Volume

#

R0257

A-257

BOOK A-257

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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 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

.....

..... *Chainman.*

..... *Chainman.*

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 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, ..., 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 .....

..... *Flagman.*

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

SEAL

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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 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

.....

....., *Chainman.*

....., *Chainman.*

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 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, ..., 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

.....

....., *Flagman.*

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

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Township 13 S, *Range* 2 W.

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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 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

.....

..... *Chainman.*

..... *Chainman.*

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 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, ..., 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 .....

....., *Flagman.*

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

SEAL

.....

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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 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 .....

..... *Chainman.*

..... *Chainman.*

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 monumenters in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of .....

..... *Monumenter.*

..... *Monumenter.*

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, ... 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 .....

..... *Flagman.*

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

SEAL

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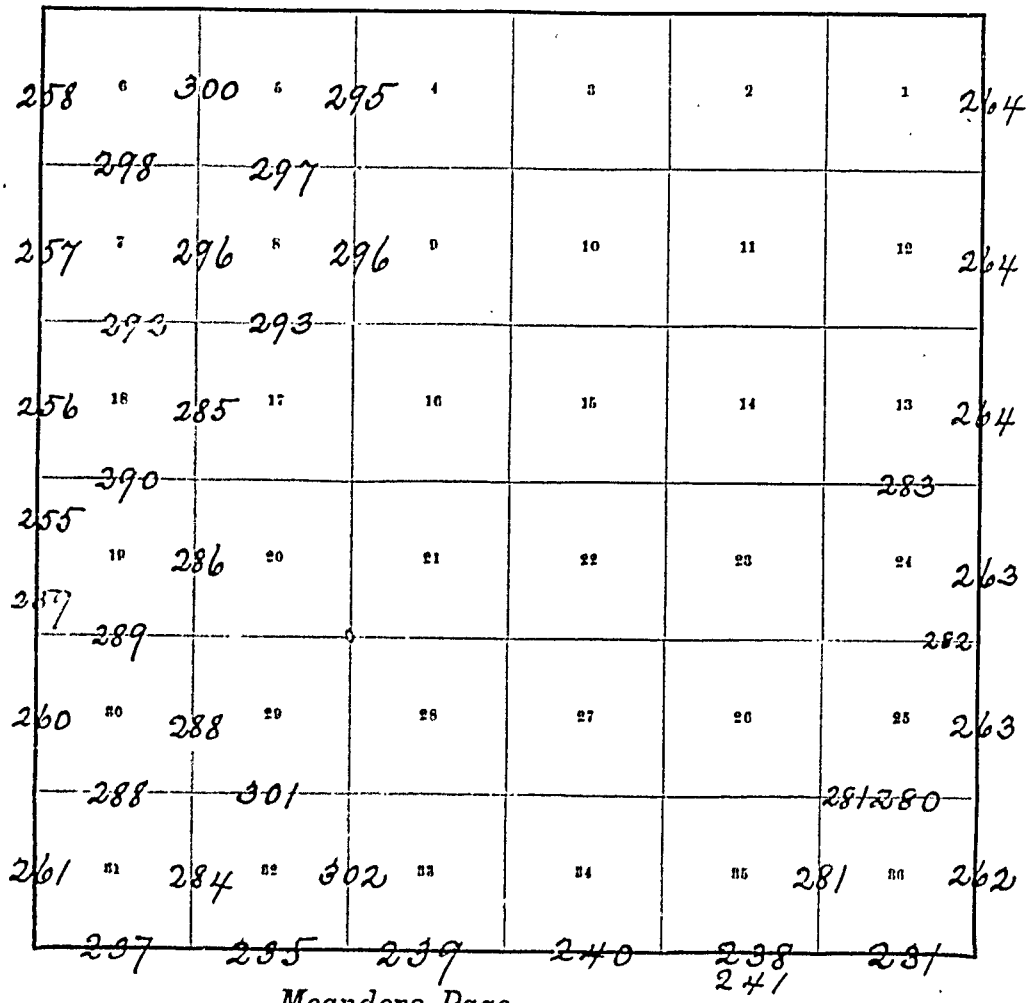
INDEX DIAGRAM.

Township 15 S, *Range* 1 W



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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 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

.....

..... *Chainman.*

..... *Chainman.*

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 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, ..., 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 .....

..... *Flagman.*

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

SEAL

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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 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

.....

....., *Chainman.*

....., *Chainman.*

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 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, ..., 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 .....

....., *Flagman.*

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

SEAL

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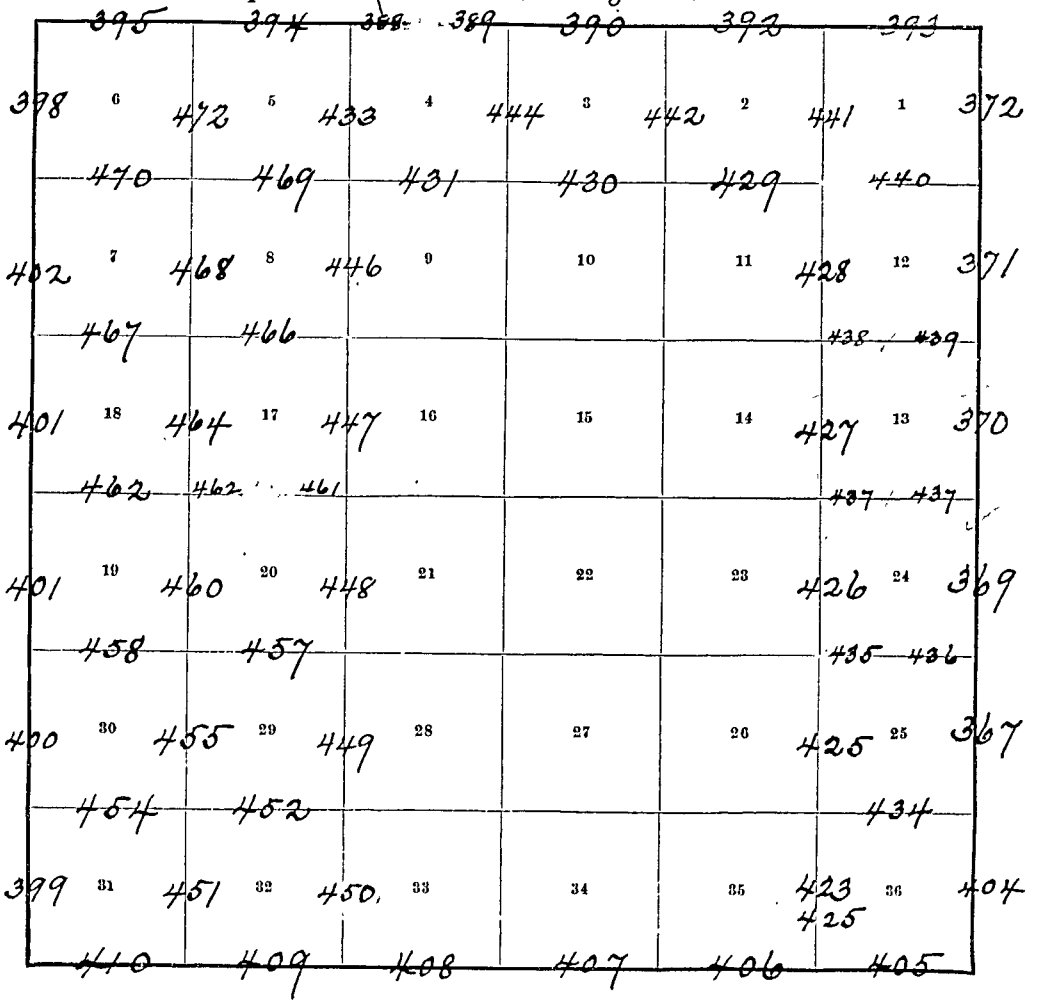
Township 17 S, *Range* 1 W.



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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 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 .....

....., *Chainman.*

....., *Chainman.*

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 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, ..., 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 .....

....., *Flagman.*

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

SEAL

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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 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

.....

..... *Chainman.*

..... *Chainman.*

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 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, ..., 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 .....

..... *Flagman.*

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

SEAL

4—679.

BOOK A-257

K.J.B.

FIELD NOTES

OF THE SURVEY OF THE

Subdivisions

of

Township 10 South, Range 1 West.

Of the Salt Lake Base and Meridian,

Utah.

AS SURVEYED BY

Scott P. Stewart Sr. and Andrew J. Stewart Jr., United States Deputy Surveyors

Under ~~his~~ their Contract No. 217, dated November 1st, 1897.

Survey commenced April 20th, 1898.

Survey completed April 23rd, 1898.

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[illegible] 4-77-85 ✓

" [illegible] 50-25 ✓

[illegible] 5-02-00 ✓

" [illegible] 1-07-00 ✓

" " 3-03-99 ✓

[illegible] " " 2-00-40 ✓

NAMES AND DUTIES OF ASSISTANTS.

John R. Stewart, Chainman.

Daniel H. Y. McAllister, Chainman.

William W. Richardson Jr. Chainman.

Alma Betts, Chainman.

Antone P. Stewart, Moundman.

Peter S. Sorensen, Moundman.

Benjamin F. Stewart, Axman.

Quinby Stewart, Flagman.

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Township 10 South, *Range* 1 West.

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PRELIMINARY OATHS OF ASSISTANTS.

WE, John R. Stewart, Daniel H. Y. Mc Allister, ~~and~~ William W. Richardson Jr. & Alma Betts 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.10 S., R.1 W.; T.13 S., R.2 W.; T.14 S., R.1 W.; T.15 S., R.1 W.; T.15 S., R.1½ W.; T.17 S., R.1 W.; T.16 S., R.1 W.; T.18 S., R.1 E.; T.17 S., R.2 E.; T.17 S., R.1 E.; T.16 S., R.2 E.; and T.16 S., R.1 E., of the Salt Lake Base and Meridian, Utah

John R. Stewart, Chainman.

Daniel H. Y. McAllister, Chainman.

William W. Richardson Jr.

Alma Betts Chainm

Subscribed and sworn to before me this 20th day of April, 1898

Shadrach M. Richardson
Justice of the Peace
Benjamin Utah Co

SEAL

WE, Antone P. Stewart and Peter S. Sorensen 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 T.10 S., R.1 W.; T.13 S., R.2 W.; T.14 S., R.1 W.; T.15 S., R.1 W.; T.15 S., R.1½ W.; T.17 S., R.1 W.; T.16 S., R.1 W.; T.18 S., R.1 E.; T.17 S., R.2 E.; T.17 S., R.1 E.; T.16 S., R.2 E.; and T.16 S., R.1 E., of the Salt Lake Base and Meridian, Utah

Antone P. Stewart, Moundman.

Peter S. Sorensen, Moundman.

Subscribed and sworn to before me this 20th day of April, 1898

Shadrach M. Richardson
Justice of the Peace
Benjamin Utah Co

SEAL

~~WE~~, I Benjamin F. Stewart ~~and~~ do solemnly swear that ~~we~~ I will well and truly perform the duties of axmen 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 T.10 S., R.1 W.; T.13 S., R.2 W.; T.14 S., R.1 W.; T.15 S., R.1 W.; T.15 S., R.1½ W.; T.17 S., R.1 W.; T.16 S., R.1 W.; T.18 S., R.1 E.; T.17 S., R.2 E.; T.17 S., R.1 E.; T.16 S., R.2 E.; and T.16 S., R.1 E., of the Salt Lake Base & Meridian, Utah.

Benjamin F. Stewart, Axman.

, Axman.

Subscribed and sworn to before me this 20th day of April, 1898

Shadrach M. Richardson
Justice of the Peace
Benjamin Utah Co

SEAL

I, Quimby Stewart, 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.10 S., R.1 W.; T.13 S., R.2 W.; T.14 S., R.1 W.; T.15 S., R.1 W.; T.15 S., R.1½ W.; T.17 S., R.1 W.; T.16 S., R.1 W.; T.18 S., R.1 E.; T.17 S., R.2 E.; T.17 S., R.1 E.; T.16 S., R.2 E.; and T.16 S., R.1 E., of the Salt Lake Base & Meridian, Utah

Quimby S. Stewart, Flagman.

Subscribed and sworn to before me this 20th day of April, 1898

Shadrach M. Richardson
Justice of the Peace
Benjamin Utah Co

SEAL

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Chains. Survey commenced April 20, 1898, and executed with a W. and L. E. Gurley light mountain transit, No. -, 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; and a Buff and Berger transit, No. 2511, the horizontal limb is provided with two double verniers reading to single minutes of arc.

The instruments were examined, tested on the true meridian at Salt Lake City, found correct, and were approved by the surveyor general for Utah; the former on December 4, 1897; and the latter on April 5, 1898.

We examine the adjustments of the instruments, and correct the level and collimation errors, then, to test the solar apparatus, of the Gurley instrument, 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, we proceed as follows: At the cor. of secs. 1, 2, 35, and 36, on the S. bdy. of T. 10 S., R. 1 W., latitude 39° 54' N., longitude 111° 55' W.; we set off 39° 54' N., on the lat. arc; 11° 48' N., on the decl. arc; and 3h 58m p. m., l. m. t., determine with the solar, of the Gurley instrument, a true meridian and mark a

chains. point thereof on a stone firmly set in the ground, 5 chs. N. of the cor.

April 20, 1898.

April 21, 1898: At $5^h 26^m.9$ a. m., l. m. t., we observe Polaris at eastern elongation, with the Buff and Berger instrument, in accordance with the Manual of Instructions, and mark a point in the line thus determined on a plug driven in the ground, 5 chs. N. of our station.

At $6^h 30^m$ a. m., l. m. t., we lay off the azimuth of Polaris 1°36'.8 to the west, on the Buff and Berger instrument, and mark the True Meridian thus determined, by cutting a small groove in the stone set April 20, on which the true meridian falls 0.3 ins. east of the mark determined by the solar of the Gurley instrument.

At $6^h 35^m$ a. m., l. m. t., we lay off the azimuth of Polaris 1°36'.8 to the west, on the Gurley instrument, and mark the True Meridian thus determined by cutting a small groove in the stone set April 20, on which the true meridian falls 0.3 ins. east of the mark determined by the solar.

