REPORT

CRABY

WITH MAP

UPON & JOURNEY THROUGH

NORTHERN TIBET AND NORTHERN CHINA

ALSO UPON

THE LATE MAHOMEDAN REBELLION; CHINA'S WEAK RULE; RUSSIA'S INCREASING INFLUENCE IN NORTHERN CHINA.

BT

CAPTAIN M. S. WELLBY, 18TH HUSSABS,

AND

LIEUTENANT N. MALCOLM,

93RD RIGHLANDERS.



SIMLA :

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Intelligence Branch Diary No. 9 of 1807 Tibet

PREFACE.

The following is a brief account of an adventuresome journey of which the greater part lay through absolutely unknown country.

Some interesting information is given regarding the lato Mahomedan ontbreak and also on the spread of Russian influence in Northern China.

SIMLA; 21st August 1897. } GEO. H. MORE-MOLYNEUX, Colonel, Aest. Qr. Mr. Genl., Intelligence Branch.

NOTE.

The object being to explore Northern Tibet and find a new route to ^{Object of jeursy} China and the source of the Chumar river.

Also if possible to discover what influence Russia is gaining in Northern Ohina and how weak the Chinese rule is growing.

Throughout the journey across Tibet plane table work was most carefully carried out by Sub-Surveyor Duffadar Shalizad Mir, XI Bengal Cavalry.

We took latitudes with theodolite or sextant. Hypsometer, thermometer and barometer daily readings were also recorded.

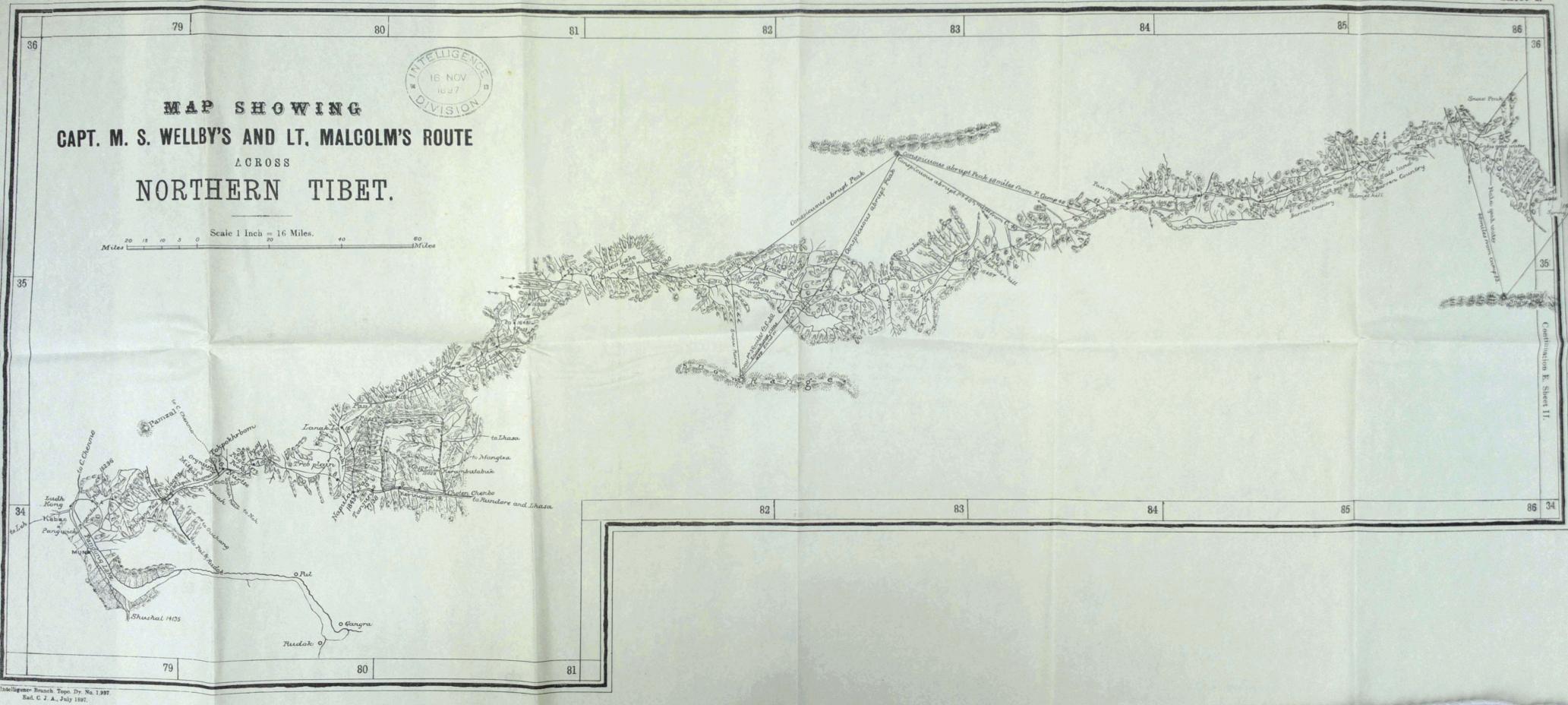
Some 60 photographs were taken with very fair results.

LUCKNOW ;

M. S. W.

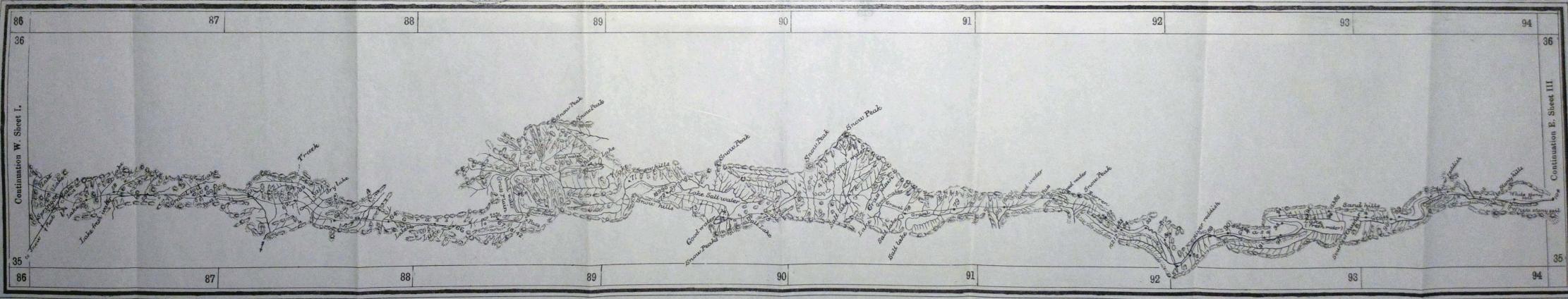
March 1897.

Note.-On our arrival at the frontier of North Western China, we had unfortunately already outstayed our leave by a fortaight. Our journey in consequence of 42 days acress China was a more race against time. Had there heas an our serival at the frontier more time at our disposal we should undoubtedly have been able under the exceptional opportunities that were offered us, to learn something more relating to China's weak rule and of the intentions of the Russians in Northern China's

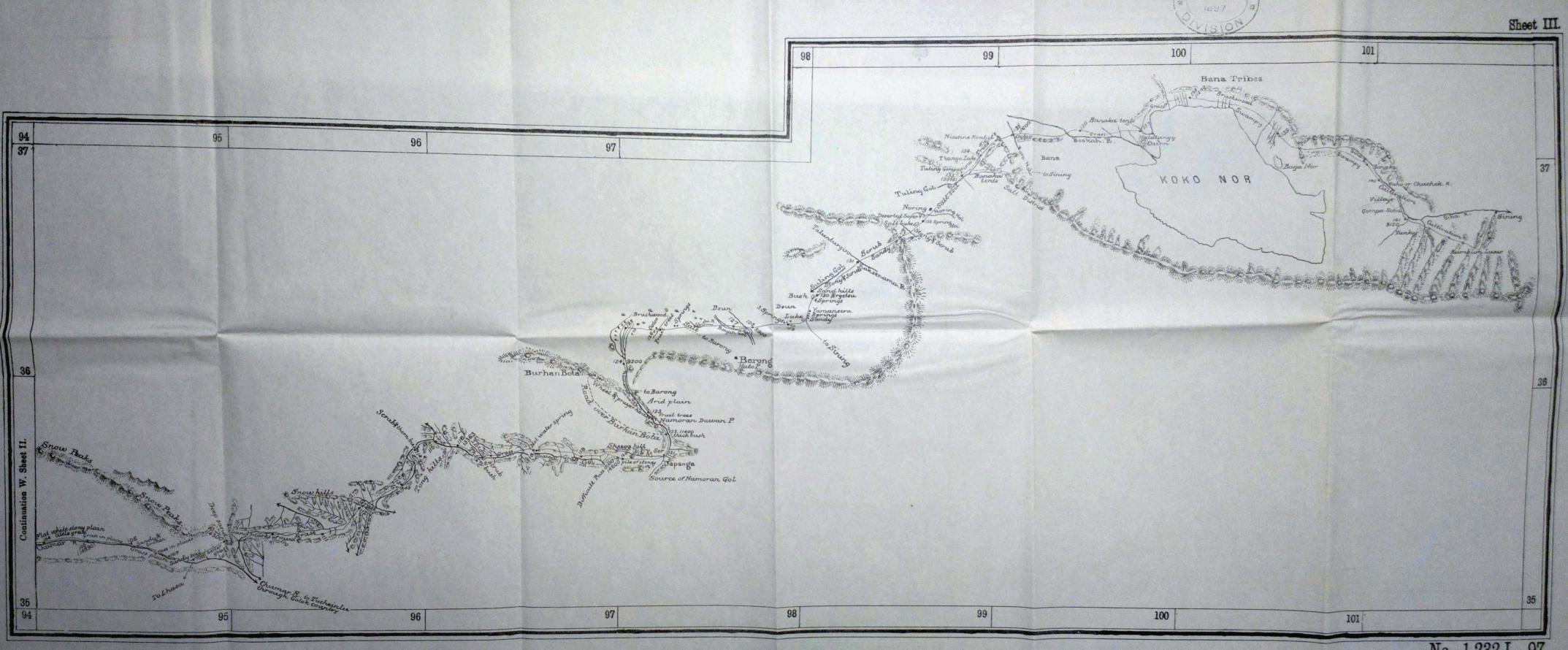




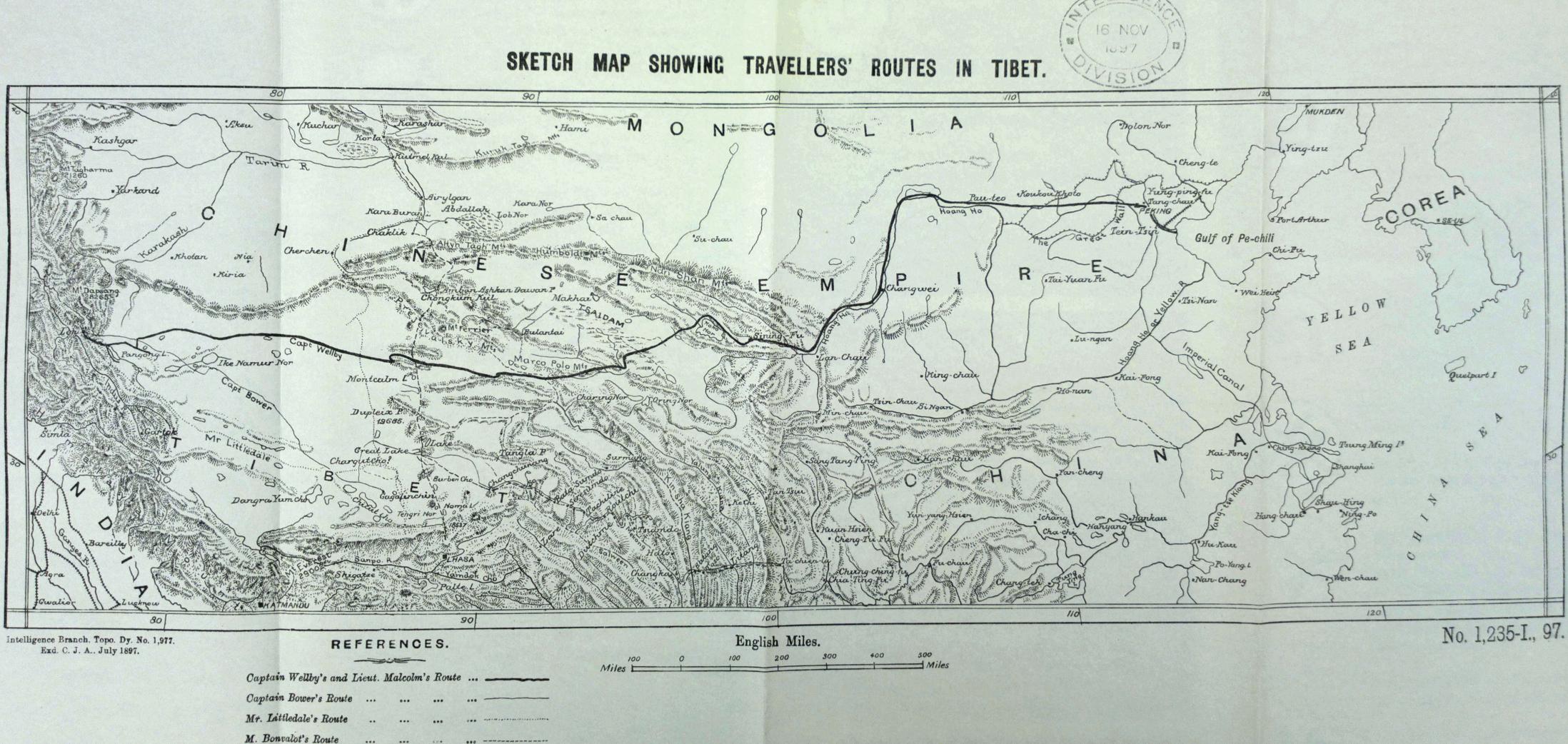




Sheet II.



No. 1,232-I., 97.



REPORT.

On the 4th May 1896, we left Leh for Shushal on the Pangong Lake.

Our caravan consisting of 17 ponies and 22 mules with 8 Argoon and Our carava. Yarkandi drivers a Ladakhi servant and an Argoon cook had left Leh under the supervision of Duffadar Shubzad Mir, on the 28th April, reaching Shushal by easy stages on the 9th May. We joined them on the 10th May and completed our arrangements in buying bhusa and grain. We carried 18 maunds of grain and 25 of bhusa and nearly 43 months rations for the men, namely 2 lbs. of flour or rice a day, besides tea, butter, salt, pepper and spices.

From Shushal the best road for us to take would have been over a pass. the Marsemik La into Chang Chenmo, but this would not have been opened for another one and a half months. We were therefore anxious to take a road by Rudok lying south east of Pangong Lake or between the two Pangong Lakes on to a place called Pal. In order to find out about this latter route we sent two of our men on ahead. They were however, after going about 15 miles, stopped by an armed body of men from Rudok, who advised them that we could not go that way and should we attempt to do so, they would opnose us and there would be trouble.

It was quite evident there was a strong guard at Rudok. They too were well informed of our movements for they knew the date of our departure from Leh, and of our arrival at Shushal. They doubtless have very stringent orders at Rudok against allowing any foreigners to approach this great caravan route to Lhasa.

A glance at the map will show that the only way left, is by way of Ludhkong lying north west of Pangong Lake travelling cast from there. This we decided to do. Ludhkong is two marches from Shushal along the edge of the lake. About half way is the village of Mun, where supplies of grain, sheep, etc., are procurable.

The water of the Pangong Loke is quite undrinkable, but it is fed by several small fresh water streams from this side of the lake and there is no difficulty in reaching Ludhkong, Hero bhusa, milk, sheep, goats and yak in limited numbers are to be had. There is a fresh water stream and a couple of miles off, good grazing and good camping ground everywhere. Just at the north west end of Pangong Lake is another route to Leh shorter than the one we had come, had the passes been open. From here we took another flock of sheep, for those we had taken from Shushal had been unable to reach this place.

At this time of the year, sheep cannot be reckoned upon as part of the commissariat. They have had but poor nourishment during the winter months. and are unable to march even without a load. The second lot we took from Ludikene, bet place Ludhkong all died, with the exception of one, in a very few days. Ludhkong was the last place where we should be able to get any supplies at all.

The only road east, lies over two passes on to Niagzu, and is a three days march without water or grass. With the help of hired yak, we were enabled to accomplish this without any mishap.

At Niagzu, there is a good fresh water stream, some grazing land and Boundary of Ladath plenty of brushwood filled with harcs, it possesses no kind of habitation, but is a boundary mark between Ladakh and Tibet.

