

PIONEER JOURNAL OF AMASA M. LYMAN,

KEPT BY ALBERT HARRINGTON

April 8 - Sept. 10, 1847

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AMASA M. LYMAN'S JOURNAL. 1847.
Kept by Albert Carrington. Apr. 8 - Sept. 10.

Young General.
Markham Col.
Pack 1st Major
Roundy 2 "

Every man to carry his gun loaded.

teams not to separate.

no man to leave his Co. unless he is sent for.

Tanner captain of the guns with 8 men.

Thomas Bullock clerk of the company.

oxen 8
cows 111 (?)
horses 9

Stitched Sheets No. 1, of A. Lyman's Pioneer Journal for 1847 & kept by

A. Carrington

Woodruff 1

Benson 2

Mathews

Harmon

Distances according to Mitchell's map from head of Grand

Island to the forks of Platte	50 :
from forks of Platte to Chimney Rock	150 : 200
Scott's Bluff	20 : 220
Ft. Laramie	60 : 280
Red Buttes	161 : 441
Rock Independence	52 : 493
Latitude $42^{\circ} 25'$ - South Pass	107 : 600
Longitude $32^{\circ} 10'$ W. Green river	80 : 680
from Washington & $109^{\circ} 10'$ Bear River	130 : 810
" Greenwich. Ft. Hall	60 : 870
Santi Fee Latitude $15^{\circ} 41'$ (?) 2"	
Longitude $106^{\circ} 1' 22''$, Lieut. Emory.	

Prest. A. Lyman with his company of pioneers left the camp of
interquarters April 6th 1847 & traveled 7 miles & camped. Prest.
Lyman rode to Council, stayed over night and came to camp.
[April 6th] Prest. Lyman had in the company 1 waggon, 3 horses & 1
riding mare. Starling Driggs and Albert Carrington to said waggon.
Bro. Farnabas Adams 1 waggon & 2 horses, himself and Roswell C. Stevens
in company.

A. W. Collins furnished 1 waggon & 2 mules.

John Gleason & Charles Burke go with it.

Joseph Mathews 1 waggon, 2 mules & 1 riding mare. Gibbard Lumme is with him.

James L. Flake furnished 1 waggon, 2 mules and 1 cow with a black man,

Green. Fielding Farr furnished 1 waggon.

Norman Taylor 1 horse, & A. P. Chesley 1 mare to said wagon. Daniel

Thomas furnished baggage waggon, 3 mules & 1 horse to go to Danril (?),

John Thomas driver, John Brown 2 wagons 4 mules, 4 oxen, 2 cows,

Mathew Ivory Daniel Powell, Blacks Oscar & Hark. - G. A. Smith's team came up.

[April 9th] G.A.S. the same day about 1/2 past 2 o'clock P. M. at 3 P. M.

same date A. Lyman & his company started & traveled 12 mis. & camped in the
open prairie about 1/2 past 8 o'clock P. M. Rodney Bauger one of our company
come up with us just before we camped. Chesley & Gleason & Adams & Lumme
volunteered to guard.

[April 10th.] Started at 6 a. m. & traveled 20 mis & reached the Elk Horn,
at 3 P.M. O Pratt W. W. Woodruff, & E. T. Benson with their companies
crossed over, guard J. Brown, J. Mathews, Ivory, K. Badger, R. C. Stevens,
Powell, C. Burke.

Randall the Scotch giant. Height 7 ft. 6 inches, round the chest
inches, round calf 20, round arm, 18 1/2. from tip of thumb to end of
finger 13 1/2 inches. Weight 432, wife in proportion. -

Prof. O. Pratt's measurements & calculations at Ft. John.

By a mean of several Barometrical observations taken during 3 days, the height above the level of the sea was 4090 ft.

By a Meridian observation of the sun the Latitude was $42^{\circ} 12' 13''$.

By a mean of 6 sights (?) Longitude west from Greenwich was 6 hr 56 m 47 1/2 s.

Width of Laraines Fork 41 yds. at the Ft.

Prest. Amasa Lyman's Journal of his trip as Pioneer from April 8th 1847 to April 11th.

p.l. A. Lyman left the camp of Winter quarters, Omaha Nation, with his company of pioneers April 8th/47 about 3 P. M. just as F. P. Pratt arrived from England. Traveled 7 miles & camped. L. Lyman rtnd to city. Country very broken; all quite and safe. In company, waggons and teams as follows; A. Lyman 1 waggon, 3 Horses, 1 riding mare. A. Lyman Albert Carrington & Starling Driggs with it. Barnabas S. Adams, 1 waggon, 2 horses, with Roswell C. Stevens. A. W. Collins furnished 1 waggon, 2 mules, John Gleason & Charles Burk with it. Joseph Mathews 1 wagon, 2 mules, 1 Riding Mare. Gilbert Lumme is with him. James M. Flake furnished 1 waggon, 2 mules, & 1 cow, with a black man, named Green. Fielding Garr furnished 1 waggon, Norman Taylor 1 horse, A. P. Chesley 1 mare to go with said wagon. Daniel Thomas furnished 1 baggage wagon, 3 mules and 1 horse, John Thomas driver. John Brown in company, with 2 wagons, 4 mules 4 oxen, 2 cows, with Mathew Ivory, David Powel, & 2 black boys named Oscar & Hark. A. Lyman rtnd about 2 P. M. G. A. Smith's team came up. April 9th himself soon after, 1/2 past 2 P. M. - April 9th, at 3 P. M. A. Lyman and company started, traveled 12 miles, & camped at 1/4 past 3 P. M. in the open prairie, Rodney Badger, one of our company came up with us just before we camped. O. Pratt, E. T. Benson & Wilford Woodruff with their companies, camped with us. Chesley, Gleason, Adams & Lumme stood guard; open, broken prairie; all quiet & safe. - April 10th started at 6 A. M. & traveled steadily til 3 P. M. reached the Elk Horn & camped; distance 20 miles; guard, J. Mathews, Brown, Ivory, Badger, Stevens Powel & Burke; Pratt, Benson & Woodruff crossed with their companies; country open, broken prairie, a view of the Platte river & bottom from the Elk Horn bluffs, bottom very wide & level with but little timber on the banks; all quiet and safe.

6 Waggons to go on & 13 men. 1 Baggage Wagon & driver. Distance traveled 39 miles. 2 wagons, 5 men with Br. Brown.

Sunday April 11th A Lyman & company commenced crossing the Horn, soon
er breakfast about 1/2 past 7 A. M. on a raft, & all crossed just as B. Young
& H. C. Kimball came up. about 10 A. M.; all the wagons were crossed and went
down the Horn 1/2 mile & formed a line. G. A. Smith on the extreme, all quiet.
John Thomas rtnd with the baggage waggon. 12th After early breakfast A Lyman,
with the 12 & H. C. Stevens & some others started back to Winter Quarters, I
sent a few lines to my wife. Most of the teams started on at the same time,
& 4 of A. Lyman's waggons, we traveled 11 miles up the Platte, the bottom very
wide & level, & camped without much order, there being no one appointed to
form the line. Col Markham afterward came up & formed a line the same after-
noon; Weather cool, cloudy, & windy;

The Platte is very wide, with low sandy banks, & shallow, swift current,
the bottom on each side is very wide & level, & the bluffs rise [p. 6] low
& sloping from the edge of the bottom. Col, S. Markham called the men
together about sun down, gave them some good counsel, about keeping the command-
ments, & to be careful, watchful and prayerful, & do as they were told by the
12 even to the smallest particular. It was voted to abide the counsel of Col.
Markham; H. G. Sherwood and Thos. Grover until the 12 returned. Jackson Redding,
Barnabas L. Adams, Tarleton Lewis, & Er. Case were appointed to start in the
mornng & hunt a ford or crossing on the Horn higher up to shorten the distance
from Winter Quarters & strike the Platte higher up & avoid some sloughs on the
East of the Horn & in the Platte bottom. all quiet & safe.

13th Elder Taylor returned to Winter Quarters from England. Redding, Adams,
Lewis & Case started after breakfast to hunt the ford. Driggs waded on to the
island for game, got nothing. The road committee returned & reported unfavorably.
Weather, light clouds, but pleasant. All quiet.

14th Cloudy, commenced showering soon after 7 A. M., quit showering about
11 A. M. cool. all quiet.

✓ 15th. Clear and pleasant, about 3 P. M. A Lyman with the 12 & R. C. Stevens

with a cow furnished by A. W. Collins & the 4 waggons that stayed at the horn came up. G. A. Smith & waggon came up about 1/2 past 5 P. M. Company called together & addressed by B. Young. Guard set. All quiet. (p. 2)

16th After breakfast the camp was called together, & formed in a double ring. no. of men 143. Women 3; children 2. Lorenzo Young being the only man who took his family; business opened by prayer by B. Young; remarks by G. A. Smith, H. C. Kimball, Bishop Whitney & Noble. Commenced organizing by appointing Cols. Markham & Rockwood captains of hundreds or of 72 & 71; Tarleton Lewis, Addison Evertt, Br. Case & John Pack captains of 50s; Charles Shumway, B. L. Adams, John Brown, Howard Egan, Seth Taft & the 12 who are along (8) captains of tens; Col. Markham was appointed Captain of a standing guard & he picked out 50 men, 12 on at a time, to stand 1/2 the night. The leather boat came up on the 15th & was in the ring. A Lyman, myself, Adams &c sent letters back to our families. No. of waggons 72, besides the boat. At 2 p. m. Started & traveled up the Platte 4 miles & camped in line at 4; distance 4 mis [miles]. Weather cool & cloudy. The road keeps up on the bank of the Platte. Instruments brought by Taylor & Pratt, 1 artificial horizon, 2 Sextants, 2 circles of reflection, 2 barometers, 1 telescope, several thermometers. A Lyman went ahead & looked out a camp ground; cool and cloudy.

17th Started soon after 8 A. M. traveled up the Platte 7 miles & camped about 11. Thermometers, an hour by sun, stood at 26°, wind very high & cold, some cloudy. At 5 P. M. the camp were called together & formed in tens. Prest. B. Young proposed that we organize as a military body. B. Young was elected 1st Lieut. General S. Markham Col., John Pack 1st [p. 7] Major, Shadrac Roundy 2nd Major. Prest. Young then told every man who walked to carry a gun loaded & the teamsters to have theirs where they could put their hands on them easily; teams to travel by 10s [tens] & not separate, no man to go out of the ten unless sent. Thomas Tanner was appointed captain of the cannon with 8 men. Thos Bullock clerk of the company. A. Lyman with his waggon &

B.L. Adams with his were formed into the line next to H.C. Kimball. In forming into 10s E.T. Benson was captain of the (p.3) 2nd 10, with waggons & men as follows; Doct Richards, Thos Bullock & George Brown, with 2 waggons, Amasa Lyman, Alber^y Carrington, Starling Driggs, Barnabas L. Adams & Roswell C. Stevens with 2 waggons. E. T. Benson & Thos. Grover with 1 waggon (5 waggons & 10 men) all quiet.

List of the men belonging to the standing guard, drawn from A. Lyman's company. B.L. Adams captain of 10, M. Ivory, D. Powel, J. Mathews, A.P. Chesley, G. Lumme, R. Ladger, C. Burke. A trading waggon from the Pawnees belonging to Benway camped just below our line; they had a Spaniard, whom they had redeemed from the Pawnees;

18th. Sunday. Wind high & very cool from the wouthwest, cloudy; towards evening wind high but milder & but little cloudy. 5 waggons belonging to Sarpee came down from Pawnee with peltry. Feed, cotton wood & corn. A tree was fell on an ox, hurt some, but he walked off in a short time. Ellis Eames went back, in company with the trading teams; he got disheartened being sick. Thermometer at 5 P.M. air 53 5/10, mercury 52 9/10, Barometer 28 78/100. Captains of tens Wilford Woodruff 1st, E.T. Benson 2nd, T. H. Young 3rd, Johnson 4th S.H. Goddard 5th, C. Shumway 6th, Case 7th, S. Taft 8, H. Egan 9, A.P. Harmon 10, John Higby 11, L. Jackman 12, J. Brown 13, J. Mathews 14. E.T. Benson called his 10 together, & gave instructions as follows, at 1/2 past 8 the bugle to sound & all to attend prayers & all to be in bed and the fires put out by 9; at 5, A.M. the bugle to sound & all to rise in their beds & attend prayers, & every one be ready to start at 7; every man who does not drive a team, to walk beside his waggon, with a loaded gun lock leathered & caps ready. The sound of the bugle at other hours to be an alarm. E.T. Benson resigned & Thomas Grover was elected captain of the 2nd 10. Camp to form in a ring with the off fore wheel

against the high hind one of the lead wagon, tongues out. All quiet.

19th. Warm & pleasant; started at 1/2 past 7 A.M. & traveled till 2 P.M. 12 miles road dry & level up the Platte bottom, camp formed on the bank of the river; soon after we camped O.P. Rockwood, J.Redding, J.C. Little & Thos. Brown came up horseback (p.4) after resting & bateing [feeding] traveled 8 miles, road as usual, weather quite warm but some cloudy; camped in a semicircle on the Platte. Platte as usual very wide, from 1 to 2 1/2 miles & studded with islands; the bottom on the south side appears narrow at this point, & all our route today & the bluffs rise bold from its edge, like those on the Missouri, along the route from the road to the cliffs the bottom will average 10 miles. Receive a vial of gun cotton as a present from Thos L. Kane by the hands of Elder J.C. Little of Peterboro N. H., Saw one Indian at a distance on a horse or pony. Latitude 41°27'5". [p.8] All quiet. Took a glass of brandy with the 12 & a few others, at the invitation of O.P. Rockwell which he received as a present from Thos. L. Kane.

