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العنوان "كتيّب بلاد الرافدين. المجلد || ١٩١٧"

التاريخ/ التواريخ التواريخ

لغة الكتابة الاتينية

الحجم والشكل مجلد واحد (٢١٤ ورقة)

المؤسسة المالكة المكتبة البريطانية: أوراق خاصة وسجلات من مكتب الهند

حق النشر رخصة حكومة مفتوحة

حول هذا السجل

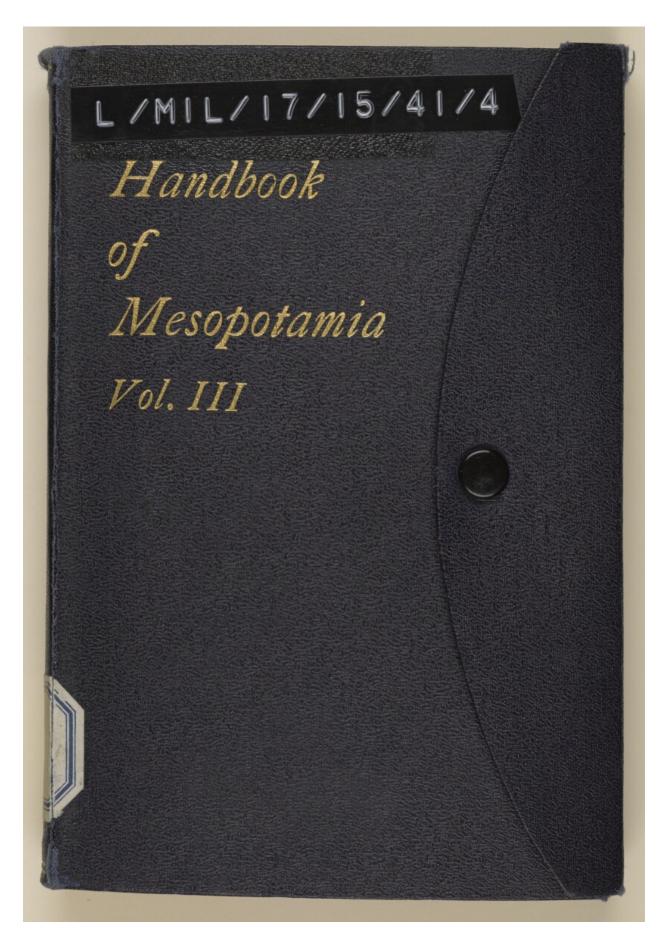
هذا المجلد هو كتيّب بلاد الرافدين، المجلد [[]، وسط بلاد الرافدين مع جنوب كردستان والصحراء السورية (أركان حرب الأميرالية، قسم الإستخبارات البحرية، يناير، ١٩١٧)، يغطي دجلة والفرات من بغداد والفلوجة إلي الموصل ومسكنة، نهر الزاب الصغير، بلاد شرق دجلة بإتجاه الحدود الفارسية، والمطرق التي تتجه غرباً من وادي الفرات عبر الصحراء السورية. المجلد معدّ نيابة عن الأميرالية والمكتب الحربي، ويبدو أنه يستند إلى منشورات رسمية وغير رسمية وخرائط وردت في القسم الببليوغرافي في المجلد. هذا المجلد أكمل بتصحيحات وإضافات في يونيو ١٩١٨ (راجع 1٩١٨).

يتضمن المجلد مذكرة بخصوص السرية، صفحة عنوان، "مذكرة"، و"اختصارات". توجد صفحة "محتويات" تتضمن الأقسام التالية:

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- طرق نهرية (دجلة والزاب الصغير، الفرات)؛
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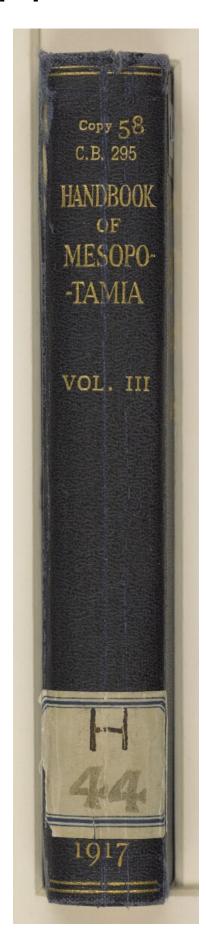


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"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [حافة] (٣٢/٤)



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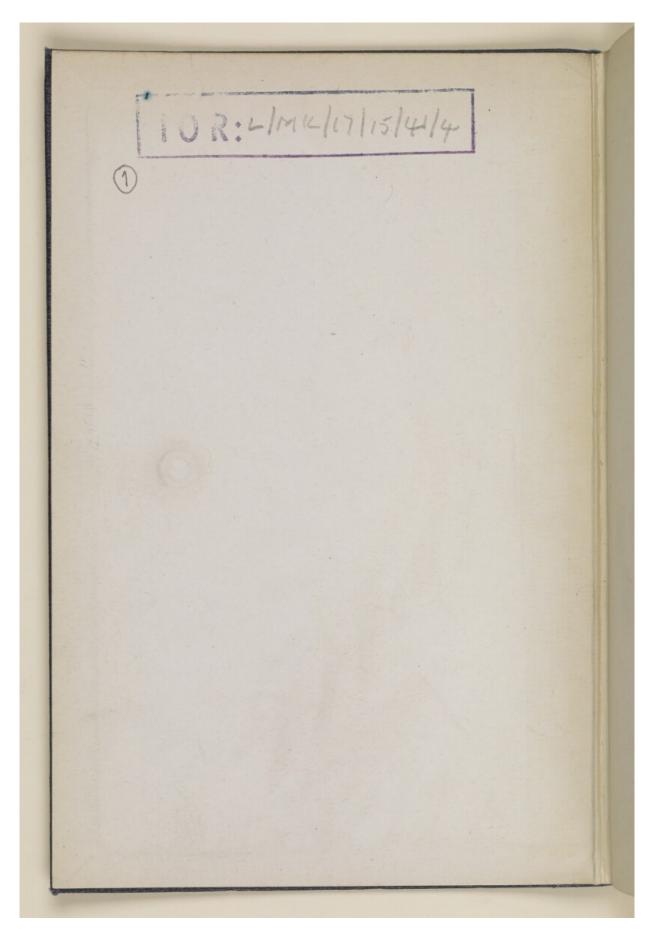


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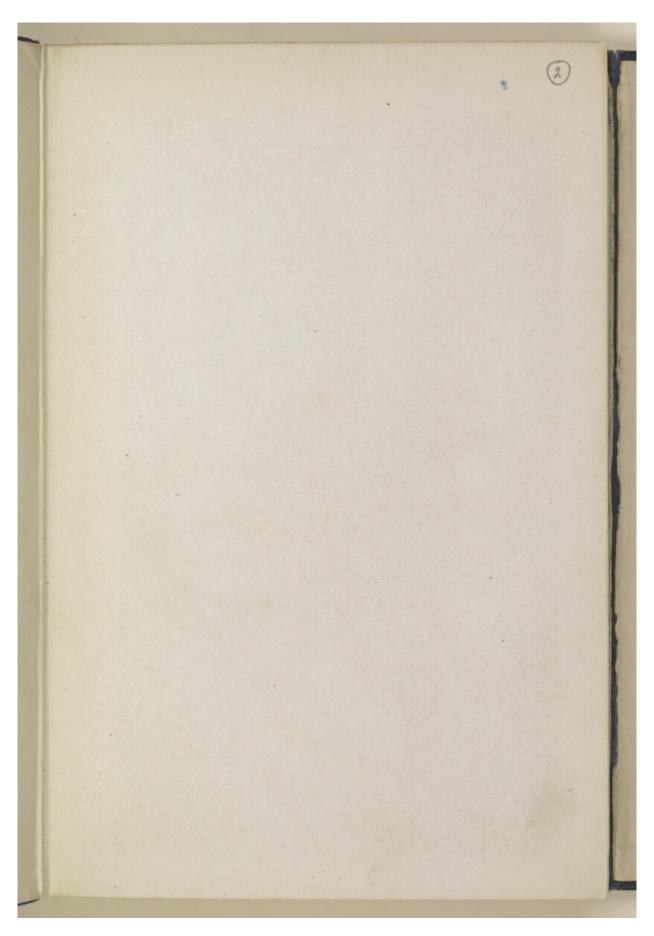


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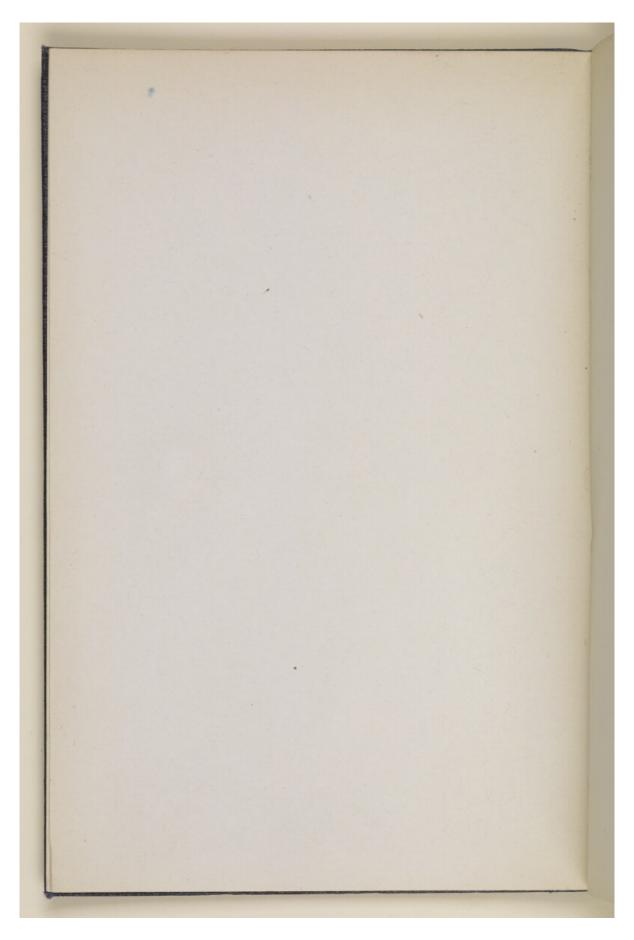


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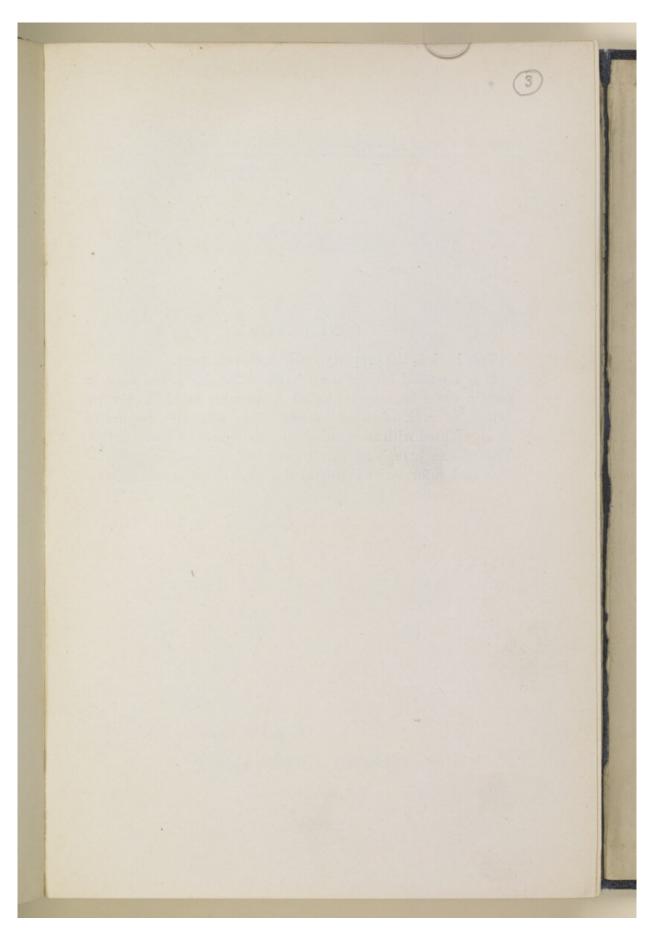


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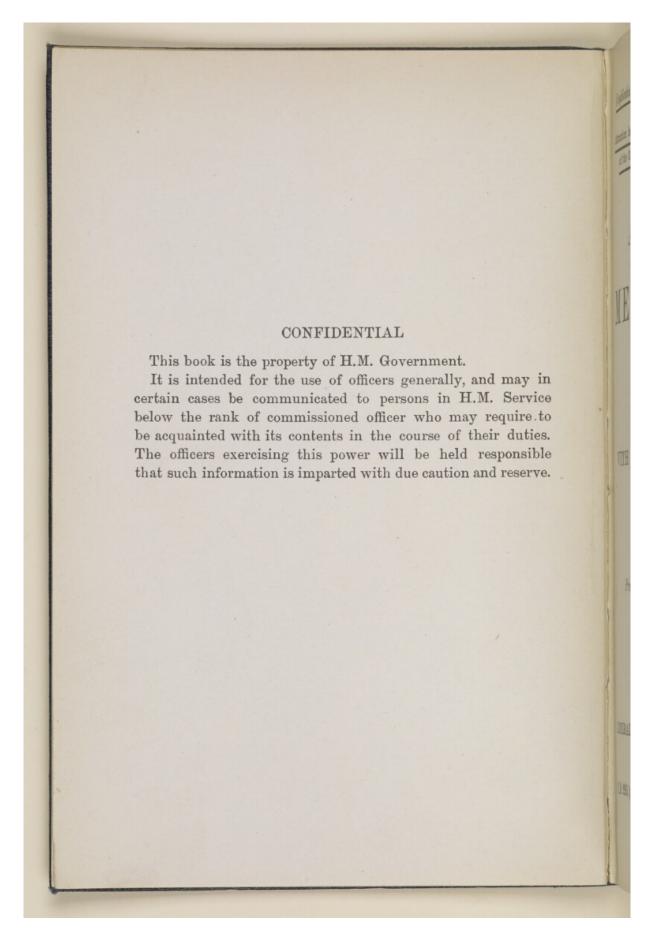


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A HANDBOOK OF MESOPOTAMIA

VOLUME III

CENTRAL MESOPOTAMIA
WITH SOUTHERN KURDISTAN AND THE
SYRIAN DESERT

Prepared on behalf of the Admiralty and the War Office

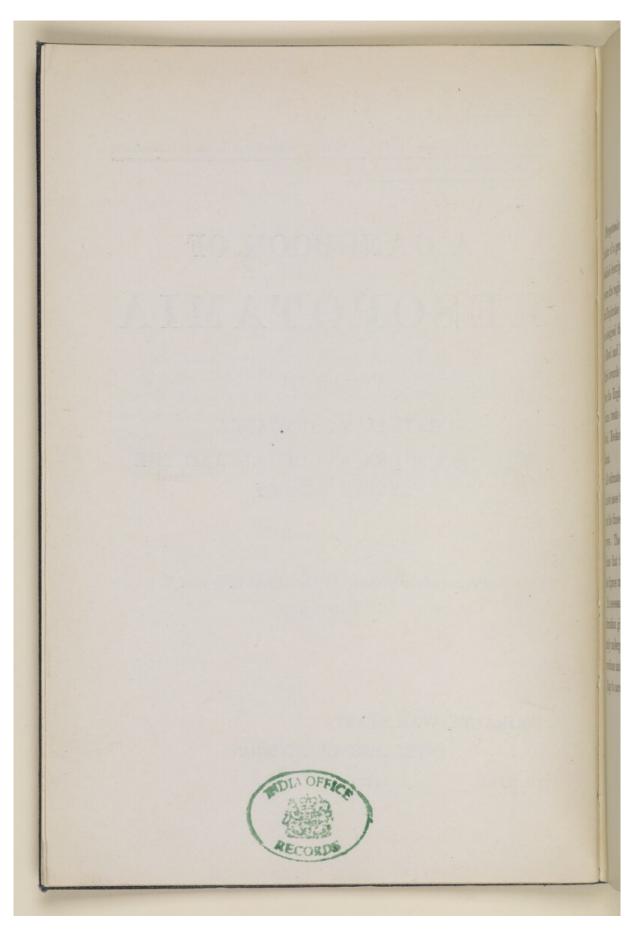
ADMIRALTY WAR STAFF
INTELLIGENCE DIVISION

(C.B. 295.)

JANUARY, 1917



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٤] (٣٢/١٣)





NOTE

Mesopotamia is treated in four volumes. The first volume contains matter of a general nature. The other volumes are devoted to the detailed description of the river and land routes. The second volume covers the regions of the Shatt el-'Arab and Kārūn, and of the Tigris and Euphrates up to Baghdad and Fellūjeh. To the third volume are assigned the Tigris and Euphrates from Baghdad and Fellūjeh to Mosul and Meskeneh, the Lesser Zāb, the country East of the Tigris towards the Persian frontier, and the routes running westward from the Euphrates valley across the Syrian Desert. The fourth volume treats of the country North of the line joining Rowanduz, Mosul, Meskeneh, and Aleppo up to Van, Bitlis, Diarbekr, and Marash.

All estimates of mileage must be considered as approximate only. In most cases they are based on the rough calculations of travellers, or on the times given by travellers, or on sketch-maps or incomplete surveys. The question-marks placed beside some of the figures indicate that these are peculiarly doubtful: it is not implied that other figures may be regarded as exact.

It is necessary to emphasize the fact that in the circumstances the information given cannot be complete, and that conditions are constantly undergoing change. The Admiralty will be glad to receive corrections and additions.

Maps to accompany these volumes will be issued separately.

"كتيّب بلاد الرافدين. المجلد !!!. ١٩١٧ [٦] (٣٢/١٥)

ABBREVIATIONS In the itineraries the following abbreviations and conventional signs may be noted :r. = right. l. = left.h.w. = high water. 1.w. = low water. $I_{\cdot} = I_{\text{sland}}$. T.L. = telegraph line. T.O. = telegraph office. P.O. = post office.m. = miles.The following signs are used to distinguish distance:—* by river; + by road or track; " crow-fly. Distances are given throughout in statute miles. Alt. = altitude, which is given in feet above sea-level unless otherwise stated.



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INTRODUCTION

THE ROUTE SYSTEM OF CENTRAL MESOPOTAMIA, WITH SOUTHERN KURDISTAN AND THE SYRIAN DESERT.

General Remarks. (a) The Plains.—The conditions of movement and transport in the country N. of Baghdad are on the whole very different from those prevailing in Lower Mesopotamia. The Tigris and the Euphrates are still important as affording main lines of advance, but as waterways they are far less useful, at least for up-stream navigation, than in Irak, owing to the more rapid current, shallower depths, and numerous rocks and small rapids which characterize their middle courses. On the other hand, the surface of the plains which extend from Syria on the W. to the hills of Kurdistan on the E. is much better suited to movement by land than that of the alluvial desert and marsh of Irak and Arabistan. There had indeed been hardly any road-making in these plains before the present war: a short stretch of the Baghdad-Aleppo caravan-route north of Deir ez-Zor seems to have been the only metalled carriage-road. But, in dry weather at least, tracks that need little or no improvement to make them passable for wheels can generally be found. In wet weather the region where the tracks suffer most is the alluvial plain N. and NE. of Baghdad. The clay that predominates in the plains E. of the Tigris and N. of Samarra also makes bad going after rain. The Southern Jezīreh between the Euphrates and the Tigris, and the Syrian Desert W. of the Euphrates, consist for the most part of hard ground which is comparatively little affected by rain: though even here soft going may be found in patches of deep sand, or along streams like the Belikh and Khabūr and the brooks that water the plain under the Sinjar Hills. valleys of the Euphrates and Tigris are strips of alluvium.

The chief obstacles in the plains are, first, the two great rivers and their large tributaries (Diyāleh, 'Adheim, the two Zābs, Khabūr, and Belikh), and, secondly, the numerous wadis. These latter appear



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to be generally passable for wheels or easily made so by a little ramping, &c. In winter and spring, however, some of them at times contain considerable torrents. Irrigation-cuts are not common except in the cultivated areas of the alluvial plain N. and NE. of Baghdad, where a good deal of bridging and ramping might be necessary here and there. South of the Sinjar the only important line of hills is the low but rugged Jebel Hamrin. Broken hilly ground is also found along the edges of the desert-plateau overlooking the Tigris and Euphrates.

The principal and very serious difficulty attending movement in the plains is the prevailing lack of water and supplies. The effect of this on the direction of main routes, &c., will be discussed below.

(b) The Kurdish Hills.—The hill-country of Kurdistan S. of Rowanduz may be divided roughly into two zones which gradually merge into each other: the zone of the foot-hills and down-country,

and the zone of the higher ranges.

In the first, movement is generally fairly easy. Open rolling downs, low ridges, and wide valleys of clay, gravel, sandstone, &c., form its principal features. Most of the tracks as far as Salāhiyeh, Suleimāniyeh, Raniyeh, and Rowanduz, where not already passable for wheels, could be improved fairly easily. The chief obstacles are the Greater and Lesser Zāb (both fordable here and there in the lowwater season), and their principal affluents, which are for the most part easily fordable except when in spate from rain or melted snow. A certain amount of work may be needed to make the banks of some of the stream-beds and wadis passable for wheels. Water in this region is generally plentiful, there is good grazing in spring, and the country, though much under-cultivated, is sufficiently tilled and populated to support a number of small towns.

Eastwards the ranges become gradually higher and more rugged; the tracks through the hills more stony, steep, and narrow. The mountains enclose small fertile plains, but these are often damp and muddy. The higher passes are blocked with snow in winter. Stretches of road passable for wheeled transport become more and more rare, until by the time the Persian frontier is reached only mule-tracks ranging in quality from fair to bad may be found. Supplies are scanty, but water and fuel are plentiful, and there is

a good deal of grazing.

The Main Routes from Baghdad into Upper Mesopotamia.—The desert character of most of the plain country has the effect of limiting to three the main lines of movement between Baghdad and Upper Mesopotamia: (a) the line of the Euphrates, towards Aleppo, &c.;



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(b) the line of the Tigris to Mosul; and (c) through the foot-hills of the Kurdish ranges via Salāhiyeh (Kufri), Kirkuk, and Altun Köprü to Mosul.

(a) The Line of the Euphrates.—The Baghdad—Aleppo caravanroute runs from Baghdad westward to the Euphrates at Fellujeh, with a Decauville railway to Ridhwaniyeh to S. of it. It then follows the r. (western) side of the river to Meskeneh, where it turns W. to Aleppo. This road is passable for vehicles in all weathers, though before the war it was unmetalled except for a few miles N. of Deir ez-Zor, and was therefore liable after rain to become soft and heavy for wheeled vehicles. A good many wadis, some of which are rather difficult, have to be crossed. There was a fair amount of wheeled traffic passing over it at all seasons, and the journey between Baghdad and Aleppo had been occasionally made by motors before 1914. Water is plentiful, chiefly from the river. Supplies are limited, though there is some cultivation along the valley. There is good grazing in the neighbourhood of the river during spring. Fuel is very scarce in some parts; in others it is supplied by tamarisk, &c. Whether transport could be obtained would depend on the attitude of the neighbouring nomads and semi-nomads. (See further, Route 46.)

On the l. bank there is no regular route, but from the reports of the few travellers who have ridden over parts of this side of the Euphrates the country appears to be generally open and easy, with the usual wadis, patches of soft sand and alluvium, &c. The Belikh and Khabūr tributaries are the chief obstacles on the E. side of the river. (See Route 47.)

As a water-way, the middle Euphrates has been much used for down-stream traffic. Above Hīt it cannot be ascended by sailing-craft owing to the rapidity of the current. It has been occasionally navigated up-stream by steamers and motor-boats; but even for these it would be very difficult if not impossible to ascend the river when it was at its highest or lowest. Blasting, &c., might improve some of the places where rocks have formed rapids. (See further, Routes IV F, G, H.)

(b) The Line of the Tigris.—The section of the Baghdad Railway between Baghdad and Mosul will follow the r. (western) side of the Tigris Valley. At present only the part of the line between Baghdad and Samarra appears to have been completed.

From Samarra to Tekrit and from Tekrit to Mosul the land route on the r. bank goes through very sparsely inhabited country where



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supplies are almost wholly lacking. Moreover, where the Tigris breaks through the Jebel Hamrin, the route has to turn aside from the river and runs some 38 m. through desert very scantily supplied with water. There is grazing on the route in spring, but fuel is very scarce. The Jebel Hamrin, which is crossed SE. of Qal'ah Sherghat, is broken and rugged, and there are stretches of broken ground elsewhere, e.g. near Tekrit. Nevertheless, before the war the route had been traversed by light wheeled vehicles occasionally, and once even by a motor. On the l. bank there was no regular route over the whole distance from Baghdad to Mosul, though caravans travelled sometimes on that side of the river between Baghdad and Samarra, between Samarra and Dur, and between the Great Zab near its mouth and Mosul. The chief disadvantage of the l. bank as a line for a through route from Baghdad to Mosul appears to be the necessity of crossing near their mouths the three large tributaries of the Tigris, the 'Adheim, and the two Zābs. The Tigris was bridged before the war at Baghdad, Samarra, and Mosul.

There was much down-stream raft-traffic on the Middle Tigris before the war, but sailing vessels did not as a rule go up-stream to Samarra. The possibilities of steamer navigation between Samarra and Mosul are very uncertain. The conditions appear to be more unfavourable than those on the Euphrates above Hit. (See Route III E.)

(c) The Salāhiyeh—Kirkuk Line.—The disadvantages of the Tigris line mentioned above, and also the former insecurity of the Tigris Valley, have brought into existence a caravan-route from Baghdad to Mosul along the foot-hills of the Kurdish mountains, where there are a few towns (Salāhiyeh, Kirkuk, Altun Köprü, Erbil, besides a number of large villages) and a certain amount of cultivation, so that sufficient supplies are generally obtainable in normal times for fair-sized parties of troops or travellers. Before the present war this road apparently needed only slight improvements here and there, and some bridging (particularly at the Great Zāb) to make it passable throughout for guns and carts. In spring, troops might be held up by floods on a number of streams which at other times would be easily fordable. Water is apparently abundant in spring and sufficient at other seasons. There is good grazing on the route in spring. (See Route 25 a.)

Lateral Communications between the main routes from Baghdad into Upper Mesopotamia may be summarized as follows:—

(a) Communications across Lower Jezīreh.—These include the routes

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between the Middle Euphrates and the Tigris valleys. In general it may be said that the difficulties of communication across the Jezīreh are due not to the ground but to lack of water and supplies. North of the Baghdad—Fellūjeh line which is traversed by the Baghdad—Aleppo caravan-route the southern part of the Lower Jezīreh is a very arid desert, hardly passable except by camel-caravans, small parties of horsemen, or motor-cars. The going seems to be firm and easy except at occasional wadis. Very little is known of the tracks across this region used by the Arabs. For a desert route from Anah to Baghdad, see Route 48. It is possible that the line of the Wādi Tartar would be found useful in traversing the Lower Jezīreh from SW. to NE. or vice versa (e.g. between Hīt and Qal'ah Sherghat or Mosul). There seems to be water (brackish?) even in the lower (southern) part of the Wādi Tartar for at least most of the year.

Nearer the Sinjar Hills conditions improve, and a number of fairly well frequented routes over open easy country connect Mosul with Deir ez-Zor. The chief obstacle is the River Khabur, which seems, however, to be fordable here and there in the low-water season. Water is less scarce than in the southern part of Lower Jezīreh. It is always to be found in abundance in the Khabūr River, and a number of small streams run down from the Sinjar Hills into the plain, but these may dry up in summer. There are also a fair number of springs in the desert. The water in some of the streams and springs is rather brackish or sulphurous, though usually drinkable. Good grazing may be found in this region in spring. Fuel is obtainable in the Sinjar Hills. The lines preferred by guides in crossing this country vary with the season, the condition of wells, &c. The route from Mosul to Deir via 'Ain el-Ghazal and Tel es-Sawwar is certainly passable for wheels, but it is reported that infantry would not be able to use the route in summer owing to scarcity of water. (See Route 49 a.) The more northerly route (49 b) lies under the Sinjar Hills, passing through Beled Sinjar and Sekenik. This appears to be passable for vehicles, though the track may become heavy after rain and would perhaps need improvement at wadis. The direct routes between Sekenik and the Khabūr at Shedādi or Tel 'Arabān (see Routes 49 c, d) appear to suffer from lack of water. A circuitous way from Sekenik to the Khabūr which crosses between the Jebel Sinjar and the Jebel Jereibeh by the Shillo Pass and then turns W. along the northern side of the hills, may be better provided with water, but the quality of the supply seems to be poor. The Shillo Pass is the main passage across the hills, and, though stony, seems to need little improvement for wheels. There are other tracks over the Sinjar range, but they are said to be difficult. The Sinjar Mountains



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are fairly well populated: the inhabitants (Yezidis) are said to have been raiding the Deir—Mosul route since the outbreak of the war. The direct lines across the desert from Tel es-Sawwār or Shedādi on the Khabūr to Deir ez-Zor seem to be poorly supplied with water, and it might therefore be preferable to make a détour to the S., descending the Khabūr to its junction with the Euphrates, and thence ascending the Euphrates Valley.

(b) Communication between the Tigris Valley and the Baghdad—Kirkuk—Mosul Route.—North of the partially cultivated area that lies between the Tigris and the Lower Diyāleh, there stretches between the Tigris and the hills an open plain of clay and gravel traversed successively by the 'Adheim, the Hamrīn Hills, the Lesser Zāb, and the Great Zāb.

As far as the Lesser Zāb this plain is apparently inhabited only by a very sparse nomadic population, who may practise a little desultory cultivation here and there on the banks of the rivers or where there are rain-water wells and springs. There is grazing in this region in spring, but in summer both water and grass are probably very scarce. The road between Salāhiyeh (Kufri) and Kirkuk might perhaps be reached by following the 'Adheim towards the point where it emerges from the hills and then striking NW. or W. across the Jebel Hamrīn: but there is no evidence as to this as a possible route. For a slight account of a route from Tekrit to Kirkuk, see Route 26.

Probably the easiest line would be along the course of the Lesser Zāb from the neighbourhood of Qal'ah Sherghat to Altun Köprü. Here water could always be obtained from the river and the country on both banks appears to be open and easy. There is a down-stream raft traffic on the Lower Zāb, but whether steamers could ascend the river to Altun Köprü even in fairly high water seems very doubtful. (See Route III F.)

North of the Lesser Zāb the population, though at first seminomadic, seems to become more numerous. Thus in 1903 Sykes saw numerous villages on the plain between Qal'ah Sherghat and Makhmūr, though these were then (temporarily?) deserted owing to drought and locusts. For the route from Qal'ah Sherghat to Altun Köprü via Makhmūr, see Route 27.

The plain S. and SW. of Erbil appears to be fairly well cultivated (grain is exported thence to Baghdad) and between the Great Zāb and Mosul there are numerous villages, Moslem, Christian, and Yezidi. Here over the open country are numerous tracks, and communication between the Tigris and the Erbil—Mosul road should be easy.

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Routes towards Persian Frontier.—North-east of Baghdad, in the neighbourhood of Khanikin and Qasr-i-Shīrīn, lies the main depression in the mountain system which divides the plateau of Iran (Persia) from the Mesopotamian plains. Through this depression runs the Baghdad—Kirmanshah caravan-route by Bāqūbeh, Qizil Ribat, Khanikin, and Qasr-i-Shīrīn. This before the war was the only route passable for wheeled transport between Mesopotamia and Persia, and even this was not easy for vehicles beyond the Persian frontier. In the plain between Baghdad and Khanikin the going was good except after rain. (See Route 28 a.) A much more difficult alternative route (28 b) to Kirmanshah runs by Beledrūz and Mandali to join the main road at Khorāsābād. This is liable to become very bad in the plains in wet weather, and is merely a mule-track in the hills. For connexions between these routes, see Routes 29 and 28 b, m. 122¼, 147¾, 156¾.

Khanikin and Qasr-i-Shīrīn on the main Baghdad—Kirmanshah road are connected by easy though unmade tracks with Salāhiyeh (Kufri) on the Baghdad—Mosul road. The only serious obstacle on this set of tracks is the Diyāleh River. (See *Routes* 32 a, b; 33.)

There is a made road passable for wheels from Qasr-i-Shīrīn to the Anglo-Persian Oil Company's wells at Chiah Surkh: and there is a fairly easy line over the Zohāb Plain between Qasr-i-Shīrīn and the Suleimāniyeh—Kirmanshah route mentioned below.

To the N. of Qasri-Shīrīn the first principal route-centre of Kurdistan is Suleimāniyeh, a considerable town lying in a fertile though under-cultivated plain some 60-70 m. E. of Kirkuk. The easiest approach to Suleimāniyeh from the W. is from Kirkuk over stony rolling hills through Chemchemal and the Baziyan Pass. Between Kirkuk and Chemchemal and between the Baziyan Pass and Suleimāniyeh there appears to be a number of possible tracks; and there seems to have been before the war at least one route from Kirkuk to Suleimāniyeh which was just passable for wheels throughout though in need of improvement. (See Route 37.) From the SW. Suleimāniyeh can be approached from Salāhiyeh (Kufri) by mule-tracks which are bad in parts. From the NW. mule-tracks over a more mountainous country under the Pīr 'Omar Gudrun Dāgh lead to Suleimāniyeh from Köi Sanjaq and Raniyeh: these cross the Lesser Zāb by ferries at Dukhan or Khānābi. (See Routes 39, 38.)

South-east from Suleimāniyeh a route leads by Halebjeh across the Persian frontier to Kirmanshah: this is fairly easy for pack-

As far as Bāqūbeh (where it crosses the Diyāleh by a bridge) it is identical with the better road from Baghdad to Delli 'Abbās on the Baghdad—Kirkuk—Mosul route. See Route 25 a.

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animals until the mountains overlooking the Ab-i-Shirwān (Upper Diyāleh) are reached. Difficult paths lead through these hills: but beyond them comparatively easy mule-roads run to Kirmanshah. (See *Route* 35.) Lastly, eastwards from Suleimāniyeh, a route which in parts is practicable for led animals only leads by Penjevin over

the frontier to Senna. (See Route 36 a.)

It has been stated that the best line for a military road or railway from the Tigris Valley into the Urmia district and NW. Persia would run by the Lesser Zāb Valley from Altun Köprü to Köi Sanjaq, thence to Raniyeh, and on by Pishder Plain to the Wazneh Pass, from there to El-Watan and the Lahjan Plain, and so to Ushnu and Urmia. In the present volume this line is described as far as Raniyeh. Before the war the road from Altun Köprü to Köi Sanjaq and Raniveh does not seem to have been passable for wheels throughout, but it appears to have been capable of being easily improved into a carriage-road. It traverses down-country and fairly low ridges, running over clay and gravel. (See Route 40.) Beyond Raniyeh the route to Urmia is described in vol. iv: it may be mentioned here that at any rate in 1905 the road was not practicable throughout for all arms, and it was reported that much labour and expense would be needed to make it passable for large forces: the passes beyond Raniyeh are blocked by snow in winter.

From Köi Sanjaq and Raniyeh roads for pack-animals lead, as has been said, to Suleimāniyeh, and mule-tracks which are difficult in parts and are mostly blocked by snow in winter connect these places with Rowanduz to the N. (See Routes 44 a-c.) From Raniyeh a route runs by Ser Desht to Banah. (See Route 41.) A difficult mule-track connects Ser Desht with Penjevin on the Suleimāniyeh—

Senna road. (See Route 36 c.)

The last road-centre in the area here in question is Rowanduz. This place lies, shut in among high steep hills, on the Rowanduz Chai, which here flows in a narrow, deep valley. The approaches to it before the present war were difficult even for pack-animals, but from Harīr (below) a cart-road has been made. In the present volume are described routes to Rowanduz from Mosul. One goes by 'Aqreh and across the Great Zāb by the Qandīl ferry, the other crosses the Zāb by the Girdamamik ferry farther south, and then turns NE to join the northern route near Harīr, not far from Qandīl. Thence hilly country is crossed to the Khalīfān gorge, by which the difficult valley of the Rowanduz Chai is reached. The southern route, if not already passable for wheels as far as Girdamamik, could probably be made so with a few improvements. (See Routes 45 a, b.)

From Erbil one route runs to join the Mosul—Rowanduz route in

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the neighbourhood of Harir, another leads over the hills to Shakhlawa and thence to the Khalifan gorge, where it too connects with the Mosul-Rowanduz route. These roads from Erbil are impassable for wheels except perhaps in the Erbil Plain.

For the routes leading from Rowanduz NW. to Amadiyeh, north to Neri, and NE. towards El-Watan and Urmia, see vol. iv.

The Syrian Desert. West of the Euphrates stretches the northern part of the Hamad, a bare stony desert which slopes gradually from Syria and Arabia NE. to the Euphrates Valley. The ground is almost flat, broken only here and there by wadis, easy undulations, or low ranges of hills. The surface is generally sand or shingle with occasional outcrops of volcanic rock. In the north, however, beyond the line Raqqah—Hama, the nature of the soil changes and becomes more capable of cultivation, and the country between Meskeneh and Aleppo is already fairly well populated and tilled.

In the desert the pools or wells, which occur at long intervals, contain water that is frequently bad and infested with leeches, &c., and generally brackish. Conditions for travel are best during a few weeks in spring. At that season there is much pasture in the hollows of the Hamād, and water-holes (known to the Bedouin) are available then which are dry later in the year. Most of the grass is shrivelled

up by the middle of April.

The direction of routes across the desert is generally determined by the position of water. The tracks are often badly defined or quite indistinguishable, as, owing to the easy nature of the ground, there is usually no need to follow a definite path. Towards Tadmor and Damascus the country becomes hillier, and directions are here determined to some extent by the trend of the valleys, but the chief

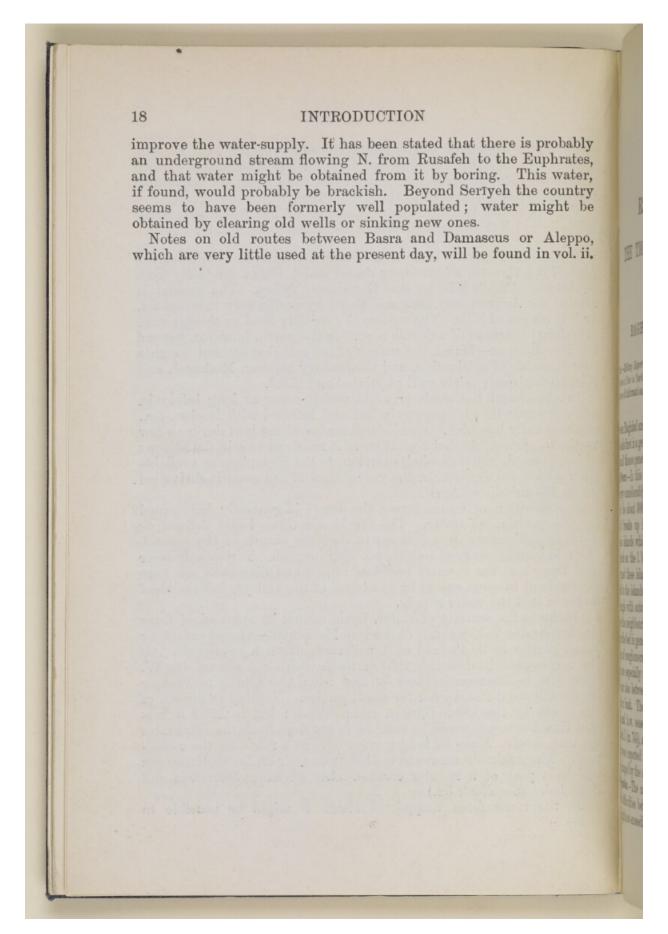
factor is still the water-supply.

Owing to the scarcity of water, Syria cannot be approached from the Euphrates Valley south of the line Meskeneh—Aleppo except by small parties or by the aid of camel-transport on a large scale. Of the routes described in this volume those which run almost due W. from Hit to Damascus (Route 52) and from Abu Kemāl to Tadmor (Route 53) are difficult even for small parties. Nothing is known of the route by the Wadi-Hauran from Jibbeh; but in 1907 it was said that Damascus could be reached in six days from the Euphrates by this route. Route 52 is important only as a route for the camelpost. The main desert-route is that from Deir ez-Zor to Damascus which is part of a regular caravan-route between Damascus and Baghdad. (See Route 54.)

On the route from Raqqah to Hama it might be possible to MES. III



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robably phrates. Water. ight be RIVER ROUTES Aleppo, n vol. ii. THE TIGRIS AND LESSER ZAB ROUTE III D BAGHDAD—SAMARRA (89¹/₄ M.) Authorities: -Military Report on E.T.A., vol. iii, 1904 (report of 1892); Lorimer, Report on a Tour in Turkish Arabia and Kurdistan, April-May 1910; and other sources of information. Between Baghdad and Samarra (*89½ m., +74 m.) the course of the Tigris leads first in a general N. direction (as far as Ahmad el-Fayyadh m. 56) and thence generally WNW. The River.—In this section of its course the width of the river varies very considerably. Where it flows in one channel its breadth seems to be about 300-500 yds. It is broadest from bank to bank where it breaks up into several channels passing between the numerous islands which occur in successive groups above the tract of Ba'rūreh on the l. bank (see m. $68\frac{3}{4}$ and foll.). The rate of the current past these islands is said to be about $4\frac{1}{2}-3\frac{3}{4}$ m.p.h. From Baghdad to the islands the bed of the Tigris is mud; at the islands it is shingle with outcrops of conglomerate at El-Qanātīr (m. 771/4); between the neighbourhood of El-Hāwiyeh on the l. bank (m. 78) and Samarra the bed is generally of shingle, sand, or clay, with occasional outcrops of conglomerate forming small rapids in the current. While islands are especially numerous between Ba'rūreh and El-Hāwiyeh, they occur also between El-Hāwiyeh and Samarra at various points near the r. bank. They undergo frequent alteration by the floods in the annual h.w. season. At Baheirdeh I. and Ba'rūreh (m. 69), Darāwīsh I. (m. $74\frac{1}{2}$), and at Tīneh (m. $85\frac{1}{4}$), fords passable in the l.w. season were reported in 1910, but their situation is probably liable to be changed by the annual floods. Navigation. - The navigation of the river seems to present no special difficulties between Baghdad and Ba'rūreh (m. 69) for boats of draught not exceeding 4 ft. From Barureh to the neighbourhood of

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El-Hāwiyeh it is troublesome owing to the islands above mentioned. The rapids, already referred to, between El-Qanātīr and Samarra are apparently not considerable enough to hinder vessels of small draught even in the l.w. season. A small steam-launch, owned by a Baghdad merchant named Astrabadi, has been plying on the river between Baghdad and Samarra since 1902 with fair regularity throughout the year. 1½ days were allowed for the up-stream, and 1 day for the down-stream voyage. Sailing boats (safinehs), carrying 8 tons, can ascend to Samarra during the greater part of the year, but it is reported that at the height of the flood season they would find it difficult or impossible to make head against the current in the channel past the islands (between m. 67 and m. 80). on the river is principally down-stream, being mainly carried on by the rafts (keleks, see vol. i, p. 166) which come from Tekrit and Mosul. The strong winds from the S. and SW. which are fairly frequent in the Baghdad region, especially in spring, may make the raft journey between the mouth of the 'Adheim River and Baghdad very slow (4 days or perhaps more): in the highest spring floods without an adverse wind the journey may take only 13-14 hrs. In fair weather the rafts travel all night. Quffehs (large coracles, see vol. i, p. 166) are used locally for short journeys. For regular ferries see under m. $43\frac{3}{4}$ and m. $78\frac{3}{4}$.

The country between Baghdad and the line Beled—Sindiyeh.—From Baghdad to the neighbourhood of Beled and the islands of Darāwīsh (m. $74\frac{1}{2}$) and Barqeh (m. 76) the Tigris flows through the most northerly part of its alluvial plain. Here the banks are of firm alluvial soil, are generally fairly high, and at places (e.g. m. 32) are protected by dykes. Nevertheless in the neighbourhood of Baghdad the flood water in spring inundates the country on either side, finding its

way chiefly by the numerous irrigation-cuts.

On the r. bank date-groves are almost continuous to Ferhād (m. 11), above which they occur only at three or four places on the river (a few miles inland they are to be found at Sumeikeh and Beled). N. of Beled there are no more date-groves, only isolated palm-trees. Date-groves are frequent on the l. bank as far as the neighbourhood of Nahr el-Pasha (m. 17) and thence they occur at intervals up to Sindiyeh (m. $45\frac{1}{2}$). On both sides of the river up to the neighbourhood of Darāwīsh I, there are numerous water-lifts (cherrads) which irrigate areas of wheat and green barley (the latter crop being used for fodder).

Between Baghdad and Beled the country W. of the immediate neighbourhood of the r. bank is a plain of alluvial soil stretching to the edge of the desert plateau. From the river to the plateau the HOLE

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THE TIGRIS-ROUTE III D

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distance varies from about 15 to about 20 m., with one noticeable ridge near the river between Husāi tract (m. 49) and Qubbat Shawāli (m. 60). This plain contains at its S. end the large lake-area known as 'Agarque, extending from a point about 5 m. W. of Kazimain in a NNW. direction for about 11 m. with an average width of about $4\frac{1}{2}$ m. The plain is much cut up by canals, generally dry, or, as in the case of the upper reaches of the Dujeil, carrying some water in the flood season. These canals are specially numerous N. of the Tarmīyeh (m. $38\frac{1}{4}$): here are the numerous branches of the Dujeil, and an old bed of the Tigris running in a general NW. and SE. direction. The ground is covered with large and small ruin-mounds marking the site of ancient settlements. Cultivation occurs in patches where canals still carry water for part of the year. In wet weather the going is very heavy, but in the dry season the plain is said to be passable almost everywhere for wheeled traffic, though the canal-beds would at times compel vehicles to make détours. Across the plain runs the route from Baghdad to Samarra and Mosul, traversed by the Samarra—Baghdad pilgrim wagons, and accompanied by the line of the Baghdad-Samarra railway. For further details with regard to the country see notes on the above-mentioned route (25 b).

From the l. bank of the river, as far as the neighbourhood of Sindiyeh (above which the up-stream course begins to take a general NW. direction towards the 'Adheim), a flat alluvial plain stretches towards the Diyāleh river (distant 11-16 m.). In the neighbourhood of Baghdad the plain is liable to inundation during the spring floods. For the swamps of Reshidiyeh and Jedeideh see under m. 1934. This country between the Tigris and the Diyaleh is still more intersected by canals than the plain on the opposite bank, and a far greater proportion of the cuts on this side carry water, for most of them belong to the system of the Nahr Khālis, which brings the water of the Diyaleh from the neighbourhood of Mansuriyeh (see m. 381). The Khālis, near Deltāweh, divides into two principal branches, a westerly, the Murādīyeh, and an easterly, the Tahwīleh, which flow in a general southerly direction to the neighbourhood of Baghdad. But the Khalis and its two great arms also throw off a multitude of smaller irrigation-cuts which are interlaced by crosscuttings. The whole system waters large areas of wheat and barley and supports a large number of villages between the Tigris and the Across the plain run the Baghdad-Salāhiyeh-Mosul route, throwing off a branch to Samarra near Deltaweh, and the Baghdad—Bāqūbeh route. For further details with regard to the country see notes on these routes (25 a, 31).

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The country between the line Beled-Sindiyeh and Samarra.-From the neighbourhood of Beled up to Samarra the Tigris cuts a trench through undulating plains of clay, shingle, and sand with scattered outcrops of limestone. These plains stretch away from the l. bank to the Hamrin Hills some 40 m. to the NE., and extend from the r. bank to the edge of the desert plateau. On the r. bank the most noticeable feature is the complicated network of canals (mostly dry or almost dry) which stretch W. and NW. of Beled to the mouth of the Dujeil, above which an old canal-bed (Nahr Shaqi?) runs parallel with the river (see m. $81\frac{1}{4}$). On the l. bank are the beds of the large ancient canals of the Nahrawan system (Nahr er-Rasasi, Nahr el-Qa'im, and Nahr Talsiyeh) with the remains of numerous cross-cuttings: and in the neighbourhood of Samarra (see m. 831) appear the numerous ruins which for the most part date from the ninth century A.D., during which that city was the capital of the Caliphate. The banks are sparsely inhabited, but there are patches of cultivation near them mostly dependent on rain, and in the plain between Samarra and the 'Adheim winter crops are raised by the Arabs with the aid of ancient wells. Sheep and cattle are fairly numerous.

Inhabitants.—The inhabitants of both banks are settled Arabs of various tribes, though some of their communities still live in tents for the whole of the year or during the summer. Near Baghdad the land is held by various wealthy landowners: on the Dujeil and round Samarra it is mostly Turkish Government property. On the

Right Bank	Total distance
Baghdad.	Miles 0
Date plantations.	2
Kazimain (see under Baghdad in Gazetteer of Towns, vol. ii).	$4\frac{1}{2}$
	51
River bends NNE. Baghdad—Samarra road touches bank, and W. of it is the line of the railway. Beyond railway begins course of ancient canal, which runs parallel to railway for some miles to neighbourhood of Beit Nawāb, then NW. (So I. D. Map, Sheet C2.)	$\frac{5\frac{1}{4}}{7\frac{1}{4}}$
	$\frac{8\frac{1}{4}}{9}$
Hibneh village.	$9\frac{1}{2}$



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14 THE TIGRIS-ROUTE III D r. bank as far as the neighbourhood of Bābi tract the villages are a.-From s a trend inhabited by Hashāhideh: N. of Bābi are found communities of various tribes, as Beni Tamīm, the Al Bū Hayyāzeh, and 'Azzeh, scattered 1. bankti sections of the 'Obeid, Abu Handhal, and Mujammeh (the last tribal he r. bank name implies a miscellaneous origin). The desert W. of the southern noticeable part of this route is usually occupied by Dilaim; but the Shammar or alms are the predominant tribe in the interior in this region. The th of h Shammar were apparently in recent years somewhat more under the control of the Turkish administration than that part of the tribe ns paralle eds of the living farther to the N. which acknowledged the sons of Faris. Their sheikhs (the family of Ferhan Pasha) had been reduced to er-Rasis the position of protégés of the Turkish Government, and the fact that so much of the land in the Dujeil district and in the neighbouree m. 8% hood of Samarra is Government property seems to have given from the ital of the protection to the settled Arabs against the levying of tribute or blackmail (khubbeh) by the Shammār. are patche On the l. bank the inhabitants are chiefly Jebur, with some n the plai Juheish, Beni Tamīm, Mujammeh, and fragments of other tribes. sed by the When the Kurds were giving trouble their raids sometimes peneare fairly trated as far south as this region. It may be noticed that while the Arabs of the r. bank are mainly Sunnis, most of the inhabitants of the l. bank from Baghdad at least we in test to Sindiyeh and Jeizāni (see m. $46\frac{3}{4}$) are Shiah. Almost all the aghdad to Mohammedans of Samarra are Shiah. Dujeil an v. Onto Intermediate distance Left Bank Miles 胎 0 2 Date plantations. $2\frac{1}{2}$ Mo'adhdham. Immediately above is Imām Abu Hanīfah. See description of Baghdad, vol. ii. $2^{\frac{3}{4}}$ Es-Saleikh. Childayeh village. 1 Chaldāri village. Ferājāt village.



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Right Bank	Total
	Miles
Ferhād village.	10
Date plantations cease on r. bank.	11- 12
	13
Road runs close to bank about here. Beit Nawāb on road: about \(\frac{1}{4} \) m. from bank.	13½ 15½ 16
	17
	$17\frac{1}{2}$
- Haseiweh hamlet, six houses of Meshāhidiyeh. 'Aweijeh tract begins.	1734
'Aweijeh village: 30 houses of Meshāhidiyeh.	$18\frac{3}{4}$ $19\frac{3}{4}$
Meshāhidiyeh tract.	211/4
Shrine of Imām 'Ali, about 2 m. from river, near a mound called Tel Gosh.	221/4
Bābi tract begins. 3 m. W. of bank lies Khān Meshāhidiyeh, on the Baghdad—Samarra road (see Route 25 b, m. 23). Railway station.	$23 \\ 23\frac{1}{4}$



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	THE TIGRIS—ROUTE III D 25	
Inter- mediat distance		
Miles		
1	Abu 'Ali village. Haji Ahmad village. Baghdad—Salāhiyeh road touches bank in this neighbourhood.	
	El-Mīmār village.	
. 1	Kādhim Pasha village: this is inhabited by mixed population from Jebūr and Juheish.	
2		1
4	Abu Dāli village: about 20 earthen huts, with palm-	
1	Mouth of Nahr el-Pasha Canal (dry even in May 1910), which runs S. at the back of the date plantations as far as Childāyeh. It is about 5 yds. wide, and its bed is sunk several feet. It is spanned near its head by a brick bridge. About ½ m. from its mouth it is joined by a canal which runs parallel with the river above this point as far as Yehūdiyeh. Continuous date plantations cease on l. bank. Small	
	village (Qasr el-Pasha) at the head of the canal. Small village. This and the village mentioned immediately above are Waqf (i.e. held in trust for spiritual or secular purposes). The inhabitants are Dilaim.	
1 1	Walled enclosure. Dāūdiyeh village (15 houses of Shiah Arabs) is apparently in this neighbourhood. NE. of this village lies the S. end of the Khōr Reshīdiyeh, a swampy area about 3½ m. long and 1½ m. broad. Road and T.L. run E. of this swamp, between it and another marsh called Khōr Jedeideh.	
1		
1		
and a second	Reshīd Pasha or Reshīdiyeh village. A two-storied house, and a few cultivators' huts.	



"كتيّب بلاد الرافدين. المجلد ا||. ١٩١٧ " [٢٦] (٣٠/٣٥)

Right Bank	Total
River bends SE. Mallūh tract begins a short way above Yehūdiyeh. Village? Mallūh tract ends in this neighbourhood. General Note on the Old Bed of the Tigris. Between the river and Khan Meshāhidiyeh depressions W. of the l. bank may be the lower end of an old bed of the river. N. of Khōr Tarmīyeh this bed is better defined, and extends past 'Akbareh and Sumeikeh (Route 25 b, m. 35, 39). From near Sumeikeh one dry bed, fairly deep but narrow, can be traced N. to Banīyeh (m. 67½, below);	$\begin{array}{c} \text{Miles} \\ 24\frac{1}{4} \\ 24\frac{1}{2} \\ 25\frac{1}{4} \\ 26\frac{1}{2} \\ 27\frac{1}{2} \end{array}$
another, broader, runs NNW. to m. 764, below: its W. bank is higher than the E. Suweidīyeh tract begins.	$\frac{28\frac{1}{2}}{31}$
Has-Hūs tract begins. Numerous water-lifts on the bank in this tract.	$31\frac{1}{2}$ 32
Numerous water-lifts. Tarmīyeh tract. River becomes unusually broad. In May 1910 its width was about 600 yds. Tarmīyeh Canal, running W. and SW. to the Khōr Tarmīyeh, 5 m. SSW. It is above the level of the river. Even in flood-time water very seldom passes into it. Width of the river here is 400-500 yds. End of highly silted-up dry canal is seen on river bank. This landmark is called Īshān Tarmīyeh. Shrine of Sheikh Jemīl.	$34\frac{1}{4}$ $35\frac{3}{4}$ $38\frac{1}{4}$ $39\frac{1}{4}$ $40\frac{1}{2}$ $41\frac{1}{2}$
	4



"كتيّب بلاد الرافدين. المجلد ا||. ١٩١٧ " [٢٧] (٣٦/٣٦)

			THE TIGRIS—ROUTE III D 27	
d	Total Istano	Inter- mediate distance	Left Bank	
	Mar 244 244 255 265 265 265 265 265 265 265 265 265	Miles 1 1 3 4 1 1 1 1 1	Yehūdiyeh tract begins in this neighbourhood: date-groves. Yehūdiyeh tract ends about here. Jedeideh posting-station on Baghdad—Salāhiyeh road. 200 houses (of Shiah Arabs) in date-groves, enclosed by mud walls. Two khans. The first khan about 80 yds. square, with stabling for 200 horses; well in centre, water 20 ft. below surface. The other khan near river, 60 yds. square;	
1	95	1	stabling for 100 horses. Southern end of a branch of the Nahr Khālis. See Introduction to this section.	
e	Green Constitution of the	$\frac{2\frac{1}{2}}{2}$	Dokheileh village, on the Baghdad—Salāhiyeh road, some distance back from the river. The ground E. of the road is here very marshy. El-Howeish village (300 houses of Shiah Arabs).	
n		$\begin{array}{c} \frac{1}{2} \\ 2\frac{1}{4} \\ 1\frac{1}{2} \end{array}$	Qasīrīn (100 houses of Shiah Arabs): date-groves. Road skirts river where the latter bends NW. and then leaves it, running N. The bank is protected by dykes 15 ft. wide at the top, 20 high, 40 ft. at base, revetted with breastwork. Raqqah district (no village). Mansūriyeh tract begins.	
	89	$2\frac{1}{2}$	Shrine of Imām Beni el-'Abbās. Mansūriyeh village: 260 to 300 mud houses, hidden from the river by date-groves: ferry. Branch of Nahr Khālis running N. and then NW.	
	100	1	Tuming It. and their It it.	
	机机	11/4	Haji 'Omar irrigation pump. Shrine of Imām Banāt el-Hasan below Sa'diyeh. Branch of Nahr Khālis, running N. and then NW. Sa'diyeh village (100 houses of Shiah Arabs): date-groves extending 2 m. (The Khanikin branch of the Baghdad Railway was intended to cross the river in this neighbourhood). Above this point the country is much intersected by offshoots of the Nahr Khālis.	



"كتيّب بلاد الرافدين. المجلد !!!. ١٩١٧ " [٢٨] (٣٢/٣٧)

28 RIVER ROUTES	
Right Bank	Total distance
Above Sa'diyeh is Tuweir reach.	Miles
Grove of Euphrates poplar (gharab). This is a halting- place for caravans from Baghdad that follow tracks along river bank.	$43\frac{3}{4}$ $45\frac{1}{2}$
And in Lawrence of the Land Court of the Land Co	463
River was here about ½ m. wide in May 1910. Above this point river banks on both sides become quite low for	
some distance. Husāi tract: water-lifts. Beni Tamīm settlements. Rising ground begins, running NW. about 1½ m. from river for about 8 m. Along its SW. side runs the old bed of the 'Uqāb Canal	49
and several tels lie SW. of the canal. Round them stretches a large ruin-field, believed to mark the site of the ancient city of Opis, in the fourth and fifth centuries B. c. accounted second only to Babylon among the cities of Mesopo-	
tamia. It is possible that the present bed of the Tigris cuts across the site of Opis, and that the ruins on Tel Mahāsil on the l. bank (see m. $60\frac{1}{2}$) are also part of the same city.	
Zambūr: camping-place of the Beni Tamīm.	52
Khadheireh tract.	54
Ahmad el-Fayyadh tract, 25-30 water-lifts. Above this tract is that of Sufeil.	56



"كتيّب بلاد الرافدين. المجلد ا||. ١٩١٧ " [٢٩] (٣٨/٣٨)

erry of one quffeh in this neighbourhood. Indiyeh village: 100 houses of mixed Shiah Arabs e lands here belong to the Makkeh shrines, and in the were held on lease by Anwar Bey, of the Haida leh family of Baghdad. This place is included in the irate of Deltāweh, a large village with date-grove to 4 m. from river bank (a little E. of SE. from Sindiyeh). Deltāweh the Salāhiyeh road diverges to NE., while a to Samarra follows the line of the l. bank of the is. Ate-groves extend for some distance above Sindiyeh ge. At the grow for some distance above Sindiyeh ge. At the grow for some distance above Sindiyeh ge. At the grow for some distance above Sindiyeh ge. At the grow for some distance above Sindiyeh ge. At the grow for some distance above Sindiyeh ge. At the grow for some distance above Sindiyeh ge. At the grow for some distance above Sindiyeh ge. At the grow for some distance above Sindiyeh ge. At the grow for some distance above Sindiyeh ge. At the grow for some distance above Sindiyeh ge. At the grow for some distance above Sindiyeh ge. At the grow for some distance above Sindiyeh ge. At the grow for some distance		THE TIGRIS—ROUTE III D 29
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burse of Nahrawān Canal touches river bank. On arra road, ½ m. from river, Khān es-Safīneh (Govern	2	Dojmeh tract, large settlement of the Jebur and Al Bu
arra road, ½ m. from river, Khān es-Safīneh (Govern-	2	Course of Nahrawan Canal touches river bank. On
gram-store); road turns vv N vv.		Samarra road, ½ m. from river, Khān es-Safīneh (Govern-
		ment gram-store,; road turns vv iv vv.



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Upper end of Sufeil tract: camping gr Hayyāzeh ('Obeid) Arabs.	Total distance Miles
Hayyāzeh ('Obeid) Arabs.	7 0 7 7
Lower end of 'Aqab tract.	ly against 12 *
	59½
	Corri .mis zasti
	parona di la
	pick in the same
Qubbat Shawāli. About this neighbourh	nood is the lower 60
end of the shingly zone of the Tigris bed.	601
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"كتيّب بلاد الرافدين. المجلد ا||. ١٩١٧ " [٣٦] (٢٠٢/٤٠)



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32 RIVER ROUTES	
Right Bank	Total distance
	Miles
'Ausajeh district.	$62\frac{1}{4}$
Camp of 'Azzeh Arabs (May 1910). El-Habbāb: walled camp of 'Azzeh or 'Obeid Arabs.	641
A tract occupied by Abu Handhal Arabs. Es-Sefīneh: square enclosure where the Turkish authori-	65 $66\frac{1}{4}$
ties receive and store agricultural rents paid in kind. Banīyeh village? S. of this point begin traces of ancient canal running SW. and SSE. for $4\frac{1}{2}$ m.	671/4
Upper entrance of old Tigris bed? Other authorities place it opposite Khān Mizraqji (see m. $76\frac{3}{4}$). About $2\frac{1}{2}$ m. W. by S. of bend lies the mosque of Seyyid Mohammed, with	
large khan close to it, and 4-5 m. W. of bend is Beled village with date gardens, a flourishing place, the property of the $D\bar{a}$ 'irat es·Sanīyeh. Its palm-groves are the most northerly that occur in the region of the Tigris. There is a railway station of Beled. The village is apparently visible	
from the river at a point somewhat higher up. In this neighbourhood Harbeh Canal takes off from the r. bank and runs SE. past Beled; it is crossed by a bridge carrying the Baghdad—Samarra road, about 6 m. from river.	683/4
River above this point apparently broadens out and breaks into several channels enclosing and passing between numerous islands, which are liable to considerable alterations due to annual floods.	
Baheirdeh I., near r. bank. There is a ford in this neighbourhood in l.w. leading across Baheirdeh Island (at its lower end?) to the Ba'rūreh tract on l. bank. Pebbly bottom.	69



"كتيّب بلاد الرافدين. المجلد ا||. ١٩١٧ " [٣٣] (٢٤٢٣٤)

		THE TIGRIS—ROUTE III D 38	
-	Inter-		
加	mediate distance	Left Bank	
H	Miles	course of which can still be traced, running to the hills, gradually nearing the Shatt el-'Adheim, which it meets at the dam, and along it are ruins of the settlements which it brought into existence. The other arm (Nahr Radhān?) ran to the E. of the present course of the 'Adheim, but does not seem to have been traced from the dam for more than 10 m.	
		General Note on the Nahrawān Canal.	
	1 ³ / ₄ 2 3 ⁴ / ₄ 1 ¹ / ₄	The lower part of the dry Nahrawān Canal is traceable on the l. bank of the Tigris below Kut el-Amara and Azīziyeh. For its course thence to the Diyāleh see vol. ii. It reaches the l. bank of that river near Sifweh (Route 31, m. $23\frac{1}{2}$) and follows it to Bāqūbeh (23 m.), crossing to r. bank below Bahrīz. Above Bāqūbeh it turns NW. to the Tigris (15 m.), its bed being broken by branches of the Khālis Canal. Striking the l. bank a little above Sindiyeh (m. 49, above) it follows it more or less closely as far as the 'Adheim and Khān Dhulū'iyeh as described in the preceding paragraphs. Its bed thus far is 100-140 yds. wide, and at the 'Adheim it is 20 ft. below the surface-level. Above the Khan the main canal, diverging from the river as described above (p. 31), is almost obliterated. Deep cuts interrupt its bed, which is on the level of the plain. About 10 m. below Samarra it begins to be better marked, through marl, though the banks are low and not abrupt. E. of Samarra soil becomes pebbly; banks about 30 yds. thick; canal approaches river. About 8 m. above Samarra compact conglomerate is reached, through which canal is cut with steep banks; galleries sloping up them from the bed to the surface for the removal of excavated material may be traced. The bed is below the general level, and banks 15 ft. above it and 15 yds. thick. Below Dūr traces of a head of the canal are seen (Route III E, m. 17½), but an upper branch (Nahr en-Neifeh) is traceable nearly to the Hamrīn Hills (Route III E, m. 56).	
	11/2	222, 24, 25,	
(N)			
	1		
9	1/4	Ford across channels on both sides of island.	
	MES. III	C	



"كتيّب بلاد الرافدين. المجلد !!!. ١٩١٧ [٢٣] (٣٢/٢٣)

34 RIVER ROUTES	
Right Bank	Total
	Miles
Ba'rūreh reach above island. Tuthah I.	73
Darāwīsh I. Cultivated by Sawākineh. Small island on S. side.	$74\frac{1}{2}$
Beled village lies some miles S. of this point. Upper end of Darāwīsh I. Several water-lifts. Cultivators	$75\frac{1}{2}$
are Sawākineh. Barqeh I. (possibly not surrounded by water except in	76
the h.w. season).	
Breadth of the river 300-250 yds. Upper end of old bed of Tigris?	$76\frac{3}{4}$
Tel Tabbārat.	774
Upper end of Barqeh I. Camp of Mujammeh Arabs. Sidd Nimrūd, remains of an ancient rampart or dyke, with trench, running SSW. from the river bank, which has been identified with one end of the Median Wall, a fortification which in the fourth century B.C. stretched from the Euphrates to the Tigris in this neighbourhood. Possibly, however, the Sidd Nimrūd was merely an irrigation dam.	77½ 78
About \(\frac{3}{4} \) m. above Sidd Nimrūd and El-Hāwiyeh is a ferry by which communication is possible between the Baghdad—Samarra routes on the r. and l. bank respectively. The normal service here is reported as being one of three boats, each capable of carrying 50-60 persons. A hut and two or three sheds on the r. bank. At the ferry the Baghdad—Samarra T.L. crosses the river. It apparently leaves the line of the Baghdad—Samarra route and railway near Tel Husein (about 4 m. SSE. of the ferry) and traverses the Dujeil Canal (see m. 81\frac{1}{4}) and several of its branches, running NNW. to river, after crossing which it turns NW. to Samarra. 3 m. S. of the ferry, and for some distance from this point on the way to Samarra, the Baghdad—Samarra road and railway pass over a network of canals, mostly dry.	7834



"كتيّب بلاد الرافدين. المجلد ا||. ١٩١٧ " [٣٥] (١٤٢/٤٤)

	THE TIGRIS—ROUTE III D 35
Intermediate distance Miles	Left Bank
4 1½	
1	Camp of Abu Darrāj Arabs.
1/2	
34	Khān Mizraqji (apparently on the Samarra road N. of the Nahr el-Qā'im). Khān Sāwiyeh was mentioned in 1892 as being in this neighbourhood, but latest information suggests that it no longer exists, the name, it is said, being now given to the locality in which Khān Mizraqji stands.
1/2	El-Qanātīr, a locality so called from remains of ancient dam and sluices.
1/4 1/2	El-Hāwiyeh, village of 25 houses of Sawāmireh and Abu Darrāj.
34	From the banks of the Nahr el-Qā'im (see m. $60\frac{1}{2}$), which continues to run close to the river, the spiral minaret (Malwiyeh) at Samarra is visible.
100	Tollies test the good rejoin the mountains in lead
	c 2



"كتيّب بلاد الرافدين. المجلد !!!. ١٩١٧ " [٣٦] (٥٤/٣٢)

36 RIVER ROUTES	
Right Bank	Total
	Miles 79
About this point the banks are low. Rapids causing some difficulty to navigation in l.w. season are reported to be in	793/4
Qubbān: Arab camp; no permanent village. Mouth of Dujeil Canal. This was described in 1892 as a cutting 8-10 ft. wide at the bottom, with sides sloping 1 in 1, and is sunk some 12 ft. below the plain at its upper end. It has great mounds of excavated silt beside it (1910). It carries water in its upper reaches except when the river is low. The canal runs in a general SSE, and SE, direction to Sumeikeh, about "22 m. along the Baghdad—Samarra route. Beyond Sumeikeh it turns S., and loses itself about "7 m. to the W. of Tarmiyeh. Many smaller channels are taken off from it. At and above the head of Dujeil Canal the banks are higher.	81 81 <u>1</u> 4
Line of Baghdad—Samarra railway apparently approaches the river above mouth of Dujeil Canal, and runs near it to Samarra. It is apparently possible either to follow a track between railway and river bank, or to pass W. of a dry canal (Nahr Shaqi?) running parallel with the river.	
Istablāt, a large ruin-field, situated on high ground, and surrounded by remains of city wall. Police post (in good repair, but unoccupied in 1910).	8214
Railway station.	831/4



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ " [٣٧] (٢٤٢/٤)

	THE TIGRIS—ROUTE III D 37
Inter- mediate	Left Bank
distance	Dert Dank
$\frac{1}{4}$	Route to Samarra from the ferry and T.L. are marked on map as crossing Nahr el-Qā'im and running direct (NW.) to Samarra, at a distance from the river varying from 1 m. to $2\frac{1}{2}$ m.
34	Head of ancient canal, much silted up, with high earthen embankments. Called by authority 1910, Nahr Talsiyeh.
1 1 4 1 4	
	Qādisiyeh: ruins of ancient city (reported to be known also as Et-Talsiyeh). These ruins begin above bend of river to NW., and extend for some distance along bank. The ruins (which date from the Abbasid period) are a crumbling wall of sun-dried brick, enclosing an octagonal area (the sides varying in length between 565 and 725 paces). Three gates in each of six sides, four in the seventh, and two in the eighth (the northern wall, which has 10 small vaulted chambers on its interior face). Inside the wall, and about 13 paces from it, a shallow ditch, 12½ ft. wide, runs round at least the greater part of the enclosure, with a low mound on its inner side, occupying a space about 22 ft. wide.
	Ruins called Sanāh.
	El-Qā'im, a ruined tower of pebbles and concrete. There is no chamber inside, and no means of climbing up it. Possibly of Sassanid origin (third-seventh century A.D.).

"كتيّب بلاد الرافدين. المجلد !!!. ١٩١٧ [٨٨] (٣٢/٤٧)

38	RIVER ROUTES]	
	Right Bank	Total distan
		Mile
	Tīneh village: 10 houses of Āl Bū Nisan. Ford in low- ater season.	8514
		894
	ROUTE III E	
	SAMARRA—MOSUL (185 m.)	
	uthorities:—Military Report on E. T. A., vol. iii, 1904 (report of 1892); Report on a Tour in Turkish Arabia and Kurdistan, April-May 1910; Op Vom Mittelmeer zum Persischen Golf (journey in 1893); authorities Route 25 b and oral information relating to recent years. The distances in this section of the river are very uncertain. They on the times given by various authorities who descended the rive and as the speed at which a raft moves may vary greatly with c the rate of the current or the wind, it is impossible on such ex estimate mileage with any approach to precision.	cited are ba r by r
of ea	For most of the way between Mosul and Samarra the Tigon a shallow valley through rolling plain country. The west of the valley, which seems to be more sharply defined that eastern, is formed by a low plateau-edge or by small ridges 50 igh. The undulating plain is interrupted, at about 60 miles.	tern s than 0–150



"كتيّب بلاد الرافدين. المجلد ا||. ١٩١٧ " [٣٩] (٨٤/٢٣٤)

		(0)
	THE TIGRIS—ROUTES III D, E 39	
Inter- mediate distance	Left Bank	
Miles	Some distance above the tower is an opening in the bank marking head of an ancient canal (Nahr Talsiyeh?). Ruin-fields extending up to Samarra. The river is here reported to contain several small rapids, probably due to outcrops of rock in the river-bed.	
2	Ford in low-water season.	
4	Samarra Boat-bridge. The river here varies in breadth from 370 to 460 yds., according to the season. Its current in mean water is 3 m. an hour. Its depth is considerable: reliable details on this point are lacking. The I. bank is high (60-80 ft. above the river in l.w.), and shuts off the view of the town from the Tigris. The r. bank is said to be about 30 ft. high and steep. The banks and river bottom are mainly firm earth, with some sand (mostly on r. bank) and a few stones.	
rugged its way hills. of rock. enclosin scrub. the mo large, a Ledges and the in a si 400-55 Great Z breadth Tekrit). bed of t	a and 120 miles from Mosul, by the Jebel Hamrīn, a range of heights rising to 300-500 ft., through which the river forces after running for some distance along the NW. side of the The Tigris flows over a bed mainly of shingle, with outcrops The river frequently breaks up into two or more channels, ig low islands often overgrown with tamarisk and other These islands are specially numerous between Mosul and it of the Great Zāb. The rocks in the river-bed are often indicated up out of the water or are barely covered by it. of shingle, stretching across the channels between islands banks, and forming rapids, are common. Where it flows ingle channel, the river is in the flood season generally by yds. broad from Samarra up to the neighbourhood of the tab, where it is said to narrow to 200-250 yds. In l.w. its in places may decrease considerably (see, e.g., m. 31, under The current varies considerably according to the width and the river, and the time of year. Depths also are very variable low under Navigation). For the two great tributaries, the	

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40

RIVER ROUTES

Lesser and Great Zābs, see *Route* III F, and this route under m. $150\frac{1}{2}$.

Navigation.—Native sailing-craft do not usually go above Samarra, the current being too strong in h.w. In l.w. they could reach Tekrit by carrying half-cargoes. Practically all the river-traffic in this stretch is down-stream, and is carried on by means of the large rafts known as keleks (see vol. i, p. 166). Times taken by these rafts vary greatly according to the condition of the river, the wind, &c. A raft in May (h.w.) 1910 descended the river from Mosul to Samarra in about 30 hours' travelling (exclusive of stops). At the end of August (l.w.) the journey has taken 70 hours' travelling (exclusive of stops). The numerous rapids, rocks, and islands make night-travelling dangerous, at least when there is no moon.

In the l.w. season it might perhaps be possible for steamers of 3 ft. draught to navigate the river as far as the Hamrīn Hills. A German archaeologist at Qal'ah Sherghat said in 1910 that he had found a place below Qal'ah Sherghat where in the low season there was not more than half a metre (about 19 in.) of water anywhere in the river. This may have been due to shingle ledges forming rapids (see a grander m. 62)

rapids (see e.g. under m. 63).

Native raftmen asserted in 1910 that at each of the fords across the Tigris in this section there is always a part in which the water

is breast high.

Steamers could probably go considerably higher than the Hamrīn Hills in a full river, except perhaps at the highest of the flood, when the current at rapids might be too strong for them. In 1839 one of Chesney's steamers, the *Euphrates* (3 ft. draught), ascended the river as far as Sultān 'Abdallah (m. 144).

Motor-launches could probably be used throughout this section

even in low water.

The navigation of the river is apparently subject to fairly frequent modification, as the main volume of the water may shift from one channel to another, and shingle ledges may be altered as the result of the annual floods.

The rocks are the most serious danger to navigation, and rafts are not infrequently wrecked in the descent of the river. The rapids formed by shingle ledges are generally easy in the h.w. season. For rocks, see m. $19\frac{1}{2}$, $20\frac{1}{2}$, $21\frac{1}{2}$, $24\frac{1}{2}$, $69\frac{1}{2}$, 97, 98, $131\frac{1}{2}$, 149, 150, $152\frac{1}{2}$. For rapids, see m. 47, 63, 66, $76\frac{1}{2}$, $92\frac{1}{2}$, $110\frac{1}{2}$, $149\frac{1}{2}$, $154\frac{1}{2}$, $159\frac{1}{4}$. See also m. $162\frac{1}{2}$.

Fords and Ferries.—For fords see under m. $5\frac{1}{4}$, $21\frac{1}{2}$, 36, 87, $88\frac{1}{2}$, $113\frac{1}{2}$, 165. These fords, which are passable in l.w. only, have pebbly

bottoms.

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"كتيّب بلاد الرافدين. المجلد !!!. ١٩١٧ " [٤١] (٥٠/٣٢)

THE TIGRIS-ROUTE III E

41

Native ferries (boats or *keleks*) at Tekrit (m. 31), near Qal'ah Sherghat (m. $113\frac{1}{2}$), at m. 150, 'Uneifeh (m. $161\frac{1}{2}$), and probably elsewhere at the larger permanent villages. The natives, when crossing the Tigris singly, swim the river, supported on two inflated skins tied together.

The Banks and River Valley.—The banks are formed generally of sandstone or conglomerate, and sometimes of gypsum or (as above Tekrit) of sandy alluvium. They are generally fairly high, occasionally rising to bluffs or cliffs as the river approaches the side of the valley. From the Fet-hah gorge up to a few miles below Qal'ah Sherghat the steep and broken sides of the Jebel Hamrin rise abruptly from the river, first on both banks (in the gorge above mentioned) and farther up on the r. bank only. The hill-ridges or plateau-edge on the W. side of the valley are usually ½-2 m, from the river. The banks are intersected at intervals by wadis.

Strips of flat ground, covered with alluvium, occur along the banks. A small alluvial plain of this kind is known locally as hawi. Patches of cultivation are found near the river: water-lifts (cherrads) are in use between Samarra and Tekrit. Cultivation in the valley is poor and sporadic throughout the greater part of the section, but becomes comparatively frequent on both banks from the confluence of the Great Zāb to Mosul. Where there is no cultivation, the valley is either bare or overgrown with tamarisk and camel-thorn. A few miles above Tekrit, and in a good many places N. of the Jebel Hamrīn, good pasture is found in spring. There are very few trees, and no date-palms occur between Tekrit and Mosul. Along the E. side of the valley, S. of the Jebel Hamrīn, run the large dry canalbeds of the Nahrawān (Nahr er-Rasāsi) and the Nahr en-Neifeh (see m. 17½ and m. 56).

The country E. and W. of the Tigris Valley.—Up to the Jebel Hamrīn the country is desert on both sides of the river valley. The Jezīreh to the W. is bare and stony, with only a little poor vegetation in spring in its hollows and wadis. To the E. the plain is by nature less barren, but it is inhabited now only by a few nomads. N. of the Jebel Hamrīn the Jezīreh has less of a desert character: there is good spring-grazing in the rolling country between the river and the Wādi Tartar. To the E. also cultivation gradually becomes less rare, though it is liable to suffer from droughts and plagues of locusts. A considerable amount of corn is produced in the plain between Erbil and the Tigris, and the country between the Great Zāb and Mosul is fairly well cultivated.

Inhabitants.—The only place between Samarra and Mosul that can be called a town is Tekrit (see m. 31). Up to the confluence

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42

RIVER ROUTES

of the Tigris and the Great Zāb permanent villages are few, and, with the exception of Dūr (see m. $20\frac{1}{2}$) and Tel esh-Sha'ir (m. $145\frac{1}{2}$), insignificant. A number of nomad encampments are generally to be found near the river, especially in summer, and there are apparently settlements of semi-nomads, which after remaining for some years are liable to alter their position or to disappear altogether. The settled and semi-nomad inhabitants of the r. bank are for the most part Jebūr Arabs, who pay a tribute to the powerful nomad Shammār. The influence of the Shammār, who formerly controlled the r. bank of the Tigris from Mosul to Baghdad, has been lately declining. But acts of brigandage were still committed here

Right Bank	Total distance
Samarra. General direction above Samarra is N. by W. as far as Shereimiyeh (see m. 61½ below). The Mosul road follows the river about 300 yds. from the bank. The edge of the desert	Miles O
Abid, 20 houses of Sawamireh (i. e. people of Samarra).	11/4
	2
Qubbat es-Sulabriyeh, ruined octagonal building (60 ft. in ength and breadth) on rising ground, "1 m. W. of river.	$2\frac{1}{2}$
Qal'at el-'Āshiq, ruined castle in bold situation above valley, $\frac{3}{4}$ m. from river, in form a rectangle 133 yds. N.–S. × 33 yds. E.–W., consisting of wall with round bastions, from which ground falls abruptly to E. Below E. slope is a belt of low alluvial soil cultivated by water-lifts, here about $\frac{1}{2}$ m. wide, and broadening considerably farther on.	334
	43/4



"كتيّب بلاد الرافدين. المجلد ا||. ١٩١٧ " [٣٤] (٢٥٢/٣٤)

-		
		24
		THE TIGRIS—ROUTE III E 43
www, and a. 1454 beere as ning for ear all- cowerful formers has been ted be	the war. On the population of semi-given to Great Z villages	ne l. bank also Jebūr form the bulk of the scanty settled ion. N. of the Hamrīn range, in the plains between the urhood of the river and the mountains, are tribes of nomadic nomadic Kurds (see vol. i, p. 68, &c.), mostly well armed and brigandage. In the neighbourhood of Erbil and between the lab and Mosul there are a number of Chaldaean Christian and Yezidi communities. he Baghdad—Mosul route, along the r. bank of the Tigris, see
		Short I an earlier at the part of the state
Tall čistos	Inter- mediate distance	Left Bank
His ()	Miles O	
14	11/4	Lower end of Kuweir I. Other islands occur in this neighbourhood, carrying small trees or bushes. Ruins are visible from the river lying at some distance inland.
3	3/4 1/2	Kuweir village is about \(\frac{1}{4} \) m. farther up the island. In this neighbourhood are some small shrub-covered islands. Beit el-Khalīfeh, ruin of large vaulted hall, one of the palaces of old Samarra.
31	11/4	Lower end of large island stretching N. for $^{\sim}2-3$ m. El-Ma'shūqah, ruin (? of castle), in the valley of the river. Little is left but the buttresses of the walls.
4	1	Lands of Bisāt village (see m. 5½) begin in this neighbourhood. Tel 'Alīj ('Nose-bag Mound'), large artificial mound about 2 m. from river, surrounded by a moat, outside of which are



"كتيّب بلاد الرافدين. المجلد ا||. ١٩١٧ [٤٤] (٣٥/٣٣٤)

Right Bank	Tota
	Miles
? Ford in l.w. season to Bisāt village on l. bank. Village of 30 houses (Samarra Arabs).	54
Large bend in river (in a westerly direction?) reported in	
1910.	$5\frac{3}{4}$ $7\frac{1}{2}$
Loweyyeh camp-ground is in this neighbourhood (see Route 25 b, m. 86).	11
	$11\frac{1}{2}$



"كتيّب بلاد الرافدين. المجلد ا||. ١٩١٧ " [٥٤] (١٩٢/٥٤)

		mile michic horres in a	
		THE TIGRIS—ROUTE III E 45	
THE STATE OF THE S	Inter- mediate distance	Left Bank	
	Miles	traces of a circular wall at about 110 paces distance. A raised causeway runs from this tel, a little E. of N. to a point about $\frac{1}{2}$ m. distant. A short distance to the SE. of this tel is the dry bed of the Nahr Nahrawān (here called Nahr er-Rasāsi), which has run to this point in a general WNW. direction from Tel Mahāsil (see Route III D, m. $60\frac{1}{2}$), bends NNE., and seems to be traceable, running roughly parallel with the river, at a	
**************************************	1/2	distance varying from 3 to $1\frac{1}{4}$ m. for some miles. Hawā-i-Sullat settlement: 20 houses of Āl Bū 'Abbās. Bisāt village in trees: 25 houses of Samarra Arabs. Qafas Shinās: large tent-settlement of Āl Bū 'Abbās, a short way above Bisāt. Here is a large enclosure, surrounded by the remains of walls and towers of sun-dried brick, in a very ruinous condition. A few hundred yards to the N. of this ruin lies another, of oblong shape, nearly $\frac{1}{3}$ m. across, with a walled triangle	
67	1/2	to the N., in which is a small square enclosure near the river.	
Figure	13/4	Mouth of Wādi Abu'l Aswad, a water-course from the Hamrīn Hills, lies in this neighbourhood. This wadi is dry in summer: at other times it brings water from the hills to the Tigris. There is said to be much spring pasturage in its neighbourhood. Ruin-heaps of a quarter of old Samarra, marked on maps as Eski Baghdad. This name is apparently applied locally to the whole group of ruin-fields from modern Samarra to Abu Delef (see m. $11\frac{1}{2}$). The 1. bank here is of conglomerate and elevated, with	
	31/2	numerous water-lifts.	
- Andrew	1/2	Sinn Yehūdiyeh, a bluff, intersected by a small ravine leading from the high plain to the river. There are several more similar ravines to the N. Here also is a mouth of a minor arm of Tigris, with islands and shoals. This arm runs generally NNW. for about 3½ m. from the point where it leaves main stream. Along its l. bank,	



"كتيّب بلاد الرافدين. المجلد ا||. ١٩١٧ " [٢٦] (٥٥/٢٣٤)

46 RIVER ROUTES	
Right Bank	Total
careas orang to themselve to their network and a section	Miles
Cultivation by water-lifts on r. bank ends in this neighbourhood. The distances here are very uncertain. An authority who descended the river in the high-water season (May 1910) reports that he took 28 minutes between the Haraqiyāt	15
rocks and Nahr er-Rasāsi. Tel el-Mohaijir, Arab camping-ground on eminence, 1 m. from river. Continuous cultivation here, on both sides of the Baghdad—Mosul land route.	$17\frac{1}{2}$
m 1 11 fth sinnin how shout 400 miles	$18\frac{1}{4}$ $19\frac{1}{2}$
The breadth of the river is here about 400 yds. Above this point the river divides into several arms opposite Dūr. The channel apparently follows r. bank.	102
opposite Dur. The channel apparently follows it bank.	$20\frac{1}{2}$
entropie interestado de estamentos e terrescos e antidos realidades. Amigos escalaros IVIII de entropientos se a comencia de la comencia de la comencia de la comencia de la comencia	
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	THE TIGRIS-ROUTE III E 47
Inter- mediate	Left Bank
distance Miles	as far as the Nahr er-Rasāsi (dry canal) the ground is covered with ruins. At the mouth of the arm is Qit'at Āl Bū 'Īsa, a ruined enclosure. \(^71,250\) yds. NE. of this is Abu Delef, a large mosque, of which little remains except detached columns or arcades, and part of a spiral minaret to the N. About 600 yds. N. by W. of this minaret is a spring, surrounded by ruins. N. of Qit'at Āl Bū 'Īsa, on the l. bank of the arm, at \(^7760\) and \(^71,500\) yds., are walled enclosures. Qasr el-Mutawakkil (palace of Caliph Mutawakkil, ninth century) lies near the point where the arm leaves the main stream, ruin-heaps extending over an area of about 1,400 yds. square. The Nahr er-Rasāsi, bending from NNW. to NW., about 2,000 yds. NNE. of Abu Delef, skirts Qasr el-Mutawakkil on the E. From the bend the dry bed of Nahr en-Neifeh runs in a NNW. and N. direction.
$3\frac{1}{2}$	From Sinn Yehūdiyeh the main stream bends WNW. for ⁷ 2 m. Upper entrance to arm of Tigris (see m. 11½); ruins of Qasr el-Mutawakkil , about ¾ m. from bank. Low conglomerate cliffs.
$2\frac{1}{2}$	Head of Nahr er-Rasāsi (Nahrawān). This is marked by an opening in the conglomerate cliffs. The bottom of the canal was some 15 ft. above the level of the river in May 1910.
1 ³ / ₄	Conglomerate cliffs end. In this neighbourhood Haraqiyāt rocks near l. bank, submerged in flood season. They are said to project 5 ft. in low water.
1	Dūr village, of about 500 houses, situated on some mounds near the river-bank, between the Tigris and dry course of Nahr en-Neifeh. The inhabitants are all Mohammedans, for the most part raftmen and carriers. The place is the seat of a Mudir. (The site is an ancient one. In A. D. 363 the Roman army in its retreat from Ctesiphon, after the death of the Emperor Julian, found here the city of Dura.)



"كتيّب بلاد الرافدين. المجلد ا||. ١٩١٧ " [٨٤] (٢٥٢/٣٤)

48 RIVER ROUTES		
Right Bank	Total distance	
	Miles	
	011	
Some cultivated land on r. bank worked by temporary settlers from Samarra (1910).	$21\frac{1}{2}$	
A ford, passable in the l. w. season, was reported in 1910 at a point described as being at ¹ / ₄ hour's walk above Dahr.		
rocks.		
Rocks in river in this neighbourhood. In May 1910 they were submerged, causing rough water. In l. w. they are	9	
said to stand out 'as high as a camel'. Rafts have been wrecked here.		
The hills gradually decrease in height and approach the river.	25	
An encampment of Ba'jeh Arabs was reported hereabouts	3	
in 1910. Tekrit cliffs begin in this neighbourhood. The hills above	$26\frac{1}{2}$	
this point come close to the bank. They are much cut up by ravines.		
Tekrit. The stream here has been estimated at 250 yds wide in October (1903), and 500-600 yds. wide in May 1910.	. 31	
It is shallow on the Tekrit side. In May 1910 it was possible	9	
to wade 100 yds. from the r. bank. The current has been estimated at 2-3 m. an hour (l. w. season). Ferry.		
Above Tekrit the cliffs (mud and conglomerate) continue on the r. bank. The district immediately above the town is	3	
called Qā'im. In this neighbourhood the cliffs cease, as the range of		
Jebel Selweh recedes from the river. A low strip of land	-	



"كتيّب بلاد الرافدين. المجلد ا||. ١٩١٧ " [٩٤] (٨٥/٢٣٤)

		THE TIGRIS—ROUTE III E 49
me	nter diate tance	Left Bank
	iles 1	Imām Dūr, shrine of a Shiah saint, is a tower on an eminence, with a rounded top, between the river and the village; a high square building, built in diminishing stages. It is visible from the river above Dūr as far as Tekrit. About 1½ m. E. of Dūr village is a large mound named Tel Benāt. In the river opposite Dūr is a large island with water-lifts and cultivation. Between it and the r. bank is a smaller island. Main channel apparently follows r. bank. At and above Dūr the l. bank is high. In the river, extending about ¾ m. above Dūr, are the Dūr rocks. Some of these were visible in May 1910, others submerged. The latter are said to rise 6 ft. above the water in the low season, dividing the river into several channels. Dahri rocks. The group of rocks first met with in proceeding up stream are submerged in h. w. but are said to be
	3	ceeding up-stream are submerged in h. w., but are said to be uncovered to about $2\frac{1}{2}$ ft. in l. w. A short distance above them is a rock said to be submerged even in the low season. Broken water.
	1/2	District called Hatreh begins in this neighbourhood.
	$1\frac{1}{2}$	
	41/2	The l. bank opposite Tekrit is low. Date-palms on the l. bank above Tekrit. There are no palms on the river bank above this point.
	$2\frac{1}{2}$	
2	des, II	D



"كتيّب بلاد الرافدين. المجلد الله ١٩١٧" [٥٠] (٥٠/٢٣٤)

50	RIVER ROUTES	
	Right Bank	Total distance
now intervenes	between these hills and the bank: it is called	Miles
A little abo	ve the island is Tel es-Sūq : ruin mound. e rocks said to be uncovered in l. w. season.	$34\frac{1}{2}$
The Hawi I river, and the rising to 80 ft. The name of	Mātarīdeh ends. The hills close in on the bank is lined by steep conglomerate cliffs for about 2 m. The hills here changes from Jebel Selweh to	36
a point describ	See m. $33\frac{1}{2}$. Able in l. w. season was reported in 1910 at led as being at $\frac{1}{2}$ hour's walk above the Jebel	
Selweh.	and activit assument off at they	41
the river. In 1 on which it s	Riyāsh, ruined building on rocky cliffs above 908 it had almost disappeared, the high ground tands having been eroded by the river and Above Qal'at Abu Riyāsh the cliffs recede the r. bank.	47
extend up to to small rapids, to would be $3\frac{1}{2}$ liable to be mu	of shingle banks lie above this point, and he Hamrīn Hills. Some of these banks form out it seems probable that even in l. w. there is ft. of water over most of them. They are ach altered by the annual floods. The channel ally to follow the r. bank.	
A sandy pla and $1\frac{1}{2}$ m. bro	in begins along the l. bank. It is 6 m. long ad, and bounded on the W. by low sand-hills nich the Mosul road skirts.	56
A series of r. bank hereal (see m. 63 belo Khān el-K men, situated	tamarisk-covered islands lying towards the bouts extends up as far as the Fet-hah gorge	
Beiji villag the river bank	e (15 houses of Jebūr) reported in 1910 on.	59
former, a whi	th. Turkish military post and khan. The tish building, is visible from the river: the be seen from a raft. Good camping-ground yards from the river. Between Shereimiyeh	61



"كتيّب بلاد الرافدين. المجلد ا||. ١٩١٧ " [٥١] (٣٢/٦٠)

	THE TIGRIS—ROUTE III E 51
Inte	
medi	ate Left Bank
Mile	es ·
1	the first and the little of the first and will reduce the
	Learner of the contract of the
1	
	of the vertical section of the contract of the
5	Encampments of Jebūr Arabs reported in this neighbour-
6	hood (1910). Encampments of Abu 'Ali reported in 1910.
	disease and the simple of the professional states and the same of
9	TI-1 6 11 77 1
	Head of the Nahr en-Neifeh (see above, m. 11½), the northern end of the ancient canal system of Irak. It
	appears from the river as a hollow between two mounds (the ends of its banks).
3	Tel Khuwein, a short distance above the head of the Nahr en-Neifeh.
21/2	Umm el-Laqlaq village (50 houses of 'Obeid Arabs in
	a walled enclosure): it is a short distance above Shereimiyeh, on the opposite bank.
	D2



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ " [٢٥] (٢٣٢/٦١)

52 RIVER ROUTES	
Right Bank	Total
and Umm el-Laqlaq is a broad island called Shereimiyeh. The river here is nearly 1 m. in width from bank to bank. Above Shereimiyeh the Jebel Hamrīn , here a low line of rocky hills approaching the l. bank from the SE., is traversed by the Tigris through the Fet-hah gorge, in which the hills rise sheer from the stream, leaving no space for a path. N. of the gorge the hills continue close along the r. bank to a point about 5 m. S. of Qal'ah Sherghat. The Mosul route therefore leaves the river at Shereimiyeh in a NW. direction, skirting the western side of the Hamrīn Hills, and does not	Miles
rejoin the river until Qal'ah Sherghat. The land in this neighbourhood is called Sofeiriyeh.	62 62 ¹ / ₂
The Hamrīn Hills rise from the river bank, forming with their continuation on the l. bank the southern end of the Fet-hah gorge. N.B.—The position of rocks and rapids, which are frequent between this point and Qal'ah Sherghat, could not be determined with exactitude owing to discrepancies in the available	63
evidence. Above the Suweir rapid (see opposite) extends for about 3 miles a group of islands called Khandida lying towards r. bank.	
	66
Hamrin Hills continue close along river on r. bank, much cut up by ravines.	68
Isolated rock in the stream 15 yds. from r. bank near this point (1892).	691



"كتيّب بلاد الرافدين. المجلد ا||. ١٩١٧ " [٥٦] (٢٢/٦٣)

Inter-	
mediate distance	Left Bank
Miles	
1	
$\frac{1}{2}$ $\frac{1}{2}$	The land in this neighbourhood is called Umm el-Leieh . Hamrīn Hills approach close to l. bank.
	In the l. bank of Fet-hah gorge there are at intervals stretches of calcareous rock, with threads of petroleum and
1/2	bitumen oozing from them. Suweir rapid, between l. bank and an island. It was
2	reported that in the l.w. season of 1892 the current below
	this rapid set towards some low cliffs on the l. bank, under which there were two flat-topped ledges in the stream covered
	by $2\frac{1}{2}$ ft. of water, but forming an eddy dangerous to rafts. These could be avoided by a deep channel 40 yds. wide near
	the island. The Suweir rapid itself was at that time formed by a long diagonal shingle ledge, partly uncovered but with
	$2\frac{1}{2}$ -3 ft. of water in the channel next the island. The current was $4\frac{1}{2}$ - $5\frac{1}{2}$ m.p.h. (A report of May 1910 merely men-
	tions broken water near the l. bank, caused by rocks called Suweir).
3	Another rapid in the channel between the l. bank and the upper end of the Khandida Islands, about 1 m. above the
	first. In l. w., 1892, a channel free of rocks, 60 yds. wide
2	and over 6 ft. deep, with a current of about $5\frac{1}{2}$ m.p.h., led up to a shingle ledge extending for 20 yds. with 4 ft. of water.
- 7797	Upper end of Fet-hah gorge. The bituminous cliffs of calcareous rock (see m. $62\frac{1}{2}$) are here about 20 ft. high.
	Hamrin Hills end on l. bank. Fet-hah ruins, site of ancient city, at foot of NE. slope of
11/2	Hamrīn Hills, about ½ m. from river.
-	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٥٤] (٣٢/٦٣)

	Mata1
Right Bank	Total distanc
	Miles $70\frac{1}{2}$
	$71\frac{1}{2}$
Sharp change of direction from W. to NNE. Hills rise steeply from river on r. bank: low foreshore to left. Sulphur spring in this neighbourhood.	73½
Diagonal shingle ledge reported in l. w., 1892, as being covered by $2\frac{1}{2}$ ft. of water. Channel near r. bank. Several	75
small ravines and low cliffs on r. bank.	$76\frac{1}{2}$
Qal'ah Jabbār, ruins of fort, on a hill about \(\frac{1}{4} \) m. from river. Deep ravines to N. and S., of which the northern curves S. along part of the W. side. The hill is thus triangular, with its apex to W., where it is connected by a saddle with the hills on the landward side. Its plateau is 325 ft. at its lowest point, about 700 ft. at its highest (SE.), above the bottom of the ravines. The wall on the river side of the plateau still remains: it is about 13 ft. thick. It was reported in 1898 that there was a sulphurous spring below this ruin.	$78\frac{1}{2}$
Mounds. Broken water called Hamrah (authority 1910). Mouth of Wādi Jahannam, a water-course, usually dry. It lies in a ravine which runs from NW. to SE., roughly parallel with the course of the Tigris above the junction with the Lesser Zāb, at a distance from the r. bank of the Tigris varying between 1 and 3½ m. The gorge continues narrow for about 20 m. up, then it widens till it is several miles broad. Under the name of the Wādi Tālib it may apparently be traced across the desert, bearing more to the north, till its head is reached in the Kaiyara Hills, perhaps 20–30 m. WNW. of Kaiyara oil-springs.	83 86
WNW. of Kaiyara oil-springs. Ford passable in autumn, called Esh-Shejereh, is reported hereabouts, but may be the same as that mentioned under m. 88½.	87



"كتيّب بلاد الرافدين. المجلد ا||. ١٩١٧ " [٥٥] (١٣٢/٦٤)

	THE TIGRIS—ROUTE III E 55
Inter- mediate	Left Bank
distance	
Miles 1	Slight rapid, with 4 ft. of water, between l. bank and
1	island (so reported in l. w. season of 1892).
1	Tel ed-Dahab, ruin-mound about ½ m. from river bank,
	where it bends W.
2	Shingle ledge in bed of stream next l. bank at or near
	angle of bend. (Apparently reported 1892: but course of river seems to have changed considerably here in recent
	years).
$1\frac{1}{2}$	MARKET AND THE RESERVE TO TOTAL SALES AND AND SALES AND
11/2	Rapid between 1. bank and large shingle island (August
-	1892). Channel followed l. bank in 1892. In l. w. season
	of that year it was reported that there were signs of a rise
2	in flood of 18–20 ft. Open level country.
	open to to country.
*	
•	
0	Wal Warming mound on I hank in this naighbourhead
$\frac{2}{2\frac{1}{2}}$	Tel Marmūs, mound on l. bank, in this neighbourhood.
3	
1	The same to the same of the sa
1	



"كتيّب بلاد الرافدين. المجلد !!!. ١٩١٧ " [٥٦] (٣٢/٦٥)

56 RIVER ROUTES	
Right Bank	Total
	Miles $87\frac{1}{2}$
? Ford in l. w. season (reported 1910). Rapid? See opposite page.	$88\frac{1}{2}$ $92\frac{1}{2}$
The hills (here called Jebel el-Makhūl) close in on the	
Qal'at el-Bint (also called Qal'at Makhūl), an old partially ruined castle lying at the SE. end of the summit of a hill which runs SE. to NW. close to the river, rising about 200 ft. above the stream, and lying between two deep ravines (the larger on its N. and W. sides). These ravines isolate the hill except on its SW. corner, where it slopes to the neck which connects it with the ridge behind it, but across this neck is drawn a trench about 7½ ft. deep. The steepest sides are those to the SE. and NW. (i. e. those above the	94
smaller ravine and the river). The walls of the castle are of unburnt brick strengthened by rubble, those which lie on the SE. and SW. being in a fairly good state of preservation. A curtain visible from the river is loopholed. The place was probably used as a base from which to plunder and blackmail the river-traffic. Its position commands two reaches of the river.	0.51
In this neighbourhood, Farrāj rock makes rough water near the r. bank, which is here high and broken. Hills on r. bank (here called Jebel Khanūqah) rise abruptly from the river in rocky cliffs, which extend for about 5 m. The Jebel Khanūqah is a fairly narrow ridge. The bed of the Wādi Jahannam (see m. 86) runs parallel to the river on the other side of the ridge.	$95\frac{1}{2}$ 97
	98
River bends sharply. Direction changes from NW. to ENE. From this point the ridge of the Jebel Khanūqah withdraws from the river and continues to run in a NW. direction.	102



"كتيّب بلاد الرافدين. المجلد ا||. ١٩١٧ " [٥٧] (٢٣٢/٦٦)

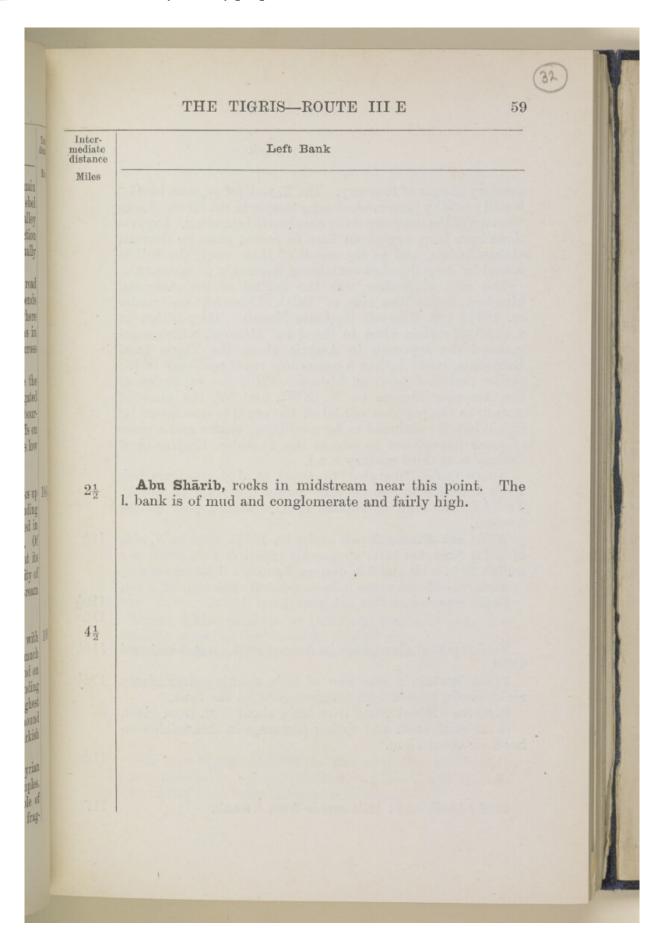
Inter- mediate	Left Bank
Miles	
$\frac{1}{2}$ $\frac{1}{4}$	Junction of the Lesser Zāb with the Tigris, 250 yds. broad (see Route III F). Hawi Dindi, reported to be a permanent camp of the Jebūr, extends up the Tigris for an hour's walk. Esh-Shaqq: 90 huts of Jebūr. Tureisheh rapid? It is reported that in May 1910 the sound of rushing water near the l. bank was heard from a raft: but the raftmen denied the existence of any 'awāyeh
	or real rapid.
$1\frac{1}{2}$	
$1\frac{1}{2}$ $1\frac{1}{2}$	Shrine called Gumbet el-Hadīdi.
1	Savan on Want walks (at an man this with it with
1	Saqar en-Naml rocks (at or near this point) in river close to l. bank.
4	Low fertile strip called Shatt el-Jidr , on the l. bank.