We left Ningzu on the 18th May with 15 hired animals and a guide.

We passed through two spots called Mitpah Yungmah and Mitpah Conmah, both having good grazing land and water.

ition from

Shanhal

Sheen.

of supplies,

We were told afterwards, that the Rudok men generally have a small guard at one of these places. We were therefore lucky in evading them.

On the 20th May we reached Lake Treb whose water is slightly saltish, Nomads bring their ponies here to drink the water for medicinal purposes.

Mon from Ladakh also come to collect the salt, on this account we were able to find a guide who knew the way. The salt water marks round the lake show that it must have been of a larger size years previously; there was no fresh water stream running into it.

On the further side of the lake, we crossed over the Napu La a fairly easy pass at this time of the year, but after suow the difficulties of crossing would be great.

Glacier,

On the other side of the pass is a fine glacier.

From here we sent back our hired animals and for the future were dependent only upon ourselves.

Rundore Nemada.

Ou the 23rd May we met a single Nomad who agreed to show us the way as for as Mangtza Cho. He told us that if we continued to follow the valley we were in, we should mete with opposition from the men of Rundore, but in order to avoid this, he would take us up a valley turning to our left; the valley we were in which led to Rundore was well watered and there is probably plenty of good grass in that quarter.

Rundore evidently is a district containing several grassy valleys where men permanently live.

The Rundore men very often go to Mangiza Cho for shooting, several of them have matchlocks and spears.

Rudok officials.

We heard too that many of the Rundore men had been called to Rudok, probably the paraphenolic of our caravan had been greatly exaggerated and the Rudok officials presuming that we were going to travel along the great Lhasa caravan route, had resolved to oppose us with all the force they could collect. This perhaps accounted for the absence of men at Mitpah Yungmah and at Mitpah Commah.

On the 24th May after marching a couple of miles, our guide shewed us two reads, the longer though easier one turning up to the left some way down the valley while the other cut off a corner over the hills, both joining in the same valley of Keranbutabuk.

Rundore officials top our advance. Whilst encamped in this valley of Kerambutabuk, we received a visit from the local official of Rundror and some of his men. They eventually became friendly disposed towards us and would have let us proceed, but just as our difficulties seemed to have cleared, two more officials arrived in hot hasto from Rudok.

They insisted that we must go back by the way we had come, nor could anything alter their decision. They did however agree to give us four men as guides as far as the castern side of Lanak La.

These Rudek officials were reasonable and intelligent men neither to be won by bribes, nor to be frightened by feigning an advance. It then became clear that we could not have proceeded without bloodshed, which we were most anxious to avoid. These officials were convinced that the Lhasa suthorities would demond their heads, should they let us advance. No European they informed us, had ever entered this valley of Kerumbutabuk before.

On the series of the Rudok officials, the demeanour of the Rundore men at once changed and they were most bitter against our proceeding any further.

The point where this Kerambutabuk valley furned to the left from the main Rundore valley is called Kerinagar. Here is a small normal encampment and a limited number of sheep and a little grain can be bought.

Close by is a hill called Chotenchenho, conspicuous amongst many others not only for its size, but because it is said that on the 15th of each month, it emits noises; it is prohably volcanic.

By May 29th we had recrossed the Napu La and traversed the Eastern edge of Lake Treb to Lanak La, having been compelled already to shoot two of the ponies worn out. Here at night time our Rundore guides deserted us and henceforth we were at liberty to go whichever way we chose. We intended if nossible to strike the Polu road which is marked on the map and travel along this for a few days before striking due cast.

· We failed to find any track leading anywhere, so struck a course of our own intending to travel due east as much as possible and to strike North rather than South when compelled to do so,

We also intended to strike off a place called Barkhalu marked on the map. Attention in map.

Such a place as this we are now convinced does not exist, not only by "cason of our failing to find the place, but we could never find anybody who had ever heard of it or of Iman Mula further north-

At this time of the year, the young grass was just beginning to sprout and as ones wellheing depends principally on finding good grass, a month later would have been more favourable for marching in this country.

Had we been furnished with guides who knew the country, and could tell us where to find the grass and where to halt for water, we feel convinced that the first 6 weeks of our journey across Northern Tibet would have been comparatively easy and the deaths in the transport almost nil.

In our case the animals had been severaly tried, even before reaching Lanak La on the Tibetan frontier and at that time a single sheep only remained.

In some places we found "Boortsa" growing. In this there is certainly a great deal of nourishment and saline moisture ; most of the animals generally preferred this to the grass and required but little water when it was plentiful.

The animals suffered but little from sore backs, but died simply from exhaustion, we found the ponies excepting those which had come from Lhasa district were the first to give in.

Of the mules, the large Yarkandi mules could stand least fatigue, the medium sized ones were our best.

On 31st of May we struck our own course from Lanak La.

A reference to the map and road report will show the kind of absolutely uninhabited country we daily traversed for the first 6 weeks.

During this period our route lay principally through a somewhat dreary region abounding in salt lakes and the vegetation was often of the scantiest. almost daily it became necessary to dig for water and the animals suffered severely both from the want of water and grass, in fact by the end of June only 16 out of our original 39 animals remained, and several of these survivors were showing signs that they could not hold out very much longer.

Luckily, we had little or no severe climbing to do, our route for the most part lying down broad open valleys whose height varied from 15 to well over 16 thousand feet above the sca level. These would continue for four or five days, then we would cross a low easy pass into another wide valley.

All the big ranges of mountains and most of the smaller ones had a general direction of running east and west.

Discription of country.

Mules

0

Valenna

Polu med

Monstein

It would in consequence be more difficult to travel this country from north to south.

Fireplace. Signs of On the 13th June camp 28 by a salt lake we found a fire place or chula Nemeta of 3 stones very old, but an unmistakenble sign that normade had been there. Grass was only fair and water only obtainable by digging.

On 18th June Camp 32 height 16,700 we saw a small white butterfly.

Girmann. į

On 2?rd June Camp 36 we hit off a stream which we followed for some time till it wended away northwards increasing in volume and apparently flowing through a grassy country.

Curious Stones. On July 2nd Camp 44 we found a hill covered with round light coloured stones or equal halves of these stones, a little larger than a racquet ball.

On July 7th near Camp 48 were small piles of 3 white stones about 10 yards apart running in two nearly parallel lines for nearly 200 yards.

Eagles, Wild Dogs.

Yak,

On July 12th Camp 52 we saw eagles and wild dogs.

Towards the middle of July the country generally improved, salt lakes became rarer and game which up to now had been somewhat scoree, was plentiful, especially yak which were ridiculously tame, a herd on one occasion grazing amongst our own animals close to the tents.

It is advisable when marching down a broad valley for some days to choose one side instead of the centre.

Butterfly.

On July 10th Camp 59 found a brown butterfly, first coloured one we had seen.

Track to Lasse. The to Lasse. On July 22nd Camp 63 just after leaving camp, we crossed a footpath proceeding almost at right angles to our own course, this was well defined and proceeding around to Labase.

> On this tract one of the men picked up the entire leg bone of a pack animal, clearly showing that a merchant or traveller must at some time or other have come this way, for nomats do not shoe their animals. Although we sent a man up some distance he discovered nething more. This path ran by the western edge of an ancient dry sait bed of a lake. The lake was divided up into small squares by walls two or three feet high of crystalised sait. The salt was of excellent quality.

River.

On July 27th Camp 68, in the midst of a good grassy country we crossed a river which took its rise from some adjacent snow peaks.

The bed was $\frac{1}{2}$ mile across with several small streams a foot deep and was the largest body of water we had come across.

Flowern.

Everywhere good grass, flowers, wild onions and other vegetables, "Kumbuk" and "hann". Yak and antelope were abundant.

The river wound its way into a large lake slightly solitish. In a nullah close by this lake, we found some old sione fireplaces and a well defined track ran round he lake. Marmots, butterfies and hoopnos were biere. Along the track we picked up a stick ± 1 , long another sure sign that nomads had been this way.

By the middle of July only 12 animals remained alive, but the loads were light and fodder being abundant, we got on well.

Muister ;

Our only difficulty was the muleteers who were a lazy, sulky, and unreliable to of men. There is no doubt that with good men, the deaths amongst the mules and ponies would have been far smaller. On 2nd August Camp 74, a climax was reached when all the muletcers deserted in a body leaving only Duffadar Shahzad Mir, our cook and servant.

These muletcers undoubtedly perished.

During the night of 10th August Camp 62, 9 of our 12 remaining animals died through eating a poisonous plant.

Three mules only remained, one of these carried nearly 400. Its from this date. We continued to descend very gradually and from this point followed a small stream daily increasing in volume.

Grass was good though game scarce. On 16th August at camp 88 we saw a black bear.

On 20th August this stream ended in a large fresh water lake 23 miles long by 4, hills covered with rich grass and horken by innumerable small nullabs came close down to the north shore of the lake while to the south a wide plain stretched away to distant mountains.

Round the edges of the lake were well worn tracks probably of game, for this was abundant, but we could see no signs of anyone having been here before.

Anywhere around this lake was splendid camping ground.

Camping Grounds.

On 26th August at the castern extremity of this lake we struck the source source of Chamber of another stream flowing in an eastern direction taking its rise from the bills. Biver.

This we followed and it daily grew larger. Two decent-sized rivers flowed into it from the north (vide read report).

On 6th September Camp 108, fourteen weeks since leaving Lanak La, we Tible and the antifound an encampment of Tibetan merchants on the other or right bank of the river.

These men turned out to be friendly enough, but most avaricious with regard to rupees. They were in fact glad of our presence in the form of a protection against strangers.

The camp consisted of some 20 tents being the combined force of two well-to-do merchants and some minor ones.

They were on their way from Lhasa as far into China as Lancheo, where Line to Loscher they would separate and dispose of their own individual merchandise which consisted chiefly of polu cloth.

They had been 23 months on the road, and expected to reach Barong in the Tsaidam in another 20 or 25 days.

They informed us that the river we had been following was the "Chumar," the very one whose source we had sought.

They told us that it flowed through the Golok country down to Ta-Chamaw Birra. Chiene Lu and that it was the biggest river on the road from Luasa to the Chinese fromtier.

We travelled with these merchants for about a week.

The merchandise was carried by some 1,500 yak and 300 ponies.

Transport.

It is worthy of note that one man only looked after 60 of these yak. Supposing that one yak carries merchandisc of 200 lbs. weight, it is obvious that one man is only necessary for the transport of 12,000 lbs. of goods; the feeding of the yak costs nothing.

The caravan would regulate the length of march according to the grass and water they came to, once they marched 36 miles in two days. Sometimes they would halt for the whole day, probably the average rate of march was 10 or 12 miles a day.

t of mer-	The whole caravan swept away before sunrise, going some four miles an hour.
	On arrival at the next camp the yak were at once unloaded and sent out to graze on the mountain side.
	In a very few minutes after arrival there was nothing to show that the camp had not been pitched for the last month.
	Every thing was carried on with wonderful regularity and silence.
	At sunset, all the yak were driven into camp by two or three men, armed with slings, and picketted to the ropes all ready for them.
	After this, silence prevailed till the camp was reawakened by one of the men shouting out a loud reveille chou-chou-chou-chou-ou.
	The two chief merchants were intelligent fellows and at once recog- nised our two men whom we sent on in front as coming from Ladakh.
	They told the merchants we were a doctor and a merchant. They at once replied "they must be either English or Russians as no other people could make a journey across Tibel like that."
	These merchants at first were willing to talk about things; they told us that no foreigners would ever get to Lhasa and that the determination to stop them was stronger than ever. They afterwards grew suspicious and would tell us nothing, not even the names of the bills.
	These people were absolutely trastworthy, for although daily encamped in their midst we could leave our guns lying about and everything else, in perfect safety.
	On September 14th camp 115, we saw brushwood and thorn bush the first we had seen since Niagzu.
- Shogar-	The same day we crossed the Shugatza or Shugar Gol from 3 to 6 feet deep and stony bottom, with good grazing land along its banks.
	On the 16th September we left the merchants to find our own way.
yring.	On the 17th September camp 118, we found a small stream issuing from a nullah. A short distance up this was a single rock, in the centre of the nullah four feet high. From the top of this rock a spring was bubbling up. The water was fairly hot, but tasteless, though the rock was stained a black and yellow colour.
	The high road from Lhasa which we were following can be but selion used, for at times there is no sign of a track at all, though on some bills are conspicious marks to show where there is a camping ground.
to Lbaan	As far as we could learn from the merchants a large caravan goes every two or three years from Sining carrying chiefly tea to Lhasa.
	Camels too traverse this track.
	On 15th September we left the Shugatza which began to flow away in a more southerally direction, while we steered for some white rocky hills at the entrance to a nullah which led over the range of mountains into the Tsaidam.
	All the way up the nullah were skelctons of tame yak, and we also found a keg of opium.
of Namor ol	After the first range of hills we came to a small hill at the entrance to a multh; on the top of this hill was a large pile of slones ornamented with sticks and red rags. At this spot, called Dapsoga, the Namoran Gol takes its rise and the bill close by, the Mongols call Ser.

Management chant camp

Rossian 1.

Lbam.

. . . .

up and hooked on. iles an

mense camp. All the yak were loaded before day break, the loads merely being lifted

Hot .

Shogatza d Gol.

every Carayan

Bource

At this spot are two roads, one over the Namoran Dawan (pass) which Dapogawe took and the second one a little further west called the Burhan Bota.

The latter road, though a little longer, is generally taken by merchants Reads in Tukkam for it is a better road for yak and they are not likely to get lost in the thick Namona Darma. brushwood which grows on the banks of the Namoran Gol.

On 21st September camp 122, we came to brushwood eight feet high and. the following day wild currants and other berries. We also came to a small Frait building twelve feet square and of the same height; inside was a huge prayer wheel for ever being turned by the force of the stream. On the ledge over the door were many prayers on paper, wrapped up in cloth, while the trees around were decorated with prayers written on linen, the largest of which we took.

On the other hank of the river we saw a black hear

On 23rd September we reached the and of this beautiful nullah and entered Berorg Taidam, an arid stony plain still following the general direction of the river, at one point of the river a track crossed it, which led on to Barong.

On the following day we entered a better country with bush, and eventually found a number of boys and girls on bare backed ponies driving homo their flocks of sheep. We had fallen amongst the Sopor or Sokpor Mongols; they were always pleasant fellows enough with smiling countenances, strong men with powerful frames; neither were the women unbecoming with the tints on their brown faces, while the children looked in perfect health. We never found any kind of illness or disfigurements amongst any of them in this district.

At this time of the year they were living with their flocks in the bush and at other times they live in tents on the banks of the Bayan Gol or in stone Bayan Gol houses at Kyrma and sometimes they take their flocks up the Namoran.

We travelled with these Mongols two days to their tents on the Bayan Gol, a river at this place 20 yards across and three feet deep, soft bottom with fairly clean water flowing five miles an hour.

No fish in the river.

We bought from these people sheep, tsampa (ground barley) tulshi (flour) mar (butter) and churra (cheese). For one rupee we got 4 lbs. of tsampa or tulshi or one pound of mar; a sheep cost 3 to 4 rupees.

These people preferred rupees to knives, watches, and saffron, and were very fond of any kind of pistol and needles (Sui).

The price of their baggage ponies was from 50 to 120 rupees; but riding ponics, would cost a good deal more.

They had a certain number of camels and immense numbers of sheep, black brown and white with fat tails.

They themselves lived on boiled mutton, tsampa, tea and milk and like snuff.

They brought us too, a grain like rape, called "turma" by themselves and "churma" by Tibetans, as well as vermicelli from China.

They lived in a splendid grazing land amidst a jungle of "hermok" (fruit We saw no swamp districts, but a well watered district. bushes).

Their tents were made of sticks covered with thick felts, of circular shape and pointed conical top, with a hole to let the smoke out; and an opening anywhere for a door.

These tents are wonderful protection against a cold wind.

The climate of the Bayan Gol is most genial all the year round and it Bayan Gol. seldom rains or snows, though they can often see it raining hard in the moun. tains around.

Prayer bouse .

