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BOOK A-334

FILED
MAY 9 1905

FIELD NOTES

OF THE Re SURVEY OF THE

East Boundary

of

Township 13 North, Range 16 West

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Nephi P. Anderson, United States Deputy Surveyor,

der his Contract No. 257, dated September 20, 1902.

rvey commenced September 1, 1903.

rvey completed September 2, 1903.

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Res. high 6-01-46 ✓

NAMES AND DUTIES OF ASSISTANTS.

Lorenzo W. Anderson,	Chainman.
William N. Lee,	Chainman,
John S. Christensen,	Moundman,
Lewis O. Johnson,	Flagman.

6—161

PRELIMINARY OATHS OF ASSISTANTS.

We, Lorenzo W. Anderson and William N. Lee do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of Resurvey of the east boundary of Tp. 13 N., R. 16 W. and retracement of fractional S. Bdy. T. 14 N. R. 16 W. of the Salt Lake Base and Meridian, Utah.

Lorenzo W. Anderson, Chainman.

William N. Lee, Chainman.

Subscribed and sworn to before me this 18th day of August, 1903.

SEAL

Nels Jenson, Notary Public.

We, John S. Christensen and ..... do solemnly swear that we will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of Resurvey of the east boundary of Tp. 13 N., R. 16 W. and retracement of fractional S. Bdy. T. 14 N. R. 16 W. of the Salt Lake Base and Meridian, Utah.

John S. Christensen, Moundman.

....., Moundman.

Subscribed and sworn to before me this 18th day of August, 1903.

SEAL

Nels Jenson, Notary Public.

We, ... and ..... do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of .....

....., Axman.

....., Axman.

Subscribed and sworn to before me this ..... day of ....., 189

SEAL

I, Lewis O. Johnson, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of Resurvey of the east boundary of Tp. 13 N., R. 16 W. and retracement of fractional S. Bdy. T. 14 N. R. 16 W. of the Salt Lake Base and Meridian, Utah.

Lewis O. Johnson, Flagman.

Subscribed and sworn to before me this 18th day of August, 1903.

SEAL

Nels Jenson, Notary Public.

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Resurvey of the E. Bdy. of Tp. 13 N., R. 16 W.

Chains	
	Survey commenced September 1, 1903, and executed with a W. & L. E. Gurley engineer's transit. The horizontal limb is provided with two double verniers, placed opposite to each other, reading to 20" of arc, and the telescope axis with a 6 ins. vertical circle, reading by a double vernier to 20" of arc.
	The instrument was examined and tested on the true meridian at Salt Lake City, found correct, and approved by the surveyor general for Utah, July 16, 1903.
	The observed elevations are taken from a 1⅞ ins. aneroid barometer, made by Asprey London, and adjusted to railway level.
	I commence at the standard cor. of Tp. 13 N., Rs. 15 and 16 W., which is a quartzite, 6×14×7 ins. above ground, marked and witnessed as described by the surveyor general. Latitude 41°48'40" N., longitude 113°38'22" W.
	At 8h 48m 9s p.m., l.m.t., I observe Polaris at eastern elongation in accordance with instructions in the manual, and mark the line thus determined, by a tack driven in a wooden peg set in the ground, five chains north of my station.
	September 1, 1903.
	September 2: At 7h 40m a.m., l.m.t., I lay off the azimuth of Polaris, 1°37'.4, to the west, and mark the meridian thus determined by a tack on a wooden peg set in the ground, west of the point established last night. The magnetic bearing of said true meridian is N. 17°38' W., which gives the magnetic declination, 17°38' E.
	Having previously retraced the E. Bdy. of the Tp. and flagged the corners
	I run
	N. 0°57' E., bet. secs. 31 and 36.
5.05	Over mountainous land.
	Ascend.
8.45	Ridge, bears W.S.W., descend.
40.00	In gulch, draining S.E.
	Set a quartz stone, 14×10×9 ins., 9 ins. in the ground,

Chains	
	for 1/4 sec. cor., marked 1/4 on W. face, dig pits 18×18×12 ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor.
	All indications of the old cor. have disappeared.
41.80	Wash, draining S.E. Dim road in drain.
	Ascend.
72.00	Ridge, bears E.N.E. and S.S.W., descend gradually.
80.00	I find the old cor. of secs. 25, 30, 31 and 36, which is a quartz stone, 6×15×7 ins. above ground, firmly set, and marked as described by the surveyor general. Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
	Land, mountainous.
	Soil, gravelly, mostly rocky, 3rd rate.
	No timber.
	Mountainous land 80.00 chs.
	With the flag at next sec. cor. plainly in sight I run.
	N. 0° 8' W., bet. secs. 25 and 30 through dense sage.
	Descend over mountainous land.
19.30	Dove Creek, 4 lks. wide, 2 ins. deep, flows E.N.E. along foot of mountain. Elevation 6210 ft.
	Ascend gradually through dense sage brush.
40.15	I find the old 1/4 sec. cor. stone loose on the ground.
	Set a quartz stone, 15×9×4 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, dig pits, 18×18×12 ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
44.55	County road, between Junction Valley and Park Valley, bears E. and W.
80.30	Intersect the cor. of secs. 24, 25, 19 and 30, which is a quartz stone, 5×15×6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.
	Land, mountainous.
	Soil, gravelly, partly rocky, 2nd and 3rd rate.
	No timber.
	Mountainous land 19.30 chs., dense undergrowth 61.00 chs.

Resurvey of the E. Bdy. of Tp. 13 N., R. 16 W.

Chains	
	With the line flagged to next sec. cor. I run
	N. 0°08' W., bet. secs. 19 and 24.
	Over mountainous land through dense sagebrush
4.00	Foot of mountain, ascend steeply.
25.00	Spur, sloping E.S.E. Elevation 6520 ft., descend.
40.22	I find the old 1/4 sec. cor. stone loose on the ground, a quartz stone, 30 × 12 × 4 ins., which I reset, 6 ins. in the ground, on bed rock, in mound of stone, marked 1/4 on W. face, for 1/4 sec. cor., and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
49.25	Brook, 1 lk. wide, 1 in. deep, flows S.E. Elevation 6300 ft.
51.00	Road, bears N.W. and S.E., ascend.
57.00	Ridge, sloping S.E.
66.00	Open hollow, draining S.E.
80.44	I find the old cor. of secs. 13, 18, 19 and 24, which is a quartz stone, 6 × 12 × 5 ins. above ground, firmly set, marked as described by the surveyor general. Raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.
	No timber.
	Mountainous land 80.44 chs.

	With the line flagged to the next sec. cor. I run
	N. 0°08' W., bet. secs. 13 and 18.
	Over mountainous land.
	Ascend.
9.00	Ridge, sloping S.E., descend.
17.25	Hollow, draining S.E.
31.00	Ridge, sloping S.E.
40.38	I find the old 1/4 sec. cor., which is a quartz stone, 6 × 11 × 5 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.
	This cor. is on the north side of a hollow, course S.E., but the stream, mentioned in the old field notes has disappeared.
	Ascend.

Chains	
54.00	Ridge, sloping S.E., descend
73.00	Hollow, draining S.E., ascend
80.00	A point 65 lks. south of the old sec. cor.
	Set a quartz stone, 17×8×5 ins., 12 ins. in the ground, for closing cor. of secs. 12 and 13, marked C. C. on W. face, with 4 grooves on S. and 2 grooves on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable. Elevat. 6860 ft.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.
	No timber, dense sage brush.
	Mountainous land, 80.00 chs.
	With the course to next sec. cor. flagged
	I run
	N. 0° 08' W., on E. bdy. of sec. 12.
	Over mountainous land.
0.65	I find the old sec. cor. to secs. 7, 12, 13 and 18, which is a quartz stone, 8×11×4 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.
	I destroy all marks thereon pertaining to secs. 12 and 13.
4.00	Ridge, sloping S.E. Descend
15.00	Hollow, draining S.E., altitude 6840 ft., descend.
33.50	Spring, draining S.E., 11.00 chs. W., elevation 7050 ft.
40.00	Set a quartz stone, 17×10×6 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
40.85	I find the old 1/4 sec. cor., which is a quartz stone, 8×10×4 ins. above ground, marked and witnessed as described by the surveyor general.
	I destroy all marks thereon pertaining to sec. 12.
72.00	Main ridge, sloping S.S.E. Elevation 7600 ft.
	Descend.
80.00	A point 55 lks. south of the old sec. cor.
	Set a quartz stone, 17×7×6 ins., 11 ins. in the ground, for closing cor. of secs. 1 and 12, marked C C on W., with 5 grooves on S. and 1 groove on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
	Land, mountainous.

Resurvey of the E. Bdy. of Tp. 12 N., R. 16 W.

Chains	
	Soil, rocky, 4th rate.
	No timber, dense sagebrush.
	Mountainous land 80.00 chs.
	Having the line flagged to the Tp. cor. I run
	N. 0°08' W., on E. bdy. of sec. 1.
	Descend over mountainous land.
0.85	The old sec. cor. to secs. 1, 6, 7 and 12 which is a quartz stone, 6×10×7 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.
	I destroy all marks thereon pertaining to secs. 1 and 12.
40.00	Set a sand stone, 16×6×6 ins., 11 ins. in the ground, for 1/4 sec. cor. to sec. 1, marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable.
40.85	I find the old 1/4 sec. cor., which is a quartz stone, 6×7×7 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.
	I destroy all marks thereon pertaining to sec. 1.
69.30	Road, to timber, bears S. W. and N. E.
71.00	Ridge, bears N. E. and S. W.
76.00	Descend abruptly.
80.72	Intersect the cor. of Tps. 13 and 14 N., Rs. 15 and 16 W., which is a quartz stone, 8×14×7 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.
	Land; mountainous.
	Soil, rocky, 4th rate.
	No timber, dense sage brush.
	Mountainous land 80.72 chs.
	September 2, 1903
	For general description see notes of subdivisions.
	Nephi P. Anderson, U. S. Deputy Surveyor.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..., United States Deputy Surveyor, d solemnly swear that, in pursuance of a contract received from ..... United States Surveyor General for ....., bearing date of th ..... day of ....., 190 , I have well, faithfully, and truly, in my ow proper person, and in strict conformity with the instructions furnished by the United States Survey General for ....., the Manual of Surveying Instructions, and the laws of th United States, surveyed all those parts or portions of .....

Tropical affidavits see book O. Tp 14 N R 16 W ..... of the ..... meridian, in the ..... of ....., which are represented in th foregoing field notes as having been surveyed by me, and under my direction; and I do further solemn swear that all the corners of said survey have been established and perpetuated in strict accordance wi the Manual of Surveying Instructions, and the special written instructions of the United States Survey General for ..... and in the specific manner described in the field notes, and th the foregoing are the original field notes of such survey.

.....
United States Deputy Survey

Subscribed by said ....., and sworn to before me this ..... day of ....., 190

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City Utah, June 14, 1905

The foregoing field notes of the survey of the East Boundary of Township 13 North Range 16 West of the Salt Lake Base & Meridian Utah

executed by Nephi P. Anderson under his contract No. 257, dated September 20, 1902, having bee critically examined, and the necessary corrections and explanations made, the said field notes, and th surveys they describe, are hereby approved.

Edward H. Anderson
United States Surveyor Genera

I certify that the foregoing transcript of the field notes of the above-described surveys in ....., has been correctly copied from the original notes on file in this office.

.....
United States Surveyor Genera

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B

15

FILED
MAY 9 1905

BOOK A-334

FIELD NOTES

OF THE SURVEY OF THE

Subdivisional Lines
of
Township 13 N., Range 16 West

Of the Salt Lake Base and Meridian,
State of Utah

AS SURVEYED BY

Nephi P. Anderson, United States Deputy Surveyor,

Under his Contract No. 257, dated September 20th, 1902.

Survey commenced September 2, 1903

Survey completed September 16, 1903

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high 59 61.62 ✓
low 19-50 ✓
Closure - - 0-11-71 ✓

BOOK A-334

NAMES AND DUTIES OF ASSISTANTS.

Lorenzo W. Anderson, Chainman.
William N. Lee, Chainman.
John S. Christensen, Moundman.
Lewis O. Johnson, Flagman

6—151

PRELIMINARY OATHS OF ASSISTANTS.

WE, Lorenzo W. Anderson and William N. Lee do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of Subdivisional lines of Tp. 13 N., R. 16 W. of the Salt Lake Base and Meridian, Utah.

Lorenzo W. Anderson, Chainman.

William N. Lee, Chainman.

Subscribed and sworn to before me this 18th day of August, 1903

SEAL

Nels Jenson, Notary Public.

~~WE~~ I, John S. Christensen and ..... do solemnly ~~swear~~ that ~~we~~ I will well and truly perform the duties of moundmen ~~an~~ in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of Subdivisional lines of Tp. 13 N., R. 16 W., of the Salt Lake Base and Meridian, Utah.

John S. Christensen, Moundman.

....., Moundman.

Subscribed and sworn to before me this 18th day of August, 1903

SEAL

Nels Jenson, Notary Public.

WE, ... and ..... do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of .....

....., Axman.

....., Axman.

Subscribed and sworn to before me this ..... day of ....., 189

SEAL

.....

.....

I, Lewis O. Johnson, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of Subdivisional lines of Tp. 13 N., R. 16 W. of the Salt Lake Base and Meridian, Utah.

Lewis O. Johnson, Flagman.

Subscribed and sworn to before me this 18th day of August, 1903

SEAL

Nels Jenson, Notary Public.

6—151

Subdivision of Tp. 13 N., R. 16 W.

Chains

Survey commenced September 2, 1903, and executed with a W. & L. E. Gurley engineer's transit, heretofore described.

At the cor. of Tp. 13 N., Rs. 15 and 16 W., at 8h 45m p.m., m.t., I observe Polaris at E. elong., and mark the azimuth line by a tally pin, set in front of a lantern 4 chs. dist.

September 3: At 7h a.m., I turn off the azimuth of Polaris, 1°37'.4, to the west, and mark the Meridian thus determined by a cross on a stone firmly set in the ground, west of the point established last night.

The magnetic bearing of the true meridian is N. 17°36' W., which gives the magnetic declination 17°36' E.

Thence I retrace west on S. bdy. of sec. 36, and at 40.00 chs. fall 17½ lks. N. of the standard ¼ sec. cor., and at 80.01 chs. fall 35 lks. N. of the standard cor. of secs. 35 and 36, set by me a year previous. The S. bdy. of the Tp. therefore bears S. 89°45' W.

From the standard cor. of secs. 35 and 36, on S. bdy. of the Tp., which is a quartz stone, 5x6x5 ins. above ground, firmly set, marked and witnessed as described by the surveyor general I run

N. 0°01' W., bet. secs. 35 and 36

Over mountainous land.

7.00 Hollow, draining E.; ascend.

16.50 Ridge, bearing E. N. E., descend

32.45 Road, bears E. and W.

40.00 Set a quartz stone, 17x7x6 ins., 11 ins. in the ground, for ¼ sec., marked ¼ on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.

a spring bears N. 55° 40' E., 2600 lks. dist.

46.50 Hollow, draining E. S. E.; ascend.

68.00 Ridge, bears N. E. and S. W., descend.

72.00 Hollow, draining N. E.

80.00 Set a sandstone, 13x10x7 ins., 9 ins. in the ground for cor. of secs. 25, 26, 35 and 36, marked with 1 notch on S. and E. edges, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.

, mountainous.

Soil, gravelly and rocky, 3rd rate.

No timber.

Mountainous land 80.00 chs.

Chains	
	N. 89° 45' E., on random line, bet. secs. 25 and 36
40.00	Set temp. 1/4 sec. cor.
81.34	Intersect the E. bdy. of the Tp. 34 lks. N. of the cor. of secs. 25, 30, 31 and 36, which is a quartz stone, 15x7x6 ins. [illegible] firmly set, marked and witnessed as described by the surveyor general.
	Thence I run
	West, on true line, bet. secs. 25 and 36.
	Over mountainous land.
34.30	Hollow, draining N., ascend.
41.34	Set a sandstone, 14x10x4 ins., 9 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable.
57.00	Ridge, bears N.W. and S.E., elevation by aneroid 7350 ft.; descend.
71.25	Hollow, draining N.
81.34	The cor. of secs. 25, 26, 35 and 36.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.
	No timber.
	Mountainous land 81.34 chs.
	N. 0° 01' W., bet. secs. 25 and 26.
	Descend over mountainous land.
21.00	Hollow, draining N.W.
28.80	Dove Creek, 3 lks. wide, 3 ins. deep, flows E.; elevation 6280 ft.
	Leave hollow and ascend through dense undergrowth.
40.00	Set a quartz stone, 13x7x6 ins., 8 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
41.50	County road, bet. Park Valley and Junction Valley, bears E. and W.
74.00	Foot of ridge, steep ascent.
80.00	Set a sand stone, 14x10x4 ins., 9 ins. in the ground, for cor. of secs. 23, 24, 25 and 26, marked with 2 notches on S. and 1 notch on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable. Elevation by aneroid 6680 ft.
	Land, mountainous and high benches.
	Soil, gravelly, partly rocky, 3rd rate.
	No timber.
	Mountainous land 28.80 chs.; dense ungrowth 51.20 chs.

Subdivision of T. 13 N., R. 16 W.

Chains.	
	At the 1/4 sec. cor. of secs. 25 and 26, I observe Polaris at E. elong. 8h 41m, p.m., l.m.t.; and mark the azimuth by a tally pin, set in front of a lantern. Sep. 3, 1903.
	Sep. 4, 7h a.m., l.m.t., I lay off from the tally pin to the west an azimuth angle of 1° 37'.4 for a true meridian, which I mark by a cross, cut on S. face of a sand stone, 16×8×5 ins., set 10 ins. in the ground, at north side of the road, 240 chs. N. of cor. The magnetic bearing of said true meridian is N. 17° 35' W., which gives the magnetic declination 17° 35' E.
	East, on random line, bet. secs. 24 and 25
40.00	Set temp. 1/4 sec. cor.
81.43	Intersect the E. bdy. of the Tp. 31 lks. S. of the cor. of secs. 19, 24, 25 and 30, which is a quartz stone, 6×15×5 ins above ground, marked and witnessed as described by the surveyor general.
	Thence I run Over bench land, through dense undergrowth. S. 89° 47' W., on true line, bet. secs. 24 and 25.
41.43	Set a sand stone, 14×8×5 ins., 9 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.; pits impracticable;
77.40	Foot of ridge, ascend.
81.43	The cor. of secs. 23, 24, 25 and 26.
	Land, high bench.
	Soil, gravelly, 2nd. rate.
	No timber.
	Dense undergrowth 81.43 chs.
	N. 0° 01' W., bet. secs. 23 and 24.
	Ascend, over mountainous land,
29.50	Ridge, bears E. and W., altitude 7160 ft., descend.
40.00	Set a quartz stone, 14×9×4 ins., 9 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise

Chains	
	a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
50.80	Canyon, draining E.S.E., altitude 6800 ft.; descend.
69.00	Spur, sloping S.E., altitude 7100 ft., descend.
80.00	Set a quartzstone, 16×9×5 ins., 11 ins. in the ground, for cor. of secs. 13, 14, 23 and 24, marked with 3 notches on S. and 1 notch on E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd. rate.
	No timber.
	Mountainous land 80.00 chs.
	N. 89°47' E., on a random line, bet. secs. 13 and 24.
40.00	Set temp. ¼ sec. cor.
81.27	Intersect the E. bdy. 34 lks. south of the cor. of secs. 13, 18, 19 and 24, which is a quartz stone, 6×12×5 ins., above ground, marked and witnessed as described by the surveyor general.
	Thence I run
	S. 89°32' W., on true line bet. secs. 13 and 24.
	Descend, over mountainous land.
5.50	Hollow, draining S. E.
14.00	Spur, projecting S.E.
23.50	Hollow, draining S.E., altitude 6600 ft.
	Ascend steeply.
30.00	Ridge, sloping S.E., altitude 6740 ft.
41.27	Set a quartz stone, 14×8×7 ins., 9 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
43.00	Hollow, draining S.E.
55.00	Canyon, draining S.E., with several small springs both above and below the line. Road same bearing. Ascend.
81.27	The cor. of secs. 13, 14, 23 and 24.
	Land, mountainous.
	Soil, gravelly, 3rd. rate.
	No timber.
	Mountainous land 81.27 chs.

Subdivision of T. 13 N., R. 16 W.

Chains	
	N. 0°01' W., bet. secs. 13 and 14.
	Descend over mountainous land.
12.50	Canyon, draining S.E., altitude 6845 ft.
	A spring bears N. 60° W., 36.00 chs. dist., coral W. of spring
13.00	Road, course S.E. and N.W., ascend.
40.00	Set a quartz stone, 15×11×3 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable.
73.00	Small hollow, draining S.S.E.
80.00	Set a quartz stone, 17×6×5 ins., 11 ins. in the ground, for cor. of secs. 11, 12, 13 and 14, marked with 4 notches on S. and 1 notch on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.
	No timber.
	Mountainous land 80.00 chs.
	N. 89° 32' E., on a random line, bet. secs. 12 and 13.
40.00	Set temporary 1/4 sec. corner.
81.11	Intersect the east boundary of the Tp. 5 lks. N. of the clos. cor. of secs. 12 and 13, heretofore described. Thence I run
	S. 89° 37' W., on true line, bet. secs. 12 and 13. over mountainous land.
6.50	Hollow, draining S.E., ascend.
13.00	Spur, sloping S.E., descend.
36.00	Spring, 1.00 ch. N., drains S.E., in hollow. Elevation 7180 ft.
41.11	Set a quartz stone, 18×9×3 ins., on bed rock, 4 ins. in the ground, in mound of stone, marked 1/4 on N. face, and raise a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable.
52.00	Spur, bears S.E.
70.00	Hollow, draining S.E.; spring 2.00 chs. S.
76.00	Spur, sloping S.E.
79.00	Hollow, draining S.S.W.
81.11	The cor. of secs. 11, 12, 13 and 14.
	Land, mountainous.
	Soil, rocky, 4th rate.
	No timber.

Chains	
	Mountainous land 81.11 chs.
	September 4, 1905.
	The sky being overcast, no observation on Polaris can be made.
	September 5.
	N. 0°01' W., bet. secs. 11 and 12.
	Ascend over mountainous land.
18.00	Peak, on ridge, bears W. and N.E., altitude 7750 ft.
	Descend.
32.00	Head of hollow, draining N.W.; ascend.
40.00	Set a quartz stone, 14×12×5 ins., 9 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable.
80.00	Set a quartz stone, 17×8×6 ins., 11 ins. in the ground, for cor. of secs. 1, 2, 11 and 12, marked with 5 notches on S. and 1 notch on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable; altitude 8000 ft.
	Land, mountainous.
	Soil, rocky, 4th. rate.
	No timber.
	Mountainous land 80.00 chs.
	N. 89°37' E., on a random line, bet. secs. 1 and 12.
40.00	Set temporary 1/4 sec. cor.
80.95	Intersect the E. ldy. of the Tp. 12 lks. N. of the closing corner of secs. 1 and 12, heretofore described.
	Thence I run
	S. 89°42' W., on true line, bet. secs. 1 and 12.
	Ascend over mountainous land.
40.95	On peak, altitude by aneroid 8100 ft.
	Set a quartz stone, 17×6×5 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
51.00	Head of hollow, draining S.E.; ascend ridge.
63.00	Top of ridge bears E. and W., descend.
80.95	The cor. of secs. 1, 2, 11 and 12.
	Land, mountainous.
	Soil, rocky, 4th. rate.
	Timber, aspens in patches, pines on S. 1/2 of Sec. 1.
	Mountainous land 80.95 chs.

Subdivision of T. 13 N., R. 16 W.

Chains	
	N. 0° 01' W., on a random line, bet. secs. 1 and 2.
40.00	Set temp. 1/4 sec. cor.
81.40	Intersect the N. bdy. of the Tp. 79 lks. W. of the cor. of secs. 35 and 36, T. 14 N., R. 16 W., which is a sand stone, 5×10×5 ins. above ground, set by me in 1902, marked and witnessed as described by the surveyor general.
	Set a quartz stone, 17×6×5 ins., 11 ins. in the ground, for closing cor. of secs. 1 and 2, marked C. C. on S., with 5 grooves on W. and 1 groove on E. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor.; pits impracticable.
	Thence I run
	S. 0° 01' E., on true line, bet. secs. 1 and 2.
	Over mountainous land.
2.00	Leave brush, ascend.
19.00	Ridge, sloping E. N. E., descend.
30.50	Road, in hollow, draining N. E., altitude 7300 ft.
31.00	Enter aspen brush.
34.50	Road, ~~course~~ E., N. E.
41.40	Set a quartz stone, 15×8×7 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, dig pits, 18×18×12 ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
47.00	Spring, 8 chs. W., drains W., altitude of same 7420 ft.
57.50	Leave heavy brush, enter pines.
81.40	The cor. of secs. 1, 2, 11 and 12.
	Land, mountainous.
	Soil, gravelly and rocky 2nd. and 3rd. rate.
	Timber, heavy brush and pines 26.50 chs.
	Mountainous land 81.40 chs.
	From the standard cor. of secs. 34 and 35, on S. bdy. of the Tp., which is a stone, firmly set, marked and witnessed as described by the surveyor general, I run
	N. 0° 02' W., bet. secs. 34 and 35.
	Descend over mountainous land.
14.00	Hollow, draining N. E.
32.00	Spur, bears E.
40.00	Set a sand stone, 14×9×6 ins., 9 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise

Chains	
	a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
41.00	Road from W., forks N.E. and S.E.
76.80	Hollow, draining N.E.
80.00	Set a quartz stone, 18×8×4 ins., 12 ins. in the ground for cor. of secs. 26, 27, 34 and 35, marked with 2 notches on E. and 1 notch on S. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
	Land, mountainous.
	Soil, gravelly and rocky; 3rd. rate.
	No timber, dense sage brush.
	Mountainous land 80.00 chs.
	September 5, 1903.
	The sky is cloudy and Polaris can not be observed.
	September 6.
	N. 89°45' E., on a random line, bet. secs. 26 and 35.
40.00	Set temporary ¼ sec. cor.
80.26	Intersect the N. and S. line 5 lks. N. of the cor. of secs. 25, 26, 35 and 36, heretofore described.
	Thence I run
	S. 89°45' W., on true line, bet. secs. 26 and 35.
	over rolling land, through dense undergrowth.
10.50	Ridge, course N.E.
22.50	Hollow, draining N.E.
40.13	Set a sand stone, 14×10×5 ins., 5 ins. in the ground, on bank, for ¼ sec. cor., marked ¼ on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
50.10	Road, course N.E. and S.W.
69.50	Hollow, draining N.E., ascend.
80.26	The cor. of secs. 27, 26, 35 and 34.
	Land, heavy rolling.
	Soil, gravelly and rocky, 3rd. rate.
	No timber.
	Dense sage brush undergrowth 80.26 chs.
	N. 0°02' W., bet. secs. 26 and 27.
	Along rolling eastern slope of mountain.
24.00	Hollow, draining E.S.E.
40.00	Set a quartz stone, 14×10×4 ins., 9 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face, and raise a mound of stone, 2 ft.

Chains	
	base, 1½ ft. high, W. of cor, pits impracticable.
53.00	Spring, 50 lks. E.
58.00	Ridge, bears E. and W.
63.00	Hollow, draining E.
74.00	Ridge, bears S.E. and N.W.
78.25	Road, course N.W. and S.E.
80.00	Set a quartz stone, 17×8×7 ins., 11 ins. in the ground, for cor. of secs. 22, 23, 26 and 27, marked with 2 notches on S. and E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
	Land, mountainous.
	Soil, rocky, 3rd. rate.
	No timber.
	Mountainous land 80.00 chs.
	House of D. G. Talent bears S. 50¾° E.
	Spring bears S. 45¾° E.
	Miner's cabin S. 45¾ W.
	N. 89° 47' E., on random line, between secs. 23 and 26.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect the cor. of secs. 23, 24, 25 and 26.
	Thence Run
	S. 89° 47' W., on true line, bet. secs. 23 and 26.
	Ascend.
3.00	Ridge, sloping S.S.E.
17.00	Spring, 9.00 chs. S.
40.00	Set a quartz stone, 17×9×8 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face, and raise a mound of stone 2 ft. base, 1½ ft. high, N. of cor.; pits impracticable.
	Spring bears S. 33° W.; house D. G. Talent S. 18¼ W.
59.00	Dove Creek, 4 lks. wide, 3 ins. deep, flows S.E. in hollow. Elevation 6730 ft.
80.00	The cor. of secs. 22, 23, 26 and 27.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd. rate.
	No timber, dense sage brush.
	Mountainous land 80.00 chs.
	N. 0° 02' W., bet. secs. 22 and 23.
	Descend over wide, rolling mountain.

Chs.	
39.00	Road, course N.N.W. and S.S.E.
40.00	Enwash, draining S.S.E. in hollow.
	Set a quartz stone, 14×12×6 ins., 9 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable. Altitude 7250 ft.
	Ascend over mountainous slope.
80.00	Set a quartz stone, 16×9×5 ins., 11 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, marked with 3 notches on S. and 2 notches on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable.
	Land, mountainous.
	Soil, coarse gravelly, 3rd. rate.
	No timber, dense sage brush.
	Mountainous land 80.00 chs.
	N. 89° 47' E., on a random line, bet. secs. 14 and 23.
40.00	Set temp. 1/4 sec. cor.
80.12	Intersect N. and S. line 16 lks. S. of the cor. of secs. 13, 14, 23 and 24. Thence I run
	S. 89° 40' W., on true line, bet. secs. 14 and 23.
	Over mountainous land.
25.00	Hollow, draining N.E., ascend.
40.00	Set a quartz stone, 14×8×6 ins., 9 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable.
62.00	Ridge, sloping N., descend.
80.12	The cor. of secs. 14, 15, 22 and 23.
	Land, mountainous.
	Soil, coarse gravelly, 3rd. rate.
	No timber.
	Mountainous land 80.12 chs.
	N. 0° 02' W., bet. secs. 14 and 15.
	Ascend over mountainous land.
10.00	Ridge, sloping N.W., descend.
23.40	Road, course S.W. and N.E., in hollow. Ascend.
40.00	Set a sand stone, 17×6×5 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise

Chains	
	a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
76.00	Dividing slope, bears E. and W.; descend gradually.
80.00	Set a quartz stone, 13×8×6 ins., 9 ins. in the ground, for cor. of secs. 10, 11, 14 and 15, marked with 4 notches on S. and 2 notches on E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
	Land, mountainous.
	Soil, coarse gravelly, 3rd. rate.
	No timber.
	Mountainous land 80.00 chs.
	At this cor., at 8h 29m 3s p.m., l. m. t., I observe Polaris at E. elong. in accordance with instructions in Manual, and mark the point in the line thus determined by a tack driven in a wooden stake set in the ground, 5 chs. N. of my station.
	September 6, 1903.
	September 7: At 8h a.m., I lay off the azimuth of Polaris, 1°37'.4 to the west, and mark the meridian thus determined, by a cross on a stone firmly set in the ground 5 chs. W. of the point established last night. The magnetic bearing of the true meridian is N. 17°38' W., which gives the magnetic declination 17°38' E.
	N. 89°40' E., on random line, bet. secs. 11 and 14.
40.00	Set temp. ¼ sec. cor.
80.04	Intersect the cor. of secs. 11, 12, 13 and 14.
	Thence I run
	S. 89°40' W., on true line, bet. secs. 11 and 14.
	Ascend over mountainous land.
3.00	Ridge, sloping S.S.W., descend.
12.00	Open hollow, draining S.S.W.
21.00	Ridge, sloping S.W., descend.
36.70	Hollow, draining S.S.W., road on W. side, course N. and S.
40.02	Set a quartz stone, 15×8×6 ins., 10 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.; pits impracticable.
	A spring bears S. 85° E., 6.00 chs. dist.
46.50	Enter aspen brush.
50.00	Leave aspen brush.
67.00	Low divide, bears N.E. and S.W.; descend.
74.75	Road, course S. and N.E.
75.30	Road, in open hollow, course S. and N.W.; ascend.
80.04	The cor. of secs. 10, 11, 14 and 15.
	Land, mountainous.

Chains.	
	Soil, gravelly, 3rd rate.
	Timber, aspens, in patches.
	Mountainous land 80.04 chs.
	N. 0° 02' W., bet. secs. 10 and 11.
	Over ridges, through dense undergrowth.
4.00	Road, course N.W. and S.E., enter valley.
17.50	Spring, 6.00 chs. W., corat. N.E. of same.
40.00	Set a quartz stone, 14×10×5 ins., 9 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
	A spring, 3.50 chs. W., elevation 7340 ft. Ascend.
43.00	Spring, 4.00 chs. W.
52.00	Hollow, draining W.S.W. Ascend.
65.00	Point of ridge, projects S.W.; descend.
72.50	Hollow, draining S.S.W.; ascend.
80.00	Set a quartz stone, 12×10×6 ins., 8 ins. in the ground, for cor. of secs. 2, 3, 10 and 11, marked with 5 notches on S. and 2 notches on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
	Land, ridgy.
	Soil, gravelly, 3rd rate.
	No timber.
	Dense undergrowth 80.00 chs.
	N. 89° 40' E., on random line, bet. secs. 2 and 11.
40.00	Set temp. 1/4 sec. cor.
80.00	Intersect N. and S. line 11 lks. N. of the cor. of secs. 1, 2, 11 and 12.
	Thence run
	S. 89° 45' W., on true line, bet. secs. 2 and 11.
	Over mountainous land; descending.
22.40	Road, course N.E. and S.S.W., ascend.
34.00	Ridge, bears N.W. and S.S.W., descend.
40.00	Set a quartz stone, 14×7×6 ins., 9 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor., pits impracticable. Elevation by aneroid 7250 ft.
48.00	Hollow, draining S.S.W.
54.00	Ridge, bears S.W., descend.
74.50	Enter aspens.
78.50	Hollow, draining S.W., elevation 7460 ft., ascend.
80.00	The cor. of secs. 2, 3, 10 and 11.

Chains	
	Land, mountainous.
	Soil, gravelly, 2nd rate.
	Timber, aspens, in patches.
	Mountainous land 80.00 chs.
	N. 0°02' W., on random line, bet. secs. 2 and 3.
40.00	Set temp. 1/4 sec. cor.
82.15	Intersect the N. bdy. of the Tp. 108 chs. W. of the cor. of secs. 34 and 35, in Tp. 14 N., R. 16 W. which is a stone, firmly set, marked and witnessed as described by the surveyor general. Altitude, by aneroid, 7600 ft.
	Set a mica stone, 17 x 8 x 5 ins., 11 ins. in the ground, for closing cor. of secs. 2 and 3, marked c. c. on S., with 4 grooves on W. and 2 grooves on E. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor., pits impracticable.
	Thence I run
	S. 0°02' E., on true line, bet. secs. 2 and 3.
	Descend over mountainous land.
4.00	Hollow, draining E., ascend.
10.10	Ridge, bears E., descend.
18.00	Hollow, draining N. E., ascend.
42.15	Set a quartz stone, 14 x 8 x 7 ins., 9 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
58.00	Low pass in divide, course E. and S. W., descend.
74.00	Hollow, draining S. E., ascend.
82.15	The cor. of secs. 2, 3, 10 and 11.
	Land, mountainous.
	Soil, gravelly, 3rd rate.
	Timber, aspens, in patches.
	Mountainous land 82.15 chs.
	September 7, 1903.
	I begin observation on Polaris, but fail because of clouds.
	September 8.
	From the cor. of secs. 33 and 34, on S. bdy. of the Tp., set by me in previous contract, a stone, firmly set, marked and witnessed as described by the surveyor general;

Chains	
	Thence run
	N. 0° 02' W., bet. secs. 33 and 34.
	Descend over mountainous land.
4.00	Enter dense aspens.
18.00	Leave aspens, head of hollow, draining N. N. W.
40.00	Small spur, sloping N. W.
	Set a mica shale, 35 x 12 x 4 ins., on bed rock, in mound of stone, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable.
51.00	Canyon, draining W., altitude 6840 ft., ascend.
52.50	Road, course E. and W.
78.00	Ridge, course W. S. W., altitude 7150 ft., descend.
80.00	Set a sand stone, 20 x 10 x 6 ins., 15 ins. in the ground, for cor. of secs. 27, 28, 33 and 34, marked with 1 notch on S. and 3 notches on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable.
	Land, mountainous.
	Soil, gravelly and rocky, 2nd and 3rd rate.
	Timber, aspens.
	Mountainous land 80.00 chs.
	N. 87° 45' E., on random line, bet. secs. 27 and 34.
40.00	Set temp. 1/4 sec. cor.
79.84	Intersect the N. and S. line 12 lks. N. of the cor. of secs. 26, 27, 34 and 35.
	Thence run
	S. 89° 50' W., on true line, bet. secs. 27 and 34.
	Ascend over mountainous land.
23.00	Enter aspens.
27.00	Leave aspens.
39.92	Set a quartz stone, 16 x 12 x 3 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.; pits impracticable.
49.50	Top of divide, course N. and S., altitude 7700 ft.
	Descend.
79.84	The cor. of secs. 27, 28, 33 and 34.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd. rate.

Subdivision of T. 13 N., R. 16 W.

Chains	
	Timber, aspens, in patches.
	Mountainous land 79.84 chs.
	N. 0° 02' W., bet. secs. 27 and 28.
	Descend over mountainous land.
6.25	Canyon, draining W., ascend.
34.00	Ridge, bears N.E. & S.W., altitude 7550 ft., descend.
40.00	Set a lime stone, 16×9×6 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable.
71.50	Small hollow, draining N.W.
78.90	Hollow, draining W.N.W., altitude 6950 ft., ascend.
79.90	County road, bet. Junction Valley and Park Valley, course E. and W.
80.00	Set a quartz stone, 22×7×6 ins., 16 ins. in the ground, for cor. of secs. 21, 22, 27 and 28, marked with 2 notches on S. and 3 notches on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable; altitude 6960 ft.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd. rate.
	No timber.
	Mountainous land 80.00 chs.
	N. 89° 50' E., on random line, bet. secs. 22 and 27.
40.00	Set temp. 1/4 sec. cor.
80.00	Intersect the N. and S. line 11 lks. S. of the cor. of secs. 22, 23, 26 and 27.
	Thence I run
	S. 89° 45' W., on true line, bet. secs. 22 and 27.
	Ascend.
5.10	County road, bet. Junction Valley and Park Valley, curving N.
17.95	Recross road, curving W.S.W.
23.20	Road turns N.W.
25.10	Road turns S.W.
40.00	Set a sand stone, 17×10×4 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.; pits impracticable.
	Miner's cabin bears S. 1° E.

Chains	
44.00	Divide, course N. and S.S.W., altitude 7450 ft., descend.
80.00	The cor. of secs. 21, 22, 27 and 28.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.
	No timber.
	Mountainous land 80.00 chs.
	N. 0°02' W., bet. secs. 21 and 22.
	Ascend over mountainous land.
8.50	Ridge, course W.S.W.
16.50	Hollow, draining S.W.
26.00	Ridge, course W., changing to S.W.
32.00	Hollow, draining W.N.W.
38.00	Ridge, sloping W.N.W.
40.00	Set a quartz stone, 14×10×7 ins., on bed rock in mound of stone, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable. Altitude 7230 ft.
	Descend.
58.00	Hollow, draining W.S.W., ascend.
68.00	Ridge, sloping W., descend.
80.00	Set a quartz stone, 17×7×4 ins., 11 ins. in the ground, for cor. of secs. 15, 16, 21 and 22, marked 13 N. on N.E. and 16 W. on S.E. faces, with 3 notches on S. and E. edge; dig pits, 18×18×12 ins. in each sec., 5 1/2 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd. rate.
	No timber.
	Mountainous land 80.00 chs.
	At 8h 21.5m p. m. l. m. t., I observe Polaris at E. elong. and mark the azimuth by a tally pin, set in front of a lantern, 6.00 chs. from the sec. cor. last described.
	September 8, 1903.
	Sep. 9, 7h a. m., l. m. t., I lay off an azimuth angle of 1°37'.4 from the tally pin to the west, for the true meridian, and mark the line by a stake, 2 ins. diam., 15 ins. long, firmly driven

Chains.	
	into the ground.
	The magnetic bearing of said true meridian is 17°36' W., which gives the magnetic declination 17°36' E.
	N. 89°45' E., on random line, bet. secs. 15 and 22.
40.00	Set temp. 1/4 sec. cor.
79.80	Intersect N. and S. line 2 lks. S. of the cor. of of secs. 14, 15, 22 and 23.
	Thence I run
	S. 89°44' W., on true line, bet. secs. 15 and 22.
	Descend over mountainous land.
8.30	Road, in hollow, draining S.S.E., ascend.
39.90	Set a mica stone, 14×10×9 ins., 9 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, dig pits, 18×18×12 ins., E. and W. of stone, 3 ft. dist., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft., high, N. of cor.
45.30	Divide, course N.N.W. and S.S.E., altitude 7300 ft.
	Descend
79.80	The cor. of secs. 15, 16, 21 and 22.
	Land, mountainous.
	Soil, rocky, 4th rate.
	No timber.
	Mountainous land, 79.80 chs.
	N. 0°02' W., bet. secs. 15 and 16.
	Descend over mountainous land.
7.00	Hollow, draining W., ascend.
26.00	Ridge, bearing E. and W., descend.
32.00	Hollow, draing W.
40.00	Set a mica stone, 13×9×5 ins., 9 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable.
41.00	Ridge, sloping W., descend.
51.50	Hollow, draining W., ascend.
66.00	Ridge, sloping W., descend.
80.00	Set a sand stone, 13×12×5 ins., 9 ins. in the ground, for cor. of secs. 9, 10, 15 and 16, marked with 4 notches on S. and 3 notches on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft.

Chains	
	high, W. of cor., pits impracticable.
	Land, mountainous.
	Soil, gravelly, 2nd. rate.
	No timber.
	Mountainous land 80.00 chs.
	N. 89° 44' E., on random line, bet. secs. 10 and 15.
40.00	Set temp. 1/4 sec. cor.
80.04	Intersect the N. and S. line 12 lks. N. of the cor. of secs. 10, 11, 14 and 15.
	Thence I run
	S. 89° 44' W., on true line, bet. secs. 10 and 15.
	Ascend over mountainous land.
12.00	Enter dense aspens.
19.00	Leave aspens.
36.00	Enter aspen brush.
40.02	Leave aspen brush.
	Set a quartz stone, 18 x 7 x 4 ins., 12 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor., pits impracticable.
43.00	Ridge, sloping N. N. W., altitude 7800 ft.
48.00	Descend.
56.00	Open hollow, draining N. W.
80.04	The cor. of secs. 9, 10, 15 and 16.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd. rate.
	Timber, aspens, in patches.
	Mountainous land 80.04 chs.
	N. 0° 02' W., bet. secs. 9 and 10.
	Descend over mountainous land.
8.50	Gulch, draining N. W.
19.50	Abrupt brow of spur.
20.00	Canyon, draining W., altitude, by aneroid 6660 ft.
	Ascend.
34.00	Ridge, sloping S. W.
40.00	Set a quartz stone, 15 x 7 x 6 ins., 10 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.

Chains	
41.00	Ridge, sloping W., descend.
51.50	Hollow, draining W., ascend.
66.00	Ridge, bears N.W., descend.
73.00	Hollow, draining W.
75.50	Point of ridge.
78.50	Canyon, draining W., altitude 7,980 ft., ascend.
80.00	Set a mica stone, 15×9×4 ins., 10 ins. in the ground, for cor. of secs. 3, 4, 9 and 10, marked with 5 notches on S. and 3 notches on E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
	Land, mountainous.
	Soil, gravelly and rocky, 2nd. and 3rd. rate.
	No timber.
	Mountainous land 80.00 chs.
	N. 89° 49' E., on random line, bet. secs. 3 and 10.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect the N. and S. line 23 lks. S. of the cor. of secs. 2, 3, 10 and 11.
	Thence S. run
	S. 89° 39' W., on true line, bet. secs. 3 and 10.
	Ascend over mountainous land.
12.00	Open hollow, draining N.E.
40.00	Set a quartz stone, 16×6×6 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor., pits impracticable.
61.00	Divide, bears N. and S., descend.
75.00	Hollow, draining S.W.
80.00	The cor. of secs. 3, 4, 9 and 10.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd. and 4th. rate.
	Timber, aspens, in patches.
	Mountainous land 80.00 chs.
	N. 0° 02' W., on random line, bet. secs. 3 and 4.
40.00	Set temporary ¼ sec. cor.
82.90	Intersect the N. bdy. of the Tp. 85 lks. W. of the cor. of secs. 33 and 34, in Tp. 14 N., R. 16 W., which is a stone firmly set, marked and witnessed

Chains	
	as described by the surveyor general.
	Set a quartz stone, 15x7x5 ins., 10 ins. in the ground, for closing cor. of secs. 3 and 4, marked c.c. on S., with 3 grooves on W. and E. faces, and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor.; pits impracticable.
	Thence I run
	S. 0° 02' E., on true line, bet. secs. 3 and 4.
	Over mountainous land
0.50	Spring bears S. 35° W., descend
7.40	Canyon, draining W.S.W., ascend.
27.50	Spring bears N. 81° W.
42.90	Set a quartz stone, 15x10x10 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
51.30	Ridge, sloping W.S.W., altitude 7500 ft., descend.
82.90	The cor. of secs. 3, 4, 9 and 10.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.
	No timber.
	Mountainous land 82.90 chs.
	September 10, 1903.
	The northern sky is cloudy, and Polaris can not be observed.
	September 11.
	From the standard cor. of secs. 32 and 33, on S. bdy. of the Tp., which is a stone, firmly set, marked and witnessed as described by the surveyor general,
	I run
	N. 0° 03' W., bet. secs. 32 and 33.
	Descend over mountainous land.
1.70	Hollow, draining N.W., altitude 7050 ft., ascend.
8.50	Ridge, sloping N.W., descend.
25.50	Hollow, draining N.W., ascend.
40.00	Set a lime stone, 18x10x6 ins., on bed rock, in mound of stone, for 1/4 sec. cor.; marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
41.00	Ridge, sloping N.W.
48.50	Descend abruptly.
50.00	Spring bears S. 73° E., 15.00 chs. dist.
60.50	Hollow, draining N.W.

Chains	
67.00	Ridge, sloping N.W.
73.00	Descend more abruptly.
80.00	Set a quartz stone, 14×7×6 ins., 9 ins in the ground, for cor. of secs. 28, 29, 32 and 33, marked with 1 notch on S. and 4 notches on E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
	Land, mountainous.
	Soil, gravelly, 3rd. rate.
	Timber, cedars, in patches.
	Mountainous land 80.00 chs.
	N. 89° 45' E., on random line, bet. secs. 28 and 33.
40.00	Set temp. ¼ sec. cor.
80.22	Intersect the N. and S. line 7 lks. N. of the cor. of secs. 27, 28, 33 and 34.
	Thence I run
	S. 89° 48' W., on true line, bet. secs. 28 and 33.
	Descending over mountainous land.
40.18	Set a quartz stone, 16×9×9 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.; pits impracticable.
61.00	Enter cedars.
68.50	Hollow, draining S., ascend.
73.00	Cedar ridge, sloping S.E.
77.50	Road, in hollow, draining N.W., altitude 6650 ft.
	Ascend.
80.22	The cor. of secs. 28, 29, 32 and 33.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd. rate.
	Timber, cedars.
	Mountainous land 80.22 chs.
	N. 0° 03' W. bet. secs. 28 and 29. over mountainous land.
1.75	Road, in hollow, draining W. N.W., ascend.
15.00	Ridge, bears S.E. & N.W., descend.
32.50	Hollow, draining N.W., ascend.
40.00	Set a sand stone, 14×8×7 ins., 9 ins in the ground, for ¼ sec. cor., marked ¼ on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of

Chains	
	cor.; pits impracticable
48.00	Hollow, draining N.W.
62.00	Hollow, draining N.W.
75.20	Hollow, draining W.N.W., ascend.
80.00	Set a quartz stone, 17×7×6 ins., 11 ins. in the ground, for cor. of secs. 20, 21, 28 and 29, marked with 2 notches on S. and 4 notches on E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
	Land, mountainous.
	Soil, gravelly, 3rd. rate.
	Timber, cedars, scattered and in patches.
	Mountainous land 80.00 chs.
	N. 89°48' E., on random line, bet. secs. 21 and 28.
40.00	Set temp. 1/4 sec. cor.
79.83	Intersect the N. and S. line 12 lks. S. of the cor. of secs. 21, 22, 27 and 28. Thence true
	S. 89°43' W., on true line, bet. secs. 21 and 28.
	Over mountainous lands.
4.50	Road, course W.N.W., descend.
5.50	Canyon, draining W.N.W., ascend.
20.00	Ridge, bears W.N.W. and S.E.
27.50	Hollow drains W.N.W.
39.91½	Set a sand stone, 26×10×4 ins., 19 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
64.00	Ridge, sloping N.W., descend.
79.83	The cor. of secs. 20, 21, 28 and 29.
	Land, mountainous.
	Soil, gravelly, 2nd. rate.
	Timber, cedars.
	Mountainous land 79.83 chs.
	N. 0°03' W., bet. secs. 20 and 21. Over mountainous land.
0.50	Enter dense cedars.
20.50	Hollow, draining W.N.W., altitude 6200 ft.
30.00	Ridge, sloping N.W., cedars thin out.
34.50	Hollow, draining N.W.; ascend.
40.00	Set a quartz stone, 17×9×6 ins., 11 ins. in the

Chains	
	ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
42.40	Road, course N.W. and S.E., elevation 6320 ft.
47.00	Head of hollow, draining N.W.
69.00	Descend.
75.50	Road, in hollow draining S.W., elevation 6215 ft.; ascend.
80.00	Set a quartz stone, 17x7x6 ins., 11 ins. in the ground, for cor. of secs. 16, 17, 20 and 21, marked with 3 notches on S. and 4 notches on E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
	Land, mountainous.
	Soil, coarse gravelly, 3rd rate.
	Timber, cedars.
	Mountainous land 80.00 chs.
	At this cor., at 8h 9m 7 p.m., t.m.t., I observe Polaris at E. long. in accordance with instructions in the Manual, and mark the point in the line thus determined by a tack driven in a wooden peg set in the ground, 5 chs. N. of my station.
	September 11, 1903.
	September 12: At 7h 30m a.m., I lay off the azimuth of Polaris 1°37'.4 to the west, and mark the meridian thus determined by a cross on a stone firmly set in the ground, west of the point established last night.
	Mean declination 17° 36' E.
	N. 89° 43' E., on random line, bet. secs. 16 and 21.
40.00	Set temp. 1/4 sec. cor.
79.90	Intersect N. and S. line 5 chs. N. of the cor. of secs. 15, 16, 21 and 22.
	Thence I run
	S. 89° 45' W., on true line, bet. secs. 16 and 21.
	Over mountainous land.
39.95	Set a quartz stone, 15x9x4 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, dig pits, 18x18x12 ins., E. and W. of stone, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
53.00	Ridge, sloping N.W., descend.
70.50	Hollow, draining N.W., ascend.
79.90	The cor. of secs. 16, 17, 20 and 21.
	Land, mountainous.
	Soil, gravelly, 3rd rate.
	Timber, cedars.
	Mountainous land 79.90 chs.

Chains	
	N. 0° 03' W., bet. secs. 16 and 17.
	Descend over mountainous land.
8.80	Hollow, draining N. W., ascend.
13.50	Ridge, sloping N. W., descend.
22.10	Hollow, draining S. W., altitude 6390 ft., ascend.
27.00	Ridge, sloping W. N. W.
32.50	Hollow, draining W., ascend.
39.00	Ridge, sloping W., descend.
40.00	Set a quartz stone, 17×6×5 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, dig pits, 18×18×12 ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor. Elevation, by aneroid, 6510 ft.
48.00	Hollow, draining W. S. W.
52.25	Small ridge, sloping W.
54.50	Small hollow, draining W.
56.00	Ridge, sloping W.
70.50	Hollow, draining W. S. W.
80.00	Set a quartz stone, 16×8×4 ins., 11 ins. in the ground, for cor. of secs. 8, 9, 16 and 17, marked with 4 notches on S. and E. edges, dig pits, 18×18×12 ins., in each sec. 5 1/2 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, mountainous.
	Soil, gravelly, 3rd rate.
	Timber, cedars in patches.
	Mountainous land 80.00 chs.
	N. 89° 45' E., on random line, bet. secs. 9 and 16.
40.00	Set temp. 1/4 sec. cor.
79.78	Intersect N. and S. line 4 chs. N. of the cor. of secs. 9, 10, 15 and 16.
	Thence S. run
	S. 89° 47' W., on true line, bet. secs. 9 and 16.
	Over mountainous land.
12.50	Hollow, draining N.
39.89	Set a quartz stone, 17×8×4 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor., pits impracticable. Elevation 6720 ft.
41.50	Hollow, draining S. W.
46.50	Recross hollow, draining N. W., ascend.
70.00	Ridge, bears N. W., descend.
79.78	The cor. of secs. 8, 9, 16 and 17.

Subdivision of T. 13 N., R. 16 W.

Chains	
	Land, mountainous.
	Soil, gravelly, 3rd. rate.
	No timber, dense sage brush.
	Mountainous land 79.78 chs.
	N. 0° 03' W., bet. secs. 8 and 9.
	Descend over mountainous land.
25.30	Rocky Canyon, draining W. N. W., altitude 6450 ft. Ascend
27.50	Ridge, sloping W., descend.
31.00	Hollow, draining W., ascend.
39.00	Point of ridge, sloping W. S. W.
40.00	Set a quartz stone, 13×13×4 ins., 9 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
41.00	Hollow, draining W. S. W.
70.00	Hollow, draining N. W.
78.00	Hollow, draining W.
80.00	Set a quartz stone, 15×8×7 ins., 10 ins. in the ground, for cor. of secs. 4, 5, 8 and 9, marked with 5 notches on S. and 4 notches on E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
	Land, mountainous.
	Soil, gravelly, 3rd. rate.
	No timber.
	Mountainous land 80.00 chs.
	N. 89° 47' E., on random line, bet. secs. 4 and 9.
40.00	Set temp. 1/4 sec. cor.
79.74	Intersect the cor. of secs. 3, 4, 9 and 10. Thence I run
	S. 89° 47' W., on true line, bet. secs. 4 and 9.
	Descending over mountainous land.
13.00	Ridge, sloping W. S. W.
39.87	Set a lime stone, 14×9×9 ins., 9 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor., pits impracticable.
79.74	The cor. of secs. 4, 5, 8 and 9.

Chains	
	Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.
	No timber.
	Mountainous land 79.74 chs.
	N. 0° 03' W., on random line, bet. secs. 4 and 5.
40.00	Set temp. 1/4 sec. cor.
83.66	Intersect the N. bdy. of the Tp. 3.65 chs. E. of the cor. of secs. 32 and 33, in Tp. 14 N., R. 16 W., which is a stone, firmly set, marked and witnessed as described by the surveyor general.
	Set a quartz stone, 17x9x4 ins., 11 ins. in the ground, for closing cor. of secs. 4 and 5, marked c. c. on S., with 2 grooves on W. and 4 grooves on E. face; dig pits 24x18x12 ins. crosswise on each line, E. and W., 3 ft., and S. of stone, 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, S. of cor.
	Thence I run
	S. 0° 03' E., on true line, bet. secs. 4 and 5.
	Descend over mountainous land.
6.00	Hollow, draining N. W.
31.00	Ridge, bears N. W. and S. E.
43.66	Set a quartz stone, 16x14x6 ins., 11 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
51.00	Hollow, draining N. W., ascend.
66.00	Main ridge, sloping N. W.
72.40	Hollow, draining W. S. W.
79.00	Ridge, bears W. N. W., descend.
83.66	The cor. of secs. 4, 5, 8 and 9.
	Land, mountainous.
	Soil, gravelly, 3rd rate.
	Timber, cedars.
	Mountainous land 83.66 chs.
	At the standard cor. of secs. 31 and 32, on S. bdy. of the Tp., which is a stone, firmly set, marked and witnessed as described by the survey general; I observe Polaris at E. elong. 8h 1m 8 p. m., l. m. t., and mark the azimuth

Chains	
	line by a tally pin, set in front of a lantern. September 12, 1903.
	Sep. 14, 7h 20m a.m., l.m.t., I lay off from the tally pin to the west an azimuth angle of 1°37'.4, for a true meridian, and mark the line by a stake, 15 ins. long, 1½ ins. diam., firmly driven into the ground, 5.20 chs. N. of cor.
	The magnetic bearing of said true meridian is N. 17°37' W., which gives the magnetic declination 17°37' E.
	Thence I run
	N. 0°04' W., bet. secs. 31 and 32.
	Descend on mountainous slope.
21.50	Gulch, draining N.E.
40.00	Set a sand stone, 14x9x6 ins., 9 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
49.00	Wash, draining N.E. in hollow.
80.00	Set a quartz stone, 22x6x4 ins., 16 ins. in the ground, for cor. of secs. 29, 30, 31 and 32, marked with 1 notch on S. and 5 notches on E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
	Land, mountainous.
	Soil, gravelly, 3rd. rate.
	No timber.
	Mountainous land 80.00 chs.
	N. 89°45' E., on random line, bet. secs. 29 and 32.
40.00	Set temp. 1/4 sec. cor.
80.08	Intersect the N. and S. line 5 lks. N. of the cor. of secs. 28, 29, 32 and 33.
	Thence I run
	S. 89°47' W., on true line, bet. secs. 29 and 32.
	Ascend over mountainous land.
16.00	Ridge, sloping N.W.
31.00	Hollow, draining N.W.
40.04	Set a quartz stone, 16x9x5 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a

Chains	
	mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
45.00	Hollow, draining N. W.
54.00	Ridge sloping N. W.
64.00	Point of cedar ridge, descend.
65.80	Road, in hollow, draining N. W., altitude 6410 ft.
69.00	Junction Creek, 6 lks. wide, 8 ins. deep, flows N. W., dam 6 chs. down stream
80.08	The cor. of secs. 29, 30, 31 and 32.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd. rate.
	Timber, cedars.
	Mountainous land 80.08 chs.
	S. 89° 45' W., on random line, bet. secs. 30 and 31.
40.00	Set temp. ¼ sec. cor.
85.87	Intersect the 4th Guide Meridian 16 lks. S. of the cor. of secs. 25, 30, 31 and 36, which is a stone, firmly set, marked and witnessed as described by the surveyor general.
	Thence Run
	N. 89° 52' E., on true line, bet. secs. 30 and 31.
	Descend on mountain meadow.
21.00	Leave meadow.
45.87	Set a quartz stone, 16 x 7 x 5 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.; pits impracticable.
51.40	Road, bears N. N. W. and S. S. W.
57.30	Hollow, draining N. E.
66.00	Road, course N. E. and S. W.
85.87	The cor. of secs. 29, 30, 31 and 32.
	Land, mountainous.
	Soil, gravelly, 2nd. rate.
	No timber, dense sage brush.
	Mountainous land 85.87 chs.
	N. 0° 04' W., bet. secs. 29 and 30.
	Descend over valley land, through dense undergrowth.
6.00	Road, course E. and W.
18.50	Wash, draining N. E. in hollow.
40.00	Set a sand stone, 16 x 9 x 4 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face, and raise

Chains.	
	a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
49.50	Hollow, draining E. N. E.
70.00	Junction Creek, 8 lks. wide, 8 ins. deep, flows N.N.W. in hollow.
75.25	Road, course N. N. W.
80.00	Set a quartz stone, 14×11×4 ins., 9 ins. in the ground, for cor. of secs. 19, 20, 29 and 30, marked with 2 notches on S. and 5 notches on E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
	Land, rolling benches.
	Soil, gravelly, 2nd. rate.
	No timber.
	Dense undergrowth 80.00 chs.
	N. 89° 47' E., on random line, bet. secs. 20 and 29.
40.00	Set temp. ¼ sec. cor.
79.83	Intersect the N. and S. line 19 lks. S. of the cor. of secs. 20, 21, 28 and 29.
	Thence I run
	S. 89° 39' W. on true line, bet. secs. 20 and 29.
	Descend over mountainous land.
3.75	Road, course S. W. and N. E.
4.50	Gulch, draining S., ascend among cedars.
28.50	Road, in hollow, draining N.W.
39.91½	Set a quartz stone, 14×10×4 ins., 9 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
44.70	Ridge, sloping N. W.
75.00	Hollow, draining N. W.
79.83	The cor. of secs. 19, 20, 29 and 30.
	Land, mountainous.
	Soil, gravelly, 3rd. rate.
	Timber, cedars.
	Mountainous land 79.83 chs.
	S. 89° 52' W., on random line, bet. secs. 19 and 30.
40.00	Set temp. ¼ sec. cor.
85.82	Intersect the 4th Guide Meridian 19 lks. S. of the cor. of secs. 19, 24, 25 and 30, which is a stone, firmly set, marked and witnessed

Chains	
	as described by the surveyor general.
	Thence I run
	East, on true line, bet. secs. 19 and 30.
27.00	Hollow, draining N. E.
45.82	Set a quartz stone, 14×6×6 ins., 9 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, dig pits, 18×18×12 ins., E. and W. of stone, 3 ft. dist., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.; altitude 6240 ft.
81.70	Junction Creek, 8 lks. wide, 8 ins. deep, flows in hollow N. N. W., altitude, by aneroid 6010 ft.
82.80	Road, course N. N. W. and S. S. E.
85.82	The cor. of secs. 19, 20, 29 and 30.
	Land, rolling benches.
	Soil, gravelly, 2nd. rate.
	No timber.
	Dense undergrowth 85.82 chs.
	N. 0° 04' W., bet. secs. 19 and 20.
	Ascend over rolling benches, through dense undergrowth
11.00	Enter cedars.
28.00	Descend.
37.25	Road, course E. and W.
40.00	Set a sand stone, 16×8×6 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable.
44.90	Road, course N. W. and S. E., in hollow.
80.00	South edge of hollow, draining N. W.
	Set a quartz stone, 17×8×4 ins., 11 ins. in the ground, for cor. of secs. 17, 18, 19 and 20, marked with 3 notches on S. and 5 notches on E. edge, dig pits, 18×18×12 ins., in each sec., 5 1/2 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, mountainous.
	Soil, gravelly and sandy, 2nd. rate.
	Timber, cedars.
	Dense undergrowth 80.00 chs.
	September 14, 1903.
	I begin observation on Polaris, but fail because of clouds.

Subdivision of T. 13 N., R. 16 W.

Chains	September 15.
	N. 89° 39' E., on random line, bet. secs. 17 and 20.
40.00	Set temp. 1/4 sec. cor.
80.00	Intersect the N. and S. line 18 lks. N. of the cor. of secs. 16, 17, 20 and 21.
	Thence run
	S. 89° 47' W., on true line, bet. secs. 17 and 20.
	Descend steeply over mountainous land.
1.50	Enter cedars.
29.00	Hollow, draining N. W., altitude 5980 ft., ascend.
40.00	Set a quartz stone, 16 x 10 x 6 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.; pits impracticable.
58.25	Road, on ridge, course N. W., altitude 6100 ft.
	Descend through cedars.
79.00	Wash, draining N. W. in hollow
80.00	The cor. of secs. 17, 18, 19 and 20.
	Land, mountainous.
	Soil, gravelly, 2nd. rate.
	Timber, cedars, largely cut out.
	Mountainous land, 80.00 chs.

	West, on random line, bet. secs. 18 and 19.
40.00	Set temp. 1/4 sec. cor.
85.69	Intersect the 4th. Guide Meridian 32 lks. N. of the cor. of secs. 13, 18, 19 and 24, which is a stone, firmly set, marked and witnessed as described by the surveyor general.
	Thence run
	N. 89° 47' E., on true line, bet. secs. 18 and 19.
	Descend through dense undergrowth
24.70	Hollow, draining E. N. E.
45.69	Set a quartz stone, 22 x 8 x 6 ins., 16 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor., pits impracticable.
	House of ~~John Barry~~ bears S. 45° E., 25 chs. dist.; coal 5 chs. E. of cabin, W. of creek.
56.70	Wash, draining N. E.
63.70	Junction Creek, 8 lks. wide, 6 ins. deep, flows N. N. W., altitude 5800 ft.

Chains	
64.10	Road, course N.N.W.
72.70	Ascend among cedars.
77.50	Ridge, sloping N.W.
85.69	The cor. of secs. 17, 18, 19 and 20.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd. rate.
	Timber, cedars.
	Dense undergrowth 85.69 chs.
	N. 0° 04' W., bet. secs. 17 and 18.
	Over mountainous land, through dense undergrowth.
1.75	Wash, in hollow, draining N.W.
11.00	Ascend among cedars.
18.00	Ridge, bearing N.W., altitude 5950 ft., descend.
25.00	Leave cedars.
30.07	Road, in hollow, draining N.W.
33.00	Wood road, course N.E., ascend.
40.00	Set a quartz stone, 15 x 7 x 6 ins., 10 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable.
54.50	Ridge, bears W.N.W.
57.50	Hollow, draining W.
62.00	Ridge, bears W.N.W., descend.
70.50	Hollow, draining W.N.W., ascend.
76.50	Ridge, course W.N.W., descend.
80.00	Set a quartz stone, 17 x 10 x 5 ins., 11 ins. in the ground, for cor. of secs. 7, 8, 17 and 18, marked with 4 notches on S. and 5 notches on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
	Land, mountainous.
	Soil, gravelly, 3rd. rate.
	Timber, cedars.
	Dense undergrowth 80.00 chs.
	N. 89° 47' E., on random line, bet. secs. 8 and 17.
40.00	Set temp. 1/4 sec. cor.
80.00	Intersect the N. and S. line 7 lks. S. of the cor. of secs. 8, 9, 16 and 17.
	Thence I run
	S. 89° 44' W., on true line, bet. secs. 8 and 17.

Chains	
	Descend on southwestern slope of ridge.
40.00	Set a quartz stone, 17×8×4 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, dig pits, 18×18×12 ins., E. and W. of stone, 3 ft. dist., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
62.00	Hollow, draining N. W.
80.00	The cor. of secs. 7, 8, 17 and 18.
	Land, mountainous.
	Soil, gravelly, 3rd. rate.
	Timber, cedars.
	Mountainous land, 80.00 chs.
	S. 89° 47' W. on random line, bet. secs. 7 and 18.
40.00	Set temp. 1/4 sec. cor.
85.57	Intersect the 4th Guide Meridian 32 lks. S. of cor. of secs. 7, 12, 13 and 18, which is a stone, firmly set, marked and witnessed as described by the surveyor general.
	Thence I run
	East, on true line, bet. secs. 7 and 18.
	Ascend gradually over meadow and alfalfa field. Elevation 5400 ft.
12.00	Irrigation ditch, 5 lks. wide, 2 ft. deep, drains N. W.
18.00	Irrigation ditch, 5 lks. wide, 16 ins. deep, drains N. N. W.
28.67	Fence, course S. 1/2° E., leave alfalfa field, enter dense sage brush.
32.67	Road, to Oakley, Idaho, course N. N. W.
45.57	Set a quartz stone, 16×10×4 ins., 9 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, dig pits, 18×18×12 ins., E. and W. of stone, 3 ft. dist., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
50.50	Ascend on mountainous slope.
63.50	Ridge, course N. W.
72.50	Hollow, draining N. W.
82.00	Ridge, bears N. W., altitude 5950 ft.
85.57	The cor. of secs. 7, 8, 17 and 18.
	Land, rolling bench and bottom.
	Soil, gravelly, 2nd. and 3rd. rate.
	No timber.

Subdivision of Tp. 13 N. R. 16 W.

Chains Dense underground [illegible] chs.

September 15, 1903.

The sky is overcast, and Polaris can not be observed.

A 0°02' W., bet. secs. 7 and 8.

Descend.

[illegible] Hollow, draining A. W., ascend.

[illegible] Ridge, sloping A. W.

[illegible] Hollow, draining A. W.

[illegible] Ridge, bears A. W.

[illegible] Hollow, draining A. W.

[illegible] Set a gravity stone, [illegible] ins., [illegible] ins. in the ground for [illegible] sec. cor., marked [illegible] on W. face, dig pits, [illegible] ins., N. and S. of stone, [illegible] ft. dist., and raise a mound of earth, [illegible] ft. base, [illegible] ft. high, W. of cor.

[illegible] Descend.

[illegible] Hollow, draining A. W., ascend steeply.

[illegible] Point of ridge, sloping A. W., descend.

[illegible] Set a gravity stone, [illegible] ins., [illegible] ins. in the ground for cor. of secs. 5, 6, 7 and 8, marked with 5 notches on S. and E. edge, and raise a mound of stone, [illegible] ft. base, [illegible] ft. high, W. of cor., pits impracticable.

Land, mountainous.

Soil, gravelly, 3rd. rate.

No timber.

Mountainous land [illegible] chs.

A [illegible] E. on random line, bet. secs. 5 and 8.

[illegible] Set temp. [illegible] sec. cor.

[illegible] Intersect the N. and S. line [illegible] the S. of the cor. of secs. 4, 5, 8 and 9.

Thence Scan.

[illegible] W. on true line, bet. secs. 5 and 8.

[illegible] Wash, in hollow, draining A. W., altitude [illegible] ft.

[illegible] Ridge, sloping A. W.

[illegible] Small hollow, draining A. A. W.