20th. Started 1/4 to 8. traveled 2 or 3 miles & crossed Shell creek, 4 or 5 yds wide, rested at noon, Latitude 41°25'2", camped in a semicircle on the bank of the Platte, at 1/4 past 4 with brouse plenty, & handy, distance 18 miles. The fishing party who went ahead in the morning had caught some fine buffalo & carp (213). A Lyman got a large buffalo for his mess. road dry & very level, face of the country & river as yesterday. Weather warm, a fine breeze & some cloudy. A.L. visited a village of prairie dogs, J. Mathews shot one. Found the skeleton of an elk with very large antlers.

21st. Started soon after the ox teams, which all started together, (21) met a few Pawnees, towards noon, who were very friendly; past their village & trading house, something like a mile off our left, stopped to rest on the Loup fork, several Pawnees came from their village; some

presents were made to the chief he appeared dissatisfied, by the brethren, A. Lyman presented a hand of Tobacco. Weather in the morning, cloudy, sprinkled a little, about 3 P.M. it commenced thundering & lightning & rained quite hard for an hour or more, the wind then became quite high, & continued so sometime. Camped on the Loup Fork & its scenery is precisely like the Platte; only the stream is much smaller. (p.5) (From 19th to 21st, miles 8 plus 18 plus 22 - 48. Whole miles [traveled] 121.)

A very strong guard was put out on a/c of our nearness to the Pawnees, A. Lyman was one. the first half of the night. Not disturbed by Indians.


22nd. Traveled about 1 3/4 miles & crossed Looking Glass Creek, about 6 yds wide, at a good ford; at noon reached Beaver Creek 12 or 14 yds wide rested & crossed at a good ford. Latitude at this place $41^{\circ}25'13''$, meridian observation by Prof. O. Pratt. camped on Plum Creek at the missionary station. Feed good hay put up by the Brethren last summer & corn fodder. weather, clear & warm with a pleasant breeze. Distance 18 miles. This missionary station was for the Pawnees, & was under the superintendence of the Rev. J. Dunbar. It is beautifully located, (for this prairie country) on Plum Creek about 1 mile above its entrance into the Loup; on the second bottom. The view on the North & West is bounded, at a distance of 1/2 to 1 mile by a low range hills, through which Plum Creek comes from the North, fringed on its banks by cotton wood, elm, coffee nut, burr oak, ash willow. To the South & East the view is open, commanding the Govt. Station, the Loup & its Islands & bottoms for some distance & the dividing ridge between it & the Platte. The Station had 2, 1 story & 1/2 hewed double log houses, quite well finished & 4 other log dwellings, with several out houses & yds. & some 80 acres of ground fenced & broken & cultivated with corn. The only furniture left was the castings of a premium No. 5 & a rotary cooking stove. The missionaries left this station last summer

for fear of the [p.9] Sioux. The Government Station was situated about 1/2 mile below the M Station, on the opposite side of the creek; it apparently consisted of some 6 or 7 buildings, on 3 sides of a small square with the South side open & picketed, & a blacksmith shop about 200 yds. lower down. 1 log stable, near the picketing was all the building left by the Sioux, when they burned last summer. Laying about the ruins were some 17 plow irons, several waggon tires, (p.6) waggon boxes, bands & other irons, & some wagon wheels, with several flat & square bars of rolled iron, & some slab iron &c. Quite a surface of ground had been broken about the station in different patches, & some of it cultivated with corn.

From 21st to 22nd, miles 18 - whole mileage 139 miles.

23rd. Started out at 1/4 past 12. M. having occupied most of the forenoon in company with several of the Brethren in looking for a ford below the mouth of P creek & crossed the creek at a ford with quite steep banks, rolled on & crossed creek in about 4 miles at a ford about 4 yds wide & stopped in the Loup, where Bishop Miller crossed last summer, distance 6 miles. Prof O. Pratt, crossed with his carriage, with the aid of several men; Elder Woodruff then drove in with 2 yoke of cattle before his horses & several men with a drag rope & crossed. Br. J. Pack also crossed with his waggon. The Prest. then ordered the rest to go on about 1/2 mile further & form all for camping, which was done about 1 hour by sun. P.M. The Fording was very bad owing to the quick sand & consumed much time and labor, even to get over the three wagons.

Our camp was within 1/2 mile of the ruins of the Pawnee village, it was partially burned last summer by the Sioux, when they burned the Govt. Station, the Pawnees were away at the time. When they returned they rebuilt the burnt portion & built several other lodges; they were burned out again by the Sioux last winter, & only 2 lodges are now entire; apparently

their council lodge, with a diameter of about 50 ft. in the clear, inside. The lodges were built circular, & probably averaged about 39 ft. in diameter & with their stables occupied some 10 acres of ground. Their corn was put in holes dug in the ground like this  opening from 18 inches to 2 ft. & lined with bark or puncheon, or matting. A horse belonging to Prest. Young died last night, cause unknown, as there were many opinions, probably choked to death by his chain halter; weather very pleasant.

24th. The site of the ruins of the Pawnee Town has been a noted place for many years, & at the time it was burned, there were above 6000 inhabitants, being one grand band of the 2 divisions of the (p.7) Pawnee Nation, which has been for many years & is yet the terror of all the Western tribes. The Site is very beautiful, being on the North side of the Loup, where the 1st bluff rises abruptly from the water's edge some fifty ft. & forms a very level second bottom, bounded on the West by Willow Creek at the distance of about 1 mile on the North at the same distance by a range of gradual rising hills, which form a ridge at the height of the general elevation of the country laying North, & running round to the South East & sloping down to the first bottom at a distance of about 2 miles; facing South & looking to the East & west it commands in the foreground, a view of the Loup & its islands for some 8 or 10 miles & [p.10] in the distance the low ground between the Loup & Platte, & the timber of the Platte islands at an apparent distance opposite of about 15 miles. The ruins occupy a space of from 15 to 20 acres, some think 40; the number of lodges from appearances was above 200, with only 2 entire; they were all built circular, with an entrance way of from 5 to 10 ft. long, 4 or 5 ft. wide & 6 ft. high; their average diameter in the clear was about 40 ft. varying from 20 to 60 ft., height from 12 to 20 ft with a hole in the top from 2 to 3 ft. across for the escape of the smoke, & covered with earth to some depth. In building they threw out the earth level to the depth

of about 1 1/2 ft., they then placed firm in the ground a circle of strong forks at equal distances, & laid strong poles in them, then small poles were placed around with their tops resting on the horizontal ones, & secured in their places by raw hide ropes, for the relative position see figure 4. the next row of forks & poles were disposed of as the first, except they were placed more upright, & were of course longer & fewer in number, the 3rd course of covering poles were sustained at their extreme ends, by being firmly lashed together with raw hide ropes, & converging to a center at the top to form the circular outlet for the smoke, were quite strong; the whole was then covered with grass & earth. (p.8) Interspaced, were their horse pens, built of small poles from 10 to 15 ft. set in the ground uprightly & close together, & bound at the height of about 5 or 6 ft. by horizontal poles lashed on with rawhide; also the holes for securing their corn. They had partially fortified their Town by a low embankment of earth & sod. As you go North from the ruins across the level plain & rise the gradually sloping hills, you pass several graves of their braves, & some on the height of the ground; they were buried in setting posture, facing the East, the opening being covered with poles & matting, & a circular mound of earth & sod to the height of 4 to 6 ft. raised upon it. The view from this height, varied from that of the Town, in looking South to the right & left facing South, in commanding a more extensive prospect of the Loup & Platte, & the low prairie between them, to appearance as far as the eye can extend up & down, the 2 rivers seem to run nearly parallel. As you turn & face the North, you see an open, rolling prairie, at a very uniform elevation, with neither tree or shrub, except on & near the margins of the small creeks emptying into the Loup. Around the common burying ground, were laying numerous human bones & skulls, dug up by the

wolves, & beads. Weather very pleasant. Between 8 & 9 A.M. movements were made to cross the Loup, the route across the river was staked off, & the teams waggons commenced fording, some unloaded, others 1/2 loaded but the majority with their loads, all doubling teams, meantime the boat was busily used for carrying over goods from the bank opposite the camp ground. As the teams passed & repassed, keeping the same track, the ford kept improving, by the quick sand packing, until the last waggons with full loads, passed over more easily than the first ones did empty. Everything was got over safe and sound by 4 P. M. for which we all felt to thank the Lord. We then rolled 4 miles & camped on the Loup, the prairie having been burnt, the grass looked quite green. Weather very pleasant. The 2 rafts, that the council decided last night to build, were built this forenoon in good style and season. S. (p. 9) Driggs assisted; a man crossed on one of them & left it on the sand bar, [p. 11] the other was let go adrift about 3 P.M. showing that our raft men were correct in their judgments, which were that a raft could not be managed to advantage in crossing goods over so strong & boiling a current.

From 22nd to 24th. miles 6 1/2. whole mileage 145.

Sunday 25th Another very pleasant day, but more wind. Brs Chesley, Taylor, Mathews, & a black boy named Green, started for the Pawnee ruins, for raw hides from the horse pens to make ropes of. Brs. Driggs, Stephens & Carrington went to washing, finished about 11 A.M., rested & read awhile, & about 2 P. M. Brs. Lyman, Carrington & Driggs took good wash & swim in the Loup, just below camp. Between 4 & 5 P.M. the Brethren, were called together, and addressed by G. A. Smith, pres. Young and several of the brethren, G. A. Smith advised the men not to kill game they did not need, nor shoot ducks & geese & let them go down stream. Prest. Young said he was perfectly satisfied with the camp, & with our movements, & he had never been in company with so many men under like circumstances where there was so much union & harmony. Also remarked that wherever you find a man fond of binding

up men with covenants to him, you may mark it, that man & the ones bound with him, will sooner or later be bound to be burned, & he wanted the camp to learn wisdom all the time & treasure up knowledge. Br. Chesley upon his return, in crossing the river, rode into some quick sand holes, & his mare after flouncing about for sometime, finally turned over on her back & him under the water all over, when he had to let her go [&] and rifle he had, to extricate himself after doing which he hunted some time for the rifle but the quicksand & the deep & rapid channel just below prevented him from finding it. The rifle was worth some 10 or 12 dollars & belonged to Rooney Badger. We saw Antelope today across the Loup.

26th. We were all roused to arms by the sound of the bugle just before daybreak; the alarm was caused by the guard firing upon some Indians, who had crept upon the line (p.10) within 2 rods, they ran, & the guard counted 6. Their moccasin tracks were plain to be seen when day broke. No damage done. Started at 1/4 to 8 A.M. Stopped to rest at 1/4 to 12 M. The ruins of an old Pawnee town could be easily seen from this point, at a distance of about 4 miles N.W. across the Loup. Started at 1/2 past 1. crossed a great number of Indian trails, all converging to & diverging from the old ruins. Passed a little on our right, the ruins of another old Indian village, located like the others, at a point where the bluffs rise bold to the second bottom; there had been 10 or more lodges some quite large & the ground around had been cultivated to some little extent, & the old vegetation appeared very rank. Rolled on & stopped at 1/4 past 4 on the steep banks of a small creek, rising in the dividing ridge & emptying into the Loup. The camp was formed under the high bank, directly on the margin of the creek, at the distance of 1/2 to 1 mile from the Loup. The bed of this little creek is rocky, (limestone). Buffalo grass & artimesia (or wild sage) occurred occasionally in patches today, & near our camp there was

considerable buffalo dung. No road this day, only as we made it. If a person does not consider timber, an essential, [p.12] in beautiful scenery, then the scenery today, all of our route was very beautiful, as we passed up on the edge of the second bottom of the Loup, commanding a view of the level bottoms of the Loup & its dividing ridges. Weather as usual very pleasant. Time 7 hours. Distance 19 miles. Br. Little's & Doct Richards horses strolled off to a distance back of the camp, & after dark (by moonlight) a good deal of search was made for them, but unsuccessfully.

From 24th to 26th. April. Whole No. miles 149.

27th. Started at 8, at the same time Ers. Rockwell, Mathews, Thos. Brown, & John Eldredge, started, to look for the 2 missing horses, rolled on & turned out to rest at 2 on some good grass, 5 or 6 inches high, started at 1/2 past 3 & rolled on till 1/2 past 5, & camped by a creek with sandy bed, about 2 yds wide, & emptying into the Platte; time of travel 7 hours, distance 18 miles. We have made our own roads for the last 2 days, seeing no other waggon tracks. Buffalo (p.11) dung & bones were quite plenty on our route. Some antelope were seen, & Ers. Brown & Stevens shot one. passed a village of prairie dogs, & with them in one of their holes, was a rattlesnake, in another an owl. Buffalo & muskete grass quite plenty, which with other kinds of grass made the prairie look quite green. Most of the route there has not been a tree or bush in sight. General course S. W. by S. (to strike the Platte), over a surface whose general elevation was quite level, but more or less uneven from the effect of the wind on the light sandy soil. Owing to the great proportion of sand in the loam, & probably to dry seasons & but little dew the grass is disposed to grow in bunches. The teams suffered this day from want of water, there being none from creek to creek. Weather some cloudy but pleasant & warm, about 5 the wind blew quite strong a few minutes & it sprinkled a little. The Brethn.

who went out for the horses returned, just before dark, & reported that they found where the Indians had tied 1 horse all night, & soon struck the trail of both horses, going back, which they followed to within a short distance of Sunday camp ground, when all at once at a short distance off there rose up on their feet 15 Indians, & came towards them, their object was to get their horses, but failing & being told to put out, they retreated towards the timber a short distance off on the Loup, & as they went they fired 6 times at the Brethn, but without effect, the Brethn. did not fire but returned. These Indians the Br. knew to be Pawnees. Soon after the camp formed a horse of Lewis Barney's was shot in the fore leg just below the body, & the bone broken very badly. It was done accidentally, on a/c of some rifles being laid in a waggon & capped & one of the Brethn. in pulling out his coat raised the hammer so high that the gun went off. Came in view of the Platte about 1/2 past 4.