At $7^h 3^m$ a. m., l. m. t., we set off 39°54' N., on the lat. arc; 12°2' N., on the decl. arc; and mark a point in the true meridian determined with the solar, of the Gurley instrument, by a cross on the stone already set 5 chs. N. of our station; this mark falls 0.26 ins. east of the

true meridian established by Polaris observations.
The solar apparatus of the Gurley instrument, by p. m. and a. m observations, defines positions for the true meridian, respectively about 0'16" west and 0'14" east of the meridian established by Polaris observation; therefore we conclude that the adjustments of the instruments are satisfactory.
The magnetic bearing of the true meridian, at 7h 40m a. m. is N. 16° 35' W.; the angle thus determined, reduced by the table, page 100, gives the mean mag. decl. 16° 31' E.

From the cor. of secs. 1, 2, 35, and 36, on S. bdy. of the Tp., which is a trachyte stone, 12x6x6 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general.
We run
N. 0° 1' W., bet. secs. 35 and 36.
Over rolling mountains; ascend
18.00 Top of ridge, 100 ft. above cor., bears E. and W.; enter scattering cedar timber, bears E. and W.; descend.
21.00 Wagon road, leading from Gosh en to timber, bears N. 20° W. and S. 20° E.
40.00 Set a trachyte stone, 18x8x6 ins., 12 ins. in the ground, for 4 sec. cor., marked 4 on W. face; from which
A cedar, 3 ins. diam., bears S. 80° W., 35 lks. dist., marked

Subdivision of T. 10 S., R. 1 W. - Continued.

Chains.	
	¼ S. 35, B. T.
	no other trees within limits; raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor. Pits impracticable.
53.85	Same road, bears N. E. and S. W.
55.00	Bottom of hollow, 200 ft. below ridge, course N. 30° E.; ascend.
75.00	Top of ridge, 100 ft. above hollow, N. 30° E. and S. 30° W.; leave scattering cedar timber, bear N. 30° E. and S. 30° W.; descend.
80.00	Swale, 100 ft. below ridge, course E. Set a blue limestone, 24 x 10 x 8 ins., 18 ins. in the ground, for cor. of secs. 25, 26, 35, and 36, marked with 1 notch 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. Sand, rolling mountains. Soil, loam and rocky; 2nd and 4th rate. Timber, scattering cedar. Good grass for grazing. Mountainous, land, 80.00 chs.
	East, on a random line bet. secs. 25 and 36.
40.00	Set temp. ¼ sec. cor.
33.00	Intersect E. bdy. of Tp. 48 lks. S. of cor. of secs. 25, 30, 31, and 36, which is a limestone, 14 x 10 x 6 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general. Thence we run S. 89° 40' W., on a true line bet. secs. 25 and 36.

Subdivision of T. 10 S., R. 1 W. - Continued.

chains.	
	Over mountainous land; ascend.
12.00	Top of sharp ridge, 125 ft. above cor., bears N. W. and S.; descend.
41.50	Set a limestone, 18 x 14 x 8 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.
44.50	Bottom of hollow, 150 ft. below ridge, course S. W.; ascend.
59.00	Top of ridge, 60 ft. above hollow, bears N. E. and S. W.; descend.
67.00	Bottom of hollow, 100 ft. below ridge, course S. W.; ascend.
69.50	Top of sharp, rocky spur, 70 ft. above hollow, bears N. E. and S. W.; descend.
77.00	Wagon road, leading from Goshen to Nephi, bears N. W. and S. E.
77.75	Currant Creek, 60 ft. below ridge, 18 lks. wide, 2 ft. deep, rapid current, rocky bottom, course N. W.; in bottom of Little Salt Creek Canon; ascend.
82.25	Mount Nebo Irrigation Company's flume, 10 lks. wide, 4 ft. deep, course N. W.
83.00	The cor. of secs. 25, 26, 35, and 36.

Sand, mountainous.
Soil, loam and rocky; 2nd and 4th rate.
No timber.
Good grass for graging.
Mountainous land, 83.00 chs.

Note: The line bet. secs. 25 and 36, not closing within the limits perscribed by the Manual; we retrace the S. and E. bdys. of

Subdivision of T. 10 S., R. 1 W. - Continued.

chains	sec. 36 as follows:
	From the cor. of secs. 1, 2, 35, and 36, on S. bdy. of Tp., heretofore described, we run
	East, on a retracement line bet. secs. 1 and 36.
40.75	The ¼ sec. cor. on S. bdy. of sec. 36, which is a hard sandstone, 12 x 6 x 6 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general.
c 82.99	The standard cor. of Tp. 10 South Rs. 1 E. and 1 W., which is a limestone, 12 x 10 x 6 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general.
	April 21, 1898:- At this cor., we set off 12°5' N., on the decl. arc; and at 0h 3m p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 39°54' N.
	From the cor. first described we run
	North, on a retracement line along the E. bdy. of sec. 36.
40.12	The ¼ sec. cor. on E. bdy. of sec. 36, which is a sandstone, 18 x 12 x 6 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general.
c 80.40	The cor. of secs. 25, 30, 31, and 36, heretofore described.
	From the cor. of secs. 25, 26, 35, and 36,

chains.	
	We run N. 0°1' W., on a random line bet. secs. 25 and 26,
40.00	Search diligently but find no trace of ¼ sec. cor. Set temp. ¼ sec. cor.
80.00	We search diligently but find no trace of old cor. Set temp. cor. of secs. 23, 24, 25, and 26.
	Note:- Being unable to find any of the original sec. or ¼ sec. corners near here either by retracement or enquiry of the old settlers except the cor. of secs. 23, 24, 25, and 26, the position of which is identified to us by Mr. William T. Ercanbrack, and other old settlers in this vicinity, who are most interested in its location. They claim that it was reestablished in its original position by the county surveyor, 20 years ago, and has since that time remained undisturbed. According to the field notes of the original survey the corner is at a point 22.80 chains, N.; 8.00 chains W., and 5.00 chains S. of Current Creek. Its present position is at a point 17.80 chains N.; 8.00 chs. W.; and 5 chs. S. of Current Creek. The banks of the creek are well defined and show no sign of change of bed, having a dense growth of willows and briers on them. Believing this to be the point said cor. was originally located we reestablish it at same point as follows:
	Set a limestone, 24 x 12 x 10 ins., 18 ins. in the ground, for reestablished cor. of secs. 23, 24, 25, and 26, marked with 2 notches on S. and 1 notch

chains. 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.

In order to reestablish the rest of the corners upon which we are to close our surveys in this fractional township, and knowing of no corners nearer than the S. bdy., we begin at the reestablished corner of secs. 23, 24, 25, and 26, heretofore described, and run West, on a random line bet. secs. 23 and 26; and 22, and 27, finding no trace of ¼ or sec. corners and setting temp. ¼ sec. and sec. cors. at intervals of 40 chs.; and at 160.40 chs., intersect N. and S. line, 108 lks. N. of the cor. of secs. 21, 22, 27, and 28, which is a greatly decayed post marked and witnessed as described by the surveyor general, and claimed to be the original corner by the settlers here.

Note.-We destroy all traces of the old corner and reestablish it at the same point as follows:

Set a granite stone, 30x18x12 ins., 22 ins. in the ground, for reestablished cor. of secs. 21, 22, 27, and 28, marked with 2 notches on S. and 3 notches on E. 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.

The falling answers to a correction of 0°23' or 54 lks. S. and the distance 80.20 chs. per mile, counting from the cor. of secs. 21, 22, 27, and 28.

Thence we run

N. 89°37' E., on a true line bet. secs.

	22 and 27.
	Ascend gently over sandy land.
38.05	Corner of fence, 3 lks. N., fence bears N. and E.
40.10	Set a limestone, 20x10x8 ins., 15 ins. in the ground for reestablished 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.
55.35	A log cabin bears N. about 35 lks. dist.
80.20	Set a granite stone, 36x15x10 ins., 27 ins. in the ground, for reestablished cor. of secs. 22, 23, 26, and 27, marked with 2 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.
	Sand, nearly level bench.
	Soil, sandy and clay loam; 1st rate.
	No timber. April 21, 1898.

	April 22, 1898. The sky is overcast the entire forenoon and solar observations are impossible.
	N. 89° 37' E., on a true resurvey line, bet. secs. 23 and 26.
	Over level bench.
.35	Corner of a fence is 5 lks. N., fence bears N. and W.
12.35	Irrigating ditch, 10 lks. wide, 12 ins. deep, course N. 20° W.
40.10	Set a black granite stone, 18x10x10 ins., 12 ins. in the ground, for the reestablished 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.

51.05	Begin descent from bench, bears N. W. and S. E.
60.25	Fence at foot of bench, 40 ft. below top bears N. W. and S. E.
61.50	Water ditch, 8 lks. wide, 1 ft. deep, course N. 20° W.
64.85	Water ditch, 8 lks. wide, 1 ft. deep, course N. 20° W.
73.10	Fence bears N. 80° E. and S. 80° W.; leave field.
75.05	Same ditch, 10 lks. wide, 2 ft. deep, course S. 85° W.
77.80	Same ditch, 10 lks. wide, 2 ft. deep, course N. 85° W.
80.20	The reestablished cor. of secs. 23, 24, 25, and 26, heretofore described. Sand, level and gently rolling bench. Soil, clay, and sandy loam; 1st rate. No timber.

From the reestablished cor. of secs. 21, 22, 27, and 28, already described, we run South, on a random line bet. secs. 27, and 28; and 33, and 34; finding no trace of old 4 sec. or sec. cors.; and setting temp. 4 sec. and sec. cors., at intervals of 40.00 chs.; and at 161.60 chs., intersect the second Standard Parallel South, 198 lks. W. of the standard cor. of secs. 33 and 34, which is a block lava stone, 8 x 12 x 6 ins., firmly set and marked and witnessed as described by the surveyor general. The falling answers to a correction of 42' or 98 lks.

chains	
	E. per mile, and each mile will be 80.80 chs., counting from the cor. of secs. 21, 22, 27, and 28.
	Thence we run
	N. 0° 42' W., on a true resurvey line bet. secs. 33 and 34.
	Over bench land, gently descending to N. W. through scattering undergrowth.
.25	A wash, 15 lks. wide, 4 ft. deep, course N. 80° W.
40.40	Set a black granite stone, 16 x 10 x 8 ins., 11 ins. in the ground, for reestablished ¼ sec. cor., marked ¼ 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.
	Leave scattering undergrowth.
56.00	A cabin bears W. about 100 lks.
80.60	A wire fence, bears E. and W.
80.80	Set a granite stone, 24 x 18 x 9 ins., 18 ins. in the ground, for the reestablished cor. of secs. 27, 28, 33, and 34, marked with 1 notch on S. and 3 notches on E. edges; 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.
	Sand, nearly level.
	Soil, rich loam; 1st rate.
	No timber.
	Undergrowth, scattering grease woods.
	N. 0° 42' W., on a true resurvey line bet. secs. 27 and 28.
	Over nearly level land.
40.20	To point 20 lks. E. of the cor. of

chains	
	fence, bears S. and W.
40.40	Set a granite stone, 15 X 10 X 6 ins., 10 ins. in the ground, for reestablished ¼ sec. cor., marked ¼ 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.
50.00	Foot of bench bears N. 70° W. and S. 70° E.
63.00	Top of bench 40 ft. above ¼ sec. cor. bears E. and W.
80.60	Wagon road bears E. and W.
80.80	The reestablished cor. of secs. 21, 22, 27, and 28.
	Sand, level, and gently sloping bench.
	Soil, clay and sandy loam; 1st and 2nd rate.
	No timber.
	Note - We are unable to find any other original Sec. or ¼ sec. cors. within several miles of this cor.

Knowing from former connections that the line bet. secs. 25 and 26, will not close within the prescribed limits, and for the purpose of placing the corners in their original positions, we run the line bet. secs. 25 and 26, parallel to the line bet. secs. 27 and 28.

April 22, 1898; at the cor. of secs. 23, 24, 25 & 26, we set off 12° 28' N., on the decl. arc; and at 0h 3m p. m., l. m. t., observe the sun on the meridian, the resulting lat. is 39° 56' N.

Thence we run
S. 0° 42' E., on a true resurvey line bet. secs. 25 and 26.

Subdivision of T. 1 S., R. 1 W. - Continued.

Chains	
	Over cultivated ground.
9.0	Leave cultivated field, enter dense willows.
1.04	Irrigating ditch, 10 lks. wide, 6 ins. deep, course N. 80° W.
1.20	Leave willows and enter sage-brush, bears E. and W.
3.50	Foot of ridge, bears E. and W.
4.80	Top of ridge, 15 ft. high, bears E. and W.
15.60	Leave sage-brush, enter dense willows.
16.15	Water ditch, 15 lks. wide, 2 ft. deep, course N. 20° E.
17.80	Currant Creek, 30 lks. wide, course N. 20° E.
18.50	Leave dense willows, enter lucern field.
29.10	Leave lucern field. Fence on bank of ditch, 10 lks. wide, bears N. 10° E. and S. 10° W.; enter sage-brush.
30.00	Water ditch, 15 lks. wide, course N. 10° E. two houses bear W. 15 & 18 chs., respectively.
36.90	Fence bears N. 40° E. and S. 40° W.
37.50	Road from Goshen to Mona, bears N. 40° E. and S. 40° W.
40.00	Left bank of new canal, 15 lks. wide, course N. 35° E.
	Find no trace of ¼ sec. cor. Set a blue limestone, 18 x 12 x 6 ins., 12 ins. in the ground, for reestablished ¼ sec. cor., marked ¼ on W. face; dig pits, 18 x 18 x 12 ins., N. and S. of cor., 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor. end of old survey beginning of new
47.00	Foot of mountain, leave under growth; ascend mountain, bears N. E. and S. W., a house bears W. 12 chs.
52.00	Top of flat ridge, 250 ft. above foot, bears N. 80° E. and S. 80° W.
60.50	Leave top of flat ridge, bears E.

