

JOURNAL OF NORTH-WEST TOUR, August-December 1943

LOG:

中英科學合作館, 甘肅路紀念: 公事路行

[i]

Sat. 7th Aug. 1943. 10am: off from Chungking. 7am [sic: probably should be "pm"]: arr. at Neichiang, 234 km. [Distances may refer to road markers or to actual distances.] 36 gals in tank, 14 in drum, 30 lbs. grease, 20 gals engine oil.

[1]

文英街 110 号, 羅孝全 H. C. Lo [Luo Xiaoquan], friend of Mr. Jen. Sir Eric [Teichman] staying with him.

S [Sat.] 7th [Aug. 1943] dep. [Departed] Chungking [at 10am]. (Kuang Wei 鄺威 [Kuang Wei], Huang Hsing-Tsung 黃興宗 [Huang Xingzong] Li Dan-Yao 李丹耀 [Li Danyao = Joseph Needham], Ed Beltz, Robert Payne, Liao Hung-Ying 廖鴻英 [Liao Hongying], and Lo Chung-Shu 羅忠恕 [Luo Zhongshu]) [seals of the five Chinese travellers affixed here]. Agreed on [Kuang Wei's] salary: 2000 + [40?] per day. Passed and greeted all the diplomatic cars while going up Shantung hill. They were returning from Lin Sen's funeral.

[2]

At 116km [reached] Yungchiang 永江 [Yongjiang] [top of page: Sunday 永川, 196 yuan?]. Had very good lunch there, near the bus station at the western end of the town, 222 for five (me) [i.e., lunch for five cost 222, and JN paid]. Beltz and Payne paid 40 each.

CTS [China Travel Service] at Neichiang very good. All dined marvellously with 羅孝全 [Luo Xiaoquan]'s family and cavalry colonel trained at Saumur (excellent French).

M [Mon.] 8th [Aug.] dep. [departed] Neichiang. Discovered the [diagram: looks like upside-down wine-glass with line underneath]. Bill at CTS [China Travel Service]: 334 plus 50 for tip. Beltz paid me 80. Sugar plums 325 for five boxes. Lost Robert Payne's mac. [Road] rougher going. Lunch at 簡陽 [Jianyang], "simple" [referring to the place name?], 68 km from Chengtu. All paid by Lo Chung-Shu.

[3-4]

Before lunch, half an hour out from Neichiang, called on Chang Chu-Hsi and picked up 90 gallons of alcohol (paid for previously) and 10 gallons of absolute [pure] alcohol for mixing with Kansu gasoline. Apples to eat and tomatoes (basket of).

Got into Chengtu 5.30. No control inspection.

9th & 10th [Aug.] At Chengtu. Repairs to radiator and stopping oil leak, 280. Cost of drum wrench and tyre levers, 150. Total 430. HHT [Huang Xingzong] returned me 400, thus 30 more; set this off against his previous debt. I stayed chez 何家 [at the family home of Ho Wen-chun] and Huang and Payne [stayed] chez the Bakers.

W [Wed.] 11th [Aug.] Dep. 成都 [Chengdu] 7am. As before, minus Robert Payne and plus 陳自信 [Chen Zixin] (very charming) are going to Lanchow to the Epidemic Prevention Bureau there. Breakfast at 廣漢 [Guanghan] at 45 km. [One can see the] flat Chengtu plain, then the rolling hilly heathland with blue mountains in the distance. Breakfast 108.

Lunch at 新店子 [Xindianzi], at 125 km. Chung-shu left for Anhsien here after being carried past across the rotten bridge while asleep. Lunch 185.

At 135km [we] skirted Mienyang 綿陽 [Mianyang] and crossed on the ferry. HT [Hsing-Tsung] said, "The ferryman was very nice and called you laohsiang (old countryman)". At 191km we reached Chitung 梓* [sic, 梓潼 Zitong] about 6pm, over the old bridge which I photod [photographed]. Had dinner at the Peiping Fandien [restaurant]. Dinner 103. [We stayed at the] 四川 [Sichuan] [Sichuan Hotel], [parked our] Hsingli [luggage] (Hotel 100). Camp beds OK, but Hung-Ying [s? was] ruined by bugs.

[5]

0 [Thurs.] 12th [Aug.] Dep. Chitung, dep. 5.15am! bkfst. [breakfast] at Luikou Bridge (40), [surrounded by] lovely spacious hills, beautiful place, cf [just like] California]. Eggs destroyed. [There are a] limestone mountain wall in the distance and huge saw-shaped ridges. The 200km mark was passed very early in the morning. [The scenery was of] spacious high hills, terraced with very large cedars, said to have been planted by one of the Sankuo people; if so they must be some 1700 years old. In one case across a built-up causeway with avenue of cedars. A ridge for miles. Should stop at Chang Fei's Temple, Chi-Cho Shan. In the distance, great hills, looking saw-shaped [diagram] and later like waves of the sea. The landscape is like that of Morna Moruna in Wm of [The Worm Ouroboros, a novel by E.R. Eddison]. |6| This is hard sandstone overlying shales (mud) which weather leaving the sandstone in cliffs on the exposed side, the whole being tilted [diagram]. Breaks off homogeneously weathered.

At 300km exactly, [we came to a] wonderful pass, the Swordgate Pass 劍門關 [Jian Men Guan] which was famous in the Sankuo [Three Kingdoms]. Monument and [wind.], [subjects of] poems by Tu Fu and Li Pai. After that a broad upland river valley followed until Chao Hua 昭化 [Zhaohua] at 325km. [We had] lunch at Peiping Fandien, 83. 5km further on is a slowish ferry over one branch of the Chia-ling River.

At this point we had the right front wheel brake drum stick. We adjusted the foot brake tightness and opened the brake fluid cap, and worked the [flr.? = floor? foot brake?], making it bubble. On backing [reversing], all was OK save for a slew to the right which shortly disappeared.

[7-8]

355km arrived opposite Kuangyuen 廣元 [Guangyuan], at 3pm [due to a] very slow ferry with eight trucks in front of us. In the town [we] contacted Tai [Sir Eric Teichman] who was at the empty (Ch. [Chinese]) CIM [China Inland Mission]. We stayed there ourselves, very comfy. Excellent dinner, 114. Paid to CIM caretaker against our coming again, 100.

Couldn't get the gasoline this evening. [We were] informed that the road was out at Tienshui [天水, Tianshui]. Wheelbarrow man 20, car parking fee HHT [Huang Xingzong] 22.

F [Fri.] 13th [Aug.] Dep. Kuangyuen 5.45am. [Reached] control [point at] 6am. [Filled up with] gasoline, 6.15, left by 7.00. (non radii solis [no rays of the sun])

25 + 5 absolute alcohol in 1 drum
25 + 5 " " in another
10 in a third

We had breakfast by the river tunnel near the top of the first pass. [There were] overhangs. Eggs 16, Eggs 11. We went up [along] the terrific Djialing River [嘉陵江, Jialing Jiang] all the morning. Like [a] vast Llanthony [in Wales]. There were three great passes: the first under the Szechuan Road Adm[inistration], the second and third were much better engineered under the NW Road Adm [Northwest Road Administration]. The Szechuan NW Road Adm km post was 420, [to] start a new km series at 141.

From this place to:

Baocheng 褒成 141 km
Hanchung 漢中 [Hanzhong] 156
Baochi 寶鷄 [Baoji] 381
Tianshui 天水 509
Lanchow 蘭州 [Lanzhou] 879

Immediately after this, the road surface became as good as a French or English main road. Kms [are] going down now. We refilled partly with alcohol in the third pass, about 8 gals. The Shensi people have a virile dialect, they paint their housefronts red and wear white trousers and coats instead of blue gowns.

114km mark. Had lunch at Ningchiang 寧羌 [Ningjiang] ("pacifying the Chiang tribes") -pork and river shrimps. Bought two lovely coral seal stones, 18. |9-10| We got through the fourth pass at 五丁關 [Wu Ding Guan]. At 2.30pm the alcohol gave out after running till km 86 (most surprising power on these mountainous roads). Changed the carburettor tops. The feed was imperfect so took off feed pump, and put grease between the leaves of the diaphragm, [after which] it started OK. [This] took 2 hours.

420-355 = 65; 141-86 = 55; 65+55+120. So at 8+14 = 22 gals alcohol only, so about 5/ [km per gal?] over the mountains.

Off again at 4.30pm. Debouching into the Han river valley, with the storm behind us, we passed old Mienshien with its empty city walls where there is the tomb of Chu-Ko Liang who held this place against Wei for Shu in the Sankuo [Three Kingdoms] time. Arrived at Baocheng 6.30pm, [at the] 0 km mark. Found 40 trucks waiting for the ferry so we put up at a little inn, open air. [There was a] storm alarm and also a lunar rainbow. Details in letter to Δ [Dorothy Needham]. Cost of dinner and inn, 140. Breakfast, 56. Camera went wrong. Beltz paid 20 for wheelbarrow.

S [Sat.] 14th [Aug.] dep. Baocheng. HHT [Huang Hsing-Tsung] went across the river early and contacted Sir Eric, and got [us] military priority to get across. [Sir Eric got in] trouble with gend. [gendarm] for φ [photographing] bridge.

[We were] informed that the road was blocked between here and Miaotaidze. Must wait. So [we went] off to Hanchung 15km to wait. At 漢中 [Hanzhong] the CTS [China Travel Service] was all full up, so we went to the Moores at the CIM [China Inland Mission] with Sir Eric and all of us were put up. Had an enjoyable visit to Bishop Civelli and his merry men.

S [Sun.] 15th [Aug.] at Hanchung. Very, very hot. High Mass, HHT + JN [Joseph Needham], CIM, LHY [Liao Hung-Ying]. [Did] map and proofs, and wrote Δ and Pres. Lai Lien. Sir Eric left at 11am for Miaotaidze. Four of us had dinner in town, 93.

|11|

M [Mon.] 16th [Aug.] dep. Hanchung. Up at 5am and carried Mr Han to Baocheng. We went up the gorge to 石門 [Shi Men] pass, famous in San Kuo. 150 each for the two nights, 100 for the amah. Total of 850.

Hanchung 255 km post, Baocheng 240. Lovely bathe with breakfast.

Ma Tao I 馬道驛, Richtofen's susp. br. [Ferdinand von Richthofen's suspension bridge] [characters and this note in red ink] little washout negotiated, 208 km. Breakfast at 8.30, 207 km.

At 192km arrived at 武關河 [Wuguan He] at 10am. Awful big washout. Lines of trucks and endless mulecarts there all day. Hopeless organisation. An incident officer should have been appointed with full charge for as far as the traffic jam extends on each side. Here again, like the rotten bridges on the Szechuan side, surely far more money, men, and effort ought to be spent on this great national NW artery.

Eggs and potatoes for supper, HHT [paid] 66. |12| Slept fairly well in and around the truck. During the night 100 more machaidzes [machezi? horsecarts?] came by and were only stopped at 3am by a driver behind us who drove his truck across the road.

Tues. 17th Aug. dep. Wukuanho. Had lovely bathe about 5am in river and a good breakfast. Traffic northbound the first day when Tai got through, southbound yesterday, now northward again. But at about 8.30am an awful air force officer forced passage with four southbound trucks. Had an awful job to stop southbound traffic; Ed [Beltz] was stationed at the top of the road and HHT at the bottom, while we brought the car down, breaking a support on the way. [We were] just ready to cross, when miles and miles of army supplies on foot came through, cutting [us] short and making everyone wait. [Got] across at 12.10 (26 hours delay).

30km to Miaotaidze 廟台子 [Miaotaizi], a lovely Taoist temple where we put up for the night. Had slight trouble with petrol feed supply. Arrived at 2pm and repaired hood till 4pm.

|13-14|

Geological Interlude:

[Here follows a diagram which is verbalized below:]

There are three kinds of rock: igneous, volcanic, and sedimentary. Igneous rock can be either acid or basic. Acid is hotter and gassy, while basic is cooler and liquid. Acid rock is either granite or gabbro. [About granite JN says:]

metamorphosed
pressure
orientation of particles

[gneiss or gneiss]

along cracks crystals form, quartz (silica) in pegmatite magma, dissolves. [quartz (silica) also linked with sand under sedimentary rock below.]

[These are] intrusions into sedimentaries.

Basic (igneous) rock is basalt, and volcanic rock is lava.

Sedimentary rock can be divided into sand, lime pptns [precipitations] in water, and mud. Sand becomes sandstone, which becomes quartzite. Lime pptns in water becomes limestone, and then marble. Mud becomes shales and then schists. [Shales are also involved below in the discussion of oil.]

Organic Remains are of two kinds: oil and coal. Oil, like mud, becomes shales and then schists. Alternatively it goes through the following process: [1] ring [cpns or cpds], asphalt residue, [2] straight chains, wax residue, [3] breakdown of chains, [4] if propane, butane, etc, it becomes ("wet") [oil], or natural gas; if only methane it becomes "dry", [that is,] coal.

[15-16]

W [Wed.] 18th [Aug.] Departed Miaotaidze at 6.15am. Miaotaidze is a marvellous place. The temple is dedicated to 留侯 [Liu Hou] Duke [earl?] Liu, great statesman of the Han dynasty, and 老黄石仙 [Lao Huang Shixian] who instructed him. Lovely beds. There were many Taoist priests, and a marvellous pavilion built on a limestone pinnacle, but yet in the valley (gu shen). Gallery by the river.

Yesterday's: lunch 150, dinner 150. CTS in Taoist temple: 65 + 65 + 40 = 170, + 35 tip = 205. Eggs 55, JN cig 25.

About 160km from Miaotaidze there is a pass immediately afterwards going down into the valley. The road then goes up to 酒奠梁 Chiudienliang Pass (Libation Pass). At about 115km had breakfast. Lovely view.

Arrived at Shuangshipu at 9.45am, at the 0 km mark. Sunny. Traffic control station.

Memory: all along the road north of Baocheng and especially north of Miaotaidze the road was very badly eroded by rain water streams. Tell Wong Wen-Hao and Tseng Yang-Fu.

I noted that the main leaf of the rear left spring was broken, must have happened at Wukuanho. Found that Tai had gone on to Baochi. [Was] advised to try Tienshui road by an officer, but [advised] against it by the Chief of Hsibei Road Administration and by Sergeant Major.

Went to Kansu iokuangchu [oil administration] and got 80 gallons on our two coupons (40 for Shuangshipu and 40 for Tienshui) and a letter [for alcohol] to the people at Dinghsi after Huadjialing if we need it. Thus we now have about 35 of previous alcohol/gas mixture, not used because our alcohol took us on; and 80 of Kansu gasoline; [for a total of] 115 to do the Sian detour, i.e., 1150 km. But we will use the railway.

Engine oil position: Kansu petrol began at km 86, before Baocheng. Therefore, to Baocheng from there was 86. From Baocheng to Hanchung and back was 30. From Baocheng to Shuangshipu was (240 105 =) 135. [This makes a total of] 251. From Shuangshipu to Niangniangba is 187, [which brings it to] 438.

[17]

Notice board at Shuangshipu

To Tienshui Weihsien	229 79	[Straight Ahead]
To Baochi Liangping	101 296	[Turn Right]
To Miaotaidze Hanchung	61 154	[Back the other way]

Searched for Rewi Alley at the Baillie School (Technical training schools, of which there are 3: at Shuangshihpu, Chengtu and Lanchow), behind the gasworks, and at his semi-cave cottage but he had gone to bathe. Eric

Westwood 魏西林 went to get him from swimming. Later, lunch [with?] George Hogg 167 (Mem: potato-toffee dish), melon 63. JN matches & cigs. 50, EB kettle 150. [After lunch,] visited the cotton spinning coop [cooperatives] (in assembly) and the machine shop coop.

Had high tea with RA and GH [George Hogg] at his cave house (corn-on-the-cob, honey, tabing, eggs, tomatoes and coffee). Afterwards, we went to the Baillie School meeting [where we sang] many folksongs in the twilight [and hauled] down the flag - very lovely. The school has a very good machine shop and textile shop.

Meanwhile, the spring was being mended, but was not done by nightfall.

|18|

0 [Thurs.] 19th [Aug.] at Shuangshihpu. Bathed in the river and had breakfast of eggs 30 and shaobing 30. Shopping [for] rope, etc. 50. [We had an] endless argument as to which road to take. Corrected proof all morning. Lunch with RA and GH as guests, 310. Repairs to spring (not counting men's time fixing), 400.

F [Fri.] 20th [Aug.] dep. Shuangshihpu at 6.20am. CIC [Chinese Industrial Cooperatives] hostel bill 368. 409 km, 405 km, etc. At 396km reached ShensiKansu border. First [went] through the gorges with huge cliffs, then up a side valley [diagram, on which he marks the spot of Chang Tao-ling's (Taoist) cave]. There were many pien-tao (makeshift roads) as we were driving up the river-bed with the road quite washed away. Then I took over and drove up to the top of the hill. Different hazards [there], such as landslides and narrow way. [Had] breakfast with amazing view of Huihsien mountain range at 384km.

|19-20|

[Interlude:]

A. Summary of Sankuo history

Wei (N), Tsao-Tsao

Han (legitimate) = Shu (W), Liu Bei, Chang Fei, Kuang-Kung [Guan Gong] (Yu) (three brothers who swore under the peach tree), Chu-Ko Liang (their philosopher), took kingdom of Dien (Yunnan) and incorporated it.

Wu (E), Szuma Hsi.

Wei conquered Shu and then....his [Tsao-Tsao's] took over the whole show.