Sopor Mongols,

Hear

	During the three days we lived with these people, we could put absolute confidence in them; the same as we had with the Tibelan merchants.
Seper Mongola.	Some of them had been to Lhasa and verified what we had learnt about
Halo Pan.	the country from the morchanits; they also told us that just south of Barong is another pass called the Bhate, but that it was hardly used at all, and not a recognized route like the other two.
Namoran.	It is probable that the Hato runs into the Namoran.
Barong. Bana Tribet.	The merchants told us that at Barong we should be able to get camele to take us to China. But the Mongols told us that no one in Barong would have gone with us now for fear of the Bana tribes, but that if we liked we could wait at Barong till the merchants came and then travel with them.
	Most of these Mongols wore high black boots and thick sheep skin cloaks tucked in at the waist and banging down over their breeches of the same mate- rial. These cloaks are slipped half of on a warm day and the body is left bare.
	A conical shaped hat of while fur rim, and red top, and red tassel was held on the head by a string under the chin, others wore various shaped hats and most smoked the long and small bowled pipe.
Boper Mongols Marriage	These Mongols are allowed two wives, but they can very seldom afford to keep more than one.
	Should a man wish to marry a girl, he sends a friend with a "katag" piece of white cloth to her father. On his retaining the "katag," it shows that his suit is accepted, thereupon he makes presents of money and substance and after much festivity she becomes his wife.
Barial.	Upon the death of a Mongol, the body is put out in the open plain for a few days with a piece of cloth in the mouth, after a short time when the bird and days are considered to have had time to derour the flesh, the friends of the dead man come again and see the corpse. Whatever remains of the bones they sunsh up and scatter about in all directions, so that every morsel is carried away and nothing remains.
	As a matter of fact we did come across some skulls, but no hones of Mongols.
	During the time we lived with these Mongols we were endeavouring to persuade them to take us to Tankar or Sining lending us baggage and riding ponies.
Bana Tribes,	We eventually struck a bargain for 10 ponies at Rs. 20 a piece to take us as far as Sining a journey of 16 days. The reason of their hesitation was their fear of the "Bana" tribes who live round the regions of the Koko Nor.
	They are called in the map " Banakbasum," "Khasum " meaning three. There are 3 Bana tribes.
	These Bana tribes are no doubt of a warlike nature. Only two years ago a Frenchman was killed at Tuling Gompa which we afterwards came to, and since then a party of missionaries had been attacked by these same tribes.
	The Sopor Mongols no doubt dread the Bana people and said that some- times they had made a raid as for as Barong and that they far outnumbered the Barong men. They also said that the Bana men would be afraid when they knew there were any Englishmen in the caravan.
	These Mongols only visited Tankar once in every three years, and not very many of them know the way.

On these occasions they take felt numnahs and possibly sheep for sale, a numnah being worth Rs. 6, same thing in Ladakh for Rs. 2. With the proceeds they bring back, boots, tea, fine flour, and coloured oloth.

A Soper Mongel is a rich man if he possesses a thousand sheep and 10 γ 15 ponies; not many of them do.

Soper Mongola.

On 1st October we left the Bayan Gol with the 10 ponies, accompanied Burn 604. by four Mongols; two of whom carried guns and a third a very long spear.

These men are wonderfully quick, at loading and unloading, the ponies, some ponies, for better than the Argoons.

They too take care of these thick set ponies in their own way. None of the ponies are shod.

At eight time after marching they removed every thing from their backs at once and let them graze till morning time; unless they were near the Bana tribes. On these occasions, as soon as darkness came, they would the them to a rope picketted down, and at the first streak of daylight, would let them have an hours grazing before the start.

They used to water them just before starting on a march, but never during the march or immediately on return.

They were only ridden with snalles or merely headstalls, but were quite tractable and sure footed.

The baggage animals were led and not driven, a rope being fasteded to the lower part of each headstall; a man riding a pony in front having hold of the end of the rope. This answers very well except that the ponies can pick up no living on the way.

The ponies were short thick set, with big bone and coarse head and small cars, and fat from the good grazing.

Although the Mongols know we had not sufficient moncy to pay them for ^{Staing}. the journey they made no hesitation about trusting us until we met some of our own countryment at Sining.

On the road the Mongole for the most parts were either praying aloud or singing.

They would not allow us to go far from them, in fact if we did, they said they would turn back, for they said the Bana men often lie hidden behind rocks and suddenly attack.

They were most persistent that we should carry our rifles ready.

On 5th October camp (133), we entered a marcow gorge. In this is a reviewer stream stream but the Mongols neither let themselves or their ponies drink it, for they say it means certain death.

We found it tasted slightly of soda.

At the camping ground were some bears feeding on the fruit bushes, they quickly made for the hills on our approach.

On 6th October in the Noring Hol valley we saw two most deserted look. Copy Maggel for ing Sopor villages on the north side of a small salt lake.

It appears that after the Mahomadans had been defeated in the late rehellion, some of them had field by this way, and as they flee, their custom is to look all that comes in their way. They hesitate at nothing to get their food. The consequence is, that the inhabitants of the rillages which lay on their way escape with all they can before their arrival.

To-day several creats of the hills were pine clad. Encampments are made at the foot of some of these hills for making wooden articles from the trees.

On 7th October we came to the remains of an old encampment,

Chinese soldiers.

Here we learnt that a detachment of Chinese soldiers had encamped during their pursuit of the Mahomedans.

A little further on we came to Tuling Gompa, the dirtiest village imaginable inhabited by Sopor Mongols nearly all of whom were lame, blind, or disceased equalled only by the big black dogs.

Just beyond here on the other banks of the stream were the black tents of the Bana tribes, mostly octagonal with a hole on top to let out the amoke.

Grazing around were immense numbers of sheep as well as ponies, cattle and vak.

These tents were situated at the mouth of and some distance up a broad grassy valley.

From Tuling Gompa are two roads to Tankar the shorter one leads up the valley already mentioned and is used mostly for collecting salt in those districts.

The longer one branches off to the left and is a better road.

We took the latter road and on 8th October came to a large conspicuous rock standing out alone in a grassy valley. Inside the rock was a cave 30 feet high and of same diameter. At the entrance was a small courtward, 12 yards long by 8; the walls were 12 feet high, built from big blocks of white stone, some 2 yards long and a foot broad and deep.

On many of these stones were Chinese inscriptions and in a crevice we found a Chinese coin.

Inside the yard a rope was hung and attached to this were many hairs from horses tails and sheeps shoulder bones with inscriptions on them.

It is said this place was never built by man but was the work of God.

The Mongols with us used to give false alarms at night and fire off their matchlocks to accustom their ponies to the noise, during the day time they would practice and shot fairly well at a target 120 yards off.

It was a slow process loading each time with powder and an irregular shaped piece of lead, then ramming this down with a wooden rod, putting the powder on the touch hole, lighting the fuse, resting the guns on a wooden prong which they raised for sighting and finally applying the fuse.

On 10th October we reached Koko Nor (Lake). All throughout this district was splendid pasturcland watered by several streams running into the Lake.

Along the northern shore we could see in all directions the black tents of the Bana tribes. Each day we overtook many hundreds of yak laden with salt and wool being driven to Tankar.

The Bana people were living as close as 16 miles from Tankar.

The Tankarites send their own flocks almost as far as this and call it the grass country.

Ten miles from Tankar is a compact little village on the right bank of the river. Here grew some poplar trees, and every inch of ground was cultivated right up to the village walls as well as on hill sides and slopes where it looked impossible for crops to grow.

The villagers in their blue garments were busy in the fields, for most of the crops had been cut and were being gathered in.

Four miles further on also on the right bank was a snug little monastery called Gompa Soba nestling amongst the trees.

A small wooden bridge crossed the river at this spot. The river is called the "Siho" (west river)or "Taho" (big river) or "Chuchok" by Mongols.

From here we passed through cultivation and several small straggling villages to Tankar.

The principal crops that grew around Tankar were wheat, barley, onts, millet, peas and a little linseed and opium. This year had produced a splendid harvest.

Bemarkable cave.

Bans triber.

Mongols shooting.

Koko Non.

Salt and sum

GOMPA SOBA MOUNTARY.

Village.

TANKAR CORP.

On 15th October we entered Tankar by the western gate; the main street was crowded with Chinese some Mongols and a few Tibetans.

In our endeavour to change a rupee for some Chinese cash we found that a rupee which had the Queens crown on was of no use, while one without it produced a fair exchange.

Tankar appears to lie in a kind of hollow, commanded from all quarters Taswashi's Comby hills and rising ground.

The chief hills are Ho La or Ta Sand lying north west and Toai-Ta or Wupu, lying south east.

From the summit of this hill the town of SINING 30 miles off can be scen.

A tree is planted as a land mark to travellers.

The chief importance in Tankar consists in its being the most westerly town of Kansu situated on the Chinese border, and commanding the roads to to Koko Nor and Lhasa. The merchandise that is imported is carried further to Lancheo, Pekin, etc. At Taukar very little buying and selling goes on. The wool, for instance, is all forwarded by a Chinese agent direct to Pekin by camel or raft.

Living in Tankar are some 10,000 inhabitants. At the Yamen, the Chinese Civility. "Ting" or Major treated us with every mark of respect, attention, and civility and was undoubtedly glad to see us and help us.

This spoke well not only for the influence of our passport but also for the friendship the single Danish missionary had gained whilst living with theso people for a few months, gained only by using his tact.

We also visited the four Officials from Lhasa men of no small import. Loan Officials ance. The Chief Official was named Sherchie Chaba and the fourth Lusam Kinduni. They were posted here to see that justice was done to all Tibetans who passed through the place. They were very friendly with us presenting us with a gold cap under a scarf of blessing.

Lusam Kinduni had a good rifle of German make which he had bought for side of German taels £ 3, from one of the soldiers. Many rifles were got rid of in mate 18 this manner showing what little discipline can exist in the Chinese Army.

On account of the recent Mahomedan rebellion a number of soldiers Mahomedae Behad been kept at Tankar and had only just lately been disbanded. on. Tenker

On the walls of the town heaps of stones had been collected for its defence, and small towers had been built for the soldiers to watch from.

Chinese Colonel. The Colonel named "Yang " nevertheless retained his appointment, his title being ' Chuman " and his official title at Pekin " Hsiehtai.

He too was kindness itself, sending us presents of sheep, grain and fodder for our animals.

He was most inquisitive as to the revenue of India and the numbers and pay of our soldiers, etc.

From Tankar we went to Kumbum and Lusar adjoining each other, the Rambam Monaformer being on Tibetan soil and the latter in China. Along the road were terr. cave dwellers.

We overtook strings of camels with pulo, incense, etc., from the Talai Lama very tribute to the Emperor, the yearly tribute.

We saw many towers which had been built for the soldiers during the late Towers bailt for Mahomedan rebellion, and several deserted villages in ruins.

Leoportance of Tankar.

Daddis Mins Folys Kambum,

At Kumbum the home of nearly 4,000 Lamas, we lived in the monastery of the living Buddha Mina Fuiya. Here too the results of the rebellion had been sorely felt. At one time there was disputes as to whether they themselves should eo forth and fight.

Minn Fuiya had been to Pekin and spoke strongly of the houesty of foreigners in all transactions.

sining, sont of Mabunchase Rebeillion. Lund dotted with villages and ruins of others.

At this time of the year the road was fair for country carts, at others it must be very heavy.

We entered Sining which had been the centre of the late Mahomedan rehelion by the west gate. On the walls close by, wooden cages had been hung, in which were the chopped off heads of several leading Mahomedan rehels.

Sining which is a "Fu" is an important town, its populations being twice the size of that of Tankar.

From here, roads run in all directions, Sining is famous for its oil, made from mustard seed.

A general (Chent'i) is quartered here, but the number of soldiers must be very small.

Sining like most Chinese towns, hus its 4 gates, north, south, cast and west, though the eastern gate was peculiar to the place, for it was let down through a nitch from abore, useful for stopping a rush.

The walls of stone and mud were some three yards broad and over two miles round.

Defence of Sining.

Sea tTankar, large hengs of stones had been collected for defending the place, though it is probable that had the Mahomedans come close enough to the walls for stones to be thrown at them, the Chinese would not have had the pluck to defend them. During the rebellion each man who mounted the walls, had to take up one stone.

Inside the walls, the Chinese had dug a deep trench to counteract the under mining which they imagined the Mahomedans were doing.

Pekin.

During the rebellion, before the arrival of the soldiers from Pekin, there were always 2,000 people as well as the soldiers on watch on the wall.

From the top of the walls we looked down upon the "Tung Kuan" or eastern suburb, which had been before the rebellion, the home of 10,000 Malounedams, but now a sad scene of desolation and ruin.

Edition is Saines.] At this time, there were many disbanded soldiers in the town, who having received their pay brought a certain amount of money into the place and in some slight degree compensated for the loss of trade caused by the Mahamedan devastations.

We saw some hundreds of foot soldiers marching through the streets Chinese soldiers. armed with magazine rifles and many big coloured banners, but it was merely a rabble, in no order whatever.

> The same applied to the cavalry who were mounted on small ponies with running gait with snalles only, and rifles slung across their back. These men appeared to have more confidence in their banners, of which they had at least one to every three men, than in their excellent fire arms. From all accounts the belief in the power of these banners to terrify their enemies is deeply rooted in the minds of every Chinaman. They had just been escorting the General from the city, so were in their best war point.

During our visit to Sining and the neighbourhood, we not only were told of but saw the results of this Mahomedan outbreak and the following Incis Mahomedan Reterior were impressed upon our minds, that, although there have been two previous of far it. rebellions during the present century, the second of which came to an end only 20 years ago, yet there were absolutely no adequate means at hand for coping with the insurgents.

The "Salar " Mahomedans who dwell in the province of Kansu must have been, and were known to the officials to be a most restless and fanatical sect, and their religious enthusiam was bound to affect their less turbulent but more numerous co-religionists throughout the district.

Everywhere in Kansu, the Mahomedans are by far the most enterprising people, they have far more energy and business talents, than the genuine Mahometann Chinese, so that, although they formed hefore the rebellion only about one quarter of the inhabitants yet a far greater proportion of its wealth was in their hands.

One would naturally imagine that the Chinese Government knowing these facts, and warned by their previous experience, would have kept a Incriness of the considerable force in the town of Sining, the centre of the disturbed district, chinese Government, and the most distant from the coast, as well as a large garrison in Lancheo, the capital of Kansu, lying 450 li (150 miles) cast of Sining.

Instead of this, when the rebellion broke out, the Chinese were powerless : with the results that Sining was absolutely cut off from communication with the outer world, except on the western or Tibetan side for over two mouths.

The result of this was, that the rebellion grew so rapidly and to such an extent that, before soldiers, who had to march all the way from the seat of the Japanese war, perhaps as much as 2,000 miles, could arrive, the Mahomedans had slain close on 40,000 Chinese in Sining and the district and nothing and had a main close of 30,000 cintered in simily find the useries and inclusion y but the reality splendid behaviour of the Chiof Milliary Official (Chenty) me unsupported by trained troops, prevented the town falling into the hands the the rebels, in which case the insurrection would have spread even further Mahomedan Rebel than it did, and Lancheo, itself would have been in great danger.

At length, on the conclusion of the Japanese war the Chinese Government were able to send troops to quell the rebellion, and after weeks of anxiety Sining was relieved.

By this time the trouble had grown to such an extent, that the Russians Bussians begin to move troops. in Turkestan had begun to move troops in anticipation of the Mahomedans in Chinese Turkistan following the example of their co-religionists in the east. The result of this would have been extremely serious.

From the reports we received from the missionaries who were in the town during the whole of the rebellion, doctoring the wounded, the fighting between the soldiers and the rebels was very severe.

The Mahomedans were by far the braver individually, and also far better shots than the Chinese, proved by the numbers of Chinamen who were hit in Mahamedaas bare the head, when manning the town walls, but the superior arms, increasing that the Chinese numbers, and the small amount of discipline possessed by the latter led as they were by one or two men of considerable ability were bound to tell. When once they got the upper hand, the Chinese began to take terrible vengeance on the rebels.

When we passed through the eastern suburb in October not a single soul was living, nor a single house inhabitable.

These same violent and vindictive measures were taken in the surrounding districts.

As many of the ringleaders as could be caught were brought into the right of Mahomatown and beheaded, while the remainder fled towards Turke-tan and were dama pursued by a Chinese force as far as the borders of the Tsaidam.

In all prohability they succumbed to starvation as no news of their arrival in Turkestan had reached Pekin by the beginning of December 1996.

At the present moment the only Mahomedana remaining in the Sining district are old men, women and childern, but in Sining itself not even these are left.

Bamours of Mahamatana,

Rebellion.

In spile of rumours to the contrary which reached the coast, this rebellion did not extend further cast than a small town called Ho Tsui Tsi 140 li (nearly 50 miles) east of Lancheo.

The reports that, that town had fallen into the hands of the rebels, as well as Sining, were absolutely false and appear to have been started by the officials with a view to increasing their own importance.

.e The effects of the rebellion on this district has been very severe, for some time trade was absolutely at a standstill and the agricultural classes were unable to attend to their business.