chains	
	and W.; descend abruptly.
66.00	Foot of ridge, 225 ft. below top; enter cañon, bears N. W. and S. E.
67.00	Road from Goshen, to Nephi, bears N. W. and S. E.
69.39	Currant Creek about 2.00 chs. E. of dam, course N. 50° W. 15 lks. wide; ascend
73.86	Mount Nebo Irrigation Company's flume, course N. 80° W.
79.00	Top of rocky spur, 150 ft. above creek, bears N. E. and S. W.
82.80	Intersect E. and W. line, 170 lks. N. 89° 47' W. from cor. of secs. 25 and 36.
C 46.80 / 42.50	Set a gray limestone, 24 x 12 x 8 ins., 18 ins. in the ground, for closing cor. of secs. 25 and 26, marked with C. C. on N.; 1 groove on E. and 1 groove on S. faces; and raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor. Pits impracticable.
	Note.—We destroy all marks on the cor. of secs. 25, 26, 35, and 36, which pertain to secs. 25 and 26.
	Land, mountainous and nearly level.
	Good grass for grazing.
	Soil, loam and gravelly; 1st and 3rd rate.
	No timber.
	Undergrowth, sage brush and willows.
	Mountainous land, or land covered with dense undergrowth.
	42.80 chs.—Note—In order to preserve uniformity we run the S. ½ of line bet. secs 25 and 26 on same course as N. ½, and parallel to W. bdy. of sec. 27.
	From the standard cor. of secs. 34 and 35, on S. bdy. of Tp., which is a black lava stone, 14 x 10 x 6 ins., above ground, firmly set, and marked

chains	
	and witnessed as described by the surveyor general.
	We run
	N. 0° 1' W., bet. secs. 34 and 35.
	Over mountainous land, through scattering cedar; descend.
3.25	Swale, 30 ft. below cor., course W.; ascend.
26.50	Top of rocky ridge, 120 ft. above swale, bears E. and W.; descend.
32.00	Bottom of hollow, 120 ft. below ridge, course W.; ascend.
40.00	Set a quartzite stone, 15 x 9 x 8 ins., 10 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; and raise a mound of stone, 2½ ft. base, 2 ft. high, W. of cor. Pits impracticable.
46.00	Top of ridge, 160 ft. above hollow, bears N. 40° E. and S. 80° W.; descend.
80.00	Set a quartzite stone, 18 x 10 x 6 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. edges; and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Pits impracticable.
	Sand, mountainous.
	Soil, sandy loam, and rocky; 2nd and 4th rate.
	Timber, scattering cedar.
	Good grass for grazing.
	Mountainous land, 80.00 chs.
	East, on a random line bet. secs. 26 and 35.
40.00	Set temp. ¼ sec. cor.
80.40	Intersect N. and S. line, 31 lks. N. of cor. of secs. 35 and 36.
	Thence we run

chains	
	N. 89°47' W. on a true line bet. secs. 26 and 35.
	Over mountainous land; ascend.
1.70	The closing cor. of secs. 25 and 26.
6.50	Enter heavy cedar timber, bears N. 20° E. and S. 20° W.
40.20	Set a blue limestone, 12 x 12 x 12 ins., 12 ins. in the ground, for ¼ sec. cor., marked 4 on N. face; from which A cedar, 9 ins. diam., bears N. 30° E., 12 lks. dist., marked 4 S. 26, B. T. A cedar, 14 ins. diam., bears S. 45° E., 14 lks. dist., marked 4 S. 35, B. T.
45.00	Top of high ridge, 500 ft. above sec. cor., bears N. and S.; descend.
70.00	Leave heavy cedar timber, bears N. and S.
80.40	The cor. of secs. 26, 27, 34, and 35.
	Sand, mountainous.
	Soil, rich loam and rocky; 1st and 4th rate.
	Timber, cedar.
	Good grass for grazing.
	Mountainous or heavily timbered land, 80.40 chs.
	April 22, 1898.

April 23, 1898: At 6h 58m a. m., l. m. t., we set off 39° 56' N., on the lat. arc; 12° 42' N. on the decl. arc; and determine a true meridian with the solar at the reestablished cor. of secs. 22, 23, 26, and 27, heretofore described.

Thence we run, for reasons already explained.

S. 42' E., on a true resurvey line bet.

Chains	
	secs 26 and 27.
	Over level land.
.20	Road bears E. and W.
.45	Fence bears E. and W.; enter field.
19.57	Fence bears E. and W.; enter cultivated land.
35.00	Enter orchard, bears E. and W.
39.65	Leave orchard at fence, bears E. and W.
40.00	Set a blue limestone, 20×12×8 ins., 15 ins. in ground, for reestablished ¼ sec. cor., marked ¼ 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. End of old survey, beginning of new.
56.00	Corral and sheds, 100 lks through bears E. and W.; Leave cultivated land.
59.00	James Gardiner's house, bears W. about 150 lks. dist.
59.50	Fence, bears E. and W.
61.50	Mount Nebo Irrigation Company's Canal, 20 lks wide, 5 ft deep, course W.
68.75	Foot of mountain, bears N. E. and S. W.; ascend.
81.70	Intersect E. and W. line, 130 lks. W. of the cor. of secs. 34 and 35.
40 12.95 28.75	Set a limestone, 15×8×8 ins., 10 ins. in the ground, for closing cor. of secs. 26 and 27, marked with C.C. on N.; 1 groove on S.; and 2 grooves on E. faces; and raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor. Pits impracticable
	Note.- We destroy all marks on the cor. of secs. 26, 27, 34, and 35, which pertain to secs. 26 and 27.
	Land level and mountainous
	Soil, clay loam and gravelly.

Chains. 1st and 3rd rate.

No timber.

Mountainous land 12.95 chs.

April 23, 1898: At the noon hour, the sky is overcast, and solar observations impossible. Note.- In order to preserve uniformity, we run the S. ½ of line bet. secs. 26 and 27, on same course as N. ½, and parallel to W. bdy. of sec. 27.

From the reestablished cor. of secs. 27, 28, 33, and 34, already described, the corner of secs 34 and 35, is plainly visible, and we can see that the line bet. secs. 27 and 34 will not intersect within limits, therefore we run

East on a true line bet. secs. 27 and 34.

Over gently ascending ground.

.20 Road bears N. and S.

.30 The cor. of a fence is S. 30 lks., fence bears S. and E.

20.00 Corner of a fence, 30 lks. S., bears S. and W.

40.00 Find no trace of old ¼ sec. cor. Set a white flint stone 20 x 12 x 6 ins., 15 ins. in the ground for reestablished 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.

56.00 Corner of a fence, 80 lks. N., bears N. and E.

61.50 Mount Nebo Irrigation Company's Canal, 25 lks wide, 5 ft. deep, course S.W. Foot of mountain bears N. E. and S. W.; ascend.

68.00 Find no trace of old foot of mountain cor.

80.20 Intersect N. and S. line, 120 lks. N. 42° W. of the closing cor. of secs. 26 and 27.

C 40 1870
H 2150

Set a limestone 18 x 8 x 8 ins. 12 ins.

Chains	
	in the ground, for closing cor. of secs. 27 and 34, marked C. C. on W.; with 1 groove on S. and 2 grooves on E. faces; and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Pits impractible.
	Note.- We destroy all marks on the closing cor. of secs. 26 and 27 and remark same as S. W. cor. of Sec. 26.
	Sand, level and mountainous.
	Soil, rich loam and gravelly; 1st and 3rd rate.
	No timber.
	Mountainous land 18.70 chs.
	Note.- From the closing just made, we are led to believe that discripances exist in the Second Standard Parallel South, therefore we proceed as follows:
	From the Standard cor. of secs. 35 and 36, heretofore described, we run
	West, on a retracement line along the S. bdy. of sec. 35.
40.50	The Standard 1/4 sec. cor. which is a hard sandstone, 6 x 18 x 6 ins., above ground, firmly set, and marked and witnissed as described by the surveyor general.
80.50	The Standard cor. of secs. 34 and 35, which is a black lava stone, 6 x 14 x 10 ins., above ground firmly set, and marked and witnissed as described by the surveyor general.

Chains	
	West, on a retracement line along the S. bdy. of sec. 34.
40.25	The Standard ¼ sec. cor. which is a lava stone, 6 x 10 x 6 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general.
c 80.50	The Standard cor. of secs. 33 and 34, heretofore described.
	Note.- On account of finding Sec. 25 will not close within limits according to the old returns of the N. and E. bdys. of said sec. We deem it necessary, after testing the correctness of our own work, to retrace said lines, and proceed as follows: From the reestablished cor. of secs. 23, 24, 25, and 26 already described we run
	East on a retracement line bet. secs. 24 and 25.
40.00	Find no trace of old ¼ sec. cor. after diligent search.
c 86.96	The cor. of secs. 19, 24, 25 and 30, which is a post in old mound, marked and witnessed as described by the surveyor general bears S. 266 lks. dist.
	We destroy all traces of the old cor. and reestablish it at the same point as follows: Set a limestone, 15 x 6 x 6 ins., 9 ins. in the ground, for cor. of secs. 19, 24, 25, and 30, marked with 4 notches on N. and 2 notches

Chains	
	on S. edges; 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. The course of this line is therefore S. 88° 15' E., the distance 87.00 chs.
	From the reestablished cor. of secs. 19, 24, 25 and 30. We run South on a retracement line bet. secs. 25 and 30.
40.00	The ¼ sec. cor., which is a limestone 16 x 12 x 6 ins., on top of ground, and marked and witnessed as described by the surveyor general, bears West 65 lks. dist.. We reset it at same point and rebuild mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
79.99	The cor. of secs. 25, 30, 31, and 36 bears W. 130 lks. dist., cor. is described heretofore. The course of this line is therefore S. 0° 36' W., and the distance 80.00 chs. April 23, 1898.
	Note.- Before reestablishing the old lines in the subdivisions of this township, upon which to close our survey, we made a thorough search by enquiry of old settlers, and by retracing the old lines within a radius of several miles of our

work, but were absolutely unable to find trace of any of the original corners, within the boundaries of the township except those shown in the notes, viz. - The cor. of secs 23, 24, 25, and 26, and 21, 22, 27 and 28 which are, and have been for many years recognized by the settlers, and according to the best information we could obtain are in their original positions.

We also found the Standard cor. of secs. 3, 4, 33, and 34 on S. bdy. of Tp., and the old lines in this township were based on true lines at proportional distances, between the corners found as is given in the field notes and plat thereof

General Description.

This fractional township contains a variety of land, mountains, canons, benches and hollows, and the soil ranges from loam to rocky mountain peaks. The soil in the mouth of Little Salt Creek Canon, and on the benches, is generally rich loam, capable of producing good crops of rye, and winter wheat, without irrigation; excellent fruits and vegetables

have been raised.
The soil of the remaining portion of the township, except the mountain peaks and some of the ridges, can be classed as 2nd rate, is covered with an abundant growth of rich and nutritious grasses, and is well adapted for grazing.
Cedar timber is found in secs. 34, 35, and 36.
The land capable of being cultivated in secs. 25, 26, 34, and 35, can nearly all be watered from Mt. Nebo Co's. canal, which conveys water through those secs. from Currant Creek.
James Gardner's D. E. No. 4300, in sec. 27, is all fenced and highly cultivated as orchard and garden, and is irrigated from Mt. Nebo Co's. canal
Gardner is living on his claim, and his improvements are worth about $500.00
E. Peyton's D.E. 4316, has not been improved; he is not living in the neighborhood of the land.
Kenp Knickle's D. E. No. 4367 has not been improved.
Charles Partridge has a twenty years adverse possession claim embracing the N. ½ of S. E. ¼ of sec. 26, about ⅔ of which is fenced, and part of it has been cultivated for more than 30 years. He has a house on his claim, and his improvements are worth about $250.00

Currant Creek, a stream, about 20 lks wide, 2 ft. deep, runs through secs. 25, 26, and 36, and is used to irrigate parts of those secs.

There are no indications of mineral in this fractional township.

Scott P. Stewart
~~Andrew J. Stewart Jr.~~
U. S. Deputy Surveyors.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by .....

....., United States Deputy Surveyor, to assist in running, measuring, and

ring the lines and corners described in the foregoing field notes of the survey of .....

.....

ing the respective capacities in which they acted:

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

....., United States Deputy Surveyor, in surveying all

parts or portions of the .....

.....

.....

..... of the .....

..... meridian, ... of ....., which are represented

e 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 r monuments established, according to the instructions furnished by the United States Surveyor

ral for .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

cribed and sworn to before me this .....
ay of ....., 189

SEAL

.....

.....

61

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR

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PAGE

4—679.

BOOK A-257

.S.B.

FIELD NOTES

OF THE SURVEY OF THE

North and South Boundaries

of

Township 13 South, Range 2 West.

Of the Salt Lake Base and Meridian,

Utah.

AS SURVEYED BY

[illegible] Andrew J. Stewart Jr., United States Deputy Surveyors

der ~~his~~ Contract No. 217, dated November 1st, 1897.

rvey commenced April 25th, 1898.

rvey completed April 27th, 1898.

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N. Bdry.	high	1-46-20
" "	chng.	58-50
S. Bdry.	high	7-20-30
" "	chng.	55-25
Retracement E. Bdry.		5-14-65

NAMES AND DUTIES OF ASSISTANTS.

John R. Stewart, Chainman,
Daniel H. Y. Mc. Allister, Chainman.
William W. Richardson Jr. Chainman.
Alma Betts, Chainman.
Antone P. Stewart, Moundman.
Peter S. Sorensen, Moundman.
Benjamin F. Stewart, Axman.
Quinby Stewart, Flagman.

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Volume
#
R0257

BOOK A-257

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25. 12	19	20	21	22	23	24
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PRELIMINARY OATHS OF ASSISTANTS.

WE, John R. Stewart, Daniel H. Y. McAllister, ~~and~~ William W. Richardson Jr. and Alma Betts, 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 N. and S. bdys. of T. 13 S., R. 2 W.; the W. and S. bdys. of T. 14 S., R. 1 W.; the W. bdy. of T. 15 S., R. 1 W.; the N., S., and W. bdys. of T. 17 S., R. 1 W.; the N. and E. bdys. of T. 18 S., R. 1 E.; the N. and W. bdys. of T. 17 S., R. 2 E.; the N. and E. bdys. of T. 17 S., R. 1 E.; the W. bdy. of T. 16 S., R. 2 E.; and the E. bdy. of T. 16 S., R. 1 E. of the Salt Lake Base and Meridian, Utah.

John R. Stewart, Chainman.

Daniel H. Y. McAllister, Chainman.

William W. Richardson Jr. Chainman.

Alma Betts Chainman.