B. List of people at Baillie School

RA's 3 boys

Pan Chan-Yun (Kansu chap)

Sun Wen-Chih (from Honan) good face

Liang Feng-Rjeng [Ren] (from Honan) former child workers,
now in Baillie Schools

C. Summary of current political-military situation

black face	North: Shansi & Shensi, Honan, Shantung, Hopei	Mao
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white face

red	Szechuan & S. Shensi, coming from Chang-an	Chiang
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	Nanking, Yangze Valley	Wang
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|21|

Just before Huihsien, we reached difficult crossing - a sea of mud, the mountains dissolving like dilute brown cream. Rewi paddled and checked it.

Arr. at Huihsien 徽縣 11am, [at the] 330km [mark]. Lunch: RA 128. RA provisions 90, candles 60. Supper: RA 250. Tested river-bed longitudinal crossing after lunch but three trucks were stuck in it and torrents of mud [were] coming down. Photographed wave forms. Returned to Weihsien [sic: Huihsien] and put up at the CIC store. Visited the Honan refugee coop run by Ho Ching-Min 侯敬民 which was very fine. Visited the Mosque (town is predominantly Moslem 回教) at the eastern gate outside, very beautiful. Must be most easterly mosque in Central Asia, called 清真寺. JN padlock 65, cigs 50.

[22]

[Diagram: drawing of mosque and surroundings]:

Mosque hall, garden, terrace with old men sitting on it, ablution courtyard, road, spirit wall; tower of three stories (muezzin) in Chinese style with Arabic as well as Chinese inscriptions. This included arch in lower story. Mullah's house (Ahun's). His ablution pavilion. Bamboo shaped bricks in arches. Brick panels of [rhomb]-shaped bricks.

Trees very pretty, the whole well-painted and kept up. Everybody very friendly and obviously proud to be Moslems.

[23]

Sat. 21st [Aug.] dep. Huihsien at 11am. Breakfast at CIC place. Examined river-bed thoroughly. More rope 110, RA bread 50, servant 100, meat, etc. 100. Between 徽縣 [Huixian] and Chianglo chen 江洛鎮 [Jiangluochen] were innumerable pientao and driving [was] the most difficult. Got across the first river OK; [we were] the first truck through. RA lunch 201, JN ginseng remedies 35. Left 2pm.

arr. at Niangniangba ([in] 娘娘坝 [the character 坝 is] really [the character] 壩 - Lord of the Marches) at 5.45pm. [We were] 111km from Huihsien, 69 km from Chianglo[chen] (291 69 = 222km), 41 km from Tianshui (Shuangshipu 409 222 = 187). [Had a] nice supper in [a] very small inn with a view of the hills all around. Slept on campbeds in stable with travelling pig. HY [Liao Hungying] and TH [Chen Zixin] [slept] on [the] kang [a brick bed heated underneath]. [24] Engine oil completely changed, foot-brake tightened.

Sun. 22nd [Aug.] dep. Niangniangba at 6.30am. RA inn 50. 222 41 = 181 km. Arrived at Tianshui 8.10am. V. [veritable?] NW loess at last. Remarkable fivefold walled city Fu Hsi Temple part, Tartar part [2], Chinese part[s], and Huidze part. Went to coop shop, then [had] curious meal of excellent tomato omelette and sausage. Brunch 175 + 5 tip = 180. [Bought] Six chapters of a floating life [浮生六記] 30 [?] HHT.

Climbed an enormous pass with very steep grades out of the Tianshui valley, in doing so the cylinder head gasket bust, but power not much affected. Down to a low valley and up again an equally long and steep hill through loess farmlands, then along an exhilarating long ridge at about 5000ft. with periodical 壩 forts with mud walls, till [we went] down again [here skips over interlude (below) to p. 27] at last and arrived at 泰安 [Tai'an] at 1pm.

[25-26]

[Interlude political-administrative situation]

Gps [groups or political cliques in power]:

PS [Political Science Group or 政學], "CC" [the 'CC' Clique], and "Blueshirt".

A. PS include WWH [Weng Wenhao] and CCC [Qian Changzhao] (TVS) [T.V. Soong/Song Ziwen]: [those who] always were for capitalist enterprise. NRC [is] only a wartime measure. [This group is] pro Japanese because the Japanese have understood the techniques of industrialisation. They didn't want war, [but] thought that China needed the Japanese in Manchuria. They are also pro-Western on account of science and industry.

This includes HYC [He Yinquin] and YTW [Yu Dawei], all the technicians, many provincial governors, most of the older ambassadors.

B. "CC": No technicians, many school and university politic[ians], anti-Western and pro-Japanese tendencies. CLF [Chen Lifu] and CKF [Chen Guofu]: ties with CCH [Zhu Jiahua] and younger ambassadors (who also have ties to PS). They include HLW [Han Liwu] and WSC [Wang Shijie] ([there was] a kind of split from CC towards PS: CYYdjY [Academic Sinica]. Also ties with Ministry of E[ducation] (and Ministry of Social

Affairs). [Central Political College at] Nanwenchuan & schools of accountancy and teachers, normal training colleges and National Universities (except Lien Ta [Lianda, National Southwest Associated University] and Wuhan [University]). Artificial labour unions. Only a few soldiers. Pro-Japanese because ideologically mediaevalists.

C. "Blueshirt[s]": neither technicians nor academics, but plenty of [soldiers]. YC Ku the only banker, also DL [Dai Li] and the SS [secret police]. [Also known as] "Lan I Fu" [Lan yifu, ie blueshirt], Whangpo [Whampoa Group], Gmo's [Generalissimo's] home [group], Fu Hsing She 復興社 (return to prosperity society), Holl T. [Hollington Tong] and Central Publ. Definitely anti-Japanese (nothing in common [with the Japanese]). Chinese nationalists and imperialists; pro-British and American. [The bankers] have ties with Chingbang [Green Gang] and Hongbang [Red Gang] (secretary of the Chinghongbang control board), esp. CB [Green Gang]. [This is] a means of information and liquidation which the other groups haven't got.

HHK [H.H. Kung, Kong Xiangxi] [holds] aloof from all and controls all banking interests. Methods of recruiting: Through the training classes at Fu Tu Kuan [Futukuan Political Training Institute], Sian Cadre Training School, and San Min Zhu I Youth Corps (mainly): get hold of bad but clever eggs and give them a new start. Get hold of clever science and technology undergraduates and send them to Europe, then give them good jobs (better than would otherwise get).

All this occurs because no real democracy in the place, and [it is] a hangover from control of historic bureaucracy by a few great families. Pt. [Point] is that all this goes down to the most minute officials. Cf. what happened at Chienfotung.

[For the lines JN draws to connect these groups, see images of pp. 25-26]

Memory: Shensi Provincial Government Laboratory very well-equipped. Was at Shuangshipu, but eventually was distributed among a lot of private firms.

[end of interlude]

[27-28]

This nice city was an outpost of Chin Shih Huang Ti [Qin Shi Huangdi, King of the state of Qin (r. 246-221) during the Warring States Period]. [Had] discussion about gasket; decided to go on. Bought marvellous peaches. RA 78 honey, basket 12, tea 10, two cups 26.

Went to the river in flood, had lunch while waiting for it to go down. Then up onto gigantic ridge, engine getting worse all the time. Arrived at Biyudjen village at 6pm. RA bread 30. Kuang Wei got down to the mend as soon as we got there. Found [we had] no cylinder head gasket in the spares. TRIPLE DAMN OLD TAI [Teichman]! Query can patch the blowout? While waiting for the washout ahead, cloudbursts around us all day. Put up in an inn with separate rooms as little houses all around the courtyard. [Diagram on opposite page, p. 28]

Gasket was so bad that much of it must have been done by RAF. Two cylinders out and [two 2's] connecting!

On arrival had wonderful exhibition of RA's ability to contact primitive peasants. His affection for the children; atmosphere changed at once. They thought we were soldiers (cf. Morris tour) and wouldn't pay, but Lao Pan [Laoban 老闆, the proprietor] ([who was from] Kansu himself) explained and we bought wonderful bread rolls. People very poor, smelly, and girl children with bound feet.

Mon. 23rd [Aug.] at Biyudjen. Ed and Kuang Wei at work on the engine at dawn they patched the gasket with RA's aluminium shaving soap case and cork.

RA 35 eggs	55
1 big round gaokwei	30
1 little " "	12
hot water	15
	5
	<hr/>
	117

Sun came out. Nice breakfast. [Diagram of quarters at Biyudjen at the bottom of p. 28 shows the various k'ang (shaded), the main gate, and where each person or group was staying: family; Ed (in the stable?); me [JN], Hsing[-]Tsong and Tzu-Hsin [Chen Zixin]; Hung-Ying; RA and the 3 boys, and Kuang Wei in the car. 天官賜福: "May the heavenly official give blessings".

[29]

[Interlude]

TU [trade union] substitutes:

Ching Bang [the Green Gang]: formerly smugglers and robbers on the Grand Canal. Work with any foreigners who will pay, but strongly anti-foreign. Strong in Shanghai and North, and in Yangtze valley. (Two men on Tai's truck [were members of this group].

Hong Bang [the Red Gang]: Strong elsewhere and overseas, probably KW and Yu [Yu Dexin] [are members]. Helped to form Kuomintang.

Chi Kung Tang [China Zhi Gong Party]: more fraternal, benevolent society, formerly freemasonry, more nationalist, less antiforeign (but how did it get there?)

Ko Lao Hui [Gelaohui] rites: Szechuan and Kansu, Kweichow and Yunnan. Rather rural, eg. Kuanhsun, Chiating. Szechuan gentry and warlords.

Hong Chien: red spears, in Hobei

Hong hudze: red beards: Manchuria
and many smaller ones.

These are family substitutes. What about a production-substitute for the family? eg. guerillas, which have great loyalty.

[end of interlude]

[30]

Went up to see loess fort above village with RA and found Sung [Song Dynasty] pottery shards. River crossing was mended by noon but not the engine.

Mem.: RA wants to get regularly [the periodical] "Industry" [from] Calcutta. The publisher is: Keshub Bhaban, 22RG Kar Road, Calcutta.

RA lunch 30, payment at Inn 40, peaches 22; total = 92.

About 3.30pm the engine was started by running downhill, only just in time before a newly-made ford. Decided to leave, so packed up and [were] away by 4.15pm. Engine at first was pretty good, but quickly lost power and after two fords, came to a standstill in an awful difficult place about 3km away, on a long biantao [biandao, detour] with steep grades at the edge of a precipice. Sky overcast and wind cold. Soon a truck came along with people shouting [31] ta shui [flood], and soon (within five minutes) the river below changed from a small stream to a torrent of mud.

At Bien-Tao. Camped for the night. RA produced coffee, etc., and peaches, [and we] sang songs. JN, HY, HHT, and CTH [Chen Zixin] in the truck, EB [Edward Beltz] beside it, KW in the cab and RA with the 3 boys under it.

Tues. 24th [Aug.] Good night. Sunlight with the dawn. Ed and KW got busy on the engine at 6am, replacing former bust gasket with new one made of two complete layers of canvas from a big kitbag of RA's, cemented around the waterports with water-insoluble cellulose glue and round the cylinders with gasoline-insoluble fish glue. (If this fails, try cardboard or fibre from a suitcase). No trucks at all northbound; yesterday we just missed by five minutes the chance of getting a letter to Huadjialing for [32] old Tai by the truck "Pipes" [drawing of truck] of the Kansu oil administration who'd been just in front of us at the bad ford at Wukuanho. [These were] some southbound trucks, however, who had difficulty in getting past us, and a certain amount of army transport. RA sent the boys to buy food for breakfast. RA 190.

Tried the canvas gasket [it] ran for five minutes and just got us round the corner to a better place on the biantao [biandao, detour], but nbg [no bloody good]. Failed again. Very despondent.

Decided to send some of us to Huadjialing (to catch Tai) or to Lanchow to get a proper gasket. At 10am approx. a northbound army truck went by; HHT and JN jumped on it with only dispatch cases and JN's bedding.

[Below JN starts writing in two columns, left for narrative, right for notes on weather, food expenses, and activities. Resumes original format after 2-3 pages.]

Rode 63km on top of empty petrol drums to Huadjialing, where [33] we arrived at 4pm and spent the night, after one paoma and one wait for a cloudburst flood. Found Tai had left the same day at 6.30am. Left note for folks in case they came on. In camp, wind.

High T (!) 30 matches. (8000 ft. up.) Huadjialing km 526. To Lanchow 187 km, i.e., Lanchow is 713 km. At Huadjialing, the Tienshui road comes down to 0 km.

Wed. 25th [Aug.] dep. Huadjialing. CTS 187. RA food 200. Through the clouds to Dinghsi [and had] bkfst [breakfast], 85. Then an awful trip on top of the petrol drums with tarpaulin over [us] to keep out the rain and intense cold. In camp, rain and wind. People read, Hung-Ying mended. Cf. [34] Top of the pass with Lilska, Jurek, and Dolek. Water from river muddy like coffee. Gantsao lunch 20, fee to driver HHT 500.

arr. [at] Lanchow 3pm. Rickshaw to Lichihshih [guesthouse] 50. Contacted Tai and arranged about a truck of his to come back. Gave away old gasket and bought new one. HHT 2000. Had comic row with Carlberg [sic? Possibly Ernest W. Carlburg]. Stayed at CIM [China Inland Mission]. [Had] supper of lovely honey.

Thurs. 26th [Aug.] dep. Lanchow [at] 6.30am. Food RA 200. [Headed] southwards. Breakfast 10, lunch 100, bread 6, eggs 12; total 128. RA gave 500 to the fund.

[resumes single-column diary format here]

Rejoined the party in the biantao [biandao, detour] at 3.30pm. Kuang Wei and Lao Pan [the proprietor] at once got to work putting in the new (Indian) gasket. (Tai's men wouldn't help; wanted to fix their own brakes). Nice meal of beans, potatoes, gaokwei honey, and peaches (wonderful).

Left quite successfully about 5.30pm and [35] got to Tungwei at sunset with engine running apparently normal.

Fri. 27th [Aug.] dep. Tungwei [at] 7am after cold night in muleteers' inn. RA 120. [After] about 50km thence out of the mist, seen like bright vapour from above as we rose into the sunlight. [I had a] bad toothache again (the other tooth of the two that Agnew fixed now). Driving [was] good.

But about km 25 [there was a] sudden great loss of power and [the truck] stopped. Found that all the oil had run out of the engine, due to side valve cover gasket not fitting and leaking. Put in more [oil], but then about 10km an awful rattling noise developed, which seemed like the transmission, but it continued when the clutch was out and so it must therefore be a worn centre thrust bearing. Either due to the running dry of the oil or to damage [36] when the cylinders filled with water [at the time] when the substitute gaskets were tried (on the strong insistence of Tai's men). Decided to add oil and climb up to Huadjialing. Just made it. Engine could not have gone another foot. Took rooms at CTS [China Travel Service] in Huadjialing, [had] lunch at a Honan restaurant, RA 260. (Lay in bed for 2 hours with toothache but it was no better).

NB: Have now found that the damage is most serious - probably a piston gone as well as the thrust bearing. KW and Ed [Beltz] [are] willing to take the engine apart, but Tai's two men refused to help, saying they must get back to Lanchow, and complained that Tai paid them only \$40 a day, which was not enough for one meal. True, but... KW much happier, but had asked for a rise and will get it.

Very sunny afternoon. Ed's point is that we must know exactly what spare parts are needed, since some may be in Tai's car. So he, KW, and Lao Pan took everything to pieces and stored the parts in room 21 in the back of the hotel.

[37]

Summary of sequence of events:

- 1) Tai takes all cylinder head gaskets and other spare parts

- 2) Tai goes ahead without waiting for us anywhere, either at Shuangshihpu or Huadjialing
- 3) Our cylinder head gasket goes (fault of RAF previous wear?)
- 4) Patching and substitutes ineffectual. Return with new gasket and put it in. Tai's men wouldn't help.
- 5) Side valve cover gasket imperfectly put back. Therefore lost all the oil and the crankcase ran dry. Hence thrust bearing was damaged.
- 6) Added oil, but Tai's men wouldn't help repair it at km 7 and on reaching the top of the hill at Huadjialing, the piston went.
- 7) We wanted to at least ascertain exact ~~cause of~~ damage, but Tai's men wouldn't cooperate, so Ed, KW and Lao Pan [the proprietor] did it.

[38]

NB: On the loess highlands between Tienshui and Lanchow [esp. 5] of Huadjialing. Ed says the whole area should be put under fruit trees, esp. on the lower southern slopes.

Sat. 28th [Aug.] dep. Huadjialing [at] 9:15am.

Kuang Wei money: KW had no advance from [the British] Embassy, so now paid month of Aug. (2000) and from 7th on at 40/day (x 24 = 960), for a total of 2960; made up thus: HY paid 2900, me 50, HHT 10.

Packed all the personal belongings on Tai's truck including the Lanchow microfilms, excluding MoI stuff [Ministry of Industry?] stuff and Lanchow library books. And the engine (to back of the gearbox). [39] CTS Huadjialing rooms, meals, tip and one night of 585; spare parts room. (Offered advance for this but wouldn't take it.)

Got to Dinghsi 定西, "establishing or pacifying the West", at 11.30am. [Had] lunch at the same place as twice before. Memory: lovely rugs (CIC [China Industrial Cooperatives] make many), and pots of flowers everywhere, contrasting with the mudbrick and the smooth, light brown plaster of the houses.

Hsien cities like Tungwei and Dinghsi look like this [diagram of wall, corner towers and gate surrounding city with small suburbs outside]. Lunch 340: 200 paid by me and 140 by HY.