"كتيّب بلاد الرافدين. المجلد الله ١٩١٧" [٥٨] (٢٣٢/٦٧)

58 RIVER ROUTES	
Right Bank	Total
tion till it ends apparently about "10 m. away. The main ridge of the Jebel Hamrīn, which lies to SW. of the Jebel Khanūqah and is separated from that range by the valley of the Wādi Jahannam, apparently takes a WNW. direction from this point, the valley between the ranges gradually widening. About 2 m. W. of the river-bend the Samarra—Mosul road crosses the Wādi Jahannam, and, running NE., ascends diagonally to the summit of the Jebel Khanūqah (where the track becomes difficult for wheels), whence it runs in a general NE. direction down the northern slope and across the plain for about 3 m. to Qal'ah Sherghat. The plain, which begins on r. bank of river above the bend, is naturally fertile and contains cultivation (irrigated by cuts from river) and spring pasturage. The neighbourhood is the property of the Da'irāt es-Sanīyeh. The cliffs on the r. bank gradually decrease in height till they end as low bluffs a short distance below Qal'ah Sherghat.	Miles
River bends N., and some way above this point breaks up into several channels enclosing a group of islands extending for some distance upstream. In 1898 the Tigris flowed in three main arms opposite Qal'ah Sherghat (see m. 109). Of these the middle arm apparently joined the western at its lower end a short distance below the southern extremity of the ruin-field, and the eastern arm met the rest of the stream somewhat still farther to the south.	104½
Qal'ah Sherghat. A large tel, about 150 ft. high, with a circumference of 4,685 yds. The sides are steep and much broken. On the east it rises abruptly from the river, and on the landward sides its base is marked off from the surrounding plain by a broad trench. The northern end is the highest point of the tel, where it is crowned by a conspicuous mound shaped like a truncated cone. Near this mound is a Turkish guard-house. The tel is the site of the citadel of the ancient Assyrian Asshur, and on it stood a royal palace and several temples. The mound at the N. end marks the site of the temple of the god Asshur. The hill is still covered with large frag-	109



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٩٥] (٣٢/٦٨)





"كتيّب بلاد الرافدين. المجلد !!!. ١٩١٧ [٦٠] (٢٣٢/٦٩)

60 RIVER ROUTES	
Right Bank	Total
mentary masses of masonry. The E. wall (of gypsum blocks) is still partially preserved, sloping steeply to the river. Large portions of the northern walls are also still standing. Excavations have been carried on here in recent years by German archaeologists, and as the result of their work the hill is scored by deep trenches containing fragments of masonry. The city of Asshur was the capital of the Assyrian kingdom before the rise of Calah (Nimrūd, see under m. 159¼) and Nineveh (opposite Mosul). Its position in a cultivable plain close to the Jebel Hamrīn, which commanded the approach to Assyria along the Tigris from Babylonia, made Asshur a convenient royal residence in the earlier period of Assyrian history. With the expansion of the Assyrian Empire to N., NW., and W. the place of Asshur as the political capital of the country was taken by Calah, but it continued to be a religious centre and a place of some importance as late as the Parthian Empire (first century B.Cthird century A.D.). Above Qal'ah Sherghat to about m. 144 the Qarachok Dāgh is visible in the distance across the plain to the E. To NNE. the high mountains of Kurdistan appear on the	Miles
wādi esh-Shabābīk (see under m. 131½), close to N. side of Qal'at Sherghat hill: apparently reported (Feb. 1903) as a nullah 20 ft. wide and 5 ft. deep containing a little rain-water. Samarra—Mosul route follows general direction of river. Rapid reported in this neighbourhood (1893).	110 110 ¹ / ₂
	112
Ford reported about here in August 1903: not mentioned 1910.	$113\frac{1}{2}$
Jebel Matak, a low line of hills running near river: rocky bluffs, topped with conglomerate, on the bank. Samarra—Mosul route near hills, about 1 m. from river. Some cultivation and spring pasturage in this neighbour-	114½
hood for about $7\frac{1}{2}$ m.	116
Rocky bluffs end; hills recede from r. bank.	117



"كتيّب بلاد الرافدين. المجلد ا||. ١٩١٧ " [٢٦] (٧٠٠ ٤)

	THE TIGRIS—ROUTE III E 61
Inter- mediate distance	Left Bank
Miles	
11.	
1	
$1\frac{\frac{1}{2}}{1}$	Marked Abia mounds in this minh and and in
	Tukul Akir, mounds in this neighbourhood near river, probably marking the site of an ancient city.
$\frac{1\frac{1}{2}}{1}$	Mezār esh-Sherghat ferry (one crazy boat).
1	Tukul Akir village.
11/2	Ford (l. w.) reported (1893) in this neighbourhood: but it
	is not included in list of fords between Mosul and Baghdad compiled in 1910 from raftsmen's information.
1	



"كتيّب بلاد الرافدين. المجلد !!!. ١٩١٧ " [٢٦] (١٧/٢٣٤)

62 RIVER ROUTES
Right Bank
Village of Matuk and island. The bank is comparatively low. Tel er-Raguba, conglomerate mound about 50 ft. high.
Broken water due to rocks. Low conglomerate cliffs on r. bank. These appear to be the end of a line of low eminences running WNW. for about 20-30 m. At this end quite low, the chain is reported to rise to some 500 ft. at its western extremity. On the S. slope of these hills lie the heads of the Wādi Tālib (or Jahannam) and esh-Shabābīk. N. of this rising ground lies Kaiyara valley.
Conglomerate cliffs end. Wādi el-Massāl, carrying some water to river (May). It appears that it does not come from Qaiyariyeh (Kaiyara?) as might be supposed.
Mouth of oily stream flowing into the Tigris from the NW. Near this point large encampment of Jebūr (1910). Samarra—Mosul route passes near this point. Kaiyara bitumen springs and oil refinery. These lie about 2 m. inland near the oily stream, on the r. bank of which are the new oil-works. Shortly before these are reached from the Tigris an old fortified enclosure is passed. A report of 1910 says: 'The bitumen springs are situated in the beginning of some low hills, where they form an expanse of bitumen [which may be compared to a surface of inky water covered with jet black ice] irregularly shaped, with an average diameter of about 100 yds. The surface is all bitumen, in places hard, in places viscous, in places soft; and there are oozings here and there of sulphurous water. The bitumen is collected soft in the open watery spots and packed in skins; what is taken away during the day is replaced in the night. The crude bitumen sells at the springs for half a beshlik per skin of about 40 lb., or approximately 8 lb. for a penny.



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ " [٣٦] (٢٧/٢٣)

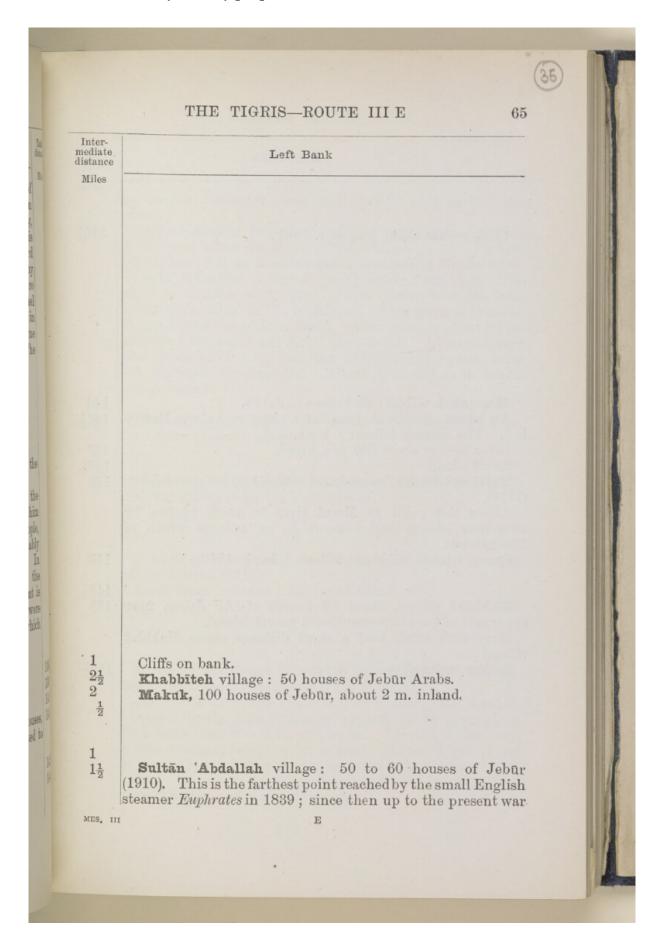
Inter- mediate	Left Bank
distance Miles	
$\begin{array}{c} 1 \\ 5\frac{1}{2} \end{array}$	El-Haichel camping-ground? Ganaus mound. Ganaus village, 5 houses of Jebūr, is a short distance above.
5	Cliffs called Chahala begin on the l. bank. Chahala cliffs end just below Matuk village.
$1\frac{1}{2}$ $\frac{1}{2}$	Mound and village of Haji 'Ali: 25 houses of Jebūr, 1910. Considerable Arab encampment near Haji 'Ali (1910).
1	
11/4	'Osajeh village. (25 houses of Juheish Arabs, 1910.) Hills close in on the l. bank.
13/4	

"كتيّب بلاد الرافدين. المجلد !!!. ١٩١٧ [٢٤] (٣٢/٧٣)

64 RIVER ROUTES	
Right Bank	Total distance
'The oil produced here is distilled from crude bitumen of the consistency of stiff treacle. Twenty tins of bitumen yield ten tins of oil, of which two are of the first quality, two of the second, and six of the third. The first quality is colourless, the second yellow, the third black, and the third quality must be refined a second time before it is fit for any purpose except anointing camels against mange, but more bitumen is mixed with it before redistillation. The fuel used for distillation is crude bitumen, and the residue left in the retort is bitumen and is allowed to flow away. Some forty to fifty tins of oil are distilled at Kaiyara daily. The oil is sold at the distillery at the following rates:—	Miles
Per gallon. 1st quality $7\frac{1}{2}d$. 2nd quality $5d$. 3rd quality $3\frac{3}{4}d$.	
'Even the best oil smells strongly of some impurity; the odour resembles that of benzine. 'In the time of Abdul Hamid, Kaiyara belonged to the Sultan's Civil List, for which it was worked by Ibrāhim Pasha. A French expert was brought from Constantinople, and about £T5,000 was spent in experiments, probably borings, but without increasing the yield of the springs. In 1908 there were various competitors for a lease of the springs, including a European firm. The present plant is primitive and the buildings are of little value. There were about 200 tins of refined oil in the store in 1910, of which more than half was of the first quality.'	
Low gravel island in vicinity. Low hills to W. Island in midstream.	$ \begin{array}{r} 136\frac{1}{2} \\ 139 \\ 141 \\ 141\frac{1}{2} \end{array} $
Zāwiyeh, settlement of 'Ajl Jebūr, 50 permanent houses, about 200 tents (1910). River water about here reported to have a sulphurous taste.	1112
have a suinfull taste.	1421



"كتيّب بلاد الرافدين. المجلد !!!. ١٩١٧" [٥٦] (٢٣٢/٧٤)





"كتيّب بلاد الرافدين. المجلد ا||. ١٩١٧ " [٢٦] (٥٧/٣٤)

66 RIVER ROUTES	
Right Bank	Total distan
	Miles
Cliffs within about ½ m. of r. bank.	$145\frac{1}{2}$
Mangabeh village: 25 houses of Jebūr.	146
An island about $\frac{1}{2}$ m. long lies a short way above Manqabeh. The channel follows l. bank.	146½
River here is about 500 yds. broad. Small island.	$\frac{147}{147\frac{1}{2}}$
Tulūl esh-Shauk, mound and village: 30 houses of Jebūr (1910).	148
Above this point to Mosul river is much broken by numerous islands and narrows to an average width of	
200–250 yds. Gravel island. Channel follows l. bank (1910).	149
Makhlat village, about 20 houses of 'Ajl Jebūr, near	$\frac{149\frac{1}{2}}{150}$
upper end of the above-mentioned gravel island. Ferry with small boat a short distance above Makhlat	100
village. Broken water above the ferry.	$150\frac{1}{2}$

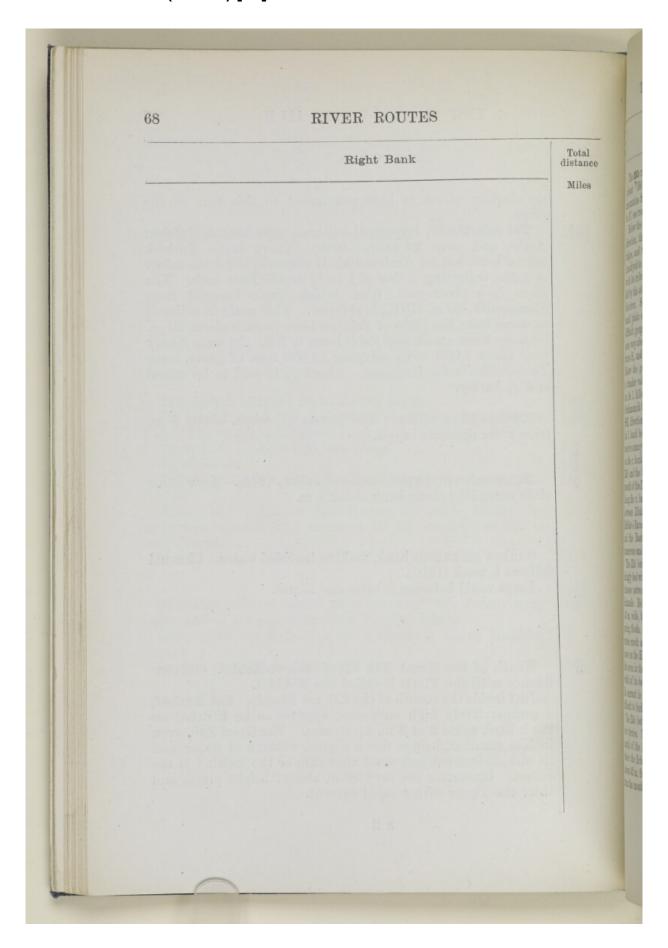


"كتيّب بلاد الرافدين. المجلد ا||. ١٩١٧ " [٢٧] (٢٧/٢٣)

	THE TIGRIS—ROUTE III E 67
Inter- mediate listance	Left Bank
Miles 1½ 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	no steamer seems to have penetrated to this part of the river. Tel esh-Sha'ir, important village. 200 houses of Jebūr Arabs and some 20 shops (1910). There is no Turkish official here, but an Arab sheikh is responsible for the safety of rafts, collecting a due of 1 to \$1\frac{1}{2}\$ mejidis from each. The place is a river port, from which grain brought from Shemamlik, 20 m. ENE., is shipped. This grain is believed to come from the plain of Erbil, which extends about 20 m. between Shemamlik and Erbil town to NE. In an ordinary year about 1,000 rafts, carrying 12,000 tons of grain, leave Tel esh-Sha'ir for Baghdad. About \$\frac{9}{10}\$ is said to be wheat and \$\frac{1}{10}\$ barley. Hasan Tāsh village; 100 houses of Jebūr, about \$\frac{3}{4}\$ m. from river opposite island. Duweizeh village (50 houses of Jebūr, 1910). Low stone cliffs extending along bank about 1 m.
1 1212	Sunken rocks near bank, making troubled water. Channel follows l. bank (1910). Large rapid between l. bank and island.
1/22	Mouth of the Great Zāb River (Zāb el-Kebīr). Its confluence with the Tigris is called the Makhlat. Just inside the mouth of the Zāb are islands. Tel Keshāf , a comparatively high eminence, appears to be situated on the l. bank some 2 or 3 m. up-stream. The Great Zāb, even in late summer, brings down a great volume of water, and its stream is much increased after rain or the melting of the snows. Its waters are very clear, almost bright green, and enter the Tigris with a rapid current.



"كتيّب بلاد الرافدين. المجلد ا||. ١٩١٧ " [٢٨] (٢٣٢/٧٧)





"كتيّب بلاد الرافدين. المجلد !!!. ١٩١٧ [٦٩] (٢٣٢/٧٨)

69 THE TIGRIS—ROUTE III E Left Bank mediate distance Miles The Zāb rises in the hills of Kurdistan in the region of Bāsh Qal'ah (about 7150 m. N. by E.). On the course of the river through the mountains from Bash Qal'ah to the region of Amadiyeh (about 785 m. to N.) see route from Mosul to Van. Below the comparatively open valley of Amadiyeh it flows in a SE. direction, through a fertile, well-wooded district bordered by rocky ridges, and the S. side of the valley is followed by the route from Amadiyeh to Bireh Kafra (or Zibār). But below the junction of the Zāb with its tributary the Rūdbār-i Shīn the valley narrows again, and is left by the above-mentioned route, which turns southward away from the river. Some *11 m. to the SE. of this point the Zāb passes by the small plain of Bireh Kafra or Zibār on its r., and then enters very difficult gorges. About ~19 m., *28 m., below the plain of Zibār, some way above its junction with its tributary the Rowanduz Chai, it turns S., and shortly below Rowanduz takes a general SW. direction. Below the gorge near Berdīn ($^{\circ}65$ m. from the Tigris) it enters a broader valley, and flows between low hills on its r. bank and on its l. hills which steadily decline in height. About 2 m. above Girdamamik ferry (*42 m. from the Tigris) the river bends in a general SSE. direction to the Tigris. The largest tributaries of the Zab join its I. bank between Amadiyeh and Berdin, but in its lower course it receives many affluents on both banks, the most considerable of which on the r. bank are the 'Aqreh Su (about 54 m. above the mouth of the Zāb) and the larger stream of the Ghāzir Su (about *18 m. above the mouth of the Zāb): between these two rivers the Achair Dāgh hills run along the r. bank of the Zāb. The chief tributaries on the l. bank are, between Zibar and the mouth of the river, the Rukuchuk, the Rūdbār-i-Baras-gīr, the Rūdbār-i-Rowanduz, the Darabikush Chai, and the Bastoreh Chai. All these rivers are themselves fed by numerous smaller streams. The Zāb between the Berdīn gorge and the Tigris flows in a broad shingly bed with outcrops of rock here and there, and enclosing a continuous network of islands which break up the river into many channels. Below the mouth of the Ghazir Su this bed appears to be 2-3 m. wide, but its channels are not entirely covered except in the spring floods. The amount of water in the Zāb and its tributaries varies much according to the season: rain and the melting of the snow on the Kurdish hills in spring fill them with a torrential flood. But even in the l. w. season the Zāb contains much water, though the width of its bed in this lower part of its course makes it run shallow. Its current is always swift, so that apparently even in l.w. it is difficult to ford. The Zāb between the Berdīn gorge and its mouth is crossed by four ferries. These are (i) at Quweir (described as 2 hrs. above the mouth of the Zāb; (ii) at Eski Kelek (about 25 m. from the mouth) where the Erbil-Mosul route crosses the Zāb; (iii) at Girdamamik (about 42 m. from the mouth) and at Qandīl (raft ferry) (about 65 m. from the mouth).



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Bold rocky cliffs, called Jebel Mishraq, about 150 ft. high. Sanādīq ('boxes') mounds extend NNW. for about 5 m. Channel followed r. bank in May 1910, past green island, Sunken rocks near banks, making broken water. Gully with Umm el-'Asāfīr, village of Wāwi Jebūr, on both sides. Rock cliffs 20-30 ft. high. Island, dividing the river into two channels, each of which contains a rapid. Upper end of island mentioned above. Sanādīq village (10 houses of Jebūr). The village is called after a series of square-topped mounds (see above, m. 151). There may be other villages called after the Sanādīq mounds. Between this point and Hammām 'Ali the hills recede from the bank. The country to the N. of this point is described as gently undulating and easy, with good grazing-ground in spring. Much of the pasture in this region belongs to the Dā'irat es-Sanāyeh. Wādi Jahannam. Small island of same name immediately above the wadi. Rapid known as 'Awayeh Sakhr Munayyireh. Camps of Wawī and Jehoni (1910). The Wāwi are a section of the Jebūr. Rocky hills, apparently some distance from the r. bank.	Right Bank	Total
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diately above the wadi. Rapid known as 'Awayeh Sakhr Munayyireh. Camps of Wawi and Jehoni (1910). The Wāwi are a section of the Jebūr. Rocky hills, apparently some distance		158
Rapid known as 'Awayeh Sakhr Munayyireh. Camps of Wawī and Jehoni (1910). The Wāwi are a section of the Jebūr. Rocky hills, apparently some distance		$158\frac{1}{4}$
	Rapid known as 'Awayeh Sakhr Munayyireh. Camps of Wawī and Jehoni (1910). The Wāwi are a section of the Jebūr. Rocky hills, apparently some distance	1594



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	THE TIGRIS—ROUTE III E 71
Inter- mediate distance	Left Bank
Miles $\frac{1}{2}$	Lower end of green island. From this point Tel Keshāf is visible at a distance of about 2 m.
1	Upper end of island mentioned immediately above.
1 1	Jā'ifeh, village of Jebūr. 10 houses near river. 100 more said to be less than 1 m. inland.
$\frac{1}{2}$	
1/2	Channel in 1910 followed l. bank past the island mentioned opposite. A rapid in this channel hardly reaches the l. bank in h. w.
1	
11/2	
1/2	Hawi Jat el-Hisān Island. Navigation channel (in 1910)
	followed r. bank. Rapid believed to be formed by an ancient dam in the
1/2	passage between the island and the l. bank. Seyyid Hāmid village, 60 houses of 'Ajl Jebūr and
1/4	Juheish.
	Winners Whise ship is an deleting and haden in anomaly
1	Nimrūd. This plain is undulating and barley is grown. Nimrūd Hill is about 2 m. from the river. ½ m. from the river is Yeni Nimrūd village, 150 houses of Shammatteh and Jebūr.
	Nimrūd Hill forms the SW. corner of the site of the ancient Assyrian city of Calah. On it were the temples and palaces of several Assyrian kings. The hill is now a rect-
	angular plateau running N. and S., the longer side extending nearly 750 yds., the shorter side about 325 yds. The surface of the plateau is uneven, being covered with ruined mounds. At the NW. corner is a conspicuous cone shaped mound cut
	1220 the 2001. Corner is a conspicuous cone-snaped mound cut



"كتيّب بلاد الرافدين. المجلد ا||. ١٩١٧ " [٢٧] (١٨٢٣٤)

72	RIVER ROUTES	
	Right Bank	Total
		Miles
		$161\frac{1}{2}$
h. w., and e appear to be which was 20 miles be able seems forms an o to show w avoided by of 1892 gi 'The chann blocks of ste a drop of ak with shakin was so full Another ch	nich is reported as giving no trouble to rafts in asily passed even in l. w. (This rapid would near the site of the dam called the Zikr el-'Awāz, formerly described as just above 'Uneifeh and low Mosul. The most recent information availto indicate that this ancient dam no longer obstacle, but no evidence could be obtained whether it had been destroyed or was now the present channel of the river. An authority ives the following account of the dam:—tel is 330 yds. wide, the dam being of square one set in cement much worn away. It causes out 2 ft., which rafts can always get over, but get to the skins. In April, however, the river that there was not a trace of it to be felt. I annel runs farther west, which avoids the and at the low season forms a back-water, with	



"كتيّب بلاد الرافدين. المجلد ا||. ١٩١٧ " [٣٧] (٢٨/٢٣٤)

Inter-	T - 0. D 1	
mediate distance	Left Bank	
2½ 1	into by a deep trench, rising 110 ft. above the plain and about 70 ft. above the plateau. The mound is the ruin of a great tower of unburnt brick faced with stone. It was built by Assur-bani-pal. There are other mounds at the SW. and SE. corners of the plateau, the most noticeable being that at the SE. Besides the trenches dug by excavators several deep indentations mark the sides of the hill. These indicate the position of ascents or stairways. The largest of these is on the western side of the hill, about 70 yds. S. of the cone-shaped mound. It is about 20 to 30 yds. broad, and runs for about 150 yds. into the plateau. Other indentations occur in the centre of the southern face of the plateau and in the eastern side. The ground to the N. and NE. of the hill is covered with ruin-mounds. In preference to Asshur (see m. 109 above) Calah was chosen for the centre of the Assyrian Empire by kings who were engaged in war to the N. and NE. and in Northern Mesopotamia and Northern Syria. Eventually its place was taken by Nineveh *20 m. to the N. 'Uneifeh (50 houses of Juheish). Raft-ferry across Tigris. The bank is here low, shelving, and grassy, and rafts bringing visitors to Nimrūd from Mosul usually touch here.	



"كتيّب بلاد الرافدين. المجلد !!!. ١٩١٧ " [٤٧] (٣٢/٨٣)

74 RIVER ROUTES	
Right Bank	Total
6 ft. of water below, and dry at the head. To open a passage for steamers this might be deepened and the body of the water diverted down it, or else the dam removed by dynamite. The bed being loose shingle, the former, probably, would be the quickest if a sufficient number of men were at hand.') Hills close to the r. bank.	Miles
Juheineh village, 100 houses of Jebūr. Ford, passable in l. w. season.	164 165
Salāhiyeh village, 30 houses of Jebūr. Hammām 'Ali baths and villages. One village lies W. by N. at 300 yds. from the landing-place; the other N. by W. at 500 yds. In the latter are seven or eight shops and 20 permanent houses. The place is famous for its hot springs and sulphur baths. The baths lie some way inland near a group of ruin mounds, one of which, called Tel es-Sābi, is about 100 ft. high. There are two sulphur springs, walled in and covered with cupolas; the temperature is said to be 47°-48° C. The water is of a dirty green colour, has a bituminous scum floating on the surface, and smells strongly of sulphur. From the middle of June to middle of September the baths are visited by about 10,000 patients, who come from as far as Zakho in the N., Kirkuk and Suleimāniyeh on the E., and Baghdad on the S. The visitors live in mud huts and temporary wooden shelters. Other springs in the neighbourhood yield petroleum and bitumen. The Baghdad—Mosul route passes through Hammām 'Ali.	$\frac{166}{167\frac{1}{2}}$
All,	1684
Plain near river bank. It belongs to the Dā'irat es-Sanīyeh and is crossed by the Baghdad—Mosul route.	$169\frac{1}{2}$
Islands on both sides of the channel,	171
Qabr el-'Abd village, 13 houses of Jebūr. Island near r. bank.	$171\frac{1}{2}$
Arej village, 70 houses of Jebūr, 1 m. inland. The hills	$172\frac{1}{2}$



"كتيّب بلاد الرافدين. المجلد ا||. ١٩١٧ " [٥٧] (١٨٢٣٤)

Inter-	
mediate distance Miles	Left Bank
Miles	
$\frac{1\frac{1}{2}}{1}$	Selāmiyeh village, 60 houses of Turkomans and Jebūr.
1	
$1\frac{1}{2}$	
3/4	Humeireh Kebīr, ½ m. inland. It belonged (1910) to Abdul Jalīl, of Mosul. There is here an alluvial stretch
11/4	along the l. bank. Humeireh Saghīr, 50 houses of Jebūr.
11/2	Hawi Arsālān village, 15 houses of Jebūr situated on the
4	water's edge. Tel esh-Sheitan. Hillock, with boulders on summit,
1/2	some distance from river. Safij village, 25 houses of Jebūr.
1	Hill called Hamiru , which forms the N. end of a line of
	The content and the first the first the of



"كتيّب بلاد الرافدين. المجلد !!!. ١٩١٧ " [٢٧] (٥٨/٢٣٤)

76	RIVER ROUTES	
	Right Bank	Tot dista
	vere reported in 1910 to be limestone and	Mile
spicuous fort be	ezadeh) village, 50 houses of Jebūr. Con- elonging to the Begs of Mosul. The place Near the river is a small alluvial tract.	174
Āl Bū Juwār	int the hills close in on river. i village, 50 houses of Jebūr, ½ m. inland. hills are not more than 100 ft. high.	175
Kunetera, vi some comparati	llage some distance from river on slope of vely high hills, which from this point run	177
close to the rive	emsiyat, island about ½ m. long.	178
		178
		178
enclosure 60 yds containing hous Begs of Mosul. which here desc Ā1 Bū Seif,	rom river. Seramūn Qasr. This is a walled so by 50, walls 20 ft. high, with two towers and see and outbuildings belonging to the Jalīl It commands the Baghdad—Mosul road, seends into the plain. village W. of the qasr. 60 houses of Jebūr. this point lies cultivation as far as Mosul.	180
Mosul.		185
	ROUTE III F	
THE LESSER	ZĀB FROM ITS MOUTH TO TAKTAK (118
Through Mesopo The details regar descended the probable that formed by shi	ary Report on E. T. A., vol. iii, 1904 (report of 1892); E. I atamia and Kurdistan in Disguise (journey in 1909). ding the channel, &c., are taken from an author eriver by raft from Taktak in l. w. (October) 189 the channel has altered considerably and many of the ingle ledges have shifted their position since that date ered that the depths were taken in the season of lowest	ity 2. Ine rapide. I
The Lesser 2	Zāb has been regarded as possibly naviga	ble



"كتيّب بلاد الرافدين. المجلد ا||. ١٩١٧ " [٧٧] (٢٨/٢٣٤)

	(4)
тн	E TIGRIS & LESSER ZĀB—ROUTES III E, III F 77
Inter- mediate distance	Left Bank
Miles	limestone or sandstone hills near the l. bank. There is sulphur in this neighbourhood. Umm el-Quseir village, 100 houses of Bū Husein, Sunnis.
1	
$1\frac{1}{2}$	
1 ¹ / ₄ ¹ / ₄ 1 ³ / ₄	Lower Shemsiyat village, opposite middle of island. About 100 houses of Jebūr. Upper Shemsiyat village, opposite upper end of island. About 100 houses of Jebūr.
2 1 2 ³ / ₄	Yarimjeh village, 150 houses of Turkomans, Kurds, and Shiah Arabs.
as Tak numer only 2 4-6 ft the ye spread one si oars, 1 differe	ful light-draught steamers in the high-water season as far tak; but this appears very doubtful. In low water, where the rous shingle or rock ledges obstruct the channel, depths of ft., 18 in., or even 1 ft. are found: elsewhere the river has of water in the low season. The increase in depth caused by early floods is considerable, though much of the flood water is over the wide stretch of shingle, which in most places lies on de or on both sides of the main channel. A raft, assisted by moves $3-3\frac{1}{2}$ m. an hour in l. w.; but in this respect also the rice made by the flood is probably great. The breadth of the in this part of its course is generally 200–100 yds. in low water,

"كتيّب بلاد الرافدين. المجلد !!!. ١٩١٧ [٧٨] (٣٢/٨٧)

RIVER ROUTES

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where it flows in a single channel: in flood-time its breadth is generally much greater, and in places may be 1 m. or more.

Before the war the Lesser Zāb was navigated only down-stream by the large rafts called *keleks* (see vol. i, p. 166). A raft in August took three days from Altun Köprü to the River Tigris, this time including stops for the night. In low water it is impossible to run by night.

Above Taktak a sandstone ledge forming a fall of 2 ft., and other

obstructions, are said to make navigation impossible.

From Taktak to its junction with the Tigris the river flows between banks of conglomerate or earth over a bed of shingle or sand. In the river-bed there are very numerous ledges consisting either of sandstone or, less commonly, of conglomerate, which form rapids. Rocks occur in the channel occasionally: these latter would probably be nearly or wholly submerged in high water. The river frequently divides into two or more channels, enclosing flat shingle islands, many of which are probably under water in flood time. Along the sides of the main channel there generally extend broad stretches of shingle which are covered by the floods. The banks frequently rise to bluffs 20–50 ft. in height, which occasionally come close to the edge of the low-water channel.

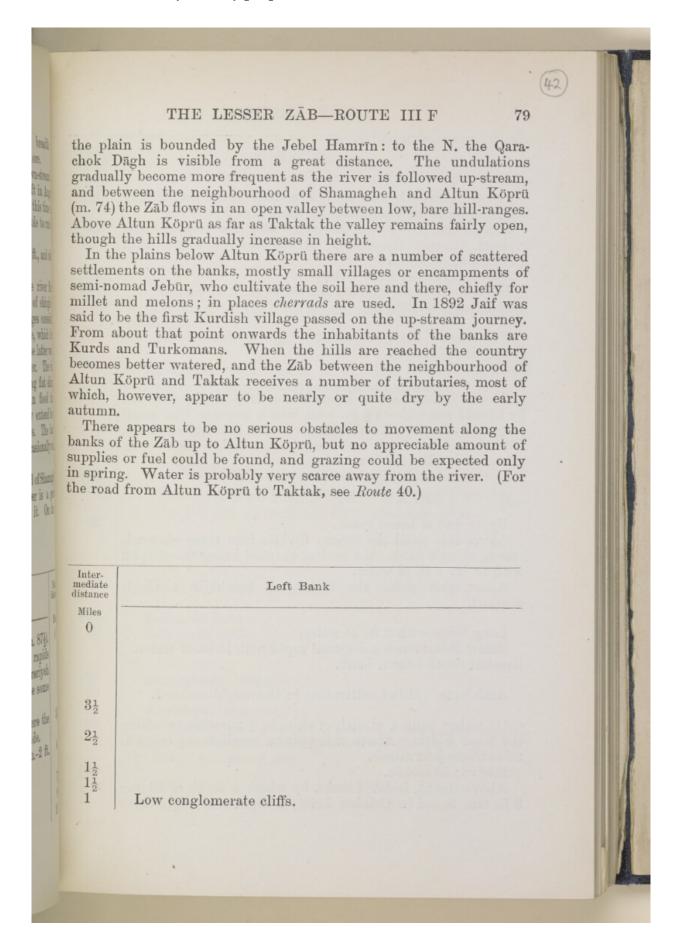
and!

Between the mouth of the $Z\bar{a}b$ and the neighbourhood of Shamagheh (see m. $57\frac{3}{4}$) the country on either side of the river is a gently undulating plain with a few scattered *tels* rising from it. On the S.

Right Bank	Total distance
Mouth of the Lesser Zāb (see Tigris, Route III E, m. 87½). Width of stream here 250 yds. Several small rapids above the deep reach at the mouth. Up to Bisereriyeh (15 m.) scattered camps of Jebūr Arabs, who cultivate some	Miles O
millet. Conglomerate cliffs 40 ft. high on both banks, where the river cuts through a low ridge. Channel 150 yds. wide. Between m. 6 and m. 7 shingle ledges, with 18 in2 ft.	$3\frac{1}{2}$
of water. Rapid, with 18 in. of water. Diagonal rapid, with 2 ft. of water. Shumeit, a halting-place for rafts.	$7\frac{1}{2}$ 9 10



"كتيّب بلاد الرافدين. المجلد !!!. ١٩١٧ [٩٧] (٣٢/٨٨)





"كتيّب بلاد الرافدين. المجلد !!!. ١٩١٧ " [٨٠] (٩٨/٢٣٤)

80 RIVER ROUTES	
Right Bank	Total
Di da la de la mark and a la	Miles
Between m. 11 and m. 12 a deep reach and a long diagonal ledge with a passage in the centre 2 ft. deep. Shingle island between this point and Bisereriyeh. The r. bank channel the better. It contains two ledges with	11 14
18 in.—1 ft. of water.	15
Bisereriyeh, 20 Arab huts. Island. R. bank channel the better (4 ft. of water).	151
Patches of millet.	17
Two small shingle islands. Central channel the best	18
(2 ft. 6 in. of water).	19
Some distance above Ismaniat, a deep reach, followed by a rapid reach about $\frac{1}{2}$ m. long, which contains two small ledges of shingle. Then a shingle island, the better channel following the r. bank and containing a ledge with 18 in. of water. Millet fields on r. bank. Upper end of shingle island mentioned above. Above this point a broad reach 2-3 ft. deep.	21; 24
Upper end of broad reach. Above this point the stream divides into three channels among shingle banks, the central channel being the deepest with 18 in2 ft. of water. About this point the stream is again in a single	25 28
channel.	30
Long ledge with 2 ft. of water. Below Rummaneh a diagonal rapid with 18 in. of water. Greatest depth near r. bank.	32
	33
Arab huts. Millet cultivation in the neighbourhood.	35 36
On either bank a stretch of shingle, \(\frac{3}{4}\) m. wide, marking the flood width. Above this point a small rocky ledge in	38
mid-stream just awash.	
Redva, 10 houses. Above Redva, isolated rocks, by which a depth of 18 in.— 2 ft was found in October 1892; a slight rise would cover	
2 ft. was found in October 1892; a slight rise would cover	



"كتيّب بلاد الرافدين. المجلد ا||. ١٩١٧ " [٨٦] (٣٢/٩٠)

Inter-	THE LESSER ZAB-ROUTE III F 81
mediate distance	Left Bank
Miles 1	
3	
1 1 1 1 1 2	
$1\frac{1}{2}$	Dithakra, 30 mud huts, almost deserted in 1892. Patches of millet.
1	of minet.
1	Ismaniat ruins visible, 1 m. from river. They are
	extensive, and include the remains of a minaret.
$2\frac{3}{4}$ $2\frac{1}{4}$	Willet folds 1 am from 1 land material and
1	Millet fields \(\frac{1}{2}\) m. from l. bank. Tel 'Ali , a flat-topped mound, 400 yds. in diameter, 80 ft. above the plain.
•	
	3521 0.11
3	Millet fields on l. bank, with reed huts of Arabs.
$\frac{2\frac{1}{2}}{1\frac{1}{2}}$	Sadia, 30 huts. Low earth cliffs.
1 2	Rummāneh, 30 houses.
1 2 1 2	'Areisheh, 80 houses.
4	Tel el-Mahūd, 2 m. from l. bank. A flat-topped mound, 600 yds. in diameter, rising 100 ft. above the plain; probably
1/2	the site of an ancient city.
MES. III	F



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ " [٢٨] (١٩٢/٣)

82 RIVER ROUTES	
Right Bank	Total
this obstruction. A passage between the rocks, about 30 ft. wide, could be found without difficulty.	Miles
Above the rocks is the ledge mentioned opposite. Some other ledges of conglomerate in the channel, broken into	39
isolated patches.	391
Millet fields with water-lifts (cherrads).	413
Two long diagonal ledges with 18 in. of water. Jaif (the first Kurd village to be found in an up-stream	43 44
journey in 1892) lies 1 m. off among undulations. The reach here reported deep and easy. Earth cliffs 80 ft. high at a sharp turn of the river. Above the turn a rapid with	45
18 in. of water.	477
About this point the reaches were reported deep, with easy	47 49
current. Tel Huleileh, 40 houses, 2 m. from r. bank, near a flat-	
topped mound. Several small ledges with 18 in. of water.	50 51
Diagonal ledge with 1 ft. of water. Channel by l.	52
Some firewood obtainable from shrubs by the bank.	
The Qarachok Dāgh is seen about 10 m. to NW.	55
Dircheh, 10 houses. Above this point a shingle island. Deep channel by	
l. bank. Upper end of shingle island.	56
Shamagheh , 80 houses, on a spur. A rounded ridge is visible 2 m. from river, rising 100 ft. above the plain.	57
Above the ledge mentioned opposite is a long diagonal	
ledge, over which the deepest channel was found in the centre (18 in. of water).	
· ·	59
Shingle marking the flood width is 1/4 m. wide, and the	e 59
channel 120 yds. Above a slow reach 5 ft. deep is a sharp turn, the beginning	g 62



"كتيّب بلاد الرافدين. المجلد ا||. ١٩١٧ " [٨٨] (٢٩٢/٣٤)

lediate Left Bank		THE LESSER ZĀB—ROUTE III F 83
Ledge (of conglomerate?) jutting out from 1. bank, and reaching nearly half-way across stream. Mahūd, small village. Millet fields with water-lifts. Botmal, 30 houses, 1½ m. from 1. bank. Low cliffs. Mijenna (50 houses) with some undulations. Mella, 1 m. from river, 60 houses, the residence of a Mudir. Channel by 1. bank. Numeil, 30 houses. Channel by 1. bank past shingle island, above Numeil.	Inter- mediate distance	
reaching nearly half-way across stream. Mahūd, small village. Millet fields with water-lifts. Botmal, 30 houses, 1½ m. from l. bank. Low cliffs. Mijenna (50 houses) with some undulations. Mella, 1 m. from river, 60 houses, the residence of a Mudir. Channel by l. bank. Numeil, 30 houses. Channel by l. bank past shingle island, above Numeil.	Miles	
1 Low cliffs. 13/4 Mijenna (50 houses) with some undulations. 1 Mella, 1 m. from river, 60 houses, the residence of a Mudir. Channel by l. bank. 21/2 Numeil, 30 houses. Channel by l. bank past shingle island, above Numeil.	1/2	Ledge (of conglomerate?) jutting out from l. bank, and reaching nearly half-way across stream.
1 Mijenna (50 houses) with some undulations. Mella, 1 m. from river, 60 houses, the residence of a Mudir. Channel by l. bank. Numeil, 30 houses. Channel by l. bank past shingle island, above Numeil.	$2\frac{1}{4}$ $1\frac{1}{4}$	Millet fields with water-lifts.
Mijenna (50 houses) with some undulations. Mella, 1 m. from river, 60 houses, the residence of a Mudir. Channel by l. bank. Numeil, 30 houses. Channel by l. bank past shingle island, above Numeil.	1	Low cliffs.
1 1½ 2 Mella, 1 m. from river, 60 houses, the residence of a Mudir. Channel by l. bank. 2½ Numeil, 30 houses. Channel by l. bank past shingle island, above Numeil.	11/4	
Mella, 1 m. from river, 60 houses, the residence of a Mudir. Channel by l. bank. Numeil, 30 houses. Channel by l. bank past shingle island, above Numeil.	$\frac{1\frac{3}{4}}{2}$	Mijenna (50 houses) with some undulations.
Mella, 1 m. from river, 60 houses, the residence of a Mudir. Channel by l. bank. Numeil, 30 houses. Channel by l. bank past shingle island, above Numeil.		
Numeil, 30 houses. Channel by l. bank past shingle island, above Numeil.		a Mudir.
Channel by l. bank past shingle island, above Numeil.	14	Channel by l. bank.
1½ 1¼	21/2	Numeil, 30 houses. Channel by l. bank past shingle island, above Numeil.
	1 ¹ / ₄ 1 ¹ / ₄	
Some distance above Shamagheh is a ledge with 18 in. of water off l. bank.		Some distance above Shamagheh is a ledge with 18 in. of water off l. bank.
Emrina, 60 houses, 1 m. from river. $\frac{3}{4}$ m. N. is a white domed shrine (gumbet), a prominent landmark. Sheikh el-Abyadh, 80 houses, $\frac{1}{4}$ m. away.		domed shrine (gumbet), a prominent landmark.
4 In away.	21/4	and all all y totals, or nouses, 4 m. away.



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٤٨] (٣٢/٩٣)

	84 RIVER ROUTES	
	Right Bank	Total distance
	of a loop to SE. Hills about 150 ft. high, broken by ravines, now begin to approach the river. To the E. is the Gurgur	Miles
	Dāgh or Jebel Gurgur. Malhahwali, 15 houses on a cliff. A group of isolated rocks to be avoided, 10 yds. from r. bank.	63
	Above the loop (see m. 62) a ledge with 2 ft. of water next r. bank.	64
	Another sharp loop to SE., about 1 ¹ / ₄ m. deep. Channel 5 ft. deep, current slow.	651
	Saikun, 20 houses, on some mounds $\frac{1}{2}$ m. from river. Stream running in three channels between shingle islands.	68
	Channel by l. bank. Stream again in a single channel, apparently flowing	69
	about ENEWSW. Ledge with 2 ft. of water.	70
-	Ledge with 2-3 ft. of water. River-flat ½ m. wide,	71
	channel 120 yds.	$71\frac{1}{2}$
	Bend in river, above which it flows from the N. (or perhaps	72
	NNW.) Shingle ledge (2 ft. of water) at bend. Sherbeh, 15 houses, on some low cliffs. Sharp bend, above which river flows apparently from about NNE. past the island on which Altun Köprü stands.	$72\frac{3}{4}$ $73\frac{1}{2}$
	The western channel is dry in the low season; it is spanned by a masonry bridge of three arches, each of about 20 ft. span. Altun Köprü.	74
	ELANCE AND PARTY.	
	Ledge with rapid 2 ft. deep.	75 76½



"كتيّب بلاد الرافدين. المجلد ا||. ١٩١٧ " [٥٨] (١٩٢/٩٤)

Inter-	
mediate distance	Left Bank
Miles	
1	
1	
11/2	
$2\frac{1}{2}$	Long diagonal ledge, with 2 ft. of water, next l. bank. Channel by l. bank. Ledge, with 18 in. of water, near the
1	centre of the channel.
1	
	Chair, 20 houses, 1 m. from river, in a small basin. Beyond Chair the Gurgur Dāgh rises gradually from the
1	plain.
1 2	Gurgur Su (or Mayar Dereh), a large stream, flows in
	from SE.
1/2	
3434	
1	
1/2	In the eastern channel, about 100 yds. below the bridge, an outcrop of conglomerate rock was reported as narrowing
	the lairway to about 50 ft. in I.w.: it would be broader in
	a high river. The channel was reported deep, with a gentle current. A toll used to be levied here on passing keleks.
	The bridge over the E. channel is of brick and stone, and has one high, pointed arch of about 60 ft. span, with three
	minor arches at the side. The main arch gives 40 ft. clear space underneath at l. w.
1 1½	
-	Qārā Beg (also called Muterbeh by raftsmen). Altun Köprü is visible up to this point.



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٨٦] (٥٩/٢٣٤)

86 RIVER ROUTES	
Right Bank	Total distance
	Miles
Bend which drives stream against a cliff on the r., causing a rush of water at the turn, 3-4 ft. deep in low water. Shingle ledge at the bend. Raftsmen in October 1892 got on to the shingle and held the painter while the raft swung round.	78½
Seba Gerani, 20 houses.	79
Chadcherin, 15 houses, ½ m. away from river. Above this point rapids are more numerous and reaches generally shallower than in the neighbourhood of Altun Köprü.	80 81
Valley-flat in this neighbourhood about $\frac{1}{4}$ m. broad, between conglomerate cliffs 30 ft. high. Higher up it broadens to about $\frac{3}{4}$ m. Hereabouts is an island past which	82
the r. bank channel is the deeper (2 ft. of water). Two small ledges (1 ft.–18 in. of water). In 1892 there was here a village of Chōgha Hasan, a	$83\frac{1}{2}$ 84
Girdi Kurd, about 1 m. from river. It consisted of 30 huts.	85
Khurkhur village, 80 houses. River-flat of shingle	863
3/4 m. broad, covered only in flood. Sharp bend, at which is a ledge with 18 in. of water.	87
Between m. 89 and 90 stream divided into various smaller channels, besides the main channel, which had 2 ft. of water in the low season and was 50 yds. broad. Tamarisk and artemisia plentiful on the banks. Some distance above the point where these minor channels took off there was a large island. The r. bank channel was followed over some ledges having 18 in.—2 ft. of water.	89
Upper end of large island mentioned above.	$91\frac{1}{2}$
Sardik, 40 houses, on a knoll. Shallow ledges (18 in2 ft. of water extending for 400 yds.)	92 92 ³ / ₄
Channel narrowed to 50 yds.; depth, 6 ft.	941
Channel broader again. Shingle ledge with 1 ft. of water, and $\frac{1}{2}$ m. farther on another ledge with 18 in.	95 95 ₂
Sheitāneh, 20 houses, close to r. bank. Deep reach here. Shingly island. R. bank channel the deeper.	$96\frac{3}{4}$ $97\frac{1}{2}$



"كتيّب بلاد الرافدين. المجلد ا||. ١٩١٧ " [٨٧] (٣٢/٩٦)

Inter-	Control of the Contro
ediate	Left Bank
Miles	
2	
1/2	
$1 \\ 1$	
1	Shems Serdalu.
1	
13	
11/2 1/2	
	71 1.11.1.0
1	Dermanau villages on rising ground on l. bank. One is at m. 85, the other about m. 86. The channel here formed
	an easy reach 6-8 ft. deep, 100 yds. broad.
13/4	
1	
24	
01	
1	Qara Sālim, 80 houses.
2 <u>1</u> 1 2 3 4	Gravelly ridges rise to 200 ft. 2 m. from river.
134 12 12	
1 2	
5 2	
11/4 3/4	



"كتيّب بلاد الرافدين. المجلد !!!. ۱۹۱۷ [۸۸] (۲۳۲/۹۷)

Right Bank	Total
Two long diagonal ledges (1 ft18 in. of water). Shaughir (50 houses) on r. bank ½ m. distant. (On l. bank	Miles 98 991 100
according to W.O. Map 35). Country becomes more hilly, and ravines are more numerous above this point. Shingle ledge, 20 yds. broad, with 1 ft. of water.	101½
Ground about 100 ft. above river, with light gravelly soil, cut up by ravines. Sakrikan village, 1 m. from river, 80 huts thatched with reeds. Two ledges, with 15–18 in. of water, in the river opposite Sakrikan. Above the mouth of l. bank tributary the river made a sharp northerly loop. Gravelly undulations to N.	
Upper end of loop. Zazi Su and streams from Köi Sanjaq join on the r. bank. Above the mouth of the Zazi Su a long rapid with 18 in2 ft. of water. Upper end of long rapid.	105
A long diagonal ledge with 1 ft. 10 in. of water, deepest next r. bank. Between this point and m. 107½ two shingle ledges with 1 ft. 10 in2 ft. of water. Between these ledges were found broad, slow reaches, 4-5 ft. deep, and easy to navigate. Khān-i-Leileh, large Kurdish village among orchards and date gardens. Behind it rises the Khān-i-Leileh Dāgh, a bare line of hills, about 300 ft. above the river, running NW. Numerous springs and streams irrigate the gardens. Sharp loop to SE. At the turn a short shingle ledge	108
(18 in. of water). Shingle island: channel by l. bank. From marks on banks a rise of 12–14 ft. appeared to take place in flood. Shingle ledge, with 1 ft. 10 in.–2 ft. of water over it. River bends NW.	$109\frac{1}{2}$ 110 111
Upper end of loop. Tamarisk and artemisia shrubs on the shingle. In the next 1½ m, the mouths of several ravines are passed. Khān-i-Leileh Dāgh still on r. bank. Above this point river apparently made a loop to SE.	112½



"كتيّب بلاد الرافدين. المجلد ا||. ١٩١٧ " [٩٨] (٨٩/٢٣٤)

Inter-	
mediate distance	Left Bank
Miles 1 2 1 4 3 4 4	Seikāni , 50 houses, $1\frac{1}{2}$ m. from river, in a basin among hills.
$1\frac{1}{2}$ $\frac{1}{2}$	Khāneh (Bel Khāneh), 1½ m. to r., in a basin among low hills.
1	Mouth of large stream: bed nearly dry in October, 1892. Two m. up it is Hamdun , among a clump of trees. Kirkuk lies 26 m. away to SSW., and Chemchemal 31 m. to SE., across open and easy country.
$1\frac{1}{2}$	Shingle on l. bank in loop to N.
$1 \\ \frac{\frac{1}{2}}{\frac{1}{2}}$	Mouth of dry ravine. Mazaikheh, $1\frac{1}{2}$ m. from river, in a cultivated basin among bare hills.
11/2	
1/2	
1	Channel by I. bank, with 2 ft. of water, past island.
$1 \\ 1 \\ 1 \\ \frac{1}{2}$	Zornasur, 30 houses. Earth cliffs, 50 ft. high, on bank.
2	
$1\frac{1}{2}$	



"كتيّب بلاد الرافدين. المجلد ا||. ١٩١٧ " [٩٠] (٩٩٢٣٤)

90 RIVER ROUTES		
Right Bank	Total distance	
Sharp turn. Shingle ledge with 18 in. of water. Gravelly cliffs on r. bank. Diagonal ledge of shingle, with a channel next r. bank, having 18 in. of water. Small shingle island. Channel, 40 yds. wide, by r. bank. Taktak.	$114\frac{1}{2}$ 115 $115\frac{3}{4}$ 117 118	

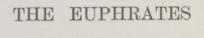


"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٩١] (٢٣٢/١٠٠)

	THE LESSER ZĀB—ROUTE III F	91	
Inter- mediate distance	Left Bank		
Miles	Jezīleh, 20 Kurd houses on a cliff. Cliffs on left.		
1 ¹ / ₄			







Authorities:—Dobbs, Report on the Navigation of the Euphrates from Birijik to Fellüjeh (1903); Sarre and Herzfeld, Archäologische Reise im Euphrat- und Tigris-Gebiet (a journey of 1908); the authorities cited for Routes 46 and 47; other sources of information.

GENERAL INTRODUCTION ON THE RIVER BETWEEN FELLUJEH AND MESKENEH

Details must be sought in the river itinerary. The evidence there given, however, does not represent the l. w. conditions, the journey on the report of which they are based (Dobbs) having been undertaken in January, when the Euphrates was swollen by unusually heavy winter rains, the effect of which was observable as far as Deir-ez-Zor. From there to Fellūjeh the conditions may be regarded as normal for the winter months (during Dobbs's journey the river in this section was somewhat below normal winter level). The narrowest part of the river is in the Halebi Chelebi defile (see Route IV H, m. 47).

The River.—The breadth of the river on this stretch is generally 200-500 yds. In Jan., 1903, when the river above Deir was higher than is usual at this time of year, depths were found ranging from 4 to 12 ft. The current varied from 2 m.p.h. to 12 m.p.h. (at Fātihat: Route IV F, m. $58\frac{1}{2}$). In several places it ran at 7 m. an hour in two or more channels enclosing low islands. Above Hīt the river contains a number of rapids caused by ledges of rock or broken masonry bridges. Banks of shingle or sand are also found. In the l. w. season there are probably fords at several places on this part of the river, but there is no recent information with regard to their position. The bed from Fellūjeh to Hīt is alluvial soil. Above Hīt it is shingle, sand, or mud, with outcrops of rock up to El-Qa'im.

Navigation.—It was reported in 1903 that in the months of April, May, June, and July, when the river is full, the descent of the river



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٩٣] (٢٣٢/١٠٢)

THE EUPHRATES

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would be easy for a light-draught steamer, and could be accomplished at a very great speed. The swiftness of the current at this time of the year would, however, make the upward journey very slow, and it would be necessary for the steamer to be capable of a continuous speed of not less than 12 knots per hour in order to make head against the rapid stretch between Hīt and Anah. Steamer-navigation, it was stated, would be too risky to be profitable during the l.-w. months of August, September, October, and November. The report adds that in the months of December, January, February, and March both the upward and downward journey of even a light-draught steamer would be attended with considerable risk unless engineering works were carried out in the stretches between Hadiseh (Route IV F, m. 65) and Alūs (Route IV F, m. $55\frac{1}{2}$), in the passage from Kerableh Island (Route IV G, m. 2) to below Anah (Route IV F, m. 117), in the shallow rapids at Abu Qubā'ī or Funsa (Route IV H. m. 120), and below the islands of El-Hammām (Route IV H, m. $130\frac{1}{2}$). In the first two of the above-mentioned places the artificial channel excavated by the Turkish authorities in 1870 was in 1903 still almost intact; and it was believed that very heavy expense would not be necessary. Some apparatus would, however, have to be erected for the purpose of warping the steamer up over the ledge at Fātihat Khidhr Ilyās (Route IV F, m. 58½). From below Anah to above Kerableh Island a tow-path would probably have to be constructed on the l. side of the river. In the neighbourhood of Abu Qubā'ī and El-Hammām, the placing of four or five dams part of the way across the river-bed would sufficiently deepen the channel.

The report of 1903 says that the best boatmen of Anah are so intimately acquainted with the bed of the river above Hīt that it would be advisable to secure the services of one of them as pilot for

a steamer plying on the river.

On the upward journey it might be possible for a steamer to tow one or two flat-bottomed boats. On the journey down-stream towing would be dangerous, but a barge might be lashed to the side of a steamer.

Practically all the present traffic is down-stream, at least as far as Hīt, and is carried on chiefly by the flat-bottomed boats, known as shakhtūrs (see vol. i, p. 167), built only at Birijik. Even the attempt made in 1911 to establish a service of motor-boats (65 ft. long with about $2\frac{1}{2}$ ft. draught) on the river above Fellūjeh had to be given up owing to difficulties in navigation. (See vol. i, p. 171.) There are ferries at the chief stopping-places on the river.

The river has been used in increasing degree for the transport of guns, ammunition, and stores, and small detachments of troops from

BE

INI I

"كتيّب بلاد الرافدين. المجلد !!!. ١٩١٧" [٩٤] (٣٢/١٠٣)

94

THE EUPHRATES

Jerablūs to Fellūjeh during the present war. The Germans claim to have improved the navigation. There is reliable evidence that

special craft have been constructed (compare p. 396).

Banks.—Between Fellujeh and Hit (Route IV E) the l. bank appears to be stony desert, with little or no cultivation. On the r. bank there is cultivation by water-lifts (cherrads). Above Hit, as far as Nāhiyeh, cherrads are replaced by naurs (water-wheels), but the strip of cultivation is very narrow and no grain is available for export. Between Nahiyeh and Abu Kemal both banks are practically uninhabited, and either bare or covered only by tamarisk scrub. Between Abu Kemāl and Deir ez-Zor (Route IV G, m. 192) there is almost continuous cultivation by means of cherrads, but the cultivated strip in no case reaches more than \(\frac{1}{4} \) m. from the bank. Between Deir ez-Zor and Sabkhah cultivation to 1/4 m. from the river on either side is carried on intermittently by cherrads. In 1903 no grain available for export was produced in this region. Sabkhah to Abu Hureireh there is hardly any cultivation except in the delta of the Belikh on the l. bank in the neighbourhood of Raqqah. The low hills on the bank are of marl, and the valley is covered with a dense growth of tamarisk, bramble, and liquorice. Above Abu Hureireh there is a fertile belt 1-3 m. broad, bordered by marl or gypsum hills, which produces wheat and barley without irrigation. See also Routes 46, 47 for the river valley.

The terms Shāmiyeh (esh-Sham = Damascus) and Jezīreh are

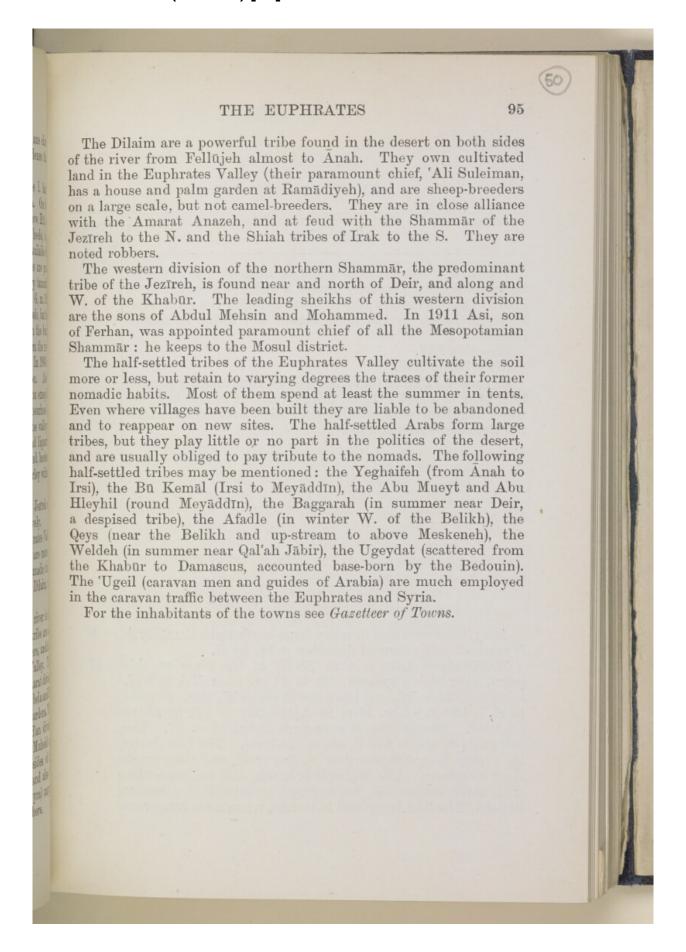
used by the inhabitants for right and left bank respectively.

Inhabitants.—The permanent inhabitants of the Euphrates Valley are mainly either fellahīn or semi-settled Arabs, who are more or less liable to be raided or blackmailed by the great nomadic tribes of the desert, the principal of which are the Anazeh, Dilaim, and Shammār.

The predominant tribe in the Syrian Desert W. of the river is that of the Anazeh, though some of the subdivisions of that tribe are also found on the l. bank. The Anazeh are large camel-breeders, and their sheikhs own a certain amount of land in the Euphrates Valley. They have a constant antagonism to the Shammār. The Amarat division of the Anazeh are found W. of the Euphrates between Kerbela and Htt, where their paramount chief, Ibn Hadhdhal, owns palm gardens. They are generally near the Euphrates in summer. The Fed'an division of the Anazeh (paramount chiefs, the pan-Arab Ibn Muheid and Ibn Geshirsh) ranges from Deir to Aleppo on both sides of the Euphrates and up the Khabūr Valley. The Amarat and also the Sba' division of the Anazeh (from the region of Palmyra) may be driven into the Fed'an country by lack of pasture elsewhere.



"كتيّب بلاد الرافدين. المجلد !!!. ١٩١٧ [٥٩] (٤٣٢/١٠٤)





"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٩٦] (٥٠١/٣٤)

96 RIVER ROUTES	
ROUTE IV E	
FELLŪJEH—HĪT (79½ M.)	
Right Bank.	Total
Width of river up to Hit varies from 490 to 270 yds., the current being generally almost 2 miles (3 kilometres) an hour. Depth averages 12 ft. Near Fellujeh the river overflows its banks in the flood season and forms numerous islands.	Miles 0
Direction SW. River bends NW. Hereabouts Fed 'ān Canal takes off: it runs roughly parallel to r. bank at about 1-1½ m. from river. It is regulated by a new regulator with opening 8 ft. wide, over which passes the Baghdad—Aleppo road.	3 7
	8
The river now winds in many large bends until Ramādiyeh is reached. The general direction is W. by N. Habbāniyeh Lake is 4 m. SSW. of the river at this	9
point, over rising ground. It is 11 m. from NE. to SW. and 7 from E. to W., and has a marsh on its W. side. Normal level is 120 ft.; h.w. level in April–May is 131 ft. above sea-level. Rising ground surrounds it except on W. The hill at its S. end is 250 ft. above sea-level. The lake draws its supply from the overflow of the river, and rises when river overflows. The water is brackish, and (in connexion with river works) has been found unsuitable for engine	1.



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٩٧] (٢٣٢/١٠٦)

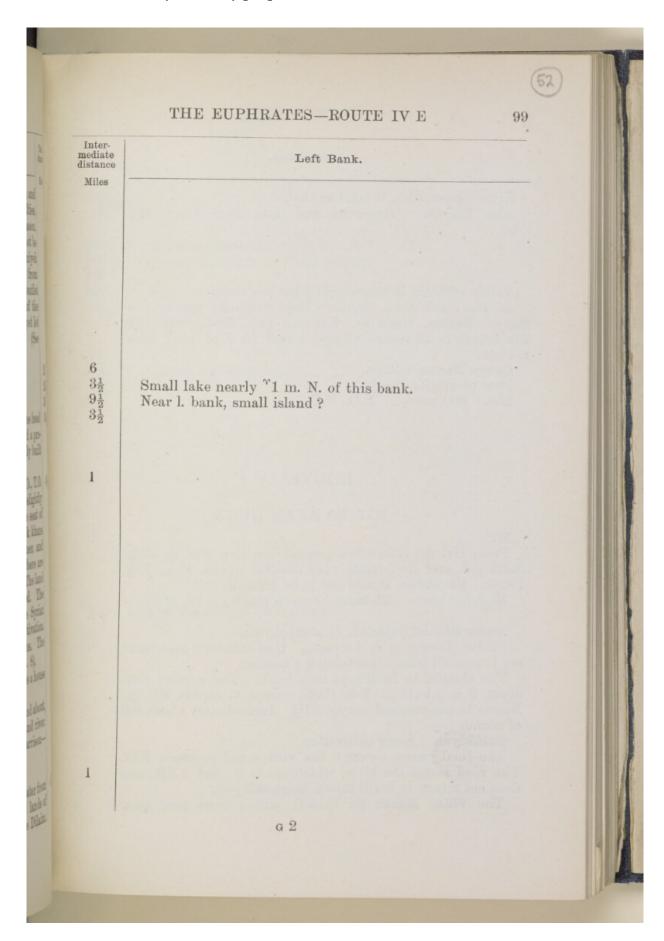
	THE FUDURATURE DOLLER THE
	THE EUPHRATES—ROUTE IV E 97
Inter- mediate	
distance	Left Bank.
Miles	Fellüjeh. Bridge of boats.
	January of Nouris.
	the latest the second section will be a second section of the section of
3	
4	'Ambar, ruins on W. slope of rising ground 2 m. from
	river.
1	Saqlāwiyeh village, apparently at some distance from river. It lies on the Fellüjeh—Hit track and on the
	Saglawiyen Canal, over which is a ferry, reported in 1896
	to be $\frac{1}{2}$ m. beyond the village. The Saqläwiyeh Canal used to take water from the Euphrates to the Tigris at Baghdad,
	but was closed to protect Baghdad from floods. Wheat was
	seen growing in its bed in Jan. 1905, but it appears to have been reopened (see Appendix). After a short course NNW.,
	N., and N.E., its general direction is easterly to Lake' A
	78 m. from Baghdad. According to Willcocks's map, based on surveys 1909–11, the canal has a head near Saqlāwiyeh
4	village, and another about 6 m. by river up-stream.
1	
8	I are interested to the property of the little to the later of the
	The same of the sa
	And the Brit Levil and Friends
MES. III	G



"كتيّب بلاد الرافدين. المجلد اال. ۱۹۱۷ [۹۸] (۲۲/۱۰۷)



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٩٩] (٣٢/١٠٨)





"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [١٠٠] (٣٢/١٠٩)

Right Bank. River makes a big U bend to the S. Abu Rayāt. The road and T.L. here touch the	Total distance
wi wow	Miles 56 60
Valley of Wādi Mohammadi joins the river. In the reach from Banān village (opposite) upwards to Qarya Banān , there are bitumen pits, El-Lata if and Ma murch (with ruined village), about ~4–5 m. back from	
r. bank. Qarya Banān village. Date plantations begin. Hīt. 600 houses. P.O., T.O.	$76\frac{1}{2} \\ 78 \\ 79\frac{1}{2}$
Hīt. From Hīt the river has a general direction NW. as far a Salāhiyeh, and the stream runs about 6 m.p.h. (JanFel 1903). Navigation is said not to be difficult. Moslem shrine. El-Merj bitumen pits 3 m. W. of it. Imām Sheikh Jelādeh, Moslem shrine. Filuwi Island, in mid-stream. One authority says the are two small islands containing a hamlet. The channel in 1903 kept to r. bank. The current run about 2 m.p.h. (JanFeb. 1903), except at rapids, till the Nawās Is. are reached (see m. 33½). Immediately above to fislands is— Salāhiyeh. Some cultivation. The road passes through the village and proceeds NY. The road leaves the river, which bends N. and NNE., at does not return to it till Khān Baghdādiyeh.	$rac{1^{rac{1}{2}}}{3}$ $rac{4^{rac{1}{2}}}{6^{rac{1}{2}}}$ de le il



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [١٠١] (٣٢/١١٠)

		THE EUPHRATES—ROUTES IV E, IV F 101
ida ida	Intermediate distance	Left Bank.
斯勒 例 龍鶴 衛 智	$\begin{array}{c} \text{Miles} \\ 14\frac{1}{2} \\ 4 \end{array}$	
64 64	$\frac{1\frac{1}{2}}{7}$ $\frac{1}{1}$	Qal'at et-Tumādi. Alt. 170 ft. Qal'ah Zawiyeh fort and village.
- 100 mm	1 4 ¹ / ₂	Bas village. Banān village.
N N	11/2	Qal'ah Dhawāb fort.
N.	$1\frac{1}{2} \\ 1\frac{1}{2} \\ 1\frac{1}{2}$	
	0	
	$\begin{array}{c} 1\frac{1}{2} \\ 1\frac{1}{2} \\ 1\frac{1}{2} \\ 2 \end{array}$	Qasr Sa'di, fort on the river.
e i	2	
ns he il		
W.		
51		



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ " [١٠٢] (١١١/٣٣٤)

102 RIVER ROUTES	
Right Bank	Total distance
Khubbāz, joins the river. The water is bitter, as is another small stream 10 min. ride farther on, at which animals will not drink.	Miles
Qasr Beit Aiyub, fort on river. Its position on a promontory would appear to command the reach below to the top of Filuwi Island.	$9\frac{1}{2}$
Imām Sheikh Sa'di, Moslem shrine. Munākhireh Qasr, fort.	$ \begin{array}{c} 10\frac{1}{2} \\ 11\frac{1}{2} \\ 12\frac{1}{2} \end{array} $
Beit Sa'ādeh, village. El-Qasr, fort.	$14\frac{1}{2}$ $15\frac{1}{2}$ 16
Jerīfeh Island, $1\frac{1}{2}$ m. long and very narrow, near r. bank.	20 21
El-'Aliyeh, small village. Opposite here are bad rapids between two naurs, with a rock in the middle.	27 28
Gharrāf or Elkaraf Island. Baghdādiyeh village, standing a little back from the	$ 30 $ $ 31\frac{1}{2} $ $ 32\frac{1}{2} $
river. At Baghdādiyeh Fahd Bey of the Amarāt owns some property and has planted a palm garden. Nawās Islands, very small, near r. bank. In JanFeb.	331/2
1903 the speed of the stream, which had been about 2 m.p.h., increased to 4 m.p.h.	0.4
Khān Baghdādiyeh. A khan was being built here in 1908. There is no village, the inhabitants dwelling in caves in the precipitous sides (200 ft.) of a gorge which runs back into the plateau. This cave-dwelling is a marked feature in the gorges of the bluffs from here up to Hadīseh; no houses	34 37
are seen on the bluffs. Jibbeh fort. Zaptieh post near the river, E. of road. See	38 40½
p. 17 on route to Damascus Jibbeh Island, with large village near S. end. Ferry. From here up to Hadīseh a few palm gardens are passed. Past the island the channel went to the r. in 1903.	41½



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [١٠٣] (٢٢/١١٢)

	THE EUPHRATES—ROUTE IV F 103
Inter- mediate distance	Left Bank
Miles	
3	
1 1	Jebel Hajar ed-Dibs, about 2 m. from bank.
$ \begin{array}{c} 1\\1\\2\\1\\4\\\end{array} $	Jebel Hajar ed-Dowāliyeh, about $3\frac{1}{2}$ m. E. of bank. Qasr Madrūk, fort.
	Tabal Tairs No NTD C
1 6 1	Jebel Jaʿāl, [~] 2 m. NE. from river. Abu Ghānim, a small island near l. bank. Jebel Murjifeh, a broad promontory of the desert plateau
2	round which the river winds. Qasr Māliyeh, fort.
$1^{\frac{1}{2}}$	Channel in 1903 followed l. bank past Gharrāf Island.
1	
3 2	Qasr et-Tā'im, fort.
1	Madaniyeh, village.
$\frac{2\frac{1}{2}}{1}$	Imām Ibn Hasan, Moslem shrine.
1	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [١٠٤] (٢٢/١١٣)

104	RIVER ROUTES	
	Right Bank	Total
		Miles
current is rapid an near right-hand pie	are remains of a ruined bridge, where the nd the only passage is on the extreme r. er. Haurān. This is usually dry, but has	$45\frac{1}{2}$
violent floods. The Qal'ah Suwān fo	re is grazing along it in spring. See p. 17. ort is just above the mouth.	4
bank.	near r. bank. Channel in 1903 kept to r.	46
this is a bad rapid	uin of a bridge-pier in mid-stream; above caused by a naur. For 2 m. above this	$46\frac{1}{2}$ 47
	slow (JanFeb. 1903). h, fort. Channel in 1903 hereabouts (See opposite.)	48½
	marie met in the second of the second	
Dowaliyeh Islan	d, small, near r. bank.	$49\frac{1}{2}$ $51\frac{1}{2}$
	and and large village. The island lies at	$55\frac{1}{2}$
	nd; smaller islands above it. (There are all marked on the map between Alūs and	$56\frac{1}{2}$
Haji Ísland, ne island and the r. ba rock.	ear r. bank. The passage between the ank is blocked to navigation by a ledge of	58½
I. This ledge runs bed of the river, a difficult. In order	Ilyās, ledge of rock, 400 yds. above Haji obliquely from N. to S. across the whole making navigation on this stretch very to deepen the water on the r. side of the	
runs out from the l. Haji I. the channel	overnment built a rectangular dam which bank just above the ledge. In 1903 above left the l. bank and bent towards mid- er the ledge close to the extremity of the	
distance of 10 to 20 end of the artificial	I then turned to I. bank and kept at a yds. from the shore as far as the upper channel near the bottom of Hadiseh I. iish Government constructed the channel	
	l at m. $48\frac{1}{2}$, to assist the navigation of the	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [١٠٥] (٢٣٢/١١٤)

		THE EUPHRATES—ROUTE IV F 105
The No.	Inter media distan Miles	Left Bank
4)	4	
4)	$\frac{1}{2}$	
44	$\frac{1}{2}$	
	1 1 2	navigation channel, extending up to Hadīseh, on l. bank, with a current of 7 m.p.h. (Jan.–Feb. 1903). (See Fātihat Khidhr Ilyās, m. 58½, below.)
	2	Sheikh Hasan Island.
50	4	
509	1	
56] 6 58]	2	Channel in 1903 followed l. bank past Haji I., and then passed to mid-stream. See under Fātihat Khidhr Ilyās, opposite.
e e h		
e e a r		Channel in 1903 returned to l. bank. See opposite.
el e		

"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [١٠٦] (١٠٢/١٥)

Right Bank	Total distance
river by steamers for a distance of 12 m. Its upper end is just below the island of Hadīseh, some 9 miles above Alūs. The current at the ledge of Fātihat Khidhr Ilyās races down at 12 m.p.h. with a fall of 1 ft. in 4 yds. (JanFeb. 1903). Consequently powerful boats would be required to do the up-stream journey. Towing would seem to be hardly possible, inasmuch as the river at the ledge is 500 yds. broad, and the channel there is in mid-stream. The ledge, when the water is high, is not so great an obstacle, but at all times it is dangerous, and is so considered by the boatmen, who vow a sheep to the prophet Elias if a safe descent	Miles
is made. Between Fātihat Khidhr Ilyās and Hadīseh the current is about 7 m.p.h.: the dams of the <i>naurs</i> are troublesome to navigation.	
The small islands between Haji and Hadīseh are inhabited. Small islands. Mouth of Wādi Fadiyeh. Abu Sa'īd Island, one of the many small islands in this	$ 59\frac{1}{2} $ $ 60 $ $ 61 $
stretch. Wādi Hajlān, with sulphurous springs near the mouth. Jāfidi village. Beni Dāghir village. Island immediately above.	62 62 ¹ / ₂
'Ali 'Awīs village, with palm-trees, an l an island close to the bank in front of it.	631/2
Hadīseh or Hadītheh Island and village. For navigation see opposite. Hadīseh Island is 1 m. long and 200 yds. broad. There is a big village in the middle of it. The village has a defensible wall washed by the river and stands on high ground. Half-way up the island are the ruined piers of a bridge, very difficult to pass, with one narrow channel close under a flour-mill (1903) on the E. shore of the island. To the right of the bridge are two conspicuous saints' tombs some way from the water. At the upper end of the island is a ruined castle. There are magnificent date-groves in the vicinity. The people spin wool and cotton and weave cloth. A flood in 1888 destroyed the barracks, and a farm-house	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ " [١٠٧] (٣٢/١١٦)

	THE EUPHRATES—ROUTE IVF 107
Inter- mediate distance Miles	Left Bank
Miles	
1	Haddādiyeh village. Reimid village.
12	Ma'ber adyān village.
1	Abu Sa'īd, ruined fort. Murejjelān village.
$1^{\frac{1}{2}}$	Berwān village and island.
1 1 1 2	Channel in 1903 followed l. bank past Hadīseh I. At S.
*2	end of island is a difficult ledge of rock, having a narrow passage close under E. side of island.
	Ruins of bridge: channel under shore of island. See opposite.

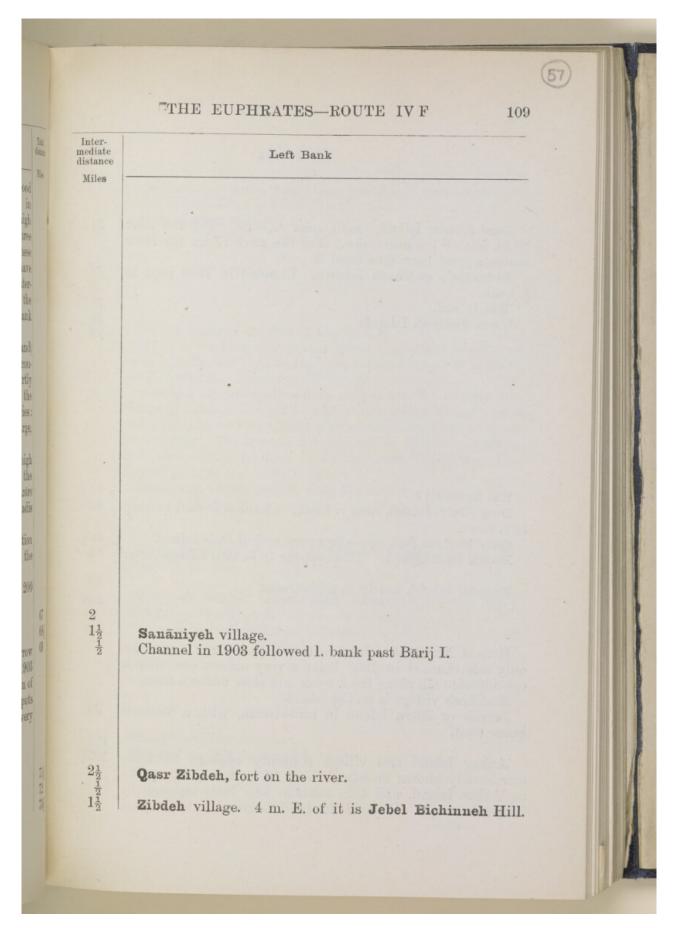


"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [١٠٨] (٢٣٢/١١٧)

	Total
Right Bank	distance
was being used for the purpose in 1889. This was a good specimen of the farm-houses which occur isolated or in groups on the river between Hadīseh and Hīt. A high wall of small stones set in mud surrounds the court, on three sides of which are buildings of the same material. These farm-houses look like forts, especially as they often have a small round watch-tower attached for watching the water-wheels. They are in fact intended for defence against the Bedouin Arabs. The present saptich post is on the r. bank of the river. There is also a modern village on the r. bank (mainland) with orchards. High rocky hills flank the village, and contain remarkable caves, apparently partly natural and partly artificial, which serve as dwellings for the poorer of the population. There are good and easily worked quarries: owing to the stratification, the stone comes out in large, almost squared, blocks. Inland from the river, and separated from it by a high ridge, are ruins of a large ancient town, and nearer the river, and visible from it, are a number of small mazārs with pointed dome-like roofs. There is grazing in the wadis S. of Hadīseh in spring. In 1889 there were only six boats by which communication was kept up between the main portion of the village on the island and the smaller portion on the mainland. The area between the river and the bluffs varies from 200 to 600 ft., and is all cultivated. Sheikh Hadīd, Moslem shrine. Bārij Rapid. A difficult ledge, with only one narrow passage in mid-stream. The channel bank kept to l. in 1903 past Bārij Island. This island is placed in a description of 1903 either opposite the ledge or below it, but the map puts it 1 m. above the ledge and shows it as ½ m. long and very narrow and close to the bank.	$\begin{array}{c} 67 \\ 68\frac{1}{2} \\ 69 \end{array}$
Qasr Abu Khebūr, fort, close (?) above Bārij Rapid.	711
Joheiniyeh Island, small.	72



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [١٠٩] (٢٣٢/١١٨)





"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [١١٠] (٣٢/١١٩)

110 RIVER ROUTES	
Right Bank	Total distan
	Miles
Beni Amām Island, small, near r. bank. For the next *8 m. islands are numerous. For the next 17 m. the river	74
makes a great horseshoe bend N. Khawājeh es-Sūseh Islands. Channel in 1903 kept to	75
l. bank. 'Ūdi Island. Umm Jediyeh Islands.	$75\frac{1}{2}$
Omm Jedryen Islands.	78
Tel Serbalij? Deis (Deir) Island, near r. bank. Channel is said to keep	81 82
Qasr Sarīfeh fort, opposite upper end of Deis Island. Habīb en-Najjār I. There appear to be two islands here.	82½ 85
Kerneh Island, nearly in mid-stream.	89 94 ¹ / ₂
	96
Here is Muhāreh Island, with a very difficult rapid, the only safe channel in 1903 being a very narrow one with a considerable fall along the l. bank and close under a naur.	
Muhāreh village is on the island. Jerreh or Kūru Island in mid-stream, with a fortified house on it.	981
'Askar Island and village (Chesney appears to have	100 102 ¹ / ₂
erroneously shown an island about 10 m. below this point as 'Askar Island, and this mistake has been repeated in Kiepert's map). Channel in 1903 followed l. bank past	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [١١١] (٣٢/١٢٠)

Intermediate distance Miles There is some doubt about the position of this village (see under Zibdeh Islands below). Beni Amām village. Zibdeh Islands, extending nearly 2 m. There is no clear agreement about the actual position of these islands, but the channel was reported in 1903 to be to the E. of them. Report of 1908 says: 'About 2 m. below Deis (see m. 82) are the islands and village of Zibdeh, the position of which seems to have been erroneously shown by Chesney as about 7 m. farther down the stream. The islands now known as Zibdeh appear to have been shown by him as Tafahah and Nāsirīyeh. The channel goes to l. (i. e. by l. bank).' Nāsirīyeh Island, small, near bank (?). Jebel Kuleibeh lies "2 m. NE. and Jebel Habīb en-Najjār "3 m. W. Wūdiyeh Island. Jowāniyeh village on l. bank, about half-way up Wūdiyeh I. Channel in 1903 followed l. bank. Zāwiyeh village and fort. Channel in 1903 followed l. bank.			THE EUPHRATES-ROUTE IV F 111
There is some doubt about the position of this village (see under Zibdeh Islands below). Beni Amām village. Zibdeh Islands, extending nearly 2 m. There is no clear agreement about the actual position of these islands, but the channel was reported in 1903 to be to the E. of them. Report of 1903 says:— 'About 2 m. below Deis (see m. 82) are the islands and village of Zibdeh, the position of which seems to have been erroneously shown by Chesney as about 7 m. farther down the stream. The islands now known as Zibdeh appear to have been shown by him as Tafahah and Nāsirīyeh. The channel goes to I. (i. e. by I. bank). Nāsirīyeh Island, small, near bank (?). Jebel Kuleibeh lies '2 m. NE. and Jebel Habīb en-Najjār '3 m. W. Vüdiyeh Island. Jowāniyeh village on I. bank, about half-way up Wudiyeh I. Channel in 1903 followed I. bank.		mediate	Left Bank
Zibdeh Islands, extending nearly 2 m. There is no clear agreement about the actual position of these islands, but the channel was reported in 1903 to be to the E. of them. Report of 1903 says:— 'About 2 m. below Deis (see m. 82) are the islands and village of Zibdeh, the position of which seems to have been erroneously shown by Chesney as about 7 m. farther down the stream. The islands now known as Zibdeh appear to have been shown by him as Tafahah and Nāsirīyeh. The channel goes to 1. (i. e. by l. bank). Nāsirīyeh Island, small, near bank (?). Jebel Kuleibeh lies *\frac{7}{2}\$ m. NE. and Jebel Habīb en-Najjār *\frac{7}{3}\$ m. W. Wūdiyeh Island. Jowāniyeh village on l. bank, about half-way up Wūdiyeh I. Channel in 1903 followed l. bank.			under Zibdeh Islands below).
Zibdeh Islands, extending nearly 2 m. There is no clear agreement about the actual position of these islands, but the channel was reported in 1903 to be to the E. of them. Report of 1903 says:— 'About 2 m. below Deis (see m. 82) are the islands and village of Zibdeh, the position of which seems to have been erroneously shown by Chesney as about 7 m. farther down the stream. The islands now known as Zibdeh appear to have been shown by him as Tafahah and Nāsirīyeh. The channel goes to I. (i. e. by I. bank). Nāsirīyeh Island, small, near bank (?). Jebel Kuleibeh lies **2 m. NE. and Jebel Habīb en-Najjār **3 m. W. Wūdiyeh Island. Jowāniyeh village on I. bank, about half-way up Wūdiyeh I. Channel in 1903 followed I. bank.			Beni Amam vinage.
There is no clear agreement about the actual position of these islands, but the channel was reported in 1903 to be to the E. of them. Report of 1903 says:— 'About 2 m. below Deis (see m. 82) are the islands and village of Zibdeh, the position of which seems to have been erroneously shown by Chesney as about 7 m. farther down the stream. The islands now known as Zibdeh appear to have been shown by him as Tafahah and Nāsirīyeh. The channel goes to l. (i. e. by l. bank).' Nāsirīyeh Island, small, near bank (?). Jebel Kuleibeh lies *\frac{7}{2}\$ m. NE. and Jebel Habīb en-Najjār *\frac{1}{3}\$ m. W. Wūdiyeh Island. Jowāniyeh village on l. bank, about half-way up Wūdiyeh I. Channel in 1903 followed l. bank.			
Jebel Kuleibeh lies $^{\gamma}2$ m. NE. and Jebel Habīb en- Najjār $^{\gamma}3$ m. W. Wūdiyeh Island. Jowāniyeh village on l. bank, about half-way up Wūdiyeh I. Channel in 1903 followed l. bank. 2\frac{1}{2} Zāwiyeh village and fort.			There is no clear agreement about the actual position of these islands, but the channel was reported in 1903 to be to the E. of them. Report of 1903 says:— 'About 2 m. below Deis (see m. 82) are the islands and village of Zibdeh, the position of which seems to have been erroneously shown by Chesney as about 7 m. farther down the stream. The islands now known as Zibdeh appear to have been shown by him as Tafahah and Nāsirīyeh. The channel goes to l. (i. e. by l. bank).'
Najjār ⁷ 3 m. W. Wūdiyeh Island. Jowāniyeh village on l. bank, about half-way up Wūdiyeh I. Channel in 1903 followed l. bank. 2½ 1½ Zāwiyeh village and fort.			Nasiriyen Island, small, near bank (?).
half-way up Wūdiyeh I. Channel in 1903 followed l. bank. $2\frac{1}{2}$ $1\frac{1}{2}$ Zāwiyeh village and fort.	-	4	Jebel Kuleibeh lies ⁷ 2 m. NE. and Jebel Habīb en- Najjār ⁷ 3 m. W.
$2\frac{1}{2}$ $1\frac{1}{2}$ Zāwiyeh village and fort.			half-way up Wūdiyeh I.
1½ Zāwiyeh village and fort.			
$\frac{1\frac{1}{2}}{2\frac{1}{2}}$ Zāwiyeh village and fort. Channel in 1903 followed l. bank.		$2\frac{1}{2}$	
		$\frac{1\frac{1}{2}}{2\frac{1}{2}}$	Zāwiyeh village and fort. Channel in 1903 followed l. bank.



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ " [١١١] (٢٣٢/١٣١)

112 RIVER ROUTES	
Right Bank	Total
'Askar Island. From 'Askar Island up to Habbein Gharbi	Miles
(m. $108\frac{1}{2}$) the current runs about 4 m.p.h. Khān Feheimeh (Fahami) village and guard-house. The zaptieh post is an enclosure with sides 100 ft. long, overlooking river from the high sloping bank. Good grazing all round. Island opposite, covered with bushes. The village is on the river bank with the road immediately behind. In front of or near the barracks is a wadi. At its junction with the river	103
is a swamp difficult to cross, where animals may get badly bogged. The Zawīyeh Arabs are seen about here. They had (1907)	
a fortified house on an island ½ m. below Feheimeh. Jebel el-Khiyām, at some distance to W. Sariyāfi or Bozār Island and village, near the bank. Channel in 1903 followed l. bank. Just above the island are the Bajān rocks in mid-stream.	$104 \\ 104\frac{1}{2}$
El-Waladiyeh Island.	$105 \\ 107\frac{1}{2}$
Here are rocks showing up in mid-stream. From here up to Tablīs I. current is 2 m.p.h. (JanFeb. 1903), except at a few naurs. Navigation is said to present no difficulties.	1081
to a zer warm ziwigawa is state to prosent no amountains	$109\frac{1}{2}$
Tablīs Island, almost uninhabited and with ruined fortifications still visible, is near r. bank.	110
Bishkireh or El-Bauni Rapids. Navigation difficult, but there is an artificially deepened channel 40 yards from r. bank. From here to the ruins of Ardeshīr bridge, just below	111
Anah, the current runs $5\frac{1}{2}$ m.p.h. and navigation is difficult. Wādi Jedīdeh joins river. Jumeileh village in palm-trees, between river and road. Qasr 'Abdallah fort stands 1 m. back from river. The low	$ \begin{array}{c} 112\frac{1}{2} \\ 116 \\ 117 \end{array} $
ground between the river and the desert plateau grows narrower as Anah is approached, and is not more than 200 yards wide on the Syrian side and less on Mesopotamian side. Anah. The town extends for several miles along the river bank.	
Ardeshīr (or Lubbad) Island, small, in mid-stream. On	$\begin{array}{c c} 117\frac{1}{2} \\ 118\frac{1}{2} \end{array}$



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [١١٣] (٢٢/١٢٢)

		THE EUPHRATES—ROUTE IV F 113
1 11 11	Inter- mediate	Left Bank
	distance Miles	Lett Bank
	24.100	the state of the s
	1/2	
	2	
		- The second state of the
1		
16		
14 14	1	Muadrid village.
	$\frac{1}{2}$	Channel followed l. bank in 1903.
	1	Websites 1 20
III.	$2\frac{\frac{1}{2}}{2}$	Feheimeh village. Qasr Ābnādādiyeh, fort, immediately above upper end of
18	1	isiand.
II III		Habbein Gharbi (Sheibighah) village.
	i	Waller willow Wall Go
		Habbein village. Wādi Sūr joins river just above the village.
II .	1/2	
11	1	
	11	The state of the s
	$\begin{array}{c} 1\frac{1}{2} \\ 3\frac{1}{2} \\ 1 \end{array}$	Ruins of Old Anah or Anatho.
	1	
	1 1	Qasr Hubūliyeh, fort.
	MES. III	н

"كتيّب بلاد الرافدين. المجلد الله ١٩١٧ [١١٤] (٣٢/١٢٣)

114	RIVER ROUTES	
	Right Bank	Total distan
hig bot esp cha	re a ruined castle and an early Islamic minaret 10 stories h, and also 30 houses. The island was connected with h banks by bridges, which are now ruined. Their piers, ecially on the l., are an obstacle to navigation. The number of the piers.	Miles
the The Arc kee the is a in	From ½ m. below Kerableh Island (see Route IV G, m. 2) current runs 7 m.p.h. the whole length of the town. e channel going up-stream passes between the piers of deshīr bridge near r. bank. It then curves to the l. and eps the chain of islands between it and the town. From a island of Ardeshīr up to the head of Kerableh Island an artificial channel constructed for the Turkish steamers 1870, one of which was afterwards wrecked close to deshīr bridge.	
1	Middle of Anah town. For navigation past the upper end Anah town see <i>Route</i> IV G.	119
	ROUTE IV G	
	ANAH—DEIR EZ-ZOR (192 m.)	
Ā ==	The distances which follow are taken from the middle of nah, but the town straggles along the bank, above this int, for $1\frac{1}{2}$ m. or more. Rawā is opposite the upper end	0
of .	Anah. Wādi Rawā, a deep gorge, joins the river.	$1\frac{1}{2}$
is Ke thi Ba	Bahaleh Rapids, passing Kerableh I. Here the navigation extremely difficult. Chesney says that the ledge of erableh was considered the greatest difficulty for boats roughout the navigation of the Euphrates from Birijik to asra, and this statement is supported by observation in 03. Below the island is the upper end of the artificially	2



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [١١٥] (٢٣٢/١٣٤)

THE EUPHRATES—ROUTES IV F, IV G 115		
	Inter- mediate distance	
An artificially deepened channel extends from below the island of Ardeshīr to below Kerableh Island (see Route IV G, m. 2, below).	Miles	
	1	
For points along and near this bank, compare Route 47.	0	
Rawā. On high ground above the river is Qasr el-Kureim, a large square barracks built about 40 years ago. Fruit gardens and date-groves for some distance; then the country becomes barren and is destitute of villages, though		
there are occasional patches of cultivation irrigated by naurs. Kerableh Island. Channel in 1903 followed l. bank. For details see opposite.	$\frac{1}{2}$	
н 2		



"كتيّب بلاد الرافدين. المجلد الله ١٩١٧ [١١٦] (٢٣٢/١٣٥)

Right Bank	Total distance
excavated navigation channel, which has its lower end at Ardeshīr (see Route IV F, m. 118½). At the lower end of Kerableh I. are the Sikr Sultān rocks, a ledge which entirely blocks the r. branch of the river. The channel in 1903 passed between l. bank and island, about 20 yds. from the island.	Miles
The current ran past Kerableh I. at 7 m.p.h. in JanFeb. 1903. At a point about 30 yds. above the level of the island is another straight ledge of rock stretching across the whole river, forming a waterfall on the r. and the very swift Bahaleh rapids on the l. At the head of the island the river is contracted to 200 yds. in width, and then broadens to 300 yds. The navigation of this stretch could be made much easier	
by removing the rocky obstructions with dynamite. Imam Meshhed tomb and ruins.	$\begin{array}{c} 5 \\ 6\frac{1}{2} \end{array}$
	9 10
Dangerous rapids caused by dam of ruined naur. The stream, which has been from 250 to 300 yds. wide, now narrows considerably. From here to Mathadiyeh rock, (see m. $59\frac{1}{2}$), the river is about 150 yds. wide and the current, except at naurs, is 2 m.p.h. The average depth is 9 ft. during winter months when the river is low (except at naurs).	$10\frac{1}{2} \\ 11\frac{1}{2}$
Rapid? Küheh Island. Sherwein Island. Tazāli I. Opposite or above it is a bad rapid, with a water-wheel on the r. bank. The upper end of the rapid is described as being 4 m. below Nāhiyeh. Channel in 1903 went near l. bank. Three wrecked boats were seen	
Derīyeh Rapid? Nāhiyeh. Khan and police post. Island opposite it. Channel in 1903 followed r. bank. Cultivation now ceases, and from here up to Abu	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [١١٧] (٣٢/١٢٦)

	THE EUPHRATES—ROUTE IV G 117
Inter- mediate distance	Left Bank
Miles	Minister Second on the land of
	Channel follows 1. bank (see opposite).
	The second secon
$\begin{array}{c} 3 \\ 1\frac{1}{2} \\ 2\frac{1}{2} \end{array}$	Hājiyeh, huts and date-grove below a spur of higher ground coming down to river. En-Nutāreh Island.
1	En-Nutāreh. No village; some corn-fields cultivated from Rawā.
$1^{\frac{1}{2}}$	Serāseh Island.
1 1	
8	Channel in 1903 followed l. bank.
3 2	El-'Ajmīyeh, small cultivated tract, with naur.
2 1	
	To be the second of the second



"كتيّب بلاد الرافدين. المجلد الله ١٩١٧ [١١٨] (٢٢/١٣٤)

118 RIVER ROUTES	
Right Bank	Total distance
Kemāl, about *60 m., the banks are almost uninhabited and are either bare or covered with tamarisk. Rather serious rapid (1903). Jedīreh I. Channel follows l. bank. Qāsim el-'Assā'iyeh (?). Zāleh Island. Za'ferāniyeh I. Channel in 1903 followed l. bank. Hamānā rocks.	$\begin{array}{c} 30 \\ 32\frac{1}{2} \\ 34\frac{1}{2} \\ 35\frac{1}{2} \\ 36 \\ 38\frac{1}{2} \\ 39\frac{1}{2} \\ 41 \end{array}$
	43 45 47
Qal'at Rāfideh, fort: a fine pile of ruins. Jurdān I. (small) opposite it.	$51\frac{1}{2}$ 52
Mathadiyeh rock, in mid-stream. The naurs, numerous below this point, were in 1903 not found above it.	$59\frac{1}{2}$ 64
Simānah rock, sunken; channel followed r. bank in 1903.	$64\frac{1}{2}$
El-Qā'im, police post. There is no village at this place, but a good khan had lately been built in 1907. It is the residence of a Mudir. Near the river, and responsible for the cultivated ground, are Kerableh Arabs. Farther back from the river are the Jerā'if (Jeghaifeh) Arabs, who sometimes in drought cross the river to the Mesopotamian side for the better pasturage there.	71
From El-Qā'im to Abu Kemāl (*17 m.) the channel is	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [١١٩] (٢٣٢/١٣٤)

Inter- mediate	Left Bank
Miles	
2	Channel follows 1. bank.
$\frac{2\frac{1}{2}}{2}$ 1	Shehādi I.
$2\frac{\frac{1}{2}}{2}$ 1	Channel in 1903 followed l. bank.
$\begin{array}{c} 1\\ 1\frac{1}{2}\\ 2 \end{array}$	Chedish Islands. Large island at S. end of a loop in the river: channel by
2 2	l. bank (1903). Qal'at Bū Āghā, fort. Qal'at Būlāq or Retājeh, small square ruined fort of sun-
41/2	dried brick with round towers at the angles, on a precipitous knoll which the river is undermining. Channel in 1903 followed l. bank.
1/2	Jabariyeh ruins, no settled habitation. 1½ m. NW. is
$7\frac{1}{2}$	the Imām Sultān 'Abdallah tomb.
41/2	Balijeh, cultivated ground on the l. bank, belonging to
$\frac{1}{2}$	Nammāleh I. and two other islands extending in all 3 m.
	The district from this bend to Ardhi (12 m. farther on) is known as the Qā'at ed-Dilaim (Dilaim Arabs), and is barren save for thickets of tamarisk, though frequent traces of canals
$6\frac{1}{2}$	show that it was once under cultivation. Two ruined piers of a bridge in mid-stream. The river-bed here changes from rock to gravel and mud,
	and navigation becomes easier.