[illegible] Set a gravity stone, [illegible] ins., [illegible] ins. in the ground for [illegible] sec. cor., marked [illegible] on N. face, dig pits, [illegible] ins., E. and W. of stone, [illegible] ft. dist., and raise a mound of earth, [illegible] ft. base,

Chains	
	1½ ft. high, N. of cor.
60.00	Top of ridge, course N.W., descend.
69.80	Hollow, draining N.W., ascend.
80.00	The cor. of secs. 5, 6, 7 and 8.
	Land, mountainous.
	Soil, gravelly, 3rd. rate.
	No timber, dense sage brush.
	Mountainous land 80.00 chs.
	West, on random line, bet. secs. 6 and 7.
40.00	Set temp. ¼ sec. cor.
85.45	Intersect the 4th Guide Meridian West at the cor. of secs. 1, 6, 7 and 12, which is a stone, firmly set, marked and witnessed as described by the surveyor general.
	Thence Run
	East, on true line, bet. secs. 6 and 7.
2.35	Irrigation ditch, draining N.
5.45	Road, to Oakley, Idaho, course N.N.W.
19.50	Ascend on mountainous slope.
25.50	Neck of hollow, draining S.W.
45.45	Set a sand stone, 16×12×3 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor., pits impracticable.
78.50	Hollow, draining N.W.
84.50	Ridge, sloping N.W.
85.45	The cor. of secs. 5, 6, 7 and 8.
65.95 / 19.50	Land, mountainous and rolling benches.
	Soil, coarse gravelly, 3rd. rate.
	No timber.
	Mountainous land 65.95 chs.
	N. 0°04' W., on random line, bet. secs. 5 and 6.
40.00	Set temp. ¼ sec. cor.
83.48	Intersect the N. bdy. of the Tp. 5.34 chs. E. of the cor. of secs. 31 and 32, in Tp. 14 N., R. 16 W., which is a stone, firmly set, marked and witnessed as described by the surveyor general. Set a sand stone, 16×8×6 ins., 11 ins. in the ground, for closing cor. of secs. 5 and 6.

Chains	
	marked c.c. on S. with 1 groove on W. and 5 grooves on E. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor.; pits impracticable. Thence I run
	S. 0°04' E., on true line, bet. secs. 5 and 6
	Over mountainous land.
8.80	Ridge, bears N. W., enter dense cedars.
27.70	Hollow, draining W.
34.50	Ridge, sloping W. N. W.
43.48	Set a quartz stone, 15×10×8 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
51.65	Hollow, draining N. W.
72.50	Ridge, sloping N. W., leave cedars.
79.00	Hollow, draining W. N. W.
83.48	The cor. of secs. 5, 6, 7 and 8.
	Land, mountainous.
	Soil, gravelly, 3rd. rate.
	Timber, cedars.
	Mountainous land 83.48 chs.
	September 16, 1903.
	Nephi P. Anderson,
	U. S. Deputy Surveyor.

Subdivision of Tp. 13 N., R. 16 W.

Boundaries of Tp. 13 N., R. 16 W.
Latitudes, departures and closing errors.

Line designated	True bearing	Distance	Latitudes		Departures	
		Chs.	N.	S.	E.	W.
			Chs.	Chs.	Chs.	Chs.
Third Stand. Parallel N.	S. 89°45' W.	486.00	....	2.12	....	486.00
Fourth Guide Merid. W.	North	483.34	483.34	....	....	....
North boundary	East	486.19	....	....	486.19	....
East boundary	S. 0°08' E.	401.46	....	401.46	0.94	....
" "	S. 0°57' W.	80.00	....	79.99	....	1.83
Convergency			....	....	0.65	....
			483.34	483.57	487.78	487.83
				483.34	487.33	
Errors: In latitude				0.23		
In departure					0.45	

General Description

This township is mountainous but not rough. It is well supplied with water for stock, and furnishes good grazing throughout. Junction Creek in the south western part runs about 4 second feet, and dams for storing it for irrigation are in construction by John Lind.

Timber is found in various parts; pines in the north east, cedars in the north west and south western part.

The west half of section 27 is mineral, with silver prospect, and returned as mineral land.

There are two settlers within the survey, namly: David G. Talent, on Sec. 26, with improvements consisting of dwelling house and outhouses, valued at $300, and John Barry on Sec. 19, with a cabin and corrall, valued at $200. John Lind's home is in Sec. 12, Tp. 13 N., R. 17 W., and consequently west of this survey, but he has valuable improvements within this township, cosisting of irrigation dams and ditches, fences and cleared and cultivated land, valued at $1000.

Nephi P. Anderson,
U. S. Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Nephi P. Anderson, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Subdivisional lines of Tp. 13 N., R. 16 W. of the Salt Lake Base and Meridian, Utah showing the respective capacities in which they acted:

Lorenzo Anderson, *Chainman.*
William N. Lee, *Chainman.*
John S. Christensen, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
Lewis O. Johnson, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Nephi P. Anderson, United States Deputy Surveyor, in surveying all those parts or portions of the Subdivisional lines of Tp. 13 N., R. 16 W., of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah

Lorenzo N. Anderson, *Chainman.*
William N. Lee, *Chainman.*
John S. Christensen, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
Lewis O Johnson, *Flagman.*

Subscribed and sworn to before me this 22nd day of March, 1905.

Nels Jenson,
Notary Public.

SEAL

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Nephi P. Anderson, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the 20th day of September, 1902, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Subdivisional lines of Tps. 13 & R. 16 W.,

of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Nephi P. Anderson
United States Deputy Surveyor.

Subscribed by said Nephi P. Anderson, and sworn to before me this 22nd day of March, 1905.

W. J. Valentine
Clerk of Dist. Court

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 14, 1905.

The foregoing field notes of the survey of the subdivisional lines of Township 13 South Range 16 West of the Salt Lake Base & Meridian, Utah

executed by Nephi P. Anderson under his contract No. 257, dated September 20th 1902, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward H. Anderson
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in ....., has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-334

FILED
MAY 9 1905

FIELD NOTES

OF THE SURVEY OF THE

Partial Retracement of the South Boundary of Twp. 14 N., R. 16 W.

index on 13 N. 16 W.

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Nephi P. Anderson, United States Deputy Surveyor,

Under his Contract No. 257, dated September 20th, 1902.

~~Survey~~ Retracement commenced September 18, 1903

~~Survey~~ Retracement completed September 19, 1903

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Retr. 2-01-69.

NAMES AND DUTIES OF ASSISTANTS.

Lorenzo W. Anderson, Chainman.

William N. Lee, Chainman.

John S. Christensen, Moundman.

Lewis O. Johnson, Flagman.

For preliminary affidavits see book A. Tp. 13 N R 16 W

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Volume

#

R0334

BOOK A-334

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Meanders Page

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PRELIMINARY OATHS OF ASSISTANTS.

WE, ... and .....
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level th
chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; th
we will report the true distances to all notable objects, and the true lengths of all lines that we assist
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey

.....

..... *Chainma*

..... *Chainma*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

WE, ... and .....
do solemnly swear that we will well and truly perform the duties of moundmen in the establishme
of corners, according to the instructions given us, to the best of our skill and ability, in the survey

.....

..... *Moundm*

..... *Moundm*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

WE, ... and .....
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corn
and other duties, according to instructions given us, to the best of our skill and ability, in the survey

.....

..... *Axm*

..... *Axm*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

I, ..., do solemnly swear that I will well and tr
perform the duties of flagman according to instructions given me, to the best of my skill and ability, in
survey of .....

..... *Flagm*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

6—151

Retracement of the S. Bdy. of Tp. 14 N., R. 16 W.

Chains	
	Survey commenced September 18, 1903, and executed with a W. & L. E. Gurley engineer's transit, heretofore described.
	At the cor. of Tps. 13 and 14 N., Rs. 16 and 17 W., which is a stone, firmly set, marked and witnessed as described by the surveyor general, at $7^h 42^m$ 2 p. m., l. m. t., I observe Polaris at eastern elongation, in accordance with instructions in the Manual, and mark the line thus determined, by a tack driven in a wooden peg set in the ground, five chains north of my station. September 18, 1903.
	September 19, 1903: At $7^h 15^m$ a. m., I lay off the azimuth of Polaris, 1°37'.4, to the west and mark the true meridian thus determined, by cutting a cross on a stone firmly set in the ground, west of the point established last night.
	The magnetic bearing of said true meridian is N. 17° 40' W., which gives the magnetic declination, 17°40' E.
	Thence I run
	East along South bdy. of sec. 31.
	Over mountainous land through dense cedars.
40.00	Intersect the old 1/4 sec. cor., which is a quartz stone, 6×8×7 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.
80.00	Intersect the cor. of secs. 5, 6, 31 and 32, which is a sand stone, 6×12×4 ins. above ground, firmly set, marked and witnessed as described by the surveyor general. I destroy all marks thereon pertaining to secs. 5 and 6.
	Land, high bench to mountainous.
	Soil, sandy and gravelly, 2 nd. rate.
	Timber, cedars.
	Dense undergrowth and cedars 80.00 chs.
	East along south bdy. of sec. 32.
5.34	Intersect the closing cor. of secs. 5 and 6, Tp. 13 N., R. 16 W., hereinbefore described
40.94	Intersect the old 1/4 sec. cor., which is a quartz stone, 7×14×2 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.

Retracement of the S. Bdy. of Tp. 14 N., R. 16 E.

Chains	
81.69	Intersect the old cor. of secs. 4, 5, 32 and 33, which is a quartz stone, 6x10x4 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.
	I destroy all marks thereon pertaining to secs. 4 and 5.
	Land, rolling bench to mountainous.
	Soil, sandy, rich, 2nd rate.
	Timber, cedars.
	Dense cedars and undergrowth 81.69 chs.
	September 19, 1903.
	Nephi P. Anderson.
	U. S. Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by N. P. Anderson, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Resurvey of the east boundary of Tps. 13 N., R. 16 W., and retracement of fractional S. Bdy. T. 14 N. R. 16 W. of the Salt Lake Base and Meridian, Utah showing the respective capacities in which they acted:

Lorenzo W. Anderson, *Chainman.*
William N. Lee, *Chainman.*
John S. Christensen, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
Lewis O. Johnson, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Nephi P. Anderson, United States Deputy Surveyor, in surveying all those parts or portions of the Resurvey of the east boundary of Tps. 13 N., R. 16 W., and retracement of fractional S. Bdy. T. 14 N. R. 16 W. of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been resurveyed and retraced by him and under his direction; and that said survey and retracement have been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for the State of Utah.

Lorenzo W. Anderson, *Chainman.*
William N. Lee, *Chainman.*
John S. Christensen *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
Lewis O. Johnson, *Flagman.*

Subscribed and sworn to before me this 22nd day of March, 1905.

Nels Jensen,
Notary Public.

SEAL

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Nephi P. Anderson, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for the State of Utah, bearing date of the 20th day of September, 1902, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for the State of Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of Resurvey of the east boundary of Twp. 13 N. R. 16 W., and retracement of fractional S. Bdy. T. 6½ N. R. 16 W.

of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes (in books A and C) as having been surveyed and retraced by me, and under my direction; and I do further solemnly swear that all the corners of said survey and retracement have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for the State of Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey and retracement; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Nephi P. Anderson
United States Deputy Surveyor.

Subscribed by said Nephi P. Anderson, and sworn to before me this 22nd day of March, 1905.

N. J. Valentine
Clerk of Dist. Court

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 14, 1905.

The foregoing field notes of the survey and retracement of the Fractional East Bdy. of Township 6½ North Range 16 West of the Salt Lake Base and Meridian, Utah

executed by Nephi P. Anderson under his contract No. 257, dated September 20, 1902, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the retracements surveys they describe, are hereby approved.

Edward H. Anderson
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in ....., has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-334

FILED
SEP 13 1905

FIELD NOTES

OF THE RE SURVEY OF THE

Subdivisions of Township 27 South.
Range 4. West.

Of the Salt Lake Base and Meridian,

Utah

AS SURVEYED BY

John T. Breckon, United States Deputy Surveyor,

under his ~~Contract No.~~ Special Instructions, dated July 10th, 1905

Survey commenced August 11th, 1905

Survey completed August 12th, 1905

6—111

NAMES AND DUTIES OF ASSISTANTS.

Lawrence Lamel Chainman

LeRoy Breckon Chainman

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BOOK A-334

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Lawrence Hamel and LeRoy Brickon

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will [illegible] chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the [illegible] we will report the true distances to all notable objects, and the true lengths of all lines that we [illegible] measuring, to the best of our skill and ability, and in accordance with instructions given us, in the [illegible] Subdivisions of T. 27 S. R. 4 W. Salt Lake Base & [illegible] Mat

Lawrence Hamel, Chai[illegible]

LeRoy Brickon, Chai[illegible]

Subscribed and sworn to before me this 11th day of August, 1905

William E. [illegible]
Notary Pub[illegible]

SEAL

WE, ... and .....

do solemnly swear that we will well and truly perform the duties of moundmen in the establishme[illegible] of corners, according to the instructions given us, to the best of our skill and ability, in the survey [illegible]

..... Moundma[illegible]

..... Moundma[illegible]

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

WE, ... and .....

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corne[illegible] and other duties, according to instructions given us, to the best of our skill and ability, in the survey [illegible]

..... Axma[illegible]

..... Axma[illegible]

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

I, ..., do solemnly swear that I will well and tru[illegible] perform the duties of flagman according to instructions given me, to the best of my skill and ability, in t[illegible] survey of .....

..... Flagma[illegible]

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

6—151

Resurvey of Subdivision of T. 27 S. R. 4 W.

Chains

Surveying commenced Aug. 11th 1905. and executed with a Gurley Mountain transit with Solar attachment. The horizontal limb is provided with two double verniers placed opposite each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

I examine the adjustments of the transit and correct the level and collimation errors, then, to test the solar apparatus by comparing its indications, resulting from solar observations made during A. M. and P. M. hours, with a true meridian determined by observations on Polaris, I proceed as follows:

At the Cor. of Secs 25. 26. 35 & 36. T. 27 S. R. 4 W. which is a Quartzite stone 6 x 8 x 6 ins above ground marked and witnessed as described in the original field notes, latitude 38° 26' N. longitude 112° 14' 45" W. I set off 38° 26' N. on the lat. arc; 15° 17' N. on the decl. arc; and at 3h 30m P. M. l. m. t. determine with the solar a true meridian, and mark a point thereof, on a stone firmly set in the ground, 5 ch. N. of the Cor.

At 10h 10m P. M. l. m. t. I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a plug driven in the ground, 5 chs. N. of my station.

August 11th 1905.

August 12th At 7h 5m a. m. l. m. t. I lay off the azimuth of Polaris 1° 32' to the west, and mark the true meridian thus determined by cutting a small groove in the stone set Aug. 11th on which the true meridian falls 0.3 ins. east of the mark determined by the solar.

At 8h 55m a. m. l. m. t. I set off 38° 26' N

Chains	
	on the lat. arc; 15°04' N. on the decl. arc; and mark a point in the true meridian determined with the solar, by a cross on the stone already set 5 ch. N. of my station; this mark falls 0.2 ins. east of the true meridian established by the Polaris observation.
	The solar apparatus, by P. M. and A. M. observations, defines positions for true meridians, respectively about 0'16" west, and 0'10" east of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.
	The magnetic bearing of the true meridian at 9h 10m A.M. is N. 16°12' W; the angle thus determined, gives the mean Mag. decl. 16°12' E.
	From the section corner already described, I run,
	West between Secs 26 & 35.
	Enter scattering cedars, gradual descent.
0.80	Dry wash, 1 ch. wide, 15 ft. deep, course N.E. gradual ascent over bench.
20.20	Wire fence, bears N & S.
30.50	Descend steep hillside, leave cedars. Enter dense undergrowth.
40.06	+ The 1/4 Sec. Cor. between Secs 26 & 35, on line, which is a Quartzite stone 5×10×6 ins. above ground firmly set, and marked 1/4 on N. face, with mound of stone 2 ft. base 1½ ft. high N. of Cor. from which Cor. No 3. Lot No 48 B. Holderman Millsite bears S67°51' W. 1.44 chs. 95.H
	Cor. No 4. Lot No 53 B. Wedge Millsite bears N68°23' E. 5.26 chs. 347.2
	Cor. No 12 Lot No 48 B. Apex Millsite bears N70°24' W. 2.24 chs. 147.8
	Cor. No 8. Lot No 48 B. Angel Millsite bears S60°10' W. 8.02 chs. 529.3

Resurvey of Subdivisions of T. 27. S. R. 4. W.

Cor. No. 4. Lot No. 54. B. Chambers Millsite bears S 59°.25' W. 14.62 chs. 964.9

From Cor. No. 7. Lot No. 48 B. Angel Millsite the S. W. corner of Stamp Mill 60 by 160 ft. bears N. 38°.00 E 2.55 Chs. Long sides of mill bear N 58° E & S 58° W. 1 x 3

John T. Buckow
U. S. Deputy Surveyor

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by John T. Buckson, United States Deputy Surveyor, to assist in running, measuring, and rking the lines and corners described in the foregoing field notes of the re-survey of Subdivisions T. 27 S. R. 4 W. of the Salt Lake Base & Meridian Utah, owing the respective capacities in which they acted:

Lawrence Hamel, *Chainman.*
LeRoy Buckson, *Chainman.*
, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John T. Buckson, United States Deputy Surveyor, in re-surveying all se parts or portions of the Subdivisions of T. 27 S. R. 4 W. of the Salt Lake Base & meridian, State of Utah, which are represented the foregoing field notes as having been re-surveyed by him and under his direction; and that said re-survey been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the rner monuments established, according to the instructions furnished by the United States Surveyor neral for Utah.

Lawrence Hamel, *Chainman.*
Le Roy Buckson, *Chainman.*
, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
, *Flagman.*

bscribed and sworn to before me this 12th day of August, 1905.

SEAL

William E. White
Notary Public

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, John T. Buckson, United States Deputy Surveyor, solemnly swear that, in pursuance of ~~a contract~~ special instructions received from Edward H. Anderson United States Surveyor General for Utah, bearing date the 15th day of July, 1905, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of Subdivisions of T. 2 N. R. 4 West

of the Salt Lake Base & meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

John T. Buckson
United States Deputy Surveyor.

Subscribed by said John T. Buckson, and sworn to before me this 15th day of Sept., 1905

Edward H. Anderson
U.S. Surveyor General for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, September 22, 1905

The foregoing field notes of the survey of the subdivisional lines of Township 2 South Range 4 West of the Salt Lake Base & Meridian, Utah

executed by John T. Buckson under his ~~contract No.~~ Special Instructions, dated July 15, 1905, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward H. Anderson
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in ....., has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-334

FILED
AUG 14 1905

FIELD NOTES

OF THE SURVEY OF THE

H.J.B.
M.M.L.

Subdivisions

of

Township 2 South, of Range 2 East

Of the Salt Lake Base and Meridian,

Utah

AS SURVEYED BY

Augustus D. Ferron, United States Deputy Surveyor,

Under his Contract No. 283, dated March 15, 1904

Survey commenced July 1st, 1905

Survey completed August 1st, 1905

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NAMES AND DUTIES OF ASSISTANTS.

Fred C. Ferron, Chainman
Arthur Erickson, "
Rob Ferron, Flagman
Alonzo Green, Axeman & Marksman

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BOOK A-334

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Arthur Erickson and Fred. C. Ferron do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the subdivisions of Township 2 South of Range 2 East, Salt Lake Base and Meridian Utah

Arthur Erickson, *Chainman.*

Fred C. Ferron, *Chainman.*

Subscribed and sworn to before me this 29th day of June, ~~189~~ 1905

SEAL

A. B. Ferron
Notary Public

WE, ... and .....
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

..... *Moundman.*

..... *Moundman.*

Subscribed and sworn to before me this .....
day of ....., 189

SEAL

~~WE,~~ I, Alonzo Green and .....
do solemnly swear that ~~we~~ I will well and truly perform the duties of axmen and moundman in the establishment of corners and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of the subdivisions of Township 2 South of Range 2 East Salt Lake Base and Meridian Utah

Alonzo Green *Moundman, a*, *Axman.*

..... *Axman.*

Subscribed and sworn to before me this 29th day of June, ~~189~~ 1905

SEAL

A. B. Ferron
Notary Public

I, Rob Ferron, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the subdivisions of Township 2 South of Range 2 East Salt Lake Base and Meridian Utah

Rob Ferron, *Flagman.*

Subscribed and sworn to before me this 29th day of June, ~~189~~ 1905

SEAL

A. B. Ferron
Notary Public

6—151

Chains. Survey commenced July 1st, 1905, and executed with a W. & L.E. Gurley light mountain transit, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was tested on the true meridian at Salt Lake City, found correct, and was approved by the Surveyor General of Utah, June 7, 1904.

I examine the adjustment of the transit and correct the level and collimation errors; then to test the solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

At the $\frac{1}{4}$ sec. cor. bet. secs. 13 and 18 on the east boundary of Tp. 2 S., R. 2 E., in latitude 40°38'41" N., longitude 111°40'04" W., I set off 40°39'N. on the lat. arc; and 23°08'N. on the decl. arc; and at 4 h. 5 m. p.m. l.m.t. determine with the solar a meridian, and mark the point thereof on a stone firmly set in the ground 5 chs. N. of cor.

At 12 h. 46.8 m. following midnight, by my watch which has correct local mean time, I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined on a peg driven in the ground 5 chs. N. of my station. July 1, 1905.

July 2: At 7 a.m. l.m.t. I lay off the azimuth of Polaris 1°35' to the west, and mark the meridian thus determined by cutting a small groove in the stone set July 1st, on which the meridian falls 0.3 ins. east of the

Subdivision of Tp. 2 S., R. 2 E., S.L.B.&M.

Chains.

mark determined by the solar.

At 8 h.04 m.a.m.l.m.t.I set off 40°39'N.on the lat.arc; 23°05'N.on the decl.arc; and mark the stone already set 5 chs.N.of my station; this mark falls 0.4 ins. east of the meridian established by Polaris observation.

The solar apparatus by p.m.and a.m.observations defines positions for meridians respectively about 0'16" W. and 0'21" E.of the meridian established by Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8 h. 30 m. a.m.is N.17°5'W.; the angle thus determined gives the mag.decl.17°5'E. by the needle of my instrument.

This being Sunday I keep my instrument all day on the meridian determined by Polaris observation, changing the declination every hour, and find that the image of the sun keeps well between the lines, which gives me added confidence in its efficiency to determine the true meridian.

July 2, 1905.

Complying with the special instructions of the Surveyor General, I make diligent inquiry and personal examination of the ground covered by this township to ascertain the existence of all agricultural land, but find that there is none such outside of the narrow bottom along Big Cottonwood Creek in the main Big Cottonwood Canon; and therefore commence my survey by establishing the line bet.secs.13 and 24. As it is impossible to run the line in place on account of impracticable cliffs forming the North slope of Kessler's Peak, I go to the ¼ sec.cor.bet.secs.13 and 18 on east boundary of the township, which is a dark porphyry stone 6x

Chains. 10x8 ins. above the ground marked and witnessed as described by the Surveyor general, from which I run an offset line.

From the $\frac{1}{4}$ sec.cor. already described, where I have established my meridian by Polaris observation, I retrace north bet.secs.13 and 18; at 38.32 chs.intersect the closing cor.for secs.7 and 18, T.2 S., R.3 E.; and at 40.04 chs.intersect the cor.to secs.12 and 13, which is a limestone 6x9x7 ins.above ground, marked and witnessed as described by the Surveyor General.

From same $\frac{1}{4}$ sec.cor. I also retrace south bet.secs.13 and 18; and at 39.96 chs.intersect the cor.to secs. 13 and 24, which is a limestone 6x8x7 ins.above ground marked and witnessed as described by the Surveyor General. Therefore the line bears north and south, as stated by the Surveyor General; and my chaining practically agrees with the field notes of the original survey.

From a point 24.42 chs.N.of above $\frac{1}{4}$ sec.cor.Bamberger's house bears S.42°W. 16.57 chs.dist.

From said Bamberger's house, J.Olson's house bears S. 65°E. 2.07 chs.dist.

July 2, 1905.

As the south boundary of this township is unsurveyed, I commence at the $\frac{1}{4}$ sec.cor.bet.secs.13 and 18 on the E.bdy.of the township,above described, and run

West on true line bet.secs.13 and 24

On offset 39.96 chs.north of line in place, obtaining my course by turning a right angle from the meridian established by me by Polaris observation at this point

Subdivision of Tp. 2 S., R. 2 E., S.L.B.and M.

Chains	
	as heretofore described.
40.00	The true point for $\frac{1}{4}$ sec.cor.falls in impracticable cliffs; corner not established.
	July 3d: At this point, at 12 h.4 m. p.m.l.m.t.I set off 22°59'N.on the decl.arc; and observe the sun on the meridian; the resulting lat.is 40°38'N.; which is practically the latitude of the place.
	July 3d, at 63 chs.on my line, at 3 h.4 m.p.m.l.m.t. I set off 40°39' N.on lat.arc, 22°59' N.on decl.arc, and determine the meridian with the solar, from which the line I am running bears S.89°59½' W.
80.00	To a point 39.96 chs.N.0°01'W.of point for cor.to secs. 13, 14, 23, and 24.
	July 3d, 1905.

At this point, July 5th, at 8 h. 04 m.a.m.l.m.t.I set off 40°39'N.on lat.arc; 22°50'N.on decl.arc, and determine a meridian with the solar; whence I measure south 39.96 chs.to the true point for cor.of secs.13, 14,23 and 24, where I set a quartzite stone 16x14x4 ins., 11 ins.in the ground,for cor.to secs.13,14.23 and 24, marked with 3 notches on S. and 1 notch on E. edges; and raise a mound of stone 2 ft.base, 1½ ft. high W.of cor.; pits impracticable; from which

An aspen 5 ins.dia.bears N.69°W. 38 lks.dist.
marked T 2 S R 2 E S 14 B T

An aspen 4 ins.dia.bears N.27°30'E. 40 lks.dist.
marked T 2 S R 2 E S 13 B T

An aspen 4 ins.dia.bears S.44°30'E. 31 lks.dist.
marked T 2 S R 2 E S 24 B T

Land rocky, ledgy north slope of high mountains.
Soil mostly all rock; what soil there is, is 1st rate.
Timber a few scattering pines and some small aspens.

Chains	
	Undergrowth aspen and oak.
	Mountainous land on 80.00 chs.
	July 5th, at 3 h.04 m.p.m.l.m.t., I set off 40°38'N.on lat.arc; 22°48'N.on decl.arc; and determine a meridian with the solar at the cor.of secs.13,14,23 and 24, thence I run
	N.0°01'W.bet.secs.13 and 14.
	Descend over rough, precipitous, stony ground, sloping north.
4.70	Trail to Carbonate Mine bears NE. and SW.
34.90	Bottom of Big Cottonwood Canon, about 1000 ft.below the cor.to secs.13,14,23, and 24.
	Swampy reservoir made by dam about 4 chs.W.; dense undergrowth.
36.02	Road from Salt Lake to Brighton bears E. and W.
	At this point, in order to facilitate finding the corner to secs.13,14,23, and 24, I set a witness cor.to said point, viz: a limestone 20x14x6 ins., 15 ins.in the ground, marked with a cross and W C on NE.face; 3 notches on S. and 1 notch on E.edge; raised a mound of stone 2 ft.base, 1½ ft.high W.of cor.; on N.side of road. Ascend in thick brush.
40.00	Set a limestone 14x12x6 ins., 10 ins.in the ground, for ¼ sec.cor., marked ¼ on W.face; and raised a mound of stone 3 ft.base 1½ ft.high W.of cor.; pits impracticable; from which
	A scrub oak 4 ins.dia.bears S.69°E. 56 lks.dist. marked ¼ S 13 B T.
	A scrub maple 4 ins.dia.bears S.40°W. 13 lks.dist. marked ¼ S. 14 B T
	U.S.L.M.No.4, Big Cottonwood Mining District bears S.24°40'E. 9.41 chs.
	Kessler's Peak bears S.39°20'E.
45.00	Descend into Mill A. Gulch on NW. slope. This point is

Chains.	
	about 300 ft.above bottom of main canon.
55.80	Bottom of Mill A. Gulch about 200 ft.below last point, drains southwesterly.
	Chas.Baker's cabin bears S.35°W.1.25 chs.dist.
	Ascend southeasterly slope.
67.50	East point of hill about 250 ft.above gulch; descend gently.
73.00	Shallow hollow drains easterly; ascend gently.
80.00	Set a limestone 14x8x8 ins., 9 ins.in the ground for cor.to secs.11,12,13,and 14, marked with 4 notches on S. and 1 notch on E.edge; and raised a mound of stone 3 ft.base, 1½ ft.high W.of cor.; pits impracticable.
	A pine 14 ins.dia.bears S.6°W.1.85 chs.dist., marked T 2 S R 2 E S.14.B T
	No other trees within limit.
	Land steep slopes, rocky and precipitous mountains.
	Soil mostly rocks; what there is, is 1st rate.
	Timber a few pines.
	Undergrowth dense oak, maple, and wild cherry.
	Mountainous or dense undergrowth on 80.00 chs.
	July 5, 1905.

July 6, 1905, at 8 h.04 m.a.m.l.m.t.I.set off 40°39'N. on lat.arc; 22°44½'N.on decl.arc, and determine a meridian with the solar at the cor.to secs.11,12,13, and 14. Thence I run

East on a random line bet.secs.12 and 13.

40.00	Set temp.¼ sec.cor.
	At this point July 6th, I set off 22°43'N.on the decl. arc; and at 12 h.04 m.m.l.m.t.observe the sun on the meridian; the resulting lat.is 40°39½' N., which is practically correct.
79.90	Intersect east boundary of Tp. 14 lks.N.of the cor.to secs.12 and 13, heretofore described.

Subdivision of Tp.2 S., R.2 E., S.L.B.&M.

Chains.	
	At this cor., July 6th at 3 h.0 m.p.m.l.m.t.I set off 40°39' N.on the lat.arc; and 22°42½'Non the decl.arc; and determine a meridian with the solar. Thence I run N.89°54'W.on a true line bet.secs.12 and 13,
	In dense aspen, oak, and wild cherry undergrowth and artemisia.
	Ascend steep slope to the east.
22.50	Ascend more gentle east slope.
28.00	Descend on W.slope in oak brush. This point is 1200 ft. above main canon.
39.95	Set a quartzite stone 15x10x4 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on N.face; and raised a mound of stone 3 ft.base, 1½ ft.high N.of cor. Pits impracticable; from which
	Kessler's Peak bears S.10°30'E.
42.50	Head of broad hollow drains S.into Big Cottonwood Canon.
	Ascend steep slope in heavy undergrowth.
53.70	Top of ridge spur bears N. and S. This point is 1500 ft.above main canon.
	Descend in Mill A.Gulch.
71.70	Descend ledge 100 ft.high.
73.50	Bottom of Mill A.Gulch, 1000 ft.below spur ridge.
	Ascend over rocky cliffs and ledges in rock narrows.
76.50	Leave ledges and ascend steep south slope.
79.90	The cor.to secs.11,12,13, and 14.
	Land mountainous and rocky.
	Soil 1st rate, where there is any.
	Timber a few pines.
	Undergrowth oak, maple, and wild cherry.
	Mountainous land on 79.90 chs.
	July 6, 1905.

Subdivision Tp.2 S., R. 2 E., S.L.B. and M.

Chains.

Note: As there are numerous improvements in Big Cottonwood Canon in sec.13, which could not be located in running the foregoing boundaries of this section, I conclude to run a traverse line through the canon along the wagon road, in order to locate them. And furthermore, as the section lines run over very difficult ground, making accurate chaining extremely difficult, I deem it advisable to run the same very carefully, and with extreme accuracy so as to check the work so far done. The turning points of my traverse were marked with 4" wire nails, driven into the ground. The courses were obtained by solar observation in the first instance, then by back and foresights checked repeatedly by additional solar meridians as recorded in the field notes following. The readings of the courses were all checked by Fred C.Ferron and Arthur Ericson, two members of the Utah University engineering class, who acted as my chainmen.

I commence at a point on the S.sideof the Salt Lake and Brighton road, marked with a wooden peg 15.58 chs.S. of the cor.to secs.12 and 13 on the E.bdy.of this Tp. July 7, 1905, at 8 h.05 m.a.m.l.m.t.I set off 40°39'N. on lat.arc; 22°38'N.on decl.arc; and determine a meridian with the solar at said point 15.58 chs.S.of the cor.to secs.12 and 13.

Thence I run

	Course	N. chs.	S. chs.	W. chs.
			15.58	amount of southing from cor.to secs.12 and 13.
1.29	S.89°44'W.		0.00	1.29
5.56	S.52°45'W.		3.37	4.43
1.23	S.36°25'W.		.99	.73
4.88	S.47°00'W.		3.33	3.57
1.67	S.25°11'W.		1.51	.71
5.83	S.49°12'W.		3.81	4.41

Subdivision of Tp.2 S., R. 2 E., S.L.B.and M.

Chains.	Course	N. chs.	S. chs.	W. chs.	
1.22	S.40°21'W.		.93	.79	
4.05	S.87°04'W.		.21	4.04	
4.61	N.62°42'W.	2.11		4.10	
1.03	N.81°51'W.	.15		1.02	
4.53	S.81°15'W.		.69	4.48	
4.29	N.87°16'W.	.20		4.29	
3.14	S.49°57'W.		1.38	1.64	
3.14	N.79°45'W.	.56		3.09	
3.12	S.49°20'W.		2.03	2.37	
3.98	S.38°16'W.		2.34	1.85	At end of this course July 7, 1905, I set off 22°37'N.on decl.arc; and at 12h 05m l.m.t. observe the sun on the meri ian; the resulting lat.is 40°38½'N., which agrees with calculated lat.
4.47	S.53°40'W.		2.65	3.60	
4.38	S.30°40'W.		3.77	2.23	
3.20	S.68°26'W.		.81	2.05	
3.19	S.45°31'W.		2.24	2.28	
1.83	S.74°33'W.		.49	1.76	
5.27	S.53°50'W.		3.11	4.25	This course crosses bridge to S.side of Big Cottonwood Creek, 30 lks.wide, 18 ins.deep.
9.06	S.82°17'W.		1.22	8.98	At 7.75 chs.cross small stream from canon, heads S. At end of course frame house at Argenta, near the mouth of the Dolly Varden Tunnel, bears S.39°E. 72 lks.dist. Another house bears S.83°45'W.1.37 chs.dist. Another house bears N.84°E. 2.47 chs.dist.
2.60	N.27°43'W.	2.30		1.21	This course crosses bridge to N.side of Big Cottonwood Creek 30 lks.wide, 18 ins.deep,
1.94	N.69°07'W.	.68		1.81	At end of this course July 7th, 1905, at 7 h.05 m.p.m.l.m.t.I set off 40°38'E. on lat.arc; 22°36'N.on decl.arc; and determine a merid-

Chains. ian with the solar; from which last course bears S. 69°06'E.; thence turn from solar meridian.

	Course.	N. chs.	S. chs.	W. chs.	
2.50	N.83°40'W.	.28		2.48	At end of this course

post marked 1-3317 bears S.77°23'W. 56 lks.dist.

From said point U.S.Mineral Monument No.4 Big Cottonwood Mining District bears S.21°29'W. 302.9 ft.dist.

2.32	S.60°50'W.		1.13	2.03
2.55	N.69°41'W.	.89		2.39
1.30	N.73°10'W.	.38		1.24
.50	West			.50
.05	North	.05		
		7.61	51.59	79.62

To witness cor.to secs.13,14,23, and 24; on N.side of road set by me on line north bet.secs.13 and 14, at 36.02 chs., which makes a difference of 38 lks.in departure, lost in chaining over very rocky mountains- the lat.coming out even.

July 7, 1905.

Note: On account of the impracticable nature of the ground, the line bet.secs.23 and 24 was not surveyed. From the cor.to secs.13,14,23, and 24, I run

West on true line bet.secs.14 and 23,

Note: A thorough examination of the ground shows the utter impracticability of running the line bet.secs. 14 and 23 in place, on account of impassable ledges; therefore at the witness cor.set by me 36.02 chs.N. of the true corner to secs.13,14,23, and 24, I set off July 8, 1905, at 8 h.05 m.a.m.l.m.t.22°32'N.on decl.arc; 40°39'N.on the lat.arc; and determine a meridian with the solar; thence I run on traverse line as an offset to the true line bet.secs.14 and 23.

Subdivision of Tp.2 S., R.2 E., S.L.B.and M.

Chains.	5 ins., 9 ins.in the ground,for witness cor.to cor. secs. 14,15,22, and 23, marked W C on NE.face, with 3 notches on S. and 2 notches on E.edges; and raise a mound of stone 3 ft.base, 1½ ft.high W.of cor.; pits impracticable. July 8, 1905.
	July 10, 1905, at 8 h.05 m.a.m.l.m.t.I set off 40°38'N. on lat.arc; 22°18'N.on decl.arc, and determine a meridian with the solar at the witness cor.to secs.14 15,22, and 23, 6.17 chs.S of true cor.point thencedI measure 6.17 chs.North, and at true cor.point to said secs. I mark a solid white quartz ledge 150 ft high W with a cross at exact cor.point, with 3 notches on S. and 2 notches on E.faces; and raise a mound of stone 3 ft.base, 1½ ft.high SW.of cor.; pits impracticable; from which A crooked red pine bears S.88°E. 33 lks.dist., marked T 2 S R 2 E S 23 B T No other trees within limit. Land mountainous. Soil 1st rate, where there is any. Timber a few pines. Undergrowth oak,aspen, and maple. Mountainous land on 80.00 chs.
	N.0°02'W.bet.secs.14 and 15, Ascend over rocky ledges.
40.00	Set a quartzite stone 16x9x6 ins., 11 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; and raised a mound of stone 3 ft.base, 1½ ft.high W.of cor. Note: On account of impassable ledges and cliffs I abandon line here.

Subdivision of Tp. 2 S., R. 2 E., S.L.B.and M.

Chains.	From end of course S.79°2'W. above given, I run			
	Course	N. chs.	S. chs.	W. chs.
3.45	S.57°15'W.		1.87	2.90
2.99	S.83°20'W.		.35	2.97
5.54	S.38°28'W.		4.34	3.45
1.43	S.20°15'W.		1.34	.49 At end of this course,
	at 12 h. 05 m.p.m.l.m.t. July 8, 1905, I set off 22°30' N. on the decl.arc; and observe the sun on the meridian; the resulting lat.is 40°38'N., which agrees with the calculated lat.of the place.			
2.81	S.42°53'W.		2.06	1.91
1.41	S.16°00'W.		1.36	.39
3.62	S.63°20'W.		1.62	3.23
1.57	S.68°29'W.		.58	1.46
1.38	S.47°53'W.		.93	1.02
1.62	S.68°36'W.		.59	1.51
2.93	S.50°14'W.		1.87	2.25
3.03	S.77°26'W.		.66	2.96
3.96	N.89°48'W.	.01		3.96
3.17	S.40°24'W.		2.41	2.05 At end of this course
	at 3h 05m.p.m.l.m.t.July 8, 1905, I set off 40°38'N.on the lat.arc; and 22°30'N.on the decl.arc; and determine a meridian with the solar, from which last course bears north 40°22'E.- turn new course from the observed meridian.			
1.39	S.63°00'W.		.63	1.24
4.60	S.49°15'W.		3.00	3.48
1.39	S.32°26'W.		1.17	.75
.60	S.68°30'W.		.22	.56
9696		36.72	42.86	80.00 To a point 6.17 chs.S.
	0°02'E.of cor.to secs.14,15,22, and 23, on S.side of road and N.side of Big Cottonwood Creek, opposite mouth of Mineral Fork Creek, where I set a slate stone 14x10x			

Subdivision of Tp.2 S., R. 2 E., S.L.B.and M.

Chains. 5 ins., 9 ins.in the ground,for witness cor.to cor. secs. 14,15,22, and 23, marked W C on NE.face, with 3 notches on S. and 2 notches on E.edges; and raise a mound of stone 3 ft.base, 1½ ft.high W.of cor.; pits impracticable.

July 8, 1905.

July 10, 1905, at 8 h.05 m.a.m.l.m.t.I set off 40°38'N. on lat.arc; 22°18'N.on decl.arc, and determine a meridian with the solar at the witness cor.to secs.14 15,22, and 23, 6.17 chs.S of true cor.point thenceI measure 6.17 chs.North, and at true cor.point to said secs. I mark a solid white quartz ledge 150 ft high with a cross at exact cor.point, with 3 notches on S. and 2 notches on E.faces; and raise a mound of stone 3 ft.base, 1½ ft.high SW.of cor.; pits impracticable; from which

A crooked red pine bears S.88°E. 33 lks.dist., marked T 2 S R 2 E S 23 B T

No other trees within limit.

Land mountainous.

Soil 1st rate, where there is any.

Timber a few pines.

Undergrowth oak, aspen, and maple.

Mountainous land on 80.00 chs.

N.0°02'W.bet.secs.14 and 15,

Ascend over rocky ledges.

40.00 Set a quartzite stone 16x9x6 ins., 11 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; and raised a mound of stone 3 ft.base, 1½ ft.high W.of cor.

Note: On account of impassable ledges and cliffs I abandon line here.

Chains.	
	Land mountainous.
	Soil 1st rate, where there is any.
	Timber a few pines.
	Undergrowth aspen, oak, maple, and wild cherry.
	Mountainous land on 40.00 chs.
	July 10, 1905, at 12 h.05 m.l.m.t.at the cor.to secs.11, 12,13, and 14, I set off 22°16'N.on the decl.arc, and observe the sun on the meridian; the resulting lat.is 40°39'N., which agrees with the calculated lat. of the place.
	At 2 h.05 m.p.m.l.m.t.I set off 40°39'N.on the lat.arc; 22°15'N.on decl.arc; and determine a meridian with the solar at the same cor.
	As the cor.to secs.10,11,14, and 15 cannot be set in regular course, therefore, from the cor.to secs.11, 12,13, and 14, I run
	West on a true line bet.secs.11 and 14,
	Descend gently.
19.00	Flat hollow drains SE. Steep ascent.
40.00	Set a limestone 15x11x7 ins., 10 ins.in the ground,for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raised a mound of stone 3 ft.base, $1\frac{1}{2}$ ft.high N.of cor. Pits impracticable.
	Note: On account of impassable ledges and cliffs I abandon line.
	Land mountainous.
	Soil very scarce 1st rate where there is any.
	Timber a few pines.
	Undergrowth aspen, oak, maple, and wild cherry.
	Mountainous land on 40.00 chs.
	July 10, 1905.

Subdivision of Tp.2 S., R. 2 E., S.L.B.and M.

Chains.	
	July 24, 1905, at 8 h. 6 m.a.m.l.m.t.I set off 40°38'N. on the lat.arc; 19°57'N.on decl.arc; and determine a meridian with the solar at the cor.for secs.14,15,22 and 23, whence I run
	South 0°02'E.bet.secs.22 and 23,
	Descend on very steep and rocky S.slope into Big Cottonwood Canon.
6.17	The witness cor.to cor.secs.14,15,22 and 23 on S.side of Salt Lake and Brighton road.
6.23	Big Cottonwood Creek 30 lks.wide, 15 ins.deep, runs SW. 25 lks.east is mouth of Mineral Fork Creek;heads SE.
	Ascend steep and rocky NW.slope.
23.00	Top of spur bears NW. & SE. 800 ft.above bottom of canon; descend.
40.00	Near head of flat gulch drains NW. into Big Cottonwood Canon,
	Set a quartzite stone 14x8x6 ins.9 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; raised a mound of stone 3 ft.base, 1½ ft.high W.of cor. Pits impracticable.
	A pine 18 ins.dia.bears N.68°W.28 lks.dist. marked ¼ S 22 B T .
	A pine 6 ins.dia.bears N.65°E. 44 lks.dist. marked ¼ S 23 B T
	Note: On account of impassable cliffs and ledges I abandon line.
	Land mountainous; ledges and cliffs.
	Soil very scarce; what there is is 1st rate.
	Timber a few scattering pines.
	Mountainous land on 40.00 chs.
	July 24, 1905, at this cor. at 12 h. 06 m. I set off 19°54½' N.on the decl.arc; and observe the sun on the meridian; the resulting lat. is 40°38'N., which practically agrees with the true lat of the place.

Chains.

July 24, 1905, at 2 h.06 m.p.m.l.m.t.I set off 40°38'N. on the lat.arc; 19°53½' N.on the decl.arc; and determine a meridian with the solar at the W.C.,S.0.02'E. 6.17 chs. of true corner point to secs.14,15,22 and 23. Thence I run

West on true line bet.secs.15 and 22.

Note: On account of inaccessible ledges and cliffs it is impracticable to run the line bet.secs.15 and 22 in place; therefore, from the W.C.6.17 chs.S.0°02'E. of corner to secs.14,15,22, and 23, I run the following traverse along the road in canon as an offset line:

Chains	Course	N. chs.	S. chs.	W. chs.	
			6.17		Dist.S.0°02'E.of cor.to secs.14, 15,22 and 23.
2.30	S.89°37'W.		.02	2.30	
2.60	S.53°15'W.		1.56	2.08	
2.91	S.74°14'W.		.79	2.80	
2.13	S.43°10'W.		1.55	1.46	
1.80	S.76°39'W.		.42	1.75	
3.34	S.39°51'W.		2.56	2.14	
4.17	S. 12°48'W.		4.07	.92	
1.04	S.72°33'W.		.31	.99	
1.00	N.70°20'W.	.34		.94	
3.95	S.74°44'W.		1.04	3.81	
2.42	N.49°11'W.	1.58		1.83	
2.66	N.42°24'W.	1.96		1.79	
2.34	N.74°26'W.	.63		2.25	
1.79	N.56°08'W.	1.00		1.49	
1.65	N.81°52'W.	.23		1.63	
2.01	N.54°22'W.	1.17		1.63	
3.54	N.80°15'W.	.60		3.49	
2.56	S.73°04'W.		.75	2.45	
4.04	S.87°19'W.		.19	4.04	
.21	West			.21	
		7.51	19.43	40.00	At end of this course

Subdivision of Tp. 2 S., R. 2 E. S.L.B. and M.

Chains.

on S.side of the road near creek, at a point 11.92 chs.S.0°02'E. of true point for ¼ sec.cor., marked a flat stationary quartzite rock 20x13x5 ins.above ground for witness cor.to ¼ sec.cor.bet.secs.15 and 22 with a cross (X) and W C ¼ S 22 on top face; and raised a mound of stone 3 ft.base, 1½ ft.high N.of cor. pits impracticable.

A birch tree 4 ins.dia.bears S.69°E. 8 lks.dist. marked W C ¼ S 22 B T

No other bearing trees within limits.

July 24, 1905.

July 25, 1905, at 12 h. 06 m.p.m.l.m.t., at this point I set off 19°42'N.on the decl.arc; and observe the sun on the meridian; the resulting lat.is 40°37½'N. which is within ½ minute of true lat.

At same point July 25th, 1905, at 1 h. 50 m.p.m.l.m.t. I set off 40°38'N.on lat.arc; 19°41'N.on decl.arc; and determine a meridian with the solar.

Thence I run

	Courses	N. chs.	S. chs.	W. chs.	E. chs.	
		7.51	19.43	40.00		Carried forward.
.21	East				.21	
2.03	N.58°24'W.	1.06		1.73		At 57 lks.stream from Elbow Canon heading northerly 10 lks.wide, 10 ins. deep.
2.06	S.63°53'W.	.91	.91	1.85		
2.48	N.82°12'W.	.34		2.46		
5.13	S.74°59'W.		1.33	4.96		
1.17	N.82°18'W.	.16		1.16		
1.99	West			1.99		
1.27	N.77°19'W.	.28		1.24		
2.51	S.79°38'W.		.45	2.47		
2.19	N.78°49'W.	.42		2.15		

Subdivision Tp.2 S., R. 2 E., S.L.B.and M.

Chains	Courses	N. chs.	S. chs.	W. chs.	E. chs.	
4.97	S.77°05'W.		1.11	4.85		
2.28	S.89°51'W.		.01	2.28		
2.73	N.84°54'W.	.24		2.72		
2.55	S.69°40'W.		.88	2.39		
1.75	S.30°35'W.		1.51	.89		
2.09	S.16°42'E.		2.00		.60	At 70 lks.cross Big Cottonwood Creek 40 lks.wide, 18 ins.deep.
3.37	S.80°37'W.		.55	3.33		At end of this course cross bridge over stream from Mill B., S.fork 10 lks wide, 12 ins.deep.
3.04	S.71°26'W.		.97	2.88		
1.49	N.78°21'W.	.30		1.46		
.24	North	.24				
		10.55	29.15	80.81	.81	To a point 18.50 chs.S.0°02'E. of cor.to secs.15,16,21 and 22, where I Set a slate stone 18x14x5 ins., 12 ins.in the ground, for witness cor.to secs.15,16,21& 22 on N.side of Salt Lake and Brighton Road, and S.side of Big Cottonwood Creek, marked WC and 2 S on NE., 2 E on SE.face, with 3 notches on S.and E.edges; and raised a mound of stone 2 ft.base 1½ ft.high W.of cor. Pits impracticable. The true cor.point falling in inaccessible cliffs is not established.

Creek 35 lks.wide, 15 ins.deep.
Land mountainous, rocky, ledges, and cliffs mostly.
Soil lst rate where it exists.

Timber a few scattering pines.
Undergrowth aspen, oak, wild cherry, laurel, and maple.
Mountainous land on 80.00 chs.

July 25, 1905.

Chains.

At 8h 6 m.a.m.l.m.t.July 26, 1905, I set off 40°38'N.on lat.arc; 19°31'N.on decl.arc; and determine a meridian with the solar at the witness cor.18.60 chs.S.0°02'E. of the cor.point to secs.15,16,21, and 22,

Thence I run

S.0°02'E.bet.secs.21 and 22,

Ascending steep N.slope.

24.00 A pine tree 8 ins.dia.on line, marked with 2 notches on N. and S.sides.

27.00 Enter very broken rocky ground.

40.00 Set a quartzite stone 17x14x7 ins., 12 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; and raised a mound of stone 3 ft.base, 1½ ft.high W.of cor.Pits impracticable.

A pine 18 ins.dia.bears S.72°W. 61 lks.dist. marked ¼ S 21 B T

A pine 10 ins.dia.bears N.71°E. 79 lks.dist. marked ¼ S 22 B T

This cor.is about 600 ft.above canon.

Note: On account of the inaccessible and rocky nature of the ground, I abandon line here.

Land rocky and broken mountains.

Soil mostly rocky;1st rate where soil exists.

Timber a few pines.

Undergrowth aspen, oak, maple, and cherry.

Mountainous land on 40:00 chs.

West on a true line bet.secs.16 and 21,

On account of inaccessible cliffs and ledges it is impracticable to run the line in place; therefore, from the witness cor.to secs.15,16,21 and 22, set 18.60 chs.S.0°02'E.of the true cor.point, I run a traverse line along the canon road, turning off course from the

Chains.	Courses	N. chs.	S. chs.	W. chs.	
			18.60		Dist.S.0°02'E.of cor.point for secs.15,16,21 & 22.
.34	South		.24		
3.98	N.68°52'W.	1.07		2.78	
4.67	S.60°08'W.		2.33	4.05	
2.72	N.57°43'W.	1.45		2.30	
12.09	N.48°05'W.	8.08		9.00	At 5.57 chs.cross bridge over Big Cottonwood Creek, to N.side. Creek 45 lks.wide, 24 ins.deep.
2.46	N.32°58'W.	2.06		1.34	At 1.70 chs.cross stream from North Fork Mill B., 15 lks.wide, 6 ins.deep.
4.03	N.61°30'W.	1.92		3.54	
4.34	N.80°41'W.	.70		4.28	
2.43	S.73°39'W.		.68	2.33	
2.98	N.86°12'W.	.20		2.97	
5.21	S.86°55'W.		.28	5.20	
2.50	S.62°00'W.		1.17	2.21	At this point I set a quartzite stone 18x14x6 ins., 12 ins.in the ground, for witness cor.to ¼ sec.cor.bet.secs.16 and 21, 7.82 chs.S.0°02'E. of true cor.point, marked W C ¼ S 21 on S.face; and raised a mound of stone 2 ft.base, 1½ ft. high W.of cor.Pits impracticable.

Note: This cor.is faced S.instead of N., as it is situated on a S. slope, which would bury the mark if on N. face. For same reason the mound of stones is west of corner.

At this point, July 26, 1905, at 12h.06m.1.m.t. I set off 19°39'N.on the decl.arc, and observe the sun on the meridian; the resulting lat.is 40°38½' N., which is ½ minute over the true lat.of the place.

Chains	Courses	N. chs.	S. chs.	W. chs.	
1.76	S.38°01'W.		1.39	1.08	
2.45	S.80°49'W.		.399	2.42	
1.39	S.45°26'W.		.988	.99	
1.50	S.28°48'W.		1.31	.72	
2.45	S.49°54'W.		1.58	1.87	Broad's Canon to S.with stream of water.
1.49	S.38°05'W.		1.17	.92	
2.12	S.72°53'W.		.62	2.03	
3.03	S.29°01'W.		2.65	1.47	
2.06	S.64°16'W.		.89	1.86	
2.27	S.30°14'W.		1.96	1.14	
2.16	S.54°30'W.		1.25	1.76	
1.86	S.70°40'W.		.62	1.76	
2.46	S.53°30'W.		1.46	1.98	At this point I drive an iron rod 1 ft.long 3/8 in.dia.into the ground,from which S.McNutt's cabin bears S.53°42'W.91 lks.dist. A number of framed tents about 3 chs.S.on S.side of Big Cottonwood Creek. At this point at 3 h. 06 m.p.m.l.m.t.July 26. 1905, I set off 19°27'N.on the decl.arc; 40°38'N.on lat.arc; and determine a meridian with the solar, from which the last course bears N.53°32'E., and from which I turn off succeeding courses.
3.35	S.31°10'W.		2.87	1.73	
2.91	S.44°40'W.		2.06	2.05	
3.04	S.60°06'W.		1.52	2.64	
1.98	S.71°30'W.		.63	1.88	At this point cross bridge over gulch from Whipple Canon, heads N.at a cor. claimed by J.Dubei as the easterly cor.of his property.
4.26	S.68°02'W.		1.59	3.95	
3.86	S.82°02'W.		.54	3.82	
4.38	S.64°17'W.		1.90	3.94	
94.43		15.48	50.68	80.01	At this point 35.20

Chains.

chs.S.0°03'E.of the cor.point to secs.16,17,20, and 21, I marked a stationary quartzite rock 36x12x10 ins. above ground with a cross at exact point and with 3 notches on S.and 4 notches on E.edges; and W C for witness cor.to secs.16,17,20 and 21, and raised a mound of stone 3 ft.base, 1½ ft.high on top of the rock NW.of cor.mark; it being impracticable to place it west. Pits impracticable.

July 26, 1905.

July 27, 1905, at 8h.6m.a.m.l.m.t.I set off 40°38'N.on the lat.arc; 19°18'N.on the decl.arc, at the witness cor.set 35.20 chs.S.0°03'E.of cor.point to secs.16,17 20 and 21, and determine a meridian,with the solar, from which the last course taken on night previous reads N.64°15'E., and by which the subsequent courses are governed.

From said witness cor.I measure N.0°03'W.35.20 chs.to the true cor.point to secs.16,17,20, and 21, where I marked a stationary quartzite rock 5x4x4 ft. above ground, with a cross and 4 notches on E.side and 3 notches on S.side of cor point (X''''); raised a mound of stone 3 ft.base, 1½ ft.high W.of cor. Pits impracticable.

A balsam 6 ins.dia.bears S.76½ °E. 45 lks.dist. marked T 2 S R 2 E S 21 B T

A cedar 3 ins.dia.bears S.89°W. 3 lks.dist. marked T 2 S R 2 E S 20 B T

This corner is about 900 ft.above main canon.

The description of the line bet.secs.16 and 21 is as follows:

Land rocky ledges on steep S.slope of canon.

Soil 1st rate where there is any. here is.

Chains.

Timber a few scattered pines.

Undergrowth oak, aspen, maple and choke-cherry.

Mountainous on 80.00 chs.

Note: It is impracticable to run east from this point.

July 27, 1905, at 12 h.6 m.1 m.t.I set off 19°15'N.on the decl.arc; and observe the sun on the meridian, at the cor.to secs.16,17,20, and 21, the resulting lat.is 40°38'N., which is practically the lat of the place. From said cor.I run

S.0°03'E.bet.secs.20 and 21.

Ascending through heavy undergrowth.

17.75 A spruce 20 ins.dia.on line, which I mark with 2 notches on N. and S.sides.

18.00 Point of SE.spur about 250 ft.above foregoing cor.

Descend on SW.slope; very rocky and precipitous.

18.82 An oak 4 ins.dia.on line, which I mark with 2 notches on N. and S.sides.

24.13 Top of white ledge 75 ft.high bears NW. and SE.

35.20 Witness cor.on N.side of road above described.

36.90 Big Cottonwood Creek 35 lks.wide, 25 ins.deep, runs SW. at foot of steep shale ledge 50 ft.high.

40.00 Marked solid ledge of shale with a cross (X) at exact point for ¼ sec.cor., and ¼ W.of same; 200 ft.above Big Cottonwood Creek; raised a mound of stone 3 ft. base, 1½ ft.high W.of cor.

July 27th, at this cor.at 3 h.15 m.p.m.1 m.t.I set off 40°38'N.on the lat.arc; 19°14'N.on the decl.arc; and determine a meridian with the solar.

63.03 Finding it impracticable to continue this line on account of ledges and precipices, I marked the top of solid quartzite ledge,36 ft.high,with a cross (X) and 4 notches on E. and 2 notches S.of cross, and WC on NE.for witness cor.to secs.20,21,28 and 29; and raised

Chains.

a mound of stone 3 ft.base, 1½ ft.high W.of cor.Pits impracticable.

80.00 Falls in inaccessible ledges; corner not set.

Land steep ledges; mountainous.

Soil mostly rock; 1st rate where there is any.

Timber scattering pines.

Undergrowth oak, maple, and choke-cherry.

Mountainous land 80.00 chs. July 27, 1905.

July 28, 1905, at the witness cor.35.20 chs.S.0°03'E.of cor.to secs.16,17,20, and 21, at 8 h.6 m.a.m.l.m.t.I set off 40°38'N.on the lat.arc; 19°04'N.on the decl. arc; and determine a meridian with the solar; from which last course on traverse line leading to this witness cor.bears N.64°17'E., which agrees with the reading previously recorded.

West bet.secs.20 and 29,

Note: As it is impracticable to run the line west bet. secs.20 and 29 in place, on account of steep ledges and precipices; therefore from the witness cor.35.20 chs.S.0°03'E.of cor.to secs.16,17,20, and 21, I run a traverse line in lieu thereof.

	Courses.	N. chs.	S. chs.	E. chs.	W. chs.	
	The distance N.0°03'E.from cor.to secs.20, 21,28, and 29, to W.C.is					
44.80	N.0°03'E.	44.80		0.04		
1.87	S.64°05'W.		.82		1.68	
2.36	S.32°15'W.		2.00		1.26	
2.16	S.58°42'W.		1.12		1.84	
2.55	S.37°33'W.		2.02		1.55	To cor.of Dubei and Maxfield.
2.68	S.60°13'W.		1.33		2.33	
6.50	S.28°39'W.		5.71		3.11	At 2 chs.on this course I established a point S.49°41'E.2.87 chs.dist.;
		44.80	13.00	0.04	11.77	Carried forward.

Chains.

~~dist.~~ from which

Maxfield's house bears S.29°20'W. 34 lks.dist.

A cottage bears S.52°36'E. 37 lks.dist.

A cottage bears S.81°15'E. 57 lks.dist.

Rock house foundation bears N.75°05'E. 76 lks.dist.

Stone cellar bears N.68°41'E. 130 lks.dist.

Dubel's house bears N.70°29'E. 239 lks.dist.

	Courses	N. chs.	S. chs.	E. chs.	W. chs.	
		44.80	13.00	.04	11.77	Carried forward.
2.17	S.14°46'E.		2.10	.55		
8.16	S.7° 43'W.		8.09		1.09	At 4 chs.Power Watchman's house bears S.82°15'E. 94 lks.dist., on wash heading northerly in Mule Gulch. At 5.96 chs.cross Big Cottonwood Creek 75 lks.below bridge 60 lks.wide, 18 ins.deep, head of reservoir 25 lks.below.
1.87	S.39°52'W.		1.44		1.20	At end of this course enter rock cut.
1.56	S.14°17'W.		1.51		.39	At 1.25 chs.on this course leave rock cut.
2.66	S.16°48'E.		2.55	.77		
3.25	S.45°37'W.		2.27		2.32	
2.22	S.26°32'W.		1.99		.99	
2.68	N.76°04'W.	.65			2.60	At end of this course the following mark (R D M / C C) ⊥ on solid ledge bears N.84°46'W.1.37 chs.dist. This is said to be the westerly cor.of R.D.Maxfield's claims.
3.46	S.10°38'W.		3.40	.64	.64	
.32	West			.37	.32	
.37	South		.37			At this point being 20 chs.W. and 8.73chs.N.0°03'W.of cor.to secs. 20,21,28 and 29, I set a blue slate stone 16x12x5 ins. 11 ins.in the ground, marked with a cross (X) at exact cor.point and WC 1/16 on NE. face; raise a mound of stone 2 ft.base, 1½ ft.high N.of cor.

Chains.	Courses	N. chs.	S. chs.	E. chs.	W. chs.
	This point was established to perpetuate a point on my traverse line and for the convenience of the settlers on the line.				
.97	S.81°05'W.		.15		.96
1.95	S.87°05'W.		.10		1.95
3.86	N.85°39'W.	.29			3.85
5.48	S.59°27'W.		2.78		4.72 At 3.73 chs. cross bridge over stream from Stair Gulch, 15 lks.wide 10 ins.deep, heading S.
2.22	S.47°21'W.		1.50		1.63
2.57	S.75°53'W.		.63		2.49
3.38	S.43°11'W.		2.46		2.31
1.95	S.89°43'W.		.01		1.95 At this point I measure west 14 lks., and S. 139 lks., where I set a quartzite stone 16x11x5 ins.11 ins.in the ground, for ¼ sec.cor., marked ¼ on N.face; and raised a stone mound 3 ft.base, 1½ ft.high N.of cor.Pits impracticable. A fir 5 ins.dia.bears S.38 lks.dist.marked ¼ S 29 B T. July 28, 1905, at this cor.I set off 19°02'N.on the decl.arc; and at 12h 06m observe the sun on the meridian; the resulting lat.is 40°37'N., which agrees with the calculated lat of the place. Thence from end of last meander course,				
4.74	N.70°10'W.	1.61			4.46
5.11	N.30°05'W.	4.42			2.56 At 3 chs.bridge over Cottonwood Creek, 24 lks.wide, 15 ins.deep; thence along N.side of creek.
2.73	N.29°07'W.	2.39			1.33
3.41	N.23°25'E.	3.13		1.35	To a point near "Old Dugout" cabin.
3.03	N.51°37'W.	1.88			2.38
1.84	N.78°51'W.	.36			1.81
6.67	S.59°19'W.		3.40		5.74

Subdivision of Tp.2 S., R. 8 E., S.L.B.and M.

Chains.	Courses	N. chs.	S. chs.	E. chs.	W. chs.
3.97	S.84°28'W.		.38		3.95
2.25	N.E.corner upper Power House 25 ft.to the left.				
4.11	S.40°00'W.		3.15		2.64

This point is immediately north of Pump House near head of flume. At this point, July 28, 1905, at 3 h. 06 m.p.m.l.m.t.I set off 40°37'N.on the lat.arc; 19°00'N.on the decl. arc; and determine a meridian with the solar, from which last course bears N.39°58'E., and from which subsequent courses are determined.

2.06	S.85°53'W.		.15		2.05
3.82	S.73°48'W.		1.07		3.67
1.46	N.59°31'W.	.74			1.26
1.76	N.79°41'W.	.32			1.73
2.29	N.68°11'W.	.85			2.13
2.83	S.88°10'W.		.09		2.83
1.84	S.75°45'W.		.45		1.78
1.38	N.58°30'W.	.72			1.17
		62.16	53.04	8.77	82.67

At this point 9.12 chs.N.0°04'W..of true cor.point I set a slate stone 16x11x5 ins., 11 ins.in the ground, for witness cor.to cor. secs.19,20,29 and 30, on N.side of road; marked with 5 notches on E. and 2 notches on S.edge; and W C on N face; raised a mound of stone 3 ft.base, 1½ ft.high W. of cor.Pits impracticable.

July 28th, 1905.

July 29, 1905, at 8 h.06 m.a.m.l.m.t.I set off 40°37'N. on the lat.arc; 18°50'N.on the decl.arc; and determine a meridian with the solar at the W.C., N.0°04'W.9.12 chs., of the cor.point to secs.19,20,29, & 30, then measure S.0°04'E.9.12 chs.where I mark a stationary blue quartzite stone 24x24x18 ins.above ground with a cross

Chains	
	(X) at exact cor.point for cor.to secs.19,20,29 and 30, with 5 notches on E. and 2 notches on S.edges; and raised a mound of stone 3 ft.base, 1½ ft.high W.of cor.Pits impracticable:
	A pine 14 ins.diam.bears N.51°30'E. 74 lks.dist. marked T 2 S R 2 E S 20 B T
	A pine 30 ins.dia.bears S.32°40'E. 93 lks.dist. marked T 2 S R 2 E S 29 B T
	No other trees within limits.
	This last tree has a large blaze on S.side, marked "Glen Aptan Stake No.6 NW." (a claim location)
	The cor.is in the middle of a rock slide.
	Land on line bet.secs.20 and 29 is high cliffs and ledges on N.slope of mountain.
	Soil mostly rocks; 1st rate where soil exists.
	Undergrowth oak,maple, and aspen.
	Mountainous land on 80.00 chs.
	N.0°04'W.bet.secs.19 and 20,
	Descend over steep rocky slope.
4.50	Power Transmission Line bears E. and W.
8.40	Big Cottonwood Creek 40 lks.wide, 18 ins.deep, runs W.
9.12	Witness cor.on N.side of Salt Lake and Brighton Road.
	Ascend ledge 50 ft.high.
10.15	Flume runs northwesterly.
34.00	Foot of rocky hill.
40.00	On W.side of solid ledge 300 ft.high, 30 ft. from top at exact point for ¼(S)c.cor., I cut a cross (X) and ¼ W.of same; and raised a mound of stone 3 ft.base, 1½ ft.high W.of cor.Pits impracticable.
	A pine 12 ins.dia.bears N.37°W. 27 lks.dist. marked ¼ S 19 B T
	No other trees within limits.
	Note: On account of impassable ledges and precipices I

Subdivision of Tp.2 S., R. 2 E., S.L.B.and M.

Chains	
	abandon line here.
	Land high broken ledge masses.
	Soil 1st rate, but mostly rock.
	Timber a few scattering pines.
	Undergrowth oak and maple.
	Mountainous land on 40.00 chs.
	July 29, 1905.

From data in the Surveyor General's Office it is known that the line west bet.secs.19 and 30 will fall considerably south of the cor.to secs.24 and 25 on the E.bdy.of Tp.2 S., R. 1 E., I therefore run

West on a true line bet.secs.19 and 30,

Note: The line in place falling in impracticable ground on account of ledges and precipices, I run a traverse line from the witness cor.9.12 chs.N.0°04'W.of cor.to secs.19,20,29, and 30.

July 31, 1905, at 8 h.06 m.a.m.l.m.t.I got off 40°37'N. on the lat.arc; 18°22'N.on the decl.arc; and determine a meridian with the solar at the said witness cor., from which I deduce my course on following traverse line.

	Courses	N. chs.	S. chs.	E. chs.	W. chs.
		9.12 Dist. N.0° 04'W.of cor.to secs.19, 20,29 & 30.			
1.65	N.79°08'W.	.31			1.62
4.49	S.68°30'W.		1.65		4.18
3.56	N.60°34'W.	1.75			3.10
2.87	N.42°50'W.	2.10			1.95
3.89	S.71°08'W.		1.26		3.68
6.00	N.65°42'W.	2.47			5.47
2.77	S.76°43'W.		.64		2.70
5.67	N.41°35'W.	4.24			3.76

Subdivision of Tp.2 S., R. 2 E., S.L.B.&M.

Chains.	Courses	N. chs.	S. chs.	E. chs.	W. chs.	
1.50	N.74°52'W.	.39			1.45	
2.72	N.83°35'W.	.30			2.70	At 1.25 chs.
	culvert over gulch heads northerly.					
4.09	N.65°46'W.	1.68			3.73	
1.90	S.63°30'W.		.85		1.70	
2.09	S.35°08'W.		1.71		1.20	
2.22	S.8°09'W.		2.20		.33	
1.77	S.43°41'W.		1.28		1.22	
1.24	S.80°30'W.		.20		1.23	At this point

12.57 chs. N.0°04'W. of true cor. point I set a green slate stone 16x10x4 ins., 11 ins. in the ground for witness ¼ sec. cor. bet. secs. 19 and 30 on N. side of road, marked ¼ W C on NE. face; and raised a mound of stone 3 ft. base, 1½ ft. high N. of cor. Pits impracticable; the true cor. point being inaccessible.

July 31, 1905, at 12 h. 06 m. l. m. t. at this witness cor. I set off 18°19'N. on decl. arc; and observe the sun on the meridian; the resulting lat. is 40°37'N., which is practically correct.

At the same place, same date, at 2 h. 06 m. p. m. l. m. t. I set off 40°37'N. on the lat. arc; 18°18'N. on the decl. arc; and determine a meridian with the solar, from which the last course bears N. 80°30'W., which agrees with the recorded reading.