Arr. at Lanchow at 4.30pm. Vain search to find Mr Yang of the NRC [National Resource Commission]. Deposited RA and the 3 boys at the 工合 [Gungho, i.e. the Bailie technical school], and deposited C. Tzu-Hsin [Chen Zixin] and HY at CTS. Got a room for the three: JN, EB, HHT at Lichihshih [guesthouse]. [40] [Had a] heated discussions with Tai and his men (alleged (awful) petrol leak very fishy). Eventually decided to put the repairs in the hands of Induses [= INDUSCO = Gungho] machine shops. Dinner EB, me, and HHT 330 (HY), sweets 80 (HY).

Sun. 29th Aug. at Lanchow. Slept v. [very] well. The three of us got mass of washing off. Bkfst [Breakfast] of fried eggs, toast and jam, and cocoa. [Had an] awful bother to get gasoline. Finally, Ed and HT went and borrowed 3 gallons from the FAU [Friends' Ambulance Unit] chaps, while I did the accounts. Meanwhile, Mr Lin [or Liu?] of Lichihshih got us a chit for five. Got the engine to the Gungho Machine Shop at 11.30am. [The] engineer [was] Liu Hsiao-Yu (S.Y.) 劉孝孺 [Liu Xiaoru].

Examination begun. Gray Peile [of the] FAU advised [us that Liu was the] (best mechanic in [the] NW [Northwest]).

Lunch with RA, but all paid separately, 36.

[41-42]

Epid. Prev. Bureau [Epidemic Prevention Bureau]:

Kuo Yu-Yuing [sic: Yu-Yung] (Albert Kwok) 郭煜榮

Dr. Y. N. Yang (Yang Yung-Nien) 楊永年

Dr. Moody Mêng (Mêng Mu-Ti) 孟目的 (best pharmaceutical Chemist in China)

Dr. Li Wen-ming 李文明?, Director of [Northwest Auxiliary Medical Personnel] Training Institute

Walked back with RA. Got Kazbek Russian cigs 200; owe him 35 for Hamigua.

[Had] tea with EB and [Theodore] Dykstra. Talk with EB: [he] thinks China should not industrialise according to Britain or American history. Britain's stocks of coal and iron are huge, as are the American stocks of coal, iron, and oil in relation to the population. China is not so and its oil [supplies] [are] not hopeful. They have coal

in Manchuria, but not much iron. Therefore China should not lay too much emphasis on heavy industry, but more on consumers' goods. Too much emphasis on it led, in the West, to war perpetually recurring. Cf. Germany had coal without iron, therefore it was necessary [to get it] from Sweden and Lorraine. [It will be] necessary for China to increase its productivity per person and to a less extent per acre, to pay for imports. Fertilisers are therefore essential. (cf. Blewitt) Nitrogen fixation factories [are] essential, and exploitation of the Yunnan phosphatic rock. Waterpower [is needed] for nitrogen fixation, yes, but all the rivers [are] too seasonal in flow. The Mekong, etc., would do.

EB contrib. 5000 to the fund so what he bought now shows as expenses. Campbed 930, [primus?] 500; total 1430. Rickshaw fare for petrol HHT 88.

Dinner with EB, Dykstra and RA. I paid 300. [43] Dykstra met people at the Szechuan Agricultural Export Station whowere breeding potatoes with complete absence of attention to their virus diseases which were ruining them. RA [talked] on sheep [viruses which were] awfully bad in Sikang [Province]. At Sungpan an Animal Husbandry Institute was doing [researching] mostly horse diseases. RA had prepared a scheme for shepherding training but it was never taken up. '[Ralph W.] Phillips too'. [written in black ink]

Mon. 30th [Aug.] At Lanchow. [At] 8[am] [we] had a conference about the engine. Rickshaws HHT 105. At 10am [went] with Tai and Lü (of the Waidjiaopu [Foreign Affairs Dept.], 呂同齋) to [see] Mr Yang (of the NRC) [likely Yang Gongzhao] where we mets lots of people and arranged [a] schedule. The spare parts [are] to come from Mr Hsia [Xia Anshi]. Had lunch with EB and HHT, 263; petrol man rickshaw 80.

At 2.30pm [saw] the Kansu oil man, telegraphed Sun [Sun Meilian?] for authorisation to transport [the] engine. [44] From 5 to 9 pm was with Yang Yung-Nien and Meng Mu-Ti at the Epid. Prev. Bur. Supr [Supper] of bindze, and drunk melon (chuigua [zuigua?]) in my room.

Tues. 31st. at Lanchow. HY and THS to breakfast; three breakfasts at Lichihshih, 327. Called with Yuan Han-Ching 袁翰青 of the Kansu Science Institute and Chang Hsing-Yao 張星堯, Lü's assistant at the Waidjiaobu, on Governor Ku Cheng-Lun 谷正倫, on the Commissioner of Education Chen [sic: Cheng] Tung-Ho 鄭通和, on the Kuomintang Party Secretary Yang of LSE [London School of Economics?]. The Mayor (wasn't in) and Chu Sho-Liang (War Zone Commissioner) wasn't well. Lunch [for] all five of us, paid by T-H [Chen Zixin]. At 2pm [went] to Kansu Science Institute with HC Yuan [Yuan Hanqing].

At 6pm [had] dinner at General Ho's [Ho Ching-chun, head of Northwest Highway Administration]. [45] Met Bernhardt, a Dutch-American transportation engineer. Paid for 4 nights at Lichihshih [guesthouse], 400.

Wed. 1st. Sept. At Lanchow. [Went] to the machine works (NRC), the Medical Training Institute (WWS [Weishengshu]), and the hospital (WWS). Had an endless lunch at Yang Yung-Nien's. [Then went on to the] dry battery factory (NRC), the Transport Department repair shops (NRC), the flour mill and the wool spinning and weaving mill.

Laundry (for three of us) 200. Honey 80, cakes etc. 73, repair of shoes 200.

[46]

Thurs. 2nd [Sept.]

At Lanchow. [Went] to power station (NRC). Lunched with Hsia An-Shih at the machine works and [went] out to see the new site with tunnels in the hills, etc. Got a conrod (connecting rod for truck) at last and took Mr Liu [Hsiao-Yu] to dinner with the Governor. (Tai, old Taylor, old Collins, Liberty, EB, Lü, Comm. of Education, etc.)

Fri. 3rd [Sept.] At Lanchow. Wrote a letter to the Ambassador in the morning. [Went to the] bank and got out 20,000 yuan. Lunched with the Commissioner of Education and the educationalists. [At] 3pm [gave a] lecture to 2000 students and schoolboys. [Bought a] second-hand sheepskin coat for 1000 yuan! Payment for spare conrod, 5000. Had tea with Hung Ying; [then] visited the CIM [China Inland Mission] hospital -- very good indeed (mirrors in the operating theatre [providing] light). [Had] supper and [spent the] evening with the Hoyts.

[47]

Sat. 4th Sept. Rickshaw: me 110, HHT 20. Agreed with Arthur of the FAU [Friends' Ambulance Unit] [that he should] go to Huadjialing and tow the truck in. HHT to go with him, and Gray Peile to preside. [It would be on a] cost and expenses basis, 10,000 to be advanced, and 53 gals petrol bought. Went with HHT to see about this; it was fixed. Saw the coop enterprises, weaving, leather, hostel etc.

NB: Mr Wei 魏玉麟 [Wei Yulin], chairman of the Coop. Federation, [is] an illiterate, but obv. v. [obviously very] intelligent, textile worked [sic] (photo). Went with Chang Kuan-Lien 張官廉 ([his name means] 'honest official'), Principal of Baillie (Technical) school, across the river on a raft with EB, HY, and HHT and had lunch there. [Met] Li Chan-Yao 李振姚 (from Java) [who] was teaching engineering there. [There were] good drawings on the white walls, as well as maps and [geometric] and mechanical diagrams. There were two big boys from the Tibetan border looking at them, [48] and a Chinese-Tibetan girl doing the accounts. Later [took a] walk through miles and miles of mud to the Taylors [house] for tea and to the Bairns father[s] for dinner. 2094 paid to HY in settlement of joint expenses so far.

Sun. 5th [Sept.] 10,000 given to HHT for the man Arthur and Gray Peile. Settled accounts with HHT: meals by himself 342, official business rickshaws 320, for a total of 662. Gave him 680, [he] owes 18.

Ed [went] off with old Tai to the north-west alone. HHT [went] off with the FAU to the south-east to tow in the truck. 6784 to be sent to Mr. Yang for the petrol for the Huadjialing tow on Monday. Had a haircut (15), [bought] peaches 9, cigarettes 38. Wrote Δ [Dorothy Needham] and other letters. [Attended a] British returned students' tea -- with Chang Cha-Li (surgeon), Li P'ei-Ling (pathologist), Hu Hsiang-Bi (vet) and Yu Kuang-Yuen (pharmacologist). Took photo. HY failed to turn up. No supper.

[49]

[Interlude]

[A] List of things seen at Lanchow:

Nat. NW Epidemic Prevention Bureau (WSS) [Weishengshu, the National Health Administration]
 Nat. NW Medical Personnel Training Institute (WSS)
 Nat. NW Hospital (WSS)
 Pharm. Factory starting (Meng Mu-Ti, WSS)
 Kansu Science Institute (B of Trustees)
 Lanchow Machine Works (NRC)
 Elec. Manufacturing Works (NRC)
 Electric Power Station (NRC)
 Yung-Hsin Wool Mill (KKTCC)
 Wool Washing Plant
 Flour Mill (KKTCC)
 Baillie School and Coops (CIC)
 Mission Hospital (CIM)

[B] Met Presidents of:

NW Medical School
 Nat NW Polytechnical School
 Nat. NW Teachers' Training College
 Kansu College

[50]

[C] Rough mileages (km)

	estim'd [estimated]	actual	total
Chungking-Chengtu		450	
Chengtu-Kuanyuen		355	355
Kuanyuen-Tienschui		573	
Tienschui-Lanchow		369	
		<hr/>	
		1747	1746 1747
Lanchow-Yumen		849	
Yumen-Tunhuang		310	
		<hr/>	
		1159	1159
back to Lanchow		1159	1159
		<hr/>	
		4065	
Lanchow-Sian-Baochi-Shuangshihpu		1071	

Shuangshihpu-Kuangyuen	342	
	<u>1413</u>	1413
Kuangyuen-Chengtu	355	
Chengtu-Chungking	450	
	<u>805</u>	805
	<u>6283</u>	

[End of interlude]
|51-52|

Mon. 6th [Sept.] Heavy rain in the night. Alone at Lichih Shih [guesthouse]. Wrote letters to Mr Hsia at the Machine Works. Got book list, paid 1000 for cork sheets, secured Tan's serv-ices. [Went] to the bank and got out 20,000 more [yuan]. Rickshaw 60. At Lichihshih sealed the letter to the Embassy. [Went] to Mr Yang's (NRC) and left 6784 yuan as petrol money with Wang's secretary. [Then went] to the Ta Tong Fandien [restaurant] (Rickshaw, 100) and lunched with Rewi.

CIC [China Industrial Cooperatives] shop: [bought] blanket brown/green 1300. [Went] to GPO [and sent the] Embassy packet, 48. [Bought] USSR cigarettes and matches 220. At Lichihshih transferred Hoyt honey [i.e., dropped off honey from the Hoyts], and [went] to the CIM [China Inland Mission] Hospital with Rewi. [Had] lovely tea and cake with the McFarland's (from New Zealand) and Amber Van. The weather [was] clearing somewhat. [Went] back to the Lichihshih. [Had] Hung Ying to supper and then [went] out to [a] YMCA meeting.

At 2.55am an extraordinary, frightening dream woke me up. I was with Δ [Dorothy] on a long railway station platform, like Cambridge but curved. I bought two flimsy green tickets from guichet [ticket office] which was almost blocked by a noticeboard. Then an engine flashed past, colliding with some vehicle at the north end of the platform, throwing out a woman's body which splashed. Pause. Seven other women rose up from the ground nearby (one from actually between the rails) and rushed, frightened, away. Tried to find station-master but desisted as Δ said lots of people had seen it. [There was a] rush of military officers to the spot. [Was I worried about] robbers ([because of the] 10,000 in my bag)? Got up and locked the windows and door. [Was it a necessity to urinate? did so. Or was it a petrol drum expanding like a bomb outside? Dream very vivid and startling.

[Before this I] first dreamt [that I] had lost the Readership and [was] miserable; by a fixup when [it] should have been renewed. [I was] arguing with the lab people. [Was this because of a] fear of AVH [A.V. Hill] stopping my coming back? Content and Form [of dream]. [Was it my] anxie-ties regarding air travel [?] [replaying the scene of] our truck on the bientao [biandao, detour] [?] [Was there some] correspondence to danger in England? a premonition of danger? [It was] not a compulsion like the Green Street dream.

Tues. 7th [Sept.] Slept latish in spite of interruptions. Gave bulbs to Liu Kuo-Chün's man. Stayed in bed till 11am. Wrote [Wu] Su-Hsuen. Lunched with Hung Ying, 111. Wrote more, had Hung Ying to tea, bringing moon cakes, date cake, peaches and sachimagao cake as well as my sb belt. Tried it on, and the changgua (chinese gown) and magua [mandarin jacket worn over a gown] too, which Hung Ying refolded. Also took my socks to darn! Visited the city god's temple where I bought some very fine Moslem bread, 4. [Had] dinner at a Moslem restaurant, 130. HHT got back. The towing job was successful. Cigs 37.

Wed. 8th [Sept.] Breakfasts up to date, 561. HT's accounts for 5th, 6th, and 7th: meals 423, telegram 50, rooms 430 (including rent of spare parts room for eleven days), rick-shaws 45. Total 948, less 18. Paid him 930. To KW for clothes 2000, spoons 21, rickshaws 40. |53| Visited machine shop -- transferred load. [Went] to lunch with Chang Kuan-Lien. Rickshaw 20, tea 55, sb belt 180, brass washbasin 200, cooking pan 260. [Had] dinner with Lowdermilk [a technical expert in oil and drilling] and Feng Chao-Ling at a Moslem restaurant, 171.

Thurs. 9th [Sept.] 2000 yuan given to HT for buying a box of spanners, a funnel, etc. Accounts with the man Arthur: got back 6413, so towing expenses were 3587. Set of box spanners 800, wrenches 600, patching of canvas 170, lift-pump 160, funnel 180, screwdriver 200. [Total] 2110. With HY and HT to lunch at the Moslem restaurant, 188. Decided to make khaki wool trousers after all because [my] tooth ached when I wore shorts this morning. Bought [some] Kansu stuff, greenish, [for] 960, and took it to the tailor's. Yuehbing for tea 88, cigs 35, Shaobing 4. |54| [Went] to dinner with the Yuans' (Science Institute) 家 [at their house]. HY and HT [went to the] 防疫處 [Epidemic Prevention Bureau].

Fri. 10th [Sept.] [The] milk bill [was] 10/person/day, 285. Rickshaws 60, cap 150! [Had] lunch with HY, 217. [Sent] telegram to the Embassy, 96. Bought Pipit [Dorothy Needham] a gourd of Lanchow (20) and a silver Lanchow child's padlock (330). Mooncakes 50, ear cleaners 10, needle cases 6, aluminium (Japanese plane) seal for me, 20; [and the same] for HHT's birthday, 20. Tea at Lan Yuen 25, cigarettes 35, bread for supper 8, peaches for supper 6. [Went to the] City god's temple with Hung Ying.

Sat. 11th [Sept.] [Had] lunch with HY and HT, 135 (chamien). [Bought] rubber bands 30, notepaper 45, broadsheets 10, darning wool 13. [Sent] Embassy packet, 18. [Had] wine and biscuits with Bishop Buddenbrock and his merry men, and Collins. [Had] supper with the Taylors and Chang Kuan-Lien. [55]

Sun. 12th [Sept.] Bkfst [Breakfasts] 264, mooncake 28, cigs. 38, bath money 12, laundry 265, seals carving 72, trousers 250, pipe 50, bingdze 8. [Went] up to the Buddhist temple above the bridge with HY, [having been] invited up by Major Li (of the AA [Anti-aircraft]). [There was a] pagoda and little temples all the way up, with scenes of judgement day.

Mon. 13th [Sept.] [Did the] accounts with HT: [we have an] excess of tools. Over 2000 given on 9th, 110; meals 365, rickshaw fares 195. Finished correcting proofs of HooS ['History Is on Our Side']. Decided to send HT to CK [Chung-king] by plane on our return from Yumen. HMA 6.

Lunch with HY, HT, and RA, 260. [Went to see] Mr Hsia regarding [getting a] mechanic to go with us to Yumen and back: [took] sugar plums to Mrs Hsia. [Bought] seal for [Walter] Simon and box, 60. Called on Liu Kuo-Chün at Hsi Bei [56] Tu Shu Kuan [Northwest Library] at the old Pusa Miao [Buddhist temple] with (Tang?) Ming paintings.

Dinner with E. E. Rice, the new US Consul, at the Moslem restaurant. (Wore sb belt.)

Tues. 14th Sept. 中秋 [Moon Festival] Went out to the Taylors' and gave them some sugar. Read at the German Roman Catholic Mission library all day. Lunched with Collins, [had] tea with the Taylors and supper with Hung Ying at Chang Kuan-Lien's. [Today is the] Moon Festival -- [had] yuehbing (moon cakes) and fruit, incense, crackers, with four nice children and a fine old lao taitai [old lady]. Cigs 38, cigars 20. [John] Blofeld's [British Councillor Attache] telegram came from the Embassy.