The result of this is, that everything is very dear at the present time, flour the chief staple of food in Kansu was selling at more than double the ordinary price and in all probability it will be two or three years before things return to their normal state.

Perlups, however, what best showed us how severe the trouble must have been was the large number of ruined villages we passed through, first of all on our way from Tankar to Kumbum and then from Kumbum by Siming to Lanchee. East of Sining as far 110 Tsui Tst, every small village was utterly wrecked, many were absolutely descred, while in some, the inhabitants were just beginning to reture and to rebuild others.

The robels spared nothing and what the Chinese felt for worse than the destruction of their houses, was the complete ruination of their temples, many of which were razed to the ground.

West of Sining the destruction does not seem to have been quite so wholesale. The inhabitants appear to have shown a certain amount of resistnace. Every village built watch towers and fighting lowers for defence, but even here it will be many years before the country resumes its former appearance.

Incrementation of Chiese Liese Liese the strange lack of foresight which chacterises the General Chiese Government repeated. Every soldier is being removed now that the danger is over and it is extremely unlikely that they will be replaced, meanwhile as new generation will grow up, the Mahomedans will again increase in numbers Mealt of remote and their energy will gain for them wealth and power. The natural result of this will be a Irosh outbreak.

It is possible that with German advisers now in the country, some policy Grean within a of defence against cucmies from without and insurgents within may be instituted.

> But with the Chinese army constituted as it is at the present time, it will be extremely difficult to make such a policy general. At the present moment there are many armics in China, coed General having his own soldiers. For instance, the Emperor and Li Hung Chang each have an army of their own; neither of these were encaged in quelling the rebellion, as that duty was entrusted to a General Wey whose soldiers came from the central provinces of China, and to the Kansu soldiers who fought under their own leader. As long as this state of affairs exists no general system can be established, and the country will always be in danger of disturbances such as the last, which cannot be suppressed without a terrible amount of bloodshed.

On 20th October we left Sining.

Scong to Lawen. At some of the villages we could buy mutton, bread of various kinds, os. polatoes and pears.

Cotter.

Constitution of Chiuste Army.

In some places we found cotton growing in fields covered with big round stones which they plough.

Rebellion.

On 24th October we entered Lancheo (Fu.) the capital of Kansu. The crowded strests presented a husy scene and struck one as a city of no small importance, most things can be bought here, but conspi-cuous were the vegetables, meat, bread, fruits and furs besides a number of Russian articles.

Lancheo too, is famous for the vast amount of tobacco grown and Busins goods manufactured here.

There are but small suburbs and the town itself is surrounded by a fine wall in good repair, strengthened by a certain number of cannon.

The immense floating population varied with the seasons, and we were told it reached sometimes as many as 600,000 yet we heard it estimated as Lanches low as 100.000.

The great importance of Lancheo lays in that it commands the high roads to Pekin, Shanghai, Turkestan, Lhasa and Mongolia besides its traffic on the Yellow river.

Lancheo too, is connected with the outer world by telegraph lines, the Importance telegraph office is a fine stone building and wires could be sent to Shanghai and Laure this year 1597 to Pckin.

The "Futai" or Governor was fond of foreigners and glad to see them and help them.

The strength of the Garrison we could not ascertain; certainly we heard German instrucbugles going, and were told that they were learning the German drill taught tion. by their own countrymen who had themselves been taught by the Germans on the coast.

The carrison could not have been a strong one.

A year or so hack the Russians had set up some shops in Lancheo, openly Bassian shops as merchants, but in reality, for more useful and secret purposes,

They took but little care as to what goods they sold or as to how much profit they gained.

It is quite certain the Russians have surveyed every inch of ground in these districts and know well of the commercial and strategical importance of Lancheo.

This they have discovered under the pretence of attempting to trade, and Busines a Lan-knowing all this, what object have they to maintain their shops any longer; chee. hut rather to keep their knowledge to themselves and throw off suspicion by abiding their opportunity in silence ?

It is well known that the Russians, though maintaining their usual posts elsewhere, are even daily increasing those in east Manchuria and with this must come a consequent greater absorption of land.

The railway from Kirin the capital of Manchuria to New-Chwang and Port-Arthur cannot fail to bring all the trade thoy want into Northern China to the exclusion of British merchandise by way of Hankow.

With their thorough knowledge of Northern China, it does not seem impossible to foretell its future, taking too into consideration the Chinese administration already mentioned in this part of the country.

In one portion of this report it was mentioned how one man alone was required for the transit of 12,000 lbs of goods from China to Lhasa, i. e., 60 yak Transport at Lham. each carrying 200 lbs.

The numbers of yak in the Koko Nor district might truly be called countless.

The journey too from the Tsaidam to Lhasa could be easily accomplished in three months.

It must be remembered too that these yak require no grain to be carried for them.

Presuming the Russians had established depôts in Northern China and the Tsaidan; i from these statistics it will be seen shart with a stock of 6,000 yak, a caravan of 500 yak could march every fortnight to Lhasa all the year round, and bring to Lhasa every six months over 500 tons weight of goods. To accomplish this only 100 yak men would be required. Of course, this number of rak could be increased to three or four times the size.

A depôt further south than one in the Tsaidam could be formed and would be, at the southern side of the Burhan-Bota range of mountains, in the green valleys on the banks of the Bhugatza, and still further south than this in some of the pasture lands that border the Chumar river.

As to the possibility of forming depôts further south still, we are not in a position to state nor what supplies could be obtained from the Tibetans who induit the country north of Lhasa.

During the greater part of the year the climate. we are told would be favourable.

Remain faces as It does not seem altogether impracticable to take a force through east Lines. Tibet as far as Lines and when there to maintain it.

We left Lancheo on 25th October.

The journey by cart to Chungwei on the Yellow river takes eight days, most of the way a fair country road.

In these districts we found coal mines and soda, the latter is dug out and burnt all day and night in big fires of weeds to cleanse it.

Chungwei is probably larger than Sining, is certainly much cleaner and has a very fine city wall.

There is no northern gate, but its place is taken by a Taoist temple.

At Chungwei the people showed more inquisitive interest than at any Ummfetor freign. Other place we had come to.

To walk through the streets in foreign clothes was not altogather safe, not by any means for our Mahomedan servants.

At the Yamen too, we received but scant civility, our passport being of little avail, a most anti-foreign feeling prevails here.

A great deal of Mongol wool is brought in on camels and thence transported by boat down the Yellow river to Paot'eo.

As we floated down this river our boat was stopped at the exit of a gorge and boarded by some custom house officials.

They discovered some baskets of pears on board belonging to the boatmen and were for detaining us 24 bours.

We at length, however, persuaded them they were our own, whereupon they had to let us go.

Custom house officials have no power to detain foreigners.

The river in places is being enten away daily by the currents and is in consequence two miles broad in some places.

Sometimes we found the banks had been revetted by thick matting, but users the inter only where Mahomedans were living, showing as usual their superior enterme price.

WooL

A small though somewhat important place between Chungwei and Paot'eo is Shihtsuitsa, standing back half a mile from the left bank of the river. A quantity of wool is brought in here and forwarded by a Chinese agent to Tientsin; the wool is not so good as that brought into Tankar, the price paid being 4 cents for a pound.

Coal-Sola.

Changwei.

The village was mostly composed of blacksmith's shops, a proof that iron must be predominant in the neighbourhood.

A little further down the river saltpetre is got and sent into Paot'co. Saluetee All the hoats this time of year are in a great hurry for fear of being frozen in at Paot'eo

Boats cannot go much beyond Paot'co by reason of some waterfalls.

On 13th November we reached the landing place of Paot'co an active scene with the unloading of many wool boats.

The town stood nearly three miles off, surrounded by a wall far too large for the place, for there was a large tract of waste land inside.

The place is called " Pu " (fort), but it is impossible to say why.

The town was filled with soldiers returning from the scene of the Chinesestiers Mahomedan rebellion and it was difficult to find room.

From Paol'eo to Pekin is fourteen days, the most important place we came to before Kuci-Hua-chang was Taritsi with the usual temple at one of the gates and theatre built just opposite.

The shops were filled with iron, silk and pewter goods which latter is obtained in the neighbourhood, Russian goods were also sold here. Kuei-Iluachang is a large town with something like 100, 00 inhabitants with very dirty approaches and no city walls. At the east end is a Tibetan temple called Wutai, and some two miles north east is the Manchuarian town of Suchen with Bausian goods. fine trees and lofty towers.

From here to Pekin is 11 days partly through fine grass Mongolian land.

At Heingping Ho, we crossed the great wall with an old fort built of small Great Wall. red bricks in a state of dilapidation; the wall in places was only a foot thick and completely broken through in others.

Shuenhua Fu is an important town erroneously called a "Fu" for it is a Shuenhua Buen, Hsien, surrounded by a magnificient wall with immense amount of sand heaped up against the west side. All the approaches were deep in mud.

They say that the wall is 6 li long and broad, but it is not more than three.

Grapes are grown south of this town.

In the vicinity are many old grave yards and tall stones with inscriptions of the rounded characters.

Like all towns in northern China flour in its multifarious sort and state Flour and not rice was the staple food of the Chinamen, and we were never able to buy any rice.

Outside the town we met great numbers of mules laden with boxes Russian oil. containing oil, for in large letters, there was written on them " Batoum " " Russia."

Many other mules too were carrying silver, ornamented with red flag and escorted by a few men on foot with spears.

Although this was the Imperial road to the capital it is hardly possible Imperial Brad to credit the bad state it is kept in, especially over any hilly country.

At Sacheng two days from Pekin, we met 2 Russians travelling in the Busins travellers opposite direction, they had a certain amount of baggage, were very reserved and unwilling to show us anything but a loaded revolver.

Afterwards we met 5 other Russians on the road; that is to say we Bootto Patio met 7 Russians in 2 days, but how many daily go this way and whither they go, it is hard to say.

We passed over the Nanko pass and the road from there was fairly good for country carts, passing by many old walls, stones, gates, towers and temples, in one of which insoribed on the wall we found "Walker 1863" and "Allen Basis asses. 1879 " as well as several Russian names.

found in Northern Ching.

Iren.

Past No.

Pewter.

As we approached Pckin, we met immense numbers of camels laden chiefy with (ca, oi) and matches for the Mongol markets. In one hour we councied 705.

We were travelling about 3 miles an hour.

Supposing camels travel 10 hours out of the 24 and at the same rate nearly 4,000 would travel daily from Pekin.

From Pekin to Tientsin is a good 80 miles, with a metalled road for the last 3 only.

The railway between these two towns should be completed before the end of this year, although they say it should be ready this spring.

The railway from Tientsin to Taku, a journey of about two bours, appears to be badly managed, for all is perfect hubbub and a rush.

The railway has been opened 11 years and is paying 151 per cent.

At the station was a well dressed Chinaman of no small importance he was much entraged at the general confusion and made the very significant remark—" Why don't they let foreigners manage the railway "?

REPORT ON THE CLIMATE.

May.

During the month of May from 4th to 31st from Leh to camp (16)-

The average temperature at 7 P.M. was	 	30° Fahrenheit.
The highest temperature being on 4th May	 	45° "
The lowest temperature being on 14th and 26th	 	80° "

There were 14 fine days; 13 cloudy days; five days with anow or sleet. A north wind was prevailing during the first half of the month; a west or southwest wind during the second half.

June

During the month of June from camp (16) to camp (42)-

The average t	emperature	for the firs	L half of the	e month		
at 7 P.M.	was				30°	Fahrenheit.
The highest t	emperature	being on 1	ith June		55°	
Lowest	- ,,		7th June		28°	
The average	temperatur	e for the	second half	of the		
mouth at	. П.а.я. т	vos			60°	.,
The highest t	emperature	being on 2	Ird June		65°	"
Lowest	ю	, 25	h June		55"	
The average a	mount of l	rost during	the night s	was	140	of frost.
The coldest ni	ight being	16th June			25°	
The warmest	night bein	g 24th June			2°	

On 21st June maximum thermometer went up 110° in the sun and there were 11° frost at night.

On 22nd June maximum thermometer showed 78° in tent. There were 26 fine days. Snow fell on four days in the first week. There was no prevailing wind-variable throughout. On some days there was no wind at all. On some days there was haze.

July.

During the month of July from camp (42) to camp (72)-

The average temperature was at 11			57°	Fahrenheit.
The highest temperature being on 2		th July	68°	
The lowest temperature being on 71			47°	
The average amount of frost during	the night 1	wa9	110	of front.
The coldest night being 10th July			26*	
The warmest night being 29th July			1°	
The average temperature the maxim	um therm	ometer		,,
ran to was			66°	
On 28th July the temperature was			78°	in a tent.

Pekin to Tientsin.

There were 21 fine days. There were 10 days stormy or cloudy. Snow sleet, or rain fell on 10 days or nights. Prevailing wind was north or northwest. The wind was generally still in the carly morning and rises about 9 o'clock. Sometimes dropped again during early part of the afternoon and nearly always blew hard again in the evening. It very often dropped again after dark.

August.

During the month of August from camp (72) to camp (102)-

The average temperature was at 7 r.m.	 50° Fahrenbeit.
The highest temperature being on 4th August	 56°
The lowest temperature being on 10th August	 39* ,,
The average amount of frost during the night was	 54° "
The coldest night being on 19th August	 14° of Frost.
The warmest night being on 25th August	 40° Fabrenheit.

There were 11 fine days, 16 days with rain or snow. The greater part of the rain or snow fell at night time. There were two cloudy days. The wind was variable. During the latter part of the month there were sorcal severe storms and many others north and south of us. These storms generally came in the afternoon or evening from the west.

September

During the month of September from camp (102) to camp (127)-

The average temperature for the first 20 days at 7 p.M	WQ8	41° Fabrenbeit.
The highest being on 16th September	•••	50° "
The lowest being on 11th September		30°,
The average amount of frest during the night was		12° of frost.
The coldest night being 11th September		25° ,,
The warmest night being 5th September		35° Fahrenheit.

There were 10 fine days, 10 days cloudy with snow or rain. Prevailing wind was north. During the last 10 days of the month the average temperature at 7 p.u. was 50⁵ Fahrenheit running up as high as 64⁵ on the 27th. The average maximum temperature was at night 32⁵ Fahrenheit. There were only two dops with a little rain. Remainder of days were fine; provailing wind was west.

October.

During the first half of the month of October from camp (127) to Tankar on the Chinese border.

The average temperature was at 7 p.s	 46°	Fahrenheit.
The highest temperature being on 3rd October	 52°	"
The lowest temperature being on 11th October	 3 0°	
The average amount of frost at night was	 10°	of frost.
The coldest night being 10th October	 27"	v
The warmest night being 13th October	 2°	"

There were 11 fine days; two cloudy days; two with snow. The prevailing wind was east, often chopping round to west in the evening. From Tankar to Pekin we met with a continuation of bright clear weather with frosty nights.

APPENDIX.

FROM LEU TO TANEAR.

Number		DISTANCES.			
of stage and date.	Names of stages.	later- wediate,	Total,	Banares.	
1. 4th May	LBII to Тіскяв	Đ	9	Followed Niver Indue.	
				Time, 4 hours.	
2. 5th May	Between Sugawos and Lickss.	28)	37	rung on other side of river.	
				Egu, 121 miles.	
				Upchi, 174 miles on other side.	
				Sherwos, 234 miles.	
				Followed Indus.	
				Time, 13 hours 35 minutes.	
3. 6th May	GTA	241	62	Licksie, 24 miles.	
		1		Hernia, 10 miles.	
		1		Cungian, 16 miles.	
		}		Followed Indus.	
				Time of march, 13 hours, 55 minutes	
4. 7th May	CHUMATANG, 2 miles	27	89	Kera, 7 miles on left bank.	
	beyond.			Yakiki, 8 miles.	
				Nee, 14 miles.	
				Keisir, 17 miles.	
				Village on left bank, 10 miles.	
				Chumatang, 25 miles.	
				Followed Indus.	
				Time, 13 hours, 10 minutes.	
		231	1121	Maie, 124 miles.	
5. 81b May	Noma	201		Followed Indus.	
				Time, 14 hours.	

FROM LEM TO TANEAR.