1.94	S.71°15'W.		.62	1.84	
4.84	S.40°20'W.		3.69	3.13	
1.81	S.14°53'W.		1.75	.47	
4.37	S.46°13'W.		3.02	3.16	
1.69	S.76°06'W.		.57	1.59	
2.70	S.39°31'W.		1.77	1.47	
5.10	S.66°52'W.		2.40	5.61	At 1.60 chs. cross
	Power transmission line bears E. and W.				
3.62	S.44°18'W.		2.81	2.74	
		22.36	26.42	60.01	

Chains.	Courses	N. chs.	S. chs.	E. chs.	W. chs.	
		22.36	26.42		60.01	Carried forward.
3.20	S.71°36'W.		1.01		3.04	
4.13	S.38°14'W.		3.25		2.56	
2.06	S.64°50'W.		.88		1.86	
2.75	N.78°08'W.	.57			2.69	
4.20	S.75°28'W.		1.05		4.07	
2.71	S.34°59'W.		2.22		1.55	
2.30	S.61°05'W.		1.11		2.01	
2.84	S.40°24'W.		2.16		1.84	At this point
		22.93	38.10		79.63	

intersect the west boundary of the Tp.12.09 chs.N.of the ¼ sec.cor.on the N.side of sec.25 T.2 S., R. 1 E., which is a limestone 4x7x6 ins.above ground,marked and witnessed as described by the surveyor general, which makes the falling of the line bet.secs.19 and 30 12.74 chs.S.of the cor.to secs.24 and 25. As this point falls on the face of an almost perpendicular cliff 200 ft.high, I mark the bottom of the cliff at a point 1.25 chs.S.of the true closing cor.point, with a cross (X) and 4 notches on the N. and 2 notches on the S.of cross and W C C on the NE.side as the witness closing cor.to secs.19 and 30 Tp.2 S., R. 2 E., and raised a mound of stone 3 ft.base, 1½ ft.high SE. of cor. West side being inaccessible.

Description of the line bet.secs.19 & 30,

Land precipitous and ledgy mountain slopes.

Soil mostly rocky, some 1st rate.

Undergrowth oak, aspen, and maple.

Mountainous land on 79.63 chs.

July 31, 1905.

Subdivision Tp.2 S., R. 2 E., S.L.B.and M.

Chains	
	August 1, 1905, at 8 h.06 m.a.m.l.m.t.I set off 40°37' N.on the lat.arc; 18°07'N.on the decl.arc; and determine a meridian with the solar at the cor.of secs.19, 20,29, and 30, from which I run S.0°04'E.bet.secs.29 and 30 Over very rocky and precipitous ledges.
40.00	Set a quartzite stone 17x11x5 ins., 12 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face; and raised a mound of stone 3 ft.base, 1½ ft.high W.of cor.; pits impracticable. A large quartzite boulder 16x8x6 ft.bears S.30°15' W. 130 lks.dist., marked with a cross (X) and ¼ S 30 B 0 Note: On account of impossible ledges abandon line. Land very precipitous ledges. Soil rocky, some 1st rate. Timber a few scattering pines. Mountainous land on 40.00 chs.
	August 1, 1905, at 2 h.06 m.p.m.l.m.t.I set off 40°38' N.on lat.arc; 18°03'N.on decl.arc; and determine a meridian with the solar at the cor.of secs.16,17,20,and 21, from which I turn off an angle of 90°W., and run West on true line bet.secs.17 and 20, Note: This line was run true west because the cor.to secs.17,18,19 and 20 was not established. Across precipitous ledges and cliffs.
40.00	Set a slate stone 16x10x10 ins.11 ins.in the ground, for ¼ sec.cor., marked ¼ on N.face; and raised a stone mound 3 ft.base, 1½ ft.high N.of cor.Pits impracticable. No bearing objects at hand. Note: On account of impassable ledges I abandon line here.

Subdivision of Tp.2 S., R. 3 E., S.L.B.and M.

Chains.

Land steep ledges.

Soil mostly rocks; some 1st rate.

Timber, a few scattering pines.

Undergrowth oak and aspen.

Mountainous land on 40.00 chs.

August 1, 1905.

G E N E R A L D E S C R I P T I O N.

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The surveyed portion of this township embraces a portion of Big Cottonwood Canon, one of the most rocky, rugged, and difficult canons of the Wasatch Range, its sides being composed almost entirely of quartzite, slate, limestone, and granite ledges, standing on their edges.

There is scarcely any grazing land in this township, and but very little tillable land in the bottom of the canon.

The canon has, at one time, been well timbered as is evidenced by the numerous mill settings, now abandoned; but at the present time the lumber industry has entirely ceased, because the lumber has all been cut out.

There are some mines in the upper part of the canon, producing lead-silver ores.

Sections 20,21, and 29 contain some fine ledges of slate and shale, which is considered the finest road dressing material in the State. The surveyed portions of sections 12,13,14,23, and 24 are returned as mineral land.

There are quite a few buildings in sec.13,some occupied, some empty. The old mining town of Argenta in the SW.¼ of sec.13, is almost deserted. The SE¼ of

sec.14 contains several patented mining claims, notably the Maxfield Mine, which has been a good producer of argentiferous galena for over thirty years.

The NW.¼ of sec.21 contains S.McNutt's settlement with considerable improvements.

The SE¼ of sec.20 contains settlements by J. Dubei, R.D.Maxfield, and others; also a reservoir built by the Utah Light and Railway Company for providing electrical power. The SW¼ of sec.20 contains the so-called Upper Power House,etc., belonging to the same company.

A splendid wagon road runs through the whole extent of the township along Big Cottonwood Creek, a fine trout stream.

The whole canon is quite a resort for the citizens of Salt Lake during the hot months of the summer.

Augustus F. Thum

U.S.Deputy Surveyor.

Note: SE¼ sec.12, NE¼ sec.24, SE¼ sec.15, NW¼sec.23, and NW¼ sec.22 I have platted on the map as being surveyed. Under the strict interpretation of the rules of the Department, as laid down in art.228, p.74,Manual of Instructions 1902, this should not have been done; but, as the rugged and impracticable nature of the ground renders it extremely improbable that any further subdivisional surveys will ever be made in this township; and, as portions of these quarter sections will, no doubt, be claimed by settlers in the near future, I advise that they be marked as surveyed, especially as they all have their legally established corners.

For the same reasons I have platted the S½ of sec.19, and the N½ sec.30, which contain improvements, and

Subdivision of Tp.2 S., R. 2 E., S.L.B.and M.

which will be filed on by claimants, as soon as the plat is filed in the local land office.

This township contains the most precipitous mountains in the State; the ledges standing completely on edge, which renders subdivisional survey of same impracticable and almost impossible. The rocky nature of the surface renders it unfit for cultivation or grazing, or for any other agricultural purpose.

Augustus D. Pierson

U.S.Deputy Surveyor.

Note: There being no official authorized to administer oaths within a reasonable distance at the beginning and ending of these surveys; therefore, in order to save time and expense, I administer the preliminary and final oaths myself.

Augustus D. Pierson

U.S.Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Augustus L. Ferron, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the subdivisions, Township 2 South, of Range 2 East, Salt Lake Base and Meridian in Utah, showing the respective capacities in which they acted:

Arthur Erickson, Chainman.
Fred. C. Ferron, Chainman.
, Moundman.
Alonzo Green, Moundman. and
, Axman.
, Axman.
Rob Ferron, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Augustus L. Ferron, United States Deputy Surveyor, in surveying all those parts or portions of the Subdivisions of Township 2 South, of Range 2 East, of the Salt Lake Base and Meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Arthur Erickson, Chainman.
Fred C. Ferron, Chainman.
, Moundman.
, Moundman. and
Alonzo Green, Axman.
, Axman.
Rob Ferron, Flagman.

Subscribed and sworn to before me this 14th day of August, ~~189~~ 1905.

SEAL

A. L. Ferron
Notary Public

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Augustus D. Ferron, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the 15th day of March 1904, ~~1899~~, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Subdivision of Township 2 South, of Range 2 East of the Salt Lake meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Augustus D. Ferron
United States Deputy Surveyor.

Subscribed by said Augustus D. Ferron, and sworn to before me this 18th day of August 1905

Edward H. Anderson
U.S. Surveyor-General
for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Feb 21 1906.

The foregoing field notes of the survey of the subdivisional lines of Township 2 South, Range 2 East of the Salt Lake Base and Meridian, Utah,

executed by Augustus D. Ferron under his contract No. 283, dated March 15, 1904, ~~XXX~~, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hall
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in ..... has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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A

BOOK A-334

FILED
MAR 18 1905

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FIELD NOTES

OF THE SURVEY OF THE

East and West Boundaries

T. 6 S. R. 18 W.

Of the Salt Lake Base & Meridian,

Utah

AS SURVEYED BY

Alonzo J. Stookey, United States Deputy Surveyor,

Under his Contract No. 284, dated Mar 24, 1904, 189

Survey commenced June 2, 1904, 189

Survey completed June 3, 1904, 189

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E Bdy low 3.0000
W " high 3.0000
Clofing 1-26.71

BOOK A-334

NAMES AND DUTIES OF ASSISTANTS.

John A. Erickson Chainman
Lionel J. Stookey "
Lincoln A. Stookey Flagman

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BOOK A-334

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Meanders Page.....

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PRELIMINARY OATHS OF ASSISTANTS.

WE, John A. Ericksen and Lionel J. Stookey do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the E. & W. Bdy of T. 6 S. R. 18 W. of the Salt Lake Base and Meridian Utah

John A. Ericksen, *Chainman.*

Lionel J. Stookey, *Chainman.*

Subscribed and sworn to before me this 2" day of June, 1904

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

WE, ... and .....

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., *Moundman.*

....., *Moundman.*

Subscribed and sworn to before me this ..... day of ....., 189

SEAL

WE, ... and .....

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., *Axman.*

....., *Axman.*

Subscribed and sworn to before me this ..... day of ....., 189

SEAL

I, Lincoln A. Stookey, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the E. & W. Bdy of T. 6 S. R. 18 W. of the Salt Lake Base and Meridian Utah

Lincoln A. Stookey, *Flagman.*

Subscribed and sworn to before me this 2" day of June, 1904

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

East Boundary of T. 6 S R 18 E.

Being engaged in some private work in vicinity of this township and as it is entirely distinct and separate from the other townships embraced in my contract, I concluded to survey it although it is not the first one called for in my instructions.

My special instructions accompanying this contract direct me to survey the northern two tiers of sections only, the remainder of the township being considered worthless.

On entering the field, however, I find that about 65% of the third tier of sections is land of a very good quality.

This coupled with the fact that while in that vicinity I was employed by parties residing in that neighborhood to survey a reservoir site on Deep Creek with a view of reservoiring water to be used for purposes of irrigation on this Tp., lead me to include within my survey the third tier of sections also.

I therefore proceed as follows:

Survey commenced June 2 1904, and executed with a W. and L. E. Gurley Light Mountain Transit, the horizontal

limb is provided with two double verniers placed opposite each other, reading to single minutes of arc which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Salt Lake City, found correct and was approved by the Surveyor General for Utah May 19, 1904. At the standard cor. of T. 5 S Rs 17 and 18 W. which is a granite stone 6 x 6 x 6 ins. above ground marked and witnessed as described by the Surveyor General in approximate latitude 40° 19' 59" N. longitude 113° 49' 42" W. at 2h 42.4m a.m. l. m. t. I observe Polaris at eastern elongation in accordance with the instructions in the Manual and mark the line thus determined by a tack driven into a wooden plug set in the ground 5.00 chs. N. of my station June 2, 1904 at 7.30 a.m. Turn off the azimuth of Polaris 1°34'4" to the west and mark the meridian thus determined by a tack driven into a wooden plug firmly set in the ground west of the mark established last night; the magnetic bearing of said true meridian is N. 16°18' W. which gives the

East Boundary T. 6 S R. 18 W.

magnetic declination 17°18' E.
I lay off an angle of 90° from the meridian from north to east and run East along the First Standard Parallel South.
Over level desert
51.83 Which is the proper allowance for convergency at this point.
I set a porphyry stone 18x6x5 ins. 12 ins in the ground for closing cov. of T. 6 S Rs 17 & 18 W. marked C.C. 6 S. on S, 17 W. on E. and 18 W. on W. faces with 6 grooves on S. E & W faces; dig pits 30x24x12 ins. cross-wise on each line E & W. 4 ft dist. and S. of stone 8 ft dist. and raise a mound of earth 5 ft. base 2½ ft high S. of cov.
Sand level desert
Soil saline 2" rate.

From the closing cov. of T. 6 S. Rs 17 & 18 W. described above
Run
South bet. secs 1 and 6.
Over level desert.
40.00 Set porphyry stone 15x8x5 ins 10 ins in the ground for 1/4 sec. cov. marked 1/4 on W. face, dig pits 18x18x12 ins N & S. of stone 3 ft dist. and raise a mound of earth 3½ ft base 1½ ft. high W of cov.
80.00 Set a porphyry stone 18x6x5 ins. 12 ins. in the ground for cov. of secs 1, 6, 7 & 12. marked with 1 notch on the N. and 5

East Boundary T6S R18W.

notches on S edges; dig pits 18×18×12 ins in each sec. 5½ ft dist. and raise a mound of earth 4 ft. base 2 ft high W. of cov.
Sand level desert.
Soil saline 2" rate

South bet. secs 7 & 12.
Over level desert
40.00 Set porphyry stone 15×8×6 ins. 10 ins. in the ground for ¼ sec. cov. marked ¼ on W. face; dig pits 18×18×12 ins. N & S. of stone 3 ft. dist. and raise a mound of earth 3½ ft base 1½ ft high W. of cov.
80.00 Set a porphyry stone 15×8×6 ins. 10 ins in the ground for cov. of secs 7, 12, 13 & 18 marked with 2 notches on N and 4 notches on S edges; dig pits 18×18×12 ins. in each sec. 5½ ft dist and raise a mound of earth 4 ft. base 2 ft. high W. of cov.
Sand level desert
Soil saline 2" rate

South bet. secs 13 & 18
Over level desert
40.00 Set porphyry stone 12×8×6 ins. 8 ins in the ground for ¼ sec. cov. marked ¼ on W. face; dig pits 18×18×12 ins. N & S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high W. of cov.
80.00 Set porphyry stone 15×6×6

East Boundary T. 6 S. R. 18 W.

ins. 10 ins. in the ground for cor. of secs. 13, 18, 19 and 24 marked with 3 notches on N. and S. edges; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist. and raise a mound of rocks 4 ft. base 2 ft. high W. of cor.
Land level desert
Soil saline. 3" rain.

June 2, 1904.

West Boundary T. 6 S. R. 18 W.

June 3. 1904, at the standard cor. of Tp. 5 S. Rs. 18 and 19 W. which is a limestone 6 X 6 X 6 ins. above ground marked and witnessed as described by the Surveyor General in approximate lat. 40° 19' 57" N. long. 113° 56' 31" W. at 2h 38.8m a.m. l. m. t. I observe Polaris at eastern elongation in accordance with the instructions in the Manual and mark the line thus determined by a tack driven into a wooden plug set in the ground 5.00 chs. N. of my station.

At 7h 30m a.m. I turn off the azimuth of Polaris 1° 34.4' to the west and mark the true meridian thus determined by a tack driven into a wooden plug firmly set in the ground west of the mark established last night; the magnetic bearing of said true meridian is N. 17° 19' W. which gives the magnetic declination 17° 19' E.

I lay off an angle of 90° from the meridian from north to east and run East along the First Standard Parallel South.

Over almost level land through dense shadscale undergrowth.

5488 Which is the proper allowance for convergency at this point I set a porphyry stone 18 X 8 X 8 ins. 12 ins. in the ground

West Boundary T. 6 S. R. 18 W.

for closing cor. of T. 6 S. Rs 18 & 19 W. marked C.C. 6 S. on E. 18 W. on E. and 19 W. on W. faces with 6 grooves on S. E. and W. faces; dig pits 30 x 24 x 12 ins. cross wide on each line E. & W. 4 ft. dist. and S. of stone 8 ft. dist. and raise a mound of earth 5 ft. base 2½ ft. high S. of cor.
Land almost level
Soil sandy 2nd rate
Land covered with dense undergrowth 5.4.88 chs.

From the closing cor. of T. 6 S. Rs. 18 & 19 W. described above
Gunn
South bet. secs 1 and 6

Over almost level land through dense chaparral undergrowth
40.00 Set porphyry stone 15 x 12 x 5 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
80.00 Set a granite stone 18 x 8 x 8 ins. 12 ins. in the ground for cor. of secs. 1, 6, 7 & 12 marked with 1 notch on N. and 5 notches on S. edges; dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist. and raise mound of earth 4 ft. base 2 ft. high W. of cor.
Land almost level

Soil sandy 2nd rate
Land covered with dense
undergrowth 80.00 chs.

South bet secs. 7 & 12.
Over almost level land
through dense shadscale
and greasewood under-
growth.
24.60 Road from Eriksons
ranch to Lapah. bears
N. 35° E. & S. 35° W.
40.00 Begin descent into creek bottom
bears N. 15° E. & S. 15° W.
Set porphyry stone 15 x 8 x 8 ins.
10 ins. in the ground for 1/4
sec. cor. marked 1/4 on W.
face dig pits 18 x 18 x 12 ins.
N. and S. of stone 3 ft. dist.
and raise a mound of earth
3½ ft. base 1½ ft. high N. of
cor.
42.50 Rocky Creek 10 lks. wide 6 ins.
deep, drains N. 15° E.
46.00 Cross creek again drains N. 15° W.
47.00 " " " " N. 15° E.
50.35 " " " " N. 30° W.
51.50 " " " " N. 30° E.
leave creek bottom and begin
gentle ascent over rolling
clay and sand hills.
80.00 Set a granite stone 18 x 8 x 6 ins
12 ins. in the ground for
cor. of secs. 7, 12, 13 & 18 marked
2 notches on N. and 4 notches
on S. edges; dig pits 18 x 18 x 12
ins. in each sec. 5½ ft.
dist. and raise mound
of earth 4 ft. base 2 ft. high
N. of cor.
Land almost level and

West Boundary. T6. S R 18 W.

rolling
Soil sand and clay, 2" and 3" rate
Sand covered with dense undergrowth 80.00 chs.

South bet secs. 13 & 18
Over rolling clay and sand hills through dense shadscale and greasewood undergrowth
40.00 Set a limestone 15 X 8 X 8 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face raise a mound of stone 2 ft base 1 1/2 ft high W. of cor.
Pits impracticable.
Begin ascent of mountain bears N. 45° W. and S. 45° E.
80.00 Set porphyry stone 18 X 8 X 6 ins. 12 ins. in the ground for cor. of secs 13. 18. 19 and 24. marked 3 notches on N and S. edges; raise a mound of stone 2 ft base 1 1/2 ft high W. of cor.
Pits impracticable.
Sand rolling and mountainous.
Soil sand and clay, stony 3" rate.
Sand covered with dense undergrowth or mountainous land 80.00 chs.
June 3. 1904

Boundaries of T. 6 S. R. 18 W.

Latitudes, departures and closing errors.

Lines Designated	True Bear.	Dist.	Lat N.	Lat S.	Dep. E.	Dep. W.
1st Par. S.	West	476.95				476.95
W. bdy. T. 6 S. R. 18 W.	South	240.00		240.00		
S. bdy. secs. 13, 14, 15, 16, 17 and 18	East	477.34			477.34	
E. bdy. T. 6 S. R. 18 W.	North	240.00	240.00			
Convergency						0.30
Totals			240.00	240.00	477.34	477.25
			240.00		477.25	
Error in lat & dep.			0.00		0.09	

For general description see notes of subdivisions.

Alonzo J. Stookey
U. S. Dep. Surveyor.

Note: There being no notary public or other officer authorized to administer oaths within a reasonable distance at the beginning or ending of the survey embraced in this contract, therefore in order to save time and expense, I administer the preliminary and final oaths myself.

Alonzo J. Stookey
U. S. Dep. Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Alonzo J. Stookey, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the East and West Bds. T. 6 S. R. 18 W. of the Salt Lake Base & Meridian Utah showing the respective capacities in which they acted:

John A. Ericksson, *Chainman.*
Lionel J. Stookey, *Chainman.*
, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
Lincoln J. Stookey, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alonzo J. Stookey, United States Deputy Surveyor, in surveying all those parts or portions of the East and West Boundaries of Township 6 South Range 18 West of the Salt Lake Base & meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah

John A. Ericksson, *Chainman.*
Lionel J. Stookey, *Chainman.*
, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
Lincoln A. Stookey, *Flagman.*

Subscribed and sworn to before me this 3" day of June, ~~189~~ 1904

SEAL

Alonzo J. Stookey
U. S. Deputy Surveyor

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alonzo J. Stookey, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for the State of Utah, bearing date of the 12 day of March 1904, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for the State of Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the East & West Boundaries of Township 6 South Range 18 West of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Alonzo J. Stookey
United States Deputy Surveyor.

Subscribed by said Alonzo J. Stookey, and sworn to before me this 24th day of April 1905.

Edward H. Anderson
U. S. Surveyor General
for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, May 19, 1905.

The foregoing field notes of the survey of the East & West Boundaries of Township 6 South Range 18 West of the Salt Lake Base and Meridian, Utah

executed by Alonzo J. Stookey under his contract No. 194, dated March 12, 1904, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward H. Anderson
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in ..... has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-334

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FILED

MAR 18 1905

FIELD NOTES

OF THE SURVEY OF THE

Subdivisions of T6S R18W

Of the Salt Lake Base and Meridian,

Utah

AS SURVEYED BY

Alonzo J Stookey, United States Deputy Surveyor,

Under his Contract No. 284, dated Mar 24 1904, 189

Survey commenced June 4 1904, 189

Survey completed June 6 1904, 189

8—111

high	25 54 19 ✓
low	7 15 50 ✓
Clay	1 60 83 ✓

PRELIMINARY OATHS OF ASSISTANTS.

WE, John A. Erickson and Lionel J. Stookey do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the subdivisions of T. 6 S. R. 18 W. of the Salt Lake Base and Meridian Utah

John A. Erickson, *Chainman.*

Lionel J. Stookey, *Chainman.*

Subscribed and sworn to before me this 2" day of June, 1904

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

WE, ... and .....
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of .....

....., *Moundman.*

....., *Moundman.*

Subscribed and sworn to before me this ..... day of ....., 189

SEAL

WE, ... and .....
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of .....

....., *Axman.*

....., *Axman.*

Subscribed and sworn to before me this ..... day of ....., 189

SEAL

I, Lincoln A. Stookey, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the subdivisions of T. 6 S. R. 18 W. of the Salt Lake Base and Meridian

Lincoln A. Stookey, *Flagman.*

Subscribed and sworn to before me this 2" day of June, 1904

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

6—151

Subdivisions of T. 6 S. R. 18 W.

Survey commenced June 4 1904
for description of transit etc. see
Book "A".
As no part of the southern lots of
this tp. has been established I proceed
to subdivide the northern 3 tiers of
sections as follows: At the st. cor.
of T. 5 S. Rs. 17 & 18 W. which is a granite
stone 6 x 6 x 6 ins. above ground marked
and witnessed as described by the
Surveyor General. I observe Polaris
at eastern elongation at 2h 37m a.m.
l.m.t. in accordance with the in-
structions in the Manual & mark
the line thus determined by a tack
driven into a wooden plug set
in the ground 500 lks. N. of my station.
At 7.30 a.m. I turn of the azimuth
of Polaris 1°34.4' to the west and mark
the meridian thus determined by a
tack driven into a wooden plug
firmly set in the ground west
of the mark established last night;
the magnetic bearing of said true meridian
is N. 17°18' W. which gives the magnetic
declination 17°18' E. From the true meridian
I lay off an angle of 90° from north to
west and run according to instructions.
West along the First St. Par. South over
level desert.
20.00 Enter dense undergrowth bars N. & S.
28.17 Set a porphyry stone 18 x 7 x 7 ins. 12 ins.
in the ground for closing cor. of
secs. 1 & 2 marked C.C. on N. with 1 groove
on E. & 5 grooves on W. faces; dig pits 2 ins.
ins. crosswise on each line E. & W. 3 ft. &
S. of stone 7 ft. dist. & raise mound of
earth 4 ft. base 2 ft. high S. of cor.

From the closing cor. of secs. 1 & 2 as above divided
I turn

Subdivisions of T. 6 S. R. 18 W.

S. 0°01' E. bet. secs. 1 & 2.
Over level land through dense undergrowth
40.00 Set a lava stone 15x8x6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18x18x12 ins. N. & S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
45.00 Leave level land enter rolling sandy land bears N. 30° W. & S. 30° E.
80.00 Set a quartzite stone 15x8x6 ins. 10 ins. in the ground for cor. of secs. 1, 2, 11 & 12 marked with 1 notch on E. & 5 notches on S. edges; dig pits 18x18x12 ins. in each sec. 5½ ft. dist. & raise a mound of earth 4 ft. base 2 ft. high W. of cor.
Sand level and rolling
Soil saline and sand 2" rate
Sand covered with dense undergrowth 80.00 chs.

A flag previously set at the cor. of secs. 1, 6, 7 & 12 being plainly visible
Trun for said cor.
S. 89°59' E. on random line bet. secs. 1 & 12
40.00 Set temp. 1/4 sec. cor.
80.00 Intersect E. bdy. of Tp. at the cor. of secs. 1, 6, 7 & 12 as established by myself and heretofore described
Thence Trun
N. 89°59' W. on true line bet. secs. 1 & 12
Over level desert
40.00 Set a quartzite stone 15x6x6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18x18x12 ins. E. & W. of stone 3 ft. dist. & raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
48.50 Leave level desert and enter gently rolling sandy land & dense greasewood undergrowth, bears N. 30° W. and S. 30° E.

Subdivisions of T. 6 S R 18 W.

80.00 The cov. of secs. 1. 2. 11 and 12.
Sand level and rolling
31.50 Soil sandy and saline 2" rate
48.50 Sand covered with dense
undergrowth 31.50 chs.

S. 0° 1' E. bet. secs. 11 and 12.
Over gently rolling sandy
land through dense grease
wood undergrowth.
14.00 Leave sandy land, enter
level desert, bears N. 60° W.
and S. 60° E.
40.00 Set a porphyry stone 15 x 6 x 6
ins. 10 ins. in the ground
for 1/4 sec. cov. marked 1/4 on
W. face; dig pits 18 x 18 x 12 ins
N. and S. of stone 3 ft. dist.
and raise a mound of earth
3 1/2 ft base 1 1/2 ft. high W. of
cov.
80.00 Set sandstone 18 x 10 x 6 ins.
12 ins. in the ground for
14/66 cov. of secs. 11, 12, 13 and 14
marked with 1 notch on
E. and 4 notches on S. edge;
dig pits 18 x 18 x 12 ins in each
sec. 5 1/2 ft. dist. and raise a
mound of earth 4 ft base 2
ft high W. of cov.
Land gently rolling and level
Soil. sandy and saline 2" rate
Sand covered with dense
undergrowth 14.00 chs.

A flag previously set at the
cov. of secs 7. 12. 13 and 18. being
plainly visible Drum for
said cov.
E. on random line bet. secs
12. and 13.

Subdivisions of T6 S R 18 W.

40.00 Set temp. 1/4 sec. cor.
80.00 Intersect the E. bdy of Tp. at the cor. of secs. 7.12.13 and 18 as established by myself and heretofore described Trence Run
W. on true line bet. secs. 12 and 13.
Over level desert
40.00 Set quartzite stone 15x6x6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18x18x12 ins. E and W. of stone 3 ft dist and raise a mound of earth 3 1/2 ft base 1 1/2 ft high N. of cor.
80.00 The cor. of secs 11, 12, 13 and 14.
Sand. level desert
Soil. saline 2" rate.

S. 0° 1' E. bet secs 13 and 14
Over level desert.
40.00 Set porphyry stone 15x8x6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18x18x12 ins. N and S. of stone 3 ft. dist and raise a mound of earth 3 1/2 ft. base 1 1/2 ft high W. of cor.
80.00 Set porphyry stone 15x10x4 ins 10 ins. in the ground for cor of secs 13, 14, 23 and 24 marked with 1 notch on E. and 3 notches on S edge; dig pits 18x18x12 ins in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
Sand level desert.

Subdivisions of T 6 S R 18 W.

Soil, saline. 2" rate.

A flag previously set at the cor. of secs 13.18.19 and 24 being plainly visible I run for said cor.
E. on random line bet. secs. 13 and 24.
40.00 Set temp. 1/4 sec. cor.
79.98 Intersect E. bdy. of Tp. at cor. of secs 13.18.19 and 24 as established by myself and heretofore described.
Thence I run
N. on true line bet. secs. 13 and 24.
Over level desert
39.99 Set porphyry stone 15 X 6 X 6 ins. 16 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist. and raise a mound of earth 3½ ft base 1½ ft. high N. of cor.
79.98 The cor. of secs. 13, 14, 23 and 24
Sand, level desert
Soil. saline 2" rate.

From the standard cor. of secs 35 and 36 which is a quartzite stone 6 X 10 X 6 ins. above ground marked and witnessed as described by the Surveyor General
Thence I run according to instructions
W. along the First Standard Parallel South
Over almost level land through dense greasewood undergrowth

38.17 Set porphyry stone 18×6×6 ins. 12 ins. in the ground for closing cor. of secs 2 and 3 marked C C on S. with 2 grooves on E. and 4 grooves on W. face; dig pits 24×18×12 ins. crossing on each line E. and W. 3 ft. and S. of stone 7 ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high S. of cor.

From the closing cor. of secs 2 and 3 as above described run
S. 0° 2' E. bet. secs 2 and 3.
Over almost level land, though dense greasewood undergrowth
5.00 Pitch drains N. E.
9.00 Road to Carl John Pengston's bears S. 70° W. and N. 70° E.
40.00 Set a porphyry stone 15×8×6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18×18×12 ins. N. and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
80.00 Set a porphyry stone 15×8×6 ins. 10 ins. in the ground for cor. of secs 2, 3, 10 and 11, marked with 2 notches on E. and 5 notches on S. edge; dig pits 18×18×12 ins. in each sec. 5½ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
Land almost level
Soil sandy 1st and 2nd rate
Land covered with dense undergrowth 80.00 chs.

A flag previously set at the

Subdivisions of T6.S.R18W.

cor. of secs 1.2.11 and 12. being plainly visible. Run for said cor.
S.89°56' E. on random line bet. secs 2 and 11.
40.00 Set temp 1/4 sec. cor.
80.00 Intersect the N. and S. line at the cor. of secs 1.2.11 and 12.
Thence Run
N.89°56' W. on true line bet. secs. 2 and 11.
Over laid gently rolling or level, through dense greasewood undergrowth.
40.00 Set a quartzite stone 15X7X6 ins 10 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18X18X12 ins. E. and W. of stone 3 ft. dist and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
80.00 The cor. of secs 2.3.10 and 11
Land gently rolling and level
Soil, sandy and clay, 2" rate
Land coved with dense under growth 80.00 chs.

S.0°2' E. bet secs. 10 and 11.
Over land almost level or very gently rolling, through dense shadscale or greasewood under growth.
40.00 Set a sandstone 15X8X6 ins 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18X18X12 ins N. and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft high W. of cor.
80.00 Set a quartzite 15X9X8 ins. 10 ins. in the ground for

cor. of secs. 10.11.14 and 15. marked
with 2 notches on E. and 4 notches
on S. edge; dig pits 18 X 18 X 12 ins
in each sec. 5½ ft. dist. and
raise a mound of earth 4 ft.
base 2 ft. high W. of cor.
Land here gently rolling
or level
Soil saline sand and clay, 2nd rate
Land covered with dense under-
growth. 80.00 chs.

A flag previously set at the
cor. of secs. 11.12.13 and 14. being
plainly visible, Run for
said cor.
S. 89° 56' E. on random line bet.
secs 11 and 14
40.00 Set temp. ¼ sec. cor.
80.02 Intersect N. and S. line at cor
of secs 11.12.13 and 14.
Thence Run
N. 89° 56' W. on true line bet.
secs 11 and 14.
Over level desert
40.01 Set quartzite stone 15 X 8 X 6 ins
10 ins. in the ground for ¼
sec. cor. marked ¼ on N. face
dig pits 18 X 18 X 12 ins. E. and W.
of stone 3 ft. dist. and raise a
mound of earth 3½ ft. base
1½ ft. high N. of cor.
75.00 Sedge level desert. bears N. and S.
enter gravelly land and dense
greasewood undergrowth.
80.02 The cor. of secs. 10.11.14 and 15.
Land level and gently rolling
5.02 Soil saline and gravel. 2nd rate
75.00 Land covered with dense
undergrowth 5.02 chs.

Subdivisions of T6 S. R 18 W.

S. 0°2' E. bet secs 14 and 15.
Over gently rolling sandy land
through dense greasewood
and shadscale undergrowth.
40.00 Set a porphyry stone 15 x 9 x 5
ins. 10 ins. in the ground
for 1/4 sec. cor. marked 1/4 on
W. face; dig pits 18 x 18 x 12 ins.
N and S. of stone 3 ft dist. and
raise a mound of earth
3 1/2 ft. base 1 1/2 ft. high W. of
cor.
80.00 Set a porphyry stone 15 x 9 x 8 ins.
10 ins. in the ground for
cor. of secs 14. 15. 22 and 23.
marked with 2 notches on
E. and 3 notches on S. edges;
dig pits 18 x 18 x 12 ins. in each
sec. 5 1/2 ft. dist and raise
a mound of earth 4 ft. base
2 ft. high W. of cor.
Land gently rolling.
Soil, sandy and clay, 2" rate.
Land covered with dense
undergrowth 80.00 chs.

A flag previously set at the
cor. of secs. 13. 14. 23 and 24 being
plainly visible Run for
said cor.
E. on random line bet. secs
14 and 23
40.00 Set temp 1/4 sec. cor.
80.00 Intersect the N and S. line
at the cor. of secs 13. 14. 23 and 24.
Thence Run
N. on true line bet. secs 14
and 23
Over level desert.
40.00 Set a porphyry stone 15 x 6 x 6
ins. 10 ins in the ground

for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 8 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.

67.00 Leave level desert bears N. and S. and enter gently rolling sandy land and dense greasewood and shad-scale undergrowth.

80.00 The cor. of secs 14. 15. 22 and 23 Land level and gently rolling Soil saline and sandy, 2" rate Sand covered with dense undergrowth 13.00 ch.

June 5. Sky overcast. Pol. obs impossible. June 4. 1904

From the standard cor. of secs 34 and 35 which is a limestone 6 X 6 X 5 ins. above ground marked and witnessed as described by the Surveyor General Thence Dunn

W. along the First Standard Parallel South according to instructions Over almost level land, through dense sage brush and greasewood undergrowth.

28.17 Set a sandstone 18 X 6 X 5 ins 12 ins in the ground for closing cor. of secs 3 and 4 marked CC on S. with 3 grooves on E. and 3 grooves on W. faces; dig pits 24 X 18 X 12 ins crosswise on each line, E. and W. 3 ft. and S. of stone 7 ft. dist and raise a mound of earth 4 ft. base 2 ft. high S. of cor.

From the closing cor. of secs

3 and 4 as above described
Run
S. 0°2' E. bet. secs. 3 and 4
Over almost level land through
dense sage brush and grease
wood undergrowth.
22.50 Dry bed of Deep Creek 10 lks
wide 3 ft. deep. drains N. 70° E.
40.00 Set a porphyry stone 15x10x4 ins.
10 ins. in the ground for 1/4
sec. cor. marked 1/4 on W.
face; dig pits 18x18x12 ins.
N. and S. of stone 3 ft. dist.
and raise a mound of
earth 3½ ft base 1½ ft high
W. of cor.
41.75 Road to Carl John Bengston's
bears N. 60° E. and S. 60° W.
80.00 Set a quartzite stone 18x8x8
ins. 12 ins. in the ground
for cor. of secs. 3. 4. 9 and 10.
marked with 3 notches on E.
and 5 notches on S. edges; dig
pits 18x18x12 ins. in each
sec. 5½ ft. dist. and raise
a mound of earth 4 ft. base
2 ft high W. of cor.
Land level almost
Soil sandy. 1st rate
Land covered with dense
undergrowth 80.00 chs.

A flag previously set at the
cor. of secs. 2. 3. 10 and 11 being
plainly visible. Run for
said cor.
S. 89°51' E. on random line bet.
secs. 3 and 10.
40.00 Set temp. 1/4 sec. cor.
80.00 Intersect N. and S. line at the

cor. of secs 2.3.10 and 11
Thence Irun
N. 89°51' W. on true line bet. secs 3 and 10
Over almost level land, through dense greasewood undergrowth
40.00 Set a porphyry stone 15×10×4 ins 10 ins in the ground for 1/4 sec cor. marked 1/4 on N. face, dig pits 18×18×12 ins E. and W. of stone 3 ft dist. and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
80.00 The cor. of secs 3.4.9. and 10
Sand almost level
Soil sandy, 1" and 2" rate
Sand covered with dense undergrowth 80.00 chs.

S. 0°2' E bet. secs. 9 and 10
Over almost level land, through dense greasewood and shadscale undergrowth.
40.00 Set a lime stone 12×8×6 ins 8 ins. in the ground for 1/4 sec cor. marked 1/4 on W face, dig pits 18×18×12 ins. N. and S. of stone 3 ft dist. and raise a mound of earth 3½ ft base 1½ ft high W. of cor.
80.00 Set a lava stone 15×8×6 ins. 10 ins in the ground for cor. of secs 9.10.15 and 16. marked with 3 notches on E. and 4 notches on S. edges; dig pits 18×18×12 ins in each sec 5½ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
Sand almost level
Soil sandy 1" and 2" rate
Sand covered with dense undergrowth 80.c

A flag previously set at the cor. of secs. 10, 11, 14 and 15 being plainly visible. Drum for said cor.
S. 89°55' E. on random line bet. secs. 10 and 15.
40.00 Set temp. 1/4 sec. cor.
79.96 Intersect N. and S. line at the cor. of secs. 10, 11, 14 and 15
Thence Run
N. 89°55' W. on true line bet. secs. 10 and 15
Over almost level or gently rolling land through dense greasewood and shadscale undergrowth.
39.98 Set a lime stone 12×8×6 ins. 8 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18×18×12 ins. E. and W. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft high N. of cor.
79.96 The cor. of secs. 9, 10, 15 and 16
Land gently rolling
Soil, sandy. 2" rain.
Land covered with dense undergrowth 79.96 chs.

S. 0°2' E. bet. secs. 15 and 16
Over gently rolling sandy land, through dense greasewood and shadscale under growth.
40.00 Set a quartzite stone 12×8×6 ins. 8 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18×18×12 ins. N. and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base

Subdivisions of T 6 S R 18 W.

1½ ft high W. of cor.
79.00 Road to Dutch Mountain bears
N. 55° W. and S 55° E.
80.00 Set a porphyry stone 24 x 6 x 6 ins
18 ins. in the ground for cor.
of secs. 15. 16. 21 and 22 marked
16 S. on N. E. and 18 W. on S. E. face
with 3 notches on S. and 3 notches
on E. edge; dig pits 18 x 18 x 12 ins.
in each sec. 5½ ft. dist. and
raise a mound of earth 4
ft. base 1½ ft. high W. of cor.
Land gently rolling
Soil sandy. 2" rain
Land covered with dense
undergrowth 80.00 chs.

A fine brevously set at the
cor. of secs 14. 15. 22 and 23, being
plainly visible & run for
said cor.
E. on random line bet. secs
15 and 22.
40.00 Set temp ¼ sec. cor.
80.02 Intersect the N and S. line at
the cor. of secs. 14. 15. 22 and 23.
Thence Run
W. on true line bet. secs
15 and 22.
over gently rolling land, though
dense greasewood and shadscale
undergrowth.
40.01 Set a porphyry stone 12 x 10 x 5
ins. 8 ins. in the ground for
¼ sec. cor. marked ¼ on N. face
dig pits 18 x 18 x 12 ins. E. and
W. of stone 3 ft. dist. and raise
a mound of earth 3½ ft. base
1½ ft. high N. of cor.
78.50 Road to Dutch Mountain
bears N. 55° W. and S. 55° E.

Subdivisions of T. 6 S R 18 W.

80.02	The cor. of secs 15.16. 21 and 22. Sand gently rolling Soil. sandy. 2: rate Sand covered with dense under-growth 80.02 chs.
	From the standard cor. of secs 33 and 34 which is a quartzite stone 6×8×5 ins. above ground marked and witnessed as described by the Surveyor General Thence Drum as per instructions W along the First Standard Parallel South Over almost level land, through dense grease wood and shadscale undergrowth.
28.17	Set a porphyry stone 18×12×8 ins. 12. ins in the ground for closing cor. of secs 4 and 5 marked C.C. on S with 4 grooves on E. and 2 grooves on W. face; dig pits 24×18×12 ins. crossbise on each line E. and W. 3 ft. dist. and S of stone 7 ft. dist. and raise a mound of earth 4 ft base 2 ft high S. of cor.
	From the closing corner of secs. 4 and 5 as described above Thence Drum S. 0°3' E. bet. secs. 4 and 5 Over almost level land through dense shadscale and greasewood undergrowth.
40.00	Set a porphyry stone 15×8×8 ins 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face;

dig pits 18 X 18 X 12 ins N and S of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

47.95 Fence N. side of Erickson's field bears N. 83° 30' E. and S. 83° 30' W. and bed of creek 10 lks wide, drains N. 75° E.

51.90 Enter almost impenetrable jungle of greasewood sage brush willow and wild rose bears N. 75° E. and S. 75° W.

57.00 Leave jungle, road to Carl John Bengston's, enter cultivated field bear N. 75° E and S. 75° W.

80.00 Set a porphyry stone 15 X 7 X 6 ins. 10 ins in the ground for cor. of secs. 4, 5, 8 and 9 marked 4 notches on E. and 5 notches on S. edge; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

57/23

Sand sloping gently to the E. Soil sandy. 1" rate.

Sand covered with dense undergrowth 57.00 chs.

A flag previously set at the cor. of secs 3, 4, 9 and 10, being plainly visible, Drum for said cor.

E. on random line bet. secs 4 and 9

40.00 Set temp ¼ sec cor.

80.00 Intersect the N. and S. line at the cor. of secs 3, 4, 9 and 10

Thence Drum

N. on true line bet. secs 4 and 9

Over land sloping very gently to the east, through dense grease-

wood and radscale under-
growth
40.01 Set a porphyry stone 15 x 6 x 6 ins 10" in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18 x 18 x 12 ins E. and W. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft high N. of cor.
From the above 1/4 sec. cor. the S. E. cor. of Erickson's field bears N. 82° 30' W. 6.83 chs. dist.
70.80 Fence S. side of Erickson's field bears N. 88° E. and S. 88° W.
enter field
80.02 The cor. of secs 4. 5. 8. and 9
Land sloping very gently to the E.
70.80/9.22 Soil, sandy, 1" rate.
Land covered with dense
undergrowth 70.80

S. 0° 3' E. bet. secs 8 and 9
Over almost level land, though
dense greasewood and shall-
scale undergrowth.
0.50 Fence S. side of Erickson's field
bears N. 88° E and S. 88° W.
40.00 Set a porphyry stone 15 x 6 x 6 ins
10 ins in the ground for 1/4 sec.
cor. marked 1/4 on W. face; dig
pits 18 x 18 x 12 ins. N. and S. of stone
3 ft. dist.
and raise a mound of earth
3½ ft. base 1½ ft high W. of cor
48.15 Road to Dutch Mountain bears
N. 35° W. and S. 35° E.
80.00 Set a porphyry stone 18 x 6 x 6 ins.
12 ins in the ground for cor.
79.50/50 of secs. 8. 9. 16 and 17. marked with
4 notches on E. and 4 notches on
the S. edge; dig pits 18 x 18 x 12 ins
in each sec. 5½ ft. dist. and

raise a mound of earth 4 ft. b.
1 ft. high N. of cor.
Land almost level
Soil sandy 2nd rate
Land covered with dense
undergrowth 79.50 chs.

A flag previously set at
the cor. of secs. 9.10.15 and 16
being plainly visible I run
for said cor.
S. 89° 50' E. on random line bet.
secs. 9 and 16
40.00 Set temp. 1/4 sec. cor.
80.02 Intersect N. and S. line at
the cor. of secs. 9.10.15 and 16
Thence I run
N. 89° 50' W. on true line bet.
secs. 9 and 16
Over almost level land
through dense greasewood
and shadscale undergrowth
40.01 Set a sand stone 12 x 10 x 5 ins.
8 ins. in the ground for
1/4 sec. cor. marked 1/4 on N. face
dig pits 18 x 18 x 12 ins. E and
W. of stone 3 ft. deep and
raise a mound of earth 3½ ft.
base 1½ ft. high N. of cor.
57.00 Road from Dutch mountain bears N. 50° W. and S. 50° E.
80.03 for cor. of secs. 8, 9, 16 and 17.
Land almost level
Soil sandy, 2nd rate
Land covered with dense
undergrowth 80.02 chs.

S. 0° 3' E. bet. secs. 16 and 17.
Over almost level land, through
dense greasewood and shad-
scale undergrowth
40.00 Set a porphyry stone 15 x 10 x 4
ins. 10 ins. in the ground

Subdivisions T6 S R18 W

1/4 sec cor. marked 1/4 on W. face;
18X18X12 ins. N & S. of stone 3 ft
and raise a mound of earth 3 1/2
. base 1 1/2 ft. high W. of cor.
80.0 it a quartzite stone 15X6X6 ins
10. ins in the ground for cor.
16.17.20 & 21 marked 4 notches
3 notches on S. edges; dig pits 18X18X12 ins
in each sec. 5 1/2 ft. dist. and
a mound of earth 4 ft base 2 ft
cor.
nd almost level
oil sandy 2" rate
d covered with dense en 80.

flag previously set at the cor of secs.
15.16.21 & 22 being plainly visible from
said cor.
on random line bet secs 16 & 21.
40.00 it temp 1/4 sec. cor.
80.00 Intersect N. & S line at cor. of secs 15.16.21 & 22
Thence Drum
Vest on true line bet secs 16 & 21
ver almost level land through dense
rearwood and shadscale undergrowt
40.00 it porphyry stone 15X6X6 ins. 10 ins. in
ground for 1/4 sec. cor. marked 1/4
on N. face; dig pits 18X18X12 ins E & W. of
stone 3 ft. dist. and raise a mound
of earth 3 1/2 ft base 1 1/2 ft high N. of cor.
80.00 Th cor. of secs. 16.17.20 & 21.
nd almost level
oil sandy 2" rate
covered with rowth 80

standard cor. of 433 T5 S R18
is a quartzite 6X7X5 ins. above
round marked and witnessed as de-
by the Surveyor General
6.904 at 2h 30m a.m. l.m.t.
Observe Polaris at eastern along

run in accordance with the instructions in the Manual and mark the line thus determined by a tack driven into a wooden plug set in the ground 5.00 chs. N. of my station.
At 7.30 a.m. I turn off the azimuth of Polaris 1°34.4' to the West and mark the meridian thus determined by a tack driven into a wooden plug firmly set in the ground west of the mark established last night. The magnetic bearing of said true meridian is N. 17°18' W. which gives the magnetic declination 17°18' E.
I lay off an angle of 90° from the meridian from South to West and run according to instructions West along the First St. Par. South
Over almost level land through dense shadscale undergrowth.
28.17 Set a porphyry stone 15 x 8 x 6 ins. 10 ins in the ground for closing cor. of secs 5 & 6 marked C.C. on S. with 5 grooves on E. and 1 groove on W. faces; dig pits 24 x 18 x 12 ins. crosswise on each line E. & W. 3 ft. from stone 7 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high S. of cor.

From the closing cor. of secs 5 & 6 as described above
Thence run
S. 0°04' E. bet secs 5 & 6
Over land sloping gently to the South through dense shadscale undergrowth
40.00 Set a porphyry stone 15 x 6 x 6 ins. 10 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face, dig pits 18 x 18 x 12 ins N. and S. of stone 3 ft. dist.

and raise a mound of earth 3½ ft base 1½ ft high W. of cor.
57.00 Road from Ibapah to Erickson's ranch bears N. 85° E. and S. 85° W.
63.20 Deep Creek. 10 lks wide 5 inches deep, drains N. 70° E.
80.00 Set porphyry stone 12×10×8 ins 8 ins in the ground for cor of secs 5, 6, 7 and 8 marked with 5 notches on E. and 5 notches on S. edge; dig pits 18×18×12 ins. in each sec 5½ ft. dist. and raise a mound of earth 4 ft base 2 ft. high W. of cor.
Sand almost level
Soil sandy, 1" rate
Sand covered with dense undergrowth 80.00 chs.

A flag previously set at the cor. of secs 4, 5, 8 and 9 being plainly visible, I run for said cor.
S. 89°50' E. on random line bet. secs 5 and 8
40.00 Set temp ¼ sec cor.
80.00 Intersect N. and S. line at cor. of secs 4, 5, 8 and 9
Thence I run
N. 89°50' W. on true line bet. secs 5 and 8
Over land land sloping gently to the east, through cultivated field
40.00 Set a porphyry stone 12×8×4 ins. 8 ins in the ground in plowed land for ¼ sec. cor. marked ¼ on N. face; dig pits 18×18×12 ins. E. and W. of stone 3 ft. dist. and

raise a mound of earth 3½ ft. base 1½ ft high W. of cor.
From the above described ¼ cor. the S. W. cor. of Erickson's field bears S. 66° W. and Erickson's house from this point bears N. 49° 20' E.

48.30 Fence, west end of field and 3.36 chs. from S.W. cor. bearing of said fence S. 21° E. and N. 21° W.

48.50 Road to Dutch mountain bears N. 21° W. and S. 21° E

80.00 The cor. of secs. 5. 6. 7 and 8.
Sand sloping gently to the E.
3170 Soil sandy 1" rate.
5650 Sand covered with dense under growth 31.70 chs.
From this sec. cor. Ericksons house bears N. 77° 42' E.

A flag previously set at the cor. of secs 1. 6. 7 and 12 being plainly visible I run for said cor. W. on random line bet secs 6 and 7.

40.00 Set temp ¼ sec. cor.

77.12 Intersect the W. bdy of Tp at the cor. of secs. 1. 6. 7. and 12 as established by myself and heretofore described
Thence I run
E. on true line bet. secs 6 and 7.
Over slightly undulating land through dense shadscale and greasewood undergrowth

14.62 Road from Ibapah to Erickson's bears N. 35° E and S. 35° W.

22.12 Deep creek 10 lks wide. 5 ins deep. drains N. 30° E.

Subdivisions of T. 6 S. R. 18 W.

37.12	Set a porphyry stone 15 x 6 x 6 ins. 10 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist and raise a mound of earth 3 1/2 ft base 1 1/2 ft high N. of cor.
42.12	Wash 30 lks wide and 12 ft deep, drains N. 45° E.
77.12	The cor. of secs. 5, 6, 7 and 8. Land almost level and slightly undulating Soil sandy, 1" rate. Land covered with dense undergrowth 77.12 chs.
	S. 0° 4' E. bet. secs 7 and 8 Over land very gently undulating through dense shadscale undergrowth
40.00	Set a porphyry stone 15 x 8 x 5 ins. 10 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft base 1 1/2 ft high W. of cor.
80.00	Set a porphyry stone 15 x 10 x 8 ins. 10 ins in the ground for cor. of secs. 7, 8, 17 and 18. marked 5 notches on E. and 4 notches on S. edge; dig pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land gently undulating Soil sandy 1" 92" rate Land covered with dense undergrowth 80.00

A flag previously set at the cor. of secs. 8.9.16 and 17. being plainly visible I run for said cor.
N. 89°55' E. on random line bet. secs. 8 and 17.
40.00 Set temp. 1/4 sec. cor.
80.01 Intersect N. and S. line at the cor. of secs. 8.9.16 and 17.
Thence I run
S. 89°55' W. on true line bet. secs. 8 and 17.
Over almost level and gently undulating land, through dense shaddscale undergrowth

40.00 Set limestone 15x6x6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18x18x12 ins. E. and W. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
80.01 The cor. of secs. 7.8.17 and 18.
Land level and gently undulating
Soil, sandy 1" and 2" rate
Land covered with dense undergrowth 80.01 chs.

A flag previously set at the cor. of secs. 7.12.13 and 18 being plainly visible I run for said cor.
N. 89°59' W. on random line bet. secs. 7 and 18.
40.00 Set temp. 1/4 sec. cor.
77.20 Intersect the W. bdy. of Tp. at the cor. of secs. 7.12.13 and 18 as established by myself and heretofore described.

Thence Down
S. 89° 59' E. on true line bet.
secs. 7 and 18.
Over land gently undulating
through dense shadscale
undergrowth
37.20 Set a lime stone 15 x 6 x 6 ins.
10 ins. in the ground for 1/4
sec. cor. marked 1/4 on W. face
dig pits 18 x 18 x 12 ins E. and
W. of stone 3 ft. dist. and
raise a mound of earth
3 1/2 ft base 1 1/2 ft high N. of
cor.
77.20 The cor. of secs. 7. 8. 17 and 18
Land gently rolling
Soil, sandy 1st and 2nd rate.
Land covered with dense
undergrowth 77.20 chs.

S. 0° 4' E. bet secs. 17 and 18
Over almost level and gently
undulating land, through
dense shadscale undergrowth.
40.00 Set a porphyry stone 15 x 6 x 6
ins. 10 ins in the ground
for 1/4 sec. cor. marked 1/4 on
W. face; dig pits 18 x 18 x 12 ins.
W. and S. of stone 3 ft. dist. and
raise a mound of earth 3 1/2
ft. base 1 1/2 ft high W. of cor.
80.00 Set a porphyry stone 15 x 6 x 6
ins 10 ins in the ground for
cor. of secs. 17. 18. 19 and 20. marked
with 5 notches on the E. and
3 notches on the S. edge; dig
pits 18 x 18 x 12 ins. in each
sec. 5 1/2 ft. dist and raise a
mound of earth 4 ft. base 2 ft.
high W. of cor.
Land almost level or very

gently rolling
Soil sandy, 1" and 2" rate
Land covered with dense under-
growth 80.00 chs.

A flag previously set at the
cor. of secs. 16, 17, 20 and 21 being
plainly visible. Drum for said
cor.
E. on random line bet. secs.
17 and 20.
40.00 Set temp. 1/4 sec. cor.
79.99 Intersect N. and S. line at the
cor. of secs. 16, 17, 20 and 21.
Thence Drum
N. on true line bet. secs. 17 and 20.
Open land sloping gently to
the E. through dense shad-
scale undergrowth
39.99½ Set a porphyry stone 15×10×4 ins.
10 ins. in the ground for 1/4 sec.
cor. marked 1/4 on N. face; dig
pits 18×18×12 ins. E. and W. of
stone 3 ft. dist. and raise a
mound of earth 3½ ft. base
1½ ft. high N. of cor.
79.99 The cor. of secs. 17, 18, 19 and 20.
Land sloping gently to the E.
Soil sandy, 2" rate
Land covered with dense
undergrowth 79.99 chs.

A flag previously set at
the cor. of secs. 13, 18, 19 and 24
being plainly visible. Drum
for said cor.
West on random line
bet. secs. 18 and 19.
40.00 Set temp. 1/4 sec. cor.
77.35 Intersect W. bly. of Tp. at the
cor. of secs. 13, 18, 19 and 24 as

established by myself and heretofore described.
Thence run
East on true line bet. secs. 18 and 19.
Over mountainous land through dense undergrowth
37.35 Foot of mountain, enter rolling land, bears N. 45° W. and S. 45° E.
Set a porphyry stone 12x8x5 ins. 8 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18x18x12 ins. E. and W. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
77.35 The cor. of secs. 17, 18, 19 and 20
Land mountainous & rolling
Soil clay and sand 2" & 3" rate
Sandy mountainous, covered with dense undergrowth
77.35 chs.

June 6. 1904.

General Description

Excepting the S. W. portion of sec. 18 which is mountainous, the surveyed portion of this township consists of a plain sloping gently to the east or north east until it reaches the edge of the Great American Desert.
Here it merges into a level alkali flat almost destitute of vegetation.
The soil of the desert portion is of a moist sandy

nature, strongly impregnated with salt and alkali; the remainder is mainly a sandy loam, and with irrigation capable of producing abundant crops.

There is no timber of any description in the surveyed portion of this township except a few scattering cedars in the S.W. cor. of sec. 18.

There is no mineral in this township.

John A. Erickson, the only settler in the township resides in sec. 5 and operates a fine farm of about 260 acres, his improvements are worth about $2000.00

Alonzo J. Stookey.
U.S. Dep. Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Alonzo J. Stookey, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the subdivisions of T. 6 S. R. 18 W. of the Salt Lake Base and Meridian, Utah. showing the respective capacities in which they acted:

John A. Erickson, *Chainman.*
Lionel J. Stookey, *Chainman.*
Moundman.
Moundman.
Axman.
Axman.
Lincoln A. Stookey, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alonzo J. Stookey, United States Deputy Surveyor, in surveying all those parts or portions of the subdivisions of T. 6 S. R. 18 W. of the Salt Lake Base & meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

John A. Erickson, *Chainman.*
Lionel J. Stookey, *Chainman.*
Moundman.
Moundman.
Axman.
Axman.
Lincoln A. Stookey, *Flagman.*

Subscribed and sworn to before me this 6 day of June 1904

Alonzo J. Stookey
U.S. Deputy Surveyor

SEAL

6—161

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alonzo J. Stookey, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for the State of Utah, bearing date of the 24th day of March 1904, 189, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for the State of Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivisional lines of Township 6 South Range 18 West of the Salt Lake Base & meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Alonzo J. Stookey
United States Deputy Surveyor.

Subscribed by said Alonzo J. Stookey, and sworn to before me this 24th day of April 1905

Edward H. Anderson
U. S. Surveyor General for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 19, 1905

The foregoing field notes of the survey of the subdivisional lines of Township 6 South Range 18 West of the Salt Lake Base & Meridian, Utah

executed by Alonzo J. Stookey under his contract No. 284, dated March 24 1904, 189, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward H. Anderson
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in ....., has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-334

C.

FIELD NOTES

OF THE RE SURVEY OF THE

SOUTH BOUNDARY

OF

TOWNSHIP NO. 4 SOUTH

RANGE NO. 5 WEST

Of the SALT LAKE BASE AND *Meridian,*

UTAH

AS SURVEYED BY

Alonzo J. Stookey, *United States Deputy Surveyor,*

Under his Contract No. 284, *dated* March 24, *190*4.

Survey commenced October 8, *190*5.

Survey completed October 9, *190*5.

6—151

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Resur. S. Bdy — 0 - 68 - 86 — 0 - 07.39

0 - 76 - 25

BOOK A-334

NAMES AND DUTIES OF ASSISTANTS.

Lionel J.Stookey,	Chainman.
J.W.Russell,	Chainman.
J.W.Russell	Moundman.
Lincoln A.Stookey,	Flagman.

BOOK A-334

INDEX DIAGRAM.

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Meanders Page

6—101

PRELIMINARY OATHS OF ASSISTANTS.

We, Lionel J. Stookey and J. W. Russell do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the resurvey of the S. bdy of T4S R5W bet secs 2 & 35 Salt Lake Base and Meridian Utah

Lionel J. Stookey, Chainman.
J. W. Russell, Chainman.

Subscribed and sworn to before me this 8th day of Oct 1905, 189

Alonzo J. Stookey
U.S. Deputy Surveyor

SEAL

We, J. W. Russell and ____ do solemnly swear that ~~we~~ I will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us~~ me to the best of ~~our~~ my skill and ability, in the resurvey of the S. bdy of T4S R5W bet secs 2 & 35 Salt Lake Base and Meridian Utah

J. W. Russell, Moundman.
____, Moundman.

Subscribed and sworn to before me this 8th day of Oct 1905, 189

Alonzo J. Stookey
U.S. Deputy Surveyor

SEAL

We, ____ and ____ do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of ____

____, Axman.
____, Axman.

Subscribed and sworn to before me this ____ day of ____, 189

SEAL

I, Lincoln A. Stookey, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the resurvey of the S. bdy of T4S R5W bet secs 2 & 35 Salt Lake Base and Meridian Utah

Lincoln A. Stookey, Flagman.

Subscribed and sworn to before me this 8th day of Oct 1905, 189

Alonzo J. Stookey
U.S. Deputy Surveyor

SEAL

8—19

RESURVEY OF SOUTH BOUNDARY OF T. 4 S., R. 5 W.

Chains	
	Resurvey commenced October 8, 1905, and executed with the instrument described in book "A" of this survey.
	All traces of the meander cor.bet.secs.2 and 35 being entirely obliterated I proceed to re-establish it as follows:
	The original position of the ¼ sec.cor.bet.secs.2 and 35 being also uncertain, I begin at the cor.of secs. 1,2,35, and 36 on S.bdy.of Tp., which is a cobble-stone 8x8x6 ins.above ground, marked and witnessed as described by the surveyor general. Latitude 40° 25'N.; long.112° 22'W.
	At 6 h. 22m p.m.l.m.t.I observe Polaris at eastern elongation in accordance with instructions in the Manual, and mark the line thus determined by a tack driven in the ground 5 chs.N.of my station.
	Oct.8, 1905.
	Oct.9: At 7 h.30 m.a.m.I lay off the azimuth of Polaris 1° 34' to the west and mark the true meridian thus determined by a tack driven in a wooden plug firmly set in the ground west of the point established last night.
	The magnetic bearing of said true meridian is N.17° 10' W., which gives the mag. decl.N.17° 10'E.
	From this point I lay off an angle of 90° from north to west and run
	West on true resurvey line bet.secs.2 and 35,
	Over gently rolling bench land, through dense sage-brush undergrowth.
12.00	Begin descent bears N.45° E. and S.45°W.
15.00	Foot of descent bears N.45° E. and S.45°W.
17.50	Intersect cobblestone 10x8x6 ins.above ground, marked and witnessed as described by the surveyor general, on W.bdy.old Rush Valley Military Reservation.

RESURVEY OF SOUTH BOUNDARY OF T. 4 S., R. 5 W.

Chains.

22.76 Road bears N.55°W. and S.55°E.

40.00 After diligent search no definite trace of old ¼ sec. cor. could be found;

Set a quartzite stone 15x7x6 ins., 10 ins. in the ground for ¼ sec.cor., marked ¼ on N.face; raise a mound of stone 2 ft.base, 1½ ft.high N.of cor.

61.25 County road bears N.15° E. and S. 15° W.

62.00 Telephone line bears N. 15° E. and S. 15° W.

68.86 Railway fence bears N. 15° E. and S. 15° W.Leave sagebrush.

69.80 San Pedro, Los Angeles and Salt Lake R.R. bears N. 15° E. and S. 15° W.

72.00 Railway fence bears N. 15° E. and S. 15° W.

Enter level meadow owned by A.N.Young.

76.25 Set a pine post 3 ft.long, 4 ins.square with marked stone, 24 ins.in the ground, for meander cor.of frac. secs.2 and 35, marked

M C on W.

R 5 W on E.

T 4 S S 35 on N.

T 5 S S 2 on S.face; dig pit 36x36x12 ins.8 ft. E.of post and raise a mound of earth 4 ft.base, 2 ft. high E.of cor.

68.86/7.39

Land rolling and level.

Soil gravel and saline, 2d rate.

No timber.

Dense sagebrush undergrowth on 68.86 chs.

Alonzo J. Stookey

Oct.9, 1905. U.S.Deputy Surveyor.

For general description see notes of subdivision of this township.

Alonzo J. Stookey

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Alonzo J. Stookey, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the S. bdy T 4 S R 5 W bet secs 2 & 35 Salt Lake Base and Meridian Utah showing the respective capacities in which they acted:

Lionel J. Stookey, *Chainman.*
J. W. Russell, *Chainman.*
J. W. Russell, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
Lincoln A. Stookey, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alonzo J. Stookey, United States Deputy Surveyor, in surveying all those parts or portions of the S. bdy of T 4 S R 5 W bet secs 2 & 35 of the Salt Lake Base & meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Lionel J. Stookey, *Chainman.*
J. W. Russell, *Chainman.*
J. W. Russell, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
Lincoln A. Stookey, *Flagman.*

Subscribed and sworn to before me this 9 day of Oct. 1905, 189

Alonzo J. Stookey
U.S. Deputy Surveyor

SEAL

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alonzo J. Stookey, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the 24 day of March 1904, 189 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, re surveyed all those parts or portions of the South boundary of T 4 S R 5 W

of the Salt Lake Base & meridian, in the State of Utah which are represented in the foregoing field notes as having been re surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said re survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such re survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Alonzo J. Stookey
United States Deputy Surveyor.

Subscribed by said Alonzo J. Stookey and sworn to before me this 15th day of June 1906, 189

Thomas Hull
U.S. Surveyor General
for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, January 23, 1907.

The foregoing field notes of the re survey of the South Boundary of Township No.4 South, Range No.5 West of the Salt Lake Base and Meridian, Utah

executed by Alonzo J. Stookey under his contract No. 284, dated March 24, 1904, 189 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the re surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in ....., has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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Filed Nov.4, 1905.

BOOK A-334

D.

FIELD NOTES

OF THE SURVEY OF THE

SOUTH BOUNDARY

OF

TOWNSHIP NO.4 SOUTH

RANGE NO.5 WEST

Of the SALT LAKE BASE AND *Meridian,*

U T A H

AS SURVEYED BY

Alonzo J.Stookey, *United States Deputy Surveyor,*

Under his Contract No. 284, *dated* March 24, *190* 5.

Survey commenced October 9, *190* 5

Survey completed October 10, *190* 5.

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Lord

S. Bdy. 1-45-37 ✓

NAMES AND DUTIES OF ASSISTANTS.

Lionel J.Stookey	Chainman.
J.W.Russell	Chainman.
J.W.Russell	Moundman.
Lincoln A.Stookey	Flagman.

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INDEX DIAGRAM.

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Meanders Page

6—151

PRELIMINARY OATHS OF ASSISTANTS.

We, Lionel J. Stookey and J. W. Russell do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the S. bdy. of T. 4 S. R. 5 W. Salt Lake Base and Meridian Utah

Lionel J. Stookey Chainman.
J. W. Russell Chainman.

Subscribed and sworn to before me this 9 day of Oct. 1905, 189

Alonzo J. Stookey
U. S. Deputy Surveyor

SEAL

We, J. W. Russell and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the S. bdy. of T. 4 S. R. 5 W. Salt Lake Base and Meridian Utah

J. W. Russell Moundman.
Moundman.

Subscribed and sworn to before me this 9 day of Oct. 1905, 189

Alonzo J. Stookey
U. S. Deputy Surveyor

SEAL

We, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

Axman.
Axman.

Subscribed and sworn to before me this
day of, 189

SEAL

I, Lincoln L. Stookey, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the S. bdy. of T. 4 S. R. 5 W. Salt Lake Base and Meridian Utah

Lincoln L. Stookey Flagman.

Subscribed and sworn to before me this 9 day of Oct. 1905, 189

Alonzo J. Stookey
U. S. Deputy Surveyor

SEAL

6—161

Chains. Survey commenced Oct.9, 1905, and executed with the instrument described in book "A" of this survey.

At the meander cor. bet.secs.4 and 33 on S.bdy.of Tp. which is a post 4 ins.square, marked and witnessed as described by the surveyor general, Lat.40°25'N. long.112° 25'W, I observe Polaris at 6h 18 m.p.m. l.m. t.at eastern elongation in accordance with instructions in the Manual, and mark a point in the line thus determined by a tack driven into a wooden plug set in the ground 5.00 chs.N.of my station.

Oct.10: At 7:30 a.m.l.m.t.I lay off the azimuth of Polaris 1° 34' to the west, and mark the true meridian thus determined by a tack driven into a wooden plug firmly set in the ground west of the point, established last night.

The magnetic bearing of said true meridian is N.17°10' W., which gives the magnetic declination N.17° 10'E.

From this point, which is 39.00 chs.E. of cor.of secs. 4,5,32, and 33, I lay off an angle of 90° from north to east and run

East on true line bet.secs.4 and 33,

Over level meadow land.

1.00 Set a sandstone 18x8x4 ins., 12 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x12 ins.E. and W.of stone 3 ft.dist.,and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.

13.90 M.A.Holt's fence bears N.48° 30'E. and S.48° 30'W.

16.00 Road bears N.45° E. and S.45°W. ,St.John to Stockton.

33.50 Road bears N. 45° E. and S. 45°W. ,St.John to Stockton.

41.00 Set temp.cor.for secs.3,4,33 and 34.

From temp. cor.just established I run

North on random line bet.secs.33 and 34,

53.80 Fall 13 lks.E.of the meander cor.bet.secs. 33 and 34.

The falling being within limits I established the temp.

South Boundary T. 4 S., R. 5 W.

Chains. cor.of secs.3,4,33 and 34 as a permanent cor.by
Setting a sandstone 18x9x6 ins., 12 ins.in the ground for cor.of secs. 3,4,33 and 34, marked with 3 notches on the E. and W.edges; dig pits 18x18x12 ins. in each sec.5½ ft.dist., and raise a mound of earth 4 ft.base 2 ft.high W.of cor.
Land level.
Soil saline, 2d rate.
No timber.

From the meander cor.bet.secs.2 and 35, as re-established by me and heretofore described I run
West on true line bet.secs. 2 and 35,
Over level meadow.
3.75 Set a sandstone 18x9x5 ins., 12 ins.in the ground,for cor.of secs.2,3,34 and 35, marked with 2 notches on the east and 4 notches on the W.edges; dig pits 18x 18x12 ins. in each sec.5½ ft. dist., and raise a mound of earth 4 ft. base, 2 ft.high W.of cor.
Land level.
Soil saline 1st rate.
No timber.