Wed. 15th [Sept.] Visited Mr Liu [who said that] the truck is pretty well reassembled. Rickshaw 30, cigs 40. Booked HT's air-passage and ordered visiting cards for both, 100. Paper 23. Paid 100 for him for aspirin. Called on Chang Hsing-I [sic: Hsin-I] 張心一, Commissioner of Reconstruction for Kansu. He had two points: (1) [He] wanted methods for detecting underground water in the corridor and around it (including designs for windmills), and (2) [he wanted] methods for the utilisation of Yumen residues. [57]

Lunched with HY, HT, and RA, 185. [Went] to Mr Liu's. Hope for a road test [for the truck] tomorrow afternoon. [Had] 40 winks with HY. [Had] tea with Lan Yuen, 35. [Bought] seal for Simon 36, bread 8, fruit 12, potatoes 3. [Had] supper in with Hung Ying, and translated 'Meng Chiang Nu'.

Thurs. 16th [Sept.] Engine test OK. Brake fluid 1000 and distilled water 100. [Took] rickshaws to Mr. Lu Tong-Lun and back to arrange about HT's flight, 120; rickshaws 20, 30, 20. Lunch 35, yuehbing 200. Called on Mr Yang of the NRC. Kerosene cans 110, kerosene 100. [Had] dinner with HY and HT, 135. [Had] hoped to do the road test of the car today, but could not. [Have fixed it for] tomorrow at 1.30pm.

Fri. 17th [Sept.] Packed up. Went to bank and got out 30,000 [yuan]. Said we want 15,000 at Suchow and increase of letter of credit coming.

[58]

工合 [Gungho] machine shops	
paid to Mr. Liu	14,048
Lichihshih rooms, final	
payment	1428
Breakfasts, final payment	330
Laundry, final payment	117
Loan to HY on account	
future salary	3000
	<hr/>
	18,923

30,000 - 18,923 = 11,077

of which allotted for [but] now have in hand:

road expenses Yumen & back	6,000
HT Sept. salary	3,000
left over extra	2,077
plus in hand before going to the bank	3,400

Expenses today:

Dinner HY and KW	165
Man with broken rickshaw	300
Red ink for my seals	10
Toothpaste	75
Padlock for car	50

[Had] tea with HY and RA at HY's. [At] 5pm, [we] tested the car with Mr Liu [and it was] OK. Carted the scientific stuff from the Taylors' to Baillie School. [Had] dinner with HY and KW.

[59]

HT's account:

meals	376
rickshaw fares	165
postage	10
	<hr/>
	551
less (for aspirin)	100 (pd by me)
	<hr/>
	451

Sat. 18th [Sept.] dep. Lanchow. Up at 6am. Packed [everything] onto the truck and [went] to Mr Liu's to have the bonnet, etc. put on. [Had] breakfast alone with HY at her place on the Hoytes' [sic: Hoyts'] bread and honey. Thought about Ringstead Mill and John C.: poems ex-changed.

Left a tip at Lichihshih [guesthouse] 150, milk 88. Picked up RA and 2 boys, and left about 10am. Took on petrol at 十里店 ['Ten Mile Inn', the name of a village] (Mr. Tan Chi-Fei 譚其飛 [Tan Qifei], manager), but the engine [was] not going well -- no power; feed or ignition wrong somewhere. At 19km, [we arrived at] An Ning Bao 安寧堡. The scenery [was] very like California, with peach trees and many Chinese date trees along the old Great Wall. [drawing of trees and the wall] The land is dry and burnt. [60] Boys' names: Sun Kuang-chun 孫光俊 [Sun Guangjun] from Honan, and Wang Wan-Shun 王萬盛 [Wang Wansheng] from Kansu. The mechanic from Mr. Hsia's was Yu Hsin-yung 余新榮 [Yu Xinyong].

Along the Huang Ho Valleys [Yello River valleys], the loess is denuded showing slanting strata of red conglomerate. [Made] many stops due to ignition trouble, not mag. [magnito, i.e., something stopping the spark]. Finally, KW and Y [Yu Xinyong, Mr Hsia's mechanic] made all six cylinders fire by making a spark gap outside the plugs. Got into Ho Ko 河口 [Hekou] about 5pm, only 48km from Lanchow and 68km from Yungteng. The control station was quickly passed through. [Had] supper at a tiny inn. [Had a] lovely bathe in the river at twilight. Lost Rewi's soap. Changed [the camera] film in the dark and ate [one of] HY's yuehbing as I had not enjoyed supper much. Slept in the inn, as the new bus station was thought dangerous in this wild country. Supper RA 159, sleeping and breakfast 120.

[61-62]

Sun. 19th Sept. dep. Ho Ko. [Had a] comfortable night under my beautiful CIC [China Industrial Cooperatives] blanket. Cigs 30. 起來 [Got up] at 6am. [Had] breakfast of coffee, bread and honey. Off at 7am. The engine [was] now pulling extremely well. [We went] up a landscape of lovely pastel-coloured red/grey/blue/green valley and hills [along a] tributary of the Huang Ho [Yellow River].

Passed many columns of northbound Szechuanese tommies [= foot soldiers] going to Sinkiang to be out of reach of the Szechuanese warlords and to enforce the central government there (not likely in view of SST untrained army). Plenty of 7-5's [kind of cannon] too. [There were] many children -- boys, very young -- trudging along, from 12 [years old] upwards. RA [gave a] descant on this: Maladministration. Some in the "death squads" [were] tottering along behind. (88 died in one night once at Shuangshihpu).

At Hongchengze 紅城子 [Hongchengzi] we saw a lovely rustic Buddhist priory with half a dozen monks and their Buhne [platforms to speak from] for New Year plays, with RA. Arrived at Yung Teng 永登 [Yongdeng] at 10am.

[Distance markers?]

Lanchow -----> 112

161 <----- Wuwei 武威 (Liangchow 涼州 [Liangzhou])

- 397 <----- Changyeh 張掖 [Zhangye] Ganchow 甘州 [Ganzhou]
 ('night support', 'imperial concubine')
- 624 <----- Chiuchuan 酒泉 [Jiuquan] (Suchow 肅州 [Suzhou])
- 906 <----- Anhsi 安西 [Anxi] (Guachow 瓜洲 [Guazhou])
- 1064 <----- Chingchingchia 捏捏峽 [sic: 星星峽? Xingxingxia] (city of melons, Sinkiang border)
 Tunhuang 敦煌 [Dunhuang] (Shachow 沙洲 [Shazhou], 'sand city')

Brunch 155. Rebel soldiers [who were] being taken to Lanchow to be shot were brought in. Now loess ending. Tibetan women didn't want to be photographed.

At 1pm, [at the] 134km [mark], met Ed B on a Kansu oil truck stuck momentarily, southbound. [Had a] nice talk. [He] expressed many of his opinions such as the possibilities in the Yumen oilfield: 'only one profile known, and that not fully', [so] more borings wanted. There was a big 中美 [ZhongMei, Chinese-American] muddle regarding distilling and cracking apparatus; they sent the former when the latter is wanted. Ed paid us for the first week in Lanchow. His share of expenses of us three was 730.

At 2pm [we made] another stop to fix plugs. At 3pm, [at the] 175km [mark], [we] stopped to fill the petrol tank, i.e., [we have gone] 127 km since last fill. Therefore, if [we are getting] 10 km/gal, the tank holds 13 gals, doubt [it holds] 15. At the 163km [mark] [we had our] first sight of a very high serrated ridge on the left, the first part of the Nan Shan [Southern Mountains] (Richtofen [sic: Richthofen] Range) -- fine! [It is] high grass-land like New Zealand or Scotland with many sheep. [There were] tough little shepherd boys [63] with fur cloaks and not much else. The road [is] always accompanied by the remains of the Great Wall and its towers on the right. A thunder-storm [was occurring] over the Chilienshan 祁連山 [Qilianshan, Qilian] part of Nan Shan -- [it was] very impressive.

[We reached] Wushakuan 烏沙關 [Wushaguan], Black Crow Sand Pass, at 179km. [Then we went] down to Anyuen 安遠 village where we met an Eaton [educated] CIM [China Inland Mission] man from Liangchow and had tea and bread and honey, while Yu's master-mechanic friend pounced on our magneto and fixed it by retarding the spark so that pinking occurred, just as happened between Kuangyuen and Tienshui.

Reached Kulang 古浪 [Gulang] about 6pm at the foot of the valley. Engine now running perfectly normally with full power. Decided to go on 60km from this inhospitable place; I drove on through the twilight, across the blasted heath. At km 253 the GASKET blew out! [64] [We had a] hurried conference in view of night, bandits, etc. [and we] decided to push on. Reached Liangchow (Wuwei) all right in the dark (headlights [were] very good - the Union Jack was pretty in their light). Got into a mass of trucks and drivers and put up at a very unpleasant place - 'sleeping in a public lavatory with cocks crowing under the bed'. Dinner 200, [paid by] me.

Mon. 20th [Sept.] dep. Liangchow. Breakfast etc., [paid by] me 50. [We were] out of the peach area, but the walnuts and apples were good. Saw a 'trachoma squad' of Szechuanese soldiers -- [like the] blind leading the blind. RA saw a pathetic sight: [there were] more rebel soldiers and a tall country girl brought a bundle for one of them. [She was] not allowed to give it, and went off weeping after having been struck] with a guard's rifle.

KW and YHT [Yu] worked on the engine at dawn. [Bought] Soviet soap for RA, me 80. The shops [are] all chock full of Japanese products (textiles, soap, medicines, porcelain, and all [kinds of] consumer goods). To prevent [stop] the Japanese buying wool [elsewhere], [they are] manufacturing the stuff here -- [this] could easily be done -- the CIC [China Industrial Cooperatives] could do it. [There is] more Japanese [stuff] here than in any other city [I've] seen -- ([it] comes over the desert). [There are] no Russian goods, or hardly any left.

Got away at 10.30am. [65-66] [Our] trouble [was] endless all morning with the ignition -- [it] wouldn't pull. [Everyone's] spirits [were] very low. [We] lost a lot of time. Passed a village with Kuei Kou Lou at 1pm. At 297km (297 - 175 = 122, [compared to] 127 last time), [we] had to fill up with petrol. At Kan-Hsin 甘新 [GanXin, i.e. Gansu-Xinjiang] Highway road post, [there were] lovely flowers.

At 3.15pm, at the 343 km mark, [we reached] Yungchang 永昌 [Yongchang] (343 - 273 = 70 km done today). [There was] nothing but a walled city and a bus station -- very inhospitable. The next place is Shantan, 106km on. To go on or not to go on? Yes [We decided we would.] The engine [was] doing much better. [We] did the distance in two and a quarter hours (from 3.30 to 5.45), i.e., averaging about 50km/hr through wild moor-land, high backed by barren hills. After 390 km, over the pass, I had to hold her down to 45mph. Saw [our] first camel caravan.

At 446km 山丹 [Shandan]! An oasis beside the Great Wall, with the mountain, low but rugged and beautiful, rising up outside the Wall to the north-east. The town has city walls. Went in and found the loveliest spacious place, [with] lovely architecture, huge trees, and a delightful old-fashioned, nearly empty inn [called] 三義 [San Yi]. Dinner 190 RA. Excellent bingdze; bread RA 40.

Tues. 21st [Sept.] dep. ShanTan. Inn RA 50, cigs 40. [Took a] walk round the town; [it was] very empty, [with] the wonderful snow-covered Nan Shan to the south-west, and Cinnabar Mountains to the north-east. The people are poor, as wool, the main produce, [is] all going away, probably to the Japanese, and cotton goods are coming all the way from Shanghai for the people. RA says that wool and other local industries (coops) [are] urgently necessary here. Saw merchants' warehouses for the now decayed Sinkiang trade, (cf. LW'OW!) and photographed [them]. Saw goatshair sacking fibre being made, and photographed [it]. [There was] a very nice Taoist temple pailou [pagoda] and a municipal buhne, [with] dagoba in the distance.

The truck [is] OK. First [there was] barren moorland along the Great Wall, then the Ganchow oasis plain with rice cultivation. |67| At 10.15am we arrived at Ganchow (Chan-gyeh), [which is] at 508 km mark.

Mem: The bad thing about the hsien magistrate system is [that persons occupying official positions are] so fre-quentlly changed; each [post is] a stepping-stone to higher more wealthy ones. However poor the place, they can make money on it.

The city [is] not very interesting but large. [Bought] a USSR (red, blue) pencil, 25. Lunch me 200. Passed through first dunes of the Gobi [desert]. On the right hand side, the hills fade out, while the snowy mountains on the left keep on. Passed many battalions of well-equipped troops going south-east and also other well-trained (prob. Sink-iang) troops in trucks. From km 560 to 580 the road [was] very bad.

At km 588 we arrived at Gaotai junction 高台 [Gaotai]. Off to the city itself, some 20 li [Chinese miles] toward the desert, [there is a] very fertile irrigated region. [It is] a nice town with camels and empty barracks. [We went] back to the New Life Movement Hostel at the junction -- [it was] very like the fort at Dubia [Dubai?] in southern Arabia. RA had a bath in [W.V.] Blewitt's [canvas] bath. |68|

Wed. 22nd [Sept.] dep. Gaotai Junction. Hostel (five dinners, three beds) 275 RA. Reached the 600km post at 8.30am, and the 700km post at 11.45am, so [it took] three and a quarter hours. [The scenery is] just desert scrub, occasional camels, horses, peasants, etc. A sandstorm [swept up which was] bad at first (黃風 [yellow wind] or 黑風 [black wind]), later clearing and visibility improving with rainclouds above. The average speed [was] 29km/hr because [of the] occasional inhabited areas with irrigation ditches and humps. Also in the desert [there are] often biendaos due to wild, flat, broad, dry streams. The sky [was] clearing over Suchow and [we] arrived there about 1pm.

[Went to] the Kansu Oil Administration depot west of the city [where we] dealt with the petrol first. Then [went] in to the NLM [New Life Movement] Hostel. [This is] a romantically northern city [with] everything a sand-colour outside. The drum tower [is] very fine in the centre of the city. The NLMH [New Life Movement Hostel] [is] in the Eastern suburb.

Lunch at the NLMH [New Life Movement Hostel] was unexpectedly good, with spoons from Leningrad. [Went] to the bank and got \$10,000 in a block cheque for the oilfield and 5,000 cash. The [bank] manager was Chin Mo-Ching 金鶴鳴 [Jin Heming]. |69-70| [Went] to Kansu Oil Administration offices. [They agreed to] telephone the road guards tomorrow. The office superintendent was Chang Chiung-Ta 張君達 [Zhang Junda].

Soviet pencils	45
" fish for the stores	90
" writing pad	80
" matches	100
" 3 soap	150

The shops [were] full of Russian stuff rather than Japanese, [but] in this place [they were] about equal. The post office is forwarding a letter to old Tai (10) -- [it was] done after office hours, by the kindness of the post-master Liang I-Long 梁翼龍. Hire of soldiers RA 10, festive dinner (450) at the Great Wall Restaurant.

Thurs. 23rd [Sept.] dep. Suchow at 8.30am. Hostel (five lunches, three beds), 370 (food much more expensive). Awoke to blue sky and huge snow mountains in the distance, but the temperature was cold. [We] took on Wu Tso-Rjêng 吳作人 [Wu Zuoren], Professor of Oil Painting at Chungyang Ta Shioh [National Central University], who was going to the oilfield; [he is] French-trained.

By now [we have] generally decided that what's wrong with our engine is the piston-rings in certain cylinders, hence the oil wastage (blue smoke) and continual oiling up of the plugs. [It] can work up to 45 mph but [it is] hard to hold there. [Maybe it can be fixed] at the oilfield? [It] must be done as soon as possible. Cigs 90.

Suchow [is] at the 736km [mark]. [It is now] 109km to the oilfield. The inscriptions on the Suchow Drum-tower read:

Top: 聲震華夷 Shen[g] chen hua i
The sound reaches to both Chinese and barbarian,

Facing North: 北通沙漠 Bei tung sha mo
Goes straight to the northern sand dunes,

Facing East: 東通華嶽 Tung tung hua yo [yu]
Goes straight to the mountains of China,

Facing South: 南望祈連 [Nan wang Chi Lien]
Looking towards Chilian shan,

[71]

Facing West: 西建伊吾 [Hsi chien I Wu]

Towards the reconstruction of I Wu (i.e., the Kansu part of extra-mural Sinkiang).

At about 765km [we] arrived at Djiayukuan 嘉峪關 [Jiayuguan] the old gate between China and the west on the Silk Road. [We] diverged [from the road] to take a photo. The motor road goes through the gap in the Wall about 1 里 [li, a Chinese mile equivalent to approx. 1/3 a mile or ½ km] to the East. The wall stops at a deep canyon some km to the east. In and around the fort (deserted) all the installations are still there.

[Diagram showing locations of:] lovely Buddha with Lamaistic influence strong; Kuantu, with new statues and paint, put up by the Kansu oil administration (!); kilns for pottery; a stage for New Year plays; the Old Caravan Road; a new road, [direction indicated] towards the Nan Shan and End of the Wall. [72]

[At] about 812km the road branches off to the left to the site of the oilfield 老君廟 [Laojunmiao]. [It is] a romantic place, across miles of scrub desert towards the Nan Shan, with fine snowfields visible in the distance. [The] occasional derrick and puff of steam [are] visible from the foothills just like something out of a novel. The Gobi far behind us [is] flat like the ocean away across the Silk Road.

Arrived at the oilfield at 2.45pm. [Had a] conference with Shao [Yizhou].

Fri. 24th Sept. At 老君廟 [Laojunmiao] Oilfield. See special notes. [Had a] very nice welcome, rooms, truck repairs, etc. [The oilfield is on a] high shelf of desert scrub, with great snow mountains just behind. [There is a] drilling field on it and a refinery in a canyon 300ft deep to the north-west. (石油河 [shiyou he, 'petroleum river'] flood). In the morning, [we went to] the drilling field, and in the after-noon, to the refinery.

Mem: little temple.