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ " [٢٠] (٢٣٢/١٣٤)

Right Bank	Total distance
150 yds. wide, the current 2 m.p.h., and the average depth 12 ft. (JanFeb. 1903). The hills now draw away from the river and do not	Miles
approach it again on this side till near Salāhiyeh (m. 127). Jerāseh I., small. Qasr el-Qā'im, ruined tower.	72
Imām Sheikh Jābir tomb.	$72\frac{1}{2}$
'Angah ruins, surrounded by mud-brick wall.	74 75
Rummāniyeh I., close to r. bank.	$75\frac{1}{2}$
the landage of the state of the	77 79
Abu Faraj I.	80
-aparticular forting and different spinish in the same	00
of Avenue to Contract a South of the Contract	
Abu Kemāl. Pop. about 500; 80 houses. Police post. Residence of Kaimmakam. Ferry.	81½ 88
Abu Kemāl is a small modern village on high ground 1 m. back from the river. The ground is low and marshy towards the river; farther W. it is fairly dry and even pebbly. It is the chief town of a <i>Kaza</i> of the same name. There is a small	
since 1896 from its old site down by the water. The old village was in danger of being destroyed as the river was	
cutting a new bed on the W. bank. The new village is 1 m. from the old, and has broad streets at right angles, with stone instead of mud buildings. To the SW. (a few miles off) are three low peaks called Thelātheh, a landmark. Also to SE.	
The Kaza of Abu Kemāl had in 1890 a population of about 15,000, practically all Sunnis. Within the last few	
Zor and Mosul. The place is regarded as the centre of the country of the Ugevdat Arabs. The areas under cultivation	
produced an annual yield of nearly 5,000 tons of maize,	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٢١١] (٣٢/١٣٠)

Inter-	THE EUPHRATES—ROUTE IV G 121
mediate distance	Left Bank
Miles	
1 1 2	El-Menāji I.
11/2	El-Manzil I.
$1 \\ \frac{1}{2} \\ 1 \\ \frac{1}{2} \\ 1 \\ 1 \\ \frac{1}{2} \\ 2 \\ 2$	Gharbeh I. These three islands lie close to l. bank.
$\frac{1\frac{1}{2}}{2}$	Rabāt. Village on water's edge, lying in a plain. There
1	is some land under corn by the village. Ardhi or Irzī, extensive area of ruined tombs with towers
1	on the top of a rocky bluff which bounds the plain of Rabat.
	and here comes close to the river. There are no traces of houses.
	The hills on this side recede from the river from this point up, stretching in a rocky ridge N. and NNW. across
44	the desert towards the Khabūr R.
$\frac{1\frac{1}{2}}{6\frac{1}{2}}$	Island off left bank. Large island. Channel in 1903 followed r. bank.
201	
	It was opposite Abu Kemāl that Chesney lost his steamer the <i>Tigris</i> , in a violent local hurricane, on the afternoon of
	May 31, 1836.
uar	
*	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ " [٢٢] (٣٢/١٣١)

122 RIVER ROUTES	
Right Bank	Tota
sesame, corn, and barley. The live stock consists mainly of sheep. From here up to Deir ez-Zor (about 70 m.) there is almost continuous cultivation by water-lifts, but the cultivated strip scarcely reaches more than \(\frac{1}{4} \) m. from the river. Mouth of Wādi Sawāb.	Mile
	89
Island in mid-stream. There are stiff rapids at this point, and the river was reported in 1903 to be divided here into three channels (i.e. by the island already mentioned and another which is perhaps formed only at low water). The navigable channel then kept close to the r. bank.	91
The course of the river becomes extremely sinuous. Tel Madquq , about $3\frac{1}{2}$ m. W. from river, near road, 60 ft. high with graves on top.	$93\frac{1}{2}$ $96\frac{1}{2}$
	106
Short, stiff rapid, the top of which was reported in 1903 as 18 miles below Salāhiyeh Khān.	109
Hereabouts the river was reported very shallow in Jan Feb. 1903, with snags all over it; there were two country boats seen wrecked here.	116
Island. Channel in 1903 followed r. bank. A shallow (5 ft. of water in a narrow navigable channel) n. below Salāhiyeh Khān was reported in Jan.—Feb. 1903.	119 126
Salāhiyeh Khān, police post below the cliffs, on road and T.L., ½ m. from river. No supplies procurable. The khan is said to be the worst on the road, dilapidated, and used as a zaptieh post. Some cultivation worked by Arabs living in tents.	127
Shallow (reported JanFeb. 1903) with spits of sand showing above water.	
Qal'at Salāhiyeh (or Khān Kalasi), ruined fortified town in strong position on plateau, commanding many miles	190



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٢٣] (٣٢/١٣٢)

	T-1	THE EUPHRATES—ROUTE IV G 123
	Inter- mediate distance	Left Bank
	Miles	
	1	Werdi, a village of reed and mud huts. Ferry to Abu Kemāl.
	2	
	91	
	$\frac{2\frac{1}{2}}{3}$	Ground covered with tamarisk hereabouts; ducks and pigeons abundant. The tribes hereabouts are the Bū Kemāl (also on r. bank), the Dilaim, and the Ugeydat, a base-born tribe. The Anazeh
	10	come down to the r. bank in summer. Tel Abu Hasan. A striking tel which rises 50 ft. above river level. On summit are Arab graves of Jebur
}	21/2	tribe, who have now migrated to the Tigris.
6	7	
19 16 1	3 7½	
103	1 2	
19	2	
00	1	The country between here and the cultivation round Tel 'Afriyeh (below) is arid, with little sand-hills held together



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٢٢] (٣٣/١٣٣)

	Total
Right Bank	distance
of the river up and down stream. The river flows close beneath the hill. The width of stream from Qal'at Salāhiyeh to Meyyādīn is about 200 yds., the current 4 m.p.h., and the average depth 8 ft. (1903).	Miles
Shiblik tombs, $\frac{1}{2}$ m. from bank on high ground.	$133\frac{1}{2}$
	136
On the bank ruins and mounds known as Qasr el- 'Ashareh, a fort.	140 143
Some miles to W. is Qal'ah Rahbeh , a well-preserved and formerly very strong castle on an abrupt rocky knoll, 245 ft. above river level.	149
Meyyādīn. Pop. about 2,000 (450 houses). T. Chief town of the Kaza of Achara and residence of a Kaimmakam. The village stands on a mound of débris. It contains from 400 to 500 houses, a bazaar and fair shops, and supplies are procurable. There is a mosque with a leaning tower. The inhabitants are mostly Sunnis, with a few Christians. The Kaza of Achara, which comprises the country round Meyyādin and the nahiye Buseireh, and stretches far across the desert towards Palmyra, had in 1890 about 24,000 inhabitants (all Sunnis). Excluding its nahiye Buseireh, it is estimated	154
to contain about 65,000 head of live stock, mostly sheep. Maize, wheat, and barley are grown. Considerable quantities of wool and butter are exported on muleback to Aleppo. Some shallow rapids with a depth of only 4 ft.	155
Belum village. Bogrus village. Several small islands, breaking the river up into several channels, lie in the stream between this point and the mouth of the Khabūr River.	158 159



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٢٥] (٢٣٢/١٣٤)

	THE EUPHRATES—ROUTE IV G 125	
Inter- mediate distance		
Miles	by tamarisk. It is liable to flood with a high river, and there are overflow channels containing stagnant water.	
$3\frac{1}{2}$	From here to Bustān, *9 m., there is cultivation, with irrigation creeks and several small villages, Abu Hammām, Abu Hardūb, Qaryat el-Bushama. The fields lie low and are occasionally flooded. Clover and corn are grown, two crops being secured, one before and one after the spring	
$\frac{2\frac{1}{2}}{4}$	floods. Tel 'Afriyeh. Tel Hijānik.' Bustān village. Palm garden. From here to the Khabūr R. is 6 hours' going for baggage animals across	
6	a level plain with traces of former habitation, pottery, and small village mounds.	
5		
1 3 1		
	AND THE RESIDENCE OF TH	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٢٦١] (٣٢/١٣٥)

126 RIVER ROUTES	
Right Bank	Total distance
From the mouth of the Khabūr up to the large island below Deir (see m. $192\frac{1}{2}$) the width of the river is $300-250$ yds., its current $3\frac{1}{2}$ m.p.h., and its average depth 6 ft.	Miles $161\frac{1}{2}$
Tel Zubari, mound.	$162\frac{1}{2}$
	$164\frac{1}{2} \\ 165\frac{1}{2} \\ 169\frac{1}{2}$
	1002
Marreh village. The road is here $^{\gamma}2$ m. SW. of river and 1 m. farther on crosses the Wādi el-Melha.	$172\frac{1}{2}$ 180
Wādi el-Melha. Abu Hasan village. Large island, the upper end of which is said to be about	$ \begin{array}{c} 181\frac{1}{2} \\ 182 \\ 182\frac{1}{2} \end{array} $
5 m. below Deir. The channel in 1903 followed the l. bank.	184
Binieh village. Above this the river widens to 400 yds.	187



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ " [٢٧] (٣٢/١٣٦)

Tuton	
Inter- mediate distance	Left Bank
Miles $2\frac{1}{2}$	Katneh on l. bank of the Khabūr R. mouth (here 50 yds. wide) at its confluence with the Euphrates. A ferry crosses to Euseireh. This was an inferior boat ferry in 1910, which would not take loaded animals. Bricks were then being gathered from Buseireh ruins with a view to building a bridge. Khabūr River, an important tributary, 80-100 ft. wide above its mouth.
1	Buseireh, zaptich post (15 men). Extensive ruins lie in the angle between the Euphrates and the Khabūr. Here is the ancient site of Circesium, a frontier station of the Roman Empire, and a place of some importance in the Middle Ages under the name Karkisīyeh. In the SW. corner of the ruins is an Arab village, or fixed encampment, of about 800 persons. Together with the villages up the Khabūr it forms a nahiye under the Kaza of Achara, with a population of 6,000 Sunnis. In 1890 there were 18 villages or more, with cultivation of maize, corn, barley, and sesame. The
2 1 4	live stock is mainly sheep (about 20,000 in 1890). Bureihah villages. Burairideh village. Settlement and cultivation, apparently just above the lower end of a dry channel which takes off from the present l. bank about *15 m. farther up. It is a former bed of the river lying to E., all dry save for occasional pools. Four dry cross-channels run from the present l. bank to this old bed. By the change in its course the river has left a stretch of low alluvial ground, thinly populated, and irrigated in part by wheels. On higher ground to the E. of the old channel
$\frac{3}{7\frac{1}{2}}$	are occasional mounds, marking former villages. El-Jedid, villages.
11/2 1/2 1/2	
11/2	Former bed of river (see m. 169½, above) apparently takes
3	off about here.

"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٢٨] (٣٢/١٣٧)

Deir ez-Zor. The river branches just below Deir, and the town lies on the branch known as the Jafr Canal, said to be fordable, though Chesney's steamers passed through this branch. Immediately opposite the town is an island about 1 m. long and in mid-stream. A bridge, passable for field guns, from the r. bank to the island was completed some years ago. According to recent information it had been extended from the island to the l. bank by the autumn of 1914. (A Turkish traveller stated in 1911 that the Government were preparing to build a suspension bridge from the island to the l. bank, as the current had here proved too strong for the pile bridge which had been planned.) There is a ferry from the island to the l. bank. Above this island are two others. There are trees on all three islands, and gardens on the uppermost. ROUTE IV H DEIR EZ-ZOR—MESKENEH (181 m.) Deir ez-Zor. From here to m. 47 the river is generally about 250 yds. broad. In January 1903 the average depth was 5 ft., and the current about 2½ m.p.h. Bereliyeh village. El-Imashiyeh ford was here about 1840, but there seems to be no more recent authority for its existence. A small stream joins the river. Tel el-Khureiteh. This hill, to the N. of which is a plateau with low mounds, lies between the two branches of the Baghdad—Aleppo road which bifurcates at Deir. 'Ain Abu Jum'a. This is a small bituminous spring near the river.	128 RIVER ROUTES	
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'Ain Abu Jum'a. This is a small bituminous spring near the river.	Tel el-Khureiteh. This hill, to the N. of which is a plateau with low mounds, lies between the two branches of the	100000
	'Ain Abu Jum'a. This is a small bituminous spring near the river.	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٢٩١] (٣٢/١٣٨)

Intermediat	
median distan	ce
5	
	AND AND ADDRESS OF THE PARTY OF
0	For points along and near this bank, compare Route 47.
2 2	El-Huseiniyeh village.
4	
3/4	El-Maisheh (or El-Khair) village on an arm of the Euphrates was reported here in 1880.
4 <u>1</u> 1	Euphrates was reported here in 1000.
4	
1/2	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [١٣٠] (٣٢/١٣٩)

Right Bank	Total
	Miles
is apparently much the shorter. There is no evidence as to which is the better channel. Distances given below are calculated by the rbank channel.	
Tābūs , ruins and caves. Rising ground close to the river. Tābūs is on a high bluff overlooking a naturally fertile plain. On W. side it is protected by a deep cut in the rock.	17½
Mutlim ford, mentioned in 1840. Mouth of wadi. Here in 1908 the river bent E. for	$24\frac{1}{2}$ $31\frac{1}{2}$
Mouth of wadi. Here in 1505 the liver bent 2. for $1\frac{1}{2}$ m., then N. for 3 m., and then W. Across the promontory formed by this bend water appears to flow at some seasons, forming the island of Buweitir .	012
Torming the Island of Buwellit.	34
Tureif, with two small islands opposite (1908). A military post with a khan. No supplies; grass in April plentiful, also fuel. The banks of the river were found to be 25 ft. sheer height in April 1907.	39
Island.	391
Island. Tibni ruins and village. Trees along the bank. Above	$\frac{41}{43\frac{1}{2}}$
is a large island. Qal'ah fort opposite the upper end of the island mentioned	4414
under Tibni above. For about $6\frac{1}{2}$ m. above this point the river flows through a range of hills, running from WSW. to ENE., called El-Hammār, or (on the r. bank) El-Bishr. These hills (300–500 ft. high) are of basalt overlying gypsum.	
Halebiyeh, ruins of a Palmyrene fortress, with Tel Kuleibeh Hama hill $2\frac{1}{2}$ m. W. of it. Halebi Chelebi defile. The hills, 300 to 500 ft. high,	1
Halebi Chelebi defile. The hills, 300 to 500 ft. high, close in on the river-bank. The narrowest part of the defile lies at its northern end above the Wādi el-Melih. Through	
the gorge the river contracts to 70 yds. with a depth of 7 ft., and a current running at 4 m.p.h. in JanFeb. 1903. Half-way up the gorge a small island was reported in 1903:	1 9



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [١٣١] (٢٣٢/١٤٠)

Tuton	THE EUPHRATES—ROUTE IV H 131
Inter- mediate distance	Left Bank
Miles	
3	
7 7	
7	
$2\frac{1}{2}$	El-Munqareh (zaptich post), ½ m. from the bank, with
	Umm Rejeibeh (ruins) on rising ground a few hundred yards to the N.
5	
1 2	
$1\frac{1}{2} \\ 2\frac{1}{2}$	Tel Abu Mutshiyeh hill.
	to the add enductorings
34	
$1\frac{3}{4}$	Zalubiyeh, a ruined Palmyrene fortress (third century A.D.). It is in shape a triangle, with its base resting on the river,
	while its sides climb the acclivity of a conical hill and terminate at the summit in a small acropolis. It was
	detended by walls flanked with strong towers, which with
	the public and private buildings, are constructed of fine gypsum and are as clean-cut and as fresh as if they had
1	been recently built.
	and Janes, Jaistell Josephanest in 1915 party party
	12



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ " [١٣٢] (١٤٢/١٣٤)

Right Bank	Total
	distance
the navigable channel followed the l. bank. Several small islands are shown in a map of 1908. At the top of the gorge is a strong backwater, and a whirlpool which is said to be dangerous when there is much water in the river.	51 52 _{1/4}
Head of the defile. Above the Halebi Chelebi defile, for a distance a little under 20 m. to El-Khās (see m. 72, below), the current runs about 2 m.p.h., the river is 200 yds. broad, and the average depth does not exceed 4 ft.	53
The river bifurcates round a large irregularly shaped island which appears to be about 7 m. long and 3 m. broad in the middle. There is no evidence to show which branch is the better for navigation. Distances are here calculated by the rbank branch.	54
Kasubi (Kosubi), a deserted mud village, with a fort noticeable from the river. Durra (a kind of millet) is grown on the surrounding low land.	56
'Ain Tīn, a spring by the side of the road, which here approaches the river. Qasr Ma'dan lies between the river and the road. On the other side of the road is Darb el-Wāwi (ruins). Above this point the edge of the desert plateau recedes somewhat from the river and leaves a zone of lower land 1-3 m. wide	59 59 ¹ / ₄
between it and the r. bank. A small tumulus; a ford to the top of the large island mentioned at m. 54 above is marked here on W.O. map, but it is uncertain on what authority. On the island opposite the ford is a larger mound which one authority calls Tel Khumeideh (but see m. 54 above under l. bank). Entrance to a dry arm of the river which passes Qishlāq	
Ma'dan about 3 m. WSW. of this point.	$66\frac{1}{2}$
	68
Khamīsīyeh ferry in Khamīsīyeh district. About here is the upper end of the dry arm mentioned above under m. $61\frac{1}{2}$.	70



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٣٣١] (٢١/٢٣٤)

	THE EUPHRATES—ROUTE IV H 133
Inter- mediate distance	Left Bank
Miles	
	Territoria de la companya del companya de la companya del companya de la companya del la companya de la company
4	Mouth of Wādi el-Melih.
11/4	Qabr el-Abu Atiq, ruins of a town on a height, with remains of a dam along the river in the valley below.
3/4	The hills recede from the river at right angles. Khanūqah village.
1	Tel Khanūqah (also apparently called Tel Khumeideh)
	near the river, is about $1\frac{1}{2}$ m. up the lbank branch of river past the island mentioned opposite.
	pass the island mentioned opposite.
2	The state of the s
	and the control of th
3	
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	in comment that a sent a straight of the sent that the sent the sent that the sent the sent that the sent t
13	
13/4	
	The state of the s
1/2	
5	Tel Mutāb on the river bank. Rising ground 2-3 m. to N.
$\begin{array}{c} 1\frac{1}{2} \\ 2 \end{array}$	El-Khān, ruins. About here live Afadle Arabs.
	The same of the sa
	the delice of the state of the



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [١٣٤] (٣٢/١٤٣)

Right Bank	Total
Channel in 1903 followed l. bank past several small islands. Here are shallows and spits of gravel. Chesney's map	Miles 71 72 74
(1840) shows an 'old ford of Abu Chelabi' in this neighbourhood. Navigation is difficult: the channel kept to r. bank.	11
In this neighbourhood there appear to be two islands, Mughleh el-Kebīr and Mughleh es-Saghīr. It is not clear where these islands lie or whether one of them should not be identified with Abu Hamad I. mentioned below.	
Abu Hamad Island, 4 m. long. The channel in 1903 kept to r. bank.	77
as domain the delication of the little of the second	79
	80
Zor Shammār. Here are shallows and spits of sand, and the navigable channel is tortuous. The W.O. map marks a ford here called El-Khatīseh, but it is uncertain on what authority.	83
Zor Jibli. Channel narrows to about 100 yds. Rapids for 400 yds. Zor Norud.	86½ 88
Qishlāq Sabkhah. Police post and village. 25 houses, pop. ? 150. T.O. Ferry. Below the barracks is a watering-place, and there is	92
camping ground with good grazing. The barracks were unoccupied in 1907. The village contains a fair-sized khan, with 10 rooms, on the E. of the place, and 12 mean shops on the street which runs past the khan. A Mudir has his head-quarters here.	
According to an authority who went down the river in 1903, from Sabkhah up to Mohammed Agha and Hamra Rapids (see m. $106\frac{1}{2}$, below) there is no difficulty of navigation, the river being 200 yds. wide, with an average	
depth of 8 ft., and a current of $2\frac{1}{2}$ m.p.h. in January. (Note.—An observer who passed Sabkhah travelling by land in April 1907 says, 'River here forms a right angle and runs very swiftly in a rapid. I do not see how a vessel could pass up-stream of this point.')	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [١٣٥] (١٤٢/١٤٤)

	THE EUPHRATES—ROUTE IV H 185
Inter- mediate distance	Left Bank
Miles 1 1 2	El-Khās district. Tamarisk-growth on the bank (1880).
3	
2	Imām Abu Saʿīdeh (Moslem shrine and cemetery) close to l. bank.
1 3	Jedīdeh village. Jebel Munkhir esh-Sharqi, hill: 5 m. N.: a conspicuous landmark.
$\frac{3\frac{1}{2}}{1\frac{1}{2}}$	The state of the s
4	al al mineral al al passoni or blow the deer
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	is a first and the first to being a parent obtained on a first and



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [١٣٦] (٥٥ ٢/٢٣٤)

Right Bank	Total distance
with a spring to NW. of them, both close to the road. Tamarisk jungle on the banks above Sabkhah.	Miles
Siffin district (placed about here by Sarre and Herzfeld: there is another Siffin above Raqqah: see m. $151\frac{1}{2}$, below).	$104\frac{1}{2}$
Hamrā Rapid, in 1903 said to be short and violent, with the channel keeping close to l. bank.	$106\frac{1}{2}$
Mohammed Agha Rapid, which in 1903 was reported to be 300 yds. long, with current 7 m.p.h.; at the bottom the channel was close under 1. bank, and at the top 100 ft. from it.	$107\frac{1}{2}$
from 16.	$108\frac{1}{2}$
	$\frac{111\frac{7}{2}}{112\frac{1}{2}}$
From Raqqah to Abu Qubā'ī there is no rapid, but the depth of water varies continually from 12 to 4 ft., so that great care would be necessary for its navigation in low water.	
	117
Abu Qubā'ī district, with tamarisk-growth, on an arm of the river which is liable to flood. Here there is a very bad stretch of rapids, which are the more dangerous owing to the remains of a masonry bridge in the centre of the river. It was reported in 1903 that above these rapids there was no difficulty for about 9 miles.	120
Wādi Abu Qubā'ī flows in. Lower end of El-Hammām Rapids; their upper end is immediately below the islands near that place (see m. 133½). In this stretch of river (nearly 3½ miles) the navigable channel winds among spits of gravel. In January 1903 it was reported that the current was 6 m.p.h. and that there	$121\frac{1}{2} \\ 130\frac{1}{2}$



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [١٣٧] (٢٤٢/١٤٤)

		THE EUPHRATES—ROUTE IV H 187
me	nter- diate tance	Left Bank
	iles	
1	$2\frac{1}{2}$	The first of the mouths of the Belikh delta.
	2	Channel in 1903 followed l. bank past Hamrā and Mohammed Agha Rapids. Near the Hamrā Rapid is the second mouth of the Belikh stream. The banks of the Belikh are very fertile and always green. Barley, maize, durra, rice, hemp, and opium can be cultivated along it with
	1	great success. Another mouth of the Belikh.
	1 8 1	Another mouth of the Belikh. Another mouth of the Belikh. Raqqah. There is a ferry. A small island lies above it. The river here is about \(\frac{1}{4} \) m. broad with a sloping beach on each side, a rare occurrence on the Euphrates.
	$4\frac{1}{2}$	Hiraklia (ruins). A square fort (Greek or Parthian) with round towers at the corners, built of blocks of white gypsum.
	3	(See Route 47, m. 243.) There are traces of an old bridge here.
	1½ 9	Tel Bellani (ruins), raised on a high bank, conspicuous owing to high tree-trunks set to mark an Arab cemetery.

"كتيّب بلاد الرافدين. المجلد الله ١٩١٧ [١٣٨] (٢٣٢/١٤٤)

Right Bank	Total
Lugit Dair.	distanc
was never less than 6 ft. of water, but that great care had to be taken to keep within the channel. In the summer many boats stick at this point, and in the month of Ramazan 1902 eleven pairs of boats were upset here. Suriyeh ruins.	
About here the navigable channel in 1903 was reported to go between two islands.	$133\frac{1}{2}$
El-Hammām (zaptieh post and khan). From here to Meskeneh the average width of the river was reported to be about 250 yds. in January 1903, the current 3 m.p.h., and the depth 8 ft. Navigation over this stretch presents no difficulties.	
Tel el-Thedeyein (130 ft. high).	1361
Huneideh village.	$137\frac{1}{2}$
In 1903 an island was passed about 12 miles below Qal'ah Jābir, the channel following the l. bank.	$139\frac{1}{2}$
	1511
Siffin ruins on a bluff of rock running down to the water's edge. Tall brick tower (remains of a minaret). There are caves in the limestone used as dwellings and sheep-folds.	-
	12
Abu Hureireh, or Qaraqqol: zaptieh post built of mud, and situated on a tel. Grazing by the river. Khan, poor; no supplies obtainable. T.L. over 1 m. to the S.	
An island lies in front of the post. In 1903 the channel followed the l. bank. In January 1903 no islands were observed on the river between Abu Hureireh and the neighbourhood of Meskeneh. There are probably islands or banks showing above water at	
least in the low-river season. (See e.g. m. 167.) From Abu Hureireh to Meskeneh and beyond to Birijik the valley is cultivated. Tamarisk and liquorice jungle gives way to wheat and barley, which grow without irrigation. Valley floor extends from 1 to 3 m. on either side of the river. There are scattered ruined villages at intervals on both banks. At Abu Hureireh the gentle slope from the	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٣٩١] (٨٤ ٢/١٣٤)

Inter- mediate	Left Bank
distance	
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	of their time at it made has a faller belief allenger grow
3	did a continuity which among all commit and
$\frac{1}{2}$	with 200 to 200 Tr. little coine chies to 1002 all chies
	the could be a directly leaded to the last fewer to the
$\frac{2\frac{1}{2}}{1}$	of the second se
2	Channel in 1903 followed l. bank past island.
12	Qal'ah Jābir, a fine ruined citadel on a rocky headland,
	with a tall minaret, from which a large stretch of country can be seen. A little to the W. is Ziyāret Sultān Selīm or Suleiman Shah. $2\frac{1}{2}$ m. NW. is Neshā'ib , a hill with Qasr el-'Abd tower, an ancient observatory and conspicuous landmark, upon it. The plateau is a monotonous plain with good pasture.
$7\frac{1}{2}$	There is little or no cultivation on this side. Channel in 1903 followed l. bank past Abu Hureireh Island.



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [١٤٠] (٩ ٢/١٣٤)

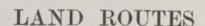
	RIVER ROUTES	
	Right Bank	Total distance
	river to the desert gives place to a line of more abrupt chalky cliffs, which continue to Meskeneh.	Miles
1	Dibsi, with Quseir ed-Dibsi ruins 1 m. S. by E. of it. The nills are now close to the river. Islands are shown in the river opposite Dibsi village and tower in a map made by Sarre and Herzfeld in 1908.	167
	Dibsi tower. The ruins are of brick. About here white cliffs 200 to 300 ft. high come close to the river. They recede about 1 m. above Dibsi tower.	$170\frac{1}{2}$
i i i	Khafajeh village. Here the river bifurcates round a large sland extending to opposite Meskeneh. The channel in 1903 followed the l. bank. Behind the village at a distance of under 3 m. are the large ruins of Bālis, the ancient Barbarissus, known now as Eski Meskeneh (Old Meskeneh). It ies on a bluff with a conspicuous minaret and some Roman remains.	177
	Meskeneh. There is a ferry-boat here—the first above Raqqah; it takes horses. Meskeneh, Tel el-Ahmar, some 32 m. above, and Birijik, some 90 m. above, are the principal bassages across the river in this part. Meskeneh is situated on rising ground. There is a khan on rising ground apparently about $1\frac{1}{2}$ m. from the river, with post and telegraph station just S. of it, the zaptieh barracks lying to the N. There were about a dozen zaptiehs here in 1908. Water-supply is partly from one or two wells, but chief supply from river.	181
1	Some scrub and camel dung available for fuel. As many as 20,000 sheep have been counted in this neighbourhood in January feeding in the valley. Excellent pasturage was found in 1907 on the wide meadows between the post and the river. In 1915 there was a camp at Meskeneh for deported Armenians, many of whom died here.	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [١٤١] (٣٢/١٥٠)

Inter- mediate	Left Bank
distance	LIGHT DAILK
Miles	
8	THE OWNER OF STATE OF
31/2	OF AUTHER HELIALISM STATEMENT WITH THE
$0\overline{2}$	
61/2	Channel in 1903 followed l. bank past island opposite
	Khafajeh.
4	
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THE TIGRIS VALLEY WITH REGION TO EAST

ROUTE 25 a

BAGHDAD—MOSUL (2921 M.)

Via Salāhiyeh (Kufri), Kirkuk, and Erbil.

Authorities:—Military Report on E.T.A., vol. iii, 1904 (Report of 1903); Lorimer, Report of a Tour in Turkish Arabia and Kurdistan in April-May 1910; Route Report of 1910; Petermanns Mittheilungen, Ergänzungsbd. x, 1875-6 (Černik's journey of 1873); and other sources of information.

This was the usual route followed by troops before the present war. With some slight repairs and with some bridging it could be made easily passable for transport and field-guns throughout. It leads for the most part through fairly populous, well-cultivated, and well-watered country, and a number of considerable towns. The chief difficulties are to be found in the numerous irrigation cuts between Baghdad and Delli 'Abbās (these are chiefly on the Western Route, see (ii) below), in some of the wadis and large torrent-beds crossed between Salāhiyeh and Kirkuk, and in the crossing of the Great Zāb.

From Baghdad to Delli 'Abbās there are two possible routes: (i) an Eastern Route via Bāqūbeh, and (ii) a Western Route via Jedeideh and Khān Nahrawān. The Eastern Route appears to be the better.

(i) THE EASTERN ROUTE TO DELLI 'ABBAS

As far as Bāqūbeh this is a caravan road easy for wheeled vehicles except in rain. Beyond Bāqūbeh it was reported in 1910 to be fit for guns, though only pack-animals were used on it: in this section it was rough in places, where, however, it could be improved considerably by a little pick and shovel work: the soil is sandy and going would be heavy after rain.

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"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٣٤١] (٢٥١/٣٣٤)

	LAND ROUTES—ROUTE 25 a 143
Miles from	
Baghdad	Baghdad. For the road to Bāqūbeh see Route 28 a,
04	m. 1—31.
31	Bāqūbeh. From the W. end of the boat-bridge (see <i>Route</i> 28 a , m. $30\frac{1}{2}$) the track runs somewhat N. of NNW.
	(340°), parallel with the river, towards some bluffs 2 m.
00	away.
33	Top of bluffs. It is stated that 'here the road to Mosul branches off NNW.' This seems to be a track leading to
	Route (ii). Track here followed to Delli 'Abbās appar-
	ently bears more towards N., but the direction is here
35	uncertain. Small stream is crossed. Path turns sharp to E.
$35\frac{3}{4}$	Path turns somewhat N. to NE. by N. (30°).
39	Cross small stream. Pass palm-groves about 1 m. to W. Line of sand-hills is crossed.
40	Cross small stream. Track turns sharp to about E. by N.
	(80°).
42	Khān Seyyid, on Diyāleh River. Water abundant from river, grazing fair. Camping ground suitable for troops.
	Track goes somewhat N. of NE. by N. (30°), skirting the
	Diyāleh.
44	Road passes through palm-grove, apparently leaving the bank of the Diyāleh.
49	A palm-grove is passed on E.
50	Tapi hamlet, a few houses on the track. Track runs
53	hence between NE, and NE, by N. (40°). Cross small stream.
55	Cross two small streams. Nuqtah on E., and a large white
	mound from which a good view of the surrounding country can be obtained. Road touches the Nahr
	Khālis. Road starts from this point at about NE. (45°).
61	Road again touches the Khālis.
63	Delli 'Abbās (see Route ii).
	(ii) The Western Route to Delli 'Abbās
Before	e the war, a good many irrigation cuts seem to have needed
bridging	in order to allow wheeled transport to pass by this route to
Delli 'Al	
were ma	stimates of the depth, &c., of water in the irrigation cuts de in January 1903.



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [١٤٤] (٣٢/١٥٣)

144 •	LAND ROUTES
Miles from	
Baghdad	Baghdad. The route leaves the town by the Bab el-
	Mo'adhdham and takes the 1hand branch outside the
	gate (a rhand branch leads to Bāqūbeh).
1	Pass cavalry barracks, skirt a large dyke. Cross several
	irrigation canals, some 6 ft. deep and 10 ft. wide, with
	small bridges of date trunks, about 3 ft. wide. These
	bridges will generally carry a laden mule, but it is well
	to examine before using them and test them first by
	men on foot. Walled gardens on l. for 2 m.; cultivation on both sides for 4 m. Near Mo'adhdham the
	track is boggy for $\frac{1}{4}$ m. Near Mo adadam the
6	Country open and cultivated. All this region is liable to
	be flooded in spring. Low mounds to r.
11	Pass Khān-i-Badran, in ruins, and for the next 2 m.
	some irrigation channels with marshy ground extending
	towards the river. Ruins of Bint Hasan to E.
14	Pass Qal'ah Tinai, in ruins.
15	Cross irrigation cuts and skirt an embankment to keep out
	the floods of the Tigris, which is now visible to the W. The embankment is about 20 ft. high, 12 ft. wide on top,
	and 30 ft. wide at the base.
18	Jedeideh, 300 houses, in a grove of date gardens,
11111	enclosed by a mud wall; two khans. (The distance
	given by the authority here followed is perhaps too
	short. Jedeideh may be 20-21 m. from the Mo'adhdham
	Gate.) The first khan reached on entering the village
	is about 80 yds. square, with stabling for 200 horses,
	having a well in the centre, with water 20 ft. below the surface. The other khan, near the river, is 60 yds.
	square, with stabling for 100 horses. To NE. are
	numerous villages along the Nahr Khālis, and canal
	from the Diyaleh. Small canals cross the road flowing
	towards Hawesh.
	Beyond the principal khan the track lies through walled
	date gardens for a mile. Ground swampy in winter and spring from irrigation. On leaving the village cross an
	irrigation channel, 15 ft. deep and 30 ft. wide. Skirt
	this for ½ m., then strike half-right over a marshy
	plain.
20	Cross three parallel irrigation channels. A road goes
	between two of these. Channels about 8 ft. deep and
	12 ft. across, with the usual palm-trunk bridges.



"كتيّب بلاد الرافدين. المجلد !!!. ١٩١٧ " [٥٤١] (١٥٥/٣٣٤)

		(0)
	ROUTE 25 a 148	5
Miles from Baghdad		
22	Dokheileh, among date gardens, between the walls of which	1
$22\frac{1}{2}$	the road passes. Ground to r. very marshy for 2 m. Skirt the Tigris a short way to l. The bank is heavily	
22	dyked by an embankment, 15 ft. wide at top, 20 ft. high	
	and 40 ft. at the base, revetted with brushwood. Con	
	tinue along dykes, cross and skirt a canal. Low	
	tamarisk jungle fringes the river. Several small villages are dotted over the plain to E., each with date	
	gardens. The Mamūdiyeh and Nahr Khālis canals	3
	from the Diyaleh traverse the plain which stretches	3
26	eastward to the Diyāleh. Leave the dykes, which here become lower, and trend	
. 00	half-right over cultivated and rather boggy plain.	
29	Pass Jeizāni Saghīr, with a large grove of palm-trees. Jeizāni Kebīr is 4 m. to E.	
31	Cross some water-channels. There are several tracks across	
	a cultivated plain, low and boggy with a few water	
34	channels intersecting it. Zedaideh, 300 houses, hidden in date-groves, with khan.	
36	Khān Nahrawān. Route turns NE. A short distance	
	beyond Nahrawān village is the bed of the old Nahrawān	
	Canal, 60 yds. wide, 10 ft. deep, in which excellent grazing is to be found in spring. (Most of the maps	
	seem to make the distance up to this point about 40 m.,	
	but it is not known on what authority.)	
$36\frac{1}{2}$	Desert route to Tuz Khurmatli and Kirkuk diverges to N. leading	
	via Qarfeh (21 m.?), the Band-i-'Adheim on the 'Adheim River (46 m.?) through the Hamrīn Hills by the Demīr Qāpū	
	defile, and thence by r. bank of 'Adheim River to Tuz Khurmatii (73 m.?), whence the main Baghdad—Mosul route is followed	
	to Kirkuk (see below, m. 142½). Supplies and water between Nahrawān and Tūz Khurmatli are deficient, the country being	
	mainly desert. Qarfeh is a small village lying near some salt	
	pools. There appears to be no permanently inhabited place between Qarfeh and Mufti Khān at the S. end of the Demīr	
	Qāpū valley.	
	Route passes through cultivation, interspersed with thorn	
903	bushes.	
$\frac{36\frac{3}{4}}{37\frac{3}{4}}$	Cross an irrigation channel, 5 ft. wide by 4 ft. deep. Cross another canal, 90 yds. wide by 15 ft. deep, partly	
4	grass-grown, and with water-channel in the bed, 8 ft.	
	wide and 6 ft. deep, with steep sides,	
MES, III	K	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٢١٦] (٥٥ ٢/٢٣١)

Canal, which lies some distance to r. Abu Tamar, on the r. The soil is of soft crumbling clay which cuts up in wet weather. A little cultivation of the r. Cross irrigation-channel, 14 ft. wide and 10 ft. deep, trending NE. and SW., by a narrow palm-tree bridge, 2 ft wide. Leave T.L. and turn half r., passing some cultivation of the l. Several irrigation channels on the r., 12 ft. wide and 7 ft deep. Track again turns half r. Reach the bank of the Khālis Canal, 50 ft. wide and 8 ft deep, with banks about 40 ft. high. A few water-lifts Some cultivation on the l. bank, very little on the results of the results	146	LAND ROUTES
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2 m.p.h., its general direction being SW. Beyond Duzdyari r. bank of canal is followed; several water-cuts for the first 3 m., about 15 ft. wide and 10 ft deep. Small palm-tree bridges. Canal very tortuous and navigable for large boats. Water-cuts impassable for wheeled traffic, one being at least 20 ft. deep and 16 ft. wide. Pass Abu Delef (?), a few Arab mud huts on the r. (this place is called Abdul Latif in a report of the route made in 1903); some Arab tents (1903) on the l. Pass Abu Guveh (?), 50 mud huts on the r. (this place is called Abu Gharra in a report of the route made in 1903). Water-cuts to l. of road, 6 ft. wide and 5 ft. deep occasionally overflow (as in 1903) and make ground	02	here winds a great deal, and has a current of about
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1903). Water-cuts to l. of road, 6 ft. wide and 5 ft. deep occasionally overflow (as in 1903) and make groun	57	Pass Abu Guveh (?), 50 mud huts on the r. (this place
occasionally overflow (as in 1903) and make groun		



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٢٤٧] (٢٥٢/١٥٤)

	ROUTE 25 a	147
35/1 f	11001E 25%	147
Miles from Baghdad		
58	Pass Abur on the r., 60 houses with mud	valls: much
	cultivation irrigated by water-cuts to l. of ro	ad.
62	A few water-lifts along the Khālis Canal. Imām Seyyid Mohammed. Canal and road	hand to E
67	Delli 'Abbās. A village on the Khālis Car	pend to E.
	Jebel Hamrin. 300 houses (1903) with	some fruit
	gardens. Zaptieh post and garrison of abo	out 600 men.
	In 1903 it was reported that there was	here a brick
	bridge with three arches over the canal in	good repair,
	carrying an 11-ft. roadway passable for gur	ns. In 1910
	the bridge was reported to be 45 ft. long with one of stone, the other of wood. The Kh	i two arches,
	variously given as 60 yds. and 60 ft. broad	It is 8 ft.
	deep. Telegraph in 1903 reported as	not passing
	through village.	
	Supplies plentiful for small caravans. Wat	er abundant
	for any number from Khālis; good grazin 200 horses and 100 donkeys obtainable in no	ng and fuel.
		ormai times,
	Routes from Delli 'Abbās—	NAMES AND DESCRIPTION OF THE PROPERTY OF THE P
	 To Bāqūbeh and Baghdad by r. bank of the I See Route (i) above. 	
	 To Qarfeh (about ^γ13 m. to WNW.). No details m. 36½. 	available. See
	3. To Mansūriyeh (7 m.).	
	This route leaves Delli 'Abbās in an easterly dire along the foot of the Jebel Hamrīn and or	ction, running
	of the Khālis Canal.	
	At m. 2½, lake on the farther side of the Khāli	s Canal. The
	Diyaleh flows through this lake, leaving it the S.	
	At m. 5 Manswriyeh el-Jebel village on the	slope of the
	Hamrīn Hills. Route bends ESE. At m. 5 ³ / ₄ turn S., and cross the Khālis Canal a	bout ½ m. W.
	of the place where it takes off from r. bank of]	Divāleh.
	At m. $6\frac{1}{2}$ cross upper end of lake, near the pla Diyaleh River enters it from the NE.	ice where the
2511	At m. 7 Mansūriyeh (½ m. W. of this village i	s the head of
	the Khorāsān Canal which flows in a SW. Bāqūbeh, watering the country on the SE. o	direction to
	Kiver).	
	About 1 m. N. of Mansūriyeh the Diyāleh issues i defile through the Hamrīn range, which exte	rom a narrow
7-17	of m. to the N. There is no frequented route	through the
	defile, the most southern part of which is descripped assable for about $1\frac{1}{2}$ m. There appears	ribed as quite
	turning this part of the defile to the W.: but n	o information
- +	with regard to its practicability is available.	The central
	к 2	

"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٨٤١] (٣٢/١٥٧)

Miles from Baghdad portion of the defile is also very difficult, and is reported to be probably quite impracticable when the Diyāleh River, as one goes up-stream, turns in a NE. direction, and at this point it is joined by the Nahrīn Su, which flows from the NNW. along the foot of the NE. side of the Hamrīn Hills. Qizil Ribat lies about 79 m. NNE. of Mansūriyeh beyond the Hamrīn range, on the l. bank of the Diyāleh River and on the Baghdad—Khanikin road (see Route 28 a, m. 75). The section of this route lying between Qizil Ribat and Shahrabān passes 2 or 3 m. to the E. of Mansūriyeh. Mileage below calculated from Route (ii) to Delli 'Abbās. The Mosul route takes a northerly direction from Delli 'Abbās over slightly undulating desert. To W. is a marshy stream flowing to join the Khālis Canal near Delli 'Abbās. To E. the Jebel Hamrīn appears about 4 m. distant. The T. L. takes same general direction as the route, but apparently runs some distance W. of the usual track. The ground is boggy in places owing to a broken water cut.
portion of the defile is also very difficult, and is reported to be probably quite impracticable when the Diyāleh is in flood. At the N. end of the defile the course of the Diyāleh River, as one goes up-stream, turns in a NE. direction, and at this point it is joined by the Nahrīn Su, which flows from the NNW. along the foot of the NE. side of the Hamrīn Hills. Qizil Ribat lies about 79 m. NNE. of Mansūriyeh beyond the Hamrīn range, on the l. bank of the Diyāleh River and on the Baghdad—Khanikin road (see Route 28 a, m. 75). The section of this route lying between Qizil Ribat and Shahrabān passes 2 or 3 m. to the E. of Mansūriyeh. Mileage below calculated from Route (ii) to Delli 'Abbās. The Mosul route takes a northerly direction from Delli 'Abbās over slightly undulating desert. To W. is a marshy stream flowing to join the Khālis Canal near Delli 'Abbās. To E. the Jebel Hamrīn appears about 4 m. distant. The T. L. takes same general direction as the route, but apparently runs some distance W. of the usual track. The ground is boggy in places owing to a broken water cut.
Cross dry nullah. Cross line of small hillocks. Enter a valley in red sandstone hills called Jebel Hamrin, which close in. Ascent gradual. The ground near the road is very broken, conforming in this to the general character of this side of the Hamrin Hills. Sharp bend in valley. Qishlaq Suhānīyeh, fortified police post in ruins in 1903. (In 1910 there was a police post hereabouts, said to be 8½ m. from Delli 'Abbās, containing 15 men: it had one well.) Small stream, slightly brackish but drinkable. Only a few inches of water in January 1903. Ravine 20 yds. wide 20 ft. deep, with a pebbly bottom. Boundary between Baghdad and Mosul Vilayets runs in the neighbourhood. An authority states that between this point and the highes ridge about 5 m. distant lies a series of small paralle crests rising to a height of 30-35 ft. above Suhānīyeh a intervals of 175-250 yds. Another authority says that the hillocks rise to not more than 200 ft. above the track. For the next 5 m. the route winds among the undulating



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٩٤١] (٨٥ ٢/٢٣٤)

		0
	ROUTE 25 a	149
Miles from Baghdad		
	600 ft. above the plain, is reached. The last	100 yds. of
	the ascent are steep and pebbly. T.L. rejoin	s the route
	near this point. (One account makes the summit of the pass 6 m.)	ascent to
81	Descent on N. side of Jebel Hamrīn begins. The	nis is much
	easier than the ascent on the S. side, and the	e route pre-
	sents no difficulty for guns. Good grazing	ground (in
83	spring?) on this slope of the hills was reporte	ed in 1873.
00	Enter open cultivated plain, the valley (8 m. v. Nahrın Su, which flows SE. to the Diya	leh. (One
	account makes the descent from the pass 3 m.	in length.)
00	Road boggy in wet weather.	
88	Nahrīn Köprü: brick bridge across Nahrīn Su: in fair repair. Channel 60 yds. wide, but	hve arches
	(25 ft. wide) in January 1903. In the winter	r of 1909-
	1910 water 50 ft. wide, 6 ft. deep. (One acco	ount places
	this bridge 5 m. from summit of pass and 2 m	n. from foot
	of hills.) Two villages, both called Nahrīn, 3/4 m. from	the builder
	containing together 300 houses well built of r	nud.
	Four or five villages of about 60 houses each	higher up
	valley.	
	The valley of the Nahrīn is fertile in this region and	d fairly well
	cultivated (the crops were chiefly millet in 1873), but from Kurdish raids. About 12 m. above the bridge	has suffered
	enters it from the NE. Above the junction of the K	Jufri Su with
	the Nahrīn Su the valley runs up NNW, between the Jebel Hamrīn and the Kufri Dāgh, and become	he rangee of
	cultivation for about 22 m., and for the most part	uninhabited.
	Though it becomes narrower it is still some miles braises in a gradual slope from about 500 to about 75	0 ft. towards
	its head: the Hamrin Hills on the l. rise to nearly the Kufri Dāgh on the r. to about 1,000 ft., at their hi	1,200 ft., and
	The valley is entered by a number of streams, which i	oin the main
	Dereh or Neft Dereh. The bed of this main channel	led Chinchal
	as only occasionally containing water, but there is m	uch naphtha
	in it, as also in the hills to the N. In the upper valley (possibly 18-20 m. NNW. of the mouth of the	part of the
	appears to lie a large village of Biyat Arabs. Abou	it 21 m. from
	the Kufri Su junction (in the neighbourhood of a village) the valley leads by easy stages into a mo	nother Biyāt re populated
	plain, covered with ruined villages and tombs, and	bounded on
	the NE. by a line of hills (Neft Dāgh) at the foot of the Baghdad—Mosul road (17 m. from Kufri, 8½)	which runs m. from Tūz
	Khurmatli).	J. J. VALL & G.D.



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٥٠١] (٩٥٢/١٣٤)

450	TAND DOTTINES
150	LAND ROUTES
Miles from Baghdad	
	Qara Tepeh is visible, lying about N. by E. from Nahrin
	Köprü, but cannot be reached directly owing to swamps. Route goes N. from the bridge.
91	Route bears easterly to—
95	Qara Tepeh, about 300 houses on the SW. slope of the
	Kufri Dāgh. Seat of a Mudir and zaptieh post (100
	men in 1910). Several gardens on the E. side of the
	village. More Shiahs than Sunnis among the inhabi-
	tants. One khan (100 × 50 yds.) in good repair (1903) and stabling for 200 horses. The building is of solid
	brick. Large well-built granary, in the shape of a khan,
	to the r. Supplies plentiful for small caravans. Sheep
	and goats obtainable. Good grazing and fuel. Abundant
	water from wells. Vineyards beyond Qara Tepeh.
	Numerous streams in this neighbourhood, gravelly downs
	with plenty of grazing between Qara Tepeh and Kufri.
	Numerous flocks of sheep in winter and spring.
	Track leaves Qara Tepeh, going about NNE. and ascending
$95\frac{1}{2}$	rolling downs. Cross an irrigation canal, 14 ft. wide, 2 ft. deep (January
002	1903). Broken brick bridge.
100	Direction about NE. by E. (60°).
101	Top of downs.
103	Track goes about N. by E.
100	Chemen Köprü: brick bridge of six arches in good repair (January, 1903) over a stream flowing W. (Another
	account, of 1910, gives five arches.) In January 1903
	the water was 18 yds. wide, muddy and sluggish, flowing
	among reeds. Country in neighbourhood of track between
104	this point and Kufri is well cultivated. Cross a stream flowing SW. to join the Kufri Su. It has
101	little water except in spring. Remains of a brick bridge
	with only two centre arches standing. The r. bank is
	steep, the l. sloping. Banks would need to be repaired
	for guns. After much rain a bridge would be necessary: no materials locally available. The bed is 80 yds.
	wide.
	Cross some broken ground, with small ravines, on leaving
	the stream. Then across a wide plain of soft sandy
	loam, with much cultivation on both sides. Several villages of about 50 houses each.
	Thages of about of houses each.



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٥١١] (٣٢/١٦٠)

	ROUTE 25 a	151
Miles from	10011 204	401
Baghdad 107	Cross the shingly bed (300 yds. wide) of the	Kufri Su
107	(or Chechepan). Little or no water except in	
108	Track turns E. (?) towards two large mounds, I	
109	Track turns N. by E. again.	
110	Teleshān on the other side of Kufri Su vall	
	crosses some low hills ascending by easy bearing due N. after 2-3 m.	gradients,
115	Road reaches the crest and continues over r	nearly level
	ground for about $1\frac{1}{2}$ m., when a gradual desce	
	Salāhiyeh begins.	
	Cultivated plain. Several villages. In this if field of Eski Kufri.	region ruin
117	Salahiyeh (Kufri). For coal in neighbourhood	, see p. 371.
	On leaving Kufri, for the first 8 m. the Mosul	
	WNW. about $\frac{3}{4}$ m. from the foot of a qu	
	(Jebel Dā'ud) to the r. The height of the	
	variously estimated at 100-150 ft., and at a the l. the ground falls gradually to the both	
	valley. To Tūz Khurmatli and for 5 m.	
	track is throughout commanded by long-ran	ige rifle-fire
	from the Jebel Dā'ud. Troops and trans	
	march farther away from the hills, but wou ground softer and would have to close in o	
	track at the wadis mentioned under m. 125 a	
	From Kufri to a point 8 m. beyond Tuz Kh	urmatli the
	route lies through a grassy undulating cou	untry, with
	several streams and nullahs which usually l sloping sides (but see under m. 135). Abo	out 4-5 m.
	to the S. lies the N. edge of the Kufri Dāgl	h, of which
	this part seems to be known also by the nar	me of Jebel
	Koruk. The T.L. follows closely the 1. s	
	road. In spring there are numerous encan Biyāt Arabs in this region.	upments of
125	Mouth of gorge in the ridge to the r. This c	ontains the
	shingly bed of the Koru Su (200 yds. wide)), which on
	leaving the hills takes a SE. direction. It is	isually con-
	tains only a few pools of water. The l. ban sloping and low, the r. higher and steeper.	k is gently
	Village of 100 mud-walled houses 3 m. to t	he l. (lower
	down the course of the Koru Su?). The line	e of hills on
	the r. approaches to within 200 yds. of the ro	
	Beaten track, leading N. into the hills, cross	ses the road



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Miles from Baghdad	LAND ROUTES
Baghdad	
	in this neighbourhood. It seems possible that it follows
	the valley of the Koru Su. It is said to lead in 5 has
	(? +15 m.) to a settlement near the Aq Su of 1,000 households of Dā'udiyeh Kurds, whose chief is Samīm
	Bey. These people are apparently warlike semi-nomade
127	Gharren Hill on r., with white patch. Hereabouts the floor of the valley apparently slopes to the NW., and
101	there is little or no cultivation.
131	A branch track takes off to r., leading across hills to Abu Sarkāl oil-springs, situated in a maze of rugged ridges and valleys, through which it is difficult to find one's way. There are about seven borings altogether, situated on both sides of a small ravine. Near them stands a small fighting-tower. The springs are said to yield about ten donkey-loads of oil daily, and the load sells for 2s. to 2s. 4d. at Tūz Khurmatli. The principal pit is 15 ft. in diameter, and 25-30 ft. deep. The oil is brought up in goat-skins by men who clamber down for it. The springs are the property of the Dā'irat es-Sanīyeh. In the neighbourhood are some rock dwellings cut in the face of the cliffs, and near the springs is an open plain in the hills. Here were in April 1910 two households of Na'aim Seyyids, who had then been settled here for about thirteen years.
134 135 $137\frac{1}{2}$	From Abu Sarkāl a beaten track, made by the oil caravans, leads to Tūz Khurmatli, a distance of about 6 m. Some cultivation. In this neighbourhood a wadi is crossed, at which blasting would be necessary to enable guns to pass. In this neighbourhood the tracks from the valley of the Neft Dereh join the road on the l. Head of the Neft Dereh valley 2 or 3 m. to the S.
	Khasradālah, village of Bīyat Arabs (100 households), 2 m. to the 1.
$141\frac{1}{2}$	Āq Su (white water) (Āv-i-Spi in Kurdish, Nahr Abyadh in Arabic). This river here flows in a SW. direction
	over a gravelly bed, $\frac{1}{4}$ m. wide, usually containing little or no water. Its banks are easy and about 15 ft. high, the left being the higher. Usually the stream is easily fordable, but it rises rapidly, and is dangerous



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٥٣] (٢٣٢/١٦٤)

	ROUTE 25 a	153
Miles from 1	100112 20 a	100
Miles from Baghdad	when swellen with usin on malted snow for th	ioro aro
	when swollen with rain or melted snow, for the several holes in the bed. It may in a few hours	
. 1	a broad and impassable torrent, and then with	n equal
Manag	rapidity sink to fordable dimensions. Men and	
	are sometimes drowned in it. On the l. bank as water-channels, each 6 ft. wide and 10 ft. deep,	
The same of the sa	small brick bridge about 4 ft. wide over each.	
	water-cuts without bridges occur between the ri	ver and
00000	Tūz Khurmatli. The Āq Su has its head near Kitshan on the S	S. slope
a diameter of	of the Qara Dāgh, apparently about 47 m. ENE.	of Tūz
*	Khurmatli, above which place its course lies to low, broken hills, scored by ravines which open	
	valley. As it approaches Tūz Khurmatli it flows t	
Alebori	a gorge under the comparatively high Neft Dāgh	on the
	l. bank. Much of its water is used for purposes gation in the neighbourhood of Tūz Khurmatli.	
THE REAL PROPERTY.	it turns SSW. and flows through a plain to j	
Maring Int	'Adheim River about 11 m. away. Its junction	
	the 'Adheim is near the edge of the Hamrīn Hills the middle of the valley which the latter stream	
Harris .	through that range. For the last 5 or 6 m. of its	s course
	the Aq Su skirts the S. end of the great mars flooded in spring by the 'Adheim and its tributar	
1421	Tūz Khurmatli ('Salt and Dates'). Pop. ? 3,000	
A	600 houses). T.O.? The town lies at the me	
/1	the defile between the Neft Dagh and the 'Ali which is traversed by the Aq Su. This defile	
	leads in the direction of Suleimāniyeh, was guar	rded by
	an old fort, now apparently ruinous. The houprincipally mud-built, with some of stone. The	
History	two khans in the centre of the bazaar. One kl	nan has
	an upper story for half its circumference; but are no doors, and for windows only holes in the	
to other	Water scarce in lw.; one spring in hills:	grazing
10 3 2 3	good. Fuel plentiful. The plain in the neighbor	ourhood
TENERAL S	seems to be fairly well cultivated. There is industry of some importance in the refining of o	
ALLENT TO	the adjacent hills. There are about twenty stills	outside
	the town (six working in 1910). Oil is sent to Sa (Kufri), Kirkuk, and Suleimāniyeh, and occasion	
Sept.	far as Mosul. A petroleum spring is marked or	recent

"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [١٥٤] (٣٢/١٦٣)

spring S. of the town salt is obtained by evaporation. The working of the salt-pans is Government property. In 1909, 400,000 kilos of salt were taken; and the selling rate was approximately equal to 7s. 7d. per 10 kilos. The inhabitants are for the most part Turks, with som twenty households of Jews. The place is the centrof a nahiye under a Mudir, and there has been usually a Turkish military post of about 200 men. On leaving Taz, the route takes a NW. direction (320° crosses two small nullahs, passes some gardens, and for the first 2½ m. runs through a little cultivation. The hill to the r. are rather lower. The 'Adheim River, bordered by a great belt of swamp which is flooded in spring, is about 7-8 m. to SW., beyond which the Hamrin Hills are visible. The road is on the whole level and good going as far as Dahuk. Two villages on the plain are passed (1903). Road here is rising. The hills to the r. converge towards the road and die away; but mounds continue near the road for 3 m. farther. Al Bū Sabāh village (200 houses of Dū'udiyeh Kurds 2-3 m. SW. by W. of this point. A path crosses the road leading from this village to the Dū'udiyeh settle ment to the E. near the Aq Su, mentioned under m. 125. Other villages are reported to be visible in the plain to the W. Road reaches highest point of the gradual slope which it has been ascending for some miles. Mound on r. of road. Quru Chai, water-course running SW. from the hills on the NE. to the 'Adheim River, which it joins 9½ m. SSW. The Quru Chai is rarely a continuous stream, but rain or melting snow may convert it into a torrent presenting a serious obstacle at least for a few hours. In general character it is similar to the Aq Su. It has	154	LAND ROUTES
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		a pebbly bed 300 yds. wide, and there was a pool $\frac{1}{2}$ m. up-stream from this point in January 1903, while there



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	(80)
	ROUTE 25 a 155
Miles from Baghdad	
Dagnaau	were several pools in the neighbourhood in April 1910.
	The banks are quite low and the passage is easy.
$151\frac{1}{2}$	A second arm of the Quru Chai, about 100 yds, wide, is
	said to unite with the first at a point a little farther to the W.
	During the next 10 m. between the Quru Chai and
	the Dahuk Chai a few water-courses, usually dry and
	with easy banks, have to be crossed. There are now some low hills to the r., beginning at a few miles dis-
	tance, gradually closing to within 1 m. of the road, as
	the Dahuk Chai is approached. The road first covers
	slightly undulating ground and then ascends a long gradual rise. Direction about NNW.
156	About this point a village of Dā'udiyeh Kurds under Namūk
	Agha lies WSW. 2–3 m. distant. It contains about 300
1591	houses.
$158\frac{1}{2}$	Top of the long rise. In the hills to the E. are some settlements of Dā'udiyeh
	Kurds, one of which is Shoraweh (50 houses) about
	1 m. from the top of the long rise above mentioned.
	To the W. is a conspicuous mound, about 3 m. distant. A group of trees, rather nearer and a little N. of W.; at
	this grove is said to be a village called Iftighār, 300
101	houses of Kurds under Namūk Agha (1910).
161	Ruined tower and house on mound. To l. of road small canal 6 ft. wide bringing water from Dahuk Chai.
$161\frac{1}{4}$	Dahuk Chai, in a shingle bed 800 yds. wide. There is
	always some water in the Dahuk, and in winter and
	spring the stream flows in several channels, the width of which varies according to the season and weather: the
	broadest was reported as 15 yds. wide in January 1903,
	and as 40 yds. wide in April 1910. The current in
	January 1903 was 6 m.p.h. The river is unfordable
	when at its highest, as after rain, but sinks rapidly. The r. bank is 20 ft. above the bed, and the l. about 10,
	the r. being generally the steeper. For guns and trans-
	port the descent to and ascent from the river-bed would
	need improvement. The Dahuk flows to join the 'Adheim, of which it is the
	the largest affluent. It rises from the W. spurs of the
	hills SW. of Suleimāniyeh.
	It flows in a formidable torrent when in spate, and brings



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down at times such a large and rapid volume of water that it has made for itself below Dahuk village a bed about 1 m. in breadth. The Dahuk is the boundary between the territories of the Da'udiyeh Kurds in the SE. and the Talabānīyeh in the NE. The latter are accounted Seyyids (of the blood of the Prophet), and are turbulent and predatory. Between the Dahuk Chai and Dahuk village are several water-channels, some of which are as much as 20 ft. deep and 20 ft. wide: all are crossed by palm-tree bridges, but these are not more than 4 ft. wide. Dahuk village. Just before entering the village there is some high ground on the 1. on which stands the minaret of an old mosque which has disappeared: the tower is a conspicuous landmark. The village tontains about 200 houses. Water from the the Dahuk Chai is good and plentiful. Grazing good fuel poor. Inhabitants were reported in 1873 to be Turkomans: in 1905 there were more Shiahs than Sunnis among them. A canal from Dahuk Chai runs through the village. The place is the seat of a Mudir, with a zaptich post. 1½ m. NE. of Dahuk is the shrine of Zain el-Ābidīn, with one large and three small white domes and a few houses of Seyyids beside it. This shrine is a conspicuous landmark. From Dahuk a route, reported to be easy, leads over the low hills in a NNE direction to Leilan about 25 m. distant. From Leilan there is a track over the grassy plateau of the Makanjeh Bajch of Chemchemal (about 24 m. NE. of Leilan). Here the high-rod from Kirkuk to Suleimāniyeh, which is accompanied by a LL., is joined. See Route 37. The country between Dahuk and Chemchemal is open, but contains numerous gravelly undulations and ravines, and many small streams. Villages are few owing to Kurdish raids. For a shorter route from Dahuk to Kirkuk see m. 1644 below. From Dahuk the route runs in a general direction NNW. over rolling downs, accompanied by T.L. Track easy: only slight repairs needed here and there for guns. A considerable ridge is crossed. Villages 2-3 m. to SW. of road, Tepeh (40 ho	156	LAND ROUTES
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"كتيّب بلاد الرافدين. المجلد الله ١٩١٧ [٥٠١] (٢٣٢/١٦٦)

		ROUTE 25 a	157	
Miles from			197	
Baghdad 1643	A few wa	ater-ents with names -1 1	.,	
1014	cultivate	ater-cuts with narrow palm-tree by ted plain: hills $1\frac{1}{2}$ m. to right.	ridges. Open	
	At a point	t some distance beyond this ridge a t	rack branches	
	10 I. III	a general N. direction to Kirkuk x	which har this	
	way is a	about 10 m. distant. The way by t	he main road	
	followin	nakes a détour to the W., is about 5 m	I. longer. The	
		of the shorter for	id to Kirkuk:	
	Hrs. Min.			
		oss the ridge mentioned above.		
	1 55 Aft	ter passing on the l. Matareh village	e (so called in	
	1	Kurdish: Arabic name Ma'amareh: $50-60$ Seyyids, see m. $168\frac{1}{2}$) this shorter route to	houses of Arab	
	20	a small sningly stream and enters low hil	ls.	
	li	eminence is reached, from which Matar little S. of SSE.		
	2 38 And	other eminence, from which Dahuk lies the S. of SSE.	a very little to	
	2 43 In	the hills to the l., and not far off, is	s the village of	
	0	Shirinjeh Balaq, consisting of 50 houses of scent from the hills begins, and Kirku	of Talabānīveh.	
	a	mout due N.		
	to	ndaneh village (70 houses of Arabs and to NW. of W. at $1\frac{1}{2}-2$ m. distance.	Kurds) is seen	10.0
	5 50 The	e road emerges from the low hills.	M1-1\	
	ir	all clear stream called Qara 'Ali Chai (Khō in a deep ravine, is reached. The descent	from the water	
	to	o the S. bank is steep. There is a mill no 1910). On ascending the farther bank	ear the crossing	
	0 -0 - 4	ara All appears to the NE.		13.1
	30	ss Qara 'Ali village (100 houses of mixed 000 yards to the r. of the road.		13.8
	4 0 Tar	rjil village (200 houses of mixed Kurds) way, ENE. To the r. Qara Hasan H	is visible 4 m.	111-1
	IN IN	N. to E.		-311
	4 18 A s. 4 20 an	small water-course (dry, April 1910) is r nother 2 mins. on the l. side of the road is	eached, and in	33 1
	VI	Illage of Tokmakli (about 60 houses).		111
	To	shingly bed 70 yds. wide (Chai Tokmal to the WNW. at $1-1\frac{1}{2}$ m. are three villa	iges called col-	
	le	ectively Sari Tepeh (200 houses of mixed covered-in well, Sabīl Khaneh, on the ro	Kurds).	
	ar	n Arab village of 50 houses, lies about	2 m. off ENE.	101 #
	7 15 Kirl	Cirkuk is due N. Cultivation near road i	nto Kirkuk.	10.8
1651				13 B
1002	to l.	afa village and others at some dista	ance in plain	31 1
				110-11



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٥٨] (٢٣٢/١٦٧)

158	LAND ROUTES
Miles	rom
Bagh 168	
	of a low line of hills.
171	The Setal Dereh is crossed: a ravine 10 ft. wide and 5 ft. deep. Transverse track to villages on r. and l. about 4 m. off.
171	
173	Nullah (Matareh Dereh?): 100 yds. wide: dry in January 1903. Villages to the l. on the plain.
176	Cross numerous stream-beds, usually dry. Qara 'Ali, or Khōr, Chai: 12 ft. wide, 2 ft. deep (January 1903), in a pebbly bed 60 yds. broad. This water.
	course comes from the direction of Leilan (ENE., see alternative route under m. $164\frac{3}{4}$), and near this point
	turns S. to join the 'Adheim River (6-8 m. away) at the N. end of the Hamrīn 'Adheim marshes. The valley of the
	Qara 'Ali Chai above this point apparently contains a practicable route.
	Taza Khurmatli on the r. bank of the Qara 'Ali Chai, near a high mound about 100 ft. high. The place contains about 100 houses. Good water and camping ground. The country round is marked by a number of tumuli. The 'Adheim River, which from the N. end of the marshy belt above mentioned is known under the name of the Hasa Su, flows in a S. direction about 1 m. W. of the
	village. There are some villages to the SW. of Taza Khurmatli between the Hasa Su and the Qara 'Ali Chai. From Taza Khurmatli the road runs in a general NNE. to NE. direction. Hills at first lie close to road on the r.; then after ½ m.
179	through walled gardens and over water-cuts, some low hills are crossed. The country is open but rather stony. Cross the Hasa Su (almost dry in January 1903), in a bed 300 yds. wide of shingle and sand. The Hasa Su (upper course of 'Adheim River) is formed
	by a number of torrents in the hills NW. of Chemchemal, and runs in a great curve to the W. to Kirkuk, whence it takes a S. by W. direction till it becomes known as the 'Adheim River below its junction with the Qara 'Ali (see m. 176).
	At this point the river leaves the last of its defiles (2 or



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٥٩١] (٣٢/١٦٨)

		(82)
	ROUTE 25 a 159	
Miles from		
Baghdad	3 m. broad) and enters the plain. It has little or no	
	water, except after rain or the melting of the snow.	
	Chardakli village in plain to W. Mound on the r. bank of river, 200 ft. high, with a	
	guardhouse on the top.	
$179\frac{1}{2}$	Pass some cultivation and skirt the river-bed. To the r.	
	the valley of the Hasa Su opens out into the broad valley	
	of Leilan . The village of Leilan is 15 m. to the E. To the l. is the low ridge of the Chardakli Dāgh.	
181	Slight descent towards Kirkuk begins. The r. bank of the	
	Hasa Su is still followed. The country is undulating,	
	the track easy, and on both sides of the road there is cultivation. T.L. to the l.	
$183\frac{1}{2}$	The bed of the Hasa Su is here 1/4 m. to l. When dry it	
1071	may be used as an approach to Kirkuk.	
$187\frac{1}{2}$	Kirkuk. Between Kirkuk and Altun Köprü (*25 m. NNW.) is	
N	a range of hills of moderate height, variously marked as	
1	Jebel Gurgur or Shamaskin Dāgh, which run from	
	WNW. to ESE. The E. end of this range is known as Bābā Gurgur. To the S. of this eastern end are a number	
	of low ridges divided by gravelly ravines, which lie to	
	NW., W., and S. of Kirkuk. The watershed between the	
	Hasa Su and the Lesser Zāb lies among these ridges about 10 m. from Kirkuk. On the NE. side of the	
	Jebel Gurgur is a valley between these hills and the	
	Shuan Dāgh. At the lower end of this valley is Altun	
*	Köprü town, and it is drained by a stream-bed called by some authorities the Mayar Dereh (see m. 208½ below),	
	which joins the Zāb about 2 m. below Altun Köprü.	
	A traveller who crossed this stretch of country in 1909 says that there are three roads between Kirkuk and	
	Altun Köprü. The safest, though not the shortest, was	
AL SERIE	that which kept to the W. to avoid raiding parties of	
	Hamawands, via Tepeh Köi and a ruined khan before	
	crossing the hills. As far as can be gathered from reports and recent maps there are several possible	
-	tracks both on the S. and N. sides of the Jebel	
	Gurgur. Besides the pass over the hills mentioned under m. 198½, there is apparently another pass by	
1115 715	Shamaskin.	
	Leaving the Korieh suburb of Kirkuk on the r. bank	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٦٠١] (٣٢/١٦٩)

160	LAND ROUTES
Miles from	
Baghdad	of the Hasa Su, the road passes the large village of
	Shatarli (200 houses, with leaning minaret), proceeds through cultivation for 2 m. in a WNW. direction. It then crosses low stony downs.
192½	Bābā Gurgur Pass. This place, which lies a little to the r. of the road, is a slight hollow in some high ground, about 50 yds. by 20 yds., and there are some twenty
	vents of natural gas in it. These are generally alight unless artificially extinguished. If one of the vents be stopped with earth, the gas usually escapes at some other place near by, where it can be lighted with a match.
100 (0)	There is a strong smell of sulphur in the air.
193 (?)	A little farther on beyond the gas-vents in the same direction from Kirkuk, but quite near the road, are four to five oil-pits called Diār (wells). (These wells are marked 6½-7 miles from Kirkuk in a recent map of the
	road, but they have been reached in 1 hr. 10 minutes from Kirkuk, and are described as 'just beyond' Bābā Gurgur). They are the property of Sālih Pasha, and are said to yield eight donkey-loads (say thirty-two tins)
	of crude oil daily. The pits are situated on a slight hill, and are 12–15 ft. deep. The water is separated from the oil at the wells, and the oil is afterwards refined at Kirkuk. There is a sulphurous spring in the hills, a little farther on than the oil-pits.
	The road to Khān en-Neft, as described below, may be somewhat NE. of the main road. Another track, followed in 1903, passed the ruins of Khān Hangia over broken country by a stony track which required
	improvement for wheels. The Bābā Gurgur sandstone hills are now entered (Qarachok mountain, with two peaks, lying WNW.) and the top of the outer ridge followed for some distance.
1941/4	After 23 min. ride, Bajiwan (30 Kurdish houses) lies $1\frac{1}{2}$ m. SW. by S.; Bataweh (150 houses of Turkomans) 3 m. SW.; Qumbatlar (120 houses of Turkomans) about 4 m. SW. by W.; and Choprijeh (100 houses of Turkomans) $2\frac{1}{2}$ m. W. The Jebel Makhul, on the other side of the Tigris, can be seen to SSW. at a great distance.
1943	Road continues along outermost ridge for 8 min. Road bears N. by W., crossing the strata diagonally and making for an inner ridge of hills.



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٢٦١] (٣٢/١٧٠)

		(88)
	ROUTE 25 a	161
Miles from Baghdad		
196	The nearer peak of Qarachok lies W. by N. fro	m about
	this point. The road runs now NNW.	
197	Cross ravine containing water, and zaptieh pos	t called
N. W. W.	Khān en-Neft. Road runs in a general N.	by W.
1981	direction to the pass over the inner ridge. Cross summit of the inner ridge of the Jebel (Inronr :
1002	very steep and pebbly ascent and descent for 1/4	m. each
	side were reported in 1903. The track is 12	
	This is the watershed between the Hasa Su Lesser Zāb. The plain of the Mayar Dereh can	
	looked as far as the Lesser Zāb.	
	From the pass the following villages were observed: 1910:—Kalwur, NE. by N., Daraman el-'Aliyel	
	Daraman es-Sifieh, E. by N. The road desc	
	the plain in a general NNW. direction. There appear to be a number of alternative	trooks
I	from the pass to Altun Köprü. In the late	
	made of the route (1912) the main road is sl	nown as
	running through Ki Bibaneh and Gök Tepeh, and the Mayar Dereh about $2\frac{1}{2}$ m. from Altun Kö	
	does not exactly coincide with either of the	
	described below. From the further side of Jebel Gurgur a tra	alz londs
Ma hall	NNE. to Köi Sanjag, crossing Lesser Zāb by	
	(impassible in winter) at foot of range bound	
*	Shuan country on W., and continuing over easy f below which water is found, to a pass from wh	
1	Sanjag is visible.	
101444	Route (i)	
9001	The following account is taken from a report of	
$ \begin{array}{c c} 200\frac{1}{2} \\ 201\frac{3}{4} \end{array} $	Descend from pass to plain. In 40 min. Kalwur lie Kalwur village, $\frac{1}{2}$ m. to r.	s due N.
$202\frac{1}{2}$	From this point Bibaneh Zughair (15 houses) is	1 m. N.
	by E. Bibaneh Zardak (20 houses) is about 3 m. NE. by	N
T. Silver	Bibaneh Kebīr (60 houses) is about 4 m. NE. by I	
207	The road runs NW. by N. T.L. now on l.	
	In 1 hr. 35 min. from Kalwur a point is reach which the prominent mound of Gök Tepeh is	
	N. Nebī Aweh (30 Kurdish houses) 1 m. W.S.	
MES, III	L	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٢٦١] (٢٣٢/١٧١)

	162	LAND ROUTES
	Miles from Baghdad	
		In the country through which the road now passes
		are a number of villages inhabited by Sawalih (or Salihi) Kurds. There are said to be about 30 villages
		of this tribe in all.
	$208\frac{1}{2}$	The road crosses a small clear stream in a shingly bed
		called by the Turks Injesūi and by the Kurds Galal (so reported in 1910. This may be the stream marked on
		maps as Mayar Dereh).
	$209\frac{1}{4}$	Road crosses two small canals spanned by small bridges.
	2101	Kitkeh village about 2 m. to SW. Broad depression followed by a stony ascent.
	$211\frac{1}{2}$	Road crosses a small dry shingly ravine called Qara Chai
	ai di di	in Turkish and Wishkakhan in Kurdish.
	$211\frac{3}{4}$	From this point the whole way to Altun Köprü is downhill.
	213	Altun Köprü town.
		Route (ii)
		The following account of another track is taken from a report of 1903:—
	$199\frac{1}{2}$	Foot of the hills. Open cultivated plain extending about
HIM		10 m. in all directions and up to Altun Köprü.
MINNI.		Five or six small villages in the plain to the r. The road turns to the l. from the foot of the pass and
11111111		runs parallel to the hills at a distance of about 2 m.
IMMIN	901	Track level and good, through cultivation.
MINN	201 $203\frac{1}{2}$	Small stream of good water to r. Small copse. Pass small village on l. $\frac{1}{2}$ m. off. Several villages to r.
	-	2-3 m. off.
	204	Karez with good drinking water on either side of the road.
	206	Copse on r. T.L. parallel to the road on the l. (?). Mound 100 ft. high to r. (This is possibly to be identified
		with the mound called Gök Tepeh by a 1910 authority.)
		Some copses about \(\frac{1}{4}\) m. from the road. Small village
		2 m. off to l. Cultivation on both sides of the road. Hills 4 m. to l.
	208.	Cross small stream. Copse on r. Country undulating.
	209	Pass two streams on r. near road, the larger indicated by a
	211	line of trees along its banks. Over stony downs to Altun Köprü. T.L. 1,000 yds. to l.
	215	Altun Köprü (bridge).
1843		



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	ROUTE 25 a	163
Miles from	10011 25%	100
Baghdad	(Mileage continued from Route i, above.)	
	The Baghdad—Mosul road leaves Altun Köprü in direction up the valley of the Injesūi , a tributat	a NNW.
	Lesser Zāb. This valley contains corn-land,	and is
	enclosed on either side by low hills, which	form a
	semicircle to the front. Those I. of the road ri	se about
2141	500 ft. above the road; those to r. are lower. Pass a copse (1903) on l. of road. General char	racter of
4	country to Qush Tepeh is open, fairly well cu	ltivated,
015	undulating to hilly. Road is stony but easy.	
215	Apparently in this neighbourhood the line of the circle of hills which close in on the river is reach	ne semi-
	Direct Mosul road avoiding Erbil turns I. (So	Report
	on Route, 1910: W.O. Map, following a des	scription
	of 1873, marks this route as diverging about farther on.) It is described as an easy route	through
	fairly well-populated country: water from we	ells and
A WA	streams. For Zāb ferry at Quweir see p. 69.	2-1-07)
	The track to Makhmūr and Qal'ah Sherghat (see I is marked on map as diverging to the I. about	t. 11 m.
	farther on: but further information on this poin	t should
	be obtained.	
1.19	In this neighbourhood a bend of the Injesūi is ap crossed (28 mins. ride from Altun Köprü):	parently
in the second	bend is crossed 4 mins. later, and a third	touched
The III	3 mins. after the second. In April 1910 the	re were
He I am	only a few inches of water in the stream. Apparently there is an alternative track over the	downs
	to r. not far from the river: it crosses the be-	d of the
	Ilinjak Chai, a tributary of the Injesūi (20 f 1 ft. deep in February 1903).	t. wide,
2161	Direct Mosul road about ½ m. l. (?). Near it is the	hamlet
	of Makhsumeh (12 Kurdish houses). Between	
2171	roads is a mill. Open undulating country. T.L. (two wires) cross	you from
	l. to r. of the road.	SES TIOTH
218	Descent into hollow; bend of Injesūi is touched.	(In this
	neighbourhood is the Birinji Chai, a mountain entering the Injesūi on l. bank. There were 90	torrent) vds of
mint.	shingle and about 2 ft. of water in pools in F	
	1903.)	
	ь 2	



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164	LAND ROUTES
Miles from	
Ascend shingly slope, and strike into stony downs, NNW. from Altun Köprü. The valley and rive the Injesüi now disappear to l. This is the country of the Dizeih Kurds. The villages to r. and l. of the road. 1 m. W. Marken Sheikhān village (50 houses), apparently on or the direct road to Mosul. Cherkuchan (20 houses) lies 1½ m. to E. Erbil is said to lie Nof this point, out of sight. T.L. recrosses from r. to l. of the road. Country of undulating, the track fair, rising to high fee downs. High ground is reached about ¾ m. (1 ride) beyond the point where the T.L. recrosses the no special features were seen from it. Small stony hollow crosses the road from r. to l. Second small stony hollow. High ground from which Altun Köprü lies to S. Bāsh Tepeh, whitish mounds, to SW. in valley Sazeh, 40 houses of Dizeih Kurds, 1 m. SW. Kasikhān, 20 houses of Dizeih Kurds, 4 m. SW. on the other side of the Injesti. (From about here a shorter track to Erbil divers from T.L. and main road. It passes Hamzak basha, Mulka, and Qara Chinaga. It is about Erbil by this way.) Depression, 100 yds, across. Qūl Tepeh village, 2	This is the country of the Dizeih Kurds. There are villages to r. and l. of the road. 1 m. W. by S. is Sheikhān village (50 houses), apparently on or close to the direct road to Mosul. Cherkuchan (20 Kurdish houses) lies 1½ m. to E. Erbil is said to lie N. by W. of this point, out of sight. T.L. recrosses from r. to l. of the road. Country open and undulating, the track fair, rising to high featureless downs. High ground is reached about ¾ m. (10 mins ride) beyond the point where the T.L. recrosses the road no special features were seen from it. Small stony hollow crosses the road from r. to l. Second small stony hollow. High ground from which Altun Köprü lies to S. by E. Bāsh Tepeh, whitish mounds, to SW. in valley; Dōlar Sazeh, 40 houses of Dizeih Kurds, 1 m. SW. by S. Kasikhān, 20 houses of Dizeih Kurds, 4 m. SW. by W. on the other side of the Injesūi. (From about here a shorter track to Erbil diverges to r from T.L. and main road. It passes Hamzakōr, Kelebasha, Mulka, and Qara Chinaga. It is about 18 m. to
$227\frac{1}{2}$	Depression, 100 yds. across. Qūl Tepeh village, 25 house of Dizeih Kurds, 1 m. WSW.; Hamzakōr village, 15 houses of Dizeih Kurds, 1½ m. E. by N.
$228\frac{1}{4}$	Qul Tepeh mound, 60 ft. high (in April 1910 covered with
23034	parley). Qush Tepeh mound (at some distance to l. of main road) from which about a dozen Dizeih villages are visible within a radius of 6 m. The most important are Qusl Tepeh village (100 houses, 1½ m. W. by S.), Girdamak (60 houses, 1 m. to E.), and Mirghuzar (70 houses, 5 m WNW.). At Qush Tepeh good and plentiful water car be obtained from two karez. Other villages and black tent settlements in the distance. At a village about 10 m WSW. near the direct Mosul road lives Ahmed Pasha recognized by the Turkish Government as the official head of the Dizeih. An influential Dizeih chief, Mahmud Agha, lives at Girdamala (1910).



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		(85)
	ROUTE 25 a 16	5
Miles from Baghdad		
Dagitud	Road runs N. by W., through a valley about 20 m. wide bounded by ranges of hills apparently running NW. an SE., across undulating stony country. Road easy thoug stony in places.	d
$236\frac{3}{4}$	Qarachan Agha Tepehchi (25 Dizeih houses). (Apparentl in the neighbourhood the branch line to Makhmūr leave T.L.)	
2373/4	Small stream is crossed: and immediately afterwards little dry hollow. Near latter, to r. of road, Hamwarke village.	
2393/4	In this neighbourhood small village on l. of road followe by authority of 1903. It has square mud-walled enclosur 50 yds. square and 12 ft. high. ½ m. farther small villag to r. with similar enclosure.	e
2441/4	Cross a <i>karez</i> (25 ft. deep, 20 ft. wide, with 1 ft. of water by a brick bridge (1903). Route now runs over broke ground.	
2451/4	Erbil. The post-road between Erbil and Mosul runs throug a rolling plain, the undulations of which sometimes ris to the height of downs. The country is treeless, and i parts stony, but well cultivated. More especially, the plain beyond the Zāb contains numerous villages. The Great Zāb (see under m. 262½) is a serious obstacle as any season, but especially in the spring floods. The	n n ee ee at
	any season, but especially in the spring floods. The Ghāzir Su (see under m. 269½) would not be fordable is spring. From Erbil the road runs somewhat W. of NW. to the neighbourhood of—	n
2533	Girdashir (30 huts of Kurds). Good water from well 25 ft. deep, drawn by rope and bucket. Thence the track runs generally WSW, over an open plain with some cultivation, but few villages in sight for 8½ m, the Great Zāb. Some stony ravines draining toward	e h o
2621/4	that river are crossed. The Great Zāb, Eski Kelek (called now Hasan Agha) ferry The channel in October 1903 was 150 yds. wide, wit a fairly strong current and some 10 ft. deep at the ferry It is not usually fordable, though it is sufficiently low to	h 7. 0
	ford late in some years. The whole stream-bed $(\frac{3}{4}$ m wide) is covered at the flood season. There are tw ferry-boats to hold six laden animals, but usually load	0



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166	LAND ROUTES
Miles from Baghdad	are taken off and put in the boats and the animals swim. There are 15 houses (inhabited by Kurds who have to work the ferry) and a khan on the l. bank. The r. bank is open shingle, but the l. is rather steep, with gravelly cliffs in places. A short way down-stream the l. bank is easier. Girdaresh village is 4 m. up-stream on the l. bank, and Baishir 3 m. up on the r. bank. (On the Great Zāb see Tigris, Route III E, at m. 150½.)
quelave de la constante de la	An alternative track to the Zāb leaves Erbil in a W. by N. direction and crosses the Demir Dāgh downs, while the post-road skirts their northern side. (Details from report of 1903.) This other way, after ½ m., crosses a nullah, the banks of which afford complete cover from the Erbil citadel. It runs NE. by SW. The country is undulating and cultivated. At †1 m. two small enclosures are passed to the l., the first 15 yds. square with a wall 12 ft. high, and the other 50 yds. square with a wall 12 ft. high. Both have mud walls and watch-towers. Then a small stream is crossed 10 ft. wide and 1 ft. deep. At †4 m. a small village lies ¾ m. to the l., with mud-walled enclosure 50 yds. square. At †5 m. the route begins to ascend over ground undulating to hilly. At †7 m. the top of the downs is reached, and at †8 m. their watershed is followed over ground full of holes. The T.L. (two wires) crosses the road in this neighbourhood. At †16 m. a village 1 m. to l. is passed. The road is stony over undulating country. At †18 m. another small village lies to r. of road, with a small well containing good water: thence over undulating country gradually descending to river. At †20¾ m. the final descent to the river leads down by a steep and stony track winding along a pebbly ravine bed. A little farther on emerge on cultivated plain. At †22 m. the Zāb is reached. The river bed is here 800 yds. wide, of pebble and sand, but in flood extends to 1 m. in width. In February 1903 the stream was about 150 yds. wide with a current of about 4 m. an hour. Ferry-boat was punt-shaped, and lightly built, 20 ft. long and 8 ft. wide. There is a village on each bank. That on the l. is 1¼ m. distant with 50 mud houses, and a walled enclosure on a mound which commands the road as it descends from the high ground to the river plain.
$\frac{263\frac{1}{2}}{269\frac{1}{2}}$	The road leaves the river and ascends some low gravelly undulations. Tamarisk shrubs and a few trees in the river-flat. Manguvar village on the l. bank of the Ghāzir Su, which in October 1903 was 60 yds. wide and 2 ft. deep. The bed is 300 yds. wide, and consists of shingle and sand. In spring there are freshets from 8 ft. deep with a great rush of water. It has then to be crossed by raft. In



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Miles fr Baghd	ROUTES 25 a, b 167	
Bagna		
	winter and spring, even when the river is fordable, its	
	depth and current make the passage difficult. There are	
	some small villages down-stream.	
	Continue over open plain of good soil well cultivated. The road passes close to the S. extremity of the hilly	
	country of the Maqlub and Zardak ranges.	
274	Pass Targulla, $1\frac{1}{2}$ m. to the N. of road. It lies at the S.	
	extremity of the Zardak Hills (or Jebel 'Ain es-Safrā).	
0701	Large spring in these hills.	
278	Keremlis. Christian village of 120 well-built stone houses near a mound. The main road passes close to it, but	
	there are several parallel tracks all equally good. Water	
	from stream and from wells. A few vegetable gardens	
	and an olive-grove. Birtulla is another large Christian	
	village, 4 m. to the NW. One track goes through it.	
	There is a track running along the l. side of a stream-bed which leads S. by W. to Nimrūd (†19 m., see Tigris, Route III E, m.	
	159½). From Nimrūd there is a track along the I. bank of the	
	Tigris to Mosul (†22 m. from Nimrūd). From Keremlis the post-road runs across the open	
	plain to Mosul, which lies W. by N. of Keremlis.	
290	Ruin-mounds of Nineveh (Qoyunjiq and Nebi Yunus).	
292	Mosul.	
	DOLUMB OF I	
	ROUTE 25 b	
	BAGHDAD—MOSUL (230 m.)	
	Via Right Bank of the Tigris	
Author a	ities:—Military Report on E. T. A., vol. iii, 1904 (route report of Feb. 1903); report of a journey in autumn 1903; and other sources of information.	
Ba	ghdad—Samarra.—Before the present war there was a route ble for wheels as far as Samarra. This was followed by the	
large	pilgrim-waggons which plied between Samarra and Baghdad.	
The 1	oad appears to afford good going in dry weather, but is likely	
to be	very heavy after rain, and in the neighbourhood of Baghdad the	
chan	ry traversed is more or less flooded in spring. Numerous water- nels are crossed. The palm-tree bridges described in the itinerary	
belov	v as occurring near Baghdad do not appear to be suitable for	
heav	wheeled traffic, and it appears that the pilgrim waggons did	
not 1	ollow exactly the course here detailed. At many places there	



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LAND ROUTES

are several possible tracks for pack-animals. Near Baghdad the tops of the canal-banks and riverside dykes may sometimes be used in order to avoid flood or marshy ground. For railway see Appendix.

Water appears to be plentiful, from canals, wells, or the Tigris. There is a fair amount of cultivation and at least two flourishing villages (Sumeikeh, m. 39, and Beled, m. 51) are passed: a certain amount of supplies for small bodies of men could therefore perhaps be obtained. As regards grazing, there is some camel-thorn, and apparently some grass here and there in spring. Fuel probably scarce.

Samarra - Mosul. - Beyond Samarra the character of the route changes. Before the present war it was just passable for wheels (though with difficulty) throughout. Light carts had occasionally traversed it, and a few years ago a motor-car was brought by this route from Baghdad to Mosul, but it broke down on the return journey. For most of the way there would be no serious difficulties in road-making. The track passes sometimes along the floor of the Tigris Valley (for description, see Route III E) over stony ground or alluvial soil, crossing fairly numerous wadis: sometimes it leaves the river-trough and ascends the low plateau or hills bordering the valley: here it generally runs through open rolling country, but in places has to traverse broken ground (as near Tekrit: see m. 1001). At one point (see m. 134) it makes a long détour from the river, about 34 m. in length, where the r. bank becomes impassable owing to the Hamrin These hills though low are very rugged and broken, and the river flows close under their NW. side from Qal'ah Sherghat to the Fet-hah gorge by which it breaks through them. The track by which the route eventually crosses the hills to rejoin the river near Qal'ah Sherghat would need in places considerable improvement before it could be made easy for wheels (see m. 157). The authority whose report is here chiefly followed made the journey on horseback in 1903.

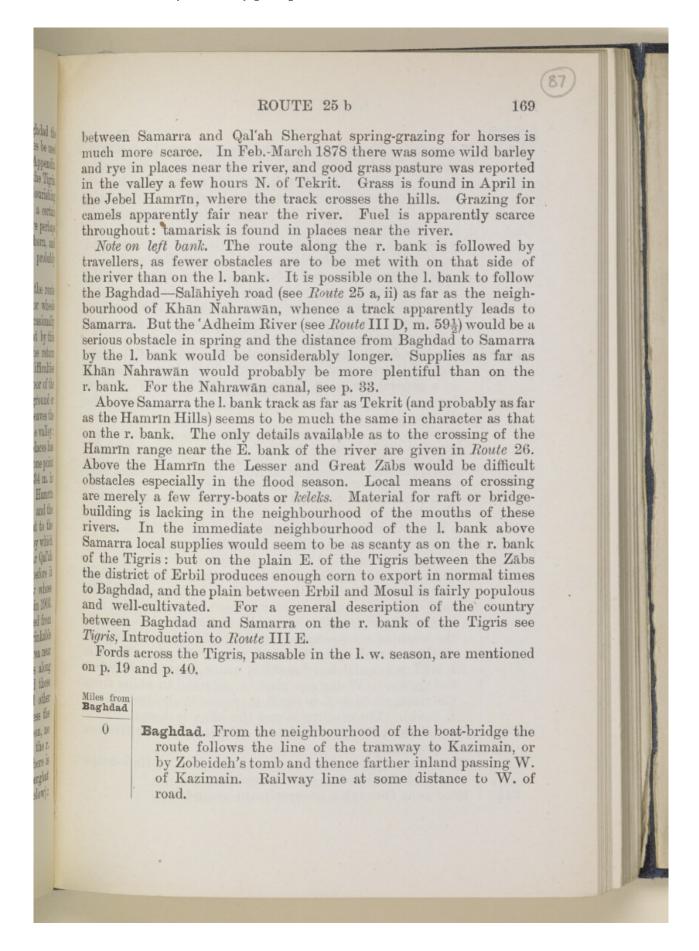
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Between Samarra and Mosul water can generally be obtained from the river, but on the détour of 34 m. already mentioned drinkable water is very scarce. Between Samarra and the cultivated area near Mosul, patches of rather poor cultivation occur at intervals along the Tigris Valley, but there are few permanent villages and those are usually small. In peace time camps of Shammār and other nomads were occasionally to be found near the river. Unless the flocks and herds of the Jezīreh nomads could be drawn upon, no amount of local supplies worth considering could be found on the r. bank of the Tigris, except for a limited quantity at Tekrit. There is much good grass grazing in spring in places between Qal'ah Sherghat and Mosul (see note under m. 168, m. 173, m. 206, m. 210 below):



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170	LAND ROUTES
Miles from Baghdad	Kazimain. From here the possible tracks strike across an
	floods. In Feb. 1903 the water-cuts in this region were easy to pass. The best track for wheels is said to keep about 3 m. from the river in order to avoid water-cuts
$16\frac{3}{4}$	and marshy ground. For the track which diverges to the 1. beyond Kazimain and leads NW. across the desert to Anah, see Route 48. A possible track follows the top of a raised dyke along the river, leading to two water-cuts \(\frac{1}{4} \) m. farther on, which
	have to be crossed. One had no bridge in 1903, and its ford would require improving for guns. The other had only a palm-tree bridge 3 ft. wide.
18	Cross two small canals, with palm-tree bridges 6 ft. high. Road follows top of canal bank 20-30 ft. high. Keeping in a general direction between N. and N. by W., it now leaves the neighbourhood of the river, which bends to the E. near Haseiweh.
	A track apparently branches off in a NNE. direction to the Bābi tract on the r. bank of the Tigris, whence it runs N. to the Qal'at Tarmīyeh police post. Beyond Qal'at Tarmīyeh a track seems to follow the course of the river. (Thus on the right bank opposite Sindiyeh about 9 m. NNE. of Qal'at Tarmīyeh is a grove of poplar described as a halting-place for caravans from Baghdad.)
$\begin{array}{c} 20\frac{1}{2} \\ 21\frac{1}{4} \\ 22\frac{1}{4} \\ 23 \end{array}$	A line of ruin-mounds is passed. Well with good water 20 ft. below the surface. A canal with bank 10 ft. high is skirted. Khān Meshāhidiyeh. Railway station. A brick khan 100 yds. by 90 yds., with walls 18 ft. high, crenellated on
	top. There is a semicircular bastion at each corner, and a small square one in the middle of the curtain. Close to the khan is a two-storied <i>zaptieh</i> post, with stabling for six horses and a courtyard 15 yds. by 12 yds. There is a well, perennial but brackish, water being 35 ft. below
	the surface. Water can also be obtained in skins from the river, about 4 m. to the E. (opposite Reshīdiyeh on the l. bank). The country round the khan is desert.
$ \begin{array}{c c} 24\frac{1}{2} \\ 29 \end{array} $	Ground low: boggy in winter. Beyond this cultivation begins again. Khōr Tarmīyeh: swamp about 1 m. to E. Ruin-heaps
31½	and old canal beds henceforward frequent. Road runs through a group of ruin-mounds.



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		(88)
	ROUTE 25 b	4
Miles from	1	1
Baghdad	D	
32	Ruins of Waneh on old bed of the Tigris about 1½ m. to I of road.	E.
	R. bank of the Tigris, at Mansūriyeh ferry and near mout of Tarmīyeh canal, lies about 6 ¹ / ₄ m. to E.	h
	Ruin heaps to left.	
	On W. side of railway-line, which apparently runs to let	t
1	of the track, are small irrigation-cuts belonging to the	e
	Dujeil system (see Route III D. m. 81½), some of which	h
	may still carry a little water in the h. w. season. W. o	f
	these (? about 2 m. WNW. of this point on the route) is the tomb of Sheikh Ibrāhīm.	S
34	Ruins of 'Akbareh about 1 m. to E., on the old bed of the	
To the	Tigris, which above 'Akbareh makes a détour to E.	
	From here to Sumeikeh the route takes a general NNW	
	direction. Several dry canal beds are crossed. The soi	i
37	here is sandy clay.	
01	Two small canals with water in them in Feb. 1903. They	7
Mari Tu	are about 15 ft. between the banks and 10 ft. deep; the water was 4 ft. wide and 2 ft. deep.	9
	Old bed of the Tigris about 1 m. to r.	
39	Sumeikeh (or Dujeil) village, and date-groves watered by	,
	the Dujeil Canal; about 2,000 inhabitants; khan. Rail	
100	way station. The village and neighbouring lands are the	9
	property of the Dā'iratles-Sanīyeh. Supplies fairly plentiful	
	Water good and abundant: wells and canal. Sumeikeh lies about 9 m. W. by N. of a point on the r. bank	
	of the Tigris opposite Sa'diyeh. The old bed of the Tigris	
	runs about 1 m. NW. of the village, outside the date	
1	groves.	
	From Sumeikeh the road takes a general NW. direction	
	The railway apparently lies to right. The road runs	
	parallel to the course of the Dujeil $(1-\frac{1}{4} \text{ m. to r.})$ and the old Tigris bed $(2\frac{1}{2}-1 \text{ m. to r.})$. Between the old	
	and present beds of the Tigris a space about 12-8 m. wide	
	is dotted with ruin-mounds and ruin-fields.	
	The country-side is fairly well cultivated.	
100	Khazraj Arabs in this neighbourhood.	
10614	In the next 8 m. several canals are crossed, varying in width from 10 to 40 ft and in death from 5 ft to 20 ft	
-	width from 10 to 40 ft. and in depth from 5 ft. to 20 ft. below the level of the plain. Some of them contained	
model .	water in Feb. 1903. Almost all were traversed by palm-	
31994	tree bridges about 10 ft. wide.	
	to the design of some appropriate to the sound of the sou	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ " [٢٧١] (٢٣٢/١٨١)

172	LAND ROUTES
Miles from	
Baghdad	Parts was along book of small and the last of
47	Route runs along bank of small water-channel, 10 ft. wide
	by 5 ft. deep: the water in it was 3 ft. wide and 2 ft. deep in Feb. 1903.
49	The old bed of the Tigris is visible to r. for about 4 m.
51	Country intersected by dry canal-beds, with banks varying
	in height from 5 ft. to 20 ft.
	Ruins of Harbeh to r.
	Beled village, with date-groves and some vineyards (the
	property of the Dairat es-Sanīyeh) lies 3-4 m. between ENE. and NE. of this point. Railway station. Water from
	wells. There are fords in the low-water season across the
	Tigris at Darāwish Island and Baheirdeh Island, in the
	neighbourhood of Beled (4 and 3 m. from the village
	respectively). These fords have pebbly bottoms.
50	The soil is sandy clay: the track is good except after rain.
52	Harbeh Canal, from Tigris, consisting of three channels, each about 15 ft. wide, 10 ft. deep, the banks 15 ft. high.
	Only one channel had water in it in Feb. 1903.
	The canal is crossed by a brick bridge (Jisr Harbeh) of solid
	construction. In 1903 it was reported to have four arches.
	and to be 60 yds. long, carrying a roadway 27 ft. wide.
	Beyond the Harbeh bridge is an open plain much inter-
	sected by dry canal beds, with pebbly waste and acacia scrub.
55	In this neighbourhood apparently T.L. leaves route, and
	runs NNW. to cross the river near El-Hāwiyeh ferry.
	whence it goes NW. to Samarra.
57	Feshātīyeh canal (45 ft. wide, banks 25 ft. above bed).
	Water in Feb. 1903 6 ft. wide, 3 ft. deep, crossed by
	a brick bridge about 10 ft. wide. For about 4 m. the country is covered with old and dry canal
	beds, with banks varying from 5 to 40 ft. in height.
	Some of them are crossed by the route.
62	Dry canal reported to r., 30 ft. deep and 60 ft. wide; sides
01	very steep.
64	Mouth of Dujeil Canal, a short distance to r. Henceforward
	up to Samarra boat-bridge the route runs close to the river: the railway is apparently close to it on the l., and
	near the railway seems to be the bed of the dry Ishaki
	Canal. Istablāt station is 13 m. by rail from Samarra.
66	Istablat: zaptieh post in the immediate neighbourhood.
*	The country is a pebbly desert without cultivation; a
	little scrub acacia in the hollows.