From 26 to 27th. April. miles $19 + 18 = 37$. Whole No. 186 miles.

28th. The horse that was accidentally shot last night, was shot this morning to put it out of its misery. (p.12) The 4 horses dead & missing, were all lost through carelessness. Crossed the small creek before us, ford quite muddy, Traveled 6 hours, distance 15 miles, up the Platte, as we supposed opposite Grand Island, over a country very level even for this level region, soil as usual, vegetation ditto, no timber except on the Island. Weather cloudy, some cooler, & quite a breeze all day. A. [p.13] Lyman shot a wild goose. Camped in a circle, waggon tongues out, a few antelope were seen today & a few deer upon the Island. Our horses, for a few feeds have had but 1 qt. of corn per head at a feed, 2 a day, & seem to hold their own. Struck an old Indian trail, with now and then a waggon track to be seen.

29th. Weather pleasant, cloudy & some cool in the evening. Crossed a creek about 8 yds wide at a good ford, supposed to be the Wood River of Mitchel's map, scatteringly timbered with cottonwood, elm, white ash, willow, Plum trees, &c. the latter in blossom. Time of travel 7 hrs. distance 18 miles. Feed, rushes on the Isleand, cotton Brouse, grass, & corn. A few deer, 20 or 30 antelope & many geese seen, 2 of the latter killed. A Beautiful section of level land with a quick soil lies between Wood River & the Platte with plenty of timber if used carefully. Grass not sufficient to sustain teams without they lay still.

30th. Started up the Platte following the old trail. Watered at 12 in a small creek, a point in the trail where the next company should stop over night. rolled on till 5 & some teams being faint, we camped, without wood or water, except a little we dug for, distance to the Platte over 1 mile & no wood then on this bank & the ground between boggy. Briggs shot a goose, P H Young took it to dress for the feathers. Travel time 7 hrs, gait quite slow, distance 17 miles. Weather, smoky, wind very high & cold from the N, thermometer at sundown 41, my fingers are so cold I can hardly write. Slept warm. Scenery & soil as usual, no timber, except on the Isleand.

May 1st. Theromometer at sunrise 30°. Weather cloudy & very cool, with high wind. Travel time 9 hrs. distance 18 miles. Teams traveled together, some ox teams very weak, from want of feed. Camped about 2 miles above the head of Grand Iseland, on one of the ravines which make down from the bluffs, with a few trees on it, and water in the holes. The road most of the day was quite uneven, on account of occasionally ravines making down from the bluffs, & the wallow holes of the buffalo that occurs very frequently & has for some 40 miles, also from the prairie dog holes, which cover a surface of 1000 acres, with the vegetation so closely eaten by dogs, in many places that fire will not run. No timber, except on the Islands, & a few trees on the

reeks & ravines. We saw Buffalo today about 10 A.M. for the first time. 3 or 4 at first, then quite a herd along the face of the bluffs about 4 miles off & a little ahead, past noon we halted a little, & several of the brethren took horses, & large pistols, & started for them, we had a fine view of the chase from our line, A. Lyman & John Brown, singled out & killed a fine cow, J. Mathews killed a fine calf &c. altogether there were killed 7 calves, 4 cows & 1 bull, we had a fine lot of good meat for supper, better than beef.

May 2nd. Sunday. Thermometer at sunrise 20°, most of the brethren busy taking care of their buffalo meat. Weather, clear & pleasant in the morning, but soon clouded up & became cool again. We started about 4 P.M. & rolled 3 miles to get better feed, camped by a prairie run, close by (p. 13) Platte; no wood but small willows. Our goose came back, looking pretty blue. Young pretending he had forgot who he got it of. Ice froze last [p. 14] night in the water bucket 1/2 inch thick. Latitude at our Saturday night camp, by Meridian observation, by Prof. O. Pratt 40°41'42", our camp being about 2 miles above the Island & almost opposite as near as we could tell, where Fremont took an observation at a distance across the river of between 2 & 3 miles making the observation in amount agree, counting out the N & S distance between them. The Saline efflorescence of Fremont that occur so frequently, as far as one can judge are the Lord's salt dishes for his cattle, & as far as we can analyze them, with the tongue, they contain salt, a small proportion of salt peter, & a small proportion of sulphur; the latter two we are not positive about, they have the appearance at a little distance of scattered ashes, being a thin whitish incrustation on the surface.

(April. From 27 to May 2nd. miles 15 ± 18 ± 17 ± 18 ± 3. Whole No. 257 miles. Distance from Winter Quarters to head of Grand Island 252 miles.)

[May] 3rd. Weather cloudy, but little wind, & warmer after breakfast

several men went out to the bluffs, to still hunt buffalo, among them A. Lyman & S. Driggs. In the afternoon wind higher & quite cool. The hunters returned with 2 antelope, S. Driggs shot one of them. A small party went up the river to explore the route; they went 10 or 12 miles & one of the party saw some Indians, & they all returned. A party was sent out to notify the hunters of the nearness of the Indians. We lay by today to rest our team & let them feed, as our corn was getting scarce, hunters of the hunters came in about dusk, & brought 2 calves they had killed. About 9 A.M. the cannon fired to let the Indians know we had one. S. Driggs accidentally lost H.C. Steven's pistol.

4th. About 4 A.M. cannon fired again. The sun rose clear & pleasant. We crossed the little run, before us easily, at its outlet. Platte here, about 2 miles wide, well named, Nebraska, or shallow water. Some timber at the head of the run we crossed, & a few trees, occasionally on the bank of Platte, Timber on its islands getting scarcer. Towards noon, 3 trading wagons called a halt opposite us, on the Oregon route; one of their men waded over, deepest water, knee deep, his name was Charles Beaumont; 2 men in the company, with peltry, 10 days from Ft. Larimie. He came over for sugar & coffee, We improved the short time he would wait, & handed him 54 letters for Winter quarters, & presented him with about 1/2 bushel of bread & flour, an article he said he had not eaten for 2 years, he was very friendly & said he wanted no maney for taking our letters. Mrs. J. Brown & Woolsey went over to see their leader, we went on about 3 miles & turned out to wait for them. Grass poor, prairie recently burned by the Indians. J. Brown & Co. returned & reported pretty good feed, & a good hard road, (Oregon route. The camp was called together, report heard, remarks made, & in view of all we knew, it was voted that we keep up the N. side of the

Platte, till we get to Larimie.

Traveled 11 miles & camped near Platte, by a clear prairie run & in pretty good feed, not burnt. Camp was called together in the morning, laws read, & 6 volunteered to aid the standing guard, A Carrington volunteered. No fresh sign of Indians in our neighborhood except the burning of prairie grass, on our right, near and among the bluffs, opposite & ahead & back, probably burning for the buffalo range. [p.15]

[May] 5th. Sun rose clear & warm, wind S. Buffalo feeding round in sight just outside our stock. Crossed the run before us at a good ford & kept up the Platte between the old trail & the river, over fresh burnt prairie, wind very high from the S. severe on teams & men, some of the road sortish, better to have kept the old trail, about noon took on the old trail, & rested a little, feed poor; the men horseback chased some buffalo, killed 5 calves & 1 cow, & took 1 calf alive. A Lyman killed 1 calf, J. Matnews the cow &c. about 4 P.M. came to a wall of fire reaching from the River to the bluff, we quartered, back about 1 mile & camped on the Platte, found a good patch of feed. Distance 14 miles.

[May] 6th. Quite pleasant; started 1/2 past 5 A.M. in order to pass the fire ahead, which was well damped down by the night & a shower about 3 A.M. passed the fire and a strip of old grass turned out to feed. R.C. Stevens killed an antelope. (p.14) The calf that we took alive got kicked by a horse or mule, last night, & killed; just before we turned out at noon a very young calf followed Luke Johnson into camp, they put him in a wagon. About starting time, Prest Young & a few other men, rode out to prevent our cows from mixing with the buffalo, the Prest. lost his spy glass. Went to look at a poor old buffalo cow, who soon lay down while we were all looking at her. Camped in a semicircle on the bank of Platte, distance 20 miles;

feed poor, teams failing. No timber on either bank of Platte, yesterday nor today, quite a breeze from the W. C. volunteered as night guard.

(May. From 2nd to 6th. 11 \pm 14. Whole No. 282 miles. May 4th.)

[May] 7th. A. Carrington stood from 1/2 past 12 to 1/2 past 4. 6 to 10 standing guard. Wind very high from the N. waiting for an axle tree to be fixed, & our teams to fill themselves; buffalo all round; fuel last night & this morning, a little wood & buffalo dung. Camp called together, to see about team for the cannon &c. Br E. Snow, received quite a chastisement from the Prest. for neglecting the cows yesterday. Started at 1/4 to 11 and traveled till 3, distance 8 miles. Buffalo in great abundance, & passing to & from the river, & playing, old & young. Camped in a ring on the Platte, feed tolerable good. Camp inspected military fashion. O. P. Rockwell found B. Young's spy glass. Very cloudy & quite cool towards evening. Sprinkled a little. A. Lyman killed a pole cat.

8th. Sun rose clear, no wind, weather quite warm; road over level ground, but rough from the multitude of trails running across our track from the bluffs to the river, made by the buffalo passing to and fro, & by shallow basin like places, they make in passing & wallowing; halted about noon to rest; the whole bottom has the appearance of an old fed out pasture, only the dung is almost as thick as it usually is about a barn yard; the grass is so closely fed out, that the weeds are quite thick. The herds of buffalo this forenoon have been countless, almost extending on both bottoms from the river to the bluffs in such numbers, that the ground on the opposite side appears black, & width on both sides about 4 miles. Length about 8; as we passed up the river near the bank, the buffalo would beat back, & as we halted, in front of us the lines of [p. 16] buffalo reaching from the river to the bluffs, looked like a solid dark wall, depth back unknown; feed poor; O. P. Rockwell killed a cow. While nooning Smoot's 2 horses

went out, to see the buffalo, a few 100 yds off & commenced running with them, & Grover & J. Brown, had quite a race, on their horses to head them & get them back. Rolled on & camped in a semicircle on the bank of the Platte, just below where the bluff, cuts off the bottom, for a short distance. A. Lyman went ahead about 4 miles to look out feed &c to lay by over Sunday on. Found a better place than this. Distance 11 miles. Sunday [May] 9th. Rolled on 4 miles to find better feed. Passed the point of the bluff by taking down the bank & keeping up the sandy beach bottom 1 mile & came out on the bottom again very easily, but in case the water should be high, the hills are easily passed over. Camp called together at 3 P.M. W. Woodruff made a few remarks felt well; O. Pratt also felt well, but though it uncertain whether we could return on account of the distance this fall. A. Lyman spoke upon the principle of learning all the time to be patient in the school we are in, which would be better to us than gold or silver. Camped in a semicircle on the bank of Platte, bottom narrower, about 1 mile wide here, soil more sandy. Some of the boys had quite a play with the horns & tail of a young bull, some poor. Several buffalo lay along our route on the 8th dead, probably from starvation generally.

[May] 10th. A board was put up on a post, with a letter in it, for the next company, writing on the board one side, "look in this & you will find a letter", on the other "316 miles from Winter Quarters, western bound Pioneers. Cool, wind N. E. Rolled on over a better soil and ranker growth of grass not burned; crossed a clear, gravelly run 6 yds wide. Rockwell & T. Brown, chased a wild horse; a good many buffalo (p.15) feeding at the foot of the bluffs. Joseph Hancock killed a 3 yrs. old cow, meat good. Nooned; clear & warm; better grass. Bottom widening again, from 1 to 3 miles, soil quick & good, well watered; rolled on, crossed another narrow

run; a deer killed; The bluffs are low ranges of hills generally, in many places on their sides & tops perfectly naked, & cut up into holes & ditches &c by the effect of wind & rain on the higher soil; 2 gorges in the ridge for the passage of the runs we crossed. Camped in a semicircle on the bank opposite an island with plenty of cottonwood brouse, grass better, water & wood plenty. A. Lyman shot a hare, meat tough. Some cloudy, but little wind. Distance 10 miles.

From 6th to 10th of May 20 ± 8 ± 11 ± 4. Whole No. 325 miles.
(May 7th. Longitude by Prof. O. Pratt, 100° 5' 45".)

[May] 11th. Sun rose clear, no wind, air cool, a few high clouds, blacksmithing going on. Horn sounded at 4 A. M. Started at 1/4 to 10, rolled on, with the bluffs, about 1/2 mile on our right, & long island in the river, with several small & a few large cotton wood trees & several small cedar on it, the bottom on the S. side appears very narrow & the bluffs according to Fremont, from 2 to 500 ft. high, elevation very sudden for sand & clay & much cut up into points & ravines, but opposite our camp [p.17] they begin to slope down & become smoother. At 1/2 [to] 12 watered. Passed over a low spur of the bluffs a short distance, bottom widened again directly to from 1' to 1/2 miles, crossed a gravelly run about 5 yds. wide, went on 1/2 mile & camped in a circle about 3/4 mile from the river. Feed middling. Distance 9 miles. Warm through the day, cloudy, breeze from the South. But few buffalo seen. Latitude 1/2 mile W. of camp, by M. [Meridian] observation, by Prof. O. Pratt, 41° 7' 44".