[73]

[Interlude:]

LAOCHWINGMIAO [sic: Laochunmiao]

Manager Sun: Yu-chi 孫越崎 [Sun Yueqi]

Asst. Manager: Shao I-Chou 邵逸周 [Shao Yizhou] (London-trained)

協理 [xieli, Assistant Manager]

Director, Personnel Division: Wang

Guestmaster: Wang Ta-Chin 王大岑 [Wang Dacen]

Drilling Field

pioneer oil geologist (old man): Yen Shuang 嚴爽 [Yan Shuang]

oil geodesist [geophysicist] (London-trained): Wong Wen-Po 翁文波 [Weng Wenbo]

oil geologist: Bien Mei-Nien 卞美年 [Bian Meinian] (Geol. Survey)

Mrs. Bien Wen-Hsiang 卞文湘 [Bian Wenxiang]

American drillers: M.H. Bush; Reiner; Field

Refinery: Chin Kai-Ying 金開英 [Jin Kaiying]

(Kung-T'ao 公駁 [Gongtao] or 韜 [tao]), K. Y. King

Hospital PMO, Chiao Shu-Min 喬樹民 [Qiao Shumin]

[74]

Sat. 25th [Sept.] [I have a] very bad cold. In the morning, [visited the] hospital and coop stores, etc. (they have tunnels for food stores) In the afternoon, sat by the oil fire in the drillers' delightful house.

Sun. 26th [Sept.] [My] cold [is] better. Arranged about the gasoline, how much? In the morning, prepared a lecture, and after lunch gave a talk on nutrition to hospital people ([in all I gave] four lectures).

Mon. 27th [Sept.] dep. Laochiungmiao [sic]. Truck repairs: had had Ford springs put in to keep the piston-rings tight. [It was] ready by 11.30am. [We set] off by noon to Yumen. Tip to servants at oilfield, 200. Nowt else to pay.

[We] turned left at the junction with the main road at 813km. At first the engine went wonderfully, but at km 839 [it] suddenly stopped as if [there were] no petrol. [There was] trouble in the feed pipe or the carburettor. We were there from 1.30 until 5.30pm, on the desert road, where there was little traffic, few army trucks, and one camel train. At last [we] decided

[75]

[Interlude: N. Shensi situation (p. 75), Laochiungmiao [sic] (p. 76)]

N. Shensi situation (p. 75):

Feb./ The idea of a local generals blockade [is] completely false. The breaking of the popular front came from CLF [Chen Lifu], CCH [Zhu Jiahua] and TL [Dai Li] (blueshirt): 1941-

June/ dissolution of CMT [Comintern?] was at once made use of. Public prod. to disband military side -- reply, all orders relating to fighting the Japanese taken since the war began.

July/ CEL [Zhou Enlai] went back to N [north], nbg to stay

Aug/ KP at Egg's [Sir Frederic Eggleston's?] 23d on border and desultory fighting, still going on.

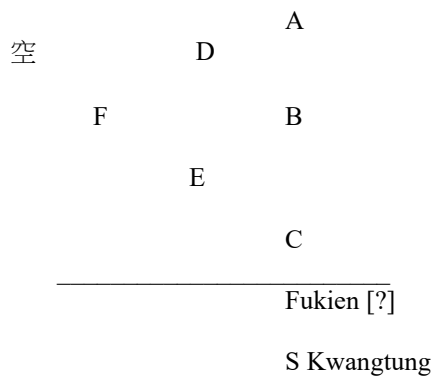
End Sept/ all withdrawn from corridor. We passed 180 Russian trucks going south from Gaotai, Tunhuang, etc.

[Chiang] Ting-Wen, chief anti-R [Russian] at Loyang, [his] position [was] strengthened. Feared JS [Japanese?].

Sheng Sh T [Sheng Shicai, Minister of Agriculture]: August 1942 applied Uncle Nogo, so C Govt promised tip, instead sent agent. Chi parties?

Y must be increasingly hard up for ammo but the economic condition [is] better. Money [is] based on production. 1Y\$ = 4 CG\$.

[Diagram of areas/regions, from right to left, top to bottom: (A_ NE: Manchuria; (B) Shantung; (C) N. Anhui and N. Chiangsu; (D) NE Shan. and NW Hobei [Schafer?]; (E) S. Shan, N. Honan, and SW Hobei; (F) Ordos and Suiyuen and N Shensi, connected to Kansu. West of Kansu is 空 [kong = empty, power vacuum?] Communications good through Japanese lines [along line from (B) through (E) and (F) and then southward, the course of the Yellow River?]. Below these regions is a horizontal line, and below this are two other regions: Fukien [?] and S. Kwangtung.



[76]

Laochwingmiao [sic]: General points, bad all over.

1. Fire hazard: the raising of the refinery to the top shelf will create a new hazard if no reservoir above, with big new pump and hydrant system, is provided.

2. River hazard: no protection at present [is] being given to the refinery in the bottom of the canyon, enough to protect against boulders and freshets of summer flood. Also use for ditto down the gorge further, using all manure from animal transport.

3. Really big reservoir could be used not only for fire but also for garden irrigation on the shelf (food-growing)

4. Farms should be enlarged at Djaiyukuan (family groups from Honan) and at Changma 昌馬, the nearest oases and at 亦金河 [sic: Chih Chin Ho?].

5. Develop consumer goods industry in villages on and near the main road.

Mem: Honan refugees, 200,000, could and should be used as soon as possible on the Tienshui road.

[77-78]

7. [sic] Encourage production of lubrication oils and vaselines, ancillary to the oilfield. [Also] non-steel [products?], leather. Residue from oil.

8. Encourage sheep, wool, cotton. Sheep: Tunhuang; locally: yarnmill. Anticipate a million men on the field.

9. Use of residual oil as lubricating oil should be started at once even if largescale machinery not available. Small industry.

Mem: Disinclination of mandarinate to deal with small things, only large-scale things interest them -- [this is a] legacy of Asiatic bureaucracy.

[end of interlude]

[from top of p. 78, the text continues entry started on p.74] to turn off to a little fortified village, 赤金堡 Chuchin-bao [Chijinbao]. There [we] showed Rewi's Gmo [Generalissimo] pass and people [were] very kind. At twilight, KW and YHT discovered the cause of the trouble -- a short-circuit between our jiggety magneto and the feed pump. Slept in clean, empty barracks -- very cold indeed.

Tues. 28th [Sept.] Expenses RA 206, Wu 25. Departed Chuchin-bao. [We] took an officer, four soldiers and one civilian on. [Had] trouble on the road again: ignition, carburettor and god knows what. [We] sat [for] hours on the desert... very low spirits. [There were] terrific mirages and the huge Nan Shan snow-covered range in the background.

Got to 玉門 [Yumen] at 1pm (884km). [We stayed at a] most beautiful guesthouse [which was an] old temple with poplar and tamarisk trees and good beds. KW and YHT repaired the truck in the afternoon with Tea Company mechanics who overtook us ([they] put in a new feed pump diaphragm). Lunch (poor) RA 150, gaokwei RA 90. The little town itself is not interesting except for [its] lovely ancient trees.

Wed. 29th [Sept.] dep. Yumen. Hostel 750 RA (including dinner and breakfast for eight). Wu left early with the Tea trucks. [We were] off at 9am. At 9.20am [we reached the] 900km mark. Over the steppe desert [one can] see three km posts at once along the straight road, [with the] magnificent snow-covered Richtofen range behind.

[79]

Unexpectedly, [there was] a Radical Improvement in the engine -- must be the new diaphragm -- [Our] average speed [has been?] about 50 sm/hr; [now we] can get 60 mph hardly touching the accelerator. Never knew KW [could] drive so fast! Everybody [was] pleased.

At 11.30am [we reached the] 1000km [mark], i.e., [in] two hours and ten minutes, or [at a rate of] 48 km/hr. [It was] stony desert. Arrived at the Anhsi crossroads at 11.45am (1018km), and arrived at Anhsi city at 12 exactly. [It has] bigger city walls than Yumen, but largely empty space inside, with camels grazing. [We] picked up Wu on the way into the city. [We] also picked up coloured stones on the desert for seal stones. The mirages (djia shui) [were] extraordinary. Lunch me 290, rolls Wu 50, carrots RA 10 [at the] Control Station.

[We set] off at 1.15pm. The road to Tunhuang [was] hard to find and very bad when found, but [we] had the tracks of army trucks to follow. First [we went] across the sandy desert scrub, then along the alluvium of the long range of the Nan Shan foothills for 50km (very bumpy). Then [we went] across a gravel desert, [and] then steppe for another 50 ([there are] 100km between [sources of] fresh water!). I saw: (a) many people constructing a new, good road starting from the middle (probably a good stone source) and working in each direction. This ties up with surveyors working at the west gate of Anhsi; |80| (b) bounding wild antelopes, deer or what not; (c) Mongols and their children at encampment; and (d) camels in herds.

Towards 6.30pm, after entering the Tunhaung oasis and skirting its south edge, we got stuck in the sand while driving straight into the setting sun. Between 6.30-7.30, all efforts to get the truck out [were] unavailing. So [we] settled down to spend the night. Bivouac, firewood, cocoa ([made with] water found in a stream and well boiled), three tins of beans, etc. The night in the truck was rather cold but the weather was fine. [There were] Hasar (Qazaq) horse-men and wolves. See the poem at end [of this diary, given below].

Thurs. 30th [Sept.] dep. Tunhuang oasis. [Got] up early, and with the help of peasants succeeded in getting the truck out of the sand. Loaded up again, and reached Tunhuang city at 10 am. Found it the prettiest city seen in China yet, like Shandan [sic: Shan Tan] but more of a city in prosperity. The streets [are] extremely clean, [there are] lovely pailous, [and the] fruit [is] marvellous. |81| The real fresh Hami Gua [is] most delicious, and [there are] melons, nectarines, pears, and small crab apples looking like very large cherries. HT, Wu, and I

called on the magistrate 陳邦啟 [Chen Bangqi] who was a nice elderly man, and provided one bobby with rifle (?ammo).

Left at 1:30 pm, after lunch, and after reaching a small temple at the edge of the oasis, went off towards the foothills of the snowy mountains across a gravel desert, with singing sands on the right.

Mem: These absolutely self-contained oases are like dissected-out separate cells of the cellular hsien economy of China (Lattimore, p. 39)

stones 60 picked up stones
lunch 297 (me)
provisions RA 220 over gravel desert

Stuck in the mud once again but got to Tunhuang-Chienfotung, 4 km up the river-bed.

[82]

Fri. 1st Oct. at Chienfotung 千佛洞 [Qianfodong]!!! Yesterday evening saw a good deal. The weather [was] lovely and still, with the sun from the West; phh [photographed it]. [Had] supper [of] gawkwei and fruit. [Got] up early and [took] many phh [photographs], with the sun from the East across the river bed. From 9:30 to 2:00 inspected many caves with Lo 羅 (吉眉) 寄梅 [Lo (Jimei) Jimei] Chi-mei, head of the Central Press Agency (photo department), who with his charming wife, stays here for [the] year.

Mem. old Yi the Lama 易 [Yi], who has been here for fifty years and knew [Sir Aurel] Stein and Wang Tao-se [Wang Yuanlu].

Worked on caves all day. [Had] lunch with the Los in Temple A. The weather changed at midday to a mild dust haze. [Had] tea at Lo's. SEE SPECIAL NOTES.

Sat. 2nd Oct. Departed Chienfotung. Homeward bound at last. Paid KW for Sept. 4285; paid YHT for Sept. 845 (see calculations at back). [83] RA for flour for bingtze, 100; to the man, 200 (me).

For the first couple of km the truck went quite well over the sandy riverbed track, but then a bad noise de-veloped and it turned out that the brass pipe conveying oil to the valve rocker shaft had broken. This was repaired [diagram], but something was still badly wrong with no. 3 cylinder. There we were in the desert all day. Soon it transpired that the MAIN BEARINGS [were] GONE from 1, 2, 3, and 4 cylinders!!! (At the furthest point of the whole journey!)

Wrote a telegram to the Embassy asking for a salvage truck (and a complete engine head if possible), [one] to the oilfield, and [one] to Liao Hung-Ying. Despatched HT and Lao W, with the two officials who had been sent to travel on our truck by the magistrate at Tunhuang, *永之 [unknown character Yongzhi] and 田唯 * [Tian Wei unknown character], with two donkeys and the bobby to Tunhuang to buy provisions. RA, Lao S and I walked [84] back with the baggage across the desert to the oasis, and reoccupied our room. Returning to the truck, KW and YHT started it and got it clattering back on its bad bearings to the oasis by the front gate of Temple B.

At this point the two or three servants in this temple refused us the use of the kitchen, and Lo, on appeal, didn't dare to enforce it.

Now things got clearer:

1) Temple B [is] not [under] the CYYDjY [Academia Sinica] as thought, but [under] the 國立敦煌藝術研究所籌備委員會 [National Dunhuang Art Research Institute Preparatory Committee], i.e., under MoE [Ministry of Education] ([run by the] CC [Clique]).

2) Therefore, Lo, as HollTong's [Hollington K. Tong's] man (Blueshirt), though officially in charge in the absence of the director, could not say anything to the servants.

3) ad quem [they see] me wearing the Central Academy [Academia Sinica] badge [which identifies me with] the CCH [Zhu Jiahua?], [with] more [affinity with the] PS [Political Science Group] than [with the] CC [Clique].

4) The two CC officials, [who were] very annoyed at the truck (and perhaps even thinking the breakdown was a fake), doubtless said something to the servants when they came back for the donkeys.

[85-86]

Sun. 3rd [Oct.] Sent off Lao S, KW, and YHT to the Tunhuang oasis by the short caravan route for firewood, etc. at the town. RA [paid] 500 for this. Felt very isolated. When [will I] again hear from the Pipit [Dorothy Needham]? Can perhaps telegraph [her] when HT goes in again.

Talked with RA and cleaned the typewriter.

[Had] lunch with the Lo's. In the afternoon, wrote to the Ambassador while HT and RA looked at the caves.

Mon. 4th [Oct.] Finished all the letters for HT to take to Chungking. He [set] off with Lao W just before 2 pm on two donkeys, taking 3000, i.e., 700 for the bus, 160 for telegrams, and the rest for expenses to

Lanchow. RA gave Lao W 400 for provisions. Looked at caves with Lo and Wu and RA. KW's party, minus Lao S, [came] back around 5 pm with provisions. Sent letter to Δ [Dorothy Needham].

HT's account:

given to him	RA	300
	me	1200
		<hr/>
		1500
	telegrams	977
	meals	135
	lodging	50
	provisions	500
		<hr/>
	total	1662
owing to him		162

HT plans to catch the Oct 6th bus from Tunhuang to Suchow; the KPA [Gansu Petroleum Administration] truck from there to Lanchow; and a plane thence to Chungking. [Had] a lovely afternoon walk along the top of a cave cliff with Lo and Wu.

Tues. 5th [Oct.] Photographed caves before breakfast, though the sunlight [was] not as strong as usual. [Visited the] caves all morning with RA. The boys [came] back at 5 pm. [Did] mending and sewing.

HT's account:

meals	170
lodging	60
telegram	196
cigarettes	145
	<hr/>
total	571

"Party" man came in an ox cart [drawing of the cart]. Sent off a second telegram to the Embassy by him (300).

[87]

Wed. 6th [Oct.] Photoed [Photographed] a wimpled donor woman before breakfast, then from 11:00 to 2:30 washed clothes and had a bath in the hot sun near the dam. [Had] an early tea and then [visited the] caves with RA. In the evening [had] the Lo family, painter Wu and the photographer Ku [Gu Tingpeng] to dinner.

Thurs. 7th [Oct.] [Visited] the caves with RA from 8:00 to 11:00. [There was a] flutter as the oilfield truck [was] said to be coming. Instead it was Magistrate Chen's Taitai [wife] with a shoulder of mutton for us. [Received a] tele-gram from Sun Yu-chi saying [that the] salvage truck from the oilfield started from Suchow yesterday; [we should] expect [it to arrive] tomorrow or Saturday. Wrote to the Magistrate. Wu [was] ill, [and was] doctored by us: [we] just [gave him] [aspirin-phenacetin-caffeine] and quinine, and then sulphadiazine. RA [paid] 160 [for] firewood, and 100 [for the] flour from Yi Lama. Every night [there has been] a breeze, [and one can hear the] tinkling windbells on the big Buddha temple. [There is] moonlight now. Every morning [there is] bright sun and [it continues] all day. Read Δ's [Dorothy Needham's] letters, all.

NB. [About the] fruit [here]: The lobo [are] like huge radishes when uncooked, and turnipy when cooked. The melons [are] green or orange inside. The pears [are] the texture of apple, but [have a] peary sweet taste [that is] delicious, [and are] often lemon-shaped. [There are] sand-dates like puff crackers. The quinces from Yi Lama's orchard [are] apple-shaped, sweet and [have a] European-pear texture but a quince taste. Tieh dze [is the word for quince].

[88]

Fri. 8th [Oct.] [Saw the] caves with RA from 8:00 to 10:30. Read Lattimore. Wu [is] better. Went with Yi Lama and RA to burn incense and yellow paper at Wang Tao-se's stupa tomb across the dry river-bed. [There were] no audible prayers. At 3pm the OILFIELD TRUCK turned up. The mechanics tore down the engine. KW and Yu [are] to go with it to the oilfield. Telegrams to the Ambassador and to H-Y [were] sent, [and a] letter [was sent] to Sun Yu-chi. The Lo's developed three of my films. The truck [got] away at about 6:00. Paid to KW for telegrams, 350; and for expenses 550 (me).