		DISTANCES.		
Number of sings and date.	Names of stages.	Inter- mediate.	Total.	Bawaber.
6. 91h May	DONLUNG	26	1384	Village of Mot after 2 miles.
				Champa encampment at " Raima."
				23 miles, grass and water.
				Followed Indus for 17 miles, then, turned off to left. Most of road heavy sandy and stony.
				Time, 13‡ hours.
7. 10th May	SEUSBAL	16	156	Cross an easy pass and follow a good road all the way through a valley. Pass good gressy spots with Chamba people living there.
		1.		Time, 9 hours.
1. 11th May	·			Halt at Shushal.
2. 12th May	Mus	. 25	181	Start with a good road, and after about a mile cross a small stream with good grazing land.
				The road rises after this for about 2 miles when the lake of Pangong came in sight. After 5 miles the road follows baak of the lake, some- what stoney and heavy going. Pass two small villages with fresh water streams and grazing land before reaching Mus.
	ļ			Time of march, 10 hours.
3. 13th May	LUDDENNO At end of lake, pla called Kaba, a road goes off the left to Lob.	nd	5 19	Foir read for baggage animals, but somewhat stony, latter three miles heavy, sandy going. Follows the beavd, sandy going. Follows the bank of the lake for about 12 miles bounded un on thr side by snow capped mountaiss. After sis miles is small village at "Pang- wick," and a mile further on it some grazing.
				Time of march 6 hours, 20 minutes.
4, 14th May	Сатр	\$	224 21	9 Fair road, turns round to the righ where there is good grazing, an after three miles crossed a stream then ascends an easy pass for t

Routs 1	No. 1	ί.
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FROM LEB TO TANKAR.

Number		DISTANCES.		
of stage and date,	Names of singes.	Inter- mediate.	Total.	Beuldts.
				miles more, at the foot of this is a hatting place, thence over a dry valley, and at the 34th mile follows a dry etony sullah and at the 15th mile turns up a stony nullah to the left, in view of Pangong Lake and opposite village of Mua (no water).
	POBANDU Pase		·	The name of the pass is Porandu and also the halting place below.
				Time of march, 11 hours.
5. 15th May	NIAG2U	. 21	240	Fair road ascends to top of pass Au 10,230 feet, for 0 miles, and then descends a very stony nullah for 12 miles, a bad road even for baggage animals; then turns up sharply to the left to water and grazing lands.
				Time of march, 10 hours.
	KALI SANG Nulle Suu Nullab.	b,		About 5 miles from Niegzu is the Kali Saug, where Shu nullsh rues north. About 3 miles before reach- ing corep nullsh rues south by east to Pal and Rudok.
5. 16th May .	NIAOZO]		Halt.
5. 17th May .	. NIAGZU			Hult.
6. 16th May .	NUBTSE	1	0 251	Fair road and rising ground all the time. A stream courses down in valley livrogh Niszer probubly not always running. After 9 miles as apot is reached with water and grazing called "Minpah Yungmah" and 4 miles further on a similar opt w Nitrah Couranh.
	Obgyvu Plain			Soon after this, read bends to right to open plain of Orgaum, where the Dorjor road from Noh and the Tokpakhrbo from Chang Chenna meet. The road bends to left down to Nortes about a mile, very good grazing and water.
				Time of march, 9 hours.

FROM LES TO TANKAR.

Number of stage and date.		Dist	76316 ,	
	Names of stages.	Inter- mediato.	Tole).	Bewarte.
7. 19th May	Kona Sumnanungbo		2744	Good road, after 1 mile bands to the right, and again at 5 miles, the valley winds to left and at 6 miles passes through "Pooksh," grazing spot, the road then ascende and turns to right, passing through bills at a spot called Sumannungho. The road winds and accende and passes an easy pass at 13 miles then a short descent and again rises and turns to the right to grazing land (no water) at foot of Kena passe.
8; 20th May	Late Tabo	. 25	2001	Time of march, 74 hours. Good read and after about a mile crosses over an easy pass, and after 3 miles another exister pass, thereos descende a long broad multa which at 134 miles code up in a gorge. Water and grass throughout the valley; from here the road crosses a waterfless plain, passing over 2 small spurr just before dropping down to Lake Treb, nearly 12 miles from the gorge. No fresh water, a little snow, lake drinkable for mules. Time of march, 114 hours.
, 21st May	TANJUN ,,	. 104	\$10	For some four miles, a fair road, skirts round Lake Treb, over some- what sandy soil, theac commences the ascent of Narpu La Jollowing. An exceptionally bad road when snow fails. An rary descent to a fina glucier, and down to a stony river bed with water, and good grazing on either bank. Time of march, 84 hours.
9. 22nd May 10. 28rd May		13	 323)	Halt. Fair road, somewhat stony, follows down a broad valley with mountains and gramy valleys on either side after six miles the valleys turn a little more east or to the right. Watered by event small streams on account of the melting mow.

ROUTE	

FROM LOR TO TANKAR.

Number of stage and date.	Names of stages,	Діятансия.		
		Inter- mediate.	Tدادا.	Banabus.
11. Չենհ Мոյ	Сапор Кезамвота- вок gullub.	13	336	Good road down nullah, then turns suarply to the left up nullah 34 miles with very poor grass, and water from sizeams.
				Time, 51 hours.
11. 25th May 🕳	Сатр Кявлывота- вок nullnh.		6361	Halt.
12. 26th May	Слыр	17	853)	Back again over same road, towards Narpu-La.
		ļ		Time, 8 hours, 20 minutes.
13. 27th May	Слар	17	370	Over the Narpa-Le, to the foot of it.
				Water in parts of nullah. Time, 104 hours.
14. 29th May	Labe Tars	15	865	Fair road along lake to its northern end, there is no grass and no fresh water before this, parts very stony and somewhat undulating.
				Time of march, 8 hours.
15. 2915 May	LANAR LA	. 11	\$ 397	Good going, uphill, fair grass in many places. Good water.
		1		Time, 6½ Lours.
30th May	LANAR LA			Halt. Good grass and water.
16. 31st May	Самр	. 13	414	Cressed an easy pass, thence followed a nullah with water in it, but fittle grass, opening on to a large open plain, firm and stony, this wi crossed in a north-cast direction Grass very scarce. Water als searce only in pools. Good going:
				Time, 9 hours, 20 minutes.
17. 1st June .	Camp by small free	մի 1	42	8 Good going down valley, poor gras
	l			Time, 7 hours.

FROM LESS TO TANKAR.

Number of slago aud data.	Nume of stages.	Дита всев.		
		Inter- mediate.	Tolal.	Вемлеке.
18. 2n4 June	Camp by large Salt lake.	10	438	Slow going, over frozen, fresh water small lake, and at four miles pass south of small lake, probably fresh water thence over undulating valleys with poor grass. Fresh water by lake.
	1			Time, 51 hours.
19. 3rd Jupe	Camp by Salt Lake	93	4174	Bad beavy going along border of lake there is better going higher up.
				Waler at starting, but no grass or water afterwards.
		1		Time, 7 hours.
20. 4th Juns	Camp on Pass	10	457	Bad going over cullabs along borders of lake thence turn to half laft over rising ground, and nullabs, be- tween two hils, over a pass, gradual ascent, heavy going. No water, and very little grass which is found only at top.
				Time, 8 hours.
21. 5th Juan	Camp by auliab	. 11	408	Good going down hill in a northerly direction, circling round small hill, theace turning a little to right, along a broad valley, afterwards ascending a very casy pass.
				The last four miles good going over open plains to nullah. Water along route and a little grass. Very small amount of green grass at camp but good water.
		1		Time, 5‡ hours.
21. 6th June	• •			Halt.
22. 7th June .	. Camp by stream ,	. 14	482	Fair going, followed bullah ascending over a high pass, thence followed course of nullah to foot of pass where thero is good grassead as good camp- ing ground. Then turn to right along a broad valley. Water and scanty grass.
	1	{	}	Time, 12 hours.
23. 8th June .	Camp in nullah .	. 1	1 484	Fair going up a nullah to little better, grass and water.
			l l	Time, 1 hour.

FROM LER TO TANKAR.

Number of slago and date.	Names of stages.	DISTANCES.		
		Jater - wedinte,	Totel.	D # 10 4 2 4 5 .
24. Dih June	Camp by Lake Lighten Frozen Freeh Water.	+}	48%)	Good going up the nullah to fair grass and water at border of the lake. Time, 24 hours.
25. 10th June	Camp by Small Lake	61	497	Goad going for six miles across frozen lake, thence heavy rising ground and descend to small fresh water lake. Grass and water, good camping ground.
I				Time, 41 hours.
96. llib June	Camp in Nullah by Lake.	9	506j	Good going for 54 miles by the banka of the lake, thence cross an arm of it rather over 3 miles, and up to nullab. Grass and water.
				Time, 5 hours.
\$7. 12th June	Camp by Salt Lake.	10	5164	Good going up the nullah, thence accending over an easy pass, and descending again to a small con- spicnous hill close by lake. Good camp. Grass good. Water scarce.
				Time, 5 hours.
28. 13th June	Camp by Salt Lake in Nullab.	9	625 j	Fair going, skirting round the lake. Grass fair, water very scarce, only little obtainable by digging
				Sign of old fire at camp.
29, 14th June	Camp in Nullah	124	538	Good going, leaving lake to the right. Pase over rising groond, thence leval going along a valley and over an easy pase, down to fresh water lake, pase along authers edge and at the ead turu up auliab half right, rather bayy going, grass pleatiful by lake.
				Time, 61 hours.
30. 15th June	Camp in dry River Bed.	71	545	Good going, but rising ground up uullah for 5 miles, thence gradoal descent. Water by digging. Fair grass.
				Time, 41 hours.
30. 16th June	Camp in dry River Bed.			Hait.

FROM LEH TO TANKAB.

		DISTA	8C88.	
Number of stage and date.	Names of stages.	Inter- mediate.	Total.	R114.854.
3].]7th Juns	Camp in dry Bed of Nullah.	30	555ļ	Good going across a flat open plain crossing three small fresh water streams, thence a gradual rise up nullab. Fair grass, Water by digging at camp.
				Time, 5 hours.
32. 16th June	Camp in email Grasey Nullah.	5	560)	Good going up nullah aver rising ground, dipping into a small grassy nullah with water running and cessily obtained at other places by digging.
				Time, 21 hours.
85. 1916 June	Camp by Fresh Wuter Lake,	7	5074	Riving ground for first 2 or 3 miles up a sullah over bard stoay rol- ling ground, theace descend a small winding stoay nullah, and detouch to large open plain of gravel and grass and excamp by hulf frozen fresh water lake. Good grazing.
				Time, 81 hours.
33. 20th June	Camp by Fiesh Water Lake.			Halt.
34. 21st June	Camp in broad dry Nullah Bed.	9	677	Good going for nearly two miles along the borders of the lake, there a very gradual ascont over a large open gravel plain, passing close by a small bill on the left at about 5 miles, a range of bills and snow peaks beyond, fying 6 or 8 miles on right or south band. Halt in a nullat wider water is gol for ponies by digging. Yair grass close at bacd.
			1	Time, 5 hours.
222d Jun o	. Camp in Bød of Nu lah.	1. 7	594	Rising ground for some 3 miles, thence enter a story bridded nul- lab acd follow this down a gradual descent, Water plentiful. Grass scarce on sides of nullab.
				Time, 34 hours.

PROM LER TO TANKAB.

Namber		Dieta	¥CE8.		
of stage avi date.	Names of sisgen.	Inter- mediate.	Total.	Remarks.	
35, 22nd June	Camp in same Nul- lah.	5	380	Good going down the pullels, whose bed is some 100 yards across, taking a genral direction porth and east. Water plentialbut to grame. Several email nullahs join this one during its course.	
36. 23rd Juno	Camp in Plain in Nullab.	7	598	Good going, following nullah for some 3 miles, which then de- bouches into a large open plain. A running stream all the way down the nullah, which at the plain is a fast flowing small river, some 10 yards across and bends away to the north, clear water with gravel bottom. At plain our right or south hand over fine gravel plains with next to no grass till our holting place is a nullah running north and aud where there is good grass and water by digging. Time, 3] hours.	
241b June	Camp in Plain in Shallow Nullah.	6	602	Good going over grassy plain in a north-cast direction to avoid ris- ing ground. Good young grass, and water in small quantities by digging. Water plantite further north. Time's 3 hours.	
87	Camp in Small Grass Nullab.	3	605 }	Fuir going over grassy plain and rising ground, steep the last mile and dipping into a senali hullal with good grass and water. Time, 1 hour, 50 minutes.	
25th June	Camp in Plain	41	610	Bad going for three miles over hilly ground and cut up by sullahs, thence over grassy plain, alluvial soil. Fair grass and water obtainable.	
5 8	Camp in Small Nul- lab.	5	615	Time, 24 hours. Fair going, scon crossing a dry gra- vel nullah, thence over some rising ground, and descand a valley heavy	

ROUTE	No.	t.

FROM LEIL TO TANKAR.

	1	DISTANCES.			
Number of stagy and date.	Names of stages.	Inter- wediate.	Total.	. Rumande.	
38, 28th June			615	going, with losse slabs of stone, to a small red core hill, these orising ground over grass and dip into a small deep sullab with good grass, water little saltish. Time, 24 hours. Halt,	
27th Jaco	Camp in Broad Dry Nullah.	6	621	Good going over graver plain and over a low range of bills, konstinese rabber heavy going, thusse gra- dual descent to large open glain, dual descent to large open glain broad dry shallow willabe running north to south willabe running north to south will a string of them, water a little still and of the string probaby pleatid in certain spot in mallab. Good grass around.	
		l	ĺ	Time, 2 hours, 50 minutes.	
89	Camp in Nullah on Low Pase.	5	626	Good going across grassy plain for about 21 miles, thence a gra- dual escent to low range of hills and camp in gravel nullsh, day soil below. Grass plentiful. Water by digging, scaroo and brackish. Time, 24 hoors.	
40, 2325 June	Camp in same Nel- lab, lower down.	3	629	Good going, gradual descent down same nullab. Fair grass, but water only by digging, salt and bitter, very bad. Time, 21 hours, delay through acci- dent to Sulloo. Halt remainder	
	ļ	1		of day.	
29th June	Camp in same Nol- lah.	6	635	By marching more north than wanted, good going over portion of sandy soil. Cressing sullah shallow and gravel, and over phan of Gas hard gravel, at five miles outling into original sullah good going to camp. No grass before fifth mile. Count- ry to southward, barren with sandy hills.	

ROUTE NO. 1.	ROUTE	No.	1.
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FROM LEH TO TAREAS.

Tamber		Diera	3C88.	
of stage and data.	Names of stages.	Inter. mediate.	Total.	Benadrø.
				Grass good at camp and water plenti- ful by digging, but brackish. Time, 34 hours.
41. 29(h Juao	Camp in Open Plain	6	662	Bising ground for a mile, theses good going, very gradual derorst over open gravy plain of clean hard graval soil. Water obtainable after 5 mile, at half mile south of some anail hitis. Good gravs at camp and watera little sallish by digging in ersail depression. Water plenti- ful a mile further on in oullah. Time, 34 hours.
304h June	Camp in Open Plain	5	647	Good going for a mile thence an ascent, rather mady, heavy going for 5 miles, crossing a small past between two hills, theore a very gradual descent over an open plain gravey alluvia looi, to healting place in open, where very little value was obtained by much digging To get a supply, necessary to dig some sin feet. Time, 3 hours.
42	Camp in Nullah by Small Hill	. 2	640	Good going over grassy plain to gra- vel soit nullah running round foo of the hills. Excellant rater one foot below surface
lst Jaly	Camp in Nullab	. 6	₹ 655	Good grass. Time, 1 hour. Gradual ascent for about four mile up broad gravel nullah, good fire going, these level going labog nul lab turning little to right to camp in same nullah. Waiter good by digging. Grass good. Time, 84 houre.

ROUTS NO. 1.

FROM LEI TO TANKAR.

		DISTANCES.			
Number of stage and date.	Names of stages.	Inter- mediate.	Total.	Врилися.	
13. let Jaly	Camp in Broad Nul- lab.	6	661	Ascent for about 3 miles up cullab, good firm going, thence descend down corrow stony sallab, emerg- ing into a broad gravel nullab. Grass fair. Water by digging. Time, 3 hours.	
2nd July	Camp ia sawe Nut- lah.	6	667	Gradual ascent the whole way up nullah. Land to right or south sandy and horren, with little grass, bounded to the north by range of hills, somewhat rocky, with hitle grass. Water little salish at comp, but only a foot below surface black clay soil below. Time, 3 hours.	
4 1	Camp in Plain by Small Hill.	4	671	Continued down nullah for about a mile, thence crossed a perfectly flat, caked, clayey, soil of about two mile and found small pool of water Thence steepish ascred up a smal- nullah to open gravel platin. Grass on hills close by north. No water near. Time, 2 hours, 20 minutes.	
3rd July	Camp by Big Nullal	4	676	Heavy going by reason of soow, durin night across uneven plain. At about two miles cross over ridge into an other plain, and follow up broad gravel nullab running down th contre. Grass fair, Water scarce it nullah alter digging.	
45	. Camp in Nullah	. 4	680	Time, 2 hours, 20 minutes. Rather heavy going, and up hill fo about three wiles, thence areas one low ridge, and after level going round foot of hills, hit off a grave multish running in from north direc tion. Good grass and good wate a foot below warface.	
4th July	Campin aame Nu lah.	-	687	Time, 2 hours, 20 minutes. Follow aullah turning a little t right by foot of hills, thence goo going and very gradual descen	

ROUTS	No.	1,
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FROM LER TO TANKAR.