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٩٧٣] (٢٣٢/١٨٤)

Tineh, village on river bank. Ford at I.w. season (1910). Level plain, partly cultivated. Samarra boat-bridge. Khan and village. Railway station. From Samarra boat-bridge the route runs about 300 yds. from the river bank, with a line of hills to the W. The country generally is sandy and uncultivated. There are numerous ruins. Qal'at el-Āshiq, ruined fort. Ma'shāq ruins on a mound. Well-preserved walls and towers. The track after this becomes pebbly and poor. Some cultivation by water-lifts on the river bank. The track crosses a pebbly ridge diagonally. Line of mounds to the W. Eski Baghdad lies opposite, on the E. bank of the Tigris. The road is now good over an alluvial cultivated plain (1903) with low hills about 50 ft. high, 1 m. to the W. Loweyyeh camp-ground. Stream running to the Tigris, with good water, 20 ft. wide and 3 ft. deep (Feb.). El-Muheijir camp-ground on a stream running to the Tigris. The track is still easy and level. After El-Muheijir the track divides, the eastern path affording better going, through continuous cultivation. The track crosses a pebbly ridge. Hills to the W. recede. The track is about 2 m. from the river. Dūr is about 3 m. distant on the E. bank of the Tigris (see Route III E, m. 20½). Nahr Ishaki, an old canal here 35 ft. wide and 5 ft. deep, with easy banks, lies beside the track on the W. The track is good, skirting the hills to the W. The hills begin to approach the river, gradually dwindling in height. The track rous along an alluvial plain about 100 yds. from the river; low cliffs, 50 ft. high to left. Samal wadi. The track now becomes stony, and rises slightly over country cut up by ravines on the E. The country to the W. is more open and flat. Steep, stony ravine, 200 yds. wide, 150 ft. deep. The track is here about 300 yds. from the river. Wadi, 200 yds. wide. The track leads over undulating, broken, stony ground.		ROUTE 25 b 173	
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	102		
The state of the s	103		
	100	The track being slightly W. to avoid some ravines. The	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [١٧٤] (٣٢/١٨٣)

	LAND ROUTES
Miles from	
Baghdad	wood descends themselves
	road descends through ruins and over stony broken ground towards Tekrit.
104	Tekrit. Moderate quantities of supplies are obtainable.
	Caravans usually rest here for a day on the west
	Mosti. Most of the Tekrit muleteers do not go well
	river, but work between Tekrit and Bachdad (A 1000
	authority estimates the distance from here to Sherei- miyeh—see m. 131 below—at 31 m.)
106	N. end of the ruins of ancient Tekrit. Small pullah often
	which the track emerges into undulating desert high
$112\frac{1}{2}$	above the river, towards which run many deep ravines
$112\frac{1}{2}$ $113\frac{1}{2}$	The track is now fairly good, over nearly flat country. Broad, shallow nullah. The track is now very stony and
2	the country broken by rayines.
118	Wadi Mahzim. There is here a little cultivation and some
	acacia scrub.
	The track now skirts some low hills to the W., and is broken in places.
119	Sheriyet el-Hamzeh, camp-ground, with good water from
	an arm of the Tigris, 30 ft. wide, 5 ft. deep.
122	The track now lies through continuous cultivation.
144	At 3 m. it touches the river, which is here about 150 yds.
di medi.	wide. The hills are here about $\frac{1}{4}$ m. to the W., rising to 70 ft. above the plain.
124	The track is easy, occasionally touching the river bank.
126	The track skirts the river, which is here about $\frac{1}{2}$ m. wide,
	³ / ₄ m. from the hills to the W. At some point in this neighbourhood is the ravine, reported by a German
Ha our	traveller in 1893, which marks the boundary between
100	the Vilayets of Baghdad and Mosul.
128	The hills are 1 m. to the W., with cliffs 70 to 100 ft. high,
	and after some distance give way to sandy mounds. Qal'at Mekrūn, ruins on a projecting bluff. This is perhaps
	identical with Khān el-Kharnīneh, Turkish barracks on
1.5	the site of the ruins of a thirteenth-century building.
	The track here runs N. by W., skirting low sandhills, 50 ft.
	high, on the W., over a sandy, ellipse-shaped plain, 7 m. long and 1½ m. broad.
131	Shereimiyeh, guard-house and camp-ground. To W. is
194	a line of low sandy hillocks about 50 ft. high.
134	The track bends away from the river, having on the NE.
1	low spurs of the Jebel Hamrīn, winding through low



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [١٧٥] (٤٣٢/١٨٤)

	90	
	ROUTE 25 b 175	
Miles from		
Baghdad	sandy mounds with a very brackish stream on r. A few	31.7
	pools of very salt and quite undrinkable water. The route	
	from here to the point where it rejoins the river at	
	Qal'ah Sherghat is lacking in good water. The country	
	is desert. There is here no settled population, but	
137	occasional encampments of Dilaim may be seen. In autumn 1903 water reported 5 ft. below surface. Arabs	ш
101	an autumn 1903 water reported 5 ft. below surface. Arabs camped here in spring.	38.1
141	In autumn 1903 water was reported 4 ft. below surface.	ш
145	In autumn 1903, it is reported, water-holes were found in	883
	a nullah about 14 m. from Shereimiyeh at a locality called	48.1
	Museltain. The water was 3 ft. below surface, and was	88.7
	estimated to be sufficient for 5,000 camels a day. It may be brackish.	
152	Track approaches Jebel Hamrīn creek, rather difficult for	
	wheels.	883
155	Bilalij, spring at foot of the Jebel Hamrīn. The water is	ш
	scanty and brackish. This is perhaps the spring reported	ш
	by another traveller as being bitter with sulphur and pitch. The quantity of water has been estimated at	883
	50 gall. p.h.	88.7
	The hills are here intersected with many nullahs, up and	88.1
	down which the track winds. The ascent to the crest of	88.7
	the range, which is here about 200 ft. high and 1 m.	ш
	wide, is easy. The track keeps along the crests of the	ш
	spurs. The track crosses a valley (? the Wādi Jahannam) at right	111
	angles, and gradually ascends the Jebel Khanūqah by	88.7
	a sandy track.	88.7
157	Jebel Khanūqah, summit of the range. The track is	861
	difficult for wheels, and winds over occasional outcrops	88-
	of marble among low hills. From the summit it descends, winding in and out of ravines.	
1661	'Ain Shababik. The track descends, winding through low	
2	sandy mounds 60-100 ft. high.	
400	Large mound, probably on the site of an ancient city.	
168	Qal'ah Sherghat ruins on large tel, close to the bank of the	
	Tigris. For description see Route III E, m. 109.	
	Turkish post. There is good camping-ground on sandy soil, with a fair	
	but limited supply of water. There is some cultivation	Ш
	in the neighbourhood of the tel.	
		BEL P

"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٢٧٦] (٥٥ ٢٣٢/١٨٥)

The Wadi Tartar lies about 28-30 m, W. of Qal'ah Sherghat. In this part of its course it carries water perennially, and is much frequented by the nomads of the Jezfreh, especially the Shammar, for its water, which is good, and for the pasture along its banks. The country between Qal'ah Sherghat and the Tartar is open and undulating, traversed by a number of deep wadis which have water in spring. There is much rich pasture in this region in April. The Wadi Tartar near El-Hadr (we below) is 25-30 ft. wide, and in spring is 5-7f. deep. The banks are rotten. There are few places where camels can cross. About '31 m. WNW. of Qal'ah Sherghat are the ruins of Hatra (cl. Hadhr), situated about 2½ m. W. of the Wadi Tartar. These ruins include the remains of a palace with seven vaulted hals, some of the walls of which are still standing to a great height, built of squared blocks of stone. Protection was afforded by a wall over 3 m. in circumference and strengthened at intervals with towers, and by a wide, deep moat. Considerable portions of the wall are still standing. At the SE corner, inside the wall, is a sulphur spring, and a little to the NE. of this spring, outside the wall, a pool of rather brackish water. There is said, however, to be a good spring of fresh water just outside the walls, though no other indication is given as to its position. The period of the greatest prosperity of Hatra fell in the first and second centuries a.D., under the Parthian Empire. It was destroyed by the Persian king Sapor I (a.D. 242-27). The mileage up to Shura (see m. 204) is very uncertain; the authority from which these distances are taken gives 7 hrs. as the time between Qal'ah Sherghat and Shura, but this appears to be an error. Another authority estimates the distance between Qal'ah Sherghat and Shura as 42 miles and gives the time taken from Kaiyara to Qal'ah Sherghat at 8½ hrs. Creek, 20 ft. wide, 5 ft. deep. The track now enters the open desert again, the hills trending to the W. The track shirts the hills, with the ri	176	LAND ROUTES
is much frequented by the nomads of the Jeatreh, especially the Shammār, for its water, which is good, and for the pasture along its banks. The country between Qal'ah Sherghat and the Tartar is open and undulating, traversed by a number of deep wadis which have water in spring. There is much rich pasture in this region in April. The Wādi Tartar near El-Hadr (see below) is 25-30 ft. wide, and in spring is 5-7 ft. deep. The banks are rotten. There are few places where camels can cross. About '731 m. WNW. of Qal'ah Sherghat are the ruins of Hatra (el-Hadhr), situated about 2½ m. W. of the Wādi Tarta (el-Hadhr), situated about 2½ m. of the Wādi Tarta (el-Hadhr), situated about 2½ m. of the Wādi Tarta (el-Hadhr), situated about 2½ m. of the Wādi Tarta (el-Hadhr), situated about 2½ m. of the Wādi Tarta (el-Hadhr), situated about 2½ m. of the Wādi Tart		
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The track skirts the hills, with the river 1 m. E. The track enters a small alluvial plain called Sherghat, partly cultivated. The road is good and sandy, skirting the hills, which are here about 100 ft. high. The track touches the river, which here has banks 20 ft. above the water. In 1903 there were sheep grazing on the plain and nomad Arabs in the valley. The road is good, lying up the bed of a stream over a low line of hills. Summit of the hills. Stony downs to r. and l. The track		The mileage up to Shura (see m. 204) is very uncertain; the authority from which these distances are taken gives 7 hrs. as the time between Qal'ah Sherghat and Shura, but this appears to be an error. Another authority estimates the distance between Qal'ah Sherghat and Shura as 42 miles and gives the time taken from Kaiyara to Qal'ah Sherghat at $8\frac{3}{4}$ hrs. Creek, 20 ft. wide, 5 ft. deep.
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The road is good, lying up the bed of a stream over a low line of hills. 174 $\frac{1}{2}$ Summit of the hills. Stony downs to r. and l. The track	173	The track touches the river, which here has banks 20 ft. above the water. In 1903 there were sheep grazing on
174½ Summit of the hills. Stony downs to r. and l. The track	$173\frac{1}{2}$	The road is good, lying up the bed of a stream over a low
	$174\frac{1}{2}$	Summit of the hills. Stony downs to r. and l. The track



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	91)
	ROUTE 25 b . 177
Miles from	
Baghdad	Towns Committee 1 111 and 111
175	Jarnaf camping-ground, with fair drinking water from
	a stream and rain-pools.
	The track now crosses a creek, 20 yds. wide and 20 ft. deep.
178	Water good, 25 ft. wide and 2 ft. deep (Feb. 1903). Depression in the chain of hills for about 1 m.
180	The track is good, about 300–400 yds. from the hills on the
	W., which are here about 150 ft. high. On the E. is
Carried Co.	a small winding grassy nullah.
181	The track rises over a pebbly path from the cultivated plain
100	to the plateau, 50 ft. higher.
182	The road passes over broken ground, crossing a small nullah,
	soft, deep, and 40 yds. wide. There is a gap in the hills
	to the W. On the E. is some cultivation, about 1 m. distant.
183	The track passes through fairly open country over an alluvial
	plain. The hills on the E. are broken by rayines: those
105	on the W. are about 150 ft. high.
185	The road is pebbly and crosses a small valley, with some
$185\frac{1}{2}$	cultivation on the E.
1002	The track is stony, with ravines to r. and l. The river is $1\frac{1}{2}$ m. to the E.
1891	Naphtha and bitumen wells to the W. The country is flat
4	and open. The track is $\frac{1}{2}$ -1 m. distant from the river.
1901	Kaiyara (Qaiyareh). Oil springs and refinery. (For
	description, see Route III E, m. 135½.) The descent into
	the valley (ascent to N. of it?) is rocky and impassable
193	for wheels.
100	Romana camp, near a stream impregnated with naphtha
194	and sulphur. The track is good over some low hills. The track crosses a stream 20 ft. wide and 3 ft. deep in
	a ravine 30 yds. wide and 10 ft. deep. The water is clear,
10.11	but brackish, and not fit for drinking.
1941/2	The road enters a large open valley along the Tigris.
196 201	Small nullah, dry and easy.
201	The track skirts a creek with steep banks. The water is
203	A nullah on the W. skirts the road.
204	Shura village. There is drinking water here, slightly
	brackish. In 1903 there were 20 zaptiehs belonging to
	the Sultan's farm and acting as desert-guards, housed in
	a khan 60 by 40 yds. The place has a Mudir.
	The distances N. of Shura are again uncertain: the
MES. III	M



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178	LAND ROUTES
Miles from	
Baghdad	authority from which they are taken gives the time
	between Shura and Hammām 'Ali (see m. 2173) as 7 hrs. Another authority supports the distance given below, making it 13 m. between Shura and Hammām 'Ali.
205	A nullah on the W. 30 ft. deep, but easily crossed at various
206	points, skirts the track. Splendid grass in April. The ground here is under the Dā'irat es-Sanīyeh.
210	Ruined village 2 m. to the W. The country is gently
212	undulating and easy, with good grazing. The track descends from a plateau, with a stony and rocky patch, for 100 yds. The ruins of Nimrūd (see Route III E, m. 159½) are 4 m. distant on the E. bank.
214	The road winds through rocky stony hills, passing a ruined town.
215	It skirts some low hills 200 yds. to the W., and then runs along the Tigris, crossing a stream in a ravine 30 yds. wide.
2173/4	Hammām 'Ali. (For description, see Route III E, m. 167½). Good grazing. Village among the hills about ¾ m. to the W. There is cultivation along the level. The distances N. of Hammām 'Ali are uncertain: the authority from which they are taken gives the time between Hammām 'Ali and Mosul as 6¼ hrs. Other estimates make the time between these two places 4½ or
2183	5 hrs. Another authority makes the distance between Hammām 'Ali and Mosul 16 m. The track is good, running along the river bank for 1½ m. All this plain is under the Dā'irat es-Sanīyeh. Lezadeh (Lazzāqeh? see Route III E, m. 174½) village and
2221	khan. The track undulates over stony ground. Small village to the E. The track runs along the bottom
4	of an open valley 500 yds. wide, rising, after $\frac{1}{2}$ m., over stony downs, with some rocky ravines running towards the river.
2243/4	An alternative easy track keeps close to the river. Village on the E., with mud and brick fort commanding the track as it ascends the hills from Mosul. It is 60 by 50 yds., with walls 20 ft. high, and two towers. The fort is apparently the Qasr of Seramūn mentioned in Route III E, m. 1804.
	4



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	92)
Miles fro	d
	The road now descends over stony ground towards the river. The hills recede from the river, and there is cultivation on both sides of the track.
230	Mosul.
	ROUTE 26
	TEKRIT—KIRKUK (77½ M.)
	Authority:—Military Report on E.T.A., vol. iii, Route 104 a.
The those g	following is a desert route. The only details obtainable are iven below. They are taken from a report of 1885.
Miles fro	m
0	Tekrit. (See Route 25 b, m. 104.) The first march from Tekrit is N. by E. across an undu-
22	Inkhilā, small oasis, with a brackish spring half hidden in bulrushes. At no great distance to NW, is the Fet-hah
	From Inkhilā cross the Jebel Hamrīn, rising 500 ft. above
- 53	the plain, thence for 12 hours over open desert. Bashīrīyeh, Kurdish hamlet of about 100 hovels on the Kirsa Chai in open cultivated country.
66	From here follow the broad depression of the Kirsa Chai. Taza Khurmatli on Baghdad-Kirkuk-Mosul road. Follow this road to Kirkuk. (See Route 25 a, m. 176–187½.)
$77\frac{1}{2}$	Kirkuk.
	ROUTE 27
	QAL'AH SHERGHAT—ALTUN KÖPRÜ (67 m.)
	Authority:—Sykes, Dar-ul-Islam (journey of 1903).
From D	route is easily passable for wheels as far as Derban (m. 54), at the Hasan Ghāzi Pass over the Qarachok Dāgh (m. 34). The erban onwards it is only just passable for wheels. Supplies y lacking as far as Makhmūr, fair from that point onwards. M 2

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	180	LAND ROUTES
	Water n	ot plentiful till beyond Derban. Pasture good in spring.
	ruel pro	bably lacking.
	who wen	etails of the following route are taken from an authority at over it in April 1903.
	Miles from Qal'ah	
	Sher- ghat	
	0	Qal'ah Sherghat. Ascend r. bank of Tigris for about 2 m.
		to a place where a ferry-boat is moored. (The ford about
		5 m. above Sherghat reported by an authority of 1893 as passable in the l.w. season is not included in a list of
		Tigris fords compiled in 1910 from information of native
	2	raftsmen. See <i>Route</i> III E, m. 113½.) Cross Tigris by Mezār esh-Sherghat ferry. In 1903 there
		was one crazy boat steered and moved by one oar. From
	7	the ferry proceed in a northerly direction to—
	,	El-Haichel camping-ground. Here in April 1903 there was a camp of Jebūr semi-nomads, who had left their
		village and migrated into tents for the summer.
	91	From El-Haichl strike across plain in an ENE. direction.
	4	³ / ₄ hr. from El-Haichl, cross bed of ancient canal 30 yds. broad. This canal is said by local Arabs to run S. to the
IBHIIII		Lesser Zāb. It is called the Wādi el-Hafr.
IMMEN	11	Through a line of low hills $(\frac{1}{2} \text{ hr. from canal})$ dotted with artificial mounds. Here is passed a small permanent
MILHIN		spring.
1111111111		Enter a broad open plateau 800 ft. above sea-level,
HIMMIS		dotted with villages. In the spring of 1903 these had been abandoned owing to drought and locusts. Makhmur
IMMAN		lies under the saddle between the northern and southern
		heights of the Qarachok Dāgh which lies ahead across the plain.
	21	Pass artificial mounds (3 hrs. from hills). Between this
		point and Makhmur water in small quantities is to be
	81	found as a rule. Makhmūr (3 hrs. from the mounds). Outside the village
		are the remains of an ancient town, each side measuring
		about 420 yds., surrounded by a square of mound walls
		as at Nineveh. In the centre is a large mound. Makhmūr itself is a new place, being the centre of
		a large estate of the Da'irat es-Saniyeh, which comprises
		most of the country between the two Zābs in the neighbourhood of the Qarachok Dāgh. Makhmūr is
		- Garachok Dagn. Makhmur is
1 BB		



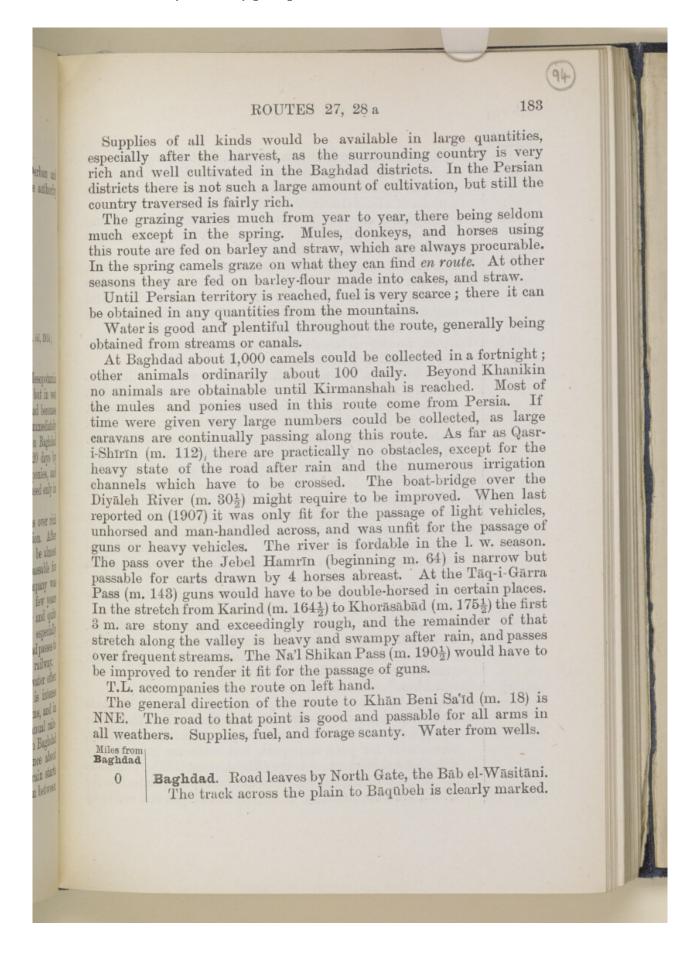
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	Let 31 1/11/11/1 63/7	
	ROUTE 27	181
Miles from Qal'ah		
Sher- ghat		
connected 1	by telegraph with Erbil. Th	ere are here a
large khan,	a bazaar, and a serai (govern	ment building)
erected by	the Da'irat es-Sanīyeh. The	town in 1903
the place	ning, a good many caravans pa	ssing through
stationed he	Some Turkish troops under a ere. In 1903 Agha Ibrāhīm, t	a captain were
Disdiyeh K	urds, resided at Makhmūr.	He exercised
civil jurisdi	iction over his tribe, who are	e semi-nomads
(1,200 famil	lies) having their head-quarter	s in the Oara-
cnok Dagh.	In 1903 they were armed	with Martinis
From Makhm	ed at Suleimāniyeh. nūr the track ascends the s	anddla landing
across the	Qarachok Dāgh. This pass is	called Hasan
Ghazi, after	a Kurdish saint, whose tomb	is here. The
shrine is n	nuch reverenced by the Dis	diveh, and is
a place of a blood-feud	refuge for outlaws and person	is pursued by
	nts the pass is difficult for	whools but it
might easily	be improved.	wheels, but it
34 Summit of the	Hasan Ghāzi Pass.	
At the easter	n foot of the pass, the track	bears ESE.,
running over	er an open plain parallel with	the southern
part of the weather T	Qarachok Dagh. It is quite	e easy in fine
and along th	There are a number of village ne slopes of the Qarachok. The	s in the plain
inhabited by	y Disdīyeh. Flocks of sheep	were seen in
1903: the a	nimals appeared to thrive on	the pasture in
the neighbor	urhood.	
Across the plan Zergezawan	in, here about 15 m. to E., is t	the line of the
49 In the neighb	ourhood the track bears to E	crossing the
plain toward	is a pass in the Zergezawan.	
54 Derban villag	ge $(6\frac{1}{2} \text{ hrs. from Makhmūr})$.	The residence
of a Kurdis	sh Agha. From here to Altu	ın Köprü the
track is just	passable for wheels. Water i	s plentiful.
57½ Cross pass over Summit of pas	r Zergezawan Dāgh.	
	s: wide view obtained here. age in plain below pass.	
	öprü—Kirkuk high road (se	e Route 95 a
	63), along which runs the T.L	Follow the
high road in	to Altun Köprü.	2 021011 0110

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182 LAND ROUTES Miles from Qal'ah Sherghat Altun Köprü. (The time taken between Derban and 67 Altun Köprü is variously given by the same authority as $3\frac{1}{2}$ hrs. and 5 hrs.) ROUTE 28 a BAGHDAD-KIRMANSHAH (222 M.) Via KHANIKIN Authorities :- Routes in Persia, vol. iii, 96 (1910); Corrections to vol. iii, 1914; Route Report of 1909. This is the main caravan and trade route between Mesopotamia and Persia. It is passable for wheels in dry weather, but in wet weather, unless the season is exceptionally mild, the road becomes very heavy and in places a quagmire. In the years immediately preceding the war there was a motor-car service between Baghdad and Baqubeh. The complete journey is performed in 20 days by camels, and in 14 days by horses and mules. Mules, ponies, and donkeys are the usual transport animals, camels being used only in the summer and not after the rains have set in. As far as Khanikin, on the Persian border, the road lies over rich alluvial soil which in many places is subject to inundation. After S 201 1 in. of rain the whole country becomes so boggy as to be almost impassable. From November to April the road is impassable for camels owing to the rain and snow. A Persian company was formed in 1905 to put and keep the road in repair. A few years before the war it was reported to be in fairly good order and quite passable for wheeled traffic, though very rough in places, especially beyond Khanikin. The range of low hills over which the road passes to Khanikin would offer no obstacle to the construction of a railway. In January and February the cold is considerable and water often freezes. During July, August, and September the heat is intense during the day, but very hot nights are unusual at any time, and in June there is generally a refreshing north breeze. The annual rainfall is about 7 in, and falls in the cold weather. Between Baghdad and Khanikin the rainy season may be said to commence about November and to end in March. Beyond Khanikin the rain starts somewhat earlier, and ends later. Snow falls in the region between Ser-i-Pul and Kirmanshah.

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184	LAND ROUTES
Miles from	LAND ROUTES
Baghdad	W/
	When there is any doubt, as at night, the telegraph-line can be followed. General direction to Khān Beni Sa'īd NNE. For the first 3 m. the road is a broad level track over
9	a plain of alluvial soil, showing frequent signs of flood. An irrigation channel is crossed by a rickety wood and stone bridge with 12-ft. roadway. Width of channel
11	12 ft., depth below bank 3 ft. Some cultivation. Khān el-Bīr ruins on r. Limited supply of brackish water. About here a second irrigation channel similar to first is
	crossed. On the other side of the channel is the postal staging station. From here the Nahr Tahwileh runs parallel to the road for 1 m., then diverging N.
$15\frac{1}{2}$	Line of mounds crosses road running NE. and SW. The
18	road from here shows no sign of flood up to Khān Beni Sa'īd or Ortah Khān, a village with two khans, one of which is 100 yds. square, of massive brick,
	in which there is accommodation for 300 men and horses. There is also plenty of room for camping. Brackish
	water from wells. Grazing scarce. Fuel scarce locally. There are villages in palm groves about 4 m. to NW.
	From Khān Beni Saʿīd to Bāqūbeh the general direction is NNE. The road throughout is good and passable to
24	all arms except at the Diyāleh bridge. Road to Beledrūz via Bahrīz branches off NE. See Route 30.
27	Cultivation on both sides of the route. Irrigation canal, 6 ft. wide, 3 ft. below the banks, crossed by a stone bridge in bad repair; the bridge roadway is 12 ft.
$28\frac{1}{2}$	A narrow deep channel is crossed, 6 ft. wide and 10 ft. below the banks, running N. and S.
30	Reach r. bank of the Diyāleh , here a sluggish river, 60 yds. wide, with deep-cut banks. Gardens, dates, and poplar-trees on either hand. Road now runs up river bank.
30½	ground becoming hilly and broken. Small khan l. of road. Swinging bridge over the Diyāleh, consisting of 11 boats (with two spare for increasing the span when the water
	rises), over which a 12-ft. roadway is laid. It is rickety, serviceable for pack-transport, but unfit for guns or any wheeled vehicles except very light ones. The pontoons
	are in good condition; a very slight repair (materials for which are obtainable on the spot) would put the roadway



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		95
	ROUTE 28 a 185	
Miles from Baghdad		
	into condition for the passage of guns. The river is fordable in this neighbourhood during the l. w. season. The approaches on both sides are soft and likely to be	
	slippery after rain. The banks of the river are perpendicular, the r. being 15 ft. and the l. 30 ft. above the level of the water. The road now runs in an easterly	
	direction through high-walled gardens and enters Bāqūbeh. It is reported that a force attempting to cross the river here from either side could be brought to either bank under	
	cover, on the r. owing to the configuration of the ground, on the l. owing to the town walls and palm-trees.	
31	Bāqūbeh. Pop. 4,000–5,000. P.O., T. There is good camping ground to be found anywhere outside the town. Supplies abundant. Water from the river. Forage and	
	fuel plentiful. No camels. About 20 other transport	
	animals could be collected daily. The route now runs in a general north-easterly direction to	
	Abu Jezreh. To this point the road is good and passable to all arms in dry weather. Some of the canals	
	would require ramping, and some of them are crossed by rickety bridges. In wet weather the worst part of the	
	road is the last mile. Between Bāqūbeh and the frontier	
	(100 m.) the road used to be dangerous owing to the depredations of the Shammar Arabs and Hamawand Kurds, and more recent accounts (e. g. 1909) suggest that	
	this was still the case in the years immediately preceding the present war. The road emerges from the northern entrance of Bāqūbeh	
	through the walled gardens, bearing easterly, and winds through hillocky ground over numerous irrigation chan-	
34	nels, and would be deep and bad in wet weather. Cross an irrigation channel. Road here broad and level over an alluvial plain. To NW. lie numerous villages.	
	The ground is low and in parts marshy, and cut up by frequent irrigation channels which sometimes contain	
	water. To E. is a plain stretching to a distant range of low hills on which there are a few hamlets visible. The	
	plain is barren but green with camel-thorn and patches of	
43	grass. Cultivation on either side, and large villages 4 m. to NW.	
46 47	Ground very bad in wet weather. Caravanserai of Abu Jezreh; accommodation for some	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [١٨٦] (١٩٢/١٩٥)

186	LAND ROUTES
Miles from	
	200 men and horses. This is not a usual halting-place for caravans, which generally go right through. Fue scarce. From Abu Jezreh to Shahrabān the general direction in NE. The road is passable in dry weather for all arms but is deep and heavy and impracticable for wheel in wet weather. Many culverts, ramps, and bridge would be required. Supplies could be collected from neighbouring villages. There are quantities of cattle sheep, and goats. Water good but muddy from canals Good grazing. Fuel scarce. Leaving Abu Jezreh caravanserai the road runs over unever hillocky ground liable to flood. On the r. is a deep, high banked irrigation canal. Numerous irrigation channels cross the road which is somewhat confined with banked canals on either side up to Shahrabān (see m. 57 below). Road passes the high-walled caravanserai, 100 yds square, of the village of Jellāli; there are gardens and date-palms. Emerging from the village the road crosses a canal 30 ft. broad, running swiftly SE; the bridge consists of one 12-ft. arch of stone, strong, and in good repair. Shahrabān. T., P.O., several caravanserais, and a roofee bazaar. There are walled gardens and date-groves. No camels. About 20 other transport animals could be collected daily. Supplies plentiful in normal times water good and abundant from wells and canals. Fue scarce. From Shahrabān to Qizil Ribāt the general direction is NE. The track generally has been described as a carriage road, but a very bad one, both over the hills where it is very stony and the gradients are apparently steep, and over the plain where it is very soft. For the first 4 m. from Shahrabān the road is heavy in wet weather and impracticable for wheels. Numerous culverts and small bridges are required. Passing through the roofed bazaar and walled gardens of Shahrabān the road emerges over undulating ground liable to flood. There are numerous irrigation channels in all directions, some deep and narrow with few and bad foot bridges.



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ " [١٨٧] (٣٣/١٩٦)

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188	LAND ROUTES
Miles from Baghdad 75	Qizil Ribāt. T., P.O. Several caravanserais on the farther side of the town. Supplies plentiful in normal times. Water abundant. Good grazing. Fuel scarce. No camels. About 50 other transport animals could be collected daily.
	Authority:—Routes in Persia, Corrections to vol. iii (1914), 96 (D); a report of 1911.
	From Qizil Ribāt to Pāi-Tāq (see m. 143, below) there is an alternative route practicable only for lightly laden mules and donkeys (65 m.). Difficulty would be experienced in crossing the Āb-i-Dereh, Sarāb-i-Garm, and Āb-i-Qal'ah Shāhīn for a day or two after rains. The water from the Tangāb stream is bad, but otherwise drinkable water is obtainable everywhere. No fuel except in the Shāh Kūh (Dar-i-Barū). Grazing is plentiful from January to March, after that a little only is available in the mountains. In the Dīrā plain small quantities of supplies and fruit are available in season, and from Dīrā to Pāi-Tāq supplies are plentiful. Intermediate distances are uncertain; Pavānmakā is about 33 m.
	From Qizil Ribāt to Pavānmakā, the general direction is E. Nomad camps on the route in spring. The track is at first over flat country, then over rising and stony ground between northern and middle portions of the Bāghcheh Hills. At the frontier the ground is broken and cut up by ravines, and this terrain continues up to the foot of the Gamakavū and Shāh Kūh, where the ravine of the Tangāb stream is followed straight through the hills to Pavānmakā. The water of the Tangāb is indigestible and sometimes oily and sulphurous. The Pavānmakā gorge is approached over gypsum hills; going is very bad and treacherous. 33 Pavānmakā gorge. Here the Tangāb ravine takes a turn N.
	into the gorge which is entirely enclosed by precipices. No permanent habitation here. The Tangāb ravine is then followed out of the hill. Thence the track makes across the valley towards the Bāzī Darāz range. It passes by undulating ground to the water of Mai Qurī Khān. The track then follows this stream, but keeps above it, on the level plain, as the ravine is deep and precipitous in places. It then passes through the outer gypsum range into a narrow valley called Pushteh, and strikes across the ridges of the Bāzī Darāz. Here it is a very bad and stony road. Water is to be found between Pavānmakā and Bazī Darāz, but not in the latter region.
	50? Dīrā, a fertile plain at the foot of the Bāzī Darāz. Villages and nomad camps. In the authority followed Dīrā plain is given at 42 m., and Pāi-Tāq at 50 m., but the total distance given at the head of the route is 65 m. From Dīrā the track goes NE. It passes round the end of



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		(97)	
	ROUTE 28 a	189	11
Miles from Baghdad Miles	the Danavishk mountain into the Qal'ah which it crosses to a pass between the Qal'Enzal mountains. After crossing the Ab-i Baghdad—Kirmanshah road is joined $2\frac{1}{2}$ r Pāi-Tāq (see m. 143, below).	ah-i-Shāhīn and -Dereh the main	
76 Two 81 Low 81 Low 88 Ano 89 Leve by flo 92½ Low 93½ Stre 94 Kha Ā fr pl ot Brid w Acc	in Qizil Ribāt to Khanikin the general difference that the road throughout is good and passable dry weather. The first 4 m. from Qizit in wet weather very heavy and impleels. No water or supplies between making Qizil Ribāt the road runs past walle buses, crosses a canal by a massive bridge, and traverses a cultivated plain. Irrigan across the road, which gives signs of fluctuated canals crossed in succession by bridge asonry. The road is now gravelly over untry. In bare hills are entered, the road, a broad conding some 150 ft. gently to a kutāl merging from the hills, the road crosses the rabout 4 m. In hat passed on E. In plain of alluvial soil begins, bounded to whills. There are villages some 3 m. books and wheat fields. In gravel ridge is crossed and Khanikin contain; the road passes between and over stanikin. T., P.O. Situated on both alvand among gardens. One authority gives of property animals could be collected ge over the Alvand, a rapid stream; rive interest in a low river, 10 ft. in the 10 arches, roadway 24 ft. The stream of the strea	le to all arms I Ribat would bracticable for 80 and m. 90. d gardens and 25-ft. roadway, tion channels ood in places. ges of strong er undulating d, stony track, (pass or col). he stony plain d on all sides . to NW. with mes in sight. hony streets. banks of the es the distance Supplies are About 20-30 daily. About	



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190	LAND ROUTES
Miles from	
Baghdad	its length is, however, 8 m. less than the estimated length of the route in Routes in Persia, vol. iii, 96, stages 6-8. The route is possible only for mules and donkeys throughout it length. Carriages would be able to get as far as the Alvand opposite Kāni Biz, or to Kāni Biz itself by crossing the river a Khanikin bridge and proceeding near the l. bank, via Kārīz and Akbar, to Kāni Biz (about 10 m.). The climate is unpleasantly hot only during July and Augus (shade temperature about 110°) and is very dry. It is cooler at Imām Hasan, and over the Shisrā pass. Water ample. Green
	grazing for all beasts, all the way, from January to April, and drier grasses for the rest of the year except in Ganumbān. No fuel. Wheat is plentiful; otherwise, the only supplies would be at Kāni Biz where 10 sheep could be furnished almost at once by Mahmud Bey. The following rivers are crossed: Ālvand, Hūdarā Imām Hasan (along the course of which the road runs for $2\frac{1}{2}$ m.) and Āb-i-Dereh.
	From Khanikin to Qasr-i-Shīrīn the general direction is NE. The road is good and broad throughout, passable to all arms in all weathers, with the exception of places at m. 107 and m. 110 (see below). Road which is hard and stony still runs NE., rising gently over broken and hilly country.
$\begin{array}{c} 95 \\ 100\frac{1}{2} \end{array}$	Road rises gently over some barren hills. Turco-Persian frontier line. In the neighbourhood is a round mud tower and a Turkish picket. Thence a descent over slabs of rock deeply worn into many tracks, after
104	which the road ascends and descends low bare hills. Cross stream of brackish water. On the spur above is a ruined fort, and the houses occupied by the Persian frontier guard. From here the road ascends gently, passing springs of water and Kurdish camps.
107	Track here goes over some sheet rock, which is not only
108	steep but inclined at an angle sideways. Spring of good water crosses road. Qasr-i-Shīrīn and Alvand river sighted.
110	Alvand River, 30 yds. wide and fordable. Large grove of poplar and willow on the l. bank. Road runs along r. bank. Road along hillside had fallen away a few years before the war, and there was only room for one horse at a time.
112	Road passes under a hill crowned by a stone fort to



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	DOLUMN 00	(98)
	ROUTE 28 a , 191	
Miles from Baghdad		
	Qasr-i-Shīrīn (see Gazetteer of Persia, vol. ii). Supplies	
	plentiful. Water abundant. Grazing good. Fuel scarce. Road to Mindar (Route 28 b, m. 122 ¹ / ₄). For routes to	
	Suleimāniyeh and Chīāh Surkh see App., pp. 397–398.	
	Authority: -Routes in Persia, Corrections to vol. iii, 1914, no. 96.	
	From Qasr-i-Shīrīn to Ser-i-Pul there is a route, alternative to that	
	described below, fit only for lightly laden mules or donkeys, but 5 m. shorter than the main road. The Alvand River can be	
	recrossed at any point desired to regain main road, and so avoid	
	crossing the Ab-i-Dereh. No water, supplies, fuel, or fodder. Leave 'Ali Murād Khān village, opposite Qasr-i-Shīrīn, on the	
	S. side of the Alvand river. Route almost immediately enters	
	Sumbulak (gypsum mountain), passing over ridges and hills of gypsum for 4 m. Road extremely bad in places, and treacherous	
	in wet weather.	
	Miles	
	0 Qasr-i-Shīrīn. 3 Seyyid Khatil village passed on l.	
	5 'Ajab 'Ali.	
	15 Ser-i-Pul.	
	For the rest of the route only a summary account of the	
	general character of the stages has been given. For details see <i>Routes in Persia</i> , vol. iii, 96, stages 8–15.	
	From Qasr-i-Shīrīn to Ser-i-Pul the main road runs in	
	a general E. by S. direction. It is passable throughout	
	to all arms, but would be heavy in wet weather, and	
	laborious owing to the amount of loose shingle and stones.	
132	Ser-i-Pul (i-zuhāb). Supplies are procurable. Water	
	abundant. Forage and grazing good. Fuel from adjacent	
	mountains. For route from here to Deh Bālā see Routes	
	in Persia, vol. iii, 97. From Ser-i-Pul to Surkhadiza Khān the road runs in a	
	general ESE. direction. It is passable for all arms, but	
	the Turks are reported to have difficulties with transport	
143	at the Tāq-i-Garra Pass.	
140	In this neighbourhood is the Tāq-i-Gārra Pass, at the W. end of which is Pāi-Tāq village (see above m. 75).	
149	Surkhadiza Khān. Supplies scarce. Water abundant.	
	Fuel plentiful. Forage abundant. From this point to	
	Karind the general direction is SE. Road bad throughout,	
	for the first 3 m. on account of loose stones and rocks,	
Bearing !	and later because it is not only stony and rough, but liable to become heavy and swampy after rain and snow.	
-	to secome neavy and swampy after ram and show.	



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192	LAND ROUTES
$rac{ ext{Miles from}}{ ext{Baghdad}}$	Karind. Supplies, water, forage, and live stock plentiful. Fuel obtainable. General direction to Khorāsābād is SE. Road for first mile from Karind and between m. 170 and m. 174½ is bad and stony, otherwise good. It is passable for all arms throughout, running over cultivated plain with friable soil.
175½	Khorāsābād village (see Route 28 b, m. 170¾). Camping ground beyond village on grassy plateau. Wood, water, and forage plentiful. Supplies obtainable from villages in neighbourhood. Road to Harūnābād runs SE. It is mainly a gentle descent crossing several streams, and is
183½	mainly a genue descent crossing several streams, and is passable throughout for all arms. Harūnābād. Limited supplies. Water plentiful. Forage except in winter. Wood from the mountains. Route runs in a general NE. direction to Sālārābād. It is good except possibly at the Na'l Shikan Pass (see m. 190½ below) where the Turks are said to have met with difficulties of transport in summer, 1916. An alternative route to Māhīdesht (see m. 205½ below), though it also goes through the Na'l Shikan, is said to be good and passable for all arms. See Routes in Persia, vol. iii, 96, Alternative route to the said to be good and passable for all arms.
$186\frac{1}{2}$	tive (A). Here an alternative route to Kirmanshah branches off to E. See <i>Routes in Persia</i> , vol. iii, No. 96, Alternative (C).
	Miles (contd. from main route) 206½ Tang-i-Shuvan village, just below pass of same name. Supplies might be collected. Water plentiful. Forage abundant. Wood from adjacent mountains. From here across Tang-i-Shuvan to the Siah Chaga the general direction is NE. Road is passable for laden animals as far as Adawar, but bad in parts. From Adawar the road is passable to all arms, but would be very heavy in winter. Head of Tang-i-Shuvan pass. Descent for first ½ m. very steep and dangerous. 212¾ 217¼ Siah Chaga village on Āb-i-Mark river. Supplies could be collected. Water good and plentiful. No fuel, except
	cowdung, available nearer than the Kurkur range. General direction to Kirmanshah NE. Road passable as far as the Ser-i-Āb for all arms. Road begins to ascend to the pass of Sāfīd Kuh. Gradients



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٩٣] (٢٠٢/٢٠٤)

		ROUTE 28 a 193	
Miles from	Miles	ROUTE 28 a 193	
Baghdad			
	main		
	route)	over this range are sometimes steep, and guns would have	
	2223	to be let down with rones in places	
	225	Summit of pass. Descent steep at first. Ser-i-Ab at foot of slope: a large spring from which flows	
		the chief water-supply of the city of Kirmanshah From	
		Ser-i-Ab several paths, some narrow and intricate, lead through gardens to Kirmanshah. Route from Ser-i-Ab	
		is passable for laden animals. Guns should make a considerable détour to W. to strike main road from Harūnābād	
	2291	via Manidesht.	
1901		Kirmanshah.	
1002	Entra	ance of Na'l Shikan Pass (see above under m. $183\frac{1}{2}$), or which road is very had and storm D	
	sun	or which road is very bad and stony. Descent from mmit contains gradients which are steep and slippery	
	Ior	guns. (Another account describes the gradients as	
$193\frac{1}{2}$	eas	y, the going being rocky and slippery in places.)	
2	in s	sabad. Supplies scarce. Water from streams. Forage spring and summer. Fuel procurable.	
	From	Sālārābād to Māhīdesht the general direction is N. by	
2011	Li.	The road is good and passable for all arms.	
	goin	alternative route to Kirmanshah branches off to 1., ng NE. See <i>Routes in Persia</i> , vol. iii, 96, Alternative	
	(B).	Atternative	
	Miles	the could will be the control of the	
	from main		
	route)		
	207	Cross the Ab-i-Mark stream, 14 ft. broad, 10 inches deep, between 18-ft. banks, 20-30 yds. apart. Much cutting	
		necessary to render river passable for guns. Cross alluvial	
	,213	plain, with villages. Route runs through down country.	
	2151	Summit of hill, 400 ft. First few hundred yards of descent impassable for guns. Beyond, the descent is gentle.	
	$216\frac{1}{2}$	Ser-i-Ab-Nilnfar, small village. Water good from neigh-	
	MILL SEE	bouring lake. Grazing good in the vicinity. From here to Kirmanshah the general direction is SE., but in the earlier	
	2191	part of the stage the route makes a bend to northwards. Kirmanshah—Suleimāniyeh road is reached and followed	
	2301	into Kirmanshah. See Route 35.	
2051		Kirmanshah.	
2	tiful	desht (generally known as Moidasht). Supplies plen- l, except in winter. Water and forage abundant.	
	Gra	zing good in spring and summer. From here to	
MES. III		N	



"كتيّب بلاد الرافدين. المجلد الله ١٩١٧ [٩٤] (٣٢/٢٠٣)

194 LAND ROUTES Miles from Baghdad Kirmanshah road goes in a general ENE. direction. It is throughout good and passable for all arms. Kirmanshah (see Gazetteer of Persia, vol. ii). Supplies 222 Water and forage plentiful. Fuel from the abundant. mountains. ROUTE 28 b SER BAGHDAD—KIRMANSHAH (217¹/₄ m.) dire t ila. Via Mandali Authority: -Routes in Persia, vol. iii, no. 95, from reports of 1897, 1903, and 1906. There was very little traffic on this route before the war. It was used by the people of Mandali to carry produce to Kirmanshah, but not by people from Baghdad. As far as Beledrüz (also spelt Bālādöz) it has been in use as a route for carts carrying heavy machinery, &c., for the D'Arcy Oil Company. (For another road to Beledrüz see Route 30.) The remainder of the route in its present condition DE I is only a mule track. It is a difficult route for camel transport. As far as Mandali the route lies over alluvial plains which after rain become more or less inundated and impassable owing to the boggy nature of the soil. Even a little rain, by making the road slippery and sticky, may produce a serious obstacle. After heavy rain some 24 hours at least are required to allow the road to dry sufficiently 197 180 to permit of the passage of caravans. The latter part of the route lies through mountainous and rocky country, and the going is bad mi until the main Baghdad-Kirmanshah route is reached at Khorāsābād (see m. $170\frac{1}{4}$). To render the route fit throughout for the passage of carts a large amount of labour would have to be expended on a great number of points. Till Khorāsābād there would be practically no supplies along the route with the exception of the stretch from about 16 m. before Beledrüz and the stretch between Beledrüz and Mandali. A certain SUP. amount of live stock, however, might be purchased from nomads. After the rains in the spring there would probably be an abundant supply of grass and grazing for animals, but later in the summer it would be extremely scarce. Fuel would be scarce or practically non-existing until the Persian border was crossed, after which there 訓 would be a certain amount of small shrubs and bushes, becoming more plentiful in the later stages. The water for the first 73 m. is rather brackish, more particularly in the summer months. In 利加



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٩٥] (٤٣٢/٢٠٤)

	ROUTES 28 a b 105	000
abundar practica	Baghdad. The general direction of the route is NE. The country through which it runs is flat but interspersed with mounds which are seldom more than 15 ft. above the surrounding country and have gently sloping sides. They form no real obstacle to the movement of men, horses, or even carts, but they afford cover to view or fire to a considerable distance in rear of them. For the first 8 m. the track is passable for carts in dry weather, but even a little rain is a serious obstacle, and after a heavy fall it would be impassable for at least 24 hours after the ground began to dry. An inch of rain makes the country difficult even for men on foot. The first group of mounds mentioned above. Silted-up remains of old canals running generally N. by W. to S. by E. There are two or three such embankments varying in height from 15 ft. to 5 ft., and in breadth from 40 ft. to 10 ft. The soil, which up to this point has been a light clay, now becomes more sandy. Boat ferry at the Diyāleh. The river here has steep banks	00
	even at the ferry, and they are in many places precipitous. It is about 60 yds. wide. The depth varies considerably according to the season, say from about 15 ft. to 2 ft. The current of the river varies according to the season from 4 m.p.h. after a rise to an almost imperceptible flow during the dry season. The ferry a few years before the war consisted of a light boat of rectangular or punt shape, about 30 ft. long by 10 ft. wide, one end of which was open and nearly flush with the bank; at this end embarkation and disembarkation took place. A slack hemp rope was stretched from bank to bank and moored to wooden pegs let into the banks. Along this rope the ferry-boat was hauled by men in the boat; two men sufficed for this unless the wind was unusually strong and directly up and down stream, when more labour would be required. The boat could carry eight horses at a time,	

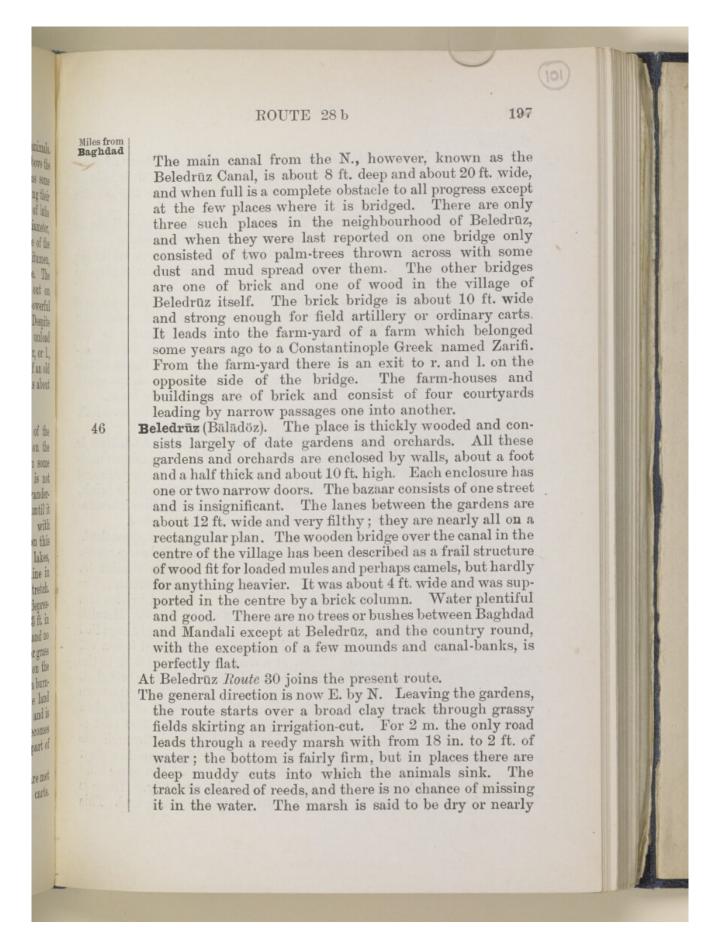


"كتيّب بلاد الرافدين. المجلد الله ١٩١٧ [٩٦] (٥٠٢/٢٠٥)

LAND ROUTES 196 Miles from Baghdad and a proportionate number of mules or other animals. The sides of the boat were only about 3 ft. above the water, and if the animals were restive there was some Dith danger of their jumping out of the boat or putting their feet through the sides, which were lightly built of laths AND S laced between timbers about 4 to 6 inches in diameter. which formed the ribs of the boat. The outside of the boat was covered with a kind of pitch or bitumen, apparently a sufficient protection against leakage. The boat was furnished with a long rudder built out on a framework of light timber. The rudder made a powerful lever, and the boat was proportionately handy. Despite the steepness of the banks, it is not necessary to unload animals laden with ordinary weights. On the far, or l., bank there are at a distance of 50 ft. the remains of an old canal - the Nahrawan Canal. It is silted up but is about 20 ft. wide and about 10 ft. high. 14 Abu 'Arūj, a little N. phirt General direction of route NE. The country E. of the Divaleh is said to be much greener than that on the Baghdad side. There is sporadic cultivation in some hollows where rain-water has collected, but it is not annual. There are one or two encampments of wandering Arabs who halt at places where there is water until it is finished. The country is featureless and flat, with a few mounds at intervals. During the h. w. season this portion of the desert is dotted with shallow lakes, and it is not possible to move in a straight line in any direction for more than 3 or 4 m. at a stretch. These lakes are merely collections of rain-water in depressions of the ground, and do not generally exceed 3 ft. in depth. There are no reeds or grass in these lakes and no cover of any kind on or near them. During winter grass is abundant but very short, and in the hot season the water and grass disappear, and the place becomes a burning desert of dust. A portion (not located) of the land along this route belongs to the Dā'irat es-Sanīyeh and is ter fertile. As one approaches Beledrūz the land becomes lower and marshy. During or soon after rain this part of lais the country must be quite impassable. At 2 or 3 m. from Beledrüz a few irrigation channels are met with, but they are not a serious obstacle even to carts.



"كتيّب بلاد الرافدين. المجلد الله ١٩١٧ [١٩٧] (٢٠٢/٢٠٦)





"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٩٨] (٢٠٢/٢٠٤)

so in the summer months. By making a détour of some miles to the S. the marshy part to be crossed is said to be less, but the route described seems to be the regular caravan route. The marsh is left, and the plain regained, in the hollows of which there is an abundance of short green grass. Small stream, with an occasional pool of sweet water (in spring?). From here the ground slopes down gently to Mandali. The Nāfāt River, a sluggish stream 20 to 25 yds. wide and 6 ft. deep, with steep earth-banks lined with reeds and tamarisk scrub. In the hot weather the water is not only unpleasantly flavoured with petroleum, but is unwholesome to drink, causing diarrhoea. The banks of the Nāfāt are at present impassable for carts, but ramps could easily be made, for the soil is a soft red sandy loam. Ford over the river, which is some 40 yds. wide and 2 ft. deep, with easy approaches. Bottom muddy. The large tomb of Nabi Tehrān or Imām 'Abdallah is passed, on a mound 1½ m. to the S. A stream flows midway between it and the road. There are several springs and streams passed in this dip, all brackish and unfit to drink, and the ground is thickly covered with saline incrustations. The only vegetation is a few low bushes.	198	LAND ROUTES
Mandali, village situated in a large patch of date gardens. It is surrounded by trees in walled gardens similar to, but much more extensive than, those in Beledrüz. The houses are largely built of mud or sun-dried bricks, and the enclosure walls in nearly every case of mud. Mandali is on ground sloping to the S., and is amply supplied with good water, which is brought by a canal taken off, from the Gangīr River, at a distance of about 3 m. to the NE. of the town. This canal divides into three branches, of which one turns northwards without entering the town and is lost in the desert about 6 m. to the N. of Mandali. (This branch may be almost parallel to the first part of Route 29). The other two branches pass through the town and bifurcate in various directions on the way.	$ \begin{array}{c} \text{Miles from} \\ \text{Baghdad} \end{array} $ $ \begin{array}{c} 50\frac{3}{4} \\ $	miles to the S. the marshy part to be crossed is said to be less, but the route described seems to be the regular caravan route. The marsh is left, and the plain regained, in the hollows of which there is an abundance of short green grass. Small stream, with an occasional pool of sweet water (in spring?). From here the ground slopes down gently to Mandali. The Nāfāt River, a sluggish stream 20 to 25 yds. wide and 6 ft. deep, with steep earth-banks lined with reeds and tamarisk scrub. In the hot weather the water is not only unpleasantly flavoured with petroleum, but is unwholesome to drink, causing diarrhoea. The banks of the Nāfāt are at present impassable for carts, but ramps could easily be made, for the soil is a soft red sandy loam. Ford over the river, which is some 40 yds. wide and 2 ft. deep, with easy approaches. Bottom muddy. The large tomb of Nabi Tehrān or Imām 'Abdallah is passed, on a mound 1½ m. to the S. A stream flows midway between it and the road. There are several springs and streams passed in this dip, all brackish and unfit to drink, and the ground is thickly covered with saline incrustations. The only vegetation is a few low bushes. A few scattered fields of barley as the town is approached. Mandali, village situated in a large patch of date gardens. It is surrounded by trees in walled gardens similar to, but much more extensive than, those in Beledrūz. The houses are largely built of mud or sun-dried bricks, and the enclosure walls in nearly every case of mud. Mandali is on ground sloping to the S., and is amply supplied with good water, which is brought by a canal taken off, from the Gangīr River, at a distance of about 3 m. to the N.E. of the town. This canal divides into three branches, of which one turns northwards without entering the town and is lost in the desert about 6 m. to the N. of Mandali. (This branch may be almost parallel to the first part of Route 29). The other two branches pass through the



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٩٩١] (٣٢/٢٠٨)

	(lor)	
	ROUTE 28 b 199	
Miles from		
Baghdad	stream is very rapid near Mandali, about 5 m. an hour,	100119
Som rese	and the water is about $2\frac{1}{2}$ ft. deep and 60 ft. wide at the	
	end of February. The banks are greatly shelving and the bottom is pebbly. At the time when the snows have	
	begun to melt the stream is probably much larger.	
	The road continues in a general NE. direction. It runs	
	at first through the narrow street and date gardens	
	between high mud walls, and crossing several small	
	irrigation channels emerges on to the plain and follows the edge of the enclosures.	
74	Date-groves end, and road crosses a wide grassy plain, leading	
	towards gap in the range in front.	
$75\frac{3}{4}$	Two small irrigation canals 6 ft. wide and 2 ft. deep are	
	crossed. Small date plantations, with tombs dotted along- side these canals. There are also several mills, and the	1011
	banks are lined for a short distance with barley crops.	10011
	The clay soil ends here, and the ground becomes stonier	1011
	and rougher.	8018
$76\frac{1}{2}$	The Rūd-Khāneh-i-Gangīr or Āb-i-Ravān (Gangīr River) lies 500 yds. S., running in a wide gravel bed along	100112
	several small channels. The road crosses some low	BB16
	undulations.	10011
$77\frac{1}{4}$	Route lies along the course of the river here 400 yds. wide.	100
	The water is brackish, and the banks quite bare of vegetation. On the l. bank are some low sandstone	翻纸
	cliffs.	BB B
$77\frac{1}{2}$	The Turco-Persian frontier is here marked by a pile of	100
	stones standing just at the mouth of the open valley	2010
	through which the road now runs, leaving the plain. The road is a good 30-ft. track over red sandstone and	1018
	gravelly conglomerate. This open defile, where the	1018
	river debouches into the plain, is known as the Tang-i-	1011
FO	Sunmar.	101
78	Road continues up the valley, here about 1 m. wide, bordered by low undulating hills. A small and very brackish	
	stream enters on the left bank from the direction of	
	Jebel Atish. Naphtha springs lie in that direction. The	1
	river here winds considerably.	1
	[From this point only a summary is here given of the detailed report	
	in Routes in Persia, vol. iii, no. 95.]	100
	Road continues up Gangīr Valley by a track generally easy	
		11119



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٢٠٠] (٣٢/٢٠٩)

200	LAND ROUTES
Miles from	
Baghdad	
	and broad, occasionally crossing spurs of hills over
	gravelly or stony soil. Patches of grass occur here and there. Rounded hills at first border the valley, becoming
	steeper and more rugged farther on. River forded at
	III. 13, III. 345 (01 possibly m. 952) and m 021 m
	second ford is difficult owing to swiftness of stars
	Thiver-water brackish up to m. 91. Sweet spring on I have
981	at m. 13, and several springs of good water at m on
002	Muaranna camping-ground. Good water, excellent grazing. Summer camp of Karind Kurds; no village.
	Direction still NE. and up valley, across several ravines
	and clay undulations. Track rough where it follows
105	river-bed from m. 99 to m. 100. Then fairly easy till
105	Steep rocky spur juts across valley causing river to make
	a snarp bend. The track ascends a side valley for a short
	distance and then turns up over the ridge, following a steep ascent for 300 yds. by a series of short zigzags.
$107\frac{1}{4}$	Road descends into the river valley and again reaches a wide
ANTE I	grassy terrace overlooking river-bed. A cutting in the
No 12 Mary	soft shale round the extremity of the ridge would make
Mark Street	this into a good cart-road. About 1 m. farther on the
	road becomes for 500 yds. a track along a 1 to 2 foot ledge, taking advantage of the broken parts of nearly vertical
	strata overhanging the river. It is impossible to avoid
net carried	this bad portion as the river is not fordable here. Cuttings
	in the soft shale would not be difficult. The road then
Marie 1	becomes a broad track closely overlooking the cliff along the left bank.
1083	Pass through Tang-i-Shutar Gardan gorge.
1093	Ford river. The ford is 40 vds, wide and 2 ft, deep over
	a rough, rocky bed in a rapid stream. Approach and
1101	ascent easy. Road now enters Sambak Valley
1104	Road turns sharply to the right up a side valley, the Tam Valley, the track following bed of a small stream.
1111	valley gradually opens out into the wide undulating plain
10 10 11	of Cham-i-Surkh, rising towards the N. with some signs of
	irrigation and cultivation, with several side valleys. The
1141	stream nowing through this plain is crossed four times
1114	Camping-ground in centre of valley. The only supplies would consist of sheep and goats, which could be pur-
	chased from the homads in large numbers. Water from
- sagaril	the stream good. Grazing excellent.



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٢٠١] (٢٢/٢١٠)

	ROUTE 28 b	201
Miles from Baghdad		
	General direction to Zarneh Valley is SE. R	
	follows a broad track up the centre of the va	
	stream bank inclining towards N.E. and ascending. Several small springs in the hill	
	the water-supply good and abundant. On the	
	plain is a curious isolated hill called the Qal'ah-i	
	the top of the hill being crowned by a cliff 60 the rules of an old fort.	ft. high and
$115\frac{3}{4}$	Road skirts slope of Bāgh Kūh range to E.: le	ower slopes
	earth, with large boulders; shrubs, stunted ile	ex, and oak.
$117\frac{1}{4}$	Road turns up through the Tang-i-Khushk a	
	a gentle slope up a valley. Gīlān Kūh, a s ridge bounding the valley to the NW., lies to l	
	is a deep gap between this and the Bāgh Kūh.	
	of the pass the gradient is 5° and the valley is 6	
	broad with a small stream. The road winds a and boulders and is stony, but is fairly easy g	
	ascent to the summit of the pass is gradual the	
	and could be made a good cart-road. It is	
1191	passable for artillery.	ulah Disin
1104	Summit of pass, 1,875 ft. above the Cham-i-Su Immediately below to the NE. lies a deep na	
	running down towards the Gangīr. The roa	
	summit keeps along that side of this valley a	
	and narrow; in places it is only an 8 to 5 ft. rich clay covered with grass. After 2 m. the ro	
,	by a series of sharp zigzags.	ad descends
$121\frac{1}{2}$	Road takes a sharp bend through the lower pass,	also known
	as the Tang-i-Khushk. The pass is a rift in the range from 30 to 40 yds. wide, the total le	
	1,300 yds., bordered by precipitous cliffs of grey	
	The road is rough and stony and in the sprin	g a torrent
	sweeps down the centre. It is level through the last 300 yds. the track lies in the dry bed of	
	There are several caves at the N. mouth of the	
	farther on the road opens out into a narrow	valley with
1221	steep stony sides, and ½ m. farther emerges in	
4	Mindar Valley running NW. in the direction of SE. in the direction of Zarneh. It is here 1½ r	n, wide
	To the different of Zaminon. It is not only	u. Wide.
	Route, passable for wheels except at some bad ravines,	to Gilan and
	Qasr-i-Shīrīn (Route 28 a, m. 112).	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ " [٢٠٢] (٢٠٢٦٤)

202	LAND ROUTES
Miles from	
Baghdad	See Routes in Persia, corrections to vol. iii, 1914, no. 95 B.
125	The summit of a long gradual ascent on an easy track reached, this ridge forming watershed of the Gilān at Zarneh valleys. Road passes ruins on the site of Kara Trees gradually disappear as descent is made, and Zarne Plain is quite bare.
$134\frac{1}{2}$	Camping ground near the ruins of old Zarneh . Supplied possibly procurable from nomads. General direction of road to Charmilleh NE. It follows a broad track down centre of the valley over gravely soil where going is easy. It slopes gradually towards the centre and numerous small streams are passed flowing towards Zarneh. These join the head-waters of the Gangīr.
$139\frac{1}{4}$	Ruins of village of Zarneh on a large tumulus 200 yds. if diameter and 100 ft. above the plain. A few of the house are still standing. Just north of the tumulus lies a large spring called the Chasmeh-i-Zarneh , from which a stream of good water issues. Numerous other small springs at passed and water is abundant at all times of the year The plain grows good grass, and patches of Indian corrare sown on it by nomads as soon as snow is off the ground. At southern end of plain is Manisht Küh.
1401/4	The road leaves Zarneh Plain and turns up through a part in the ridge bordering it on the E. The pass is 30 to 40 ft. wide at its narrowest, and 400 yds. at its broades bordered by steep grassy slopes dotted with a few tree and topped with steep rugged cliffs. The track is leve but the going is rough owing to loose stones which might at parts easily be cleared away. At times the road follow the dry bed of a stream.
143	Road emerges into a small grassy valley \(\frac{1}{4} \) m. broad bordere on the N. by a steep ridge called the Gumir Kūh in passable on this side because of sheets of vertical limeston strata. The valley runs up 2 m. in a NW. directio and is well wooded. The road leads diagonally across the valley. To the S. lie the undulating table-land and hill of Asimābād or Asmānābād , where are the extensive ruins of an ancient city. A long gradual slope rises from here to the flat summit of Manisht Kūh .
$144\frac{1}{2}$	Head of the valley is reached and the road turns E. u



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٢٠٣] (٢٢٢٢٤)

		b 203	
	ROUTE 28	200	
Miles Bagl	from dad	O rids through trees The	
	a stony, rough ascent for 40	00 yds. through trees. The lly much obstructed by large	
	stones and (at m. $145\frac{1}{4}$) by	a rough, steep ascent under	
	overhanging trees.		
14	Summit of col is reached and r	oad proceeds along ridge by	
	a broad track. Soil is rich a	nd grows good grass. Track rough forest and the going is	
	easy The head of the Chil	lav Valley is passed. Track	
	descends from the head of the	ne col into it and then turns	
	north again and emerges int	0	
14	A small grassy basin shut in	imes used by the nomads as	
	a camping-ground. Supplie	s, especially live stock, might	
	be obtained from the nomad	s.	
	A road runs through the Chillav	Valley from Gilan, and another	
	branches off here to Harūnābād Through the valley also passes a r	through Guar.	
	Deh Bālā. See Routes in Persia, v	ol. iii, 97.	
	The route now goes in a genera	al N. direction to Tirau camp.	
	Begin the ascent of the Kal	āja Kūh, a lofty rocky ridge	
	separating the road from the	Harūnābād district. Track improved by clearing loose	
	stones. Steep stretch for 3	300 yds. at m. 150. Ascent	
	thence to summit more grade	nal and consisting of several	
	mule-paths running between	large stones; along the side	
15	a stony ravine: dwarf oaks. Summit of Derbend-i-Kalāja	Pass. This is the highest	
	point on the route. The c	rest of the ridge, a rounded	
	summit, lies 1,000 ft. higher	to the right. The descent of	
	the northern slope of the	range is much steeper and mes easier towards the end.	
	Foot of the range is reached an	d the route strikes across the	
	Guar Valley, which extends	for some 20 to 25 miles. It	
	averages 3 to 4 m. in width a	nd is covered with abundance	
	of fine grass and watered by	numerous small springs and	
	streams from the foot of the	e border ranges. Stream in t. wide and 8 inches deep with	
	sloping earth-banks, flowing	over a gravelly bottom.	
18	6 Defile of the Tang-i-Juimerk	, 300 yds. broad, is entered, in	
	the range bordering the vall	ey on the N. Road is a level	
	and much used track: roc	ky shelving slopes on either	
	hand; no difficulties except	from stommess of road.	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٢٠٤] (٣٢/٢١٣)

204	LAND ROUTES
Miles from Baghdad	
$156\frac{3}{4}$ 158	Road bifurcates, one branch going direct to Karind over the Nua Kūh: said to be a rough mountain track. The other side of the valley reached and road ascends a suc-
	rough with scattered loose stones. Track good but very
159	Summit of ridge reached and route zigzags down a narrow track over stones and boulders and between low trees. The slope of the hill is 22°. This is the most difficult portion of the route between Charmilleh and Tirau camps. After a descent of 320 ft. the road reaches the level of
	the Tirau Valley and starts along a broad track across
1601/4	a grassy valley. Several old ruins. Camping-ground by small stream. Soil rich gravelly clay. This is a summer camping-ground of nomads, from
4041	whom supplies might be obtained. Water from the stream. Grazing plentiful. Fuel good. General direction of road N. It strikes diagonally across valley to ascend rounded ridge NW. of the valley.
1614	Route ascends rough, stony mule-track 6 to 8 ft. broad following the side of a small ravine. This might be made a good road. The series of undulating hills hereabouts is known as the Chalbaca Kūh , which forms part of
	a long spur from the Nua Kuh to the NW. Paths cross it at any point.
1621/4	Undulating plateau dotted over with good oak and pistachio trees. There is no perceptible track here and horses sink into the soft friable soil at every step.
1631	Gradual descent begins, following the line of a rocky ravine.
$164\frac{1}{2}$	Road emerges on to a lower grassy terrace of the ridge by an easy gradient. $\frac{3}{4}$ m. farther on the ruins of a village are passed and the road descends a grassy valley bordered by
E	a few stunted trees. Soon after the valley narrows to ¹ / ₄ m. with craggy sides and the going becomes more stony.
$167\frac{3}{4}$	Route emerges into an open basin $\frac{1}{2}$ m. wide with fine grass. $\frac{1}{2}$ m. farther on the valley again narrows to 100 vds, with
	low cliffs on either hand. The track is stony but the going easy; a little clearing would make a road of easy gradient through this pass. 3/4 m. farther on valley opens
	out again. Side valley bounded by rounded hills stretches away to l. for about 1 m. All this ridge is fertile and grows rich grass. It has numerous ruins but is unin-



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	ROUTES 28 b, 29 205	
Miles from	1000126 20 3, 20	
Baghdad.	habited. The road now enters a craggy valley bordered	
	by cliffs of grey limestone down which runs the Karind	
	River. This is called the Tang-i-Ismā'īlu .	
169	River is forded, 30 yds. wide and 2 ft. deep with a rapid	
	stream over a stony bed among boulders; the route con-	
	tinues along a broad track down the left bank; the pass is 100 yds. wide and on either side are two high, conical,	
	craggy cliffs. Emerging from the pass the river makes	
	a rapid turn off to the r. and the road leaves it and turns	
	up a small valley bordered by rounded hills. It is	
	a well-defined, easy track along a stream-bed almost dry. Some cultivation along river bank. Wheat seen here for	
	the first time since leaving Mandali.	
$170\frac{1}{4}$	Main road from Baghdad to Kirmanshah via Khanikin	
4=02	reached.	
$170\frac{3}{4}$	Village of Khorāsābād , 50 flat-roofed huts of mud and stone. Grazing good. Fuel plentiful.	
	For continuation of route to Harūnābād (178\frac{3}{4} m.), Sālār-	
	$\bar{a}b\bar{a}d$ (188 $\frac{3}{4}$ m.), $M\bar{a}h\bar{i}desht$ (200 $\frac{3}{4}$ m.), Kirmanshah	
	$(217\frac{1}{4} \text{ m.})$, see Route 28 a.	
	ROUTE 29	100
	MANDALI—KHANIKIN (45 m.)	18
A	uthority:—Routes in Persia, Corrections to vol. iii (1914), Route 95 A.	
This	route is much used, especially by oil caravans. It connects	1 10
Route :	28 a and Route 28 b. In 1912 it was reported to be	1 10
Parsian	in winter and spring owing to brigands, as it lies on the frontier, and to be subject to raids from the Kalhur, Sanjabi,	
Ahmed	avand Buhtūī, and Qaraūlūs. It runs across a plain for most	
of its le	ngth, and is practicable for light wheeled traffic. The climate	
is exces	ssively hot during June-September owing to the hot wind	1
January	as $b\bar{a}d$ - i - $s\bar{a}m$. Grazing in plenty is to be obtained from to March, none at other seasons. General direction N.	10 100
	he neighbourhood of Mandali beyond the date plantations	10 111
of the t	own the ground is broken. Water, good and bad, is here to	12 100
be foun	d. Encampments and villages of Qaraulus are to be seen.	
	s a choice between several tracks out of Mandali. One track	1 1
15 Said	to go a little E. of the Gangīr River, which is rapid and	
		10.00
		1

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	LAND ROUTES
Bāghch The gro April no passed t Khanik A rep brackish	ample water at all times. The route then approaches the ch Hills, and follows round the foot, passing over the spurs. Ound is stony and bad: gullies are crossed in places. After a water is to be found beyond a small spring in Qatār. Having the Bāghcheh Hills (?33 m.) the country is flat as far as in (45 m.). Ort of 1916 refers to one canal of good water, and slightly a water elsewhere between Mandali and Khanikin: exact of specified.
	ROUTE 30
	BAGHDAD—BELEDRŪZ (52½ m.)
	Via Bahrīz
	Authority:—Routes in Persia, vol. iii, 95, Alternative Stage (A).
Miles from Baghdad 0 24 28 $28\frac{1}{2}$ $29\frac{1}{4}$	Baghdad. General direction NE. For the first 24 m. of the road, see Baghdad—Kirmanshah via Khanikin (Route 28 a). For general description of the country on the route see introductions to Routes 28 a and 28 b. Here main road and T.L., which proceed in the direction of Bāqūbeh, are left. Bed of an old canal is crossed. Sudden dip in the plain is reached. The Diyāleh River is here about ¼ m. S., the river making a sharp bend. The road crosses a hollow, said to be the ancient bed of the river, in which there is water in high floods. River bank is reached. The stream is about 150 yds. wide, with a moderate current. It runs in a deep bed sunk 25 to 30 ft. below the general level of the plain with steep earth banks. Ferry, as last reported, consisted of an old hull of a native craft (baghalah) which carried about six animals. Bahrīz, 400 houses on 1. bank of the stream. There are two caravanserais and a small but well-supplied bazaar, in which grain and dates, &c., are procurable in abundance, and fruit in autumn. Supplies plentiful. Good water from the river. Grass on the plain in the spring. Road now goes in a general E. direction. Leaving the caravanserai the road at first skirts the Khorāsān Canal,



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	DOTUMES 90 90 91	(106)
35:1-0 6000	ROUTES 29, 30, 31 207	
Miles from Baghda	it. The track is 10 to 12 ft. wide, through barley and	
	wheat fields. Good clover and grass on the waste land.	
	The canals are mostly 4 ft. wide and 1 ft. deep, and easily	
	crossed. The main channels are 6 to 8 ft. deep, and difficult for mules. Flocks of sheep and goats are grazed	
	on the plain.	
$31\frac{1}{2}$	Small shrine of Imām Abu Feyyāb passed 1 m. to the S. There is a cluster of huts, with a few date-trees round it.	
	This forms a good landmark on the plain. The belt of	
	irrigated land now gradually ceases, and open alluvial plain commences. The shrine of Abu Khums lies about	
	6 m. to the S.	
33	Irrigation cuts are left, and the route strikes across the plain in a direction almost due E. Winding track.	
36	Shehr Habīb, extensive ruins, strewn with broken pottery	
	and bricks, marking site of an ancient town. Water lodges close by in some of the hollows of old canals,	
	where plenty of green grass is to be found.	
$39\frac{1}{2}$	Good water hereabouts, apparently from canal.	
$41\frac{3}{4}$ 42	The last of the brick mounds is passed. Small tomb 2 m. to the S. on a mound.	
$44\frac{1}{2}$	Marshy hollow, about 1 m. square, to the N. The water in	
	these hollows is not good, but is sweet and drinkable. A few Arab encampments with flocks of sheep and goats	
	may be seen. The general direction of the canals is NE.	
	and SW. They are not in straight lines, but wind in all directions.	
$52\frac{1}{2}$	Road reaches the W. side of the large grove of dates, in	
	which Beledrüz (also written Bālādöz) is situated. (For description, see <i>Route</i> 28 b, m. 46.)	
	ROUTE 31	
	BAGHDAD—BĀQŪBEH (47 m.)	
Via TH	E DIYĀLEH BRIDGE AND LEFT BANK OF THE DIYĀLEH RIVER	
	Authority: Route Report of January 1904	
For m	nain road to Bāqūbeh see Route 28 a. In 1904 the country	
or 2 m.	above the mouth of the Diyāleh (m. 9), near Bahrīz (m. 43),	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٢٠٨] (٢٠٢/٢٣٤)

the Diy above re the Diy describe as beari complet	Baghdad. Leave the city by the gate called Bāb esh-Sharqi, and proceed SE. Qarāreh, on l. bank of the Tigris. (Boat-bridge here across the Tigris often removed in flood season: for description, see vol. ii, Route III C, m. 190½.) Proceed on l. bank of Tigris. Mouth of Diyāleh River. Cross boat-bridge. In 1904 this bridge consisted of 16 boats, with one spare boat: each was flat-bottomed, 32 ft. long, 12 ft. wide, and 6 ft. deep. The bridge was divided into four sections connected by planking. The banks at the bridge, though ramped, were reported steep (about 20°) and difficult for wheels. In the neighbourhood of the bridge they were precipitous and 30 ft. above water. A few mud huts at each end of the bridge. Turn NNE., and ascend l. bank of Divāleh River. Many	is alm nis O in his neighbor of the point of
11 15	water-cuts, described in 1904 as 'very difficult or rather impassable for wheels without a little bridging or ramping'. Water-cuts cease. Country 'an open desert—cultivable but uncultivated in all directions' (1904). In this neighbourhood there was in 1904 an encampment of Arabs belonging to a small tribe called Neza Da'ag (?). The authority already mentioned 'camped in their vicinity after having marched for six hours' (from Baghdad). Continue along l. bank over open sandy plain. In some places the sandy dust is heavy and trying to animals. Track crosses and recrosses several times an old dry canal or river bed, marked on recent maps as the Nahrawān Canal, on earlier ones, apparently, as the old bed of the Diyāleh.	HAND to Loin the Se Se to the Control of the Contro



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٢٠٩] (٢٢/٢١٨)

	(107)	
	ROUTES 31, 32 a 209	
Miles from		
Baghdad	Page 'Alm Amii formy navoge the Divileh near Sifweh	
$23\frac{1}{2}$	Pass 'Abu Arūj ferry across the Diyāleh, near Sifweh ruins. Continue along l. bank.	
32	In this neighbourhood the authority of 1904 crossed the	
0=	'old bed of the Diyāleh' (Nahrawān Canal?, see p. 33) at	
	the point where it took off from the Diyāleh. He adds,	
	'This point was about 5 m. S. of Abu Khums, and the	
	alignment on the map (Sheet 56, SW. Asia Series) of this	
	old bed of the Diyaleh is quite misleading. At this point	
	it looks as if the bank of the present stream were giving	
	way on the E. side, and as if the river would in a high	
	flood again take the old bed. This might result in a large marsh near Sifweh, which would probably affect	
	the climate and health of Baghdad.'	
37	Pass Abu Khums, a shrine in the plain, apparently 2-3 m.	
	E. of the river.	
	As Bahrīz is approached, the country is much broken by	
	water-cuts with narrow plank bridges. These water-	
	cuts would be quite impassable for artillery or wheeled	
43	transport (1904).	
40	Bahrīz. (See Route 30, m. 29½.) Between Bahrīz and Bāqūbeh the road crosses numerous	
	water-cuts impassable for artillery or wheeled transport	
	without some bridging. Date gardens along river begin	
	to l. of track a short way beyond Bahrīz.	
47	Bāqūbeh.	
	DOTIME 99	
	ROUTE 32 a	
	KHANIKIN—SALĀHIYEH (KUFRI) (33½ m.)	
Autho	rity:—Lorimer, Report on a Tour in Turkish Arabia and Kurdistan in	
	April-May 1910.	
This	route lies over open rolling country, the only serious	
	to artillery being the Diyāleh River (see m. 13\frac{1}{2}). On the	100
W. side	of the river the road is reported to be frequently intersected	
by smal	l ravines, few if any of them more than 12 ft. deep and	
20 ft. br	oad, and probably all capable of being easily made passable	
for arti	lery. The country seems to be fairly well populated, and	881
but th	a certain amount of cultivation. Water seems sufficient,	
	re is no information with regard to a water-supply, beyond	
MES. II	0	M
		100
		THE ST

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210 LAND ROUTES
the references to streams in the itinerary. Clover was seen here and there E. of the Diyāleh. The times given in the text of the itinerary are from the authority mentioned above: they are those of riders, not of the baggage caravan. The riders took 3 hrs. 22 min. from Khanikin to the Diyāleh ferry (E. bank), the baggage a little over 4 hrs. (Passage of river by raft-ferry, 3 hrs.) From the W. bank of the river to Zengabād the riders took 30 min., the baggage 40 min. From Zengabād to Salāhiyeh (Kufri) the riders' time was 5 hrs. 9 min., that of the baggage 7 hrs. 50 min. The approximate distances given in the margin are only calculations from the riders' times at an average rate of 3½ m. an hour.
Miles from Khanikin. Follow r. bank of Alvand River, here 20–30 yds. broad and generally fordable. At 15 min. leave bank of river crossing flat lands (fallow, &c.), passing a hollow called Darwanjik coming from hills on
the N. At 20 min. cross a canal called Quleh , 20 ft. wide, water 3 ft. deep, coming from W. Khanikin lies to SE., Kawazi village ½ m. NE., tomb of 'Abbās on a mound ¾ m. SW., Aliwayeh (100 houses of Kurds) 1 m. W. Just beyond this point the Quleh Canal is spanned by an
aqueduct 4 ft. wide. At 35 min. Aliwayeh village, mentioned above, lies 1 m. to S. by W. on a ridge, with small village (Mohammed Shehr Bey) in line with it ½ m. nearer. Husein village (50 Kurdish houses) lies 1½ m. to ENE. Imām Beidhā Mahmūd, tomb on light-coloured mound, 3 m. to NNW.:
two palm-groves on each side of mound (see m. 4½), behind them (out of sight) Bāweh Palāu (or Falawi) village, 150 houses of Kurds. Sheikh Hasan, 30–50 houses of Arabs to NW. by W., on road farther on. Red peak of Marwari Hill, near Dekkeh, about 10 m. NW. by N. Proceed NW. by W.
At 56 min. Sheikh Hasan village mentioned above. 3 small Kurdish villages 3 m. to NE. Marwari Hill about NW. by N. At 1 hr. 6 min., Khanikin lies SE. Imām Beidhā Mahmūd lies 1-1½ m. N. Part of Bāweh Palāu, mentioned above, lies 1½-2 m. N. by W.



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		(108)
	ROUTE 32 a	211
Miles from Khani-		
kin	At 1 hr. 18 min., pass Imām Beidhā Mahmū	id 3 m to "
41	At 1 hr. 24 min., pass second of two date-grov	
$4\frac{1}{2}$	under m. $1\frac{3}{4}$. These date-groves are irrigate	
	from Marwari Hill.	ou of a spring
$5\frac{1}{4}$	At 1 hr. 38 min. Baweh Dagh mound t	o r. of road.
4	Several small Arab villages from W. to S'	
	distances. Tel Mal Quleh 2 m. SW. by V	
	clover, wheat, and barley, irrigated from	
	Hamrin hills visible on l. front from WNV	V. to WSW.
$8\frac{1}{2}$	At 1 hr. 58 min. reach rising ground.	nyoni noole et
9	At 2 hrs. 8 min., top of rising ground. Man 3-3\frac{1}{2} m. N. by W.	twart peak at
91/2	At 2 hrs. 19 m. pass Bankan , Kurdish village	to l. of road.
$10\frac{1}{4}$	At 2 hrs. 30 min. Ghaznah Tepeh, light-col	
4	on r. of road. Hamrīn hills along horizon	
	SW. To WNW. at 2 m. Mahmūd Rosam, s	mall Kurdish
	village. Dekkeh to NW. Marwari peak s	
	N. Khanikin slightly E. to SE. Sangar Car	
	W. along l. side of road between this period	and Dekken,
12	6 ft. wide and 6 in. of water. At 3 hrs. 2 min. reach Dekkeh , just beyond a r	nined village
12	Dekkeh contains 60 houses of Jaf Kurd	
	peak 2 m. to ENE. Beyond Diyāleh River th	
	hills appear from NW. to W. (called Ka	
	W. O. Map, E.T.A., sheet 38: they are t	
	extending too far S.: they do not go far	
	Dekkeh). Zengabād village across the D distant. For 15 min. through thick grow	
	bush with round leaves which vary in	
	a shilling and a half-crown). Then for	
	shingle to the edge of the Diyāleh.	
$13\frac{1}{2}$	At 3 hrs. 22 min. Diyaleh ferry. Marwari pea	k bears ENE.
****	at 3-4 m. To NNE., apparently at 7-	-8 m., upper
	Qara Bulāq, village of 30 houses of Talabā	
7 7 7 7 7	(Sheikh Tayyib's section) at a red hillock:	
	W. bank of Diyāleh. To N. at about 5 m Qara Bulāq village, 50-60 houses of Kurds	
The same	tribe and section.	of the same
diam's	Small raft-ferry (16 skins): it was said in	1910 that no
satist or	other ferries existed either up or down stream	am. Raft in
	April 1910 drifted $\frac{1}{2}$ - $\frac{3}{4}$ m. down stream	and reached
	0 2	



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212	LAND ROUTES
Miles fr Khan	
kin	opposite side at off-take of a canal called Kashawul leading
	towards Zengabād. Width of stream at narrowest, in April 1910, 150 yds. General direction of river N.—S.
	It took 3 hrs. to ferry two travellers over with servants
	and baggage, the raft making more than one journey. Unloaded mules swam by a more direct line. See further
	Route 32 b, m. 25. From landing-place Zengabād lay
	WSW. Ban Sanduq hills from NW. to nearly N. Cross open ground and fields.
16	At 30 min. for riders, or 40 min. for baggage, from landing-
	place, reach Zengabād village. 200 houses of Zengabād Kurds. Small suburb about ¹ / ₄ m. to W. A few Jews.
	Mosque. Gardens of Dā'rat es-Sanīyeh. Irrigation from
	two water-cuts on W. and E. of village. About 1 m. to W., Tepeh Girān, conspicuous mound.
101	Road proceeds NNW., passing crops.
$17\frac{1}{2}$	At 25 min. from Zengabād, Ban Sanduq village, 40 houses of Zengabād Kurds. Shaitapaneh village, 25 houses of
	Zengabād Kurds, W. by S. Low hills to r. of road.
184	Direction to m. 18 ¹ / ₄ , somewhat W. of NW. At 40 min. from Zengabād neck of low hills. Zengabād
	lies SE. Shaitapaneh 2 m. SSW. Marwari peak to E. Just beyond this point on road is a ruined village.
194	At 55 min. from Zengabād, Tazashan village, 30 houses of
20	Zengabād Kurds. Direction to m. 20 NW. At 1 hr. 7 min. from Zengabād, Hājilar village (70 houses
20	of Zengabād Kurds belonging to Majid Pasha of Salāhiyeh)
	is 1 m. distant, a little W. of SSW. Direction to m. 21 ¹ / ₄ a little N. of WNW.
201	At 1 hr. 12 min. from Zengabād pass Kokaz village,
211	30 houses of Zengabād Kurds, to l. of road. At 1 hr. 27 min. from Zengabād, Tepeh Chami hamlet
	(7 houses) $1\frac{1}{2}$ m. SW. by S. Direction to m. $22\frac{1}{2}$ WNW.
221	by N. At 1 hr. 50 min. from Zengabād the tomb of Ibrāhim Samīm
	is 4 m. to SW., Tepeh 'Ali, 40 houses of Zengāneh Kurds, about 3½ m. SW. by S. Arab village of 30 houses 2 m.
	to r. On l. the Hamrin range runs from WNW. to SSE.
24	At 2 hrs. 15 min. from Zengabād, Kushk, ruins and mound, on r. of road. Ibrāhīm Samīm, mentioned above, bears
	SSW. and Tepeh 'Ali S. by W.



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		(109)
	ROUTE 32 a 218	
Miles from Khani-		
kin 24 ¹ / ₄	Cross Kodareh watercourse, dry, about 8 ft. deep and 24 ft.	
214	broad. End of Zengabād territory. Direction to m. 27	
07	NW. by N. At 3 hrs. 9 min. from Zengabād, Zardeh village, 120 houses	
27	of Zengāneh Kurds, lies 1 m. WSW. Mound of Teleshān	
	(or Tel Ishān) about 2 m. to W. (Village of same name	•
	on road ahead.) Eski Kufri several miles WNW. Near	
Blanc and	here, at a place called Salaisheh, there is a garden belonging to Haji Husein, son of Sa'id Ahmad of Kufri	
	The low hills to r. of road are hereabouts called Chalau	
	Khurik (or Chalāo Khurik): to NNE., beyond them other reddish hills called Shirwāneh are visible. Direction	
	to m. $28\frac{1}{4}$ NW.	
28	Cross shingly bed of Zardeh stream, which is here formed	
	by the junction of a stream of sweet water coming from N. with another stream not so sweet from E. Each	
	stream in April was clear, a few feet broad, and quite	
	shallow. The Zardeh is said to run W. for a mile or two	
281	and to be expended in irrigation. At 3 hrs. 32 min. from Zengabād, Teleshān village, 40	
204	houses of Zengāneh Kurds. Direction N. by E. to m. 283	
	Ground hilly.	
$28\frac{3}{4}$	At 3 hrs. 40 min. pass mill of 'Abd el-'Azīz Agha of Qara Tepeh.	
291	At 3 hrs. 52 min., mound by road, from which Salāhiyel	
- There's	(Kufri) bears due N. Tanaishimyeh village (60-70	
	houses of Zengāneh Kurds) 2½ m. to NE. Rāhi Murghel	
	village, 100 houses of Zengāneh Kurds, $3\frac{1}{2}$ m. E. by N. Proceed through low hills, not far from bed of a stream	
011	flowing from Salāhiyeh.	
$31\frac{1}{4}$	At 4 hrs. 29 min. Sercham , temporary harvesters' village was passed in April 1910.	,
	Cross flat land, with some cultivation.	
331/2	At 5 hrs. 9 min. from Zengabād, Salāhiyeh (Kufri).	
120		

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LAND ROUTES

ROUTE 32 b

SALĀHIYEH (KUFRI)—KHANIKIN (40 m.)

Via Kula Su

Authority: -Route report of 1910 (apparently of a journey taken in 1909).

This track is over level ground all the way, and suitable for guns and wheeled transport, though the soft soil would make very bad going after rain or the passage of heavy traffic. The only serious obstacle is the Diyāleh (see m. 25 below). Sheep and goats plentiful, and perhaps some other supplies from villages in the Diyāleh Valley. Water plentiful in the Diyāleh Valley (canals from river). Very good spring grazing. Fuel plentiful. Good camping-ground near the Diyāleh. A few horses might be collected en route.

It is possible that Defteh (m. 27 below) village is the same as

Dekkeh in Route 32 a, m. 12.

Miles from Salāhi- yeh		# K
0	Salāhiyeh. Track leaves Salāhiyeh slightly E. of S. by E. (165°). Cross wadi (apparently the bed of the Kufri	
emp to	(Chechepan) Su is meant).	1
2	Reach rolling downs; cross these.	1300
2 4	Reach plain. Here track runs S., with wadi parallel to it.	
7.	Aleaza village, about 50 houses, on both sides of wadi,	QAS
	which is here about 4 furlongs broad, with 2 streams,	
	each 12 ft. broad, 1 ft. deep.	100
22179740	Track leaves wadi (which bends to E.), and bears slightly S. of SSE. (160°) across sandy desert.	h at le
12	Cross small stream. Track changes to between SE. and SE. by E. (130°).	minity v
16	River to W. Thence continues slightly E. of ESE. (110°).	i be de
19	Grass more abundant. Bear slightly E. of E. by S. (100°).	nisof
21	Bear slightly E. of ESE. (110°).	TOR. I
22	Shrine passed on W.	prims to
23	Kula Su village, 600-700 inhabitants. Other villages in neighbourhood at intervals of a mile or so.	rins prints:
	Bear between NE. and NE. by N. (40°).	11888
25	Diyaleh River. Camping ground for large force on bank.	
	Bed of the river here about $\frac{1}{2}$ m. wide; in spring it is	OF 1
		1



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٢١٥] (٢٣٢/٢٣٤)

		(10)
	ROUTES 32 b, 33	215
Miles from Salāhi-		
27 30 33	filled from bank to bank and unfordable. At two channels run in it, enclosing a large islanthe western channel was only 1 ft. deep and easily crossable; the eastern was about 50 and generally 6 ft. deep, but shallowing to 4 which runs from the southern end of the ismentioned, just N. of another, smaller, is Diyāleh, however, alters considerably with flood, and these details may not hold at present the same constructed at Defteh village. From E. bank of river track continues as before NE. and NE. by N. (40°). Defteh village. Proceed, apparently, between SE. by E. (Authority has here and at man apparently an error for '130°'.) Gāzābād village. In same direction as before Large conspicuous mound. Proceed SE.	nd. In 1909 20 ft. broad,) yds. broad ft. at a ford, sland above- sland. The every spring ent. fore between en SE. and . 36 '230°', to—
36	Direction apparently between SE. and SE. by E. m. 27. Khanikin.	. See above,
	ROUTE 33	
G.	ASR-I-SHĪRĪN—SALĀHIYEH (KUFRI) (55	34 M.?)
	Authority: -Routes in Persia, vol. ii, no. 72.	
authorid dates fr in the track is ravines. previou bridgin	least one stage there seems to be some configuration of the seems to be some configuration of the seems to distances: see under m. 20½ on 1888: the route was apparently traversed and the seems to be very little often ill-defined, and is much intersected by It would be unsuitable for wheeled traffic was preparation and labour. The Diyāleh River g: this, it is stated, could be easily done by	t some time used. The streams and ithout much would need
In 18 in limit		ere available out. Forage



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٢١٦] (٢٢/٢٣٤)

216	LAND ROUTES
Miles from Qasr-i- Shīrīn	
Shīrīn	Qasr-i-Shīrīn. General direction to Merkez W. Leav.
	Qasr-1-Shīrīn and strike across some low, gravelly up
	dulations by a well-defined track, in direction 259
	(W. by S.). Soil, light clay and gravel, growing thin grass mostly burnt up in dry season. For 1 m. out of
-avoda	town, barley and wheat crops (1888). Gradient ascend
	gradually till a few pools and little streams are passed
	in a ravine. Gradient now becomes steeper, ascending low, rounded range of conglomerate hills. Broad, easy
	track over ridge, which can be passed at any point
4	Grass sometimes available in hollows.
hre M	Rounded summit of ridge, alt. 2,020 ft. (a rise of nearly 600 ft. from the start). Cross it skirting a dry, gravelly
19085	ravine to r. Along the summit of the ridge runs the
	Turco-Persian frontier, as settled in 1914. The NW. side of ridge is cut up by several long ravines running towards
	the Diyaleh. Begin easy descent along ridge of a spur
- sheres	valley with dry water-course to l. Wide view over
	Diyaleh Valley, a gently undulating country intervening Short steep descent for 100 yds. from end of spur at
	junction of two valleys. Valley to r. contains gravelly
	bed of stream 150-200 yards wide; stream in valley to
	l. nearly dry in l.w. season. Water disappears in this gravelly soil, but could be found in wells or karez.
	Follow stream bank: easy going over gravel and pebbles.
	Track in 1888 seemed to be hardly ever used. Stream
	contains good clear water. Tall hedges on banks; no trees in sight; some fields of Indian corn close by. Pass
	round masonry tower, some 30 ft. high, on spur to r.
SIS III	This in 1888 was a frontier mark (but see above). A line of these towers runs about NNW. towards Diyaleh
A Kill on	(341°), and between SSW. and S. by W. (197°) towards
	Khanikin. Pass through some low gravelly mounds,
denas s	and emerge into a flat valley 1 m. wide. Well-defined track over light, gravelly soil, well cultivated with good
101	wheat and barley, to
$12\frac{1}{2}$	Merkez village, 80 well-built houses (1888). Alt. 1,045 ft. Population Turkomans, speaking only Turkish. On
2	spur close by strong brick loopholed building, which in
aldella.	The state of strong street toopholed building, which in
etitation engeneral	1888 contained 50 zaptiehs. Water from a karez, from which runs a clear stream 4 ft. wide, 6 in. deep. Soil



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٢١٧] (٢٣٢/٢٦)

Miles from Qasr-i- Shīrīn	ROUTE 33 217	
Qasr-i-		
Qasr-1- Shīrīn		
	1: 14 learn enowing wheat and harley well also	
	a light loam, growing wheat and barley well, also rice.	
(Teneral direction NNW. to Salāhi. Follow easy track	
Saldens 12	over undulating gravelly plain. Cross dry bed of stream,	
Televille.	100-150 yds. wide, running south towards the Diyāleh.	
	Ascend a flat-topped ridge which here crosses the plain: track only very slightly defined. The northern side slopes	
Antideed to	very gradually towards the Diyaleh Valley. Grass on	
Tager sin	hill-slopes poor, but improves nearer the valley. Track	
201	easy and gravelly.	
201/4	Salāhi village, ½ m. to r. of track, surrounded by three large orchards and cultivation.	
	General direction to Sheikh Sā'id on farther side of	
96h 3/10	Diyāleh, N. (Another Sheikh Sā'id is passed just after	
	leaving Salāhi.) With regard to this stage there appears to be some	
	confusion in the route-book, and possibly in the W.O.	
	map, sheet 38. The distance given between Salāhi and	
	Sheikh Sā'id in Routes in Persia, vol. ii, no. 72, is 20 miles.	
	This seems to be too long, unless a very considerable detour is made, of which there is no mention in the	
Marie L	report. On the other hand, Hamr'ala is marked on the	
myin of	map as lying to the S. of Salāhi, whereas the Sheikh	
The state of	Sā'id which is passed near Salāhi is placed about WSW. of Salāhi, between it and the Diyāleh. The Diyāleh	
	River at about 5 m. from Salāhi, on bearing 26° (slightly	
alegae	E. of NNE.), breaks through a ridge in the hills and	
	emerges into the plain.	
	Cross large canal which runs through Salāhi and irrigates country between it and river by numerous minor	
-wisles	cuts. Canal 20 ft. broad and about 2 ft. deep.	
THE STATE OF	On the eastern bank the ground slopes up, and is	1000
	drier and less cultivated. Clay track 15-20 ft. wide, through wheat fields, follows r. bank of canal. Pass	
and the	deep irrigation cut 8 ft. wide and sunk 6-8 ft. below	
	the surface. It is crossed by rough bridge of tree	
100	trunks with fascines and earth: there are several of these little bridges, otherwise the canal would be difficult	
101111	for laden mules. Several mills dotted about the plain,	
na'lio	each with a loopholed watch-tower some 30 ft. high.	
ent o	Pass Hamr'ala village (150 houses, some well-built of	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٢١٨] (٢٢/٢٣٤)

218	LAND ROUTES
218 Miles from Gasr-i- Shirin. 25½ (?)	bricks) surrounded by fruit gardens. Close by is a large ruin mound, containing bricks which in 1888 were being dug out by natives for building purposes. Inhabitants of this valley are Bagilan, half Arab, half Kurd, wearing Arab dress. Extending S. from here is a well-cultivated plain 8–10 m. long, dotted with several villages, each surrounded by an orchard. Another ruin mound 1 m. to r. From Hamr'ala cross plain to NW., approaching the Diyāleh. Soil fertile, irrigated by numerous small canals; narrow track through tall grass and cornfields. Pass Shaki village, 250 houses in 1888, including some good two-storied buildings, but apparently suffering from Hamawand raids; low mud wall breached in several places round village. Good crops of wheat and rice grown in this valley. Rafts constructed here for passage of the river in 1888: none ready-made. On nearing river enter belt of tall hedges and osiers extending to river-bank. Diyāleh River. The river flows in a wide gravelly bed, with several channels. The course taken by the stream varies from year to year, and also the point for crossing. Rafts can only take light loads in high water. Mules and horses have to be swum across. When the river was crossed in 1888 there were broad sedgy flats and creeks on the l. bank, and on the r. low gravel cliffs 25 ft. high, with ruins of small village. The main deep channel was then near r. bank, and the other channels were fordable. Opposite ford the ruins of a small village. Route from r. bank passes low gravelly undulations covered with a little grass. Soil improves, and, later, cultivation (wheat and barley) is to be seen. No cultivation or irrigated ground on r. bank, which rises rapidly to some low undulations on the l. Pass dry gravelly bed of ravine from l. On nearing Sheikh Sā'id cross rich soil, unirrigated, growing good wheat and barley. Easy track between fields. Sheikh Sā'id, 150 mud huts: Kurds. Cultivation in a sort of basin of 3-4 m. radius round village. Plain quite treeless. Water-mill turned by a small irrig



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٢١٩] (٢٢/٢٣٤)

	ROUTE 33 219	(1)
Miles from		
Qasr-i- Shīrīn	stone building. Some 6 m. to NE. a range of low	
	rounded hills, at the foot of which were some ruins and	
	a ziyāret.) From Sheikh Sā'id to Salāhiyeh (Kufri) general direction	
mens his	W. Leave village along a good track over a broad valley	
MINIST THE	sloping gently upwards from river. Good gravelly soil.	
molent.	Pass dry, gravelly bed of stream running into Gök Su. Pass several dry ravines. Plain 6-8 m. wide, perfectly	
3-44	open and bare; gravelly soil would grow good wheat	
35	crops. Reach bank of Gök Su, a large stream flowing into the	
· ster too	Diyāleh. Gravelly bed, 200 yds. wide, with many small channels: good clear water. Ford stream. Good soil	
Si E e	with a little grass on the plain; only ruined village	
million.	visible. Good soil with a little grass. Gradually ascend a low range of hills on r. bank of Gök Su. Turn up	
A POTON	side valley over some low spurs. This range is called	
	Jebel Kushki (Dry Hill) owing to absence of water in ravines. Best line to Salāhiyeh is parallel to ridge, the	
	general direction of which is from NW. by N. to SE. by	
	S.; it is easily passable at any point. No well-defined road, but several small paths. The range is cut up by	
	many gravelly ravines with strata of gypsum cropping	
391	out here and there. Reach crest of ridge (alt. 1,290 ft.): view back over plain	
004	of Gök Su: no village or trees in sight. Descent winds	
	among steep gravelly spurs; no well-defined track; cross several small stream-beds; a little grass in the hollows.	
	Cross stream with little water in wide and stony bed;	
37.75 04	some clear pools. General direction of valley and undulations 216° (between SW. and SW. by S.). Pass	
200	a small stream and valley with some good grass. A few	
the min	ledges of sandstone rock begin to appear at intervals. Soil improves, becoming less gravelly. Some herds of	
Alkon	cattle and sheep seen in 1888; patches of wheat between undulations.	
461	Leave spurs of range and emerge on level cultivated plain	1
To the same	of Chenimassi. Cross several sandstone ledges; white incrustations here and there in the soil; water sweet.	
	Pass Chenimassi village (100 houses) in centre of plain	



220

LAND ROUTES

Miles from Qasr-i-Shīrīn

2 m. to SE. The other side of the plain is bounded by a ridge called Imām Dīvānza, similar to Jebel Kuskhi. (In front of this ridge a ruined village in 1888.) Track follows bed of stream. Wheat and barley grown on plain without irrigation. Continue down plain and cross one branch of the Darkhaneh River, flowing over several small channels in a gravelly bed 150 yds. wide; only a few pools of water in dry season; some melon plantations along bed. (The 'main post road' from Baghdad to Mosul was met near here in 1888. Road described in Route 25 a, m. 107-117 runs on other side of Kufri Su Valley.) Cross main bed of Darkhaneh river, flowing in several channels; bed gravelly, 400 yds. broad. Pass Eski Kufri on low gravelly mounds 2 m. to l. Cross wide bed of Kufri Su (Chechepan). Good wheat and barley crops in the plain. Pass another branch of stream 300 yds. broad. Water in several channels among banks of shingle; most of it led off into irrigation cuts. Salāhiyeh (Kufri).

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553

ROUTE 34 a

SALĀHIYEH (KUFRI)—SULEIMĀNIYEH (88½ M.)

Via Zagirmeh Pass

Authority:—Military Report on Eastern Turkey in Asia, vol. iii. (1904), Route 105. (The account of the Route there given dates from May, 1888.)

It is clear that there is much confusion in the mileage of this route as printed in the *Military Report*, and in two places at least (see under m. $54\frac{1}{4}$ and m. $64\frac{1}{4}$ below), there is difficulty with regard to the times. The total distance in the *Military Report* is brought out to as much as $200\frac{3}{4}$ m. The distances given below are generally calculated at the rate of about $3-3\frac{1}{4}$ m. an hour, but at somewhat slower rates at some difficult places. The times given in the text of the itinerary are based on those given in the *Military Report*. Up to the Tang i-Kalakh they are calculated from Salāhiyeh: beyond that point from Dolan, Rish Olan, and Temar successively.



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		(113)
	ROUTES 33, 34 a	221
wheels. to Route fuel on Pass.	neral account is given of this route. It is r For a note on supplies, &c., in this country, se 34 b. It would appear from the entry und this route is scarce between Salāhiyeh and ack described in <i>Route</i> 34 b, though it goes th	ee Introduction der m. 51 that the Zagirmeh
Khānji part of	and Temar, cannot be certainly identified vehis route. Route 34 b seems to cross the Q of Route 34 a.	with any other
Miles from Salā-		
hiyeh 0	Salāhiyeh (Kufri: alt. 760 ft.). Along between the town and the Kufri Su (Che At 13 min. from start ford river where it hills. Gravelly bed, 200 yds. wide, in s	chepan River). emerges from
	channels. Wind between low gravelly ledges of sandstone. Track at first we gradually becomes less so.	mounds and
2	At 40 min. follow winding track 15 ft. wi stream between two ridges of sandston river \(\frac{1}{4} \) m. to W.; the valley is 300-4	e. Chechepan 400 yds. wide,
8	bordered by a confused mass of sandstone of fruit gardens and hills along it. At 1 hr. pass an orchard 200 yds. to 1. A Several reed huts with patches of wheat a little wallers between the confused mass of sandstone of the san	Alt. here 865 ft.
31/4	little valleys between the undulations. At 1 hr. 6 min. reach stream flowing for Chechepan; continue up its r. bank. Riginal and the continue of the continue	ch soil: several
41/4	level, passable for wheels. At 1 hr. 25 min. (alt. 850 ft.). Emerge on of gravelly undulations. Good grass found in first half of May; elsewhere grass alr	d along streams ready burnt up.
$\begin{matrix} 6 \\ 7\frac{1}{4} \end{matrix}$	Continue over undulating gravelly plateau At 2 hrs. track well defined, but little used. At 2 hrs. 25 min. pass Kūh Murmil village huts) between mounds ½ m. to r. It is	Soil rich clay. (about 100 reed surrounded by
	patches of wheat and barley. Ziyāret about here. Country much cut up by ravi	of Bukh-rasūl ines. Soil light
$16\frac{3}{4}$	clay much waterworn. At 5 hrs. 35 min. stream turns sharp E. in valley bordered by steep earth and gravel	a deep narrow l slopes.



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222	LAND ROUTES
Miles fr	
Salā hiyel	
17	Broad clay track: numerous short ascents and descents
184	over ridges. At 6 hrs. 5 min., alt. 1,500 ft. Easy descent into valley with steep clay sides.
$19\frac{1}{4}$	
20	At 6 hrs. 42 min., steep descent into narrow velley
	bordered by sandstone ledges and slopes of gravel and conglomerate. An easy clay track winding down in
	cuttings in the clay would make this passable for carts
$20\frac{1}{4}$	Valley 200 yds. wide.
204	At 6 hrs. 47 min., ford large stream flowing W. to join the Aq Su or Av-i-Spi. Alt. 1,300 ft. Short ascent with steep zigzags: then reach a rolling plateau. The valley
	of the Aq Su lies ½ m. W., and 2 m. W. is the small village of Gil , near which are sulphur springs. To E. the
	plateau gradually rises to a low flat-topped ridge of sand- stone.
$22\frac{1}{2}$	At 7 hrs. 30 min., alt. 1,670 ft. Gradual descent. Country cut up by small ravines: it presents a curious tumbled
231	appearance as of sea-waves. At 7 hrs. 50 min., alt. 1,450 ft. Steeper descent by a ledge
$23\frac{3}{4}$	At 7 hrs. 55 min., Ibrāhīm Khānji in valley of the Āg Su
	(see Route 34 b, m. 60). 150 houses in 1888. Valley bare, but good grass along river. The place lies in a small
	basin shut in by steep gravel cliffs about 1 m. each way. On hill overlooking village is a ruined mud fort. In 1888
	there was a ruined khan on mound on opposite bank of
241/4	Aq Su, and also a deserted village on that side of river. At 8 hrs. 5 min., ford Aq Su. This was done with difficulty on May 11th, 1888, the river being then swollen by rain,
	80 yds. wide, with rapid current. It is almost dry in summer. (Compare Route 34 b, m. 58.) Alt. at ford
	1,310 ft. Thence proceed along level terrace 200 yds.
	broad above stream. On l. bank are bare earth cliffs 150 to 200 ft. high. Valley \(\frac{1}{4} \) m. wide with a few patches of cultivation.
25	At 8 hrs. 21 min., ford Aq Su to avoid cliff. River here
7	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٢٢٣] (٢٣٢/٢٣٤)

3		(114)	
		ROUTE 34 a 223	
	Miles from Salā-		
8	hiyeh	100 yds. wide, 2 ft. 6 in. deep; rapid current over a pebbly	
0		bottom (May 11th, 1888).	
	$26\frac{1}{4}$	At 8 hrs. 47 min., ruined village of 150 houses (1888).	
		Over small spur and along a rocky ledge at top of a cliff	
	diment.	overhanging l. bank. Dip into river-valley, here 400 yds. wide, bordered by steep ground and earth cliffs cut up in	
3,	pin rail	all directions by ravines. River in a gravelly bed 200 yds.	
у		wide: easy track.	
d	27	At 8 hrs. 59 min., over low spur, and open up another	
n	00	valley 600 yds. wide, half of which is taken up by stream.	
7:	28	At 9 hrs. 17 min., ford 120 yds. wide, 18 in. deep (May). Rapid stream flowing over pebbles and round stones.	
ts.		Dry later in year. Alt. 1,350 ft.	
in		Continue up broad track along r. bank. Valley narrows to	
th	T many	300 yds. Alt. 1,450 ft.	
ey	$28\frac{1}{4}$	At 9 hrs. 24 min., river turns E. between steep ledges of	
ge	-	rock with vertical strata. Follow a ravine 80 yds. wide with small stream.	
he	281	Steep ascent (gradient 1 in 6 to 1 in 8) along a ledge 2 ft.	
d-	2	wide for 300 yds. at the top. Short zigzags among sand-	
ry		stone ledges. A little clearing would make it passable	
ed	001	for carts.	
	$29\frac{1}{2}$	At 9 hrs. 49 min., level of plateau cut up by ravines in all	BUILDS.
ge	· resident of	directions (alt. apparently 1,605 ft.). Soil is a rich clay with good grass on the undulations. Numerous small	
ts. Su		springs in the ravines, their position marked by clumps	
re,	a describit	of oleanders.	
all	30	At 9 hrs. 57 min., wind along the watershed by an easy	
y.	The state of the s	track, avoiding the descent into the deep ravine on either hand.	
88 of	31	At 10 hrs. 14 min., descend into small valley by ledge worn	
of		in hill-side.	
ty	32	At 10 hrs. 37 min., round shoulder of flat-topped sandstone	
1,		ridge to r. A good clay track, through low gravelly hills	
in J	321	and ravines. At 10 hrs. 42 min., fewer ravines. Open up a wide plain	
d s.	4	called Chiazarin , bounded by the Qara Dāgh.	
is. Is	$32\frac{1}{2}$	At 10 hrs. 49 min., alt. 1,530 ft. Descend into narrow deep	
68		valley of the Chiazarin River which joins the Aq Su.	
		Wind down a narrow ledge in steep slope. A cart track	
9		might be improvised here. Drop 90 ft. in 3 min.	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٢٢٤] (٣٣/٢٣٣)

224	LAND ROUTES
Miles from	
Salā- hiyeh	
33½	At 11 hrs. 8 min., ford the Chiazarin River, 20 yds. wid and 18 in. deep in May, running SE. in a narrow gravell channel. Gradual ascent out of valley, passing some ledges of sand
	stone to 1.
$34\frac{1}{4}$ $37\frac{1}{4}$	At 11 hrs. 22 min., over plateau nearly level. Alt. 1,560 ft At 12 hrs. 22 min., cross bed of stream which in May was found almost dry, but with occasional pools.
37½	Gradual ascent towards gap in ridge. At 12 hrs. 29 min., pass large artificial mound called Tepel Gowāri at the entrance of the gap. Extensive ruing
.editole 1	to W.
-	Through gap in small ridge 300 yds. wide with steep sloping sides of hard stone: the strata nearly vertical A small stream comes through gap. Alt. apparently
	1,785 ft.
$38\frac{1}{4}$	At 12 hrs. 46 min., descend into valley of stream. Track stony in places. To NE. a succession of ridges called
	the Hatla Dāgh. Short steep ascent. Pass numerous springs. Track a narrow ledge among slabs of rock An easier track higher up the valley.
$39\frac{3}{4}$	At 12 hrs. 56 min., round foot of grassy mound on which are the ruins of a stone fort named Qal'ahjaq, a good position
$40\frac{3}{4}$	for barring the entrance of the pass. Alt. 1,985 ft. At 13 hrs. 14 min., ascend grassy plateau. Rocky ledges
411	crop out at intervals. At 13 hrs. 31 min., alt. 2,440 ft. Along flat ridge between two grassy villages. Good track nearly level.
4414	About 14 hrs. 25 min., alt. 2,605 ft. Open out a wide undulating upland about 4 m. across. Rich soil with
20 W W	fine grass (May). A good site for a large camp for troops. Grass burnt up later in year.
$45\frac{1}{4}$	At about 14 hrs, 44 min., summit of plateau. Ziyāret of Gök Tepeh to l. on mound with a few trees (alt. 2,715 ft.) Descend grassy ravine. Track a ledge 10-12 ft. wide
461/4	stony in places. At 15 hrs. 4 min., alt. 2,525 ft. Track in rough stony
17	bed of stream: sharp descent (12° slope).
47	At 15 hrs. 21 min., alt. 2,065 ft. Track in deep narrow valley among stones and boulders. Steep ascent to Gök Tepeh village.