Sat. 9th [Oct.] At 10:30 sent Lao W and Lao S off to town for provisions (RA 500). Found [that] my lovely razor blades from NY [had been] stolen from the library by one of the horrible men ([the ones I had bought with GD [Gwei-Djen] and [came in] very pretty packets!). Must buy Soviet ones in Suchow. Caves with RA 11:00-2:30, Irish Stew for lunch, went over around 4:30 to Φ [photograph] Tang abbot in his tomb across river, walk on the desert, and supper with Lo's.

Sun. 10th [Oct.] [Went] with RA to the five Han Beacons. Couldn't get over the top of San Wei Shan at that point, so went down to the river valley and poked about a Han fort and Abbatial stupa tombs. Saw horsemen, possibly Hasars in the distance. [Came] back by the river valley. The boys [were] back by 3pm.

Returned: KW to me 100 (unspent)
 Boys to RA 60 (unspent)

[89-90]

As it was the Double Tenth [i.e. Double Tenth Day holiday], the Lo's invited us to supper from 4 pm onwards. Outside the caves, [we had a] standup collation with chocolate cake and the two Lamas. [There has been] no telegram yet from the Embassy!

Mon. 11th [Oct.] [The] sky [was] overcast for the first time, [and it was] colder. [Went] with RA and two boys to the Han fort, then climbed the hill to where we had seen the Hasars riding. [It was] rugged scenery everywhere, but [there was] no view of the Chilien (Nan) Shan as visibility [was] too bad. Sat and meditated in the fort on Lilska and past times while the others dug up Han, Tang, and Sung relics from the rubbish heap outside the fort. Eight films [were] developed by the Lo's, [with] very good results. Towards evening, [went] out to San Wei Shan with RA, visiting ruined stupas ([found a] jawbone of a Sung or Tang Abbot), and had to run from two wolves!

[notes on fauna, p. 98]

 scrub
flies (黃) ovispoli
lizards (羊) (argali deer)
marmots (sheep)
foxes
 wolves

Tues. 12th [Oct.] (1st day of repairs at oilfield.) [It was] sunny again. Got down to [the] Nature article on the NW [Northwest]. Did it by teatime. Afterwards [took a] walk with RA among the stupa tombs.

Wed. 13th [Oct.] (2nd day of presumed repairs.) Walked with RA and two boys to the stupa tomb below San Wei Shan. Found clay models of phallic temples in the tomb. Climbed up to Wang Tao-se's pailou 你來了嗎?, and down to the valley leading into the hills, but could not reach Kuan Yin Ching 井 [jing, well]. In the evening cooked mantou. A telegram came from the British Embassy. Earl Read [is] coming. (Fee to messenger 40 me, flour from Yi Lama 150 RA).

Thurs. 14th [Oct.] (3rd day of presumed repairs.) The two boys [went] into town to buy things. RA gave 1060. I gave 600 for telegrams. A truck arrived at lunchtime, but [it had] no connection with us, except [that it brought a] telegram from HY saying [that the] Embassy trucks [are] still south 91 of Kuangyuen. (Fee to bearer 40.)

Did my Oilfield Report all day. Wrote Yu Ta-wei. After tea walked with RA in the caves and sketched some lovely subjects. Supper [was] unfortunate: [there was] sand in the mushroom stew -- [they had been] insufficiently washed -- [and it] made us ill in the night. Also the kettle handle came off. Query [did it happen because] no incense [was] offered to the kitchen god owing to the Lamas' being away? or [was it] my poking out the glass eye from one of Wang Tao-se's monstrosities? (!)

Afterward learned [that] HT [had] arrived at Lanchow this day.

Fri. 15th [Oct.] (4th day of repairs.) [Had] no appetite for breakfast. RA typed while I mended the kettle, darned, sewed, and read. The boys [came] back at 2:30 [bringing] 151 change from the telegrams. A telegram [came] from the Embassy saying [that] Read [is] expected to arrive in Lanchow on the 18th. Also re my letter [of] Sept. 2nd: BC [the British Council has] not yet signified [its] approval [for ?] to visit England. [They] suggest [I] do the SE [southeastern] universities first, "if necessary curtailing the NW [northwest] trip." The Bible Soc. [Bible Society] agreed about the house, and [is] arranging repairs to be put in hand.

Sat. 16th [Oct.] (5th day of repairs.) The weather [was] cloudy and unpleasantly cold. Wrote all day in pi-dze [?] and rugs. [Wrote] letters to Currie, [M.H.] Bush, Appleton, [J.G.] Crowther, and Yu Ta-wei, re Δ [Dorothy Needham]. RA [went] with the boys and the Lo's, Wu, Ku to excavate the Han fort rubbish heap. They found a Wei stupa five feet down. Firewood came: 220 (RA). [It was] very cold.
[92]

Sun. 17th [Oct.] [It was] a bad night. [It was] icy cold. [There was] sunlight again in the morning, thank God. (6th day of repairs.) Made up Tang tiles under the doorstep, repaired the window paper and plugged up the space over the door. Also plugged the skylight. RA typed. I darned, mended, etc. [Visited the] caves. [Had] supper by the fire in the Lama's kitchen, as yesterday.

Mon. 18th [Oct.] (7th and last presumed day of repairs; and the presumed arrival of Earl Read in Lanchow.) [There was] sun but [also] light fleecy clouds. Wrote Δ [Dorothy Needham] all morning. Telegrams came from HT at Lanchow, and for RA. Fee to bobby 40 (RA). [Sent] a new telegram to HT 72.

Tues. 19th [Oct.] (1st presumed day of return journey.) [It was] cold but the sun [was] hot. The boys [went] off to town. I gave 75 for telegram to HY, and 1255 for provisions. Wrote Δ. While examining cave series C with RA, he heard a truck on the Tunhuang road; [Our] hopes [were raised]. [Had] an exceptionally fine log fire in the evening.

Wed. 20th [Oct.] (2nd day of return journey.) [There was] one-half inch of ice on the streams, but the sun [was] hot. Yi Lama, who last night helped me bring water with a carrying pole, this morning gave [me a] load of carpenter's chips from his new building. Washed and culled my Gobi seal stones. RA typed, then we both had hot baths in Blewitt's bath in Yi Lama's kitchen. [93]

[There are now] many anxieties: the return of the engine, the telegram to the Lo's as well as [to] us from HT saying [that the] Sian and Tianshui roads [are] both closed, query the winter rebellion (tu fei, Lao bah hsing [sic: lao-bai-hsing], etc.) or maybe hong chwing [sic: hung-chun, Red Army?] from N [the north]. A desert illusion:-

By teatime at 4:30 [we were] very worried because the boys had not returned. Went a long way over the desert to meet them. Made little fires to keep off the wolves, and were just giving up when two horsemen appeared on the horizon cantering with lances -- Hasar! So [we made] a quick retreat -- later [it turned out that] it was the boys after all, who had made whips against the wolves, which they had seen, [and had seen] also twenty Hasar armed with iron-shod staves. [We had a] happy reunion at supper. Also, our food had been exhausted. The boys had been delayed at the banks [because there was] no money.

After supper found [that] two Mongols had arrived and were cooking their supper at a fire in the groves under the stars. [They] said houses were dirty and [they] didn't care to sleep in them, though the wind [was] icy cold. [They had] thick sheepskins with red ornamentation and incredibly charming faces. RA doctored the eye of one of them against [its] inflammation. [They had] bare necks with amulets. Must be tough. [They were] armed with rifles against the Hasar.

RA [paid] 100 to Yi Lama for the donkey. The boys gave me 26 back, change from the telegram.

Thurs. 21st [Oct.] (3rd day of return journey.) [It was] windy with poor sun. Sat most of the day by a log fire in the Lama's kitchen, while the boys had a bath, and basked by it, writing to Δ [Dorothy Needham] and reading Lattimore. [94] In the evening [went] to the caves with RA. Found a lovely wooden head of a flute player, presumably once part of a balcony. The Mongols [came] back again, to fetch [some] eye medicine for their mother, and stayed to supper. [We had] songs and dances afterwards. The eldest one's name [was] Lobsun-Jaartsan. [He] could write Tibetan, that being now the written language of all the Kokonor Banner. The boys slept on the kang.

Fri. 22nd [Oct.] (4th day of return journey.) Got up late. RA typed all day. I mended and read. Saw the caves after tea. [Had a] log fire.

Sat. 23rd [Oct.] (1st day overdue.) RA typed; I finished Lattimore's book. Both days [were] fine. At a quarter to 4:00, when I was teaching the boys Fieldtown jigs, KW turned up on horseback from Tunhuang. The engine [is] in the city, and coming. [There was] great jubilation, [and we had a] nice evening. But [our] money [is] running very low. Gave the boys 1450 for provisions and 72 for the telegram for HY to ensure the credit letter increase at Suchow. (Horses' feed 20, RA). Have left: self 2800, RA 1800, KW 3000, i.e., 7600 to get us to Suchow.

Sun. 24th [Oct.] [Went] into town: KW to get the engine out on the horse cart, and the boys to get provisions. RA and I checked the best course down the riverbed. Later typed notes on Lattimore. The Colonel arrived to inspect the platoon, and dined with the Lo's. 170 [was paid by] KW [for the] cart.
[95]

Mon. 25th [Oct.] On getting up, the old Tao-se, Wang Tao-se's successor, brought us a basket of delicious quinces in gratitude for the sulphur drugs [that were] applied to his sores. At 10 or so a truck arrived, [we] expected [it was] our engine but it was CT Wang, formerly Ambassador in the USA, with a group of "loafers" to see the caves. [They were] taken round by Lo and [they] left after lunch without a word to us. At 4:00 the boys, KW and Lao Yu [Yu Dexin] turned up, but the engine [was coming separately] on a cart from the city. Another step forward! ([It would not arrive] till 6:30.) Riding on donkeys, all de-i-yangyang [came] two more mechanics from the oilfield. [There was a] telegram from the Embassy saying that 30,000 [has been] sent to Tunhuang and 20,000 each to Suchow, Sian, and Baochi.

Mem: Song and Dance to be made. [Our] advisers sent me off quite insufficiently prepared. Should have had desert equipment, much more canned stuff, more spare parts, a servant to cook, a mechanic, and a gun (a revolver [for the] wolves, and sporting gun [for] partridges, ovispoli argali), and someone familiar with Kansu dialect. [Also,] boards, lamp and camping equipment. [We were] only saved by RA's two boys. Huang had to go back.

Tues. 26th [Oct.] KW and the mechanics [were] at work reassembling all day. Saw caves with RA and copied some of Lattimore's maps. RA [paid] Yi Lama for door-planks (200), and [canteen] extra 50. Treated several soldiers [who were] very ill: [a possible case of] typhus? and bronchitis. [There was] no army medical service within 500 km.

[96]

List for Yenan Science supplies:

- at least two microscopes
 - 1 pathology microscope for Ma Hai-Teh
 - 1 biology microscope for the Research Academy
- two transit levels (theodolites)
- pyrometer for iron and steel (non-elec. if possible)
- fine grad. vol. flasks, [burettes], pipettes
- at least two good fine balances
- chem reagents, assorted
- Books: Encyclopedia of Chemical & Mechanical Engineering
- Textile Card and [Teazle] clothing (bearings, any amount, 2.5 inches down)
- Precision Bench tools, taps, dies, [nuerometer], [calipes] for DFE (Baillie Sch)
- box [spanners], files
- mathematical drawing instrument sets
- leather belting, 3" down.

(Mme Sun CDL [China Defense League] will pay)

Wed. 27th [Oct.] Packed up first thing, hoping [to] start. Then [it became] a nightmare day. KW and the mechanics couldn't start the engine. [They] pushed and pushed, and the fifteen soldiers pushed [RA to soldiers time pushing 120 (?)]. Eventually, at dusk, KW got it going. The bearings had been too tight. Now [they were] loosened, but [they] must be tightened progressively.

Thurs. 28th [Oct.] dep. Chienfotung. Packed up again, said goodbye to the Lo's and Yi Lama, and left around noon, with Wu on board and four oilfield mechanics who had helped assemble the engine. The sergeant brought the typhus case to RA again, who gave [him] some sulphur drug tablets, but [there was] nothing much to do -- [it was] very pathetic. The sergeant wanted to give him the 120 dollars which we had paid them yesterday. RA's sympathy would have made him a wonderful physician.

[Had] trouble with the spark plugs crossing [the] desert [97] and down the riverbed, but that once over, and spark adjusted (from too advanced), the engine went very well, and KW and all [were] very pleased. Got to Tunhuang Djiaotaiso [guesthouse] at 3:15 pm.

NB: Much progress [has been] made during the past month with the Road (see Sept. 29th), which now reaches along the edge and into the oasis. [It] must be the NAN SHAN BEI LU to Kashgar as an alternative to the TIEN SHAN NAN LU. [It] could not be such a good road to the oasis only.

RA [paid] to Yi Lama for the use of kitchen, 50. Me: haircut 20, matches 10. Eggs for dinner, inter al 440.

Fri. 29th [Oct.] Stayed at the Djaotaiso. Breakfast [was] nice but draughty, with yutiao. [Went] to the bank: RA's money will come soon. [Went] to the post office: mine not likely to come for some time, arranged touch it [to get it? at] Suchow. [It was an] old postmaster, [who was] very courteous. The telegraph office [was] interesting -- [they had a] radio transmitter [and were] intelligent chaps. All Central Asia [is] now linked by radio.

(Mem: mention [this] in Nature article.)

Looked round city, drum tower, etc. Then RA, Wu and I went to the magistrate's office for tea, sugar and sunflower seeds. "Tunhuang", the name, dates from the Han, after their "ever glorious army." The name "Shachow" [is] more a Tang name.

Magistrate Chen's attitude to the Hasa [is] interesting. News having just come in that last night they had attacked Mongols, killed some and stolen their cattle, sheep, and camels, he took the Hasa's part and said [that the] Mongols should look after themselves better -- [I] suspect [that the] Hasar are carrying wool to the Japanese for him.

Bought spirit money. [98]

At 1:00 horses were brought and we all went for a beautiful ride through the oasis. [There were] autumn colours in the bright sunshine [all the way] to 月牙泉 [Yueya Quan], the famous Crescent Moon Lake, and Singing Sands. It is just where the dessicating oasis verges on the huge sandhills, which for centuries have surrounded the lake without filling it. The temple [is] Lamaist-Taoist, like Chienfotung, but very nice. The water [is] crystal-clear, [and there is] said to be a special fish in it. The boys slid down the sand, but [made] no noise. It is said to be like thunder when the wind blows. I heard sounds like distant thunder which may have been it. [Had] tea on terrace.

On returning to the city, found two Hasa with a camel waiting for Wu to sketch -- [they were] very wild Turkish bearded men, [with] frightening eyes (Φ [photographed]), greenish, [with] white bronzed skin.

As this was going on, [some] noise announced the procession of the City God going his annual rounds. Got two good photos, and looked into the celestial magistrate's temple where [there] were two halls of the tortures of hell represented by models about three feet high. Outside, opposite, a play was going on. Bought very nice hot meat pies.

Telegrams	140
Cigars	15
Breakfast (RA)	60
Tea at Temple (RA)	20
Dinner (Wu)	240

[99]

Mem: near the temple, the ancient kilns [are] still used, where the grasses [are] burnt; [the grasses] should be used to keep off the encroaching sand. RA got a chrysanthemum tile, perhaps [dating from the] Tang.

The Hasars [are] a tribe allied to the cossacks which were turned out of Sinkiang in the civil wars. [There are] said to be 800 rifles of them within one day's ride of Chienfotung. But the magistrate [is] said to be paying them danegeld.

As we were leaving, the new General and the Magistrate, Chen, gave their [the Hasars'] leaders a dinner! [There are] only 500 soldiers in the town.

Sat. 30th [Oct.] [Had] trouble with the bank and [getting a] gourd, but bought melons and left at noon. Dep. Tunhuang.

guesthouse me 360
~~dinner last night Wu 240~~
provisions RA 360 breakfast, etc.

Reached Chienfotung fork temple at 12:30, at the end of the oasis, [and reached] the bao where the roadbuilders were at 1:45.

The road, Nan Shan Bei Lu, is now much further advanced.

Mem: tell Fu Sse-Nien that Chienfotung ought to [be] better looked after now that the road passes so close. Also, the plaster [that has] fallen off [in] bits ought to be collected and saved.

In sight of Guachowkou, [had] tea at 4:00. [Reached] the turn into the Anhsi oasis at 5:00. So far OK. Then [there was] a nightmare passage across the blasted heath at sunset, [with] crazy bridges; [we got] stuck in sand once and [it was] hard to find the way into the town, but [it was] OK at last.

dinner (poor) me 430
sugar RA 160

[100]

[There is a] new aerodrome being made at Anhsi, and the road [is] much further advanced. Stayed in the Air Force Djiaotaiso [guesthouse]. In the General's bedroom was [written]:

忠孝仁愛信義和平是
中華民族固有的道德

[Loyalty, filiality, benevolence, love, trustworthiness, righteousness and peace are the virtues long possessed by the Chinese people]

We had it [the room where this was written?].

Sun. 31st Oct. Departed Anhsi.

me cigs [cigarettes]	35
RA breakfast	40
Wu djiaotaiso	45

Onto the main road: At 10:10 am [we reached the] 1000 km post, at 11:30 (the 950 km post) [we] ran out of gas, and at 1:00 pm [we reached the] 900 km post, i.e., [we covered] 100 km in two hrs and fifty minutes, [travelling] at 34-35 km/hr. [This was because the] plugs [were] in poor form and [there was a] severe headwind.

Dao [arrived at] Yumen at 2:30 pm. Bought Soviet fish (4) for 400, and Soviet pencils (11) for 100. Wrote Δ [Dorothy Needham]. The tamarisk and other trees [are] now leafless.

Mon. 1st Nov. Departed Yumen. KW found a noise in the engine so [we were] not off till 10:30.