	Number		Dista	NC28.	
	of stage and date.	Namos of stages.	Inter- mediato.	Tolei.	Redieve.
46	. 4th July	Camp in same Nul- leb.	ΰġ	693	down grassy plain, bounded on both nides by mage of bills. Good grass. Water by digging. Time, 34 bours. Good going down nullab very grad- ual descent, many other nullab running into this one from north and south, from the range of hills two or three miles on either side. Excellent grass in valley and good water anywhere in oullab below surface 2 or 3 lest. Time, 2 hours, 45 minutes.
47	. 5th July	Camp in same Nul- lah.	61	6954	Good going down same nullah as the day before, passing several email hills or mounds of dun coloured sand- stone. Good water. Grass fair.
					Time, 2 hours, 45 minutes.
47.	6th Jaly	Camp in same Nul- lab.		698 <u>i</u>	Halt.
48	. 7th July	Camp ia Big Nullab	10	708)	Continued to follow mullah the whole march, and after scome six miles found running water in it. Adout this distance too there are three sul- lahs, all appendix running isto a lake. The going in nullah is some- times haavy, perhaps owing to re- ceat noow. Urass at places. Nullah sometimes half a mile wide, at others 100 yards or so. Time, 4 hours, 40 minutes.
6tl	ո 3ակց է ․․․․՝	Camp by Salt Lake	76	716	Continued down nullab for about four miles, wh-a the going gets very heavy, just before the sullah br- comer full of water. Followed nullah down left back up to Salt Lake. No grass. No fresh water, and no tost. Country all around lake absolutely barces. Time, 4 hours, 10 minutes.

FROM LER TO TANEAR.

		DISTANCES.			
Number of stage and date.	Names of stages.	Inter- mediste.	Total.	BEXTON	
49. 8(b July	Camp in Nuilah by Salt Lake.	4	720	Marchad along the borders of the lake sometimes rather heavy going. No vogelation anywhere, excepting "Bontas" in spaces. Convert soil and bare hille, halted in a smail nul- lah, running down from hills where we towat good water by digging, and boorts. Water in lake very brackish, to much so for animals. Time, 2 hours, 5 minutes.	
Ուծ մայց	Comp beyond Salt Lake.	6	728	Same going as before along border, of the suit lake for nearly five miles; thance overs barren plain, halting by small nullah ranning down from the range of low lare hills to north. No waster, Boort- sa only for animals.	
o	Camp in Sals Count- 13.	6	732	Time, 3 hours, 10 minutes. Marched along open barren plain burren on account of the vasi amount of sale in the land for 9 or 3 miles, therac over rising ground, sometimes heavy going, for there was a loose crust of soil or the surface. Camped in a small nullah running down from the bills to the aorthu- where we got good water by dig- ging, sud little boortss for the an- male.	
idib July .	. Camp in Salt Count 17.	7	739	Time, 3 hours, 10 minutes. Rising ground, heavy going for some two miles, thence dip into a partial y driot up sait hake, very heavy going, through much deposit of saite. Continued afterwards by edge of sait mulhab, thence afts six miles struck more northward over rising ground, and and grave to a very small anihah from the northern bills. Good water by dig ging, and little boortas. Country most barren and desolate. Time, 3 houre, 45 minutes.	

Rours	No.	1.
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FROM LEW TO TAREAR.

Number		Diet	ARCES.	1
stage and date.	Names of stages.	Inter. mediate	Total.	BUWARRS.
51, 10th July	Camp in Green Grassy Nullah.	5	744	Continued down the hill, thence along the edge of another dried up sails lake, into a nullah up hill which we followed on to a large sandy nullah running north-asst and south-west. Good grass in nullah. Good water just below the surface.
52. 1116 July	Camp in Broad Nul- lab.	71	751	Time, 2 hours, 45 minutes. Up a winding nullab, steepish going, then decend to a small sait take and over undusting country with good grave, into a sullab running north-west and nouth-east. Good water below surface. Good grass. Time, 4 hours,
18th July	Camp in Open Plain	0	757	Over undulating rising ground, thence followed small sandy zullah, wind- ing between bills, and again over greasy undulating ground to small depression, where only a little brackish water was obtained by Jig- ring. Good grass. Boortas plenti- ful.
53	Camp in Open Plain	7 1	785	Time, 3 hours, 10 minutes. Undulating grassy ground, at times heavy going, at others following smdy nullah circling round hills. Water by digging, but scurce and saltish.
13th July	Camp by two Smell Lukes.	5	770	Time, 3 hours, 40 minutes. Undulating grassy ground, but more level, crussing broad gravel nullah, thence dip down into a depression close to rage of now fills to the north to two small fresh water lakes. Grass and bootse plentiful. Time, 2 hours, 35 minutes.
54	Camp by Stream	8	778	Rising ground up a pullah for abuot three miles, thence some two miles over uneven burren ground, afterwards a gradual descont to nullai in which as a stream of good water. Grass along edge of sullah. Nime, 4 hours.

Rours No. 1.

FROM LEII TO TANKAB.

Number		DISTA	тсва.		
of stage and date.	Numes of stages.	Inter- mediate.	Total,	ßymany.	
14th July	Camp in Nullah	7	7B5	Good going, gradual descent over open plain, thence eross several small nullake running north and south aud after about five miles enter broad gravel nullak running south-east. Good water by digging. Good grass pleatiful. Time, 4 hours.	
55	Camp by Lake	5	790	Followed nullah for about a mile, then turned half left over undulat- ing grassy hand, past small bill of sandslove, balting nearly a mila east of a fresh water lake. Good grass and water. Time, 3 hours, 20 minutes.	
15tb July	Camp by Lake	6	706	Up a nullah for nearly two miles thence over fino undulating grassy country, crossing some bread grave nullahs. Halted close by small fresh water lake, Good grass and beforts around. Time, 3 hours, 20 minutes.	
56	Camp in Nullah	71	803	Time, 5 nours, 50 minutes. Over undukting good guasse contry crowing sevend multabe running the sevend multabe running west with range of bills boyond west with range of bills boyond or range of bill also to nouth. Halt ed in nullab with good water grass.	
57. 16th July	Camp by Fresh Wale Lake.	r 8	811	Time, 4 hours. Continued over same kind of country as previous day, the whole time a very gradual dissect. Halted close to lake whose water was very slightly saltish. Good grass around.	
58. 17 ւհ Jա յ "	Camp by Large Lak	e 81	620	Time, + hours, 5 minutes. Continued over same kind of country as the two previous days, heavy going on account of fall of snow	

ROUTH	No.	1.

FROM LEN TO TANKAR.

Number		Names of stagm.	Діята все я.		
of stage and data.			Inter- incliste.	Total.	B1910TC
53, 18th July		Camp in Big Nullah on High Ground.	Bà	928 F	thene over rising and dipping grannil, these baies no defined fea- tures in this large walky between the two ranges of hills, outlass and smaller hills, nunning in every direc- tion. Last two miles gradual rising ground, at the summit of which was a broad nullah nearly half a mile acress. Good water by dig- ging and good grass.
19th July		Camp in Open Plai	n 7	850	Heavy going tokay by reason of au- other fall of suow. Time, 4 bours, 16 minutes. Good going up a trong gravel nullah for 2 miles, thence over rising ground with another authin running est. Good grass sverywhere and water in authin ists behave sarfase.
8 0.		Camp in Nullah .		843	Time, 3 hours, 25 minutes. Fair going for 5 miles over undefined ground, sometimes and viabiling gross, and crossing small nullahe running in different directions, thence a gradual ascent up a firm gravi- nullah 80 parks broad. God grave and water below surface.
20(h Ĵuly		Camp in Mai Nullah.	in 7	851	Time, 3 hours, 35 minutes. Good going winding up nullsh for about 4 miles, thence cross over a grassy coll, and drop drop into an other important nullsh gradually widening to about 100 yana boton firm going, with water lists boton agreed and the grassy miles alfact, how grassy multer nullsh into any site this main one which running into this main one which

18

Routs No. 1.

FROM LES TO TANEAR.

		Dista	3 CB3.	
Number of stage and date.	Names of singes.	Inter- mediate.	Total.	Bix1918.
 81. 2016 July	Camp in Main Nullah.	7	65 6	ran nearly due east, with a very gradual descent. Time, 3 hours, 25 minutes. Followed nullah, good going, slight descent. Good gross on either side, and water just below surface. Other- big nullais running into it. Time, 3 hours, 5 minutes.
List July	Comp by Open Plain	6	588	Followed builts for between threes and four miles which then bent round outliverate, passed over undulating gravy hach halting its aother nullah running uorth and south. Hills on either side of valley econe 4 miles across. Big enow range bying south-west perlaps 60 miles off. Good water below surface. Time, 3 hours, 40 minutes.
62	Camp by Open Plain	61	872	Continued over open grassy plain, the whole march, crossing several small nulhah, and a very gradual descent, leaving main nulha to cur south. Hills rouring parallel on either side. Halted in small nullah, in all of which is water below surface. Time, 3 hours, 15 minutes.
22nd July	. Camp in Nullab o rising ground.	n Bł	981	Continued for two miles over grassy plain, and then begun to cross the bed of a sait lake, very bad and uneven going, so that we turned somewhat southwards and after somewhat southwards and after some stails could water be and after good firm going, but little grass fine hand gravel: halting in o pathah with good water below sur face.
63.	Camp in same Nu iab.	1 1- 6	887	Time, 4 boure, 5 minutes. Continued up same nullab, windin, somewhat and sightly up hil Fine graves hills all round. Goo water below surface. Time, 3 boure.

FROM LOD TO TAPEAR.

Number			DISTANCES.		
of singe and date.		Names of stages.	Inter- mediate.	Tolai.	Beware.
23rd July .		Camp in Open Plain	5	692	Continued up same nullab for about 3 miles, then gradually descended over open grassy plain, steering east for range of snow mountains in the distance. Water in small nullab below surface.
					Time, 2 houre, 30 minutes.
64.		Camp by email hill in nullab.	64	9004	Marched over grassy plains for some six miles, crossing several pullahs, then eatered a gravel bottomed nullah with rising ground. Good grass everywhere. Water below surface very salt,
					Time, 4 hours.
24th July		Camp in Salt Nullah	71	908	Over rising ground, thence descend to sait water lake and marched along its northern edge for some o miles then entered nullab slightly rising ground. No grass mear lake escept on south side. Water below sur- face in nullab. Very sait.
			1		Time, 3 hours, 40 minutes.
đ5.		Camp in same Nullal	5	013	Marched along same nullah a some what winding course and very gradual decline. Water in nullah solt. Good grass around auf wate close by ia two small pools, and in nullahs from adjacent hills, below the surface.
					Time, 2 hours, 25 minutes.
66. 25th July		Camp in Nullab in valley.	8	921	March through broad valley toward snow peaks, partly across oper grassy plain, partly along a nullat where we found pools of good water Hills on either hand drawing in somewhat closer. Good grass.
					Time, 3 houre, 45 minutes.
28th July		Camp in Nullah in same Valley.	8	0 29	Continued over open grassy plain crossing some nullahs and passing by some pools of good water.
					More pools and good grass in nullah.
			4	1	Time, 4 hours, 5 minutes.

FROM LEE TO TANKAR.

Number		DISTA	NOB6.	
Number of stage and date	Names of slages.	Inter- mediate.	Total.	B=141955.
67. 26th July	 Camp in nullab at end of valley.	61	D354	Continued through valley crossing several steep nullahs with water in some of them. Excellent grass everywhere.
				Time, 3 hours, 25 minutes.
87tb July	 Comp in Small Nul- lah West of Snow Peaks.	8	9431	Continued eastwards up pullah and up hill and after some six miles struck a northern course to avoid a very difficult pass that barred the road eastwards, Good camp, Splendid grass everywhere and water.
				Time, 4 hours, 10 minutes.
68.	 Camp by River	Głj	050	Marched along by side of river that came from snow range thence crossed it, half a mile broad, several streams about one foot deep, then over sandy but grassy soil, march- ing northwards.
				Time, 3 hours, 20 mizutes.
28th July	 Сатр пеат Lake	6	958	Turning to the right or eastwards unached up aullab up hill, with steam running all the way, thereo- crossed a grassy coil and again marched northwards down a nearcow grassy nullah to a bread valley, where stood a large lake into which the river found its way. Splendid grass everywhere and water plenti- ful.
				Time, 4 hours, 10 minutes.
6¥.	 Camp in Grassy Nullub by Lake.	61	9644	Good going along a nomada' road or track along southern border of inke over grassy land, rising ground the last mile. Water plentifu), Good camp.
		1	ļ	Time, 3 hours.
8916 July	 Camp in Open Plai	7	971	Good going up hill for about 5 miles over grass land crossing good stream of water form anow mountains after about 3 miles. Thence a gradual decline.
				Time, 3 hours, 15 minutes.

Rours	No.	L.

FROM LOU TO TANKAR.

Number		Dist	POTS,	
of stage and data,	Names of stages,	Inter- mediate.	Total.	RTMANXS.
70. 2966 Jaly	Camp in Nullah	8	079 i	Fair going for 5 miles over some- what uneven ground, sut up by several small nullels in most of which was water, a good deal of soil being slaty. Thence entered a nulleh running more sustarly with stream in it.
				Fair grass.
				Time, 3 hours, 85 minutes,
30£b July	Camp by Small Lake on Hill.	78	987	Continued down nullah for about a mole to small lake theses over a cell to autoher lake along a valley to 3 more lakes slightly brackinh, thence rather a steep ascet over another coll to small fresh water lake. Good deal of the land is slaty and there is less grass, but water is plenkind.
				Time, 3 hours, 20 minutes.
71	Camp by River	81	9954	Over a ridge and down hill following a track theace crossing over some hills, leaving nullah and water to our right. Theace are any descent on the other side and down a hig broad velley intersected by Dowing water, and snow hills on either hand. Fair going. Good grass and water.
72. 3]st Joly	Camp in Valley by Small Pool.	111	1,007	Heavy going through rain and suow along velley, wouldaing graspy lands. Thence cross a board river bad with several small streams after b miles, these gradually rising graspy ground, and after 3 more miles cross another river bad with small stream, thence undulating ground seady and graspy. Waiter plusti- ful. Good camp.
	1	1	ĺ	Time, 5 hours, 40 minutes.

FROM LEI TO TANRAB.

	Names of stages.	DISTANCES.			
Number of stage and date.		Inter- mediate.	Total,	Вямавея.	
78. 1st August	Camp by big Salt Lake.	10}	1,017	Gradual descent over grassy land and fine gravel and anady soil to a large mit water lake along whose sonthers edge we marched good roing. Good grass plentiful and other water (probably from recent anow). Snow pasks noth and south. Timo, 4 honrs, 15 minutes.	
74. Lod August.,.	Comp by another Salt Lake.	123	1,030	Good going over open plain fine gra- vel and grass, and thence along the edges of another large salt lake, which compelled us to strike some- what south west to get round it. Good grass and water pleutiful. Time, 5 hours, 25 minutes.	
75. 3rd August	Comp by another Sait Lake.	16	1,046	Pair going skirting round lake thence along valley over undukting grassy hand, passing by several small lake and decreating by several small lake and decreating by several small lake and decreation anoth small several even muge of bills; the northerr range with snow peaks beginning some four or five miles off. Good grass and good water. Time, 7 hours.	
76. 4th August	Camp in Small Nul- Jalı.	16	1,062	After passing salt lake somewhat heavy going up hill over soveral ridges for about 5 miles, thonce a descent over more ridges into a nul- lah winding in a north-sast direc- tion. Good grass; good water. Time, 7 hours, 35 minutes.	
77. 51b August	Camp Dear large Salt Lake.	16	1,078	Fair going over somewhat hilly and beavy ground, crossing several beavy pullule, and being compalled to make a detour north-west round a lake which suddenly appeared in our road. Good grass water plenti- ful. Snow peaks north and couth Time, 7 hours, 10 minutes.	

FROM LEIT TO TANKAB.