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		(iis)
	ROUTE 34 a	225
Miles from		
Salā- hiyeh		, , , ,
481/4	At 15 hrs. 46 min., Gök Tepeh, 50 houses of	overlooking
	the ravine (alt. 2,400 ft.). Some cultivation	hear water
	from small springs on the plateau, and in grass, plentiful in May.	the valley
	Cross plateau by an easy track gradually ascendi	ing. Skirt
	deep ravine to l., with a stream.	
51	At 16 hrs. 39 min., alt. 2,690 ft. Beginning of	
	Pass. Cross small stream; a few low trees a	
Spirit Line	the first since Salāhiyeh. Up bed of stream	n, crossing
	several times; ground rather stony; sandstovalley 150 yds. wide with easy shelving side	
Tay III	by wooded spurs. Several small springs.	
513	At 16 hrs. 56 min., steep ascent for 300 yds. up	a spur by
	short zigzags. It could be made practicable	for carts if
F02	longer zigzags were cut.	no omoduel
$52\frac{3}{4}$	At 17 hrs. 21 min., alt. 2,935 ft. Ascent more over loose stones. Some oaks, 12-18 in. in	diameter.
	and scrub underwood.	dittilicory
541(?)	At 17 hrs. 53 min., alt. 3,720 ft. A rough track	joins from
417	Gök Tepeh Ziyāret. Follow a 12 ft. ledge,	stony but
*	easy, winding through oaks and hawthorns. D	eep narrow
	ravine to 1. (The authority followed makes under 8.32 p.m., and the next entry under	8 30 p.m.:
	the times and distances here given assume t	that '8.32'
	should read '8.22', but this is obviously quite	uncertain.)
$54\frac{1}{2}$	At 18 hrs. 1 min., alt. 3,825 ft. Zigzag up a	mong loose
	stones and boulders: by clearing the bould	lers a cart
543	track could be made. At 18 hrs. 6 min. ascent rather easier, al	ong broad
$54\frac{3}{4}$	12–15 ft. road to summit.	ong wrong
$55\frac{1}{2}$	At 18 hrs. 21 min., top of pass (alt. 4,430 ft.). Reach
	a deep gap in the rocky summit of range b	ordered by
	crags. Width about 300 yds. Remains of	a wall and
	casemated gateway drawn across summit. almost choked up in 1888. Track through v	vide breach
- June 1164	in wall. The pass is easily defensible as the	e crags on
No. of Contrast	either side are impassable. In 1888 it was	a favourite
- 39.00	resort of Hamawand robbers. A wide vie	
EF3	Kirkuk.	05 20 64
$55\frac{3}{4}$	At 18 hrs. 27 min., alt. 4,255 ft. Follow a ledg	
	wide over shingle and gravel, and at unifor	in stope of
MES. III	P	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٢٢٦] (٣٣/٢٣٥)

22	6 LAND ROUTES
	es from
	Salā- iyeh
	1 in 14. The slopes are craggy with stunted oaks a
	shrubs, and to r. is a torrent among rocks. At 18 hrs. 51 min., alt. 3,620 ft. Sharp turn to E.,
	zagging down a stony spur through low oaks.
	$57\frac{1}{4}$ At 19 hrs. 1 min. reach foot of slope (alt. 3,600 f
	Then follow a fairly level but stony track along a torre
	crossing several times in a narrow bed among round stones and boulders.
6	41/4 (?) At 22 hrs. 48 min. (?), narrow defile called Tang
	Kalakh. The strata are vertical, and in the gorge
	ledges of rock overhang the road to a height of 15 200 ft. The entrance is 8 ft. wide, through last
	boulders in a stream-bed, and for 50 yds. is pay
	Then follows a single 12 ft. arch with a paved roadw
	8 ft. wide. 20 yds. farther the stream makes a sha
	turn under the base of the cliff, and there is anoth bridge similar to the first. The road could be render
	impassable by the destruction of either of these bridge
	(called the Pul-i-Kalakh). Both arches were in a b
	state of repair in 1888. The arch of the second w
	supplemented by a few sticks and fascines. (There is much confusion here in the times and distance)
	as printed in the Military Report on E. T. A., loc. of
	The distance given above between the top of t
	Zagirmeh Pass and the Tang-i-Kalakh (8\frac{3}{4} m.) is the
	given in the <i>Military Report</i> . The time at which t Tang-i-Kalakh was reached is given as 1.8 a.m. T
	next entry is under 10.18 a.m. A halt was apparent
	made at or near the Tang-i-Kalakh, but the time
	which the march was resumed is not stated. The distance from the Tang-i-Kalakh to Temar given in the
	Military Report (17½ m.) does not agree with the W.O. may
	After passing the Tang-i-Kalakh, alt. 2,960 ft., emer
	into a rolling country crossed by several low woods spurs from the Qara Dāgh, the main ridges of which l
	to SE. The nearest slope of the range has a rich so
	with vineyards. Rice in the valleys. Grass alor
	stream. Track passes through an open country of und
6	lating ridges. Oaks, 2 ft. $-2\frac{1}{2}$ ft. in diameter. Pass Dolan , 30 huts, $\frac{1}{4}$ m. to W. in a ravine. This place seem
10	to be about $\frac{3}{4}$ m. beyond the end of the Tang-i-Kalakh.



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ " [٢٢٧] (٣٣/٢٣٦)

		(IIP)
	ROUTE 34 a	227
Miles from Salā-		
hiyeh	Alt 9 700 ft Chara amall atmosm 19 min of	ton magging
$66\frac{1}{4}$	Alt. 2,780 ft. Cross small stream, 13 min. af Dolan. It flows to the Diyaleh. Over a	
	descend into another valley running W.	ridge and
	(This is said to be the watershed between the	Āq Su and
	the Diyaleh; but the map (W. O., sheet 36) de	
	this out.)	
and the same	Rice-fields.	N
$67\frac{1}{2}$	At 41 min. after passing Dolan, alt. 2,750 ft.	
	small springs. Follow a 20 ft. gravelly track valley ½ m. wide. Few trees here.	up a grassy
691	At 1 hr. 13 min. after passing Dolan, cross low	spur. Alt.
4	2,960 ft.	
$70\frac{1}{2}$	Valley narrows towards summit of ridge. Eas	y gradient.
	Alt. 3,450 ft.	
	Descend broad track following spur with ravin side. A few zigzags would make this	
	guns.	easy 101
$70\frac{3}{4}$	Rish Olan at foot of the slope 1 m. to NE.	This place
4	is given as 1 hr. 48 min. after passing I	Polan. In
	1888 the village consisted of 40 flat-roofed	
	surrounded by a few trees, orchards, and	
	In spring the grass grows thick on the re houses, so that a village is scarcely distinguis	
	the plain around.	nable from
	Along broad clay track in a well-wooded vall-	ey, 3-4 m.
	wide, cultivated with barley and wheat. Then	by narrow
701	track through orchards and hedgerows to	100
$72\frac{1}{2}$	Temar (see Route 34 b, m. 22), 30 min. aft Rish Olan.	er passing
	Across valley through wheat-fields, and then o	ver several
	low spurs, beginning ascent of Gilzerda Dā	
Heat is	track over gravel and clay.	
73	At 10 min. from Temar, several ravines wit	
	Track narrow in places, the soil being washe	
	the rains. The lower spurs of the Gilzerda covered with brushwood. Steep ascents an	
	among ravines.	a descents
741/2	At 32 min. from Temar, gradual ascent of Gilzerd	a Dāgh by
	a 20 ft. gravelly track up the side of a spur.	Skirt deep
	valley 400 yds. to r. The slopes are rounded,	with some
	rock at intervals. Alt. about here 3,050 ft.	
	Р 2	
	and the second of the second o	

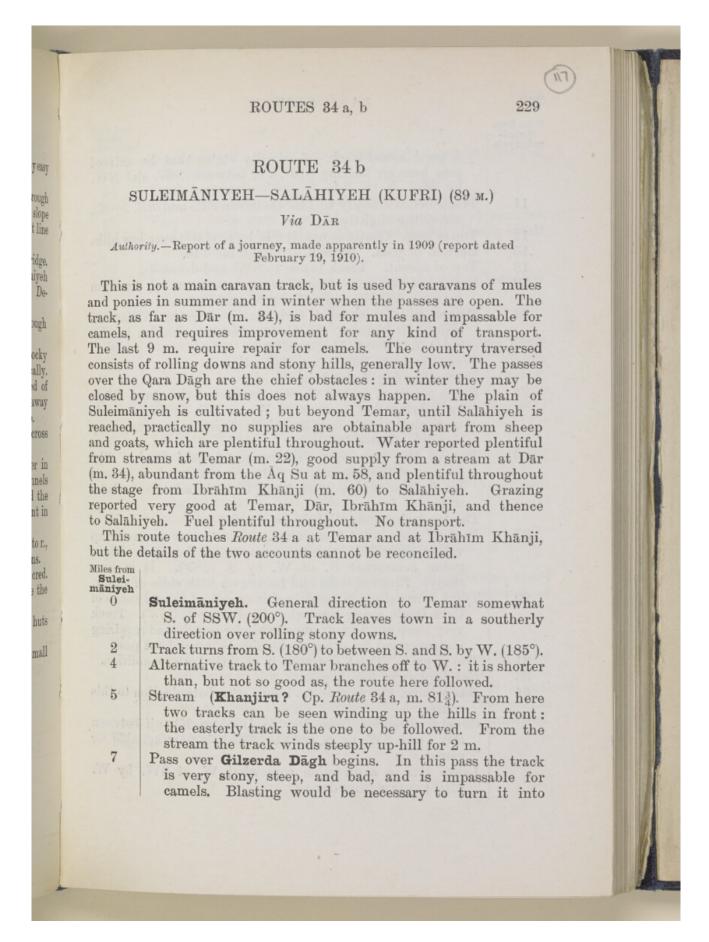


"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٢٢٨] (٣٣/٢٣٧)

228	LAND ROUTES
Miles from	
Salā- hiyeh	
$74\frac{1}{2}$	At 43 min. from Temar bend round head of ravine by ear
	10 h. ledge: portions of it are paved.
$75\frac{3}{4}$	At 1 hr. 8 min. from Temar, alt. 3,670 ft. Through
	a dip in the upper part of the range. Along steen along
	with craggy ravine to l. A foot-path takes a direct lin from Temar and avoids bend.
76	At 1 hr. 15 min. from Temar, rounded summit of rocky ridg
	Road bifurcates, one branch going direct to Suleimāniye
	by Gilzerda village on a steep rocky slope in front. D
	scend diagonally, bending SE.
$76\frac{1}{4}$	Along a ledge 12-15 ft. broad, stony in places, through
761	low shrubs and brushwood. Easy gradient.
$76\frac{1}{2}$	Zaz , 1 hr. 26 min. from Temar: 30 houses in a rock ravine $1\frac{1}{2}$ m. to l. The strata crop out almost verticall
77	Alt. 3,500 ft. Steep stony descent following dry bed
703-0	stream. A cart-track could be made by clearing awa
	loose stones. Portions of paved road here and there
773/4	At 1 hr. 56 min., alt. 3,090 ft. Track now easy acros
013	plain.
813/4	At 3 hrs. 15 min. from Temar cross Khanjiru River
	a gravelly bed 300-400 yds. wide. Irrigation channe
	channel 40 vds. wide. 12-2 ft. deep with rapid current
	middle of May. Shelving banks.
85	At 3 hrs. 53 min. from Temar pass Chenimassir 1 m. tor
OFF	40 huts, by a small stream, among grassy undulations.
002	Three large mulhermy trees and to be sacre
	plain is treeless
861/4	At 4 hrs. 34 min. from Temar pass Balka 30 hu
	$\frac{1}{4}$ m. to 1.
873	No gardens or outskirts to Suleimāniyeh. Cross sma
- 4	0.0000000000000000000000000000000000000
	stream coming from the town in a gravelly bed. Suleimāniyeh, $5\frac{1}{4}$ hrs. from Temar.
85 85 ¹ / ₂	water a fringe of rice-fields on either bank. Force channel 40 yds. wide, 1½-2 ft. deep with rapid current middle of May. Shelving banks. At 3 hrs. 53 min. from Temar pass Chenimassir ¼ m. 40 huts, by a small stream, among grassy undulation Pass large spring in which fish are said to be sa Three large mulberry trees overhang it: otherwise plain is treeless. At 4 hrs. 34 min. from Temar pass Balka, 30 ¼ m. to 1. No gardens or outskirts to Suleimāniyeh. Cross s



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٢٢٩] (٣٣/٢٣٨)





"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٣٠٠] (٣٣٢/٢٣٩)

	230 LAND ROUTES	
	Miles from	
	Sulei- māniyeh	
	a good camel-track. Authority states that he enter	
	pass here on bearing 310°, i. e. between NW. and N	W.
	11 Track bends sharply to 140° (between SE. and SE. by ascending slightly.	S.),
	Top of pass. Continue nearly SE. by E. (120°) over low h	
	Bottom of pass. Stream. Ascend for 3 m.	IIIs.
	18 Top of ascent. Track bends to SW. and descends.	
	20 Bottom of descent. Ascend steep parrow velley dives	
	The state of the s	tion
	between WSW. and SW. by W. (245°). Temar village, about 4 furlangs E. of track Village.	
	o , and a control of the control of	e of
	about 150 houses. No khan. See Introduction to	this
	route, and Route 34 a, m. $72\frac{1}{2}$.	
	From Temar to Dar, general direction S.	
	Descend, going S. for 2 m.	
	Begin ascent of first of the two ranges of the Qara D	āgh
	on bearing 240° (somewhat W. of SW. by W.) tows	rds
	large cleft visible in hills due S. Track very stony, st	eep
	through stunted trees.	
	26 Top of the pass over first range of Qara Dagh.	The
	passing of the gap is easy. There is a stream here cros	sed
	by a stone bridge 20 ft. long, 10 ft. broad, 10 ft. ab	ove
	Angeld Fan water.	
	The track descends slightly for a mile.	
	27 Foot of pass over first range. Track now proceeds	un
HERRY	valley separating the two ranges of the Qara Da	oh.
	going somewhat N. of W. by N. (285°). It is h	ere
	stony. Stunted trees and bushes on both sides of val	lev
	29 Track turns sharp S., and begins ascent of second range	of.
	Qara Dāgh, going somewhat E. of S. by E. (175°). Tr	ook
	very steep and stony: impassable for camels and requir	ina
	improvement for other pack-animals throughout pass.	mg
	Top of pass. Track descends in slightly better condition	n
	Reach plain at foot of pass.	11.
	34 Dar village, 200 houses, no khan. See Introduction to t	hia
	Ponto	ms
	Consul direction from Deat II als III - II	002
	SW and SW by S (220°) Treat is now switchle	for
	SW. and SW. by S. (220°). Track is now suitable camels.	ior
		337
	Leave Dar in a direction somewhat W. of SW. by	VV.
	(240°) over rolling downs.	
t		
THE STREET		



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٣٦] (٢٣٢، ٣١٠)

	(118)
	ROUTE 34 b 231
Miles from	
Sulei- māniyeh	a T / 1 1:11 through which the treek is
41	Track turns S. Enter low hills through which the track is
	very stony.
44	Track bears somewhat W. of S. by W. (195°). Track bears between SW. and SW. by S. (220°).
47	View of large wadi at m. 51. It presents the appearance
49	of a large amphitheatre with perpendicular sides, a small
	valley running down into it.
50	Track bears S.
51	Large wadi, dry in l.w. season except for a small stream.
militar	It cannot be seen from S.
	Track proceeds between SW. and SW. by S. (220°).
53	Track bears between SW. by S. and SSW. (210°).
58	Cross Aq Su: crossing easy in l.w. season. Compare Route
	34 a, m. 24½. Depth here not more than 2 ft., breadth 50 yds. in l.w. Natives report that the stream here is
	always fordable even in flood.
	Track now bears between SW. and SW. by S. (220°)
	running parallel with river.
60	Ibrāhīm Khānji. See Route 34 a, m. 23\frac{3}{4}.
	General direction to Salāhiyeh between SW. and SW. by
	S. (220°): track passable for camels.
	Track bears between SW. and SW. by S. (220°): crosses
0.4	Aq Su twice in first mile.
61	Track bears about S. by W. (190°).
63 66	Pass shrine and graveyard. Enter low hills. Cross stream. Continue bearing somewhat S. of SSW.
00	(200°).
68	A branch track (apparently leading to Qasr-i-Shīrīn) turns
	off to SE. The ordinary route bends somewhat S. of
	SSE. (160°).
70	Track bears about S. by W. (190°).
73	River to W. of road.
77	Track bends to between SW. and SW. by S. (220°) and
90	continues in this general direction to Salāhiyeh.
80	Track enters low hills and becomes very stony. It is still just passable, though difficult, for camels. This section
	would need improvement for continued camel transport.
89	Salāhiyeh (Kufri).

"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ " [٢٣٢] (٢٣٢/٢٤١)

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LAND ROUTES

ROUTE 35

SULEIMANIYEH-KIRMANSHAH (174 m.)

Authorities:—Routes in Persia, vol. ii, Route 77 (from a report of 1886); Corrections to vol. ii, 1912, 77; Soane, Through Mesopotamia and Kurdistan (journey of 1908-9).

This has been reported as the best and most natural approach from the Central Persian plateau to Turkey in Asia, though preparation would be required before the road could be made passable for all arms (1886). Beyond the River Sirvan (†m. 70) the route is practically only a mule-track, and in some places narrows down to 2 ft. in width. The Sirvan River and the Qara Su near Kirmanshah when in flood present the only serious obstacles. Movements in the mountains would be somewhat hampered by snow in winter. Between Halebjeh and Sirvan the construction of a cart-road would be difficult, as hill-cutting would be necessary for a few miles (1886).

The snow in winter is nowhere very severe and the summer heat is not excessive.

Large flocks of sheep and goats and herds of cattle are met with on most of the stages. Cultivation is not very extensive, but fruit of all kinds is plentiful. Luxuriant pasture is to be found in most of the valleys, but the supply of grain is limited. Water from streams is plentiful throughout.

A sort of low oak scrub which might supply fuel grows on the hills in many of the stages. Near Mohun (m. 25) and Pavar (m. 97) is much liquorice.

Numbers of donkeys can be obtained at various places for transport. These animals will carry three-fifths of a mule-load at $2\frac{1}{2}$ m. an hour.

Miles from Suleimāniyeh

The road from **Suleimāniyeh** keeps at first close to the foot of the hills on the l., with considerable undulations. The surface is generally firm; width about 18 ft. General direction to Mohun SE. Later the valley is 6-7 m. broad, with abundant wheat, barley, and grass; the hills on either side are 1,000-1,500 ft. above the valley.

Some of the steeper gradients into the ravines would require to be improved for wheeled traffic.



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٣٣٣] (٢ ٢/٢٣٤)

	(19)	
	ROUTE 35 283	
Miles from		
Sulei- māniyeh		
17	Valley here 10–12 m. broad, mostly covered with grass.	
22	The hills begin to recede to the N.	
25	Mohun village. The valley here is about 6 m. wide, with	
	excellent pasture. The neighbourhood is a favourite camping-ground of nomads.	
	Numerous mounds indicating former settlements.	
	General direction of track to Halebjeh SE.	
	The track winds over the flat towards the hills on the	
	S., crossing many streams flowing in deep channels	
	between steep banks of clay. Liquorice root, grown here for firewood, is plentiful.	
37	Two streams, banks flush with the plain. One of these	
The signature	streams is 100 ft. wide and 3 ft. deep, the other 40 ft.	
10	wide and $2\frac{1}{2}$ ft. deep.	
40	The valley here is about 15 m. broad, and in the high-water	
	season swampy in places. Pasture luxuriant; numerous nomad encampments and	
	villages with large flocks of sheep and herds of cattle.	
	A good many horses are to be seen.	
.45	Halebjeh, small town among gardens, which has developed	
	greatly in recent years. Bazaar. Head-quarters of the	
	Jaf Kurds. Climate hot in May; some snow in winter.	
	Route to Penjevin (40 m.), very bad from Zangisar (m. 25). From Halebjeh to Nausūd (m. 68 below) the general	
	direction of the track is E., width 10-15 ft., leading	
	across the head of the valley through which it has	
The same sa	hitherto run, and over foot-hills.	
	After some miles the road narrows to 6 ft., ascending	
50-1?	a side valley by a good mule-track. Head of this side valley. Alt. 3,400 ft. Gradual ascent	
	for some distance, after which the track becomes steeper	
	and more undulating.	
57	Summit. Oak-scrub.	
	On either side are rolling, undulating hills and broad,	
The same	deep valleys. The track runs high up along the sides of the bills which	
	The track runs high up along the sides of the hills which border the r. bank of the Sirvan. Soil a gravelly clay.	
59 .	Alt. 5,100 ft. near Bulkhah Jura. Plantations of walnut	
- In model	and mulberry fill the valley. Timber (in 1886), 18–24 in.	
60	in diameter, 30–40 ft. high.	
00	Alt. 4,650 ft.	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٣٤] (٣٢/٢٣٤)

62 ? A 65 T	he track crosses the Tavala stream. or 1,000 yds. the track is in the form of steps. ath winds up the side of the valley, gradually narrowing to 4 ft.
61 Ti Fo Pa	or 1,000 yds. the track is in the form of steps. ath winds up the side of the valley, gradually narrowing to 4 ft.
61 THE FOR PARTIES A. 62 ? A. 65 THE FOR PARTIES A.	or 1,000 yds. the track is in the form of steps. ath winds up the side of the valley, gradually narrowing to 4 ft.
62 ? A 65 T	ath winds up the side of the valley, gradually narrowing to 4 ft.
62 ? A 65 T	to 4 ft.
65 T	
65 T	
	lt. 4,900 ft. Track descends at first gradually, then more steeply, winding with deep loops to the l.
68 N	he track ascends the Nausūd spur.
	ausūd, large village. Summer climate healthy and cool;
P. Control of the con	much snow in winter.
F	rom Nausūd the track crosses huge ravines, 2,000-
	3,000 ft. deep, with rounded slopes, affording good grazing for sheep. Then across the Sirvan River, here
	50 yds. wide and very rapid. Only the centre arch of
	the bridge was standing in 1886. Approaches difficult.
M	any villages are passed. The track is now only 2-4 ft.
	wide.
0.0	eneral direction to Dishar SE.
	ishar village, 150 houses.
T	rack well made, ascending valley and crossing stream
97 P	everal times. General direction ESE. Pavar village, 300 houses. About 2,000 sheep.
	Here a branch route leads to Marivan. It is much used as part of
	route between Kirmanshah and Marivan. Water is generally
Marine Marine In	available from villages and streams. Distances not reliable.
	es from
Pa	O Proceed up valley from Pavar, deflecting before the spur S.
	of Avrūmān is passed, and then along banks of Sirvan
	River. No particular difficulty on the road as far as Durud village, at the junction of the Ohang and the Sirvan.
The second second	Beyond Durud the Sirvan is forded and the road is
THE COUNTY OF THE PARTY OF THE	undulating, one or two necks offering some difficulty.
	38? A village in the Avrūmān district. Leave Sirvan Valley in NNW. direction across lower Avrū-
	mān Hills.
	50? Marivān. See Route 36.
WILLIAM TO THE PARTY OF THE PAR	deneral direction for over 20 m. now SSE.
2	on this stretch some swampy valleys occur. The track is at first up over the head of a gradually narrowing
	valley. At the head of this valley is the Mīl-i-Palangān
	Pass, which is blocked with snow in winter. There is
	a lower road by Juanrud. The track then crosses undu-
	lating plateau with some sharp ascents and descents.
+	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٣٥٥] (١٩٢/٢٤٤)

	(120)
	ROUTE 35 235
Miles from	
Sulei- māniyeh	as a transfer binames over in the bill side people of
121	Mar-i-Kharvār, bivouac cave in the hill-side, capable of holding about 30 men and 30 animals.
Valley	The track now ascends a valley by a good road, 10 ft.
	wide. An undulating plateau with several villages near
	and a good many cattle is then crossed, after which the
	track descends to the Qara Su.
phon ,	General direction to Agha Hasan SE. Shortly before reaching Ruvānsar the route from Qasr-i-
	Shīrīn to Senna is crossed, at or near Kāni Khadrān
1000	(see Routes in Persia, vol. ii, 73).
139	Ruvānsar village, 100 poor huts, near the river, which about here is 10 ft. wide, 2½ ft. deep, with current
	3 m.p.h.
	From here alternative roads lead to Kirmanshah:—
	(i) Westerly route via Sadikābād, Shalīābād, Patīābād, and
	Dustavand (about 48 m.). This route runs close beside the main road, and is said to touch the latter about 8 m.
	beyond Sadikābād. Road passable for all arms except at
	two or three points; but in 1897 it was reported inferior for troops to the main road. A trestle-bridge or cutting
	for guns would be needed at the Ab-i-Mark (about m. 22),
	the banks of the Lilufar stream (m. 42) need easing for guns, and small parts of the road between Patīābād (m. 28)
	and Dustavand (m. 43½) are liable to flood. Supplies on
	the whole good; water plentiful; grazing good after Shalīābād (about 15 m.); little or no fuel. See Routes in
	Persia, vol. ii, 75. (ii) Via Khaglistan. This is a détour to E. (about 54-66 m.
	according to the season), following route (iii) below for
	about 16 m. and branching off to S. a few miles from Kamara (Kamaran). Beyond that point it is a camel road
	which could with slight improvements be made passable
	for artillery, but a détour ESE. has to be made near Kir- manshah in winter and spring when the Qara Su is
	unfordable. Good water throughout; few supplies, little
	fuel and forage. See Routes in Persia, vol. ii, 78. (iii) Via Bilavar Valley and Tang-i-Kinishk; a long détour to E.
	(75 m.). Fair track, only in parts passable for all arms; no great difficulties in road construction. Water plentiful.
	Supplies and fuel generally very scarce; grazing good. See
	Routes in Persia, vol. ii, 76.
	The valley is broad and rather swampy, and the road
birtot a	runs across it in a general SE. direction, at first through
and the	scattered villages and then along hard ground on the
	hill-sides. Cultivation along the river; elsewhere grass.



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٣٣٦] (٥٤٣٢/٢٤٥)

236	LAND ROUTES
Miles from Suleimāniyeh 143 1634 165	Agha Hasan, 50 houses. Large herds of sheep and catt. General direction of track still SE. over clay soil. Valle 6-15 m. broad. Numerous villages along the river, which varies breadth from 100-200 ft., with clay banks 3-18 ft. hig The road is not well defined and is swampy in parts. Route from Sālārābad, &c., joins (see Route 28 a, und m. 201½). Gurabun village, 108 houses. The track now is broad and muddy, over fields. The Qa Su is crossed; it is fordable, except in flood. Kirmanshah. (See Gazetteer of Persia, vol. ii.)
In par require of all arms. Crops are no of the prese near Bar former of whole plo The of in the ne Consid the Qal'a River (m been rep An alt	nly local means of transport are the donkeys to be foun eighbourhood of Suleimāniyeh. Ierable labour would be required to improve the road oven the Kal Ya'qūb (beyond Barudar, m. 114), and the Gerdila n. 73) would also be a serious obstacle unless the bridge has



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٢٣٧] (٢٤٦/٢٣٤)

		(121)
	ROUTES 35, 36 a 28	37
Miles from		
māniyeh	Sulaimanimah The treet was consulty NE at first and	
0	Suleimāniyeh. The track runs generally NE. at first over easy cultivated ground.	er
3	Track enters a ravine, and ascends steeply for about	at
	1 m.	
$4\frac{1}{2}$	Crest of Giuzeh (? Azmir) Hills, alt. 5,250 ft. The W. slope of the hills are hare the F slopes severed with sale severe	
	of the hills are bare, the E. slopes covered with oak-scru The track now descends a steep winding path into the	0.
	Harrik Chai Valley. (This name was not recognized	in
0	1912.)	
$\frac{6}{7\frac{1}{2}}$	Alt. 4,150 ft. Descent becomes less steep. Ruins. Track gradually descends a small glen, into	9
. 2	ravine at a steep gradient. Ploughland and vineyard	ds
	on the sides of the valley. Steep ascent.	
$\frac{9}{12\frac{1}{2}}$	Steep ascent ends. Country beyond this point becomes oper Alt. 3,900 ft. The Harrik Chai Valley is left. Trac	
122	Alt. 3,900 ft. The Harrik Chai Valley is left. Trace descends straight for $\frac{1}{2}$ m.	3K
13	Country becomes wilder and rougher. Cliffs overhang the	ne
16	road for some miles.	
10	Stream and water-mills. Some villages and cultivation Some distance farther on a ford over the Tankabu	n.
	River, just above a mill-dam, is reached; alt. 3,150	ft.
	Track then follows the stream for about $\frac{1}{2}$ m. Wid	th
	of river here 100 yards. Track then leaves the river running through some cultivation and over a spur, are	or,
	then along the course of a brook for about 1 m.	10
21	Mama Kulan, small village, 40 huts and a kind of khan.	
	General direction to Penjevin SE. The track now ascends a ravine.	
$22\frac{1}{2}$	Saddle of hill, alt. 4,850 ft. Mama Kulan disappears from	m
94	view. Track winds down and across a ravine.	
24	Track runs along ridge for about 1 m. Oak woods ar	nd
	deep valleys on both sides. Bimānsū River to N Kasha Mt. on S. Large partly cultivated valleys on N	I.,
05	with wooded mountains beyond.	,
25	Alt. 4,700 ft. Track gradually descends hill.	
	After some distance the village of Diyyeh in a large valle to l. is passed, in the neighbourhood of which a trace	ey
26	appears to branch off to Serambal on the N.	
28	Ground becomes less open. Track gradually descend	ds
	a small ravine with thick copse on either side. Tre	es
	here thoroughly English—oak, hawthorn, ash, wild ros	e.



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٣٨٨] (٢٣٨/٢٣٤)

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Numbers of common wood-pigeons. Track then emerged on to open, cultivated, undulating ground. Track crosses small stream called Mashkal or Yahār (apparently a tributary of the Bimānsū), flowing due between high but not very steep wooded mountains, with a few villages on the slopes in the distance. Track ascends gently. Southern route from Suleimāniyeh by 'Alāweh here jointhe present track. Ground shortly after becomes lest open and cultivated. Some small villages high upen mountains to N. Track runs high up slopes on W. side of Bimānsū vall to alt. 5,200 ft. Then comes the steepest descent the road, to a level of 4,550 ft. Small huts of Zeroga Track then crosses a ravine, and ascends for about 700. Summit of ascent. Path now indifferent, winding alow wooded slopes on l. side of Bimānsū gorge. A bold, rocky, isolated crag, with a ruined fort opposite village called Hāsilīn, 50 huts. Track emerges from the mountains, skirting a low range hills on the r. Some distance on Ahmad Kulvān village is passed of the r. Alternative route (Route 36 b) apparently joins the preser route here. The track skirts a low range of hills on the r. Alternative route (Route 36 b) apparently joins the preser route here. The track skirts a low range of hills on the r. Some distance on Ahmad Kulvān village is passed of the r. Alternative route (Route 36 b) apparently joins the preser route here. The track skirts a low range of hills on the r. Some distance on Bainir (2). Binavasuta village of 200 houses. General direction of trace now E. to Kānimiran. Route to Halebjeh: see p. 23. Binavasuta village to r. Rayeva village, on the Persian side, I m. to r. Track crosses the plain of Bihif (2). Kānimiran village. Kalan village. Kalan village. Cal'ah Merivan, substantial stone fort, about 300 ydesquare, with Persian garrison. Good timber and fru		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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River Binavasuta and Turco-Persian frontier. Bayeva village, on the Persian side, 1 m. to r. Track crosses the plain of Bihif (?). Kānimiran village. Track bears SSE. Assadābād village. The track then skirts the E. shore Lake Zeribar. Marshy ground. Siv Sufleh village. Kulan village. Gal'ah Merivan, substantial stone fort, about 300 yd square, with Persian garrison. Good timber and fru	501	
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Assadābād village. The track then skirts the E. shore of Lake Zeribar. Marshy ground. 59 62½ 66 Cal'ah Merivan, substantial stone fort, about 300 yds square, with Persian garrison. Good timber and fruits.	177.110 to	Track crosses the plain of Bihif (?).
Lake Zeribar . Marshy ground. 59 62½ 62½ 66 Qal'ah Merivan , substantial stone fort, about 300 ydesquare, with Persian garrison. Good timber and fruit		
59 62½ 66 Qal'ah Merivan, substantial stone fort, about 300 yds square, with Persian garrison. Good timber and frui	ĐĐ <u>‡</u>	Assadabad village. The track then skirts the E. shore of
62½ 66 Qal'ah Merivan, substantial stone fort, about 300 yds square, with Persian garrison. Good timber and fruit	59	
square, with Persian garrison. Good timber and fru	621/2	
	66	Qal'ah Merivan, substantial stone fort, about 300 yd
trees on surrounding nills. Export of gall-nuts.		
	19004 mil	trees on surrounding hills. Export of gall-nuts.



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٣٣٩] (٨٤ ٢/٢٣٤)

		(122)
	ROUTES 36 a, b	239
Miles from Sulei-		
māniyeh	(For details of the rost of the treat see Poutes in Per	oia.
	(For details of the rest of the track, see Routes in Pervol. ii, 85.)	siu,
	General direction now E. Good grazing, and some cu	lti-
	vation and game.	
87	Sheikh 'Attār village, 30 huts. General direction to Barudar ESE.	
	Abundant water, some cultivation.	
114	Barudar village. General direction to Duvizeh E. St	еер
21.6	ascent and descent beyond Barudar.	
129	Duvizeh village. General direction S. by E. Track h. but good.	illy
$\frac{136\frac{1}{2}}{144}$	Safyān village.	
144	Senna, in well-watered district. (For description, Gazetteer of Persia, vol. ii, under Sinneh.)	see
	distribution of 2000m, ton in dilute printers,	
	ROUTE 36 b	
	ROULE 50 D	
	SULEIMĀNIYEH—PENJEVIN (37 m.?)	
	Via Harmaleh	
Authority	:-Routes in Persia, vol. ii, no. 85, alternative stages (report of 1881).
	stances over this route are very uncertain. It is said to le in winter.	be
Miles from		
māniyeh	A Committee of the Comm	
0	Suleimāniyeh. Track crosses the plain and ascends steep rough slope.	s a
$3\frac{1}{2}$	Gardān or neck of pass.	
$6\frac{1}{2}$	Foot of lower spurs of Giuzeh (? Girgeh) Hills.	
10 15?	Naudeh village. The plain near here is called Bazkadra	ih.
171 ?	Kimseh? village. Rough descent for 2-3 m. Harmaleh village, near a tributary which joins the Less	2011
2.	Zāb at Altun Köprü. Camping-ground near stream	
	enclosed plain below low hills; very hot in August.	***
	Valiabar, Maneh, and Suwādlar, Kurdish villages in t	he
Total Control	neighbourhood.	
	The track winds through fairly wooded hills and valley Few villages.	ys.



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40 LAND ROUTES	
liles from (
Sulei- nāniyeh	
30? Summit of Taridar range of	hills, which forms the
boundary of the <i>Nahiye</i> of Qizilj 32½? Foot of Taridar range. Track no	en. ow runs across Qiziliel
plain.	- Control of the cont
Times taken on a ride from Penjevin to	
From Penjevin to foot of Taridar ran Ascent to summit of Taridar	3 hr.
From summit of Taridar to Harmale From Harmaleh to Kimseh	$\frac{41}{4} \text{ hrs.}$
From Kimseh to Naudeh From Naudeh to foot of Giuzeh or 6	Firgeh Hills . 1 hr.
Ascent to Gardan From Gardan to Suleimaniyeh .	1 hr 1 hr.
ROUTE 36 c	
DENIEVIN DANAH (24 \
PENJEVIN—BANAH (
tuthority:—Routes in Persia, vol. ii, 104, stages 4-5 re 1905).	eversed (reports of 1882 and
This is a mule-track, liable to become ve	ry muddy in the plains
nd, in the hills beyond Serambal, almost,	if not quite, impassable
n winter owing to snow. The Bimānsū Cerious obstacles in flood.	nai and Surab would be
	ies are scarce. There i
o information as to fuel and fodder.	
Penjevin (alt. 4,850 ft.). General	direction N
1 Apparently direction here is wester	erly, going for 1 m. over
open bare ground down valley b Ford Bimānsū Chai (or Qizil O	
deep (it is not stated explicit.	
apparently in spring). Open ground till a small defile is i	eached near
5 Bamabal village.	
Route skirts foot of hills on E.: of to W. of road.	sumvated but wet plan



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٢٤١] (٢٢/٢٥٠)

		(123)	
	ROUTES 36 b, c, 37	241	
Miles from Penjevin			
6	Cross wide plain, with some isolated hills on it. Cross rocky saddle.		
9	From the saddle down line of small stream, an	d thence	
41	over open plain.	ad from	
14	L. bank of Sūrāb (or Chiler) River. Here a ro Suleimāniyeh via Bistan joins route. Bistan i		
	be 2 hrs., and Suleimāniyeh 10 hrs. distant.		
	Cross Sūrāb River: 70 yds. broad, just fordable. Up r. bank of small stream (apparently a tributar	rv of the	
	Sūrāb). Then ascend by zigzag path, not rocky (4		
16	5,050 ft.). Over undulating forest ground for 2 m.		
18	Skirt along hill, ascending, with deep wooded rav		
19	Alt. 6,050 ft. The Turco-Persian frontier is here.	crossed	
21	Down spur, then up for a short distance to		- 10
21 22	Serambal (or Serambend), 50 houses. Ascend slightly. Summit of spur (alt. 6,200 ft.).	Descend.	- 11
- 6 10	In next mile two more spurs and two deep ravi-	nes have	- 11
23	to be crossed. Part of path is in zigzags: very Between this point and m. 25 there is a 'fearful		- 10
harm	road in wind or heavy snow' on the descent of a		
25	spur. Drifts may be too deep for mules. Ford stream below spur (bridge marked on map, 1	914).	- 10
	Undulating road.	- Grazin	- 10
28 29	Artificial mound on r. bank of stream (Ab-i-Fan?) Through valley: on r., village of Helebjik and		
	Fan. Through wooded hills, and up banks		- 10
31½	stream fringed with willows to Low saddle with ploughland.		- 10
32 ² 34	Very muddy road.		
94	Banah. (See Gazetteer of Persia, vol. ii, under B	aneh).	- 10
	ROUTE 37		111
	KIRKUK—SULEIMĀNIYEH		
Th.	The state of the s		
rolling t	ountry between Kirkuk and Suleimāniyeh consists uplands. The Hamawand Kurds who live here a	of open	
origanus	and fighters. In 1887 a route from Kirkuk to Sulei	māniyeh	
MES. 111	Q		

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242 LAND ROUTES was reported on, which was said to be passable for wheels as far as the Baziyan Pass. The report on the route, which is given below under (A), has, it is stated, been confirmed by recent local information. In 1903 a route from Kirkuk to the Baziyan Pass via Kurga was found 'just passable for carriages', and a road similarly described led from the pass to Suleimaniyeh. (Possibly Routes (A) and (B) coincide from Chemchemal.) In 1909 a journey from Kirkuk to Suleimāniyeh via Chemchemal, and, apparently, the Baziyan Pass was made by a track which was said to be quite unfit for wheels except in the last 16 m. into Suleimaniyeh. It is impossible to say exactly what is the relation between the route (given under (C) below) and the road or roads described in 1887 and 1903. In 1909 a traveller, accompanying a caravan, made a détour to the N. through the Shuan country to avoid the Baziyan Pass. His route is referred to under (E) below. The only supplies to be obtained in any quantity between Kirkuk and Suleimāniyeh would be sheep and goats from the nomad Kurds. In peace time large flocks and herds pastured on these uplands at least from October till June. Beyond Chemchemal very few permanent villages, and these deserted April-Nov. Water is reported plentiful on Route (A) between Kirkuk and Chemchemal. On Route (B), in spring 1903, it was reported scarce throughout. In 1909 a good supply was found at Chemchemal (wells and small streams) and Khān Jāriyeh (stream). In the Shuan country to N. (see Route (E)) water is scarce in summer. Grazing is very good in spring and until June, especially in the Shuan country and in the Baziyan Valley. Fuel is very scarce. An uncertain quantity of mules, horses, and donkeys might be collected from the neighbouring tribes en route. July (A) Authority: -Military Report on Eastern Turkey in Asia, vol. iii, 106 (a report of 1887). Miles from Kirkuk 1 The route leaves in an E. direction over low 0 gravelly hills, and is stony and steep in places. Water 2 was reported plentiful (?) in 1887, but country mainly pastoral, with a fair number of villages at first. It would appear that it is not difficult to miss the right track, there being numerous side-tracks to Kurd villages. 30 Chemchemal, small town (about 200 houses). T.O. In 1887 there was a post of 250 infantry and a battery of



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		(124)	
		ROUTE 37 243	
S	Miles from		
	Kirkuk	mountain guns. In 1909, 8,000 troops were collected	
		here to deal with the Hamawand brigands.	
		From Chemchemal the road continues over gravelly hills.	- 101
	38	Baziyan Pass, an opening in the Qara Dāgh, with	-88
		room for two caravans to pass. There are still to be	- 101
		seen the ruins of a wall built across the neck of the pass	-100
		by 'Abd er-rahman Pasha of Suleimāniyeh in 1805, in an attempt to assert the independence of this part of	- 100
		Kurdistan. NW. of the pass are the Chemala and	300
		Khalkalan ranges of earth hills, of no great height, with	- 1111
	Liller	furrowed sides.	-100
	41	Deir Gezin, Kurdish village, with streams from the Qara	- 101
		Dāgh. The road now enters the Baziyan Valley, or	- 101
		plain, down the middle of which runs a line of hills lower than the Qara Dāgh. The road passes N. of the	- 100
		end of this ridge.	- 88
		Baziyan village, the chief Hamawand village, lies a little	- 88
	o Piller	way up the plain.	- 88
	50	The road crosses the hills by an easy pass near the Tāsluji	ш
		Tepeh, down to the Suleimaniyeh Plain, open undulating	-10
		ground, with several streams, all fordable, though the	-80
	66	Khanjiru or Bakhān is deep and swift as late as May. Suleimāniyeh. 2,500 houses. T.O.	ı
		(B)	В
	Authority : to S	—Sykes, Dar-ul-Islam (the journey therein described from Kirkuk uleimāniyeh took place in the spring of 1903). Total time, 20 hrs.	1
	Just p	assable for carriages. Water scarce.	Ш
	Hrs.	Kirkuk. The route to Chemchemal apparently goes some-	
		Kirkuk. The route to Chemchemal apparently goes somewhat N. of that followed in 1887, perhaps by Gulen Ova.	
	5	Kurga.	
	8	Chemchemal. Over Baziyan Pass to	1
	14	Bebejek.	4
	20	Suleimāniyeh.	1
	full	(C)	
	Authority;	—Report of a journey made apparently in 1909 (the report is dated February 1910).	H
	This		H
	passable	track as far as Chemchemal is described as absolutely imfor guns, and in need of repairs for camels. Nothing short	18
	of maki	ng a new road would make it practicable for guns. From	111
		Q 2	1
			111
			1
1			196



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٤٤٢] (٣٥٢/٢٣٤)

244	LAND ROUTES
Blasting Khān Jā	emal to Jāriyeh is a very difficult stage, impassable for camels. would be necessary to turn it into a good camel track. From riyeh to Suleimāniyeh the road is level, easy, and suitable out for guns.
Miles from Kirkuk 0	 Kirkuk. Track leaves town bearing somewhat E. of ENE. (70°) towards hills. The gradients to m. 12 are very steep. The track leading up to first pass is very rough. Top of first pass. Track descends in E. direction.
7	Bottom of pass. Here is a stream which flows parallel with the route for some way. Track improves. It runs up a valley bearing between ENE. and NE. by E. (60°).
$\frac{10\frac{1}{2}}{12}$	Top of second pass. Descend about E. by N. (80°). Bottom of pass. Track in very bad condition, stony and broken. Overhanging cliffs in parts. Continue between ENE. and NE. by E. (60°) over rolling downs.
21 23 24	Foot of Jebel Mekrān , which is crossed in an E. by N. direction (80°). Limited water-supply on W. side. Chemchemal visible. Descend. Reach Lummocky plain, which is crossed to
27 28 36	Chemchemal. See (A), m. 30. Continue over plain between NE. and NE. by N. (40°). Reach foot-hills. These are crossed in same general direction by a very bad road, over several small streams.
38	Foot-hills cease. Road ascends gentle slope between NE. and NE. by E. (50°). Reach pass in hills called by authority Jebel Khanzīreh. This pass, which seems to be the Baziyan , is described
40	as easy. Beyond the pass continue between NE. and NE. by E. in middle of valley about 1 m. wide. This runs into Baziyan Valley, a large valley running here NW. and
4	SE. between the Jebel Khanzīreh and the Tāsluji Tepeh (called by this authority Jebel Taralusa). Track turns sharply down the side of the valley, going between SSE. and SE. by S. (150°).
45	Reach stream (12 ft. wide, 1 ft. deep). Suitable place for camp. Track now crosses to N. side of valley, going somewhat N. of NNE. (20°).



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	(12)	5)
	ROUTE 37 245	
Miles from		
Kirkuk $47\frac{1}{2}$	Reach N. side of valley. Proceed along it, going a little S.	
1.2	of SSE. (160°).	
$50\frac{1}{2}$	Turn sharply to between ENE. and NE. by E. (60°) to	
	cross the Tāsluji Tepeh by a very bad, stony, and steep	
52 1	track, impossible for loaded camels. Top of pass.	
54	Reach plain. Khān Jāriyeh, 200 houses (not mentioned	
	by other authorities). From here the track, which is here	
	plainly marked, runs across a grassy plain about E. by S. (100°), following the telegraph poles. It is passable	
	for guns. Distance given as '6 m.': an error for 16 m.?	
70	Suleimāniyeh.	
	(D)	
4		
Aun	cority:—H. G. Hony. Correction to W. O. Map, sheet 35 (1912).	
This r	oute goes to the N. of Route (C), above.	
Miles from Kirkuk		
0	Kirkuk (alt. 1,383 ft.). Route starts about NE. by N. up	
9	l. bank of the Kirkuk (Kissa) Chai.	
$\frac{2}{3\frac{3}{4}}$	Cross mouth of a tributary of the Kirkuk Chai. Pass Yarvali village on opposite bank of Kirkuk Chai.	
$6\frac{3}{4}$	Cross to r. bank of Kirkuk Chai and continue up-stream,	
saviti i	going about NE. by E.	
$\frac{8}{10\frac{1}{2}}$	Cross a small stream and pass Buyuk Soura to l. Pass Kuchuk Soura to l.	
$10\frac{1}{2}$ $11\frac{1}{4}$	Recross Kirkuk Chai, and continue in same direction as	
4	before (NE. by E.), leaving the stream, which above this	
	point flows from about N. by E. Proceed over undu-	
131	lating country. Cross small stream flowing southward.	
14	Cross another stream flowing southward. Ascend gradually.	
17	Alt. 2,651 ft. Descend.	
17 3 183	Track turns to E.	
1834	Grouma, on bank of stream. Alt. 2,382 ft. Cross stream and proceed over rise.	
193	Cross another stream. Ascend slope on farther side and	
01	then turn about SE.	
$\frac{21}{21\frac{3}{4}}$	Track turns about SSE. and descends into depression.	
214	Cross small stream.	

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246	LAND ROUTES
Miles from Kirkuk 2214	Cross small stream. Ascend out of depression, and skirt hills to SW.
$\frac{23\frac{3}{4}}{29}$	Bina. Track turns ESE. T.L. from Suleimāniyeh to Chemchemal crosses road from W. Track now runs S. of T.L.
$\frac{31\frac{3}{4}}{32}$	Pass ruined fort to 1. Chemchemal.
	(E)
Authority ;-	—E. B. Soane, To Mesopotamia and Kurdistan in Disguise. (The journey om Kirkuk to Suleimāniyeh was made in the spring of 1909.)
were plus Shuan K with what struck of of Kirku open graat first free divided hours at from what caravan to that of the well-water Valley, 2	der to avoid the Baziyan Pass, where the Hamawand Kurds andering caravans, and also to obtain the protection of the Eurose who were friendly with the Hamawands, the caravan ich Mr. Soane travelled (a large one including 70 soldiers) if the ordinary Kirkuk—Suleimāniyeh route a few miles out ik, and marched almost due N. into the Shuan country, assy downs with excellent pastures. The caravan suffered from lack of water. Long stops were made, the days being into morning and evening marches with a rest for some noon. Apparently on the second day a point was reached ich the Lesser Zāb could be seen. On the third day the turned southwards, and leaving the Shuan country entered the Hamawands. Towards sunset, after passing through ered, well-wooded country with fine pastures, the Baziyan ered, well-wooded country with fine pastures, the Baziyan ered, well-wooded country with fine pastures, the Baziyan ered, in the Tāsluji Hills and descended to the plain of hiyeh.
	SULEIMĀNIYEH—RANIYEH (75½ M.)
Author	rity:—Military Report on E.T.A., vol. iii, 113 (a report of May 1888).
becomes went to to Dukh	oute is passable for wheels in the Suleimāniyeh Plain, but a mule-track as the Zāb is approached. In 1903 Sykes Surdash (10 hrs.) by Dartut (5 hrs.): and from Surdash an in 4 hrs.: 'a good mule-track impassable for carriages'. track goes to Surdash E. of Pīr 'Omar Gudrun by the



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	(1/0)
	ROUTES 37, 38 247
route to	Marga (m. 573) apparently branches off from this mule-
track, and	d fords the Qara Cholan). is no adequate local means of transport either at the Dukhan
f-warr orto	the Lesser Zāh (m. 47½) or at the crossing of the Khudran
River (m	623). Besides these there are various small streams and
Water	l irrigation cuts which should present no difficulty. is found all along the route, but that from the springs at
Raniwah	is unpleasant in taste. Fuel and fodder are generally
good, and	I some wheat, rice, and fruit could be obtained. The nomad are large numbers of sheep, goats, cattle, horses, and mules.
The de	etails concerning villages are unreliable, as the country has
been uns	settled. The sedentary Kurds often spend the summer in
booths or	n the hill-sides.
Miles from	
Sulei- māniyeh	Suleimāniyeh. The track is broad and gravelly, running
0	W. over a rich loamy plain.
$1\frac{\frac{1}{2}}{1}$	Al Bū Lāg village 1½ m. to l.
$1\frac{1}{2}$	The track crosses three small streams and undulates over low mounds. Springs along the foot of the hill to r.
$3\frac{3}{4}$	Ser Chinar. Large spring of good water which becomes
	a stream 30 ft. wide and 2 ft. deep, running into the
41/4	Khanjiru Chai. Ford across the Khanjiru Chai (or Bakhān). River 200
-4	vds wide in a shallow pebbly bed. Alt. 2,245 ft.
43/4	Low hills 1 m. to r., outliers of the Pir 'Omar Gudrun range.
$5\frac{3}{4}$	Track broad, ascending a valley, over undulating country.
$9\frac{1}{2}$	Hamawand camps may be seen in this neighbourhood.
$11\frac{1}{4}$ $12\frac{1}{4}$	Plain gradually narrows and is now 4 m. broad. Some low rocky mounds cross the plain and form the
1-4	watershed between the Diyāleh and the Lesser Zāb. Track
131/4	broad and gravelly, crossing several small streams. Ruins of tomb and village; track undulates over spurs of
104	the range on the r.
14	Alt. 2,735 ft.
$14\frac{1}{2}$	Narchu, 30 flat-roofed huts of mud and stone in a valley ½ m. to the r. Gardens and orchards.
$15\frac{1}{2}$	Hiskaneh , 40 huts, on a stream $1\frac{1}{2}$ m. up a valley to the r.
$16\frac{1}{4}$	Soil stony; good grazing. Darbarberu, wretched village of a dozen huts ½ m. to
104	the r. Some cultivation and fruit.



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248	LAND ROUTES
Miles from	
Sulei- māniyeh	
10	Easy undulating track. Some wheat-fields.
18	Yerankos, village of 30 houses. A stream in an open valley at the foot of Pīr 'Omar Gudrun 3/4 m. to r. of the track. Some cultivation and fruit. Altitude of village 2,745 ft. Track stony.
	Pir Omar Gudrun peak (9,700 ft.) to NW., a rugged conical
· hanne	mass scored by ravines; good landmark. Rounded, easy hills opposite. Zāwiyeh village with large orchards up a gorge with stream.
191	Steep ascent by short zigzags for 200 yds. across a spur;
	the lower slopes of Pir Omar Gudrun.
20	Alt. 2,800 ft. The plain here is 4-5 m. wide. Small
203	villages high up the mountain to the SW.
704	Track descends into stony valley, crossing water-course at the foot. Descent and ascent easy. Good going.
221/4	Qara Chatan, 150 houses at the foot of a rocky spur from
violence	the r. Fig-orchards irrigated by springs. Track 5 ft
$23\frac{1}{2}$	wide through orchards and village. Ruined village.
25	Some huts $\frac{3}{4}$ m. to the r. under the hill-side.
$25\frac{1}{4}$	Su Sai, 60 huts on a large stream 4 m. to l. Orchards
271	along the stream.
na chuid	Khān-i-Mīrān, 50 houses 1 m. to I. Alt. 2,420 ft. Considerable cultivation. Track here divides, one branch following the centre of the valley, and rejoining the
$28\frac{1}{2}$	present track at Dukhan ferry (m. 47½).
202	End of plain. Track follows a broad valley running NW. The main valley runs W. to the Lesser Zāb. Between
100	these valleys is a rugged group of hills covered with low trees and brushwood.
01	Rocky ridge 300-400 ft. high in plain ½ m. to r.
31	Track follows a narrow winding ledge for a short distance, undulating over clay spurs.
	Tabin River, swift stream over gravel, 30 yds. wide, 2 ft. deep, lined with willows, poplars, and orchards. Spring.
C. 175 .	Track now follows a narrow ledge on the far side of the
201	valley.
$32\frac{1}{4}$	Track skirts range to r. and ascends small valley along a water-course. Breadth of track 12 ft.
321	Steep zigzags in the hill-side and then a gradual ascent.
-	- Statuta ascent.



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٢٤٩] (٥٨/٢٣٤)

		(127)
	ROUTE 38	249
Miles from		anguine .
Sulei- māniyeh	Gradesh 100 houses divided by a weeky count	t the feet
34	Surdash, 100 houses divided by a rocky spur, a of Askut Dāgh. This mountain rises 2,000 ft.	
	village in a steep wall of rock with a jagged	
	It is quite impassable.	
	Two large springs irrigating orchards. Abunda on the hill-sides. Many oaks and poplars.	nt grazing
	The track is now stony and winding, and runs	parallel to
	the Askut Dāgh.	
$35\frac{1}{2}$	Track crosses small stream lined with mulberr	
	trees. Vine cultivation. Then follows des	scent over
$36\frac{1}{2}$	Small V-shaped valley on r. with orchards and	vineyards.
0.5	Track stony and rugged.	
$\frac{37}{38\frac{1}{4}}$	Cross a broad spur. Alt. 2,750 ft. Track easier	
004	Steep, narrow descent, with short zigzags among Gaichina village, 50 houses on a plateau. A sm	
	lined with orchards of pomegranates, figs, and	vines runs
	through the village. Alt. 2,555 ft. Fertile ray	vines near.
	Sarka Kailkusma Dāgh, ridge to SW. Wheat of on the lower slopes. Oaks and brushwood in the	
	Villages high up.	ile ravilles.
	Track for $\frac{1}{4}$ m. descends steeply along a 10-ft. le	dge in the
391	hill-side.	with law
002	Easier slope through wheat-fields; along a lane stone walls. Alt. 2,125 ft.	WITH IOM
201	Some huts $\frac{1}{2}$ m. to r. high up on the hill-side.	
$\frac{39\frac{3}{4}}{40}$	Cross narrow stream from a gorge in the Askut I	Dāgh.
40	Oaks, poplars, and orchards on a large stream to to the Lesser Zāb. Khāni Khān village, 40 hu	r. flowing
	neighbourhood.	its, in this
401/4	Good 12-ft. field-track, following general line	of valley
411	towards the Lesser Zāb. Alt. 1,900 ft.	
112	Cross stream lined with terraced vineyards and Valley fertile and well wooded. Track easy.	orchards.
413/4	Pass ziyāret in a grove of oaks. These surround t	he shrine.
	The trees in such cases are never cut. Track	undulates
421	over stony spurs from the r. Alt. 1,700 ft.	lier mi
	Pass village of 30 houses high up to r. at base of Askut Dāgh now ends in low rounded hills.	illi. The
423	Steep zigzag descent for 200 yds. over bare sh	ale spurs.
	Soil is a soft grey shale.	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٥٠٠] (٢٥٠٩)

250	LAND ROUTES
Miles from	
Sulei- māniyeh	
$44\frac{3}{4}$	Reach the Lesser Zāb, 150-200 yds. wide, with a swift
	current over a gravelly bottom.
	The track ascends the river valley. Good grass on the
45	slopes. Qal'ah Dukhan, dismantled fort 60 yds. square, with
	round flanking towers, on a knoll overlooking the stream.
in telling	The heights above command it.
47	Dukhan (or Du Kani, 'two springs'), small khan with a
471	few houses.
471/4	Dukhan ferry, one <i>kelek</i> . Horses and mules have to be swum. A backwater on each bank helps the crossing.
white roles	The valley is 400 yds. wide. On the r. bank spurs come
	close to the water's edge. River 150 yds. wide; fordable
	in l.w. Deep and rapid in h.w. The Tang-i-Dukhan,
	through which it emerges, is 1 m. up-stream.
	Track now leaves the river and skirts the low hills bordering
48	the valley. Abundant grazing on the hill-sides. Track turns to the l. shortly before the Tang-i-Dukhan over
HOLDER	a rounded spur with small ravines. Soil shale, with
	some gypsum.
$49\frac{3}{4}$	Summit. Alt. 1,750 ft. Diagonal descent by a steep
501	gradient.
$50\frac{1}{2}$	Gradient 1 in 3 to 4, following 3 ft. ledge in the clay for 300 yds. A road fit for wheels could be improvised. Alt.
	1,360 ft.
51	Ford a tributary of the Zāb, 15 ft. wide, 1 ft. deep (l.w.).
	Gulnāri, 60 houses of Kurds, on the opposite bank. Pome-
	granate, fig, and vine cultivation. Large flocks of sheep
	and goats on the hills. Some cattle. Good grass. Track good, following the river, here 50 yds. wide, but
walley to	becoming broader farther on.
$52\frac{1}{4}$	Undulating easy track. Some wheat cultivation. Track
. dennish	inclines to l. and ascends a small side-valley, leaving the
	river.
The state of the s	The Kutsrut Dāgh , high range, to the N. Lower slopes rounded and grassy: higher, rugged and sparsely wooded.
$54\frac{1}{4}$	Track divides, the lower branch being the easier. The other
-4	ascends to the l. through two small villages up the
	Kutsrut Dāgh and reaches the plain farther N.
$54\frac{1}{2}$	Skirt a shale hill to the 1. by a well-worn ledge 2 ft. wide.
	Then ascend a broad spur from the Kutsrut Dāgh.



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٥١٦] (٢٣٢/٢٦٠)

			(128)
		ROUTES 38, 39	251
	Miles from		20 miles
	Sulei- māniyeh	Summit of spur (alt. 1,760 ft.). Fine view	y of plain of
	$54\frac{3}{4}$	Raniyeh and Marga.	v.or plain or
	561/4	Turbeh, 100 well-built houses. Water from a	
		Rich gravelly soil; wheat cultivation and	
		Pai Kūh, large village in orchards and opposite bank of the Zāb where it enter	
		Sheikh Ismail.	to the rung r
1	574	Easy broad track with gradual descent.	
)e	573	Marga, 200 houses on the lower spurs of is 10 m. to the E. It is the seat of a	
g.		Qal'ah Dīzeh. Large mound and ruins in p	
e -		Route to Banah (48 m.), difficult up to Ban	ah Sū.
9	$58\frac{1}{2}$	Reach plain, the river 1 m. to r. Good gras	s; soil a rich
1,	593	loam. No trees. Cross small stream from 1.	
ng	4	Chailasura, 30 huts, $\frac{1}{2}$ m. distant on 1.	bank of the
		Lesser Zāb, here 150-200 yds. wide with r	apid current.
er h	61	Track skirts the river. Broad track, trending away from the river.	Orahands and
111	01	cultivation on the upper slopes of the E	
ep.		Low oak scrub.	
	$62\frac{3}{4}$	Ford the Khudrān River, 60 yds. wide, 3 ft.	deep. Swift
ior lt.	641	current. Probably unfordable in h.w. Some huts; irrigation channel 6 ft. wide.	
	65	Numerous mounds in this neighburhood.	dr al
		Quru Shina on the r., 40 poor Kurdish huts.	
ė n	661	The Lesser Zāb is now 1 m. to the r. Some rice cultivation. Track swampy in pla	200
ep	68	Pass Bazmusian, 40 huts, near a mound.	ces.
at	004	Some irrigation cuts.	
k	$\frac{69\frac{1}{2}}{71}$	20 huts to r., by a mound.	
t e	$75\frac{1}{2}$	Pass Gulek, 60 huts, to 1. Raniyeh, 300 houses.	
	2	,	
es		ROUTE 39	
d. er			
10		KÖI SANJAQ—SULEIMĀNIYEH (634	
	Attend to	rity:Military Report on E. T. A., vol. iv, Route 112 (repo	
	along th	main track to Suleimāniyeh keeps SE. over	open country
		e foot of the Heib es-Sultan Dagh, which lies	to the E., and

"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٢٥٢] (٢٣٢/٢٦١)

252	LAND ROUTES
rav 50: the asc Du I	ides this open district from Raniyeh Plain. It crosses several ines trending towards the Lesser Zāb. These ravines are about ft. deep, with more or less difficult descents and ascents, and only larger of them carry water in the l.w. season. Another track ends the Heib es-Sultān Dāgh, and goes by Kāni 'Othmān to khan ferry.' In 1903 Sykes travelled from Dukhan to Köi Sanjaq in 7 hrs.; d mule-track; water plentiful.
	s from San-
	jaq
	 Köi Sanjaq. Cross a stream. Track keeps 2 m. from ridge on 1. Soil
	stony clay with occasional ledges of sandstone.
	6½ Cross a stream. Some wheat cultivation. Track good and broad in places, but often merely a ledge or mule-track, 2 ft. wide, over clay or soft sandstone.
	9 Dundur, a few huts. A direct track leads from here to
	Dukhan ferry, and so to Suleimāniyeh (see <i>Route</i> 38). It follows a steep mule-track past some Kurd villages over a wooded ridge. The descent is steep to Dukhan (20 m. from Köi Sanjaq).
1	1 Cross a stream in a ravine. 3 Chewashun, Kāsbegi, and Kānikur, villages at the foot of ridge 2 m. to 1. Nomad encampments may be seen here in spring.
1	6 Kharābeh village $1\frac{1}{2}$ m. to r.
1	6½ Descend to valley of Lesser Zāb. Keep down a valley with reddish clay hills to r., and sandstone ridge to l.
	A track runs up the river valley from Khānābi to Dukhan. At $2\frac{1}{2}$ m. pass Bogut, a Kurdish village, with a small masonry fort on the height above the village. At $5\frac{1}{2}$ m. a steep, stony ascent over a prolongation of the Heib es-Sultān Dāgh. At 8 m. pass Kirkusmuk.
	Descend steeply by a zigzag with a gradient of 1 in 6 to 1 in 10, and at 12 m. from Khānābi reach Dukhan.
	Track now leads over a low wooded ridge.
3	6 Khān i-Mīrān. (For the rest of the track, see Route
6	$38, \text{ m. } 27\frac{1}{4}-0).$ Suleimāniyeh.
7	

"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٣٥٣] (٢٣٢/٢٦٤)

	(129)
	ROUTES 39, 40 253
d	
	ROUTE 40
	ALTUN KÖPRÜ—RANIYEH (66½ M.)
;	Via Valley of the Lesser Zāb
	Authority: - Military Report on E.T.A., vol. iii, Route 108 (report of October 1892).
oil nd ek,	To Taktak, 32 m., this is a good route, passable for wheels, although difficult at some places. To Köi Sanjaq the route appears to have been passable for artillery except in a few places where levelling and widening were needed. The soil is clay or gravel. From Köi Sanjaq to Raniyeh the track in 1892 was rough, stony, and steep in places, but was apparently considered passable for guns. The chief obstacle is the Khudrān River (m. 55), but this seems
to	easily fordable.
38). ges	At Taktak, Köi Sanjaq, and Raniyeh there are supplies to be had. Open space suitable for camping is found near Taktak and Köi
an	Sanjaq, and in the valley of the Khudrān (m. 54). The plain should be avoided as a camping-ground owing to malaria: the border hills are healthy. Good water from Khudrān River and springs. Fuel
of ere	from hills. Wheat and rice are grown round Raniyeh. Fine grass in May and June.
	Miles from
ith	Altun Köprü. A good route, passable for wheels, although difficult at some places, follows the r. bank of the Zāb to
	Taktak (32 m.).
IL the	There is no information as to details of the route as far as Taktak. For villages on the Zāb see Route III F.
ri di	32 Taktak, Kurd village of 30 houses, on the r. bank of the
1),	Lesser Zāb, the channel of which in October is here 110 yds. wide, 4 to 5 ft. deep. The river bed is here shingle, and 300 to 400 yds. wide. The river is fordable
nit .	at several points. Taktak is the head of raft navigation at ordinary l.w. season. For steamer navigation on the
	Lesser Zāb see Route III F. A trade in tobacco is carried on with Baghdad, large rafts being used for trans-
	port. Wheat, wool, and pomegranate skins for dyeing are also among the cargoes. On the r. bank there is an



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٢٥٤] (٣٢/٢٦٣)

254	LAND ROUTES
Miles from	
323/4 34 36 373/4	ground rises rather steeply to the Kherenao Dāgh, with a village of that name about 1½ m. off. A route from Kirkuk is reported to reach the l. bank of the Lesser Zāb near Hamdun (Route III F, m. 103). This route passes through the hills of the Shuan country, which in spring are grassy downs. The Shuan Kurds are a strong semi-nomadic tribe (mostly shepherds), who have a reputation for law-abiding conduct. From Taktak route follows r. bank of river for about ¾ m. Route diverges from river, over rising ground. The Zāb disappears from view. Easy broad track. Farther on route follows broad summit of a spur between two ravines, and then apparently descends, and runs about 1 m. l. of a sandstone ridge, rising between it and the Zāb. Baghajder village, ¼ m. to r., almost hidden among ravines. In places the road, otherwise passable for artillery, requires levelling. Cross a stream, from the Heib es-Sultān Dāgh, with little water in October, in a shingle bed 30 yds. wide. Ascend
40	the r. bank for a short distance. Track rather narrow in places where washed away. Enter an open plain extending to the foot of the hills to the E.
43	Shīleh, 40 houses, 1 m. to l., in a ravine among gardens. Well-defined clay track. Köi Sanjaq, alt. 1,800 ft. (2,500 ft. in map, 1912). Abun-
at got a	dant open space round Köi Sanjaq for a camp. Firewood from the ridges to the N. and E. Good water. Distances from Baghajder very uncertain; total estimated in Mil. Report as 10 m., time in reverse direction 2½ hrs. From Köi Sanjaq route follows a well-used track, dipping into a small ravine.
	Cross stream-bed 40 yds. wide, of boulders and stone, with little water in October, except in canals. Sandstone formation, nearly horizontal strata. The route proceeds along an easy track covered with loose stones.
48	40 min. from Taktak reach foot of the Heib es-Sultān Dāgh, a limestone ridge, running SE., and the first outlier of the Kurdish hills. Several small ravines, which contain streams in the spring, drain south.



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٥٥٥] (٢٣٢/٢٦٤)

	Q:	(08)
	ROUTE 40 255	
Miles from		
Altun Köprü	Ascend ridge diagonally, gradient 1 in 15 to 20, by a track	
	15 to 20 ft. wide, passable for guns, although rough and	
	stony at some points.	
481	Ziyāret Heib es-Sultān, spring and shrine.	
491/4	Summit of ridge, alt. 2,940 ft. (2,800 ft.?). Route descends by short zigzags for $\frac{1}{4}$ m., after which easy gradient again.	
	Follow back of spur with rocky valley on either side. Fine	
	view of Raniyeh and Marga plains, with the gap at	
513	Derbend and Pishder Plain beyond. Limestone is replaced by a soft shale, easily broken but	
¥-4	forming a firm track. Scattered oaks and brushwood.	
	To the SE. is the valley of the Kelek Khān Dereh, which	
	extends between two ridges for about 3 m. Bakiyān, 20 houses, and Kāni 'Othmān, 60 houses, are Kurd	
	villages up this valley with orchards and trees.	
	A track runs to Dukhan on the Zāb, and thence to Sulei-	
$52\frac{1}{2}$	māniyeh. Pass Bakrān, 15 houses, on hill to r. among trees. Above	
0-2	is a steep bluff, the Kutsrut Dāgh , the eastern boundary	
	of the Kelek Khān Valley.	
	Track is stony, but fairly level and passable for guns. Commence ascent of another ridge, parallel to the Heib	
	es-Sultān, but lower and more rounded.	
$53\frac{1}{2}$	Summit of ridge, alt. 2,100 ft.; steep descent for last \(\frac{1}{4}\) m.;	
	very stony. Road 10 ft. wide, revetted on the outside and in good order.	
54	Route reaches foot of ridge, among rounded outliers and	
	spurs. Room for camping troops here. Good water	
	from Khudrān River and small springs. Firewood from neighbouring hills. Supplies from Köi Sanjaq and	
	Raniyeh. The plain should be avoided as a camping-	
	ground owing to malaria, as the soil is a rich black loam	
	with numerous small springs. The border hills are healthy.	
55	Ford the Khudrān , a rapid stream flowing from Aughir	
	Dāgh over shingle 100 yds. wide, the channel in October	
	being 40 ft. wide and 18 in. deep. Follow much-used track over the plain. Skirt the Khudrān, about $\frac{1}{4}$ m.	
-	from it.	
$56\frac{1}{4}$	Cross the Serkupkan Su, 30 ft. wide, over gravelly	
	bottom.	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٢٥٦] (٢٣٢/٢٦٥)

25	LAND ROUTES
A	les from Itun Öprü
	Pass Buraish, 20 houses, on the other bank of the Khudran,
	$\frac{1}{2}$ m. to r. Near it is a ziyāret and grove of oaks.
	59? Boraka, 20 Kurd houses, on a marshy stream flowing towards the Khudrān. Small patches of cotton are sown.
	Wheat and rice round Raniyeh, but the soil is not utilized
	to its fullest extent. Fine grass in May and June. Pass Gora Khān, 20 houses, near a spring.
	60 Doghur Khān, 20 wretched huts, on a mound 1 m. to r.
	Cross stream from several small springs.
	Easy level track; muddy in rainy weather.
	62 Gulek (Route 38 at m. 71), 1 m. distant. Thence direct to
	$66\frac{1}{2}$ Raniyeh.
,	ALTERNATIVE ROUTE FROM M. 62 via DERBEND
	Cross canal, 4 ft. wide and 2 ft. deep.
	Ford a winding, sluggish stream, 10 to 12 ft. wide and 4 to
	6 ft. deep, with marshy tracts flowing to the Zāb. At the ford it spreads over a gravelly bottom 50 yds. wide
	and 18 in. deep. It is difficult to cross except at this
	point. Rich loamy soil about here.
	Cross a large stream from the Raniyeh direction flowing in
	a gravelly ravine.
	Reach some gravelly cliffs lining the shingly and stony bed of the Lesser Zāb, here ½ m. wide.
	Pass some springs, and skirt the bend of the river.
	Tamarisk shrubs on the shingle. This is the Pishghelli
	district.
	Sirsyān, Kurd village of 60 houses, on the opposite bank.
	Pass a Kurdish masonry fort with bastions at the corners in ruins.
	Derbend village at the mouth of defile called Bābā
	Derbend, where the Lesser Zāb issues into Raniyeh
	Plain. Thence to Raniyeh (6 m.), see Route 41, m. 6-0.
	ALTERNATIVE ROUTES FROM KÖI SANJAQ TO RANIYEH.
	In 1903 Sykes followed a route from Köi Sanjaq to Raniyeh which he
d	escribes as a good mule-track. This also goes by the Ziyāret Heib es-Sultān
16	fter traversing the Heib es-Sultān Dāgh it crosses the Kelek Khān Valley eaves Nahrawān to l., turns northward near Khudrān village, and then crosse
tl	he route described above, passing over the Dahli Bisman, a small range of five
7	



"كتيّب بلاد الرافدين. المجلد !!!. ١٩١٧" [٢٥٧] (٢٣٢/٢٦٦)

ROUTES 40, 41 peaks about 4 m. from Raniyeh, while the main route skirts round the SE. end of this line of hills. Sykes took 3 hrs. to Khudran village, and 3 hrs. again from that point to Raniyeh. There seems to be very little difference in the Chudrin length between the two routes. Sykes's map shows a third route to Raniyeh which diverges to the l. a short flowing distance beyond the Ziyaret Heib es-Sultan and passes through Kusrilan near re sown. the NW. end of the Dahli Bisman. to r. ROUTE 41 irect to RANIYEH—BANAH (70 m.) Authorities:—Routes in Persia, vol. ii, Route 106 (reports of 1888, 1902, and 1905). Military Report on E.T.A., vol. iii, Route 108, pp. 269-70. The distances nd 4 to given in Routes in Persia for the stage from Raniyeh to Shlamatte (Shalmatti) are confused, probably owing to misreading of the account in the Military āb. At R.port on E.T.A. ds. wide at this The nature of the road varies greatly, and, from the information given, it is doubtful whether it would be passable, except here and owing in there, for guns or carts and transport. It is very hilly and stony with steep inclines in some parts, in others the track crosses muddy ad stony rice-fields and marshy valleys. From Ser Desht to Banah the route goes over a good open road and would probably be passable for all arms at all times. There are two intricate fords at $7\frac{3}{4}$ m. and $13\frac{1}{2}$ m. from Raniyeh which are difficult to cross without guides. Many of the streams in te bank. the valleys are liable to flood, and would then have to be crossed corners, higher up, necessitating considerable détours. No exact data can be given regarding supplies, but a limited amount ed Baba could probably be got from the villages. Forage, fuel, and water are Raniyeh fairly plentiful in parts, especially near Raniyeh. Water is chiefly m. 6-0 from streams or springs and is plentiful everywhere except in hills. No details can be given about transport. The climate is good in general, cultivation of most kinds flourishing. Between Raniyeh and Ser Desht, however, the roads are blocked by which b snow from the middle of December to the middle of March. Whether this is due merely to the small amount of traffic, or whether the es-Sultin an Valley route is rendered quite impassable, is not stated, but the former hen eroses seems possible. age of fre MES. III



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٥٩٨] (٢٣٢/٢٦٤)

LAND ROUTES Miles from Raniyeh Raniyeh. Route starts in general direction ESE. stream from a spring and makes across the plain Derbend gap. There is no road but several track fields of rice and barley: very muddy in wet we Pass Boksin, small village of Raya Kurds, \(\frac{3}{4}\) m. to Kuragu village, similar to above, close by on r. In about ten minutes T.L. (single wire) from Köi S Qal'ah Dizeh crosses the road. Spring about 1 to SW. Cross a small stream: path very stony. S\(\frac{1}{4}\) Route here rounds a spur and enters B\(\frac{1}{4}\) Route here rounds a spur and enters B\(\frac{1}{4}\) Route here rounds a spur and enters B\(\frac{1}{4}\)	n for the ks acros
Pass Boksin, small village of Raya Kurds, \(\frac{3}{4}\) m. to Kuragu village, similar to above, close by on r. In about ten minutes T.L. (single wire) from Köi S Qal'ah Dizeh crosses the road. Spring about 1 to SW. Cross a small stream: path very stony.	eather.
$5\frac{1}{4}$ Route here rounds a spur and enters Bābā Derben	anjaq to m. awa
by which the Lesser Zāb issues from Pishder into Plain. A narrow rocky ridge extends NW. to the Dāgh , and a similar ridge to the Kerkur Dāg gap is 300 yds. broad; the river being 80 yds. w 8 ft. deep, and unfordable. There is no track or of Lesser Zāb into Pishder. On the r. bank is 18 ft. wide, well revetted, but loose stones and require to be removed to make it passable for gu	Raniyel e Qandī gh. The ride, 6 to n l. banl a track boulder
6 Derbend, Kurdish (Mangūr) village of 40 houses. Track rough and stony among boulders through	
defile, close along r. bank of the river. 73? Ford the Shirushi Chai from the Qāndil Dāgh, wide, 2 ft. deep, in a shingly bed 150 yds. wide. In about 10 minutes pass Kōmallāh , village of Kurds 1 m. to 1. Turn SF and fallow river.	Mangū
Kurds ½ m. to l. Turn SE. and follow river, we steep cliffs along its far bank. On this side is a bed about ¼ m. wide, and then a stretch of marsh	a shingly of abou
a quarter mile. In spring the river fills the bed. On the l. is a succession of low spurs, terr in the banks under which the road runs. Between are gullies down which streams flow to join to	minating en thes the Zäh
The valleys are marshy, which makes the streams to ford although they are not deep, but in spring be necessary to ford higher up.	s difficul
$10\frac{1}{2}$ Kharaju, small Mangūr village under the bank. Cross a small stream in a wide bed of stone and shared	ingle.
Kinjari, another small Mangur village under the Turn l. 13½ Ford the Sharvat Su, a network of streams and overgrown with willows, reeds, and brambles. and intricate ford for which a guide is advisable.	d marsl



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٥٩٦] (٣٢/٢٦٨)

		(132)
	ROUTE 41	259
Miles from		
Raniyeh	Route to Urumiyeh via Wazneh Pass branche	es 1. (see
Dec 10	vol. iv, Route 68 a).	llal anuna
	Emerge on an open down, one of the flat para- running down from the mountains towards the Z	
7	constitute the plain of Pishder.	11 22 22
$14\frac{3}{4}$	Ford, similar to the last, over the Wazneh	River or
	Charāwa Su. Ruined and deserted village	
10 -	bank. Easy going over a flat plain gradually ri Cross spur 2,300 ft. high. Steep descent into a	oully and
18	over a stream.	Surij uru
$18\frac{3}{4}$	Qal'ah Dīzeh (Hamīdiyeh), small village under a i	mound on
	the opposite bank, on a spur which runs out	as a sort
	of peninsula, having gullies with steep banks sides. Qal'ah Dīzeh is the seat of a Kaimma	akam and
98911	the centre of the Kaza of Hamīdiyeh. No go	vernment
	buildings (1905). T.L. connecting Qal'ah Dīzeh	with Köi
	Sanjaq but not crossing the frontier. On the above the village is a fort and at its foot barrac	ne mound
417	Leaving Qal'ah Dīzeh, descend the bank by a mu	
	to the mound. Cross the stream S. of the fort;	
011	across a muddy plain and rice-fields.	: (1005)
$21\frac{1}{4}$	Serenel, small village with one good house belong to Baiz Agha, chief of the Nūr-ud-Din Kurds.	ring (1905)
	Leave Serenel in a NE. direction, crossing a stream	m. Track
	gradually rises over open country.	
23	Nūr-ud-Din, large village on the l. Pīr Mālik	
	tion of 2,300 ft., Ustināwa $\frac{1}{2}$ m. to the l. in to the other side of the stream.	the valley
$24\frac{1}{2}$	Turn r. and cross a succession of spurs, the road	gradually
	trending more S. About 600 yds. to the r. Ku	ırd village
27	of Khār Abdār in a valley. Cross a spur, 2,700 ft., and turn l., going NE. for	1 m
$27\frac{1}{2}$?	Cross a stream, down which is Shlamatte (Shalma	
4	1 m. away.	
	General direction E. to Ser Desht; turn r. (S	
	over more spurs and valley, the road steadily is the hills. Pass through oak grove with ziyāre	
301/4	Pass Gira, village of about a dozen scattered	
- Parting	slope above to 1. among trees and cultivation.	To r. is a
	mound on which are the remains of an old cast	
	The road here bends r. Good going on a flat p about $\frac{3}{4}$ m.; then begin ascent of spur, from	
	R 2	I WIIIOII a



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fertile valley opens to view below to the r. In this valley is Beshīr, a large village through which the road from Suleimāniyeh to the Pishder Plain passes. Route winds by a narrow rocky path round the hill-side. The Beshīr Su is 700-800 ft. below in a narrow gorge. Rounding the spur, the path goes NE., ascending the ravine
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Rounding the spur, the path goes NE., ascending the ravine
of Dooby Su and still bearing the ravine
of Beshīr Su and still keeping above its r. bank.
Bakhlu, 30 houses, alt. 3,900 ft. Continue winding up
the ravine, general direction NE. Turn up valley to 1.
and commence a sharp ascent. Reach plateau at 5,200 ft., cross it, and commence another
long and steep ascent. The sides of the mountains are
covered with oak. A little plateau is immediately below
the pass. On the r. is a spring.
Reach top of pass, 6,950 ft. In heavy snow a détour to the
r. is necessary from here. Even and gradual descent, following a stream on the r. by difficult and winding path.
Kanamashka, village of Malkari Kurds, on l.
The valley opens out, and there are small fields on both
sides.
Bevrān, village of Malkari Kurds, 40 houses. Cross an open valley, the slopes covered with terraced fields.
Hamlet of Beiraji Kurds, 40 houses. Ford stream. Bev-
rān-i-Zirū (Lower Bevrān) about ½ m. to r. on the other
side of the stream. Leave the valley of the Bevrān Su, which flows down a
ravine to the SE. Cross a couple of spurs and rise to
a flat plateau. This plateau is covered with ploughed
fields and crossed by a lane 8 ft. wide, almost impassable
in very wet weather owing to deep mud. Track to Maraghān branches off to the r. over the hills.
Short rocky ascent to 5,700 ft., from which Ser Desht is to
be seen $1\frac{1}{2}$ m. distant, surrounded on all sides except one
by hills, which slope down NE. towards the valley of the
Lesser Zāb, a succession of fields and well-cultivated terraces. Ser Desht is on the highest of these, separated
from the mountains on the NW. by a deep ravine.
Ser Desht, 350 houses, said to contain 2,000 inhabitants,
mostly Kurds, and a few Jewish and Armenian shopkeepers.
Two springs in the village give good and plentiful water. There is some traffic between this place and Suj Bulaq,
the seat of the Persian governor (Hakim). Persian soldiers



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		(183)
	ROUTES 41, 42 261	
Miles from Raniyeh		
Raniyen	are quartered here during the summer months, but are	
	withdrawn to Suj Bulaq during the winter. General direction of route ESE. From Ser Desht to Banah	1
	is about seven hours' journey along an open road with	1
	the Zāb to cross en route.	
	The following villages are passed on the way, the distances	3
50½	noted being approximate. Kānibard (Qalabird?).	
54	Khanihalujeh. About 1 m. to r. and between these two	
	last villages is Banejaj.	
55 59	Sianmeh, where a track joins in from Alūt. Nojgak, with Malmal about 1 m. to 1.	
$62\frac{1}{2}$	Yaknabād.	
$63\frac{1}{2}$	Zervav Sufia.	
$64\frac{1}{2}$ $66\frac{1}{2}$	Ganzaleh. Sueru, to the l.: Duman less than 1 m. to r.	
68	Kaupich.	
70	Banah (see Gazetteer of Persia, vol. ii, under Bāneh).	
	ROUTE 42	
	ERBIL—KÖI SANJAQ (463 m.)	
Authoritie	s:-Military Report on E.T.A., vol. iii, Route 110 (report of 1902). Sykes Dar-ul-Islam (journey of 1903).	8,
Acco	rding to native information given in 1903 this route was the	n
passabl	e for carriages in summer as far as Ashqaf Saqqā, but beyon	d
that po	int impassable for wheels, though a good mule-track. Other tion represents it as passable for wheels throughout. Water	
is said	to be scarce; most of the stream-beds are apparently dry	
nearly	so in the low-water season. See further under camping	g-
	s mentioned at m. 9, m. 21, and m. $33\frac{1}{2}$.	
Miles from		
0	Erbil. Leaving the khan follow a track E. over the plain. Pass an open brick duct which brings water	er
	for the town from karez. Follow a well-beaten trace	ek
40	over gravelly clay soil.	
4?	Follow a stream about $\frac{1}{2}$ m. to r. Skirt a shallow raving and stream had (dry in October)	ne
	and stream-bed (dry in October).	



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262	LAND ROUTES
Miles from	
Erbil	
$4\frac{1}{2}$	Pass Hasan Khan, ½ m. to r., with a few houses near a
0	marshy pool from a karez.
6	Pass Sekeleka, 10 houses, ¹ / ₄ m. to r., partly in ruins.
	Water from karez. A long, gradual ascent, nearing some
	gravelly hills; beyond are the sharp ridges of the Sefin Dāgh.
8	Pass Qiz Nizan, a dozen huts, ½ m. to l. on a stream.
	Good firm track 30 ft. broad to
9	Pirush, 40 houses of Dizeih Kurds 2 m. to 1. at the foot
	of outlying hills. Pass mouth of a karez with stream
	3 ft. wide and 8 in. deep (October 1902). Enter gravelly
	hills and follow a shingly stream-bed (dry October
	1902). Near the karez is a suitable site for camping
	troops. Supplies from Erbil and surrounding district.
11	Firewood from the Sefin Dagh.
-11	Spring at the base of a low cliff. Easy broad track gradually ascending.
12	Small stream in ravine which becomes lost in the shingle
	1 m. lower down.
121	Cross to l. bank of stream. Several ravines on either hand.
4	Good grass in spring on these hills.
13	Reach watershed. Open out view of Sefin Dagh and hills
	NE. To the SE. gravelly undulations with no prominent
	features. Keep along the broad ridge forming the water
	shed SE. towards the Lesser Zab and NW. to the Bas
	toreh Chai. Sandstone ledges at intervals, but soil is
18	mostly conglomerate and gravel. Road winds among low hills but remains broad and easy.
10	The Sefīn Dāgh lies nearly due N.; a rocky ridge runs
	NW. through which the Bastoreh Chai emerges by a wide
	gap. At the mouth of the gap is Derbend, 20 houses
	2 m. distant in a fertile basin. Road bifurcates. A well
	beaten track goes through the gap to valleys on the
401	Sefīn Dāgh. Turn SE., rounding several narrow ravines
$19\frac{1}{4}$	Pass a ziyāret with group of oaks. Track more stony as the
	main ridge is approached. Soil rich with a little cultiva
$19\frac{3}{4}$	tion; good grass in spring and summer. Cross a stream.
$ \begin{array}{c} 19\frac{3}{4} \\ 20\frac{3}{4} \end{array} $	Cross a stream. Cross another stream; nearly dry in October 1902.
$20\frac{4}{4}$	Reach larger ravine in which is Ashqaf Saqqā, 40 houses
21	of Gardi Kurds. Just above the village are half a dozen
	good springs, which are used to irrigate gardens below
	de la constant de la
+	



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			(184)
		ROUTE 42 263	0.
	Miles from		
	Erbil	the village. 2 m. NE. is a well-marked rocky ridge,	
N S		vicing 400 to 500 ft., covered with low oak shrubs, and	
DS,		extending towards Köi Saniag. Kermanii or Kurdish	
me		only spoken here in 1902. No one knew Turkish.	
the		Zaptiehs usually can act as interpreters. Plenty of open space suitable for camping troops. Water from	
		the springs. Firewood from ridge to N. Supplies in	
un.		small quantities. Sheep and cattle from nomad tribes.	
foot		Time from Erbil, 5-53 hrs. The times given in brackets	
am		from this point to Degareh are from Mu. Report; the	
elly		distances cannot be exactly estimated.	
er		Keep parallel to the ridge, avoiding deep ravines to the r. Cross ravine with stream from a spring (20 min.). Baqli	
ing		village, 20 huts, 4 m. down this ravine.	
rict		Cross several shallow ravines (30 min.). Aghlia, 10 nuts,	
ally		1 m. to r., down a ravine with stream, which is crossed.	
with		Ridge 12 m. to the l. covered with oak scrub.	
gle		Cross broad stony bed of ravine, dry October 1902 (47	
		min.). Cross a stream. Good level track. Cross a larger ravine with short steep descent (1 hr. 5 min.).	
nd		Descend steeply by short zigzags among rocks into a large	
31.		ravine with the Zāzir Su flowing SW. from a gap in the	
ills ent		ridge to the l. (1 hr. 25 min.). Another ridge is visible	
ter-		through the gap, parallel to the first. Stream-bed 30 yds.	
Bas		broad and nearly dry (October 1902), the water being	
lis	90	diverted into irrigation canals. Cotton cultivation. Degāreh (1 hr. 50 min.), 40 houses on the slope of the 1.	
	30	bank, up which the track steeply winds. Level track	
257		when the ravine is passed. Gradient would require	
ross nide		improving here for wheels.	
(1888)	31	Track rough and stony, but level.	
wel-	311/4	Cross a stream in a broad ravine, going SW.	
the	$33\frac{1}{2}$	A cluster of houses at the foot of the ridge, ½ m. to the l., near a spring. Cross several shallow ravines, dry in	
1165		October 1902, but containing water in spring. Good	
the Hone		soil, but little cultivated. Near here would be a good	
pa.		site for camping troops. Water from spring near	
		Tatawwul and streams. Firewood from ridge to the N.	
		Supplies scarce. Track rough, but passable for guns.	
88		Rocky mound to r., 30 min. farther on. Then cross dry ravine (35 min.); a rough stony track continues to three	
M M		dry ravines (1 hr.), and later another ($1\frac{1}{2}$ hr.; 10 min.	
1		dry ravines (1 m.), and rate (-2)	



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264	LAND ROUTES
Miles from	LAND ROUTES
Erbil	hefore Tetamoni with 1
	before Tatawwul) with broad stony channel and some rocks.
393/4	Tatawwul, a few houses in a ravine 1 m. to l., with a few trees and gardens watered by a spring. Cross two shallow ravines with stony channels.
	The times given in brackets below are reckoned from Tatawwul.
	Cross a stream (25 min.). Very rough country, full of ravines, to r.
	Round a flat-topped spur from the l. (35 min.). In October 1902 some Gardi Kurds who had left their summer quarters in the Qandīl Dāgh had arrived here with their
	flocks for the winter.
	Cross small ravines; track still rough and stony, gradually descending (45 min.).
	Cross a stream (1 hr. 10 min.). Topzawa, 20 houses, 3 m.
44	to l., near a spring. A strong stream, with Shīleh and gardens and orchards
11	about 1 m. to r. Ridge ends here. Köi Sanjag visible
100	in a well-cultivated basin.
$46?$ $46\frac{3}{4}$	Skirt base of a mound overlooking the town. On it is a square masonry fort, 200 yds. side, with round bastions at the corners. It is half ruined, but was used as an infantry barracks in 1902. Köi Sanjaq. The total mileage of the route (taken from
4	Mil. Report) may be 6 or 7 miles too long.
	ROUTE 43 a
	ERBIL—ROWANDUZ (? 60 m.)
	Via Shakhlawa and Bātās
Authoritu	—Lorimer, Report of a Tour in Turkish Arabia and Kurdistan, April-May
1910.	Distances estimated from Lorimer's times: see m. 26 and m. 394.
difficulty	road does not seem to be passable for wheels. There are, no serious obstacles, and baggage animals have not much except in the stage from Bātās to Rowanduz.
Kurds i plentiful	des are fairly plentiful, especially at Shakhlawa, and the met with appeared to be hospitable. Water is good and everywhere, and as soon as the hills are entered there is ce of fuel and timber.



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		(135)	
		ROUTE 42, 43 a 265	
	Miles from		
(D)	Erbil	Erbil. The track at first runs NE. across open plains.	
OF STREET	0	Bairkod village, 10 houses of Gardi Kurds, to W. Cross	
le le	$2\frac{3}{4}$	a small hollow.	
THE STATE OF	3	'Ankowa slightly N. of W. It consists of 300 houses of	
	0	Oriental Christians and is about \(\frac{3}{4} \) hr. from Erbil.	
fre		Qarachok Hills visible W. of S. To ENE., main peak	
		of long dark range (Sefin). A nearer and lower range	
file	111111-1111	is Dulopā.	
	5	Pirzīn, 50 houses of Gardi Kurds about 3 m. NNW.	
Ottole		Pirush, 40 houses of Dizeih Kurds, ESE.	
Sime		Nomad encampments may be seen near.	
ibbi	6	Two ravines.	
nh.l	8	Cross a small clear stream. Knoll on stony but more or	
niul		less cultivated ground. Shawāq, 25 houses of Gardi Kurds, 1 m. E.	
8/1	9	Mulla Omar, 25 houses of Gardi Kurds. Timber be-	
no In		comes more plentiful. Track rises gradually.	
rdet	1112	Summit of the outer hills bounding the Erbil Plain.	
TEE	2	Sudden descent into the valley of the Bastoreh stream,	
		which is the boundary between the Kazas of Erbil and	
iii		Köi Sanjaq. The range on the other side of the valley	
stin		is crossed, within view from this point, by three passes:	
181	1	(1) The Galiyāweh to NNE, leading to Shakhlawa	
		and Rowanduz.	
en fra		(2) The Shakhlawa to NE. also leading to Shakhlawa	
		and Rowanduz (crossed by route).	
	121	(3) The Saiwakeh, to NE. by E.	10013
	122	Cross the Bastoreh stream. Stony bed, about 80 yds. wide.	
		Track rises for some miles.	HALL
	141	Saiwakeh village 4 m. N. by E. Good spring in a hollow.	
	2	Donguzāweh village ½ m. S. by E. Rough track; fairly	BUIL
4.9		easy ascent.	118 18
101-11	$16\frac{1}{2}$	Saiwakeh fort, a square stone building with bastions.	
, 15.	$17\frac{3}{4}$	Top of the pass. Descend into a valley.	-
NE ST	20	Reach the bottom of the valley and cross a stream. Track	- 10011
TILL ST		stony and rough.	FREE ST
		Koreh, 30 houses of Hoshnau Kurds, 600 yds. to E. Tall	1000
ni i		poplars and willows near.	1811
NI II	211	Hasan Māwilāwi, 30 houses, 1 m. NW.	100
1	-12	Track runs up through a gorge, Derbend Sefin, with a	
		stream flowing through it.	
			161
			1811
			1000



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	LAND ROUTES
Miles from	
Erbil 22½	Wilayan 15 houses of Hoshnay Kunda immediately
222	Hujaran, 15 houses of Hoshnau Kurds immediately on the r. of the track. Valley running up into the hill on
	the r. At its head on N. is principal peak of Sefin Dagh
	Grove of trees.
23	Top of a small pass. Road bends E. Going heavy in wel
	weather.
26?	Shakhlawa village, at the foot of the northern precipices
	of a mountain with the same name. There are 230
	houses of Kurds, 130 of Christians, and 5 of Jews. The
	Jews are weavers, the Kurds and Christians cultivators
	and muleteers, and also weavers. Poplars are grown for
	timber, and planes and mulberries grow to a great size. Wheat, barley, $m\bar{a}sh$, and $arz\bar{a}n$ are grown, and some
	cotton, sesame, and a little tobacco. Fruits include
	grapes, apples, pears, and mulberries. There are some
	magnificent clear springs on the hill-side which drive
	five flour-mills and water the orchards, vineyards, and
	woods that extend down into a valley below the village.
	The place is sometimes used as a summer resort by
	Europeans from Mosul.
	In spite of all its resources, however, it is said to have
	a poverty-stricken appearance.
	Lorimer's times from Erbil to the principal points thus
	far are:—
\$ HOLDER	Erbil 0 0
	Pirzīn 1 25
	Mulla Omar 2 46
	Pass (m. $17\frac{3}{4}$) 5 16
	Shakhlawa 8 20
The street of	
A VILLEY IN	Track descends a stony lane to a valley. Near the foot
	of the descent it crosses a stream coming down from Shakhlawa.
273	Derbend Soraq, gap in a red ridge parallel to the hills
4	behind Shakhlawa. All the drainage of Shakhlawa and
	its valley appears to escape through this gap. The
	highest peak of Sefīn Dāgh is about 3 m. S.
29	Cross to r. bank of the Rū Soraq, the stream which issues
	from Derbend Soraq. It is of varying depth, flows
3 1.75	rapidly westward, probably to join the Great Zāb, and
	has a breadth of 5–10 yds.



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	(136)
	ROUTE 43 a 267
Miles f	
Erb	Track rises by an easy ascent.
30	Pass over the Mīrāweh ridge, which runs parallel to that
	of Soraq. It is composed of a whitish rock. Māwarāneh village, 60 houses of Rowanduz Kurds,
	2-3 m. W.
	Tilgareh village, 10 houses of Hoshnau Kurds, 3-4 m. S.
1	Mamazailkeh, 20 houses of Hoshnau Kurds, 1 m. NE.
31	Track now runs in a general N. by E. direction. Cultivation begins, reaching as far as the steep, barren
31	Harir Hills in front.
	Track to Rowanduz breaks off to r.
31	Cross a small stream with a good flow of water.
33	Mīr Rustam village, destroyed by fire in 1909. Shuweisīyeh, 10 houses of Mīr Mahmali Kurds, 300 yds.
1	to r.
	Shināweh, eight or nine houses, 1,000 yds. to r.
38	Both villages are under the Emir of Shakhlawa. Track crosses another ridge. Kōīkeh, deserted village.
38	Sīsāweh, 10 houses of Mīr Mahmali Kurds, 500-600 yds. E.
	Motrāweh, 30 houses of Mīr Yūsufi Kurds, 1½ m. NNW.
	Sursureh, 30 houses of Mir Mahmali Kurds, 2½ m. NW.
	by W. Sheikh Mahmūdiyeh, 60 houses of Mīr Mahmali Kurds,
	2½ m. distant, slightly E. of Shināweh.
	Good fruit orchards in the neighbourhood. Two streams
9,4	from valley on r. Track leads N.
34	Ari Sirak, 10 houses of Mīr Mahmali Kurds. Cross an irrigation channel.
38	
	E. on some foot-hills.
37	
	track. Path rises gradually and obliquely up to the top of a ridge
	parallel to Harīr.
38	
	House and ruin of square blocks of stone set in good mortar.
	Harir village, about 100 houses of Rowanduz Kurds, about
	1 m. NNE.
	Track runs along the SW. side of the ridge, just below the
39	crest. Bātās village, 100 houses of Surchi Kurds.
	4 (- was smage, 100 houses of button ixures.
	2



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268	LAND ROUTES
Miles from Erbil	Lorimer's times from Shakhlawa are:—
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
60?	For the next few miles there is no evidence available. The last 16 m. are the same as the last stage of the route from Mosul to Rowanduz via 'Aqreh and Qandīl ferry (see Route 45 a, m. 73½). The track between Bātās and Rowanduz is difficult. Baggage animals take a full day to cover it. Rowanduz.
	ROUTE 43 b
	ERBIL—ROWANDUZ (? 52 m.)
	Via Bahirka and the Bābā Chichek Dāgh
Autho	rity: -Military Report on E.T.A., vol. iii, Route 116 (a report of 1881).
	route appears to be a fair to difficult mule-track. No tion as to supplies, &c.
Miles from Erbil 0 3 10 11 12 13	Erbil. Route runs NE. over an undulating plain, approaching a rocky ridge to E. 'Ankowa, 300 houses of Oriental Christians, 2 m. to l. Bahirka village, 150 houses of Gardi Kurds; the residence (in 1910) of Kakil Agha, head of the Gardi Kurds. Cross the Bastoreh Chai, dry in January. This stream rises in the long black range called the Sefin Dāgh to E. Pass Dumwakh, and enter a valley among gravelly hills. Cross a watershed, 1,950 ft. Many rough, broken earth scarps, with numerous streams.
	Descend rather steeply for 300 ft., and then follow a fair track through some small glens, with clear streams and grass.