From the cor.of secs.2,3,34 and 35, a flag previously set at the cor.of secs.3,4,33 and 34 being plainly visible, I run for said cor.
S.86° 35'W. on random line bet.secs.3 and 34,
40.00 Set temp.¼ sec.cor.
80.62 Intersect W. and S.line at the cor.of secs.3,4,33 and 34. Thence I run
N.86° 35'E.on true line bet.secs.3 and 34,
Over level land.
40.31 Set a quartzite stone 18x6x5 ins., 12 ins.in the ground

South Boundary of T. 4 S., R. 5 W.

Chains.	
	for ¼ sec.cor., marked ¼ on N.face; dig pits 18x18x 12 ins.E. and W.of stone 3 ft.dist., and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.
45.82	A.N.Young's west fence bears S.4°15'W.and N.4° 15'E. At a point S.4°15'W.10.00 chs.dist.from this point the fence turns and runs S.10°E. and N.4°15'E. 4.15 chs. From same point fence turns and runs N.33° 45'E.
80.62	The cor.of secs.2,3,34, and 35.
	Land level
	Soil saline 1st and 2d rate,
	No timber.

October 10, 1905.

Alonzo J. Stookey

U.S.Deputy Surveyor.

For general description see notes of subdivision of this township.

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PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Alonzo J. Stookey, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the S bdy of T 4 S R 5 W. Salt Lake Base and Meridian Utah showing the respective capacities in which they acted:

Lionel J. Stookey, *Chainman.*
J. W. Russell, *Chainman.*
J. W. Russell, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
Lincoln A. Stookey, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alonzo J. Stookey, United States Deputy Surveyor, in surveying all those parts or portions of the S. bdy of T 4 S. R 5 W. of the Salt Lake Base & meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah

Lionel J. Stookey, *Chainman.*
J. W. Russell, *Chainman.*
J. W. Russell, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
Lincoln A. Stookey, *Flagman.*

Subscribed and sworn to before me this 10 day of Oct 1905, 189

Alonzo J. Stookey
U.S. Deputy Surveyor

SEAL

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alonzo J. Stookey, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the 24 day of March 1904, 189 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the South boundary of T. 4 S. R. 5 W. of the Salt Lake Base & Meridian, in the State of Utah which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Alonzo J. Stookey
United States Deputy Surveyor.

Subscribed by said Alonzo J. Stookey, and sworn to before me this 15th day of June 1906, 189

Thomas Hull
U.S. Surveyor General
for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, January 23, 1907.

The foregoing field notes of the survey of the South Boundary of Township No. 4 South, Range No. 5 West of the Salt Lake Base and Meridian, Utah,

executed by Alonzo J. Stookey
under his contract No. 284, dated March 24, 1904, ~~189~~ XXX, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in , has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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Filed Nov.4, 1905.

4—679.

BOOK A-334
E.

FIELD NOTES

OF THE SURVEY OF THE

RESURVEY AND RETRACEMENT

O F

S U B D I V I S I O N

O F

TOWNSHIP NO. 4 SOUTH

RANGE NO. 5 WEST

Of the SALT LAKE BASE AND *Meridian,*

U T A H,

AS SURVEYED BY

Alonzo J. Stookey, *United States Deputy Surveyor,*

Under his Contract No. 284, *dated* March 24, *190* 4.

Survey commenced October 10, *190* 5.

tracement
Survey completed October 13, *190* 5.

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Resur. Subs. 0-71-06 Retr. Subs. 8-60-30

1 003 1-334

NAMES AND DUTIES OF ASSISTANTS.

Lionel J.Stookey	Chainman.
J.W.Russell,	Chainman.
J.W.Russell	Moundman.
Lincoln A.Stookey,	Flagman.

BOOK A-334

INDEX DIAGRAM.

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Meanders Page

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PRELIMINARY OATHS OF ASSISTANTS.

We, Lionel J. Stookey and J. W. Russell do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally-pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of retracements of subdivisions T. 4 S. R. 5 W. Salt Lake Base and Meridian Utah.

Lionel J. Stookey, Chainman.

J. W. Russell, Chainman.

Subscribed and sworn to before me this 10 day of Oct. 1905, 189

SEAL

Alonzo J. Stookey
U. S. Deputy Surveyor

I, J. W. Russell and do solemnly swear that I will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given me, to the best of my skill and ability, in the survey and retracements of subdivisions T. 4 S. R. 5 W. Salt Lake Base and Meridian Utah

J. W. Russell, Moundman.

..., Moundman.

Subscribed and sworn to before me this 10 day of Oct. 1905, 189

SEAL

Alonzo J. Stookey
U. S. Deputy Surveyor

We, ... and ... do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

..., Axman.

..., Axman.

Subscribed and sworn to before me this ..., 189

SEAL

I, Lincoln C. Stookey, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey and retracements of subdivisions T. 4 S. R. 5 W. Salt Lake Base and Meridian Utah.

Lincoln C. Stookey, Flagman.

Subscribed and sworn to before me this 10 day of Oct. 1905, 189

SEAL

Alonzo J. Stookey
U. S. Deputy Surveyor

6—14

Resurvey of Subdivision of T. 4 S., R. 5 W.

Chains	
	Not being able to find any trace of the meander cor. bet. secs.27 and 34, I proceed as follows to re-establish it:
	Resurvey commenced Oct.10, 1905, and executed with the instrument described in book "A" of this survey.
	I begin at the ¼ sec.cor.bet.secs.27 and 34, which is a sandstone 8x8x6 ins.above ground, marked and witnessed as described by the surveyor general, and run East on true resurvey line bet.secs.27 and 34,
	Over level land, through dense sage and rabbit brush.
5.76	Road bears N.50°E. and S.50°W. St.John to Stockton.
15.59	Road bears N.35°E. and S.35°W. St.John to Stockton.
16.00	Set a limestone 18x6x5 ins., 12 ins. in the ground, for meander cor.for fractional secs.27 and 34, marked M C on E.face, with 1 groove on S.face; dig pit 36 x36x12 ins.8 ft.W.of stone, and raisea mound of earth 4 ft.base, 2 ft.high W.of cor.
	Land level.
	Soil sandy, 1st and 2d rate.
	No timber.
	Land covered with dense undergrowth of sage and rabbit brush 16.00 chs.

	Not being able to find any trace of the meander cor. bet.secs.26 and 27, I proceed as follows to re-establish it:
	I begin at the cor.of secs.22,23,26, and 27, which is a limestone 10x10x6 ins.above ground, marked and witnessed as described by the surveyor general and run South on true resurvey line bet.secs.26 and 27,
	Over mountainous land, through dense sagebrush.
11.00	Begin steep descent bears E. and W.
17.00	Foot of steep descent bears N.55°E. and S. 55°W.
18.70	Old road bears N.15° E. and S.15°W.

Resurvey of Subdivision of T. 4 S., R. 5 W.

Chains.	
22.47	Road to Stockton bears N.40° E. and S.40° W.
74.73	Road to Stockton bears N.35° E. and S.35° W.; these last two roads join about 8.00 chs.N.E.from this point.
38.00	Set a quartzite stone 18x10x5 ins., 12 ins.in the ground for meander cor.of fracl.secs.26 and 27, marked M C on S.face, with 2 grooves on E.face, and raise a mound of stone 2 ft.base, 1½ ft.high N.of cor.Pits impracticable.
	Land mountainous and level.
	Soil stony and sandy, 2nd rate.
	No timber.
	Mountainous land or land covered with dense undergrowth 38.00 chs.

Not being able to find any trace of either of the meander cors.between secs.23 and 26 I proceed as follows to re-establish them:

From the cor.of secs.22,23,26 and 27, heretofore described I run

East on true resurvey line bet.secs.23 and 26,

Over mountainous land, through dense sagebrush; descending.

7.00	Old road bears N.30°E. and S.30°W.
9.06	Leave dense undergrowth bears N. and S.
	Set a limestone 18x10x6 ins.,12 ins.in the ground for meander cor.of fracl.secs.23 and 26, marked M C, on E.face, with 2 grooves on S.face, and raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
	Land mountainous.
	Soil stony 3rd rate.
	No timber.
	Land covered with dense sagebrush 9.06 chs.

Resurvey of Subdivision of T. 4 S., R. 5 W.

Chains. From the ¼ sec.cor.bet.secs.23 and 26, which is a cobblestone 6x6x6 ins.above ground, marked and witnessed as described by the surveyor general, I run

West on true resurvey line bet.secs.23 and 26,

Over level land, through dense rabbit brush.

North line of Wilson's field fence bearing almost east and west, 15 lks.N.of this point.

1.00 NW.cor.of field bears N.15 lks.dist.

1.94 West fence bears N. 45° E. and S. 45°W.

4.04 Road bears N.45° E. and S.45°W. St.John to Stockton.

8.00 Set a quartzite stone 18x6x5 ins.,12 ins.in the ground for meander cor.of fracl.secs.23 and 26, marked M C on W.face, with 2 grooves on S.face; dig pit 36x36x 12 ins.S ft.E.of stone, and raise a mound of earth 4 ft.base, 2 ft.high E.of cor.

Land level.

Soil sandy loam, 1st rate.

No timber.

Undergrowth rabbit brush.

Land covered with dense undergrowth 8.00 chs.

Alonzo J. Stookey
U.S.Deputy Surveyor.

Oct.10, 1905.

For general description see notes of subdivision of this township.

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Retracement of Subdivision of T. 4 S., R. 5 W.

Chains	
	Section 35 not closing within limits, I proceed as follows:
	October 13, 1905, I begin at the cor.of secs.1,2,35, and 36 on S.bdy.of the Tp., heretofore described, and run
	North bet.secs.35 and 36,
79.70	Intersect the cor.of secs.25,26,35, and 36, which is a cobblestone 6x12x6 ins.above ground, marked and witnessed as described by the surveyor general.
	Thence I run
	West between secs.26 and 35,
61.61	Fall 59 lks.N.of the meander cor.bet.secs.26 and 35, heretofore described.
	The course of this line is therefore S.89° 27'W. and distance 61.61 chs.
	I then begin at the cor.of secs.27,28,33, and 34, heretofore described, and run
	East on retracement line bet.secs.27 and 34,
39.90	Fall 10 lks.N.of the ¼ sec.cor.bet.secs.27 and 34, heretofore described.
	The course of this line is therefore S.89° 51'E.and the distance 39.90 chs.
	Section 33 also fails to close within limits; therefore I begin at the cor.of secs.4,5.32, and 33 on S.bdy. of Tp., which is a sandstone 5x8x6 ins.above ground, marked and witnessed as described by the surveyor general, and run
	North bet.secs.32 and 33,
80.35	Fall 23 lks.E.of the cor.of secs.28,29,32, and 33,which is a sandstone 6x12x4 ins.above ground, marked and witnessed as described by the surveyor general.

Chains.	
	The course of this line is therefore N.0° 10'W. and distance 80.35 chs.
	Thence I run East between secs.28 and 33,
79.93	Fall 1.91 chs.S.of the corner of secs.27,28,33, and 34 heretofore described. The course of this line is therefore N.88° 38'E. and distance 79.95 chs.
	Sec.27 also fails to close within limits, I therefore begin at the cor.of secs.27,28,33, and 34, heretofore described and run North on retracement line bet.secs.27 and 28,
40.00	Intersect the E. and W.line 1.09 chs.E.of the ¼ sec. cor., which is a sandstone 5x18x4 ins. , above ground marked and witnessed as described by the surveyor general.
80.00	Intersect the E. and W.line 1.09 chs.E.of the cor.of secs.21,22,27, and 28, which is a sandstone 3x10x4 ins.above ground, marked and witnessed as described by the surveyor general. The course of this line would therefore be N.1°-34'W. from the cor.of secs.27,28,33, and 34 to the ¼ sec. cor.bet.secs.27 and 28, and from the above named ¼ cor.to the cor.of secs.21,22,27, and 28, the course would be north while the length of each course is 40.00 chs.

Retracement of Subdivision of T. 4 S., R. 5 W.

Chains	
	Section 26 also failing to close within limits, I begin at the ¼ sec.cor.bet.secs.23 and 26, heretofore described and run
	East bet.secs.23 and 26,
39.79	Intersect N. and S.line 36 lks.south of the cor.of secs.23,24,25 and 26, which is a granite stone 6x24 x5 ins.above ground, marked and witnessed as described by the surveyor general.
	The course of this line is therefore N.89° 25'E. and distance 39.79 chs.
	Thence I run
	South bet.secs. 25 and 26,
80.00	Fall 75 lks.W.of the cor.of secs.25,26,35, and 36, heretofore described.
	The course of this line is therefore N.0° 72'W. and distance 80.00 chs.
	Section 23 does not close within limits, I therefore begin at the cor.of secs.23,24,25, and 26, heretofore described and run
	North bet.secs.23 and 24,
39.00	Fall 6 lks.E.of the ¼ sec.cor., which is a cobblestone 4x12x6 ins.above ground, marked and witnessed as described by the surveyor general.
78.85	Intersect the E. and W.line 12 lks.E.of the cor.of secs. 13,14,23, and 24, which is a sandstone 4x8x6 ins.above ground, marked and witnessed as described by the surveyor general.
	The course of this line is therefore N.0°05'W., and the distance 78.85 chs.

Retracement of Subdivision of T. 4 S., R. 5 W.

Chains.	
	Thence
	West bet.secs.14 and 23,
80.15	Fall 23 lks.N.of cor.of secs.14,15,22, and 23, which is a cobble stone 4x9x4 ins.above ground, marked and witnessed as described by the surveyor general. The course of this line is therefore S.89° 50'W. and distance 80.15 chs. October 13, 1905.
	For general description see notes of subdivision of this township. U.S. Deputy Surveyor.
	Alonzo J. Stookey U.S.Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Alonzo J. Stookey, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the re survey ~~of~~ and retracements of subdivisions T 4 S R 5 W Salt Lake Base and Meridian Utah showing the respective capacities in which they acted:

Lionel J. Stookey, Chainman.
J. W. Russell, Chainman.
J. W. Russell, Moundman.
, Moundman.
, Axman.
, Axman.
Lincoln A. Stookey, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alonzo J. Stookey, United States Deputy Surveyor, in retracing and re-surveying all those parts or portions of the of subdivisions of T 4 S R 5 W of the Salt Lake Base meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah

Lionel J. Stookey, Chainman.
J. W. Russell, Chainman.
J. W. Russell, Moundman.
, Moundman.
, Axman.
, Axman.
Lincoln A. Stookey, Flagman.

Subscribed and sworn to before me this 13th day of Oct 1905, 189

SEAL

Alonzo J. Stookey
U. S. Deputy Surveyor

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alonzo J. Stookey, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Edward H. Dodge, United States Surveyor General for Utah, bearing date of 24 day of March 1904, 189 , I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, re-surveyed and retraced all those parts or portions of subdivisions of T 4 S R 5 W

of the Salt Lake Base & meridian, in the State of Utah, which are represented in the foregoing field notes as having been retraced and re-surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said retracement and re-survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such retracement and resurvey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Alonzo J. Stookey
United States Deputy Surveyor.

Subscribed by said Alonzo J. Stookey and sworn to before me this 15th day of June 1906, 189

Thomas Hull
Ex. S. Surveyor General for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, January 21, 1

The foregoing field notes of the survey of resurvey and retracement of subdivisional lines in Township No. 4 South, Range No. 5 West of the Salt Lake Base and Meridian, Utah,

executed by Alonzo J. Stookey under his contract No. 284, dated March 24, 1904, 189 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the resurveys and retracements surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in ....., has been correctly copied from the original notes on file in this office.

United States Surveyor General

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Filed Nov.4. 1905.

BOOK A-334
F.

FIELD NOTES

OF THE SURVEY OF THE

H.J.B.

SUBDIVISION

OF

TOWNSHIP No. 4 SOUTH

RANGE NO.5 WEST

Of the SALT LAKE BASE AND *Meridian,*

UTAH.

AS SURVEYED BY

Alonzo J.Stookey, *United States Deputy Surveyor,*

Under his Contract No. 284, *dated* March 24, *190* 4.

Survey commenced October 10, *190* 5

Survey completed October 11, *190* 5.

6—151

Subs. 2 - 76 - 79 0.04.80 Clearing [illegible]
3-01-59 0 - 02 - 74 ✓

Retr. 0 - 28 - 41 ✓
3.35.20

NAMES AND DUTIES OF ASSISTANTS.

Lionel J.Stookey	Chainman.
J.W.Russell	Chainman.
J.W.Russell	Moundman.
Lincoln A.Stookey	Flagman.

BOOK A-334

INDEX DIAGRAM.

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Lionel J. Stookey and J. W. Russell do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the subdivisions of T4S R5W Salt Lake Base and Meridian Utah

Lionel J. Stookey, *Chainman.*

J. W. Russell, *Chainman.*

Subscribed and sworn to before me this 10 day of Oct. 1905, 189

Alonzo J. Stookey
U.S. Deputy Surveyor

SEAL

WE, J. W. Russell and ..... do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the subdivisions of T4S R5W Salt Lake Base and Meridian Utah

J. W. Russell, *Moundman.*

....., *Moundman.*

Subscribed and sworn to before me this 10 day of Oct. 1905, 189

Alonzo J. Stookey
U.S. Deputy Surveyor

SEAL

WE, ... and ..... do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of .....

....., *Axman.*

....., *Axman.*

Subscribed and sworn to before me this ..... day of ....., 189

SEAL

I, Lincoln A. Stookey, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the subdivisions of T4S R5W S.

Lincoln A. Stookey *Flagman.*

Subscribed and sworn to before me this 10 day of Oct. 1905, 189

Alonzo J. Stookey
U.S. Deputy Surveyor

SEAL

6—151

Subdivision of T. 4 S., R. 5 W.

Chains.	
	From the meander cor.bet.secs.23 and 26, as re-established by me and heretofore described, which is 8 chs.W.of the ¼ sec.cor. bet.secs. 23 and 26, I run
	S.87° 15'W. for a flag previously set at the meander cor. bet.secs. 23 and 26, which is 9.06 chs.E.of the cor. of secs.22,23,26, and 27
	Over level land, through dense rabbit brush undergrowth.
4.80	Leave dense undergrowth, bears N. and S.
20.84	Road bears N.28°E. and S.28°W., to Stockton.
23.74	Intersect meander cor.bet.secs. 23 and 26, as re-established by myself and heretofore described.
	Land level.
	Soil sandy and saline, 2d rate.
	No timber; undergrowth rabbit brush.
	Land covered with dense undergrowth 4.80 chs.
	Oct. 10, 1905.
	Oct.11, 1905. From the cor.of secs.3,4,33 and 34 on S. bdy.of Tp. as established by me and heretofore described I run
	N.0°08'W. on random line for the meander cor.bet.secs. 33 and 34, which is plainly visible,
40.00	Set temp.¼ sec.cor.
53.80	Intersect the meander cor.bet.secs.33 and 34, which is a square stake, marked and witnessed as described by the surveyor general.
	As my instructions state that the ¼ sec.cor.must be set 40.00 chs.S.from the corner of secs. 27,28,33, and 34, I deem it necessary to retrace the old line bet. secs.33 and 34. Therefore, from the meander cor.bet. secs. 33 and 34 I run
	North on retracement line bet.secs.33 and 34
28.41	Fall 26 lks. E.of the cor.of secs.27,28,33, and 34,

Subdivision of T. 4 S., R. 5 W.

Chains.	
	of earth 3½ ft.base, 1½ ft.high W.of cor.
50.07	Leave B.Y.Hampton's field fence bearing N.85° 45'E. and S.85° 45'W.;
	Enter A.N.Young's field.
78.80	The cor.of secs.2,3,34, and 35.
	Land level.
	Soil saline 2d rate.
	No timber.
	From cor.of secs. 26,27,34, and 35, I run West on random line bet.secs.27 and 34.
24.98	Fall 84 lks.N.of meander cor.bet.secs.27 and 34, heretofore described.
	The calling being above the allowable limit, I abandon my random line, and begin at the meander cor.and run East on true line bet.secs.27 and 34.
	Over level land.
6.50	Road bears N.30°E. and S.30°W., St.John to Stockton.
24.98	Intersect N. and S.line 84 lks.S.of the cor.of secs. 26,27,34, and 35,
	Set a sandstone 18x6x6 ins., 12 ins.in the ground for closing cor.of secs.27,and 34, marked C C on W., 1 groove on S. and 3 grooves on E.face; dig pits 24x18 x12 ins.crosswise on each line N. and S.3 ft.and W. of stone 7 ft.dist., and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.
	I obliterate from the cor.of secs.26,27,34, and 35 all marks pertaining to secs.27 and 34.
	Land level.
	Soil sandy and saline 2d rate.
	No timber.

Subdivision of T. 4 S., R. 5 W.

Chains.	
	From cor.of secs. 26 and 35, I run
	North on random line bet.secs.26 and 27.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
41.43	Fall 1.90 chs.E.of the meander cor.bet.secs.26 and 27 heretofore described.
	The falling being beyond the allowable limit, I abandon my random line, and, beginning at the meander cor., I run
	South on true line bet.secs.26 and 27,
	Over level land.
1.43	Set a quartzite stone 15x10x5 ins., 10 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; dig pits 18x18x12 ins.N. and S.of stone 3 ft.dist., and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high W.of cor.
9.43	Road bears N.40°E. and S.40°W., St.John to Stockton.
16.43	Road bears N.40°E. and S.40°W., St.John to Stockton.
42.27	Intersect E. and W.line 1.90 chs.W. of closing cor.of secs.27 and 34.
	Set a quartzite stone 15x10x8 ins., 10 ins.in the ground for closing cor.of secs.26 and 27, marked C C on N., 1 groove on S. and 2 grooves on E.faces; dig pits 24x18x12 ins.crosswise on each line E. and W.3 ft.dist., and N.of stone 7 ft.dist., and raise a mound of earth 4 ft.base, 2 ft. high N.of cor.
	I obliterate from the closing cor.of secs.27 and 34 all marks pertaining to sec.27 and re-mark same as cor.of secs.26 and 34; also re-mark the cor.of secs. 26 and 35 as the NW.cor.of sec.35 only.
	Land level.
	Soil saline, 2d rate.
	No timber.

Subdivision of T. 4 S., R. 5 W.

Chains.	
	From the meander cor.bet.secs.23 and 26, as re-established by me and heretofore described, which is 8 chs.W.of the ¼ sec.cor. bet.secs. 23 and 26, I run
	S.87° 15'W. for a flag previously set at the meander cor. bet.secs. 23 and 26, which is 9.06 chs.E.of the cor. of secs.22,23,26, and 27
	Over level land, through dense rabbit brush.undergrowth.
4.80	Leave dense undergrowth, bears N. and S.
20.84	Road bears N.28°E. and S.28°W., to Stockton.
23.74	Intersect meander cor.bet.secs. 23 and 26, as re-established by myself and heretofore described.
	Land level.
	Soil sandy and saline, 2d rate.
	No timber; undergrowth rabbit brush.
	Land covered with dense undergrowth 4.80 chs.
	Oct. 10, 1905.
	Oct.11, 1905. From the cor.of secs.3,4,33 and 34 on S. bdy.of Tp. as established by me and heretofore described I run
	N.0°08'W. on random line for the meander cor.bet.secs. 33 and 34, which is plainly visible,
40.00	Set temp.¼ sec.cor.
53.80	Intersect the meander cor.bet.secs.33 and 34, which is a square stake, marked and witnessed as described by the surveyor general.
	As my instructions state that the ¼ sec.cor.must be set 40.00 chs.S.from the corner of secs. 27,28,33, and 34, I deem it necessary to retrace the old line bet. secs.33 and 34. Therefore, from the meander cor.bet. secs. 33 and 34 I run
	North on retracement line bet.secs.33 and 34
38.41	Fall 26 lks. E.of the cor.of secs.27,28,33, and 34,

Subdivision of T. 4 S., R. 5 W.

Chains.

which is a sandstone 5x10x6 ins.above ground, marked and witnessed as described by the surveyor general.

The course of this line is, therefore, N.0°31'W. and the distance 28.41 chs.

Thence from meander cor.I run

S.0°08'E.on true line bet.secs.33 and 34,

Over level land.

11.59 Set a sandstone 15x8x6 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x12 ins.N. and S.of stone 3 ft.dist., and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.

13.37 Road bears N.45°E. and S.45°W. ,St.John to Stockton.

43.00 Road bears N. 45° E. and S.45°W, St.John to Stockton.

53.80 The cor.of secs.3,4,33, and 34.

Land level.

Soil sandy and saline 2d rate.

No timber.

Oct.11, 1905.

GENERAL DESCRIPTION.

The part of this township surveyed by me is of a low marshy nature, mainly; the soil, though somewhat impregnated with alkaline salts, is fertile; and produces a good growth of salt grass and other native grasses and plants, making it valuable mainly for grazing. Those portions inclosed by settlers owning land contiguous thereto produce fair crops of native or wild hay.

Alonzo J. Stookey

U.S.Deputy Surveyor.

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PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Alonzo J. Stookey United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the subdivisions of T 4 S R 5 W Salt Lake Base and Meridian Utah showing the respective capacities in which they acted:

Lincoln J. Stookey, *Chainman.*
J. W. Russell, *Chainman.*
J. W. Russell, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
Lincoln A. Stookey, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alonzo J. Stookey United States Deputy Surveyor, in surveying all those parts or portions of the subdivisions of T 4 S R 5 W of the Salt Lake Base & meridian, Utah of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah

Lincoln J. Stookey, *Chainman.*
J. W. Russell, *Chainman.*
J. W. Russell, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
Lincoln A. Stookey, *Flagman.*

Subscribed and sworn to before me this 11 day of Oct 1905, 189

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

6—161

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alonzo J. Stookey, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward T. Anderson United States Surveyor General for Utah, bearing date of the 24 day of March 1904 189 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivisions of T. 4 S. R. 5 W.

of the Salt Lake Base & meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Alonzo J. Stookey
United States Deputy Surveyor.

Subscribed by said Alonzo J. Stookey, and sworn to before me this 18th day of June 1904, 189

Thomas Hull
U.S. Surveyor-General
for Utah.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, January 23, 1907.

The foregoing field notes of the survey of the subdivisional lines in Township No. 4 South, Range No. 5 West of the Salt Lake Base and Meridian, Utah

executed by Alonzo J. Stookey
under his contract No. 284, dated March 24, 1904, 189 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in ....., has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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4—679. Filed Nov.4, 1905.

BOOK A-334
G.

FIELD NOTES

OF THE SURVEY OF THE

X.3.B.

RESURVEY AND RETRACEMENT

OF

SUBDIVISION

OF

TOWNSHIP NO. 5 SOUTH

RANGE NO.5 WEST

Of the SALT LAKE BASE AND *Meridian,*

UTAH,

AS SURVEYED BY

Alonzo J.Stookey, *United States Deputy Surveyor,*

Under his Contract No. 284, *dated* March 24, *190*4

Resurvey and Retracement ~~Survey~~ *commenced* October 11, *190*5.

Resurvey and Retracement *completed* October 13, *190*5.

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Resur. Sales. high
0 - 69 - 00

low
0 - 28 - 00

Retr. Sales. low
4 - 79 - 06 ✓

NAMES AND DUTIES OF ASSISTANTS.

Lionel J.Stookey	Chainman.
J.W.Russell	Chainman.
J.W.Russell	Moundman.
Lincoln A.Stookey	Flagman.

BOOK A-334

INDEX DIAGRAM.

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PRELIMINARY OATHS OF ASSISTANTS.

We, Lionel J. Stookey and J. W. Russell do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of and retracement of subdivisions of T. 5 S. R. 5 W. Salt Lake Base and Meridian Utah

Lionel J. Stookey, Chainman.
J. W. Russell, Chainman.

Subscribed and sworn to before me this 11 day of Oct. 1905, 189

SEAL

Alonzo J. Stookey
U. S. Deputy Surveyor

We, J. W. Russell and ..... do solemnly swear that we will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given me, to the best of my skill and ability, in the survey of and retracement of subdivisions of T. 5 S. R. 5 W. Salt Lake Base and Meridian Utah.

J. W. Russell, Moundman.
....., Moundman.

Subscribed and sworn to before me this 11 day of Oct. 1905, 189

SEAL

Alonzo J. Stookey
U. S. Deputy Surveyor

We, ... and ..... do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of .....

....., Axman.
....., Axman.

Subscribed and sworn to before me this ..... day of ....., 189

SEAL

I, Lincoln A. Stookey, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey and retracement of subdivisions of T. 5 S. R. 5 W. Salt Lake Base and Meridian Utah

Lincoln A. Stookey, Flagman.

Subscribed and sworn to before me this 11 day of Oct. 1905, 189

SEAL

Alonzo J. Stookey
U. S. Deputy Surveyor

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Resurvey of Subdivisions of T. 5 S., R. 5 W.

Chains. Not being able to find the meander cor.for ¼.sec.cor. bet.secs.2 and 3, I proceed to re-establish same as follows:

Resurvey commenced Oct.11, 1905, and executed with the instrument described in book "A" of this survey.

At the cor.of secs.2,3,10 and 11, which is a limestone 8x8x6 ins.above ground, marked and witnessed as described by the surveyor general, I observe Polaris at eastern elongation; at 6 h. 11 m.p.m.l.m.t. in accordance with instructions in the Manual, and mark the line thus determined by a tack driven in a wooden peg set in the ground 5 chs.N.of my station.

October 11, 1905.

Oct.12:At 7 h.a.m.l.m.t.I lay off the azimuth of Polaris 1° 34' to the west, and mark the meridian thus determined by a tack driven into a wooden plug firmly set in the ground west of the mark established last night; the mag.bearing of said true meridian is N.17° 11'W., which gives the mag.decl. 17° 11'E.

Thence I run

North between secs.2 and 3,

Over gently rolling land; through dense sagebrush undergrowth.

27.63 Telephone line bears N.50°E. and S.50°W.

30.70 Road bears N.50°E. and S.50°W. County road.

40.00 A. N.Young's South fence bears E. and W.

Set a quartzite stone 15x6x5 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x 12 ins.N. and S.of stone 3 ft.dist. , and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.

56.32 Ry.fence bears N.15°E. and S.15°W.

58.82 San Pedro, Los Angeles and Salt Lake R.R.bears N. 15°

Resurvey of Subdivision of T. 5 S., R. 5 W.

Chains	
	E. and S. 15° W.
60.59	Ry fence bears N.15° E. and S. 15° W.
69.00	Leave dense undergrowth bears N.15° E. and S. 15° W.
	Enter meadow.
71.46	South edge of pond bears E. and W.
72.90	N.edge of pond bears E. and W.
78.50	Set a pine post 3 ft.long, 4 ins.square, with marked stone, 24 ins.in the ground for meander cor.of fr acl. secs.2 and 3, marked M C on N., T 5 S on S., R 5 W S 2 on E. and S 3 on W.face; dig pit 36x36x12 ins.8 ft. S.of post and raise a mound of earth 4 ft.base, 2 ft.high S.of cor.
69.00 / 9.50	
	Land gently rolling and level.
	Soil gravelly clay and saline, 2d rate.
	No timber.
	Undergrowth sagebrush.
	Land covered with dense undergrowth 69.00 chs.

Not being able to find any trace of the meander cor. bet.secs.3 and 4 I proceed as follows to re-establish it:

I begin at the cor.of secs.3,4,9 and 10, which is a limestone 10x10x10 ins.above ground, marked and witnessed as described by the surveyor general, and run

North bet.secs.3 and 4,

Over level meadow.

18.50	Set a pine post 3 ft.long, 4 ins.square, with marked stone, 24 ins.in the ground for meander cor.of fracl. secs.3 and 4, marked M C on N. , T 5 S on S., R 5 W S 3 on E. and S 4 on W.face; dig a pit 36x36x12 ins. 8 ft.S.of stone, and raise a mound of earth 4 ft. base, 2 ft.high S.of cor.
	Land level.
	Soil saline, 2d rate.

Resurvey of Subdivision of T. 5 S., R. 5 W.

Chains No. timber.

Oct.11, 1905.

Volume
#
R0334

Retracement of Subdivision of T. 5 S., R. 5 W.

Chains	
	Section 2 not closing within limits I proceed as follows:
	Retracement commenced Oct.12, 1905, and executed with the instrument described in book "A" of this survey.
	I begin at the cor.of secs.2,3,10, and 11, heretofore described, and run on retracement line
	East between secs. 2 and 11
40.00	Fall 86 lks.S.of the ¼ sec.cor., which is a limestone 4x8x4 ins.above ground, marked and witnessed as described by the surveyor general.
80.00	Intersect N. and S.line 1.73 chs. S.of the cor.of secs. 1,2,11, and 12, which is a limestone 4x12x10 ins. above ground, marked and witnessed as described by the surveyor general.
	The course of this line, is therefore N.88° 46'E. and the distance 80.00 chs.
	From the cor.of secs.1,2,11, and 12, I run
	North on retracement line bet.secs.1 and 2
80.09	Intersect N.bdy.of Tp.1.19 chs.E.of the cor.of secs.1, 2,35, and 36 heretofore described.
	The course of this line is therefore N.0° 51'W., and the distance 80.09 chs.
	Section 3 not closing within limits, I begin at the cor.of secs.2,3,10, and 11, heretofore described, and run on retracement line
	West bet.secs.3 and 10
80.05	Fall 46 lks.N.of cor.of secs.3,4,9, and 10, heretofore described.
	The course of this line is therefore S.89° 40'W. and distance 80.05 chs.

Retracement of Subdivision of T. 5 S. R. 5 W.

Chains.

Section 4 also does not close within limits, so I begin at the cor. of secs.3,4,9 and 10 heretofore described and run

West on retracement line bet.secs.4 and 9

80.14 Fall 23 lks.N.of the cor.of secs.4,5,8 and 9, which is a limestone 4x12x10 ins.above ground, marked and witnessed as described by the surveyor general.

The course of this line is therefore S.89° 50'W. and the distance 80.14 chs.

I next begin at the cor.of secs. 4,5,8, and 9, heretofore described, and run

North on retracement line bet.secs.4 and 5,

78.78 Intersect the N.bdy.of the Tp.1.46 chs.E.of the cor. of secs.4,5,32, and 33, heretofore described.

The course of this line is therefore N.1° 03'W. and the distance 78.78 chs.

Lorenzo J. Storkey

U.S.Deputy Surveyor.

Oct.13, 1905.

For general description see subdivision of this township.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Alonzo J. Stookey, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the re survey and retracement of subdivisions T. 5 S. R. 5 W. Salt Lake Base and Meridian Utah. showing the respective capacities in which they acted:

Lionel J. Stookey, *Chainman.*
J. W. Russell, *Chainman.*
J. W. Russell, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
Lincoln A. Stookey, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alonzo J. Stookey, United States Deputy Surveyor, in surveying all those parts or portions of the resurvey and retracement of subdivisions of T. 5 S. R. 5 W. of the Salt Lake Base meridian, State of Utah, which are represented in the foregoing field notes as having been retraced and re surveyed by him and under his direction; and that said retracement and re survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah

Lionel J. Stookey, *Chainman.*
J. W. Russell, *Chainman.*
J. W. Russell, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
Lincoln A. Stookey, *Flagman.*

Subscribed and sworn to before me this 13th day of Oct 1905, 189

SEAL

Alonzo J. Stookey
U. S. Deputy Surveyor

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I Alonzo J. Stookey, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward W. Anderson United States Surveyor General for Utah, bearing date of the 24 day of March 1904, 189 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, resurveyed and retraced all those parts or portions of the subdivisional lines of T. 5 S. R. 5 W.

of the Salt Lake Base & meridian, in the State of Utah, which are represented in the foregoing field notes as having been resurveyed and retraced by me, and under my direction; and I do further solemnly swear that all the corners of said resurvey and retracement have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such resurvey and retracement; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Alonzo J. Stookey
United States Deputy Surveyor.

Subscribed by said Alonzo J. Stookey, and sworn to before me this 15th day of June 1904, 189

Thomas Kell
U.S. Surveyor-General
for Utah.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, January 23, 1907, 189

The foregoing field notes of the ~~survey of~~ resurvey and retracement of the subdivisional lines in Township No. 5 South, Range No. 5 West of the Salt Lake Base and Meridian, Utah,

executed by Alonzo J. Stookey
under his contract No. 284, dated March 24, 1904, 189 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the resurveys and retracements they describe, are hereby approved.

Thomas Kell
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in ....., has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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PAGE

4—679. Filed Nov.4, 1905.

H.

BOOK A-334

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

OF

TOWNSHIP NO. 5 SOUTH

RANGE NO. 5 WEST

Of the SALT LAKE BASE AND *Meridian,*

UTAH.

AS SURVEYED BY

Alonzo J. Stookey, *United States Deputy Surveyor,*

Under his Contract No. 284, *dated* March 24, *190*4.

Survey commenced October 11, *190*5.

Survey completed October 11, *190*5.

6—161

Subs. [illegible] 0-63-20 ✓

[illegible] 0-03-12 ✓

BOOK A-334

NAMES AND DUTIES OF ASSISTANTS.

Lionel J.Stookey.	Chainman.
J.W.Russell,	Chainman.
J.W.Russell,	Moundman,
Lincoln A.Stookey,	Flagman.

BOOK A-334

INDEX DIAGRAM.

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Lionel J. Stookey and J. W. Russell do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of subdivisions of T. 5 S. R. 5 W. Salt Lake Base and Meridian Utah.

Lionel J. Stookey, *Chainman.*

J. W. Russell, *Chainman.*

Subscribed and sworn to before me this 11th day of Oct. 1905, 189

SEAL

Alonzo J. Stookey
U. S. Deputy Surveyor

WE, J. W. Russell and ____ do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the subdivisions T. 5 S. R. 5 W. Salt Lake Base & Meridian Utah.

J. W. Russell, *Moundman.*

____, *Moundman.*

Subscribed and sworn to before me this 11th day of Oct. 1905, 189

SEAL

Alonzo J. Stookey
U. S. Deputy Surveyor

WE, ____ and ____ do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of ____

____, *Axman.*

____, *Axman.*

Subscribed and sworn to before me this ____ day of ____, 189

SEAL

I, Lincoln A. Stookey, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of subdivisions T. 5 S. R. 5 W. Salt Lake Base & Meridian Utah.

Lincoln A. Stookey, *Flagman.*

Subscribed and sworn to before me this 11th day of Oct. 1905, 189

SEAL

Alonzo J. Stookey
U. S. Deputy Surveyor

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Subdivision of T. 5 S., R. 5 W.

Chains. Survey commenced October 11, 1905, and executed with the instrument described in book "A" of this survey.

At the meander cor. of fractional secs. 2 and 3, as re-established by me and heretofore described I sight south to the ¼ sec. cor. bet. secs. 2 and 3, reverse telescope and run

North on random line bet. secs. 2 and 3,

3.67 Intersect north bdy. of Tp. 1.59 chs. E. of the cor. of secs. 2, 3, 34, and 35, heretofore described.

The falling being beyond the allowable limit, I obliterate from the cor. of secs. 2, 3, 34, and 35 all marks pertaining to secs. 2 and 3, and at my point of intersection,

Set a quartzite stone 18x6x5 ins., 12 ins. in the ground for closing cor. of secs. 2 and 3, marked C C on S., with 2 grooves on E. and 4 grooves on W. faces; dig pits 24x18x12 ins. crosswise on each line E. and W. 3 ft. and S. of stone 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high S. of cor.

Thence I run

South on true line bet. secs. 2 and 3,

Over level meadow.

3.67 The meander cor. bet. secs. 2 and 3.

Land level.

Soil sandy and saline 1st and 2d rate.

No timber.

From the meander cor. bet. secs. 3 and 4, as re-established by me, and heretofore described I run

North on random line bet. secs. 3 and 4,

21.50 Set temp. ¼ sec. cor.

59.53 Intersect north bdy. of Tp. 1.53 chs. N. 86° 35' E. of the cor. of secs. 3, 4, 33, and 34, heretofore described.

Subdivision of T. 5 S. R. 5 W.

Chains	
	The falling being above the allowable limit I obliterate from the cor.of secs.3,4,33 and 34 all marks pertaining to secs.3 and 4; and at my point of intersection I
	Set a sandstone 15x10x5 ins., 10 ins.in the ground for closing cor.of secs.3 and 4, marked C C on S., with 3 grooves on E. and W.faces; dig pits 24x18x12 ins. crosswise on each line E. and W. 3 ft., and S.of stone 7 ft.dist., and raise a mound of earth 4 ft. base, 2 ft.high S.of cor.
	South on true line bet.secs.3 and 4,
	Over level land.
38.03	Set a sandstone 15x8x6 ins., 10 ins.in the ground,for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; dig pits 18x18x12 ins.N. and S.of stone 3 ft.dist., and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high W.of cor.
51.78	Enter Morgan Bros. field; fence bears N.81° 40'W, and S 81°40'E.
59.53	The meander cor.bet.secs.3 and 4.
	Land level.
	Soil saline 2d rate.
	No timber.
	October 11, 1905.

General Description.

The part of this township surveyed by me is of a low marshy nature mainly; the soil, though somewhat impregnated with alkaline salts, is fertile,and produces a good growth of salt grass and other grasses and plants, making it valuable mainly for grazing.Those portions inclosed by settlers owning land contiguous thereto, produce fair crops of wild hay.

Alonzo J. Stookey

U.S.Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Alonzo J. Stookey, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of subdivisions T. 5 S. R. 5 W. Salt Lake Base & Meridian Utah. showing the respective capacities in which they acted:

Lionel J. Stookey, *Chainman.*
J. W. Russell, *Chainman.*
J. W. Russell, *Moundman.*
Moundman.
Axman.
Axman.
Lincoln A. Stookey, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alonzo J. Stookey, United States Deputy Surveyor, in surveying all those parts or portions of the subdivisions T. 5 S. R. 5 W. of the Salt Lake Base meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah

Lionel J. Stookey, *Chainman.*
J. W. Russell, *Chainman.*
J. W. Russell, *Moundman.*
Moundman.
Axman.
Axman.
Lincoln A. Stookey, *Flagman.*

Subscribed and sworn to before me this 12 day of Oct. 1905, 189

Alonzo J. Stookey
U. S. Deputy Surveyor.

SEAL

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alonzo J. Stookey, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward M. Anderson United States Surveyor General for Utah, bearing date of the 24 day of March 1904, 189 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivisions of T. 5 S. R. 5 W.

of the Salt Lake Base & meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Alonzo J. Stookey
United States Deputy Surveyor.

Subscribed by said Alonzo J. Stookey, and sworn to before me this 15th day of June 1906, 189

Thomas Kell
U.S. Surveyor General
for Utah.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, January 23, 1907.

The foregoing field notes of the survey of Subdivisional lines in Township No. 5 South, Range No. 5 West of the Salt Lake Base and Meridian, Utah,

executed by Alonzo J. Stookey under his contract No. 284, dated March 24, 1904, ~~189~~, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Kell
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in ..... has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-334

I.

FIELD NOTES

OF THE ~~SURVEY OF THE~~

RESURVEY AND RETRACEMENT

O F

FRACTIONAL SUBDIVISION

AND

R E T R A C E M E N T

OF

FRACTIONAL WEST BOUNDARY

OF

TOWNSHIP NO. 3 SOUTH

RANGE NO. 2 WEST

Of the SALT LAKE BASE AND *Meridian,*

U T A H

AS SURVEYED BY

Alonzo J. Stookey, *United States Deputy Surveyor,*

Under his Contract No. 234, *dated* March 24, *190*4.

Survey commenced October 16, *190*5.
etracement commenced October 18, 1905.

Survey completed October 16, *190*5.
etracement completed October 18, 1905.

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Resur. Subs. Lings
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BOOK R-334

NAMES AND DUTIES OF ASSISTANTS.

Lionel J.Stookey,	Chainman.
J.W.Russell	Chainman
J.W.Russell,	Moundman.
Lincoln A.Stookey	Flagman.

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BOOK A-334

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Lionel J. Stookey and J. W. Russell do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the ~~survey~~ resurvey and retracement of S. & W. bdy. sec. 30, & the N. & W. bdys. secs. 19 & 32, T. 3 S. R. 2 W. of the Salt Lake Base & Meridian, Utah.

Lionel J. Stookey, *Chainman.*

J. W. Russell, *Chainman.*

Subscribed and sworn to before me this 16 day of Oct. 1905, 189

SEAL

Alonzo J. Stookey
U. S. Deputy Surveyor

WE, J. W. Russell and ..... do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the ~~survey~~ resurvey and retracement of S. & W. bdy. sec. 30 & N. & W. bdys. secs. 19 & 32, T. 3 S. R. 2 W. of the Salt Lake Base and Meridian, Utah.

J. W. Russell, *Moundman.*

....., *Moundman.*

Subscribed and sworn to before me this 16 day of Oct. 1905, 189

SEAL

Alonzo J. Stookey
U. S. Deputy Surveyor

WE, ... and ..... do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of .....

....., *Axman.*

....., *Axman.*

Subscribed and sworn to before me this ..... day of ....., 189

SEAL

I, Lincoln A. Stookey, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the ~~survey~~ resurvey and retracement of S. & W. bdy. sec. 30 & N. & W. bdys. secs. 19 & 32, T. 3 S. R. 2 W. of the Salt Lake Base & Meridian, Utah.

Lincoln A. Stookey, *Flagman.*

Subscribed and sworn to before me this 16 day of Oct. 1905, 189

SEAL

Alonzo J. Stookey
U. S. Deputy Surveyor

6—151

SURVEY OF SUBDIVISION TP. 3 S., W

Survey commenced Oct.16, 1905, and executed with a W. & L.E.Gurley light mountain transit; the horizontal limb having two double verniers placed opposite to each other and reading to single minutes of arc,which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Salt Lake City, found correct, and was approved by the Surveyor General for Utah June 3,1905.

The ¼ sec.cor.bet.secs.30 and 31, from which I am to initiate my survey, having been destroyed, and the stone found lying loose on the ground, thus making its original position uncertain, I proceed as follows to re-establish it.

The corner of sections 29,30,31 and 32 also having been destroyed, I begin at the ¼ sec.cor.bet.secs.29 and 32, which is a boulder stone 16x12x12 ins.above ground, firmly set and marked and witnessed as described by the Surveyor General; approximate lat.40° 31'N.; long.112° 06'W. Said ¼ sec.cor.is under Harry Kuphaldt's fence.

At 5h. 45m.a.m.l.m.t.I observe Polaris at western elongation, in accordance with the instructions in the Manual, and mark the line thus determined by a tack driven into a wooden plug set in the ground 5.00 chs. N.of my station.

Oct.16: At 7h.a.m.l.m.t.I lay off the azimuth of Polaris 1° 34'to the east, and mark the true meridian thus determined by a tack driven into a wooden plug firmly set in the ground east of the point established last night; the magnetic bearing of the true meridian is N. 17° 30'W. , which gives the magnetic declination 17° 30'E.

RESURVEY SUBDIVISION OF T. 3 S. R. 2 W.

Chains	
	I lay off from the true meridian an angle of 90° from N.to W., and run
	West on true resurvey line bet.secs.29 and 32,
	Along Harry Kuphaldt's north fence, up gentle ascent, through dense sage and oak brush undergrowth.
24.00	Gate and road bears N. & S.
25.70	Fence turns S.50° W.
25.80	Road bears E. and S.50° W.
26.86	Dalton and Lark tramway, bears N.30° E. and S.30° W.
29.65	Same tramway bears N.20° W. and S.20° E.
30.20	Road bears W. and S.45° E.
30.33	Fence bears W.and S.45° E.
39.93	Set a quartzite stone 18x9x6 ins., 12 ins.in the ground for cor.of secs.29,30,31, and 32, marked with 1 notch on S. and 5 notches on E.edges; raised a mound of stone 2 ft.base, 1½ ft.high W.of cor.
	Pits impracticable.
	Land gently rolling.
	Soil sandy, 2d rate.
	Land covered with dense undergrowth 39.93 chs.
	West on true resurvey line bet.secs.30 and 31,
	Along Harry Kuphaldt's north fence, up gentle ascent, through dense sage and oak undergrowth.
1.50	Ravine, drains S.70° E.
9.74	Fence cor.bears E. and S.35° W.
9.90	Road bears E. and S.35° W.
40.00	Find old cor.stone lying loose on the ground.
	I re-establish corner in its original position by setting a quartzite stone 18x7x5 ins., 12 ins.in the ground, for ¼ sec.cor., marked ¼ on N.face; and raise a mound of stone 2 ft.base, 1½ ft.high N.of cor.
	Pits impracticable.

RETRACEMENT FRACTIONAL WEST BDY. AND SUBDIVISION TP. 3 S., R. 2 W.

Chains. Land gently rolling.

Soil sandy, 2d rate.

Land covered with dense undergrowth 40.00 chs.

Oct.16, 1905.

Oct.18:

Not coming within limits in my survey of the western half-mile bet.secs.30 and 31, T. 3 S., R. 2 W. I proceed to locate the error as follows:

I begin at the original corner of secs.25,30,31, and 36, T. 3 S., Rs. 2 and 3 W., heretofore described, and run

N.0° 12'E.on retracement line bet.secs.25 and 30;

and at 80.96 chs.intersect corner of secs.19,24,25 and 30, heretofore described.

I also find that sec.31 does not close within limits, and proceed as follows:

I begin at the cor.of secs.29,30,31, and 32, as re-established by myself, and heretofore described, and run

South, on retracement line bet.secs.31 and 32,

40.00 Find no definite trace of $\frac{1}{4}$ sec.cor.

80.90 Intersect S.bdy.of the Tp. at the cor.of secs.5,6,31, and 32. The course of this line is, therefore north and the distance 80.90 chs., which brings sec.31 within limits.

From the cor.of secs.19,24,25, and 30, which is a quartzite stone 6x9x4 ins.above ground, marked and witnessed as described by the surveyor general, I run

RETRACEMENT W. AND N.BDYS.OF SEC.19, T. 3 S., R. 2 W.

Chains.	N.0° 12'E.on retracement line along the W.bdy.of sec. 19, finding it correct in bearing and distance, as reported.
	I then begin at the cor.of secs.13,18,19, and 24, which is a limestone 12x12x5 ins.above ground, marked and witnessed as described by the surveyor general, and run
	East on retracement line along the N.bdy.of sec.19,
40.00	Fall 63 lks.N.of ½ sec.cor.
80.03	Cor of secs.17,18,19, and 20, bears south 1.23 chs. dist.
	The length of this line is, therefore 80.03 chs., and the course S.89° 07'E.
	This brings the closing errors within limits.
	For general description see notes of subdivision of Tp.3 S., R. 2 W.
	U.S.Deputy Surveyor.
	Oct.18, 1905.
	Note:
	In the survey of fractional townships 4 and 5 S. R.5 W. and fp.3 S., R. 2 W., there being no officer authorized to administer oaths, other than myself, available without great inconvenience, delay and expense, I administer the required preliminary and final oaths myself.
	U.S.Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Alonzo J. Stookey, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the ~~survey~~ resurvey and retracement of S.&W. bdy sec 30 & N.&W. bdys secs 19 & 32 T 3 S R 2 W of the Salt Lake Base and Meridian showing the respective capacities in which they acted:

Lionel J. Stookey ..... Chainman.
J. W. Russell ..... Chainman.
J. W. Russell ..... Moundman.
..... Moundman.
..... Axman.
..... Axman.
Lincoln A. Stookey ..... Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alonzo J. Stookey, United States Deputy Surveyor, in ~~surveying~~ resurveying and retracing all those parts or portions of the S.&W. bdy sec 30 & the N.&W. bdys secs 19 & 32 T 3 S R 2 W of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said re and retracement survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah

Lionel J. Stookey ..... Chainman.
J. W. Russell ..... Chainman.
J. W. Russell ..... Moundman.
..... Moundman.
..... Axman.
..... Axman.
Lincoln A. Stookey ..... Flagman.

Subscribed and sworn to before me this 18 day of Oct. 1905, 189

Alonzo J. Stookey
U.S. Deputy Surveyor

SEAL

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alonzo J. Stookey, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward Henderson United States Surveyor General for Utah, bearing date of the 24 day of March, 1904, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, resurveyed and retraced all those parts or portions of the S. & W. bdy of sec 30 & the N. and W. bdys of secs 19 & 32 T 38 of Range 2 W.

of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said resurvey and retracement have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such resurvey and retracement and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Alonzo J. Stookey
United States Deputy Surveyor.

Subscribed by said Alonzo J. Stookey, and sworn to before me this 15th day of June 1906, 189

Thomas Hull
U. S. Surveyor General
for Utah.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, January 23, 1907.

The foregoing field notes of the ~~survey of~~ resurvey and retracement of fractional subdivional lines, and retracement of fractional west boundary of Township No. 3 South, Range No. 2 West of the Salt Lake Base and Meridian, Utah,

executed by Alonzo J. Stookey under his contract No. 284, dated March 24, 1904, ~~189~~, having been critically examined, and the necessary corrections and explanations made, ~~the~~ said field notes, and the resurveys and retracements surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in ....., has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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F ... Nov. , 1905.

BOOK A-334
J.

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

OF

TOWNSHIP NO. 3 SOUTH,

RANGE NO. 2 WEST

Of the SALT LAKE BASE AND *Meridian,*

UTAH,

AS SURVEYED BY

Alonzo J. Stookey, *United States Deputy Surveyor,*

nder his Contract No. 284, *dated* March 24, *1904.*

urvey commenced October 17, *1905.*

urvey completed October 17, *1905.*

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BOOK A-334

NAMES AND DUTIES OF ASSISTANTS.

Lionel J.Stookey	Chainman.
J.W.Russell	Chainman.
J.W.Russell	Moundman.
Lincoln A.Stookey	Flagman.

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PRELIMINARY OATHS OF ASSISTANTS.

We, Lionel J. Stookey and J. W. Russell do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the subdivisions of T. 3 S. R. 2 W. Salt Lake B. & M. Meridian, Utah.

Lionel J. Stookey, Chainman.
J. W. Russell, Chainman.

Subscribed and sworn to before me this 17th day of Oct. 1905, 189

Alonzo J. Stookey
U.S. Deputy Surveyor

SEAL

We, J. W. Russell and do solemnly swear that ~~we~~ I will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us~~ me to the best of ~~our~~ my skill and ability, in the survey of the subdivisions of T. 3 S. R. 2 W. Salt Lake B. & M. Meridian, Utah.

J. W. Russell, Moundman
, Moundman

Subscribed and sworn to before me this 17th day of Oct. 1905, 189

Alonzo J. Stookey
U.S. Deputy Surveyor.

SEAL

We, and do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corner and other duties, according to instructions given us, to the best of our skill and ability, in the survey

, Axman
, Axman

Subscribed and sworn to before me this
day of , 189

SEAL

I, Lincoln C. Stookey, do solemnly swear that I will well and trul perform the duties of flagman according to instructions given me, to the best of my skill and ability, in th survey of the subdivisions T. 3 S. R. 2 W. Salt Lake B. & M. and Meridian

Lincoln C. Stookey, Flagman.

Subscribed and sworn to before me this 17th day of Oct. 1905, 189

Alonzo J. Stookey
U.S. Deputy Surveyor.

SEAL

6—151

Subdivision of T. 3 S., R. 2 W.

Chains. Survey commenced October 17, 1905, and executed with the instrument described in book "I" of this survey.

I begin at the ¼ seccor.bet.secs.30 and 31 as re-established by me and heretofore described, and run

West on random line bet.secs.30 and 31,

40.15 Intersect W.bdy.of Tp.3S.1kS.N.of cor.of secs.25,30,31 and 36, which is a quartzite stone 6x7x6 ins.above ground, firmly set and marked and witnessed as described by the surveyor general.

The falling exceeding the allowable limit I establish the random as a true line, and at my intersection with the range line, I

Set a quartzite stone 15x6x6 ins., 10 ins.in the ground for closing cor.of secs.30 and 31, marked C C on E., with 1 groove on S. and 5 grooves on N.faces; raised a mound of stone 3 ft.base, 1½ ft.high E.of cor. Pits impracticable.

I obliterate all marks on the old cor.of secs.25,30,31 and 36 that pertain to secs.30 and 31.

I then begin at the closing cor.just established and run

East on true line bet.secs.30 and 31,

Along N.face of mountain, through dense oak undergrowth.

4.25 Top of quarzite ridge bears N.45° E. and S.45°W. and begin steep descent.

14.00 Road bears N.30°E. and S.30°W.

20.00 Foot of steep descent bears N. and S., and proceed down gentle descent.

33.00 Begin descent into hollow bears N.45° W. and S.45°E.

34.65 Bottom of hollow drains S.45°E.and ascend.

38.00 Top of ascent bears N.45°W. and S.45°E.

40.15 The ¼ sec.cor.bet.secs.30 and 31.

Land mountainous and rolling.

Soil stony and gravelly 2d and 3d rate.

Mountainous land or land covered with dense undergrowth

Subdivision of T. 3 S., R. 2 W.

Chains.	40.15 chs.
	From the ¼ sec.cor.bet.secs.19 and 30, which is a sandstone 10x15x7 ins., above ground, marked and witnessed as described by the surveyor general, I run
	West on random line bet.secs.19 and 30,
40.10	Intersect range line 19 lks.S.of the cor.of secs.19, 24,25, and 30. Thence I run
	S.89° 44'E.on true line bet.secs.19 and 30
	Over mountainous land through dense oak undergrowth.
10.00	Abandoned tramway bears N. and S.
19.65	Bottom of hollow drains N.38°E. and ascend.
23.00	Top of ascent bears N. and S.
24.30	Road bears N.15° E. and S. 15° W.
39.00	Ravine drains N.45°E.
40.10	The ¼ sec.cor.bet.secs.19 and 30.
	Land mountainous.
	Soil stony and gravel 2d and 3d rate.
	Undergrowth oak brush.
	No timber.
	Mountainous land or land covered with dense undergrowth
	40.1[illegible] chs.

General Description.

The parts of the township embraced in this survey consist of mountainous land in the west, merging into low hills and rolling bench land in the east.

It is fairly well watered, but is devoid of timber. The greater portion is covered with a dense growth of oak and sage brush undergrowth.

There are no settlers on the portion surveyed by

SUBDIVISION OF T. 3 S. R. 2 W.

me. The land is all mineral land.

Alonzo J. Stookey

U.S.Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Alonzo J. Stookey, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the fractional divisions T 3 S R 2 W. Salt Lake Base showing the respective capacities in which they acted:

Lionel J. Stookey, *Chainman.*
J. W. Russell, *Chainman.*
J. W. Russell, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
Lincoln A. Stookey, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alonzo J. Stookey, United States Deputy Surveyor, in surveying all those parts or portions of the subdivisions T 3 S R 2 W of the Salt Lake Base meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General or Utah

L. Stookey, *Chainman.*
J. W. Russell, *Chainman.*
J. W. Russell, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
Lincoln A. Stookey, *Flagman.*

Subscribed and sworn to before me this 17th day of Oct. 1905, 189

Alonzo J. Stookey
U.S. Deputy Surveyor

SEAL

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alonzo J. Stookey, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward M. Anderson, United States Surveyor General for Utah, bearing date of the 24 day of March 1904, 189 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivisions of T. 3 S. R. 2 W. of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Alonzo J. Stookey
United States Deputy Surveyor.

Subscribed by said Alonzo J. Stookey, and sworn to before me this 15th day of June 1906, 189

Thomas Kell
U. S. Surveyor-General
for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 23 1907, 189

The foregoing field notes of the survey of the Subdivisional lines in Township No. 3 South, Range No. 2 West of the Salt Lake Base and Meridian, Utah,

executed by Alonzo J. Stookey under his contract No. 284, dated March 24, 1904, 189 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Kell
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in ....., has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-334

FIELD NOTES

OF THE re SURVEY OF THE

2nd Standard Parallel N. through Rs. 2, and 3 W.

Of the Salt Lake Base and Meridian,

Utah

AS SURVEYED BY

Alfredo R. Talamantes, United States Deputy Surveyor,

Under his Contract No. 286, dated Jan. 21 - 1905, ~~189~~

Re Survey commenced Nov 13 - 1905, ~~189~~

Survey completed Nov 15 - 1905, ~~189~~

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3 W " 6 0000
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BOOK A-334

NAMES AND DUTIES OF ASSISTANTS.

William H Dunn	Chainman
Vinson F Davis	Chainman
John Rust	Chainman
Martin Rasmussen	Chainman
Martin Rasmussen	Mounduman
John Rust	Flagman

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Volume
#
R0334

BOOK A-334

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PRELIMINARY OATHS OF ASSISTANTS.

WE, John Burt William H Dunn Martin Rasmussen & Vinson F. do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the re survey of the 2nd Standard Parallel N through Rs. 2 and 3 W Salt Base and Meridian Utah

John Burt William H Dunn, Chainman.

Martin Rasmussen Vinson F. Davis, Chainman.

Subscribed and sworn to before me this 21st day of Nov 1905, ~~189~~

SEAL

Alfredo R Talamantes
U S Deputy Surveyor

WE, I Martin Rasmussen ~~and~~ do solemnly swear that ~~we~~ I will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the re survey of 2nd Standard Parallel N through Rs. 2 and 3 W. Salt Lake Base and Meridian Utah

Martin Rasmussen, Moundman.

, Moundman.

Subscribed and sworn to before me this 21st day of Nov 1905, 189

SEAL

Alfredo R Talamantes
U S Deputy Surveyor

WE, and do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

, Axman.

, Axman.

Subscribed and sworn to before me this day of , 189

SEAL

I, John Burt, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the resurvey of 2nd Standard Parallel N through Rs 2 and 3 W, Salt Lake Base and Meridian Utah

John Burt, Flagman.

Subscribed and sworn to before me this 21st day of Nov 1905, 189

SEAL

Alfredo R Talamantes
U. S. Deputy Surveyor

6—151

RESURVEY OF THE 2nd STANDARD PARALLEL N. THROUGH R. 2 W.
CHAINS

Survey commenced November 13, 1905, and executed with a W. and L. E. Gurley light mountain transit with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arc.

The instrument was examined and tested on the true meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, June 3, 1904.

I examine the adjustments of the transit, and correct the level and collimation errors; then to test the solar apparatus, by comparing its indications, resulting from solar observations made during a. m. and p. m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the standard cor. of secs. 35 and 36 T. 9 N. R. 2 W. which is a quartzite stone 5x6x8 ins. above the ground, marked and witnessed as described by the surveyor general lat. 41° 27' 43" N., long. 112° 01' 52" W., I set off 41° 28' N. on the lat arc, 17 55" S. on the decl. arc; and at 3 h. 44 m. p. m. l. m. t., determine with the solar a meridian and mark a point thereof on a stake firmly set in the ground, 5 chs. N. of the cor.

November 13, 1905.

November 14, 1905. At 3 h. 51 m. a. m. l. m. t. I observe Polaris at western elongation in accordance with the Manual of Instructions, and mark a point in the line thus determined on a peg driven in the ground, 5 chs. N. of my station.

At 7 a. m. l. m. t. I lay off the azimuth of Polaris 1 35' to the east and mark the meridian thus determined by cutting a small mark on the stake set November 13, on which the meridian falls 0.3 ins. west of the mark determined by the solar.

RESURVEY OF THE 2nd STANDARD PARALLEL N. THROUGH R. 2 W.

CHAINS

At 8 h. 00 m. a. m. l. m. t. I set off 41 28' N. on the lat. arc, 18°06' S. on the decl. arc, and mark a point in the meridian determined with the solar by a cross on the stake already set, 5 chs. N. of my station.

This mark falls 0.2 ins. west of the meridian established by the Polaris observation.

The solar apparatus by p. m. and a. m. observation, defines positions for meridian respectively about 0'16"E., and 0'11"W. of meridian established by the Polaris observations: therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8 h. 10 m. a. m. is N. 18°05' W., the angle thus determined gives the mag. decl. 18°05' E.

From the standard cor. above described I lay off from the meridian an angle of 90° from north to west and run west on the tangent S. of sec. 35.

Over slight descending land.

30.00 County road bears N. 29°W. and S. 29°E.

30.50 Wire fence bears N. 29°W. and S. 29°E.

Difference between measurement of 40.00 chs. by two sets of chainmen is 4 lks., position of middle point.

By 1st set 39.98 chs.

By 2nd set 40.02 chs., the mean of which is

40.00 N. 1/4 lks. from tangent.

Set a granite stone 18x12x10 ins. 12 ins. in ground for standard 1/4 sec. cor., marked S C 1/4 on N. face; dig pits 18x18x12 ins. E. and W. of stone, 3 ft. dist. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor.

No trace of old cor. could be found.

40.20 Wire fence bears N. and S.

43.55 Wire fence bears N. 15°E. and S. 15°W.

43.85 Road bears N. 15°E. and S 15°W.

44.17 Ditch drains N. 15°E.

44.27 Wire fence bears N. 15°E. and S. 15°W.

50.13 Wire fence bears N. 7°W.

50.40 Wire fence bears N. 7° W.

73.87 Wire fence bears N. 70° E.

77.20 Ditch drains N.

Difference between measurement of 80.00 chs. by two sets of chainmen is 8 lks., position of middle point.

By 1st set 79.96 chs.

By 2nd set 80.04 chs., the mean of which is

80.00 N. 0.09 lks. from tangent.

Set a porphyry stone 16x10x10 ins. 10 ins. in the ground for standard cor. of secs. 34 and 35, marked S C on N. with 2 grooves on E. and 4 grooves on W. face; dig pits 24x18x12 ins. crosswise on each line, E. and W., 3 ft, and N. of stone, 7 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high N. of cor.

No trace of old cor. could be found.

Land gently rolling.

Soil sandy loam. 1st rate.

No timber.

S. 89° 59' W. on the tangent, S. of sec. 34.

Through level land.

4.50 Wire fence bears N. 70° W. and S. 70° E.

5.40 Wire fence bears N. 70° W. and S. 70° E.

20.44 Wire fence bears N. 20° E. and S. 20° W.

25.15 Wire fence bears N.10°E. and S.10°W.

25.55 Oregon Short Line R.R. bears N.10°E. and S.10°W.

26.15 Wire fence bears N. 10° E. and S. 10° W.

35.15 Wire fence bears N. and S.

35.80 Wire fence bears N. 10° E. and S. 10° W.

40.00 Point for 1/4 sec. cor. falls in middle of a farm,

CHAINS	
	cannot be set.
	No trace of old cor. could be found.
45.94	Wire fence bears N. 10° E. and S. 10° W.
	Difference between measurement of 46.00 chs. by two sets of chainmen is 10 lks., position of middle point.
	By 1st set 45.95 chs.
	By 2nd set 46.05 chs.; the mean of which is
46.00	N. 2 lks. from the tangent.
	Set a porphyry stone 16x8x8 ins. 10 ins. in the ground for witness cor. to standard 1/4 sec. cor., marked, W C S C 1/4 on N. face, and raise a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor.
	Pits impracticable.
46.72	S. P. railroad bears N. 10° E. and S. 10° W.
47.48	Wire fence bears N. 10° E. and S. 10° W.
56.26	Wire fence bears N. 80° E. and S. 80° W.
60.71	Wire fence bears N. 10° E. and S. 10° W.
	Difference between measurements of 80.00 chs. by two sets of chainmen is 16 lks., position of middle point.
	By 1st set 79.92 chs.
	By 2nd set 80.08 chs., the mean of which is
80.00	N. 3.5 lks. from the tangent.
	Set a quartzite stone 18x12x8 ins. 12 ins in the ground for standard cor of secs. 33 and 34, marked S C on N. with 3 grooves on E. and W. faces; dig pits 24x18x12 ins. crosswise on each line E. and W. 3 ft. and N. of stone 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high N. of cor.
	No trace of old cor could be found.
	Land level.
	Soil loam. 1st rate.
	No timber.

S. 89° 58' W. on the tangent S. of sec. 33.

Over level land.

.35 Wire fence bears E. and W.

Difference of measurements of 40.00 chs. by two sets of chainmen is 4 lks., position of middle point.

By 1st set 39.98 chs.

By 2nd set 40.02 chs.

The mean of which is

40.00 N. 5.6 lks from the tangent.

Set a porphyry stone 18x14x5 ins. 12 ins. in the ground for standard 1/4 sec. cor., marked S C 1/4 on N. face; dig pits 18x18x12 ins. E. and W. of stone, 3 ft. dist., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

No trace of old cor. could be found.

Difference between measurement of 80.00 chs. by two sets of chainmen is 8 lks., position of middle point.

By 1st set 80.04 chs.

By 2nd set 79.96 chs.

The mean of which is

80.00 N. 8 lks. from the tangent.

Set a porphyry 18x10x5 ins. 12 ins. in the ground for standard cor. of secs. 32 and 33, marked S C on N. with 4 grooves on E. and 2 grooves on W. face; dig pits 24x18x12 ins., crosswise on each line E. and W. 3 ft., and N. of stone 7 ft. dist, and raise a mound of earth 4 ft. base, 2 ft. high N. of cor.

No trace of old cor. could be found.

Land level.

Soil, sandy loam with alkali. 3d rate.

No timber.

RESURVEY OF THE 2nd STANDARD PARALLEL N. THROUGH R. 2 W.

CHAINS	
	S. 89° 58' W. on the tangent S. of sec. 32.
	Over flat land.
	Difference between measurement of 40.00 chs. by two sets of chainmen is 6 lks., position of middle point.
	By 1st set 80.03 chs.
	By 2nd set 79.97 chs.
	The mean of which is
40.00	N. 10.90 lks. from the tangent.
	Set a porphyry 18x14x4 ins. 12 ins in the ground for standard 1/4 sec. cor., marked S C 1/4 on N. face; dig pits 18x18x12 ins. E. and W. of stone, 3 ft dist., and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high, N. of cor.
	No trace of old cor could be found.
	Difference between measurements of 80.00 chs. by two sets of chainmen is 14 lks.
	Position of middle point.
	By 1st set 79.93 chs.
	By 2nd set 80.07 chs.
	The mean of which is
80.00	N. 14 lks. from the tangent.
	Set a porphyry stone 20x10x8 ins. 15 ins. in the ground for standard corner of secs. 31 and 32, marked S C on N., with 5 grooves on E. and 1 groove on W. face; and raise a mound of earth 4 ft. base, 2 ft. high, N. of cor.
	No trace of old cor. could be found.
	Soil sandy laom with alkali. 3d rate.
	No timber.