Tudank		DISTA	BCB2.		
of stage and date.	Names of stoges.	Inter- mediate. Total.		REMARDS.	
78, 81b August	Camp by small Salt Iske.	103	1,098	Rising ground up a nullah, thence over rising and dipping ground and crose a lavel gravel plain and dip down into a nullah with running water, follow nullah down to a broad sandy river bed with reveral alreame of water, some 2 feet deep flowing awiftly, thence over an open gravel plain with exactly grave lurning somewhat routh, the last lake with good grazing close by, and good water is small anliabe by digging. Time, 7 hours, 40 minutes.	
79. 7th August	Camp in Open Plais at Oasis.	15	1,113	threes over flat and and gravel plain on the northern side of a large sait lake with lute scanty vegeta- tion, thence crossing some small sandy bills, and over a level plain of fine gravel and bardly any grass, latting at a kind of Oasis, a small piece of rising ground covered with rich grass and aulhal close by with good water below surface.	
90. 6th August	Camp is grass Vel. ley in Nulleh.	10	1,129	Time, 5 hours, 40 minutes. Good going over flat gravel plain and after shout five or six miles cross- nior bed with several annual streams and at 10 miles acceed over range of hile, and descend again into a grass valley with sandy soil, several millabs mith small streams running down from the hills to north a mile or two distant. Sonthwards, plains, and small range of hills.	
61. 9th August	. Camp on Summito Pass.	f 10	3 1,143	Country well watered and grassy. Time, 6 hours, 5 minutes. Good going over grassy valley to a fram bottomed nollab, with good stream of water, follow nullab, close by bonaded on either side by hills, latterly becoming narrow, and winding between rocks, with grass	

FROM LEG to TANKAR.

		DISTS	8038.		
Number of stage and date.	Names of singut.	Inter- mediate.	Total.	Remarks.	
				and plants everywhere, thence a long secent of 6 miles through gravel and leate soit to suromit of pass. Rhubarb and some vege- tation in plain, and fine grass is all the nullhab by the hills. Nullab running down plain but too foll of water for matching up. Time, 7 hours, (halting \$ hour at 9- 16 4.x.).	
32. 101h August	Camp on Barren Summit.	10	1,101	Good going along southern side of fresh water lake for about three miles, thence ascent of about 18 miles, over heavy ground crossing except rubush, and all the hills around barree, one snow peak to notth. Thence gradual decent of one mile and half in harren spot, no grass near, and no rots, or droppings. Water too pleatiful	
		1	ļ	Time, 7 hours.	
83. 11th August	Camp ia Nullah with Stream.	6 <u>1</u>	1,166	Very heavy going following th course of a nullah downhill, much water in the nullah, but no gras along the barren bills, nutil ou halting spot where there was a ver- little good grass and droppings.	
		1	1	Time, 3 hours.	
84. 12th August	Camp in same Nul- lab.	11	1,168	vel nny further, through heavy fai of rain and snow. Good grass a both banks.	
	1	ł		Time, 1 hour.	
65. 131k August	Camp in some Nul lab.	- 7	1,175	Continued to follow same nullal heavy going all the way. Stream about 20 fect across, over a footdee and fast flowing. Grass in som places in hills on oither side.	
	1.		Į	Very gradual descent.	
	1			Time, 3 hours, 45 minutes.	

Rours	No.	1,
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FROM LES TO TANEAR.

	Number		Dist	ABORD.	
_	of stage and date.	Nature of slager.	Inter. mediate.	Tolal.	Britang.
5 6.	141b August	Camp in same Nul- lah.	8	1,185	Followed same nullah, a winding course, by necessity crossing the stream every five or ten minutes banks of hills in places steps. Haited where nullah widened to two or three buaired yards, as it entered the plain. Grans plentiful in places and roots no. Time, 4 bours.
87.]51b Angust	Camp ia same Nul- lab.	P	1,192	Marched but heavy going over undu- lating sandy gravel plain, little grave, thence graduully descending, struck toather nullah, with atream su before in it. Pollowed nullahs sandy bed till joined by original mullah. River knes deep and tweaty yards broad. Good grass. Time, 3 hours, 45 minutes.
66.	16th August	Camp by same Eiver in Nullah.	5	1,197	Owing to swolles river, and precipi- tous banks, marched round hild, following in general theriver, des- conting, crossed grassy bullab. Very hazar going. Time, 2 hours, 45 minutes.
80.	17th August	Camp by same Stream.	81	1,205}	Pollowed course of stream over gradual- ly descending graney plains, crossing several nullehs that ran into the southers side of the stream, which increased in volume, and ran more rapidly down is snady nullah, being stained a dull reddish color by re- cent rains. Time, 8 hours, 40 minutes.
90.	19th August	Cemp by same Siream.	71	1,213	Crossed river, water being above the kness and dowing fast, good firm andly bottom, and some thirty yards across, then continued along the left back, firstly in the samely nullah isself, thence taking a short way across plain, and crossing everal anal nullahs, while the river took a winding course.

ROUTE	No	t.

FROM LER TO TANEAR.

		DISTANCES.		
Number of singe and dale.	Names of stages.	Inter- wedinte-	Total.	Rousses.
Jelb August	Camp by same Stream.	6)	1,2184	north, with some difficulty, owing to soft sands, thence continued along left bank of the river, over somewhat uneven ground, cut up by small nul-
				labs and pools, slaty, sandy, soil, and grass, which was very green on the hills.
	1 1			Time, 2 hours, 50 minutes.
9]	Camp by same Stream.	3)	1,222	Continued to follow the course of the stream descending into nullab itself which necessitated much delay, as it was found impossible to cross river owing to trascharous bottom, and compelled us to turn back, and ascend sandy sleep bank. Good grass.
	ĺ			Time, 2 hours, 45 minutes.
92, 20th August	Camp by same Stream.	5	1,227	Marched over grassy plain and left bank of river. Good going except- ing any low-lying ground which was always treacherous, and the nai- mals sank deep into the sandy soil.
				Grassy hills three or four miles away to north and south.
				River apparently split up into many small streams.
		ļ		Time, 2 hours, 30 minutes.
92. 21st August	Camp by same Stream.	\		Halt.
93, 22nd August	Camp by Large Fresh Water Lake Southern side.	7	1,234	Marched northwards towards range of green hile, and ondeavoured to cross a large shallow fresh water lake, but half way across the water became too deep and bettom too moday. Compelled to turn back, and march wetwards along social bank. Heavy going, splendid grass.
	{	1		Time, 4 hours, 35 minutes.

Rours No. 1.

FROM LER TO TABELE,

Number		Dist	ANCES.	
eiage and date.	Names of slages.	Inter- mediate	Total.	Ruisan ra.
94. 23rd August	Camp by same Lake North side.	8	1,240	Continued very heavy going along the edge of lake; halting on the north aide, opposite camp of pre- vious day. Good grass.
95. 24th August	Camp by same Lake North side,	8	1,248	Time, 3 hours, 50 minutes. Marched eastwards along porth edge of hkc; very heavy going through recent rain. Yery fine grassy hills, soil mostly sandy. Followed track most of the way probably a Yak
				or Kyang track. Good grass. Time, 4 hours, 25 minutes.
96. 25th August	Camp by same Lake North side.	9	1,257	Good going eastwards, along the banks of lake again, all good grass, excepting near the lake which is sand.
				Time, 4 hours, 10 minutes.
97. 26th August	lst camp beyond Lake orar new River, Сиумац Rivss.	13}	1,270	After going some four miles the lake terminated, thence crossed some sandy billocky grassy country, bit- ting off another stream which ras esaterly and follower dreseral direc- tion of atcesm, which grew with others joining it, and at places ran awitfly at others aloggish, 10 yards across, ose to two feet deep. Coun- try around throughout the valley, very grassy.
1				Time, 5 hours, 50 minutes.
96. 27th August	Camp by same River North side.	811	1,279	Heavy going on account of recent rain, over outlass, and cut up ground; the river brading away soutbwards. River increasing, and saady soil, country all around very green. Followed river the last two miles, in an essterly direction. Roots pro- curable at intervals. Good grass.
	1			Time, 4 hours, 15 minutes.
99. 26th August	Cump by same River North side.	91 1	,282	Heavy going across several nullabs following general easterly direction of river. Good grass everywhere. Roots scarce.
			- {	lime, 1 hour, 45 minutes.

FROM LEB TO TANKAR.

Number		DIATANCES.		
of stage and date.	Names of stages.	Inter- mediate.	Total.	Врылосо .
100. 29th August	Camp by same River North side.	9	1,291	Very heavy going for first six miles over country much cut up by small multahe, followed course of river which winds considerably, after- wards winding northwards, and compaling us to ascend a largo hill when the river winds to east again, thence again descending to river. Groen grass everywhere, but rools scarce.
				River some 30 yards broad, and fast flowing. Reddish color. Good grass. Time, 4 hours, 50 minutes.
101. 30th August	Camp by same River North side.	10	1,301	Ilsavy going over a bill, scross an open grassy plain, then cross a river coming from the north, one foot deep, 15 yards across. Thenee over undulating grassy ground crossing several nullahs. Good grass. Time, 5 hours.
108. \$1st August	Camp by same River North side.	9	1,810)	Heavy going and could descent to river, thence over big bill, and over grassy ground cut up by nullaby, last two miles over flat grassy plain to a river coming from north, crass river, which is 20 yards wide and 3 feet deep. Strong current. Good grass. Time, 5 hours, 15 minutes.
103. let Septembe	r Camp by same Rive North side.	r 11	1,321	I Heavy going over a plain bounded by white story hills with little grase for some seven miles, thence very bad going by eide of hills over heavy ground very much out up. River increasing in volume. Forly yards wide. Strong current. Good grass. Time, 6 houre, 40 minutes.

ROUTS No. 1,

FROM LER TO TANKAR.

Number		DISTATCR.		
of singe and date.	Names of stages.	Inter- mediate.	Total.	B FRANKI,
04. 2nd September	Camp by same River North side.	18	1,335	Good going following the course of the river over grassy plains and while stony soil, or along the bed of the river, crossing some small streams that ran into the main one. Good grass.
				Time, 5 hours, 40 minutes.
106. ård September	Camp by same River North side.	18	1,346Ļ	Good going, and for first half, over flat white stoop plain, with Lut little grass, and nothing to relieve the tomoutory but the morey peaks, north and east north. Alterwards river bends a little more east, and the white stony soil is replaced by alluvial soil and certain amount of grass.
				River bed half a mile, or a mile across at times, and the river be- comes split up.
1				Time, 5 hours, 45 minutes.
106. 4th September	Camp by same River North side.	141	1,361	Good going over Open plain with a very gradual descent, fair amount of grass in places, but nothing to relieve the monotonous country. Time, 5 hours, 50 minutes.
07. 5th September	Camp by same River North side.	13	1,374	Same going as yesterday for the first eight miles, thence the ground becomes more sandy and a little bit broken up. The hills north and south have drawn
				in a little bit closer. The river runs from 6 to 8 miles an hour. Fair amount of grass in most places.
	1			Time, 5 hours, 30 minutes.
108. 8th September	Camp by same River North side.	7	1,391	Much the same going as yesterday ground a little broken and mostly sandy soil. River not split up into quita so many channels, becoming more condensed. Going somewhut heavy in places through night's raiu direction a little bit south of east. Grass and roots fair.
				Time, 9 hours, 5 minutes.

FROM LEU TO ТАНЕАВ.

	Kames of slages.	DISTANCES.		
Number of stage and data.		Inter- medi st e .	Totel.	Bowaber.
100. 7th September	Camp by same River North side.	12	1,303	Same going over chiefly sandy soil with some heavy hitle nullabs to cross, belter gress in most places. Halted within a couple of miles of north hills, which become lower and no sow visible. Time, 5 hours, 80 minutes.
110. 6th Soptember	Camp off River Chumar.	15	1,408	Heavy going for six miles np a pase, and over it, working more north- wards, very steep in places, and send very deep, thesse four miles along a grass valley, afterwards working more saturand a slong an- other grass valley, skiriting south- ern hills, in places finding well defined track, at the same time fol- lowing a recegnized route, baving certain land marks of mod.
111. 9th Septembe	Camp in Valley with Merchant.	15	1,423	Time, 7 hours. Good going following a track over undulating ground through grassy nulluls with streame in them, range of soow hill to north. Good grass. Time, 64 hours.
112. 10th Septem bor.	2nd Campin Nullat with Merchant.	14	1,437	Very good going slong well defined track, firm sandy gravel soil, and fine grass salleys. Good grass. Time, 5 hours ,40 minutes.
)13.]]th Septom ber.	- 3rd Camp in Valle with Merchant.	10	1,458	Up bill over an easy pass, and an easy descent to valley some 7 miles, thence across valley with but fittle grass to opposite hills, skirting along them over undulating ground to some fair grass with stream.
114. 12th Septer ber.	n- 4th Camp in low V. ley with Merchan	11- 13 at.	5 1,46	Time, 8 hours. 8 Hising ground with but scanty grass but well defined track over an easy pase theore quick descent; good going down valley, hounded half a mile on either hand by steep bills;

FROM LEE TO TANKAR.

Number		DISTAPORS.		
of stage and date.	Names of slages.	Inter- mediate.	Total.	Amtaus.
114. 13th Septem-			1,468	last two miles bending round to right, still descending to grassy bills with stream and stony bed. Good grass. Time, 8 bours, 80 minutes. Halt.
ber, 115. 14th Septem- ber,	6th Camp by Sau- GATZA River closs to TONG Hills.	18	1,486	Good going down stony bed of river in valley bounded by presipitous montains, thence through a carrow gorge and down valley of scrub and thorabushes to river Sbugstas, soms 30 yarda scross flowing north- wards, and soms 3 feet deep, stony bottom, neck deep in other places.
116. 15th Septem- ber.	6th Camp in Grass Valley by River.	9	1,405	Brushwood and good grass. Time, 63 hours. Good going over open plain re- sembling a prairie, bounded by bar ren hills some six miles acress, rose defined and on right sido of river
117. 161h Septem	1st Camp in Valley	, 9	1,504	Sandy soil. Good grass. Time, 3 hours, 10 minutes.
ber.	after leaving Mer- chant.			scrub and low thorobush in places stony in some. Good grass. Time, 4 hours, 50 minutes.
118. 17th Septen ber.	a. Camp in same Valle	y 15	1,513	fiood going as before through valle if proper road be taken. We too a wrong road, up a stony nullah which many stones pield one on to of the other pointed, after goin uise miles. Found a hot sprin which is probably the cause of it land marks. Travelled up ould over range of hills, and over an other sullah to valley and over queelly to road again. All hill stony with some serub. Grass is plentiful in valley. River half mile to a mile off.
				Time, 7 hours.

ROUTS NO. 1.

FROM LEH TO TANKAR.

		Dist	HC119.	
Number of stage and date.	Names of singes.	Inter- mediate.	Total.	Вамария.
119. 16th Septem- ber.	Camp at Mouth of Nullab is Valley.	13	1,630	Good going over somewhat story ground, thenes across grassy plain, crossing came small storams, where previous encampnents have been, thence enter story called have to ind incrition of whitid story bills. Italt in nullab. Grass scarce. Time, 5 hours, 15 minutes.
120, 10th Soplem- ber.	Camp over Pass of Succa Rance.	16	1,5 46	Up stony nullah, two or three hund- rel yards broad, with stop mean- tion on sither eide for some nine miles acconding all the time. Top of rance, probabily the Shuge marked by a pile of stones. Road up nul- lah sometimes traceable either by itself or by droppings and deal ani- mals of privious caravan. Thence as eary descent to small bill in grass plain, noticenable by three long stones on top, regular camping ground, water prohable y three long stones fair. Used anow. Time, 6 hours, 40 minutes.
121. 20th Septem- ber.	Camp by DAPSOBA at Entranco to Nul- lalı.	18	1,562	Easy descent along well marked tracks crossing over a small hill, after go- ing six miles, descending allewrands most of the way over gravery plains. No water obtainable till close to halting place at eatance to nallah noted by large heap of stones, sticks and rage on bill close by. Good water and good grass. Time, 6 hours, 5 minutes.
128, 21st Septom. ber.	Camp in Nullah Buunan Bora,	16	1,579	Good going down nullah by side of stream crossing from one side to the other as will bet. Stream about 20 yards across, very switk, and knee deep. Good balting place, roots and grass. After marching uine miles a regular conping ground. Other small camp- ing grounds every three or four miles down nullah. Some places thick lash jungle. Worts after marching thirteen miles. Rugged precipitous moustain ou either bask. Time, 64 hours.

ROUTE	No	1

FROM LES TO TANKAR.