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			(37)
		ROUTES 43 a, b, 44 a	269
able the	Miles from Erbil 16	Dera village. Oak copse begins to show on the From here perpetual ascents and descents stony country, with some deep ravines and streams. Oak scrub plentiful on the hills. Cross bed of a large stream. Turn through razor-backed range in front. Track difficulture boulders in the ravines along the foot of this Keep NE., skirting a stream; the slopes bed dotted with oaks. Cross a col in the Bābā Chichek Dāgh (2,000 ftwhich runs SE. for some distance, and descent	a gorge in a cult, among range. come easier,
ied	31	oak copse and scrub. Herāsh village, alt. 2,400 ft.? Bābā Chiche 4 m. W. over some hills. Descend over easy downs, cross a stream from Desht, a long open valley to SE. Begin gradual ascent, which becomes much ste Zigzag ascent to 2,650 ft. Reach compara country, with a little cultivation. Sparse oak woods. Winding ascent along a	eper.
8). No	37 52?	steep hill-side for ½ m. Kurruk village, alt. 3,200 ft. This appears to with Qarakhin in <i>Route</i> 45 a (m. 74½), whi in this neighbourhood (the exact point cannined). (For the rest of the route to Rowanduz, see m. 74½–89½.) Rowanduz .	ch is joined not be deter-
l		POTTER 44 a	
denti		ROUTE 44 a	
in in		ROWANDUZ—RANIYEH (53½ M.)	
		Via The Bejān Pass and Balassān	
S di	This into Ran	routy:—Military Report on E.T.A., vol. iii, Route 111 (report outer is not passable for wheels, except for the niyeh. It is very difficult for pack-animals at the ent from the Bejān Pass (m. 8) and in the narrow m. $30\frac{1}{2}$ and following).	e last $2\frac{1}{2}$ m. he ascent to

"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٧٧٠] (٣٢/٢٧٩)

	270	LAND ROUTES
	A mo	are good camping-grounds, with wood and water plentiful, e Alaneh Dereh, especially about Balassān (m. 28½). bile force, such as mounted infantry unhampered by pack-
	Alaneh	or guns, could do it comfortably in two days, halting in the Dereh.
	Miles from Rowan- duz	
	0	Rowanduz. Direction SW. Track rough, paved with cobble stones.
	11/2	Serderiyeh Pass? If correctly placed, this cannot be
	A Province	identical with the pass mentioned under the same name in Route 45 a, m. $83\frac{1}{4}$.
	. 3?	Kanikhur, 60 houses of Rowanduz Kurds on r.
		The Kalant Su in a deep gorge on l. The track descends into a valley where two streams meet
		and follows that on the r., the Nergir Chai , up a narrow rocky gorge, well wooded. Ascent steep and difficult.
		Enter an amphitheatre of perpendicular cliffs and ascend a shaly spur covered with oak scrub.
	8	Bejān Pass, 5,325 ft. Long descent begins. Oak forest
		on the hill-sides. The pass is very difficult in places and hardly passable for pack-animals.
	$9\frac{1}{2}$	Bejān Qal'ah, ruins of a large mud fort, on l.
		Cross a valley and descend along flat stony spur among oak trees.
	14	Reach the Alaneh Dereh and turn l. round a spur.
	15	Mill and shrine. Cross a swift stream in a rocky bed, the Bila Su (unfordable November 1902), by a wooden bridge on three stone piers 15 ft. by 2 ft., 10 ft. above the stream.
		Track now runs roughly S. parallel to the general direction of the Alaneh Dereh. Cross a succession of sparsely wooded spurs running from the Kurek Dāgh.
	17	Pass through a ziyāret and burial-ground.
	$17\frac{1}{2}$	Benāwi, about 20 houses of Haruti Kurds (alt. 3,900 ft.). Descend towards the centre of the valley across spurs.
	20	Oaks give place to stony fields. Tarawa, small Haruti village ¹ / ₄ m. to l.
	21	Track from Khān-i-Batman joins the present track here.
	21	Skirt the steep, bare hills which enclose the Alaneh Dereh on the W. A track to Shakhlawa (about 7 hrs.) leads
	22	across a depression in these hills. Sartikan, village of Haruti Kurds, 1 m. to l.
HALL		The state of the s



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			(138)
		ROUTE 44 a	271
3	liles from		
	duz	Ashkafka, village of Haruti Kurds, 1 m. to 1.	In this
	$22\frac{3}{4}$	neighbourhood is the boundary between the	
		Rowanduz and Köi Sanjaq.	
	231	Khata, village of Mīr Makhmali Kurds, 3 m. to	l.
	251	Tutma, village of Mīr Makhmali Kurds, $\frac{3}{4}$ m. to	
	- 4	Track leaves the Alaneh Dereh and begins asc	ent of an
		outlier from the Kurek Dāgh.	
	28	Cross spur overlooking a fertile valley called	Desnt-1-
	001	Balassāni.	usos Tho
	$28\frac{1}{2}$	Balassān (Badissān?), stragglingvillage of 200 ho eastern portion belongs to Mīr Yusufi Kurds, th	
		to Mir Makhmali (1902). A stream, the Khudr	ān. passes
		through the village and down the valley. Su	rrounding
		area well wooded, with orchards and vineyards	
		The village of Berawa (Mīr Yusufi Kurds) lies	
		and the villages of Daraj (Mir Makhmali K	
		Chiwa (Pishghelli Kurds) lie to SW. or S. A	
		of 1902 and 1912 differ as to their exact position	
		position of villages in this neighbourhood is kn	own to be
		liable to change. Track now crosses the Desht-i-Balassāni.	
	301	Cross a spur and enter the Keshan Dereh, a	n eastern
	002	bifurcation of the Alaneh Dereh. It is a narr	
		some 7 m. long, finally opening into the Raniy	
		It soon narrows to about $\frac{3}{4}$ m., and continues	
	24	breadth.	
	31	Cross a stream from a gorge to the l. A track	
	991	this gorge over the hills to Betwata (see below).
	$33\frac{1}{2}$	Malok, 20 houses of Pishghelli Kurds. Follow rocky path along hill-side.	
	35	Warra, 40 houses of Pishghelli Kurds.	
	371	Nuwāweh, 30 houses of Pishghelli Kurds.	
	4	Valley here 500 yds. wide. Track continues	down the
		Keshān Dereh by a stony path winding am	
	10 .	spurs sparsely covered with trees.	Will conduct the same
	40	Reach Raniyeh Plain. Leave the Khudran and	keep more
	42	to the E.	1:1
	42	Cross a stream in a ravine full of boulders. In	high water
		this stream would be difficult to ford.	he foot of
		Sari Kāni and Angos, Pishghelli villages at the hills about 1½ m. to 1.	He 1001 01
		the mins about 12 m. to 1.	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ " [٢٧٢] (٢٣٦/٢٨١)

272	LAND ROUTES
Miles from	
duz 42 <u>1</u>	Betwata appears in sight, up a gorge due N. Residence
124	of Ahmed Bey, chief of the Pishghelli Kurds (1902).
123	Continue across the plain. Going easy, but stony.
$45\frac{1}{2}$	Sari Chāwi, a Bilbass village. Residence of Mohammed Agha of the Pirān section (1902). Large spring just
	before entering the village and from it a river flows SW.
	across the plain to join the Khudrān. Road turns nearly S. to avoid outlying spurs.
463	Tilleh, village of Pirān Kurds at foot of a mound on r.
471	Turn to l. round spur.
$47\frac{3}{4}$	Pass mouth of narrow valley running into the hills. In it are a few hamlets of Ako Kurds.
$48\frac{3}{4}$	Cross a bed of shingle and boulders \(\frac{1}{4} \) m. wide.
	Stream 4 yds. wide, not everywhere fordable (November 1902), flowing down the middle of the bed.
	Follow direction of a low range on 1. which juts out into
51	the Raniyeh Plain. Turn to l. and ascend slope towards a gap (alt. 2,125 ft.)
0.1	in the range. Here join the road across the plain from
	Köi Sanjaq to Raniyeh. Rough undulating road,
	unfenced and crossing fields, but fit for wheels. Direction NE. by E.
$53\frac{1}{2}$	Raniyeh.
	ROUTE 44 b
	ROWANDUZ—RANIYEH (53 m.)
	Via Khata, with Branch to Köi Sanjaq
Authorities	:-Lorimer, Report on a Tour in Persian Arabia and Kurdistan, April-May 1910, from native information; Hony, map of route, 1912.
	is said to be the easiest route between Rowanduz and
	, and is apparently not liable to be blocked by snow like the irect'(?) routes. The distances are very uncertain. It is not
clear ho	w far this route differs from Route 44 a; thus Sarwisāweh
may be	identical with Sari Chāwi (m. 45½ above).
Rowan- duz	
0	Rowanduz (alt. 2,200 ft.). Cross Derbend 'Ali Bey (alt.
14	5,800 ft.?). (7 hrs.) Benāwi .



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٣٧٣] (٢٨٢/٢٣٤)

	DOLLADO 11	979	
	ROUTES 44 a, b, c	273	
Miles from Rowan- duz			
16?	(8 hrs.) Khata. The track bifurcates here, the branch going to Siktan (15 hrs.) and		
	(20 hrs.; 44 m.?). Track now easy along a	valley.	
32	(15 hrs.) Chiwa. Track still easy. Apparer route to Köi Sanjaq diverges here to r.	ntly another	
	(21 hrs.) Sarwisāweh. Track now over a pla	in.	
53	$(24\frac{1}{2} \text{ hrs.})$ Raniyeh.		
	ROUTE 44 c		
	RANIYEH—ROWANDUZ (53 m.)		
	Via the Nalkewan Valley		
Authorities :-	-Military Report on E.T.A., vol. iii, Route 114 (report of Dar-ul-Islam (journey of 1903).	1888); Sykes,	
	ute is simply a mule-track for most of its le		
	h going at many points. It is closed by an Pass for three months in the year. Water		
but suppli plentiful e	es scarce, except in the first and last few mil xcept between m. 20 and m. 30.		
Miles from Raniyeh		,,	
	Raniyeh (alt. 1,245 ft.). Ascend a wide gras a broad track.	sy valley by	
21/4	Skirt some rocky spurs from the r. The value about $\frac{3}{4}$ m.	ley narrows	
]	Rocky spur to r.		
	The ridge, of vertical sheets of rock, rises 1,00 r. To l. the hills are also rugged, but mo		
	Valley narrower and more stony as ascen	nt is made.	
	Dalaran, Zebān, and Hājireh, small villag ridge to r.	es along the	
4½]	Pass gap in the ridge to 1., 300 yds. wide an		
The same of	through which flows the Serkupkan Su , 50 18 in. deep (May 1888), over a stony bed 2	00-300 yds.	1
	wide. It enters the upper part of the Ran and joins the Khudrān there. A large irriga		
	takes water in the direction of Raniyeh.	Teraban is a	
MES. III	small village at the mouth of the gap.		



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274	LAND ROUTES
Miles from Raniyeh	Follow stony track 10-12 ft. wide up the Serkupkan Su.
$5\frac{1}{2}$	Rocky spurs from either side. The river becomes a torrent among boulders.
61/2	Berkhoused, 50 houses, on the river.
$7\frac{1}{4}$	Groves of mulberry and a few sycamore and ash trees by the stream. Alt. 1,653 ft. The hills to the r. are covered with low oaks and brushwood.
834	Follow a narrow mule-track among large stones and boulders.
91/2	Wheat and tobacco cultivation on terraces in the hill-side. Valley 50-80 yds. wide; rough stony track in the streambed for a short way.
$9\frac{3}{4}$	Ford to r. bank of stream, 20 yds. wide and $1-1\frac{1}{2}$ ft. deep (May) over gravel. The track is generally a good 8 ft. ledge 50-60 ft. above the
	stream, narrow in places.
11	Craggy wooded ravine with small stream from high rugged hills to N.
$11\frac{1}{2}$	Broad easy track; cultivation in terraces dotted with oak and mulberry trees. Kāni Benao, large spring, and village of same name
	to r. The razor-edged ridge which skirts the E. side of the valley of Raniyeh ends abruptly here, and gives place to rounded spurs from Qandīl Dāgh. These are thickly covered with fine oaks. Narrow ravines in the rocky ridge to W.
$12 \\ 12\frac{1}{4}$	Along stream-bed, winding among boulders. Stream divides, the larger branch going N. Track follows the smaller NW. Another track, 2 hrs. longer, leads up the larger branch, also to the Gurmanjan Pass (see below, m. $25\frac{1}{2}$).
$13\frac{1}{2}$	Burzungeh, straggling village, mostly on the r. bank of the stream (4 hrs. 25 min. from Raniyeh). Rich soil, cultivated in terraces. Vines, walnuts, figst mulberries, pomegranates.
	Path narrow and obstructed with trailing vines. Several small springs. The ridge to W. is steep and rocky of conglomerate and boulders, while the summit is perpendicular wall of rock 200-300 ft. high. Dera an
141/4	Burt Khra are other villages in the valley. Rough steep track in and out of a ravine from the W.



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		(140)
	ROUTE 44 c	275
Miles from		
Raniyeh	Ruined fort 50 yds. to l. with solid masonry wall	s and
	round flanking towers at the corners.	
$15\frac{1}{2}$	Cross another ravine, along a rough ledge. Through oaks and across a narrow craggy valley fro	m the
$16\frac{1}{2}$	l. Some walnut trees by the stream.	III tile
17	Golan, scattered village on small terraces on the hil	l-side.
	(About 6 hrs. from Raniyeh.)	
	Figs, mulberries, walnuts, and vines. Tobacco grollarge quantities. Coarse silk is produced. Large	wn in herds
	of cattle, sheep, and goats. Good grass in spring.	nords
	Above the village the slopes are bare and craggy,	culmi-
	nating in a wall of rock over which no path can be t	raced.
	Ascend a narrow track on the hill-side. Cross a small ravine with stream from W., and th	rough
	a large grove of walnuts.	
$17\frac{3}{4}$	Cross bed of a torrent (dry in May) among bou	ılders.
193	Gradient steeper. Follow a narrow 3-4 ft. ledge, ascending a small V-s	haned
$18\frac{3}{4}$	valley.	mapeu
$19\frac{1}{2}$	Easy track in clay slope, through low oak wood.	
$20\frac{3}{4}$	Gurmanjan Dagh, a rocky ridge to l. Lower slop	es are
	steep clay, the summit a perpendicular face of 400-500 ft. high.	rock
	Trees gradually disappear (alt. 4,656 ft.). Only st	tunted
244	pear and fig trees and gum tragacanth above this h	
$21\frac{3}{4}$	Head of valley. Good broad track, nearly level.	
221?	Gurmanjan Dāgh ¼ m. to l. Large spring. Wide basin, 6-8 m. in diameter to r.	It is
2.1.7	shut in by snowy spurs from the Nuchewan and Q	andil
	Dagh, and cut up by several deep valleys, with	well-
	wooded slopes, drawing towards the head of the Valley and Serkupkan Su.	Snaur
	Round the head of a wooded valley following a	ledge
	4-6 ft. wide. Steep wall of rock 300 ft. high to 1.	
	Rough narrow track for 100 yds. among boulders or the bed of a rayine.	ossing
251	Turn sharp up hill-side to l. by a steep rough track he	eading
2	for a gap in the ridge of the Gurmanjan Dāgh. S	everal
	small springs in the hill-side. Kurdish encampment	ts may
	be seen. Gradient steeper to the summit, ascending by short z	riozace
	among boulders and stones, along a 2-3 ft. ledge.	nguago
	s 2	



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276	LAND ROUTES
Miles from Raniyeh	
271/4	Summit, 5,940 ft. This pass is closed for three months in the year, from the middle of December to the middle of
	March, by 3-4 ft. of snow. Steep range to E., a long spur from the Qandīl Dāgh called the Nuchewan of Nellawan Dāgh
	Nalkewan Dāgh. Good grass in the uplands in summer.
27½	Large spring. Descend a bare stony valley, 300-400 yds.
	wide, bordered by rocky ridges.
	Track follows a stream formed by the overflow of the spring.
31½	Cross stream from a narrow gorge on l. which rises in
	a high ridge $\frac{1}{2}$ m. distant. Very rough going. Alt. 5,380 ft.
321/4	Cross another ravine from 1.
A STATE OF THE STA	Follow a narrow 2–3 ft. ledge for $\frac{1}{2}$ m. The stream is below to r. A few low shrubs and trees.
32½	Descend by short steep zigzags into the stream-bed.
99	Rough going.
$\frac{33}{34\frac{1}{2}}$	Bend to l., crossing a valley from the SW. with a stream. Valley now 600 yds. wide, bordered by crags. It is now
312	called Nalkewan Valley.
	Distances very doubtful.
	Follow a path through a thicket. Grass more plentiful,
361	and trees larger as descent is made. Cross mouth of ravine from 1.
302	Valley now 400–500 yds. wide.
$36\frac{3}{4}$	Ascend a neck, leaving the stream, which enters a narrow
971	wooded gorge. Easy gradient, but rough track.
$37\frac{1}{2}$	Summit of small col, 5,210 ft. Enter another valley 300-400 yds. wide.
$38\frac{1}{2}$	Descend through thick forest with much underwood. Track obstructed by boulders. Valley 100 yds. broad. Track
903	follows a stream-bed.
	Alt. 4,620 ft. Better going. Round a spur from the r.
	Traverse a forest of fine oaks. Some pears, hawthorns, and
	low shrub. Good grass. Valley 200 yds. wide. The
	range to r. is more sloping than that to l., which consists of vertical sheets of limestone cut up by craggy
	glens.
411/2	Round craggy spurs from l. Valley gradually opens out.
42	Cross rocky spur. Alt. 3,770 ft. Valley \(\frac{3}{4} \) m. wide.



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٧٧٧] (٢٨٢/٢٣٤)

		141)
	ROUTE 44 c 277	
Miles from 1		
Miles from Raniyeh	m at the d and well defined even clev and shale on W	
	Track broad and well defined over clay and shale, on W. side of the valley, undulating over low spurs. Follow	
	stream in rocky bed 400-500 yds. to r.	
423	Valley now $\frac{3}{4}-1$ m. wide. Wheat and vine cultivation.	
124	Broad 20 ft. track.	
43	Round a low mound.	
	Gurrawan, 50 houses, at the mouth of a rocky gorge	
	through which a large stream emerges. This runs up	
	3 m., and opens out laterally 3 m. each way, forming the upper valley of Gurrawan, in which some villages	
	are seen high up the mountain, with cultivation and	
	vineyards.	
	Terraced cornfields and vineyards along the stream. Fruit	
	trees include pears, apricots, apples, plums, and mul-	
	berries.	
	Opposite is the valley of Guillau. Through a narrow gorge can be seen a huge basin, 3 m. in diameter, shut in by	
	a perpendicular wall of rock at the top.	
	Large stream through the gorge.	
	Broad track, 12–15 ft. wide, between low stone walls.	
	Remaining distances uncertain.	
444	Cross a stream from craggy ravines to W. Alt. 3,180 ft.	
45	Descend by a narrow 2-3 ft. ledge in the soft shale for $\frac{1}{2}$ m. Through vineyards and cultivation. Track now 12-15 ft.	
40	wide. Alt. 2,805 ft.	
451	Bend 500 yds. to W., and cross a gorge from the SW.	
4	similar to Gurrawān.	
$45\frac{3}{4}$	Stream cuts through a gorge $\frac{1}{2}$ m. long, bordered by cliffs	
	60 ft. high. Ascend spur to 1. through thinly wooded	
461	stream amounts from garge and enters a flet greesy velley	
102	Stream emerges from gorge and enters a flat grassy valley 500-600 yds. wide.	
	Skirt foot of flat-topped spur forming a sort of barrier across	
	the valley: masonry watch-tower on the end of it, now	
102	in ruins.	
$46\frac{3}{4}$	Bend 400 yds. to 1., crossing a large stream from a gorge	
	to W., up which an elevated plateau is visible. At the	
	mouth of the gorge is Firkeari , 100 houses (alt. 2,500 ft.). This point is given in the <i>Mil. Report</i> as 13 m. beyond	
	Gurrawān, but the time is only 1 hr. 19 min. from	
	reaching that point.	
	Along stream-bank are terraces of orchards and vineyards.	



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278	LAND ROUTES
Miles from Raniyeh	
48	Skirt stony spur, and cross ravine with stream from W. One track fords the river (here 30 ft. wide, 2 ft. deep in May) to avoid this stony part.
48½	Down the flat, grassy border of the river, here 400 yds broad.
49	Valley opens out to about 1 m. Cultivation, but bare of trees, except a few stunted oaks.
$50\frac{1}{2}$	Valley sloping up to the Kurek Dāgh to SW., culminating in craggy ravines: a large stream comes down it. Ascend a rounded ridge by a zigzag stony track. The river pierces this ridge in a gorge 80–100 yds. wide bordered by cliffs 500–600 ft. high. This is the Kalūn Gorge, and skirts the S. side of Rowanduz.
511/4	Follow a track 15 ft. broad, crossing a ravine with a water fall. Kānikhur , 60 houses, among orchards, is up this valley to l. The ascent was once paved, and the stone
521/2	are now slippery. Skirt the l. side of the gardens of Qal'ah Teluk on the heigh above Rowanduz, a few yards from the edge of the gorge River 400 ft. below. Track may here coincide with tha followed in <i>Route</i> 44 a (beginning).
53	Descend slippery paved road into Rowanduz. (Mil. Report places Rowanduz 20 m. beyon Firkeari, but the time is only 2 hrs. 3 min.)
	ROUTE 45 a
	MOSUL—ROWANDUZ (89½ M.)
	Via 'AQREH AND QANDIL FERRY
Authorities:	Lorimer, Report of a Tour in Turkish Arabia and Kurdistan, April-May Military Report on E.T.A., vol. iii, Route 118, m. 1-1934 (report of 1888).
Barda Re The last Rowandu	oute may have been passable for wheels in 1910 as far as sh, but was apparently a mule-track for most of its length 7 m. before reaching Rowanduz in the gorge of the Z Chai were very bad. But it is reported (1916) that the Harīr, near m. $72\frac{1}{2}$, to Rowanduz has been made passable ls. See also under m. $22\frac{1}{2}$.



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	ROUTES 44 c 45 a 279
	10001110, 100
The cl	nief obstacle is the passage of the Zāb, and difficulty might
	ienced at the ford over the Ghāzir (m. 18) and the bridge Khālifān.
No def	inite information as to supplies, &c. Water seems plentiful.
The di	stances given below are calculated mainly from Lorimer's
	nd are doubtful.
Su	mmary of Lorimer's times on the way from Rowanduz to Mosul.
	Travellers. Baggage.
Rowan	duz to Ashkhar About 7 hrs. 9½ hrs. ar to Qandīl Ferry 1 hr. 53 min.
Qandīl	Ferry to 'Aqreh About 7 hrs. ?
Aqreh Barda	to Barda Resh Shrs. 31 min. Resh to Mosul Uncertain. (Some con- A led horse took
Miles from	fusion in the text.) 11 hrs.
Mosul ()	Mosul. Cross boat-bridge and pass.
$5\frac{1}{2}$	Gogjali village, 80 houses of Bazwan Turkomans, on the r.
8	Ba Zuwāyeh village, 60 houses of Turkomans, about $\frac{3}{4}$ m. to r. N. by E. is the beginning of the Naorān ridge,
	and N. by W., 1½ m. off, Upper Tahrawa , 40 Turkoman
	houses. NNW. about 1 m. away is Lower Tahrawa , 15 Turkoman houses.
91/2	Small, light-coloured mound 300 yds. to l. Naoran Hills
	5-6 m. away. Terjilleh village, 30 Turkoman houses, about 1 m. to N. (Another village of the same name
	appears to lie some miles SE.) Derwishi , 50 houses,
101	about 2 m. NNW. Topezaweh, 50 houses, 600 yds. to r. General direction
$10\frac{1}{4}$	now NE. by E.
1114	Mound on l. Behind the mound is Tiz Kharābeh, 60 houses
$12\frac{1}{2}$	of Shabak Turkomans. Imām 'Ali Riza, shrine built of round stones and mortar,
	with a dome, on the r.
13 14	Bir Hellān, village of 15 houses of Kurds and Arabs, on l. Top of the high land joining the Maqlūb Hills to NNW.,
	and the Zardak ('Ain es-Safrā) Hills to SSW. The Jebel
	Naorān, divided by a valley from Jebel Maqlūb, lie between NNW. and WNW. Several villages on the
101	slope of Maqlūb. General direction E. by N.
$\frac{16\frac{1}{2}}{17}$	Track touches a bend of the Ghāzir on the r. Seikāni village, 40 houses of Bōt Kurds, 1½ m. to l. in the
	direction of Jebel Maqlub.



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280	LAND ROUTES
	es from
M	osul
9:	Qadisiyeh, 20 houses of Bot Kurds The river is 50
	broad and in places of it, deep, with a fairly of
	to SW. 1 m. S. on the l. bank of the Ghāzir is Dusera village. 50 houses of Bōt Kurds. Wheat and barley
	curivation.
	Track crosses ravine with a small stream.
	Top of Zirg Barda Resh. This ridge runs to the Great Zāb. Kāni Zerdek, reddish hill to SW. Deep V-shaped gorge called Bāzai in the hills to N.
2	Barda Resh Walad, 60 houses of Achair Saba, &c. A
	mudir is stationed here. 3 m. to l. is Barda Resh
	Tunus, 50 houses, and 1 m. to r. Khailaki, 50 houses
	All these villages are on the same low hills which join on to the Jebel Maqlūb. (W.O. Map 33 (1916) shows carriage-
	road from Barda Resh Yūnus direct to Qandīl.
	Track crosses a stream, and, shortly after, a second. General direction N. by E.
1	Mound on r. Pond on l. This place is called Qara Bey.
	Track follows a marshy stream on r. Direction NE, by E
	This district is notoriously unhealthy, and hot and steamy even in May. Going difficult owing to luxuriant vegetation.
2	Mamōzin, mound 30 ft. high on r. Strong clear spring with a few willows close to the marshy stream. Just
	beyond the mound is another smaller spring which feeds the stream.
1	General direction changes from NE. by E. to NE.
202	Clear pond formed by springs and containing fish. It is surrounded by grassy slopes and its overflow goes S. or E.
	to the plain as a small stream. Jūjar Tepeh, mound, $\frac{3}{4}$ m. to l.
	Jūjar Tepeh, mound, $\frac{3}{4}$ m. to l. Dostak, 20 houses 2 m. SSE.
	Track now lies over high country with barley cultivation.
2	Jūjar Kebīr, 50 houses ½ m. to N. Jūjar Saghīr, 20
	nouses 500 yds. SE., inhabited by Achair Saba Kurds.
2	Rawiyeh fort on a mound $\frac{1}{2}$ m. to l. It belonged to Ismā'il Agha, a chief of the Gaiz Kurds (1910). Rice cultivation.
	There is also a village of 60 houses inhabited by mixed
oss.	Kurds. To NW. and WNW. is a great open plain with mounds and villages.
1	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٢٨١] (٢٣٢/٢٩٠)

	(143)	
	ROUTE 45 a 281	
Miles from Mosul		
293	Track approaches the Kāni Karwān River. The valley is	
01	also called by this name. Cross the Serderiyeh , a tributary of the Kāni Karwān.	
31	Shingle bed 60 yds. wide. Water in May 1910 only	
	3 yds. wide and 6 in. deep. On the opposite side of the	
1	Kāni Karwān are two mills driven by an artificial stream.	
$31\frac{1}{2}$	Valley bends from E. or ESE. to NE. The hills on either side become higher. Some cultivation.	
331/4	Encampments of Hakki Kurds seen in 1910 in this neigh-	
4	bourhood. These Kurds are said to number about 700	
0.4	tents and have scores of mares and young stock.	
$\frac{34}{35\frac{1}{2}}$	Green mound in the middle of the valley. Track passes out of the Kāni Karwān Valley, between a hill	
002	called Jebel Surchi and a detached portion of it.	
39	Shakhlawa Hills to SE. by E. Rough and stony path,	
41	mostly up-hill. 'Agreh. $5\frac{1}{2}$ hrs. from Barda Resh.	
- 11	adjen. 02 ms. nom Datus rosn.	
	According to native information an alternative route from 'Aqreh to Rowanduz goes by Rizān ferry. This track crosses broken country	
	with two bad hills to Birch Kafra, about 7 hrs. from 'Aqreh. From	
	there about 3 hrs. easy going takes one to a raft ferry across the Zāb at Rizān. The next 3 hrs. are steep and stony and mostly	
	up-hill to Baibarun, from which the road is difficult for about	
	8 hrs. to Sheitāneh , a place which grows good tobacco. From Sheitāneh the road is fairly easy, through hills, to Rowanduz about	
	5 hrs. farther on. These times appear to be at the rate of $2-2\frac{1}{2}$ m.p.h.	
	The track now descends a long stony gully and crosses	
44	a swift stream.	
11	Jodah, village consisting partly of caves, on the 1.: about 15 houses of Surchi Kurds.	
$45\frac{3}{4}$	Track crosses a clear stream, 10 yds. wide, 1 ft. deep (May	
	1910). This stream emerges from a tremendous cleft in	
$46\frac{1}{4}$	the hills on the l. Zinteh village, 15 houses of Surchi Kurds.	
$49\frac{3}{4}$	Begil village, 80 houses of Surchi Kurds piled up one above	
220 50	another on the hill-side. The place is divided into two	
	parts by a great ravine in which is a waterfall. On the E. side of the village is a smaller ravine with a water-mill	
	in a cave.	
	There is not much cultivation, but fruit, especially the fig,	
	is luxuriant.	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ " [٢٨٢] (٢٣٢/٢٩١)

282	LAND ROUTES
Miles from	
Mosul	There is here a long, low qasr, with two tiers of loopholes,
	on the top of a rock on the W. side of the large ravine.
51½	40 houses of Surchi Kurds on the l. above the road.
The state of	Cross the wooded Begil ravine by a narrow stone bridge
F02	without parapets.
$53\frac{3}{4}$	For 3 or 4 m. now the track runs up and down across
	valleys with small, clear streams. Gulsair village, 150 houses of Surchi Kurds, on the hills
	to the r.
$54\frac{3}{4}$	Ruined castle on the l. Near it is the village of Qal'atel
	(60 houses of Surchi Kurds).
$58\frac{3}{4}$	Susnaweh village, 30 houses of Surchi Kurds, on the outer
	slope of a range of hills, possibly a continuation of the Harīr Hills, running towards the Great Zāb.
	The track now winds along watersheds between complicated
	valley systems, all apparently draining into the Great
	Zāb. In places the track is steep and narrow, but quite
	passable for horses. The hills are a gravelly conglomerate
001	covered with grass and clover.
$63\frac{1}{4}$	Qandīl ferry. In 1910 there was only one kelek, of 18 skins. In l.w. the river is fordable a little way below the
	ferry. Breadth of the river here (in May 1910) 150 yds.
	rate of current 6 m.p.h. Flocks and herds in the neigh
	bourhood.
	Astriland , 20 houses of Surchi Kurds, $\frac{1}{2} - \frac{3}{4}$ m. down-stream
	The position of the ferry seems liable to alteration according to the state of the river.
	Track runs along cliffs for about 1 m.
64	Cross a small stream running down a gully to the river.
$64\frac{1}{4}$	Qandīl village, four or five houses of Surchi Kurds, with a
	fruit garden containing figs, vines, &c. Some cultivation
67	by nomads. Pass Bārzīn, 20 houses of Surchi Kurds; steepest part of
0.	ascent from river hereabouts.
$68\frac{3}{4}$	Ashkhar camping-ground, a grassy but stony plain, which
	seems to be frequented by nomad Kurds.
15 (1995)	1-2 m. NNW. the Great Zāb issues through a gorge in the
69½	hills. Track enters the hills by a gap in the outer range. Grave-
002	Track enters the hills by a gap in the outer range. Grave- yard and a grove of trees near.
	Ashkaftu village, seven houses of Surchi Kurds.
71	Cross a transverse watershed. Track now runs down-hill,



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٢٨٣] (٢٩٢/٢٩٤)

	. (144)	1
	ROUTE 45 a 283	
Miles from		
Mosul	through a green but almost treeless valley which forms	
*	a trough between an outer range of hills and the Harīr	
	range.	
721/4	Stony ascent begins. Cross a ravine which comes down from the l.	
791	Near Harir, from which a cart-road now runs (1916) to	
$72\frac{1}{2}$	Rowanduz, route joins Route 45 b (m. 72).	
731/2	A track from Bātās joins (see Route 43 a).	
$73\frac{3}{4}$	Cross a pass called Spīlik. From here the Kurek Dāgh is	
	about E. 'Ali Bey gorge (see below) is E. by N.	
74	Kurek Dāgh is now E. by S. The track winds among and over hills well wooded with oaks, crossing several small	
200	streams. General direction ESE.	
741/2	Oarakhin village, 12 houses of Surchi Kurds, ½ m. to l.	
2	above the track on the farther side of a brook running	
neith to the	down to join a stream at the bottom of the valley on	
TE3	the r. Route 43 b apparently joins near here. Leave the valley and cross the watershed. General direction	
$75\frac{3}{4}$	still ESE.	
76	Kurek Dāgh now bears E.	
771	Khān-i-Batman, 20 houses of mixed Kurds, ½ m. to N.	
	Possibly identical with Kani Othman mentioned in	
	a report of 1888. Track descends a valley through	
78	which a stream flows to join the Khalīfān (see below). Pass a Kurdish graveyard and a fine grove of oaks.	BEE BY
10	'Ali Bey gorge 1 m. ENE. Track emerges from the hills.	BUILT
80	Cham-i-Khalīfān, open camping-ground.	MEIN
	Khalīfān village, seven houses, on the opposite side of the	
	Khalifan stream.	1111111
	The track now runs for over 2 m. down the gorge of the	1000
	Khalīfān, here called the Gali 'Ali Bey. A report of 1888 describes the upper end of the gorge as	
	30 yds. wide, but it broadens to 50 yds. a short distance	10 15
	on. River a rapid torrent. Road close to water's edge.	1011
000	Height of cliffs increases.	-
$80\frac{3}{4}$	About 13 min. from Khalīfān village, cross wooden bridge	
	of three spans with masonry piers. Bridge (in 1888)	
	35 yds. long, with 10-ft. roadway. In 1910 its upper structure consisted of strong timbers overlaid with earth	11116
	and brushwood. It had no parapets.	
81	Round rocky spur by good 12-ft. road (1888) among	
	enormous boulders.	
		10 10



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٢٨٤] (٣٢/٢٩٣)

284	LAND ROUTES
Miles from	
Mosul	D 1 1100 000 000 00 1111
$81\frac{3}{4}$	Border cliffs 250-300 ft. high; valley 200-250 yds. wide.
	In 1888 the track passed along river bed for 50 yds. through
	2 ft. of water round spur. This is not mentioned in the report of 1910.
821	Lablai waterfall. It is not possible to get a satisfactory
ol (Stell	view of it from the track. The fall is very high, and the
	water pours over undivided.
	Towards the end of the gorge the valley is 300 yds. wide,
	with cliffs 400-500 ft. high on either side. The river
	is 10 yds. wide, 3-6 ft. deep, with a rapid current over
	boulders. The road, in 1888, was an easy track 12-15
	ft. broad following the r. bank, generally 50 ft. above the water. It sometimes wound round boulders fallen
tot m	from cliff above. Portions of it are paved. The banks
a serious	of the river are wooded with oaks, sycamores, and shrubs
831	The Khalifan River joins the Rowanduz Chai near this
	point. The gorge at the Rowanduz Chai is generally
	30-40 yds. wide at the bottom, though sometimes it
	narrows to as many feet. The hill-sides are covered with low oak and brushwood. Precipies 1 500 ft. hill
11 25	with low oak and brushwood. Precipices 1,500 ft. high on either side of the valley. The track now winds
mi ham	steeply up-hill, often over very bad surface. The rock
Ti Strain Lie	is hard and slippery where worn smooth. Parts of
- Imile	the road (which in 1888 was 6-10 ft. wide) were de-
are de la fi	scribed in 1910 as cobbled and ridged across at intervals
	of 2-3 yds., the packing between consisting of large
ed kins	unshaped stones of $\frac{1}{2}$ -1 cubic foot in size. It was reported in 1888 that this made ascent was $3\frac{3}{4}$ m. in
	length, and was called the Serderiyeh Pass. In 1910
and the se	the made ascent seems to have been less long (it took
	between 40 min. and 1 hr. to walk down it): and it
	crossed the shoulder of the Kurek Dāgh by a pass called
.000	Darakasab. Apparently the road described in 1888
	crossed the Kurek Dāgh higher up its slope. See note at end of route. As regards the name Serderiyeh, see
and the same	Route 44 a, m. $1\frac{1}{2}$. There is no information as to the line
051	of the new cart-road (1916).
$85\frac{3}{4}$	Pass called Darakasab, a shoulder of Kurek Dagh. Bala-
11/4/11/2011	Kyan Hill 2 m. to N. The track descends by a bad path
parame 1	about 400 ft. into the bed of the Kānijuz ravine or valley
	which opens through a gap on the l. of the track into the gorge of the Rowanduz Chai.



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٢٨٥] (١٩٢/٢٩٤)

	(145)	
	ROUTES 45 a, b 285	
Miles from Mosul 8834	Cross a stream and ascend steeply about 300 ft. up the other side of the ravine. Gardagard Pass. Balakyan Hill is now $1\frac{1}{2}$ m. to NW., just above the gorge of the Rowanduz Chai and just beyond it. Peak of Kurek Dāgh $1\frac{1}{2}$ m. WSW. The track now descends to Rowanduz. Rowanduz.	
In 1888 riyeh Pas Darakasab longer than	the following track led from Rowanduz to the summit of the Serdes (m. $83\frac{1}{4}$). Its relation to the track described above between and Rowanduz cannot be exactly determined. The time is 64 min. a Lorimer's time from Rowanduz to Darakasab.	
Hrs. min. 0 0 0 19	Rowanduz (alt. 1,500 ft.). Ascend. Summit of ridge over town. Alt. 2,260 ft. Skirt gardens and orchards well fenced; follow a good metalled road 15 ft. wide for a short distance. T. L. to Mosul here near road, but diverges later.	
0 23 0 33 0 48 1 3 1 8	Qal'ah Teluk, 50 scattered houses. 30-ft. track between ridges. Spring on summit, but the water is not so good as that of the river. Along broad stone track, ascending a rounded ridge. Khanikhur, 60 huts, \(\frac{1}{4}\) m. to l. in orchards and vineyards. Cross ridge over shaly rock. Alt. 2,880 ft. Short stony zigzag, 6 ft. wide, descending a shale slope for 200 yds. Alt. 2,580 ft. Foot of steep slope, followed by gentler gradient. Descend into valley with a stream which breaks through a narrow rift barely 30 yds. across into the gorge of the Rowanduz Chai to r. (This seems to be the Kānijuz ravine mentioned above.) Track follows a 3-6 ft. ledge along a small stream, but could be widened. Sharp limestone ridge 500 yds. to r. Good track in bottom of valley. Then ascend steep slope. Alt. 2,945 ft. (Summit of?) Kurek Dāgh, 3 m. to l.: low trees and brushwood near summit. Reach end of ascent after a long pull up steep stony track. Alt. 3,215 ft. Top of Serderiyeh Pass (see under m. 83\frac{1}{4}).	
	ROUTE 45 b	
Author	MOSUL—ROWANDUZ (89 m.) Via Girdamamik	
This r'Ain es-S	oute apparently crosses the col between the Maqlūb and afrā Hills some distance N. of Route 45 a, and then passes b. of that route near Dusera. Thence it runs to the	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٢٨٦] (٥٩٢/٢٩٥)

enter the mounds of Nineveh. Pass Qoyunjiq on 1, and Nebi Yūnus on r. Cross the Khizir, 12 ft. broad, 6 in. deep in October 1886. Emerge on open undulating plain with light gravelly soil growing good wheat crops. Follow a well-defined broad track. 4½ Pass Arpajiyeh, small Moslem village, with good water from wells 20 ft. below surface. Pass Kolan Tepeh, Ba Zuwāyeh (?), and Gurigharībān, and through Qara Tepeh, a Shabbakh village. Pass Derāwish and Ba Jerboa. Basheikha at the foot of some bare outliers from Jebel Maqlūb to NE. Ba Hazeineh, 200 houses, ½ m. to W. The inhabitants were mostly Yezidis in 1886, with some Christians. Several Yezidi shrines on the hill near. A large stream runs through the place, irrigating gardens lower down. Track now keeps E. through a wide gap between the Jebel Maqlūb on the N. and the Jebel 'Ain es-Safrā (Sari Bulāq Dāgh) on the S. 21? Cross a col by the ruined khan of Dubardan. (Distance from Basheikha 15½ m. according to Mil. Report; apparently exaggerated.) Sheikh Mutti monastery to N. up the slope of Jebel Maqlūb. A few Shabbakh villages near the top of the col. Country passable for wheels. Descend over easy country, ford the Ghāzir Su, and pass through Dusera on the l. bank. In this neighbourhood route crosses to S. of Route 45 a. Cross low ridge and reach Girda pan in a basin draining into the Ghāzir Su. Cross another ridge and descend to the Great Zāb. Cross the Great Zāb by a ferry.	286	LAND ROUTES
Mosul. Cross to r. bank of Tigris by the boat-bridge and enter the mounds of Nineveh. Pass Qoyunjiq on l., and Nebi Yānus on r. Cross the Khizir, 12 ft. broad, 6 in. deep in October 1886. Emerge on open undulating plain with light gravelly soil growing good wheat crops. Follow a well-defined broad track. Pass Arpajiyeh, small Moslem village, with good water from wells 20 ft. below surface. Pass Kolan Tepeh, Ba Zuwāyeh (?), and Gurigharībān, and through Qara Tepeh, a Shabbakh village. Pass Derāwish and Ba Jerboa. Basheikha at the foot of some bare outliers from Jebel Maqlub to NE. Ba Hazeineh, 200 houses, ½ m. to W. The inhabitants were mostly Yezidis in 1886, with some Christians. Several Yezidi shrines on the hill near. A large stream runs through the place, irrigating gardens lower down. Track now keeps E. through a wide gap between the Jebel Maqlūb on the N. and the Jebel 'Ain es-Safrā (Sari Bulāq Dāgh) on the S. 21? Cross a col by the ruined khan of Dubardan. (Distance from Basheikha 15½ m. according to Mil. Report; apparently exaggerated.) Sheikh Mutti monastery to N. up the slope of Jebel Maqlūb. A few Shabbakh villages near the top of the col. Country passable for wheels. Descend over easy country, ford the Ghāzir Su, and pass through Dusera on the l. bank. In this neighbourhood route crosses to S. of Route 45 a. Cross low ridge and reach Girda pan in a basin draining into the Ghāzir Su. Cross another ridge and descend to the Great Zāb. Cross the Great Zāb by a ferry. Girdamamik village on the l. bank, above the junction	turns N may be river to	E. and joins Route 45 a not far from Harīr. The route passable for wheels as far as the Zāb. Beyond that Harīr it may continue passable, but there is no definite
and through Qara Tepeh, a Shabbakh village. Pass Derāwish and Ba Jerboa. Basheikha at the foot of some bare outliers from Jebel Maqlub to NE. Ba Hazeineh, 200 houses, ½ m. to W. The inhabitants were mostly Yezidis in 1886, with some Christians. Several Yezidi shrines on the hill near. A large stream runs through the place, irrigating gardens lower down. Track now keeps E. through a wide gap between the Jebel Maqlūb on the N. and the Jebel Ain es-Safrā (Sari Bulāq Dāgh) on the S. Cross a col by the ruined khan of Dubardan. (Distance from Basheikha 15½ m. according to Mil. Report; apparently exaggerated.) Sheikh Mutti monastery to N. up the slope of Jebel Maqlūb. A few Shabbakh villages near the top of the col. Country passable for wheels. Descend over easy country, ford the Ghāzir Su, and pass through Dusera on the l. bank. In this neighbourhood route crosses to S. of Route 45 a. Cross low ridge and reach Girda pan in a basin draining into the Ghāzir Su. Cross another ridge and descend to the Great Zāb. Cross the Great Zāb by a ferry. Girdamamik village on the l. bank, above the junction	Mosul	Emerge on open undulating plain with light gravelly soil growing good wheat crops. Follow a well-defined broad track. Pass Arpajiyeh , small Moslem village, with good water from wells 20 ft. below surface.
Basheikha at the foot of some bare outliers from Jebel Maqlūb to NE. Ba Hazeineh, 200 houses, ½ m. to W. The inhabitants were mostly Yezidis in 1886, with some Christians. Several Yezidi shrines on the hill near. A large stream runs through the place, irrigating gardens lower down. Track now keeps E. through a wide gap between the Jebel Maqlūb on the N. and the Jebel Ain es-Safrā (Sari Bulāq Dāgh) on the S. Cross a col by the ruined khan of Dubardan. (Distance from Basheikha 15½ m. according to Mil. Report; apparently exaggerated.) Sheikh Mutti monastery to N. up the slope of Jebel Maqlūb. A few Shabbakh villages near the top of the col. Country passable for wheels. Descend over easy country, ford the Ghāzir Su, and pass through Dusera on the l. bank. In this neighbourhood route crosses to S. of Route 45 a. Cross low ridge and reach Girda pan in a basin draining into the Ghāzir Su. Cross another ridge and descend to the Great Zāb. Cross the Great Zāb by a ferry. Girdamamik village on the l. bank, above the junction		
Maqlūb to NE. Ba Hazeineh, 200 houses, ½ m. to W. The inhabitants were mostly Yezidis in 1886, with some Christians. Several Yezidi shrines on the hill near. A large stream runs through the place, irrigating gardens lower down. Track now keeps E. through a wide gap between the Jebel Maqlūb on the N. and the Jebel Ain es-Safrā (Sari Bulāq Dāgh) on the S. Cross a col by the ruined khan of Dubardan. (Distance from Basheikha 15½ m. according to Mil. Report; apparently exaggerated.) Sheikh Mutti monastery to N. up the slope of Jebel Maqlūb. A few Shabbakh villages near the top of the col. Country passable for wheels. Descend over easy country, ford the Ghāzir Su, and pass through Dusera on the l. bank. In this neighbourhood route crosses to S. of Route 45 a. Cross low ridge and reach Girda pan in a basin draining into the Ghāzir Su. Cross another ridge and descend to the Great Zāb. Cross the Great Zāb by a ferry. Girdamamik village on the l. bank, above the junction	191	
Cross a col by the ruined khan of Dubardan . (Distance from Basheikha 15½ m. according to Mil. Report; apparently exaggerated.) Sheikh Mutti monastery to N. up the slope of Jebel Maqlūb. A few Shabbakh villages near the top of the col. Country passable for wheels. Descend over easy country, ford the Ghāzir Su, and pass through Dusera on the l. bank. In this neighbourhood route crosses to S. of Route 45 a. Cross low ridge and reach Girda pan in a basin draining into the Ghāzir Su. Cross another ridge and descend to the Great Zāb. Cross the Great Zāb by a ferry. Girdamamik village on the l. bank, above the junction		Maqlūb to NE. Ba Hazeineh, 200 houses, ½ m. to W. The inhabitants were mostly Yezidis in 1886, with some Christians. Several Yezidi shrines on the hill near. A large stream runs through the place, irrigating gardens lower down. Track now keeps E. through a wide gap between the Jebel Maqlūb on the N. and the Jebel Ain es-Safrā (Sari
col. Country passable for wheels. Descend over easy country, ford the Ghāzir Su, and pass through Dusera on the l. bank. In this neighbourhood route crosses to S. of Route 45 a. Cross low ridge and reach Girda pan in a basin draining into the Ghāzir Su. Cross another ridge and descend to the Great Zāb. Cross the Great Zāb by a ferry. Girdamamik village on the l. bank, above the junction	21?	Cross a col by the ruined khan of Dubardan . (Distance from Basheikha 15½ m. according to <i>Mil. Report</i> ; apparently exaggerated.) Sheikh Mutti monastery to N. up the slope of Jebel
Cross low ridge and reach Girda pan in a basin draining into the Ghāzir Su. Cross another ridge and descend to the Great Zāb. Cross the Great Zāb by a ferry. Girdamamik village on the l. bank, above the junction	27	col. Country passable for wheels. Descend over easy country, ford the Ghāzir Su, and pass through Dusera on the l. bank.
Cross another ridge and descend to the Great Zāb. Cross the Great Zāb by a ferry. Girdamamik village on the l. bank, above the junction	34	Cross low ridge and reach Girda pan in a basin draining
Girdamamik village on the l. bank, above the junction		Cross another ridge and descend to the Great Zāb.
	43	Girdamamik village on the l. bank, above the junction

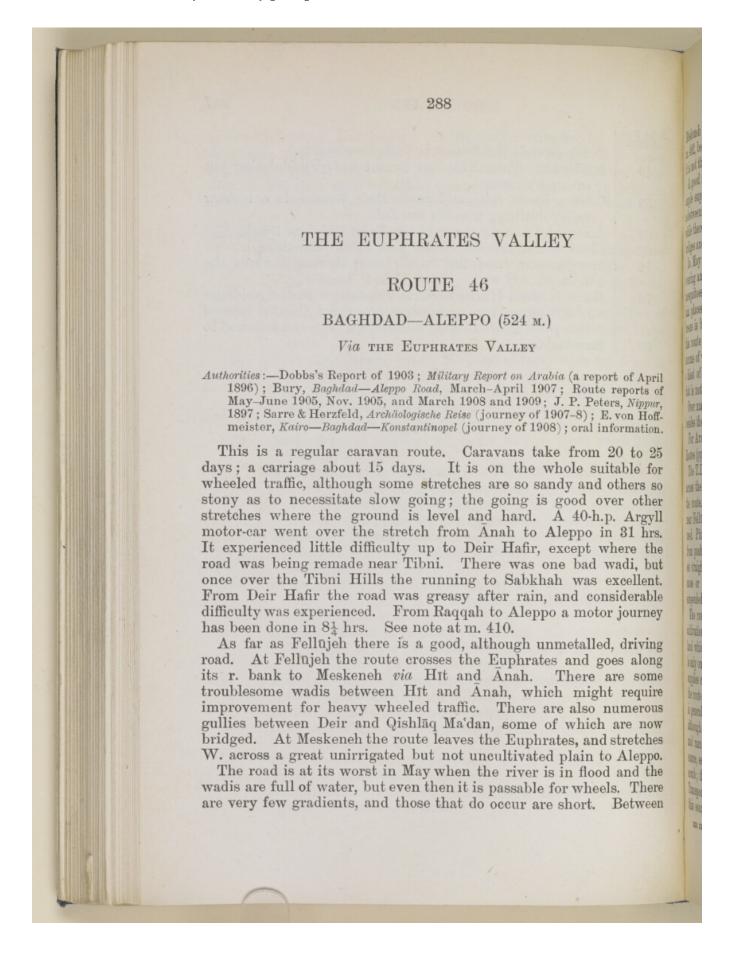


"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٢٨٧] (٢٣٢/٢٩٤)

		(146)
	ROUTE 45 b 287	
Miles from Mosul	Track ascends the Bastoreh Valley eastwards. Rishwān. Turn NE. over open country, undulating but	
59	cut up by ravines. Cross a broad ridge and reach Deir Borusa in a narrow valley draining towards the Zāb.	
62 63 71	Ascend by a rocky gorge to the Bābā Chichek Dāgh . Cross by a rough ascent and pass Bābā Chichek on l. Cross stream from the Narib Desht flowing towards the	
72	Zāb. Harīr (Deireh Harīr) to N., 200 houses, with the residence of a Kaimmakam. Apparently a short distance beyond this point Route 45 a is joined (at m. 72½), and followed to	
89	Rowanduz.	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٨٨٨] (٢٣٢/٢٩٧)



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ROUTE 46

289

Meskeneh and Aleppo the track by Tel Aghul (see left branch under m. 482, below) is said to be the better for military purposes, though it is not the usual caravan route.

A good road could be made over this route; for which purpose an ample supply of metal is obtainable at certain points on the route, as between Feheimeh and Anah and at Deir ez-Zor and Qishlaq Ma'dan; while there are no serious engineering difficulties: only a few stone

bridges and culverts—no iron girders—would be required.

In May and June it is said to be better to march by night, or evening and morning. Sandstorms are common below Anah. mosquitoes are not intolerable, but a virulent sandfly is found in certain places, when neither man nor beast can sleep unless a strong breeze is blowing. During floods the difficulties and discomforts of this route are increased. Violent storms may also occur, including storms of very large hailstones. Within a few minutes after sunset a blast of cold air comes from the E. which may tear down a tent that is not properly fixed.

Over many parts of the route there are probably alternative tracks

besides those indicated in the itinerary.

For Arab tribes on the route see Introduction to Euphrates River

Routes (pp. 94, 95). Compare Routes IV E-H throughout.

The T.L. follows the line of the route to Fellujeh and is carried across the Euphrates up-stream of Fellujeh; thence it accompanies The poles for carrying the two wires are of wood near Fellüjeh and Ramādiyeh, but elsewhere iron standards are used. Pits are dug round these poles to prevent caravan animals from pushing them out of position, but they have frequently to be set straight. Arabs occasionally damage the wires, and, from one cause or another, telegraphic communication may be altogether

suspended for days together.

The route passes, to a large extent, by irrigated or non-irrigated cultivation, through jungles of tamarisk, thorn, and liquorice, or over land which has rich pastures in spring. The irrigated cultivation is only on a narrow strip of the river bank, and is rather poor. No supplies can be relied on except for small parties. The best part of the route, as regards supplies, is from Meskeneh onwards. Water is generally plentiful. Some pools are brackish, but the river water, although thick, is good. Watering-places would have to be prepared and ramps made in the banks. All along the route fuel is very scarce, especially in spring, when the sap is in the thorn or tamarisk scrub; there is a little wood in the large villages, and camel dung. Transport and live stock may be got from the nomad tribes, and this source of supply is naturally most abundant when the nomads

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290 LAND ROUTES are using the pastures. After the second hour from Baghdad flocks of 80 to 100 sheep are met with. On leaving Fellujeh the track passes through corn land, and there are only occasional flocks. After 2 m. of cultivation the track from Ramadiyeh to Hit strikes across the desert. From Hit to Anah the track leads for the most part across the desert, touching the river at long intervals. There are narrow strips of cultivation on the river bank. About Anah cultivation improves, but beyond Anah, between Nahiyeh and Abu'l Kemāl, the river-valley is almost uncultivated. From Abu'l Kemāl to Deir ez-Zor there is almost continuous but poor cultivation. Round Deir ez-Zor there is a belt of cultivation and good grazing. From Deir ez-Zor the cultivation becomes only occasional instead of continuous. but the route traverses a plain on which there is rich grazing. Continuous cultivation begins again at Abu Hureireh. At Meskeneh the route leaves the Euphrates and runs through cultivated country. Of this stretch a traveller in 1906 says: 'On the way from Haleb (Aleppo) to Meskeneh, as far as the eye can see, there stretches a glorious tract of corn-bearing land, spotted with mud villages, containing a mixed race of people who reply equally readily in Turkish, Kurdish, or Arabic to the questions put by the passing traveller. Many of the villages are the property of wealthy citizens of Haleb, whose influence is sufficient to obtain protection for their tenants from the Government. The cultivation is not elaborate, but the ground is fairly tilled, and the continual influx of industrious people is steadily regenerating the land. . . . At present the reclamation only extends within an hour of Meskeneh, but as the most easterly villages were only built last year, there is every hope that within a short time the river banks themselves will be populated.' Miles from Baghdad Baghdad. For details of the route as far as Fellujeh, see vol. ii, Route 22. For Decauville Railway to Ridhwāniyeh see p. 396. 435 Fellüjeh. Here the route meets the Euphrates Valley and crosses by a bridge of boats from l. to r. bank. Except in flood-time there is very little current; but in flood-time the crossing is difficult. At the bridge of boats the river is 200 to 250 yds. broad. Khan at each end of the bridge. The track starts at first S. by W. round a bend of the river, then generally W. by N. for 5 m. through corn-fields irrigated by cherrads (water-lifts). A few mud huts of settled Arabs. Many irrigation cuts. Ground rather heavy and liable to flood.



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		(140)	
	ROUTE 46	291	
Miles from			
Baghdad 45	Track touches river and enters a plain. It is spoil	t by sand	
	drifts for 1 m. Sinthabaneh Hills to l., behir	nd which	
-11	are said to be quarries of white stone. T.L. crosses from l. bank.		
$54\frac{1}{2}$ $51\frac{1}{2}$	Low foot-hills (120 ft. high) dominate the track.		
$61\frac{1}{2}$	Country becomes dead flat; good soil but no grass	S.	
$66\frac{1}{2}$	Two shallow water-courses, sometimes dry, bu	t having	H
	2 to 3 ft. of water at flood.	ich weten	
$72\frac{1}{2}$	Ramādiyeh. Heavy going beyond this in the his season.	gn-water	111
$73\frac{1}{2}$	Road crosses tributary with banks 6 ft. high cr	cossed by	111
- 2	a single-arched stone bridge. Away from the	river the	
	ground is barren, and beyond is a waste of brol	ken hills,	Ш
	but a continuous strip of cultivation follows banks.	the liver	
74	Cross Et-Tash (Azeziyeh) Canal, 18 ft. broad, b	y an old	
The said	single-arched brick bridge. This canal conne	ects with	HH
	the W. side of Lake Habbaniyeh, but is someti	mes dry.	
	Numerous neglected irrigation cuts with or with are mentioned as occurring in this part of the	be route	1111
	some of which form obstacles even to light w	ragons.	
$74\frac{1}{2}$	The road, which for 2 m. from Ramadiyeh l	has gone	
	through cultivation, strikes off across level desert	t through	
	the country of the Beni Hasan tribe and som Dilaim. The former are here the more numero		
841	The ground becomes covered with tamarisk scru		MA
-	the height of gorse; soil sandy.		HH
85	Road reaches the river at the S. extremity of a gre	eat horse-	
	shoe bend. The river is here $\frac{1}{2}$ m. broad. I again leaves the river.	The road	
86	Abu Rayāt (Khān or Sheriyet Abu Rayāt).		
89	Road rejoins river and rises 100 ft. over marble-	like rock	
	at the foot of which the river flows. The road	d is very	
	rough here for carriages (1907). There are low l. bank, and the smoke of Hit bitumen pits can	be seen.	
$90\frac{1}{2}$	Cross a ford over a wadi (Wādi Mohammadi	i?) with	
071	water up to the hocks (end of March).		
$97\frac{1}{2}$	From here for 2 m. track winds through a succ		
	knolls, numerous side gullies running back to track and suitable for ambuscades. As one ap		
	Hīt the smell of sulphur becomes noticeable, an		
	deposit of sulphur and bitumen forms on the gr		
	т 2		
	The same of the sa		



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discoloured by minerals flow near the town. The track skirts a succession of walled date gardens \(\frac{1}{4}\) m. wide extending W. of the town along the bank of the rive for nearly 1 m. Piles of limestone fragments are now passed, their yellow colour denoting the presence of sulphur. Track then crosses stony undulating desert. Salāhiyeh. Track touches the river. Track now cuts of a bend of the river, crossing desert and three wadis. The road, which has lately been rocky and difficult in places, now descends from the high land into the valley and continues between the foot of the cliffs and cultivated land to Khān Baghdādiyeh. A khan was being built here in 1908. An authority (March 1908) reports that the Wādi Baghdādi is in this neighbourhood, and that is has steep banks and a mud bottom; this is probably the wadi over which a substantial bridge has lately been built. Jibbeh fort, small zaptieh post, near the river. The villag is on an island \(\frac{3}{4}\) m. above Jibbeh fort. There is plent of grass in April, and supplies may be got in small quantities from the neighbouring villages. Note.—Authority of 1909 gives the distances as follows:— Hit—Salāhiyeh—Baghdādiyeh 19 m. Baghdādiyeh—Jibbeh 4 m. Between Jibbeh and Hadīseh a number of wadis are crossed: see under m. 146\(\frac{1}{2}\) and 150\(\frac{1}{2}\). The route at firs strikes up on to high stony plain. Cross bed of Wādi Haurān, which is usually dry, but subject to periodic floods of great violence. The bed is conglomerate slabs. One authority says that there is a possible route to Damascus in six days by following uthis wadi and then proceeding W., but the lawlessnes of the Anazeh has made it unsafe. Wādi er-Rajādā	292	LAND ROUTES
Furnaces in which bitumen is melted and which emi dense clouds of smoke are passed close by. Brook discoloured by minerals flow near the town. The track skirts a succession of walled date gardens \(^1\) \(^1\) m. Wide extending W. of the town along the bank of the rive for nearly I m. Piles of limestone fragments are now passed, their yellow colour denoting the presence of sulphur. Track then crosses stony undulating desert. Salāhiyeh. Track touches the river. Track now cuts of a bend of the river, crossing desert and three wadis. The road, which has lately been rocky and difficult in places, now descends from the high land into the valled and continues between the foot of the cliffs and cultivated land to Main Baghdādiyeh. A khan was being built here in 1908. An authority (March 1908) reports that the Wadi Baghdādi is in this neighbourhood, and that is has steep banks and a mud bottom; this is probably the wadi over which a substantial bridge has lately be built. Jibbeh fort, small zaptich post, near the river. The villag is on an island \(\frac{3}{4}\) m. above Jibbeh fort. There is plent of grass in April, and supplies may be got in smal quantities from the neighbouring villages. Note.—Authority of 1909 gives the distances as follows:— Hit—Salāhiyeh—Baghdādiyeh 19 m. Baghdādiyeh—Jibbeh 4 m. Between Jibbeh and Hadīseh a number of wadis ar crossed: see under m. 146\(\frac{1}{2}\) and 150\(\frac{1}{2}\). The route at firs strikes up on to high stony plain. Cross bed of Wādi Haurān, which is usually dry, bus subject to periodic floods of great violence. The bed is conglomerate slabs. One authority says that there is a possible route to Damascus in six days by following uthis wadi and then proceeding W., but the lawlessnes of the Anazeh has made it unsafe. Wādi er-Rajadā lies apparently beteen Wādi Haurān and Wādi Fadiyel Pass Alūs village.	Baghdad	
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lies apparently beteen Wādi Haurān and Wādi Fadiyel Pass Alūs village.		
	1	lies apparently beteen Wādi Haurān and Wādi Fadiyeh
	1451	



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		(149)	
	ROUTE 46	293	Ш
Miles from			
Baghdad 1461	Wādi Hajlān. All these wadis give grazing in spr	ing; but	Ш
1102	they were found to be somewhat serious obstac	eles by a	1111
	traveller (1908) passing over the route with to	wo light	1111
	wagons. Before reaching Hadrseh there is a cave	In a cliff	
1501	beside the road which will shelter a caravan of 100; Hadiseh. A good place to camp on r. bank opportunity	osite the	
$150\frac{1}{2}$	village. Supplies and grazing to be had. Th	ere is a	
	bad khan.		
	Note.—Authority, 1909, gives the following times between	en Jibbeh	
	and Hadiseh (some of the intermediate points c	annot be	
	identified) :— Jibbeh—W. Hammām ¾ hr.		
	W. Hammām—W. Abu'l Hasan 1 ³ hr.	Mintel Res	
	W. Abu'l Hasan—Alūs ½ hr. Alūs—W. Zughdān ½ hr.		
	W. Zughdān—W. Fadiyeh 1 hr.		
	W. Fadiyeh—W. Hajlān ¼ hr. W. Hajlān—Hadīseh 1¼ hr.		HH
	From Hadīseh to Feheimeh is said to be better go	ing than	
	the previous stage. The track keeps on the	plateau	
	parallel with the river and about 1 m. from it	f for the	
	first 8 m. There is said to be good camping between Hadīseh and Feheimeh.	g-ground	
1591	Cross the Wādi Ausāyiyeh.		
$169\frac{1}{2}$	Feheimeh village and zaptieh post. Swamp at n	nouth of	
	wadi near post.	_	
	A good deal of work is required on the stretch to	Anan to undance	
	make the road easy for wheeled traffic. There is ab of stone, and labour in plenty can be obtain	ned from	
	Anah and the neighbouring villages. Road a	and T.L.	
	leave river for high ground. The road is described	ribed by	
100	one authority as bad until it returns to the river	· alogo	
175	Hereabouts road and T.L. rejoin river and continuous to its bank as far as Anah.	lue close	
1801	Anah becomes visible about this point; it exten	ds some	
2	6 m. along the river.		
$184\frac{1}{2}$	Track descends to cross a water-course with a pebl	oled bed.	
	There is a bridge here, in disrepair before the w	ar. The	
	Anah end was in 1907 much dilapidated, leaving a high. Owing to this wheeled traffic had to cross	2½ m. up	
	the torrent bed by another bridge. Before reachi	ng Ānaĥ	
	two new bridges over shallow but rocky gu	llies are	
	crossed (1907).		
			1100



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٤٩٢] (٣٠٣/٣٠٤)

294	LAND ROUTES
Mlies from Baghdad	
$186\frac{1}{2}$	Anah. After leaving N. gate of Ānah and passing for 1 m. through
	gardens and fields, the road ascends to high ground apparently by the Wādi Rawā (authority 1889) leaving the river, which here makes an acute bend N.
	Road keeps mostly along the plateau, occasionally descending to the river bank. It has been reported
	that in April 1896 a large grassy plain was reached at 1 m. from Nāhiyeh, with good grazing, but no supplies or village. Another authority (early April 1907) speaks of a lack of grazing round Nāhiyeh. Country is not so
9051	thickly populated as below Anah.
$ \begin{array}{c c} 205\frac{1}{2} \\ 212 \end{array} $	āhiyeh khan and zaptieh post. Qāsim el-'Assā'iyeh.
$216\frac{1}{2}$	The road continues due W., leaving the river, which i again approaches at El-Qā'im.
$231\frac{1}{2}$	El-Qā'im, police post with two or three <i>zaptiehs</i> normally The post lies near the water's edge on a grassy plair which usually affords good grazing. There is neither village nor supplies. There is a very dirty khan. The
	country here is sparsely populated and villages are rare. The road now runs over low-lying ground through out, marshy in places and with brushwood near the river. The road keeps over the grass, avoiding the marshes (in flood time the river overflows its banks), and affords bad going to vehicles, the soil being soft sand
	and clay (1908). About half-way to Abu Kemāl one passes from the <i>Vilayet</i> of Baghdad to the <i>Vilayet</i> of Aleppo. Several wadis are passed.
235½	Ruins of 'Anqah (also called El-Jabriyeh from neighbouring shrine of Sheikh Jābir), and large mound covered with shapeless masses of stone.
	Cross large wadi called El-Jābir . Among the other wadis crossed between this point and Abu Kemāl are several of large size, the most considerable being the Wādi 'Ali .
2471	Abu Kemāl. Road (hard sand) reported good for wheeled vehicles in
	March 1908. It runs through ploughland succeeded by sparse tamarisk jungle. Cross Wādi Sawāb N. of Abu Kemāl and strike NW.
	across a broad plain between river and desert plateau
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"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٩٩٥] (٤٣٢/٣٠٤)

ROUTE 46 Ruin-mound called Tel Madquq (60 ft. high), graves on the summit. A smaller Tel Madquq is a short distance nearer Abu Kemāl. Tamarisk growth covers the plain to Salāhiyeh. Salāhiyeh khan and zaptieh post.	
Ruin-mound called Tel Madquq (60 ft. high), graves on the summit. A smaller Tel Madquq is a short distance nearer Abu Kemāl. Tamarisk growth covers the plain to Salāhiyeh.	
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nearer Abu Kemāl. Tamarisk growth covers the plain to Salāhiyeh.	
to Salāhiyeh.	
Salahiveh khan and zaptien post.	
In about $\frac{1}{3}$ m. the road reaches foot of cliffs and continues	
to run beneath them.	
At the extremity of a promontory of these cliffs, or about	111111111111111111111111111111111111111
the distance as $5\frac{1}{2}$ m.), are the remains of the Roman	111111
fortress of Salahiveh, through which the road runs,	
The ascent begins with a masonry culvert forming a	
steep ramp constructed in 1906. The ruins comprise	
a gypsum wall some 15 ft. in height, running from one	
gate towers in the centre, 30-40 ft. in height. An inner	
wall at the NE. corner of the promontory marks the site	
for 9 m.	HILL
Road now descends to and crosses a large plain. Ruins of	
Qal'ah Rahbeh on high ground can be seen for 12 m.	111111111111111111111111111111111111111
245 ft. above river-level. The knoll is scarped away in	
places and faced with stone and brick. Ascent is very	HILL
Meyvādīn.	HE HA
The road proceeds skirting what was till lately the river	
at first grassy. As Deir ez-Zor is approached the ground	III III
rises and is covered with wormwood. Large spring and	THE REAL
many mares come for grazing on the Meyyadın Plain	
which extends W. some 25 m., terminating as the edge of	
before Deir ez-Zor. The plain is very fertile, and once was	
thickly peopled. It is still the most populated region	
Difficult crossing of a ravine with bed of gravel and	
sand.	
Outhvation, edge of desert plateau near river.	
	the distante from Salāhiyeh khan (one authority gives the distance as 5½ m.), are the remains of the Roman fortress of Salāhiyeh, through which the road runs, having zigzagged up the otherwise inaccessible cliffs. The ascent begins with a masonry culvert forming a steep ramp constructed in 1906. The ruins comprise a gypšum wall some 15 ft. in height, running from one side of the promontory to the other (about ½ m.) with gate towers in the centre, 30–40 ft. in height. An inner wall at the NE. corner of the promontory marks the site of the citadel. Road keeps across high, stony ground for 9 m. Road now descends to and crosses a large plain. Ruins of Qal'ah Rahbeh on high ground can be seen for 12 m. This is a well-preserved castle on an abrupt rocky knoll 245 ft. above river-level. The knoll is scarped away in places and faced with stone and brick. Ascent is very difficult. In the castle is a blocked well 60 ft. deep. Meyyādīn. The road proceeds skirting what was till lately the river bed, now dry. It then lies mostly across a level plain, at first grassy. As Deir ez-Zor is approached the ground rises and is covered with wormwood. Large spring and summer camps of the Anazeh with flocks and herds, and many mares come for grazing on the Meyyādīn Plain which extends W. some 25 m., terminating as the edge of the desert plateau sweeps round to the river again shortly before Deir ez-Zor. The plain is very fertile, and once was thickly peopled. It is still the most populated region between Birijik and Hilla. T.L. appears to run generally 1–1½ m. W. of road. Difficult crossing of a ravine with bed of gravel and



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٢٩٦] (٣٠/٣٠٥)

296	LAND ROUTES
Miles fr Baghd $322\frac{1}{2}$	Deir ez-Zor. (For bridge over Euphrates, see p.128.) Two branches of the route leave Deir: one known
	They are never more than 3 m. apart. The T.L. is between them. They rejoin just before reaching 'Ain Abu Jum'a spring. From Deir to where they rejoin is 11 m. by the valley road and 12 m. by the upper reaching the spring in the valley road and 12 m. by the upper reaching the spring is 11 m. by the valley road and 12 m. by the upper reaching the spring is 11 m. by the valley road and 12 m. by the upper reaching the spring is 11 m. by the valley road and 12 m. by the upper reaching the spring is 11 m. by the valley road and 12 m. by the upper reaching the spring is 12 m. by the upper reaching the upper reaching the spring is 12 m. by the upper reaching the upper reachin
	The valley road is about 20 ft. broad and ditched and metalled for some 10 m. A traveller (1909) in a 40-h.p. Argyll car found no difficulty on this stretch of the
323	Gully; bridge washed away (1907) by a torrent. ½ m. farther on is another gully with a bridge of three
$327\frac{1}{2}$	arches, central arch 12 ft. high. Ravine spanned by a single-arched bridge (26 ft. span). It is 20 ft. from the keystone to the torrent bed. The
	stone is brought from Ma'dan (two stages up-stream), and is durable against water and harder than the local stone. The road keeps to the valley, mostly over plains, grassy in spring, where numbers of bullocks and camels graze.
$333\frac{1}{2}$	Single-arched stone bridge hereabouts (1909). Track then proceeded across a muddy plain for 11 m., in the middle of which were 3 m. of earthwork raised 12 ft., for a chaussée, also two single-arched stone bridges.
334 341 1 / ₂	Ain Abu Jum'a, small bituminous spring. Shajarat Miriam spring.
$350\frac{1}{2}$	Tureif, small zaptieh post. Here the river banks are 25 ft. sheer. No supplies, but grass in spring and fuel plenti-
351 $353\frac{1}{2}$	ful. Two deep gullies; bridges washed away in 1907. Three-arched stone bridge about here (1909). Track passes close to Tibni village on the bank. Khan by a wadi crossed by single-arched stone bridge. Zaptich
	post on high ground. (One account gives 6 m. as distance from Tureif.) Shortly after passing Tibni village road keeps to high ground till it descends to the plain of
356	Ma'dan. Road in 1907 made a digression W., skirting uneven ground, approaching and following T.L.
872 <u>1</u>	Qishlāq Ma'dan. The road on this stage is good, across a perfectly level plain. Tamarisk shrubs appear and increase to trees.



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٢٩٧] (٢٩٣٠٤)

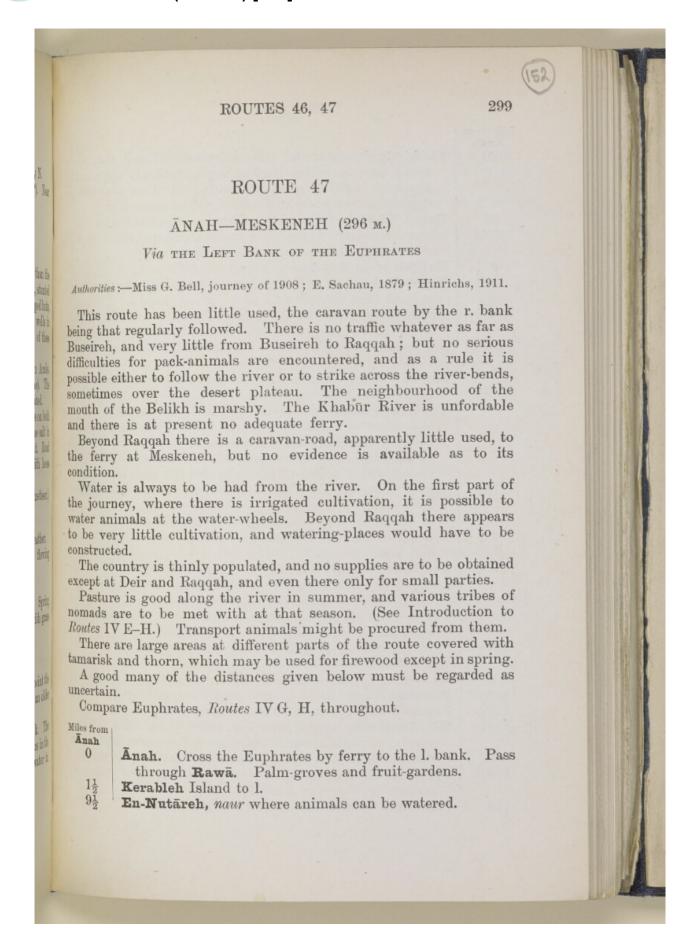
	(81)
	ROUTE 46 297	
Miles from Baghdad		
$389\frac{1}{2}$	Tamarisk copses.	
	In spring 1907 Abu Rashid Arabs were seen here. Camels	
2001	in the tamarisk thickets belonged to the Anazeh Arabs. Shawi Arabs with flocks and herds seen here in spring 1907.	
$390\frac{1}{2}$	A short distance farther, after crossing a low pass, a narrow	
	flood basin is seen, left isolated (in spring 1907) by the	
	river.	
$395\frac{1}{2}$	Qishlaq Sabkhah, small village, seat of a Mudir. Barracks	
	and fair-sized khan with T.O. Watering-place on river below barracks.	
397	Track enters a forest of tamarisk, 10-13 ft. high, and con-	
	tinues through it for 4 m.	
401	Track skirts a tract fenced with bundles of camel thorn,	
	which is the pasture of the head-quarters of the rich Suan tribe.	
4061	Track descends sharply to a grassy or cultivated plain,	
1002	across which it runs.	
410	Raqqah on opposite (l.) bank of river (18 m. from Sabkhah	
	according to one account).	
	Note.—A 40-h.p. Argyll car left Aleppo, May 31, 1910, and going	
	via Nahr Dahab, Deir Hafir (4½ hrs.), Meskeneh (5½ hrs.), and Abu Hureireh reached Raqqah in 9 hrs. The return journey took	
	84 hrs. From Raqqah to Abu Hureireh the road was smooth, but	IIIIII
	the last part was uneven and stony. From Raqqah to Aleppo can be ridden in three days.	HHIN
414	Route passes among low hills continuing for 11 m.	
425	El-Hammām.	HILL
	Bad khan (1908), a few huts and zaptieh post. T.O. Not	
	much grazing. Tamarisk thickets in neighbourhood.	IIII
	Track now good, over undulating ground. The conspicuous tower of Qal'ah Jābir on l. bank of the Euphrates below	
	Abu Hureireh forms a landmark. An alternative track	
	appears to lead to S.	
426	Tel eth-Thedeyein. Branch track S. to Hama (see Route 55).	
448	Abu Hureireh watch-tower and zaptieh post.	
457	Poor grazing. Track rises and passes through corn-fields (not irrigated)	
	belonging to Weldeh Arabs.	
$459\frac{1}{2}$	Yellowish soil; there is a larger tract of plough land on a	
468	plateau.	
100	Ruins of Eski Meskeneh are seen on hills to W. Here are two shrines.	
	are two sillines.	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٩٩٨] (٢٩٨٠ع)

298	LAND ROUTES
Miles from Baghdad 470	Meskeneh; the river is here $1\frac{1}{2}$ m. distant. The road here leaves the river and proceeds W. by N. Sulphur pool and ruins of a khan (Abu Karmess?). Near here the road divides.
	(i) Left Branch.
486	This is said to be better supplied with water than the other. It crosses a rolling plain growing scanty, stunted barley, harvested in May. Villages of beehive-shaped huts, tents, and flocks are seen, and water is got from wells in the limestone, 2-3 ft. below the surface. Some of these wells are brackish. Tel Aghul, a beehive hut village of Haddidin Arabs.
502	There are good water and grass here (May-June). The road now continues over stony soil, well cultivated. Jebbul, large village and zaptieh post, with streams on both
	sides and good grass camping-ground to N. The salt in the neighbourhood is worked by the Government. Road still through cultivated country, but rough with loose stones.
524	Aleppo. (For description of town, see vol. iv, Gazetteer.)
	(ii) RIGHT BRANCH.
486	The usual caravan route. Heavy going in wet weather. Pass a village, and shortly after cross a stream flowing from Ala.
$\frac{487\frac{1}{2}}{489}$	Pass Ala village. Deir Hafir, village with khan and a few shops. Spring and stream of good water. Country covered with grass in spring; numerous Arab camps.
489½	Pass a small marsh.
496 505	Pass an isolated mound. Spring of good water. Safireh. Mounds at long intervals. From this point the route perhaps coincides with that detailed from an older account in Route 57, m. 123½–139.
515	Terekiah. Many old dry wells, vaults in the rock. The mouths are open and they are therefore dangerous in the dark. One, with a well-head over it, held water in 1907, at an estimated depth of 40 ft.
518 524	Long lake at the foot of a chain of hills. Aleppo.

"كتيّب بلاد الرافدين. المجلد الله ١٩١٧ [٩٩٦] (٣٠٨/٣٠٨)





"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٣٠٠] (٣٠٠٩)

300	LAND ROUTES
	LAND ROUTES
Miles from Anah	
20	El-'Ajmīyeh, naur and watering-place. Track now over
	rocky ground. The track for pack-animals apparently
	keeps on cutting off river-bends, but it is possible to
	descend to the river and follow its course.
35	Qal'at Rāfideh, to l. on the r. bank of the Euphrates.
$36\frac{3}{4}$	Mazar of Sultan 'Abdallah, a small modern shrine. Some-
471	where near are the ruins of Jabariyeh.
$47\frac{1}{4}$ $49\frac{1}{4}$	Balijeh mound. Arab graves. Nammāleh Island to l. Track now across high stony ground
404	cutting off a river-bend.
$56\frac{1}{4}$	At about this point El-Qā'im is to l. on the r. bank. After
4	some miles the track approaches the river, running
	through tamarisk jungle, with traces of former cultiva-
	tion.
	Rabāt village, to l. near the river, is passed. Some corn
	cultivation.
	Track then leaves the plain by a steep rocky path. Pass
	the ruins of Ardhi or Irzī on a bluff overlooking the
	river. Descend from bluff into plain. On the W. side of the bluff is the lower end of the ancient Dawwarin
	Canal, which apparently runs under the hills to r.
$73\frac{3}{4}$	Werdi village, in the district of the same name. Irrigation
- 4	from canals by cherrads.
	Abu Kemāl lies on the opposite bank of the river.
	Track now through tamarisk jungle full of ducks, pigeons,
053	and jays.
$87\frac{3}{4}$	Tel Abu Hasan, prominent mound rising 50 ft. above
	the river. Arab graves on the summit. Other mounds are passed farther on.
	Before m. $101\frac{3}{4}$ track goes through some miles of loose
	sand with occasional patches of tamarisk.
1013	Corn cultivation along the low ground begins.
	Track keeps to r. to avoid water-channels.
4000	Numerous villages during the next few miles.
$108\frac{3}{4}$	Bustān village.
$112\frac{1}{4}$	Jemmah mounds some distance from the river.
$114\frac{3}{4}$	Tel Buseiyih, mound forming three sides of a hollow square, the side towards the river being open. Tiyana
	village about \(\frac{1}{2}\) m. distant, in a long tract of cultivation.
1181	Tel el-Krah, low mound covered with tiles and coloured
4	pottery.
119	Pass some ancient foundations.



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٣٠١] (٣٢/٣١٠)

-			153
		ROUTE 47 301	
-	Elas from 1		
N	liles from Ānah		
	124	Reach the l. bank of the Khabūr close to its junction with the Euphrates. Cross by a ferry to the r. bank. The ferry-	
	1	boat in 1910 would not carry loaded animals.	
		Buseireh village on the r. bank, at the SW. corner of the	
		ruins of the ancient city of Circesium.	
		The track now is through thinly populated country, partly	
	1300	irrigated by water-wheels. Between the road and the	
		river there lies generally a stretch of low ground, a former	
		bed of the river, which now flows more to the W.	
	114	Occasional mounds marking the sites of former villages. Deir ez-Zor on the r. bank. For the bridge over the	
	144	Euphrates see p. 128.	
	1471	Es-Senujeh village. Continuous cultivation ends. Track	
	2	now monotonous, through country inhabited only by	
		semi-nomads, chiefly Baggarah.	
	149	El-Maisheh, tent-village on an arm of the Euphrates (1880).	
	153	Some rice and durra cultivation. Abu Sfir, tent-village 1 m. to 1.	
	$155\frac{1}{4}$	Upper end of a western bend of the Euphrates.	
	160	Upper end of a western bend of the river.	
	$164\frac{1}{2}$	Reach the foot of a ridge which the track crosses.	
	166	Summit.	
	$\frac{166\frac{1}{2}}{170}$	Reach the foot of the ridge. Umm Rejeibeh, ruins on a hill under the N. side of which	
	170	is an old channel of the river which has carried away	
		part of the hill. The modern qishlaq El-Munqareh lies	
		under the slope. It was partly ruined in 1909, though	
	150	it had been built only ten years before.	
	172	El-Kubra, ziyāret \(\frac{1}{4}\) m. from the river. The banks are	
		sandy and fall steeply to the river, which is very broad at this point.	
		Track now runs across the plain.	
	176	Reach the foot of the El-Hammar Hills (see Route IV H,	
	177.01	m. 46). Ascend.	
	$176\frac{1}{2}$	Summit on which are the ruins of the ancient fortress of	
	177	Zalubiyeh (see Route IV H, m. 46). Descend. Reach the foot of the ridge on which Zalubiyeh stands.	
		Track lies under cliffs along river.	
	178	Ruins of the fortress of Halebiyeh opposite on r. bank of the	
	1001	Euphrates. The valley narrows (see Route IV H, m. 47)	
	$182\frac{1}{2}$	Cross the Wādi el-Melih, a broad stream.	
		Ascend a ridge.	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٣٠٣] (٢٠٣٦٤)

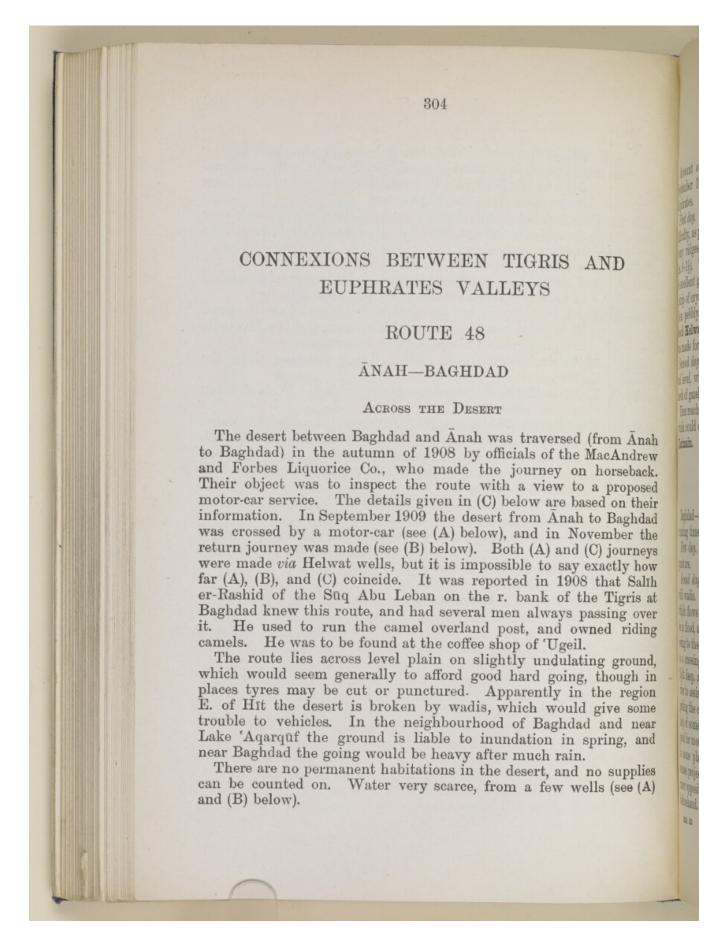
Qabr el-Abu Atiq, ruins, 150-200 ft. above the Euphrates, the ground falling steeply to an old bed of the river. Descend and cross a dry stream-bed. Emerge from the defile on to the plain. Tel el-Khumeidah, isolated hill about 2 m. to 1. Reach the Euphrates at the upper end of a western bend. El-Aleh. Afadleh tent-village in tamarisk jungle 1½-2 m. to 1. El-Khās, tent-village in a clearing. Track now passes through tamarisk thicket. Pass Imām Abu Sa'īdeh, Moslem shrine and cemetery. Jedideh, tent-village. Khirbet ted-Dukhujeh. Khirbet ted-Dukhujeh. Khirbet ted-Dukhujeh. Meida. Grassy mounds near the river. Some distance beyond this point an area surrounded with a deep dith is crossed. Z16½ Z20¾ Robert Lenampments in the neighbourhood. Pass the Jebel Munkhir, a volcanic ridge 1 m. to r. which rises several hundred feet above the plain. From the summit the Jebel Munkhir esh-Sharqi can be seen lying about 3 m. E., and almost due N. on the horizon rising ground called Jebel 'Ukala (Tulaba). Limestone tel with traces of masonry on the top. Reach the Belikh and cross by a ford or a light wooden bridge. In the early spring of 1908 the Belikh was a muddy brook. In Dec. 1879 the ford was girth high, and the river seemed likely to be unfordable after heavy rain. Cross marshy ground as far as Raqqah. Tack now WNW., partly in the plain, partly along the edge of the desert plateau. Ruin of Hiraklia, a rectangular fortress, almost square, with a series of vaulted chambers forming the outer parts of the block and apparently larger vaulted chambers filling up the centre. At the angles are four round towers. The masonry is mostly of unsquared stones laid in a bed of very coarse mortar mixed with small stones, but the vaults are of brick tiles. The fortress is ringed round by an outer wall now completely ruined. Beyond it to the S. runs a dyke, and beyond the dyke, about 550 yds.		302	LAND ROUTES
Qabr el-Abu Atiq, ruins, 150-200 ft. above the Euphrates, the ground falling steeply to an old bed of the river. Descend and cross a dry stream-bed. Emerge from the defile on to the plain. Tel el-Khumeidah, isolated hill about 2 m. to 1. Reach the Euphrates at the upper end of a western bend. El-Aleh. Afadleh tent-village in tamarisk jungle 1½-2 m. to 1. El-Khās, tent-village in a clearing. Track now passes through tamarisk thicket. Pass Imām Abu Sa'īdeh, Moslem shrine and cemetery. Jedideh, tent-village. Khirbet ed-Dukhujeh. Khirbet Hadawi. Meida. Grassy mounds near the river. Some distance beyond this point an area surrounded with a deep ditch is crossed. Kubur el-Jebel. Encampments in the neighbourhood. Pass the Jebel Munkhir, a volcanic ridge 1 m. to r. which rises several hundred feet above the plain. From the summit the Jebel Munkhir esh-Sharqi can be seen lying about 3 m. E., and almost due N. on the horizon rising ground called Jebel (Ukala (Tulaba). Limestone tel with traces of masonry on the top. Reach the Belikh and cross by a ford or a light wooden bridge. In the early spring of 1908 the Belikh was a muddy brook. In Dec. 1879 the ford was girth high, and the river seemed likely to be unfordable after heavy rain. Cross marshy ground as far as Raqqah. Tel Zedan, hill running N. and S. about 2 m. to r. Raqqah. Tel Zedan, hill running N. and S. about 2 m. to r. Raqqah. Track now WNW., partly in the plain, partly along the edge of the desert plateau. Ruin of Hiraklia, a rectangular fortress, almost square, with a series of vaulted chambers forming the outer parts of the block and apparently larger vaulted chambers filing up the centre. At the angles are four round towers. The masonry is mostly of unsquared stones laid in a bed of very coarse mortar mixed with small stones, but the vaults are of brick tiles. The fortress is ringed round by an outer wall now completely ruined. Beyond it to		Miles from	
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Descend and cross a dry stream-bed. Emerge from the defile on to the plain. Tel el-Khumeidah, isolated hill about 2 m. to 1. Reach the Euphrates at the upper end of a western bend. El-'Aleh. Afadleh tent-village in tamarisk jungle 1½-2 m. to 1. 201 El-Khās, tent-village in a clearing. Track now passes through tamarisk thicket. Pass Imām Abu Sa'īdeh, Moslem shrine and cemetery. Jedīdeh, tent-village. Khirbet Hadawi. Meida. Grassy mounds near the river. Some distance beyond this point an area surrounded with a deep ditch is crossed. Khirbet Hadawi. Meida. Grassy mounds near the river. Some distance beyond this point an area surrounded with a deep ditch is crossed. Khur el-Jebel. Encampments in the neighbourhood. Pass the Jebel Munkhir, a volcanic ridge 1 m. to r. which rises several hundred feet above the plain. From the summit the Jebel Munkhir esh-Sharqi can be seen lying about 3 m. E., and almost due N. on the horizon rising ground called Jebel 'Ukala (Tulaba). Limestone tel with traces of masonry on the top. Reach the Belikh and cross by a ford or a light wooden bridge. In the early spring of 1908 the Belikh was a muddy brook. In Dec. 1879 the ford was girth high, and the river seemed likely to be unfordable after heavy rain. Cross marshy ground as far as Raqqah. Tel Zedan, hill running N. and S. about 2 m. to r. Raqah. Track now WNW., partly in the plain, partly along the edge of the desert plateau. Ruin of Hiraklia, a rectangular fortress, almost square, with a series of vaulted chambers forming the outer parts of the block and apparently larger vaulted chambers filing up the centre. At the angles are four round towers. The masonry is mostly of unsquared stones laid in a bed of very coarse mortar mixed with small stones, but the vaults are of brick tiles. The fortress is ringed round by an outer wall now completely ruined. Beyond it to		1833	Qabr el-Abu Atiq, ruins, 150-200 ft. above the Euphrates,
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	REMAIN BOTH		
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	REAL CO.		



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٣٠٣] (٢١٣/٣١٤)

		(154)
	ROUTE 47 300	3
Miles from		
Ānah	SE. of the central fort, is another mound. Still farthe to the S. is a third mound, Tel Meraïsh, with a secondyke to the S. of it. The two dykes appear to have been loop-canals from the Euphrates.	d
250	Pass Tel 'Abd 'Ali, about 1 m. from the river. Track nov through thickets of tamarisk, thorn, and blackberry. N	v o
	trace of settlements.	
$257\frac{1}{2}$ 260	The cliffs approach the river. Tel Bellani, a prominent landmark by reason of a number of bare tree-trunks set to mark an Arab cemetery.	
266 268½	Track now approaches the river under low cliffs with caves. This neighbourhood is called Kudiran , and is a favourit camping-ground of the Anazeh in summer. Mahariz, district with ruins. Track proceeds along the	e
-	river.	
$271\frac{1}{2}$	Kahf ez-Zakk, traces of houses on a bluff. Weldeh cam here in 1909.	
273	Pass Qal'ah Jābir, ancient fortress with a minaret. Ruin of a tower called Neshā'ib to NW. on an isolated hil Tel el-Afrai some distance farther on. The landwar	1.
	side of the mound is protected by a dyke forming a loo from the Euphrates. Country now desert. Line of hills 1½-2 m. to r. Swarm of locusts seen here in 1911.	P
285	Reach a bend of the river. Dibsi tower opposite. A short distance above this point it is said to be possible for camels to cross in summer.	rt
296	Track now NW. Ferry opposite Meskeneh.	
200	Telly opposite and an arrangement of the second of the sec	





"كتيّب بلاد الرافدين. المجلد الله ١٩١٧ [٥٠٣] (٤٣٢/٣١٤)

ROUTE 48 305 (A) Account of a journey by motor-car from Anah to Baghdad in September 1909. Water for the journey was carried from the Euphrates. About 1½ days. First day. Cross river at Anah. This was a matter of considerable difficulty, as piers had to be improvised. Leaving river proceed over stony ridges, which continue for an hour or more (but see (C), hrs. $0-1\frac{1}{2}$). Then traverse level plain of hard soil, and after 1 hr. of excellent going reach a well of bad water. Soon afterwards reach a strip of crystallized gypsum, which took 3 hrs. to cross: bad going. Then pebbly ground, generally good going, though soft in places. Reach Helwat wells, better water (compare (C), hr. 433). Here halt was made for night. Second day. For about 80 m. from Helwat the ground is hard and level, with only occasional stretches of soft sand. Numerous Then reach nomad encampments, then dried marshland ('Agarqūf?), which could only be taken slowly (compare (C), hr. $66\frac{1}{4}$). Thence to on Am Kazimain. orsebut proposed (B) on the Baghdad—Anah by motor-car, November 28-29, 1909. Bughisi running time, 22 hrs. aber the First day. Very little difficulty: a good day's running. joung puncture. etly bro Second day. In the first part of the day's run, many difficulties nt Said with wadis. Then excellent running till 3 p.m. The Wadi Tartar, Tigris & which flows into a salt lake about 30 m. from Hit, was found to ing one be in flood, and could not be crossed at the point where it was struck, owing to the bottom being of soft mud. An Arab showed the way to a crossing where the bottom was hard. The water was about $\frac{21}{2}$ ft. deep, and stones and branches of shrubs were placed in the ongh in river to assist the passage of the car. There was some difficulty in regul getting the car through, but in the end it was pulled out with the TO SIDE help of some Arabs. On the other side of the Tartar the going was d nen good for most of the way to Anah, but it was necessary to go slowly 27. III in some places lest the tyres should be cut by the small sharp stones projecting through the ground. No difficulty in crossing the river opposite Anah, as shakhturs and landing-piers had been prepared beforehand. MES. III

"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٣٠٦] (٣٠٦/٣١٥)

306 LAND ROUTES
(C)
Account of a ride from Ānah to Baghdad, autumn 1908. See above. Total travelling time, 81¼ hrs. The times given below are said to be for travelling on horseback at moderate speed. Apparently this would make the total distance about 240 m. On the map the distance in a straight line from Baghdad to Htt is 160 m. The difference is perhaps accounted for by the necessity of going by wells, and by the Arab habit of marching not by compass but from landmark to landmark. But in view of the uncertainty as to rate of progress, &c., no attempt has been made to give an estimate of the miles from point to point. Times are given in the margin. The places mentioned between the point opposite Ānah and Kazimain are not villages, as these do not exist in this region. They are merely localities in the desert known to native guides. Hours Anah. Cross the river (shakhtūr ferry) to the 1. bank. Land on 1. bank near minaret called El-Khedimeh. Hence a road over a level plain of small pebbles and gravel (but see (A) above) leads to Mutaridat. Level plain of pebbles stretches as far as Mufrak el-Dorūb. Murkub el-Faris. Garaa umm el-Kubar. Mufrak ed-Dorūb. Level plain. Hard borax ground with pebbles. Toqtāgeh. Level plain with small pebbles. Rās Annab. Habīb en-Najjār. There is a ditch here along which a carriage could travel with ease, the ground being hard. Between Habīb en-Najjār and Nokheileh are two ravines, one of which can be easily crossed. At the other is broken ground extending for a distance of about ½ hr.: this can only be crossed at low speed. Nokheileh. There is a spring here, the water of which is brackish and rather stagnant. Route now crosses a level plain of borax ground. Ghobeini. Level plain of hard borax ground. Mustafej. Route crosses level plain on which is a well of brackish stagnant water.