S. 89° 57' W. on the tangent S. of sec. 31.

Over flat land.

Difference between measurement of 40.00 chs. by two sets of chainmen is 4 lks., position of middle point.

By 1st set 40.02 chs.

By 2nd set 39.98 chs., the mean of which is

40.00 N. 17.90 lks. from the tangent.

Set a porphyry 16x14x4 ins. 11 ins. in the ground for standard 1/4 sec. cor., marked S. C. 1/4 on N. face; dig pits 18x18x12 ins. E. and W. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor. No trace of old cor could be found.

Difference between measurement of 80.00 chs. by two sets of chainmen is 8 lks., position of middle point.

By 1st set 79.96 chs.

By 2nd set 80.04 chs., the mean of which is

80.00 N. 22.50 lks. from the tangent.

Set a porphyry 18x10x8 ins. 12 ins. in the ground for standard cor. of Tps. 9 N. Rs. 2 and 3 W. Marked S. C. on N.; with 6 grooves on N., E., and W. faces; dig pits 30x24x12 ins. crosswise on each line E. and W. 4 ft. and N. of stone, 8 ft. dist., and raise a mound of earth 5 ft. base 2 1/2 ft. high, N. of cor.

No trace of old cor. could be found.

Land level.

Soil sandy loam with alkali. 3d rate.

No timber.

November 14, 1905.

RESURVEY OF THE 2nd STANDARD PARALLEL N. THROUGH R. 3 W.

S. 89° 56' W. on the tangent S. of sec. 36.

Over flat land.

Difference between measurement of 40.00 chs. by two sets of chainmen is 6 lks., position of middle point.

By 1st set 39.97 chs.

By 2nd set 40.03 chs., the mean of which is

CHAINS

40.00 N. 25.75 lks. from the tangent.

Set a porphyry 18x12x3 ins. 12 ins in the ground for standard 1/4 sec. cor., marked S. C. 1/4 on N. face; dig pits 18x18x12 ins. E. and W. of stone, 3 ft. dist.; and raise a mound of earth, 3 1/2 ft. base 1 1/2 ft. high, N. of cor.

No trace of old cor. could be found.

Difference between measurement of 80.00 chs. by two sets of chainmen is 14 lks., position of middle point.

By 1st set 80.07 chs.

By 2nd set 79.93 chs., the mean of which is

80.00 N. 32.5 lks from the tangent.

Set a porphyry 18x12x5 ins. 12 ins in the ground for standard cor of secs. 35 and 36, marked S. C. on N. with 1 groove on E. and 5 grooves on W. face; dig pits 24x18x 12 ins. crosswise on each line E. and W. 3 ft., and N. of stone, 7 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high, N. of cor.

No trace of old cor. could be found.

Land level.

Soil sandy loam with alkali. 3d rate.

No timber.

S. 89° 55' W. on the tangent S. of sec. 35.

Over flat land.

Difference between measurement of 40.00 chs. by two sets of chainmen is 6 lks., position of middle point.

By 1st set 40.05 chs.

By 2nd set 39.97 chs., the mean of which is

40.00 N. 35.14 lks from the tangent.

Set a porphyry 18x8x4 ins. 12 ins. in the ground for standard 1/4 sec. cor., marked S. C. 1/4 on N. face; dig pits 18x18x12 ins. E. and W. of stone 3 ft. dist; and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor.

CHAINS	
	No trace of old cor. could be found.
	Difference between measurement of 80.00 chs. by two sets of chainmen is 12 lks., position of middle point.
	By 1st set 79.94 chs.
	By 2nd set 80.06 chs., the mean of which is
80.00	N. 43.5 lks. from the tangent.
	Set a porphyry 18x12x6 ins. 12 ins. in the ground for standard cor. of secs. 34 and 35, marked S. C. on N., with 2 grooves on E. and 4 grooves on W. face; dig pits 24x18x12 ins. crosswise on each line, E. and W. 3 ft., and N. of stone 7 ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high, N. of cor.
	No trace of old cor. could be found.
	Land level.
	Soil sandy loam with alkali. 3d rate.
	No timber.
	S. 89° 55' W. on the tangent S. of sec. 34.
	Over flat land.
	Difference between measurement of 40.00 chs. by two sets of chainmen is 4 lks., position of middle point.
	By 1st set 40.02 chs.
	By 2nd set 39.98 chs., the mean of which is
40.00	N. 49.93 lks. from the tangent.
	Set a porphyry 18x10x6 ins. 12 ins. in the ground for standard 1/4 sec. cor. marked S. C. 1/4 on N. face; dig pits 18x18x12 ins. E. and W. of stone 3 ft dist.; raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high, N. of cor. No trace of old cor. could be found.
	Difference between measurement of 80.00 chs. by two sets of chainmen is 10 lks., position of middle point.
	By 1st set 80.05 chs.
	By 2nd set 79.95 chs., the mean of which is
80.00	N. 57 lks. from tangent

CHAINS

Set a porphyry 18x12x4 ins. 12 ins. in the ground for standard cor. of secs. 33 and 34, marked S. C. on N. with 3 grooves on E. and W. faces; dig pits 24x18x12 ins. crosswise on each line E. and W. 3 ft. and N. of stone 7 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high, N. of cor.

No trace of old cor. could be found.

Land level.

Soil sandy loam with alkali. 3d rate.

No timber.

S. 89° 54' W. on the tangent S. of sec. 33.

Over flat land.

Difference between measurement of 40.00 chs. by two sets of chainmen is 6 lks., position of middle point.

By 1st set 40.03 chs.

By 2nd set 39.97 chs., the mean of which is

40.00 N. 64.34 lks. from the tangent.

Set a porphyry 16x8x8 ins. 11 ins. in the ground for standard 1/4 sec. cor. marked S.C1/4 on N. face; and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor.

No trace of old cor. could be found.

Difference between measurements of 80.00 chs. by two sets of chainmen is 14 lks., position of middle point.

By 1st set 80.07 chs.

By 2nd set 79.93 chs., the mean of which is

80.00 N. 71.5 lks. from the tangent.

Set a porphyry 18x6x6 ins. 12 ins. in the ground for standard cor. of secs. 32 and 33, marked S. C. on N. with 4 grooves on E. face; and 2 grooves on W. face; dig pits 24x18x12 ins. crosswise on each line E. and W. 3 ft. and N. of stone 7 ft. dist.; raise a mound of earth 4 ft base 2 ft. high N. of cor.

No trace of old cor. could be found.

Land level.

RESURVEY OF THE 2nd TANDARD PARALLEL N. THROUGH R. 3 W.

CHAINS

Soil sandy loam with alkali. 3d rate.

No timber.

S. 89° 53' W. on the tangent S. of sec. 32.

Over flat land.

34.95 Telephone line from Brigham City to Bear River Gun, Knudson, and Duckville Clubs bears N. 72°E. and S. 72°W.

Difference between measurement of 40.00 chs. by two sets of chainmen is 8 lks., position of middle point.

By 1st set 39.96 chs.

By 2nd set 40.04 chs. the mean of which is

40.00 N. 80.66 lks. from the tangent.

Set a porphyry 18x12x8 ins. 12 ins. in the ground for standard 1/4 sec. cor. marked S. C. 1/4 on N. face; dig pits 18x18x12 ins. E. and W. of stone 3 ft. dist., and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.

No trace of old cor. could be found.

46.50 Road from Brigham City to Bear River Gun, Knudson and Duckville Clubs bears N. 72°E. and S. 72°W.

53.75 Willow creek, at present dry, drains S. 20 W.

58.80 N. 83.57 lks. from the tangent.

Left bank of Bear River S. 85 W.

Set a pine post 4 ft. long, 4 ins. sq. with marked stone 24 ins in the ground for meander cor. of fract. secs. 5 and 32, marked M. C. on W., S. C. T. 9 N. S. 32 on N., R. 3 W. on E. and T. 8 N. S. 5 on S. face; dig a pit 36x36x12 ins. 8 ft. E. of post, and raise a mound of earth 4 ft. base, 2 ft high E. of cor.

(Note.) The latitudinal line could not be followed at this point on account of river.

I proceed to offset as follows:

S. 0° 07' E. 4.00 chs.

S. 89° 53' W. 18.67 chs.

N. 0° 07' W. 4.00 chs. to the tangent counting from

CHAINS

standard cor.

77.47 N. 87.75 lks.

Left bank of Bear River flows N. W.

Set a black willow 3 1/2 ft. long 4 ins. sq. with marked stone 24 ins in the ground for meander cor. of fract. secs. 5 and 32, marked M. C. on E., S. C. T. 9 N. S. 32 on N., R. 3 W. on W. and T. 8 N. S. 5 on S. face; dig a pit 36x36x12 ins. 8 ft. W. of post, and raise a mound of earth 4 ft. long 2 ft. high W. of cor.

(Note.) Meanders cors. on N. side of river could not be set, as the line follows the edge of water.

Thence on the tangent.

78.00 Telephone line from Brigham to Bear River Gun, Knudson and Duckville Clubs bears N. W. and S. E.

78.40 Road from Brigham City to Bear River Gun, Knudson and Duckville Clubs bears N. W. and S. E.

Difference between measurements of 80.00 chs. by two sets of chainmen is 16 lks., position of middle point.

By 1st set 79.92 chs.

By 2nd set 80.08 chs., the mean of which is

80.00 N. 88.5 lks from the tangent.

Set a porphyry 18x12x5 ins 12 ins. in the ground for standard cor. to secs. 31 and 32, marked S. C. on N. with 5 grooves on E. and 1 groove on W. face; dig pits 24x18x12 ins. crosswise on each line E. and W. 3 ft. and N. of stone 7 ft dist. and raise a mound of earth 4 ft. base, 2 ft. high N. of cor.

No trace of old cor. could be found.

Land level.

Soil sandy loam with alkali. 3d rate.

No timber.

S. 89° 52' W. on the tangent S. of sec. 31.

Over flat land.

RE 4 OF THE 2nd STANDARD PARALLEL N. THROUGH R. 3 W.

CHAINS

10.50 Flood canal flows S. W.

Difference between measurement of 40.00 chs. by two sets of chainmen is 6 lks. position of middle point.

By 1st set 40.03 chs.

By 2nd set 39.97 chs., the mean of which is

40.00 N. 97.57 lks. from the tangent.

Set a porphyry 18x10x4 ins. 12 ins. in the ground for standard 1/4 Sec cor. marked S. C. 1/4 on N. face; dig pits 18x18x12 ins. E. and W. of stone 3 ft. dist., and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor. No trace of old cor. could be found.

Difference between measurement of 80.00 chs. by two sets of chainmen is 8 lks., position of middle point.

By 1st set 80.04 chs.

By 2nd set 79.96 chs., the mean of which is

80.00 N. 107.5 lks. from the tangent.

Set a porphyry 18x12x6 ins. 12 ins. in the ground for standard cor. of Tps. 9 N. Rs. 3 and 4 W. marked S. C. on N. with 6 grooves on N., E., and W. faces; dig pits 30x24x12 ins., crosswise on each line E. and W. 4 ft. and N. of stone 8 ft. dist., and raise a mound of earth 5 ft. base, 2 1/2 ft high N. of cor.

No trace of old cor. could be found.

Land level.

Soil sandy loam with alkali. 3d rate.

No timber.

GENERAL DESCRIPTION.

Through ranges 2 and 3 this line runs through farming and low alkali flat; the first 1 3/4 miles descends slightly; it can be classed good farming land.

Alfredo R Talamantes
U S Deputy Surveyor

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PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Alfredo R Talamantes, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the re survey of the 2nd Standard Parallel N through Rs. 2 and 3 W, Salt Lake Base and Meridian Utah showing the respective capacities in which they acted:

John Burt William H Dunn, Chainman.
Martin Rasmussen Vinson F Davis, Chainman.
Martin Rasmussen, Moundman.
, Moundman.
, Axman.
, Axman.
John Burt, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alfredo R Talamantes, United States Deputy Surveyor, in re surveying all those parts or portions of the 2nd Standard Parallel N through Rs. 2 and 3 W, of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been re surveyed by him and under his direction; and that said re survey has been in all respects, to the best of our knowledge and belief, well and faithfully re surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah

John Burt William H Dunn, Chainmen.
Martin Rasmussen Vinson F Davis, Chainmen.
Martin Rasmussen, Moundman.
, Moundman.
, Axman.
, Axman.
John Burt, Flagman.

Subscribed and sworn to before me this 21st day of Nov 1905, ~~189~~

SEAL

Alfredo R Talam
U S Deputy Surveyor

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alfredo R Talamantes, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H Anderson United States Surveyor General for Utah, bearing date of the 21st day of Jan, 1905, 189 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of 2nd Standard Parallel N through Rs 2 and 3 W

of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Alfredo R Talamantes
United States Deputy Surveyor.

Subscribed by said Alfredo R. Talamantes, and sworn to before me this 2nd day of January 1906, 189

Thomas Hull
U. S. Surveyor General for Utah.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City Utah March 20, 1906

The foregoing field notes of the survey of the Second Standard Parallel North through Ranges 2 and 3 West of the Salt Lake Base and Meridian, Utah

executed by Alfredo R. Talamantes under his contract No. 286, dated January 21, 1905, 189 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in ; has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-334

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FIELD NOTES

OF THE SURVEY OF THE

2nd Standard Parallel N.
through Range 4 W.

of the Salt Lake Base and Meridian,
Utah

AS SURVEYED BY

Alfredo R. Talamantes, United States Deputy Surveyor,

Under his Contract No. 286, dated Jan. 21, 1905, 189

Survey commenced Nov. 16, 1905, 189

Survey completed Nov. 16, 1905, 189

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BOOK A-334

NAMES AND DUTIES OF ASSISTANTS.

William H Dunn	Chainman
Vinson F Davis	Chainman
John Burt	chainman
Martin Rasmussen	chainman
Martin Rasmussen	Roundsman
John Burt	Flagman

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R0334

BOOK A-334

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PRELIMINARY OATHS OF ASSISTANTS.

We, John Burt William H Dunn Martin Rasmussen and Vinson

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

2nd Standard Parallel N through R 4 W Salt Lake Base and Meridian Utah

John Burt William H Dunn, Chainman.

Martin Rasmussen Vinson F. Dunn, Chainman.

Subscribed and sworn to before me this 21st day of Nov 1905, 189

Alfredo R Talamantes
U S Deputy Surveyor

SEAL

We, Martin Rasmussen and

do solemnly swear that we will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

2nd Standard Parallel N through R 4 W Salt Lake Base and Meridian Utah

Martin Rasmussen, Moundman.

, Moundman.

Subscribed and sworn to before me this 21st day of Nov 1905, 189

Alfredo R Talamantes
U S Deputy Surveyor

SEAL

We, and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

, Axman.

, Axman.

Subscribed and sworn to before me this day of , 189

SEAL

I, John Burt, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of 2nd Standard Parallel N through R 4 W Salt Lake Base and Meridian Utah

John Burt, Flagman.

Subscribed and sworn to before me this 21st day of Nov 1905, 189

Alfredo R Talamantes
U S Deputy Surveyor

SEAL

SURVEY OF THE 2nd STANDARD PARALLEL N. THROUGH R. 4 W.

CHAINS	
	Survey commenced November 16, 1905, and executed with a W. and L. E. Gurley light mountain transit, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minute of arc which is also the least count of the verniers of the latitude and declination arcs.
	The instrument was examined, tested on the true meridian at Salt Lake City, and found correct, and was approved by the surveyor general for Utah, June 3, 1904.
	I begin at the standard cor. of Tps. 9 N. Rs. 3 and 4 W. which I established Nov. 15, 1905. Latitude 41° 27' 43" N., longitude 112° 14' 35" W. at 3 h. 43.4 m. a. m. l. m. t. I observe Polaris at western elongation in accordance with instructions in the Manual, and mark the line thus determined by a tack driven in a stake set in the ground 5 chs. N. of my station.
	At 6 a. m. I lay off the azimuth of Polaris 1 35' to the east and mark the true meridian thus determined by a tack driven in a stake firmly set in the ground, east of the point established in line at the western elongation. The magnetic bearing of said true meridian is N. 18° W., which gives the magnetic declination 18° E.
	From the standard cor. above described I run
	West on the tangent S. of sec. 36.
25.40	Flood canal flows S. W.
	Difference between measurement of 40.00 chs. by two sets of chainmen is 4 lks., position of middle point.
	By 1st set 40.02 chs.
	By 2nd set 39.98 chs., the mean of which is
40.00	N. 1/4 lks from the tangent.
	Set a porphyry stone 20x11x5 ins. 15 ins in the ground for standard 1/4 sec. cor., marked S. C. 1/4 on N. face; dig pits 18x18x12 ins. E. and W. of stone, 3 ft. dist., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft high N. of cor.

CHAINS	
78.00	No trace of old cor. could be found.
	Difference between measurement of 80.00 chs. by two sets of chainmen is 10 lks., position of middle point.
	By 1st set 79.95 chs.
	By 2nd set 80.05 chs., the mean of which is
80.00	N. 0.90 lks from the tangent.
	Set a cedar post 3 1/2 ft. long 4 ins. sq. with marked stone, 24 ins. in the ground for standard cor. of secs. 35 and 36, marked S. C. T. 9 N. R. 4 W. on N., S. 36 on E. and S. 35 on W. face, with 1 groove on E. and 5 grooves on W. face.; dig pits 24x18x12 ins. crosswise on each line E. and W. 3 ft. and N. of post 7 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high N. of cor.
	Land level.
	Soil sandy loam with alkali. 3d rate.
	No timber.
	S. 89° 59 W. on the tangent S. of sec. 35.
	Over bottom land.
4.95	Enter into wide and shallow overflow. Flows S. W.
33.30	Leave overflow flows S. W.
	Difference between measurement of 40.00 chs. by two sets of chainmen is 4 lks., position of middle point.
	By 1st set 40.02 chs.
	By 2nd set 39.98 chs., the mean of which is
40.00	N. 2.00 lks. from the tangent.
	Set a cedar post 3 1/2 ft. long 4 ins. sq. with marked stone 24 ins. in the ground for standard 1/4 sec. cor. marked S. C. 1/4 S. 35 on N. face and S. 2 on S.; dig pits 18x18x12 ins. E. and W. of post, 3 ft dist, and raise a mound of earth 3 1/2 ft base, 1 1/2 ft. high, N. of cor.
	Difference between measurement of 80.00 chs. by two sets of chainmen is 8 lks., position of middle point.
	By 1st set 79.96 chs.
	By 2nd set 80.04 chs., the mean of which is

SURVEY OF THE 2nd STANDARD PARALLEL N. THROUGH R. 4 W.

CHAIN

80.00 N. 3.5 lks. from the tangent.

Set a cedar post 3 1/2 ft. long 4 ins. sq. with marked stone 24 ins. in the ground for standard cor. of secs. 34 and 35, marked S. C. T. 9 N. R. 4 W. on N., S. 35 on E. and S. 34 on W. face, with 2 grooves on E. and 4 grooves on W. face; dig pits 24x18x12 ins. crosswise on each line E. and W. 3 ft. and N. of post 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high N. of cor.

Land level.

Soil sandy loam with alkali. 3d rate.

No timber.

Knowing that the Great Salt Lake will be reached within less than 1/2 mile, I discontinue the survey of 2nd standard Parallel N. at this cor.

For general description see subdivision notes.

Alfredo R. Talamantes

U.S.Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Alfredo R. Talamantes, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of 2nd Standard Parallel N through R. 4 W. Salt Lake Base and Meridian Utah showing the respective capacities in which they acted:

John Burt, William H Dunn, Chainman.
Martin Rasmussen, Vinson F. Davis, Chainman.
Martin Rasmussen, Moundman.
, Moundman.
, Axman.
John Burt, Flagman, ~~Axman~~.
, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alfredo R. Talamantes, United States Deputy Surveyor, in surveying all those parts or portions of the 2nd Standard Parallel N through R. 4 W. of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah

John Burt William H Dunn, Chainman.
Martin Rasmussen Vinson F. Davis, Chainman.
Martin Rasmussen, Moundman.
, Moundman.
, Axman.
, Axman.
John Burt, Flagman.

Subscribed and sworn to before me this 21st day of Nov 1905, ~~189~~

Alfredo R Talamantes
U S Deputy Surveyor

SEAL

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alfredo R Talamantes, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H Anderson United States Surveyor General for Utah, bearing date of the 21st day of Jan 1905, 189 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of 2nd Standard Parallel N through R. 4 W

of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Alfredo R Talamantes
United States Deputy Surveyor.

Subscribed by said Alfredo R. Talamantes and sworn to before me this 2d day of January 1906, 189

Thomas Hull
U. S. Surveyor-General
for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 20, 1906.

The foregoing field notes of the survey of 2nd Standard Parallel North through Range 4 West of the Salt Lake Base and Meridian, Utah executed by Alfredo R. Talamantes under his contract No. 286, dated January 21 - 1905, 189 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in ....., has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-334

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FIELD NOTES

OF THE Re SURVEY OF THE

E. Bdy. T. 9 S. R. 4 W.

of the Salt Lake Base and Meridian,

Utah

AS SURVEYED BY

Alfred R. Talmadge, United States Deputy Surveyor,

Under his Contract No. 286, dated June 21 1905, ~~190~~

Survey commenced Nov. 16 1905, ~~190~~

Survey completed Nov. 16 1905, ~~190~~

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BOOK A-334

NAMES AND DUTIES OF ASSISTANTS.

William H. Denny	Chainman
Vinson F. Davis	Chainman
Martin Rasmussen	Moundsman
John Burt	Flagman

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PRELIMINARY OATHS OF ASSISTANTS.

WE, William H Dunn and Vinson F Davis

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the E Bdy of T 9 N R 4 W Salt Lake Base and Meridian Utah

William H Dunn, Chainman.

Vinson F. Davis, Chainman.

Subscribed and sworn to before me this 21st day of Nov 1905, 189

SEAL

Alfredo R Talamantes
U S Deputy Surveyor

~~WE,~~ I Martin Rasmussen ~~and~~

do solemnly swear that ~~we~~ will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of the E Bdy of T 9 N R 4 W Salt Lake Base and Meridian Utah

Martin Rasmussen, Moundman.

, Moundman.

Subscribed and sworn to before me this 21st day of Nov 1905, 189

SEAL

Alfredo R Talamantes
U S Deputy Surveyor

WE, and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

, Axman.

, Axman.

Subscribed and sworn to before me this day of, 189

SEAL

I, John Burt, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the E Bdy of T 9 N R 4 W Salt Lake Base and Meridian Utah

John Burt, Flagman.

Subscribed and sworn to before me this 21st day of Nov 1905, 189

SEAL

Alfredo R Talamantes
U S Deputy Surveyor

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R U TY O PART O THE BDY T R. W

CH. NS

Resurvey commenced November 16, 1905, and executed with a W. and L. E. Gurley light mountain transit, the horizontal limb being provided with two opposite verniers reading to one single minute of arc.

I begin at the standard cor. of Tp. 9 N. Rs. 3 and 4 W. which I established Nov. 15, 1905, latitude 41 27' 43" N. longitude 112 14' 35" W.

At this cor. at 2 h. 00 m. p. m., I sighted to the true meridian established by me this morning.

Thence I run

North bet. secs. 31 and 36.

Over flat land.

14.97 Flood canal flows S. W.

40.00 Set a porphyry stone 20x11x5 ins. 15 ins in the ground for 1/4 sec. cor marked 1/4 on W. face; dig pits 18x18x12 ins. N. and S. of stone 3 ft. dist., and raise a mound of earth 3 1/2 ft base 1 1/2 ft. high W. of cor.

No trace of old cor. could be found.

70.65 Wire fence bears N. W. and S. E.

73.12 Telephone line from Brigham City to Duckville Club bears E. and W.

73.30 Road from Brigham City to Duckville Club bears E. and W.

73.52 Wire fence bears E. and W.

80.00 Set a porphyry stone 20x10x6 ins. 15 ins. in the ground for cor of secs. 25, 30, 31, and 36, marked with 1 notch on S. and 5 notches on N. edge; dig pits 18x18x12 ins. in each sec. 5 1/2 ft dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

No trace of old cor. could be found.

Land level.

Soil sandy loam with alkali. 3d rate.

No timber.

North bet. secs. 25 and 30.

Over flat land.

6.30 Yard. Wire fence bears E. and W.

RESURVEY OF PART OF THE E. BDY. OF T. 9 N. R. 4 W.

CHAINS	
7.50	Knowing that the left bank of Bear River could not be reached, a building being situated at the edge of the bank, I therefore, at this point, set a cedar post 3 1/2 ft. long 4 ins. sq. with marked stone 24 ins in the ground for witness meander cor. to fract. secs. 25 and 30, marked M. C. W. C. on N., T. 9 N. on S., R. 3 W. S. 30 on E., and R. 4 W. S. 25 on W. face; dig a pit 36x36x12 ins. 8 ft. S. of post, and raise a mound of earth 4 ft. base 2 ft. high S. of cor.
	From this cor. an old ice house 12x14 ft. the N. E. cor of which bears S. 61 50' W. 46 lks., course of long side N. and S.
	A cabin 15x22 ft. the S. E. cor of which bears N. 84 20' W. 153 lks. course of long side E. and W.
	A cabin 12x14 ft. the S. E. cor. of which bears N. 73 20' W. 160 lks. course of long side N. and S.
	The meander cor. to fract. secs. 25 and 30 on right bank of river bears N. 56 03' E. 5.57 chs. Said cor. was set by me under contract No. 256.
7.70	S. side of a boat house 10x30 ft., course of long side N. and S.
8.15	Left bank of Bear River, flows S. 70 W.
	Land level.
	Soil Sandy loam. 2nd Rate.
	No timber.
	For general description see subdivision notes.

Nov. 16, 1905.

Alfredo R Tolamantes

U.S.Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Alfredo R. Talamantes United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the E Bdy of T. 9 N., R. 4 W. Salt Lake Base and Meridian Utah showing the respective capacities in which they acted:

William H. Dunn ..... Chainman.
Vinson F. Davis ..... Chainman.
Martin Rasmussen ..... Moundman.
..... Moundman.
..... Axman.
..... Axman.
John Burt ..... Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alfredo R. Talamantes United States Deputy Surveyor, in surveying all those parts or portions of the E. bdy. of T. 9 N. R. 4 W. of the Salt Lake Base and meridian, of the State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah

William H. Dunn ..... Chainman.
Vinson F. Davis ..... Chainman.
Martin Rasmussen ..... Moundman.
..... Moundman.
..... Axman.
..... Axman.
John Burt ..... Flagman.

Subscribed and sworn to before me this 21st day of Nov 1905, 189

Alfredo R. Talamantes
U. S. Deputy Surveyor

SEAL

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alfredo R Talamantes, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H Anderson United States Surveyor General for Utah, bearing date of the 21st day of Jan. 1905, 189 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, resurveyed all those parts or portions of the E Bdy of T 9 N R 4 W, 2nd [illegible]

of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been resurveyed by me, and under my direction; and I do further solemnly swear that all the corners of said resurvey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such resurvey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Alfredo R Talamantes
United States Deputy Surveyor.

Subscribed by said Alfredo R. Talamantes, and sworn to before me this 2d day of January 1906, 189

Thomas Hull
U. S. Surveyor-General for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 20 1906

The foregoing field notes of the resurvey of part of the East Boundary of Township 9 North, Range 4 West of the Salt Lake Base and Meridian, Utah

executed by Alfredo R. Talamantes under his contract No. 286, dated Jan. 21-1905, 189 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the resurveys they describe, are hereby approved.

Thomas Hull
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in ....., has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-334

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FIELD NOTES

OF THE SURVEY OF THE

Subdivisions and Meanders
T 9 N. R. 4 W.

Of the Salt Lake Base and Meridian,
Utah

AS SURVEYED BY

Alfredo R Talamantes, United States Deputy Surveyor,

Under his Contract No. 286, dated Jan 21 1905, 189

Survey commenced Nov 17 1905, 189

Survey completed Nov 18 1905, 189

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BOOK A-334

NAMES AND DUTIES OF ASSISTANTS.

William H Dunn	Chainman
Vinson F Davis	Chainman
Martin Rasmussen	Moundman
John Burt	Flagman

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PRELIMINARY OATHS OF ASSISTANTS.

WE, William H. Dunn and Vinson F. Davis

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level th chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; tha we will report the true distances to all notable objects, and the true lengths of all lines that we assist i measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey c Subdivision and Meanders T 9 N, R 4 W, Salt Lake Base and Meridian Utah

William H. Dunn, Chainma.

Vinson F. Davis, Chainma.

Subscribed and sworn to before me this 21st day of Nov 1905, ~~189~~

Alfredo R. Talamo
U S Dupety Surveyor

SEAL

I ~~WE~~, Martin Rasmussen ~~and~~

do solemnly swear that ~~we~~ I will well and truly perform the duties of moundmen in the establishm of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey Subdivision and Meanders T 9 N, R 4 W, Salt Lake Base and Meridian Utah

Martin Rasmussen, Moundma.

, Moundma.

Subscribed and sworn to before me this 21st day of Nov, 1905, ~~189~~

Alfredo R. Talamo
U S Dupety Surveyor

SEAL

WE, and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corr and other duties, according to instructions given us, to the best of our skill and ability, in the survey c

, Axma.

, Axma.

Subscribed and sworn to before me this
day of , 189

SEAL

I, John Burt, do solemnly swear that I will well and trul perform the duties of flagman according to instructions given me, to the best of my skill and ability, in th survey of Subdivision and Meanders T 9 N, R 4 W, Salt Lake Base and Meridian Utah

John Burt, Flagman

Subscribed and sworn to before me this 21st day of Nov 1905, ~~189~~

Alfredo R. Talamo
U S Deputy Surveyor

SEAL

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NS

SUBDIVISION OF T. 9 N. R. 4 W.

Survey commenced Nov. 17, 1905, and executed with a W. and L. E. Gurley light mountain transit with solar attachment. The horizontal limb is provided with two verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, June 3, 1904.

I begin at the standard cor. of secs. 35 and 36 which I established Nov. 16, 1905, latitude 41° 27' 43" N., longitude 112° 15' 44" W., at 3 h. 39.4 m. a. m. l. m. t.

I observe Polaris at western elongation in accordance with instructions in the Manual, and mark the line thus determined by a tack driven in a stake set in the ground 5 chs. N. of my station.

At 7 a. m. l. m. t. I lay off the azimuth of Polaris 1° 35' to the east, and mark the true meridian thus determined by a tack driven in a stake firmly set in the ground east of the point established in the line at western elongation. The magnetic bearing of said true meridian is N. 18° 05' W., which gives the magnetic declination 18° 05' E.

From the standard cor. above described I run N. 0° 01' W. bet. secs. 35 and 36.

Over level bottom land.

26.00 Overflow 5.00 chs. wide, 8 ins. deep flows S. W.

40.00 Set a cedar post 3 1/2 ft. long 4 ins sq. with marked stone 24 ins. in the ground for 1/4 sec. cor., marked 1/4 S. 35 on W. and S. 36 on E. face; dig pits 18x18x12 ins N. and S. of post, 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W. of cor.

44.00 Overflow 50 lks wide 1 1/2 ft. deep flows S. E.

65.00 Joe Hansen cabin bears S. 64° 30' E. 13.00 chs.

SUBDIVISION OF T. 9 N. R. 4 W.

CHAINS

72.38 Being unable to reach the left bank of Bear River on account of buildings, I set a cedar post 3 1/2 ft. long 4 ins sq. with marked stone, 24 ins. in the ground for witness meander cor. to fracl. secs. 35 and 36, marked W. C. M. C. on N.; T. 9 N. on S.; R. 4 W. S. 36 on E., and S. 35 on W. face; dig pits crosswise on each line 36x36x 12 ins. 8 ft. S. of post, and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

From this cor. a cabin 20x12 ft. the S. E. cor. of which bears N. 15°30' W. 84.00 lks, course of long side E. and W.

Boat house 24x12 ft. the S. W. cor. of which bears N. 69°W. 190 lks. course of long side N. and S.

Ice house 14x12 ft. the S. W. cor. of which bears N. 69° 33' W. 2.30 chs. course of long side N. and S.

Duck house 12x12 ft. S. E. cor. of which bears N. 84° 15' W. 3.80 chs. course of one side N. and S.

72.44 Out house 6 ft. sq. on line.

73.25 S. side of Duckville Club house 12 ft from the west end on line.

74.48 Left bank of Bear River flows S. 74°30' W. also N. side of Duckville Club house 20.8 ft. from the west end the size of the house being 68x24 ft. wide with an L 26x 24 ft on the S. W. part; course of long side N. 74°15' E.

Land level.

Soil sandy loam. 2nd rate.

No timber.

From witness meander Cor. of fracl. secs. 35 and 36 just set I run

East on offset random line

40.00 Set a temp. 1/4 sec. cor. 7.62 chs. N. of this point

80.00 Intersect the E. bdy. of Tp. 7.62 chs. S. of cor. of secs. 25, 30, 31, and 36 heretofore described.

SUBDIVISION OF T. 9 N. R. 4 W.

Thence I run

West on a true line bet. secs. 25 and 36.

Over level land.

17.42 Left bank of Bear River flows S. 60° 56' W.

Set a cedar post 3 1/2 ft. long 4 ins. sq. with mark ed stone 24 ins. in the ground for meander cor. of fracl. secs 25 and 36, marked,

M C on W.

T. 9 N. on E.

R.4 W S 25 on N., and

S. 36 on S. face; dig a pit 36x36x12 ins. 8 ft E. of post, and raise a mound of earth 4 ft. base, 2 ft. high, E. of cor.

Being unable to run this line any further on this co rse, I offset as follows:

South 5.10 chs.

West 17.64 chs.

North 5.10 chs., counting from sec cor.

35.06 Left bank of Bear River flows N. 60° W.

Set a cedar post 3 1/2 ft. long 4 ins. sq. with mark ed stone, 24 ins. in the ground for meander cor. of fracl. secs. 25 and 36, marked,

M C on E.

T 9 N on W.

R 4 W. S 25 on N., and

S 36 on S. face: dig a pit 36x36x12 ins. 8 ft. W. of post, and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

40.00 Set a porphyry stone 18x12x4 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18x18x12 ins. E. and W. of stone 3 ft. dist., and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.

74.90 Left bank of Bear River flows S. W.

SUBDIVISION OF T 9 N. R 4 W.

CHAINS

Set a cedar post 3 1/2 ft. long 4 ins. sq. with marked stone, 24 ins. in the ground for meander cor. of fracl. secs. 25 and 36, marked,

M C on W.

T 9 N on E.

R 4 W S 25 on N., and

S 36 on S. face; dig a pit 36x36x12 ins. 8 ft. E. of post, and raise a mound of earth, 4 ft. base, 2 ft. high E. of cor.

Being unable to run this line any further on this course, I offset as follows:

South 7.62 chs.

West 5.10 chs., counting from sec. cor.

80.00 The witness meander cor. of fracl. secs. 35 and 36.

Land level.

Soil sandy loam. 1st rate.

No timber.

From the standard cor. of secs. 34 and 35 I run

N. 0° 02' W. bet. secs. 34 and 35.

Over level land.

40.00 Set a cedar post 3 1/2 ft. long 4 ins sq., with marked stone, 24 ins. in the ground for 1/4 sec. cor., marked 1/4 S 34 on W. and S 35 on E. face; dig pits 18x18x12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

50.78 Left bank of No. 3 overflow 4 ft. deep flows S. W.

52.38 Right bank of No. 3 overflow 4 ft. deep flows S. W.

63.00 No. 3 1/2 overflow 1.50 chs. wide, 3 ft deep, flows S. W.

(Note.) Both of these overflows empty into the Great Salt Lake about 20 chs. from sec. line.

80.00 Set a pine post 4 ft. long, 4 ins. sq. with marked

stone, 24 ins. in the ground for cor of secs. 26,27,34, and 35, marked T. 9 N. S. 26 on N. E., R. 4 W. S. 35 on S. E., S. 34 on S. W., and S. 27 on N. W. face, with 1 notch on S. and 2 notches on E. edges; dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Land level.

Soil sandy loam. 1st rate.

No timber.

Knowing that running east bet. secs. 26 and 35 would cross the river 3 times, I proceed to run a random offse line as follows:

S. 0° 02' E. 10.00 chs.

East on a random offset line.

40.00 The point for 1/4 cor. falls on N. side of river.

80.00 Intersect N. and S. line at S. 0° 01 E. 2.38 chs. fro the witness meander cor. of fracl. secs. 35 and 36 hereto fore described.

From witness meander cor. I run west on offset line.

West 10.49 chs.

North 7.62 chs. to sec. line bet. secs. 26 and 35, counting from point of sec. cor.

10.49 Left bank of Bear River flows N. W.

Set a cedar post 3 1/2 ft. long 4 ins. sq. with marked stone 24 ins. in the ground for meander cor. of fracl. secs. 26 and 35, marked M. C. on E., T. 9 N. on W., R. 4 W. S. 26 on N. and S. 35 on S. face; dig pit 36x36x12 ins. 8 ft. W. of post, and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Thence West.

21.83 Left bank of Bear River flows S. 71° 50' W.

Set a cedar post 3 1/2 ft. long 4 ins. sq. with marked stone, 24 ins. in the ground for meander cor. of frac secs. 26 and 35, marked M. C. on W., T. 9 N. on E., R. 4

SUBDIVISION OF T. 9 N. R. 4 W.

W. S 26 on N. and S. 35 on S. face; dig a pit 36x36x12 ins. 8 ft. E. of post, and raise a mound of earth 4 ft. base, 2 ft. high E. of cor.

From this cor. I offset as follows:

South 10.00 chs.

West 31.25 chs.

North 10.00 chs. to sec. line counting from point of sec.cor.

53.08 Left bank of Bear River flows N. W.

Set a cedar post 3 1/2 ft. long 4 ins. sq. with marked stone, 24 ins. in the ground for meander cor. of fracl. secs. 26 and 35 marked M. C. on E., T 9 N. on W., R. 4 W. S. 26 on N. and S. 35 on S. face; dig a pit 36x36x12 ins. 8 ft. W. of post, and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.

(Note.) The point for 1/4 sec. cor. falls on N. side of Bear River.

Thence W.

80.00 The cor. of secs. 26, 27, 34, and 35.

Land level.

Soil sandy.loam. 1st rate.

No timber.

N. 0° 02' W. bet. secs. 26 and 27.

Over level land.

18.46 Left bank of Bear River; at this point the river flows into Great Salt Lake.

Set a cedar post 3 1/2 ft. long 4 ins. sq. with marked stone, 24 ins. in the ground for meander cor. of fracl. secs. 26 and 27, marked M. C. on N., T. 9 N. on S., R. 4 W S 26 on E. and S. 27 on W. face; dig a pit 36x36x12 ins. 8 ft. S. of post, and raise a mound of earth 4 ft. base, 2 ft. high, S. of cor.

Land level.

Soil sandy loam. 1st rate.

No timber.

MEANDERS T. 9 N. R. 4 W.

Meanders of the left bank of Bear River up stream.

I commence at the meander cor. of fracl. secs. 26 and 27 set by me Nov. 17, 1905.

At this cor. November 18, I set off 41° 29' on the lat. arc., 19°08' S. on the decl. arc, and at 8 h.45.m.a m. l. m. t. determine a meridian with the solar.

Thence I run with meanders in sec. 26.

Over level land.

S. 76° 30' E. 26.45 chs.

S. 25° 30' W. 6.27 chs.

S. 30° 30' E. 7.68 chs. to meander cor. of fracl. secs. 26 and 35.

Land level.

Soil sandy loam. 1st rate. No timber.

Thence in sec. 35.

Over level land.

S. 18° 30' E. 2.16 chs. 100 lks. to No. 3 1/2 overflow 100 lks. wide, 3 ft. deep, flows S. W.

S. 65° 30' E. 9.35 chs. 30 lks. right bank of No. 3 overflow 9.00 chs. left bank, flows S. W.

N. 77° 30' E. 12.01 chs. 2.00 chs.; the Bear River to this point should not be classed as being navigable.

N. 71° 50' E. 10.27 chs. to meander cor. of fracl. secs. 26 and 35.

Land level.

Soil sandy loam. 1st rate.

No timber.

Thence in sec. 26.

N. 71° 50' E. 3.15 chs.

N. 87° 20' E. 4.20 chs.

S. 74° 15' E. 4.31 chs. to meander cor. of fracl. secs. 26 and 35.

Land level.

Soil sandy loam. 1st rate.

No timber.

MEANDERS T. 9 N. R. 4 W.

CHAINS	
	Thence in sec. 35.
	Over level land.
	S. 44° E. 9.28 chs, 4.00 chs. Fred Hansen cabin bears south 30 lks., size of cabin 14x12 ft. course of long side E. and W.
	7.00 chs. No. 2 1/2 overflow 1.20 chs. wide 3 ft. deep flows S. W.
	8.50 chs. No. 2 Overflow 1.10 chs. wide, 3 ft. deep flows S. W.
	N. 74°15' E. 4.21 Chs. To sec. line bet. secs 35 and 36 at a point 2.10 chs. N. 0 01' W. from witness meander cor of fracl. secs. 35 and 36.
	Land level.
	Soil sandy loam. 1st rate.
	No timber.
	Thence in Sec. 36.
	From a point N. 0°01' W. 2.10 chs. from witness meander cor. of fracl. secs. 35 and 36 I run
	N. 74° 15' E. 3.40 chs.
	2.45 chs. No. 1 overflow 1 ch. wide 2 1/2 ft. deep flows S. E.
	N. 21°41' E. 4.96 chs. To meander cor of fracl. secs 25 and 36.
	Land level.
	Soil sandy loam. 1st rate.
	No timber.
	Thence in sec. 25.
	N. 44° E. 5.83 chs.
	N. 84° E. 5.75 chs.
	S. 68° 30' E. 11.55 chs.
	N. 66°45' E. 10.00 chs.
	S. 74° 45' E. 5.69 chs.
	S. 58° 00' E. 5.51 chs. to meander cor of fracl. secs. 25 and 36.
	Land level.

CHAINS MEANDERS T N. R. W.

Soil sandy loam. 1st rate.

No timber.

Thence in sec. 36.

S. 59°52' E. 19.98 chs.

N. 60°56' E. 10.31 chs. to meander cor. of fracl. secs. 25 and 36.

Land level.

Soil sandy loam. 1st rate. No timber

Thence in sec. 25.

N. 57°30' E. 11.21 chs.

N. 75°19' E. 8.21 chs. At a point on Tp. line bet. secs. 25 and 30 N, 65 lks. from witness meander cor. of fracl. secs. 25 and 30.

Land level.

Soil sandy loam. 1st rate.

No timber.

November 18, 1905.

GENERAL DESCRIPTION.

The part of this Tp. surveyed by me consists entirely of level bottom land. The soil in the southern portion contains considerable alkali. The soil in the north and eastern part of sec. 36 is black loam and the S. bank of Bear River is covered with a good growth of nutritious grasses, furnishing suitable pasture for cattle and horses There is no timber on the portion of the Tp. surveyed.

There is no mineral in this Tp.

The following settlers and improvements were found in this survey:

Joseph Hansen, located in N.W. 1/4 sec. 36.

Acres of land under cultivation, none.

Value of improvements, $300.00

Fred Hansen, located in N. E. 1/4 sec. 35

Acres of land under cultivation, none.

Value of improvements, $100.00

MEANDERS T. 9 N. R. 4 W.

CHAINS

Duckville Club, located in N. W. 1/4 sec. 36 and N. E. 1/4 sec. 35.

Acres of land under cultivation, none.

Value of improvements, $2,000.00

Bear River Gun Club, located in S. E. 1/4 sec. 25.

Acres of land under cultivation, none.

Value of improvements, $500.00

Note: There being no notary public or other officer authorized to administer oaths within reasonable distance at the beginning and ending of this survey, in order to save time and expense, I administer the preliminary and final oaths for contract No. 286.

Alfredo R. Talamantes

U. S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Alfredo R Talamantes United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Subdivision and Meanders T 9 N, R 4 W, Salt Lake Base and Meridian Utah showing the respective capacities in which they acted:

William H Dunn, *Chainman.*
Vinson F Davis, *Chainman.*
Martin Rasmussen, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
John Burt, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alfredo R Talamantes United States Deputy Surveyor, in surveying all those parts or portions of the Subdivision and Meanders T 9 N R 4 W of the Salt Lake Base meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

William H Dunn, *Chainman.*
Vinson F. Davis, *Chainman.*
Martin Rasmussen, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
John Burt, *Flagman.*

Subscribed and sworn to before me this 21st day of Nov 1905, 189

SEAL

Alfredo R Talamantes
U.S. Deputy Surveyor

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alfredo R. Talamantes, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the 21st day of Jan, 1905, 189\, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of Subdivision and Meanders of T. 9 N. R. 4 W.

of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Alfredo R. Talamantes
United States Deputy Surveyor.

Subscribed by said Alfredo R. Talamantes, and sworn to before me this 2d day of January 1906, 189\

Thomas Dell
U. S. Surveyor-General
for Utah.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, March 20 1906 189\

The foregoing field notes of the survey of Subdivision and Meanders of Township 9 North Range 4 West of the Salt Lake Base and Meridian, Utah,

executed by Alfredo R. Talamantes under his contract No. 286, dated January 21 - 1905, 189\, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Dell
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in ..... has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-334

A.

FIELD NOTES

RE

OF THE SURVEY OF THE

GUIDE MERIDIAN

TOWNSHIP NO.2 SOUTH,

BETWEEN

RANGES 8 AND 9 WEST

Of the SALT LAKE BASE AND *Meridian,*

UTAH

AS SURVEYED BY

Alonzo J.Stookey, *United States Deputy Surveyor,*

Under his Contract No. 290, *dated* June 1, *190* 5.

Survey commenced November 3, *190* 5.

Survey completed November 4, *190* 5.

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2-35-00

3-44-00

BOOK A-334

NAMES AND DUTIES OF ASSISTANTS.

David Sharp, Jr.	Chainman.
Leonard Scott,	Chainman.
Newell St.Jeor,	Chainman.
Lincoln A.Stookey,	Chainman.
Newell St.Jeor,	Moundman.
Lincoln A.Stookey,	Flagman.

BOOK A-334

INDEX DIAGRAM.

Township 2 South, *Range* 9 West

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Meanders Page

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PRELIMINARY OATHS OF ASSISTANTS.

WE, David Shaw Jr, Leonard Scott, Newell St Jeor, Lincoln A. Stookey,
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the resurvey of the Guide Meridian through Tp. 2 South, between Rs. 8 and 9 West of the Salt Lake Base and Meridian, Utah

David Shaw Jr. Newell St Jeor, Chainm.
Leonard Scott Lincoln A. Stookey, Chain.

Subscribed and sworn to before me this 15th day of November, 1905

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

~~WE,~~ Newell St Jeor and
do solemnly swear that ~~we~~ will well and truly perform the duties of moundman in the establishm. of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the resurvey of the Guide Meridian through Tp. 2 South, between Rs. 8 and 9 West of the Salt Lake Base and Meridian, Utah

Newell St Jeor, Moundm.
, Moundm.

Subscribed and sworn to before me this 15th day of November, 1905

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

WE, ... and .....
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corn. and other duties, according to instructions given us, to the best of our skill and ability, in the survey

, Axma
, Axma

Subscribed and sworn to before me this ..... day of ....., 190

SEAL

I, Lincoln A. Stookey, do solemnly swear that I will well and tru perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the resurvey of the Guide Meridian through Tp. 2 South, between Rs. 8 and 9 West of the Salt Lake Base and Meridian, Utah

Lincoln A. Stookey, Flagm.

Subscribed and sworn to before me this 15th day of November, 1905

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

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'e e.idian Townshi 2 South Bet.Rs 8 and 9 W.

Survey commenced Nov.3, 1905, and executed with a W. and L.E.Gurley light mountain transit, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Salt Lake City, found correct and was approved by the Surveyor General for Utah June 3, 1905.

I examine the adjustments of the transit and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during a.m.and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the cor.of Tps.2 and 3 S., Rs.8 and 9 W., which is a sandstone 16x10x6 ins. in md.of stones, lat.40° 35'38" N.; long.112° 48'20" W., I set off 40° 36'N. on the lat.arc; 15° 02'S.on the decl.arc; and at 3 h. 44 m.p.m.l.m.t.determine a meridian with the solar, and mark a point thereof on a plug firmly set in the ground 5.00 chs..N.of the cor.

Nov.3, 1905.

Nov.4, at 4 h.30 m.a.m.l.m.t.I observe Polaris at western elongation in accordance with Manual of Instructions, and mark a point in the line thus determined on a peg.. driven into the ground 5 chs.N.of my station.

At 7 a.m.l.m.t.I lay off the azimuth of Polaris 1° 35' to the east, and mark the meridian thus determined by cutting a small groove in the plug set Nov.3, on which the meridian falls 0.3 ins.east of the mark de-

termined by the solar.

At 7h.44m.a.m.l.m.t.I set off 40° 36'N.on the lat.arc; 15° 15'S.on the decl.arc; and mark a point in the meridian determined with the solar by a cross on the plug already set 5.00 chs.N.of my station; this mark falls 0.4 ins.E.of the meridian established by the Polaris observation.

The solar apparatus by p.m.and a.m.observations defines positions for meridians respectively about 0'16" W. and 21" E.of the meridian established by the Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h.30 m. a.m.is N. 17° 33'W.; the angle thus determined gives the mag.decl.17° 33'E.

Preliminary to commencing the subdivision of this township I run north on a blank line on the E.bdy.of sec. 36; at 40.00 chs.I find the ¼ sec.cor., which is a sandstone 5x10x5 ins.above ground S.83° E. 32 lks.dist. and at 80.00 chs.I find the cor.of secs.25,30,31, and 36, which is a sandstone 19x12x4 ins. above ground S.89° 00'E.55 lks.dist. I therefore continue my line north, but find no part of the E.bdy.in alinement; and most of the corners are nearly obliterated.

At 6 miles intersect E. and W.line 57 lks.W.of the cor. of Tps.1 and 2 S., Rs.8 and 9 W., which is a sandstone 14x10x5 ins. in mound of stone; and as there are no subdivisions dependent upon this line I resurvey it as follows:

Finding the old cor.of Tps.2 and 3 S., Rs.8 and 9 W. heretofore described, greatly decomposed by the action of salt, with which the soil is highly impreg-

e ne G de Me idian Throu h Townshi 2 South Bet.Rs.8 and 9

Chain.. nated, and the marks nearly obliterated, I destroy all traces of said corner, and re-establish it at the same point as follows:

Set a quartzite stone 18x8x7 ins., 12 ins.in the ground for cor.of Tps.2aand 3 S., Rs.8 and 9 W., marked

2 S on NE.

8 W on SE.

3 S on SW., and

9 W on NW.faces, with 6 notches on each edge; dig pits 24x24x12 ins.on each line N.E.and W.4 ft. and S.of stone 8 ft.dist.; and raise a mound of earth 5 ft.base, 2½ ft.high S.of cor.

Thence I run

North bet.secs.31 and 36,

Over almost level land; through dense greasewood undergrowth.

Difference bet.measurements of 40.00 chs.by two sets of chainmen is 4 lks.; position of middle point

By 1st set 40.02,chs.

By 2d set 39.98 chs., the mean of which is

40.00 Set a quartzite stone 15x8x8 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x12 ins.N. and S.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.

From this point the old ¼ sec.cor., which is a sandstone, badly decomposed, with marks nearly obliterated bears S.83° E.32 lks.dist. I destroy all trace of this cor.

44.00 Leave dense greasewood undergrowth. bears E. and W., and enter alkali flat.

68.00 Leave alkali flat and enter slightly undulating ground and dense greasewood undergrowth bears N.20° E. and S.20° E.

80.00 Difference between measurements of 80.00 chs.by two sets

Resurvey of Guide Meridian, Township 2 South.Bet.Rs.8 and 9 W.

Chains.

of chainmen is 6 lks.; position of middle point

By 1st set is 80.03 chs.

By 2d set is 79.97 chs., the mean of which is

80.00 Set a quartzite stone 15x7x6 ins., 10 ins.in the ground for cor.of secs.25,30,31, and 36, marked with 5 notches on N. and 1 notch on S.edges; dig pits 18x18x12 ins.in each sec.5½ ft.dist. ; and raise a mound of earth4 ft.base, 2 ft.high W.of cor.

From this cor.the old sec.cor.,above described, bears S 89° E.55 lks.dist.I destroy all traces of same.

Land level, or gently rolling.

Soil, sandy and saline; 2d rate.

No timber.

Undergrowth greasewood.

Land covered with dense undergrowth 56.00 chs.

North bet.secs.25 and 30,

Over slightly undulating ground; through dense greasewood and shadscale undergrowth.

Difference bet.measurements of 40.00 chs.by two set of chainmen is 4 lks.; position of middle point

By 1st set 40.02 chs.

By 2d set 39.98 chs.; the mean of which is

40.00 Set quartzite stone 15x7x7 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x12 ins.N. and S.of stone 3 ft.dist.; and raise a mound of earth 3½ ft. base, 1½ ft.high W.of cor.

From this point the old ¼ sec.cor.bears E.30 lks.dist. It is a sandstone much decomposed and lying loose on the ground. I destroy all traces of it.

Difference bet.measurements of 80.00 chs.by two sets of chainmen is 6 lks.; position of middle point

By 1st set 80.03 chs.

chains.

By 2d set 79.97 chs.; the mean of which is

80.00 Set a quartzite stone 15x7x5 ins.. 10 ins.in the ground for cor.of secs.19,24,25, and 30, marked with 4 notches on N. and 2 notches on S.edges; dig pits 18x18x12 ins.in each section 5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

All tr aces of the old sec.cor.have disappeared.

Land, gently rolling.

Soil, sandy and saline; 2d rate.

No timber.

Undergrowth greasewood and shadscale.

Land covered with dense undergrowth 80.00 chs.

North bet.secs .19 and 24,

Over gently rolling or level land; through dense shadscale and greasewood undergrowth.

Difference bet.measurements of 40.00 chs.by two sets of chainmen is 3 lks.; position of middle point,

By 1st set 40.01½ chs.

By 2d set 39.98½ chs.; the mean of which is

40.00 Set a quartzite stone 15x6x6 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x 12 ins. N. and S.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.

The old ¼ sec.cor.a sandstone 12x10x5 ins. much decomposed bears S.89° E. 30 lks.dist. I destroy all trace of same.

60.00 Leave dense undergrowth; enter alkali flat, bears E. and W.

Difference bet.measurements of 80.00 chs.by two sets of chainmen is 4 lks.; position of middle point

By 1st set 80.02 chs.

By 2d set 79.98 chs., the mean of which is

Resurvey of Guide Meridian Township 2 South Bet.Rs.8 and 9 W.

Chains.
80.00 Set a quartzite stone 15x6x5 ins., 10 ins.in the ground for cor.of secs.13,18,19, and 24, marked with 3 notches on N. and S.edges; dig pits 18x18x12 ins.in each sec.5½ ft.dist.; and raise a mound of earth 4 ft. base, 2 ft.high W.of cor.

From this point the old cor.which is a partially decomposed sandstone bears E. 43 lks. dist. I obliterate all trace of the old cor.

Land, gently rolling and level.

Soil, sandy and saline; 2d rate.

No timber.

Undergrowth greasewood and shadscale.

Land covered with dense undergrowth 60.00 chs.

Nov.4: At this cor.I set off 15° 20'S.on decl.arc; and at 11h.44 m.a.m.l.m.t.observe the sun on the meridian; the resulting lat.is 40° 38'N.

North bet.secs.13 and 18,

Over level small land.

Difference bet.measurements of 40.00 chs.by two sets of chainmen is 2 lks.; position of middle point

By 1st set 40.01 chs.

By 2d set 39.99 chs., the mean of which is

40.00 Set a quartzite stone 18x6x6 ins., 12 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x12 ins.N. and S.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.

All traces of the old ¼ sec.cor.have disappeared.

Difference bet.measurements of 80.00 chs.by two sets of chainmen is 4 lks.; position of middle point,

By 1st set 80.02 chs.

By 2d set 79.98 chs.; the mean of which is

80.00 Set a quartzite stone 15x8x7 ins., 10ins.in the ground for cor.of secs.7,12,13, and 18, marked with 2 notches

es ve G de e

Chains on N. and 4 notches on S.edge; dig pits 18x18x12 ins. in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

After diligent search I fail to find any trace of the old sec.corner.

Land, level.

Soil, saline; 2d rate.

No timber.

North bet.secs.7 and 12,

Over alkali flat.

Difference bet.measurements of 40.00 chs.by two sets of chainmen is 4 lks.; position of middle point

By 1st set 40.02 chs.

By 2d set 39.98 chs., the mean of which is

40.00 Set a lava stone 15x8x7 ins., 10 ins.in the ground for ¼ sec.cor.; marked ¼ on W.face; dig pits 18x18x12 ins.N. and S.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.

I find no trace of the old ¼ sec.cor.

Difference bet.measurements of 80.00 chs.by two sets of chainmen is 6 lks.; position of middle point

By 1st set 80.03 chs.

By 2d set 79.97 chs., the mean of which is

80.00 Set a limestone 15x8x6 ins., 10 ins.in the ground,for cor.of secs.1,6,7, and 12, marked with 1 notch on N. and 5 notches on S.edge; dig pits 18x18x12 ins. in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

From this cor.the old sec.cor. a limestone partially decomposed bears E. 54 lks.dist. I destroy all trace of old corner.

Land, level.

Chains. Soil, saline; 2d rate.

No timber.

North bet.secs.1 and 6,

Over level alkali land,

Difference bet.measurements of 40.00 chs.by 2 sets of chainmen is 2 lks.;position of middle point

By 1st set 40.01 chs.

By 2d set 39.99 chs., the mean of which is

40.00 Set a quartzite stone 18x12x6 ins., 12 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x 12 ins.N. and S.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.

From this point the old ¼ sec.cor., which is a sandstone much decomposed by the action of salt, bears E. 48 lks.dist. I obliterate all traces of the same.

Difference bet.measurements of 80.00 chs.by two sets of chainmen is 4 lks.; position of middle point

By 1st set 80.02 chs.

By 2d set 79.98 chs; the mean of which is

80.00 Set a limestone 18x6x6 ins., 12 ins.in the ground,for cor.of Tps.1 and 2 S., Rs.8 and 9 W., marked

1 S on NE.

8 W on SE.

2 S on SW., and

9 W on NW.face, with 6 notches on each edge; dig pits 24x24x12 ins.on each line, N.E.and W.4 ft. and S.of stone 8 ft.dist.; and raise a mound of earth 5 ft.base, 2½ ft.high S.of cor.

From this point the old cor.of Tps.1 and 2 S., Rs.8 and 9 W. bears E.57 lks.dist. The stone is very much decomposed. I destroy all traces of old corner.

Land level.

es vey Guide Meridian Townshi 2 South Bet.Rs.8 and 9 W.

Soil, saline; 2d rate.

No timber.

Nov.4, 1905.

For general description see subdivision notes of T.2 S., R. 9 W.

Alonzo J. Stookey.
U.S.Deputy Surveyor.

Volume
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R0334

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PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Alonzo J. Stookey, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Guide Meridian through Tps. 2 South between Rs. 8 and 9 West of the Salt Lake Base and Meridian, Utah, showing the respective capacities in which they acted:

David Sharp Jr. Leonard Scott, Chainmen.
Newell St. Jeor Lincoln A. Stookey, Chainmen.
Newell St. Jeor, Moundman.
, Moundman.
, Axman.
, Axman.
Lincoln A. Stookey, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alonzo J. Stookey, United States Deputy Surveyor, in surveying all those parts or portions of the Guide Meridian through Tps. 2 South between Rs. 8 and 9 West of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

David Sharp Jr. Newell St Jeor, Chainman.
Leonard Scott Lincoln A. Stookey, Chainman.
Newell St Jeor, Moundman.
, Moundman.
, Axman.
, Axman.
Lincoln A. Stookey, Flagman.

Subscribed and sworn to before me this 4th day of November, 1905.

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alonzo J. Stookey, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward P. Anderson United States Surveyor General for Utah, bearing date of the 1st day of June, 1905, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, resurveyed all those parts or portions of the Guide Meridian through Tp. 2 South, between Rs. 8 and 9 West of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been resurveyed by me, and under my direction; and I do further solemnly swear that all the corners of said resurvey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such resurvey.

Alonzo J. Stookey
United States Deputy Surveyor.

Subscribed by said Alonzo J. Stookey and sworn to before me this 29th day of March, 1907

Thomas Hull
U.S. Surveyor General
for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah April 20, 1907

The foregoing field notes of the resurvey of the Guide Meridian, through Township No. 2 South, between Ranges 8 and 9 West of the Salt Lake Base and Meridian, Utah,

executed by Alonzo J. Stookey under his contract No. 290, dated June 1, 1905, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the resurveys they describe, are hereby approved.

Thomas Hull
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

_____
United States Surveyor General.

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BOOK A-334
B.

FIELD NOTES

RE

OF THE SURVEY OF THE

NORTH AND WEST BOUNDARIES

AND

RESURVEY AND RETRACEMENT

O F

THE SOUTH BOUNDARY

OF

TOWNSHIP NO.2 SOUTH, RANGE NO.9 WEST

Of the SALT LAKE BASE AND *Meridian,*

U T A H

AS SURVEYED BY

Alonzo J.Stookey, *United States Deputy Surveyor,*

nder his Contract No. 290, *dated* June 1, *190*5.

rvey commenced November 5, *190*5.

urvey completed November 8, *190*5.

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	[illegible]	[illegible]
S Bdy	1-79-68	4,000.00
Or "	6.00 00	
Or "	4,21.00	1 58 00

BOOK A-534

NAMES AND DUTIES OF ASSISTANTS.

David Sharp, Jr.,	Chainman.
Leonard Scott,	Chainman.
Newell St. Jeor	Roundman.
Lincoln J. Stookey,	Flagman.

BOOK A-334

INDEX DIAGRAM.

Township 2 South, *Range* 9 West

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Meanders Page.....

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PRELIMINARY OATHS OF ASSISTANTS.

WE, David Sharp Jr. and Leonard Scott do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the resurvey of the West and North and the resurvey and retracement of the South Boundaries of T. 2 S. R. 2 W. of the Salt Lake Base and Meridian, Utah.

David Sharp Jr., Chainman.

Leonard Scott, Chainman.

Subscribed and sworn to before me this 3rd day of Nov. 1905, 189

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

WE, Newell St Jeor and do solemnly swear that ~~we~~ will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the resurvey of North and West, and the resurvey and retracement of the South bdys. of T. 2 S. R. 2 W. of the Salt Lake Base and Meridian, Utah.

Newell St Jeor, Moundman.

, Moundman.

Subscribed and sworn to before me this 3 day of Nov 1905, 189

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

WE, and do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

, Axman.

, Axman.

Subscribed and sworn to before me this
day of , 189

SEAL

I, Lincoln A. Stookey, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the resurvey of the North and West, and the resurvey and retracement of the South bdys. of T. 2 S. R. 2 W. of the Salt Lake Base and Meridian, Utah.

Lincoln A. Stookey, Flagman.

Subscribed and sworn to before me this 3rd day of Nov. 1905, 189

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

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Resurvey ' t e S ut Bo i d T. 2 S R. 9 W.

Chains. Survey commenced Nov.5, 1905, and executed with the instrument described in book "A" of this survey.

Knowing from previous retracements of the S.bdy.of the Tp., that it is not an E. and W.line, and that some of the corners are dilapidated, and some entirely missing; and, as the township to the south has been subdivided, I proceed to resurvey said south boundary as follows:

Nov.5, 1905: At 7 h.44m.a.m.l.m.t.I set off 40° 36'N. on the lat.arc, 15° 33'S.on decl.arc; and determine a meridian with the solar, at the cor.of Tps.2 and 3 S., Rs.8 and 9 W. as established by me and heretofore described.

I then place a flag at the cor.of secs.1,2,35 and 36, which is visible, and find the course to be N.89° 45'W. Thence I run

N.89° 45'W.bet.secs.1 and 36,

Over almost level land; through dense greasewood undergrowth.

6.00 Leave dense undergrowth; enter alkali flat, bears N. and S.

19.00 Road from Iosepa to Redlam Spring, bears N.45° W. and S.45° E.

25.00 Leave alkali flat; enter dense greasewood undergrowth bears N. and S.

40.00 The old ¼ sec.cor.very much dilapidated, I re-establish it as follows:

Set a limestone 15x8x5 ins., 10 ins.in the ground, for ¼ sec.cor., marked ¼ on N.face; dig pits 18x18x12 ins.E.and W.of tone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.

80. 00 The cor.of secs.1,2,35 and 36, which is a limestone 6x12x8 ins., above ground, marked as described by the surveyor general.

Resurvey of the South Boundary T. 2 S., R. 9 W.

Chains	
	I brighten up the marks on stone, and dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
	Land level.
	Soil, saline and clay; 2d rate.
	No timber.
	Undergrowth greasewood.
	Land covered with dense undergrowth 61.00 chs.
	A flag at the cor. of secs. 2, 3, 34 and 35 bears N. 89° 45' W.; I therefore run
	N. 89° 45' W. bet. secs. 2 and 35,
	Over level land; through dense greasewood undergrowth.
40.00	The old $\frac{1}{4}$ sec. cor. is a limestone 6x8x6 ins. above ground firmly set and marked and witnessed as described by the surveyor general.
	I brighten up the marks on said stone and dig pits 18 x18x12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
80.00	The old cor. of secs. 2, 3, 34 and 35, almost destroyed by the action of salt in the soil. I re-establish cor. by setting a limestone 15x8x7 ins., 10 ins. in the ground, marked 2 notches on E. and 4 notches on W. edge; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
	Land level.
	Soil, sand, saline, and clay; 1st and 2d rate.
	No timber.
	Undergrowth greasewood.
	Land covered with dense undergrowth 80.00 chs.

Resurve of the South Boundary T. 2 S., R. 9 W.

Chains. A flag at the cor.of secs.3,4,33 and 34,bears N.89° 57' W., I therefore run

N.89° 57'W.bet.secs .3 and 34,

Over level land; through dense shadscale and greasewood undergrowth.

39.93 Road to Redlam Spring bears N.35° W. and S.35° E.

40.00 The old ½ sec.cor., which is a limestone 6x10x6 ins. above ground, firmly set and marked and witnessed as described by the surveyor general. I brighten up the marks on said stone; dig pits 18x18x12 ins.E. and W. of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.

80.00 The old cor.of secs.3,4,33 and 34, is a limestone 8x1[illegible] x5 ins. above ground, firmly set and marked and witnessed as described by the surveyor general. I brighten up the marks on said stone; dig pits 18x18x12 ins. in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft. high W.of cor.

Land almost level, sloping gently to the E.

Soil, sandy; 2d rate.

No timber.

Undergrowth shadscale and greasewood.

Land covered with dense undergrowth 80.00 chs.

Nov.5: At this cor.I set off 15°38'S.on decl.arc and at 11 h.44m.a.m. l.m.t.observe the sun on the meridian; the resulting lat.is 40° 36'N.

A flag at the cor.of secs.4,5,32 and 33 bears N.89° 47' W.; I therefore run

N.89° 47'W.bet.secs.4 and 33,

Over land sloping gently to the E.; through dense shadscale undergrowth.

40.00 The old ½ sec.cor., is a limestone 8x12x7 ins.above

Resurvey of South Boundary T 2 S R 9 W

Chains.	
	ground, firmly set and marked and witnessed as described by the surveyor general. I brighten up the marks on said stone and raise a mound of stone 2 ft. base, 1½ ft.high N.of cor.
80.00	The old cor.of secs.4,5,32 and 33 is a limestone 7x12x 10 ins.above ground, firmly set, and marked and witnessed as described by the surveyor general.
	I brighten up the marks on said stone; dig pits 18x18x 12 ins.in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.
	Land, sloping gently to the east.
	Soil, clay and gravel; 2d and 3d rate.
	No timber.
	Undergrowth shadscale.
	Land covered with dense undergrowth 80.00 chs.

Not being able to see the next corner, on account of an intervening ridge, I run

West on random line, setting temporary ¼ sec.and section corners.I find no trace of old corners until at 159.68 chs.I fall 56 lks.S.of the remains of the old Tp.cor.very much disintegrated. I re-establish this corner as follows:

Mark a stationary limestone 30x30x12 ins.above ground, at exact point for cor.of Tps.2 and 3 S., Rs.9 and 10 W. by cutting a cross (X), 2 S on NE., 9 W on SE, 3 S on SW.; and 10 W on NW.of cross; with 6 grooves N.S. E.and W.of cross; and raise a mound of stone 2 ft. base 1½ ft.high S.of cor. Pits impracticable. Thence I run

S.89° 48'E.on true line bet.secs.6 and 31,

Over rolling stony land; through dense sagebrush undergrowth; descending gently.

Resurve of South Boundar T. 2 S., R. 9 W.