Subscribed and sworn to before me this 20th day of April, 1898

SEAL

Shadrach M. Richardson
Justice of the Peace
Benjamin Utah Co

WE, Antone P. Stewart and Peter S. Sorensen, 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 N. and S. bdys. of T. 13 S., R. 2 W.; the W. and S. bdys. of T. 14 S., R. 1 W.; the W. bdy. of T. 15 S., R. 1 W.; the N., S., and W. bdys. of T. 17 S., R. 1 W.; the N. and E. bdys. of T. 18 S., R. 1 E.; the N. and W. bdys. of T. 17 S., R. 2 E.; the N. and E. bdys. of T. 17 S., R. 1 E.; the W. bdy. of T. 16 S., R. 2 E.; and the E. bdy. of T. 16 S., R. 1 E., of the Salt Lake Base and Meridian, Utah.

Antone P. Stewart, Moundman.

Peter S. Sorensen, Moundman.

Subscribed and sworn to before me this 20th day of April, 1898

SEAL

Shadrach M. Richardson
Justice of the Peace
Benjamin Utah Co

~~WE~~, I, Benjamin F. Stewart, ~~and~~ do solemnly swear that ~~we~~ I will well and truly perform the duties of axmen 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 N. and S. bdys. of T. 13 S., R. 2 W.; the W. and S. bdys. of T. 14 S., R. 1 W.; the W. bdy. of T. 15 S., R. 1 W.; the N., S., and W. bdys. of T. 17 S., R. 1 W.; the N. and E. bdys. of T. 18 S., R. 1 E.; the N. and W. bdys. of T. 17 S., R. 2 E., the N. and E. bdys. of T. 17 S., R. 1 E.; the W. bdy. of T. 16 S., R. 2 E.; and the E. bdy. of T. 16 S., R. 1 E., of the Salt Lake Base and Meridian, Utah.

Benjamin F. Stewart, Axman.

_____, Axman.

Subscribed and sworn to before me this 20th day of April, 1898

SEAL

Shadrach M. Richardson
Justice of the Peace
Benjamin Utah Co

I, Quinby Stewart, 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 N. and S. bdys. of T. 13 S., R. 2 W.; the W. and S. bdys. of T. 14 S., R. 1 W.; the W. bdy. of T. 15 S., R. 1 W.; the N., S., and W. bdys. of T. 17 S., R. 1 W.; the N. and E. bdys. of T. 18 S., R. 1 E.; the N. and W. bdys. of T. 17 S., R. 2 E., the N. and E. bdys. of T. 17 S., R. 1 E.; the W. bdy. of T. 16 S., R. 2 E.; and the E. bdy. of T. 16 S., R. 1 E., of the Salt Lake Base and Meridian, Utah.

Quinby Stewart, Flagman.

Subscribed and sworn to before me this 20th day of April, 1898

SEAL

Shadrach M. Richardson
Justice of the Peace
Benjamin Utah Co

6—151

North boundary of T. 13 S., R. 2 W. —

Chains	
	Survey commenced April 25, 1898, and executed with a W. and L. E. Gurley light mountain transit No. *, 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; And a Buff and Berger transit No. 2511, the horizontal limb is provided with two double verniers reading to single minutes of arc. The instruments were examined, tested on the true meridian at Salt Lake City, found correct, and were approved by the surveyor general for Utah; the former on December 4, 1897, and the latter on April 5, 1898. We examine the adjustments of the instruments, and correct the level and collimation errors; then to test the solar apparatus, of the Gurley instrument, by comparing its indications resulting from solar observations, made during p. m. and a. m. hours, with a true meridian determined by observations on Polaris, we proceed as follows: Cut the ‡ sec. cor. bet. secs. 6 and 31, on North boundary of T. 13 S., R. 2 W., latitude 39° 43′ N., longitude 112° 07′ W.; we set off 39° 43′ N., on the lat. arc, 13° 8′ N., on the decl. arc; and at $4^h\ 4^m$ p. m., l. m. t., determine with the solar, of the Gurley instrument, a true meridian and mark a point thereof on a stone firmly set in the ground, 5 chs. N. of the cor. April 24, 1898.

Chains	
	April 25, 1898: At 5h 15m a. m., by our watches which are 3m 49s fast of l. m. t., we observed Polaris at eastern elongation, with the Buff and Berger instrument, in accordance with the Manual of Instructions, and mark a point in the line thus determined on a plug driven in the ground, 5 chs. N. of our station.
	At 6h 28m a. m., l. m. t., we lay off the azimuth of Polaris 1°36'.8 to the west, on the Buff and Berger instrument, and mark the True Meridian thus determined, by cutting a small groove in the stone set April 24, on which the true meridian falls 0.35" east of the mark determined by the solar, of the Gurley instrument.
	At 6h 32m a. m., l. m. t., we lay off the azimuth of Polaris 1°36'.8 to the west, on the Gurley instrument, and mark the True Meridian thus determined by cutting a small groove in the stone set April 24, on which the true meridian falls 0.35 ins. east of the mark determined by the solar.
	At 7h 3m a. m., l. m. t., we set off 39°43' N., on the lat. arc; 13°20' N., on the decl. arc; and mark a point in the true meridian determined with the solar, of the Gurley instrument, by a cross on the stone already set 5 chs. N. of our station; this mark falls 0.28 ins. east of the true meridian established by Polaris observation.
	The solar apparatus of the Gurley instrument, by p. m. and a. m. observations, defines positions for the true meridian, respectively about 0'18" west and 0'15" east of the meridian established by Polaris

Chains	
	observations, therefore we conclude that the adjustments of the instruments are satisfactory. The magnetic bearing of the true meridian, at 7h 40m a. m., l. m. t., is N. 16°35′ W.; the angle thus determined reduced by the table page 100, gives the mean mag. decl. 16°31′ E.
	From the ¼ sec. cor. bet. secs. 6 and 31; which is a sandstone, 12 x 10 x 7 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general; Thence we run
	West, on a true line bet. secs. 6 and 31. Over mountainous land; ascend.
10.00	Enter scattering cedar timber, bears N. and S.
43.50	Top of dividing ridge bet. Tintic and Feiner valleys, 500 ft. above ¼ sec. cor., bears N. and S.; descend into Tintic valley.
12.62.0	Intersect E. bdy. of Tp. 13 S., R. 3 W., 68.50 chs. S. of the cor. of Tps. 12 and 13 S., R. 3 W., which is a limestone, 11 x 11 x 6 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general. (We destroy all marks on said cor. pertaining to Tps. 12 and 13 S., R. 2 W.) Set a blue limestone, 18 x 12 x 8 ins., 12 ins. in the ground, for closing cor. of Tps. 12 and 13 S., R. 2 W., marked with C.C. 2 W. on E., 12 S. on N., 13 S. on S., and 6 grooves on N., E., and S. faces; and raise a mound of stone, 3 ft. base, 3 ft. high, E. of cor. Pits impracticable. Land, mountainous. Soil, sandy loam and gravelly; 2nd

North boundary of T. 13 S., R 2 W.—

Chains and 3rd rate.
Timber, cedar.
Undergrowth, sage brush.
Good grass for grazing.
Mountainous or heavily timbered land, 126.20 chs.
April 25, 1898: At this corner, we set off 13°24'N., on the decl. arc; and at 0h 4m p. m., l. m. t., observe the sun on the meridian, the resulting lat. is 39°43'N.
April 25, 1898.

April 26, 1898: At 7h 3m a. m., l. m. t., we set off 39°38'N., on the lat. arc, 13°40'N., on the decl. arc, and determine a true meridian with the solar, at the cor. of Tps. 13 and 14 S., Rs. 1 and 2 W., which is a sandstone, 8 x 10 x 7 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
Thence we run
West, on a true line along S. bdy. of Tp., bet. secs. 1 and 36.
Over rolling ground, through dense sage brush.

40.00 Set a quartzite stone, 18 x 10 x 8 ins., 12 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.

55.00 Enter scattering cedar timber, bears N. and S.

80.00 Set a quartzite stone, 18 x 10 x 6 ins., 12 ins. in the ground, for cor. of secs. 1, 2, 35, and 36, marked with 1 notch on E., and 5 notches on W. edges; dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft.

Chains	
	dist.; and raise a mound of stone covered with earth, 4 ft. base, 2 ft. high, W. of cor. Land, rolling. Soil, sandy and gravelly loam; 2nd rate. Timber, scattering cedar. Undergrowth, sage brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 60.00 chs.
	West, bet. secs. 2 and 35. Over rolling ground, through dense sage-brush undergrowth.
35.00	Wood road, bears N. and S. 80° E.
40.00	Set a quartzite stone, 17 x 9 x 6 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which C cedar, 8 ins. diam., bears S. 60° W., 220 lks. dist., marked ¼ S. 2, 13. T. No other trees within limits; dig pits, 18 x 18 x 12 ins., E. and W. of stone, 3 ft. dist.; and raise a mound of stone covered with earth, 3½ ft. base, 1½ ft. high, N. of cor.
80.00	Set a quartzite stone, 18 x 10 x 6 ins., 12 ins. in the ground, for cor. of secs. 2, 3, 34, and 35, marked with 2 notches on E. and 4 notches on W. edges; dig pits, 18 x 18 x 12 ins., in each sec. 5½ ft. dist.; and raise a mound of stone covered with earth, 4 ft. base, 2 ft. high, W. of cor. Land, nearly level. Soil, sandy loam; 2nd rate. No timber.

Chains	
	undergrowth, sage brush. Good grass for grazing. Land covered with dense undergrowth, 80.00 chs.
	West, bet. secs. 3 and 34. Over mountainous land, through scattering cedar timber.
23.80	Wash, 20 lks. wide, 4 ft. deep, course N. 20° W.; leave cedar timber, bears N. 20° W. and S. 20° E.; ascend.
40.00	Set a trachyte stone, 14 x 12 x 6 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, N. of cor. Pits impracticable.
44.00	Enter cedar timber, bears N. and S.
61.00	Top of ridge, 150 ft. above ¼ sec. cor., bears N. 30° W. and S. 30° E.; descend.
67.50	Bottom of hollow, 50 ft. below ridge, course N. 5° W.; ascend.
73.00	Top of spur, 20 ft. above hollow, bears N. and S.; descend.
77.00	Wash, 3 lks. wide, 1 ft. deep, course N. E.; ascend.
80.00	Set a trachyte stone, 18 x 12 x 6 ins. 12 ins. in the ground, for cor. of secs. 3, 4, 33, and 34, marked with 3 notches on E. and W. edges; from which A cedar, 5 ins. diam., bears N. 40° W., 135 lks. dist., marked T. 13 S., R. 2 W., S. 33 13 T. A cedar, 6 ins. diam., bears S. 80° W., 125 lks. dist., marked T. 14 S., R. 2 W., S. 4 13 T. No other trees within limits; dig pits, 18 x 18 x 12 ins., in secs. 3 and 34, 5½ ft. dist.; and raise a mound

Chains	
	of stone covered with earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, mountainous.
	Soil, sandy loam, 2nd rate.
	Timber, cedar.
	Good grass for grazing.
	Mountainous or heavily timbered land, 80.00 chs.
	April 26, 1898: At this corner, we set off 13°43′ N., on the decl. arc; and at 0h 3m p.m., l. m. t., observe the sun on the meridian, the resulting lat. is 39°38′ N.
	West, bet. secs. 4 and 33.
	Over mountainous land, through heavy cedar timber; ascend.
4.00	Top of ridge, 30 ft. above sec. cor., bears N. and S.; descend.
15.00	Leave heavy cedar timber, bears N. 10° E. and S. 10° W.
22.00	Wash, 10 lks. wide, 3 ft. deep, course N. 20° E.; ascend.
38.75	Wagon road, leading to Nephi, bears N. E. and S.
40.00	Set a trachyte stone, 14 x 8 x 6 ins., 9 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.
44.00	Top of spur, 30 ft. above ¼ sec. cor., bears N. and S.; descend.
62.50	Bottom of hollow, 30 ft. below ridge, course N.; ascend.
68.00	Top of ridge, 25 ft. above hollow, bears N. and S.; descend.
77.50	Hollow, 20 ft. below ridge, course N.

Chains	
	ascend.
80.00	Set a trachyte stone, 26 X 18 X 6 ins., 19 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; from which A cedar, 5 ins. diam., bears S. 20° E. 55 lks. dist., marked T. 14 S., R. 2 W., S. 4 B.T. A cedar, 6 ins. diam., bears S. 70° W. 170 lks. dist., marked T. 14 S., R. 2 W., S. 5 B.T. No other trees within limits; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. Land, rolling mountain. Soil, sandy and gravelly loam; 2nd rate. Timber, cedar. Good grass for grazing. Mountainous or heavily timbered land 80.00 chs.
	West, bet. secs. 5 and 32 Over mountainous land, through dense sage brush, and scattering cedar timber; ascend.
2.00	A cedar, 3 ins. diam., on line, no mark with 2 notches on E. and W. sides.
8.50	Top of ridge, 40 ft. above sec. cor., bears N. E. and S. W.; descend.
11.00	Bottom of hollow, 30 ft. below ridge, course N. 30° E.; ascend.
20.78	Top of ridge, 125 ft. above hollow, bears N.E. and S.W.; descend.
25.50	Bottom of hollow, 80 ft. below ridge, course N. W.; ascend.

Chains	
32.50	Top of ridge, 50 ft. above hollow, descends N.; descend.
37.00	Bottom of hollow, 30 ft. below ridge, course N.; ascend.
40.00	Set a granite stone, 14x10x6 ins., 9 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which A cedar, 6 ins. diam., bears N. 65° 30' W., 52 lks. dist., marked ¼ S. 32, B.T. A cedar, 3 ins. diam., bears S. 55° E., 127 lks. dist., marked ¼ S. 5, B.T.
44.50	Top of spur, 50 ft. above hollow, bears N. 20° W. and S. 20° E.; descend.
49.00	Bottom of hollow, 40 ft. below ridge, course N. 15° E.; ascend.
53.00	Top of ridge, 30 ft. above hollow, bears N. W. about 5.00 chs, thence N. 30° E.; descend.
70.10	Wash, 20 lks. wide, 5 ft. deep, course N. W.; ascend.
80.00	Set a quartzite stone, 16x10x8 ins., 11 ins. in the ground, for cor. of secs. 5, 6, 31, and 32, marked with 5 notches on E. and 1 notch on W. edges; from which A cedar, 6 ins. diam., bears S. 82° 30' E., 210 lks. dist., marked T. 14 S., R. 2 W., S. 5, B.T. No other trees within limits; raise a mound of stone, 2 ft. base, 2 ft. high, W. of cor. Pits impracticable. Land, rolling mountain. Soil, sandy and gravelly loam; 2nd rate. Timber, cedar. Undergrowth, sage brush.