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٣٠٧] (٣٢/٣١٦)

Hours 18\frac{1}{2} Goreineh. Level ground, pebbly. Abu Rumaneh. Route now crosses level ground on which is a well of good drinkable water. Abu Jumaa. Part of the way between this point and Oneizeh lies over undulating ground, which would not hinder a carriage from travelling quickly. Coneizeh. Track runs over a level pebbly plain extending as far as Tahali (63\frac{1}{4}\text{ hrs. below}). Qasr el-Jarin. Et-Tawil. Between this point and Rukheimi is a well of good water. Rukheimi. Ras Wādi el-Idi. Helwat. According to the account (A) of a motor-journey from Anah to Baghdad there are wells with fair water here. El-Had. Well, good water. El-Joerishi. El-Joerishi. Ed-Baraj. Mughaireh. Gulayeb Zaid. Anazi. Tahali. Between this point and El-Mugayer, hard red ground. El-Mugayer or Ras 'Aqarqūf. The route now crosses undulations, over which carriages must travel at a slow pace. The country is liable to floods from the lakes at El-Mugayer. Several wells containing good water are found on this part of the route. Ruweis. Route now traverses level plain of pebbles mixed with hard red earth. Ed-Deir. Route crosses level pebbly plain to Steih. From here undulating track: ground liable to be flooded from the Tigris in the high-water season. Sarrakheh. Nature of track and ground as above. Kazimain. Made earth road along tramway to Baghdad.		ROUTE 48	307	
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"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٣٠٨] (٣٢/٣١٧)

308 LAND ROUTES
ROUTE 49 a
MOSUL—DEIR EZ-ZOR (191 M.)
Via 'AIN EL-GHAZAL
Authorities:—Routes in Arabia, Route 191, report of 1914; Military Report on Arabia Route 23, report of 1903; Sarre and Herzfeld, Archäol. Reise im Euphra und Tigris-Gebiet, journey of 1907-8; E. Sachau, Syrien und Mesopotamien journey of 1880; Sykes, The Caliph's Last Heritage, journey of 1906; recent unpublished information.
This route is fit for wheeled traffic the whole way. Going is heavy after rain. Water is plentiful at each of the camping-grounds, but none between stages during the dry season, which renders the rout impracticable for infantry. There are practically no supplies except at Deir ez-Zor. The Yezidis of the Sinjar have made this rout unsafe in parts since the outbreak of the war.
Miles from Mosul
Mosul. From Mosul to Tel A'far there are two possible routes.
(i) Northern Route. This is passable for wheeled traffic.
The track leads over flat or undulating country and the rises over spurs of the low hills W. of Mosul, crossing a number of small ravines. Humeidat village about 1½ m. N. of the road. The ridg behind it runs close to the r. bank of the Tigris. Route crosses Wādi Badosh, with some cultivation along
its banks. Khān Lubgilleh? (see note under m. 39). Route crosse a small flat plain called Ed-Daulaieh. Khirbet ed-Daulaieh (Khirbet el-Baghleh?), ruined village Northern end of a long ridge called Jebel Atshāneh running in a SE. direction, is passed. Undulating country.
21½ 22 A group of tels is passed. To the S. lie two hills called El-Mujelīnāt, about ½ mapart, one directly S. of the other. A wadi is crossed. This wadi, or possibly another crossed in the neighbourhood, is called Wādi Debuneh, which was reported in 1880 as probably containing water a most seasons. The depression in which the Wād



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		157)
	ROUTE 49 a 309	
Miles from		
Mosul	Debuneh lies is thickly strewn with large blocks of	
Court of F	stone. In the plain to NE. of it is a hill called Tashtah,	
- + 111	near which there is said to be a spring. The plain is bounded on N. and S. by low ridges running NW. and	
	SE.	
$26\frac{1}{2}$	Uch Tepeh, three tels about $\frac{1}{2}$ -1 m. S. of the track.	
$28\frac{1}{2}$ $29\frac{1}{2}$	'Ain el-Beidhā, three springs near a small hill. Abu Miriam, small village on a tel. Spring on W. side	
202	of the tel, and cultivation in plain to W. There are	
W- IA	several other tels in the plain. A ridge bounds the plain to N., 3-6 m. distant, running in a NW. direction.	
301/4	A wadi is crossed. Track rises very gradually.	
$34\frac{1}{2}$	Route reaches the top of the gradual slope, here crossing	
	the line of the low hills called Jebel Mehleibiyeh. It then gradually descends a valley (cultivated in 1880),	
	with low hills on either side.	
$37\frac{3}{4}$	Route passes a rain-water pool. A little farther on is a cistern.	
39	Tel A'far.	
200	The following account has been based on the information of an	
	Arab officer in the Turkish service who in August 1914 traversed the route from Tel A'far to Mosul in 13 hrs. by carriage:—	
	Miles 0 Mosul.	
	16 Cross Wādi Badosh. 18 Khān Lubgilleh.	
	23 Re-cross Wādi Badosh at Khān el-Baghleh.	
	31 Abu Miriam. 38 Tel A'far.	1
	CV Comment Portrait	
mı ·	(ii) Southern Route.	
northern	ppears to be rather worse supplied with water than the route.	
Miles from	of the same of the	
Mosul	Mosul. The route is said to run for about 6 m. over	
7	a cultivated plain.	
7 9	Route passes through low stony hills (Jebel Atshaneh?). Route emerges into open, undulating, cultivated country,	
10	which is traversed as far as Muwali.	
16	Muwali, village of Jebür Arabs. Water supply from one brackish well and in winter from rain-water. Between	
	Muwali and Tel A'far water is very scarce. Route leads	



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310	LAND ROUTES
Miles from	
Mosul	for some miles over open plain, with some cultivation
Manage 1	and good grazing. Two hills also called Muwali lie near the village.
191 1	Mujelīnāt, small settlement of semi-nomads, with bad water from springs.
22 I	Route runs over bare undulating ground at the foot of low
26 1	hills, as far as Tel A'far. Dubulu, small village.
	Cel A'far.
4.1.1.1.1.1	A recent authority gives the following times from Tel A'far to Mosul:—
*************	Hrs. 0 Tel A'far.
	34 Dubulu. 5 Mujelīnāt.
	6 Muwali. 8 Jebel Til Atshān (Jebel 'Atshāneh?).
	11 Mosul.
П	Cel A'far, which is the residence of a Mudir, consists
	of about 3,000 stone houses. In 1906, the population
	had apparently been much depleted, the decline being due partly to recent attacks of the Shammar, partly to
	an epidemic of cholera some years previously. But a
	traveller who passed through the place in the winter of
	1907–1908 estimated the population at several thousands. The inhabitants are mainly Turkish, with some Kurds.
	The Turkish inhabitants are indistinguishable in dress
	and appearance from the Arab fellahin, and many of them understand Arabic. There is cultivation to N.
	and S. of the town. Sufficient supplies for caravans are
B. H. ST.	obtainable. Tel A'far is unwalled and stands on both sides of a stream, the water of which is slightly
	sulphurous. On a plateau overlooking the town from
	the E. is a building formerly used as a guard-house, and on the W. side is a hill several hundred feet high, on
20	which are the ruins of a citadel called Qal'at Marwan.
39	From here, the track strikes SW. across the desert.
69 .	Ain el-Ghazal, small village with khan. 10-12 hours by
7150 Deer	carriage from Tel A'far. No supplies available but good water from spring. Route goes in a general SW.
The same of	direction.
-	



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		(158)
	ROUTES 49 a, b	311
Miles from		
Mosul 96	El-Bid'ah. Eight hours by carriage from 'Ain No village; wells of brackish but drinkable wa to find without a local guide.	ter difficult
	From here Shedādi is 8 hrs. ride over flat sandy des Hamda.	sert via Abu
	General direction SW. across open desert with s on the r. The going is good in the dry seaso heavy after rain.	everal hills n, but very
128	Fadgham, small village on the Khabūr, with kand a half hours by carriage from El-Bid'ah. are available, but there is an ample supply of from a stream. Irrigation by water-lifts.	No supplies
140	Authority of 1880 left the plain and went throughouse: the cliffs receded, forming lines of his which the track ran for about 9 m. But this the track followed by the carriage-road.	ills between
160	Cross Khabūr River, here 35 yds. broad, by a f Sawwār, small village with a khan, on the r. l Khabūr River. It is the head-quarters of	bank of the
	Zaptieh post. Mound and ruins. Sawwār is 7-8 hrs. from Fadgham. The track now strikes W. across the desert.	
1001	Cross an area intersected by many dry water-co contain salt. The name of the district is El-	urses which Melha.
166½ 181	About here is the watershed between the Kha Euphrates.	būr and the
189	Reach the edge of the Euphrates Valley. Track now WSW. across the alluvial plain. Deir ez-Zor, bridge. 7-8 hrs. from Sawwār.	
	ROUTE 49 b	
	MOSUL—DEIR EZ-ZOR (223½ m.)	
	Via Beled Sinjar and Shedadi.	
	es as for Route 49 a ; also E. Sachau, Am Euphrat und Tigris, j	
Wat and Sl	er is scarce and apparently usually brackish betweedādi, and between Tel Sawwār and Deir. E	veen Sekenik except in the

"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٣١٢] (٣٢/٣٢١)

	312	TAND DOLLARDS
		LAND ROUTES
	be exp	ourhood of Sekenik and parts of the Khabūr Valley there is evation, and nowhere can any appreciable quantity of supplies ected. There is good grazing in spring in the Khabūr For Vezidi raids, see p. 308.
	Miles from Mosul	
	39	Mosul. For routes as far as Tel A'far see Route 49 a. (Mileage continued from route (i) under that heading.) Tel A'far.
		From Tel A'far to Beled Sinjar the route is generally easy, running over open undulating ground or cultivated plain; but in January 1880 the going was soft, as the result of melting snow. Up to the Solaq Chai (2½ m. from Beled) the water on the route, though plentiful, is brackish, and only just drinkable.
		For $11\frac{1}{2}$ m. beyond Tel A'far the route goes across an undulating plain slightly depressed in the middle, bounded by ridges to N. and open on the S. A number
	3934	Stream flowing S. crossed (January 1880). Apparently about this point, or a short distance farther on, a group
	42 46	of tels are seen at about 1 hr. ride to S. Tel Wardān, large eminence. Cross wadi with water (December), some cultivation on its
	48	Cross Wādi Ibreh with abundant water (December). On
	401	the further side, cultivation extending to the Wadi Mujeirat (m. 51).
	$\frac{48\frac{1}{4}}{48\frac{1}{2}}$	Site of deserted village of Ibreh (1907). Tel Ibreh (called by local Arabs in 1880 Khirbet Seyyid Kleb). The tel contains some modern cave-dwellings.
	50	Stream running SE. is crossed (this is apparently the Wādi Sharai, and seems to be the 'small boggy stream' described by a recent authority as a branch of the Wādi Ibreh lying 2½ m. from it).
	50½ 51	Tel er-Rus, a few hundred yards to S. of track. Stream flowing SE. is crossed. This is apparently the Wādi Mujeirat: a recent authority mentions the Jibbareh Chai as a small boggy stream 3½ m. from the Wādi Ibreh.
	1	Tel Abu Fuseikeh lies apparently about $\frac{1}{2}$ — $\frac{3}{4}$ m. to the N. on the l. bank of the Wādi Sharai. Cultivation and small villages near it.
	513/4	Cultivation apparently ceases in this neighbourhood.
4		



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٣١٣] (٣٢٣٢)

		(184)
	ROUTE 49 b	313
Miles from		
Mosul 54	'Ain esh-Sharīd, ruin-field, and spring near which is so cultivation. Low ridge running W. begins on N. It 1-2 m. from the track.	is
55	Between this point and m. 57 are several water-cours Apparently in this neighbourhood (2½ hrs. ride from Wādi el-Ibreh) lies the spring of 'Ain Tīneh, under the ridge to the N., ¼ hr. ride WSW. of it are said lie the four springs of 'Ain el-Ghassān, lukewarm a	to
	sulphurous. To SSW. from 'Ain el-Ghassān, about one day's march distant, is so a hill called Tel Tartar, in which a tepid sulphurous spring ta its rise. This spring was believed by a traveller of 1880 to a head of the Tartar River. Other springs feeding the Tarseem to lie near Beled Sinjar.	kes be
57	Wadi containing water (December). This wadi is apparent a short distance W. of 'Ain el-Ghassān.	tly
62	El-Khān, ruins of a large khan beside the track. Spring in the neighbourhood called El-Hararat, or 'Ain Khān. In 1906 the Mendikan tribe was encamped he	el-
	The bulk of the tribe are Yezidi by religion, but Sheikhs and some of the families are Moslem. Groufrom about here to Beled Sinjar was reported as ve	the and
	soft in January 1880, owing to the melting of snow the hills.	
621/2	Cross large wadi with steep banks. To N. $(1\frac{1}{2}-2 \text{ m. o})$ tant) are a number of hills, outliers of the chain cal Et-Tōq. These hills run in a line parallel with	led
641	water (about WSW.). Beyond them to NW. (not yet sight) lies the eastern end of the main Sinjar range. Village about \(\frac{1}{4} \) m. to N. of track. Four tels in a l	in
65	running E. and W. lie in a plain to S. Cross Wādi Dājis .	
$65\frac{1}{2}$ $66\frac{1}{4}$	Cross Wādi en-Naml. Cross Wādi Delukhān. About this point the first peof Jebel Sinjar comes in sight.	eak
68 <u>3</u> 70	Deep wadi. Cross wadi.	
71½	Cross stream. Large Yezidi village of Mihrkan to N. the slopes of a hill (1880).	
72	Pass Qara Tepeh, or Tel Aswad, which lies to N. track.	of
721/4	Pass Esh-Keptah village, lying to N. of track.	- 4

"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٣١٤] (٣٢/٣٢٣)

314	LAND ROUTES
Miles from Mosul 73 74 ¹ / ₄ 76	Solaq Chai (sweet water). A number of small streams occur between this point and Beled Sinjar. Cultivation to S. of track. Beled Sinjar.
	Times given for the journey from Beled Sinjar to Tel 'Afar by a recent authority:— Hrs. 0 Beled Sinjar. A tepeh on left (N.) Solaq Chai. 1 Esh-Keptah. 1½ 6½ 6½ Kherāleh Tepeh (?). 7 Iabrah Chai (Wādi Ibreh). Tel A'far.
$77\frac{3}{4}$ $78\frac{1}{2}$ 80 $81\frac{1}{2}$ 82	The modern town of Beled Sinjar comprised about 400 houses in 1903. The land to N. and S. of the town is cultivated, and probably a fair amount of supplies would be available in normal years. The figs of the neighbourhood are famous in the E. The modern town, which is inhabited mainly by Yezidis, lies on the E. slope of a valley running from N. to S. watered by a stream. It is dominated to N. and W. by the Et-Tōq chain of hills. It contains a khan, Turkish barracks, and Turkish Government buildings, all of which lie on the top of the slope. The place is the residence of a Kaimmakam, and lies in the Vilayet of Mosul. The houses are solidly built in the Mosul style. The town formerly covered a much larger area, including the western slope of the valley, where now there is a ruinfield. The remains of the ancient walls are to be seen. Kebalish village. Daqiqeh, Yezidi village, about 1 m. to r., and Kānisark, to l. Qizil Khān, about 2 m. to r. Gabara, about 2 m. to r.
83½ 86	Cross wadi and pass Debusi village. Fairly level, stony track running past cultivation. Wurdi, alt. 1,500 ft., village of 90 Arab houses on the plain, 1 m. from the hills. One large spring of good water and one mill. Jeddaleh, Arab village, to r. Cross wadi.



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3		
		(160)
		ROUTE 49 b 315
	Miles from	
streams	Mosul 89	Khubazi. Highest points of the Sinjar range, two peaks,
	92	mejlumi, ½ m. to r. at the foot of the hills. Tel Heyyal
	-	½ m. to l. Track passes two (ruined?) shrines called 'Abd el-'Azīz and 'Abd el-Qādir.
'After by	95	Sekenik (or Ghiran), a Yezidi village lies in a ravine of
		Et-Tōq hills to N. of route. It comprises about 100 houses. From the ravine a stream runs into the plain;
	lace.	it is there crossed by the route. For alternative route from Sekenik to Shedādi see Route 49 c, and for route
	ot the s	from Sekenik to Nisibin see vol. iv, Route 88 b.
		From Sekenik the route goes SW. over cultivated land occupied by Yezidis.
	104	Cultivated land ends in this neighbourhood. Route traverses
out 400	111	undulating steppe. Es-Sihl, a watercourse. A Yezidi encampment was found
town is s would		here in March 1899. Between Es-Sihl and 'Ain el-Hawariyeh (m. 134), the
e neigh- n town		ground is a heavy red clay with numerous outcrops of gypsum. Native information, given in 1880, mentions
the E		two springs between Es-Sihl and El-Goneh. These are
ed by a Et-Toq		named El-Qasabeh and El-Mu'allaqāt. The route bears more westerly. Low line of heights
arracks, a lie on	1151	(El-Jereibeh) to N. West end of El-Jereibeh hills lies to N. of route. Wide
nce of a	1102	view over the plain in the direction of the Khabūr. The
. The le town		'Abd el-'Azīz hills, on the farther side of the Khabūr, are seen to WNW.
ing the	130 .	Route takes a general SW. direction. El-Gōneh, a spring near a tel. The water here was said in
e seel	200 .	1880 to be bad.
nisark,	134	Beyond El-Goneh, cross a ridge. 'Ain el-Hawariyeh, a spring near a tel. The overflow of
	139	the spring forms a small brook. Wādi edh-Dhiāb (wolf's valley) is crossed. Jebūr encamp-
etas:	153	ments in spring 1899.
story	199	Left bank of the Khabūr , opposite the <i>tel</i> of Shedādi. The river is here crossed. There was a ferry before the war.
on the d good		Shedādi, on r. bank, a long low hill overlooking the river. Towards its northern end it rises in a conical eminence
107		about 100 ft. high. On its lower southern part is a mud fort with accommodation for several dozen zaptiehs.
		fort with accommodation for several dozen supreme.
1		



"كتيّب بلاد الرافدين. المجلد الله ١٩١٧ [٣١٦] (٣٢/٣٢٥)

31	LAND ROUTES
Mi	s from
1	There are a few ruins of sun-dried brick and some tomb
	on the fill. Defore the war there was a store at Shade
	I requested by the nomads of the neighbourhood The
	place was the residence of a Mudir under the Mutessar of Deir.
	The route now turns in southerly direction and runs over
	open desert down the western side of the Khahi
1	Valley. Route comes close to river bank, crossing a large deep wad
	Village on opposite bank in a crook of the river (1908)
	Between this point and Marqadah (m. 176) the track
1	usually 1–2 m. from the river.
1	A low northern prolongation of Hammeh plateau begin to W. of route and runs about parallel with it for som
	miles.
	Fadgham to E., on the l. bank of the Khabur. Tel Shemsaniyeh, mound and ruins, to E. on the r bank.
1	71/2 Tel Shemsaniyeh, mound and ruins, to E. on the r. bank of the Khabūr.
	Beyond this point the route runs close to the foot of the
1	Hammeh plateau to W.
1	A part of the Hammeh plateau called Khiskhur . Here the plateau edge recedes W. in a crescent. Three small roun
	summits, called Tulul el-Ma'zah, rise from the top of
	the plateau 8-9 m. to W. Route runs SSW. across th
1	plain. $3\frac{1}{2}$ Tel to r. of road about 1 m. distant, near the foot of the
	3½ Tel to r. of road about 1 m. distant, near the foot of the plateau which is here converging on the route.
4.	Track crosses a shallow wadi.
1'	Total die de la
	Khabūr. The SE. corner of the Hammeh plateau clos to the tel on the W. Route now skirts the river bank.
17	6½ Cross mouth of Wādi el-Hammeh, which runs in from the
	NW. and forms the SE. boundary of the Hamme
	plateau. River now makes a bend to the E. and the route leaves the river bank, continuing SSW.
17	Route touches river bank, and continues down the valley
18	cutting off the easterly bends of the stream.
	Route passes a point on the river where there is a force called Esh-Sherī'āh. A little way below the ford rock
40	are visible in the stream (at least in August).
-18	Pass Tel el-Husein, mound and ruins on l. bank. The
	river winds very considerably here.
119	



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For the next 9 m. the route traverses a tract called Umeilih. Tel Umeilih. Tel Umeilih. Sawwär. (For the route from here to Deir, see Route 49 a, m. 160.) Deir ez-Zor. ROUTE 49 c SEKENIK—SHEDĀDI Via Shillo Pass, Khātūniyeh Lake, and Tenenir Authorities as for Route 49 a except Sykes; Layard, Nineveh and Babylon, journey in 1850. This route passes to the N. of the Jebel Sinjar, turns W., and strikes the Khabur at Tenenir, 40-45 m. above Shedādi. It is about 25-30 m. longer than the direct route from Sekenik to Shedādi described above, but is apparently much better supplied with water. Nille form Sekenik. The route runs along the southern foot of the Et-Toq hills. Kolang Hafzah, Yezidi village with five good wells to l. Track enters hills. The Shillo or Bari Pass is described as rough and stony, but not particularly difficult. A valley through the Et-Toq hills is first followed in a N. direction. At the N. end of the valley rises the main Sinjar range. N. end of valley through Et-Toq hills. Here two valleys meet, one from ENE., the other from NW: the former runs between the Et-Toq and Jereibeh ranges to W. and the Sinjār to E. The track follows this latter valley leading NW. Shillo, Yezidi village, to r. near the mouth of the valley which runs ENE. Cultivation near the village. The track winds over rocky broken ground. Mamhuwed, 50-60 dwellings inhabited only in summer.			(161)	
For the next 9 m. the route traverses a tract called Umeilih. Tel Umeilih. Sawwär. (For the route from here to Deir, see Route 49 a, m. 160.) Deir ez-Zor. ROUTE 49 c SEKENIK—SHEDĀDI Via Shillo Pass, Khātūniyeh Lake, and Tenenir Authorities as for Route 49 a except Sykes; Layard, Nineveh and Babylon, journey in 1850. This route passes to the N. of the Jebel Sinjar, turns W., and strikes the Khabūr at Tenenir, 40-45 m. above Shedādi. It is about 25-30 m. longer than the direct route from Sekenik to Shedādi described above, but is apparently much better supplied with water. Sekenik. The route runs along the southern foot of the Et-Toq hills. Kolang Hafzah, Yezidi village with five good wells to l. Track enters hills. The Shillo or Bari Pass is described as rough and stony, but not particularly difficult. A valley through the Et-Toq hills is first followed in a N. direction. At the N. end of the valley rises the main Sinjar range. N. end of valley through Et-Toq hills. Here two valleys meet, one from ENE., the other from NW.: the former runs between the Sinjar and Et-Toq ranges, the latter between the Et-Toq and Jereibeh ranges to W. and the Sinjar to E. The track follows this latter valley leading NW. Shillo, Yezidi village, to r. near the mouth of the valley which runs ENE. Cultivation near the village.		ROUTES 49 b, c	317	
Via Shillo Pass, Khātūniyeh Lake, and Tenenir Authorities as for Route 49 a except Sykes; Layard, Nineveh and Babylon, journey in 1850. This route passes to the N. of the Jebel Sinjar, turns W., and strikes the Khabūr at Tenenir, 40-45 m. above Shedādi. It is about 25-30 m. longer than the direct route from Sekenik to Shedādi described above, but is apparently much better supplied with water. Sekenik. The route runs along the southern foot of the Et-Tōq hills. Kolang Hafzah, Yezidi village with five good wells to l. Track enters hills. The Shillo or Bari Pass is described as rough and stony, but not particularly difficult. A valley through the Et-Tōq hills is first followed in a N. direction. At the N. end of the valley rises the main Sinjār range. N. end of valley through Et-Tōq hills. Here two valleys meet, one from ENE., the other from NW.: the former runs between the Sinjār and Et-Tōq ranges, the latter between the Et-Tōq and Jereibeh ranges to W. and the Sinjār to E. The track follows this latter valley leading NW. Shillo, Yezidi village, to r. near the mouth of the valley which runs ENE. Cultivation near the village. The track winds over rocky broken ground.	187 192½	Umeilih. Tel Umeilih. Sawwār. (For the route from here to Deir, see m. 160.)		
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strikes the Khabūr at Tenenir, 40–45 m. above Shedadi. It is about 25–30 m. longer than the direct route from Sekenik to Shedādi described above, but is apparently much better supplied with water. Miles from Sekenik	Author	ities as for Route 49 a except Sykes; Layard, Nineveh and journey in 1850.	Babylon,	
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meet, one from ENE., the other from NW.: the former runs between the Sinjār and Et-Tōq ranges, the latter between the Et-Tōq and Jereibeh ranges to W. and the Sinjār to E. The track follows this latter valley leading NW. Shillo, Yezidi village, to r. near the mouth of the valley which runs ENE. Cultivation near the village. The track winds over rocky broken ground.	and an	valley through the Et-Toq hills is first followed direction. At the N. end of the valley rise	s the main	
Sinjār to E. The track follows this latter valley leading NW. Shillo, Yezidi village, to r. near the mouth of the valley which runs ENE. Cultivation near the village. The track winds over rocky broken ground.	5	runs between the Sinjar and Et-Toq ranges between the Et-Toq and Jereibeh ranges to	s, the latter W. and the	
which runs ENE. Cultivation near the village. The track winds over rocky broken ground.	5 <u>1</u>	Sinjar to E. The track follows this latter ing NW. Shillo. Yezidi village, to r. near the mouth of	f the valley	
	Ripping to	which runs ENE. Cultivation near the villa The track winds over rocky broken ground.	.ge.	



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Miles from	
Sekenik 8½	Watershed about 2,250 ft. above sea level, and about 570
-2	above the plain. Main Sinjār range to r., Jebel Jereibe
	to I. Pass about $\frac{1}{4}$ m. wide.
	At some point on the descent, apparently not far beyon the col, the route to the Khabūr here described diverg
	in a NW. direction from the Nisibin route, which
	proceeds N. down the valley of the Howeir Khal
	stream (see vol. iv, Route 92 a). The route winds among the hills bearing gradually to the V
12½	'Ain Roman, a small spring. Here the track emerges fro
	the pass, and proceeds in a westerly direction over
	undulating plain parallel with the Jereibeh hills, which lie to the S. To the N. the Kurdish mountains a
	visible in the distance. Several small streams flowing
	from the Jereibeh hills are crossed.
14 17	Pass Gyrgeh village.
17	Route bears now about WNW., rising over more sharp undulating ground.
24	Reach a strip of cultivated land bordering the E. side
	the Khātūniyeh Lake. This piece of water is triangula
	with the apex to the N., apparently covering about 4 sq. n in the dry season. Its northern and western sides, and
	least the western part of its southern shore, are marsh
	Its water is brackish but drinkable. The route bea
	to NW. to pass round the northern end of the lak
	(The southern end appears to be less marshy, but the ground there is more undulating. No further detail
	appear to be available.)
$25\frac{1}{2}$	Enter marshy ground N. of the lake. On a peninsula
in the same of	the lake is the wretched village of Khātūniyeh . The track skirts the shore of the lake to its extreme norther
	corner.
$26\frac{1}{2}$	Track emerges from marshes and runs about SW. ov
29½	undulating ground. Track bears about WSW.
$31\frac{1}{2}$	Track runs along a low ridge forming the northern side
+ Herry Th	boggy area called El-Haul (El-Hol), which lies about
the second of	50-100 ft. below the summit of the ridge. El-Haul rather over $\frac{1}{2}$ m. broad, runs E. and W. with a curv
	towards the N., and is bordered on the S. by low spur
35½	of the Jereibeh hills.
16 h L	From this point the Wadi el-Frati, a deep water-cours



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T		(62)	
		POUTE 49 c 319	
		ROUTE 49 c 319	M
70A. Fibel	Miles from Sekenik	running into the Khabūr, about 1 m. above Tenenir, is about 6 m. distant, and can be reached by striking about WNW. across the plain. In the upper part of its course its banks are marshy, and the sides of its valley are apparently broken by small ravines. There are said to	
ges ich ilid W.		based on native information). The direct route to Tenenir continues along the ridge bordering El-Haul, which here trends in a WSW.	
in an high save ring	38	Mound and spring called Tuleil el-Mureir . The western end of El-Haul apparently lies not far beyond this point. After the end of El-Haul is passed the track crosses a bare plain, the surface of which is gypsum. In a few fissures which traverse this plain grass is to be found in spring. Tenenir lies about W. by S. from here.	
ply ref	48	Reach the l. bank of the Khabūr at the mound of Tenenir . No details showing whether or in what seasons the Khabūr is here fordable seem to be available. Either side of the Khabūr can be followed from here to	
ke, n lst by.		Shedādi. As to the facilities or obstacles for wheeled traffic, no information is available.	1
		(i) Route continued by Left Bank.	
in be	F0.	Distances only roughly estimated. Details of wadis, &c., not available.	
E1 PE	$ \begin{array}{r} 52 \\ 54\frac{3}{4} \\ 66 \end{array} $	Tel Suheimīyeh, on l. bank of Khabūr. Tel Ta'ban, on l. bank of Khabūr, which is here cultivated. Tel 'Arabān on opposite side of Khabūr. The l. bank is	
of .	73	here cultivated. Tel Gharqanah on I. bank of Khabūr. The bank is cultivated for some distance below this point and there	
at is re	75½	are two or three villages close to the river. Sher'iāt Ba'ājeh, a ford at a bend of the river a short distance above a village on the r. bank. Cultivation on l. bank.	
113	$77\frac{3}{4} \\ 80\frac{1}{2}$	Village and cultivation on l. bank. Shedādi, on opposite side of Khabūr.	1

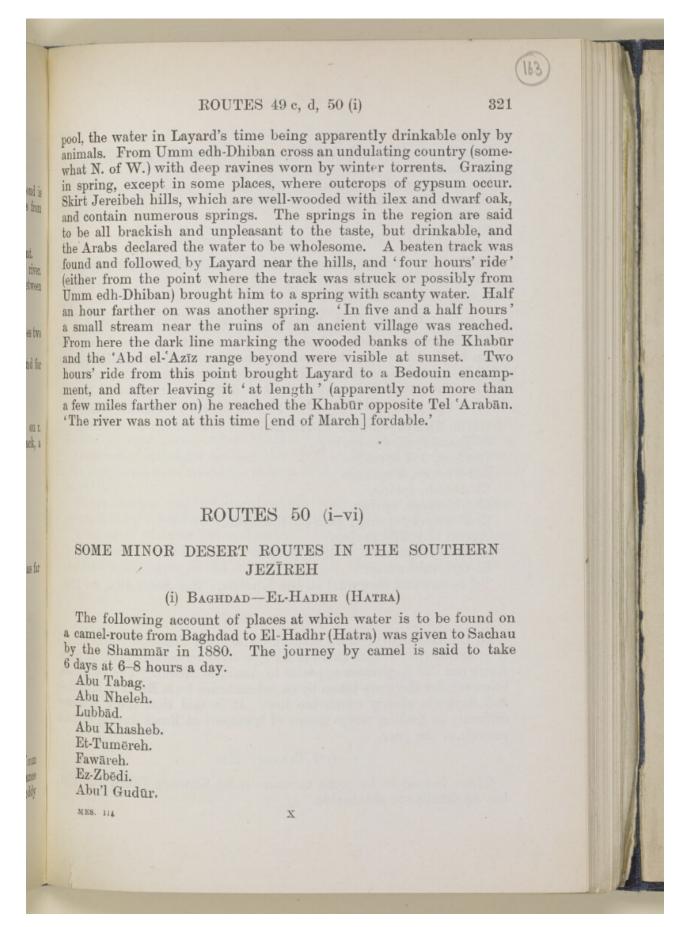


"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٣٢٠] (٣٢٠٣٤)

	320 LAND ROUTES	
	Miles from 1	
	Sekenik	
	(ii) Route continued by Rig	
	Distances continued from Tenenis	
	51½ Tel Mehleibiyeh, on r. bank. the mouth of the Wādi Mehle	Immediately beyond is
	the WNW. into the Khabūr.	ablyen, which nows from
	$52\frac{1}{2}$ Cross another wadi.	
	$55\frac{1}{2}$ Tel Suheimiyeh on l. bank of the Sheikh Sleb, mound and spring	river, 1-2 m. distant.
	56½ Sheikh Sleb, mound and sprin Cultivation along r. bank bel	ow this point between
	track and the river.	
	58 Tel Ta'ban on l. bank of the river. 59 ¹ / ₄ Between this point and Ed-Dughe	
	59 ¹ / ₄ Between this point and Ed-Dughe or three deep wadis.	arat the track crosses two
	613 Ed-Dugheirāt (or El-Mugheirāt),	ruins. The ground for
	about 1 m. S. of this point is ro $63\frac{1}{4}$ Cross shallow wadi.	cky.
	$64\frac{3}{4}$ Old canal bed about 50 paces across	gg.
	67\frac{3}{4} Tel 'Arabān (or Ajījeh), large m	ound and ruin-field on r.
	bank of the Khabūr. Marshy	plain to W. of track, a
100	few hundred yards from the rive Cross small stream flowing into the	
	$70\frac{3}{4}$ Cross small stream.	ie ixnabut.
	$71\frac{7}{2}$ Cross small stream.	
	72 ¹ / ₄ Cross Wādi Qubātheh . 77 Cross wadi. Ba'ājeh ford across	Khahūr
	77 ¹ / ₄ Cross stream.	ixiiabut.
	79½ Track now traverses rolling groun	nd which continues as far
	as Shedādi. 83 Shedādi .	
	- Date Citation	
	ROUTE 49 d	
110	CELEBRITY WHEN THE DOD AND	
100	SEKENIK—THE KHABŪR AT	TEL 'ARABAN
	Via Umm edh-Dhiba	N
	The following route was ridden by Layare	d in March 1850
	From Sekenik the plain S. of the hil	lls is crossed to Umm
	edh-Dhiban. The direction seems to be about	it SW., and the distance
	about 13-15 m., but both are uncertain. Umr	n edh-Dhiban is a muddy



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322

Maras.

Es-Sultāniyat (identical with, or near, Museltain; see Route 25 b, m. 145).

Umm et-Tus wat-twesan, two springs. Hamrat Dubeshi, hill and two springs.

El-Malha.

El-Beniyeh.

Eth-Theliyeh.

El-Hadhr. For the country between El-Hadhr and the Tigris see Route 25 b, under m. 168.

(ii) EL-HADHR-THE KHABŪR RIVER AT TEL ES-SAWWĀR

The following account of places at which water can be obtained is given by Sachau. For the greater part of the route from El-Hadhr to El-Oja the information was obtained by him from the Shammār in 1880. The journey is said to take 4 days by camel to El-Oja, at 6-7 hours a day. El-Oja is 1 day's march from Tel es-Sawwār.

Umm Midhyābeh near El-Hadhr.

Et-Tamahiyat, 4-5 springs.

Fāwārat, 3-4 springs.

Eth-Therey, 3 springs.

El-'Asēleh, spring.

El-Ghlesiyeh, spring.

Et-Tijariyeh, spring: near el-Ghlesiyeh.

'Agelat el-Halib, spring.

Ardh el-Magrabbeh, wells reported.

El-'Oja, rain-water.

Tel es-Sawwar (Sawwar) on the Khabur. See Route 49 a, m. 160.

(iii) ANAH-Mosul

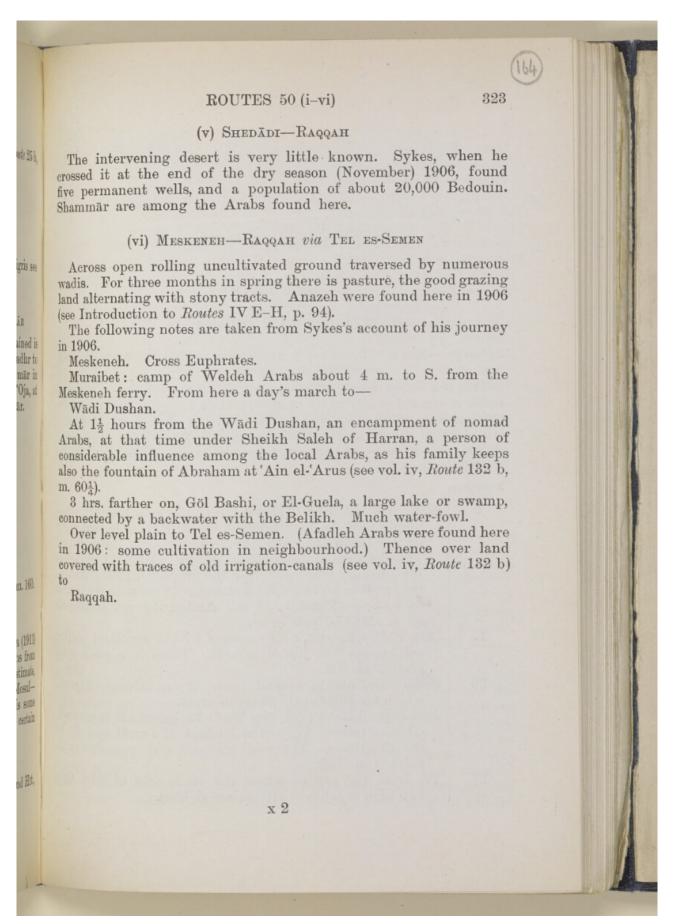
In the Board of Trade's Report on British Trade in Syria (1911) it is stated (p. 80) that there is a route used by camel-caravans from Rawā (on the Euphrates opposite to Ānah) to Mosul. The estimate, however, for the time taken by camel-caravans from Rawā to Mosul—4–5 days—is clearly much too low. It is said that there is some difficulty in finding ready means of transport at Rawā during certain periods of the year.

(iv) TEKRIT-HIT

There is said to be some caravan-traffic between Tekrit and Hit, but no details are obtainable.



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324
THE SYRIAN DESERT
ROUTE 51
HĪT—RAHALĪYEH (81 m.)
Authorities:—Miss G. Bell, Amurath to Amurath, journey in 1909; Routes in Arabia. Route 194, native information, 1909.
This is a desert track. No supplies are obtainable, and drinking water is scanty, except at Rahālīyeh. Here supplies are normally obtainable in small quantities, and some live stock is kept, Here also is a plentiful supply of water from a spring. The water is warm and slightly salt in taste, and may not be wholesome. The fuel-supply at Rahālīyeh is good.
Hīt. For the stage between Hīt and Temāil the following points have been mentioned, but it is possible that they do not lie in the most direct line between these places. The distances to Asibīyeh are estimated from the report of the traveller who went over the ground in 1909. Native information gives a total distance of 78 m. with distances as follows—Temāil 33 m., Asīleh 52 m., Asibīyeh 63 m., Rahā-līyeh 78 m. 'Ain el-'Usfūriyeh, a tiny mound with a spring of water sulphurous but just drinkable. There is a pitch well about 3 m. SE. Jelīb esh-Sheikh, several pools in an outcrop of rock which are sufficiently sweet to drink. Just beyond these pools the Wādi Mohammadi is crossed which stretches W. to the Ghārat el-Jemāl and E. to the Euphrates. The wadi was dry and encrusted with sulphur in 1909. Tel, from the top of which the landmarks of Abu Qīry two high mounds of stones, are sighted.



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٣٢٥] (٣٣/٣٣٤)

		(165)	
	ROUTES 51, 52	325		
Miles from Hit 33 40 40 56 81	Abu Qīr, eight asphalt springs. Ruins of a sm fort, round which are the foundations of howalls, and crumbling mounds of sun-dried brie abundant and used by the Dilaim to raise a for corn and clover, but the insecurity of the too great to allow of permanent occupation. Temāil, wadi and small village with good was a spring. Flocks of goats. Mound with for and unhewn stones. It has a single door bastions at the angles of the wall. Below it is sulphur spring which flows into some cornfiele. Asīleh or Er-Redaf on the Wādi Burdān. of drinkable water. No village. This is a camping-ground of the Anazeh. Track now rises in a gradual slope. On this noticed a great many colocynth gourds, which only to grow where the plain is very dry. Asibīyeh. Four wells of drinkable water. View of palm trees of Rahālīyeh. Rahālīyeh. Oasis surrounded by swamps (Route 17, m. 56).	uses, stone ck. Water ew patches e desert is water from ort of mud and round as a copious ds. Four wells an autumn stage were ch are said No village.		
This in Octol From the but Mice 1884 to to the Turkish Baghda were ta was mo were al recognized.	ROUTE 52 HĪT—DAMASCUS (375 m.) s:—Huber in Bull. de la Soc. de Geog. de Paris, vii, 5 & 6; Geographical Journal, 1914, journey in 1912; Miss G. Be rath, journey in 1909; oral information. is the route followed by the camel-post which was doer 1912. It traverses the desert almost due W. ne seventies of last century the post was in English Pasha was authorized by the Turkish Goverstablish a post to compete with the English one latter being discontinued in the eighties, and the post alone provided for a weekly exchange of letter dand Damascus. Only ordinary letters, not article ken. Each post rider, in addition to the animal of unted, had a reserve camel laden with water. The most exclusively 'Ugeil. Passengers were not ged, but sometimes accompanied the post at their case. The post was discontinued owing to the frequency.	discontinued to Dumeir. dish hands, ternment in the term of the te		The state of the s

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LAND ROUTES

by Bedouin, and post-bags were dispatched by a safer, if longer,

route by Aleppo.

The journey over this route, always monotonous and sometimes dangerous, is extremely trying physically. It may require to be varied to avoid hostile Arabs, and it often happens that the usual wells are thus missed and the traveller left for three or four days without water.

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The camels march from 16 to 19 hours a day, and the halts are so arranged as never to allow a continuous rest of more than 2 or at the most 4 hours. Sometimes tempests of cold wind hinder the advance of the camels. In favourable circumstances and with good dromedaries the distance may be accomplished in about 7 days, but, as in any circumstances delay may occur, it is safer to calculate on the journey lasting from 9 to 10 days. The journey is shortest in the dry weather; longer in winter and spring when the rains make the desert slippery

in places.

The route leads over sandy or gravelly plains, hills or valleys. which are barren or produce only prickly shrubs and tall feathery grass which the camels eat. Over this region wander numerous tribes, the most important of which is the Anazeh. a ghazzu or plundering expedition of the Shammar or other wandering tribes may be encountered. There is most danger of these in winter. as water can then be found in unfrequented spots, so that the marauders are not obliged to visit regular watering-places, always dangerous for them. In the centre of the desert there is scarcely any herbage for the greater part of the year, the plain being covered with black basalt, very trying for the feet of camels. Across the route a succession of wadis run NE. trending to E. Among these the Wādi Haurān, about one-third of the way between Hīt and Damascus is important, as it is principally by means of it that this part of northern Arabia is drained towards the Euphrates some miles above Hīt. The distances are very uncertain.

Miles from Hit 0 $10\frac{1}{2}$

Hit.

Kebeiseh village. Pop. 500 (1882). 50,000 palm trees (1911). Some commerce with the Bedouin in dates and other commodities. Gardens in a separate enclosure to N. of the town. Spring on the border of these gardens; water abundant, but bitter and salt. Sulphur spring. Good drinking water found only in a single well, situated about 1 m. outside the walls, half-way between the town and the shrine of Sheikh Qudr, which has a conical spire.



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		(166)	
	ROUTE 52 327		
Miles from			
Hit	Kebeiseh is the seat of a Mudir. It is subjected to		
	continual depredations from the Anazeh, and is the last inhabited centre on this route until Syria is reached.		
	The route goes WSW.		
15	'Ain Za'zu. There is said to be water here, drinkable but		
	disagreeable. Clover is sown here, as at other springs, for fodder in rainless years. Track follows a shallow		
	valley westwards, and then rises over the Jebel Muzahir,		
	50 ft. high, the first of a number of long bare ridges.		
211	Before Qasr Khebas the land falls suddenly for about 130 ft. Qasr Khebas. Ruin, walls still about 10 ft. high; vault		
$31\frac{1}{2}$	of portal entire. To the N. is a wadi in which are traces		
	of a large masonry tank, now leaky, and half full of		
	soil. Good grass is found round it. Leaving Khebas the route proceeds slightly S. of W. From		11.13
	here to Damascus the route is sometimes called the		
191	Darb Zobeidah. Rijm es-Sabun, small mound with ruined building of		
$43\frac{1}{2}$	large blocks is passed lying about 6 m. to S. A few miles		
	beyond this one enters the Qasr 'Amij district and the		
621	desert of El-Dhai'ah or El-Dhuwai'ah. Qasr 'Amij. No water. The qasr is a ruin built on the		
022	steepest side of a plateau. The only remains are the		
	foundations and the gate with its arch. At a little distance to the W. of the qasr there is a basin nearly		
	40 ft. square, now filled up with sand.		
801/2	Mound or heap of stones, apparently called Rijm es-Sabun.		
$89\frac{1}{2}$	Remains of enclosure walls are found on both sides of the route, and may be traced for about 1½ m.		
921	Cross Wadi el-Mu'aisir which rises about 5 m. SE. of the		
	route and after a course of about 12 m. in a NW. direction		
1021	runs into the Wādi Haurān. Cross the Wādi Haurān . Ruins of Qasr 'Aiwar (Muheiwir)		
2	on the r. bank of the wadi. The arched gate is said to be		
	still standing. The wells of 'Aiwar number twelve, but seven are filled up. They are in the bed of the wadi, and		
	have been dug in the gravel, their walls being made up		
	with large round blocks taken from the wadi. The		
	water, which is very good, is found 13 to 14 ft. down. On the opposite bank, facing Qasr 'Aiwar, there is a		
	ruined tomb, and all around for a considerable area are		
	tombs, this being the burying-place of the Solubbeh, who		



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٣٢٨] (٣٣٧ ٤)

328	LAND ROUTES
Miles from	
Hīt	own the wells. At 'Aiwar the banks of the wadi disappea
	and its bed is filled with pebbles and round block
	showing that the wadi is occasionally torrential. T
	surroundings of 'Aiwar are hilly, of a compact calcareo
	formation. Track now across undulating desert, wi
114½	Arrive at W. extremity of district called El-Dhai'ah or I
	Dhuwai'ah. See m. $43\frac{1}{2}$, above. The less sterile and mo
1521	hilly country of El-Gharah is now entered. Good grazin El-Meluseh , a long chain of hills. Wells. The wells
-	Meluseh are also called Er-Rāh or El-Gherāri.
$160\frac{1}{2}$	Camping-place near the Su'eib Semhān which flows in
171	the Wādi Ratqah, an affluent of the Wādi Haurān. Enter the region of El-Harrīyeh, a stony desert.
$173\frac{1}{2}$	In the next 3 m. cross the three wadis of El-Harriyeh . Ent
	the Sawab tract where the rocks are mostly flint and r
1811	limestone. Cross a small tributary of the Wādi Sawāb.
$186\frac{1}{2}$	Cross a second tributary.
190	Cross a third tributary. These streams are about 20-26
202	broad, with low banks. Cross the Wādi el-Wālij in the district of the same nam
202	Route now runs W. across difficult volcanic country. (The
	may be avoided by a détour to N. through the barr
	Khuweimāt region, where the ground is covered wiffints. This détour is about 12 m. longer than the dire
	route, which it rejoins about m. 233½.)
222	Umm Uwel water-pan.
$233\frac{1}{2}$	Depression of Khōr et-Tanj . Jebel Salan and Jebel Ghurāb lie to N. Ground in this neighbourhood cover
	with small fragments of rocks. More rarely large stor
	are found resembling unhewn blocks. The plain give
	way to country broken by hills and valleys, in whi excellent grazing is to be found.
$249\frac{1}{2}$	Zerqā Kebut district entered. It is covered with bla
9791	basaltic stones.
$258\frac{1}{2}$ $265\frac{1}{2}$	Laqateh district is entered. Enter Esh-Shāmi district.
272	About $2\frac{1}{2}$ m. S. of the route are three water-holes. The
	belong to the Solubbeh, who resort to them in spri
2731	when they contain water. El-Merreh district is entered. Here the stony desert en
2.02	district is entered. Here the stony desert en



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٢٢٩] (٣٢/٣٣٨)

	(167)
	ROUTES 52, 53 329
Miles from	
HIL	and the route begins to traverse a fertile country with
288½	good grazing. El-Hā'il district is entered, crossed by the Wādi Hā'il.
$297\frac{1}{2}$	El-'Aitsah district is entered. It contains the Wādi Sab'ah
310½	Bi'ār. Large square building of hewn stones called Qasr Saigal,
0102	which marks the beginning of the territory of the same
3221	name. Khān Abu esh-Shāmeh, in ruins, with only the lower
022	part standing. The walls are of unhewn stone, and
328	about 8 ft. thick. 'Ain er-Rāhib lies in the hills to r. It is said to hold
	water only occasionally.
330	El-Maqsūreh, large rectangular building in ruins. This is either near to, or the same as, the place called by
	another traveller Birket Senbīn.
336 360	Dumeir, village of houses closely packed together. Damascus.
000	Damasous.
	ROUTE 53
	ADII KEMAT MADMOD (999)
	ABU KEMĀL—TADMOR (228 m.)
	Authority:—Routes in Arabia, Route 188, journey in March, 1910.
	is no direct track. The bearings given are only approximate,
	y indicate general directions. Water is very scarce, especially 51. The time given is 6 (dhalūl) days.
Miles from	
Abu Kemāl	
0	Abu Kemāl. (For track from Erek see Route 54, m. 103.) Bear WNW. (295°) over stony grassy plain with gentle
-	slopes (say 1 in 80).
5	Reach a stretch of broken ground running NE. and SW. The hillocks composing it are about 50 ft. high; the soil
	is stony. The slopes of the valleys between are about
	1 in 30. This broken ground is about 4 m. wide, and is succeeded by the plain with slopes slightly steeper than
	before (say 1 in 60).



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٣٣٠] (٣٣٠ع)

	Miles from Remail 11 Turn (direction doubtful) over a perfectly flat stony plain. Reach two wells 5 ft below surface grounds plantiful
	Abu Kemāl 11 Turn (direction doubtful) over a perfectly flat stony plain.
	11 Turn (direction doubtful) over a perfectly flat stony plain.
	(discould doubtlut) over a perfectly hat stony plain.
	10 D. 1
	Reach two wells, 5 ft. below surface gravel; plentiful
	supply of water, brackish but drinkable. From here NW.
	(320°) over rolling downs story but with about
HIRE FEEL S	(320°) over rolling downs, stony but with abundance of
	grass (March 1910), slopes about 1 in 30. Four wells 5 ft below surface of ground: water good
	water good.
	From here due W. over flat grassy plain. Conspicuous red mound visible from a considerable distance
	The state of the s
	round. About ½ m. W. of this are five wells, 5 ft. below
	surface, water brackish but drinkable. From here W. by N.
	(280°) over a sandy stony plain, grass becoming appreciably
	less, up to m. 87.
	From here W. by S. (260°) over similar ground.
	97 From here W. (270°).
	Reach the Wadi Hail. This is a valley about 1 m. broad,
	which holds running water (according to native reports)
1111	at times of excessive rain. Its bed is about 50 ft. below
	surface of the plain; its sides alone at about 1 in 60
	surface of the plain; its sides slope at about 1 in 60.
1111	Its course is from NE. to SW. According to native
1111	reports it begins at hills to the NE. and runs for a day's
1111	march (say 40 m.) to the SE. of the present track. Also
	according to native reports (a) water can be obtained at
	4 ft. below the surface but is very brackish, (b) there is
	a well of bad water in the wadi about 4 m. SE. of the
	point at which the track crosses.
	From the wadi NW. by W. (300°) over rolling stony downs,
	grazing improves.
100	139 Eight wells, 10 ft. below surface of plain, with good water,
	slightly salt. From the wells W. (270°) up a long broad
	valley, running E. and W., bordered on S. by edge
	of the downs, on N. by salt hills.
	From here WSW. (250°) follow the course of the valley
	. Total the valley.
	just the state of
	de l'all d'itay de loi, and valley ends. I fom here
	SW. by W. (240°).
	212 Track joins the Deir ez-Zor-Tadmor route. (See Route 54,
	m. 103.)
	228 Tadmor.
100	
NEW WAY	

"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٣٣١] (٣٣٠/٣٤٠)

331 ROUTES 53, 54 ROUTE 54 DEIR EZ-ZOR-DAMASCUS re NW. Authorities: - Oppenheim, Vom Mittelmeer zum Persischen Golfe, journey in 1893; \$100 of Lady Anne Blunt, The Bedouin of the Euphrates, journey in 1877; Military Report on Syria, part ii, sources of 1900-10; E. Sachau, Syrien und Mesogood, potamien, journey in 1879; oral information. This is a portion of the regular caravan route between Baghdad and Damascus, both goods and passenger traffic between these two places being fairly regular. Caravans cross each way every 40 or by N. 60 days. The present route occupies about 100 hours. According eiably to a consular report of 1911 the Euphrates is left at Meyyadin, whence one goes direct to Bir Qabāqib; others, however, make Deir ez-Zor the point at which the river is left. The latter is accepted here as the beginning of the route. oroad. The caravan route across the desert consists of narrow footpaths ports) worn by the feet of camels, and of these there may be a dozen or below more at varying distances from one another. In the neighbourhood of in 60. brooks or settlements these paths may become hundreds in number. native The route goes over the Hamad, the 'hard stony desert' which day's extends from the Euphrates Valley and the mountains of Haurān in Also the N. to the easis of El-Jauf in the S., crossing rather hilly country ned at with numerous more or less independent parallel chains running nere is from NE. to SW. of the Generally speaking, the Hamād sinks from W. to E. towards the Euphrates, and also occasionally inclines towards the S. as in OWIS, the NE. part. These are accordingly the directions taken by the numerous wadis by which it is intersected. The water from these numerous slopes and wadis is gathered partly in natural pockets or depressions (radir), where it soon evaporates. Partly, howedge ever, it is collected in a few larger rain brooks, as in the Wadi Gharren and the Wādi Haurān, which flow into the Euphrates. In winter and spring, during and after the rainy season, the steppe which constitutes a considerable part of the route has numerous here Arab camps, and herds of gazelles may be seen. As the vegetation withers the Arabs draw nearer the cultivated districts and are 极能 followed by the gazelles, and the Hamad becomes a desert or desertsteppe in which water is only to be found in a few springs or in a few artificial cisterns or draw-wells. On account of the scarcity of water and the likelihood that marauding parties of Arabs may have been attracted to the few watering-places, the Hamād is seldom traversed by caravans in summer.



"كتيّب بلاد الرافدين. المجلد الله ١١٧ [٣٣٦] (٢٣٢/٣٤)

332	LAND ROUTES
Miles from	1001110
Deir ez- Zor	
0	Deir ez-Zor. The stretch from Deir to Sukhneh take
	about 18 to 24 hrs. going. It is regarded as dangerous
	as the traces of the route to be followed may be oblite
	rated rather easily from the hard soil.
	Route turns S. to ascend steeply to the edge of the desert
51	plateau.
$5\frac{1}{4}$	Reach the level of the plateau. Track runs through
	broad valley, El-Melha ('salt spring'), in which several wadis unite and run thence to the Euphrates.
$7\frac{3}{4}$	Track emerges from the valley.
4	Tel Dimmeh to l. Water has been found here in severa
	pools, but owing to evaporation it is salt and unsuitable
	for drinking.
8	Cross the Wadi el-Kuseiyibeh, and shortly afterwards two
10	other wadis.
$12 \\ 14\frac{3}{4}$	Cross two wadis which unite on the r. of the track.
$17\frac{1}{2}$	Wadi el-Melha.
1,2	Wādi el-Ghir; ruins of a khan on the side of a hill of the same name to l.
$22\frac{1}{4}$	Qabr en-Nasrāni. Route goes for about $2\frac{1}{2}$ hrs. at firs
4	W. then WSW. over the gradually rising plateau.
311/4	Qishlaq of Bīr Qabāqib (about $7\frac{1}{2}$ hrs. from Deir). Draw
	well, a few paces from the qishlaq, over 65 ft. deep. The
	water is bitter, but more agreeable than the sulphur
	tainted water found elsewhere, as at Sukhneh (see below
	m. 81). The qishlaq is a small building with a small
	court, and shelters about twelve soldiers. The gypsun
	formation which extends from the Tigris and Euphrates ends here.
	Route begins to descend from the plateau and crosses
	a depression known as Fedat Qabāqib.
421/4	Cross the Shu'eib ed-Dufeini (Dufein). Cross the Wad
	Dufeini (?). To the r. of the route there is said to be
	a well called Bīr el-Quteibeh in a cleft at the foot of the
	Jebel el-Kutebat in which the wadi begins. Track now
45	runs almost SW.
40	Bir Qabāqib disappears from view. Route now lies across
	a broad depression; Jebel el-Murabba' and Jebel el Heil a long way to l.
$55\frac{1}{2}$	El-Muheifir. This place is about half-way between
4	Qabāqib and Sukhneh (see below). The Turkish Govern
	(I I I I I I I I I I I I I I I I I I I



"كتيّب بلاد الرافدين. المجلد الله ١١٧ [٣٣٣] (٢ ٣٢/٣٤)

	(169)	
	ROUTE 54 333	
Miles from		
Deir ez- Zor	ment about 20 years ago made unsuccessful efforts to	
	sink a well near here, making borings to a depth of	Ш
	200 ft. The borings lie about 3-4 m. behind a depres-	Ш
	sion called Ghadīr et-Teir (alt. 1,650 ft.), which holds	
	much water in the rainy season. The brooks which	
50	probably existed here earlier are now obliterated. Hills to r.; the Jebel el-Beshri gradually approaches the	
59	track, and comes to an end.	
$62\frac{1}{2}$	Jebel el-Buweib to l.	
65	Jebel en-Nejīb to l., said to contain water-holes.	
$66\frac{1}{2}$	First peak of a line of hills begins on the r. running WSW.	
$68\frac{1}{2}$	It is of a red colour and is part of the Jebel ed-Duweihik . Second peak begins on the r.	
75	End of the Jebel ed-Duweihik.	
77	Tel el-Mayyaleh on the l. The track now runs across	1
	country open to the S., and bounded on the N. by a	11
81	ridge, fairly steep in places, called the Jebel Dhahīk . Sukhneh ('the Warm'), alt. 1,640 ft. Wells and qishlaq.	
01	About 100 houses, a number of which were empty in	
	1899. The place gets its name from the sulphur wells	
	close to it. The water acquires a very bad taste after	
	standing, but is still drinkable. Pools have formed in	
	the neighbourhood of the wells, and in these the inhabitants bathe; in some of these there may be leeches.	
	A town has existed here since ancient times but has	
	dwindled owing to migrations to Aleppo, Homs, Hama,	
	or Deir, and through the growing commercial importance	
	of Deir, where most of the desert trade is now concentrated. The present inhabitants live in a very poor	
	way, being scarcely able to raise enough grain for their	
	own consumption. The qishlaq is a large fortified post	
	with a strong garrison, $10\frac{1}{2}$ hrs. by carriage from	
	Bīr Qabāqib. Routes from Sukhneh (1) to Aleppo, which goes off NW.,	
	crossing the saddle 13 m. from Sukhneh between Jebel el-	
	Mukeibireh on the NE. and Jebel Dabbās on the SW.	
	(2) To Raqqah directly N. by Et-Tayyibeh and Resāfeh.	
993	(3) The present route to Damascus.	
$82\frac{3}{4}$	Wādi el-Kebīr. Route now has Jebel Dhahīk on the N. and the hills known as Tulūl el-Qubbeh on	
	the S.	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٣٣٤] (٣٢/٣٤٤)

334	LAND ROUTES
Miles from	
Deir ez- Zor	
861/4	Pass a ruined <i>Qubbeh</i> or shrine, from which the Tult el-Qubbeh get their name.
871/4	Khān el-Khuleilāt on the l.
903/4	Pass a rectangular water reservoir 20 to 30 ft. square Mound and ruins on r., remains of a Mohammeda settlement.
$97\frac{3}{4}$	Cross the Wādi er-Ramāmīl.
$99\frac{i}{2}$	Cross the Wādi et-Tumeid; ruined khan of the sam name to r. of route.
1013/4	Reach the edge of a basin in which Erek lies. Trace
	changes direction from SW. to SSW.
103	Erek. Village of 15 to 20 Fellahin families, lying in small basin surrounded by low hills. At a short distance to the NE, there is a qishlaq on rising ground. As the single well lying N. of the qishlaq has very littly water, the settlement can never be large. The water is sulphurous, but not to the same extent as at Palmyra There are some small vineyards and patches of cult vated land. Erek is 5½ hrs. by carriage from Sukhner A track E. across the desert to Abu Kemāl (see Route 53) leaves the Deir—Damascus route near Erek Jebel el-'Amr is to N. of route, 5 m. distant.
109½	Track now runs due W. Cross three wadis. Pass ruins of khan called Qasr el-Ahmar , at the foot of the Jebel et-Tuleituweh , which now changes its name to Jebel el-Qatar .
110½	A depression in the hills to r. Behind this depression there are said to be springs called 'Ain el-Qatār, an farther N. another well, called 'Ain el-Milah ('sale spring').
113	From here Tel Fira lies due S., a long distance away and further S. the Jebel el-Ghurāb, not far from the Hit—Damascus route.
118	Tadmor (Palmyra). Pop. 1,500, sedentary Arabs of various tribes. They have little part in the carava trade from Deir to Damascus, being practically confine to a share in the transportation of salt and potast. They also cultivate fields to the SE. of the city and work at the exploitation of the salt lake or marsh calle Sabkhah or Mamlahah which lies about 2 m. out if the desert and about 4 m. from the city. It is about



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٣٣٥] (٤٣٢/٣٤٤)

	ROUTE 54 335
liles from	
Deir ez- Zor	Ata 5 m lang and 3 of a m broad and lies in a flat
	4 to 5 m. long and $\frac{3}{4}$ of a m. broad, and lies in a flat depression between the city and the desert plateau.
	The salt, procured by evaporation, is very fine. There
	are several small watch-houses on the shore of the lake.
	The greater part of the inhabitants now dwell within the protecting walls of the ancient Temple of the Sun.
	To the NW. of this temple a barracks has been built
Map ?	and, as a result of the security afforded, the town has
	grown to the E. and N. There is a school. The Mudir resident here is under the Mutessarif of Deir. Tadmor
	had formerly, despite its small population, a thriving
	market which provided the Arabs of the desert with
-	necessaries. This business has now gone to increase
	the prosperity of Deir. Water-supply from a single well. Time from Erek, 3½ hrs.
	Many of the pillars of the ancient city are standing and
	some walls and towers are in very fair preservation.
	From Tadmor there are two or more tracks to Damascus. (i) By Qasr Hāzim and Bīr Zobeideh, the most direct
	but least known route.
	(ii) By Qaryatein and Nabq. This is said to be the regular
	caravan route. (For alternative to the stage as far as Qaryatein see Route 58 a.)
	garyateri see route so all
	ROUTE (i).
	Track runs apparently SW. or SSW.
133	Several deep wells called Bīr Sakr (1878).
	Ruined tower called Qasr Hāzim.
	Track runs SW. up a wadi between two well-marked ridges, passing after some miles a ruined khan called
	Halbeh.
161?	Bīr el-Buseiri, well of good water, 60 ft. below the
	surface. Track now passes between two high hills, Kökleh to r.
	and Rummākh to l.
1010	On this stage some water-holes are passed.
191?	Camping-ground in this neighbourhood. There is a spring of good water called Bir Zobeideh in the Jebel Rauk
	which bound the plain to the N. (1898).
	Track approaches the hills, which it skirts.



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٣٣٦] (٥٤٣٢/٣٤٥)

336	LAND POLITIC
Miles from	LAND ROUTES
Deir ez- Zor	
212 ?	Khān Abu esh-Shāmeh. (For the rest of the route se
$247\frac{1}{2}$?	Route 52, m. $322\frac{1}{2}$.) Damascus.
Allele to the	Route (ii).
Sidiran ani vivo Youkay Sidiran	This route continues over the plain of Palmyra and the enters a pass-like depression called the Wādi el-Qubū between the Jebel Hayyāl on the l. and the Jebel Marbat 'Antar on the r. The pass has funeral tower and monuments on each side. Hence its name, which means 'the valley of graves'.
	Route now traverses a great sandy plain called Wijan er
124	Raml. Abu Fawāris, place where water may be found.
132	'Ain el-Beidha, well and watch tower (gishlag) accommo
	dating twelve men. The well is about 50 ft. deep and has plenty of water, which is, however, strongly impres
delign of	nated with sulphur. A military report of 1911 make no mention of this well, and it is possible that only animals can drink the water.
	Time from Tadmor, $5\frac{1}{2}$ hrs. Route to Homs, Route 58 diverges here to r. The present route turns SW.
151	Khan el-Libn, ruined khan with the Jebel Abyadh or
157	the l. Cross the small Wādi el-Muteireh.
170	Qasr el-Heir, ruin, with square tower and part of porta apparently of Roman times. Many architectural remain in neighbourhood. To the N. are the remains of reservoir and aqueduct running from SSW.
	Water may be found in the vicinity. If none is to be had here a detour might be made to 'Ain el-Wu'ū' 10-12 m. SE.
174	Cross the broad Wādi el-Kebīr.
188	W. boundary of a district called Ardh er-Raudheh district Signs of cultivation. Track now runs W.
1011	Qaryatein (i.e. the two villages, but no division into two
$191\frac{1}{4}$	is visible). Alt. 2,460 ft. The houses are so clos
1914	together that their outer walls unite to form as it wer



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٣٣٧] (٢٩٢/٣٤)

		ROUTE 54 337	
1	Miles from Deir ez-		
	Zor	between 1,200, and 1,500 most of whom are Moslems.	
		There are, perhaps, 500 to 600 Jacobite Christians.	
		having their own priest and church. Christians and	
		Mohammedans live very peaceably together. There is	
		a mosque with minaret. There are 16 wells with abundant water. Potash is manufactured here and sent to	
		Damascus. Time from 'Ain el-Beidhā, 9½hrs.	
		From Qaryatein there are tracks:—	
		(1) The route detailed below to Damascus by Nabq.	
		(2) To Homs. See Route 58 a, m. 64.	
		(3) To Damascus by Quteifeh.	
		This track runs SW. through treeless and uninhabited country in	
		which no water is to be found till 'Atneh is reached, 38 m. from	11.1
		Qaryatein. 3 m. farther on is Jerūd , a village of 2,000 inhabitants in a fertile and well-cultivated plain, with large salt	
		marshes near. After another $7\frac{1}{2}$ m. Ruheibeh village is passed.	
		where there are remains of substantial masonry aqueducts, and, 2 m. farther on, Quteifeh, on the Homs—Damascus road, which	
		is then followed.	
		(4) Cross track to join route (i) from Tadmor to Damascus.	
		This was followed by a traveller in 1898 in order to avoid robber-	
		bands of nomads and is not a regular track. It runs ESE, rising	
		fairly steeply on to a plateau, passing a ruin on the edge of the plateau and reaching a chalk ridge called Jebel el-Hufeir, in	
		the neighbourhood of which, to E. of the track, there is said to be	
		water. The track then turns in a southerly direction over fairly level ground between hills, gradually changing direction to SW.	
	Table 5	and reaching Bir Abu 'l Hayayeh, where there are several large	
		deep wells, at about m. 30 from Qaryatein. From there the direction again changes to SE. to Bir Zobeideh, about 10 m.	
	The same	farther on. See route (i), m. 191 above.	
	Telenos	A motor has been used hence to Damascus; exact route	
		not specified.	
	1951	Track runs W. across the plain on leaving Qaryatein.	
	1953	Pass a ruin said to have been formerly a military post. Cross an ancient aqueduct.	
	1981	Ascend from the plain of Qaryatein to a plateau.	
-	203	Several peaks to the l., about 1,000 ft. above the plain.	
		the beginning of a range which gradually approaches	
4	2033	the track.	
	4	Mahīn village with spring and brook on the W. side. The water tastes slightly of sulphyre. About 21 m. N. of	- 11 11
		The water tastes slightly of sulphur. About $3\frac{1}{2}$ m. N. of Mahīn there is a wadi with a spring of good water.	
	MES. III		



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٣٣٨] (٢٣٢/٣٤٠)

338	LAND ROUTES
Miles f	
213	
210	Isolated hill on r. In the neighbourhood of this hill there is a spring called 'Ain Erkhebeh.
217	Cross a water-channel, about 30 paces long, in a depression
	along which the track runs. The water in this channel loses itself in the ground.
225	The direction of the track is now WSW.
225	Deir 'Atīyeh. Cultivated ground with vineyards and gardens. An American Mission has for many years had a school here.
	Excellent water from a brook.
	Track now runs SW. across undulating desert which rises gradually towards a range of hills on the l.
231	Nabq, springs. Village about ½ m. to E.
280	The track now follows the Homs—Damascus road. Damascus.
. 223	ROUTE 55
	RAQQAH—HAMA (166½ M.)
	Via Rusafeh
j. V	ities:—J. Östrup, Histtopogr. Bidrag til Kendskabet til den syriske Örken, urney in 1893; M. Hartmann in Zeitschr. des deutschen Palästina-Vereins, d. xxiii, journey in 1880; Sarre and Herzfeld, Archäol. Reise im Euphrat- da Tigris-Gebiet, journey in 1907.
Th	is route crosses to the r. bank of the Euphrates, and follows the dad-Aleppo caravan route for 16 m. It then turns S. towards
Rusa	eh and from there in a general SW. direction to Serīyeh.
deser	Serīyeh, 83 m., the route goes over land that has always been t, the saltness of the soil preventing cultivation; the few
wate	ing-places on this stretch yield water with a salt taste naturally
is ge	noticeable after a heavy rainfall. Beyond Seriyeh the direction nerally WNW. or W. to Anderin, and the country through
which	the track lies formerly supported a fairly dense population;
but i	has been out of cultivation for centuries. From Anderin the al direction is SW. From Seriyeh to beyond Anderin there is
good	grazing ground, and the pastures between these places are among
those	most frequented by the Bedouin.



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	(172)	
	ROUTES 54, 55 339	
Miles from		
Raqqah	Raggah. For the first 16 m. see Route 46, m. 410-426.	
16	Tel eth-Thedeyein. Route strikes S. The distances from	
10	this point are rather uncertain, and in a good many	
	cases taken from maps.	
	Route follows a shallow depression called Silat eth-Thede-	
	yein. Water, probably brackish, might be got by	
	sinking wells.	
36	Rusafeh, the ancient Sergiopolis (St. Sergius martyred	
	here, 300 A.D.). Rusafeh, formerly of great importance, is	
	now ruined and almost abandoned owing to scarcity of	
	water. There are no springs, and the subsoil water is	
	230 feet below the surface. It is now the head-quarters of the northern Anazeh. The chief ruins are those of	
	a large building surrounded by a wall originally 25 ft.	
100	high which has hardly anywhere retained its original	
. 1	height. Outside is an earthen rampart 20 ft. from the	
to real miles	wall. The W. side of the rampart has two towers. The	
4 - 4 - 4	outer wall of the ancient town, which, like a large part of	
	the buildings inside, is built of stone blocks, was furnished	
	with a chain of large and small towers interspersed (20	
	large, 9 small), those at the four corners round, the rest	
	square. Inside is an arcade formed by the wall and a line	
· Alpenia	of pillars which runs the whole length of the wall. Here	
	and there are cross walls forming small cells. The outer wall is loopholed, and is on the whole well preserved,	
	with the exception of a large breach on the E. side. The	
	ground within the wall is higher than that outside.	
10.000	Within are ruins of churches and other buildings. In	
	the SW. corner are six large cisterns, now dry.	
	Track now runs WSW. over country level or intersected	
	only by low hills. The map illustrating the route of the	
BURNET.	traveller who crossed this stretch of country in 1895	
· Corner	shows considerable windings, of which no indication is	
55	given in his text.	
. 00	Cross a low range of hills, the Jebel Khuraibeh . ? Wells or pools on l.	
69	Khirbet el-Fārih ez-Zeireh, ruins of a fortified cistern.	
	Three old wells, quite dry. A few miles from this	
	place the track runs through some low hills, the Jebel	
	Serīyeh.	
83	Serīyeh (Serianeh), reached through a narrow pass. The	
pily to an	place is practically uninhabited. Ruins of a stone wall	
	y 2	



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٣٤٠] (٩ ٣٢/٣٤٤)

340	LAND ROUTES
Miles from Raqqah	
	with traces of its foundations enclosing remains of a we (dry), and some buildings. Outside the wall are remain of pillars and rough hewn stones. Dry well to N. Oth ruins SW. A report of 1875 says that a well in the plat to SE, had been cleared by the nomads, and afforder excellent water.
	From Serīyeh a track runs SW. towards Selemīyeh, passing aft about 20 m. Bugheidid, where there is water, and 4 or 5 m farther on Es-Sa'an Umm es-Su'ein, two springs. This latter pla is said to lie about 12-15 m. S. of Anderīn, and 6-8 m. E. of Qa Werdān (see below).
98 107½	The track appears now to run between NW. and WNW. ? Water-holes. Bīr Abu Daruk, well. About 3½ m. S. of Bīr Abu Daruk and 6½ m. from Anders (see below, m. 114) lies the ruin-field of Khirbet e
	Matrān. There are here the ruins of a town, the innefortifications of which show the same characteristics at those of Rusafeh. Instead of the usual cisterns or well there is a number of large stone basins which have serve to collect rainwater.
	To S. are ruin-mounds, and there are similar ruins reported about 4 m. farther S.
114	Anderin, the ancient Androna. Within a long rectangula wall, rounded at the corners, are the ruins of a few cistern and churches. The most important are those of a basilio on the S.
	A track here branches off NW. to El-Kharāyij, about 9½ m. distant (s Route 57 under m. 96), passing a good many traces of ancie water channels.
	Track now runs SW. and SSW. over quite flat country which seems to have been cultivated in earlier time Ruins passed are Khirbet el-Majūs and Khirbet el-Khanz on the r., and Khirbet Suhah and Khirbet el-Khanz on the l. From the track the line of hills called Reserved . Humeireh is visible to N., and to NE. the Jeb
127	Halawān. Qasr Werdān, ruins.
121	From here a track runs SW. to Selemīyeh and thence to Homs Hama. Cultivation begins on this track at about $6\frac{1}{2}$ m. from Qa Werdān. The inhabitants are mainly Circassians, living villages of beehive-shaped huts. Selemīyeh lies about 25 m. SV of Qasr Werdān. It is a modern Turkish village on the site of the



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	173	
	ROUTES 55, 56 341	
Miles from Raqqah		
1	ancient Salaminias, with a few thousand inhabitants, and is the seat of a Mudir.	
1311	Cross a ridge.	
134	Tel el-Malīh. There is water here.	
$137\frac{1}{2}$	Here a cross track branches off to join that to Selemiyeh	
	(see above), passing after some miles Tel esh-Sheyib , where there is an abundant supply of good water.	
1421	'Ain el-Hamreh, springs.	
145	Abu'l Gudūr village, at the foot of a hill. Ruins called El-'Anzeh.	
153	Wells.	
$166\frac{1}{2}$	Hama.	
	POTITIES 50	
	ROUTE 56	
	RUSAFEH—SUKHNEH (53 M.)	1111
Authorities	:-J. Östrup, Histtopogr. Bidrag til Kendskabet til den syriske Örken,	
	journey in 1893; Geographical Journal, vol. xxx.	
	s a desert track without supplies of any kind.	
Rusafeh		
0	Rusafeh. Route goes in general direction S. over absolutely flat country. There are no permanent villages. The	
	country is in the hands of Bedouin belonging to the	
	independent and warlike tribes of Fed'an and Sbah	
	(1893). After some miles the ruins of a tomb on the l. are passed. On the r. are hills, Simlet en-Na'am , which	
	are continued to the S. in the Jebel Mumqabareh.	
	Beyond the former is Tel el-Faddeh . Farther W. is the Jebel Muhr , beyond which is a place called Abu	
	Fejjād, where coal was formerly worked in primitive	
30	fashion by the Bedouin.	
1,1	'Ain el-Qom, a wretched village of about 30 houses, some domed. These houses are constructed of sun-dried	
	bricks, and have neither windows nor chimneys. Abu	
	Chamis, sometimes marked as the name of this village.	
	is really the name of a Bedouin tribe living between Et-Tayyibeh (see below) and the Euphrates. The ruins	
	of Nedewiyeh are about 5 m. NE. of 'Ain el-Qom.	
	The Jebel Munshar extends parallel to the route from here, and continues farther S. in the Jebel Dhahīk.	
	, and the state of	

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LAND ROUTES 342 Miles from Rusafeh C1088 plain Et-Tayyibeh, an insignificant village of about 30 houses on 371 a small hill. The houses have their backs to an encircling Was wall, leaving an open space in the middle, in the centre and of which rises a watch tower, about 17 ft. high, which has Seriye preserved its old stone door. An early account speaks of 'Ain e a spring, rather hot, with a slight mineral taste, near ston the E. gate. Due W. of the village is a solitary and 'Ain e steep hill with a monument to Sheikh Ibrāhīm, the 'Ain el local saint. About 8 m. E. are the ruins called Qasr Ruins (el-Heir, consisting mainly of two large stone-walled Khuna quadrangles, the larger 200 paces square, the smaller by to 90-100. The walls are about 40 ft. high and 12 ft. En thick, and are specially well preserved in the smaller which enclosure, which has lost only one of its original 12 rally towers. A well is spoken of, but no indication is given as to whether it contains water or not, and an old The pl account speaks of an aqueduct from the hills on the r. with Tract now runs S. by W. water Sukhneh. 53 about ROUTE 57 groun SUKHNEH-ALEPPO (139 m.) from **MASSE** Authorities :- E. Sachau, Syrien und Mesopotamien, journey in 1879; Th. Bischoff's For s map in Sachau (see App. to Oppenheim's Vom Mittelmeer zum Persischen Golfe, water vol. ii). 4m. This track appears to have been little used. Over most of the route there are no supplies, and water is scanty and often bad, but conditions improve as Aleppo is approached. Miles from Sukhneh a We to B Sukhneh. The track runs in a general NW. direction, 0 curving at first round the base of the Jebel Dhahīk to regul the l. For about 20 m. it crosses undulating country with low hills to l., and many terebinth trees, which the el-Ai nomads in winter use for firewood. Farther on large Bir el-Ruin pistachio trees are met with. Jubb Kedem, spring with bad, sulphur-tainted water. 33 The to Cross the Wadi Fasakeh. 35 'Ashīqah, ruins. Many dry wells and traces of gardens and Valle 40% vineyards.



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ROUTES 56, 57 Cross the Wādi Heibekeh , and reach the plain. These wells were formerly cover was reported in 1875 to have been clear	
plain. These wells were formerly cove	
plain. These wells were formerly cove	
and to afford excellent water. Serīyeh. For description see Route 55, m Ain ez-Zarqā ('Blue Spring'), in a c stone depression. Water rather bad. Ain ez-Zareqā, well. Rather better water	red by the Arabs 1. 83. chalk and lime- er. ch or monastery. n. broad bounded el Shebet on the e Jebel el-Hass, e buildings gene- Hass, but white ry well supplied now in use. The
A track here branches off to the l. crossing the about 2 m., and about 7 m. farther on Er-R ground with wells. A salt-marsh is then camping-ground of El-Kharāyij reached a Khunāsareh. The general direction of this from SW. to SSW. Various nomad encar passed, and Tel Halāweh reached about 32 m. For some miles before Tel Halaweh is reached water along the track, which still continu country well supplied with water, passing 4 m. and striking Route 55 (m. 114) at about 42 m.	amleh, a camping- n passed, and the about 20 m. from track then changes mpments are then from Khunāsareh. I there is abundant ues SSW. through El-Hawāyis after
The track now runs NW. across the pl direct route after about 7 m. passes Jubl a well on the S. slope of the Jebel el-A to Bīr el-Amīri, on the other side of t regular track, however, branches off, a Jubb el-Weshshāsh is reached, and leads el-Amīri on its E. side. Bīr el-Amīri, well, on the N. side of the Ruins on the slopes. This place stan	b el-Weshshāsh, Amīri and so on that range. The apparently before s round the Jebel e Jebel el-Amīri.
higher than Aleppo. The track now runs through the most example valleys which run from S. to N. betw	easterly of the 5
	Ain ez-Zareqā, well. Rather better wat Ain el-Ghazal ('Gazelle Spring'). Ruins of a solitary building, perhaps a chur Khunāsareh, ruins lying in a plain 6-9 m by two parallel ranges of hills, the Jebe E. running from SSE. to NNW., and the which runs N. and S. on the W. The rally are of basalt from the Jebel elemarble columns are to be seen. The place must formerly have been verwith wells, but only two or three are mater is good, without any brackish or labout 2 m., and about 7 m. farther on Er-Reground with wells. A salt-marsh is then camping-ground of El-Kharāyij reached a Khunāsareh. The general direction of this from SW. to SSW. Various nomad encapassed, and Tel Halāweh reached about 32 m. For some miles before Tel Halaweh is reached water along the track, which still continuountry well supplied with water, passing 4 m. and striking Route 55 (m. 114) at about 42 m. The track now runs NW. across the placet route after about 7 m. passes Jubia well on the S. slope of the Jebel elto Bīr el-Amīri, on the other side of the regular track, however, branches off, a Jubb el-Weshshāsh is reached, and leads el-Amīri on its E. side. Bīr el-Amīri, well, on the N. side of the Ruins on the slopes. This place stan higher than Aleppo. The track now runs through the most of the track now runs through the most of the stack now runs through the most of the track now runs thr



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9	344	LAND ROUTES
7	Miles from	
8	Sukhneh	El Dobbinsh wing on the
		El-Bekkureh, ruins on the r. Emerge on to the plain from the foot-hills of the Jebel
		el-Hass.
	113	Khirbet 'Annazi, ruins on the 1.
	1144	Tel Annazi. From this point Sheikh Juneid, a small
	TO THE	village, lies to E., and near it to the S., Higleh Jefreh
	115	village is about $5\frac{1}{2}$ m. NE., and El-Guthin about 2 m. N. Ruins.
	48 9/12	Ruins called Es-Semmugeh, of basalt from the Jebel el
		Hass.
	$120\frac{1}{2}$	Tel Hibr on the r. Tel Abu Jeren about 5 m. to E.
	Harris S.	and E. of it Tel 'Agrabus , with village, and still farther E. Tel Abu Derīheh , also with village.
		Jebbul village to NE.
	$121\frac{1}{2}$	El-Mellühah, ruins.
	$123\frac{1}{2}$	Track now good. Direction still NW. through cultivation.
		Safireh, large Moslem village. District fertile and well cultivated.
		'Ain Safireh, spring in a hollow. The overflow runs E.
	127	Tel 'Arah village on a mound $\frac{1}{4}$ m. to r.
		The NW. extremity of the Jebel el-Hass is here about 31 m
		W. It is continued to the N. in the ridge called Te. Shureib.
	1273	Tel Hasīl village. Numerous villages to E. and N.
		Tel Shureib village, at the foot of the ridge of that name
		to the W.
	$130\frac{1}{2}$ 133	End of the Tel Shureib ridge about 7 m. to W.
		Nirab Haleb, small village. Jebrīn village about 2 m. to N.
		Tiyareh village about $3\frac{1}{2}$ m. NE.
	1344	Vineyards and olive groves begin.
	139	Aleppo.
		ROUTE 58 a
		TADMOR—HOMS (121½ M.)
	Authoritian	Via QARYATEIN
		-E. Sachau, Syrien und Mesopotamien; Military Report on Syria, part ii
0	ground in	s very little water on the first stage of this route, and the
v	which ani	places is made difficult by the burrows of jerboas, into
		T MO MINO.



"كتيّب بلاد الرافدين. المجلد !!!. ١٩١٧ " [٥٤٣] (١٥٥/٣٣٤)

	ROUTES 57, 58 a	345
	more usual track as far as Qaryatein seems to	be that
Miles from	d in Route 54, under m. 118 (ii).	
Tadmor	Tadman Treek areses the win fold and man	way the
U	Tadmor. Track crosses the ruin-field and goes of hills that bound it on the W., descending slight	htly till
	the level desert is reached. General direction SV	V.
32	'Ain el-Wu'ūl. There are reported to be leeches	in the
	water of this well. Track now runs along the foot of the Jebel el-Wu's	-1
39	End of the Jebel el-Wu'ūl. In the narrow valley	between
	this range and the next, called Jebel el-Bardi, th	nere is a
	very well preserved ancient dam, built of irr	egularly
	hewn blocks and bound with mortar. It is 1 thick and in places 50-60 ft. high, stretching	
	across the valley, which forms a water-basin,	though
	there was no water in it in October 1882.	
	Track now passes a low hill, broad on top, which	
	the N. end of a ridge which the route skirts f distance. Direction bends from SW. to about V	
10	a gradual descent.	, , , , , , , , , , , , , , , , , , , ,
46 50	Track leads over a ridge.	
64	Track leads over a second low ridge. Qaryatein.	
	Track now apparently follows that of Route 54 (see	ection ii,
70	m. $191\frac{1}{4}-203\frac{3}{4}$), turning N. at Mahīn.	
78	Hawarin, large Moslem village with ruin-field to	E. and
	SE. Gardens and fields and plenty of excellent About $1\frac{1}{2}$ m. N. is the Wādi el-Karm ('wine	valley').
	and $1\frac{1}{2}$ m. farther Mezra'at el-Karm ('wine fiel	d') with
	a spring of good water. 10-11 m. farther N. is	
	Ghuntur, a village with a small spring of water remains good at all seasons.	r which
85	Sadud, head-quarters of the Jacobite Church in	n Syria.
	Stream on the W. side of the town.	
91	Track now runs over several ridges. Cross a depression with a limestone quarry.	
92	Spring beside the track.	
97	Hāsiyeh (Iki-Qapulu), Moslem village of fifty w	ell-built
	stone houses on the Homs—Damascus road. Ru	ains of a
	large khan to r. Water from a large karez from which flows into two masonry-lined ponds 30 yds	n the E.
1011	close to the road.	s. square
$121\frac{1}{2}$	Homs.	

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346	LAND ROUTES
	ROUTE 58 b
	TADMOD HOME (1091 xx)
	TADMOR—HOMS (102½ m.) Via Ala Halīyet
Peterm	:—Vignes, Voyage à la Mer Morte (De Luynes), 1864; Černik (1873) in anns Mitteilungen, vol. x; Moritz in Abhandlungen der Akad. der Wissen n, 1889; Oppenheim, Vom Mittelmeer zum Persischen Golfe, journey in 1893
This rethan tha	oute was during last century a more regular caravan rout t described in <i>Route</i> 58 c, being somewhat protected by the front the ground from attack by Bedouins.
Miles from	
Tadmor	Tadmor. The track follows that to Qaryatein (se
$2\frac{1}{4}$	Route 54, m. 118, ii). Strike off to the r. from the Qaryatein track. Direction NW. by N. (322°). Track now runs across a plain bounde to N. by the Jebel Wassheh.
$6\frac{3}{4}$	Cross a range of hills. The beaten track now runs 40° W of N. towards the Jebel Abyadh. Present track run NW. by W. (298°).
$15\frac{1}{4}$	Reach the foot of the hills and enter a large ravine.
21	Reach a small plain, in the middle of which is Jise a large well of foul water. Present track rejoins the beaten route, which now runs NW. by W. (305°), with the Jebel Abyadh on the r. and the slopes inclining toward
221	the great plain between Tadmor and Qaryatein on the
$23\frac{1}{4}$	Pass the remains of huge tombs attributed to the legendar giants Beni Ghilāl.
241/4	Reach the caves of Ala Haliyet in the side of the hill o
	the r. These are chambers carefully hewn in the pe pendicular face of the hill, which is here of white
	calcareous rock. Part of the chambers may have bee tombs, but some seem to have been used as dwelling as there are two huge cisterns excavated in the rock an cemented on the inside.
$24\frac{3}{4}$	The plain now narrows to a ravine through which the track runs W. by N. (285°). Begin to ascend by a zigzag path, occasionally difficult.
26	Reach the summit. The Jebel Wassheh is now SW. by W (236°). Track now follows a valley with the Jebel Abyadh on the
	r. and the slopes towards the great plain on the l.



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		(176)
	ROUTE 58b	347
Miles from		
32	End of the Jebel Abyadh. Track now very running across a plateau with light-cold	
	General direction W. by N. (276°).	Jurea Surrace.
471	White hill called El-Heimeh ('The Tent') or	n the r.
50	Tel called Ghur Buto Ala with tombs and r	
	Ground now becomes more broken. Track of hills. On the r., about 3 m. distant, a low	
	running from E. to W. On the l. the mor	
	range of Jebel Tofhah running SW., till	
55	distance it sinks into the plain. Small plain surrounded by hills. No water	Track now
55	crosses undulating country. General direc	etion W. by N.
	(280°).	
59	Jubb Habil, well with a little water on the through the middle of a broad valley w	r. Track runs
	Shumriyeh ridge on the r.	TOTAL CITIES OF STATES
	General direction now SW. (230°).	
62	Track emerges from the valley. Ruins Khirbet Euboulia, on the r. Pools n	of a village,
	here.	nay be lound
66	Two wells in the middle of ruins called Juk	bb Hamet en-
711	Nasīf near the track.	
$71\frac{1}{2}$ $73\frac{1}{2}$	Track crosses a valley running SSE. Pass through a ruined village called Shumrī	yeh.
2	Track now enters a ravine, the Jebel Shum	rīyeh forming
911	the r. slope.	
$81\frac{1}{2}$ $82\frac{1}{2}$	Shekiyeh. Small pool infested with leeches Route 58 c here joins the present route.	
2	Track now runs across a great plain, after w	hich it crosses
	a range of hills, then descending into a	a broad valley
891	with plenty of water. Aifir, camping-ground in the valley, with w	adi and water.
4	Alt. 1,640 ft. The water tastes about	ninably, being
	merely a pool which has formed under a	an overhanging
	cliff, and swarms with life. The neighborises in hilly undulations, with saddles	and wadis. A
	broad level terrace rises towards the st	eep foot of the
	Jebel Sovan on the S. Track now ris	ses out of the
	valley on to a plateau from which the ci may be seen.	trader of Hollis
	General direction W. by N. (280°).	
	Descend into a broad valley running N.	



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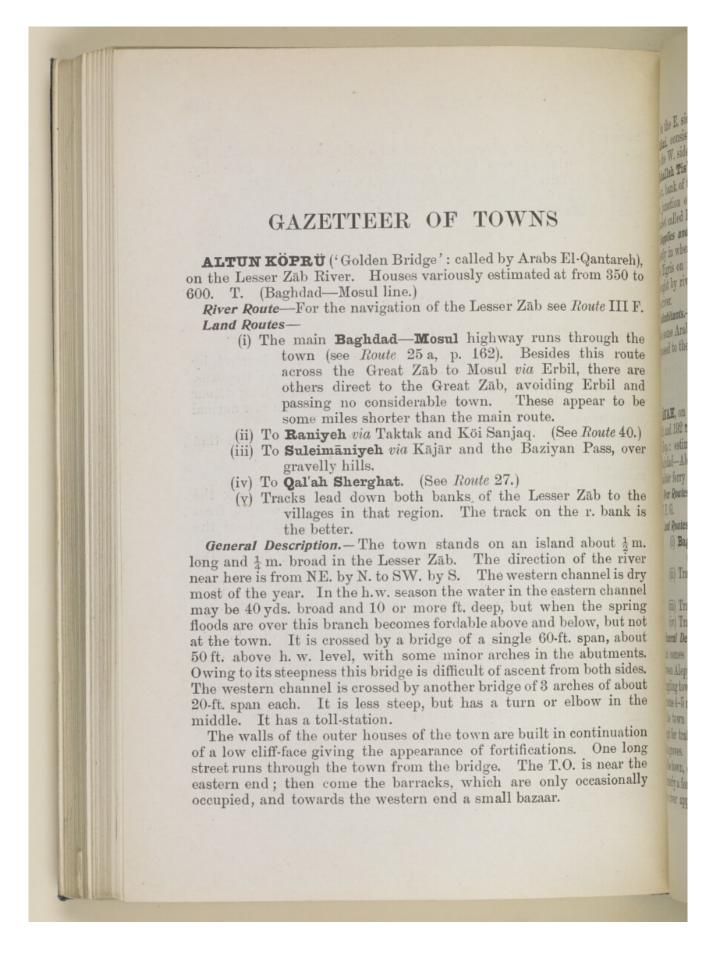
348	LAND ROUTES
$\begin{array}{c} \text{Miles from} \\ \textbf{Tadmor} \\ 91\frac{3}{4} \\ \\ 94\frac{1}{2} \\ \\ 96\frac{1}{2} \\ \\ 99 \\ \\ 102\frac{1}{2} \\ \end{array}$	Tel Batīyeh, ruins of a village at the foot of a mound. Emerge from the valley. Zukereh village. Alt. 1,450 ft. Cultivation now begins. Soil chiefly clay or marl with layers of gypsum. Some sugar plantations. Tel Kuleif village on the l. Zeideh village on the l. Homs.
	ROUTE 58 c
	TADMOR—HOMS (78½ m.)
-	Via Khirbet el-Hanūreh
	Authorities as for Route 58 b.
already s route. Miles from Tadmor 0 $2\frac{1}{4}$ $6\frac{1}{4}$ 14 33 35 $40\frac{1}{2}$ $47\frac{1}{2}$ 55	Tadmor. Cross a saddle (alt. 1,575 ft.) between the Jebel Senāyeh and Jebel ed-Dalaureh. Track by the high ground (Route 58 b) branches off here. Abu Fawāris (alt. 1,410 ft.), well in a basin surrounded by hills of respectable size. Cross a low saddle. About here apparently the track leaves that to Qaryatein (Route 54 ii). Leave the plain and enter a defile near the ruins of Khirbet ed-Dāhireh. Pass 6-8 summits to l. Hajar ed-Duhūr ruins, alt. 1,870 ft. Khirbet el-Hanūreh, about 2 m. to r. of route. Deep ravines. To E. the slope of the Jebel et-Tiyas culminates in an abrupt crest of 2,560 ft. Khirbet el-Qa'ah, alt. 1,870 ft. Ruins. Track goes along a slope intersected with ravines and over a small saddle. El-Perklus, spring. The water is reported to be very unpleasant and full of infusoria and other creatures. Remains of numerous walled terraces. Es-Sebīl ruins, with fine hewn stones. The whole region is said to show traces of former cultivation. One



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٤٤٩] (٣٢/٣٥٨)

		(177)
	ROUTES 58 c, 59 349	
Miles from Tadmon $58\frac{1}{2}$ $78\frac{1}{2}$	traveller reports having seen oil-presses of basalt, but this appears to be contradicted by another authority. There are no olives to be seen now. The track here joins <i>Route</i> 58 b. Homs.	
	ROUTE 59	
	HOUTE 55	
	TADMOR—SELEMĪYEH (78 m.)	
Au	thority:—Sobernheim in Zeitschr. des deutsch. Palästina-Vereins, xxii.	
a route At about behind circums About	that does not appear to have been used before by Europeans. It 6 m. from Tadmor they turned N., making a long détour the Jebel 'Abyadh, which would not be followed under normal tances. Tadmor. From the détour is ended, and from that he route followed is fairly direct to Selemīyeh. Tadmor. From the beginning of the direct track the direction is NW. (The distances are measured from Tadmor, allowing 28 m. up to the point where the	
39	détour referred to ends.) Cross the Wādi es-Surra , a water-course in a ridge of the same name. The track then curves round the Jebel es-Surra in a	
49	northerly direction towards the Jebel Bil'as, which may perhaps be a part of the Jebel es-Surra. Jebel Bil'as. From this point the general direction is	
56 62	W. by N. over alternating rolling and plain country. Jebel es-Sued on the r. Jebel es-Suha, a slight eminence in a district of the same name.	
70	Beyond this cultivated land is reached. Mufaggareh village.	
73 78	Taltut village to 1.	
10	Selemīyeh.	





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"كتيّب بلاد الرافدين. المجلد إلى ١٩١٧" [٥٥١] (٣٢/٣٦٠)

ALTUN KÖPRÜ—ANAH

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On the E. side of the eastern branch is a suburb called **Mahalleh Sūlāni**, consisting of about 70 houses of Arabs, Kurds, and others. On the W. side of the western branch there is another suburb called **Mahalleh Tis'īn**, of about the same size, of mixed population. On the r. bank of the river nearly due S. of the bridge and a little below the junction of the two arms is a small mixed Turkish and Arab hamlet called Kazābāshi.

Supplies and Commerce.—There are about 50 shops. Trade is mostly in wheat and barley, which are exported and floated down the Tigris on rafts. There is a small export of wool and timber brought by river from the hills. Drinking-water is obtained from the river.

Inhabitants.—The inhabitants are mostly Turkomans, and there are also some Arabs and Kurds. They are reported to be not very well disposed to the Osmanlis. Turkish is the prevailing language.

ĀNAH, on the r. bank of the Euphrates, $119\frac{1}{2}$ m. by river above Hit, and 192 m. below Deir.

Pop.: estimated in 1909 at 15,000 (2,000 houses). P.O., T., (Baghdad—Aleppo line). Ferry to the village of Rawā on l. bank; shakhtūr ferry (for wheeled transport) below Ānah at Jumeileh.

River Routes—For communications on the Euphrates see Routes IV, F, G.

Land Routes-

(i) **Baghdad—Aleppo** caravan road passes through Ānah. (See *Route* 46.)

(ii) Track along 1. bank of Euphrates up-stream to Raqqah. (See Route 47.)

(iii) Track across desert to Baghdad. (See Route 48.)(iv) Track across desert to Mosul. (See Route 50 (iii).)

General Description.—For the river see Route IV F, m. $117\frac{1}{2}$ seq. Anah comes next in importance to Deir ez-Zor among the towns between Aleppo and Baghdad. It lies among palm trees, and is a long, straggling town, consisting practically of a single street which extends for some 4–5 m. along the Baghdad—Aleppo caravan route. The road in the town crosses numerous water-channels by bridges that are rough for traffic. The houses are interspersed among gardens and date groves. The town has three mosques. On an eminence to N. of the town, close to the Euphrates, is a ruined castellated building, formerly a fort, built in the first half of the last century, to command the river approaches. The island of Ardeshīr or Lubbad and other

"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٥٦] (٣٦/٣٦١)

352 GAZETTEER OF TOWNS islands in the river opposite Anah are cultivated and contain palm Jewish din on the trees. On the l. bank opposite the upper end of Anah is Rawa village pics and with fruit-gardens and date groves. On the hill above are modern a large spir barracks (apparently defensible) called Qasr el-Zā'im. EDIN 100 Supplies and Commerce. Before the present war all necessary intitatis. supplies for a caravan could be obtained here. In the region of SISTS JE Anah wheat and barley are cultivated, but there does not seem to have been in recent years any appreciable surplus for export. Dates, the sad a apricots, plums, figs, pomegranates, &c., are produced in the gardens or blackst of the towns. The live stock of the Kaza consists mainly of sheep. 35 ministratio Water is to be obtained from wells, and also from the river. Wool, butter, and dates were exported to Aleppo. Grain, soap, in inder 1 honey, and spices came down the Euphrates from Birijik. It was STREET STR reported in 1911 that merchandise from Aleppo for Mosul was prison her sometimes sent down the Euphrates by shakhtur to Rawa opposite to dief b Anah, and thence conveyed by camel to Mosul. Arab cloaks are manufactured here. It was estimated in 1909 (with regard to a projected railway) that 7,000 men and 8,000 women would be available in the district for labour. Inhabitants.—The people of Anah are mostly Sunni Arabs. A few Jews live in the southern end of the town. The boatmen of Anah MEEDAD. are famous for their knowledge of the Euphrates. Administration and Authorities.—Anah is the head-quarters of a Kaza in the Vilayet of Baghdad. There was a small Turkish garrison in the place. III EZ-E i mi TEF 'AQREH, about 740 m. ENE. of Mosul. Pop. 3,000 (1,000 houses). neri wa le Routes Routes-(i) To Mosul. (See Route 45 a.) H (ii) To Zebān and across the Great Zāb to Neri. ni Routes (iii) To Ashkān and Rowanduz via Qandīl ferry. (See Route ii Bag 45 a.) (iv) To Amadiyeh via Herin. General Description. - The village stands partly on a steep col, in To 1 connecting an outer and lower hill called Giri with a higher one on H To: which is a prehistoric fort, and partly in two valleys which come down from the hills. These are called Gali Kanyarash and Gali hi To

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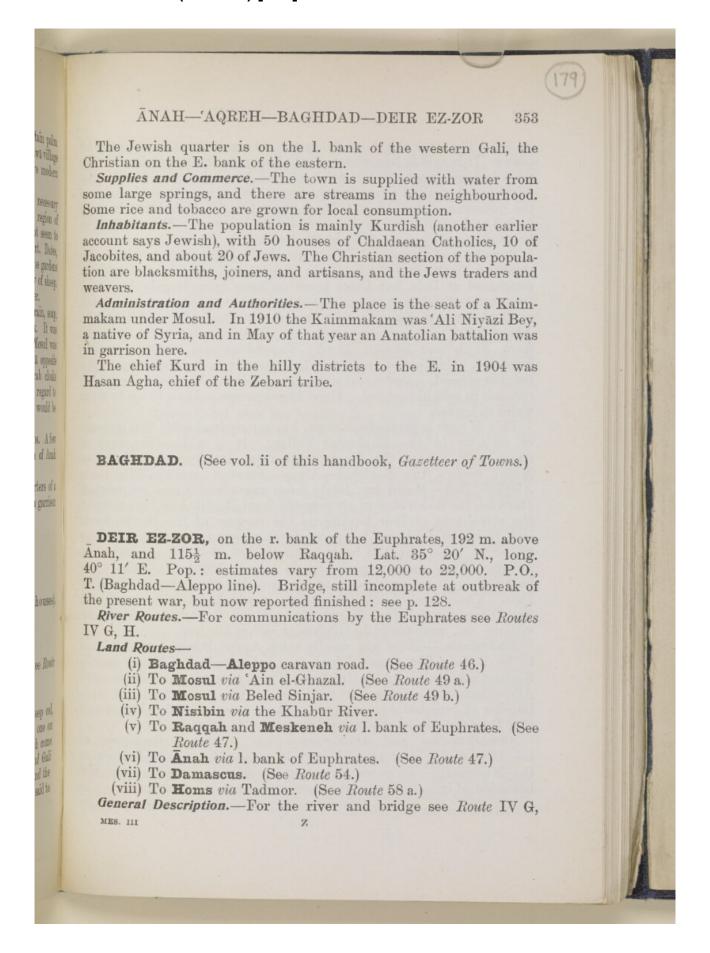
tend De

Sheikh 'Abdul Azīz, and lie respectively E. and W. of Giri and the fort, uniting below Giri to form the Rūdbār Samileh, which is said to

reach the Zāb at Zairāo below Garmak.



"كتيّب بلاد الرافدين. المجلد إلى ١٩١٧" [٣٥٣] (٣٢/٣٦٢)





"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٥٥٣] (٣٦٢/٣٦٣)

354 GAZETTEER OF TOWNS m. 192. The town stands on rising ground above the river opposite an 11 100988 island. It is said to be comparatively European in appearance, having the numb macadamized roads, public gardens, and street-lamps. It has one spen lin fairly broad straight street in which are the bazaar, three khans, and Siltan's the government buildings. There were two Turkish barracks, and a civil and a military hospital here before the war. There is said to A To I be good camping-ground W. of the town. m To E Supplies and Commerce.—In peace time all necessary supplies for caravans (including sheep, grain, fruit, and vegetables) could be purchased at Deir, but these seem to have been largely imported [To] from other districts. It was stated in 1903 that there was no grain inral Desc available for export grown in the country between Deir and Sabkhah. at Assyr About 5,500 tons were imported from Birijik and about 1,600 tons les Ishtar, from Najib and Sheikh Arūd. Vegetables and fruit were also und its to imported. Cultivation, however, has recently been increasing in the se battle neighbourhood. Sheep and other live stock might be obtained from in in the nomads in neighbourhood. Good blood-horses. Water-supply from 31. Late wells and river. metity dis Deir is now a prosperous town, having revived with the increase mnetan (of security in the Euphrates Valley. It is a meeting-place of trade routes: here the direct route from Damascus or Homs to mits post Mosul crosses the Baghdad—Aleppo caravan route. Aleppo—Deir—Mosul has lately been more and more frequented. Here too the down-stream river-traffic from Birijik has its entrepôt, dilout the the merchants of Deir buying up the cargoes of the Birijik boats and re-exporting them to places further down the river. It was stated in 1903 that 150 boats annually left Deir for towns downstream. They mainly carried grain (about 700 tons). The same boatmen are not accustomed to navigate the river above and below Deir. There was a horse-market here in which good thoroughbreds were bought and sold. Manchester cottons, tinned food, fresh provisions, &c., were found in the bazaar before the war. Inhabitants.—These are mostly town Arabs (Sunnis), and are said to be a very low class. There is a colony of Christians, mainly Syrian Catholics (Jacobite Uniates). There also are some Jews, some ik On Armenians, and a Circassian settlement NW. of the town. A large number of deported Armenians were kept here in 1915. It was said that they were to be made to work on the Baghdad road. Administration and Authorities.—Deir is the head-quarters of rame di the Deir ez-Zor Mutessariflik, and is under the administration of the Mutessarif. In peace time there was a garrison here of one nies an battalion of infantry and some mounted infantry on mules. THE OF



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٥٥٥] (٤٣٢/٣٦٤)

180 DEIR EZ-ZOR—ERBIL 355 ERBIL, about 48 m. E. by S. of Mosul. Pop. about 39,000 oe, having (1,800 houses). Another estimate gives the population as 15,000 has one and the number of houses as 3,000. T. (Baghdad-Mosul line; and branch lines to Rowanduz, to Qal'ah Dīzeh via Köi Sanjag, and to the Sultan's estate at Makhmur). B Sill h Routes-(i) To Köi Sanjaq. (See Route 42.) opplies for (ii) To Rowanduz (a) via Shakhlawa. (See Route 43 a.) (b) via Bahirka. (See Route 43 b.) no grain (iii) To **Mosul**. (See *Route* 25 a, m. 245\frac{1}{4}.) General Description .- Erbil (Assyrian 'Aba-Ilu, 'Four Gods') was .600 tres a great Assyrian city, being especially famous for its cult of the Were also goddess Ishtar, and under Persian rule it continued to be a considerable place, and its temple of Ishtar was still famous. Alexander won the decisive battle that made him master of the Persian Empire somewhere in the plain to the SW. of Erbil near the Great Zāb in B. C. 331. Later Erbil was the burial-place of the Parthian kings. mereise Its sanctity disappeared with the rise of Christianity, and since the Mohammedan conquest its history has not been of general importance, Homs to though its position as a road centre in a fertile district has ensured he route its continued existence. The battle which transferred the Caliphate from the Omayyad to the Abbasid family was fought in the neighbourentrepit. hood about the middle of the eighth century. ik bosts The modern town of Erbil stands partly on a large artificial mound It was of Assyrian origin, which rises 200 ft. above the plain with a slope of 1 down in 1. The mound is 600 yds. in diameter. It is surrounded by a ring Same wall, against which houses have been built on the inside, with windows pierced through to the outer face. Inside, on the summit of the hill, hbreds there are many winding streets, some being only 4-6 ft. wide and sh prvvery intricate. There are only two gates, both on the SW., with camps leading up to them. Below the mound a large quarter (said re sail to be growing) has sprung up to the W. and S. The khan, baths, namly posting-station, and telegraph office are at the foot of the hill on the W. side. On the NW. side is a one-storied block of mud barracks. some large On the N. and E. sides of the citadel are the remains of a wall of mud as said 4ft. thick which would still make a good parapet. The stony bed of the Erbil River (usually dry) lies about 1 m. SF. of the town, and $1\frac{1}{2}$ m. ers of in the same direction is Badowa, a village of 50 houses of Dizeih Kurds. WSW. from the mound, just outside the town, is an old minaret. ion of f one Supplies and Commerce.—The Kaza of Erbil produces large quantities of wheat and barley, with a considerable surplus for export to Baghdad via the Tigris. There is much corn-land in

"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ " [٥٦] (٣٦٠/٣٦٥)

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the plain and undulating country which surrounds the town and in the district of Shemamlik to the SSW. Some rice is also grown in the neighbourhood. In the hills to ENE., supplies of fruit, vegetables. and firewood can be obtained among the Kurdish tribes, who bring them into Erbil for sale. The capacities of Erbil as a supply centre are increased by its position at the meeting-point of numerous routes. In October most of the streams are dry, but abundant water can be obtained from karez and wells. There is a large karez, led first through an open brick duct 3 ft. above the ground and 4 ft. broad, where animals are watered, and then into a large masonry tank and other channels. It is excellent water if taken where it enters the duct, but becomes contaminated lower down. Water is carried to the upper town on skins slung on ponies and donkeys. The neighbouring tribes bring wool and hides to sell in Erbil, and articles are locally manufactured from these raw products. There is much transit commerce of goods passing between the Kurdish and Persian hills and Mesopotamia.

Inhabitants.—The population is mainly Kurdish, of the Babari tribe. Their language is a variation of the Mukri dialect. There is also a certain Turkoman element, and Turkoman is understood.

Administration and Authorities.—The place is the head-quarters of a Kaza under Kirkuk Sanjaq. The land-taxes are said to produce £T90,000 a year, of which one-third comes from land owned by the Dā'irat es-Sanīyeh. In peace time the garrison consisted of one battalion.

HĪT, on the r. bank of the Euphrates, $79\frac{1}{2}$ m. by river above Fellūjeh, and $119\frac{1}{2}$ m. below Ānah.

Pop. estimated (1909) at 1,600. Houses estimated at 600. P.O.,

T. (Baghdad—Aleppo line).

River Routes.—For communication by the Euphrates see Routes IV E, F.

Land Routes-

(i) Baghdad—Aleppo caravan road passes through Hīt. (See Route 46.)

(ii) To Damascus across the desert. (See Route 52.)

(iii) To Mosul across the desert. No details available.