Chains	
39.68	Set a limestone 15x8x6 ins., 10 ins.in the ground, for ¼ sec.cor., marked ¼ on N.face; raise a mound of stone 2 ft.base, 1½ ft.high N.of cor.Pits impracticable.
64.40	Road to Redlam Spring, bears N.45° W. and S.45° E.
79.38	Descend steep bluff bears N.40° W. and S.40° E.
79.68	Set a quartzite stone 24x15x5 ins., 18 ins.in the ground for corof secs.5,6,31, and 32, marked with 5 notches on the E. and 1 notch on the W.edges; raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.Pits impracticable.
	Land, rolling.
	Soil, stony gravel and clay; 2d rate.
	No timber.
	Undergrowth sagebrush.
	Land covered with dense undergrowth 79.68 chs.
	S.89° 48'E. bet.secs.5 and 32,
	Over slightly broken land; through dense sagebrush and shadscale undergrowth.
1.65	Hollow or ravine 30 ft.below bluff, drains S.20° E.; begin ascent of small mountain.
14.15	Top of ascent 110 ft.above hollow, bears N. & S.
	The south end of the mountain is about 10 chs.S.from this point; begin descent.
27.00	Foot of mountain, 140 ft.below top of ridge, bears N. 35° E. and S.35° W.
40.00	Set a limestone 15x8x5 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on N.face; raise a mound of stone 2 ft.base, 1½ ft.high N.of cor.Pits impracticable.
43.00	Road from Redlam Spring to Eight Mile Spring, bears N. 40° E. and S.40° W.

Resurvey of South Boundary T. 2 S., R. 9 W.

Chains.	
80.00	The cor.of secs.4,5,32 and 33.
	Land broken and rolling.
	Soil, stony and gravel; 2d rate.
	No timber.
	Undergrowth sagebrush and shadscale.
	Land covered with dense undergrowth 80.00 chs.
	Nov.5, 1905.

For general description see notes of subdivision of this township.

Resurvey of the West Boundary T. 2 S. R. 9 W.

Chains. Survey commenced Nov.5, 1905, and executed with the instrument described in book "A" of this survey.

I examine the adjustments of the transit and correct the level and collimation errors; then to test the solar apparatus by comparing its indications resulting from solar observation made during a.m.and p.m. hours with a meridian determined by observations on Polaris I proceed as follows:

At the cor.of Tps.2 and 3 S., Rs.9 and 10 W., established by myself, I set off 40° 36' N.on the lat.arc 15° 39'S.on the decl.arc; and at 3 h. 44m.p.m.l.m.t. determine a meridian with the solar, and mark a point thereof on a stone firmly set in the ground 4.00 chs. N. of the cor. , a point 5.00 chs.north not being visible.

Nov.5, 1905.

Nov.6: At 4 h.23 m.a.m.l.m.t.I observe Polaris at western elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined by a tack driven into a peg driven into the ground 4.00 chs.N.of the cor.

At 7 a.m.l.m.t.I lay off the azimuth of Polaris 1°35' to the E. and mark the meridian thus determined by cutting a small groove in the stone set Nov.5, on which the meridian falls 0.4 ins. E.of the mark determined by the solar.

At 7 h.44 m.a.m.l.m.t.I set off 40° 36'N.on the lat.arc 15° 51'S.on the decl.arc; and mark a point in the meridian determined by the solar by a cross on the stone already set 4.00 chs.N.of my station; this mark falls 0.3 ins.E.of the meridian established by the Polaris observation.

Resurvey of the West Boundary T. 2 S., R. 9 W.

Chains	
	The solar apparatus by p.m.and a.m.observations defines positions for meridians respectively about 0' 21" W. and 0' 16" E.of the meridian established by the Polaris observation; therefore I conclude that the adjustments of the transit are satisfactory.
	The magnetic bearing of the true meridian at 8 h.30 m. a.m.l.m.t.is N.17° 28'W.; the angle thus determined gives the mag.decl.17° 28'E.
	Preliminary to commencing to subdivide this Tp.I run north from the Tp.cor.above described, on a retracement line along the W.bdy.of the Tp. finding many of the corners missing and the remainder dilapidated and out of place. At 6 miles I find the old corner of Tps.1 and 2 S., Rs.9 and 10 W.,lying loose on the ground S.45° E.65 lks.dist.
	There being no subdivisions dependent on this line I proceed to resurvey it as follows:
	I begin at the cor.of Tps.2 and 3 S., Rs.9 and 10 W. heretofore described, and run
	North bet.secs.31 and 36,
	Over stony rolling ground; through dense sagebrush undergrowth.
22.00	Hollow or ravine 70 ft.below bench land, drains E.
40.00	Set a sandstone 18x8x4 ins., 12 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; raised a mound of stone 2 ft.base, 1½ ft.high W.of cor.
	Pits impracticable.
	I fail to find any trace of old ¼ sec.corner.
75.00	Enter small grove of scattering cedars, bear E. and W.
77.90	Leave cedars, bear E. and W.
80.00	Set a quartzite stone 18x7x6 ins., 12 ins.in the ground for cor.of secs.25,30,31, and 36, marked with 1 notch on S. and 5 notches on N.edges; raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.

Resurve of the West Boundary of T. 2 S., R. 9 W.

Chains.	
	Pits impracticable.
	After diligent search I find no trace of the old corner.
	Land, rolling.
	Soil, stony; 2d rate.
	No timber.
	Undergrowth, sagebrush.
	Land covered with dense undergrowth 80.00 chs.
	North bet.secs.25 and 30,
	Over rolling land, through dense sagebrush undergrowth.
36.00	Low pass in ridge 20 ft.above bench, bears E. and W.: this ridge connects a small mountain on the east with the main mountain range on the west.
40.00	Set a quartzite stone 15x10x4 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
	I find no trace of the old ¼ sec.cor.
40.25	Road to Redlam Spring bears E. and W .
	Begin descent over land cut by numerous small ravines or washes, draining NE.
80.00	Set a sandstone 18x10x8 ins., 12 ins.in the ground for cor.of secs.19,24,25 and 30, marked with 2 notches on S. and 4 notches on N.edges; raise a mound of stone 3 ft.base, 1½ ft.high W.of cor.
	Pits impracticable.
	All traces of old sec.cor.have disappeared.
	Land, rolling.
	Soil, stony and sandy; 1st and 2 d rate.
	No timber.
	Undergrowth sagebrush.
	Land covered with dense undergrowth 80.00 chs.

Resurvey of the West Boundary T. 2 S., R. 9 W.

Chains.	
	North bet.secs.19 and 24,
	Over rolling land; through dense sagebrush undergrowth.
40.00	Set a sandstone 15x10x4 ins., 10 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable. All trace of old cor.has disappeared.
80.00	Set a sandstone 18x7x6 ins., 12 ins.in the ground for cor.of secs.13,18,19, and 24, marked with 3 notches on N. and S.edges; raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor. Pits impracticable.
	I find traces of the old cor.S.15° W.35 lks.dist. I destroy same.
	Land, rolling.
	Soil, sand and stony; 1st and 2d rate.
	No timber.
	Undergrowth sagebrush.
	Land covered with dense undergrowth 80.00 chs.
	Nov.6: At this cor.I set off 15° 56'S.on decl.arc; and at 11 h.43m.a.m.l.m.t.observe the sun on the meridian; the resulting lat.is 40° 38'N.
	North bet.secs.13 and 18,
	Over gently rolling ground, cut by numerous small washes; through dense sagebrush undergrowth.
29.60	Road to Redlam Spring bears N.15° E. and S.15° W.
	Begin gentle ascent, bears.N.30°E. and S.30° W.
39.60	Intersect old $\frac{1}{4}$ sec.cor. which is a white sandstone 12 x10x5 ins.above ground, marked and witnessed as described by the surveyor general. I destroy same.
40.00	Set a sandstone 15x8x5 ins.10 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.
76.00	Begin ascent of mountain bears N.30° E. and S.30° W.
80.00	Set a limestone 18x10x5 ins., 12 ins.in the ground for cor.of secs.7,12,13, and 18, marked with 2 notches on

Resurve of the West Boundar T. 2 S. R. 9 W.

Chains. N. and 4 notches on S.edges; and raise a mound of stone 2 ft.bas e, 1½ ft.high W.of cor.Pits impractica le

I found the old sec.cor., a limestone 12x12x5 ins.lying loose upon the ground, S.80° E.18 lks.dist., but no trace of the bearing tree.

I destroy the old corner.

Land, rolling and broken.

Soil, stony, 3d rate.

No timber.

Undergrowth sagebrush.

Mountainous land or land covered with dense undergrowth

80.00 chs.

North bet.secs.7 and 12,

Over mountainous land.

6.50 Top of limestone ridge, 50 ft.above foot of mountain bears E. and W. Enter scattering cedars, bear E. and W. and descend.

10.70 Bottom of hollow, 50 ft.below top of ridge, drains E. Ascend.

15.34 Top of limestone ridge, 70 ft.above hollow, bears N.75° E. and S.75° W. Descend.

This ridge and the last named join 5. 0 chs.W.

27.00 Bottom of hollow, 75 ft.below top of ridge, drains E. Begin steep ascent.

29.00 Top of ascent 40 ft.above hollow; thence over land almost level.

40.00 Set a sandstone 18x6x6 ins., 12 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.Pits impracticable.

The old ¼ sec.cor., which is a yellow sandstone 20x12 x6 ins.bears S.70° E.55 lks.dist. I destroy same.

Resurvey of West Boundary T. 2 S., R. 9 W.

Chains.	
43.40	Begin steep descent into Redlam Spring hollow, bears S. 45° E. and N.45° W.
45.00	Bottom of hollow, 40 ft.below top of descent, drains S. 45° E. Ascend bluff.
53.00	Ascent becomes gentle.
80.00	Set a sandstone 18x6x6 ins., 12 ins.in the ground for cor.of secs.1,6,7, and 12, marked with 1 notch on N. and 5 notches on S.edges; raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
	From this point the remains of the old section corner bear S.45° E. 1.00 ch.dist. I destroy all trace of same.
	Land, broken and mountainous.
	Soil, stony, 3d rate.
	Timber scattering cedars.
	Mountainous land 80.00 chs.

North bet.secs.1 and 6,

	Over mountainous land; through scattering cedars.
15.40	Top of ridge, 150 ft.above last named corner bears E. and W.; descend.
23.60	Bottom of hollow, 200 ft.below ridge, drains E. Ascend.
31.00	Top of limestone ridge, 250 ft.above hollow, bears N. 18° W. and S.18° E., and proceed along face of same.
40.00	Set a quartzite stone 18x6x6 ins., 12 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.Pits impracticable.
	I fail to find any trace of the old ¼ sec.cor.
80.00	Set a quartzite stone 18x10x5 ins., 12 ins.in the ground for cor.of Tps.1 and 2 S., Rs.9 and 10 W.,marked with 6 notches on each edge; raise a mound of stone 2 ft. base, 1½ ft.high S.of cor. Pits impracticable.

[illegible] R. 9 W.

chains. A cedar 18 ins.dia.bears N.7° E. 15 lks.dist.
marked T 1 S R 9 W S 31 B T
A cedar 6 ins.dia.bears S.24° W. 38 lks.dist.
marked T 3 S R 10 W S 1 B T

The old Tp.cor. a limestone 15x13x6 ins., as already stated I found lying loose upon the ground, S.45° E.65 lks. dist. I destroy it and obliterate the marks on two bearing trees in connection therewith.

Land, mountainous.

Soil, stony; 3d rate.

Timber scattering cedar.

Mountainous land 80.00 chs.

Nov.6, 1905.

For general description see notes of the subdivision of this township.

Resurvey of North Boundary T. 2 S., R. 9 W.

Chains. Survey commenced Nov.7, 1905, and executed with the instrument described in book "A" of this survey.

I examine the adjustments of the transit and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during a.m.and p.m. hours with a meridian determined by observation on Polaris I proceed as follows:

At the cor.of Tps.1 and 2 S., Rs.8 and 9 W., re-established by me and heretofore described, I set off 40° 41'N.on lat.arc; 16° 15'S.on decl.arc; and at 3 h.44m. p.m.l.m.t.determine a meridian with the solar, and mark a point thereof on a wooden plug firmly set in the ground 5.00 chs.N.of the cor.

Nov.7, 1905.

Nov.8: At 4 h.15 m.a.m.l.m.t.I observe Polaris at western elongation in accordance with the Manual of Instructions and mark a point in the line thus determined on a peg driven into the ground 5.00 chs. N.of my station.

At 8 a.m.,l.m.t.I lay off the azimuth of Polaris 1° 35' to the east, and mark the meridian thus determined by cutting a cross in the plug set Nov.7, on which the meridian falls 0.3 ins.E.of the mark determined by the solar.

At 8h.14m.a.m.l.m.t.I set off 40° 41'N.on lat.arc; 16° 37'S.on decl.arc, and mark a point in the meridian determined by the solar by a groove in the plug already set 5.00 chs.N.of my station; this mark falls 0.3 ins, east of the meridian established by Polaris observation.

The solar apparatus by a.m.and p.m.observations defines

Resurvey of North Boundary T. 2 S., R. 9 W.

Chains.

position for meridians respectively 0' 16" E. and 0' 16" W.of the meridian established by the Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8 h.0 m. a.m.is N. 17° 10'W.; the angle thus determined gives the mag,decl.N.17° 10'E.

Knowing from previous retracements of the N.bdy.of the Tp. that it is not an E. and W.line; and that most of the corners are missing, and the remainder dilapidated; and, as the township to the north has not been subdivided, I proceed to resurvey the said bdy. as follows:

From said corner of Tps. 1 and 2 S., Rs.8 and 9 W. I run

West on random line along the north bdy.of the Tp., setting temp.$\frac{1}{4}$ sec.and sec.cors.at intervals of 40.00 chs.; and, at 479.50 chs.intersect the W.bdy.of the Tp. at a point 1.56 chs.S.of the cor.of Tps.1 and 2 S., Rs.9 and 10 W., as re-established by me, and heretofore described. The falling answers to a correction of 0°11' or 26 lks.N.per mile, counting from the northeast corner of the Tp.; therefore I run

S.89° 49'E.bet.secs.6 and 31,

Over mountainous land; descending through scattering cedar timber and dense sagebrush undergrowth.

1.66 Hollow, 20 ft.below Tp.cor., drains S.15° E.

Ascend.

6.00 Top of ridge, 200 ft.above hollow, bears S.45° E. and N.45° W.; and proceed along south face of mountain.

14.50 Top of saddle, 20 ft.above last named ridge, bears N.

Resurvey of North Boundary T. 2 S., R. 9 W .

Chains.	N.45° W. nd S.45° E.
	Descend steep mountain side.
36.50	Foot of mountain, 400 ft.below last named ridge, bears N. and S. Continue down gentle descent.
39.50	Set a lava stone 15x10x5 ins., 10 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor. Pits impracticable.
	I find no trace of the old $\frac{1}{4}$ sec.cor.
79.50	Set a quartzite stone 15x10x8 ins., 10 ins.in the ground, for cor.of secs.5,6,31, and 32, marked 1 notch on W. and 5 notches on E.edges; raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.
	I find no trace of the old sec.cor.
	Land, mountainous and broken.
	Soil, stone and sand; 2d and 3d rate.
	Timber, scattering cedars.
	Undergrowth sagebrush.
	Mountainous land, or land covered with dense undergrowth 79.50 chs.
	S.89° 49'E.bet.secs.5 and 32,
	Over undulating ground; through scattering cedar, and dense sagebrush undergrowth; descending.
0.10	Ravine 8 ft.deep, drains S.45° E.
17.25	Road to Redlam Spring bears N.45° W. and S.45° E.; joins another road about $\frac{1}{2}$ mile SE.of here. Leave cedars, bear NW. and SE.
40.00	Set a quartzite stone 15x8x6 ins., 10 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor.Pits impracticable.

es rve of North Boundar T. 2 S. R. 9 W.

Chains. I find no trace of the old ¼ sec.cor.

43.00 Road to Redlam Spring from Low Pass, bears N.30° E.and S.30° W.

80.00 Set a sandstone 15x6x6 ins., 10 ins.in the ground for cor.of secs.4,5,32 and 33, marked with 2 notches on the W. and 4 notches on the E.edges; dig pits 18x18x 12 ins.in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

I find no trace of the old sec.cor.

Land, gently rolling.

Soil, sandy; 2d rate.

Timber scattering cedars, on W.end of this mile.

Undergrowth sagebrush.

Land covered with dense undergrowth 80.00 chs.

S.89° 49'E.bet.secs.4 and 33,

Over almost level land; through dense sagebrush undergrowth.

28.00 Foot of ascent, bears N. and S.

34.00 Top of ascent, 150 ft.above foot, bears N. and S.

Descend.

40.00 Set a limestone 15x6x6 ins., 10 ins.in the ground, for ¼ sec.cor., marked ¼ on N.face; raise a mound of stone 2 ft. ase, 1½ ft.high N.of cor.

This corner is on brow of hill.

The old ¼ sec.cor., which is a sandstone 5x8x6 ins. above ground, bears S.89° E. 1.00 ch.dist. I destroy it.

50.00 Bottom of swale, 90 ft.below top of ascent, drains S.

Begin gentle ascent.

66.00 Top of ascent, 60 ft.above swale; begin descent of mountain, bears N. and S.

Resurvey of the North Boundary T. 2 S., R. 9 W.

Chains.	
80.00	Set a limestone 15x8x8 ins., 10 ins.in the ground for cor.of secs.3,4,33 and 34,marked with 3 notches on E. and W.edges; raise a mound of stone 2 ft. base, 1½ ft.high W.of cor. Pits impracticable.
	This corner is located on E.face of small mountain.
	After diligent search I fail to find any trace of the old sec.corner.
	Land, mountainous and level.
	Soil, stony and sand; 2d and 3d rate.
	No timber.
	Undergrowth sagebrush.
	Mountainous land or land covered with dense undergrowth 80.00 chs.
	Nov.8:At this cor.I set off 16° 32'S.on decl.arc; and at 11h.44m.a.m.l.m.t.observe the sun on the meridian; the resulting lat.is 40° 41'N.
	S.89° 49'E.bet.secs.3 and 34,
	Over mountainous land; descending through dense sage-brush and shadscale undergrowth.
4.50	Bottom of hollow, 200 ft.below top of ridge, drains S. 45° E.
	Ascend gradually along face of mountain.
15.00	Top of quartzite ridge 100 ft.above hollow, bears N. 80° W. and S.80° E.
	Descend.
27.44	Foot of small mountain 130 ft.below ridge.
	Road from Low Pass to Iosepa bears N. and S.
40.00	Set a limestone 15x8x5 ins., 10 ins.in the ground for ¼ sec.cor.. marked ¼ on N.face; dig pits 18x18x12 ins.E. and W.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.
	I find no trace of the old ¼ sec.cor.

Resurvey of the North Boundary of T. 2 S., R. 9 W.

Chains.

80.00 Set a quartzite stone 15x8x7 ins., 10 ins.in the ground for cor.of secs.2,3.34 and 35, marked with 2 notches on the E. and 4 notches on W.edges; dig pits 18x18x 12 ins.in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W .of cor.

From this point the remains of the old sec.cor. very much disintegrated, bear S.30° E. 25 lks.dist.

I destroy all trace of same.

Land mountainous and level.

Soil, stony and sand; 2d and 3d rate.

No timber.

Undergrowth shadscale and sagebrush.

Mountainous land, or land covered with dense undergrowth 80.00 chs.

S.89°49'E.bet.secs.2 and 35,

Over level land; through dense shadscale and greasewood undergrowth.

22.00 Leave dense undergrowth; enter alkali flat bears N. and S.

40.00 Set a quartzite stone 15x6x6 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on N.face; dig pits 18x18x 12 ins.E. and W .of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.

From this point the old ¼ sec.cor., very much disintegrated by salt bears E. 75 lks.dist. I destroy it.

80.00 Set a quartzite stone 18x7x6 ins., 12 ins.in the ground for cor.of secs.1,2,35. and 36, marked with 1 notch on the E. and 5 notches on W.edges; dig pits 18x18x12 ins.in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

I fail to find any trace of the old sec.cor.

Resurvey of the North Boundary T. 2 S., R. 9 W.

Chains.	Land level.
	Soil, saline and sand; 2d rate.
	No timber.
	Undergrowth chaparrale and greasewood.
	Land covered with dense undergrowth 22.00 chs.
	S.89° 49'E.bet.secs.1 and 36,
	Over level alkali land.
40.00	Set a limestone 15x8x6 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x12 ins.E. and W.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.
	I find no trace of the old ¼ sec.cor.
80.00	Intersect the cor.of Tps.1 and 2 S., Rs.8 and 9 W.
	Land, level.
	Soil, saline; 2d rate.
	No timber.
	November 8, 1905.
	For general description see notes of the subdivision of this township.

Boundaries of T. 2 S., R. 9 W.

Latitudes, Departures, and Closing Errors.

Line Designated	True Bearing	Dist.	Latitudes N.	Latitudes S.	Departures E.	Departures W.
		chs.	chs.	chs.	chs.	chs.
North Boundary	S.89°49'E.	479.50	.....	1.53	479.50	.....
South Boundary	N.89°45'W.	160.00	.70	.....	.....	160.00
South Boundary	N.89°57'W.	80.00	.07	.....	.....	80.00
South Boundary	N.89°47'W.	80.00	.30	.....	.....	80.00
South Boundary	N.89°48'W.	159.68	56	480.00	.....	159.68
East Boundary	South	480.000	.....	480.00	.....	.....
West Boundary	North	480.00	480.00	.....	.....	.....
Convergency					.63	
Totals			481.63	481.53	480.13	479.68
			481.53		479.68	
Error in lat. and dep.			.10		.45	

Alonzo J. Stookey

U.S. Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Alonzo J. Stookey, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the resurvey of the South and West, and the resurvey and retracement of the South boundary of T. 2 S. R. 9 W. of the Salt Lake Base and Meridian, Utah. showing the respective capacities in which they acted:

David Sharp Jr. ..... Chainman.
Leonard Scott ..... Chainman.
Newell St Jean ..... Moundman.
..... Moundman.
..... Axman.
..... Axman.
Lincoln A. Stookey ..... Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alonzo J. Stookey, United States Deputy Surveyor, in surveying all those parts or portions of the South and West, and the resurvey and retracement of the South bdy of T. 2 South of Range 9 West of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah

David Sharp Jr ..... Chainman.
Leonard Scott ..... Chainman.
Newell St Jean ..... Moundman.
..... Moundman.
..... Axman.
..... Axman.
Lincoln A. Stookey ..... Flagman.

Subscribed and sworn to before me this 7 day of Nov 1905, 189

SEAL

Alonzo J. Stookey
U. S. Deputy Surveyor

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alonzo J. Stookey, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Edward H. Anders United States Surveyor General for Utah, bearing date of the 1" day of June 1905, 189 , I have well, faithfully, and truly, in my o proper person, and in strict conformity with the instructions furnished by the United States Surve General for Utah, the Manual of Surveying Instructions, and the laws of t United States, retraced or re surveyed all those parts or portions of North and West, and the resu and retracement of the South Bdys of Township 2 South of Range 9 West

of the Salt Lake Base & meridian, in the State of Utah, which are represen d in t foregoing field notes as having been retraced or re surveyed by me, and under my direction; and I do further solem swear that all the corners of said retracement and re survey have been established and perpetuated in strict accor ce wi the Manual of Surveying Instructions, and the special written instructions of the United States rvey General for Utah and in the specific manner described in the field notes, d t the foregoing are the original field notes of such retracement and re survey; and should any fraud be detected, I will su the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Alonzo J. Stookey
United States Deputy Survey

Subscribed by said Alonzo J. Stookey, and sworn to before me this 29th day of March, 1907

Thomas Hull
U.S. Surveyor General for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 20 1907, 189

The foregoing field notes of the ~~survey of~~ Resurvey of the North and West Boundaries, and Retracement and Resurvey of the South Boundary of Township No.2 South, Range No.9 West of the Salt Lake Base and Meridian, Utah,

executed by Alonzo J. Stookey under his contract No. 290, dated June 1, 1905, 189 , having b critically examined, and the necessary corrections and explanations made, the ~~said~~ field notes, and and retracements resurveys they describe, are hereby approved.

Thomas Hull
United States Surveyor Gene

I certify that the foregoing transcript of the field notes of the above-described surveys in , has been correctly copied from the original notes on file in this office.

United States Surveyor Gene

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BOOK A-334

C.

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISIONS

OF

TOWNSHIP NO. 2 SOUTH, RANGE NO. 9 WEST

Of the SALT LAKE BASE AND *Meridian,*

UTAH,

AS SURVEYED BY

Alonzo J. Stookey, *United States Deputy Surveyor,*

Under his Contract No. 290, *dated* June 1 1905, ~~189~~

Survey commenced November 9 1905, ~~189~~

Survey completed November 14, 1905, ~~189~~

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high 55-69-23 ✓
low 4-07-30 ✓

NAMES AND DUTIES OF ASSISTANTS.

David Sharp, Jr.,	Chainman.
Leonard Scott,	Chainman.
Newell St.Jeor,	Moundman,
Lincoln A.Stookey,	Flagman.

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BOOK A-334

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PRELIMINARY OATHS OF ASSISTANTS.

We, David Sharp Jr and Leonard Scott do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the subdivisions of T 2 S R 9 W of the Salt Lake Base and Meridian, Utah

David Sharp Jr, *Chainman.*

Leonard Scott, *Chainman.*

Subscribed and sworn to before me this 8" day of Nov. 1905, 189

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

~~We,~~ Newell St Jeor and do solemnly swear that ~~we~~ I will well and ~~truly~~ perform the duties of moundman in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of the subdivisions of T 2 S R 9 W of the Salt Lake Base and Meridian Utah.

Newell St Jeor, *Moundman.*

, *Moundman.*

Subscribed and sworn to before me this 8" day of Nov. 1905, 189

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

We, and do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

, *Axman.*

, *Axman.*

Subscribed and sworn to before me this day of , 189

SEAL

I, Lincoln A. Stookey, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the subdivisions of T 2 S R 9 W of the Salt Lake Base and Meridian Utah

Lincoln A. Stookey *Flagman.*

Subscribed and sworn to before me this 8 day of Nov 1905, 189

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

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Subdivision of T. 2 S., R. 9 W.

Chains.	
	Survey commenced Nov. 9, 1905, and executed with the instrument described in book "A" of this survey.
	At 4 h.11m a.m.l.m.t.at the cor.of secs.1,2,35, and 36 on the S.bdy.of the Tp., re-established by me and heretofore described, lat.40°35' 38" N., long.112° 49' 29" W. I observe Polaris at western elongation in accordance with Manual of Instructions, and mark a point in the line thus determined on a peg driven in the ground 5 chs.N.of my station.
	Nov. 9, 1905.
	Nov. 9: At 7h.44m.a.m.l.m.t.I set off 40° 36' on the lat.arc; 16° 44'S.on the decl.arc; and determine a meridian with the solar, at said cor.of secs.1,2, 35 and 36. Thence I run
	N.0°01'W.bet.secs.35 and 36,
	Over level land; through dense shadscale and greasewood undergrowth.
40.00	Set a limestone 15x10x5 ins., 10 ins.in the ground, for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x12 ins.N.and S.of stone 3 ft.dist., and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.
64.90	Road from Iosepa to Redlam Spring, bears N.45° W. and S.45° E.
80.00	Set a quartzite stone 15x10x8 ins., 10 ins.in the ground for cor.of secs.25,26,35, and 36, marked with 1 notch on S. and 1 notch on E.edge; dig pits 18x18x12 ins. in each sec.5½ ft.dist., and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.
	Land level,
	Soil saline and clay, 2d rate.
	No timber.

SUBDIVISION OF T. 3 S., R. 9 W.

Chains.	
	Undergrowth shadscale and greasewood.
	Dense undergrowth 80.00 chs.
	A flag previously set at the cor.of secs.25,30,31, and 36 on E.bdy.of Tp.being plainly visible I run for said flag
	S.89° 47'E.on a random line bet.secs.25 and 36,
40.00	Set temp.¼ sec.cor.
80.00	Intersect E.bdy.of Tp.at the cor.of secs.25,30,31, and 36, as established by me and heretofore described.
	Thence I run
	N.89° 47'W.on true line bet.secs.25 and 36,
	Over rolling sandy land, or almost level; through dense greasewood undergrowth.
40.00	Set a limestone 15x8x5 ins. 10 ins.in the ground for ¼ s.c.cor., marked ¼ on N.face; dig pits 18x18x12 ins. E. and W.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.
50.00	Leave dense undergrowth and enter alkali flat bears N. and S.
77.00	Leave alkali flat; enter dense greasewood and shadscale undergrowth bears N. and S.
80.00	The cor.of secs.25,26,35, and 36.
	Land gently rolling or level.
	Soil saline and sand, 2d rate.
	No timber.
	Undergrowth greasewood and shadscale.
	Land covered with dense undergrowth 53.00 chs.
	N.0°01'W.bet.secs.25 and 26
	Over level land; through dense greasewood and shadscale

Subdivision of T. 2 S. R. 9 W.

Chains. undergrowth.

40.00 Set a sandstone 15x7x6 ins.10 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; dig pits 18x18x12 ins. N. and S.of stone 3 ft.dist., and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft. high W.of cor.

80.00 Set a sandstone 15x8x8 ins.10 ins.in the ground for cor.of secs.23.24.25,,and 26, marked 2 notches on S. and 1 notch on E.edge; dig pits 18x18x12 ins.in each sec.$5\frac{1}{2}$ ft.dist.; and raise a mound of earth 4 ft. has 2 ft.high W.of cor.

Land level.

Soil saline and clay, 2d rate.

No timber.

Undergrowth greasewood and shadscale.

Land covered with dense undergrowth 80.00 chs.

A flag previously set at the cor.of secs.19,24,25,and 30 on E.bdy.of Tp., being plainly visible, I run for said flag,

S.89° 45'E.on random line bet.secs.24 and 25,

40.00 Set temp.$\frac{1}{4}$ sec.cor.

80.00 Intersect E.bdy.of Tp.at the cor.of secs.19,24,25, and 30, as established by myself and heretofore describe ,

Thence I run

N.89° 45'W.on true line bet.secs.24 and 25,

Over level land; through dense shadscale and greasewoo undergrowth.

3.00 Leave dense undergrowth; enter alkali flat bears N. an S.

40.00 Set a quartzite stone 15x8x5 ins., 10 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; dig pits 18x18 x12 ins.E. and W.of stone 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high N.of cor.

Subdivision of T. 2 S., R. 9 W.

Chains.	
57.00	Leave alkali flat; enter dense shadscale and greasewood undergrowth bears N. & S.
80.00	The cor. of secs. 23, 24, 25, and 26.
	Land level.
	Soil sand, clay, and saline 2d rate.
	No timber.
	Undergrowth shadscale and greasewood.
	Land covered with dense undergrowth 26.00 chs.

N. 0°01' W. bet. secs. 23 & 24,

	Over level land; through dense shadscale and greasewood undergrowth.
40.00	Set a limestone 15x8x5 ins., 10 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; dig pits 18x18x12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.
53.00	West point of alkali flat, bears E. and S. 45° E.
64.00	Leave dense undergrowth; enter circular alkali flat, bears E. & W.
79.00	Leave alkali flat; enter dense shadscale and greasewood undergrowth bears E. & W.
80.00	Set a quartzite stone 15x8x5 ins., 10 ins. in the ground for cor. of secs. 13, 14, 23, and 24, marked 3 notches on S. and 1 notch on E. edge; dig pits 18x18x12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
	Land level.
	Soil saline and clay, 2d rate.
	No timber.
	Undergrowth shadscale and greasewood.
	Land covered with dense undergrowth 65.00 chs.

'is f S. R. 9 W.

Chains. Nov.9: At this cor.I set off 16° 49' S.on decl.arc, and at 11h.44m.a.m.l.m.t.observe the sun on the meridian; the resulting lat.is 40° 38'N.

A flag previously set at the cor.of secs.13,18,19 and 24 on E.bdy.of the Tp. being plainly visible, I run for said flag,

S 89° 43'E.on random line bet.secs.13 and 24,

40.00 Set temp.$\frac{1}{4}$ sec.cor.

79.98 Intersect E.bdy.of Tp.at the cor.of secs.13,18, 19 and 24, heretofore described.

Thence I run

N.89° 43'W.on true line bet.secs.13 and 24,

Over level alkali flat.

20.00 Leave alkali flat; enter dense shadscale and greasewood undergrowth bears N. and S.

39.99 Set a sandstone 18x6x5 ins.. 12 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; dig pits 18x18x12 ins.E. & W.of stone 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft.high N.of cor.

79.98 The cor.of secs.13,14,23, and 24.

59.98/20.00

Land level.

Soil clay and saline, 2d rate.

No timber.

Undergrowth shadscale and greasewood.

Land covered with dense undergrowth 59.98 chs.

N.0°01'W.bet.secs. 13 and 14,

Over level land; through dense greasewood undergrowth.

40.00 Set a sandstone 15x6x6 ins.10 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; dig pits 18x18x12 ins. N. and S.of stone 3 ft.dist.; and raise a mound of

Subdivision T. 2 S., R. 9 W.

Chains.	
	earth 3½ ft.base, 1½ ft.high W.of cor.
80.00	Set a quartzite stone 15x8x6 ins.10 ins.in the ground for cor.of secs.11,12,13, and 14, marked 4 notches on the S. and 1 notch on E.edges; dig pits 18x18x12 ins.in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.
	Land level.
	Soil saline and clay, 2d rate.
	No timber.
	Undergrowth greasewood.
	Land covered with dense undergrowth 80.00 chs.

	A flag previously set at the cor.of secs.7,12,13 and 18 on E.bdy.of the Tp. being plainly visible, I run for said flag,
	S.89° 39'E.on random line bet.secs.12 & 13,
40.00	Set temp. ¼ sec.cor.
80.00	Intersect E.bdy.of Tp. at the cor.of secs.7,12,13 and 18 heretofore described.
	Thence I run
	N.89° 39'W.on true line bet.secs.12 and 13,
	Over level alkali flat.
40.00	Set a quartzite stone 15x6x6 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on N.face; dig pits 18x18x12 ins.N. and W.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.
45.70	Leave alkali flat and enter dense shadscale and greasewood undergrowth bears N. and S.
80.00	The cor.of secs.11,12,13, and 14.
	Land level.
	Soil saline and clay; 2d rate.
	No timber.
	Undergrowth shadscale and greasewood.

Subdivision T. 2 S. R. 9 W.

Chains	
	Land covered with dense undergrowth 34.30 chs.
	N.0°01'W.bet.secs.11 and 12,
	Over level land, through dense shadscale and greasewood undergrowth.
40.00	Set a limestone 15x10x4 ins., 10 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; dig pits 18x18x12 ins.N. & S.of stone 3 ft.dist., and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high W.of cor.
54.00	Leave dense undergrowth and enter alkali flat, bears N. 45° W. and E.
80.00	Set a sandstone 15x10x5 ins.10 ins.in the ground for cor.of secs.1,2,11, and 12, marked with 5 notches on S. and 1 notch on E.edge; dig pits 18x18x12 ins.in each sec.$5\frac{1}{2}$ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.
54/26	Land level.
	Soil sandy and saline, 2d rate.
	No timber.
	Undergrowth shadscale and greasewood.
	Land covered with dense undergrowth 54.00 chs.
	A flag previously set at the cor.of secs.1,6,7, and 12 on the E.bdy.of the Tp. being plainly visible, I run for said flag,
	S.89° 39'E.on random line bet.secs.1 and 12,
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.02	Intersect E.bdy.of Tp.at the cor.of secs.1,6,7 and 12, heretofore described, and
	Thence I run
	N.89° 39'W.on true line bet.secs.1 and 12,
	Over level alkali land.

Subdivision T 2 S., R. 9 W.

Chains.	Over level
40.01	Set a sandstone 15x6x6 ins., 10 i ns.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; dig pits 18x18x12 ins.E. & W.of stone 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high N.of cor.
80.02	The cor.of secs.1,2,11, and 12.
	Land level.
	Soil saline; 2d rate.
	No timber.

A flag previously set at the cor.of secs.1,2,35 and 36 on N.bdy.of Tp., being plainly visible, I run for said flag,

N.0°01'W.on random line bet.secs.1 and 2,

40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.78	Intersect N. bdy.of the Tp.at the cor.of secs.1,2,35 and 36 as established by myself and heretofore described. Thence I run

S.0°01'E. on true line bet.secs.1 and 2,

	Over level alkali land.
17.78	Leave alkali flat; enter gently rolling sandy land and dense greasewood undergrowth bears N.45° W. and S. 45°E.
39.78	Set a limestone 18x10x4 ins., 12 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; dig pits 18x18x12 ins.N. and S.of stone 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high W.of cor.
67.78	Leave dense undergrowth; enter alkali flat bears E. & W.
79.78	The cor.of secs.1,2,11, and 12.
	Land level or gently rolling.
	Soil saline and sand; 2d rate.
	No timber.
	Undergrowth greasewood.

Chains. Land covered with dense undergrowth 50.00 chs.

Nov.9: At the cor.of secs.2,3,34 and 35 on the S.bdy. of the Tp.;lat.40°35'38"N.;long.112°50'36" W. I set off 40° 36'N.on lat.arc; 16°51'S.on decl.arc;and at 3h.14m.p.m.l.m.t.determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground 5 chs.N.of the cor. Nov.9, 1905.

Nov.10: At 4h.07m.a.m.l.m.t.I observe Polaris at western elongation, in accordance with Manual of Instructions; and mark a point in the line thus determined, on a peg driven in the ground, 5 chs.N.of my station.

At 7 a. m. I lay off the azimuth of Polaris 1° 35' to the east, and mark the meridian thus determined by cutting a small groove in the stone set Nov.9, on which the meridian falls 0.4 ins.E.of the mark determined by the solar.

At 7h.44m.a.m.l.m.t.I set off 40°36'N.on lat.arc; 17°02' S.on decl.arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs.N.of my station; this mark falls 0.3 ins.E.of the meridian established by the Polaris observation.

The solar apparatus by p.m.and a.m.observations defines positions for meridians, respectively about 0'16"E. and 0'21"W.of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h.30m. a.m.is N.17°25'W; the angle thus determined gives the mag.decl. 17°25'E.

Thence I run N.0°02'W.bet.secs.34 and 35,

Over level land; through dense greasewood and shadscale

Subdivision T. 2 S. R. 9 W.

Chains.	
	undergrowth.
40.00	Set a sandstone 15x6x6 ins., 10 ins.in the ground,for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; dig pits 18x18x12 ins. N. and S.of stone, 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high W.of cor.
80.00	Set a limestone 18x10x6 ins., 12 ins.in the ground,for cor.of secs.26,27,34, and 35, marked with 1 notch on S. and 2 notches on E.edge; dig pits 18x18x12 ins.in each sec.$5\frac{1}{2}$ ft.dist.; and raise a mound of earth 4 ft. base, 2 ft.high W.of cor.
	Land level.
	Soil sand and clay; 2d rate.
	No timber. Undergrowth greasewood and shadscale.
	Land covered with dense undergrowth 80.00 chs.
	A flag previously set at the cor.of secs.25,26,35, and 36 being plainly visible, I run for said flag, S.89° 44'E.on random line bet.secs.26 and 35,
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.02	Intersect N. and S.line at cor.of secs.25,26,35, and 36
	Thence I run N.89°44'W.on true line bet.secs.26 and 35,
	Over level land; through dense shadscale and greasewood.
12.00	Road,Redlam Spr.from Iosepa, bears N.45°W. and S.45°E.
40.01	Set a sandstone 15x6x6 ins., 10 ins in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; dig pits 18x18x12 ins. E. and W .of stone 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high N.of cor.
80.02	The cor.of secs.26,27,34, and 35.
	Land level. Soil, clay and sand; 2d rate. No timber. Undergrowth shadscale and greasewood. Land covered with dense undergrowth 80.02 chs.
	N.0°02'W.bet.secs.26 and 27.
	Over level land; through dense shadscale and greasewood undergrowth
40.00	Set a sandstone 15x10x6 ins., 10 ins.in the ground,for

Subdivision of T. 2 S., R. 9 W.

Chains.

$\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; dig pits 18 x18 x 12 ins.N. and S.of stone 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high W.of cor.

75.33 Road to Redlam spr.from Iosepa,bears N.45°W.and S.45°E.

80.00 Set a sandstone 15x10x6 ins., 10 ins.in the ground,for cor.of secs.22,23,26, and 27, marked with 2 notches on S. and E.edges; dig pits 18x18x12 ins.in each sec. $5\frac{1}{2}$ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

Land level.

Soil sand and clay; 2d rate.

No timber. Undergrowth shadscale and greasewood.

Land covered with dense undergrowth 80.00 chs.

A flag previously set at the cor.of secs.23,24,25, and 26 being plainly visible, I run for said flag,

S.89° 43'E.on random line bet.secs.23 and 26,

40.00 Set temp.$\frac{1}{4}$ sec.cor.

80.00 Intersect N. and S.line at the cor.of secs.23,24,25 and 26. Thence I run

N.89° 43'W.on true line bet.secs.23 and 26,

Over level land; through dense shadscale and greasewood undergrowth.

40.00 Set a sandstone 15x6x6 ins., 10 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; dig pits 18x18x12 ins E. and W.of stone, 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high N.of cor.

80.00 The cor.of secs.22,23,26, and 27.

Land level.

Soil sand and clay; 2d rate.

No timber. Undergrowth shadscale and greasewood.

Land covered with dense undergrowth 80.00 chs.

Subdivision of T. 2 S., R. 9 W.

Chains.	
	N.0°02'W.bet.secs.22 and 23,
	Over almost level land, sloping very gently to the E. through dense greasewood undergrowth.
40.00	Set a sandstone 15x10x4 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x12 ins. N. and S.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.
80.00	Set a quartzite stone 15x9x7 ins., 10 ins.in the ground for cor.of secs.14,15,22 and 23, marked with 3 notches on S. and 2 notches on E.edge; dig pits 18x18x12 ins. in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.
	Land almost level.
	Soil sand and clay; 1st and 2d rate.
	No timber. Undergrowth greasewood.
	Land covered with dense undergrowth 80.00 chs.
	A flag previously set at the cor.of secs.13,14,23 and 24 being plainly visible, I run for said flag,
	S.89° 44'E.on random line bet.secs.14 and 23,
40.00	Set temp.¼ sec.cor.
79.98	Intersect N. and S.line at cor.of secs.13,14,23 and 24,
	Thence I run
	N.89° 44'W.on true line bet.secs.14 and 23,
	Over almost level land, sloping gently to the E.; through dense shadscale and greasewood undergrowth.
39.99	Set a quartzite stone 15x6x6 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; dig pits 18 x18 x12 ins.E. and W.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.
79.98	The cor.of secs.14,15,22, and 23.
	Land almost level.
	Soil sand, clay, and saline, 1st, 2d, and 3d rate.
	No timber. Undergrowth shadscale and greasewood.

Subdivision of T.2 S., R. 9 W.

Chains.	
	Land covered with dense undergrowth 79.98 chs.
	Nov.10: At this cor.I set off 17° 06'S.on decl.arc; and at 11 h.44 m.a.m.l.m.t.observe the sun on the meridian; the resulting lat.is 40° 38'N.
	N.0°02'W.bet.secs.14 and 15,
	Over level land, through dense shadscale and greasewood undergrowth.
40.00	Set a limestone 18x6x5 ins., 12 ins.in the ground,for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x12 ins. N. and S.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.
80.00	Set a quartzite stone 15x7x6 ins., 10 ins.in the ground for cor.of secs.10,11,14, and 15, marked with 4 notches on S. and 2 notches on E.edges; dig pits 18x18x12 ins.in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.
	Land level.
	Soil sand, clay, and saline, 2d rate.
	No timber. Undergrowth shadscale and greasewood.
	Land covered with dense undergrowth on 80.00 chs.
	A flag previously set at the cor.of secs.11,12,13, and 14 being plainly visible, I run for said flag,
	S.89° 46'E.on random line bet.secs.11 and 14,
40.00	Set temp.¼ sec.cor.
80.00	Intersect N. and S.line at the cor.of secs.11,12,13, and 14. Thence I run
	N.89° 46'W.on true line bet.secs.11 and 14,
	Over level land; through dense shadscale and greasewood undergrowth.
40.00	Set a limestone 15x7x6 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on N.face; dig pits 18x18x12

Chains.	
	ins.E. and W.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.
80.00	The cor.of secs.10,11,14, and 15,
	Land level.
	Soil sand and saline; 2d rate.
	No timber. Undergrowth shadscale and greasewood.
	Landcovered with dense undergrowth 80.00 chs.
	N.0°02'W.bet.secs.10 and 11,
	Over level land; through dense shadscale and greasewood undergrowth.
40.00	Set a limestone 15x7x5 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x12 ins. N. and S.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.
80.00	Set a limestone 15x8x6 ins., 10 ins.in the ground for cor.of secs.2,3,10, and 11, marked with 5 notches on the S. and 2 notches on the E.edges; dig pits 18x18x 12 ins.in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.
	Land level.
	Soil clay, sand, and saline; 2d and 3d rate.
	No timber; Undergrowth greasewood and shadscale.
	Land covered with dense undergrowth 80.00 chs.
	A flag previously set at the cor.of secs.1,2,11. and 12 being plainly visible, I run for said flag,
	S.89° 40'E.on random line bet.secs.2 and 11,
40.00	Set temp.¼ sec.cor.
79.98	Intersect N. and S.line at the cor.of secs.1,2,11, and 12. Thence I run
	N.89° 40'W.on true line bet.secs.2 and 11,
	Over level alkali land.

9 W.

Chains

4.00 Leave alkali land; enter dense greasewood undergrowth, bears N. and S.

39.99 Set a sandstone 15x6x6 ins., 10 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; dig pits 18x18x12 ins.E. and W.of stone 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high N.of cor.

79.98 The cor.of secs.2,3,10, and 11.

Land level.

Soil saline, sand, and clay; 2d and 3d rate.

No timber.

Undergrowth greasewood.

Land covered with dense undergrowth 75.98 chs.

A flag previously set at the cor.of secs.2,3,34 and 35 on N.bdy.of Tp.being plainly visible, I run for said flag,

N.0°02'W.on random line bet.secs.2 and 3,

40.00 Set temp.$\frac{1}{4}$ sec.cor.

79.87 Intersect N. bdy.of Tp.at the cor.of secs.2,3,34, and 35, as established by myself, and heretofore described.

Thence I run

S.0°02'E.on true line bet.secs.2 and 3,

Over level land; through dense greasewood undergrowth.

39.87 Set a sandstone 15x10x5 ins., 10 ins. in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; dig pits 18x18x12 ins.N. and S.of stone 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high W.of cor.

79.87 The cor.of secs.2,3,10, and 11.

Land level.

Soil sandy clay and saline, 2d rate.

No timber.

Undergrowth greasewood.

Land covered with dense undergrowth 79.87 chs.

Subdivision of T. 3 S., R. 9 W.

Chains.

Nov.10, 1905:

I examine the adjustments of the transit and correct the level and collimation errors; then to test the solar apparatus by comparing its indications resulting from solar observations made during a.m.and p.m. hours with a meridian determined by observations on Polaris I proceed as follows:

At the cor.of secs.3,4,33 and 34 on the S.bdy.of the Tp, as established by myself, and heretofore described I set off 40° 36'on the lat.arc, 17° 07'S.on the decl.arc; and at 3 h.44 m.p.m.l.m.t.determine a meridian with the solar and mark a point thereof on a wooden plug firmly set in the ground 5 chs.N.of my station.

Nov.10, 1905.

Nov.11: At 4 h.03 m.a.m.l.m.t.I observe Polaris at western elongation in accordance with the Manual of Instructions, and mark a point in the line thus determined on a peg driven into the ground 5 chs.N.of my station.

At 7h.30m.a.m.l.m.t.I lay off the azimuth of Polaris 1° 35' to the east and mark the meridian thus determined by cutting a cross on the plug set Nov.10, on which the meridian falls 0.4 ins.east of the mark determined by the solar.

At 8 h.14 m.a.m.l.m.t.I set off 40° 36' N.on the lat. arc, 17° 19' S.on the decl.arc; and mark a point in the meridian determined by the solar by a groove in the plug already set 5.00 chs.N.of my station, on which the mark falls 0.4 ins.east of the meridian established by the Polaris observations.

The solar apparatus by p.m.and a.m.observations defines positions for meridians respectively about 0'

Chains	
	21" E. and 0' 21" W. of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory. The magnetic bearing of the true meridian at 9 h.a.m. is N.17°13'W., the angle thus determined gives the mag.decl.17° 13'E.
	From the cor.of secs.3,4,33 and 34 on S.bdy.of Tp. already described I run
	N.0°.02'W.bet.secs.33 and 34,
	Over almost level or very gently rolling land; through dense shadscale and greasewood undergrowth.
40.00	Set a sandstone 15x10x5 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x12 ins. N. and S.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.
74.00	Leave dense undergrowth bears E. & W.
80.00	Set a sandstone 15x9x6 ins., 10 ins.in the ground for cor.of secs.27,28,33, and 34, marked 1 notch on S. and 3 notches on E.edges; dig pits 18x18x12 ins.in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft high W.of cor.
14/6	
	Land gently rolling and level.
	Soil stony and sand; 1st and 2d rate.
	No timber.
	Undergrowth shadscale and greasewood.
	Land covered with dense undergrowth 74.00 chs.
	A flag previously set at the cor.of secs.26,27,34, and 35 being plainly visible, I run for said flag
	East on random line bet.secs.27 and 34,
40.00	Set temp.¼ sec.cor.

Subdivision of T. 2 S., R. 9 W.

Chains.	
79.80	Intersect N. and S.line at the cor.of secs.26,27,34, and 35. Thence I run
	West on true line bet.secs.27 and 34,
	Over level land; through dense shadscale and greasewood undergrowth.
39.90	Set a limestone 15x10x4 ins., 10 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; dig pits 18x18x12 ins.E. and W.of stone, 3 ft.dist., and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high N.of cor.
70.00	Leave dense undergrowth bears N. 45° W. and S. 45° E.
76.00	Road bears N.45° W. and S. 45° E.
79.80	The cor.of secs.27,28,33, and 34.
	Land level.
	Soil sandy; 2d rate.
	No timber.
	Undergrowth shadscale and greasewood.
	Land covered with dense undergrowth 70.00 chs.

	N.0°02'W.bet.secs.27 and 28,
	Over level land.
6.00	Road bears N. 45° W. and S. 45° E.
	Enter dense shadscale and greasewood undergrowth.
40.00	Set a sandstone 15x10x6 ins., 10 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; dig pits 18x18x12 ins. N. and S. of stone 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high W.of cor.
80.00	Set a quartzite stone 18x6x6 ins., 12 ins.in the ground for cor.of secs. 21,22,27, and 28, marked with 2 notches on S. and 3 notches on E.edge; dig pits 18x18x12 ins.in each sec.$5\frac{1}{2}$ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.
	Land almost level.
	Soil sandy; 1st rate.

9

Chains.

No timber.

Undergrowth shadscale and greasewood.

Land covered with dense undergrowth 74.00 chs.

East on random line bet.secs.22 and 27

40.00 Set temp. ¼ sec.cor.

79.84 Intersect N. and S.line 14 lks.S.of the cor.of secs.22 23,26, and 27.

Thence I run

S.89° 54'W.on true line bet.secs.22 and 27,

Over very gently rolling ground; through dense shadscale and greasewood undergrowth.

5.00 Road from Iosepa, to Redlam Spring bears N. 45° W. and S. 45° E.

35.75 Wash 10 ft.deep 30 lks.wide, drains S.70° E.

39.92 Set a limestone 15x10x4 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on N.face; dig pits 18x18x12 ins.E. and W.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.

55.00 Wash 15 lks.wide, 4 ft.deep, drains S.50° E.

79.84 The cor.of secs. 21,22, 27, and 28.

Land almost level, very gently undulating and sloping to the east.

Soil sandy; 1st rate.

No timber.

Undergrowth shadscale and greasewood.

Land covered with dense undergrowth 79.84 chs.

N.0°02'W.bet.secs.21 and 22,

Over very gently undulating ground; through dense greasewood and shadscale undergrowth.

Subdivision of T 2 S R 9 W

Chains.	
18.40	Wash 25 lks.wide, 8 ft.deep, drains S.60° E.
25.50	Wash 15 lks.wide, 3 ft.deep, drains S.70° E.
	These two washes join 10 chs.above,
38.70	Wash 10 lks.wide, 2 ft.deep, drains E.
40.00	Set a sandstone 15x9x6 ins., 10 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; dig pits 18x18x12 ins. N. and S.of stone 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high W.of cor.
76.00	Road to Redlam Spring from Iosepa , bears N. 45° W. and S. 45° E.
80.00	Set a sandstone 18x10x10 ins., 12 ins.in the ground for cor.of secs.15,16.21, and 22, marked 2 S on NE. 9 W on SE,face, with 3 notches on S. and E.edges dig pits 18x18x12 ins.in each sec.$5\frac{1}{2}$ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.
	Land very gently rolling.
	Soil stony, sand, and gravel, 1st and 2d rate.
	No timber.
	Undergrowth shadscale and greasewood.
	Land covered with dense undergrowth 80.00 chs.

	A flag previously set at the cor.of secs.14,15,22 and 23 being plainly visible, I run for said flag, N.89° 53'E.on random line bet.secs.15 and 22,
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.86	Intersect N. and S.line at the cor.of secs.14,15,22 and 23. Thence I run S.89° 53'W.on true line bet.secs.15 and 22,
	Over gently undulating ground; through dense shadscale and greasewood undergrowth.
39.93	Set a sandstone 15x8x5 ins.10 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; dig pits 18x18x12

Subdivision of T 2 R. 9 W.

Chains. ins.E. and W.of stone 3 ft.dist., and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.

79.86 The cor.of secs.15,16,21, and 22.

Land gently undulating.

Soil sandy; 2d rate.

No timber.

Undergrowth shadscale and greasewood.

Land covered with dense undergrowth 79.86 chs.

Nov.11: At this cor.I set off 17° 23'S.on decl.arc, and at 11 h.44 m.a.m.l.m.t.observe the sun on the meridian;the resulting lat.is 40° 38'N.

N.0°02'W.bet.secs.15 and 16,

Over gently rolling land; through dense shadscale undergrowth.

40.00 Set a sandstone 15x8x5 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x12 ins.N. and S.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.

80.00 Set a quartzite stone 15x8x7 ins., 10 ins.in the ground for cor.of secs.9,10,15, and 16, marked 4 notches on S. and 3 notches on E.edges; dig pits 18x18x12 ins. in each sec. 5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

Land gently rolling.

Soil sandy; 2d rate.

No timber.

Undergrowth shadscale.

Land covered with dense undergrowth 80.00 chs.

A flag previously set at the cor.of secs.10,11,14, and 15 being plainly visible, I run for said flag,

Subdivision of T. 2 S. R. 9 W.

Chains.	
	S.89° 55'E.on random line bet.secs.10 and 15,
40.00	Set temp.¼ sec.cor.
79.90	Intersect N. and S.line at the cor.of secs.10,11,14, and 15. Thence I run
	N.89° 55'W.on true line bet.secs.10 and 15,
	Over level land; through dense shadscale undergrowth.
39.95	Set a sandstone 15x8x5 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on N.face; dig pits 18x18x12 ins. E. and W.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.
79.90	The cor.of secs.9,10,15, and 16,
	Land almost level.
	Soil sandy, 1st.and 2d rate.
	No timber.
	Undergrowth shadscale.
	Land covered with dense undergrowth 79.90 chs.

	N.0°02'W.bet.secs.9 and 10,
	Over almost level land; through dense shadscale and greasewood undergrowth.
14.70	Wash 15 lks.wide, 2 ft.deep, drains S.70°E.
40.00	Set a limestone 15x7x6 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x12 ins.N. and S.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.
62.80	Wash 30 lks.wide, 2 ft.deep drains N.75° E.
	Road from Low Pass to Eight Mile Spr., bears N.45° E. and S.45° W.
	Begin ascent.
72.00	Top of ascent, 50 ft.above wash, bears E. and W.
	A limestone ledge 50 lks.W. bears N. and S.
80.00	Set a sandstone 18x6x6 ins., 12 ins.in the ground,for cor.of secs.3,4,9, and 10, marked with 5 notches on

Subdivision of T. 2 S., R. 9 W.

Chains

S. and 3 notches on E.edges; dig pits 18 x18x12 ins. in each sec.5½ ft.dist. ; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

Land gently rolling.

Soil sand and gravel; 2d rate.

No timber.

Undergrowth shadscale and greasewood.

Land covered with dense undergrowth 80.00 chs.

A flag previously set at the cor.of secs.2,3,10, and 11 being plainly visible, I run for said flag,

S.89° 53'E.on random line bet.secs.3 and 10,

40.00 Set temp.¼ sec.cor.

80.00 Intersect N. and S.line at the cor.of secs.2,3,10, and 11. Thence I run

N.89° 53'W.on true line bet.secs.3 and 10,

Over almost level land; through dense greasewood and shadscale undergrowth.

40.00 Set a limestone 15x10x4 ins., 10 ins.in the ground,for ¼ sec.cor, marked ¼ on N.face; dig pits 18x18x12 ins. E. and W.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.

67.10 Road from Low Pass to Eight Mile Spring, bears N. and S.

80.00 The cor.of secs.3,4,9, and 10.

Land level;and gently rolling at west end.

Soil, sandy; 2d rate.

No timber.

Undergrowth greasewood and shadscale.

Land covered with dense undergrowth 80.00 chs.

Subdivision of T. 2 S., R. 9 W.

Chains.

N.0°02'W.on random line bet.secs.3 and 4

40.00 Set temp.$\frac{1}{4}$ sec.cor.

79.80 Intersect N.bdy.of Tp.24 lks.W.of the cor.of secs.3,4, 33 and 34, as established by myself and heretofore described. Thence I run

S.0°08'W.on true line bet.secs.3 and 4,

Over mountainous, broken, land; through dense sagebrush and shadscale undergrowth.

15.80 Top of quartzite ridge, 120 ft.above sec.cor., bears N.45° W. and S.45° E., 150 ft.above last named sec. cor. and descend S.face of mountain.

39.80 Set a limestone 15x10x5 ins., 10 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; dig pits 18x18x12 ins.N. and S.of stone 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high W.of cor.

58.30 Ravine 80 ft.below ridge, drains E.

79.80 The cor.of secs.3,4,9, and 10.

Land mountainous and broken.

Soil stony; 2d and 3d rate.

No timber.

Undergrowth sagebrush and shadscale.

Mountainous land, or land covered with dense undergrowth 79.80 chs.

Nov.11, 1905.

Nov.12: At 7h.14 m.a.m.l.m.t.I set off 40° 36'N.on lat.arc; 17° 24'S.on decl.arc; and determine a meridian with the solar at the cor.of secs.4,5 ,32, and 33 on S.bdy.of the Tp., as re-established by myself and heretofore described.

Thence I run

N.0°03'W.bet.secs.32 and 33,

Over slightly undulating land; through dense shadscale

bdivisions of T. 2 S. R. 9 W.

Chains.

undergrowth.

8.30 Wash 15 lks.wide, 2 ft.deep, drains N.45° E.

37.20 Road from Redlam Spr. to Eight Mile Spring, bears N.25° E. and S.25° W.

40.00 Set a limestone 15x10x5 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x12 ins.N. and S.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W .of cor.

80.00 Set a quartzite stone 15x6x6 ins., 10 ins.in the ground for cor.of secs.28,2 9,32 and 33, marked 1 notch on S. and 4 notches on E.edges; and raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.

Land very gently rolling.

Soil, gravel, 2d rate.

No timber.

Undergrowth shadscale.

Land covered with dense undergrowth 80.00 chs.

A flag previously set at the cor.of secs.27,28,33, and 34 being plainly visible, I run for said flag, S.89° 46'E.on random line bet.secs.28 and 33,

40.00 Set temp.¼ sec.cor.

80.00 Intersect N. and S.line at the cor.of secs.27,28,33 and 34.

Thence I run

N.89° 46'W.on true line bet.secs.28 and 33,

Over level land.

4.00 Enter dense shadscale undergrowth bears N. and S.

40.00 S et a sandstone 15x7x5 ins.10 ins.in the ground,for ¼ sec.cor., marked ¼ on N.face; dig pits 18x18x12 ins. E. and W.of stone, 3 ft.dist.; and raise amound of earth 3½ ft.base, 1½ ft.high N.of cor.

70.60 Road to Redlam Spring, bears N. and S.

80.00 The cor.of secs.28,29,32, and 33.

Subdivision of T. 2 S., R. 9 W.

Chains.

Land level, or gently rolling.

Soil sand and gravel; 1st and 2d rate.

No timber.

Undergrowth shadscale.

Land covered with dense undergrowth 76.00 chs.

N.0°03'W.bet.secs.28 and 29,

Over rolling stony ground; along base of small mountain; through dense shadscale undergrowth.

40.00 Set a sandstone 15x12x4 ins., 10 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; dig pits 18x18x12 ins.N. and S.of stone 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high W.of cor.

80.00 Set a quartzite stone 15x6x6 ins., 10 ins.in the ground for cor.of secs.20,21,28, and 29, marked with 2 notches on S. and 4 notches on E.edges; dig pits 18 x18x12 ins.in each sec.$5\frac{1}{2}$ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

Land rolling and broken.

Soil stony and gravel; 2d and 3d rate.

Nontimbered with

Undergrowth shadscale.

Land covered with dense undergrowth 80.00 chs.

A flag previouslu set at the cor.of secs.21,22,27, and 28 being plainly visible, I run for said flag.

S.89° 44'E.on random line bet.secs.21 and 28,

40.00 Set temp.$\frac{1}{4}$ sec.cor.

80.02 Intersect N. and S.line at the cor.of secs.21,22,27, and 28. Thence I run

Subdivision of T. 2 S., R. 9 W.

Chains.	
	N.89° 44'W.on true line bet.secs.21 and 28,
	Over land almost level, or very slightly undulating; through dense sagebrush undergrowth.
37.20	Road to Redlam Spring, bears N.43° W. and S.43° E.
40.01	Set a sandstone 18x6x5 ins., 12 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; dig pits 18x18x12 ins.E. and W.of stone 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base $1\frac{1}{2}$ ft.high N.of cor.
75.00	Road from Redlam Springs to Eight Mile Spring. bears N. and S.
80.02	The cor.of secs.20,21,28, and 29.
	Land level and slightly undulating.
	Soil sand and gravel; 1st and 2d rate.
	No timber.
	Undergrowth sagebrush.
	Land covered with dense undergrowth 80.02 chs.

	N.0°03'W.bet.secs.20 and 21,
	Over gently rolling land; along the base of small mountain; through dense shadscale undergrowth.
40.00	Set a sandstone 15x10x5 ins., 10 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; dig pits 18x18x 12 ins.N. and S.of stone 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high W.of cor.
44.00	Road bears N.45° W.and S.45° E.
59.80	Wash 25 lks.wide, 3 ft.deep, drains S.70° E.
73.20	Wash 35 lks.wide, 5 ft.deep, drains E.
80.00	Set a quartzite stone 18x6x6 ins., 12 ins.in the ground for cor.of secs.16,17,20, and 21, marked with 3 notches on the S. and 4 notches on the E.edges; dig pits 18 c18c12 ins.in each sec.$5\frac{1}{2}$ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.
	Land gently rolling.
	Soil, sand and gravel, 2d rate.

Subdivision of T. 2 S., R. 9 W.

Chains.	
	No timber.
	Undergrowth, shadscale.
	Land covered with dense undergrowth 80.00 chs.

	A flag previously set at the cor.of secs.15,16,21, and 22 being plainly visible I run for said flag,
	S.89° 40' E.on random line bet.secs.16 and 21,
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.04	Intersect N. and S.line at the cor.of secs.15,16,21, a and 22. Thence I run
	N.89° 40'W.on true line bet.secs.16 and 21,
	Over gently rolling land; through dense shadscale undergrowth.
4.00	Road from Redlam Spring to Iosepa, bears N. [illegible] 45° W. and S.45° E.
40.02	Set a quartzite stone 15x7x6 ins., 10 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; dig pits 18x18x12 ins.E. and W.of stone, 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high N.of cor.
61.95	Road to Redlam Spring, bears N. and S.
80.04	The cor.of secs.16,17,20, and 21.
	A large knoll or small mountain lies to the NW., the south end,of which is about 5.00 chs.dist.
	The north.end of another large knoll or small mountain bears S.45° W. about 30 chsdist.
	Land gently rolling; [illegible]
	Soil sandy; 2d rate.
	No timber.
	Undergrowth shadscale.
	Land covered with dense undergrowth 80.04 chs.
	Nov.12: At this cor.I set off 17° 39' S.on decl.arc, and at 11 h.44 m.a.m.l.m.t.observe the sun on the meridian; the resulting lat.is 40° 38'N.

bdivision of T. 2 S. R. 9 W.

Chain. N.0°03'W.bet.secs.16 and 17,

Over rolling land; through dense shadscale undergrowth.

20.00 Begin ascent of spur of knoll bears N. 45° W. and S. 45° E.

30.00 Top of spur 100 ft.high, bears N.45° W. and S.45° E.

This spur ends about 10 chs.S.E.of here.

I proceed along east face of knoll or mountain,

40.00 Set a sandstone 18x6x5 ins., 12 ins.in the ground for ¼ sec.cor., marked ¼ on W.face for ¼ sec.cor., raise a mound of stone 2 ft.base, 1½ ft.high W.of cor. Pits impracticable.

64.00 Leave base of knoll, bears N.45° W. and S.45° E.

74.40 Road from Redlam Spring, to Iosepa, bears N.45° W. and S.45° E.

80.00 Set a sandstone 15x8x5 ins., 10 ins.in the ground for cor.of secs.8,9,16, and 17, marked with 4 notches on S. and E.edges; dig pits 18x18x12 ins. in each sec. 5½ ft.dist., and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

Land broken and rolling.

Soil sand, gravel and stone; 2d and 3d rate.

No timber.

Undergrowth shadscale.

Land covered with dense undergrowth 80.00 chs.

A flag previously set at the cor.of secs.9,10,15, and 16 being plainly visible, I run for said flag, S.89° 52'E.on random line bet.secs.9 and 16,

40.00 Set temp¼ sec.cor.

80.02 Intersect the N. and S.line at the cor.of secs.9,10, 15, and 16. Thence I run

N.89° 52 'W. on true line bet.secs.9 and 16,

Over almost level land; through dense shadscale and

Chains.	
	greasewood undergrowth.
36.50	Road from Low Pass to Eight Mile Spring, bears
40.01	Set a limestone 15x8x5 ins., 10 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; dig pits 18x18x12 ins.E. and W.of stone 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft. high N.of cor.
80.02	The cor.of secs.8,9,16, and 17.
	Land almost level,
	Soil sandy, 2d rate.
	No timber.
	Undergrowth shadscale and greasewood.
	Land covered with dense undergrowth 80.02 chs.

N.0°03'W.bet.secs.8 and 9,

	Over gently undulating ground, through dense shadscale undergrowth.
40.00	Set a sandstone 15x10x4 ins., 10 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; dig pits 18x18x12 ins.N. and S.of stone 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high W.of cor.
50.00	Redlam Wash, 50 lks.wide, 5 ft.deep, drains N.60° E.
64.000	Wash, 45 lks.wide, 4 ft.deep, drains E. This wash joins Redlam Wash about 10.00 chs.E.
	Begin ascent of rolling sand hills, bear E. and W.
80.00	Set a sandstone 18x6x6 ins., 12 ins.in the ground for cor.of secs.4,5,8, and 9, marked with 5 notches on S. and 4 notches on E.edges; dig pits 18x18x12 ins. in each sec.$5\frac{1}{2}$ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.
	Land undulating.
	Soil sandy, 2d rate.
	No timber.

Subdivision of T. 2 S., R 9 W.

Chains.	
	Undergrowth shadscale.
	Land covered with dense undergrowth 80.00 chs.
	A flag previously set at the cor.of secs.3,4,9, and 10 being plainly visible, I run for said flag,
	S.89° 50'E.on random line bet.secs.4 and 9,
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.10	Intersect N. and S.line at the cor.of secs.3,4,9, and 10. Thence I run
	N.89° 50'W.on true line bet.secs.4 and 9,
	Over rolling ground, up gentle ascent; through dense shadscale undergrowth.
36.00	Top of ascent, 10 ft.above sec.cor., bears N. and S., south spur of small mountain.
40.05	Set a quartzite stone 15x6x6 ins., 10 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; dig pits 18x18x12 ins.E. and W.of stone 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high N.of cor.
60.50	Wash, 12 ft.below ridge, drains S.45° E.
	Foot of Little mountain; thence over sand hills; ascending.
80.10	The cor.of secs.4,5,8, and 9.
	Land rolling.
	Soil gravel, stone, and sand; 1st and 2d rate.
	No timber.
	Undergrowth shadscale.
	Land covered with dense undergrowth 80.10 chs.
	N.0°03'W.on random line bet.secs.4 and 5,
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.00	Intersect N.bdy.of Tp. 45 lks.W.of the cor.of secs.4, 5,32, and 33, as established by myself and hereto-

Chains.	
	fore described.
	Thence I run
	S.0°16'W.on true line bet.secs. 4 and 5,
	Over rolling ground; through dense shadscale and sagebrush undergrowth.
3.00	Top of low divide,20 ft.above sec.cor., bears E. and W.
	Begin gentle descent.
20.30	Wash, 15 lks.wide, 2 ft.deep, drains S.45° E.
40.00	Set a quartzite stone 15x8x5 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x12 ins.N. and S.of stone 3 ft. dist., and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.
80.00	The cor.of secs.4,5,8, and 9.
	Land rolling.
	Soil sandy; 2d rate.
	No timber.
	Undergrowth sagebrush and sgadscale.
	Land covered with dense undergrowth 80. 00 chs.
	Nov.12, 1905.