(Mem: the river coming out of the Nan Shan which waters the Tunhuang oasis is the 丹何 [Dan He, sic: 河] the old name, now corrupted to 黨何 [Dang He, sic: 河], "party river" (Dan [has] become) Dang). In Chiangsu there is a town called 丹陽 [Danyang], a big city in a mountainous country, also 丹徒 [Dantu] (金壇 [Jintan]).

Djiaotaiso (Wu) 680
honey (RA) 120

[101]

Reached the oilfield turning at 813 km, and its village 火燒溝 Hoshakou [sic: Huoshaogou], "Burnt Valley", at 1:15, at 812 km. A new rattle was developing in the engine, [which was giving us some] concern -- our three oilfield mechanics caught a truck for the mine at once, [including] their cotton and pears, etc., and two colonels [who had been] taken on at Yumen [who] also caught a truck for Suchow, thus lightening our load.

At 2:30 pm, about 60 km north of Suchow, the rattle, which had been getting rapidly worse, changed to a grinding noise -- [we made a stop] -- on examination [it] proved to be, believe it or not, a broken piston [symbol: X?]. [It was a] desolate place, [with the] snow-capped Nan Shan to the SW [southwest], the foothills to the NE [northeast], and no water for miles. Presently a truck going northwest took a message for Shao [Yizhou] at the oilfield and later, at about 3:30, a truck took Wu, me, and Lao Wang (and the third colonel -- glad to get rid of him) into Suchow, leaving enough food for the others. On arriving, found Chang Chwing-Ta [Zhang Junda] in his office at the Oilfield Station -- telephoned Shao and got a promise of an immediate relief truck, or tomorrow morning. Had dinner, then telegraphed to the Carlburg CIM [China Inland Mission] in Lanchow to Earl Read to get one of his trucks to return for us. Though instructed by the Embassy to give us assistance, they had left Suchow only the day before yesterday without waiting.

[102]

porters of baggage	200 (Wu)
driver of truck that brought us in	100 (Wu)
dinner	250 (me)
telegram	176 (me)

Rewi lent to me 2000 on leaving the spot.

At 11 pm when Wu and I were sleeping, RA and the others burst in, KW having removed the broken piston and come in to town, travelling 60 km at 40 mph on five cylinders! (They'd cooked on a fire, eaten Soviet fish, p'd [peed] in the radiator because [there was] no water, [and heard] frightful wolf howling.)

Tues. 2nd [Nov.] [Got] up at 7:00 to go to the Oilfield office to countermand a relief truck. [Had] breakfast [of] gawkwei (40) and eggs (35), [and bought] cigars (15). Called on Mr. Chang, and arranged for a truck to go to the machine-shop. Got 15,000 [at the] bank, [went to] the Post Office [and] got 30,000. Visited and lunched with Fr. Mötter, SDV, and the Figginses [of the] CIM [China Inland Mission]. Bought things with Rewi. Returned him yesterday's loan.

Yumen sealstones	40		
Soviet paper	100		
" coffee	1000		
" sugar	1200	cigarettes	30
" razor blades	200	cigars	30
" notebook	60		
" shaving soap	100		
" soap & toothp.	360		
" matches	300		
Yumen winecups	880		
Sinkiang raisins	50		
Seals for boys	50		
[TOTAL]	4440		

RA honey 70

[103]

Wed. 3rd [Nov.] Paid KW for October 4015 + [the] 170 he'd spent on the cart for the engine, from Tunhuang to CFT [Chienfotung]. [Paid] Lao Yu [Yu Dexin] 2015. Soviet razor blades and soap good. [Bought:]

gloves of Kansu wool	100
p'i mao dze [leather hat]	550
2 cans of Soviet fish	300
boys' seal cutting	240
laundry	50
[total]	1240

Went to see Shao I-Chou [Shao Yizhou] at the oilfield office at 3 pm. [He has] none of the spare parts we need (piston and rings), but he sends three telegrams: -

[To the] Ganchow office - [for] general help

[To the] Liangchow office - [for] general help and [for] a tow over Wu Sha Ling

[And to the] Shihlidien depot - [for] general help and to give us piston and ring and fit.

[He] also phoned the Suchow depot to let us use it if necessary now. Met Kuo Bao-chun 郭保君 [Guo Baojun], a civil engi-neer, at the oilfield.

[Paid] to Wu [for] regulating the counts: 300 (me), 23 (RA).

This morning saw the Wine Spring 酒泉 [Jiuquan] where Gen. Pan Chao in Han time[s] shared out wine with the army. [Also saw] a big sleeping Buddha of Tang time[s]. (φ [photographed] [chrysalis] man). RA 110 honey, 30 gawkwei.

Thurs. 4th [Nov.] Wu left early for the oilfield to make a big oil painting.

RA candles	50
me, sealcutting for [Lu] Gwei-Djen & [Liao] Hung-Ying	240
Soviet canned fish	550
" razorblades and shaving soap	425
towing rope	900
[total]	2115

φ [photographed] paper pulp making. Visited Ho Hsi Middle School, [which is] supported by British Indemnity money. Met Dean Ho Ling-Teh 何令德 [He Lingde], [whom I had] previously met at Lanchow, and an English master Kao Ho 高鶴 [Gao He]. Science teaching [is] very poor. [There is] no visible apparatus.

[104]

[Went] to the Suchow Oilfield Depot. Took on 53 gals in the big new drum, and 80 gals filling up the others. (Paid for already). [Went] to the Foggins family for a nice supper.

Fri. 5th [Nov.] Dep. Suchow. Telegrams to Embassy, [Ernest W.?] Carlburg for Earl Read, and Yang for HT (285).

provisions RA	100
razor blades, more	250

Summary of [what was] spent in Suchow:

stones, etc.	4440
	1240
	2115
KW	4015
Lao Yu [Yu Dexin]	2015
guesthouse	2000
Wu	300
telegrams	285
[TOTAL]	16410

[Crossing the] desert; [we passed the] 700 km post at 10:15 am, and the 600 km post at 3:00 pm. Ran out of petrol right there.

[We were] just limping along all day. [Had] tea of black toasted gawkwei and honey.

Mem: gawkwei with Ch. dates, and sand-dates in [them], in Suchow.

Sat. 6th [Nov.] dep. Gaotai Jn [Junction]. [Wet] off at 8 am. Djiaotaiso 357 (RA). [The Djiaotaiso is] now being arranged for women also.

The petrol situation at Suchow [was as follows]: When at the oilfield we had, of coupons, 15 [for] the oilfield at Suchow, and 65 for the oilfield at Tunhuang, for a total of 80. We bought 155, paying for (155 - 80 =) 75. At Suchow we wanted 53 extra, and anticipated using 68, [for a total of] 121. [We] had a coupon [for] 80 ([for the] Suchow-Lanchow [journey]), so paid for (121 - 80 =) 41. But at Suchow we got all this into the six small drums, so we must have used 121 instead of 68, and had left only 20 instead of 109, presumably due to the sand northwest of Anhsi.

Limped on pretty well. Arr. [Arrived at] Ganchow at 11:30, at 508 km.

NB: between 530 and 525 km, [we came upon the] ruins of [the] 黑水國 Heishuiguo capital (Han time[s]). [There were] piles of baked bricks, used for the road, for several km.

[105] Dep. Ganchow at 1 pm. At 480 km you pick up the Wall coming in from the left over the Ningshia foot-hills. At about 460 km we found [that] the Chinese flag and pole had rattled off -- [must] get another in Lanchow.

Arr. [Arrived at] Shan Tan at 3:45. Put up [in] the same inn. Limped on. Then found [that the] top leaf back spring [was] broken -- worked [on it] from 4:30 to 9:00. At last got it done. 心 [Xin] ([it was due to] stripped thread, hammered casting, and crumbling brick). Then in the night, I on my camp-bed, and the others all on the k'ang, it [the k'ang] went and caught fire, burning the mats, filling the room with smoke, and destroying Lao Wang's clothes, seal of wood, etc. Refitted him in the morning with other people's spares. Dinner me 360.

Sun. 7th [Nov.] dep. Shan Tan. 446 km. [Had] breakfast [of] hot potatoes, hb [hard-boiled] eggs, coffee, black toasted gawkwei and honey. Very cold. Inn me 45, provisions RA 170. [Set] off [at] 9:00 am. For 20 km after leaving the town, [there was] a magnificent panorama of Chilien Shan covered with snow to the SW [southwest]. Even the foothills near us [were covered], [there] must be 50 miles of it. Yet [there was] no wind and the sun [was] hot. RA says [it's] like [Otago], New Zealand. The grass of this steppe would feed millions of sheep, if the oases grew winter feed, roots or [crisilage]. The Wall keeps along on the northeast. On a grade uphill [we had] much plug trouble. The performance [was] terrible. [Reached] 400 km at 12:15, and the top of the pass at 390 km. [It was] better going down. Arrived at Yungchang, 343 km, at 3:30. [Had] some difficulty in finding a place [to stay], but eventually put up at the oilfield truck depot in a common room. Dinner RA 200, cigs 30.

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Mon. 8th [Nov.] dep. Yungchang. Bought two pairs of camel hair socks for 230. Everybody bought camel hair socks, gloves, and hats.

Oilfield depot 50 (RA)
breakfast, etc. 30 (RA)

[It was] very cold, [with a] snowy sky. Saw a lovely 文廟 [wenmiao, or temple], shaohsiang [burning incense?], done [i.e., constructed] in [the] 成化 Chenghua [Era, ie 1465-1488, during the reign of the Chenghua Emperor (Ming Dynasty)]. [Set] off at 9:00 am. [Reached] the 300 km [mark] at 10:45. Arrived at Liangchow (273 km) at noon. Saw the oilfield depot and arranged about the tow: starting at 5 am tomorrow. [Went] to the Djaotaiso. Lunch 340 me. Strolled around and tried on a camel hair jumper, but [it was] too small. [Sent] a telegram to Hoyt 30. Djaotaiso 100 (RA). [Had] tea with the CIM [China Inland Mission] people, the Kennedys and Eatons.

Mem: (1) [There is a] story being spread about here that the northern Shensi people are going in with W-C-W [Wang Jingwei]; [I must] apprise the service and our people of this.

(2) The very red cheeks of the country people in the Yungchang upper valley. Entering at evening, the baos in the evening sun [are] just like the best [of] modern architecture. Tai [Yai?] fan dze de mao dze [kind of hat?]. [two diagrams of the architecture]

(3) Re the British Indemnity Middle School at Suchow: [I must?] suggest to Han Li-Wu [Hang Liwu] [that it] should be turned into a technical school like the Baillie Schools, [and that it should include] Tibetan, Mongol, and Hasar boys.

(4) At Shihlidien [to] take on drum and 53 gals.

(5) At Lanchow [to] contribute 1000 towards Lao Wang's clothes [that were] destroyed at Shan Tan.

(6) My notes and photos of Chienfotung [are] probably good enough for an article in the Journal of Asiatic Studies or even a small monograph (with [Gustav] Haloun or other expert). [Prof. Haloun was a Czech scholar in Cambridge who taught JN Chinese.]

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Tues. 9th [Nov.] dep. Liangchow. [Got] up at 4:00 am, but the truck wouldn't start. Discovered it was the battery, quite run down.

I. The plates [were] eaten through, therefore [it was] a bad battery to start with.

II. Mem.: The gasket was bust in four places; [it] must have been done before.

III. Mem.: The piston at Suchow was faulty, broken halfway round.

Went to the Oilfield Depot and Mr. Fang sent a truck to provide a strong spark to start with -- 6 am -- and lent [us] a spare battery at 8:30 am. 心 [xin]: Eventually [set] off from the depot around 9 am, after awful trouble, and the spare battery and its driver returning to Lanchow. Nice:- Fang Chung 方重 [Fang Zhong] the stationmaster and Chao Yen-chun 趙延俊 [Zhao Yanjun] engineer (Shantong). Got some news bulletins from the Kennedys, but [there was] not enough occupation for the mind. Last night the chiming clock next door resembled the one in the hall at home when I was a boy, hence [I had an] elaborate remembrance of my father's library and all that was in it. At other times I visit Owlstone Road in the spirit, examining everything.

The truck went better, maybe because a blanket [was] tied in front. Arrived at Long gou bao, 194 km, at 1:00 pm ([and to the] top of the hill about 180 km). [There were] beautiful snow[-covered] mountains all around, high hills, [and] clear streams. [It was a] cold, bright blue day. Lunch 190, cigs 15. [Had] trouble starting, but changed battery and got off at 2:15. [Got] up to the top of Wu Sha Ling pass by 3:15, accompanied by an oilfield truck

Gawkwei, etc., 75 RA.

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[that was] sent to help us but didn't. RA and I ran beside [it] part of the way. 心 [xin]: [felt] pain because the altitude [was] 8000 feet. [There are] Han forts with five beacons (not understood on the way up) on both sides of the Wu Sha Ling pass. The Wall runs over this pass.

On the northern side of the pass, [we] met a battalion of weak, unarmed Szechuan soldiers going northwest, probably the same as those overtaken on Oct. 19th (q.v.) [*quod vide*, i.e. see description in entry for 19th].

Arrived at Yungteng [at] dusk, 5:15. Put up at the Moslem Inn. Dinner 275.

Wed. 10th [Nov.] [Got] up at 6:30, and [set] off at 8:45. [It was] very cold but bright. Thrown out water freezes at once. Our oil [was] exhausted, [so we] bought rapeseed oil 150 (RA); Inn and provisions 153 (RA). Departed Yungteng.

[Diagram of a] farmhouse bao with a balcony in its tower. [There are] Han beacons as far down as Hoko [He kou]. [There are] soldiers building small forts to the left of the road, i.e., northwest for several

kilometres around 78 km near Hongchwingdze, and down to and at Hoko. Hoko is at 47 km; [we] arrived at noon. Lunch 189. Paid Lao Yu [Yu Dexin] 650 for the 10 days of this month, and 650 bonus for the whole trip.

Arrived at Shihli dien at about 3:00, very disappointed that the new head Li Yung-Fang had not received any telegram from Dr. Shao authorising repairs to the truck and issue of Chevrolet spare parts. [They] agreed to do repairs, however, if we bought the latter.

So [went] into town and party dispersed at about 4:00, I staying with the Hoyts at the CIM [China Inland Mission] Hospital; RA going to Baillie School with the boys; and KW off for a bath and to see HT who [had] still not left for Chungking.

[109]

Thurs. 11th [Nov.] In town [or inform?], 234. [Sent a] telegram to the Embassy: (a) [asking them to] pay 30,000 [into] my account at Chungking, (b) [asking them to put on the] pressure [to arrange] HT's plane [on the] 16th. [Sent a] telegram to Shao re confirm[ing] Shihli dien, 88.

Saw HY. [Went] with KW and HT to buy more spare parts: piston 2400, plugs (3) 2000, rings set 9500, total 13,900. Other spares [are] being recalled from Suchow. Lunch 230, took shoes, met KW's mechanic friend 李樹 [Li Shu]. They got rapeseed oil and brought the truck to the Lichih-shih [guesthouse]. [Reimbursed] [Ernest W.?] Carlburg [for the] telegram (30), cigs (40). [Went] to CNAC [China National Airways Corporation]. [Had] supper with HY and HT at Chang Kuan-lien [Zhang Guanlian] family [home].

Fri. 12th [Nov.] RA came after breakfast. Settled accounts with him, paid him 1586. [Went] to town and looked for Soviet Leica (camera) in second-hand shops, nbg [no bloody good]. [Bought] wool (195) to repair my jumper. Got two coop blankets (2600), sweets (120). [Had] lunch with HT and TH [Chen Zixin] (210). Then [had] tea with Constantinov, vg [very good], and tea with HT at Lan Yuen (22). Called on CNAC manager re his [HT's] flight. [Went] home to supper and told the Hoyts all about Chienfotung. Rickshaws 35, cigs 55.

Sat. 13th [Nov.] Wrote letters, went with [HT] to Wang of the Protocol Department re his flight, to Wang of the NRC re engine oil, and to Yang of the NRC re the flight. [Had] a Western lunch (200). Got 15,000 (remainder of L of C [Letter of Credit]) from bank, plus 30,000 (new remittance unexpected). [Bought] envelopes (56), sealstone boxes (200), cigs (35). Located honey and butter shops. Met Col. Gillam, the US typhus expert, with Nichols. [110] Gave 2000 to HT to repay a debt of his to Chang Kuan-lien, and 3000 for his living expenses, salary and part-plane-passage ticket. The accounts [are] to be balanced in Chungking. Shoes mended (250) [Had] dinner with E. E. Rice [250].

Sun. 14th [Nov.] Wrote letters all morning. [Was with] HT and TS all afternoon, and [had] HY to tea. [Paid] 1000 to RA for Lao Wang's clothes. RA [is now] ill. [St?] Hoyt pronounces [that it is] malaria. [Had] dinner with Yu Kuang-yuen [Yu Guangyuan] (Edinburgh pharm. [pharmacologist?] and dermat. [dermatologist?]) on his birthday, with Amber Van and Dr. Chi [Ji Qingxin] of Northwest Medical College.

Mon. 15th [Nov.] Got the news [that] HT [is] not to go on the 16th's plane. [This is] the third turn-down. [Went] with him and Lu Tong-lun [Lü Tonglun] to Gen. Chu Sho-liang to see what could be done, [but it was] nbg [no bloody good]. [Had] lunch with Gov. Ku Cheng-lun, [that was also] nbg [no bloody good]. Gave a packet of letters to go the Embassy, to Rice to go safehand with Nichols. [Had] tea at the CIM [China Inland Mission]. [Had] supper with Constantinov, very nice.