Chains	
	Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 80.00 chs.
	West, bet. secs. 6 and 31. Over mountainous land, through dense undergrowth; ascend.
5.00	Top of spur, 20 ft. above cor., bears N. W. and S. E.; descend.
12.50	Wash 10 lks. wide, 4 ft. deep, course N. W.; Enter scattering cedar timber.
40.00	Set a trachyte stone, 16x10x6 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which Cr cedar, 3 ins. diam., bears N. 12° 30' W. 240 lks. dist., marked ¼ S. 31, B.T. Cr cedar, 4 ins. diam., bears S. 32° 30' W., 175 lks. dist., marked ¼ S. 6, B.T.
40.25	Wash, 3 lks. wide, 1 ft. deep, in hollow, 30 ft. below ¼ sec. cor., course N. 80° W.
56.50	Same wash, 8 lks. wide, 2 ft. deep, course S. 75° W.; ascend.
75.00	Top of ridge 25 ft. above wash, bears and descends W.; descend.
84.75	Foot of descent.
86.50	Same wash as crossed at 56.50 chs, 30 lks. wide, 5 ft. deep, course N. 65° W.
89.50	Trail, bears S. 80° E. and N. 80° W.; ascend.
97.00	Top of spur, 30 ft. above wash, bears N. W. and S. E.; descend.
122.00	Foot of mountain, bears N. E. and S. W.; Enter Tintic valley. leave cedars
127.70	Wagon road from Lemington to Nephi, bears N. E. and S. W.

South boundary of T. 13 S., R. 2 W.— Concluded.

Chains	
155.50	Wash, 20 lks. wide, 3 ft. deep, course S 20° W
163.00	Wash, 20 lks. wide, 5 ft. deep, course S.
167.15	Wash, 25 lks. wide, 10 ft. deep, course S.
171.65	Wagon road from Lemington to Eureka, bears N. and S.
175.50	East branch of main wash in T. intic valley, 40 lks. wide, 4 ft. deep, course S.
180.60	Intersect E. bdy. of T. 14 S., R. 3 W., 58.25 chs. S. of the closing cor. of T. 14 S., Rs. 2 and 3 W., which is a granite stone, 12 x 10 x 6 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general; this cor. is 14.45 chs. W. of the cor. of T. 13 S., Rs. 2 and 3 W., which is a granite stone, 12 x 12 x 5 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general. Note: We destroy all marks on these corners pertaining to Tps. 13 and 14 S., R. 2 W. Set a blue limestone, 15 x 8 x 6 ins., 10 ins. in the ground, for closing cor. of Tps. 13 and 14 S., R. 2 W., marked with C.C. 2 W. on E., 13 S. on N., 14 S. on S., and 6 grooves on N. E. and S. faces; and raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. Pits impracticable. Land, mountainous and nearly level. Soil, sandy and clay loam; 2nd rate. Timber, Cedar. Undergrowth, sage brush. Good grass for grazing. Mountainous land, or land covered with dense under growth, 180.60 chs.

April 26, 1898.

Retracement of the E. bdy. of T. 13 S., R. 3 W.

Chains	Note: In comparing the closing of the N. bdy. of this Tp. on the E. bdy. of T. 13 S., R. 3 W.; with the closing of the S. bdy. of this Tp. on the E. bdy. of T. 14 S., R 3 W., we are led to believe that there is a discrepancy in the E. bdy. of T. 13 S., R. 3 W., therefore we proceed to retrace said boundary as follows: April 27, 1898: At 6h 55m a. m., l. m. t., we set off 39°38' N., on the lat. arc; 13° 59' N., on the decl. arc; and determine a true meridian with the solar, at the S. E. cor. of Tp. 13 S., R. 3 W., heretofore described.
	Thence we run
	North, on a retracement line, along the E. bdy. of T. 13 S., R. 3 W.; along E. side of sec. 36.
40.38	The ≠ sec. cor. on E. side of sec. 36, which is a limestone, 10 x 6 x 3 ins., above ground, firmly set, and marked and witnessed as described by the surveyor-general. To perpetuate the cor., we 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.
80.80	The cor. of secs. 25, 30, 31, and 36, which is a limestone, 12 x 8 x 5 ins., above ground, firmly set, and marked and witnessed as described by the surveyor-general. To perpetuate the cor., we dig pits, 18 x 18 x 12 ins., in secs. 25 and 36, 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	North, on a retracement line, along E. side of sec. 25.
40.45	The ≠ sec. cor. on E. side of sec. 25,

Chains	
	which is a limestone, 10 x 9 x 6 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general. To perpetuate the cor., we 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.
80.75	The cor. of secs. 24 and 25, which is a limestone, 12 x 10 x 5 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general. To perpetuate the cor., we dig pits, 18 x 18 x 12 ins., in secs. 24 and 25, 5½ ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
	North, on a retracement line, along E. side of sec. 24.
40.25	The ¼ sec. cor. on E. side of sec. 24, which is a limestone, 14 x 8 x 6 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general, To perpetuate the cor., we 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.
80.66	The cor. of secs. 13 and 24, which is a granite stone, 14 x 12 x 5 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general. To perpetuate the cor., we dig pits, 18 x 18 x 12 ins., in secs. 13 and 24, 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Chains	
	North, on a retracement line, along the E. side of sec. 13.
40.40	The ¼ sec. cor. on E. side of sec. 13, which is a limestone 10 x 6 x 5 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general. To perpetuate the cor., we 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.
80.54	The cor. of secs. 12, and 13, which is a limestone, 10 x 8 x 4 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general. To perpetuate the cor., we dig pits, 18 x 18 x 12 ins., in secs. 12 and 13, 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

	North, on a retracement line, along E. side of sec. 12.
40.20	The ¼ sec. cor., on E. side of sec. 12, which is a limestone, 10 x 8 x 4 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general. To perpetuate the cor., we 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.
80.40	The cor. of secs. 1 and 12, which is a limestone, 16 x 11 x 6 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general.

Retracement of the E. bdy. of T. 13 S., R. 3 W.-Concluded.

Chains

North, on a retracement line, along E. side of sec. 1.

11.50 The closing cor. of Tps. 12 and 13 S., R. 2 W., heretofore described.

April 27, 1898.

Boundaries of T. 13 S., R. 2 W.

Latitudes, Departures, and closing errors.

Line designated	True bearing	distance	Latitudes N.	Latitudes S.	Departures E.	Departures W.
		chs.	chs.	chs.	chs.	chs.
S. bdy. T. 13 S., R. 2 W.	West	580.60				580.60
W. bdy. T. 13 S., R. 2 W.	North	472.90	472.90			
W. bdy. T. 13 S., R. 2 W.	East	14.15			14.15	
N. bdy. T. 13 S., R. 2 W.	East	566.20			566.20	
E. bdy. T. 13 S., R. 2 W.	South	474.75		474.75		
Convergency					.68	
Totals			472.90	474.75 472.90	581.23 580.60	580.60
Error in lat.				1.45		
Error in dep.					.73	

This township is mountainous in the western, southern, and central parts; the remainder is low, rolling, hills, and valleys. The township is well timbered, and well adapted for sheep grazing, and dry farming. There is no water in the township. The township should be subdivided.

Scott P. Stewart.
Andrew J. Stewart Jr.
U. S. Deputy Surveyors.

April 27, 1898.

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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 .....

....., United States Deputy Surveyor, to assist in running, measuring, and

king the lines and corners described in the foregoing field notes of the survey of .....

.....

ving the respective capacities in which they acted:

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

....., United States Deputy Surveyor, in surveying all

parts or portions of the .....

.....

.....

..... of the .....

..... meridian, ... of ....., which are represented

e 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

r monuments established, according to the instructions furnished by the United States Surveyor

ral for .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

ribed and sworn to before me this .....

ay of ....., 189

SEAL

.....

.....

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ANK

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..., United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from ..... United States Surveyor General for ....., bearing date of the ..... day of ....., 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 Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

.....

.....

.....

..... of the .....

..... meridian, in the ..... of ....., 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 ..... 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.

.....
United States Deputy Surveyor.

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

SEAL

.....

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City Utah, June 23 1900, ~~189~~

The foregoing field notes of the survey of the North & South Boundaries of Township 13 South Range 2 West of the Salt Lake Base & Meridian Utah

executed by Scott P. Stewart and Andrew J. Stewart Jr.
under ~~his~~ their contract No. 207, dated November 1st, 1897, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Jacob B. Blair
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.

BOOK A-257

FIELD NOTES

OF THE SURVEY OF THE

Subdivisions

of

Township 13 South, Range 1 West.

Of the Salt Lake Base and Meridian,

Utah.

AS SURVEYED BY

Pleasant Andrew J. [illegible] *United States Deputy Surveyor,*

r ~~*his*~~ their *Contract No.* 217, *dated* [illegible], *189*

y commenced April 27th, *189*

y completed May 10th, *189*

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NAMES AND DUTIES OF ASSISTANTS.

John P. Stewart, Chainman.

Daniel St. Y. Mc. Allister, Chainman.

William W. Richardson, Jr. Chainman.

Alma Betts, Chainman.

Antone P. Stewart, Moundman.

Peter S. Sorensen, Moundman.

Benjamin F. Stewart, Axman.

Quinby Stewart, Flagman.

In preliminary affidavits see Book "A"

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BOOK A-257

INDEX DIAGRAM.

Township 13 SOUTH, *Range* 2 WEST

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Meanders Page

C—151

PRELIMINARY OATHS OF ASSISTANTS.

WE, ...and.....
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

.....

.....*Chainman.*

.....*Chainman.*

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 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, ..., 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 .....

.....*Flagman.*

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

SEAL

.....

.....

6—151

Subdivision of T. 13 S., R. 2 W. -

Chains | Survey commenced April 27, 1898, and executed with a W. and S. E. Gurley light mountain transit, No. *, with solar attachment. The horizontal limb being 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; And a Buff and Berger transit No. 2511, the horizontal limb being provided with two double verniers reading to single minutes of arc.
The instruments were examined, tested on the true meridian at Salt Lake City, found correct, and were approved by the surveyor general for Utah, the former on December 4, 1897, and the latter on April 5, 1898.
We examined the adjustments of the instruments, and corrected the level and collimation errors; then to test the solar apparatus, of the Gurley instrument, by comparing its indications, resulting from solar observations made during a. m. and p. m. hours, with a true meridian determined by observation on Polaris, we proceeded as follows:
At the cor. of secs. 1, 2, 35, and 36, latitude 39° 38' N., longitude 112° 01' W.; we set off 39° 38' N., on the lat. arc; 14° 6' N., on the decl. arc; and at 14h 33m p. m., l. m. t., determined a true meridian with the Solar, of the Gurley instrument, and mark a point thereof, on a stone

Chains

firmly set in the ground, 5 chs. N. of the cor.

April 27, 1898.

April 28, 1898: At 5h 3m a. m., by our watch which is 3m 36.6s fast of l. m. t., we observe Polaris at eastern elongation with the Buff and Berger instrument in accordance with the Manual of Instructions, and mark a point in the line thus determined, on a plug driven in the ground, 5 chs. N. of our station.

At 6h 34m a. m., l. m. t., we lay off the azimuth of Polaris 1°36'.8 to the west, on the Buff and Berger instrument, and mark the True Meridian thus determined, by cutting a small groove on the stone set April 27, on which the true meridian falls 0.4 ins. east of the mark determined by the solar.

At 7h 2m a. m., l. m. t., we set off 39° 38' N. on the lat. arc; 14°18' N., on the decl. arc; and mark a point in the true meridian determined with the solar, of the Gurley instrument, by a cross on the stone already set 5 chs. N. of our station; this mark falls 0.3 ins. east of the true meridian established by Polaris observation.

The solar apparatus of the Gurley instrument by p. m. and a. m. observations, defines positions for true meridians, respectively about 0'21" west, and 0'16" east of the meridian established by the Polaris observations, therefore we conclude that the adjustments of

Chains	
	the instruments are satisfactory. The magnetic bearing of the true meridian, at 7h 31m a. m. is N. 16°35' W., the angle thus determined, reduced by the table page 100, gives the mean mag. decl. 16°31' E.
	From the cor. of secs. 1, 2, 35, and 36, established by ourselves April 26, 1898, we run
	N. 0°1' W. bet. secs. 35 and 36.
	Over gradually ascending ground, through dense undergrowth.
35.00	Enter scattering cedar timber, bears E. and W.
40.00	Set a lime stone, 16x8x8 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; from which
	A cedar, 8 ins. diam., bears N. 16° E., 52 lks. dist., marked ¼ S. 36, B.T.
	A cedar, 7 ins. diam., bears S. 10° W., 60 lks. dist., marked ¼ S. 35, B.T.
73.50	Top of ridge, 150 ft. above sec. cor., bears E. and W.; descend.
80.00	Set a quartzite stone, 16x9x8 ins. 11 ins. in the ground, for cor. of secs. 25, 26, 35, and 36, marked with 1 notch 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.
	Land, mountainous and nearly level.
	Soil, sandy and gravelly loam; 2nd rate.
	Timber, cedar.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 8.00 chs.

Subdivision of T. 13 S., R. 2 W.- Continued.

Chains	
	East, on a random line, bet. secs. 25 and 36.
40.00	Set temp. ¼ sec. cor.
79.90	Intersect E. bdy. of Tp. at the cor. of secs. 25, 30, 31, and 36, which is a trachyte stone, 12 x 8 x 5 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general.
	Thence we run
	West, on a true line bet. secs. 25 and 36.
	Over mountainous land, through dense undergrowth.; ascend.
1.90	Enter heavy cedar timber, bears N. and S.
16.90	Top of ridge, 100 ft. above sec. cor., bears N. E. and S. W.; descend.
24.90	Leave heavy cedar timber, bears N. and S.
35.90	Wood road, bears N. E. and S. W., in hollow, 150 ft. below ridge, course S. W.; ascend.
39.95	Set a quartzite stone, 18 x 10 x 6 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; and raise a mound of stone, 2 ft. base, 2 ft. high, N. of cor. Pits impracticable.
51.90	Top of ridge, 80 ft. above hollow, bears N. 10° E. and S. W.; descend.
79.90	The cor. of secs. 25, 26, 35, and 36.
	Land, mountainous.
	Soil, sandy and gravelly loam; 2nd rate.
	Timber, cedar.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous or heavily land, or land covered with dense undergrowth, 79.90 chs.