General Description.—Hit is a small walled town with two gates, built of field stones plastered with mud. It stands upon a mound on the river-bank which is precipitous to the plain, and slopes less

"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ " [٣٥٧] (٣٣٦/٦٦)

ERBIL-HIT-KHANIKIN 357 steeply to the river. A tall leaning minaret near the river-bank is a conspicuous landmark for miles. At the S. end of Hīt are boatin the building yards. There is a khan below the town. In the neighbourhood of the mound on which the modern town stands are other, o bring somewhat lower, eminences which mark the sites of former settleteatre ments. To N. and S. are palm groves. To W. near some Imams are the chief bitumen springs, and beyond them a barren desolate plain of sand, clay, and black-seamed rocks. There is a ferry at N. a large end of the town. The Mesopotamian plain on the other side of the greend river is here quite flat; a little farther down-stream it contains 3 hrz naphtha springs, and beyond these salt lakes. The atmosphere of f taken Hit is smoky owing to the burning bitumen kilns, and the furnaces lover of the boat-building yards. A strong smell of sulphur (from neighbouring sulphur springs) and of boiling bitumen pervades the air; nd hides it is said to have saved HIt from a cholera epidemic. The ground Dese DAW round Hīt is very dirty, owing to the bitumen and sulphur. between Supplies and Commerce.—No appreciable amount of supplies for troops can be expected at Hīt. The cultivated area near the town is a very narrow strip, which does not produce a surplus for export. There is Hit owes its existence to the bitumen springs around it, which are said to have been worked here for 5,000 years. The bitumen has a sale in Mesopotamia for caulking boats, binding bricks, &c. Boatbuilding is an important occupation. The boats are made with by the branches of tamarisk and mulberry trees interlaced with basketof on work of reeds and straw, the whole covered with bitumen and sand. They draw 22 in. when laden, and 6 in. when empty. They are exported to other places in Irak. Earthen pottery is also made at Hīt. Inhabitants.—The population consists of Sunni Arabs. Administration.—Hit before the war was the head-quarters of a abov: Kaza and the seat of a Kaimmakam. P.0, Rote **KHANIKIN**, 94 m. NE. of Baghdad and $6\frac{1}{2}$ m. from the Persian frontier. Pop. 5,000 (1911). P.O., T. Bridge over the Alvand. Routes-It Bu (i) To Baghdad. (See Route 28 a.) (ii) To Kirmanshah. (See Route 28 a.) (iii) To Mandali. (See Route 29.) (iv) To Salāhiyeh (Kufri). (See Routes 32 a, b.) o gates General Description. — The town lies among gardens on both DUD banks of a tributary of the Diyāleh, the rapid Alvand stream, which

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is spanned by a solid brick and stone bridge, with roadway of 25 ft. This bridge was constructed at the expense of the Persian Government to facilitate the weekly postal service between Turkey and Persia. The river here is 60 yds. wide, and fordable. The town lies mainly E. of it. There are some well-built houses in the main streets. The place owes its importance to its position so near the frontier, and on the Shiah pilgrim-route from Persia to Kerbela and Nejef. The Baghdad Railway Company before the war had taken up the scheme, for which a native company had previously secured a concession, of building a branch line from Baghdad to Khanikin. There are several khans.

Climate and Hygiene. — Khanikin is the quarantine station on the Turkish side of the frontier. A report of 1894 states that there is here, as at most of the frontier towns, a European health officer. The altitude of the town is about 1,000 ft. above sea-level, and no extreme of cold is ever felt.

Supplies and Commerce.—Water is abundant, and supplies are said to be plentiful, but few details are given. The gardens are famed throughout the Baghdad Vilayet for the excellence of their fruits, which include dates, pomegranate, figs, and lemons. Barley and wheat are the chief agricultural products.

Inhabitants. —The inhabitants are mainly Kurds and Lurs, with

some Turks, Arabs, Jews, and Persians.

Administration.—Khanikin is the head-quarters of a Kaimmakam in the Baghdad Vilayet.

KIRKUK, on the main route Baghdad—Mosul, $187\frac{1}{2}$ m. N. of Baghdad. Pop. variously estimated at from 15,000 to 50,000. Probably 20,000 is fairly near the number (4,000 houses). P.O., T. Brick bridge of 15 arches across the Hasa Su from Kirkuk to Qarveit Mahalleh.

Routes-

- (i) Main **Baghdad**—**Mosul** road. (See Route 25 a, m $187\frac{1}{2}$.)
- (ii) To Suleimāniyeh. (See Route 37.)
- (iii) To **K**öi **Sanjaq.** (See *Route* 25 a, m. $187\frac{1}{2}$, and under m. $198\frac{1}{2}$.)

(iv) To Taktak. (See Route 40, under m. 32.)

General Description.—The town lies on the l. bank of the Hasa Su, with the suburb of Qarveit Mahalleh opposite it at the W. end of the bridge. In this suburb are the serai, military barracks, military hospital, post and telegraph office, a school, and the residences of



"كتيّب بلاد الرافدين. المجلد الله ١٩١٧ [٥٩٩] (٣٦٨/٣٦٨)

KHANIKIN-KIRKUK 359 指指 many officials. On the W., N., and NE. the low hills stand close 107EIIIround the town, hiding it from view in these directions until one is er and in turn At the northern end the citadel stands on a large flat-topped mound, 130 ft. in height, with the quarter near the Mosque of 'Ali at its base. The Chaldaean community has a new cathedral built by the French Roman Catholic mission. The town contains two arched ear the ar lad bazaars and several khans, as well as public baths which are reported to be very bad. Owing to the sheltered position of the town, the climate is excessively hot and not very healthy in summer. Supplies and Commerce.—The town is said to contain apparently about 500 shops, but the local authorities claim that there are it there upwards of 1,800. Wheat, barley, a little rice, beans, melons, officer. cucumbers, and a few grapes are grown in the country round Kirkuk. and no There are several flour-mills on the bank of the river. The inhabitants were reported in 1903 to own 30,000 sheep in the pastures near the town; but the live stock of the district may have been diminished JES ATE ens are owing to the constant raids of the Hamawand between the years 1906 their and 1909. Water can be obtained after rain or the melting of the snow from the Hasa Su, but there is generally little or no water in the river bed, and most of the rather scanty supply comes from wells. There are oil springs at Bābā Gurgur, 5 m. NW. of the town. With Kirkuk is a centre for the purchase of Arab horses, which are exported. Some cotton is grown in this region, and the chief exports of the place are oil, wool, gall-nuts, wheat, barley, fruit, gum, and a little wine. The chief occupation is that of drapers and mercers, and the chief imports are cotton goods, Kirkuk being a distributing centre for Kurdistan. Fruit trees include the vine, lime, olive, fig, apricot, and mulberry. 0,000. Inhabitants.—The inhabitants are of many races and religions. 0. I. The principal are Turkoman, Kurd, and Arab. There are also Armenians, Chaldaeans, Syrians, and numerous Jews, who are said to own 200 houses out of 4,000. An equal number of houses is said to be inhabited by the Christians of various sects. Arabic and Kurdish are spoken indifferently in the bazaars, and Turkish is understood by most. The town itself has been strongly held by the Turkish Government, which has maintained fair order within the walls. The Sunni element is probably considerably stronger than the Shiah. There is said to be a fanatical population in the quarter round the end of Mosque of 'Ali to the N. of the town; but the Moslems of Kirkuk have been given a good character for honesty and generosity, at any

"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٣٦٠] (٣٦٠/٣٦٩)

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rate in their dealings among themselves. They are said to be more interested in local than imperial politics.

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Administration and Authorities.—Kirkuk and the surrounding country is administered by Mutessarif under the Vali of Mosul. In peace time it was the head-quarters of the 12th Division of the 6th (Baghdad) Corps. The ordinary garrison was a battalion of infantry and a large detachment of infantry mounted on mules.

There is a Persian Consul (in 1909 a Kirmanshah Kurd).

History.—Kirkuk, in recent years an important Turkish administrative centre, is an ancient city. It is fairly certain that the town goes back far beyond Seleucid times, though nothing seems to

be known about its early history.

Three tombs shown to visitors are said to be those of Daniel, Shadrach, and Meshech, and there was also one, now lost, of Abednego. The place was one of the most important sees of the Eastern Church, and figures largely in its martyrology. Outside the town is a mound called Tamazgerd which was generally the scene of martyrdom. It was acquired after the great persecution of Shapur II in the fourth century, and takes its name from Tamazgerd, the stimulator of the persecution in the reign of Yezdigird I, who is said to have turned Christian at the sight of the endurance of the martyrs. About 100 years ago the place was devastated by plague, which carried off most of the educated community and consequently destroyed many local traditions.

KÖI SANJAQ, about ⁹⁰ m. ESE. of Mosul, between Erbil and the Persian frontier. 1,200 houses. T.L.

Routes-

(i) To Erbil. (See Route 42.)

(ii) To Raniyeh. (See Route 40.)

(iii) To Suleimāniyeh. (See Route 39.)(iv) To Rowanduz. (See Route 44 b.)

General Description.—The town lies in a kind of basin about 3 m. across, bounded on N. and E. by low hills. On the N. is a knoll with a ruined masonry fort 250 yds. square with towers at the corners. A report of 1904 states that it was used as a barracks. The town is less squalid than Suleimāniyeh, and has a few good houses.

There are good places for camping in the neighbourhood.

Supplies and Commerce.—There is good water from a large stream and springs to the N. Corn and tobacco are exported down the

"كتيّب بلاد الرافدين. المجلد الله ١٩١٧ [٣٦١] (٣٣٠/٣٧٠)

KIRKUK-KOI SANJAQ-MOSUL 361 Lesser Zāb and Tigris to Baghdad. Pomegranates, apricots, figs, mulberries, melons, cherries, and vines are cultivated, but, according punding to an authority of 1904, without much knowledge of horticulture. sul. In Cucumbers and other vegetables are also grown. Firewood could be the 侃 had from the wooded ridges to N. and E. There is no information as to forage, but it is probably fairly plentiful. Inhabitants.—The population are Kurds, with 50 Jewish and 30 Chaldaean houses. The prevailing language is Kurdish, but Arabic is generally understood. Turkish is spoken only by officials that the and educated people. An authority of 1904 speaks of the local Kurds seems to as being neither interesting nor attractive, without intelligence or Administration and Authorities.—The place is the residence of a Kaimmakam. There is no evidence as to the size of the garrison. s of the tside the scene of MOSUL, on the r. bank of the Tigris, some 230 m. (overland) erd, the NNW. of Baghdad. Pop. 70,000-80,000 (?). P.O., T. Communi-0 15 501 cation before the war with Baghdad, Diyarbekr Rowanduz through Erbil, Suleimāniyeh through Kirkuk. Bridge of boats. which River Routes.—For communication by the Tigris see Routes III D, Land Routes .-(i) To Baghdad via Erbil, Kirkuk. (See Route 25 a.) (ii) To Baghdad via r. bank of the Tigris. (See Route 25 b.) (iii) To Rowanduz via Qandīl ferry. (See Route 45 a.) (iv) To Rowanduz via Girdamamik. (See Route 45 b.) (v) To Deir ez-Zor via 'Ain el-Ghazal. (See Route 49 a.) il and (vi) To Deir ez-Zor via Beled Sinjar. (See Route 49 b.) (vii) To Nisibin via Beled Sinjar or Samukhd. (See vol. iv, Routes 92a, b.) (viii) To Nisibin via Eski Mosul. (See vol. iv, Route 91.) (ix) To Jezīret-ibn-Omar. (See vol. iv, Routes 90 a, b.) (x) To Amadiyeh. (See vol. iv, Routes 67 a, b.) General Description .- Mosul stands on the W. side of the Tigris trough and is bounded on the E. by the river. To the W. of the city the country consists of rocky formations, rising in gentle orners. undulations out of the plain. In the immediate vicinity these OWN IS formations consist of solid beds of compact, granular gypsum, in horizontal strata and non-fossiliferous. This rock is extensively quarried as 'Mosul marble', and varies in colour from pure white to stream bluish grey. Superimposed on the gypsum is a layer of coarse wn the



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ " [٣٦٢] (٣٣١/٣٧١)

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GAZETTEER OF TOWNS

friable limestone, abounding in shells. This layer is thin to the W., but much thicker to the S. of the city, where it is extensively

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quarried for building purposes.

The Tigris at Mosul cuts into the side of its trough and threatens some of the buildings of the town. The whole river-bed, covered in high flood, is about 675 yds. broad, and there is a deep channel on the W. of about 150-200 yds. The bridge of boats crosses the river from a pier 32 yds. long opposite the Bab el-Jisr Gate (in the southern half of the river-front) to a gravelly bank which is submerged when the Tigris is in flood. The boat-bridge is 125 yds. long, and has a roadway of rough planking 24 ft. wide, which is laid on 17 pontoons, flat-bottomed boats 26 ft. long by 10 ft. wide. with a waterway 10 ft. between each and its neighbour. gravelly bank on the E. side of the river is crossed by a bridge of brick faced with sandstone, which is laid at an angle of about 45° to the boat-bridge. The masonry bridge is approached from the pontoon-bridge by a ramp 46 yds. long, and has a total length of 278 yds.: the roadway, which is 16 ft. wide, is laid on 29 arches, each of 20 ft. span, and at the eastern end there is a ramp 52 yds. long. Beyond the E. end of the masonry bridge the road may be under water for as much as 150 yds. in the flood season. In high flood the boat-bridge is removed, and the river is then crossed by These boats (of which about 30 used to be available) are each about 24 ft. long by 8 ft. wide. They are punt-shaped, with the stern cut down to allow animals to go on board. Each boat can take 6 laden mules. The boat-bridge may be expected to be in position from some time in the early part of June to the end of March.

The town of Mosul, though dusty, glaring, and treeless, is not unpicturesque at a distance, the outline of the walls being broken by numerous domes, minarets, and towers. The city is partially surrounded by badly-built rubble walls, 15–20 ft. high, with a thickness of about 6 ft. at the bottom and 3 ft. at the top. These were constructed at the beginning of the last century as a protection against Bedouin raids, and are now out of repair. In many places they have already been breached, and the ditch has been filled in. There are 11 gates. On the river side, houses have been built into the wall, and their windows look out on to the river. To the N. and W. there is an expanse of waste land between the houses and the walls. To the S., beyond the Bāb es-Serai, the river is fringed with mud houses inhabited by raftsmen, boatmen, and fishermen. Behind these houses is a broad road planted with trees, and E. of this is a broad open space used partly as the drill-ground of the

"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٣٦٣] (٢٣٢/٣٧٢)

363 MOSUL he W. garrison, and partly, apparently, as a cattle market. At the end of the road, about $\frac{3}{4}$ m. from the city gate, are the barracks and Government offices, and the residences of the Vali and other officials. The post and telegraph offices lie on the road somewhat nearer to the town. The streets of Mosul are narrow, undrained lanes, winding between blank house walls. A few of the streets are paved with ses the stones, which make very slippery going. The houses are built of sun-dried bricks or of stone ('Mosul marble') set in gypsum cement. Little wood is used in their construction. The larger houses are 5 yds built round a courtyard, into which the rooms and a hall open. Wile. They usually have serdābs, or underground rooms, for use in the hot The The number of houses has been estimated at 12,000. There are numerous mosques and several large khans. The bazaars idge of ut 45° are held in booths in the streets. About the middle of the riverm the front, not far above the bridge, is an old citadel. The church of the French Dominican Mission is marked on a plan of 1873 as slightly W. of the centre of the town. Mosul is not an attractive place; it is insanitary and dirty, with a bad climate and smoky atmosphere. The smoke comes from the nay he gypsum kilns. The most unpleasant quarter appears to be a cluster ed by of some 300 houses near the river, which serves as abattoir, tannery, e) 529 and dye-works for the whole town. In 1906 it was stated that the with Government had twice endeavoured to abolish this quarter, but on both occasions the attempt had provoked a riot. DIE Climate and Hygiene.—The climate of Mosul is very trying in the bei summer. The worst part of the hot weather is from July to September, when the thermometer may go as high as 120° F. in not the day, and not fall below 95° at night. Hot winds blow in from the desert. Even in May a temperature of 100° may be looked for, ially and the cool season does not begin till November. In the cool weather, which is also the rainy season, the nights are often frosty. (See chapter on Climate, vol. i, and accompanying tables.) were Owing to the glare and the dust, the amount of which is appreciably increased by the numerous kilns and pounding mills in which gypsum 18088 din is worked, ophthalmia is common, and tuberculosis is said to be 'terribly prevalent'. Cholera, on the other hand, is not common, though its existence has been suspected. Visitations of plague are reported. Mosul has its 'boil', from which few who reside there long escape; it is said to be not distinguishable from the Baghdad 'date-mark'. Almost all travellers comment on the filthy and men insanitary conditions of the place; which, in the opinion of one observer, call for the abandonment of the site and the building



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٣٦٤] (٣٢/٣٧٣)

GAZETTEER OF TOWNS

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of a new town on another site. Sulphur springs, some of them hot, are found near the Tigris both above and below Mosul (e.g. at Hammām 'Ali, see *Route III E*, m. $167\frac{1}{2}$), and are much resorted to for medicinal purposes.

A hot eddying wind—the Sām—which blows in the desert W. of the city, is said occasionally to affect fatally those who are exposed to it. It is sometimes possible to avoid its worst effects by lying on

the ground.

Supplies and Commerce.—In spite of its arid appearance much of the country from which Mosul is supplied is fertile, and agriculture has on the whole been developing during the past twenty or thirty years. There are said to be about 200 flour-mills in the city. In normal times the bazaars of the town are well stocked with grain, fruit, and meat. The principal crops of the Mosul country are wheat and barley, which ripen in April, and among the minor produce may be mentioned lentils, peas, beans, millet, maize, cucumbers, as well as many fruits—melon, orange, fig, plum, pear, and grape. The date palm grows, but does not fruit freely. Sheep and goats were numerous before the present war.

The water-supply is not satisfactory; there are numerous wells, but they are brackish; and the people rely for their drinking supplies on the Tigris, from which the water is brought on ponies in skins. The Tigris water is considered good except when the river is low. Schemes for a municipal water-supply have been talked of

for years, but nothing has been done.

There is much excellent spring grazing near Mosul. Wood for fuel seems scarcely to be found in the neighbourhood of the city. In normal times timber is brought from the Kurdish hills.

Mosul would make a good centre for the collection of transport animals of all kinds. In peace time numerous donkeys, mules,

horses, and camels could be obtained here.

In the Middle Ages Mosul was an important entrepôt and manufacturing centre, and was celebrated for its jewellery, arms, and carpets, as well as for cotton and silk and embroidered fabrics (the word 'muslin' is said to be derived from the name of the town). Misrule, insecurity of transport, the introduction of cheap machinemade goods, and the diversion of trade by the Suez Canal have in various ways affected its prosperity, but there are still a considerable number of gold and silversmiths, of workers in iron and copper, of shoemakers, and above all of weavers; and only security is required to increase very largely its commercial importance. Mosul is a distributing centre for European goods imported through Aleppo, and for Indian goods which come through Baghdad; and to it are



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٣٦٥] (٤٣٢/٣٧٤)

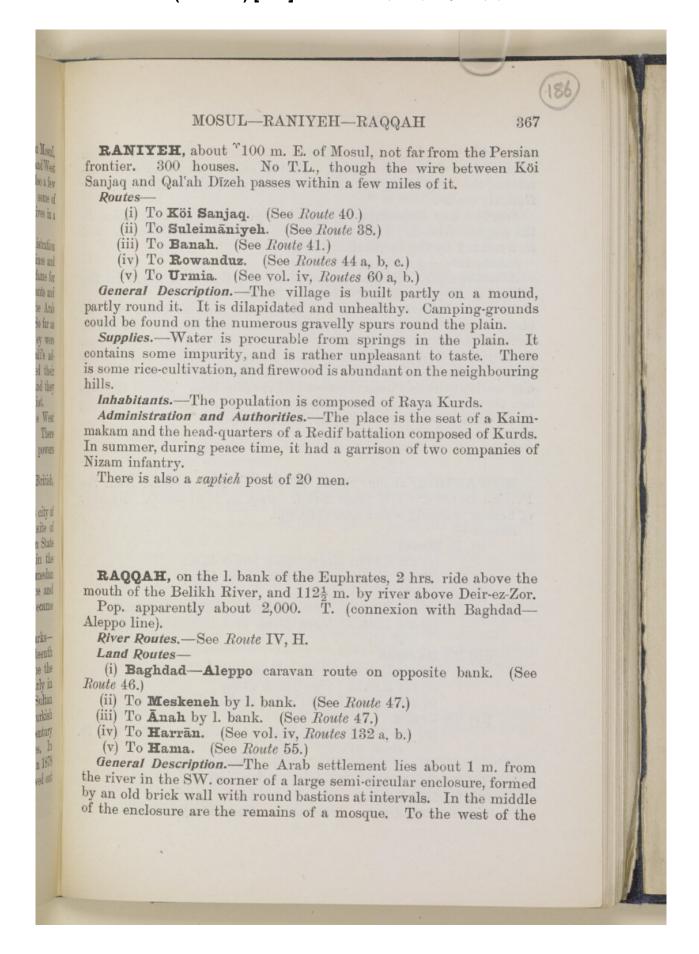
	(185)
	MOSUL 365
1	brought for re-export the abundant raw products and the textile
	fabrics of Kurdistan and NW. Persia.
	The following statistics (giving value in £ sterling) for 1912 show
	that before the war trade was still on a fairly extensive scale:
	Imports. Exports.
	United Kingdom $51,000$ $163,000$
	India 41,000 22,000
	Other foreign countries . 56,000 53,000
	Total 148,000 238,000 Other parts of Turkey . 30,000 188,000
	Grand total 178,000 426,000
	The chief articles of import were cotton piece-goods, and yarn,
	and the demand was increasing in spite of the superior durability of locally woven articles. Iron and copper were always in large
	lemand, Swedish iron being much used. From France came tanned
	eather and cigarette papers, from Austria broadcloths, from India
C	otton goods, coffee, and gunnies, from Persia carpets. Petroleum
1	was also imported. The imports from other parts of Turkey included
	piece-goods, soap (from Aleppo), dates (from Baghdad), dried fruits,
	peas, and nuts. The main exports to other countries were wool,
	hides and skins, boots and shoes; and to other parts of Turkey
	wheat, sheep and cattle, galls, hides, and fruits. In favourable seasons exports of wheat were on a very large scale; in 1908 their
	value amounted to £200,000.
	There is a large local production of flour, the number of mills
	being not less than 200, and there is a good opening for the intro-
(duction of Western methods of milling.
-	About 40 m. from Mosul, near the bank of the Tigris, are the
	Kaiyara naphtha springs, which yield a thick black product. In 1908 the right of exploitation was leased to a native of Erbil, who
	sold the refined product at his own village at 9 to 15 piastres for
	gallons.
	Inhabitants.—The population was estimated about 1904 at 40,000-
	50,000, but more recent calculations raise it to double the former
	figure. Fully three-quarters of the people are Mohammedans, and
	practically all of these are Sunnis. The Mosulis are a race of mixed
f	origin, their language being Arabic. They have a bad reputation
	for turbulence, cruelty, and viciousness. In normal times there is a considerable floating population of Arabs and Kurds.
	The Christians (perhaps about 15,000) are chiefly Syriac speaking,
8	and belong to various sects—the Chaldaeans, West Syrian Catholics,
	and Jacobites are all represented; there are also some Nestorians.



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٣٦٦] (٣٢/٣٧٥)

366 GAZETTEER OF TOWNS There is a large and important French Dominican Mission in Mosul. Mand Qui and at the Dominican mission-school many of the Chaldaeans and West in To K Syrian Catholics have learnt to speak French. There are also a few native Protestants, the converts of an American mission; some of these probably speak English. The strong Jewish colony lives in a To St To B quarter of its own. Administration and Authorities.—The municipal administration F To B before the war was in the hands of the Vali of the province and W To U a council of notables. This council has a particularly evil fame for iteral Des corruption and intrigue. Its members are wealthy merchants and tround it landowners, some of the latter being descended from the Arab oligarchy which ruled Mosul in the eighteenth century. So far as mis. they could not make the Turkish officials their tools, they were ins some generally in more or less concealed opposition to the Vali's administration. For the furtherance of their ends they used their money and influence among the lower classes of the city, and they defitants. have been known covertly to instigate violent outbreaks of riot. inistrati The Chaldaean Christians have a patriarch in Mosul; the West Syrian Catholics and Jacobites have their respective bishops. There was also before the war a Papal Legate with supervisory powers over the Uniate churches of the country. ER IS also In 1914 there was a French consul at Mosul, and also British, Russian, and German vice-consuls. History.—On the l. side of the Tigris, opposite the present city of Mosul, are the extensive ruin-mounds which mark the site of Nineveh. After the fall of Nineveh and of the whole Assyrian State in 604 B.C., no considerable city appears to have existed in the neighbourhood for many centuries. Under the Mohammedan HOAH, Caliphate Mosul rose to importance as a centre of commerce and manufacture, and in the decay of the Abbasid's power it became p appar the capital of an independent kingdom under an Arab dynasty. In the eleventh century it was ruled by a dynasty of Seljuk Turks he Route the Atabegs. It was sacked by the Mongol invaders of the thirteenth nd Route: century, and at the end of the fourteenth was for some time the Baghda head-quarters of Timur Lang. The Persians conquered it early in the sixteenth century, but in 1516 it was won by the Turkish Sultan I lo Me Selim. It was placed under the Pasha of Baghdad. The Turkish Ilo An hold on the city was for long weak, and in the eighteenth century To Ha the city was practically ruled by an oligarchy of local notables. In To Ha the nineteenth century Turkish authority was revived, and in 1878 teral De Mosul became the capital of a separate Vilayet which was carved out of the Pashalik of Baghdad.

"كتيّب بلاد الرافدين. المجلد إلى ١٩١٧" [٣٦٧] (٣٣٢/٣٧٦)

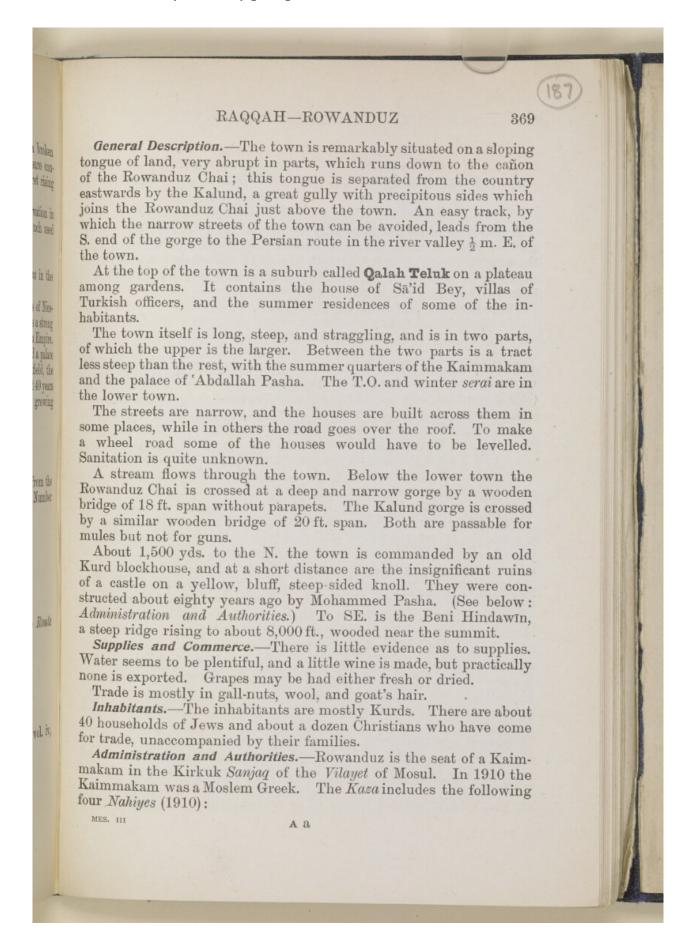


"كتيّب بلاد الرافدين. المجلد إلى ١٩١٧" [٣٦٨] (٣٣٢/٣٧٧)

368 GAZETTEER OF TOWNS and Descri e of land, Arab village, outside the enclosure and standing on high broken Biwandu ground, is a Circassian colony. To the east of the enclosure conands by the taining the Arab village is another ruin-field with a minaret rising he Rowal from its centre. Supplies and Commerce.—There is a good deal of cultivation in the narrow the neighbourhood. The settlement has a bazaar, and is much used as a market by the surrounding Arabs. MI. Inhabitants.—Arabs and Circassians. Administration. - Raqqah is the head-quarters of a Kaza in the a gardens. Vilayet of Aleppo and is the seat of a Kaimmakam. si officers History.—Raggah occupied the site of the ancient cities of Niceots phorium and Callinicum. The later town, Callinicum, was a strong whom itse. fortress and important market on the frontier of the Roman Empire. the my It flourished under the early Caliphs (Harūn er-Rashīd had a palace to than th here), but by the fourteenth century it was a mere ruin-field, the city having probably been destroyed by the Mongols. About 40 years ing town. ago the site was nearly unoccupied, but the place has been growing ustreets ar in size and importance during the last few years. me road tio is qu ROWANDUZ, about 80 m. ENE. of Mosul, not far from the Persian frontier. T.L. from Erbil. Pop. at least 5,000. Number +f 18ft. s of houses probably about 1,000 (1910). inlar W Routes-(i) To Mosul (a) via Qandīl ferry. (See Route 45 a.) (b) via Girdamamik. (See Route 45 b.) ste on (ii) To Erbil (a) via Bātās and Shakhlawa. (See Route 43 a.) nitration (b) via Baba Chichek Dāgh and Bahirka. (See Route 43 b.) mies and (iii) To Raniyeh (a) via Balassān. (See Route 44 a.) (b) via Khata. (See Route 44 b.) (c) via the Nalkewan valley. (See Route 44 c.) (iv) To Urmia (a) via the Kelishin Pass and Ushnu. (See vol. iv, Route 61 c.) mistratio (b) via Neri. (See vol. iv, Route 61 a.) min the (v) To Suj Bulaq. (See vol. iv, Route 61 d.) (vi) To Köi Sanjaq. (See Route 44 b.) (vii) To Amadiyeh. (See vol. iv, Route 62 a.)



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٣٦٩] (٣٢/٣٧٨)



"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧" [٣٧٠] (٣٢/٣٧٩)

000	C A CITEMBET	D OF HOWING	
370	GAZETTER	ER OF TOWNS	
	Nahiye	Head-quar	
	Deireh Harīr	Deireh H	arīr
	Bārak	Gellala Sadāqah	
	Baradost Shirwān	Beirisiyāo	
A hattalio	on of Nizam is usual		
no barracks.	, but camp near the	Government build	lings which lie i
the suburb	of Qal'ah Teluk (190	4). In 1910 the p	lace was the head
quarters of been embod	two Redif battalion	is, probably nomin	ai, which had no
	also a post of 60 zapt	iehs (1904).	
211010 10 1	and a post of		
	IYEH (KUFRI; in		
	dad-Mosul main ro		of Baghdad. Pol
)? 4,000. T. (Bagho	lad—Mosul line).	
Routes—	o Baghdad. See Re	oute 25 a.	
(ii) T	o Mosul. See Rout	e 25 a.	
(iii) T	o Suleimāniyeh via	Zagirmeh Pass.	See Route 34 a.
	o Suleimāniyeh via		64 b.
(v) T	o Qasr-i-Shirin . See I	Routes 32 a. b.	
General l	Description.—The to	wn lies in a plair	at the mouth
a gorge in	a low ridge (300-40	00 ft. high) to the	N., through which
the Cheche	pan (Kufri Su) eme hiyeh stands, is un	orges. The river,	ated treeless plai
extends for	a few miles to the S	and E. for about	10 m. to NW. Th
hill of Bāw	a Shāh Suwār, to the	e N. of Kufri, com	mands an exceller
view of the	town. There are a	shrine and a cer	netery on it. The
town is sur	rounded by a mud w d mud, with flat roo	fs: a few on the S	are built of lin
and gypsun	n from the hills close	by. There is a	stone khan on th
N., outside	the town, and a nev	w khan on the E.	with upper room
It is 40×58	5 yds., with stabling	for 150 horses, and	of rough stone an
	There is another khar r 50 horses.	i, single-storeyed,	oo yus. square, ar
Supplies	and Commerce.—Th	ere is a bazaar at Sa	lahiyeh containin
about 80 s	hops with a fair an	nount of supplies	flour, dates, drie
fruits). The	he neighbourhood is	said to produce go	od wheat, and ne
the town a	are gardens with dat al in normal times.	The water which	h comes from t
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"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ " [٣٧١] (٣٣٠/٣٨٠)

ROWANDUZ—SALĀHIYEH—SAMARRA

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Kufri Su east of the town, is abundant and good. There is very good grazing in the neighbourhood of the town. Fuel is plentiful. In normal times it was estimated that 400 horses and 300 mules might be obtained here.

The Nāsāleh coal workings lie in the low hills E. of the town, the nearest being about $\frac{3}{4}$ hour from the town: the newest workings apparently lie at a distance of 1 or 2 m. The coal obtained before the war was of poor quality, but possibly a better quality has since been found in deeper workings. It is said that three workmen can excavate about 30 cwt. or 20 donkey-loads daily, and the coal is sold in Salāhiyeh at $7\frac{1}{4}$ Rāij Piastres per donkey-load ($3\frac{1}{2}d$. a cwt.). During the war coal has been exported by camel to Sindiyeh (Route III D, m. $45\frac{1}{2}$), and thence floated down the Tigris, and a Decauville railway has been reported.

Inhabitants.—The inhabitants are mostly Kurds, though there are a few Arabs and Jews. The town lies in the country of the Jaf Kurds, whose power has recently been much reduced by the Turkish Government, though they are still a considerable tribe. They inhabit both sides of the frontier and live a semi-nomadic life, moving between the hills and the plains. The Turkish Jaf claim that, though they are the less numerous section, they number 3,000 mounted men: this is probably an exaggeration.

In the country towards Khanikin live the Bajalan Kurds (150 riders) and the Zengabād Kurds (270 riders). The Hamawand Kurds at least as late as 1910 were a serious danger on the roads in the neighbourhood, and in spite of measures taken against them in recent years may possibly still cause trouble.

Administration.—The Turkish Government is represented here by a Kaimmakam, and there was before the war a post of infantry mounted on mules.

SAMARRA, on the l. bank of the Tigris, $89\frac{1}{4}$ m. above Baghdad by river. Pop. 2,000 (?). T.L. to Baghdad. Bridge of boats (32–55, according to width of river). In Oct. 1903 (l. w.), when river was 370 yds. wide, only 270 yards were spanned by 32 boats: on l. bank it was necessary after leaving bridge to cross some shallow water for about 80 yds. to a sandbank, from which the river bank could be reached. Roadway across bridge 12 ft. wide. Reported 1903 to be unfit for wheeled traffic. The Baghdad Railway has been laid as far as Samarra (see Appendix).

River Routes—See Routes III D, E.

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"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ " [٣٧٦] (٣٨١/٣٨١)

372 GAZETTEER OF TOWNS ings of old ataty. A Land Routesgreat Mosq (i) To Baghdad via r. bank of Tigris. See Route 25 b. (ii) Track to Baghdad via l. bank of Tigris, joining Baghdad de 9th cent sagle tow Salāhiyeh road near Khān Nahrawān and Deltāweh. 19) ft. Th No details available. (iii) Across desert to Hīt (†75 m.?). No details available. It b middle apparently runs by Abu Khasheb and S. end of Tartar in by num River, which carries water after rain. my case fa (iv) To Mosul via r. bank of Tigris. See Route 25 b. ziregulari General Description.—The modern town is reported as lying about ithe Malv 400 yards from the river bank. The country round is a rolling and spiral sandy plain strewn with ruins, with few or no signs of vegetation a of Samarra visible from the city. The river varies in breadth between 370 and treb, betw 460 yds., according to the season. Its current is 3 m. an hour a of nearly (mean water?), and the depth is considerable: information reported unreliable estimates it at 30 ft. in deepest places. The l. bank is imlies and (high and steep, shutting off the view of the town from the opposite inted but side of the river. The height is estimated at 60-70 ft. above low-water level. The r. bank is said to be about 30 ft. high (above low-water level) and steep. The banks and river-bottom are Ma Melon the I mainly firm earth, with not much sand and few stones (the sand is In There found chiefly on r. bank). On the r. bank at the bridge is a small village of 40 mud houses and a khan 50 yds. square, with stabling. je water w ilgim-was The town is surrounded by a polygonal wall, with about 15 sides, 20 ft. high and 4 ft. thick, until near the top, where it narrows to little over 2 ft. It is crenelated with 2 rows of loopholes, one at a height of 6 ft., the other near the top. It has four gates, north, south, iles oppo east, and west, and has a semi-circular bastion at each salient angle built to flank the curtains. The ruins and broken ground in the the curre vicinity would afford good cover for an attack. The town is said to contain about 900 houses, mostly of brick, but not only is there much open space within the wall, but many of the houses are empty (as in ishitents.the area S. of N. wall), and the place seems to be declining. Its importance lies in its position on the Shiah pilgrim route from Persia to Kerbela and on its own sanctity as containing the tombs of the is A fer 10th and 11th Shiah Imams, and the cleft into which the 12th Imam (the Imam Mahdi) is believed to have vanished, and from which he ministratio is expected one day to reappear when he comes to establish the true faith upon earth. The principal Mosque in the modern town, where mr.-Sar the Imāms are buried, is jealously guarded against infidel intrusion. The tombs of the 10th and 11th Mahdis are under a dome of fine Persian tiles, while a smaller dome covered with gold-leaf is built over the place where the Imam Mahdi disappeared. Of the ruined



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"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٣٧٣] (٤٣٢/٣٨٢)

SAMARRA

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buildings of old Samarra, the most important lie to the N. of the present city. A few hundred yards outside the walls lie the ruins of the great Mosque (260 yds. × 170 yds.), a large rectangular enclosure (middle 9th century A. D.), surrounded by a ruinous wall, with four large angle towers, with smaller rounded bastions at intervals of about 20 ft. The longer sides run N. and S. There is a large gate in the middle of the southern side. The E. and W. walls are broken by numerous doors. The wall above the larger doors has in every case fallen away. There are 5 gates to the N. Windows occur irregularly. Near the centre of the N. wall stands a minaret called the Malwiyeh, about 160 ft. high, which is ascended by an external spiral path. From the top there is a wide view over the town of Samarra and the neighbouring country. To the N. of the Malwiyeh, between it and the ruins called the Beit el-Khalīfeh, a space of nearly 3,000 yds. is covered with the remains of walls and streets.

Supplies and Commerce.—Local supplies are described in general as limited, but before the war the town must have had sufficient provisions for the numerous Shiah pilgrims who visit or pass through the town. Melons and vegetables appear to be the chief agricultural export. The Baghdad supply of melons comes mainly from Samarra. There are no wells in Samarra containing drinkable water, but the water which is obtained from the river is said to be excellent. The pilgrim-waggons (capable of carrying about 20 men) which ply between Samarra and Baghdad are owned in Kazimain, but in the pilgrim-season there are usually 10–20 of them in the small village which lies opposite Samarra on the r. bank. Large sailing boats (baghalehs and safinehs) can ascend to Samarra, except, apparently, when the current is strongest at flood-time, and quifehs are still in use (see vol. i, p. 166). Before the war a small steamer made weekly voyages to Samarra from Baghdad.

Inhabitants.—Probably about four-fifths of the inhabitants are Shiahs, and there is a Persian community in the place. Persian is said to be more spoken here than Arabic, and Persian coinage prevails. A few Jews are settled here, and there is a small British Indian colony, mostly Kashmīris.

Administration and Authorities.—Samarra is the headquarters of a Kaza in the Vilauet of Baghdad.

History.—Samarra was a small town for many centuries in the Assyrian, Persian, Greek, and Sassanian periods (here the army of the Roman Emperor Julian halted in its retreat from Ctesiphon in A. D. 363, and near the town Julian died of wounds); but at the beginning of the ninth century there seems to have been little

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GAZETTEER OF TOWNS

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on the site but a Christian monastery. In 836 the Caliph Hutasim, anxious for political reasons to leave Baghdad, fixed on Samarra as the site of his new capital; and within the following thirty-seven years a great city rose, extending for 21 m. along the Tigris, with palaces, mosques, and extensive quarters for the Caliph's Guard (a large body of Turks and Berbers who had caused great discontent among the people of Baghdad when the Caliph resided there). About the year 872 the Caliph Muhtadi brought back the court to Baghdad, and Samarra fell into decay, being kept alive only by its connexion with the Shiah sect.

SULEIMĀNIYEH, ⁷60 m. E. by N. of Kirkuk. 2,500 houses. It is the largest Kurdish town in Southern Turkish Kurdistan. T.O.

Routes .-

- (i) To Salāhiyeh. See Routes 34 a, b.
- (ii) To Kirmanshah. See Route 35.
- (iii) To Senna. See Routes 36 a, b.
- (iv) To Kirkuk. See Route 37.
- (v) To Raniyeh. See Route 38.
- (vi) To Köi Sanjaq. See Route 39.

(vii) To Suj Bulaq. Difficult, and impassable for wheels. No details available.

General Description.—Suleimāniyeh lies on the lower slope of the hills between two spurs. Through the valley between the spurs runs an abundant supply of excellent water. The town itself, seen from without, is insignificant, possessing no large buildings or anything conspicuous except a minaret recently erected. It has, however, a fine open square in the middle of the town on to which the Government buildings face, and a very fine vaulted bazaar. The streets are narrow and dirty, and most of the houses are flat-roofed mud huts. A report of 1904 says that the barracks were a rather ruinous line of buildings of burnt brick.

There are no walls or fortifications, the outskirts being composed

of small one-storeyed houses.

Supplies and Commerce.—There are fair supplies of cereals, vegetable and dairy produce from the neighbouring Kurds, though the capacities of the place as a base of supply are probably not what they were 10 years ago, for reasons explained below. The hills to the E. are well-wooded. The water-supply is very good and comes from some large springs near the town.

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SAMARRA—SULEIMĀNIYEH

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At the accession of Abdul Hamid the town was a market for the produce of all southern Kurdistan. Carpets for Mosul and Baghdad came here for sale, gum from Banah began to be sold here instead of in Senna, and a large number of Chaldaeans of Mosul carried on here an extensive and profitable business in the cotton cloths of Aleppo and European fabrics. The beys and pashas of the Jaf tribe entered into agreements to send all the produce of the tribe—skins, wool, tobacco, and butter—to the bazaars of Suleimāniyeh.

In 1880 the value of the trade was estimated at £T500,000. In 1909 it had sunk to £T400,000 and was decreasing. The reason is to be found partly in the history of the town during the interval (see below), partly in the presence of a 15 per cent. customs duty.

An important local industry is the manufacture of fire-arms, especially of rifles. The model for this is the Martini-Peabody American patent, but the bore is that of the Russian Bourdan rifle. All the cartridges are of Russian manufacture. These weapons, which can be turned out at the rate of about 9,000 per annum, are fairly reliable up to 500 yds. One craftsman constructs the barrels (spirally welded strips of sheet-iron), another the locks and springs, a third collects and browns the arms and an agent sells them, the cheapest for £T2, the dearest for £T4. There is an excellent market for the weapons among the neighbouring Kurds.

Shoe-making and saddlery are also important occupations.

The coinage-system and weights and measures at Suleimāniyeh are more than usually complicated. Though it is long since the town belonged to Persia the Persian currency has been retained, no Turkish coin being accepted but the mejidieh. The actual coins are the copper 'pul', the silver 'baichu' or Persian 'panj shahi' and the ordinary 2-qran piece of Persia, here called 'tihrani'. Everything is reckoned in 'qamari', an imaginary coin worth 4 pul. The 'baichu' is worth 7 pul. For larger amounts there is the 'tihrani' which is equivalent to 5 baichu and 1 pul, or 9 qamari. Other names used are 'charkhi', 'jout', 'deh para', 'ghazi', 'qran', and 'qran-i-rash'.

(It may be noted that in Kirkuk the baichu is called a qamari

and the tihrani a gran.)

As for weights, the local 'huqqa' is equivalent to $2\frac{1}{2}$ times that of the Stamboul 'oke', which is the basis throughout Asiatic Turkey. It is also, however, $\frac{4}{5}$ of the Panjurn huqqa, $\frac{4}{5}$ of a Tabriz 'man', and $\frac{2}{5}$ of the Halebjeh 'man'. It is divided into 400 dirhams, and all fractions must be expressed in Turkish.

Inhabitants.—The inhabitants are a mixture of Kurdish, Arab,



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and Turkish stock. There are said to be 100 houses of Jews and 20 of Christians who live in a separate quarter outside the town. Kurdish is the chief language spoken, though nearly everybody understands Persian. The dress is partly that of the Kurds, but in costume and other matters the natives are said to be extremely conservative. They are also suspicious and inquisitorial in their bearing towards strangers.

Administration and Authorities.—The place is the seat of a Mutessarif under Mosul. There is also a Persian consul. The usual garrison is 4 battalions of about 400 men each (report of 1904).

See also under History.

History.—The importance of the place in modern times dates from the time of Suleiman Pasha of Baghdad. In 1779, during his tenure of office, the government of the district, which was then ruled by chiefs descended from a Kurdish priest called Mullah Ahmed, was transferred to the site of the present town. A government house and other buildings were built and the new town called Suleimani. In 1851 Kurdish rule in Suleimāniyeh (the more modern name of the town) came to an end with the seizure of 'Abdallah Pasha and his brother Ahmed. Ismail Pasha, a Turk, was appointed kaimmakam, and a garrison sent to the town.

From now onward the priests, free of the restraints imposed by the Kurdish pashas, gradually acquired for themselves a position which kept both governor and governed in awe. Up till 1876, however, under Sultan Abdul Aziz, they contented themselves with gaining a reputation for sanctity. After the Sultan's death and the accession of Abdul Hamid, Sheikh Sā'id, the leader of the priestly family, began a system of self-aggrandizement and enrichment. This led to revolts on the part of the people who summoned the Hamawands to expel the governor and sheikhs. The arrival of a battalion from Kirkuk drove off the Hamawands and Sheikh Sā'id began a campaign of open robbery, assisted by a very effective spy-system. The merchants were the chief sufferers, many of whom moved into Persia, as did also the fruit and vegetable cultivators in consequence of a 300 per cent. special entry duty imposed on every load entering the town. The ultimate object of the Sheikhs seems to have been to make themselves practically independent. Matters at last reached such a pass that Sheikh Sā'id was summoned, or rather induced, to come to Mosul with some members of his family, where he was murdered by the mob in 1909, at the age of 85. Thereupon fresh revolts broke out in Suleimaniyeh, fomented by the family of the sheikh who had influence both there and in Constantinople, and in August 1909 the sheikhs were still predominant.



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SULEIMANIYEH—TEKRIT and 20 **TEKRIT**, on r. bank of the Tigris, 31 m. above Samarra by river. tom Pop. possibly 5,000; 950 houses. Ferry. erybody River Route. See Route III E, m. 31. ands, but Land Routes. (i) To Samarra (a) along r. bank of Tigris. See Route 25 b, m. 104. (b) L. bank, caravans appear to travel to Dur and Samarra on this side, but there is no regular route, and no details are available. Motes. (ii) To Hit, "85 m. SW., a little caravan traffic; no details available. (iii) To Mosul. See Route 25 b, m. 104. 1904) (iv) To Kirkuk. See Route 26. General Description.—The town is built in the form of a semi-circle on conglomerate cliffs, which at the centre of the town rise to a height of 50-60 ft. The frontage of the town on the river is 400 or 500 yds. The stream here has been estimated at 250 yds. wide in October (1903), and 500-600 yds. wide in May (1910). It is shallow on the Tekrit side. In May 1910 it was possible to wade 100 yds. from the r. bank. The current has been estimated at 2-3 m. an hour (l. w. season). Along the banks, where there are no bluffs, there is a strip of cultivated land averaging \(\frac{1}{4} \) m. in width. W. of the town there is high broken and stony ground, uncultivated. The neighbourhood of Tekrit is covered with ruins of the pre-Mohammedan used by city. There is a wide view over the country to S., N., and E. from an eminence a few minutes W. of the town. Jebel Selweh, 4½ m. WNW., rises to 407 ft. Above Tekrit the cliffs (mud and conglomerate) continue on the h and r. bank. The district immediately above the town is called Qā'im. of the Supplies and Commerce.—A few poor shops; sheep exported overland to Syria. Small local export of cereals, melons, &c.; import of noned cheap manufactured goods. The place is a centre of rafting trade down-stream; many raftsmen live here. Several large boats are Said available, fit to carry horses, which, however, are usually swum ective across the river. The wickerwork quffehs (ferry-boats) carry 10-15 whom men each. ators Inhabitants.—Mixed Arab population; the men are largely employed ed on as raftsmen (some of them are settled for this purpose in Mosul). yeikhs Administration.—The place is administered by a Mudir, under the Kaimmakam of Samarra. of his of 8% by the

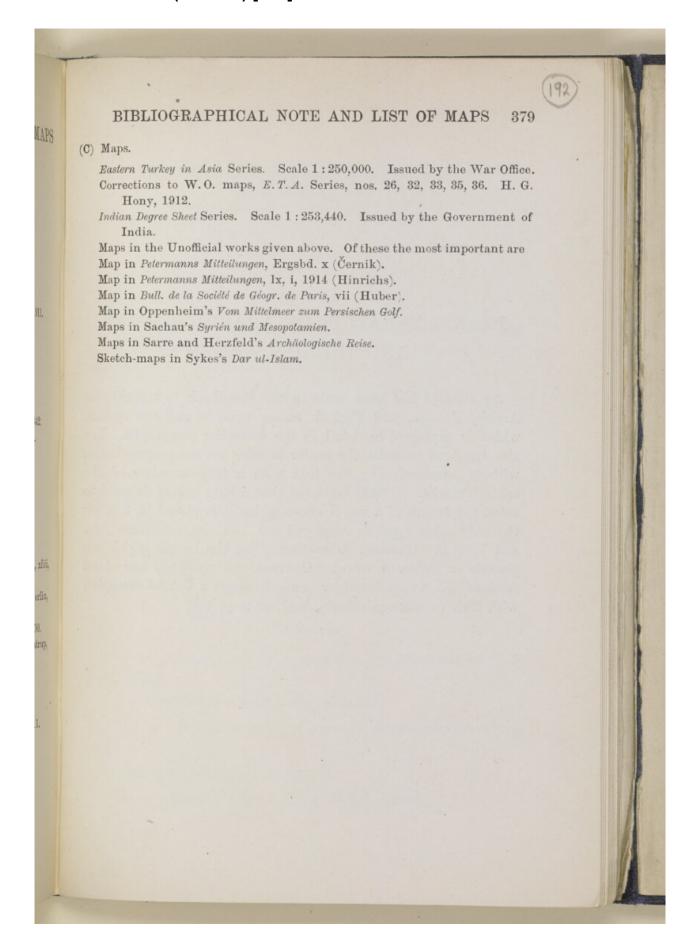


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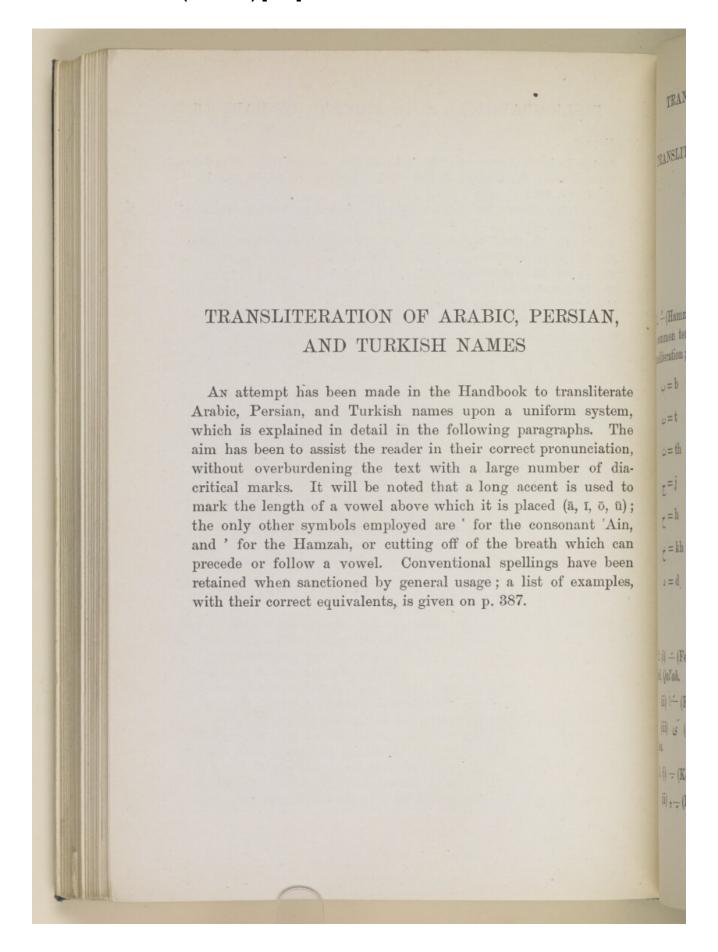


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"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٣٨٠] (٣٨٩٨ع)



TRANSLITERATION OF ARABIC NAMES 381 TRANSLITERATION OF ARABIC, PERSIAN, AND TURKISH NAMES I ARABIC I. Consonants 1
TRANSLITERATION OF ARABIC, PERSIAN, AND TURKISH NAMES I ARABIC I. Consonants 1. '- (Hamzah) = 'except at the beginning or end of a word, and in common terms such as Bir and Ras , when it is omitted in transliteration; e.g. $Ahmad$, $Reja$, $Meda'in$.
TURKISH NAMES I ARABIC I. Consonants 1. $\dot{-}$ (Hamzah) = 'except at the beginning or end of a word, and in common terms such as Bir and Ras , when it is omitted in transliteration; e.g. $Ahmad$, $Rej\bar{a}$, $Med\bar{a}$ in. $\psi = b$
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ARABIC I. Consonants 1. $$ (Hamzah) = 'except at the beginning or end of a word, and in common terms such as Bir and Ras , when it is omitted in transliteration; e.g. $Ahmad$, $Reja$, $Meda'in$. $\psi = b$ $\psi = $
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in common terms such as Bir and Ras , when it is omitted in transliteration; e.g. $Ahmad$, $Rej\bar{a}$, $Med\bar{a}in$. $\psi = b$ $\psi = b$ $\psi = b$ $\psi = c$
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$e = j$ $\omega = s$ $e = gh$ $g = w$ $e = h$
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المام معامل معام
II. Vowels
2. (i) $\stackrel{.}{-}$ (Fet-hah) = a or e according to pronunciation, e.g.
Jebel, Qal'ah.
(ii) \tilde{I} (Fet-hah + Alif) = \tilde{a} , e. g. $Jem\tilde{a}l$.
(iii) & (Fet-hah + final ye, rare in place-names) = a, e.g.
3. (i) — (Kesrah) = i, e. g. <i>Dizfūl</i> .
(ii) \dot{z} (Kesrah + Ye) = $\bar{\imath}$, e.g. $M\bar{\imath}n\bar{a}b$, $Qas\bar{\imath}m$.



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4. (i) $$ (Dhammah) = u or o according to pronunciation, e.g. Jubb, Hodeideh.
(ii) $\underline{}$ (Dhammah + wau) = \bar{u} or \bar{o} according to pronunciation e. g. $Sh\bar{u}sh,\ Kh\bar{o}r.$
III. Diphthongs
5. \mathring{g} $\stackrel{\sim}{=}$ (Fet-hah + wau) = an , e. g. $Haur\bar{a}n$.
6. – (Fet-hah + double wau) = aww, e.g. Fawwāreh.
7. $\stackrel{\circ}{\sim}$ — (Fet-hah + ye) = ei or ai according to pronunciation e.g. Sheikh, 'Ain.
8. $\stackrel{\sim}{=}$ (Fet-hah + double ye) = eyy or ayy according to pronunciation, e.g. $Feyy\bar{a}dh$, ' $Ayy\bar{a}d$.
IV. Remarks
9. Teshdīd ($\stackrel{\omega}{-}$) is represented by doubling the English consonant over which it stands, e. g. <i>Mohammed</i> , <i>Jinn</i> .
10. In the Definite Article (JI), spelled as usually pronounced el the usual assimilation of the l is made before $dentals$, $sibilants$ and l , r , n ; e.g. $S\bar{u}q$ esh - $Shuy\bar{u}kh$, $Har\bar{u}n$ er - $Rash\bar{t}d$.
11. A Hyphen is used only in the following cases:—
(1) After the Definite Article.
(2) Between the following consonants when they belong to different syllables, s-h, d-h, t-h, k-h, z-h, to prevent confusion with the single consonant sh, dh, th, kh, zh; e.g. <i>Is-hāq</i> .
12. Final s (the feminine ending) = eh or ah (et or at before a vowel), e. g. Meskeneh, Qal'ah, Birket esh-Shuyūkh.
13. Final = iyeh (iyet before a vowel), e.g. Zāwiyeh, Zāwiyet. Final = iyeh (iyet before a vowel), e.g. Nāsirīyeh.

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TRANSLITERATION OF ARABIC NAMES 383 1, e.g. V. Compound Words 14. The two components in a compound name (in the absence of the izāfat or JI between them) are written with a capital and without a hyphen connecting them, e. g. Bandar 'Abbās, Hayāt Dā'ūd. 15. When, however, the second member of the compound is a verbal root or is inseparably connected with the first, the whole has been treated as one word whether written in vernacular as one word or two, e.g. Imāmzādeh, Sabzabād. 16. Words which have become Europeanized are left in that form, e.g. Mecca (for Makkah), Basra (for al-Basrah), Medina (for al-Medinah). 17. The Arabic article JI prefixed to names has been omitted in English, except in cases where its retention is authorized by general usage. 18. The word ibn occurring in the name of a person is written without a hyphen before or after it, e.g. Yūsuf ibn Ibrāhīm. II PERSIAN I. Consonants 19. The same as for Arabic, plus: $\dot{z} = \dot{z}$ $\dot{z} = \dot{z}$ p = ب $\dot{g} = zh$ $\delta = g$ ث = s = ch II. Vowels 20. The same as for Arabic.

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384 TRANSLITERA	ATION OF I	PERSIAN N	NAMES	BABIC, F
	III. Diphthon	ıgs		
21. The same as for A	rabic.			Let
	IV. Remark	ks		
22. 'Izāfat' is transli after, e.g. Kōh-i-Siyāh.	iterated by i	with a hyp	bhen before and	Fluid St.
23. Final he (s) is tr shāh, deh.	ansliterated o	only when p	pronounced, e.g.	E # C C C E
	III			3 4
	TURKISH	I		1,1
24. The same as for A))
Modified vowels ö, ü.				1 1
25. A few Turkish wo			ome together, as	ش ش
in Bair, are written with 26. In Turkish a half			advend between	ص ص
k and following vowel.	i addibie g sc	ound is inti	oduced between	ض ض ط ط
				1 1
	IV			ع ع
(6	a) CONSONA	NTS		2 0
LETTER	NAME	TRAN	SLITERATION	ق ق
Final Medial Initial		Arabic	Persian, Turkish	9 9
I K	alif	a	a	0 0
ب ب ب ب	be	b	b	0 0
پ پ پ	pe	7	p	0 0
ت ت ت ت	te	t	t	3 9
څ څ ث ث	the	th	S	1 1
				ي ي
				21

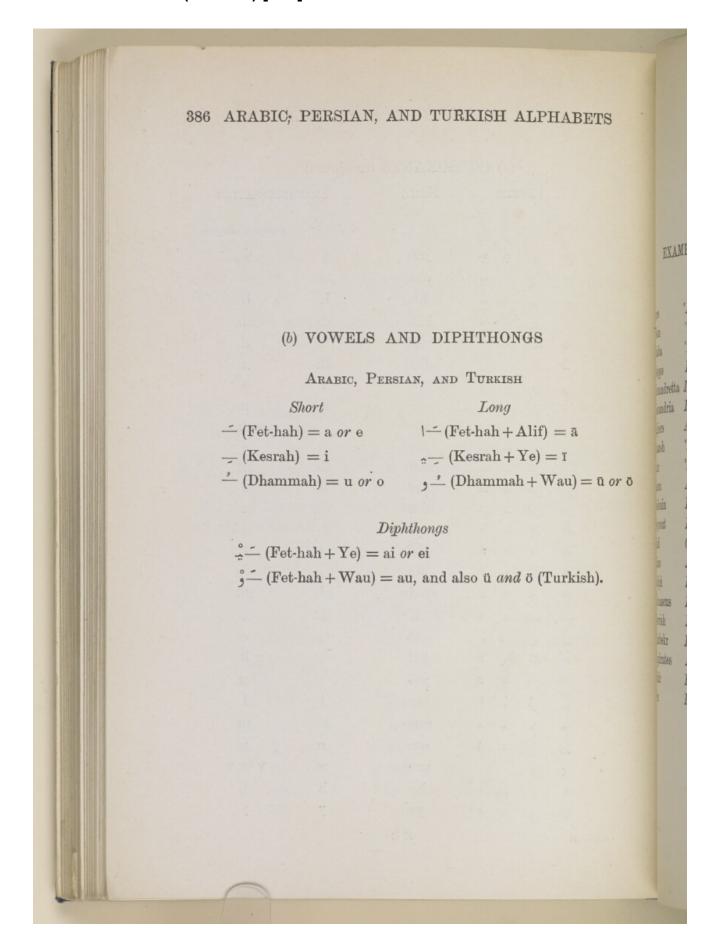


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AF	ABIC, PERSIA	N, AND TUR	KISH AI	LPHABETS 385		
	(a) CO	(a) CONSONANTS (continued)				
	LETTER	NAME		SLITERATION		
	Final Medial Initial		Arabic	Persian, Turkish		
		jīm	j	j		
	S	che		ch		
	7 4 5 5	he	h	h		
	ال ا	khe	kh	kh		
		dāl	d	d		
	ن ن	dhāl	dh	Z		
))	re	r	r		
	; ;	ze	Z	Z		
	2 2	zhe		zh		
	w w w	sīn	S	S		
	شششش	shīn .	sh	sh		
	صممصص	ṣād dhād	s dh	S		
	ض ف ف ض ض	tta	t	z t		
	वं वं वं वं वं	dha	Z	z		
		ʻain				
	2 2 2 2 2 2 2 2 2 2	ghain	gh	gh		
	ف ف ف	fe	f	f		
	(qāf	q	q		
	6 6 X Z	kef	k	k		
	5 5	gāf		g		
	7 7 7 1	lām	1	1		
	0000	mīm	m	m		
	ذ ن ن ن	nūn	n	n		
	9 9	wau	w	v or w		
	8 8 84 8	he	h	h		
	ي ي ي	ye	У	у		
MES.	**	вь				

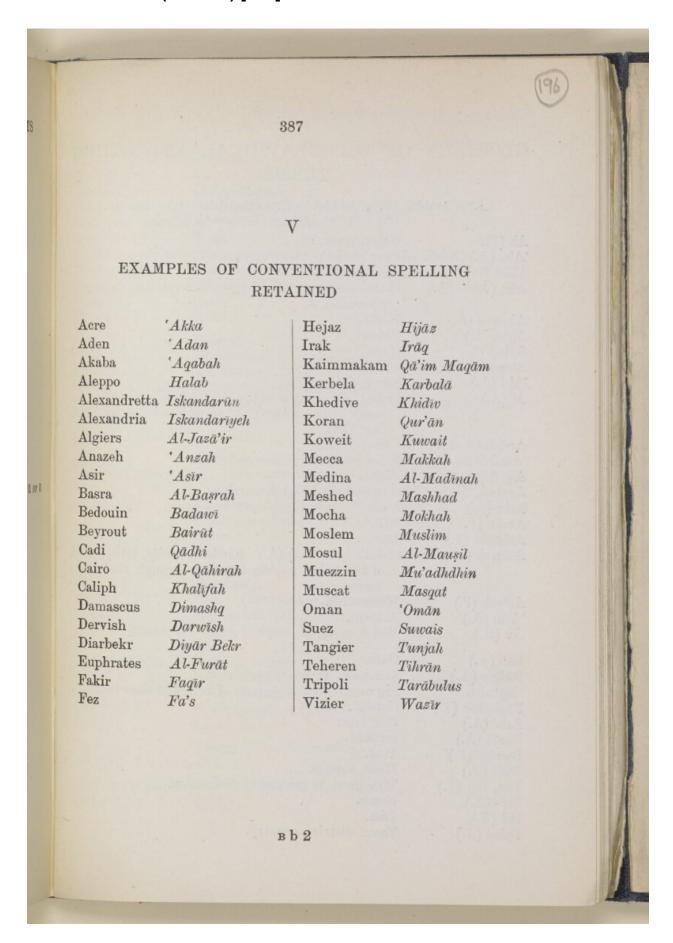


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"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ " [٣٨٧] (٣٣٢/٣٩٦)





"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [٨٨٣] (٣٩٧/٢٣١)

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		SARY
		in (A.)
	GLOSSARY OF TOPOGRAPHICAL AND OTHER	100
	TERMS	(A)
		s(H.)
	$(A_{\bullet}) = Arabic.$ $(T_{\bullet}) = Turkish.$ $(K_{\bullet}) = Kurdish.$ $(P_{\bullet}) = Persian.$ $(S_{\bullet}) = Syriac.$ $(H_{\bullet}) = Hindustani.$	A Ba Ba (A.) Br (T.) a Br (T.) a Br (T.)
	Ab (P.) Water, river.	A fin ger
	'Aba (A.) (Arab. 'abā' or 'abā'ah) Arab cloak.	10 (T.)
	Abad (P.) Town, plain.	n(T.)
	Abu (Abū) (A.) Father (often used, in the genitive relation, to denote possession, &c.).	理)
	Abyadh (A.) White.	7000
	Agha (T.) Chief.	i(L)
	Aghāj (T.) Tree.	2(1.)
	Ahmar (A.); fem. sing. Hamrā Red. 'Ain (A.) Spring (of water).	HE (F.)
	'Ain (A.) Spring (of water). Āl (A.) Tribe; Bū, in the expression Āl Bū (occurring in	mi (Chur
	many tribal names), is an abbreviation of Abū	H(T.)
	(see Abu).	L) Chi
	Ambār (Anbār) (A.) Storehouse.	(L)_
	'Ami, 'Ama (A.) Blind (used of dry stream-beds). Ag. Agcheh (T.) White.	n es-San
	Aq, Aqcheh (T.) White. Arabeh, Arāba (T.) Four-wheeled cart or carriage.	
	Arid (A.) A small desert plant eaten by camels.	±(A)
	Arzān (P.) Millet.	100
	Ashāghi (T.) Lower.	1
	Ashīreh (in genitive relation Ashīret) (A.) Kindred, family, tribe; used of the tribes paying taxation through their own	(2)
	heads.	14)
	Asiyāb (P.) Water-mill.	nd (I.)
	'Atīq (A.) Ancient.	
	Av (K.) Water, river.	E (P)
	Bāb (A.) Gate.	ii Theli
	Bādgīr (A.) Wind-scoop; house ventilator.	1
	Baghaleh Big cargo-boat, sometimes of 200-300 tons burthen.	1
	Bäghcheh (T.) Garden.	田田 (日本) (日田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田
	Bahr (A.) Sea, lake. Banāt (A.) see Bint.	件
	Banāt (A.) see Bint. Bandar (P.) Port.	2(A)
	Bāsh (T.) Head, summit.	1
	Beg, Bey (T.) Title given to persons of distinction.	il (in gr
	Beit (A.) House.	14(A)
	Bel (T.) Pass. Beled (A.) Town, district, country.	
	Louis (III)	
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THE PARTY OF THE P		-
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I	(197)
	GLOSSARY OF TOPOGRAPHICAL AND OTHER TERMS 389
	Bellam (A.) Long narrow boat used on the rivers and marshes of Southern Irak.
	Beni (A.) Sons of (plur., in genitive relation, of Ibn, q.v.). Bhusa (H.) Chopped straw. Bin (A.) Son; variant form of Ibn (q.v.). Bint (plur. Banāt) (A.) Girl, daughter. Bīr (Bi'r) (A.) Well.
	Birkeh (in genitive relation Birket) (A.) Pool, cistern, tank. Boghaz (T.) Pass, defile (lit. neck, throat). Boyun (T.) Col, ridge (lit. nape of neck). Bund (P.) Dam. Büyük (T.) Great.
	Chai (T.) Stream. Cham (K.) Meadowland, field (In T. = pine). Chemen (P.) Meadowland, field. Chenār (A. Sinār). Plane-tree (platanus orientalis). Cherrad (Churd or Karad) (A.) Water-hoist of skins, drawn by animals. Chiftlik (T.) Farm. Chōl (K.), Chöl (T.) Desert.
	Dāgh (T.) Mountain. Dā'irat es-Sanīyeh (A.) The name of the Government Department which manages the Turkish Crown lands. Dānak (A.) Flat-bottomed boat of a kind used on marshes of Southern Irak. Dār (A.) House.
	Darb (A.) Road. Deh (P.) Village. Deir (A.) Monastery. Derbend (T.) Pass. (Pronounced Devrent.) Dereh (T.) Stream-bed, valley. Desht (Dasht) (P.) Plain, plateau, desert. Deveh (T.) Camel. Dhalūl, Dhelūl (A.) Riding-camel. Dīrah. Area within which a nomad tribe usually moves and
	has grazing rights. Durra (H.) Millet. (sorghum vulgare). Dūz (T.) Level, plain.
	Emīr (A.) Ruler, prince, commander. Eski (T.) Old.
	Fātihah (in genitive relation, Fātihat) (A.) Opening. Fethah (A.) Opening.



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390 GLOSSARY	OF TOPOGRAPHICAL AND OTHER TERMS
Gardān (P.) Gavvan (P.) Gechid (T.) Gedik (T.) Gharb (A.) Gharbi (A.) Ghi (H.) Girik (K.) Gök (T.) Göl (T.) Göz (T.) Gumbet (T.) Gund (K.) Gurmah (in geniti	Pass. Small prickly shrub used for firewood. Ford, pass. Pass. West. Western. Clarified butter. Hill. Blue. Lake. Fountain; arch of bridge (lit. eye). Small domed shrine. Village. ve relation, Gurmat) (A.) Canal, channel.
Hadrah (A.) Haji (Hajji) (A.) Hajj (A.) Hamād (A.)	Commercial mission. The title assumed by a Moslem who has performed the pilgrimage to Mecca. The pilgrimage to Mecca; pilgrim caravan. Barren (region), used of the Syrian Desert.
Hammām (plur. H Hamrīn (A.) Hāwi (A.) Hisar (T.)	ammāmān) (A.) Bath. Red; plur. of Ahmar (q. v.). Used in Tigris Valley for a flat foreshore between the river and the side of the valley. Castle. wair). Diminutive of Khōr, q. v.
Ibn (A.) Idhrah (A.) Imām (A.) Imāmzādeh (A.) Irmak (T.)	Son. Mealies. Religious leader; tomb of Imām. Tomb of Imām. River.
Jāmi' (A.) Jebel (A.) Jezīreh (A.) (in ge Jirf (Jurf) (A.) Jirjib (A.) Jisr (A.) Juss (A.)	Friday mosque. Hill, mountain. nitive relation, Jezīret). Island; Mesopotamia. Cliff. Stream-bed dry in summer. Bridge. Gypsum; gypsum mortar.
Kaimmakam (T.) Kani (K.) Kpau (T.) Karez (P.)	Administrator of a Kaza (q. v.). Spring, well. Gate. Underground water-channel.



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GLOSSARY OF	TOPOGRAPHICAL AND OTHER TERMS 391
Kaza (T.)	Turkish administrative district, subdivision of a Sanjaq (q. v.).
Kebīr (A.)	Great.
Kefr (A.)	Village.
Kelek (A., &c.)	Raft of beams and branches, supported on inflated skins, of a kind used on rivers of Northern Mesopotamia (especially the Middle Tigris).
Keli, Kel (K.)	Pass.
Kesik (T.)	Broken.
	Depression in which rain-water collects.
Khāchiyeh (A.)	Light summer cloak.
Khān (P.)	Inn, caravanserai (spelt Khan except with names). Lord, chief.
Kharāb (A.)	Ruin.
Khidhr (A.)	Prophet (used of Elias and a few others).
	ounced Khurbeh, in genitive relation, Khirbet.) Ruin. Sheet of water, bay, inlet, marsh; also used by
Khōr (A.)	Bedouins to denote salt-encrusted ground.
Kilisseh (T.)	Church.
Kināsah Kunāsah	(A.) Shoal or sandbank.
Kirk (T.)	40, numerous.
Köi (T.)	Village.
Köprü (T.)	Bridge.
Küchük (T.)	Little.
Kūh (P.)	Mountain.
Kūt (A.)	Fort.
Kutal (Kotal) (P.)	
(/	
Mā, often pronoun	ced Moi (A.). Water.
Ma'den (T.)	Metal, mine.
Maheileh (A.)	River sailing-craft of large size used in Irak.
Maidān (A.)	Open space, plain.
Malik (A.)	King, chief.
Mamur	Turkish subordinate departmental official.
Mār (S.)	Lord, master.
Māsh	A kind of vetch or pea.
Mashhūf (A.)	A light reed or plank canoe covered with bitumen
M-=- (A)	used on the marshes of Southern Irak.
Mazār (A.)	Shrine. ral, Medā'in). City.
Medineh (A.) (plu	Head-quarters.
Merkez (A.)	Place of prayer; small mosque.
Mezjid (A.)	
Mudir (T.)	Administrator of a Nahiye (q. v.),



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392 GLOSSARY OF TOPOGRAP	HICAL AND OTHER TERMS
Mujtahid (A., &c.) Shiah religious au Mutessarif (Mutesarrif) (T.) Adminis	athority. strator of a Sanjaq (q. v:).
Nahiye (Nāhīyeh) (T.) Turkish admi a Kaza (q. v.).	nistrative district, subdivision of
Nahr (A.) River, canal. Naqīb (A.) Leader, head of contraction (q.v.).	ommunity, local head of Seyyids
Naqībzādeh (A.) Son of a naqīb. Naur (Nāʿūr) (A.) Water-wheel, used Nizam (T.) Turkish regular tro Nullah (H.) Water-course.	
Nuqtah (A.) Police post.	
Pā (P.) Foot. Pīr (P.) Old. Pul (P.) Bridge. Punār (T.) Spring.	
Qabr (A.) Tomb. Qal'ah (in genitive relation, qal'at) (A.) Qanāt (Qanāh, plur. qanawāt) (A.) Conduit.) Fort. anal, water-channel, subterranean
Qanātīr (A.) see Qantareh. Qantareh (plur. qanātīr) (A.) Bridge. Qara (T.) Black, great. Qasr (A.) Palace, castle, fortr	
Qishlāq (A., &c.) Barracks. Qubbeh (A.) Dome, cupola; sma Quffeh (A.) Coracle used on riv Quru (T.) Dry. Qūyū (T.) Spring, well.	all domed shrine. vers of Central Mesopotamia.
Rais (Ra'īs) (A., &c.) Chief. Ras (Ra's) (A.) Head, promontory. Rayah. Subject; used to de	enote that part of the population of pire which pays taxes direct to the
Reāl (A. Riyāl) The Maria Theresa de though still bein	ment (cp. Ashīreh, above). dollar, worth about 2s. These coins, ag minted, all bear the date 1788.
Redīf (A.) Resh (K.) Ribāt (P.) Turkish reserve for Black. Inn, caravanserai.	al medium of circulation in Arabia.
Rūdbār (Rubar) (K.) River.	



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GLOSSARY OF TOPOGRAPHICAL AND Safīneh (A.) Large-sized sailing-craft, user Euphrates. Saghīr (A.) Small. Saijeh (A.) Small boat. Turkish administrative distriof a Vilayet, q. v. Sarīfeh (A.) Ser (Sar) (P.) Head, summit. Serai (Serā'i, Serāyeh) Used in Mesopotamia of in India and Persia it is user Underground room (for protof summer). Seyyid (A.) Sha'īr (A.) Sha'īr (A.) Shakhtūr (A.) Shamāl (A.) Shamāl (A.) Shamāl (A.) Shamal (A.) Shamal (A.) Sharqi (A.) Sharq	d on Lower Tigris and ct, usually a subdivision Arabs. Government buildings; d to mean caravanserai. ection against the heat m the Prophet. d for down-stream navi-
Euphrates. Saghīr (A.) Small. Sājeh (A.) Small boat. Sanjaq (T.) Turkish administrative distriof a Vilayet, q. v. Sarīfeh (A.) Reed and mud hut of marsh Head, summit. Serai (Serā'i, Serāyeh) Used in Mesopotamia of in India and Persia it is used Underground room (for protof summer). Seyyid (A.) Moslem claiming descent from Barley. Shakhtūr (A.) Large flat-bottomed boat used gation on Middle Euphrated Shamāl (A.) North, north wind. Shāmiyeh (A.) Used of the l. bank of the Midelsh-Shām, Damascus). Sharq (A.) Eastern. Sharq (A.) Eastern. Shart (A.) River-bank, river. Chief (of tribe or subtribe); leaders. Shāk (Shī'ah) (A.) Adj., professing, or pertain the two great divisions of Inches the subtribusions of Inche	ct, usually a subdivision Arabs. Government buildings; ed to mean caravanserai. ection against the heat m the Prophet. If for down-stream navi-
Saghīr (A.) Sājeh (A.) Sanjaq (T.) Sanjaq (T.) Sarīfeh (A.) Ser (Sar) (P.) Serai (Serā'i, Serāyeh) Serai (Serā'i, Serāyeh) Serdāb (A.) Serdāb (A.) Shaʿīr (A.) Shaʿīr (A.) Shaʿīr (A.) Shamāl (A.) Shāmiyeh (A.) Sharqi (A.) Sharqi (A.) Shatt (A.) Shatt (A.) Shatt (A.) Shath (Shīʿah) (A.) Shā (A.) Shach (A.) Shath (Shīʿah) (A.) Shach (A.) Shach (A.) Sharqi (A.) Shatt (A.) Shatt (A.) Shatt (A.) Shatt (A.) Shatt (A.) Shatt (A.) Shath (Shīʿah) (A.) Shach (A.) Shach (A.) Shath (Shīʿah) (A.) Shach (A.) Shach (A.) Shath (Arabs. Government buildings; ed to mean caravanserai. ection against the heat m the Prophet. If for down-stream navi-
Sājeh (À.) Sanjaq (T.) Sanjaq (T.) Sarīfeh (A.) Ser (Sar) (P.) Serai (Serā'i, Serāyeh) Serai (Serā'i, Serāyeh) Serdāb (A.) Serdāb (A.) Serdāb (A.) Sha'īr (A.) Sha'īr (A.) Shakhtūr (A.) Shamāl (A.) Shāmiyeh (A.) Shamal (A.) Sharq (Arabs. Government buildings; ed to mean caravanserai. ection against the heat m the Prophet. If for down-stream navi-
of a Vilayet, q.v. Reed and mud hut of marsh and ser (Sar) (P.) Head, summit. Serai (Serā'i, Serāyeh) Used in Mesopotamia of in India and Persia it is used in India and Persia it is used of summer). Seyyid (A.) Underground room (for protein of summer). Seyyid (A.) Moslem claiming descent from Barley. Sha'īr (A.) Barley. Shakhtūr (A.) Large flat-bottomed boat used gation on Middle Euphrated Shamāl (A.) North, north wind. Shāmiyeh (A.) Used of the l. bank of the Midersh-Shām, Damascus). Sharq (A.) Eastern. Sharq (A.) Eastern. Shatt (A.) River-bank, river. Chief (of tribe or subtribe); leaders. Shiah (Shī'ah) (A.) Adj., professing, or pertain the two great divisions of Incomplete the subtribusions of Incomplete the	Arabs. Government buildings; ed to mean caravanserai. ection against the heat m the Prophet. If for down-stream navi-
Sarīfeh (A.) Ser (Sar) (P.) Head, summit. Serai (Serā'i, Serāyeh) Used in Mesopotamia of in India and Persia it is use Underground room (for protof summer). Seyyid (A.) Sha'īr (A.) Shakhtūr (A.) Shamāl (A.) Shāmiyeh (A.) Shāmiyeh (A.) Sharq (A.) Sharq (A.) Sharq (A.) Sharq (A.) Sharq (A.) Shard	Government buildings; ed to mean caravanserai. ection against the heat m the Prophet. d for down-stream navi-
Serai (Serā'i, Serāyeh) Used in Mesopotamia of in India and Persia it is used Underground room (for protof summer). Seyyid (A.) Moslem claiming descent from Barley. Shakhtūr (A.) Barley. Shamāl (A.) Large flat-bottomed boat used gation on Middle Euphrated North, north wind. Shāmiyeh (A.) Used of the l. bank of the MidEsh-Shām, Damascus). Sharq (A.) East. Sharq (A.) Eastern. Sharq (A.) Eastern. Shatt (A.) River-bank, river. Chief (of tribe or subtribe); leaders. Shiah (Shī'ah) (A.) Adj., professing, or pertain the two great divisions of Incomplete the subtribused in the subgradue of	ed to mean caravanserai. ection against the heat m the Prophet. d for down-stream navi-
in India and Persia it is used Underground room (for protof summer). Seyyid (A.) Sha'īr (A.) Shakhtūr (A.) Shakhtūr (A.) Shamāl (A.) Shāmiyeh (A.) Sharqi (A.) Sharqi (A.) Sharqi (A.) Sharqi (A.) Shatt (A.) Shatt (A.) Sheikh (A.) Shiah (Shī'ah) (A.) Shōk (A.) India and Persia it is used Underground room (for protof summer). Moslem claiming descent from Barley. Large flat-bottomed boat used gation on Middle Euphrates Shamāl (A.) Shamiyeh (A.) Used of the l. bank of the Mid Esh-Shām, Damascus). East. Eastern. Shiatt (A.) Sheikh (A.) Sheikh (A.) Chief (of tribe or subtribe); leaders. Shōk (A.) Camel-thorn.	ed to mean caravanserai. ection against the heat m the Prophet. d for down-stream navi-
Serdāb (A.) Seyyid (A.) Shaʿīr (A.) Shaʿīr (A.) Shakhtūr (A.) Shamāl (A.) Shāmiyeh (A.) Sharq (A.) Sharqi (A.) Sharqi (A.) Shatt (A.) Shatt (A.) Shaib (Shīʿah) (A.) Shōk (A.) Shōk (A.) Seyyid (A.) Barley. Barley. Large flat-bottomed boat used gation on Middle Euphrate wind. Used of the l. bank of the Mider Esh-Shām, Damascus). East. Eastern. Shart (A.) Sheikh (A.) Sheikh (A.) Sheikh (A.) Shiah (Shīʿah) (A.) Shōk (A.) Camel-thorn.	n the Prophet.
Seyyid (A.) Sha'īr (A.) Sha'īr (A.) Shakhtūr (A.) Shamāl (A.) Shāmiyeh (A.) Sharq (A.) Shard (A.) Sharq (A.) S	d for down-stream navi-
Sha'ır (A.) Shakhtur (A.) Shakhtur (A.) Shamāl (A.) Shāmiyeh (A.) Sharq (A.) Sharq (A.) Sharqi (A.) S	d for down-stream navi-
Shakhtūr (A.) Shamāl (A.) Shāmiyeh (A.) Sharq (A.) Sharq (A.) Sharqi (A.) East. Eastern. Shiath (A.) Sheikh (A.) Chief (of tribe or subtribe); leaders. Shiah (Shī'ah) (A.) Shōk (A.) Camel-thorn.	
Shamāl (A.) Shāmiyeh (A.) Shāmiyeh (A.) Sharq (A.) Sharq (A.) Sharqi (A.) Eastern. Shiatt (A.) Sheikh (A.) Chief (of tribe or subtribe); leaders. Shiah (Shī'ah) (A.) Shōk (A.) Shōk (A.) Camel-thorn.	
Esh-Shām, Damascus). Sharq (A.) Sharqi (A.) Shatt (A.) Sheikh (A.) Sheikh (A.) Shiah (Shī'ah) (A.) Shōk (A.) Eastern. River-bank, river. Chief (of tribe or subtribe); leaders. Adj., professing, or pentain the two great divisions of I Camel-thorn.	
Sharqi (A.) Eastern. Shatt (A.) River-bank, river. Sheikh (A.) Chief (of tribe or subtribe); leaders. Shiah (Shī'ah) (A.) Adj., professing, or pentain the two great divisions of I Camel-thorn.	ddle Euphrates (towards
Shatt (A.) River-bank, river. Sheikh (A.) Chief (of tribe or subtribe); leaders. Shiah (Shī'ah) (A.) Adj., professing, or pertain the two great divisions of I Camel-thorn.	
Sheikh (A.) Chief (of tribe or subtribe); leaders. Shiah (Shī'ah) (A.) Adj., professing, or pertain the two great divisions of I Camel-thorn.	
Shiah (Shī'ah) (A.) Adj., professing, or pertain the two great divisions of I Shōk (A.) Camel-thorn.	also used of religious
Shōk (A.) Camel-thorn.	
Shu'eih Shu'ih Shi'h Shaih (A) Paying small	
Shu'eib, Sha'īb, Shi'b, Shāib (A.) Ravine, small	water-course.
Shuyūkh (A.) Plural of Sheikh (q. v.). Spī (K.) White.	
Spī (K.) White. Stanga (?) Path built out from or cut i	n the rock in the form
of steps.	in the room, in the form
Su (T.) Water, river.	
Sudd (A.) Dyke, embankment.	
Sunni Adj., professing, or pertaining	
Sūq (A.) two great divisions of Islan Market.	u.
Tang (P.) Defile, gorge.	
Tāsh (T.) Stone.	
Tekīyeh (A.) Hostel for pilgrims.	
Tel (Tell) (A.) Mound, hill.	
Tepeh (T.) Hill.	

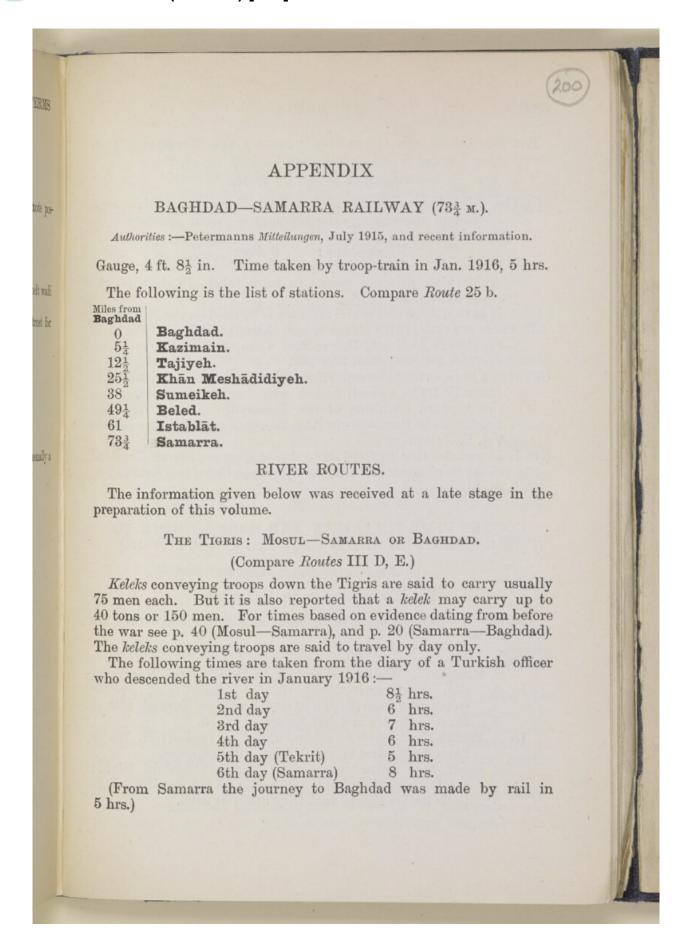


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394 GLOSSARY	OF TOPOGRAPHICAL AND OTHER TERMS	
Tezek Tibbīn (Tibn) Tulūl (A.) Tura (Tur) (S.)	Cow or other dung used for fuel. Straw. Plural of Tel (q. v.). Mountain.	
Umm (A.)	Mother (used, in genitive relation, to denote possession).	ista
Veiran (T.) Vilayet (T.)	Ruined, ruin. Province of Turkish Empire, under a Vali.	鸣
Wādi (A.)	Water-course, bed of stream, river-valley (spelt wadi except with names).	The fi
Waqf (A.)	religious purposes.	- 工作 祖子公路
Wazir (A.) Yāilā (T.) Yeni (T.) Yuqāri (T.)	Chief minister or ruler. Summer pasture-grounds. New. Upper.	所語 · 日本
Zaptieh (T.) Ziyāret (P. &c.)	Member of armed police force. Pilgrimage, place of pilgrimage, sanctuary, usually a tomb.	1000
Zozan (K.)	Summer pastures.	he in
		likk
		DED TOS
		le f
		n des
		English (m)



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396	APPENDIX
THE I	CUPHRATES AND CONNEXIONS BETWEEN THE EUPHRATES AND BAGHDAD
	(Compare Routes IV E-H.)
(e following are estimated normal times for native craft shakhtūrs) descending the Euphrates from Meskeneh to Fellūjeh:—
	March-June: 6 days July-February: 12 days A Turkish prisoner seems to have taken 15 days on the
(ii) Th	rney in January 1916. It is rumoured that metal rafts are to be used on the Euphrates, ere are now (1916) stores of petroleum at Hīt, and depôts of supplies at Ānah and Deir ez-Zōr. Compare Gazetteer of Towns,
(iii) Gra	op. 351-352, 353-354, 356-357. in is reported to be sent from Deir to Ridhwāniyeh (see vol. ii, Route IV D) by a small launch with barge. Ridhwāniyeh is he western terminus of the Decauville railway from the Euphrates to Baghdad via Abu Thubbah and Tel Aswad (see
(iv) It i	rol. ii, Appendix). s reported that in 1916 motor-boats were sent from Baghdad o the Euphrates through the Saqlāwiyeh Canal (see Route IVE, n. 8).
ROUSU	JTES FROM KHANIKIN AND QASR-I-SHIRIN TO LEIMĀNIYEH AND HALEBJEH. (Soane, 1911-13.)
	(i) Khanikin—Suleimāniyeh
	Via Hāūsh Kuri and Halebjeh.
Passa whole r	ble for wheels to Hāūsh Kuri. Caravans frequently use
Miles from Khanikin 0	 Khanikin. General direction to Hāūsh Kuri N.: quite flat. Water en route only from villages off road. Fodder sometimes from district of Ben Kudra, on Turkish side of frontier-towers and fort passed at m. 13. Hāūsh Kuri, on stony ground under low peaked hill. Water from spring and stream. Very little supplies. From here route proceeds up Sirwan (Diyaleh) River:



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	APPENDIX	397
Miles from Khanikin	At Sheikh Nasr-ed-Dīn's village on l. bank, a from Chīāh Surkh (about 14 m. distant). At Banakhilān ford, route from Chīāh Surkh joins from SSE., and route to Suleimāniye Dagh diverges to NW. See Route (iv) below Halebjeh. For route to Suleimāniyeh see Rouse Suleimāniyeh.	and Hurin eh <i>via</i> Qara v.
	(ii) Qasr-i-Shīrīn—Suleimāniyeh	
	Via Hāūsh Kuri and Halebjeh.	
if the roa	ssable for strong carriages as far as Hāūsh Ku d is left at the worst parts.	ri, but only
Miles from Qasr-i-Shīrīn 0 3 10 115?	Qasr-i-Shīrīn. General direction WNW. Setween gypsum hills and the Agha Dāgh, and rising very gradually. Ahmad Naizi, large village in gap in the gy Road continues to rise till the gypsum hills the Agha Dāgh. Road proceeds among hills valleys. Hāūsh Kuri. See (i), above, for this place and of route. Suleimāniyeh.	ypsum hills. s merge into s and small
Oil Competroleum Anoth W. of th Cross fla narrows last. Th after rain mound b here by	(iii) Qasr-i-Shīrīn—Chīāh Surkh. Qasr-i-Shīrīn (A) follow the cart-road of the Argany to their works at Chīāh Surkh (13½ is available for fuel. For road (B) not fit for wheels, though broad in exart-road. Total distance 10 m. General distance outside Qasr-i-Shīrīn, at N. end of and goes over seven sandstone ridges: rocky dence over flat ground to bank of Quretu River, i. Here track crosses some bad gullies. Quret y l, bank of river, 7 m. from Qasr-i-Shīrīn. Ra ford bad after rain. Proceed NE. to Saik ad mud. Cross Qizil stream by ford very bad	m.). Crude parts, goes frection NE. which track lescent from very muddy tu village on liver crossed tavand over

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398 APPENDIX stream is dry after April. Saikavand is a hamlet at foot of cliff on S. side of brook. Broad road hence ascends gradually to a high ridge, whence a bad descent leads through a valley about 1 m. broad, where the ground is marshy and treacherous. From here path ascends steeply to the Oil Company's works at Chīāh Surkh. The Quretu River is crossed by a good ford apparently to E. of that mentioned above. A track leads to it, and, after crossing the Qizil stream 2 m. farther on, rejoins the other track 1 m. before Saikavand. (iv) Chīāh Surkh—Suleimāniyeh Via Hurin and Bānakhilān. Well used by pack-caravans. Hours from Chīāh Surkh. Chīāh Surkh. Proceed N. over undulating plain W. of 0 Dār-i-Divān range to Hajilar Plain, wide and well cultivated, occupied by Sheikhs Hamid Talibani and Tahir. Good going for all pack-animals to-4 Principal village of Hajilar. From here road almost to Hurin flat and good going, except at slight rise over Não Māchik, which presents no serious difficulties. The 'Abbasan ford at foot of these hills is quite easy.

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and maize are obtainable.

Alternative road from Chīāh Surkh to Hurin, not so good as that described above and 1 hr. longer, goes NE. to Dār-i-Divān range, which it crosses by an easy pass, thence through eastern ridge of the same system (no difficulties), to Tilekū Plain, flat and stoneless. Ample water here from spring and the stream, which disappears before the passage between the Band-i-Hūān and Shawaldir hills to E. Road runs through this passage into Ser Qalāū Plain, flat and stoneless. 'Abbāsān R. crossed between Bāwisi (summer village) and Māmishān (no village). Thence road leads along foot of Bamu hills, becoming very stony in parts. Abundant water en route. Hurin in 10 hrs.

Approach to Hurin, on spur of the Bamu, about 400 ft. above the plain, is bad and stony. Water en route at several places, and large quantities of barley, wheat, rice,

From Hurin the road is stony and narrow, across spurs of Khoshik, till a descent is made to Bāsak, whence there is easy going to—

Bānakhilān ford on the Sirwān (upper Diyāleh). Thence two stages by Qara Dāgh to Suleimāniyeh.

المرجع: IOR/L/MIL/17/15/41/4 حق النشر: رخصة حكومة مفتوحة



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Hours from Chīāh. Surkh	(v) Сні́дн Surkh—Нацевјен.	
Burn	From Chīāh Surkh, road leads E. to Pet Bu going so far. Thence over undulating coun Hūān, a narrow passage between the S. end Dīvān and Band-i-Hūān, and the N. end of th Road stony near hills. Water at western me Hūān under a tree, 2 m. E. of Pet Bur. Beyond the Kel-i-Hūān over stoneless plain to	try to Kel-i- of the Dār-i- e Biznān Mt. outh of Kel-i-
4	Ser Qalāū. Small village: scanty supplies: strong spring. Road leads N. over low nec and as it descends into Jaigīran, an almost is taken. The 'Abbāsān and Cham-i-Garrai crossed, and a short distance farther N. is—	water from k of Taqtaq, N. direction streams are
7	Asgilleh village, low down on a spur of B supplies. From here road rises to neck be and N. end of Garrai, and then descends, k Cham-i-Qala stream, which it follows as fa	amu. Some tween Bamu eeping along r as junction
1	with the Naijanao stream. It then ascends Shāh Karam and Pusht-i-Qalan mts. by a track, and descends into Shemīrān Plain. Shemiran Plain. Hence it is 1 day's march The Sirwān is crossed apparently at Sirawā	rough, bad to Halebjeh.



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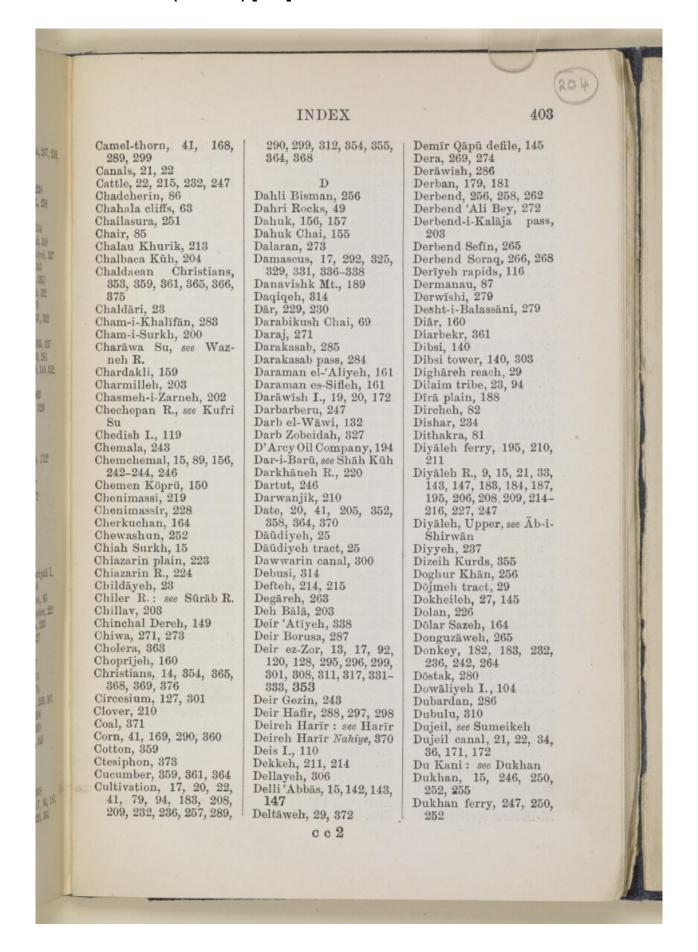


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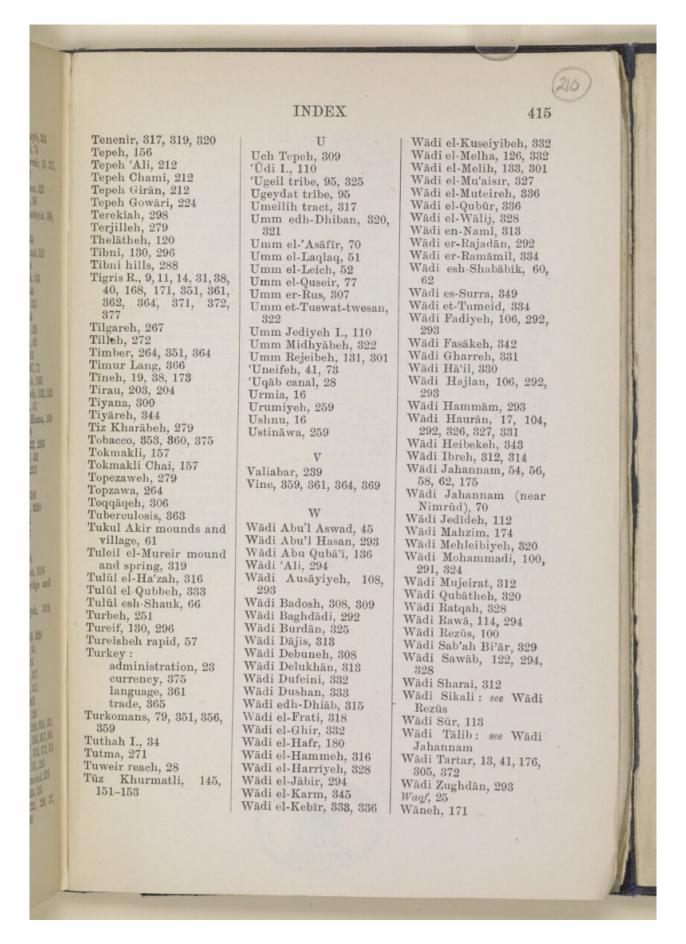


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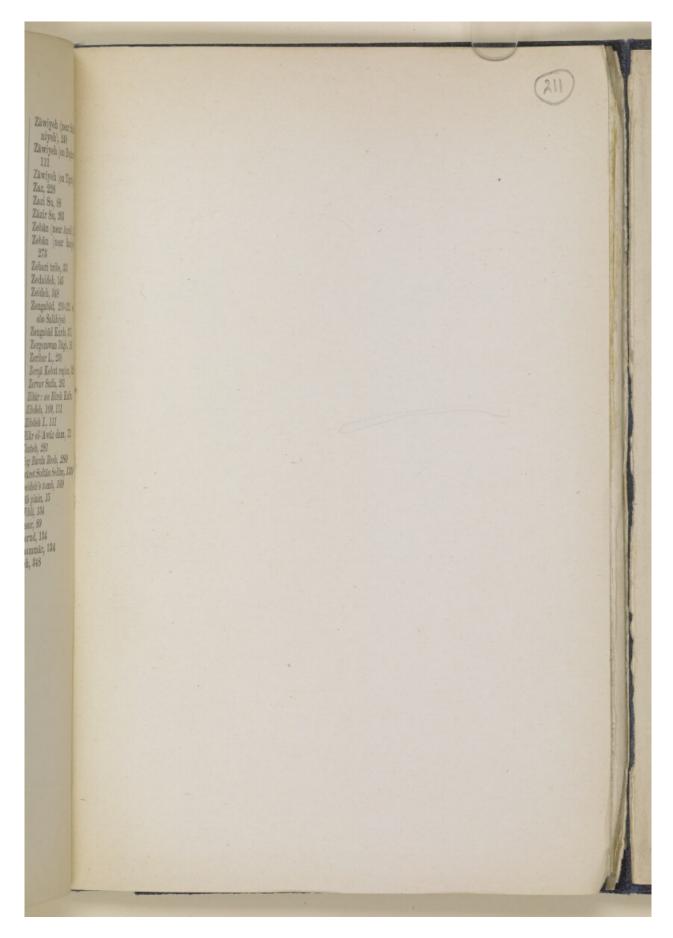


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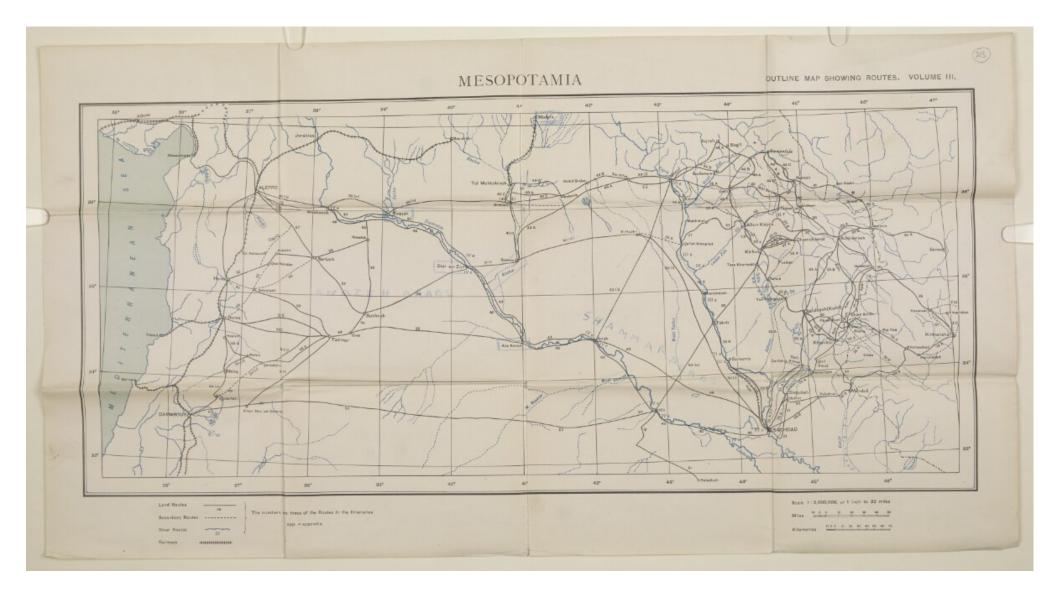


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"كتيّب بلاد الرافدين. المجلد اال. ١٩١٧ [خلفي-داخلي] (٣٢/٤٣٢)