[May] 12th. Horn at 4. Quite cool, wind S. E. crossed a small run, nooned, A. C. & several others went back into the bluffs to hunt, several buffalo about, quite thin in flesh yet, J. Mathews killed a 1 yr. old buffalo heifer. A vertical section of the hill country, taken anywhere,

within the distance we went back (between 1 & 2 miles) & as much farther as we could see, would present the same view as from the bottom. An isometric sketch of the hill country would present innumerable peaks & knobs, more or less rounded, with deep circular holes, & with ragged edges in many of them, & between basins of all sizes, from a few yds across to 1/2 a mile, & ravines shallow & deep, long & short, & all over the surface, rough & smooth, run buffalo trails, & scattered very thickly, buffalo bones & dung. Soil light colored marl; as deep as any of the ravines will show, stained in places by iron rust. Grass scant in many places none, from the effect of buffalo pawing, rubbing & wallowing & the force of the wind on the light soil when the grass roots are thus torn up. Distance 12 miles. Clear & warm in the P.M. camped in a circle near the mouth of a small run; & about 1 mile from where some Indians probably Sioux, had camped & left some week or 10 days ago; they had killed several buffalo & left their old moccasins. A. Lyman rode in his waggon, being unwell.

[May] 13th. Quite cool, cloudy & wind N.E. & high; crossed a small run; rolled on, & crossed a small clear, shallow, quicksand bottom* stream, about 10 yds. wide & camped in a semicircle on its bank & near its outlet, supposed by G.A. Smith to be the rawhide of the traders; it is probably some considerable length as it makes quite a passage through the bluffs, & affords considerable water; it is the first stream of any size we have crossed since Wood River. Distance 11 miles.

[May] 14th. Cloudy & cool, wind S.E. commenced lightening early & about 9 rained quite hard for some time, cloudy, cool & showery through the day; our course wound round through the hills, to avoid a point in the bluffs, where they come to the water quite bold, for about 1/2 mile & about 1/2 mile above our camp; come on to the edge of the bottom again & nooned.

*Junction Eluff Creek. [A. C.]

J. Higbee killed an antelope. This point of bluffs is directly opposite the commencement of the high ground between the N. & S. Fork, it commands a good view of the head of the level ground between the 2 forks, with an occasional glimpse of the water of the S. Fork, the course of the N. Fork for a long distance, studded with small islands, with not a tree & hardly a bush in sight in any direction; you can also see, looking S.E. the point of junction of the 2 Forks, at a distance according to Freemont of 18 1/2 miles, from the point of high ground between them; the average breadth of the level land between the Forks (p.16) is some 4 miles length [p.18] 18 1/2. The average width of the N. Fork so far is about 3/4 mile, very shallow, with quick sand bottom. Since the junction, the bluffs on both sides have taken a lower elevation, probably about 150 ft., smoother & more grass upon them, & opposite our resting place all three of the ranges take about the same elevation, the middle rather the lowest, & as far back as one can see to the N. or E & N.W. the hills look like billows on the ocean in a high storm. Bluffs this day, composed mainly of sand, still grass grows on them, sufficient to sustain cattle. T. Brown killed an antelope, also P.H. Young 1, J. Higbee a badger, Luke Johnson & E. Glines (?) a bull, meat brought in next morning. O.P. Rockwell shot a bull & A. Lyman, J. Brown, Stevens &c, pursued it some distance into the bluffs & killed it, but as it was late & they far off, only a little of the meat was brought in. Camped in the form of a letter S, owing to a mistake, about 1/2 mile from the river & from a low spur of the bluffs, making to the water. Feed good, Distance 8 1/2 miles, road winding, to get through the hills, & sandy. In the first watch an object supposed to be an Indian creeping on the horses was fired upon by R. Badger, & it made off without saying good by.

From 10th to 14th of May. 10 ± 9 ± 12 ± 11. Whole No. 367 miles. Rain 14th. (12th. A M Harmon fixed a roadometer, by which we have since measured.)

[May] 15th. Cool & cloudy. Wind N. W. began to rain, about breakfast time, quite hard, wind pretty high, started while showery & wound through the low hills, about 1 mile very easily, with the exception of the sand, came on to a narrow & wet bottom, sandy by the edge, & grass good, stopped to feed showering all the time; P. M. a little showery, rolled on & camped in a circle about 1/2 mile from the Fork, O. P. Rockwell killed a bull. Distance 7 miles; bottom wetish, feed good.

[May] 16th. Cloudy & very cool, wind N. N. W.; in the P. M. some warmer and not so cloudy. Camp called together, for meeting, Cols. Markham & Rockwood gave some good advice, & Elder R. C. Kimball, some good teaching, partly as follows, not a man of us will fall if we go straight &c. learn by precept also by example, that you may profit by the experience of others &c. I shall not kill game on the sabbath, unless it is necessary; if a man does wrong do not follow his example, but that of the good; we shall receive more glory for faithfully performing this mission, than for any other we have ever engaged in; have no malice; I believe angels go before us day by day. Angels were seen by the brethren in going to Jackson, in Zion's camp, in 1834; 9 of that camp are in this.

E. Glines killed a bull, and an antelope.

The small runs we crossed, spring some mile or 2 in the bluffs, & are more numerous, than heretofore, bluffs not quite so sandy. The country for some distance back, in the bottom & on the bluffs is so closely pastured, that there is no appearance of fire having run over it for years; a few wells dug, water tastes of iron rust. Buffalo plenty all the time.

[May] 17th. very cool, some cloudy, wind W. N. W.; A. M. Harmon put [p.19] another wheel to his roadster, gaged for 10 miles; rolled on & passed a low spur of the bluffs, for about 2 miles, road when it struck the

bottom, was made along the edge of the bluffs; bottom for some 10 miles will average about 3 miles in width, quite wet, near the bluffs, crossed several small runs & some sloughy places, & a good length of wet ground, & camped in a circle; within about 1 mile of the river. We passed a point where the bluffs come to the water's edge on the other side, for the first time, & continue so, about 1 then a space of very narrow bottom, then the bluffs again come down quite bold, for about 1 1/2 miles, with cedar trees, scattered over the sides & in the hollows. The road to all appearance would have been better if we had kept up on the river bank, from the hills we crossed. 3 bulls & 2 antelopes were killed & brought in. A. Lyman killed 1 of the lopes; quite warm from 10 A. M. 3 or 4 wells dug about 4 ft. deep, Distance 12 3/4. [miles]

[May] 18th. Cloudy & warm. wind E. S. E. Captains of 10s called together. Prest. Young made remarks, of which the following is the purport as reported to me; the hunters do not start out soon enough, but lay around until the teams start & then have to go further for game & hinder the camp in going so far into the hills to haul meat; the horsemen were blamed for not taking more care to look the best route, many for turning up their noses at forequarters of meat, & the whole for being indolent, & they had better put their horses into the teams; route (p. 17) quartered for the bank, & came on it just below the Cedar bluffs on the opposite; 3 deer drinking & walking about in the river, water very shallow & bed good to judge by their motions. crossed a run, rattlesnake creek, about 1 rod wide, emptying just at the commencement of the cedar bluffs opposite, more old grass than usual, nooned, cloudy & report of thundar from W. S. W. sprinkled a little occasionally. Camped in a circle on the W. bank of a clear run about 2 or 3 yds wide, (Eagle Creek) & about 1/2 mile above its outlet; through the night, rained quite moderately, most of the time, Wind N. feed poor. Camp called,

& ordered to drive in all cattle & horses near them, when they went to gather them in, penaltys be sent for them, not to stop in the road to water, under penalty of traveling in the rear of the cannon the rest of the day. Distance 15 3/4 miles.

May. From 14th to 18th. Rain 15th 8 1/2 ± 7 ± 12 3/4. Whole No. 395 1/4 miles. 17th Stevens caught a young fawn & gave it to Young 16th Sunday.

[May] 19th. Started at 5 to find better feed, crossed a small run & turned out to feed, grass tolerable, bottom narrow & wetish, started about 8, began to rain quite steady & tolerably fast. Wind E. soon crossed another run about 1 rod wide & began to rise the sand bluffs which come to the water for 3/4 mile, road up & through quite sandy, hard pulling, passed on to the bottom across a small run & stopped at 11 on account of its still raining; the route would probably have been better, over the bluffs if we had passed up the run further & wound among the hills where they are not so sandy; or keep right up the river under the bluffs; started at 3, still raining at times quite hard, rolled on 2 miles & camped in a semicircle on the river bank, Wind N. N. E. feed middleing; Distance 8 miles. rained till nearly dark. [p. 20]

[May] 20th. Cloudy & coolish, wind N. N. W. bluffs as usual, sometimes, pretty well tumbled & sharpened up, at others smoother, at times sand predominates, then clay, now & then an appearance of rock, in the face of the bluffs on the S. side; started at 8, stopped at 1/2 past 11 at a point within 1/2 mile of the river, where a low spur of the hills runs down from the bluffs, average width of bottom, 2 miles, soil good, road good; the hills & bluffs have come to the water on the S. side almost the whole distance, with a good many small cedar trees growing on them; 1 cedar tree on the N. side,

with a young dead Indian, wrapped in a hide, with his wooden bowl & spoon & small bag, tied in its branches, passed just before we stopped a large patch of pigweed; horizontal strata, in the bluffs on both sides, apparently of limestone, mostly on the S. side; crossed a run soon after starting; feed good; cool; several very small Iselands, scattered along, but hardly any of them, support even bushes, until we get to this point, where some of them have small cedar trees; while nooning, A. Lyman & three others crossed over, in the boat to the mouth of a short dry hollow opposite; & found the Oregon road to come down the hollow & take the S. bank of the Fork, ash*in the hollow, & mountain cherry bushes; the strata of rock proved to be limestone; rolled on about 2 miles & crossed a swift, quicksand bottom creek* from 10 to 12 rods wide, passed on, bottom, grass soil &c as in the A. M. come to a point where a low range of hills, come to the river, and just at the point, a run about 4 yds wide emptied into the river, rolled on 1/2 mile, between the low hills & run, & camped at 6 in an oval, by the run & within 1/2 mile of river, Distance 15 3/4 miles. So far since the Oregon road came over, the bottom is a mere strip, the ledgey bluffs rising just back of the bank; on this side with the exception of the 2 spurs of very low hills, the bottom is about 2 miles wide, & good for grass; by our camp, the low hills come near the run, which is about parallell with the river, flat bottom of 1/2 mile & more between the 2, the hills reach back some distance to the main bluffs; opposite bluffs quite bold & ledgey; through the day, this side, only 1 place where the strata show & at the gorge of the creek; few buffalo seen; pigweed plenty; 1 pole cat seen & 1 prairie hen.

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- * Ash hollow, trees small. [A.C.]
 - * Wolf Creek [A.C.]

[May] 21st. Pleasant, cloudy at sunrise, no wind, breaking away, started at 8; stopped at 1/2 past 11; in middle of a bottom; a board of distances was put up at camp ground; hills retreated, width of bottom from 2 to 4 miles, soil good, clayey, quite wet in places, from the rains of 19th. S. side, no bottom, heavy from the late rain, bore to the W. N. W. & crossed a very low range of hills, which had swept round & come to the (p. 18) river passed through a very rich pigweed patch, & kept on near the base of the low hills on our right, & the river 1 mile or more on our left, at 1/2 past 5 line stopp'd, in view of our front horseman just ahead among whom were 2 mounted Sioux, soon turned a little towards the river, & camped in circle about 1 mile off, a few buffalo seen on the other side, P. M. distance $7 \frac{3}{4} = 15 \frac{1}{2}$. The bluffs on the S. side, keep their rocky ledge, up to a dry hollow, of some apparent length, whose mouth is about 1/2 mile higher up than our camp, they then keep on at a lower elevation, & are much smoother & without rock, of any consequence, showing; a few small ash trees, in the hollow; very little bottom on the S side; hills low [p. 21] on the N, bottom wide, grass good & plenty; old grass very thick, waist high; between our camp & the river & up as far as one can see, there is very heavy coat of old grass, of a good kind, resembling timothy or red top. The route would have been nearer & probably much better to have struck from our camp to the low hill we crossed. A piece of petrified leg bone 27" of a very fine large animal picked up on the low hills we crossed, by the roadside, in a dry gravel channel, made by the rain water of the hill country.

May. From 18th to 21st. $15 \frac{3}{4} \pm 8 \pm 15 \frac{3}{4}$. [miles] Whole No. $43 \frac{3}{4}$ [miles] Rain night of 18th, 19th. (Castle Bluffs 8 miles above Ash hollow, [May] 18th appearance of rock, in the cedar bluffs on the S side of the first time.)

[May] 22nd. A little cloudy, pleasant, breeze S; started 1/4 past 8, rolled on, road good, crossed a little clear run about 11. 3 or 4 yds wide emptying in just above the cedar bush bank opposite; stopped to noon at 1/2 past 11; a few scattering pine trees, small, on the ridge opposite; an occasional narrow strip of bottom on the S side, hills smoother, N. side bottom averages about 1 mile, occasional appearance of rock both sides, 2 buffalo seen S side, soil gravelly, a weed called by the boys "old man" quite plenty, also a weed some call ragweed, prickly pear occasionally; feed rather short & scattering, points in the Oregon road visible occasionally; 7 1/4 miles; started again about 2 & came 4 1/4 miles then wound among & over the bluffs 3 miles onto the bottom 1 mile & camped in a circle within about 1/2 mile of river, distance 15 1/2 miles, first 4 1/4 miles over a dry hard bottom, & across several dry beds of runs in high water; from the ridge of bluffs the road crossed, we could see chimney rock, & view the very curious & the broken ground all round us & especially on our right & ahead, crossed the gravelly bed of a run, some 8 rods wide, 3 times, in the hills, hauling through the beds of the runs very heavy. Old man weed very plenty, smells & tastes some like wormwood, a few small cedar trees in the bluffs, a young grey eagle brought into camp, also another petrified mammoth bone, portions of the main or thigh bone of the hind leg, Diameter 5 inches circumference 15 inches. A thunder storm passed around us & dropped a few sprinkles. The bluffs, opposite our camp* on the N. are named by the Prest., Bluff Ruins, they present an appearance of ruined castles, with their turrets, towers, terraces & walls, much dilapidated; it has been caused probably by the breaking down of the horizontal strata of limestone, which is quite thin, & the washing away of the marly foundation of the strata by

* A board with a letter plugged up in it put up. [A.C.]

rain, sun & wind, constantly operating; a marly clay, appears to be the main body of the hills & bluffs, many foreign specimens of rock, are strewn all over the beds of the dry runs & on the tops & sides of the highest hills & bluffs, in many places, such as granite of several varieties, quartz, green stone &c a great amount of flint of various shapes & sizes.