Tues. 16th [Nov.] Rested. HT [came] over in the morning. [Had] lunch with Rice at the CIM [China Inland Mission], [and a] very good talk. Walked [to] Baillie School. [It was] very cold and snowy. [Had] tea with RA, C [Chang] Kuan-lien, HY, HT, Ch Li [?], the Taylors, etc. Lent HY 1000 \$ more. TH [Chen Zixin] [is] mending my jumper. [Had] supper [at] Chez Hoyts [i.e. the Hoyts' home]. Cigs 20.

Wed. 17th [Nov.] Rested. [Went] to town at 11:30 [by] car to lunch at Ch. Chang's, the surgeon -- all the medical people there. (Cf. the KMT order recently, much discussed with RA and [E.E.] Rice, that no [Chinese person] should [have] social intercourse with Westerners except in the presence of the Waidjiaopu [Foreign Affairs Dept.] or police -- [it] doesn't seem [to have] applied ever in my case.)

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At 4:00 [went] to the Prov. Govt. [Provincial Government] where [I] lectured on Science and Civilisation to 200 officials. Governor Ku [Gu Zhenglun] himself was present. [It was] very cold, and the ho pandze [metal bowls filled with boiling water] didn't warm the hall! [Had] dinner with Wu Tso-Rjeng [Wu Zuoren] and HT (160). [Bought] sweets (95), and cigs (50).

Thurs. 18th [Nov.] Rested. [Had] lunch at the Rotary Club, and spoke on Scientific and Technological Cooperation in relation to the NW [northwest]. [Had] shoes repaired (150). Then [went] with HY and HT to

Momedan Fur Coop, and bought [some] fur for a p'i p'aodze [fur-lined coat]. [I shall] pay later. [Had] tea at a good buns place (44), and [bought] cigarettes (44). Called at the CIM [China Inland Mission]. [Had] dinner with HY; the pork and chestnuts [were] very good, 150 sweets.

Fri. 19th [Nov.] KW [came] in to say [that the] truck [is] not yet done, and to fetch the battery. For battery repairs 3000; to HT (advance) 2000. [Went] by car to the NW Epid Prev Bur [National Northwest Epidemic Prevention Bureau], and lectured to a big, interested audience on organisers. [Had] lunch with Yang Yung-nien [Yang Yongnian] and [his] pretty Japanese wife, Li Wen-ming and Charlie Chang [Zhang Chali]. [I was] asked to do another [lecture] tomorrow. [Had] a hot bath in the [op] theatre (!) at the Hoyts. [Had] RA to supper.

Sat. 20th [Nov.] Yang Yung-nien sent me a black p'i p'aodze fur as a present. Then [went] with Chang Cha-li [Zhang Chali] to the Hsi-Bei Fang I Chu [National Northwest Epidemic Prevention Bureau], where I lectured the second time. Then took the British Consul [Derek] Bryan out to lunch (180). Then [went] to the CIC Federation [China Industrial Cooperatives] and gave another lecture. [Had] dinner with Chang Kuan-lien [Zhang Guanlian] and his family, HT, HY, Bryan and [E.E.] Rice. Gave 1800 for p'i [chyme].

Sun. 21st [Nov.] [Made] notes on Granet; [had] Wu to tea. [It was an] aggravating day. Mem: write C L-F [Chen Lifu] re Chienfotung.
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Mon. 22nd [Nov.] [Made more] notes on Granet. After lunch called on Lo Djia-Lun at the Lichihshi [guesthouse]. ([His] expedition [is] back from Chinghai) but [I] talked only with Wu Wen-Tsao [Wu Wenzao] spkplug [sparkplug?], an anthropologist and sociologist; Ting Hsiao, an CYYDjY [Academia Sinica] geologist; and Yao Hsun-Yuen [Yao Xunyuan], a public health specialist. Had previously seen Ku Chien-Chi [Gu Qianji], [whose field was] animal husbandry. [They] all want me to go [to] Sinkiang by air next year. [They] all speak very well of Sheng Shih-Tsai [Sheng Shicai]. [They] met British Commercial agents in Sinkiang.

[Had] supper with Wu and Mme Chang Tao-Fan, a French woman. [Had] Moslem guodze, the raw meat business. Cigars 16, sweets 80.

Tues. 23rd [Nov.] Finished [my] notes on Granet. The truck [is] still not ready. In the afternoon [went] to Hsi Bei Fang I Chu [National Northwest Epidemic Prevention Bureau] for a third lecture, and then dined with Yang Yung-nien [Yang Yongnian] and [some] medical men.

Wed. 24th [Nov.] [Went] to Shihlidien to hurry them up with HT. [Went] out by rickshaw, and back by raft down the rapids. [Had] RA to supper. Rickshaw 170, lunch 90, raft 60, cigs 40.

Thurs. 25th [Nov.] Did a redaction of [my] MCN [Meng Jiangnü, a Chinese folktale] translation. [Had] tea with Constantinov. OK re Sinkiang. Rickshaws 53, cigs. 40.

Fri. 26th [Nov.] Typed out MCN [Meng Jiangnü]. [Had] dinner with HT 150, rickshaws 30.

Sat. 27th [Nov.] Liu Kuo-Chün came and asked for passage, [I] agreed. Dr. Hoyt reported that at his meeting with Yang Yung-nien, at which he enquired re the Government's policy re Mission Hospitals, Yang said [they should] certainly stay and keep going, as after the war civil strife [is] anticipated and the Government Service might fail to function temporarily.
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Gave HT 2000 on account. In the evening [went] with RA to Baillie School. [Had] dinner [and attended] Tung Lo Hui.

Sun. 28th [Nov.] Finished proofs of HoOS [History Is on Our Side] and awaited a phone call re the truck, fruitlessly. [Attended] Chapel at the Hospital in the evening.

Mon. 29th Nov. [Ph]one [phone?]. At 11:00 the truck came to town, and at 2:00 went out in it, hoping to get petrol at Shihlidien. But it coughed and went very badly, and at last near Shihlidien all the oil ran out of the engine. Hopped an oilfield vehicle back. Went and bought three new sparkplugs (2100). Dinner [with] HT, RA, and HY was very disappointing (205).

Tues. 30th [Nov.] HT [went] out to Shihlidien to reconnoitre. The truck will be OK. [It] came in. The Hoyts' bill was 3500; [paid] KW 3950 for November. To HT: for petrol and oil: 6500 + 6000 = 12500; for brake fluid 1500. [Had] dinner with HT, 155, and chocolate after with HY and the Changs.

Wed. 1st DEC(!) [Did] final shopping with HY. [Sent] telegrams ([to] Embassy, Sian, Baochi), 435. [Bought] coffee (1000), butter in skins (630), and honey (300). Lent to HY 100. Lunch 50, rickshaw 20, tip to woman at Hoyts 100. The truck [is] still not ready, [and the] battery [is] now completely gone west; must buy a new one.

Thurs. 2nd [Dec.] HT and KW [went] to collect petrol at Shihlidien in the morning. In afternoon I borrowed 13,000 from the NRC [National Resources Commission]. Mr. Wang, Mr. Yang, and we bought [114] [a] new battery for 10,000. HT holds on to the change. Got oil at the NRC [National Resources Commission] depot, loaded at the Hospital and the CIC [Chinese Industrial Cooperatives] place. Decided to wait another day as KW wanted the new battery to charge longer, and to fiddle with the carburettor, adjust magnets, etc.

Fri. 3rd [Dec.] Flags on. Slept late. Eupletic. The truck [is] now running rather well. [Worked on] proofs of HOOS [History Is on Our Side]. [Had] lunch with HT and Frank Liu [Liu Xingji], the Vet[erinary] Vaccine [Institute] man. The oil [was] gotten. Cigarettes 35. Sent a telegram to [Ludwik] Rajchman and Currie re the World Sci Coop Serv. [World Science Cooperation Service] in the UNR&RB [sic: United Nations Relief and Rehabilitation Administration]. Saw Vet Vaccine Inst. [Veterinary Vaccine Institute]. The new battery [was] fetched.

Sat. 4th [Dec.] Loaded up finally and [set] off from Hsiao Tung Kuan at 9:30 am: me, Wu [Zuoren], HY, KW, HT, Rewi, and mechanic. [Made] stops for minor things. But had not gone 15 km, i.e., up to the top of the first pass through the mountains, when [we heard a] bad noise from the engine -- [stopped], KW looked, the "mechanic" [was] useless -- [and] found [that] No. 1 bearing [was] gone. Worked on it all day, but could not accomplish [it] before night ([it was] very cold), so HY, HT, Wu, and I hopped a truck ([carrying] ammunition) for [115-116] Lanchow. RA and KW stayed with the truck. We stayed at 張家 [Zhang Jia, i.e. Zhang Guanlian's house]. Dinner 160, telegram 243.

Took the decision [that] I should return to CK [Chungking] by plane. Saw Mr. Ku and he [was] very encouraging. [There was a] plane on Wednesday.

Sunday 5th [Dec.] HY and I [went] to Lü Tong-lun 呂同崙 [Lü Tonglun] with plane papers; [all was] OK. [He has a] very nice assistant: 張型堯 [Zhang Xingyao]. Waited anxiously all afternoon for the return of the salvage truck with HT and the Tea mechanics -- [they] came at 6:30 pm. [Had] Wu [Zuoren] to tea. Rickshaws 190, telegram 45, lunch 140, cakes 48, cigarettes 50.

At 4:30 am, [had] a nasty dream [of] Dophi [Dorothy Needham] sleeping alone at Clements End. [She] said afterwards [that] a new rocket-bomb had hit the air-raid shelter, she fortunately not being in it. But whole house rocked [and she was] frightened.

Monday 6th [Dec.] [Went] to the Bank of China, and arranged to recall 20,000 from Sian for HT at Lanchow. Telegr[ammed] the Emb[assy] to recall 20,000 [from] Sian; 20,000 [from] Baochi; [and to] send 40,000 for HT to Hanchung. Repacked everything. [Had] lunch [with] RA, HY, HT. The mechanics [were] working on the truck. [Went] to the CNAC [China National Airways Corporation], [and] found [that the] Airport Inspector has the papers. Hope [he] will release [them] in time. [Went] with [Derek] Bryan to Li [Shaoling], the Governor's Secretary about this. Bryan may come on the truck back. [Had] tea at the CIM [China Inland Mission], and a second tea with RA. [Had] supper at the Changs. Lunch 190. [Had] my specs repaired 120. Telegram 35, rickshaw 30, cigs 35. Read Stanley's "Life of Thomas Arnold".

Tuesday 7th [Dec.] [Had] lunch [at] Ta Tong Fan Dien with RA, HY and Bryan, who stayed around all day reading reports, etc. Did New Statesman article and worked on RA's, and HOOS [History Is on our Side]. [There will be] no plane tomorrow. [Had] tea out with HT and HY (60). Dinner 110.

Wed. 8th [Dec.] [There was] no plane [today]. [Went] with RA across the river by raft. [Had] lunch, 180. [There were] wonderful ice floes made up of balls of ice one-half cm in diameter. Water-worn, [we had] tea at the Hospital. Got [my] specs bent. [Had] tea with HY and Wu, [and] supper in.

Thurs. 9th [Dec.] [It was my] birthday. RA gave me box of cigars as a present. In the morning Wu Tso-Rjeng did a very successful portrait of me. [Had] lunch with HT at a European place with very good buns. [There was] no news of a plane. Sent a cable direct to [delta = Dophi]. In the evening [had a] delightful feast at Chang Kuan-Lien's. I wore my best Chinese silk gown. [Had] chicken fried in batter, tang sao li chi, ba tsai and li dze, niu rjo and li dze, savoury custard, [and] sugar potatoes soup. [Diagram shows seating arrangement round

the table, L to R from bottom (6 o'clock): me, Bryan, C K-L [Zhang Guanlian], HT, HY, Wu, Chen Wên-Rju 陳文若 [Chen Wenruo], Chang Hsien-Ling 張賢琳 [Zhang Xianlin], RA.]

Fri. 10th [Dec.] [Had] a European lunch with HT. Visited the Seventh Day Adventists. As we were going to bed, news came that CNAC refuse me passage.

Sat. 11th [Dec.] Saw Constantinov re a plane. Kuan-Lien saw Mr. Li (Ku's secretary) and the CNAC. Lunch 190. Gave RA 300 for breakfasts. [117] [Had] dinner at the Hsien Cheng-Fu [Xian Zhengfu, Prefectural Government]; [was] invited by Li [Shaoling], the Governor's Secretary. [The guests were all representatives of] Tongmeng kuodjia [tongmeng guojia, the Allies]. I wore my Chinese [changua] and magua, [they were] very successful. [Diagram of seating arrangement shows round table, L to R from bottom (6 o'clock):] Li, Lu, me, [E.E.] Rice, Nikitin, [Derek] Bryan, Constantinov, [and] another Russian.

Sun. 12th [Dec.] Bryan came round to sort out the MoI [Ministry of Information] stuff. Met Col. P'i Tsung-Gan 皮宗敢 [Pi Zonggan] of Sandhurst, who had interpreted for me at the Gissimo's [Generalissimo's], now o/c [Officer in Charge] of Northwest Army Transport, and German-trained Liu Mei-Yin 劉美蔭 [Liu Meiyin], radio expert. [Had] lunch with RA, [and] supper at the Moslem restaurant with Bryan and Rice.

Mon. 13th [Dec.] K-L [Zhang Guanlian] [went], with 4500, to Wang at the Sheng Cheng-Fu [Sheng Zhengfu, Provincial Government]. Cigs 30, rickshaw 30, pears 60, cigars 30, ironing of Ch[inese] gown by tailor 30.

Tues. 14th [Dec.] Went down to the airport and bought a ticket at the last moment. [Was] helped by Wu Tso-Rjeng, having drawn the portrait of Chen I-Ming, chief of the NW [Northwest] Secret Police the day before. Arrived at CK [Chungking] at 5:00 pm, [and was] met by John B [Blofield].

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HT's a/c [accounts], 13th Dec.

Received:

At Chienfotung:	3000
At Lanchow:	
Wired from Embassy	10000
13th Nov.	5000
19th Nov.	2000
27th Nov.	2000
30th Nov. spares	14000
30th Nov. KW sal. Nov.	3950
3rd Dec. borrowed NRC	13000
9th Dec. back from Sian	20000

72950

Expended

Journey from Tunhuang to Lanchow:

Returned to Chienfotung	571
Total fares	2444
Meals etc.	1451

4466 4466

At Lanchow:

14th-31st Oct.	Food	2623
	Telegrams	762
	Rent	1200
	Fares	275
	Misc	247

5107 5107

1st-15th Nov.	Food	1850
	Telegrams	180
	Rent	900

		Fares	120	
		Misc	232	
			<u>3282</u>	3282
	16th-30th Nov.	Food	1975	
		Rent	900	
		Fares	185	
		Misc	478	
			<u>3538</u>	
	1st-10th Dec.	Food	1175	
		Telegrams	504	
		Rent	180	
		Fares	20	
		Misc	200	
			<u>2079</u>	2079
119		Living expenses etc. carried forward		14006
		Chienfotung-Lanchow journey		4466
				<u>18472</u>
		Truck expenses		
		Brake fluid	2500	
		Brake rubber caps	300	
		Petrol, extra at Shihlidien in big drum	8300	
		Lubrication oil (NRC)	6000	
		"New" battery	10500	
			<u>27600</u>	27600
		Kuang Wei's a/c [accounts]		
		Meals with oilfield mechs	380	
		Pump diaphragm, flag	335	
		Salvage truck	440	
		After breakdown on 4th Dec.		
		Rebabbiting bearings	600	
		Sandpaper	60	
		Radiator repairs	150	
		5 days food with Tea Co mechanics	2606	
			<u>4571</u>	4571
		Kuang Wei's Nov. salary		3950
				36121
			total	<u>54593</u>
		HT Oct & Nov. salary	6000	
		Lent to HY on 7th Nov.	1000	
			<u>7000</u>	7000
				<u>61593</u>
72950	72950			
58593	61593			
<u>14357</u>	<u>11397</u>	actually has in hand between 12 and 13,000		

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Poem made by Wu Tso-Rjêg when we were benighted in the desert near Tunhuang, Sept. 29th:

Weary eyes once gazed over the far-stretching desert
Now again the wind is rising beyond the borderlands
Rushing whirling sands put warhorses to flight
Where now the sounds of engines mingle with bright dust
shining golden.

The heavens close down upon the wide open wastes
And the Great Bear now sinks near the horizon
Suddenly the sound of teals is wafted towards the wanderers
Each note bringing with it new sadness and tears.

[186]

Song and Dance See Mon Oct. 25th

Spare parts for car

crankshaft	3 clutch plates
3 conrods	4-6 brake lining sets
3 pistonheads	2 spare wheels and tyres
6 sets outsize prings	1 complete front spring assembly
6 sets normal prings	2 complete back spring assembly
3 complete sets bearings conrod	1/4" bolts w/nuts & long thread
1 set main bearings	2 top front, 3 top back leaves
4 cylinder-head gaskets	assorted bolts & nuts from 1/8"
6 valve space gaskets	to 3/4", different lengths
6 side valve space gaskets	small box of taps and dies
1 roll cork	vice, hand-drill
1 roll asbestos	50 lb of No. 8 galv. iron wire
8 or 12 sparkplugs	10 lbs of No. 10 copper wire
2 fanbelts	insulated electric wire,
1 magneto	10 lbs thick, 10 lbs thin
1 carburettor	assorted small files: 1 big,
1 battery with acid	flat file, 3/corner round
1 box of 6 bulbs	1 set of box spanners
2 glasses for frontlights	pliers & screwdrivers, large &
2 spare handles	small
1 spare battery	petrol cans with screwcaps, for
pe	oil, water, brake fluid, transmission oil

[along page edge:]

box bolted onto side with Yale lock