	Nov.13: At 7 h.14 m.a.m.l.m.t.I set off 40° 36'N.on lat.arc, 17° 40'S.on decl.arc; and determine a meridian with the solar at the cor.of secs.5,6,31, and 32, on S.bdy.of Tp. as established by myself and heretofore described. Thence I run
	N.0°04'W.bet.secs.31 and 32,
	Over rolling broken ground; through dense shadscale and sagebrush undergrowth.
5.00	Hollow, 10 ft.below sec.cor., drains S.20° E. and ascend over broken ground along west base of little mountain.
40.00	Set a sandstone 18x6x6 ins., 12 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x12 ins.

Subdivision of T. 2 S., R. 9 W.

Chains. N. and S.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.

80.00 Set a quartzite stone 18x10x6,ins., 12 ins.in the ground for cor.of secs.29,30,31, and 32, marked with 1 notch on S. and 5 notches on E.edges; raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.

Pits impracticable.

Land rolling and broken.

Soil clay, sand, and gravel, 2d and 3d rate.

No timber.

Undergrowth shadscale and sagebrush.

Land covered with dense undergrowth 80.00 chs.

S.89° 48'E.on random line bet.secs.29 and 32,

40.00 Set temp.¼ sec.cor.

80.00 Intersect N. and S.line 28 lks. S.of cor.of secs.28,29 32, and 33. Thence I run

West on true line bet.secs.29 and 32,

Over gentle ascent; through dense shadscale undergrowth.

14.00 Foot of small mountain, bears N. and S.

40.00 Set a limestone 15x6x6 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on N.face; raise a mound of stone 2 ft.base, 1½ ft.high N.of cor.

Pits impracticable.

54.56 Top of small mountain, 800 ft.high, bears N. and S.

Descend.

72.50 Foot of small mountain, 500 ft.below top, bears N. and S.

80.00 The cor.of secs.29,30,31, and 32.

Land rolling and mountainous.

Soil stony, and gravel, 2d and 3d rate.

No timber.

Undergrowth shadscale.

Subdivision of T. 2 S., R. 9 W.

Chains	
	Mountainous land, or land covered with dense undergrowth 80.00 chs.
	N.89° 48'W.on random line bet.secs.30 and 31,
40.00	Set temp.¼ sec.cor.
79.60	Intersect W .bdy.of Tp.at cor.of secs.25,30,31, and 36 established by myself and heretofore described.
	Thence I run
	S.89° 48'E.on true line bet.secs.30 and 31,
	Over rolling broken land; through dense sagebrush undergrowth.
36.50	Road from Eight Mile Spring to Redlam Spring, bears N. 25° W. and S.25° E.
39.60	Set a sandstone 15x6x5 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on N.face; dig pits 18x18x12 ins.E. and W.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.
79.60	The cor.of secs.29,30,31, and 32.
	Land broken and rolling.
	Soil stony and clay; 2d and 3d rate.
	No timber.
	Undergrowth sagebrush.
	Land covered with dense undergrowth 79.60 chs.
	N.0°04'W.bet.secs.29 and 30,
	Over rolling ground, up gentle ascent; through dense sagebrush undergrowth.
18.00	Begin ascent of gravel bar, 50 ft.high, bears E, and W.
20.50	Top of bar, 150 ft.above sec.cor., bears E. and W. This bar connects the little mountain E.of here with the higher bench land, in the W., forming a divide. On the south of this divide water drains SE., while on

ubdivision T. 2 S., R. 9 W.

chains. the N.of it the water drains NE.

Begin descent over rolling broken land.

40.00 Set a limestone 15x8x8 ins., 10 ins.in the ground,for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.

Pits impracticable.

80.00 Set a quartzite stone 15x6x6 ins., 10 ins.in the ground for cor.of secs.19,20,29, and 30, marked with 2 notches on the S. and 5 notches on the E.edges; dig pits 18x18x12 ins.in each sec.$5\frac{1}{2}$ ft.dist., and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

Land rolling and broken.

Soil, sand and gravel, 2d rate.

Timber scattering cedar.

Undergrowth sagebrush.

Land covered with dense undergrowth with few scattering cedars 80.00 chs.

East on random line bet.secs.20 and 29,

40.00 Set temp.$\frac{1}{4}$ sec.cor.

80.00 Intersect N. and S.line 14 lks.S.of the cor.of secs.20, 21,28, and 29. Thence I run

S.89° 54'W.on true line bet.secs.20 and 29,

Over broken ground, ascending little mountain, through dense sagebrush undergrowth.

34.18 Top of little mountain, bears N. and S.550 ft.high.

Descend.

40.00 Set a limestone 15x8x5 ins., 10 ins.in the ground,for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; raised a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor.

Pits impracticable.

61.20 Hollow, 300 ft.below top of ridge.

80.00 The cor.of secs.19,20,29, and 30.

Subdivision T. 2 S., R. 9 W.

Chains	
	Land mountainous or broken.
	Soil stony gravel and sand, 2d and 3d rate.
	No timber.
	Undergrowth sagebrush.
	Mountainous land or land covered with dense undergrowth 80.00 chs.
	Nov.13: At this cor.I set off 17° 55'S.on decl.arc; and at 11h.44m.a.m.l.m.t.observe the sun on the meridian; the resulting lat.is 40° 37'N.
	A flag previously set at the cor.of secs.19,24,25 and 30 being plainly visible, I run for said flag, West on a random line bet.secs.19 and 30,
40.00	Set temp.¼ sec.cor.
79.56	Intersect W.bdy.of Tp.at cor.of secs.19,24,25 and 30, as established by myself and heretofore described.
	Thence I run East on true line bet.secs.19 and 30,
	Over rolling sandy land; through dense sagebrush undergrowth, and few scattering cedars.
37.56	Ravine drains N.45° E.
39.56	Set a limestone 15x6x6 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on N.face; raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.Pits impracticable.
79.56	The cor.of secs.19,20,29, and 30.
	Land gently rolling.
	Soil, sandy, 1st and 2d rate.
	Timber cedars.
	Undergrowth sagebrush.
	Land covered with dense undergrowth 79.56 chs.

division of T. 2 S. R. 9 W.

Chains	
	N.0°04'W.bet.secs. 19 and 20,
	Over rolling sandy land; through dense sagebrush undergrowth and few scattering cedars.
40.00	Set a sandstone 15x6x6 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18 x12 ins.N. and S.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.
	This cor.is on brow of sand ridge, descending into hollow.
42.50	Bottom of hollow, 160 ft.below ¼ sec.cor., drains N.45° E.; begin ascent.
60.00	Top of ascent, 150 ft.above hollow, bears N.40° E. and S.40° W.; descend.
67.00	Bottom of hollow, 90 ft.below ridge, drains N.48° E. Ascend.
73.00	Top of ascent, 75 ft.above hollow, bears N.50° E. and S.50° W.; descend.
80.00	Set a quartzite stone 15x6x6 ins., 10 ins.in the ground for.cor.of secs.17,18,19, and 20, marked with 3 notches on S. and 5 notches on E.edges; raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
	Pits impracticable.
	Land rolling and broken.
	Soil sandy, 2d rate.
	Timber scattering cedars.
	Undergrowth sagebrush.
	Land covered with dense undergrowth and scattering cedars 80.00 chs.
	A flag previously set at the cor.of secs.16,17,20, and 21 being plainly visible I run for said flag,
	N.89° 53'E.on random line bet.secs.17 and 20,
40.00	Set temp.¼ sec.cor.

Subdivision of T. 2 S. R. 9 W.

Chains.	
79.94	Intersect N. and S.line at the cor.of secs.16,17,20 and 21.
	Thence I run
	S.89° 53'W.on true line bet.secs.17 and 20,
	Over gently rolling land; through dense sagebrush undergrowth.
39.97	Set a limestone 15x8x6 ins., 10 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor.
	Pits impracticable.
	Foot of little mountain bears NE. about 4.00 chs.dist.
50.00	Wash 25 lks.wide, 3 ft.deep, drains S.70° E.
79.94	The cor.of secs.17,18,19, and 20.
	Land rolling.
	Soil, sandy; 2d rate.
	No timber.
	Undergrowth sagebrush.
	Land covered with dense undergrowth 79.94 chs.
	A flag previously set at the cor.of secs.13,18,19, and 24, being plainly visible, I run for said flag,
	West on random line bet.secs.18 and 19,
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.60	Intersect W.bdy.of Tp.at the cor.of secs.13,18,19, and 24, as established by myself and heretofore described.
	Thence I run
	East on true line bet.secs.18 and 19,
	Over rolling land; through dense sagebrush undergrowth.
29.60	Ravine drains N.70° E.
39.60	Set a limestone 15x8x6 ins., 10 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor.
79.60	The cor.of secs.17,18,19, and 20.

Subdivision of T. 2 S., R. 9 W.

Chains.	
	Land rolling.
	Soil sandy, 1st and 2 d rate.
	Timber, scattering cedars.
	Undergrowth sagebrush.
	Land covered with dense undergrowth and very few scattering cedars 79.60 chs.
	November 13, 1905.
	Nov.14: At 7h.44m.a.m.l.m.t.I set off 40° 38'N.on lat. arc; 18° 5'S.on decl.arc, and determine a meridian with the solar at the cor.of secs.17,18,19, and 20,
	Thence I run
	N.0°04'W.bet.secs.17 and 18,
	Over almost level land cut with small hollows or washes, through dense sagebrush undergrowth.
8.00	Descend into hollow or wash.
8.80	Bottom of hollow, 25 ft.below top of descent, drains E.
	Ascend.
13.00	Top of ascent, 30 ft.above hollow, bears E. & W.
	Descend.
23.00	Bottom of hollow, 35 ft.below top of ridge, drains E.
	Ascend.
29. 00	Top of ascent, 40 ft.above hollow, bears E. and W.
	Descend.
40.00	Set a sandstone 15x12x4 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.Pits impracticable.
47.00	Hollow, 35 ft.below ridge, drains E.
	Ascend.
50.00	Top of ascent, 30 ft.above hollow, bears E. and W.
	Continue over land cut with small washes.
80.00	Set a quartzite stone 15x6x6 ins., 10 ins.in the ground

Subdivision of T. 2 S., R. 9 W.

Chains.	
	for cor.of secs.7,8,17, and 18, marked with 4 notches on the S. and 5 notches on the E.edges; dig pits 18 x18x12 ins.in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.
	Land broken and rolling.
	Soil sandy and gravel; 2d rate.
	No timber.
	Undergrowth sagebrush.
	Land covered with dense undergrowth 80.00 chs.
	A flag previously set at the cor.of secs.8,9,16, and 17 being plainly visible, I run for said flag,
	S.89° 50'E.on random line bet.secs.8 and 17,
40.00	Set temp.¼ sec.cor.
79.92	Intersect N. and S.line at the cor.of secs.8,9,16, and 17. Thence I run
	N.89° 50'W.on true line bet.secs.8 and 17,
	Over gently rolling ground; through dense shadscale and sagebrush undergrowth.
4.75	Road , Redlam Spring to Ibsepa, bears N.45°W. & S.45°E.
10.00	North base of little mountain bears N. and S.
39.96	Set a sandstone 15x6x6 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on N.face; raise a mound of stone 2 ft.base, 1½ ft.high N.of cor.
	Pits impracticable.
79.92	The cor.of secs.7,8,17, and 18.
	Land,gently rolling.
	Soil,sandy and gravel; 2d rate.
	No timber.
	Undergrowth,sagebrush.
	Land covered with dense undergrowth 79.92 chs.
	A flag previously set at the cor.of secs.7,12,13, and 18

Chains	
	being plainly visible, I run for said flag,
	N.89° 53'W.on random line bet.secs.7 and 18,
40.00	Set temp.¼ sec.cor.
79.56	Intersect W.bdy.of Tp.at the cor.of secs.7,12,13, and 18, as established by myself, and heretofore described. Thence I run
	S.89° 53'E.on true line bet.secs.7 and 18,
	Over mountainous and rolling ground; through dense sage brush undergrowth.
5.30	Foot of mountain, 30 ft.below sec.cor., bears N.30° E. and S.30° W.
10.56	Road from Eight Mile Spring to Redlam Spring, bears N. 10° E. and S.10° W.
39.56	Set a limestone 15x6x6 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on N.face; and raise a mound of stone 2 ft.base, 1½ ft.high N.of cor.
79.56	The cor.of secs.7,8,17, and 18.
	Land mountainous and broken.
	Soil stony and sand, 3d rate.
	No timber.
	Undergrowth sagebrush.
	Land covered with dense undergrowth 79.56 chs.

N.0°04'W.bet.secs.7 and 8,

	Over rolling land; through dense sagebrush undergrowth.
23.00	Begin descent into Redlam Spring hollow, bears N.80° E. and S.80° W.
24.25	Bottom of hollow, 50 ft.deep, drains N.80° E.
	Ascend.
26.50	Top of ascent, bears E. and W.
27.60	Road to Redlam Spring, bears N.80° E. and S.80° W.
40.00	Set a sandstone 18x6x6 ins., 12 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; raise a mound of

Subdivision of T. 2 S. R. 9

Chains.	
	stone 2 ft.base, 1½ ft.high W.of cor.Pits impracticable.
	Begin gentle descent.
54.25	Road from Redlam to Low Pass, bears N.45° E. and S.45° W.; also wash drains E.
64.60	Wash, 30 lks.wide, 3 ft.deep, drains E.
	Ascend bluff.
69.00	Top of bluff,60 ft.above wash, bears N. 45° E. and S. 45° W.
	This bluff or tableland ends about 6.00 chs.E.of this point.
73.50	Begin descent from bluff bears N.45° E.and S.45° W.
80.00	Set a sandstone 18x7x6 ins., 12 ins.in the ground for cor.of secs. 5,6,7, and 8, marked with 5 notches on S. and E edges; dig pits 18x18x12 ins.in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft high W.of cor.
	Land rolling.
	Soil stony, sand, and gravel;2d and 3d rate.
	No timber.
	Undergrowth sagebrush.
	Land covered with dense undergrowth 80.00 chs.
	Nov.14: At this cor.I set off 18° 11'S.on decl.arc, and at 11h.44 m.a.m.l.m.t.observe the sun on the meridian; the resulting lat.is 40° 40'N.
	A flag previously set at the cor.of secs.4,5,8, and 9, being plainly visible, I run for said flag, S.89° 50'E.on random line bet.secs.5 and 8,
40.00	Set temp.¼ sec.cor.
79.88	Intersect N. and S.line at the cor.of secs.4,5,8, and 9. Thence I run

3 S R 9 1

Chains. N.89° 50'W.on true line bet.secs.5 and 8,

Over gently rolling sandy land; through dense shadscale and sagebrush undergrowth.

39.94 Set a sandstone 15x6x5 ins., 10 ins.in the ground, for ¼ sec.cor., marked ¼ on N.face; dig pits 18x18x12 ins.E.and W.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.

61.68 Road to BowlPass from Redlam Spring bears N.15° E. and S.15° W.

79.88 The cor.of secs.5,6,7, and 8.

Land gently rolling or level.

Soil, sandy; 2d rate.

No timber.

Undergrowth shadscale and sagebrush.

Land covered with dense undergrowth 79.88 chs.

A flag previously set at the cor.of secs.1,6,7, and 12 being plainly visible, I run for said flag,

N.89° 54'W.on random line bet.secs.6 and 7,

40.00 Set temp.¼ sec.cor.

79.51 Intersect W.bdy.of Tp.at cor.of secs.1,6,7, and 12, as established by myself and heretofore described.

Thence I run

S.89° 54'E.on true line bet.secs.6 and 7,

Over mountainous,broken, and rolling land; through dense sagebrush undergrowth, down steep descent.

7.50 Foot of mountain, 65 ft.below sec.cor., bears N.30° E. and S.30° W.

39.51 Set a quartzite stone 15x6x6 ins., 10 ins.in the groun for ¼ sec.cor., marked ¼ on N.face; dig pits 18x18x1 ins.E. and W.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.

79.51 The cor.of secs.5,6,7, and 8.

Subdivision of T. 2 S., R. 9 W.

Chains	
	Land mountainous, broken and rolling.
	Soil, stony, gravel, and sand; 2d and 3d rate.
	No timber.
	Undergrowth sagebrush.
	Land covered with dense undergrowth 79.51 chs.
	N.0°04'W.on random line bet.secs.5 and 6,
40.00	Set temp.¼ sec.cor.
79.95	Intersect N.bdy.of Tp.25 lks.E.of the cor.of secs.5,6, 31 and 32, as established by myself and heretofore described. Thence I run
	S.0°15'E.on true line bet.secs.5 and 6,
	Over rolling ground; through dense sagebrush undergrowth.
19.20	West end of a knoll, which is about 5 chs.N. and S. and 10 chs.E. and W.
28.70	Wash, 25 lks.wide, 3 ft.deep, drains E.
39.95	Set a sandstone 15x8x5 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on W.face; raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.Pits impracticable.
44.00	Wash, 20 lks.wide, 3 ft.deep, drains E. and ascend.
59.70	Top of ascent, 45 ft.above wash, bears E. and W.
73.20	Begin descent into ravine, bears E. and W.
78.20	Bottom of ravine, 40 ft.below top of descent, drains E.
79.95	The cor.of secs.5,6,7, and 8.
	Land rolling.
	Soil, stony,gravel, and sand; 2d and 3d rate.
	No timber.
	Undergrowth sagebrush.
	Land covered with dense undergrowth 79.95 chs.
	Nov.14, 1905.

ENERAL DESCRIPTION .T. 2 S. R. 9 W.

This township is mainly a plain, or slightly rolling land, with a small mountain extending northerly and southerly, through the west and north central part, while at the NW.cor.we begin the ascent of the Cedar range of mountains, which extend in a north or northeasterly direction.

The soil is saline or alkaline in the east and northeast; sandy loam, clay, and gravel in the central; and stony in the western part.

The whole township, except the alkali flats, produces a fair growth of grass and other forage; but, owing to the arid condition, is valuable only for grazing purposes.

There is no timber in the township, except a few scattering cedars in the west and northwest portions.

Indications of iron ore were found in sec.6, but not enough to warrant its return as mineral land.

Except the one small spring, Redlam, in the western part of sec.7, water is entirely wanting in the township. Spring cannot be seen from line.

There are no settlers in the township.

Note:

In the survey of T. 2 S., R. 9 W., there being no officer authorized to administer oaths, other than myself, available, without great inconvenience, delay, and expense, I administer the required preliminary and final oaths myself.

Alonzo J. Stookey

U.S.Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Alonzo J. Stookey United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Subdivisions of T 2 S R 9 W Salt Lake Base and Meridian, Utah. showing the respective capacities in which they acted:

David Sharp Jr ..... Chainman.
Leonard Scott ..... Chainman.
Newell St Jeor ..... Moundman.
..... Moundman.
..... Axman.
..... Axman.
Lincoln A. Stookey ..... Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alonzo J. Stookey United States Deputy Surveyor in surveying all those parts or portions of the Subdivisions of T 2 S R 9 W ..... of the Salt Lake Base & meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah

David Sharp Jr ..... Chainman.
Leonard Scott ..... Chainman.
Newell St Jeor ..... Moundman.
..... Moundman.
..... Axman.
..... Axman.
Lincoln A. Stookey ..... Flagman.

Subscribed and sworn to before me this 15 day of Nov 1905, 189

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alonzo J. Stookey, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the 1" day of June 1905, 189 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivisions of Township 2 South of Range 9 West of the Salt Lake Base & meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Alonzo J. Stookey
United States Deputy Surveyor.

Subscribed by said Alonzo J. Stookey, and sworn to before me this 29th day of March 1907, ~~189~~

Thomas Hull
U.S. Surveyor General
for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 20 1907, ~~189~~

The foregoing field notes of the survey of the Subdivisional lines of Township No.2 South, Range No.9 West of the Salt Lake Base and Meridian, Utah,

executed by Alonzo J.Stookey under his contract No. 290, dated Junel, 1905, 189 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in ....., has been correctly copied from the original notes on file in this office.

United States Surveyor Gene...

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BOOK A-334

D.

FIELD NOTES

S.B.

~~OF THE SURVEY OF THE~~

M.M.L.
H.S.B.

F THE RETRACEMENT AND RESURVEY

of

The Guide Meridian

Through Township No. 2 North between Ranges 8 and 9 West

Of the Salt Lake Base and *Meridian,*

Utah.

AS SURVEYED BY

Alonzo J. Stookey, *United States Deputy Surveyor,*

ler his Contract No. 290, *dated* June 1, 1905, ~~190~~

acement and
vey commenced June 21, 1906. ~~190~~

acement and
vey completed June 22, 1906. ~~190~~

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[illegible] 1 00 00

NAMES AND DUTIES OF ASSISTANTS.

David Sharp Jr.	Chainman
Melvose Green	Chainman
Lionel J. Stookey	Chainman
Allen S. Bowden	Chainman
Lionel J. Stookey	Monumenter
Lincoln A. Stookey	Flagman

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BOOK A-334

INDEX DIAGRAM.

Township 2 North, *Range* 9 West

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PRELIMINARY OATHS OF ASSISTANTS.

We, David Shark Jr & Ambrose Green, Lionel J. Stookey [illegible]
do solemnly swear that we will well and faithfully execute the duties of chainmen, that we will [illegible]
chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the [illegible]
we will report the true distances to all notable objects, and the true lengths of all lines that [illegible]
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the [illegible]
retracement [illegible]
the Guide Meridian through T.2 North between Ranges [illegible]
West of the Salt Lake Base and Meridian Utah.

Lionel J. Stookey — David Shark Jr — Chainmen
Allen L. Bowden — Ambrose Green — Chainmen

Subscribed and sworn to before me this 01
day of June, 1906

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

We, Lionel J. Stookey and
do solemnly swear that we will well and truly perform the duties of moundman in the establishment
of corners, according to the instructions given ~~us~~ and to the best of ~~our~~ my skill and ability, in the survey
retracement [illegible]
the Guide Meridian through T.2 North between Ranges [illegible]
West of the Salt Lake Base and Meridian Utah

Lionel J. Stookey — Moundman
Moundman

Subscribed and sworn to before me this 01
day of June, 1906

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

We, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners
and other duties, according to instructions given us, to the best of our skill and ability, in the survey

Axmen
Axmen

Subscribed and sworn to before me this
day of 190

SEAL

I, Lincoln A. Stookey, do solemnly swear that I will well and truly
perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the
retracement and
survey of the Guide Meridian through T.2 North between Rs 8 and 9 [illegible]
of the Salt Lake Base and Meridian Utah.

Lincoln A. Stookey — Flagman

Subscribed and sworn to before me this 01
day of June, 1906

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

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Survey commenced June 21, 1906, and executed with a W. & L.E.Gurley light mountain transit, for description of which see book "A".

The old established cor.of secs.13,18,19, and 24, being situated on a steep mountain side, a Polaris observation at that point would be impossible. I therefore proceed to the cor.of secs.19,24,25, and 30, which is a limestone 5x14x10 ins.above ground, firmly set and marked and witnessed as described by the surveyor general.

I examine the adjustments of the transit and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during a.m.and p.m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

At the cor.of secs.19,24,25 and 30, as above described, lat.40° 53'N., long. 112° 49'W., I set off 40° 53'N. on lat.arc; 23° 28' N.on the decl.arc; and at 3 h. 30 m.p.m.l.m.t.determine with the solar a meridian, and mark a point thereof on a peg firmly set in the ground 6.18 chs.N.of the cor,, a point 5.00 chs.dist. not being visible.

June 21, 1906.

June 22: At 1 h.31 m.a.m.l.m.t.I observe Polaris at eastern elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined on a peg driven in the ground 6.18 chs.N. of my station.

At 7 a.m.,l.m.t.I lay off the azimuth of Polaris 1° 35' to the west, and mark the meridian thus determined by a tack driven into the peg set June 21, on which

Retracement and Resurvey Guide Meridian, Township 2 N., Bet. Rs. 8 and 9 W.

the meridian falls 0.4 ins.east of the mark determined by the solar.

At 8 a.m.l.m.t.I set off 40° 53' on the lat.arc; 23° 28'N.on the decl.arc; and mark a point in the meridian determined with the solar by a tack driven into the peg already set 6.18 chs.N.of my station; this mark falls 0.3 ins.east of the meridian established by the Polaris observation.

The solar apparatus by p.m.and a.m.observations defines positions for meridians, respectively about 0' 21" west and 0' 16" east of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8 h.30 m. a.m. is N.17° 24'W.; the angle thus determined gives the mag.decl.17° 24'E.

From the corner already described, I retrace North, on the Guide Meridian bet.secs.19 and 24, over mountainous land, through dense sagebrush undergrowth.

3.10 Old road bears N. 45° E. and S. 45° W.

5.10 Craner Wash drains N.45° E., 50 lks.wide, 3 ft.deep.

10.00 New road from Dunstein, or Craner Spring, bears N.45° E. and S. 45° W.

19.00 Begin steep ascent, bears E. & W.

25.75 Top of ascent spur of mountain, 40 ft.above sec.cor., bears E. and W. Descend abruptly.

35.45 Foot of steep descent; wash 10 lks.wide, 1 ft.deep, drains E.

36.65 Road to Nielson No.2 mine, bears E. & W.

Difference between measurement of 40.00 chs.by two sets of chainmen is 6 lks.; position of middle point

tracement and Resurvey Guide Meridian, Township 2 N., Bet.Rs.8 and 9 W.

Chains.	
	By 1st set 39.97 chs.
	By 2d set 40.03 chs., the mean of which is
40.00	The old ¼ sec.cor., which is a quartzite stone 10x8x6 ins.above ground, somewhat broken, otherwise marked and witnessed as described by the surveyor general, This I re-establish by setting a limestone 15x8x6 ins. 10 ins.in the ground, for ¼ sec.cor., marked ¼ on W. face; raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.Pits impracticable.
41.10	Hollow, 45 ft.below top of spur, drains S.60° E. and begin steep ascent of spur of mountain.
66.00	Top of limestone ridge, 150 ft.above hollow, bears S. 45° E. and N.45° W.
	Begin descent; entering scattering cedar timber.
	Difference between 80.00 chs.by two set of chainmen is 16 lks., position of middle point
	By 1st set 80.08 chs.
	By 2d set 79.92 chs., the mean of which is
80.00	Intersect old cor.of secs.13,18,19, and 24, which is a limestone 7 x 8 x 6 ins.above ground, firmly set and marked and witnessed as described by the surveyor general, except as to bearing trees, which I re-mark and described as follows:
	A cedar 12 ins.diam.bears S.68° E. 30 lks.dist. marked T 2 N R 8 W S 19 B T
	A cedar 6 ins.dia.bears S.28° W. 20 lks.dist. marked T 2 N R 9 W S 24 B T
	I also brighten the marks on the stone and raise a mound of stone 2 ft.base, 1½ ft.high W.of cor. Pits impracticable. No other bearing trees within limits.
	Land mountainous and broken.
	Soil stony, 2d and 3d rate.
	Timber scattering cedars.
	Undergrowth sagebrush.

Retracement and Resurvey Guide Meridian, Township 2N.Bet.Rs.8 and 9 W.

Chains.	Mountainous land, or land covered with dense under-growth 80.00 chs.
	North bet.secs.13 and 18,
	Over steep descent; through scattering cedar timber, dense sage and greasewood undergrowth.
15.00	Hollow, 100 ft.below last named ridge;drains E. Ascend.
30.00	Top of ascent, bears E. & W. ; 75 ft.above hollow.
	Descend.
	Difference between measurement of 40.00 chs.by two sets of chainmen is 12 lks.; position of middle point
	By 1st set 39.94 chs.
	By 2d set 40.06 chs., the mean of which is
40.00	After diligent search I fail to find any trace of the old ¼ sec.cor.,
	Set a limestone 12x8x6 ins., 8 ins.in the ground, for re-established ¼ sec.cor., marked ¼ on W.face; and raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.Pits impracticable.
46.00	Descend abruptly; leave scattering cedars, bear E. and W.
51.00	Foot of steep descent, bears N.70° E. and S.70° W.
	Descend gently.
61.00	Ravine or wash 75 lks.wide, 3 ft.deep, drains N.45° E.
	Ascend.
72.50	Top of ascent bears N. 40° W. and S.40° E.
	Descend along east face of spur of mountain.
	Difference between measurement of 80.00 chs.by two sets of chainmen is 18 lks.; position of middle point,
	By 1st set 80.09 chs.,
	By 2d set 79.91 chs., the mean of which is

Chains.	
80.00	After diligent search I fail to find any trace of old section corner,
	Set a limestone 15x8x7 ins., 10 ins.in the ground for re-established cor.of secs.7,12,13, and 18, marked 2 notches on N. and 4 notches on S.edges; raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
	Pits impracticable.
	Land mountainous and rough.
	Soil stony, 3d rate.
	Timber scattering cedars.
	Undergrowth sagebrush and greasewood.
	Mountainous land covered with dense undergrowth 80.00 chs.
	From the cor.of secs.19,24,25, and 30, heretofore described, and from which Craner Spring bears S.47° 55'W.64.00 chs.dist., I retrace south on the Guide Meridian bet.secs.25 and 30,
	Over mountainous land, through dense sagebrush undergrowth, ascending gently.
13.00	Begin steep ascent of mountain bears E. & W.
20.00	Top of steep ascent, bears E. and W.
	Enter cedar timber.
33.00	Ascent becomes steep.
	Difference between measurement of 40.00 chs.by two sets of chainmen is 14 lks.; position of middle point
	By 1st set 39.93 chs.
	By 2d set 40.07 chs. the mean of which is
40.00	After diligent search I fail to find any trace of the old ¼ sec.cor.,
	Set a limestone 15x9x5 ins., 10 ins.in the ground for re-established ¼ sec.cor., marked ¼ on W.face; and

Retracement and Resurvey Guide Meridian Township 2 N., Bet.Rs.8 and 9 W.

Chains.	which A cedar 6 ins.diam.bears N.45° W.54 lks.dist. marked ¼ S 25 B T A cedar 6 ins.diam.bears S.45° E. 10 lks.dist. marked ¼ S 30 B T Land mountainous. Soil stony, 3d rate. Timber cedars. Undergrowth sagebrush. Mountainous land on 40.00 chs. June 22, 1906. U.S.Deputy Surveyor.
	For general description see subdivision of township No.2 N., Range No.9 West.

STANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Alonzo J. Stookey United States Deputy Surveyor, to assist in running, measuring, and arking the lines and corners described in the foregoing field notes of the retracement & re survey of the Guide through Tp. 2 North between Rs. 8 and 9 West of the Salt Lake Base and Meridian, Utah owing the respective capacities in which they acted:

David Shark Jr. Lionel J. Stookey ..... Chainmen.
Ambrose Green Allen L. Bowden ..... Chainmen.
Lionel J. Stookey ..... Moundman.
..... Moundman.
..... Axman.
..... Axman.
Lincoln A. Stookey ..... Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alonzo J. Stookey retracing & re United States Deputy Surveyor, in surveying all se parts or portions of the Guide Meridian through Tp. 2 North between Rs. 8 and 9 West of the Salt Lake Base and meridian, State of Utah, which are represented he foregoing field notes as having been surveyed by him and under his direction; and that said survey been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the ner monuments established, according to the instructions furnished by the United States Surveyor neral for Utah

David Shark Jr. Lionel J. Stookey, Chainman.
Green Allen L. Bowden, Chainman.
Stookey, Moundman.
..... Moundman.
..... Axman.
..... Axman.
A. Stookey, Flagman.

scribed and sworn to before me this 22 day of June, 1906

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alonzo J. Stookey, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward A. Anderson United States Surveyor General for Utah, bearing date of the 1st day of June, 1905, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, retraced and resurveyed, all those parts or portions of the Guide Meridian through T. 2 North between Ranges 8 and 9 West

of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been retraced and resurveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such ~~survey~~ retracement and resurvey.

Alonzo J. Stookey
United States Deputy Surveyor

Subscribed by said Alonzo J. Stookey, and sworn to before me this 29th day of March, 1907

Thomas Hull
U.S. Surveyor General
for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 20, 1907

The foregoing field notes of the ~~Survey~~ Retracement and Resurvey of the Guide Meridian, Township No. 2 North, between Ranges 8 and 9 West of the Salt Lake Base and Meridian, Utah,

executed by Alonzo J. Stookey under his contract No. 290, dated June 1, 1905, having been critically examined and the necessary corrections and explanations made, the said field notes, and the ~~re~~ retracement and resurveys they describe, are hereby approved.

Thomas Hull
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in ..... has been correctly copied from the original notes on file in this office.

United States Surveyor General

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BOOK A-334

E.

FIELD NOTES

OF THE SURVEY OF THE

GUIDE MERIDIAN

Through Township No. 2 North between Ranges 8 and 9 West.

Of the SALT LAKE BASE AND *Meridian,*

UTAH.

AS SURVEYED BY

ALONZO J. STOOKEY, *United States Deputy Surveyor,*

ler his Contract No. 290 *dated* June 1, 1905 *, 190*

vey commenced June 23, 1906. *, 190*

vey completed June 24, 1906. *, 190*

BOOK A-334

NAMES AND DUTIES OF ASSISTANTS.

David Sharpe Jr.	Chainman
Winborne Green	Chainman
Lionel J. Stokley	Chainman
Allen L. Bowden	Chainman
Lionel J. Stokley	Mounduman
Lincoln A. Stokley	Flagman

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PRELIMINARY OATHS OF ASSISTANTS.

We, David Sharp Jr, Ambrose Green, Lionel J Stookey and Allen L Bowden do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the Guide Meridian through Tps 2 North between Rs 8 and 9 West of the Salt Lake Base and Meridian, Utah.

Lionel J Stookey, David Sharp Jr, Chainmen
Allen L. Bowden, Ambrose Green, Chainmen

Subscribed and sworn to before me this 23 day of June, 1906

SEAL

Alonzo J Stookey
U.S. Deputy Surveyor

~~We~~ I, Lionel J Stookey and ..... do solemnly swear that ~~we~~ I will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of the Guide Meridian through Tps 2 North between Rs 8 and 9 West of the Salt Lake Base and Meridian, Utah.

Lionel J Stookey, Moundman
....., Moundman

Subscribed and sworn to before me this 23 day of June, 1906

SEAL

Alonzo J Stookey
U.S. Deputy Surveyor

We, ... and ..... do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey

.....

....., Axman
....., Axman

Subscribed and sworn to before me this ..... day of ....., 190

SEAL

I, Lincoln A Stookey, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the Guide Meridian through Tps 2 North between Rs 8 and 9 West of the Salt Lake Base and Meridian, Utah.

Lincoln A. Stookey, Flagman

Subscribed and sworn to before me this 23 day of June, 1906

SEAL

Alonzo J Stookey
U.S. Deputy Surveyor

6—1M

Chains	
	Survey commenced June 23, 1906, and executed with the instrument described in book "A" of this survey.
	At the cor.of secs.7,12,13, and 18 on E.bdy.of Tp,,established by me and heretofore described, at 7 h.30m. a.m.l.m.t.I set off 40° 55'N.on lat.arc; 23° 27'N.on decl.arc; and determine a meridian with the solar.
	Thence I run
	North bet.secs.7 and 12,
	Descending gently; through dense shadscale and greasewood undergrowth.
25.35	Sheep road, bears E. and W.; leave mountain, bears E. and W.; and continue over gently rolling ground .
	Difference bet.measurements of 40.00 chs.by two sets of chainmen is 14 lks.; position of middle point,
	By 1st set 40.07 chs.
	By 2d set 39.93 chs., the mean of which is
40.00	Set a limestone 15x8x5 ins., 10 ins.in the ground,for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; raise a mound of stone 2 ft. ase, $1\frac{1}{2}$ ft.high W.of cor. Pits impracticable.
42.00	Wash, 15 lks.wide, 2 ft.deep, drains N.40° E.
50.50	Road to Monarch Mine, bears N.45° W. and S.45° E.
	Difference ebetween measurements of 80.00 chs.by two sets of chainmen is 18 lks.; position of middle point
	By 1st set 80.09 chs.
	By 2d set 79.91 chs.; the mean of which is
80.00	Set a limestone 18x8x7 ins., 12 ins.in the ground for cor. of secs.1.6,7, and 12, marked 1 notch on N. and 5 notches on S.edges; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.
	Land mountainous and gently rolling.
	Soil,stony and sandy; 2d and 3d rate.
	No timber.
	Undergrowth shadscale and greasewood.

G. Guide Meridian Township 2 North, Bet.Rs.8 and 9 W.

Chains	
	Mountainous land or land covered with dense undergrowth
	80.00 chs.
	June 23: I set off 23° 27'N.on decl.arc, and at 0 h. 2m. p.m.l.m.t.observe the sun on the meridian; the resulting lat.is 40° 56'N.
	North bet.secs.1 and 6,
	Over gently rolling, sandy land, through dense greasewood and shadscale undergrowth.
19.00	Wash, 12 lks.wide, 1 ft.deep, drains N.50° E.
37.00	East end of rocky knoll, about 15.00 chs.in diam.
	Begin gentle descent.
	Difference bet. measurements of 40.00 chs.by two sets of chainmen is 12 lks.; position of middle point
	By 1st set 39.94 chs.
	By 2d set 40.06 chs., the mean of which is
40.00	Set a limestone 15x7x5 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on W.face; raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.Pits impracticable.
56.00	Leave stony ground; enter rich sandy loam.
60.00	Road from Grantsville to Oakley, Idaho, bears N.34° W. and S.34° E.
	Difference between measurements of 80.00 chs.by two sets of chainmen is 16 lks.; position of middle point
	By 1st set 80.08 chs.
	By 2d set 79.92 chs., the mean of which is
80.00	Set a limestone 18x7x7 ins., 12 ins.in the ground for cor.of Tps.2 and 3 N., Rs.8 and 9 W., marked
	3 N on NE.
	8 W on SE.
	2 N on SW., and
	9 W on NW.faces; with 6 notches on each edge;
	raise a mound of stone 2 ft.base, 1½ ft.high S.of

M . . . s 3 . et.Rs.8 and 9 W.

Chains. cor.Pits impracticable.

Land gently rolling.

Soil, sandy loam; 1st and 2d rate.

No timber.

Undergrowth greasewood and shadscale.

Land covered with dense undergrowth 80.00 chs.

June 23, 1906.

June 24: At 7 h.30 m.a.m.l.m.t.I set off 40° 53'N.on lat.arc; 23° 27'N.on decl.arc; and determine a meridian with the solar at the ¼ sec.cor.bet.secs.25 and 30 as re-established by me and heretofore described.

Thence I run

South bet.secs.25 and 30,

Ascending steep mountain; through scattering cedar timber.

24.50 Top of limestone ridge, 200 ft.above ¼ sec.cor., bears E. and W.; descend into very rough, rocky gorge.

39.00 Bottom of hollow, 300 ft.below ridge, drains E.; begin very steep, rough ascent, over almost perpendicular ledges.

Difference between measurements of 40.00 chs., by two sets of chainmen is 16 lks.; position of middle point

By 1st set 39.92 chs.

By 2d set 40.08 chs.; the mean of which is

40.00 The point for sec.cor. falls on very steep, almost perpendicular north face of ledge,

At the exact point for corner, cut a cross (X) for cor. of secs.25,30,31, and 36,, with 5 grooves on N. and 1 grooveson.S.sides; raise a mound of stone 2 ft. base, 1½ ft.high on a pinnacle S.30° E. 10 lks.dist. and 10 ft.above cor.: impossible to raise a mound in any other place. Pits impracticable.

Guide Meridian Township 2 North Bet Rg. 3 and 9 W

Chains.	
	Land mountainous.
	Soil, stony; 4th rate.
	Timber, scattering cedar.
	Mountainous land 40.00 chs.
	South, bet.secs.31 and 36,
	Ascending face of almost impassable mountain; through scattering cedar timber.
5.00	Top of limestone ridge, 250 ft.above hollow, bears E. and W.
	Descend.
12.80	Bottom of hollow or ravine, 150 ft.below top of ridge, drains E.
	Begin ascent.
21.50	Top of limestone ridge, 200 ft.above hollow, bears E. and W.; begin steep descent.
32.00	Hollow, 300 ft.below ridge, drains E. This hollow is formed by junction of two hollows; one enters from the NW. and one from the SW.
	Ascend.
35.50	Limestone pinnacle, 15 ft.high on line.
	Begin ascent along small spur, projecting N.
	Difference between measurements of 40.00 chs.by two se sets of chainmen is 12 lks.; position of middle point
	By 1st set 39.94 chs.
	By 2d set 40.06 chs.; the mean of which is
40.00	Set a limestone 15x8x5 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.Pits impracticable.
	A cedar 8 ins.diam.bears N.23° E. 35 lks.dist. marked ¼ S 31 B T
	A cedar 6 ins.diam.bears N.20° W. 30 lks.dist. marked ¼ S 36 B T

Townshi 2 North Bet.Rs.8 and 9 W.

Chains This point is on top of a small ridge, bearing N., and S.80° W.

Thence along E.face of hill or mountain.

67.00 Hollow, drains N.35° E.

Ascend along face of mountain, sloping NW.

Difference between measurements of 80.00 chs.by two sets of chainmen is 14 lks.; position of middle point

By 1st set 79.93 chs.

By 2d set, 80.07 chs., the mean of which is

80.00 Set a sandstone 15x12x8 ins., 10 ins.in the ground for cor.of Tps.1 and 2 N., Rs.8 and 9 W., marked

2 N on NE.

8 W on S E.

1 N on SW., and

9 W on NW.face, with 6 notches on each edge; and raise a mound of stone 2 ft.base, 1½ ft.high S.of cor.Pits impracticable.

Land mountainous and very rough.

Soil, stony; 3d rate.

Timber scattering cedar.

Mountainous land 80.00 chs.

June 24, 1906.

Thos. W. J. Stanley

U.S.Deputy Surveyor.

For general description see subdivisions of Tp.2 N., R.9 W.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Alonzo J Stookey, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Guide h Tp 2 North, between Rs 8 and 9 West of the alt and Meridian, Utah owing the respective capacities in which they acted:

David Sharp Jr Ambrose Green, Chainman.
Lionel J Stookey Allen L Bowden, Chainman.
Lionel J Stookey, Moundman.
, Moundman.
, Axman.
, Axman.
Stookey, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alonzo J Stookey, United States Deputy Surveyor, in surveying all ose parts or portions of the Guide Meridian through Tp 2 North, between Rs 8 and 9 West of the Salt Lake Base and meridian, State of Utah, which are represented the foregoing field notes as having been surveyed by him and under his direction; and that said survey s been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the ner monuments established, according to the instructions furnished by the United States Surveyor neral for Utah

D. Sharp Jr Ambrose Green, Chainman.
J. Stookey Allen L. Bowden, Chainman.
J. Stookey, Moundman.
, Moundman.
, Axman.
, Axman.
A. Stookey, Flagman.

scribed and sworn to before me this 24 day of June, 1906

SEAL

Alonzo J Stookey
U.S. Deputy Surveyor.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alonzo J. Stookey, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the 1st day of June, 1905, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Guide Meridian through Tp. 2 North, between Rs. 8 and 9 West of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Alonzo J. Stookey
United States Deputy Surveyor.

Subscribed by said Alonzo J. Stookey, and sworn to before me this 29th day of March, 1907

Thomas Kell
U.S. Surveyor General Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah April 20, 1907

The foregoing field notes of the survey of the Guide Meridian, through Township No. 2 North, between Ranges 8 and 9 West of the Salt Lake Base and Meridian, Utah,

executed by Alonzo J. Stookey under his contract No. 290, dated June 1, 1905, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Kell
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in ....., has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-334

F.

FIELD NOTES

OF THE SURVEY OF THE

M.M.L.
~~N.J.B.~~

NORTH SOUTH AND WEST

BOUNDARIES

OF

TOWNSHIP NO. 2 NORTH

RANGE NO. 9 WEST

Of the Salt Lake Base and *Meridian,*

Utah

AS SURVEYED BY

Alonzo J. Stookey, *United States Deputy Surveyor,*

Under his Contract No. 290, *dated* June 1, 1905., ~~189~~

Survey commenced June 24, 1906., ~~189~~

Survey completed June 28, 1906., ~~189~~

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S. [illegible] 5.79.57
[illegible] 6.00.00
[illegible] 5.79.[illegible]

NAMES AND DUTIES OF ASSISTANTS.

David Sharp, Jr.	Chainman.
Ambrose Green,	Chainman.
Lionel J.Stookey,	Moundman.
Lincoln A.Stookey,	Flagman.

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7 30	29	28	27	26	25
7 31	32	33	34	35	36
5	5	4	3	3	2

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PRELIMINARY OATHS OF ASSISTANTS.

We, David Sharp Jr. and Ambrose Green do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the N., S., and W. bdys. of T. 2 N. R. 9 W. Salt Lake Base and Meridian, Utah

David Sharp Jr., Chainman

Ambrose Green, Chainman

Subscribed and sworn to before me this 25 day of June, 1906.

SEAL

Alonzo J. Stookey
U. S. Deputy Surveyor

~~We,~~ Lionel J. Stookey and ..... do solemnly swear that ~~we~~ will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of the N., S., and W. bdys. of T. 2 N. R. 9 W. Salt Lake Base and Meridian, Utah

Lionel J. Stookey, Moundman

....., Moundman

Subscribed and sworn to before me this 25 day of June, 1906.

SEAL

Alonzo J. Stookey
U. S. Deputy Surveyor

We, ... and ..... do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey .....

....., Axman

....., Axman

Subscribed and sworn to before me this ..... day of ....., 190

SEAL

I, Lincoln C. Stookey, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in survey of the N., S., and W. bdys. of T. 2 N. R. 9 W. Salt Lake Base and Meridian, Utah.

Lincoln C. Stookey, Flagman

Subscribed and sworn to before me this 25 day of June, 1906.

SEAL

Alonzo J. Stookey
U. S. Deputy Surveyor

South Boundar T. 2 N. R. 9 W.

Survey commenced June 24, 1906, and executed with the instrument described in book "A" of this Survey.

At the cor.of Tps.1 and 2 N., Rs.8 and 9 W., established by me and heretofore described; lat.40° 51' 17" N.; long.112° 48' 41" W.

In order to test the solar apparatus by comparing the results of observations on the sun, made during a.m. and p.m.hours, with a true meridian determined by observation on Polaris, I proceed as follows:

At 3h.2m.p.m.local mean time, I set off 40° 51'N.on the lat.arc; 23° 26'N.on the decl.arc; and mark the meridian thus determined with the solar by a cross on a stone firmly set in the ground 5 chs.N.of my station.

June 24, 1905.

June 25: At 1h 20 m.a.m.l.m.t.I observe Polaris at eastern elongation, in accordance with instructions in the Manual, and mark the line thus determined by a tack driven in a wooden peg set in the ground 5 chains N.of my station.

At 7h.0 m.a.m.l.m.t.I lay off the azimuth of Polaris 1° 35'to the west, and mark the meridian thus determined by cutting a small groove in the stone set last evening, on which the meridian falls 0.3 ins.east of the mark determined by the solar.

At 8h.2m.a. m.l.m.t.I set off 40° 51' N.on lat.arc;23° 26'N.on decl.arc; and mark the true meridian determined with the solar by a cross on the stone already set 5 chs.N.of my station; this mark falls 0.4 ins. east of the meridian established by the Polaris observation.

The solar apparatus by p.m.and a.m.observations defines positions for meridian about 21" east and 16 " west

Chains. of the meridian established by the Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 8h.30m.a.m. is N.17° 21'W.; the angle thus determined gives the mag. decl.17° 21'E.

From the Tp.cor.above described, I run

West bet.secs.1 and 36,

Descend along face of mountain; through scattering cedar timber.

12.70 Bottom of hollow, 700 ft.below Tp.cor., drains N.40° E.

Ascend.

36.00 Top of ascent, 125 ft.above hollow, bears N.60° E. and S.60° W.

Descend gently into hollow.

40.00 Set a limestone 15x8x6 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on N.face; and raise a mound of stone 2 ft. base, 1½ ft.high N.of cor.

Pits impracticable.

A cedar 8 ins.dia.bears S.45° W. 15 lks.dist. marked ¼ S 1 B T

A cedar 12 ins.dia.bears N.65° E. 34 lks.dist. marked ¼ S 36 B T

47.00 Bottom of hollow, 50 ft.below ridge, drains N.60° E.

Ascend.

57.00 Top of range of mountains, divide between Lake Side and Puddle Valley, 2000 ft.high, bears N.11° W. and S. 11° E. Begin very steep rough descent of mountain.

80.00 This cor.falls on stationary limestone ledge,

Set a limestone 14x6x6 ins.in mound of stone for cor. of secs.1,2.35, and 36, marked with 5 notches on W. and 1 notch on E.edge; and raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.Pits impracticable.

A cedar 12 ins.dia.bears N.87° E. 1.00 ch.dist.

B 2 T 2 1 9 W.

marked T 2 N R 9 W S 36 B T

Chains. A cedar 12 ins.dia.bears S.25° W. 76 lks.dist.

marked T 1 N R 9 W S 2 B T

No other bearing trees within limits.

Land very rough and mountainous.

Soil, stony; 3d rate.

Timber scattering cedars.

Mountainous land 80.00 chs.

West bet.secs.2 and 35,

Down steep west face of mountain; through scattering cedar timber.

37.00 Foot of mountain bears N. and S.; enter rolling sandy land and dense sagebrush and greasewood undergrowth.

38.00 Leave scattering cedar timber, bears N. and S.

40.00 Set a limestone 18x6x5 ins., 12 ins.in the ground,for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft high N.of cor.

Pits impracticable.

80.00 Set a limestone 15x10x5 ins., 10 ins.in the ground,for cor.of secs.2,3.34, and 35, marked with 2 notches on E. and 4 notches on W.edge; dig pits 18x18x12 ins.in each sec.$5\frac{1}{2}$ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

Land mountainous and rolling.

Soil, stony, sand, and clay; 2d and 3d rate.

Timber scattering cedar.

Undergrowth sagebrush and greasewood.

Mountainous land, or land covered with dense undergrowth 80. 00 chs.

West bet.secs.3 and 34,

Over rolling sandy land; through dense greasewood and

South Boundary T. 2 N. R. 9 W.

Chains.	
	shadscale undergrowth.
26.40	Wash, 10 lks.wide; 1.ft.deep, drains S.45° W.
30.70	Wood road bears N.45° E. and S.45° W.
40.00	Set a limestone 15x6x6 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on N.face; dig pits 18x18x12 ins.E. and W.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.
57.30	Wood road bears N. and S.
70.00	Sheep road bears N.20° W. and S.20° E.
80.00	Set a limestone 15x7x6 ins., 10 ins.in the ground for cor.of secs.3.4.33, and 34, marked with 3 notches on E. and W.edges; dig pits 18x18x12 ins.in each sec. 5½ ft.dist.; and raise a mound of earth 4 ft. base, 2 ft.high W.of cor.
	Land rolling.
	Soil,sandy; 2d rate.
	No timber.
	Undergrowth greasewood and shadscale.
	Land covered with dense undergrowth 80.00 chs.

West bet.secs.4 and 33,

over rolling sandy land;through dense greasewood undergrowth.

40.00	Set a limestone 15x7x6 ins., 10 ins.in the ground, for ¼ sec.cor., marked ¼ on N.face; dig pits 18x18x12 ins. E. and W.of stone, 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.
80.00	Set a limestone 18x10x8 ins., 12 ins.in the ground,for cor.of secs.4,5.32, and 33, marked with 4 notches on E. and 2 notches on W.edges; dig pits 18x18x12 ins. in each sec.5½ ft.dist.; and raise a mound of earth 4 ft. base, 2 ft.high W.of cor.
	Land, rolling.
	Soil, sandy; 2d and 3d rate.

South Boundar T. 2 N. R. 9 W.

Chains. No timber. Undergrowth, greasewood.

Land covered with dense undergrowth 80.00 chs.

June 25: At this cor. I set off 23°25'N. on decl. arc; and at 0 h. 02m. p.m. l.m.t. Observe the sun on the meridian; the resulting lat. is 40° 51'N.

West bet. secs. 5 and 32,

Over rolling sandy land; through dense greasewood undergrowth.

40.00 Set a limestone 15x8x7 ins., 10 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; dig pits 18x18x12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.

47.56 Road bears N. and S., from Grantsville to Oakley, Idaho.

Leave rolling sandy land; enter clay land; and begin gentle ascent.

78.70 Foot of knoll or small mountain, bears N. and S. and begin ascent.

80.00 Set a limestone 15x7x6 ins., 10 ins. in the ground, for cor. of secs. 5, 6, 31, and 32, marked with 5 notches on E. and 1 notch on W. edge; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. Pits impracticable.

Land, rolling.

Soil, sand, gravel, and clay; 2d and 3d rate.

No timber.

Undergrowth greasewood

Land covered with dense undergrowth 80.00 chs.

West bet. secs. 6 and 31,

Ascending over small mountain; through dense shadscale undergrowth.

26.00 Top of mountain, 400 ft. high, bears N. and S.

South Boundary T. 2 N. R. 9 W.

Chains.	
	Descend.
40.00	Set a sandstone 15x7x6 ins., 10 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor. Pits impracticable.
60.00	Foot of mountain bears N. and S.
	Descend gently over rolling ground.
79.30	Sheep road, bears N.10° E. and S.10° W.
79.37	Set a limestone 18x6x6 ins., 12 ins.in the ground for cor. of Tps.1 and 2 N., R s.9 and 10 W., marked 2 N on NE. 9 W on SE. 1 N on SW., and 10 W on NW.face; with 6 notches on each edge, and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high S.of cor.Pits impracticable.
	Land, mountainous and rolling.
	Soil, stony and gravel; 3d rate.
	No timber.
	Undergrowth shadscale.
	Land mountainous or covered with dense undergrowth 79.37 chs.
	June 25, 1906.

For general description see notes of subdivision of this township.

West Boundary T. 2 N., R. 9 W .

Chain .

June 26: At 7 h. 02 m.a.m.l.m.t.I set off 40° 51'N.on lat.arc; 23° 24'N.on the decl.arc and determine a meridian with the solar at the cor.of Tps.1 and 2. N, Rs.9 and 10 W. Thence I run

North bet.secs.31 and 36,

Over gently rolling land; through dense shadscale undergrowth.

40.00 Set a limestone 15x10x10 ins., 10 ins.in the ground, for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x 12 ins.N. and S.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.

80.00 Set a limestone 18x10x10 ins., 12 ins.in the ground for cor.of secs.25,30,31, and 36, marked with 1 notch on S. and 5 notches on N.edge; dig pits 18x18x12 ins. in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

Land, gently rolling.

Soil, sand, clay, and gravel;2d and 3d rate.

No timber.

Shadscale undergrowth.

Land covered with dense undergrowth 80.00 chs.

North bet.secs. 25 and 30,

Over gently rolling land; through dense shadscale undergrowth.

40.00 Set a limestone 15x10x10 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x12 ins.N. and S.off stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.

80. 0 Set a limestone 18x10x10 ins., 12 ins.in the ground, for cor.of secs.19,24.25, and 30, marked with 2 notches on S. and 4 notches on N.edge; dig pits 18x 18x12 ins.in each sec.5½ ft.dist.; and raise a mound

Chains.	
	of earth 4 ft.base, 2 ft.high W.of cor. Land, gently rolling. Soil, sand and clay; 3d rate. No timber. Undergrowth, shadscale. Land covered with dense undergrowth 80.00 chs.
	North bet.secs.19 and 24, Over level sandy land; through dense shadscale undergrowth.
40.00	Set a limestone 15x8x5 ins., 10 ins.in the ground,for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; dig pits 18x18x12 ins.N. and S.of stone 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft.high W.of cor.
73.24	Sheep road bears N.75° W. and S.75° E.
80.00	Set a limestone 15x8x5 ins., 10 ins.in the ground for cor.of secs.13,18,19, and 24, marked with 3 notches on N. and S.edges; dig pits 18x18x12 ins.in each sec. $5\frac{1}{2}$ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.
	Land, almost level. Soil, sandy; 2d rate. No timber. Land covered with dense undergrowth 80.00 chs. June 26: At this cor.I set off 23° 23' N.on decl.arc; and at 0 h.02 m.p.m.l.m.t.observe the sun on the meridian; the resulting lat.is 40° 54'N.
	North bet.secs.13 and 18, Over level land; through dense shadscale undergrowth.
40.00	Set a limestone 15x8x6 ins., 10 ins.in the gr und for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; dig pits 18x18x12 ins. N. and S.of stone 3 ft.dist.; and raise a mound of

West Boundary T. 2 N., R. 9 W.

Chains. earth 3½ ft.base, 1½ ft.high W.of cor.

80.00 Set a limestone 15x8x6 ins., 10 ins.in the ground, for cor.of secs.7,12,13, and 18, marked with 4 notche on S. and 2 notches on N.edges; dig pits 18x18x12 ins in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

Land level.

Soil, sandy 2d rate.

No timber.

Undergrowth shadscale.

Land covered with dense undergrowth 80.00 chs.

North bet.secs.7 and 12,

Over level land; through dense shadscale undergrowth.

20.08 Road bears N.30° W. and S.30° E. Grantsville to Oakley, Idaho.

40.00 Set a limestone 15x7x6 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x12 ins. N. and S.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.

80.00 Set a limestone 15x8x5 ins., 10 ins.in the ground,for cor.of secs.1,6,7, and 12, marked with 5 notches on S. and 1 notch on N.edges; dig pits 18x18x12 ins.in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

Land, level.

Soil sand, and clay; 2d and 3d rate.

No timber.

Undergrowth shadscale.

Land covered with dense undergrowth 80.00 chs.

North bet.secs.1 and 6,

Over level land; through dense shadscale undergrowth.

West Boundary T. 2 N., R. 9 W.

Chains.	
40.00	Set limestone 15x8x5 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x12 ins. N. and S.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.
80.00	Set a limestone 18x6x6 ins., 12 ins.in the ground for cor.of Tps.2 and 3 N., Rs.9 and 10 W., marked 3 N on NE. 9 W on SE. 2 N on SW., and 10 W on NW.faces; with 6 notches on each edge; dig pits 24x24x12 ins.on each line, N.E., and W.4 ft., and S.of stone 8 ft.dist.; and raise a mound of earth 5 ft.base, 2½ ft.high S.of cor.

Land, level.

Soil, sand and clay; 2d and 3d rate.

No timber.

Undergrowth shadscale.

Land covered with dense undergrowth 80.00 chs.

June 26, 1906.

For general description see notes of subdivision of this township.

North Boundar T. 2 N. R. 9 W.

June 27:

Chains. At 8h.03m.a.m.l.m.t.I set off 40° 56'N.on the lat. arc; 23° 22'N.on the decl.arc; and determine a meridian with the solar at the cor.of Tps.2 and 3 N., Rs.8 and 9 W., as established by myself and heretofore described.

Thence I run

West on a random line along the N.bdy.of T.2 N., R. 9 W., setting temp.¼ sec.and sec.cors. at intervals of 40.00 chs.; and at 479.14 chs.intersect the range line 1.25 chs.S.of the cor.of Tps.2 and 3 N., Rs.9 and 10 W., as established by myself and heretofore described. The falling answers to a correction of 0° 09' or 21 lks.N.per mile, counting from the NE.cor. of the Tp.

June 27, 1906.

June 28: At 8h 03ma.m.l.m.t.I set off 40° 56'N.on lat. arc; 23° 20'N.on the decl.arc; and determine a meridian with the solar at the cor.of Tps.2 and 3 N., Rs.9 and 10 W. Thence I run

S.89° 51'E.bet.secs.6 and 31,

Over level land; through dense shadscale undergrowth.

39.14 Set a limestone 15x10x5 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on N.face; dig pits 18x18x12 ins. E. and W.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.

79.14 Set a limestone 15x10x5 ins., 10 ins.in the ground, for cor.of secs.5,6,31, and 32, marked with 1 notch on W. and 5 notches on E.edges; dig pits 18x18x12 ins.in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

Land level.

Soil sandy; 1st and 2d rate.

No timber.

North Boundary T. 2 N. R. 9 W.

Chains.

Undergrowth shadscale.

Land covered with dense undergrowth 79.14 chs.

S.89° 51'E.bet.secs.5 and 32,

Over level land; through dense shadscale undergrowth.

40.00 Set a limestone 15x7x5 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on N.face; dig pits 18x18x12 ins.E. and W.of stone, 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.

80.00 Set a limestone 15x7x6 ins., 10 ins.in the ground for cor.of secs.4,5,32, and 33, marked with 2 notches on W. and 4 notches on E.edges; dig pits 18x18x12 ins.in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

Land, level.

Soil, sandy; 1st and 2d rate.

No timber.

Undergrowth shadscale.

Land covered with dense undergrowth 80.00 chs.

S.89° 51'E.bet.secs.4 and 33,

Over gently rolling land; up gentle ascent; through dense shadscale and greasewood undergrowth.

22.40 Sheep road bears N. 35° W. and S.35° E.

40.00 Set a limestone 15x7x5 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on N.face; dig pits 18x18x12 ins. E. and W.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.

80.00 Set a limestone 15x8x6 ins., 10 ins.in the ground for cor.of secs.3,4,33, and 34, marked with 3 notches on E. and W.edges; dig pits 18 x18x12 ins.in each sec. 5½ ft.dist.; and raise a mound of earth 4 ft. base, 2 ft.high W.of cor.

R. 9 W.

Chains. Land gently rolling.

Soil, sandy, 3d rate.

No timber.

Undergrowth shadscale and greasewood.

Land covered with dense undergrowth 80.00 chs.

June 28: At this cor. I set off 23° 19'N. on decl. arc; and at 0 h. 3 m. p.m. l.m.t. observe the sun on the meridian; the resulting lat. is 40° 56'N.

S. 89° 51'E. bet. secs. 3 and 34

Over rolling bench land; through dense shadscale and greasewood undergrowth.

2.66 Road from Wrathall's Pass, bears N. 30° E. and S. 30° W.; and from this point said pass bears N. 30° E. about 40.00 chs. dist.

6.50 Foot of mountain, bears N. and S.; begin ascent.

22.25 Ravine drains N. 43° W.; and continue ascent; entering very scattering cedar timber.

40.00 Set a limestone 15x8x7 ins., 10 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.

Pits impracticable.

48.00 Top of ascent, 300 ft. above foot of mountain, bears N. and S. Descend gently along face of mountain.

56.25 Hollow, 100 ft. below ridge, drains N. 40° W. Ascend.

73.30 Top of mountain, divide between Lake Side and Puddle Valley, 700 ft. high, bears N. 50° W. and S. 50° E.

80.00 Set a limestone 15x8x6 ins., 10 ins. in the ground for cor. of secs. 2, 3, 34, and 35, marked with 4 notches on W. and 2 notches on E. edges; raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.

Pits impracticable.

Land mountainous and rolling.

Soil, stony; 3d rate.

North Bdy of T. 2 N., R. 9 W.

Chains.	
	No timber.
	Undergrowth shadscale and greasewood.
	Mountainous land, or land covered with dense undergrowth 80.00 chs.
	S.89° 51'E.bet.secs.2 and 35,
	Over rolling mountainous land; through scattering cedar timber.
10.00	Leave scattering cedar timber; bears N. and S., and continue descent of mountain along S.side of hollow, among numerous large quartzite boulders.
40.00	Set a limestone 18x8x6 ins., 12 ins.in the ground for ¼ sec.cor., marked ¼ on N.face; and raise a mound of stone, 2 ft.base, 1½ ft.high N.of cor.
80.00	Set a limestone 15x8x7 ins., 10 ins.in the ground for cor.of secs.1,2,35, and 36, marked with 5 notches on W. and 1 notch on E.edges; and raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil, stony; 3d rate.
	Timber few scattering cedar.
	Mountainous land 80.00 chs.
	S.89° 51'E.bet.secs.1 and 36,
	Over rolling,broken, mountainous land.
17.00	Foot of mountain, bears N. and S.; enter dense greasewood and shadscale undergrowth.
18.64	Sheep road bears N.18° W. and S.18° E.
31.75	Sheep road bears N. 15° E. and S.15° W.
40.00	Set a limestone 15x8x6 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on N.face; dig pits 18x18x12

Chains. ins.E. and W.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.

57.65 Wash, 10 lks.wide, 1 ft.deep, drains N.70° E.

66.65 Road from Grantsville to Oakley, Idaho, bears N. 35° W. and S.35° E.

80.00 The cor.of Tps.2 and 3 N., Rs.8 and 9 W.

Land, mountainous and gently rolling.

Soil, stony and sandy; 2d and 3d rate.

No timber.

Undergrowth greasewood and shadscale.

Mountainous land, or land covered with dense undergrowth 80.00 chs.

June 28, 1906.

Boundaries of T. 2 N., R. 9 W.

Latitudes, Departures, and Closing Errors.

Line	esignated.	True Bearing	Dist. chs.	Latitudes N. chs.	Latitudes S. chs.	Departures. E. chs.	Departures. W. chs
South Boundary		West	479.37	.....	.....	.....	479.37
West	oundary	North	480.00	480.00	.....	.....	.....
North Boundary		S.89° 51'E.	479.14	.....	1.25	479.14	.....
Guide Meridian,		South	480.00	.....	480.00	.....	.....
Convergency						0.63	
Totals				480.00	481.25	479.77	479.37
					480.00	479.37	
Error in lat.and dep.					1.25	0.40	

For general description see notes of subdivision of this township.

Alonzo J. Stookey

U.S.Deputy Surveyor.

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PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Alonzo J. Stookey, United States Deputy Surveyor, to assist in running, measuring, and arking the lines and corners described in the foregoing field notes of the survey of the N. S. and W. bdys. T. 2 N. R. 9 W. Salt Lake Base and Meridian, owing the respective capacities in which they acted:

David Sharp Jr., *Chainman.*
Ambrose Green, *Chainman.*
Lionel J. Stookey, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
Lincoln A. Stookey, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alonzo J. Stookey, United States Deputy Surveyor, in surveying all se parts or portions of the N. S. and W. bdys. T. 2 N. R. 9 W. of the Salt Le Base and Meridian, State of Utah, which are represented he foregoing field notes as having been surveyed by him and under his direction; and that said survey been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the er monuments established, according to the instructions furnished by the United States Surveyor neral for Utah.

David Sharp Jr., *Chainman.*
Ambrose Green, *Chainman.*
Lionel J. Stookey, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
Lincoln A. Stookey, *Flagman.*

scribed and sworn to before me this 28 day of June, 1906.

SEAL

Alonzo J. Stookey
U. S. Deputy Surveyor.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alonzo J. Stookey, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward Ward United States Surveyor General for Utah, bearing date of the 1" day of June, 1905, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the N. S. and W. boys of T. 2 N. R. 9 W. of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Alonzo J. Stookey
United States Deputy Surveyor

Subscribed by said Alonzo J. Stookey and sworn to before me this 29th day of March, 1907

Thomas Hull
U.S. Surveyor General for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 20, 1907

The foregoing field notes of the survey of the South, West and North Boundaries of Township No. 2 North, Range No. 9 West of the Salt Lake Base and Meridian, Utah,

executed by Alonzo J. Stookey, under his contract No. 290, dated June 1, 1905, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in ..... has been correctly copied from the original notes on file in this office.

United States Surveyor General

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BOOK A-334

G.

FIELD NOTES

OF THE SURVEY OF THE

M.M.L.
H.J.B.

SUBDIVISION

OF

TOWNSHIP NO. 2 NORTH,

RANGE NO. 9 WEST,

Of the SALT LAKE BASE AND *Meridian,*

UTAH

AS SURVEYED BY

Alonzo J. Stookey, *United States Deputy Surveyor,*

nder his Contract No. 290, *dated* June 1, *1905.*

urvey commenced June 29, *1906*

urvey completed July 10, *1906.*

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Angle 59-75.30

BOOK A-334

NAMES AND DUTIES OF ASSISTANTS.

David Sharp, Jr.	Chainman.
Ambrose Green,	Chainman.
Lionel J.Stookey,	Moundman.
Lincoln A.Stookey,	Flagman.

Volume
#
R0334

BOOK A-334

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Meanders Page.....

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PRELIMINARY OATHS OF ASSISTANTS.

We, David Sharp Jr and Ambrose Green do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the subdivisions of T. 2 N. R. 9 W. of the Salt Lake Base and Meridian, Utah.

David Sharp Jr, Chainman

Ambrose Green, Chainman

Subscribed and sworn to before me this 29 day of June, 1906

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

We, Lionel J. Stookey and

do solemnly swear that ~~we~~ I will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of the subdivisions of T. 2 N. R. 9 W. Salt Lake Base and Meridian, Ut

Lionel J. Stookey, Moundman

, Moundman

Subscribed and sworn to before me this 29 day of June, 1906.

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor.

We, and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey

, Axman

, Axman

Subscribed and sworn to before me this day of , 190

SEAL

I, Lincoln A. Stookey, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the subdivisions of T. 2 N. R. 9 W. Salt Lake Base and Meridian.

Lincoln A. Stookey, Flagman

Subscribed and sworn to before me this 29 day of June, 1906.

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

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Subdivision of T. 2 N., R. 9 W.

Chains	
	Survey commenced June 29, 1906, for description of transit etc. see book "A".
	At 8h.03 m.a.m.l.m.t. I set off 40° 51'N.on the lat.arc 23° 17'N.on decl.arc; and determine a meridian with the solar at the cor.of secs.1,2,35, and 36 on the S.bdy.of the Tp., as established by myself and heretofore described.
	This cor.being situated on a steep mountain side, a Polaris observation was impossible.
	Thence I run
	N.0°01'W.bet.secs.35 and 76,
	Over very rough W.face of mountain; through scattering cedar timber.
40.00m	Set a limestone 15x6x6 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; and raise a mound of stone 2 ft.base, 1½ ft.high W.of cor. Pits impracticable.
55.70	Trail from Puddle Valley to Craner Spring, bears N.45° E. and S.45° W.
56.70	Hollow, drains S.45° W.; ascend.
66.90	Pass, head of Craner Canon, bears E. 4 chs.dist. This pass has an elevation of about 1000 ft.above the bench below.
68.40	Top of limestone ridge, divide bet.Lake Side and Puddle Valley 1200 ft.high, bears N.55° W. and S. 55° E.; descend along E.face of mountain.
76.70	Hollow, 300 ft.below top of divide, drains N.70° E. Ascend.
80.00	Set a limestone 18x10x10 ins., in mound of stone for cor.of secs.25,26,35, and 36, marked with 1 notch on S. and E.edges; raise a mound of stone 2 ft.base, 1½ ft.high W.of cor. Impossible to set it in the ground. Pits impracticable.
	Land very rough and mountainous.