[May] 23rd. Sunday. some cloudy, quite warm, Bro. Fairbanks bit in the ankle by a rattlesnake, made quite sick, about noon camp assembled, [p.22] & meeting was began by singing, prayer by Prest. Young, singing, a few remarks by E. Snow, the Prest. then spoke for some time & advanced the following ideas in his remarks "the fruits of our works in this mission, will be tasted by us in this world & in that to come & eternally for good or evil according to our works"; "I feel highly pleased with this camp & its movements, all goes well &c", no underhanded work in the gospel, all is plain, & all things belong to the upright & honorable", "no man has disobeyed my counsel that I know of" I will do the scolding to this camp, no other man shall," "our mission will soon be looked upon, as among the first works of the church". A place must be prepared for giving endowments & teaching revealed principles that have not been taught publicly," "we built the temple & font in spite of the opposition of wicked men." about 5 wind blew very hard, about 7 began to rain hard, continued to rain till towards 10, wind high through the night. Latitude M. observation, 41° 33' 03". Barometric height of bluff above the surface of the river 235.

[May] 24th. very cloudy, wind cold, a few flakes of snow flying, wind last night & this morning N. N. W.; started 20 minutes past 8 stopped to rest 35 minutes past 12, road hard & good, bottom more rolling than usual; a curious shaped & lone portion of bluff, nearly opposite on S. side, looking

like a fortified round tower with a detached Turret;* still cloudy, & very cool, 10 miles. (p. 19) 2 Sioux came to us while we were resting. Started 1/2 to 3 & rolled on 6 1/2 miles & camped in a circle within 1/4 mile of river, road good, feed poor, clouds breaking away, wind fell; bottom wide & not so rolling; just as we formed camp, 35 Dacotahs, men, women & children mounted crossed the Fork to visit us, they were very friendly, clean, well dressed, well formed, good sized & well behaved, &c. went out to them to read 2 letters in French, given them as recommends, one to Owash to cha, on le belle journei, signed P. D. Papin, the other to brave Bear, not signed, both good;

Sioux. Rain 23rd. Snow 24th. May. From 21st to 24th; 15 1/2 ± 15 1/2 = 31. [miles] Whole No. 465 3/4 [miles].

[May] 25th. Quite a frost clear, mild & pleasant, The Dacotahs came down from their sleeping place, 1/2 mile above & remained about our camp until we started; behaved perfectly well, we gave them some bread last night & this morning; traveled 12 miles, road dry & generally very level, but rough from inequalities, course nearly through the center of a wide bottom, & camped in a circle about 4 miles E. N. E. from Chimney Rock on the S. by Barometric calculation by Prof. O. Pratt, at our last night's camp, height above ocean 3371 ft. & 686 ft. above the junction, being a rise from the point, of 5 ft. 6 1/3 inches to the mile. Latitude by M. observation 41° 41' 46", O. P. Rockwell killed 2 antelopes, A. L. 2 hares. but little air, quite warm. Grass middleing, principle grass, buffalo grass. Widest place in bottom about 6 miles. Several wells dug.

[May] 26th. some cloudy (chimney rock all a clay warm, a fine breeze from the W, Started at 8, stopped a 12. 7 1/4 miles. started 1/2 past 2 camped at 5, in a circle, near the river; grass pretty good; road level,

* Called by the Prest. "an old Courthouse." [A. C.]

bottom wide & dry, the road would be better if it kept the bank, [p. 23] on account of grass, drift wood, & water at all times; 4 antelopes killed; sprinkled a little about sun set. 5 miles = 12. Our camp is nearly opposite Terrace Bluffs, of marly clay, constantly wasting, & in fair view of chimney rock.

[May] 27th. cloudy, but very pleasant, with a fine breeze, started at 8, stopped at 12, route close by the river, grass good; road fine; nearly opposite Scott's Bluffs on the S. side. From Ash Hollow to Chimney Rock by our road 72 1/2 miles. Width of river opposite our last night's camp 792 yds; 8 miles. 2 lopes killed, A. L. killed 1; started about 2, & camped in a circle about 5 near the river, & just above the most northern points of Scott's Bluffs, 5 3/4 = 13 3/4, grass &c as in A. M. stopped thus early on account of grass just ahead looking short. bottom still very wide, about 6 began to rain quite fast, wind from N. N. E., a few bushes on the opposite bank. Scott's Bluffs & those above & below are the prevailing marly clay formation, & cut up into all manner of curious & fantastic shapes by the action of the elements & fast wearing away. Rained slowly till about 9 in the evening. Since we left bluff ruins, after you leave the river bank from 1/2 to 1 1/2 miles, the bottom is very dry till you reach the low range of hills, from 3 to 4 miles, then dry for about the same distance to the main bluffs, so that the best grass is confined to the strip of bottom, along the river.

[May] 28th. Cool & cloudy, quite misty about 7, wind E. N. E. River takes a sudden bend from Scotts Bluffs to the N. W. or almost N. for a short distance; laid by till about 11 for fear of rain, started & soon came to where the bottom was narrow & quite sandy & continued so for about 3 miles, with a small clear run close on our left, then about 4 miles of good hard road along a wide bottom again, then instead of keeping on the edge of dry bottom, the road pilot, struck across, the wetish bottom lying near the river & we

had 4 1/2 miles of first wetish, then sandy, then tolerable road & camped in a circle near the river, with plenty of driftwood, but poor grass, the new being mixed up with the old; cool & cloudy. 11 1/2 miles. A few scattering cottonwood trees & small willows on the small islands & the S. bank. Misted & sprinkled in the night.

[May] 29th. Cool & cloudy, began to sprinkle & mist quite steady about 5. the Prest. last evening made some remarks against so much levity, card playing, dancing &c as there was going on. Wind N.E. slackened up misting about 10, wind E. at 1/4 to 12 the Prest. lectured the camp very sharply & very well upon the subjects of their levity, such as dancing, fiddleing, card playing, mock trials, loud laughing & talking, contention &c showing what such a spirit would lead to, & that he did not wish to go any farther, with such a spirit in the camp, &c; then called the 12 together, then the high priests (18) including 4 bishops, then the seventies (76) then the elders (8) left those who did not belong to the church, 2 sick in waggon, 2 away hunting; the Prest. then called upon them by quorums & they all covenanted with uplifted hand to return to the Lord with renewed purpose of heart, & leave off those practices, that tend to evil, good remarks (p.20) by Elders Kimball, Pratt & Woodruff, started 1/2 past 1, [p.24] stopped 1/2 past 5, & camped in a circle, near a spring run about 5 yds wide, & just above a point where the river runs from the south to N. across the bottom about 2 miles, several trees on the islands. Road good, grass good, sand rock showed in the bluff for the first time close by the road & about 2 miles below our camp; just below us the N. Fork runs a serpentine course to & fro across the bottom for the first time. The Oregon road just below Scotts Bluffs turns behind the hills to avoid the Bluff, & comes on to the river after 2 days travel just below the large trees on the islands, at a point about 1 mile or more below our camp, it crosses horse creek,

which empties above Scott's Bluffs, on the S side. Road [on May] 28th would have been nearer & better to have continued on that dry hard bottom. The grass on the hard bottom, is thin & short, but good where the bottom is wetish which is the case very frequently, in patches of some length & breadth, lying near the river & always to be commanded for camping purposes, as to grass, driftwood & water. Elder Kimball remarked that not one of us or one of our families would die till our return, if we would abide counsel as given. Elder Woodruff motioned that all burn up their cards, gammon boards & dice for they were useless lumber. miles 8 1/2.

May. From 24th to 29th. 16 1/2 ± 12 ± 12 1/4 ± 13 3/4 ± 11 1/2 miles. Whole No. 531 3/4 miles. sprinkled 26th. rain 27th. mist 28th, rain 29th.

[May] 30th. Sunday, appointed as a day for fasting & prayer; warmer, but still cool & cloudy. wind E. About 9 the camp assembled for prayer meeting, Bishop T. Lewis presiding, praying, singing & remarks, confessing &c by the brethren, all good, meeting closed 1/2 past 10. About 12 the brethren assembled to partake of the sacrament, Bishop Lewis presiding. At the same time the 12 & 9 others, with their clothing repaired to a bason in the hills, & stationed O.P. Rockwell & A. Carrington on the look out, while the rest clothed, & went through the usual [rites] & prayed, the Prest. being mouth, soon after they dressed, it began to sprinkle, about 1/2 past 1 & then to rain just as we got back to camp. The low range of hills that has continued so long, begins just below the sand stone Bluffs to take a higher elevation, & becomes more broken, as you rise on the ridge & look N. the land extends back at the same elevation broken barren & rolling for 4 or 5 miles then there is a breadth of lower ground, still rolling & barren for from 5 to 10 miles extending to the main bluffs; an immense quantity of pebble stone is scattered promiscuously over this barren & broken region. About 4 the Prest.

invited the 12 & Bros. Carrington, Shumway & Snow to take a walk, we ascended the ridge & then proceeded to the top of a high peak about 2 1/2 miles from camp. We then had a fine view of the main ridge of bluffs on either side of the river from 20 to 30 miles apart, & of the intervening level, rotting & tumbled up surface & the course of the river up & down for a long distance, also the towering black Hills, between the points W.N.W. & S.W. air line 40 miles, & Chimney Rock to the S.E. Bro. G.A. Smith offered up a very appropriate prayer & we got back to camp about dusk, in season to have a look at a very fine specimen of lunar rainbow, which occurred soon after, about 7. It has been a day of much joy & satisfaction to us, peace, quiet & harmony prevailing in the camp & our stock full fed & well rested, [p.25] & we all felt well & thankful for the sudden change for the better, since our covenant.

[May] 31st. Clear & pleasant, breeze from the W.N.W. started about 8, turned off our course a little to find grass, stopped 1/2 past 12, distance 9 1/2 miles, grass thin; course direct, road good, bottom varying much in breadth owing to the windings of the river, generally very dry, with scanty grass, ridge quite broken, many of the peaks barren from sand, others covered with gravel & pebble stones, distance across bottom & river from ridge to ridge 5 or 6 miles on an average. Started 1/4 to 3 camped 1/4 to 7 in 2 parallel lines on the gravelly bank of a swift run from 20 to 30 ft. wide, & about 1 mile above its outlet. Course quite direct, road quite sandy, & grass thin, passed several good sized cotton trees, & stumps & trunks on the isleands & banks, accompanied by long fringes of willows & young cotton bushes; 1 deer killed by J. Higby: distance 7 1/4 miles. Latitude by M. observation, 42°04'41". Much the most bottom on N. side, quite a frost.

June 1st. Clear & pleasant; started soon after breakfast, crossed the

small run before & soon came on to good hard ground; bottom from 2 to 4 miles wide, quite dry & hard, with thin grass. Trees green & dead, more numerous & larger, & small pine or cedar trees, or both, quite plenty in the bluffs on both sides of river, little or no bottom on S. side, just before we stopped, 1/4 past 12, passed 5 old sod chimnies near the S bank; grass thin, 4 1/2 miles; after nooning traveled 7 1/2 miles. Latitude 42°09'24"; road generally quite sandy, grass scattering, & camped in a semi-circle on the river bank (p.21) about opposite Fort St. John, on W. side Laramie's Fork, & 1 1/2 to 2 miles from our camp, channel much narrower 108 yds wide above Larimie's Fork, & deep & current strong. Our camp fires tonight presented quite a cheerful & old fashioned appearance, wood being plenty. Cloudy, sprinkled a few drops just after dark. Soon after we camped, 2 of the brethren that had come up from Pueblo 2 weeks last Sunday 16th, came over in our boat, they were pleased to see us & we then, they were 15 days coming from Pueblo, did not hurry & laid by some, distance 250 miles. The Crows had been down just before they came to the fort & stole 25 horses from the post in daylight.

From 29th [May] to June 1st. (May 31st. Frost.) 8 1/2 ± 16 3/4 ± 12 [miles]. From Winterquarters to Fort St. John 569 miles. (It is said that the Black Hills can be seen from Scotts Bluffs in a clear day.) (Rain 30th. Peppergrass in the hills).

[June] 2nd. The 12, A. Carrington & several others crossed the N. Fork, walked 2 or 300 yds to the ruins of Ft. Platte (a trading post,) the outer & inner walls are pretty much entire, built of large sun dried brick, about 15 ft. high, 2 1/2 ft. thick & enclosing a parallelogram 144 ft. by 103 ft. with 2 large gateways 1 for stock &c. the other the main entrance, opening into the hallow square around which the buildings are ranged against the walls, with a wall between it & the space allotted to stock. We next went

to Ft. St. John, & were politely received by Mr. Beaudeau & Co. 17 in all. Walls &c as Fort Platte, the enclosure 168 ft. by 116 ft. the main building 2 stories high & forming part of the wall, with a smallish [p.26] double planked door, opening through an entrance way into the hallow square, an open court, round which are ranged, mostly against the walls, the store room, blacksmith shop, ware rooms, cookrooms &c. stabling &c along the east wall, with a waggon entrance & strong door, in the middle on the S side, the main entrance, folding doors high & wide, double ash plank thickly studded with spikes, over the main entrance, is raised a square tower, of light frame work weather boarded, with a flag staff run up from it. Several squaws & young children about, probably belonging to the traders. We chartered their flat boat & took a ride down the rapid current of Laramie's Fork, 3 or 4 miles in its windings, to the mouth about 1/2 mile below our camp, then towed up & crossed over to camp, some cloudy. Mr. Beaudeau said the first post was established here in 1833, & that it was 300 miles from here to Bridger's Fort, on Black's Fork of Green River, & where the Oregon & California roads fork. 2 flanking projections, or square towners run up above the walls & roofed, 1 in the S.E. & 1 in the N.E. corner. They send their pelfrey from this post to Ft. Pierre 400 miles over land, on the Missouri, where the steam boats take it. Latitude M. observation by O. Pratt 42°12'13" at Ft. St. John, width of Larmie Fork at same place 41 yds. some cloudy & quite warm.