Chains	
	N. 0°. 1' W., bet. secs. 25 and 26. Over mountainous land, through dense undergrowth.; descend.
3.50	Bottom of hollow, 20 ft. below cor., course S. W.; Enter scattering cedar timber, bears N. E. and S. W; ascend.
20.00	Top of ridge, 150 ft. above hollow, bears N. E. and S. W.; descend.
40.00	Set a limestone, 16x10x7 ins., 12 ins. in the ground, for ¼ sec cor., marked ¼ on W. face; from which
	A cedar, 6 ins. diam., bears S. 78° E, 130 lks. dist., marked ¼ S. 25, B.T.
	A cedar, 8 ins. diam, bears S. 58° W, 48 lks. dist., marked ¼ S. 26, B.T.
48.00	Leave scattering cedar timber, bears N. E. and S. W.
50.00	Foot of steep descent, bears N. E and S W.
80.00	Set a sandstone, 16x8x8 ins., 11 ins. in the ground, for cor. of secs. 23, 24, 25, and 26, marked with 2 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.
	Land, mountainous and nearly level.
	Soil, sandy and gravelly loam; 2nd rate.
	Timber, cedar.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 80.00 chs.
	April 28, 1898: At this corner, we set off 14° 21' N., on the decl. arc; and at 0h 2m p. m., l. m. t., observe the sun on the meridian; the resulting lat. is 39° 40' N.

Chains	
	East, on a random line bet. secs. 24 and 25.
40.00	Set temp. # sec. cor.
80.00	Intersect E. bdy. of Tp. 30 lks. S. of the cor. of secs. 19, 24, 25, and 30, which is a trachyte stone, 6 x 10 x 10 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general. Thence we run S. 89° 47' W., on a true line bet. secs. 24 and 25. Over mountainous land, through dense undergrowth; descend.
7.25	Wood road, bears N. 65° E. and S. 65° W.
7.75	Hollow, 30 ft. below cor. course S. 65° W.; ascend.
10.00	Enter heavy cedar timber, bears N. and S.
40.00	Set a white flint stone, 16 x 10 x 6 ins. 11 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which Cr cedar, 8 ins. diam., bears N. 11° E., 43 lks. dist., marked ¼ S. 24, 13 T. Cr cedar, 6 ins. diam., bears S. 47° W., 22 lks. dist., marked ¼ S. 25, 13 T.; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
56.00	Top of rocky ridge, 80 ft. above hollow, bears N. 80° E. and S. 80° W.; descend.
60.00	Leave heavy cedar timber; foot of steep descent, bears N. 70° E. and S. 80° W.
65.00	Wood road, bears N. 80° W. and S. 80° E.
80.00	The cor. of secs. 23, 24, 25, and 26.

Land, mountainous and nearly level.
Soil, sandy loam and rocky; 2nd and 4th rate.
Timber, cedar.
Undergrowth, sage-brush.
Good grass for grazing.

Chains	
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.
	N. 0° 1' W., bet. secs. 23 and 24. Over rolling land, through dense sage-brush.
40.00	Set a blue lime stone, 16 x 10 x 6 ins., 11 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.
53.75	Old wood road, bears N. 10° W. and S. 10° E.
80.00	Set a sandstone, 16 x 8 x 6 ins., 11 ins. in the ground, for the cor. of 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. Land, rolling, nearly level. Soil, sandy loam; 1st rate. No timber. Undergrowth, sage-brush. Good grass for grazing. Land covered with dense undergrowth, 80.00 chs.
	N. 89° 47' E., on a random line bet. secs. 13 and 24.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect E. bdy. of Tp. at the cor. of secs. 13, 18, 19, and 24, which is a trachyte stone, 8 x 6 x 6 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general.

Chains	Thence we run
	S. 89°47' W., on a true line bet. secs. 13 and 24.
	Over mountainous land, through dense undergrowth, descend.
3.50	Hollow, 30 ft. below cor., course N.W., ascend.
29.00	Top of ridge, 40 ft. above hollow, bears N.W. and S.E.; descend gradually.
40.00	Set a limestone, 17 x 9 x 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.
80.00	The cor. of secs. 13, 14, 23, and 24.
	Land, mountainous, and nearly level.
	Soil, sandy loam, and rocky; 2nd and 4th rate.
	No timber.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 80.00 chs.
	April 28, 1898.

April 29, 1898: At 7h 2m a. m., l. m. t., we set off 39°41' N., on the lat. arc, 14°37' N., on the decl. arc; and determine a true meridian, with the solar, at the cor. of secs. 13, 14, 23, and 24.

Chains	Thence we run
	N. 0°1' W., bet. secs. 13 and 14.
	Over gently rolling ground, through dense sage-brush.
37.50	Wagon road from Nephi to Lemington, bears N. 65° E. and S. 65° W.
40.00	Set a red sandstone, 28 x 10 x 6 ins.,

Subdivision of T. 13 S., R. 2 W.- Continued.

Chains	20 ins. in the ground, for ¼ sec. cor., marked ¼ 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. From this cor. a reservoir dam, bears N. 80° W. about 14.00 chs. dist., a dug-out house bears S. 48° 45' W., about 14.00 chs. dist.
50.75	Main wash of valley, 15 lks. wide, 1 ft. deep, course S. 65° W.,
80.00	Set a trachyte stone, 16 x 8 x 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. edges; 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, gently rolling. Soil, sandy loam; 1st rate. No timber. Undergrowth, sage-brush. Good grass for grazing. Land covered with dense undergrowth, 80.00 chs.
	N. 89° 47' E., on a random line bet. secs. 12 and 13.
40.00	Set temp. ¼ sec. cor.
80.10	Intersect E. bdy. of Tp. 20 lks. N. of cor. of secs. 7, 12, 13, and 18, which is a quartzite stone, 12 x 9 x 6 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general. Thence we run S. 89° 56' W., on a true line bet. secs. 12 and 13.

Chains	
	Over nearly level land, gradually descending, through dense undergrowth.
32.00	Wagon road from Nephi to Leeington, bears N. 20° E. and S. 40° W.
34.00	Wash, 10 lks. wide, 6 ft. deep, course S. 50° W.
40.05	Set a trachyte stone, 14 x 8 x 6 ins., 9 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.
80.10	The cor. of secs. 11, 12, 13, and 14. Land, nearly level. Soil, sandy loam; 1st rate. No timber. Undergrowth, sage-brush. Good grass for grazing. Land covered with dense undergrowth, 80.10 chs.

N. 0° 1' W., bet. secs. 11 and 12.
Over gently rolling land, in Dog Valley, through dense undergrowth.

40.00	Set a trachyte stone, 14 x 6 x 6 ins., 9 ins. in the ground, for ¼ sec. cor., marked ¼ 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 trachyte stone, 15 x 6 x 6 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. edges; dig pits, 18 x 18 x 12 ins.,

Chains	
	in each sec., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, nearly level valley. Soil, sandy loam; 2nd rate. No timber. Undergrowth, sage-brush. Good grass for grazing. Land covered with dense undergrowth, 8000 chs. April 29, 1898: At this corner, we set off 14°40' N., on the decl. arc; and at 0h, 1m p.m., l. m. t., observe the sun on the meridian; the resulting lat. is 39°42' N.
	N. 89°56' E., on a random line bet. secs. 1 and 12.
4.00	Set temp. ¼ sec. cor.
79.90	Intersect E. bdy. of Tp., 15 lks. S. of the cor. of secs. 1, 6, 7, and 12, which is a trachyte stone, 10 x 5 x 3 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general. Thence we run S. 89°50' W., on a true line bet. secs. 1 and 12. Over nearly level valley, through dense sage-brush.
39.95	Set a trachyte stone, 18 x 12 x 6 ins., 12 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.
43.90	Wash, 10 lks. wide, 3 ft. deep, course S.E.
79.90	The cor. of secs. 1, 2, 11, and 12.

Chains	
	Land, nearly level. Soil, sandy loam; 2nd rate. No timber. Undergrowth, sage-brush. Good grass for grazing. Land covered with dense undergrowth, 79.90 chs.
	N. 0° 1' W., on a random line bet. secs. 1 and 2.
40.00	Set temp. ¼ sec. cor.
74.80	Intersect N. bdy. of Tp., at the cor. of secs. 1, 2, 35, and 36, which is a trachyte stone, 8 x 6 x 5 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general. Thence we run S. 0° 1' E., on a true line bet. secs. 1 and 2. Over nearly level land, through dense sage-brush.
34.80	Set a trachyte stone, 14 x 6 x 6 ins., 9 ins. in the ground, for ¼ sec. cor., marked ¼ 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.
74.80	The cor. of secs. 1, 2, 11, and 12. Land, nearly level. Soil, sandy loam; 2nd rate. No timber. Undergrowth, sage-brush. Good grass for grazing. Land covered with dense undergrowth, 74.80 chs. April 29, 1898.

Chains	
	April 30, 1898: At 7h 29m a. m., l. m. t., we set of 39°38' N., on the lat. arc; 14°55' N., on the decl. arc; and determine a true meridian, with the solar, at the cor. of secs. 2, 3, 34, and 35.
	Thence we run
	N. 0° 1' W., bet. secs. 34 and 35.
	Over nearly level land, through dense undergrowth, ascend gently.
40.00	Set a lime-stone, 12 x 8 x 6 ins., 8 ins. in the ground, for ¼ sec. cor., marked ¼ 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 quartzite stone, 15 x 6 x 6 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; 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, nearly level.
	Soil, sandy loam; 2nd rate.
	No timber.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Land covered with dense under growth, 80.00 chs.
	East, on a random line bet. secs. 26 and 35.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line, at the cor. of secs. 25, 26, 35, and 36.
	Thence we run
	West, on a true line bet. secs. 26 and 35.
	Over rolling ground, through

Chains	
	dense undergrowth; descend.
2.50	Bottom of hollow, 15 ft. below cor., course S. 60° W.; ascend.
20.00	Top of ridge, 20 ft. above hollow, bears N. 45° E. and S. 45° W.; descend.
40.00	Road in swale, course N.; set a trachyte stone, 18 x 12 x 10 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; and raise a mound of stone, 2 ft. base, 2 ft. high, N. of cor. Pits impracticable; begin ascent.
65.00	Top of ridge, 25 ft. above hollow, bears N. and S.; descend.
80.00	The cor. of secs. 26, 27, 34, and 35.
	Land, mountainous.
	Soil, sandy and gravelly loam; 2nd rate.
	No timber.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 80.00 ch.

	N. 0° 1' W., bet. secs. 26 and 27.
	Over nearly level land, through dense undergrowth.
40.00	Set a quartzite stone, 14 x 8 x 8 ins., 9 ins. in the ground, for ¼ sec. cor., marked ¼ 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 red sandstone, 14 x 8 x 6 ins., 9 ins. in the ground, for cor. of secs. 22, 23, 26, and 27, marked with 2 notches on S. and E. edges; dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. dist.; and raise a mound

Chains	
	of earth, 4 ft. base, 2 ft. high, W. for. Land, nearly level. Soil, sandy loam; 2nd rate. No timber. Undergrowth, sage-brush. Good grass for grazing. Land covered with dense under-growth, 80.00 chs.
	East, on a random line bet. secs. 23 and 26.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line, 20 lks. N. of cor. of secs. 23, 24, 25, and 26. Thence we run N. 89°51' W., on a true line bet. secs. 23 and 26. Over nearly level land, through dense undergrowth.
40.00	Set a trachyte stone, 18x9x6 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 im-practicable.
67.25	Wagon road leading to Nephi, bears N. 30° E. and S. 30° W.
80.00	The cor. of secs. 22, 23, 26 and 27. Land, nearly level; sloping gently to the W. Soil, sandy loam; 2nd rate. No timber. Undergrowth, sage-brush. Good grass for grazing. Land covered with dense under growth, 80.00 chs. April 30, 1898: At this corner, we set off 14°58' N., on the decl. arc; and at 11h 58m a. m., l. m. t., observe the sun on

Chains the meridian, the resulting lat. is 39° 40' N. or about 0.'02' greater than the proper lat.

N. 0° 1' W., bet. secs. 22 and 23.
Over nearly level land, through dense undergrowth.
12.00 Wagon road, bears N. E. and S. W.
40.00 Set a cedar post, 3 ft. long, 3 ins. sq., 24 ins. in the ground, for 1/4 sec. cor., marked 1/4 S. 22 on W. face, 23 on E. 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.
58.75 Wagon road from Lemington to Nephi, bears N. E. and S. W.
80.00 Set a cedar post, 4 ft. long, 3 ins. sq., 24 ins. in the ground, for cor. of secs. 14, 15, 22, and 23, marked
T. 13 S., S. 14 on N. E.
R. 2 W., S. 23 on S. E.
S. 22 on S. W., and
S. 15 on N. W. faces; with 3 notches on S. and 2 notches on E. edges; 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, nearly level.
Soil, sandy loam; 2nd rate.
No timber.
Undergrowth, sage-brush.
Good grass for grazing.
Land covered with dense undergrowth, 80.00 chs.

S. 89° 51' E., on a random line bet. secs.

Subdivision of T. 13 S., R. 2 W.—Continued.

Chains	14 and 23.
40.00	Set temp. ¼ sec. cor.
79.70	Intersect N. and S. line, at the cor. of secs. 13, 14, 23, and 24.
	Thence we run
	N. 89° 51' W. on a true line bet. secs. 14 and 23.
	Over nearly level land, through dense undergrowth.
32.50	Wagon road, from Lemington to Nephi, bears N. E. and S. W.
39.85	Set a white flint stone, 16 x 10 x 4 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; dig pits, 18 x 18 x 12 ins., E. and W. stone, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
46.50	Wagon road, bears N. E. and S. W.
79.70	The cor. of secs. 14, 15, 22, and 23.
	Land, nearly level valley.
	Soil, sandy loam; 2nd rate.
	No timber.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Land covered with dense undergrowth, 79.70 chs.