Namber		Dre	ANCHA	
of stage and date.	Names of stages.	Inter- mediate	Total.	Bawauns.
123, 22ad Septem. ber.	Carop by same Stream.	12	1,590	Started crossing stream agais, re- crossing about five miles lower down- banks on a tither side stony, or with earnab, but so grass till after eight miles where there is a regular lait: ing place and epring. After tee miles and descenting fast, tilté jungs egains is resched, with fruit trees, wild currant and rapherries. There is also a prayer wheel turned by water power, inside a brick and mud square enclosure. Many sigos of camping grounds for the last two miles. Good grass and bush. Time, 7 hours.
124. 23rd September.	Camp in Grassless Plain.	17	1,607	Continued down nullab for three miles with no grass, then ascended a ridge and descended by a narrow pathway into a grassless arid phain with little serub. Laeving the stream which ran along the barren bills, a mile or so to the est. At twelve miles hit off river again with little bush and grass; clean water, flowing swiftly, over stones and boulders, knee deep, thence over hard stoay arid plain, track all the way and descending. Time, 7 hours.
125. 24th Septem- ber.	Camp with People at Namoran.	12	1,619	Continued descent over arid plain los- ing track, after 3 miles the coun- try locomes less atony, with sandy hilloks and fur like wavy back growing on them, with long grass. River becomes split up with many chancie. As descent continuer, grass and burb heome thicker and greener and sandbills disappear, till plain with thick buch, and grass easdy soil is reached. Time, 4 hours, 45 minutes.
125. 251h Septem- ber. 126. 26th Septem- ber.	Camp with People of NAMORAN. Camp at Coroo			Halt. Marched eastwards, after one mile the rich bush suddenly ends, and well wora track crosses a perfectly sterile loose story plain each for miles across, when some sandy

BOUTS No. 1.

FROM LEU TO TANKAR.

		DISTATCS.			
Number of stage and data.	Names of stages.	Inter- modiste. Total.		BPWARES.	
				billocks and wavy bush are resclied, this gradually becomes denser with gree grass and fruit bushes, bill open grass plain is reached, and spring at Ootoo.	
				Time, 51 hours.	
127, 27th September.	Ватая Gol	23	1,656	Through fruit trees and grass well worn incks, after two miles reach first Spor fest encompilent. After eight miles eross grassless plain, with salt soit, and alst stream, some two miles across. At como two wiles mach Schild itsean a latter this mot so marked, passes through same kind of country till Bayan Gol is ranohed, 20 yarda across, 3 deep, soltish bottom, water fairly elsar, flowing some aiz miles an hour. Good going all day.	
127. { 28th 20th } tem. 30th ber.	BATAN GOL		1,656	Halt.	
128. Ist Oclober	Batan Gol Kanoo	1 11	1,687	Followed easterly course the right bank of the Bayan Gol, track and good going, alter a couple of miles of hermok bush, open grass plain of dry yellow grass. The soil being in many places crusted.	
			ł	Several signs of halting places en route.	
]	1	1	Time, 3 hours, 45 minutes.	
129, 2nd October	Kakokhulasum	16	1,653	Good going all the way over open grass plaine, with little hermok bush here and there. No water until halting place, where there is a spring in open grass plain.	
				Followed tracks all the way, good deal of the ground is crusted, appa- rently saltish. In Dzun District.	
	1			Time, 5 hours, 35 minutes.	
130, Srd October	Y CMANSERA BRORTE	n 20	1,703	Followed tracks over same kind of country and after six miles some to a spring, evidently a camping ground, and soon afterwards bit off Tankar main road, showing signer of frequent use, by the many tracks and droppings of baggage animals. The country bere was andy, and	

Routs No.).

FROM LAR TO TANKAR.

Number			RCBS.		
of singo and date.	Names of stages.	Inter. mediate.	Total.	BEALDER. F	
				becoming uneven with many small sandy hils. At 12 anise there is water, apparently a pond which they say is sever dry. Good water, At 13 unite, the andy hills give way to an open arid plain for about 2 miles, and soon a liter grass and berzook is reached again, with fine grassy plain, and spring at comping ground.	
		ł		Time, 7 hours.	
131. 4tlı Oolohes	Taluntundin, Kak- benama Stream.	19	1,792	Road leads for sitteen miles over sendy hills for first five miles, and ben were barren stony phine, with serab, very gradual ascent. At 12 miles it passes close by the Suling- Gol at lafs hank. This river flows at six or eight miles an hour, close mater, over a stoop bolizon with pout grues and lunch along its banks some six yarde broad, and about a foot deep. Last three miles passes over good grassy plain with bermok bush.	
131. 4th October	TALUNTORGIN. KAE- SENADA STREAM.	19	1722	Small stream of Kuksenama at halt- ing place.	
				Time, 61 hours.	
182. 5th October	Танканаоа	27	1,7+0	Wall defined road, very gradual accut over arid plains with earnu and analy hills and at 16 miles while the hills on oither hand close while the hills on either hand close it. Therace an open plain story with for the hills elsecent. The road then enters a server water is said to be fatal, and in never druck, and decease this for some three four miles when open plain is reacted, in which is safe lick and semilar of two deserted "Sopor" villages, and after four for the grass and ster four found. No other matter source found. No other matter source	
183. Bib Oolober	TULING GOL	80	1,769	Time, 9 hours, 45 minutes. Cross over valley in a northerly di- rection, fair grass, theu cross the "Noring-Hol" River, three fest dsep, muddy bottom, almost still; the	

ROUTE	

FROM LEB TO TANKAR.

Number	1	Dista	WC28.		
of stage and date.	Names of stages.	Inter- mediata.	Total.	BRMARES.	
134. 7th October	Tuanca Nob (white)	17	1,780	north side of river is called "Nor- ing " and south side "Holf." Tracks continues for another seven miles over the valley crossing firstly heavy sait soil, thence gravel and andy soil, with fair grass. At 10 miles eoters the Tuling-Gol. Shallow clear stream, 10 yards across storey boluom, flowing merily. Good grass in nullah and camping grounds anywhere. Halted after follewing if for about sight miles, not far from the stift (two or three miles) very gradual ascent. Time, 7 hours, 25 minutes. After two miles up a grassy nullah an old Chinese encampment in vialego of Tuling Gompa, most firty disputed after four miles the village of the last and the seven result. Time, 7 hours, 25 minutes. After two miles up a grassy nullah an old Chinese encampment in viver. A mile further on, on either bank are that, and half-a-mile away from inver. A mile further on, on either bank me that y of them. Here too, are two roads to Sing, the right hand one lead over bills, up valley, is shorte the treb water lake of "I hanged" is reached, early two miles long, and about half-a-mile aroug grassy nullate, and at alout fiften miles the fresh water lake of "Thanged" is reached, early two miles long, and about holest reak out. Stort - The sumits of the hill at preter. about two lest deep, bottom par- tially sandy and maddy.	
	•			to usy are covered with print frees, these trees were growing almost as low down as the read itself. Thing Gompa is the resort of the lame and blad Sopories.	
135. 6th October	Ocroo or Bara Nullah	19	1805	Road continues through grassy nul- labs with no water, in a north and north by western direction, and at 10 miles a conspicuous rock	

	No.	
ROUTE		

FROM LER TO TANKAR.

Number		Dist	ANC29.		
of stage and date.	Names of stages.	Inter- mediate.	Total.	Венадуе.	
				stands out in the middle of the val- ley. There is a cave inside and a smull courlyard of square blocks, one or two yrahe long, by 1 k 1 at the entrance (called Kanjur). Fourther on, 5 miles, a small stream in found at spot called "Nicotine- Kontal Pass. An easy accose and descent in a more satering direction to spot called Octoo by Sopor may, good grass by a small stream, Mountains barree and rocky steept- ing where the pine grows. Good going all day and no mistaking road.	
136. 9th October	Волан	21	1,826	Time, 7 houre, 5 minutes. Gradual descent in easterly direction over grassy rising ground, follow- ing alferwards course of river on right bank, over plaise and rolling ground. Good grass. Hills slac grawar. Coos river at 17 miles clear water (wo to three feet deep, stony bottom, Bowing some six miles an hour, costinue co laft bank over grassy plain. Roots plenkiful. Hiver bed quarter of a mile across ; river aplitup into two or three channels filteen yards across. Time, 7 hours, 40 minutes.	
137. 10th October	Ηλτυτυβάτ Cainn Κοκο Νοβ.	22	1,817	Good going over grassy plains well watered by streams merrily flowing to Koko-Nor. After eight miles como to tents of Banaka people, and contiume by the foot of grassy bills dotted with their Socks. At 17 miles good halting place at foot of rising ground. Halt at summit, fwre miles, by stream, there or four miles north of Cairs on hill compi- cuouw, in view of lake. Time, 7 houre, 35 minutes.	
138, 11th October	Camp by Stream running into Koko Nos.	22	1,369	Good road, leads over fine grass country, first ascending a small bill, thence gradually descending a small lake. Thence over grassy plains	

FROM LEH TO TANKAR.

Number		DISTARCES,			
of singu and date.	Names of stages.	Inter- medisto.	Total.	Вамлана.	
139. 121h October	Stream foot of	33	1,007	dotted with Banaka tents, till at thirteen miles the Bogo-ulun stream is easily crossed, there are other streams after eighteen and twenty- two miles. Grassy hills to actu- and snow hills bayond these. Time 7 hours, 30 minutes. Good road, over fine grassy country, after ten miles lower ground is	
	Pass North of Daga Nog.			reached, with streams and bruch- wood. Large encampment of Banaka men, and Lamas also. Swampy ground for three or four miles and streams; thenco rising ground and gradual descent to river 28 miles. Gradual rising ground ngain and descent to streams et 36 and 38 miles.	
		l	l	Time, 3 houre, 30 minutes.	
140. 18th October	Western River or Ta-Ho (big) or	40	1,947	Easy ascent of nine miles to top of pass, crossing a broad valley, thence an easy descent, but swampy heavy road, following stream called Si-Ho or Ta-Ho or Chuchok for five miles.	
	Споснов.			Afterwards good road, descending through grassy valley, following stream. At thirty miles road boads round to the right, sud Sollows close by the river the last four miles.	
	ļ			Ilills close on either bank, stream bere twenty-five feet broad, flowing fast, two to three feet deep, strong bottom. Road stony in places.	
			1	Time, 9 hours, 10 minutes.	
]4], 14th October		16	1,963	One wile along river then cross it to lait bank. Four feet deep, strong current, buttom of boulders and siones, but good banding at both banks. Grassy country, road follows cleas by stream, stony in places. Hills close on sitten back a few popless and cultivation	
		1		Road again follows close by stream dipping, and rising, and stony.	

ROUTS No. 1.

FROM LEE TO TANEAR.

Number		DISTANCES,			
of stege and date.	of Names of stages, stops and date.	Inter- mediate	Total.	BEMANES,	
	Сомра Soba			Pass Monastry (Gompa Soba) on right back and afterwards pass through cultimated country for about its miles. Treas and several email villages. Good road leading up to Tanker and practicable for country caris. Time, 5 hours.	
141. { 15th } Oc- 16th } tober	Танкан			Halı,	

ROUTE NO. 2.

FROM TANKAR TO CHUNGWEL.

Number	1		Distancas.		
of stage and date.	Names of stages	•	Inter- mediate.	Total.	Remarks.
3. 17th October	LUSAB		21	21	Good mule read follows "Si-Ho" for five (an inn here) miles.
	HSIANUOR				thence erose by wooden bridge and also the liseabor small stream running into it. Thence ascend over an easy pass and good road but hilly through cultivated land and well watered, and villages.
2. 18th October	Simina	•••	15	30	Good road, following stream through a well watered and cultivated valley, dotted with small villages. Curt road.
3. 19th October	SINING				Halt.
4. 20th October	CHANG KIATSA		24	00	Good mule road following stream.
5. 21st October	Shangtan	•••	42	102	Good nule road through cultivated country after 20 miles enter gorge through which river runs. Last two miles passing through open country.
6. 22nd October	Маниентаа		27	127	Road crosses river from north. Ferry boats. Deep and strong current some 60 yards scross.
	PAITUN IIO	•••			After through treeless country. Cultivation.
					Most of the fields being manured with big stones.

HOUTS NO. 2.

FROM TANKAR TO CHUNGWEI.

Number		DISTANCES.			
of stage and date.	Names of stages.	later- nediato.	Total.	Rewiers.	
7. 23rd October	SINCHENG	15	144	Good road through cultivation.	
	By river to LANCHEO	21	165	Afterwards down river by skin raft down the Yellow Niver.	
				Junction of the Si Ho and Yellow River 27 miles from Lanobeo at village of — by the ealt pass.	
8. 24th October	Цансиво			IIult.	
9. 25th October	Suvi Репно	21	186	Indifferent cart road up hill through barren hilly country.	
10. 26th October	Lutonatss	27	213	Through flat uninteresting country passing village of "Shaukiatong" 60 li (3 li equal 1 mile).	
11, 27th Ostober	Тагарат	83	246	Desert like country, fair read, village of Chong-Changtsa 50 li.	
12. 28th October	Іптілозпіли	18	264	Desert like country little vegetation, no trees, village of "Honshibpu" 40 li.	
13. 29th October		27	291	Heavy road sandy and hilly; country desolate.	
14. 30th October	IBDANCEDEN	30	321	Very sandy road, barren country.	
				"Kantangtsa" after 60 li.	
15. 31st Oclober	Shapoetsa	21	342	Very sandy road, thence follow the bed of stream down to river again and then over deep eand following the bed of river north west. Thence ferry boat.	
16. løt November	Сноножы	12	354	By road and skin raft. Road sandy. Raft taking about 4 hours.	
2nd]		ļ	ł		
3rd November				Helt.	

ROUTE	No	3.	

FROM CHUNGWEI TO PAOT'EO. DISTANCES. Number of stage and date. Names of stages, REMARKS. Inter-nediate. Total. 5th 6th ç November ••• 78h 8th Wool beat down Yellow River. 9th 101b November ••• ... 11th 12th 1.Jth 13th November ... Рлот'во 600 954 Nine days down "Ho-ang Ho" or Yellow River as far as Paot'eo. Travelling some of the time day and night, most of the way through flat uninteresting country. River sometimes 2 miles broad. Probably 600 miles, much winding.

ROUTS	No.	4.
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FROM PAOT'EO TO TIENTSIN.

Number		DISTANCES.		
of stage and date.	of Names of singer. store and date.	Inter- mediate.	Total.	Revance.
13th November	PA07'E0			
1. 14th November	TOURTSI to SALARI	30	30	After 13 miles come to Tourtai,
2. 15th November	Taritsi	37	67	After 10 miles come to Mitourchen.
3. 16th November	KUEIHUACHEN	40	107	After 17 miles come to Pehsieki
4. 17th November	SHIRBONGWA	80	137	
5. 15th November	CHAIIFOLI	3 3	170	

ROUTE	No.	4.
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FROM PACT'RO TO TIBATSIN.

Names of stages.					
	Number of Names of stages. stage and date.		Total.	Пяманке.	
Ilolositai		+0	210	Halt ofter 17 miles at a villago.	
CUANALPO	•••	43	253	After 17 miles come to Mongol Camp.	
TROTACEBO	 .	38	291	After 20 miles comes to Chakari.	
UBRITALITAORI		49	333	After 25 miles comes to Hsingpingho.	
NANTSINGPO		47	980	After 22 miles comes to Jokintong.	
SILOSIFU		82	412	After 14 miles comes to Shuenhuafu.	
HUAILAIRSIEN			{	After 12 miles comes to Kuniosi. After 27 miles comes to Sachang.	
NAREO		32	401	After 17 miles comes to Chatao,	
PBEIN	•••	38	623	After 17 miles comes to Shaho.	
Tientsin		84	607	Inns to stop at half way.	
				Miles.	
				LEII to TANKAR 1,963	
				TANKAR to CHUNGWEI 354	
				CHUNGWEI to PAOT'RO 600 (by river)	
				PAOT'EO LO TIENTSIN, 607	
				Тотал 3,524	
	Спанаето	СИАНАLРО Теотаобео Иеятзитаори Nантзилоро Siaosipu Huailaindien Nareo Peein	СШАНАЦРО 43 ТВОТАОЕВО 38 ПБИТАОЕВО 42 NANTRINOPO 47 Sladstpu 32 Huailaingien NAREO 32 Peein 36	Сцаніа.Lpo 43 253 Твотаокво 38 201 Пеятлітаорі 42 333 Nantinopo 47 330 Siaosipu 32 472 Ниальніяня { { Nareo 32 401 Рябіл 38 523	

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