[June] 3rd. pleasant, with a strong wind from E.S.E. commenced ferrying over the N. Fork about 5 kept busy at till 1/2 past 1, when a severe hail & rain storm began to pour on us, accompanied with heavy lightning & thunder, lasted 1 hour. A. Lyman started about 11 for Pueblo to counsel the movements of men & things there. in company with Stevens, Woolsey & Tippetts of the Mormon Battalion. Sprinkling occasionally. A. Carrington sent a letter

to his wife, per A. Lyman to be forwarded the first chance. Rained a good deal through the night.

[June] 4th. Cloudy, but pleasant, all over by 8. A.C. left a letter for wife, at this place. Paid Mr. Baudeau \$15. in cash & work turned by Crow, for use of flat boat. Started at 12 on the Oregon Road, stopped 1/2 past 1 to let the teams pick some patches of good grass. The company that came up from Pueblo came into our line, with 3 waggon, several loose horses, a number of fine cows & calves & 2 large fine bulls. Started 1/2 past 2 & camped 1/4 to 6 in a circle near the river, grass good but scattering, this day we began to travel in what is called the Black Hills, so called from the dark shade given them, by the large number of small pine & cedar trees growing upon them; quit hauling fuel; This river from above the forks is very crooked, with little or no bottom, except in narrow strips & small curves, road in some places quite sandy with sharp pitches, we came down one very steep hill, much worse than any since we started, bottom, timber & hills about evenly divided between the N & S side. A very broken country, grass mostly Buffalo grass. quite a shower between 5 & 6 P.M. Mr. Baudeau Superintendant & Eugene Montalant [Mortalant?], clerk, told Col Rockwood, they had never seen so civil & well behaved a company travel this road. distance 8 1/4 [miles]. Stand by our camp & look all round & you can hardly tell how we or the river get here, the most circumscribed view we have had. The new comers had 5 waggon & 1 cart, 9 men, 5 women. 3 children. We now have 79 wagons, including cannon, boat & cart. 96 [p.27] horses, 51 mules, 90 oxen, 43 cows, 3 bulls, 9 calves, 16 dogs, 16 chickens.

[June] 5th. quite cloudy, sprinkled a few drops (p.22) Archibald Lytle one of the new comers abused his oxen yesterday. Started late, some oxen

missing awhile, halted $1/4$ to $1/2$ near a lazy spring, water soft and sweet. quite a quantity of bunch grass, bluffs mostly of a very fine grit sandstone with considerable lime of a light grey, easily crumbled by exposure, in some places presenting a perpendicular face, some butting & others worn away so as to resemble the terraced plats of a steep hill side garden. road crossed a bad point of rock then kept up the dry narrow bottom & bed of a spring run, the water sinking in a day not far from the warm spring. Latitude $42^{\circ} 15' 6''$. Started $1/2$ past 2 & camped in a circle on the W side of a small spring run, called cottonwood run, $25 \frac{1}{4}$ [miles] from Ft. John. $10 \frac{1}{2} = 17$ miles. An emigrant company is camped about $1/2$ mile back of us, with 9 waggons, 1 cart, & 1 handsome 2 horse carriage, horses, mules, oxen, women & children &c. they mostly from Illinois, not far from Chicago. 1 bad rocky hill in our road from noon halt to Cottonwood Creek, & 1 before noon halt as we left the river bottom, road otherwise pretty good, rained a considerable from just after dark, more or less through the night.

From June 1st to 5th. Rain & Hail 3rd. quite a shower 4th. To Laramie's Fork 569 miles. Whole No. 577 $1/2$ miles in time 6 h 56 m 7 $1/2$ s, Equal to $104^{\circ} 11' 53''$.

[June] 6th. Sunday. Appointed for fasting & prayer, cloudy, grass good, prayer meeting at 9, meeting again at 11, just before our first meeting the emigrants passed by, one Gabriel Friedeaum with them, who belongs at the missionary station on St. Mary's, a tributary of the Columbia, $4 \frac{1}{2}$ days ride on horseback from Ft. Hall. Friedeaum says, when the water is low we do not have to leave the river & keep in the hills so much, but cross some 6 or 7 times. 11 o'clock dispersed, after prayer by E. T. Benson, by a heavy shower of rain, with lightening & thunder which lasted about 1 hour. During the rain about noon, another company of emigrants

* Silicious sandstone. [A. C.]

passed us, from Illinois & Missouri, 20 waggons, 2 carriages. Started between 2 & 3 & went 5 miles, to shorten the distance to the next water, crossed the run or creek twice, passed the camp of the last emigrant company & the 3rd 10 mile stake from Ft. John, & camped in a circle on the bank of Cotton wood creek, leaving the road open through the center of our circle, the other camp is just ahead of us. good sized cottonwood trees on this creek & plenty of them. road tolerable, grass good. quite a breeze, after the shower, from the W. Mr. Friedaun says we are now as near Laramie mountain as we shall be, it has been visible from Chimney Rock. Br. Frost is blacksmithing tonight for both of the emigrant Cos. A good place for camping any season of the year.

[June] 7th. some cloudy, emigrant Co. next behind, passed as we were hitching. Owing to disagreement the whole route, N Taylor took his horse [p.28] & loading from R. Badger's waggon & joined Green. Started little past 7, soon bore off from cottonwood creek; crossed the dry gravelly bed of a run 6 times, 13 waggons overtook us. from Andrew Cy, Mo. Wind E.S.E. noon halt at a spring. Latitude $42^{\circ}21'51''$. $1/4$ past 11 grass short & scattering, road good, except the gravel in bed of run; a fine view of Laramie, or little mountain, with white spots of snow, the 13 wagons passed us while nooning. $7 \frac{3}{4}$ miles. Started $1/2$ past 12, road very hilly & gravelly, crossed 2 ridges at the general elevation of the country round, with the exception of Lan [Laramie Mountain] & its immediate ridge, as far as one can see in every direction from these 2 points, the view is extensive over a broken & barren country; 4th 10 mile stake put up; lightening & thunder with slight showers, camped at 4 on Horse Shoe Creek, cottonwood willow & ash trees plenty & of good size; quite a hard short shower, large drops & some small hail, while we were camping. grass very good. 2 black tailed deer 1 lope killed. A. C. wrote a letter for G.A.S. to send to Ft. John with the observations at that place. $5 \frac{1}{4}$ miles = 13.

[June] 8th. Cloudy; Started 1/2 past 7, crossed Horse Shoe Creek, feed good, air fine & bracing, a few buffalo seen, the first for some time. Soon turned from creek & began to wind up the hills, 3 shortish steep places, (1 very bad, which might have been avoided with a little labor) & 1 long hill, which brought us to the tope at the general elevation of the surrounding country, Laramie mountain with its snow banks on our left, crossed 2 small beds of spring runs, with a few cottonwood growing. Saw a chipmunk or yankee ground squirrel, as we ascended the first hill; noon halt 1/4 past 12, distance 6 3/4 miles, road good for a hilly one, except the first rise; hills look green, but the grass is short. Wormwood, southern wood, wild sage, & anise or sweet scisily, occur in abundance from time to time. 1 lope killed. Started about 1/4 to 2, put up 5th 10 mile stake, crossed 2 small dry runs, & 1 large one 4 times, & the river La Bonte or Big Timber Creek at this time over 2 ft. deep, & 6 or 8 rods wide, quite clear & rapid, all these runs & creeks have gravely & pebbly beds, as usual for some time; wind strong from W.S.W & cool. Camped in a circle about 1/2 past 6 near the river, feed tolerable. A. Carrington & several of the brethren done road work faithfully this day, throwing out pebbles &c. road winding & hilly but hard from gravel, 8 3/4 miles = 15 1/2 miles. Laramie mountain, the highest peak of the divide between North & Laramie Fork, is said to be the highest peak of the Black Hills, & our road today is said to have passed over the highest ground that it does in the Hills. 5 men, traders and trappers rode into our camp. 1 deer & 1 lope killed. (p.23)

June 5th To 8th. 17 miles ± 5 ± 13 ± 15 1/2. Whole No. 627 3/4 miles. Rain 5th & 6th & 7th with hail. Sprinkled a few drops 8th. June 5th, A. C. relieved from night guard.

June 9th Hitched up before 6 & went a short distance, for better grass; put up 6th 10 miles stake stopped opposite a traders camp, several, men, 1 squaw, 3 carts & 2 waggons, loaded with peltry, started 1/2 to 7. 15 of our waggons sent ahead to the crossing of the Fork. Clear & pleasant. A high,

sharp ridge of fine sandstone, white & redish, on our left, [p.29] several specimens of iron stone, the lower hills, as far as one can see, are composed of light colored, & redish & red clay & *limestone, with an occasional show of the sandstone of the ridge, road very good for a hill country, no bad hills, crossed a small dry gravelly run; stopped 1/2 past 12 close by a small run, grass good but scattering. Wild flax found. Distance 11 1/4 miles. put up 7th 10 mile stake; Started at 2, passed in 2 or 300 yds, a fine spring close by road side, crossed 1 dry run, & another 2, & camped in a semicircle at 1/2 past 5 on the bank of river a la Prele, a clear & rapid Creek, from 18 inches to 2 ft deep at this time, & from 2 to 3 or 4 rods wide, grass good on the margins; distance 8 miles = 19 1/4 mile; as we camped, emigrant company in sight ahead & our 15 waggons close upon them. Since leaveing Ft John, the formation as far as hastily observable, is based on a horizontal bed of hard clay & mostly light colored, overlaid with a bed of coarse sand or gravel, then in many places overlaid with another strata of clay, upon which rest, where undisturbed, the horizontal strata, of Argillaceous & silicious sandstone & as you advance a pure grit, or calcareous sandstone of fine quality, white & redish, & in connection at a lower elevation, light colored, redish, & red argillaceous limestone, & grit sandstone, in some few places, metaliferous limestone, pudding stone & conglomerate frequent, but not occupying any considerable extent, as to regularity or surface except on the N Fork, occasional specimens of soft gypsum or plaster of paris, impure, & also of hard gypsum purer, To judge from a hasty observation En route of the country from Ft. John to River a la Prele by the hill road its original conglomeration of coarse sand, then clay (mostly light colored & hard, in places red or metaliferous, though confined) then argillaceous limestone then clay & in others silicious sandstone without the super strata of clay, taking this as a general view of the formation for 78 3/4 miles &

* Metaliferous & argillaceous. [A. C.]

then noticing the dividing ridges, the hills & banks & beds of streams, one is led to the conclusion that when these strata were disturbed the waters in seeking a level would do so by rapid current which would directly wear high perpendicular banks, from the very nature of the formations, which also being easily operated upon by the fierce winds & storms of this country so far as the clayey strata are concerned would give way from time to time, & the super strata of rock would of course decline according &c to every degree from a slight slope to a perpendicular & to every point of compass, though in the main through the channels of the streams as is the fact, leaving cones & bluffs & peaks & combs, & at a lower elevation more rounded hills, just as we see them, some traders passed W, just as we camped; P.M. cloudy quite a cool breeze from W by S road good with a few small exceptions, about 20 rods back of our camp, on S side of road is a grave, with head stone cut, J Hembree, 1843.

[June] 10th. A few clouds, very pleasant, with a fine breeze from W.S. W. Started at 7, crossed 2 wet & 1 dry small runs, & Fourcha Boisee a fine stream, now about 18 inches deep, and from 3 to 4 rods wide, noon halt on its banks at 11, grass tolerable, road good, with the exception of a few short pitchens; cotton wood & willow plenty enough for camp purposes [p.30] on all these runs wet or dry, so far from Laramie, the hills over which the road passes not so broken this A.M. mostly clay, where found, white, light cream color, & redish where not covered with gravel & pebble, the ridge on our left is smoother & probably grit sandstone, in spots redish. distance 8 3/4 miles. 8th stakes put up. Started at 2, rode the elevation of the hill W & began to turn for the N Fork, 1/4 to 3 came on to the bottom, but a small portion of low bottom, but the elevation bottom is very level & from 3/4 to 1 1/2 miles wide, terminated by gradually sloping hills, which

again slope towards the divide or main bluff, artemesia in abundance, crossed a small run; land on the N side much the most broken along our route since we struck the Fork, crossed Deer Creek, a beautiful stream with plenty of fish, herring, suckers & cat, now about 18 inches deep in the swift places & from 4 to 5 rods wide, camped in a circle on its bank $\frac{3}{4}$ mile from river distance 9 miles = $17 \frac{3}{4}$ miles. The river here is about $\frac{2}{3}$ as wide as at Laramie, not so rapid, or deep, 9th stake put up, as you stand on the (p.24) top of the East bank or bluff of Deer Creek, near its Northern limit, & look S by W & S.S.W. to the main bluff or divide, the view extends to the bluff of the creek, over its beautifully winding course & bottom & the sloping grassy hills that bound it, its beautiful cotton, willow and box elder trees, and a long line of bluff, with several clumps of small thrifty pine, dotted in other places by scattering ones, altogether a sweet & lovely view, and one of the finest places for a small settlement, that we have found. A. Carrington, discovered an extensive coal bank, the first ever found to our knowledge on the Platte or any of its tributaries, it rests upon a fine grit sandstone, commonly called grindstone, grit of excellent quality of a whitish or light grey color, except where stained by sulphuret of iron, then yellowish, as far as it shows, from the creek to coal bed is from 40 to 50 ft. thick, then the coal bed, probably from 6 to 10 ft. thick traced nearly 1 mile, then overlaid by a brown micaceous slate, could not determine its thickness without mining, slate overlaid by an earthy limestone (brown) in layers from a few, to 18 inches thick, whole thickness not determined, for some reason applied to the slate, the whole overlaid by a coating of the prevailing erratic pebbles, Over the face of the sandstone, are both scattered and adhering round & ragged specimens of

erruginous sandstone, many of them formed around a nucleus of Sulphuret of Iron. Wild flax in abundance on this creek. This spot is the best one for a location, all things considered, on either route from the Missouri to the S. Pass, soil calcarcous clay, easily tilled. Some lopes killed.