	N. 0° 1' W., bet. secs. 14 and 15.
	Over nearly level valley, through dense undergrowth.
40.00	Set a grey limestone, 14 x 6 x 6 ins., 9 ins. in the ground, for ¼ sec. cor., marked ¼ 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.
41.50	Wood road, leading to Nephi, bears E. and W.
80.00	Set a grey limestone, 14 x 8 x 4 ins.,

Chains	
	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. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	Land, nearly level valley.
	Soil, sandy loam; 2nd rate.
	No timber.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Land covered with dense undergrowth, 80.00 chs.
	April 30, 1898.
	May 2, 1898: At 7h 3m a. m., l. m. t., we set off 39°42' N., on the lat. arc; 15°31' N., on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 10, 11, 14, and 15.
	Thence we run
	S. 89°51' E., on a random line bet. secs. 11 and 14.
40.00	Set temp. ¼ sec. cor.
80.10	Intersect N. and S. line, 110 lks. S. of cor. of secs. 11, 12, 13, and 14.
	Thence we run
	S. 89°52' W., on a true line bet. secs. 11 and 14.
	Over nearly level valley, through dense undergrowth.
40.05	Set a grey limestone, 16 x 6 x 6 ins., 11 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.
80.10	The cor. of secs. 10, 11, 14, and 15.
	Land, nearly level valley.

Chains	Soil, sandy loam; 2nd rate.
	No timber.
	Undergrowth, sage and rabbit-brush
	Good grass for grazing.
	Land covered with dense under-growth, 80.10 chs.
	N. 0° 1' W., bet. secs. 10 and 11.
	Over nearly level valley, through dense undergrowth.
40.00	Set a grey limestone, 16 x 12 x 6 ins, 11 ins. in the ground, for ¼ sec. cor., marked ¼ 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.
45.00	Enter scattering cedar timber, bears E. and W.
55.00	Foot of mountain, bears E. and W.; ascend.
80.00	Set a limestone, 17 x 12 x 10 ins., 11 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; from which
	Cedar, 6 ins. diam., bears S. 24° W., 75 lks. dist., marked T. 13 S., R. 2 W., S. 10, B.T.
	Cedar, 7 ins. diam., bears N. 76° W. 60 lks. dist., marked T. 13 S., R. 2 W., S. 3, B.T.
	No other trees within limits; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	Land, mountainous and nearly level.
	Soil, sandy and gravelly loam

Chains	
	2nd rate.
	Timber, cedar.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 80.00 chs.
	N. 89°52' E., on a random line bet. secs. 2 and 11.
40.00	Set temp. ¼ sec. cor.
80.24	Intersect N. and S. line, 25 lks. S. of the cor. of secs. 1, 2, 11, and 12.
	Thence we run
	S. 89°41' W., on a true line bet. secs. 2 and 11.
	Over nearly level valley, through dense undergrowth.
40.12	Set a trachyte stone, 14 x 8 x 6 ins., 9 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.
59.00	Foot of mountain, bears N. and S., ascend.
62.00	Enter scattering cedar timber, bears N. E. and S. W.
80.24	The cor. of secs. 2, 3, 10, and 11.
	Land, mountainous, and nearly level.
	Soil, sandy and gravelly loam, 2nd rate.
	Timber, cedar.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 80.24 chs.

Chains	
	May 2, 1898: At this corner, we set off 15° 34' N., on the decl. arc; and at 0h 4m p.m., l. m. t., observed the sun on the meridian; the resulting lat. is 39° 42' N.
	N. 0° 1' W., on a random line bet. secs. 2 and 3.
40.00	Set temp. ¼ sec. cor.
74.75	Intersect N. bdy. of Tp. at the cor. of secs. 2, 3, 34, and 35.
	Thence we run
	S. 0° 1' E., on a true line bet. secs. 2 and 3.
	Over mountainous land, through cedar timber; along W. face of ridge; ascend.
20.00	Top of ridge, bears N. 2° E. and S. 2° W, thence descending along E. face of ridge.
34.75	Set a trachyte stone, 18x10x5 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face, from which
	Cedar, 8 ins. diam., bears S. 20° E., 40 lks. dist., marked ¼ S. 2, B.T.
	Cedar, 7 ins. diam., bears N. 10° W. 30 lks. dist., marked ¼ S. 3, B.T.
74.75	The cor. of secs. 2, 3, 10, and 11.
	Land, mountainous.
	Soil, gravelly loam; 2nd rate.
	Timber, scattering cedar.
	Good grass for grazing.
	Mountainous land, 74.75 chs.
	From the cor. of secs. 3, 4, 33, and 34,

Chains	
	on S. bdy. of Tp., heretofore described, We run N. 0° 2' W., bet. secs. 33 and 34. Over mountainous land, through dense undergrowth and scattering cedar timber; descend.
25.00	Bottom of hollow, 30 ft. below sec. cor., course N. 15° E.; ascend.
37.00	Top of ridge, 25 ft. above hollow, bears N. 15° E. and S. 15° W.; descend.
40.00	Set a quartzite stone, 18x10x6 ins., 12 ins in the ground, for ¼ sec. cor., marked ¼ on W. face; from which A cedar, 3 ins. diam., bears S. 76° E., 42 lks. dist., marked ¼ S. 34, B.T. A cedar, 8 ins. diam., bears S. 27° W. 114 lks. dist., marked ¼ S. 33, B.T.
67.30	Wagon road, bears E. and W.; in hollow course W.; ascend.
80.00	Set a trachyte stone, 18x8x6 ins., 12 ins. in the ground, for cor. of secs. 27, 28, 34, and 33, marked with 1 notch on S. and 3 notches on E. edges; 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, mountainous. Soil, sandy and gravelly loam, 2nd rate. Timber, scattering cedar. Undergrowth, sage brush. Good grass for grazing. Mountainous land, or land covered with dense under-growth, 80.00 chs.

East, on a random line bet. secs.

Chains	
	27 and 34.
40.00	Set temp. ¼ sec. cor.
79.80	Intersect N. and S. line, 30 lks. S. of cor. of secs. 26, 27, 34, and 35.
	Thence we run
	S. 89° 47' W., on a true line bet. secs. 27 and 34.
	Over nearly level land, through dense undergrowth.
39.90	Set a quartzite stone, 14 x 6 x 6 ins., 9 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.
	Ascend gradually.
73.00	Top of ridge, 150 ft. above ¼ sec. cor., bears N. and S.; descend.
79.80	The cor. of secs. 27, 28, 33, and 34.
	Land, mountainous and nearly level.
	Soil, sandy loam; 2nd rate.
	No timber.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 79.80 chs.
	May 2, 1898.

May 3, 1898: At 7 h 0 m a. m., l. m. t., we set off 39° 39' N., on the lat. arc; 15° 49' N., on the decl. arc; and determine a true meridian, with the solar, at the cor. of secs. 27, 28, 33, and 34.

Thence we run

N. 0° 2' W., bet. secs. 27 and 28.

Over nearly level land, through dense sage-brush; descend gently.

Chains	
25.00	Wash, 12 lks. wide, 4 ft. deep, in hollow, course W.
26.25	Wagon road, from Nephi to Lemington, bears E. and W.
37.50	Begin ascent, bears E. and W.
40.00	Set a trachyte stone, 20 x 14 x 6 ins., 15 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	Enter scattering cedar timber, bears E. and W.
80.00	Set a quartzite stone, 18 x 10 x 6 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. edges; from which A cedar, 14 ins. diam., bears S. 63° 30' W., 237 lks. dist., marked T. 13 S., R 2 W., S. 28, B.T. A cedar, 12 ins. diam., bears N. 74° W., 137 lks. dist., marked T. 13 S., R. 2 W. S. 21, B.T. No other trees within limits; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable Land, nearly level and rolling. Soil, sandy loam; 2nd rate. Timber, scattering cedar. Undergrowth, sage-brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 80.00 chs.
	N. 89° 47' E., on a random line bet. secs. 22 and 27.
40.00	Set temp. ¼ sec. cor.

Chains	
80.26	Intersect N. and S. line 20 lks. N. of the cor. of secs. 22, 23, 26, and 27. Thence we run S. 89°56' W., on a true line bet. secs. 22 and 27. Over nearly level land, through dense undergrowth.
16.50	Wagon road, bears N. E. and S. W.
40.13	Set a trachyte stone, 14 x 8 x 6 ins., 9 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.
65.00	Begin ascent, bears N. 10° E. and S. 10° W.; Enter scattering cedar timber, bears N. 10° E. and S. 10° W.
78.50	Top of spur, 50 ft. above ¼ sec. cor, bears N. 5° W. and S. 5° E.; descend.
80.26	The cor. of secs. 21, 22, 27, and 28. Land, nearly level and mountainous. Soil, sandy loam; 2nd rate. Timber, scattering cedar. Undergrowth, sage-brush. Mountainous land, or land covered with dense undergrowth, 80.26 chs. May 3, 1898: At this corner, we set off 15°52' N., on the decl. arc; and at 0h 5m p.m., l. m. t., observe the sun on the meridian, the resulting lat. is 39°40' N.
	N. 0°2' W., bet. secs. 21 and 22. Over mountainous land, through scattering cedar timber, and undergrowth; ascend.
10.00	Top of spur, 30 ft. above cor., bears N. 5° W. and S. 5° E.; descend.
35.00	Wagon road leading from Nephi

Chains	
	to a corner valley, bears N. 85° E. and S. 85° W.
40.00	Set a sand stone, 24 x 10 x 6 ins., 18 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; from which
	Cu cedar, 6 ins. diam., bears N. 88° E., 103 lks. dist., marked ¼ S. 22, B.T.
	Cu cedar, 5 ins. diam., bears S. 77° 30' W., 192 lks. dist., marked ¼ S. 21, B.T.
	This cor. is in swale, 40 ft. below ridge, course S. E.
75.00	Top of ridge 40 ft. above ¼ sec. cor., bears N. 20° W. and S. 20° E.; descend.
80.00	Set a trachyte stone, 20 x 12 x 10 ins., 15 ins. in the ground, for cor. of secs. 15, 16, 21 and 22, marked with 3 notches on S. and E. edges, and 13 S. on N. E. and 2 W. on S. E. faces; from which
	Cu cedar, 4 ins. diam., bears N. 8° 30' E., 120 lks. dist., marked T. 13 S., R. 2 W., S. 15, B.T.
	Cu cedar, 3 ins. diam., bears N. 50° W., 110 lks. dist., marked T. 13 S., R. 2 W., S. 16, B.T.
	No other trees within limits; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	Land, mountainous.
	Soil, sandy loam; 2nd rate.
	Timber, scattering cedar.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous land, 80.00 chs.

	N. 89° 56' E., on a random line bet. secs. 15 and 22.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line, at the cor.

Chains	
	of secs. 14, 15, 22, and 23.
	Thence we run
	S. 89°56' W., on a true line bet. secs. 15 and 22.
	Over nearly level land, through dense sage-brush.
35.00	Begin ascent; bears N. E. and S. W.
40.00	Set a white flint stone, 14 x 10 x 4 ins., 9 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.
80.00	The cor. of secs. 15, 16, 21, and 22.
	Land, nearly level, and mountainous
	Soil, sandy loam; 2nd rate.
	No timber.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 80.00 chs.
	May 3, 1898.

May 4, 1898: At the cor. of secs. 15, 16, 21, and 22, latitude 39°41' N., longitude 112°3' W.; At 4h 39m a. m., by our watches, which are 3m 11.4s fast of l. m. t., we observe Polaris at eastern elongation, with the Buff and Berger instrument, in accordance with the Manual of Instructions, and mark a point in the line thus determined by a tack driven in a wooden plug, set in the ground, 5 chs. N. of our station. At 6h 33m a. m., l. m. t., we lay off the azimuth of Polaris 1°36.8' to

the west, on the Buff and Berger instrument, and mark the true meridian thus determined by cutting a small groove in a stone firmly set in the ground, west of the mark established by Polaris observation; the magnetic bearing of said true meridian is N. 16°36' W., which reduced by the table on page 100, of the manual, gives the mean mag. decl. 16°32' E.

At 7h 31m a. m., l. m. t., we set off 39°41' N., on the lat. arc, 16°7' N., on the decl. arc; and mark the true meridian, determined with the solar, by a cross on the stone already set 5 chs. N. of our station; this mark falls 0.2 ins. west of the true meridian established by Polaris observation; therefore we conclude that the adjustments of the instruments are satisfactory.

Thence we run

N. 0°2' W., bet. secs. 15 and 16.

Over mountainous land, through scattering cedar timber and undergrowth; descend.

18.00 Wood road, bears N. W. and S. E., in hollow, course S. E.; ascend.

25.00 Top of dividing ridge bet. Dog and Fenner valleys, 50 ft. above hollow, bears N. 35° E. about 10 chs. then N., and S. 35° W. about 3.00 chs. then S.; thence along W. face of mountain, gently ascending.

40.00 Set a limestone, 20x8x6 ins., 15 ins. in the ground, for ± sec. cor., marked ± on W. face; from which

A cedar, 8 ins. diam., bears S. 60°30' E., 29 lks. dist., marked ± S. 15, B.T.

Chains	
	A cedar, 4 ins. diam., bears N. 62°30' W., 40 lks. dist., marked ‡ S. 16, B. T.
80.00	Set a trachyte stone, 18x10x8 ins., 12 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; from which
	A cedar, 10 ins. diam., bears N. 47° E., 35 lks. dist., marked T. 13 S., R. 2 W., S. 10, B. T.
	A cedar, 6 ins. diam., bears S. 11° E., 30 lks. dist., marked T. 13 S., R. 2 W., S. 15, B. T.
	A cedar, 12 ins. diam., bears S. 36° W., 30 lks. dist., marked T. 13 S., R. 2 W., S. 16, B. T.
	A cedar, 10 ins. diam., bears N. 81° W., 10 lks. dist., marked T. 13 S., R. 2 W., S. 9, B. T.
	Land, mountainous.
	Soil, gravelly loam; 2nd rate.
	Timber, cedar.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Mountainous land, 80.00 chs.
	N. 89°56' E., on a random line bet. secs. 10 and 15.
40.00	Set temp. ‡ secs cor.
80.00	Intersect N. and S. lines, 20 lks. N. of the cor. of secs. 10, 11, 14, and 15.
	Thence we run N. 89°55' W., on a true line bet. secs. 10 and 15.
	Over nearly level land, through dense undergrowth.
23.00	Begin ascent of mountain, bears N. and S.; leave dense undergrowth,

Chain enter scattering cedar timber, bears N. and S.

40.00 Set a trachyte stone, 14x8x8 ins., 9 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which

A cedar, 6 ins. diam., bears N. 75° E. 45 lks. dist., marked ¼ S. 10, B.T.