Chains	
	Soil, stony; 4th rate.
	Timber scattering cedars.
	Mountainous land 80.00 chs.
	East on a random line bet.secs.25 and 36,
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.96	Intersect E.bdy.of Tp.37 lks.N.of the cor.of secs.25, 30,31, and 36, as established by me and heretofore described.
	Thence I run
	N.89° 44'W.on a true line bet.secs.25 and 36,
	Ascending over very rough mountainous land; through scattering cedar timber.
16.50	Top of ridge, 300 ft.above sec.cor., bears N.30° E. and S.30° W. Descend.
28.00	Bottom of hollow, 175 ft.below top of ridge, drains N. 12° E. Ascend.
38.25	Top of ridge, 125 ft.above hollow, bears N.10° E. and S.10° W. Descend
39.98	Set a limestone 15x7x6 ins., 10 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor.
	Pits impracticable.
47.00	Hollow, 200 ft.below top of ridge, drains N. Ascend.
55.00	Top of ascent, 180 ft.above hollow, bears E. and W. Descend.
63.00	Hollow, head of Craner canyon and trail, 75 ft.below top of ridge, bears N.45° E. and S.45° W.
	Ascend gently, along face of ridge.
75.00	Ravine or hollow, drains N.70° E. and begin steep ascent.
79.96	The cor.of secs.25,26,35, and 36.
	Land, very rough and mountainous.

Subdivision of T. 2 N., R. 9 W.

Chains. Soil, stony, 4th rate.

Timber scattering cedars.

Mountainous land 79.96 chs.

June 29: At this cor.I set off 23° 16'N.on decl.arc; and at 0 h.03 m.p.m.l.m.t.observe the sun on the meridian; the resulting lat.is 40° 52'N.

N.0°01'W.bet.secs.25 and 26,

Over rough mountainous land; through scattering cedar timber.

5.00 Top of ridge, 100 ft.above hollow, bears N.80° E. and S.80° W.

10.50 Bottom of hollow, 150 ft.below top of ridge, drains N. 80° E. Ascend.

22.00 Top of ridge, 175 ft.above hollow, bears N.85° E. and S.85° W. Descend.

30.40 Bottom of deep hollow, 200 ft.below top of ridge, drains N.84° E. and begin very steep ascent.

40.00 Set a limestone 15x8x5 ins.. 10 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; and raise a mound of stone, 2 ft.base, 1½ ft.high W.of cor.

Pits impracticable.

50.00 Ascent becomes gentle.

62.50 Top of ascent, 250 ft.above hollow, bears N.70° E. and S.70° W. Begin gentle descent.

The main divide is about 12 chs.W.

64.50 Descent becomes steep along W.face of mounntain.

80.00 Set a limestone 15x8x6 ins., 10 ins.in the ground for cor.of secs.23,24,25, and 26, on steep face of mountain, marked with 2 notches on S. and 1 notch on E. edge; raise a mound of stone 2 ft.base, 1½ ft. high W.of cor.Pits impracticable.

Land, very rough and mountainous.

L. Subdivision of T. 2 N R. 9 W.

Chains	
	Soil, stony 3d and 4th rate.
	Timber scattering cedar, and a few pines.
	Mountainous land 80.00 chs.
	S.89° 44'E.on random line bet.secs.24 and 25,
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.95	Intersect E.bdy.of Tp.9 lks.S.of the cor.of secs.19,24, 25 and 30, as established by myself and heretofore described.
	Thence I run
	N.89° 48'W.on a true line bet.secs.24 and 25,
	Over rolling, mountainous land.
3.00	Old road, bears N.45° E. and S.45° W.
4.50	Craner Wash, 50 lks.wide, 3 ft.deep, drains N.40° E.
	Begin ascent.
5.50	New road bears N. and S. To Craner Spring.
9.50	Foot of mountain bears N.40° E. and S.40° W.; enter scattering cedar timber and ascend.
39.97½	After diligent search I fail to find any trace of old $\frac{1}{4}$ sec.cor.,
	Set a limestone 15x7x6 ins., 10 ins.in the ground,for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raise a mound of stone 2 ft.base, 1½ ft.high N.of cor.
	Pits impracticable.
62.50	Top of ascent, 600 ft.above sec.cor., bears N.40° E. and S.40° W.;
	Descend.
68.00	Bottom of hollow, 50 ft.below top of ridge, drains N.
	Ascend.
73.00	Top of ridge,75 ft.above hollow, bears N.15° E. and S. 15° W.
79.95	The cor.of secs.23,24,25 and 26.
	Land mountainous and rough.

Subdivision of T. 3 N., R. 9 W.

Chains. Soil, stony; 4th rate.

Timber, scattering cedar.

Mountainous land 79.95 chs.

June 29, 1906.

June 30: At 8 h.03 m.a.m.I.m.t.I set off 23° 14'N.on decl.arc; 40° 53'N.on int.arc, and determine a meridian with the solar at the cor.of secs. 23,24,25, and 26. Thence I run

N.0°01'W.bet.secs. 23 and 24,

Over mountainous land; down steep W.face of mountain; through scattering cedar timber.

30.00 Ridge, 200 ft.below last named ridge, bears N.45° W. and S.45° E.

Descend abruptly.

40.00 Set a limestone 15x8x6 ins., 10 ins.in the ground, for ¼ sec.cor., marked ¼ on W.face; raise a mound of stone 3 ft.base, 1½ ft.high W.of cor.Pits impracticable.

44.00 Bottom of hollow, 175 ft.below top of ridge, drains N. 45° E.; ascend.

60.00 Top of ridge, 70 ft.above hollow, bears N.85° E. and S.85° W.

Descend.

67.70 From this point the shaft house of the Nielson No.3 Mine bears S.64° 13'E.; and the cabin is about 1.50 chs.farther on in the same direction.

71.00 Hollow, 50 ft.below ridge, drains S.45° E. and joins with last named hollow at the Nielson No.3 Mine, heads about 8.00 chs.NW.of here.

79.05 From this point the shaft house of the Nielson No.2 Mine bears S.36° 35'E.

80.00 Top of ridge, 90 ft.above hollow, 1.00 ch.E.of saddle,

Subdivision of T. 2 N., R. 9 W.

Chains.	
	bearing E. and W.; and on N.side of saddle heads a large hollow, draining N.,
	Set a limestone 15x8x6 ins., 10 ins.in the ground for cor.of secs.13,14,23, and 24, marked with 3 notches on the S. and 1 notch on the E.edges; raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
	Pits impracticable. From which :
	A cedar 18 ins.dia.bears N.43° 45'E.70 lks.dist. marked T 2 N R 9 W S 13 B T
	A cedar 5 ins.dia.bears N.65° 45'W. 1.0 chs.dist. marked T 2 N R 9 W S 14 B T
	No other bearing trees within limits.
	Land mountainous.
	Soil, stony; 4th rate.
	Timber scattering cedar.
	Mountainous land 80.00 chs.
	S.89° 48'E.on a random line bet.secs .13 and 24,
40.00	Set temp.¼ sec.cor.
80.00	Intersect E.bdy.of Tp.9 lks.S.of cor.of secs.13,18,19, and 24, re-established by myself and heretofore described.
	Thence I run
	N.89° 52'W.on true line bet.secs.13 and 24,
	Over rough mountainous land; descending through scattering cedar timber.
19.00	Bottom of hollow, 40 ft.below sec.cor., drains N.65° W.
	Begin abrupt ascent.
34.00	Top of ridge, 110 ft.above hollow, bears N.55° W. and S.55° E.
	Continue over rough, broken country.
40.00	Set a limestone 15x8x7 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on N.face; raise a mound of stone 2 ft.base, 1½ ft.high N.of cor.
	Pits impracticable.

Subdivision of T. 2 N. R. 9 W.

Chains.

80.00 The cor.of secs.13,14,23, and 24.

Land, mountainous.

Soil, stony; 4th rate.

Timber, scattering cedar.

Mountainous land, 80.00 chs.

June 30: At this cor.I set off 23° 13'N.on decl.arc; and atn0 h. 3 m.p.m.l.m.t.observe the sun on the meridian; the resulting lat.is 40° 54'N.

N. 0°01'W.bet.secs.13 and 14,

Over steep, rough west face of mountain; through scattering cedar timber.

18.00 Top of ridge, bears N.15° W. and S.15° E.; descend along E.face of ridge.

36.50 Hollow, 180 ft.below top of ridge, drains N.45° E.

Ascend.

40.00 Set a limestone 15x10x7 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.

Pits impracticable.

A cedar 14 ins.dia.bears S.80° W. 30 lks.dist. marked ¼ S 14 B T

A cedar 12 ins.dia.bears E.75 lks.dist. marked ¼ S 13 B T

43.00 Top of ridge, 130 ft.above hollow, bears E. and W.

Descend.

47.30 Hollow, 70 ft.below top of ridge, drains S.45° W.; joins with the last about 4 chs.SE.

Begin rough ascent.

63.00 Top of ascent, 120 ft.above hollow, bears N.15° W. an S.15° E. Continue along E.face of mountain.

80.00 Set a limestone 15x8x6 ins., 10 ins.in the ground,for cor.of secs .11,12,13, and 14, marked with 4 notches

Subdivision of T. 2 N., R. 9 W.

Chains.	
	on S. and 2 notches on E.edge; raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
	A cedar 12 ins.in dia.bears S.50° 45'W. 1.60 chs. dist., marked T 2 N R 9 W S 14 B T
	A cedar 6 ins.dia.bears S.20°30'E. 1.25 chs.dist. marked T 2 N R 9 W S 13 B T
	No other bearing trees within limits.
	Corner on top of ridge bears SW. and NE.
	Land mountainous.
	Soil stony and sandy 3d and 4th rate.
	Timber scattering cedar.
	Mountainous land 80.00 chs.
	S.89° 52'E.on a random line bet.secs.12 and 13,
40.00	Set temp.¼ sec.cor.
79.94	Intersect E.bdy.of Tp.2 lks.N.of cor.of secs.7,12,13, and 18, as established by myself and heretofore described. Thence I run
	N.89° 51'W.on a true line bet.secs.12 and 13,
	Over broken mountainous land.
8.40	Top of low ridge, 125 ft.above cor., bears N. 15° E. and S.15° W.
34.57	Bottom of large hollow or wash, 1 ch.wide, 6 ft.deep, drains N.45° E; enter scattering cedar timber and ascend.
39.97	Set a limestone 15x7x5 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on N.face; and raise a mound of stone 2 ft.base, 1½ ft.high N.of cor.
	Pits impracticable.
	Good indications for water 1 ch.NE.of cor., in gulch.
79.94	The cor.of secs.7,12,13, and 18.
	Land mountainous.
	Soil stony and sandy; 3d and 4th rate.

Chains	
	Timber scattering cedar on W.half mile.
	Mountainous land 79.94 chs..
	June 30, 1906.
	July 1: At 8 h.03 m.a.m.l.m.t.I set off 40°55'N.on lat.arc; 23° 09'N.on decl.arc; and determine a meridian with the solar at the cor.of secs.11,12,13, and 14
	Thence I run
	N.0°01'W.bet.secs.11 and 12,
	Over mountainlus land; Along W.face of mountain; through scattering cedar timber.
25.00	A high limestone pinnacle on top of mountain, bears E. about 10 chs.dist.
40.00	Set a limestone 15x8x6 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on W.face; and raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
	Pits impracticable.
48.00	Bottom of hollow, 200 ft.below sec.cor., drains E.
	This ho low is formed by three hollows that converge about 3 chs.W.of here.
66.50	Top of steep ascent, 175 ft.above hollow, bears N.45° W. and S.45° E.
	A high rocky peak bears N. 45° W. about 4 chs. dist.
	Descend along E.face of mountain.
80.00	Set a limestone 15x8x6 ins., 10 ins.in the ground for cor.of secs.1,2,11, and 12, marked with 5 notches on S. and 1 notch on E.edge; and raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
	Pits impracticable.
	Land, mountainous.
	Soil, stony; 4th rate.
	Timber, scattering cedar.
	Mountainous land 80.00 chs.

Subdivision of T. 2 N., R. 9 W.

Chains.	
	S.89° 51'E.on a random line bet.secs.1 and 12,
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.96	Intersect E.bdy.of Tp.4 lks.N.of cor.of secs.1,6,7, and 12, as established by myself and heretofore described.
	Thence I run
	N.89° 49'W.on a true line bet.secs.1 and 12,
	Over rolling land; through dense greasewood and shadscale undergrowth.
14.30	Wash, drains N.30° E.
21.00	Road, bears N. 45° W. and S.45° E.
39.98	Set a limestone 15x7x6 ins., 10 ins.in the ground,for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor.
	Pits impracticable.
50.00	Foot of mountain, bears N.20° E. and S.20° W.
	Ascend steep mountain to cor.
79.96	The cor.of secs.1,2,11, and 12.
	Land rollling and mountainous.
	Soil, sandy and stone; 2d and 3d rate.
	No timber.
	Undergrowth shadscale and greasewood.
	Mountainous land, or land covered with dense undergrowth 79.96 chs.
	July 1: At this cor.I set off 23° 09'N.on decl.arc; and at 0 h.03 m.p.m.l.m.t.observe the sun on the meridian; the resulting lat.is 40° 56'N.

	N.0°01'W.on random line bet.secs.1 and 2,
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.93	Intersect N.bdy.of Tp.20 lks.E.of cor.of secs.1,2,35, and 36, as established by myself and heretofore described. Thence I run
	S.0°08'E.on true line bet.secs.1 and 2,
	Over broken mountainous land; ascending over ledges.

Subdivision of T. 2 N., R.9 W.

Chains.

5.00 Top of ascent 30 ft.above sec.cor., bears E. and W.

Descend.

From this point a pinnacle 200 ft.high bears W.about 3 chs.dist.; descend.

35.00 Wash, bottom of large hollow 100 ft.below top of ridge drains N.60° E.

Ascend.

35.50 Road to Monarch Mine bears N.60° E. and S.60° W.

39.93 Set a limestone 15x8x5 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.

Pits impracticable.

54.00 Ascent becomes very steep.

66.20 Top of perpendicular ledge 70 ft.high.

69.00 Flat top of point of mountain 200 ft.above hollow, extends easterly about 2 chs., where it ends in a perpendicular descent of about 50 ft.

79.93 The cor.of secs.1,2,11, and 12.

Land broken and mountainous.

Soil, stony; 3d and 4th rate.

Timber, very few scattering cedars on S.end of mile.

Mountainous land 79.93 chs.

July 1, 1906.

I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during a.m.and p.m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

At the cor.of secs.2,3,34, and 35 on the S.bdy.of The Tp., as established by myself and heretofore described; I set off 40° 51'N.on the lat.arc; 23° 09'

Chains. N.on the decl.arc; and on July 1, at 5h. 03 m.p.m.l. m. t.determine a meridian with the solar, and mark a point thereof on a wooden plug firmly set in the ground 5.00 chs.N.of the cor.

July 1, 1906.

July 2: At 0 h.52m.a.m.l.m.t.I observe Polaris at eastern elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground 5 chs.N.of my station.

At 7 a.m., l.m.t., I lay off the azimuth of Polaris 1° 35'to the west, and mark the meridian thus determined by driving a tack into the plug set July 1, on which the meridian falls 0.4 ins.east of the mark determined by the solar.

At 8h. 04 m.a.m.l.m.t.I set off 40° 51'N.on the lat.arc; 23° 06'N.on the decl.arc; and mark a point in the meridian determined with the solar, by a cross on the plug already set 5 chs.N.of my station; this mark falls 0.4 ins.east of the meridian established by Polaris observation.

The solar apparatus by p.m.and a.m.observations, defines positions for meridians, respectively about 0' 21" west and 0'21" east of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h.30 m. a.m.is 17° 21'W.; the angle thus determined gives the mag.decl.17° 21'E.

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bdivision of T. 2 N. R. 9 W.

Chains From the sec.cor.already described I run

N.0°01'W.bet.secs.34 and 35,

Over rolling sandy land; through dense shadscale and greasewood undergrowth.

29.00 Wash, 12 lks.wide, 2 ft.deep, drains S.55° W.

40.00 Set a limestone 15x8x7 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on W.face; and raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.

Pits impracticable.

80.00 Set a limestone 15x8x7 ins., 10 ins.in the ground for cor.of secs. 26,27,34, and 35, marked with 1 notch on S. and 2 notches on E.edges; and raise a mound of stone, 2 ft.base, 1½ ft.high W.of cor.

Pits impracticable.

Land, gently rolling.

Soil, sand and gravel; 2d rate.

Timber very few scattering cedars.

Undergrowth shadscale and greasewood.

Land covered with dense undergrowth 80.00 chs.

East on a random line bet.secs.26 and 35,

40.00 Set temp.¼ sec.cor.

80.00 Intersect the cor.of secs.25,26,35, and 36.

Thence I run

West on a true line bet.secs.26 and 35,

Over rough mountainous land; through scattering cedar timber; ascending.

14.60 Top of mountain, divide between Lake Side and Puddle Valley, 2000 ft.high, bears N. and S.

Descend steep W.face of mountain.

40.00 Set a limestone 15x7x6 ins., 10 ins.in the ground,for ¼ sec.cor.. marked ¼ on N.face; and raise a mound of stone 2 ft.base, 1½ ft.high N.of cor.

Chains. Pits impracticable.

60.00 Foot of mountain, bears N. and S.; leave scattering cedars; enter dense shadscale undergrowth and proceed over bench land; down gentle descent.

80.00 The cor. of secs. 26, 27, 34, and 35.

Land mountainous and rolling.

Soil stony; 4th rate.

Timber scattering cedars.

Undergrowth shadscale.

Mountainous land, or land covered with dense undergrowth 80.00 chs.

N. 0°01' W. bet. secs. 26 and 27,

Over rolling stony ground; through dense shadscale undergrowth and few scattering cedars.

40.00 Set limestone 15x9x7 ins., 10 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.

Pits impracticable.

64.00 Begin ascent of mountain, over ledges, bear N. 30° W. and S. 30° E.

80.00 Top of ridge, 160 ft. above foot of mountain, bears N. 85° E. and S. 85° W.

Set a limestone 15x8x7 ins., 10 ins. in the ground, for cor. of secs. 22, 23, 26, and 27, marked with 2 notches on the S. and E. edges; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.

Pits impracticable.

Land, rolling and mountainous.

Soil, sandy and stone, 3d rate.

Timber scattering cedars.

Mountainous land or land covered with dense undergrowth 80.00 chs.

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ubdivision of T. 2 N.. R. 9 W .

Chains. East on a random line bet.secs.23 and 26,

40.00 Set temp.$\frac{1}{4}$ sec.cor.

80.00 Intersect the cor.of secs.23,24,25, and 26,

Thence I run

West on a true line bet.secs.23 and 26,

Over mountainous land; through scattering cedar timber.

5.00 Hollow, 25 ft.below sec.cor., drains N. Ascend.

6.50 Top of small ridge, 35 ft.above hollow, bears N. and S. Descend.

9.00 Bottom of hollow, 40 ft.below ridge, drains N.30° E. Ascend along steep E.face of mountain.

20.00 Top of mountain, divide between Lake Side and Puddle Valley, 2000 ft.high, bears N.10° W. and S.10° E. Begin steep descent of mountain.

40.00 Set a limestone 15x8x7 ins., 10 ins.in the ground,for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raise a mound of stone 2ft.base $1\frac{1}{2}$ ft.high N.of cor.

Pits impracticable.

48.00 Hollow, 800 ft.below top of divide, drains S.80° W. and along S.face of ridge.

74.00 Top of ridge, bears N.80° E. and S.80° W.

Descend to

80.00 The cor.of secs.22,23,26, and 27.

Land mountainous.

Soil, stony and sandy; 3d and 4th rate.

Timber scattering cedar .

Mountainous land 80.00 chs.

July 2: At this cor.I set off 23° 05'N.on decl.arc; and at 0 h.04m.p.m.l.m.t.observe the sun on the meridian; the resulting lat.is 40° 53'N.

N.0°01'W.bet.secs.22 and 23,

Over mountainous land; through scattering cedar timber; down steep rough descent.

Subdivision of T. 2 N., R. 9 W.

Chains.	
7.00	Bottom of hollow, 60 ft.below top of ridge, drains S. 55° W. and ascend.
22.25	Top of ridge, 200 ft.above hollow, bears N.20° E. and S.40° W. and along W.face of mountain.
25.00	Begin very steep descent over ledges.
27.50	Hollow, 150 ft.below top of ridge, drains S.65° W. and ascend.
40.00	Set a limestone 15x7x6 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on W.face; and raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
	Pits impracticable.
	This cor.is on steep S.face of mountain, in ravine.
50.00	Ascent becomes less steep; proceed along W.face of mountain.
60.00	Top of ridge, 300 ft.above hollow, bears N.65° E. and S.65° W.
71.60	Bottom of hollow, 120 ft.below top ofridge, drains W.
	Begin abrupt ascent.
76.00	Top of ridge, 180 ft.above hollow, bears E. and W.;
	Descend.
80.00	Set a limestone 18x6x6 ins., 12 ins.in the ground,for cor.of secs.14,15,22, and 23, marked with 3 notches on the S. and 2 notches on the E.edges; and raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
	Pits impracticable.
	Land mountainous.
	Soil, sandy and stony; 3d and 4th rate.
	Timber, scattering cedar.
	Mountainous land 80.00 chs.

	East on a random line bet.secs.14 and 23,
40.00	Set temp.¼ sec.cor.
80.03	Intersect the N. and S.line 9 lks.N.of the cor.of secs.

bd v's f T. 2 N. R. 9 W.

Chains. 13,14,23,and 24.

Thence I run

N.89° 56'W.on a true line bet.secs.14 and 23,

Over mountainous land; through scattering cedar timber.

1.50 Saddle bears 25 lks.S.

7.00 Begin steep descent.

16.35 Bottom of hollow, 100 ft.below sec.cor., drains N.40° E.

Begin steep ascent of mountain.

40.01½ Set a limestone 15x8x6 ins.,10 ins.in the ground,for ¼ sec.cor., marked ¼ on N.face; and raise a mound of stone 2 ft.base, 1½ ft.high N.of cor.

Pits impracticable.

55.00 Top of highest peak in Lake Side range, divide between Lake Side and Puddle Valley, 2200 ft.high, bears N. 30° W. and S.30° E. Begin steep descent of mountain.

80.03 The cor.of secs.14,15,22, and 23.

Land mountainous and rough.

Soil, stony; 3d and 4th rate.

Timber, scattering cedar.

Mountainous land 80.03 chs.

July 2, 1906.

July 3: At 8.h.04 m.a.m.l.m.t.I set off 40° 54'N.on lat.arc; 23° 01'N.on decl.arc; and determine a meridian with the solar at the cor.of secs.14,15,22, and 23. Thence I run

N.0°01'W.bet.secs.14 and 15,

Over mountainous land; through scattering cedar timber.

13.10 Bottom of hollow, 80 ft.below top of ridge, drains S. 60° W.

Ascend.

23.60 Top of ascent, 125 ft.above hollow, bears N.65° E. and S.65° W. and along steep W.face of mountain.

Subdivision of T. 2 N., R. 9 W.

Chains.	
	Summit about 10 chs. East.
27.70	Hollow, 50 ft. below top of ridge; drains S.65° W.
40.00	Set a limestone 15x7x5 ins., 10 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable.
51.00	Top of ascent, 90 ft. above hollow, bears E. and W.
63.15	Hollow, 125 ft. below top of ridge, drains W.
	Ascend.
79.00	Top of divide between Lake Side and Puddle Valley 1900 ft. high bears N.20° W. and S.20° E.
80.00	Set a limestone 15x8x8 ins., 10 ins. in the ground, for cor. of secs. 10, 11, 14, and 15, marked with 4 notches on S. and 2 notches on E. edges; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable.
	Land, mountainous.
	Soil, stony; 4th rate.
	Timber, scattering cedar.
	Mountainous land 80.00 chs.

S.89° 56' E. on a random line bet. secs. 11 and 14,

40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. and S. line 9 lks. S. of cor. of secs. 11, 12, 13 and 14. Thence I run
	West on a true line bet. secs. 11 and 14,
	Over mountainous land; through scattering cedar timber.
2.50	Pass or saddle bears N.45° E. and S.45° W. and along N. face of mountain.
22.00	Saddle 2 chs. S. of here, bearing E. and W.; head of large hollow, drains N.18° E.; and S. of this saddle is the head of another large hollow, draining SE.
	Gradually ascend along N. face of mountain.

Chains.

40.00 Set a limestone 15x10x5 ins., 10 ins.in the ground,for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor.

Pits impracticable.

Continue ascent of mountain.

80.00 The cor.of secs.10,11,14, and 15.

Land, mountainous.

Soil, stony; 4th rate.

Timber, scattering cedar.

Mountainous land 80.00 chs.

N.0°01'W.bet.secs.10 and 11,

Over mountainous land; through scattering cedar timber; descending.

2.50 Top of divide between Lake Side and Puddle Valley, 1700 ft.high, bears N.25° E. and S.25° W.

Continue steep descent.

12.00 Pass in divide bears E. about 3.50 chs.dist.

18.50 Hollow, 200 ft.below top of divide, drains W.

Ascend.

38.00 Divide between Lake Side and Puddle Valley 1500 ft. high, bears N.25° W. and S.25° E.

40.00 Set a limestone 15x8x7 ins., 10 ins.in the ground,for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.

Pits impracticable.

45.50 From this point the Monarch Mine bears N.57° E.

56.42 Same mine bears N.87° 30'E.

80.00 Set a limestone 15x8x6 ins., 10 ins.in the ground,for cor.of secs.2,3,10, and 11, marked with 5 notches on S. and 2 notches on E.edges; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.

Pits impracticable.

Chains.	
	A cedar 15 ins.dia.bears N.3° 30'W.95 lks.dist. marked T 2 N R 9 W S 3 B T
	A cedar 6 ins.dia.bears N.3° 30'E. 96 lks.dist. marked T 2 N R 9 W S 2 B T
	A cedar 6 ins.dia.bears S.18° 30'W. 90 lks.dist. marked T 2 N R 9 W S 10 B T
	No other bearing trees within limits.
	Land mountainous.
	Soil, stony; 3d rate.
	Timber scattering cedar.
	Mountainous land 80.00 chs.
	July 3: At this cor.I set off 22° 59'N.on decl.arc; and at 0 h.4 m.p.m.l.m.t.observe the sun on the meridian; the resulting lat.is 40° 56'N.
	East on a random line bet.secs.2 and 11,
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.94	Intersect N. and S.line, 16 lks.S.of the cor.of secs. 1,2,11, and 12. Thence I run S.89° 53'W.on a true line bet.secs.2 and 11,
	Over mountainous land; through scattering cedar timber.
5.00	Top of ascent, 50 ft.above sec.cor., bears N. and S.
	Descend.
18.00	Bottom of swale or hollow, 60 ft.below top of ridge. drains N. Ascend.
31.00	Top of ascent, 40 ft.above hollow, bears N. and S.
39.97	Set a limestone 15x8x7 ins., 10 ins.in the ground,for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor. Pits impracticable.
49.30	Hollow, 60 ft.below top of ascent, drains N.15° E.
59.50	Road to Monarch Mine, bears N.48° W. and S.48° E.
65.00	Top of low ridge, 30 ft.above hollow, bears N.2 0° E. and S.20° W.

Subdivision of T. 2 N., R. 9 W.

Chains.	
71.00	Road to Monarch Mine, bears N.45° E. and S.45° W.
78.70	Same road to Monarch Mine, bears N.15° E. and S.15° W.
79.94	The cor.of secs.2,3,10, and 11.
	Land, mountainous.
	Soil, stony; 3d and 4th rate.
	Timber, scattering cedar.
	Mountainous land 79.94 chs.

N.0°01'W.on a random line bet.secs.2 and 3,

40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.94	Intersect N.bdy.of Tp. at the cor.of secs.2,3,34, and 35. set by me, and heretofore described. Thence I run

S.0°01'E.on true line bet.secs.2 and 3,

	Over mountainous land; through scattering cedar timber.
5.00	Top of divide between Lake Side and Puddle Valley, 1300 ft.high, bears N.45° W. and S.45° E.; and proceed over sandy undulating ground.
33.50	Top of divide between Lake Side and Puddle Valley, 1300 ft.high bears E. and W.
39.94	Set a limestone 15x8x6 ins., 10 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor. Pits impracticable.
47.00	Hollow, 300 ft.below top of divide, drains S.50° E.
56.00	Top of ridge, 200 ft.above hollow, bears E. and W.
75.50	Trail bears N.60° E. and S.60° W,
78.85	Wash, 15 lks.wide, 2 ft.deep, drains N.60° E.
79.94	The cor.of secs.2,3,10, and 11.
	Land, mountainous.
	Soil, stony; 3d rate.
	Timber, scattering cedar.
	Mountainous land 79.94 chs.

July 3, 1906.

Subdivision of T. 2 N., R. 9 W.

Chains	
	July 4: At 8h.04 m.a.m.l.m.t. I set off 40° 51' N. on the lat. arc; 22° 57' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3, 4, 33, and 34, on the S. bdy. of the Tp., as established by myself and heretofore described. Thence I run
	N. 0°02' W. bet. secs. 33 and 34,
	Over rolling, sandy land; through dense shadscale and greasewood undergrowth.
36.00	Enter scattering cedar timber, bears E. and W.
40.00	Set a limestone 15x8x6 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; dig pits 18x18x12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
56.16	Sheep road, bears N. 20° W. and S. 20° E.
62.50	Same road bears N. 15° E. and S. 15° W.
80.00	Set a limestone 15x8x6 ins., 10 ins. in the ground, for cor. of secs. 27, 28, 33, and 34, marked with 1 notch on S. and 3 notches on E. edge; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
	Land, gently rolling.
	Soil, sandy; 1st rate.
	Timber, few scattering cedars.
	Undergrowth, shadscale and greasewood.
	Land covered with dense undergrowth 80.00 chs.
	East on a random line bet. secs. 27 and 34,
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect the cor. of secs. 26, 27, 34, and 35.
	Thence I run
	West on a true line bet. secs. 27 and 34,
	Over undulating ground; through scattering cedars and dense shadscale and greasewood undergrowth.
40.00	Set a limestone 15x8x7 ins., 10 ins. in the ground, for

ubdivision of T. 2 N. R. 9 W.

Chains. $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; dig pits 18x18x12 ins.E. and W.of stone 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high N.of cor.

47.00 Wash drains S.65° E. 10 lks.wide, 1 ft.deep.

79.70 Sheep road bears N.30° W. and S.30° E.

80.00 The cor.of secs.27,28,33, and 34.

Land, undulating.

Soil, stony and sandy; 2d rate.

Timber scattering cedars.

Undergrowth shadscale and greasewood.

Land covered with dense undergrowth 80.00 chs.

N.0°02'W.bet.secs. 27 and 28,

Over rolling sandy land; through dense shadscale and greasewood undergrowth and few scattering cedars.

0.80 Sheep road bears N.30° W. and S.30° E.

28.00 Leave scattering cedars, bear E. and W.

32.10 Wash drains W., 10 lks.wide, 1 ft.deep.

40.00 Set a limestone 15x8x6 ins., 10 ins.in the ground,for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; dig pits 18x18x12 ins.N. and S.of stone, 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high W.of cor.

42.70 Wash drains W., 12 lks.wide, 2 ft.deep.

60.50 Wash 10 lks.wide, 1 ft.deep, drains W.

75.20 Wash, 10 lks.wide, 2 ft.deep, drains S.36° W.

80.00 Set a limestone 15x12x6 ins., 10 ins.in the ground,for cor.of secs.21,22,27, and 28, marked with 2 notches on S. and 3 notches on E.edge; dig pits 18x18x12 ins. in each sec.$5\frac{1}{2}$ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

Land, rolling.

Soil, sandy and stony; 2d rate.

Timber scattering cedar.

Undergrowth greasewood and shadscale.

Chains. Land covered with dense undergrowth 80.00 chs.

July 4: At this cor.I set off 22° 55'N.on decl.arc; and at 0 h.4 m.p.m.l.m.t.observe the sun on the meridian; the resulting lat.is 40° 53'N.

East on a random line bet.secs.22 and 27,

40.00 Set temp.$\frac{1}{4}$ sec.cor.

80.00 Intersect N. and S.line, 11 lks.N.of cor.of secs.22,23, 26, and 27. Thence I run

N.89° 55'W.on a true line bet.secs.22 and 27,

Over mountainous land; through scattering cedar timber and dense shadscale undergrowth; descending.

19.00 Foot of mountain, 160 ft.below sec.cor.bears N.28° W. and S.28° E. and proceed over rolling ground,

35.00 Leave scattering cedar timber, bears N. and S.

40.00 Set a limestone 15x8x5 ins., 10 ins.in the ground,for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; dig pits 18x18x12 ins.E. and W .of stone, 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high N.of cor.

77.00 Wash drains S.36° W., 10 lks.wide, 2 ft.deep.

80.00 The cor.of secs.21,22,27, and 28.

Land mountainous and rolling.

Soil, stony and sandy; 3d and 4th rate.

Timber, scattering cedars.

Undergrowth shadscale.

Mountainous land, or land covered with dense undergrowth 80.00 chs.

N.0°02'W.bet.secs.21 and 22,

Over stony undulating ground; through dense shadscale undergrowth.

40.00 Set a limestone 15x8x6 ins., 10 ins.in the ground,for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W .face; dig pits 18x18x12

Subdivision of T. 2 N. R. 9 W.

Chains. ins.N. and S.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.

43.64 Wash, drains W.; 10 lks.wide, 1 ft.deep.

Enter scattering cedars bear E.and W.

52.27 Wash, 12 lks.wide, 1 ft.deep, drains W.

66.70 Wash, 10 lks.wide, 2 ft.deep, drains N.70° W.

80.00 Set a limestone 15x8x6 ins., 10 ins.in the ground for cor.of secs.15,16,21, and 22, marked

2 N on NE.

9 W on SE.face; with 3 notches on S. and E.edges; dig pits 18x18x12 ins.in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W .of cor.

Land, rolling.

Soil, sandy and stony; 3d rate.

Timber, scattering cedar.

Undergrowth shadscale.

Land covered with dense undergrowth 80.00 chs.

July 4, 1906.

July 5: At 8h.04 m.a.m.l.m.t.I set off 40° 54'N.on lat. arc; 22° 52'N.on decl.arc; and determine a meridian with the solar at the cor.of secs.15,16,21, and 22,

Thence I run

S.89° 55'E.on random line bet.secs.15 and 22,

40.00 Set temp.¼ sec.cor.

80.03 Intersect N. and S.line 11 lks.S.of cor.of secs.14,15, 22 and 23.

Thence I run,

West on a true line bet.secs.15 and 22,

Over mountainous land; through scattering cedar timber.

20.00 Hollow, 75 ft.below sec.cor., drains S.70° W. and proceed along S.face of mountain.

Subdivision of T. 2 N. R. 9 W.

Chains.	
40.01½	Set a limestone 15x6x6 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on N.face; and raise a mound of of stone 2 ft.base, 1½ ft.high N.of cor. Pits impracticable.
66.00	Foot of mountain, bears N.30° W. and S.30° E.; enter rolling bench land, and dense shadscale undergrowth.
80.03	The cor.of secs.15,16,21, and 22.
	Land, mountainous and rolling.
	Soil, stony; 4th rate.
	Timber scattering cedar.
	Undergrowth shadscale.
	Mountainous land, or land covered with dense undergrowth 80.03 chs.

N.0°02'W.bet.secs.15 and 16,

	Over rolling ground; through dense shadscale undergrowth and few scattering cedars.
40.00	Set a limestone 15x10x8 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on W.face; and raise a mound of stone 2 ft.base, 1½ ft.high W.of cor. Pits impracticable.
42.60	Wash, 15 lks.wide, 3 ft.deep, drains W.
	Leave cedars bear E. and W.
76.40	Wash, 15 lks.wide, 2 ft.deep, drains N.65° W.
80.00	Set a limestone 15x6x6 ins., 10 ins.in the ground,for cor.of secs.9,10,15 and 16, marked with 4 notches on S. and 3 notches on E.edges; and raise a mound of stone 2 ft.base, 1½ ft.high W.of cor. Pits impracticable.
	Land, rolling.
	Soil, stony and gravel; 3d and 4th rate.
	Timber very few scattering cedars.

Subdivision of T. 2 N. R. 9 W.

Undergrowth shadscale.

Chains. Land covered with dense undergrowth 80.00 chs.

East on a random line bet.secs.10 and 15,

40.00 Set temp.¼ sec.cor.

80.02 Intersect N. and S.line, 11 lks.N.of cor.of secs.10,11 14 and 15. Thence I run

N.89° 55'W.on a true line bet.secs.10 and 15,

Over mountainous land; through scattering cedar timber; along spur from main ridge.

1.50 Divide between Lake Side and Puddle Valley, 1900 ft. high, bears N. and S. Descend down spur.

3.00 Saddle on spur of ridge; ascend.

6.00 Top of rocky knoll; descend over very rough broken country.

40.01 Set a limestone 15x8x5 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on N.face; and raise a mound of stone 2 ft.base,1½ ft.high N.of cor.

Pits impracticable.

43.00 Begin very steep descent into hollow.

48.00 Bottom of hollow, 75 ft.below top of steep descent, drains S.80° W.; thence along S.face of ridge.

55.00 Bottom of hollow, same as last named, drains N.80° W.

Ascend over ledges.

60.00 Top of ascent, 100 ft.above hollow, and proceed down ridge.

74.50 Foot of mountain, 200 ft.below top of ridge, bears N.30 W. and S.30° E.

Enter rolling bench land and dense shadscale undergrowth.

80.02 The cor.of secs.9,10,15, and 16.

Land mountainous.

Soil, stony; 4th rate.

Timber, scattering cedar.

Undergrowth, shadscale.

Subdivision of T. 2 N. R. 9 W.

Chains. Mountainous land, or land covered with dense undergrowth 80.02 chs.

July 5: At this cor.I set off 22° 50'N.on decl.arc; and at 0 h.04 m.p.m.l.m.t.observe the sun on the meridian; the resulting lat.is 40' 55'N.

N.0°02'W.bet.secs.9 and 10,

Over stony rolling ground; through dense shadscale undergrowth; leaving scattering cedars.

8.00 Foot of mountain, bearing N. and S.about 50 lks.E.

20.00 Leave foot of mountain bears N.15° E. and S.

40.00 Set a limestone 15x8x6 ins., 10 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor. Pits impracticable.

67.14 Sheep road bears N.20° E. and S.20° W.

80.00 Set a limestone 15x10x5 ins., 10 ins.in the ground,for cor.of secs.3,4,9, and 10, marked with 5 notches on S. and 3 notches on E.edges; dig pits 18x18x12 ins. in each sec.$5\frac{1}{2}$ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

Land, rolling.

Soil, stony and sandy; 3d rate.

No timber.

Undergrowth shadscale.

Land covered with dense undergrowth 80.00 chs.

S.89° 55'E.on a random line bet.secs .3 and 10,

40.00 Set temp.$\frac{1}{4}$ sec.cor.

80.04 Intersect N. and S.line, 12 lks.S.of cor.of secs.2,3, 10, and 11.

Thence I run

West on a true line bet.secs.3 and 10,

S[illegible] v sion of T. 2 N. R. 9 W.

Chains.	
	Over mountainous land; through scattering cedar timber.
1.00	W ash, 10 lks.wide, 2 ft.deep, drains N.60° E.
4.00	Trail, bears N.60° E. and S.60° W.
9.50	Divide between Lake Side and Puddle Valley, 800 ft. high. bears N. and S. Bass, with trail, lies about 2 chs.S.
16.50	Trail bears N.80° W. and S.80° E.
40.02	Set a limestone 15x12x6 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on N.face; and raise a mound of stone 2 ft.base, 1½ ft.high N.of cor. Pits impracticable.
72.00	Foot of mountain, bears N. and S.
	Enter rolling land and dense shadscale undergrowth.
76.00	Sheep road bears N. and S.
80.04	The cor.of secs.3,4,9, and 10.
	Land mountainous and rolling.
	Soil, stony; 3d rate.
	Timber scattering cedar.
	Undergrowth shadscale.
	Mountainous land, or land covered with dense undergrowth 80.04 chs.

	N.0°02'W.on a random line bet.secs.3 and 4,
40.00	Set temp.¼ sec.cor.
79.74	Intersect N.bdy.of Tp. at the cor.of secs.3,4,33, and 34, as established by myself and heretofore described
	Thence I run
	S.0°02'E.on a true line bet.secs.3 and 4,
	Over rolling ground; through dense shadscale undergrowth.
21.50	Road to Wrathall's Pass, bears N.25° E. and S.25° W.
39.74	Set a conglomerate stone 15x7x6 ins., 10 ins.in the ground, for ¼ sec.cor., marked ¼ on W.face; and raise

Chains.	
	a mound of stone 2 ft.base, 1½ ft.high W.of cor.
	Pits impracticable.
62.00	Sheep road bears N.15° W. and S.15° E.
77.00	Sheep road bears E. and W.
79.74	The cor.of secs.3,4,9, and 10.
	Land, rolling.
	Soil, sand, clay, and gravel; 3d rate.
	No timber.
	Undergrowth shadscale.
	Land covered with dense undergrowth 79.74 chs.
	July 5, 1906.

July 5: At 3 h. 04 m.p.m.l.m.t.I set off 40° 51'N.on the lat.arc; 22° 50'N.on decl.arc; and determine a meridian with the solar at the cor.of secs.4,5,32, and 33 on the S.bdy.of the Tp., as established by me and heretofore described, and mark a point thereof on a peg firmly set in the ground, 5 chs.N.of the cor.

July 5, 1906.

July 6: At 0 h.36 m.a.m.l.m.t.I observe Polaris at eastern elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined, on a peg driven into the ground, 5 chs.N. of my station.

At 7 h.0 m.a.m.l.m.t.I lay off the azimuth of Polaris 1° 35'to the west, and mark the meridian thus determined, by driving a tack into the peg set July 5, on which the meridian falls 0.3 ins.east of the mark determined by the solar.

At 8 h.04 m.a.m.l.m.t.I set off 40° 51'N.on the lat. arc; 22° 46'N.on the decl.arc; and mark a point int the meridian determined with the solar, by a tack

ubdivision of T. 2 N. R. 9 W.

Chains.

driven into the peg already set 5 chs. N.of my station; this mark falls 0.3 ins.east of the meridian established by the Polaris observation.

The solar apparatus by p.m.and a.m.observations defines positions for meridians, respectively about 0'16" west, and 0' 16 " east of the meridian established by the Polaris observations; therefore I conclude the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h. a.m. is N.17° 23'W.; the angle thus determined gives the mag.decl.17° 23'E.

From said corner.of secs.4,5,32 and 33, I run

N.0°03'W.bet.secs.32 and 33,

Over rolling sandy ground; through dense greasewood undergrowth.

40.00 Set a limestone 15x10x10 ins., 10 ins.in the ground, for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x 12 ins.N. and S.of stone, 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.

80.00 Set a limestone 15x9x8 ins., 10 ins.in the ground for cor.of secs.28,29,32, and 33, marked with 1 notch on S. and 4 notches on E.edge; dig pits 18x18x12 ins.in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

Land, rolling.

Soil, sandy; 3d rate.

No timber.

Undergrowth greasewood.

Land covered with dense undergrowth 80.00 chs.

East on a random line be t.secs.28 and 33,

40.00 Set temp.¼ sec.cor.

Subdivision of T. 2 N., R. 9 W.

Chains.	
80.01	Intersect N. and S.line 11 lks.S.of the cor.of secs.27, 28,33, and 34.
	Thence I run
	S.89° 55'W.on a true line bet.secs.28 and 33,
	Over rolling sandy ground; through dense greasewood undergrowth and few scattering cedars, on first 4 chains.
40.00½	Set a limestone 15x8x5 ins., 10 ins.in the ground, for ¼ sec.cor., marked ¼ on N.face; dig pits 18x18x12 ins.E. and W.of stone 3 ft.dist.; and raise a mound of earth 3½ ft. base, 1½ ft.high N.of cor.
80.01	The cor.of secs.28,29,32, and 33.
	Land rolling.
	Soil, sandy, 2d rate.
	Timber, few cedars on E.end of mile.
	Undergrowth greasewood.
	Land covered with dense undergrowth 80.01 chs.
	July 6: At this cor.I set off 22° 45'N.on decl.arc;and at 0 h.04 m.p.m.l.m.t., observe the sun on the meridian; the resulting lat.is 40° 52'N.

N.0°03'W.bet.secs.28 and 29,

	Over rolling sandy land; through dense greasewood undergrowth.
40.00	Set a limestone 15x8x6 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x12 ins.N. and S.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.
80.00	Set a limestone 15x8x8 ins., 10 ins.in the ground,for cor.of secs.20,21,28,and 29, marked with 2 notches on S. and 4 notches on E.edge; dig pits 18x18x12 ins. in each sec. 5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

Chains. Land, rolling.

Soil, sandy; 2d rate.

No timber.

Undergrowth greasewood.

Land covered with dense undergrowth 80.00 chs.

N.89° 55'E.on a random line bet.secs.21 and 28,

40.00 Set temp.¼ sec.cor.

80.03 Intersect N. and S.line 9 lks.N.of cor.of secs.2 1,22, 27, and 28. Thence I run

S.89° 59'W.on a true line bet.secs.21 and 28,

Over gently rolling stony land; through dense greasewoo undergrowth.

29.00 Leave stony land; enter sandy land.

31.15 Sheep road bears N.20° W. and S.20° E.

40.01½ Set a limestone 15x8x5 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on N.face; dig pits 18x18x12 ins.E. and W.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.

80.03 The cor.of secs.20,21,28, and 29.

Land, gently rolling.

Soil, stony and sandy; 2d and 3d rate.

No timber.

Undergrowth greasewood.

Land covered with dense undergrowth 80.03 chs.

N.0°03'W.bet.secs.20 and 21,

Over rolling, sandy land; through dense shadscale and greasewood undergrowth.

40.00 Set a limestone 15x7x6 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x12 ins.N. and S.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.

Subdivision of T 2 N. R. 9 W.

Chains.	
45.90	Wash, drains W., 12 lks.wide, 2 ft.deep.
80.00	Set a limestone 15x7x6 ins., 10 ins.in the ground,for cor.of secs.16,17,20, and 21, marked with 3 notches on S. and 4 notches on E.edges; dig pits 18x18x 12 ins.in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.
	Land, rolling.
	Soil, sandy; 2d rate.
	No timber.
	Undergrowth shadscale.and greasewood.
	Land covered with dense undergrowth 80.00 chs.
	July 6, 1906.

	July 7: At 8 h.05 m.a.m.l.m.t.I set off 40°54'N.on lat. arc; 22° 40'N.on decl.arc; and determine a meridian with the solar at the cor.of secs.16,17,20, and 21.
	Thence I run
	N.89° 59'E.on a random line be t.secs.16 and 21,
40.00	Set temp.¼ sec.cor.
80.05	Intersect N. and S.line, 5 lks.N.of cor.of secs.15,16, 21, and 22. Thence I run
	N.89° 59'W.on a true line bet.secs.16 and 21,
	Over rolling, stony ground; through dense shadscale undergrowth.
13.40	Sheep road bears N.15° E. and S.15° W.; leave stony land; enter sandy land.
40.02½	Set a limestone 15x8x5 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on N.face; dig pits 18x18x12 ins. E. and W .of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.
80.05	The cor.of secs.16,17,20, and 21.
	Land, rolling.
	Soil, stony and sandy; 2d and 3d rate.

Subdivision of T. 2 N. R. 9 W .

Chains No timber.

Undergrowth, shadscale.

Land covered with dense undergrowth 80.05 chs.

N.0°03'W.bet.secs.16 and 17,

Over gently rolling sandy land; through dense shadscale and greasewood undergrowth.

27.70 Wash, drains W., 10 lks.wide, 2 ft.deep.

40.00 Set a limestone 15x8x5 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x12 ins.N. and S.of stone, 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.

61.70 Wash, drains N.70° W. 15 lks.wide, 2 ft.deep.

80.00 Set a limestone 15x8x5 ins., 10 ins.in the ground,for cor.of secs.8,9,16, and 17, marked with 4 notches on S. and E.edges; dig pits 18x18x12 ins.in each sec. 5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

Land, rolling.

Soil, sandy; 2d rate.

No timber.

Undergrowth, greasewood.

Land covered with dense undergrowth 80.00 chs.

S.89° 59'E.on a random line bet.secs.9 and 16,

40.00 Set temp.¼ sec.cor.

80.08 Intersect N. and S.line 9 lks.S.of the cor.of secs.9, 10,15, and 16. Thence I run

S.89° 57'W.on a true line bet.secs.9 and 16,

Over gently rolling sandy land; through dense shadscale undergrowth.

34.80 Sheep road, bears N. and S.

40.04 Set a limestone 15x8x6 ins., 10 ins.in the ground for

Subdivision of T. 2 N., R. 9 W.

Chains.

$\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; dig pits 18x18x12 ins.E. and W.of stone, 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high N.of cor.

80.08 The cor.of secs.8,9,16, and 17.

Land, rolling.

Soil, stony and sandy; 2d rate.

No timber.

Land covered with dense undergrowth 80.08 chs.

July 7: At this cor.I s et off 22° 38'N.on decl.arc; and at 0 h.05 m.p.m.l.m.t.observe the sun on the meridian; the resulting lat. is 40° 55'N.

N.0°03'W.bet.secs.8 and 9,

Over gently rolling sandy land; throughdense shadscale undergrowth.

40.00 Set a limestone 15x8x5 ins., 10 ins.in the ground,for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; dig pits 18x18x12 ins.N. and S.of stone, 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high W.of cor.

74.60 Sheep road bears N.85° E. and S.85° W.

80.00 Set a limestone 15x7x7 ins., 10 ins.in the ground,for cor.of secs.4,5,8, and 9, marked with 5 notches on S. and 4 notches on E.edges; dig pits 18x18x12 ins.in e each sec.$5\frac{1}{2}$ ft.dist. ; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

Land gently rolling.

Soil, sandy; 2d rate.

No timber.

Undergrowth shadscale.

Land covered with dense undergrowth 80.00 chs.

N.89° 57'E.on a random line bet.secs.4 and 9,

40.00 Set temp.$\frac{1}{4}$ sec.cor.

3 N. R. 9 W.

Chains.

80.11 Intersect N. and S.line, 11 lks.N.of the cor.of secs. 3,4,9, and 10. Thence I run

N.89° 58'W.on a true line bet.secs.4 and 9,

Over rolling sandy land; through dense shadscale and greasewood undergrowth.

38.60 Sheep road bears N.70° E. and S.70° W.

40.05 Set a limestone 15x7x5 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on N.face; dig pits 18x18x12 ins.E. and W.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.

47.25 Sheep road bears N. and S.

80.11 The cor.of secs.4,5,8, and 9.

Land, gently rolling.

Soil, sandy, 3d rate.

No timber.

Undergrowth shadscale and greasewood.

Land covered with dense undergrowth 80.11 chs.

N.0°03'W.on a random line bet.secs. 4 and 5,

40.00 Set temp.¼ sec.cor.

79.75 Intersect the N.bdy.of the Tp.20 lks.W.of the cor.of secs.4,5,32, and 33, as established by me and hereto fore described.

Thence I run

S.0°06'W.on a true line bet.secs.4 and 5,

Over gently rolling sandy land; through dense shad-scale undergrowth.

39.7 Set a limestone 15x7x5 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x12 ins.N. and S.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.

79.7 The cor.of secs.4,5,8, and 9.

Land, gently rolling.

Subdivision of T. 2 N., R. 9 W.

Chains. Soil, sandy; 3d rate.

No timber.

Undergrowth shadscale.

Land covered with dense undergrowth 79.75 chs.

July 7, 1906.

July 8: At 8h.05 m.a.m.l.m.t.I set off 40° 51'N.on the lat.arc; 22° 34'N.on the decl.arc; and determine a meridian with the solar at the cor.of secs.5,6,31, and 32 on the S.bdy.of the Tp., as established by myself and heretofore described.

Thence I run

N.0°04'W.bet.secs.31 and 32,

Over rolling ground along E.side of knoll; through dense shadscale undergrowth.

40.00 Set a limestone 15x7x5 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on W.face; and raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.

Pits impracticable.

80.00 Set a limestone 15x7x6 ins., 10 ins.in the ground,for cor.of secs.29,30,31, and 32, marked with 1 notch on S. and 5 notches on E.edges; dig pits 18x18x12 ins. in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W .of cor.

Land, rolling.

Soil, stony and gravel.

No timber.

Undergrowth, shadscale.

Land, covered with dense undergrowth 80.00 chs.

East on a random line bet.secs.29 and 32,

40.00 Set temp.¼ sec.cor.

Subdivision of T. 2 N. R. 9 E .

Chains	
80.00	Intersect N. andS.line 16 lks.N.of cor.of secs.28,29,32 and 33. Thence I run
	N.89° 53'W.on a true line bet.secs.29 and 32,
	Over rolling sandy land; through dense shadscale undergrowth.
40.00	Set a limestone 15x8x6 ins., 10 ins.in the ground, for ¼ sec.cor., marked ¼ on N.face; dig pits 18x18x12 ins.E. and W.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.
56.60	Road bears N. and S., Grantsville to Oakley, Idaho.
79.50	Foot of knoll , bears N. and S. Ascend.
80.00	The cor.of secs.29,30,31, and 32 .
	Land, rolling.
	Soil, sand and gravel; 2d rate.
	No timber.
	Undergrowth shadscale.
	Land covered with dense undergrowth 80.00 chs.

	West on a random line bet.secs.30 and 31,
40.00	Set temp.¼ sec.cor.
79.33	Intersect W.bdy.of Tp.at the cor.of secs.25,30,31, and 36, as established by me and heretofore described.
	Thence I run
	East on a true line bet.secs.30 and 31,
	Over rolling ground; through dense shadscale undergrowth
8.50	Sheep road bears N.40° E. and S.40° W.
	Begin ascent of large knoll or mountain, bears N.40° E. and S.40° W.
37.80	Top of ascent, 300 ft.above sec.cor., bears N. and S.
	Descend.
39.33	Set a quartzite stone 15x7x5 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on N.face; and raise a mound

Chains.	
	of stone 2 ft.base, 1½ ft.high N.of cor.
	Pits impracticable.
52.50	Bottom of hollow, 150 ft.below ridge, drains N. and heads 15 chs.S.
63.50	Top of ridge, 120 ft.above hollow, bears N. and S.
79.33	The cor.of secs.29,30,31, and 32.
	Land, rolling and broken.
	Soil, stony; 4th rate.
	No timber.
	Undergrowth, shadscale.
	Land covered with dense undergrowth 79.33 chs.
	July 8: At this cor.I set off 22° 32'N.on decl.arc;and at 0 h.05 m. p.m.l.m.t.observe the sun on the meridian; the resulting lat.is 40° 52'N.

N.0°04'W.bet.secs.29 and 30,

Over rolling stony ground;- through dense shadscale undergrowth.

16.00	Top of low ridge, 60 ft.above hollow, spur of knoll, bears N. 45° E. and S.45° W.
32.00	Foot of descent, bears E. and W.
35.18	Sheep road bears N.85° E. and S.85° W.
40.00	Set a limestone 15x8x5 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x12 ins.N. and S .of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W .of cor.
79.30	Road, Grantsville to Oakley, Idaho, bears N.25° W. and S.25° E.
80.00	Set a limestone 15x8x7 ins., 10 ins.in the ground,for cor.of secs.19,20,29, and 30, marked with 2 notches on S. and 5 notches on E.edges; dig pits 18x18x12 ins.in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.
	Land,rolling.

bdivision f . 2 N. R. 9 W.

Chain . Soil, stony and sandy; 2d and 3d rate.

No timber.

Undergrowth shadscale.

Land covered with dense undergrowth 80.00 chs.

S.89° 53'E.on a random line bet.secs.2 0 and 29,

40.00 Set temp.¼ sec.cor.

80.02 Intersect N. and S.line 16 lks.S.of the cor.of secs. 20,21,28, and 29. Thence I run

West on a true line bet.secs.20 and 29,

Over gently rolling ground; through dense shadscale and greasewood undergrowth.

40.01 Set a limestone 15x7x5 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on N.face; dig pits 18x18x12 ins.E. and W.of stone, 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.

80.02 The cor.of secs.19,20,29, and 30.

Land, gently rolling.

Soil, sandy 2d rate.

No timber.

Undergrowth, shadscale.

Land covered with dense undergrowth 80.02 chs.

West on a random line bet.secs.19 and 30,

40.00 Set temp.¼ sec.cor.

79.30 Intersect W.bdy.of Tp.16 lks.S.of the cor.of secs.19,24 25, and 30, as established by me and heretofore described.

Thence I run

S.89° 53'E.on a true line bet.secs.19 and 30,

Over level land; through dense shadscale undergrowth.

28.00 Sheep road bears N.2 0° E. and S.20° W.

Ascend knoll.

Subdivision of T. 2 N., R. 9 W.

Chains.	
39.30	Set a limestone 15x8x5 ins., 10 ins.in the ground,for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor.
	Pits impracticable.
49.70	Top of ascent,250 ft.above sec.cor., bears N. and S.
	Descend.
67.30	Foot of descent bears N. and S.
79.15	Road bears N.25° W. and S.25° E. Grantsville to Oakley, Idaho.
79.30	The cor.of secs.19,20,29, and 30.
	Land, level and broken.
	Soil, sandy and stony; 3d and 4th rate.
	No timber.
	Undergrowth shadscale.
	Land covered with dense undergrowth 79.30 chs.
	July 8, 1906.

July 9: At 8 h.05 m.a.m.l.m.t.I set off 40° 53'N.on lat.arc; 22° 27'N.on decl.arc, and determine a meridian with the solar at the cor.of secs.19,20,29, and 30. Thence I run

N.0°04'W.bet.secs.19 and 20,

Over almost level land; through dense shadscale undergrowth.

40.00	Set a limestone 15x8x5 ins., 10 ins.in the ground,for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; dig pits 18x18x12 ins. N. and S.of stone, 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high W.of cor.
80.00	Set a limestone 15x8x6 ins., 10 ins.in the ground,for cor.of secs.17,18,19, and 20, marked with 3 notches on S.and 5 notches on E.edges; dig pits 18x18x12 ins. in each sec.$5\frac{1}{2}$ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

Chains. Land, almost level.

Soil, sandy; 2d rate.

No timber.

Undergrowth shadscale.

Land covered with dense undergrowth 80.00 chs.

East on a random line bet.secs.17 and 20,

40.00 Set temp.$\frac{1}{4}$ sec.cor.

79.96 Intersect N. and S.line at the cor.of secs.16,17,20, and 21. Thence I run

West on a true line bet.secs.17 and 20,

Over gently rolling sandy land; through dense shadscale undergrowth.

39.98 Set a limestone 15x7x5 ins., 10 ins.in the ground,for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; dig pits 18x18x12 ins E. and W.of stone, 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high N.of cor.

79.96 The cor.of secs.17,18,19, and 20.

Land very gently rolling.

Soil, sandy; 1st and 2d rate.

No timber.

Undergrowth, shadscale.

Land covered with dense undergrowth 79.96 chs.

N.89° 53'W.on a random line bet.secs.18 and 19,

40.00 Set temp.$\frac{1}{4}$ sec.cor.

79.26 Intersect W.bdy.of Tp. 4 lks.N.of the cor.of secs.13,18 19, and 24, established by me and heretofore describe .

Thence I run

S.89° 55'E.on a true line bet.secs.18 and 19,

Over almost level land; through dense shadscale under-growth.

39.26 Set a limestone 15x8x5 ins., 10 ins.in the ground,for

Chains. $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; dig pits 18x18x12 ins.E. and W.of stone, 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high N.of cor.

52.50 Road, Grantsville to Oakley, Idaho, bears N.30° W. and S.30° E.

79.26 The cor.of secs.17,18,19, and 20.

Land, almost level.

Soil, sand and clay; 2d rate.

No timber.

Undergrowth shadscale.

Land covered with dense undergrowth 79.26 chs.

July 9: At this cor.I set off 22° 25'N.on lat.arc; and at 0 h.05 m.p.m.l.m.t.observe the sun on the meridian; the resulting lat.is 40° 54'N.

N.0°04'W.bet.secs.17 and 18,

Over almost level land; through dense shadscale undergrowth.

40.00 Set a limestone 15x7x5 ins., 10 ins.in the ground,for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; dig pits 18x18x12 ins.N. and S.of stone 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high W.of cor.

80.00 Set a limestone 15x6x6 ins., 10 ins.in the ground,for cor.of secs.7,8,17, and 18, marked with 4 notches on S. and 5 notches on E.edge; dig pits 18x18x12 ins. in each sec.$5\frac{1}{2}$ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

Land, almost level.

Soil, sand and clay; 2d rate.

No timber.

Undergrowth shadscale.

Land covered with dense undergrowth 80.00 chs.

Chains East on a random line bet.secs.8 and 17,

40.00 Set temp.¼.sec.cor.

79.90 Intersect N. and S. line at the cor.of secs.8,9,16, and 17.

Thence I run

West on a true line bet.secs.8 and 17,

Over gently rolling sandy land; through dense shadscale undergrowth.

39.95 Set a limestone 15x8x6 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on N.face; dig pits 18x18x12 ins.E. and W.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.

79.90 The cor.of secs.7,8,17, and 18.

Land, gently rolling.

Soil, sandy 1st and 2d rate.

No timber.

Undergrowth shadscale.

Land covered with dense undergrowth 79.90 chs.

July 9, 1906.

July 10: At 8 h.05 m.a.m.l.m.t.I set off 40° 55'N.on lat.arc; 22° 20'N.on decl.arc; and determine a meridian with the solar at the cor.of secs.7,8,17, and 18.

Thence I run

N.89° 55'W.on a random line bet.secs.7 and 18,

40.00 Set temp.¼ sec.cor.

79.22 Intersect W.bdy.of Tp.8 1ks.N.of the cor.of secs.7,12, 13, and 18, as established by me and heretofore described. Thence I run

S.89° 57'E.on a true line bet.secs .7 and 18,

Over almost level land; through dense shadscale undergrowth.

11.22 Road, Grantsville to Oakley, Idaho, bears N.30° W. and

Subdivision of T 2 N. R 9 W.

Chains.	
	S.30° E.
39.22	Set a limestone 15x8x5 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on N.face; dig pits 18x18x12 ins.E. and W.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.
44.80	Sheep road bears N.48° E. and S.48° W.
79.22	The cor.of secs.7,8,17, and 18.
	Land almost level.
	Soil, sandy; 1st and 2d rate.
	No timber.
	Undergrowth shadscale.
	Land covered with dense undergrowth 79.22 chs.

N.0°04'W.bet.secs.7 and 8,

	Over almost level land; through dense shadscale undergrowth
30.40	Sheep road bears N.45° E. and S.45° W.
40.00	Set a limestone 15x10x5 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x12 ins.N. and S.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.
80.00	Set a conglomerate stone 18x12x6 ins., 12 ins.in the ground for cor.of secs.5,6,7, and 8, marked with 5 notches on S. and E.edges; dig pits 18x18x12 ins.in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.
	Land, almost level.
	Soil, sandy; 1st and 2d rate.
	No timber.
	Undergrowth shadscale.
	Land covered with dense undergrowth 80.00 chs.

East on a random line bet.secs.5 and 8,

bdivision of T. 2 N., R. 9 W.

Chains

40.00 Set temp. $\frac{1}{4}$ sec.cor.

79.76 Intersect N. and S.line 23 lks.N.of the cor.of secs. 4,5,8, and 9. Thence I run

N.89° 50'W.on a true line bet.secs.5 and 8,

Over almost level, sandy land; through dense shadscale undergrowth.

39.88 Set a limestone 15x7x5 ins., 10 ins.in the ground,for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; dig pits 18x18x12 ins.E. and W.of stone, 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high N.of cor.

79.76 The cor.of secs.5,6,7, and 8.

Land, almost level.

Soil, sandy; 1st and 2d rate.

No timber.

Undergrowth shadscale.

Land covered with dense undergrowth 79.76 chs.

July 10: At this cor.I set off 22° 18'N.on decl.arc; and at 0 h.05 m.p.m.l.m.t.observe the sun on the meridian; the resulting lat.is 40° 56'N.

N.89° 57'W.on a random line bet.secs.6 and 7,

40.00 Set temp. $\frac{1}{4}$ sec.cor.

79.18 Intersect W.bdy.of Tp.7 lks.N.of the cor.of secs.1,6,7 and 12, established by me and heretofore described.

Thence I run

East on a true line bet.secs.6 and 7,

Over level land; through dense shadscale undergrowth.

39.18 Set a limestone 15x7x5 ins., 10 ins.in the ground,for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; dig pits 18x18x12 ins. E. and W.of stone 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high N.of cor.

79.18 The cor.of secs.5,6,7, and 8.

Land, level.

Subdivision T. 2 N., R. 9 W.

Chains.

Soil, sandy; 1st and 2d rate.

No timber.

Undergrowth shadscale.

Land covered with dense undergrowth 79.18 chs.

N.0°04'W.on a random line bet.secs.5 and 6,

40.00 Set temp.¼ sec.cor.

79.86 Intersect N.bdy.of Tp. 9 lks.W.of the cor.of secs.5,6, 31, and 32, established by me and heretofore described. Thence I run

South on a true line bet.secs.5 and 6,

Over level land; through dense shadscale undergrowth.

39.86 Set a limestone 15x7x5 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x12 ins.N. and S.of stone, 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.

79.86 The cor.of secs.5,6,7, and 8.

Land, level.

Soil, sandy; 1st and 2d rate.

No timber.

Undergrowth shadscale.

Land covered with dense undergrowth 79.86 chs.

July 10, 1906.

General Description.

This township contains nearly every variety of land, from plains to mountains.

In the northeast portion of the township the soil is of a gravelly nature near the mountains; while farther into the valley it consists of a sandy loam.

The same condition prevails along the base of the mountains on their western slope; but in the western

eneral Descripti n T. 2 N. R. 9 W.

part of the township it consists mainly of clay, or clay and gravel.

The northwestern portion of this township lies in what is known as Puddle Valley.

Numerous bunches of alfalfa, wheat, oats, and barley growing from seed scattered accidentally by travelers, along the roads and trails, is proof that much of this township will produce crops without irrigation.

Almost the entire township is covered with a fine growth of nutritious grasses, rendering it very valuable for grazing during the winter and early spring; it is impossible to pasture during the summer and fall, on account of lack of water, one small spring in sec.25 being the only water on or near the township.

While I do not feel justified in turning this in as mineral land, yet, croppings of iron, copper, and lead occur in various parts of the mountain range.

A considerable amount of development work has been done on the Nielson No.2 mine in sec.24, and at the Monarch Mine in Sec.11.

The present water-line of the Great Salt Lake, extending in a northwesterly and southeasterly direction, bears, from the NE.cor.of the Township, north about 3 or 4 miles distant.

Almost the entire mountainous portion of the township affords a fair growth of scattering cedar timber.

There are no settlers in the township.

The land lying north, south, and west of this township is valuable for grazing and arid farming, and should be surveyed.

Alonzo J. Stookey

U.S. Deputy Surveyor.

Note:

In the survey of T. 2 N., R. 9 W., there being no officer authorized to administer oaths, other than myself, available, without great inconvenience, delay, and expense, I administer the required preliminary and final oaths myself.

Alonzo J. Stanley

U.S. Deputy Surveyor.

Volume

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Alonzo J. Stookey, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the subdivisions of T. 2 N. R. 9 W. Salt Lake Base and Meridian Utah. showing the respective capacities in which they acted:

David Sharp Jr., Chainman.
Ambrose Green, Chainman.
Lionel J. Stookey, Moundman.
, Moundman.
, Axman.
, Axman.
Lincoln A. Stookey, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alonzo J. Stookey, United States Deputy Surveyor, in surveying all those parts or portions of the subdivisions of T. 2 N. R. 9 W. of the Salt Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

David Sharp Jr., Chainman.
Ambrose Green, Chainman.
Lionel J. Stookey, Moundman.
, Moundman.
, Axman.
, Axman.
Lincoln A. Stookey, Flagman.

Subscribed and sworn to before me this 10th day of July, 1906.

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alonzo J. Stookey, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward St. Aubin United States Surveyor General for Utah, bearing date of the 1st day of June, 1905, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivisions of T. 2 N. R. 9 W. of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Alonzo J. Stookey
United States Deputy Surveyor

Subscribed by said Alonzo J. Stookey and sworn to before me this 29th day of March, 1907

Thomas Bell
U.S. Surveyor General
for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, April 20, 1907

The foregoing field notes of the survey of the Subdivisional lines of Township No. 2 North, Range No. 9 West of the Salt Lake Base and Meridian, Utah,

executed by Alonzo J. Stookey, under his contract No. 290, dated June 1, 1905, having been carefully examined, and the necessary corrections and explanations made, the said field notes, and the survey they describe, are hereby approved.

Thomas Bell
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in ..... has been correctly copied from the original notes on file in this office.

United States Surveyor General