June From 8th to 10th. $19 \frac{1}{4} \pm 17 \frac{3}{4}$ miles. Whole No. 664 $\frac{3}{4}$ miles. Latitude of mouth of Deer Creek $41^{\circ}52'56''$ height above sea 4864 ft (3 with a dip to the South of about 45° .)

[June] 11th Clear & very pleasant, breeze from N. W. by N.. GA Smith & A Carrington visited the coal bed this morning & took specimens, we cut out with a hatchet, Started $\frac{1}{2}$ past 7, kept up the river, road good, crossed a dry run, a good quantity of good sized cotton wood, on the banks of river, hills throwing low spurs to the river occasionally, Flax plenty, noon halt 20 minutes to 12, on a strip of low bottom, grass tolerable, a few light clouds Wind W. distance $9 \frac{1}{4}$ miles. Several rattlesnakes seen & 10th stake put up this forenoon, Latitude $42^{\circ}51'47''$. [p.31] Started, & rolled up the river with a good road, crossed 2 small clayey runs, main bluff or ridge on our left from 10 to 12 miles off the dividing ridge of N & Laramie Forks. Snow banks at the heads of the ravines & in spots on the summit. Many small pine upon its sides & summit, it looked quite smooth & green for the bluff; first hills on both sides quite smooth & low. Camped in a circle near the river, on a small meadow, grass tolerable. distance $7 \frac{3}{4} = 17$ miles. 11th stake up, evening very mild & pleasant. 8 lopes killed.

[June] 12th Clear & pleasant, with a fine breeze from the N.W. Started $\frac{1}{4}$ to 8, over rolling prairie bottom, crossed a few ravines with steep banks, & 1 clayey run; noon halt $\frac{1}{4}$ to 12, distance $7 \frac{1}{4}$ miles cotton wood much scarcer, & more stunted, grass tolerable, road good, 12th stake up, after resting rode on, crossed clayey run & camped in a semicircle on

4 = 11 1/4 miles our first company had done a good business in crossing the emigrant company for which they got flour at \$2.50 per 100, bacon & some cash, also R Badger traded waggons with one of them & got a fine horse mare. 100 pounds of flour 1/2 barrel of crackers & 28 pounds bacon to boot, some smithing, waggon fixing &c done for them for which our brethren also got good pay, all of which came very opportunely. quite warm, main Range of bluffs S of our camp from 6 to 8 miles thickly covered with small pines. one of the men brought from the bluffs 1 snow ball a small piece of dark brown mica, & a piece of coal, the same kind & quality as that first discovered by A. Carrington on deer creek, & estimated at the same thickness, that is from 8 to 10 ft. & distance to this point 28 1/4 miles indicating, if any way continues, an inexhaustible supply, for Whitney's railroad or any other project which requires much fuel.

[June] 13th Sunday Some cloudy & very war & still, horn for meeting at 9, good teaching by Elders Kimball & Young & Prof. O Pratt, after meeting, operations set in motion for crossing, 1 of the tongue hounds of A Lyman's [waggon] broke, in going to the bluffs for a load of pine poles..

[June] 14th pleasant, began to cross 1/4 to 5, the loading put over in the skiff & the waggons, some rafted & some hauled over with a rope, cloudy, wind E & E by S, between 3 & 4, wind high S W by W, accompanied, with a severe storm of hail & rain for about 1/2 hour, the most violent we have had, wind then shifted suddenly, as the storm passed by & blew high & cold from N E by E, the storm came upon us, somewhat upprepared, in the hurry of crossing, but we have heard of no particular damage by it. the waggons of Elder Woodruff's & Captain Grover's tens were put over 1 at a time, by Captn. Grover 4 & B.L. Adams 7 without wet or any injury & our loads also came over safe, George Brown rowing, & the rest of us unloading, loading boat, loading

waggons again &c, all of which the 2 first tens got done, just before the storm, the waggons pulled over by rope got very wet some of them rolling over and over, some bows broke, 1 reach, & otherwise some damaged, but nothing serious, J Peck's waggon turned over & spilled out 1 sett of plow irons, & some steel & iron, lost of course; about dark river riseing fast. (p.25) 24 waggons got over, a heavy mist from time to time, lay on the bluff as low as the line of snow banks, throughout the day. S Driggs, [p.32] A Carrington & B.L Adams, let Norman Taylor have their share of the meal & flour, which was ferreyed for, & got of the emigrants, & divided among the tens at the rate of 6 pounds flour & 2 pounds meal we let Taylor have, as he was out of bread, & he drew in his own ten, 6 pounds flour & 2 pounds meal, makeing him out 32 pounds bread stuff. we were all quite tired this night & most of us got very wet in the river, or in the storm, A Carrington got wet as a rat, holding B L Adams waggon cover in front to keep the storm out.

June From 10th to 14th. 17 \pm 11 1/4 miles. Whole No. 693 miles.
(Rain & hail 14th) From Ft. John to where the road takes water 125 miles.

[June] 15th. Some cloudy, wind strong from S W by W; skiff set in operation early crossing loading & the raft in crossing waggons. We all felt some the worse for the wear, but quite well and in good spirits, it seems a pity we could keep on the N side & avoid the expense & time of crossing at Ft. John, & the labor & time & damage here, as the N Fork above Laramie, is at all times more or less difficult to ford or cross. water falling. A Carrington, with aid of Col Little, made & put in a tongue hound, & mended the long hounds, but putting on the sway bar, of A Lyman's waggon. In swimming some stock, 1 horse of Bro. R. Crow's got drowned, he was started across with a long raw hide rope, a piece of chain & billet of wood, he got tangled in the ropes. Quite a number of waggons got over all safe.

June] 16th. Warm & cloudy, quite a breeze from W by S & W S W. After breakfast, Adams & Driggs, started with others, to go & rough out 2 or 3 canoes, & left A Carrington alone with out wagons. A. Carrington wrote & read all day, very lame & sore from hard work, P.M. wind riseing some thunder, & a few drops of rain; 21 waggons from Pike & Adams Counties Illinois, finished crossing today, about 4 or 5 miles below us; 2 emigrant companies opposite us on the other side; bound for Oregon & California. Adams, Driggs & the others, returned about dark, with roughed logs for canoes, 23 ft. long, & 20 by 22 & 19 by 20 inches. busy crossing all day, one of the emigrant companies has buried two of their number, 1 young man & 1 young woman, both within 150 miles of this place, the first death we have heard of in any of the companies. A.C. Carrington stood guard for Adams last 1/2 of night.

[June] 17th. Wind strong from W by S, water high, still busy crossing. Prest. Young's wagon crossed about 9; finished crossing our company & crossed several emigrant wagons & loads; finished swiming over our stock; more emigrant wagons rolling up; Adams & Driggs with others all day working at canoes, A. Carrington made some apple pies & sent them a large one for dinner, the first we have had on this trip. the 2 canoes finished & ready for planking. late in the afternoon, it became quite cloudy, & high cold wind from the N by E.

[June] 18th. Clear & pleasant, wind from W by S, we have crossed, 1 emigrant company of 10 wagons, & will soon have over another of 18 or 20 wagons at \$1.50 per wagon in flour at \$25 pr. 100 pounds & meal at 50 cents pr. bushel, &c, A Carrington left a short letter for wife, to be sent first chance. Both companies of emigrants over & another began upon. Our 2 canoes, [p.33] fastened wide enough apart to run wagons on were launched

1/2 past 12, & put in operation, owing to being green & 1 some longer than the other, they could not bring a wagon with its full load, if very heavy.

[June] 19th. About 2 A.M. showering a little, soon ceased & cleared up, 9 of our men left here under Bro. Grover, to ferry, viz, J Davenport John Higby, F M Pomeroy, L Johnson, W Empey, A M Harmon, D F Stewart, E Ellsworth, Errie Glines, stayed according to the counsel of his own will, having been counseled to go on. Snow off the hills, started about 8, kept back of the river hills over a good clay road, passed over quite an elevation, from which we had an extended view on our right of the moderately broken country, apparently very dry, & thickly covered with wormwood, southern wood, sage, & a great variety of plants & flowers, some of them very beautiful; no timber, except a scattering cedar or pine on some far off hill; passed on over left, in our descent, to ragged ridge of redish brown argillaceous limestone and calcareous sandstone, overlaying in some places a bed of ferruginous sandstone, in other places, an impure black slate, overlaid by a bluish limestone supervened. noon halt 1/2 past 1 distance 11 1/4 miles brought us nearer the river, & within a short distance 3/4 mile of a spring & in sight of red banks on the Platte, started soon, kept on back of the river hills, through a valley, road good over hard clay. just above this spring the Platte comes up from the South, through high, sloping red banks, too far off to determine their composition. Rolled on till past sun down, & camped by a small spring. grass tolerable, no fuel but sage & other small bushes & a few buffalo chips. distance 10 1/4 miles = 21 1/2 miles. 1 buffalo & other game killed, buffalo getting some fat. country more hilly, road good keeping the narrow, rolling vallies, with escarpments of ferruginous sandstone & indications of coal, with clay marl &c. (p.26)

[Dates are continuous, but the next page of journal is marked 1 (a)]

[June] 20th Sunday, clear & quite cool, started, without turning loose, to find better feed, rolled on 3 3/4 miles & stopped by a spring run with tolerable grass, & got breakfast, started & about noon crossed the spring run with very cold clear water, & its banks fringed with shrubery, quite an oasis in this barren region of sage, directly began to ascend quite a long hill from whose summit, we had a fine view of the jagged outline of the right & left ridge of the Sweet Water clearly defined against the blue sky the right much the highest, & of its detached & ragged spurs, thrown some distance into the basin below us, sage in abundance, crossed 2 boggy spring runs, with their accompanying patches of grass & stopped at 3 on another to rest again; distance 9 miles, road good; the hill near our last camp is composed first of clay, 2nd light gray conglomerate, 3rd ferruginous conglomerate, the whole overlaid, by the usual quantity and variety of gravel, pebbles & boulders, quite clear & warm; rolled on, in 4 or 5 miles crossed a clear quick run about 3 yds. wide, & in 2 or 3 [miles] turned off 1/4 mile to the left & camped near said run about dark, distance 7 1/4 miles = 20 miles. grass indifferent, Woodruff & Brown out, cannon fired for them at midnight.

[p. 34]

June From 14th to 20th. 21 1/2 miles. Whole No. 71 1/2 miles. (Latitude of N Fork crossing 42° 50' 16".) (N Taylor 14th.) (19th B L Adams captain in Grover's place.)

[June] 21st. Clear, still & warm, Woodruff & Brown still out, sage for fuel last night & this morning. Started 1/4 to 9 road alternating with clay & gravel, kept quartering for the Sweet Water, passed some pools on our right & left, with a deposit around in some of them, answering tolerably well for saleratus, passed on our right & left at some distance broken masses & ranges of granite with only a few shrubby pines & a scanty vegetation in their crevices, benches & fissures, & in a few places some

scanty vegetation, noon halt, on the Sweet Water, near Rock Independence, distance $7 \frac{1}{2}$ miles. a few small willows on its banks, it is now about 35 yds. wide & very winding. clouding up, thunder at 2, Woodruff & J Brown came to us they sta ed here last night with the ccmpany just before us, in which a woman died yeaterday or last night & was buried near the Rock, grass indifferent, Started $\frac{1}{4}$ to 3, showered a little, soon came to Rock Independence, where the road passes over a narrow bottom, with the Rock close on one side & the river the other, a stake put up opposite the center of Rock mark miles to fort John $175 \frac{1}{4}$ miles, the face of Rock next the road from base to summit almost full of names; this Rock & the mound like rock opposite, are isolated, merely as to surface appearance, & are composed, as well as the neighboring ranges on both sides, of a coarsish gray massive granite, it is from $\frac{1}{3}$ to $\frac{1}{2}$ mile long & about 130 ft. high, & like its neighboring fellows, seamed & furrowed, & broken in every direction, about 1 mile or more across the Sweet Water, now about $2 \frac{1}{2}$ ft. deep, passed on & went through a narrow path, made through the point of a granite ridge, & rising with the slope on either hand about 400 ft. left bank higher, & from $\frac{1}{2}$ to $\frac{3}{4}$ miles from Devils Gate, where the Sweet Water cuts its way through the same granite point, in a short distance further, camped in a semi circle on the right bank of Sweet Water & just below the outlet of a quick running, clear rivulet about 3 yds. wide, with plenty of good grass, distance $7 \frac{3}{4}$ miles = $15 \frac{1}{4}$ miles. road as usual. As you pass up the bank of the Sweet Water the point on one hand & the main range on the other, gradually shut off the narrow bottom, until they inclose the stream, with vertical walls from 30 to 40 yds. apart at the base & about 400 ft. high, for from 3 to 400 yds, the stream in this narrow gate is choked up, by masses fallen from above, in some places to appearc [appearance?], leaving only a narrow channel 3 or 4 yds. wide, whole fall through gates from 10 to 15

feet, near the foot of the gate, there is a vertical vent, about 10 yds. wide; running diagonally across the gate, filled on the right bank with trap rock & on the left with fallen masses from above; as you pass over from the summit to the road, you cross 4 dikes of trap from 10 to 40 yds. across at the top, running as near as I could judge, without compass E N E & W S W, while the gate is N E & S W, crossing the road, you soon come to a bed of coarse conglomerate & a little further, granite & another trap dike, which was as far as my time would permit.

[June] 22nd. A little cloudy still & warm, Started 1/4 to 7 crossed rivulet near camp & in 2 or 3 miles another like it, low bottom very narrow & continually crossed by the winding (p. 1(a)) river, which for 10 miles keeps [p.35] close to the base of the left range, prairie bottom, slightly rolling, with scanty grass, but abundance of sage & absinthe bushes, left range very naked, right range higher, & densely timbered in places from base to summit with pine & cedar, & studded in many places with snow banks, 1 wide gap of about 1 mile in the left range & a narrow one, appearing practicable for wagons at this distance, & nearly opposite in right range, road over clay, in some places sprinkled with sand & fine gravel, level, but roughish in some places from slight inequalities in the clay, noon halt, on river bank, grass good just here absinthe predominates; nearly opposite is a fine gap in the left range, with its isolated masses, 1 thunder roll. Young's wagon axeltree broke, distance 10 miles, (the most regular fracture in these ranges is vertical as indicated at Devils Gate, & road pass, by the rent through which the road rushes, & the corresponding faces of the wall to the trap dikes) rolled on, soon passed quite a pond on our left, & began to wind among the hills, crossed a rivulet about 3 yds wide fringed with large sage bushes, banks steep, in coming out Jake & Lyon broke their

traces, whanged them up, & went on crossed another rivulet about 2 yds. wide, & passed 2 isolated granite masses, one on our right, the other on our left & some distance apart, camped in a circle, near the river, on a strip of low bottom, & at the foot of quite a hill, near 200 ft. high at 8 o'clock P. M. distance 10 $\frac{3}{4}$ miles = 20 $\frac{3}{4}$ miles. road tolerably level, but very gravelly, & a good many large pebbles & boulders in some places, the right hand range some lower than in the A. M. & angles more rounded, with quite a level & smooth outline, left range still ragged & bare, river still run close by the base of the left range, with its low bottom more elevated, & in some places the hills ran to it, prairie bottom very hilly. while nooning learned that one of the emigrant companies, just behind us, lost a young man named Columbus Tustin of Morgan County, Illinois, 18 or 19 years old, he was drowned in swimming a horse across the N fork. another gap in left range just opposite our camp, narrower than the one opposite last noon halt. grass good, which is the first we found since noon halt, our route being mostly among the hills.

June from 20th To 22nd. 20 \pm 15 $\frac{1}{4}$ miles. Whole No 36 $\frac{1}{4}$ miles. (Latitude by Prof. O Pratt taken a little North of Rock Independence. 42° 30' 18" M observation.) (Allowed from camp to camp crossing 1 $\frac{1}{2}$ miles) (From crossing to Willow Springs 28 $\frac{1}{4}$ miles)

[June] 23rd. slight clouds, very pleasant, cool night & warm days, started at 7, soon passed close on our left, the head board of a grave, marked Matilda Crowley, B July 16th 1830, D July 7th, 1846. In 1 $\frac{1}{2}$ miles came to a small pebbly rivulet 5 ft. wide, with a few good sized trees growing each side of the road, we called it Cotton Wood Creek, opposite the mouth of this creek, & for some distance in its length, the left range is extremely worn away, leaving an extended view to the N of the dry & apparently level country beyond, extending far away, with its level outline

drawn in the blue sky in the distance, leaving rivulet, passed just on our right, a short, low, isolated wall of calcareous sandstone, whole bottom quite level, passed a low granite ridge on our right, on the right bank, & soon passed its point & turned on the river again, right hand range as in the P. M. of 22nd. noon halt, just at the entrance of 2 ranges of granite between which the river passed distance $8 \frac{1}{2}$ miles. grass good, absinthe quite thrifty, road heavy [p.36] from sand & gravel, started between $\frac{1}{4}$ & $\frac{1}{2}$ past 1, directly took a detour to the left & rose a slight elevation, to avoid the pass, continued on over the prairie bottom, till $\frac{1}{2}$ past 5, when we struck the river again, passed on a little further & camp in a circle on river bank $\frac{1}{4}$ past 6 distance $8 \frac{1}{2} = 17$ miles. grass good, wind N by E, 1 small emigrant company camped just ahead of us about $\frac{1}{2}$ a mile, another emigrant company about $1 \frac{1}{2}$ miles, they are the two companies that left the Platte crossing the same morning we did, sage & absinthe both plenty & thrifty, nothing new in the river scenery except that its ranges are more broken, a fine view of the lofty peaks of the Wind river chain of the Rocky mts. from our camp. N Taylor received 21 pounds of flour for extra work ferrying, out of the last amount paid by emigrants. road level, but sandy & gravelly, teams tired.

[June 24th. Fleecy clouds. Wind S W. Started about 6. Grass good along the river for about $1 \frac{1}{2}$ or 2 miles road then leaves the river again to cut off a bend, sandy & gravelly, in about 3 miles, come to a valley running from bluff to river; grass indifferent, pools of spring water in it occasionally, very boggy in a wet time, road crosses just above a (p. 2 (a)) spring, ice still in place from 1 foot to 18 inches below the boggy surface, water sulphery from bog ore, some of the pools brackish, from the saline deposit, the valley has a smell like a salt marsh, from our camp to this spring $6 \frac{1}{2}$ miles. The river ranges begin to loose their rocky characteristics,

lower down in the bluff, mounds, table sumits, & large swells, & look green. Interveneing rolling & hilly, with sage & absinthe in abundance & some places very thrifty. In 17 3/4 miles reached Sweet Water again, & camped in a semicircle on its banks 1/4 past 3, road sandy & gravely excepting the spring valley, which was clay. Lopes plenty, some killed. From our camp, little to be seen in any direction, but low rolling hills, covered with scanty grass & stunted sage, just sufficient to make them look green. Plenty, of sage, willow, & absinthe. G Lumme set shoes on Lion & Jake.

From June 22nd To 24th; 20 3/4 miles \pm 17 = 37 3/4 miles. Whole No. miles. (Latitude of noon halt on 22nd by Prof. Pratt $42^{\circ} 28' 25''$) N. Taylor Rd.

[June] 25th. Clear & pleasant, nights cool, days warm. Wind from S. S. W. a sage hen was killed last night, they are very like a prairie hen in size & build, darker gray. Started 1/2 past 6, wind high & cool, crossed the river ascended & descended a spur of the river hills, into a prairillon good place for camping (little meadow) cut off just above by another spur of clay & marl, which we also crossed, & came again onto the bottom, kept up the river & crossed a small spring run & stopped for noon halt 1/2 past 11 distance 8 3/4 miles, grass good, very coarse conglomerate or pudding stone in the hills on both sides of river at this point. quite large onions, dandelions & strawberries in blossom. rolled on & in about 1 1/2 miles began to rise a very long & high hill, near the top its sides & sumit covered with a light gray earthy limestone, in thin & broken up layers as far as showing, descending a little, you cross red & light colored & whitish fine grained sandstone, (commonly called "grindstone grit") ascending again, you cross a light brown & in some places bluish compact limestone, descending a little & rising again, you cross bars of ferruginous & whitish compact sandstone, cropping out in tolerably thick strata, at an inclination

or dip of about 30° , from this point in the road you have a fine view, of the snowy peaks of Wind River chains, & of Table Rock on the South Side of the pass, nere G. S. Smith & A. Carrington turned off to the right & went about $1/4$ mile to $2/3$ the way down the Northern slope of Ridge & found quite a bank of snow, & a fine bed of red mineral clay, returned to road, you then descend into a basin among the hills, which again become lower & smoother, passed 3 ponds, from appearance & taste snow water, further on crossed a small boggy spring run, then passed an abundance of trap rock, cropping out here & there vertically in thin layers, passed 1 & crossed 2 boggy spring runs, & went on & camped in a semicircle, on a clear rivulet about 6 ft. wide, grass in the basin & on the spring runs, & here tolerable. just below our camp, is a fine grove of Quaking Aspen, of 5 or 6 acres, & some of them 10 inches diameter at the butt. road hard & good, except in a few places where it was rocky & pebbly, but hard on oxen's feet, on account of sharp gravel, the wind blew right against us almost a hurricane, as we crossed the high rock ridges, & it continued quite high all day, & very cool. We found a species of white clover here, called by the traders esparcette, or wild, or Spanish clover. Snow banks near the tops of the low hills around us in two or three places. Distance 11 $1/2$ miles. dandelions in blossom & some seeding.

[June] 26th. Thermometer at sunrise 28° . froze thin ice in the water pail. Started about 8 crossed the rivulet before us & soon crossed a small spring run, with Quaking Asp around it. in about 2 miles crossed a branch of the Sweet Water from 10 to 12 yds. wide, in 3 or 4 miles another about 6 or 8 yds. wide, next crossed the Sweet Water now so deep as to come up to the wagon boxes, & into some of them & turned out for noon. grass good & plenty, dandelions & other flowers in full blcom, & some of the grasses seeding, at the same time at the edge of the narrow bottom & at (p.3(a)) the foot of the hill, there are heavy banks of snow, so that one can pick flowers with one hand & snow ball with the other. Latitude, meridian observation by Prof.

O Pratt $42^{\circ} 22' 42''$. E Glines came up from the ferry. Distance 11 miles; rose the hill & road kept along over level & gently rolling ground, hard, & gravelly, now & then a little rocky; passed the culminateing, (or dividing) line between the eastern & western waters, having its southern termination at a point, in the southern range of hills, where there is the lowest elevation of about 1 mile in length, with a small mound near its center, descended a little into hill basin, & turned over a small rise on our right, leaving the road for a short distance, & camped on the Sweet Water, about $1/2$ mile from the road, Distance $7 \frac{3}{4} = 18 \frac{3}{4}$ miles. grass good, & plenty, & an abundance of red willow fringed the banks.

From June 24th to 26th: $17 \frac{3}{4}$ miles \pm $20 \frac{1}{4}$ miles. 112.

(Just about sundown, J. Hollman accidentally shot Prest. Young's John horse & killed him on the 25th.)

[June 27th] (Sunday). Cool, clear, & pleasant; A. Carrington sent a letter to his wife by some men returning to the States & in number. Started rather late, but soon enough to keep out of the way of the next company & get better feed at our camp. crossed a small run, the first crossed as tributary to the Pacific; running S.W. breeze from S.E. just before crossing run, hills[p. 37] on each side of road, have heavy beds of red mineral clay. Soon as we crossed run turned out to feed, distance $6 \frac{1}{4}$ miles. Started & rode over a gravelly road, though hard, crossed a quick sand bed, with a little water distance 9 miles = $15 \frac{1}{4}$ miles. grass scanty; in going through the South Pass, which is from 20 to 25 miles wide from the bluffs on the south side to the base of the Wind River chain on the North, you would hardly suspect you were crossing a line of a portion of the great back bone of North America, for from the Sweet Water to our present camp, with the exception of the snowy sumits of the Wind River chain, & the Southern range of bluffs accompanied, by the 2 table rocks, a few conical peaks & 1 large mound, you see nothing but shallow valleys, wide plains & low swelling hills, the road in fact for the

last 3 1/2 miles, being much more level than in most prairie country for the same distance, sage in abundance as usual, which with absinthe or grease bush is our fuel tonight, prevailing soil red & redish clay, sprinkled over slightly with gravel makeing a hard good road, but severe on the feet of unshod oxen.

[June] 28th. Clear & pleasant, started 1/2 past 7, road hard & some gravelly as usual; quite level, passed over a bed of limestone; came to a fork in the road we took the left for Bridger, the right leads to the Bear River bend. Scenery that of a gently rolling plain, with low hills occasionally, sprinkled with gravel & covered with sage & a very scanty growth of grass, main soil, clay, redish & yellowish, alternating. noon halt on Little Sandy thickly fringed with red willow now about 10 or 12 yards wide distance 13 1/2 miles, grass scanty, scattered cumuli. 1/2 past 4 started & crossed Little Sandy in a short distance met Mr. Bridger & 2 men with him, as the Prest. wished to converse with him, we soon turned a little to the left & camped at 6 on the creek we crossed grass good & plenty, distance 1 3/4 = 15 1/4 miles, cloudy. Prest. Young & the 12 had a conversation with Mr. Bridger, T. Bullock Wm. Clayton & A. Carrington took notes.

[June] 29th. Mr. Bridger & men, continued on to Ft. John clear & pleasant, view very extensive over a level plain, bounded in some directions by low hills & low table mounds, & in some by the horizon, in others by snow capped mountains, soil & vegetation as usual. Started, 1/4 to 8, rode over a level gravelly road to Big Sandy, 6 3/4 miles, & noon halt at 11, now about 60 yds. wide, grass good, from Ford on Little Sandy to that on Big Sandy 8 1/2 miles. these 2 streams are said to be perfectly dry in the fall, you then get water by digging. Scattering clouds. Latitude of this ford by Prof. Pratt 42° 06' 42". a few scattering cotton woods on this stream.