A cedar, 12 ins. diam., bears S. 4° W. 8 lks. dist., marked ¼ S. 15, B.T.

70.75 Top of dividing ridge bet. Dog and Ferner valleys, 300 ft. above sec. cor., bears N. and S.; descend.

80.00 The cor. of secs. 9, 10, 15, and 16.

Land, mountainous and nearly level.

Soil, sandy and gravelly loam; 2nd rate.

Timber, scattering cedar.

Undergrowth, sage-brush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth, 80.00 chs.

N. 0°2' W., bet. secs. 9 and 10.

Over mountainous land, through heavy cedar timber.; ascend.

23.50 Top of ridge, 150 ft. above sec. cor., bears E. and W.; descend.

40.00 Set a trachyte stone, 20x12x6 ins., 15 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; from which

A cedar, 14 ins. diam., bears S. 80° E. 10 lks. dist., marked ¼ S. 10, B.T.

A cedar, 6 ins. diam., bears N. 50° W. 55 lks. dist., marked

Chains	# S. 9, B. T.
49.00	Bottom of hollow, 50 ft. below ¼ sec. cor., course W.; ascend.
70.00	Leave heavy cedar timber; bears E. and W.
80.00	Set a trachyte stone, 18 x 10 x 8 ins., 12 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; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, gravelly; 3rd rate. Timber, cedar. Good grass for grazing. Mountainous or heavily timbered land, 80.00 chs.
	S. 89° 55' E., on a random line bet. secs. 3 and 10.
40.00	Set temp. ¼ sec. cor.
80.10	Intersect N. and S. line, 30 lks. N. of the cor. of secs. 2, 3, 10, and 11. Thence we run N. 89° 42' W., on a true line bet. secs. 3 and 10. Over mountainous land, through scattering undergrowth; ascend.
3.00	Top of ridge, 50 ft. above cor., bears N. 10° W. and S. 10° E.; descend.
16.50	Bottom of hollow, 200 ft. below ridge, course S. 10° E.; enter scattering cedar timber, bears N. and S.; ascend.
40.05	Set a trachyte stone, 20 x 12 x 6 ins., 15 ins. in the ground, for ¼ sec. cor.,

Chain marked # on N. face; from which
A cedar, 8 ins. diam., bears
N. 52° 30' E., 100 lks. dist., marked
S. 3, B. T.
A cedar, 7 ins. diam., bears
S. 79° W., 100 lks. dist., marked
S. 10, B. T.

71.75 T. of of dividing ridge, bet. Dog and
Ferner valleys, 600 ft. above hollow,
bears N. 10° W. and S. 10° E.; descend.

80.10 The cor. of secs. 3, 4, 9, and 10.
Land, mountainous.
Soil, sandy and gravelly loam;
2nd rate.
Timber, scattering cedar.
Undergrowth, sage-brush.
Good grass for grazing.
Mountainous land, 80.10 chs.
May 4, 1898: At this corner, we set
off 16° 9' N., on the decl. arc; and at
11h 56m a. m., l. m. t., observe the sun
on the meridian, the resulting lat.
is 39° 42' N.

N. 0° 2' W., on a random line bet.
secs. 3 and 4.

40.00 Set temp. # sec. cor.

74.50 Intersect N. bdy. of Tp., 20 lks. E. of
cor. of secs. 3, 4, 33, and 34.
Thence we run
S. 0° 11' E., on a true line bet. secs.
3 and 4.
Over mountainous land, through
scattering cedar timber and
undergrowth; ascend.

54.50 Set a trachyte stone, 16 x 12 x 6 ins.,
11 ins. in the ground, for # sec. cor.,
marked # on W. face; from which
A cedar, 6 ins. diam., bears

Chains	
	S. 37° E., 17 lks. dist., marked ‡ S. 3, B. T.
	A cedar, 7 ins. diam., bears S. 31° W., 16 lks. dist., marked ‡ S. 4, B. T.
36.00	Top of dividing ridge, bet. Dog and Turner valleys, 300 ft. above sec. cor., bears N. 80° W. and S. 10° E.; descend.
48.25	Wagon road, bears N. E. and S. 20° W.; in hollow, 150 ft. below ridge, course S. 20° W.; Leave cedar timber, bears N. E. and S. 20° W.; ascend.
71.75	Top of spur, 150 ft. above hollow, bears N. 85° E. and S. 85° W.; descend.
74.50	The cor. of secs. 3, 4, 9, and 10.
	Land, mountainous.
	Soil, gravelly loam; 2nd rate.
	Timber, scattering cedar.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Mountainous land, 74.50 chs.

	From the cor. of secs. 4, 5, 32, and 33, on S. bdy. of Tp., heretofore described, We run
	N. 0° 3' W., bet. secs. 32 and 33.
	Over rolling ground, through scattering cedar timber, and undergrowth.
8.00	Wash, 5 lks. wide, 2 ft. deep, in hollow, course N. E.; descend.
15.50	Top of spur, 60 ft. above hollow, bears N. 30° E. and S. 50° W.; descend
28.50	Foot of descent, bears N. 30° E. and S. 30° W.; Thence across valley.
31.00	Leave scattering cedar timber, bears N. E. and S. W.
40.00	Set a trachyte stone, 14 x 12 x 10 ins., 9 ins. in the ground, for ¼ sec. cor.,

Chains marked 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.

45.00 Wash, 10 lks. wide, 2 ft. deep, course N.W.

47.20 Foot of perpendicular ledge, of granite stone, 15 ft. high, bears E. and W.; Leave valley; ascend.

54.00 Top of ridge, 50 ft. above valley, bears E. and W.; descend abruptly.

57.60 Wash, 15 lks. wide, 3 ft. deep, in hollow, course W.; ascend.

63.50 Top of ridge, 200 ft. above hollow, descends N.; Thence along top of ridge; Enter scattering cedar timber.

75.00 Foot of descent.

80.00 Set a trachyte stone, 16 x 8 x 6 ins., 11 ins. in the ground, for cor. of sec. 28, 29, 32, and 33, marked with 1 notch on S. and 4 notches on E. edges; from which

A cedar, 8 ins. diam., bears N. 40° E., 70 lks. dist., marked T. 13 S., R. 2 W. S. 28, B.T.

A cedar, 5 ins. diam., bears S. 71° W., 180 lks. dist., marked T. 13 S., R. 2 W. S. 32, B.T.

A cedar, 10 ins. diam., bears N. 34° W., 160 lks. dist., marked T. 13 S., R. 2 W. S. 29, B.T.

No other trees within limits; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.

Land, rolling and broken.

Soil, sandy and gravelly loam, 2nd rate.

Timber, scattering cedar.

Undergrowth, sage brush.

Good grass for grazing.

~~Land covered with dense undergrowth~~

Chains	
	East on a random line bet. secs. 28 and 33.
40.00	Set temp. ¼ sec. cor.
79.80	Intersect N. and S. line, 25 lks. S. of cor. of secs. 27, 28, 33, and 34.
	Thence we run
	S. 89°49' W., on a true line bet. secs. 28 and 33.
	Over rolling mountain, through dense undergrowth; ascend.
7.50	Top of spur, 80 ft. above sec. cor., bears N. and S.; descend.
27.50	Wash, 20 lks. wide, 3 ft. deep, in hollow, course S. W.; ascend.
35.00	Top of rocky spur, 40 ft. above hollow, bears N. and S.; descend
39.90	Set a trachyte stone, 24x20x12 ins., 18 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; and raise a mound of stone, 2 ft. base, 2 ft. high, N. of cor. Pits impracticable.
48.50	Enter scattering cedar timber, bears N. E. and S. W.
63.50	Enter ground covered with large granite boulders, bears N. E. and S. W.
73.50	Leave boulders, N. E. and S. W.
79.80	The cor. of secs. 28, 29, 32, and 33.
	Land, rolling mountains.
	Soil, sandy and gravelly loam; 2nd rate.
	Timber, scattering cedar.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense under-growth, 79.80 chs.
	May 4, 1898.

May 5, 1898: At 7h 4m a. m., l. m. t., we set off 39°39' N., on the lat. arc; 16° 24' N., on the decl. arc; and de a true meridian with the solar, at the cor. of secs. 28, 29, 32, and 33.
Thence we run
N. 0°3' W., bet. secs. 28 and 29.
Over mountainous land, through scattering cedar timber and dense undergrowth; ascend.
7.00 Wagon road, bears E. and W.
40.00 Set a trachyte stone, 20 x 12 x 6 ins., 15 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; from which
A cedar, 10 ins. diam., bears N. 70° E., 75 lks. dist., marked ¼ S. 28, B. T.
A cedar, 14 ins. diam., bears S. 30° W., 30 lks. dist., marked ¼ S. 29, B. T.
46.00 Top of ridge, 250 ft. above sec. cor., bears N. W. and S. E.; descend.
80.00 Set a trachyte stone, 16 x 10 x 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. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
Land, mountainous.
Soil, sandy loam; 2nd rate.
Timber, scattering cedar.
Undergrowth, sage-brush.
Good grass for grazing.
Mountainous land, or land covered with dense undergrowth, 80.00 chs.

N. 89°49' E., on a random line bet. secs.

Chains	
	21 and 28.
40.00	Set temp. ¾ sec. cor.
80.00	Intersect N. and S. line, 20 lks. S. of cor. of secs. 21, 22, 27, and 28.
	Thence we run
	S. 89° 40' W., on a true line bet. secs. 21 and 28.
	Over mountainous land, through dense undergrowth, and scattering cedar timber; descend.
10.00	Bottom of hollow, 150 ft. below sec. cor., course S.; ascend.
55.50	Top of ridge, 175 ft. above hollow, bears N. 10° E. and S. 10° W.; descend.
40.00	Set a trachyte stone, 14 x 10 x 6 ins., 9 ins. in the ground, for ¼ sec. cor., marked ¾ on N. face; from which
	A cedar, 12 ins. diam., bears N. 69° 30' W., 34 lks. dist., marked ¾ S. 21, B.T.
	A cedar, 6 ins. diam., bears S. 14° E., 119 lks. dist., marked ¾ S. 28, B.T.
80.00	The cor. of secs. 20, 21, 28, and 29.
	Land, mountainous.
	Soil, loam; 1st rate.
	Timber, scattering cedar.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 80.00 chs.

	N. 0° 3' W., bet. secs. 20 and 21.
	Over mountainous land, through scattering cedar timber and undergrowth,
32.00	Bottom of hollow, course S.W., ascend
40.00	Set a trachyte stone, 16 x 12 x 6 ins., 11

Chains	
	ins. in the ground, for ¼ sec. cor., marked ¼ 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 high, W. of cor.
56.75	Wagon road leading from Nephi to Leeiington, bears N. 60° W. and S. 60° E.
80.00	Set a trachyte stone, 14 x 10 x 6 ins., 9 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, 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, mountainous.
	Soil, sandy loam; 2nd rate.
	Timber, scattering cedar.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Mountainous land, 80.00 chs.
	May 5, 1898: At this corner, we set off 16° 26' N., on the decl. arc; and at 0h 2m p. m., l. m. t., observe the sun on the meridian; the resulting lat. is 39° 41' N.

	N. 89° 40' E., on a random line bet. secs. 16 and 21.
40.00	Set temp. ¼ sec. cor.
80.24	Intersect N. and S. line, 14 lks. N. of the cor. of secs. 15, 16, 21, and 22.
	Thence we run
	S. 89° 46' W., on a true line bet. secs. 16 and 21.
	Over mountainous land, through heavy cedar timber.; ascend.
1.25	Top of dividing ridge bet. Dog and Ferner valleys, 20 ft. above cor., bears N. 20° E. and S. 20° W.; descend

Chains	
	into a narrow valley.
35.50	Wash, 3 lks. wide, 6 ins. deep, in hollow, 200 ft. below ridge, course S. W.; ascend.
40.12	Set a trachyte stone, 20 x 12 x 6 ins., 15 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which A cedar, 4 ins. diam., bears N. 61° E., 39 lks. dist., marked ¼ S. 16, B. T. A cedar, 6 ins. diam., bears S. 24° E. 46 lks. dist., marked ¼ S. 21, B. T.
50.00	Top of ridge, 100 ft. above hollow, bears N. and S.; descend.
61.00	Foot of mountain, 150 ft. below ridge, bears N. and S.; leave heavy cedar timber; enter dense sage-brush
72.25	Wood road, bears N. and S.
80.24	The cor. of secs. 16, 17, 20, and 21.
	Land, mountainous and level.
	Soil, sandy and gravelly loam, 2nd rate.
	Timber, cedar.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.24 chs.
	N. 0° 3' W., bet. secs. 16 and 17.
	Over nearly level land, through scattering cedar timber, and dense undergrowth.
40.00	Set a trachyte stone, 16 x 12 x 6 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; from which A cedar, 8 ins. diam., bears N. 50° W., 175 lks. dist., marked

Chains

S. 17, B.T.

no other trees within limits; dig pits, 18 x 18 x 12 ins., N. and S. of tree 5 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.

55.00 Wood road, bears N. 20° W. and S. 20° E.

80.00 Set a trachyte stone, 14 x 12 x 8 ins., 9 ins. in the ground, for cor. of secs. 8, 9, 16, and 17, marked with 4 notches on S. and 4 notches on E. edges; from which

A cedar, 6 ins. diam., bears N. 2° E., 54 lks. dist., marked T. 13 S., R. 2 W., S. 9, B.T.

A cedar, 8 ins. diam., bears S. 7° E. 65 lks. dist., marked T. 13 S., R. 2 W. S. 16, B.T.

A cedar, 5 ins. diam., bears S. 34° W. 55 lks. dist., marked T. 13 S., R. 2 W., S. 17, B.T.

A cedar, 8 ins. diam., bears N. 23° W., 128 lks. dist, marked T. 13 S., R. 2 W., S. 8, B.T.

Land, nearly level.
Soil, sandy loam, 1st rate.
Timber, scattering cedar.
Undergrowth, sage-brush.
Good grass for grazing.
Land covered with dense undergrowth, 8000 chs.

N. 89° 46' E., on a random line bet. secs. 9 and 16.

40.00 Set temp. ¼ sec. cor.

80.40 Intersect N. and S. line, 14 lks. S. of cor. of secs. 9, 10, 15, and 16.

Thence we run

S. 89° 40' W., on a true line, bet. secs. 9 and 16.

Chains	
	Over mountainous land, through heavy cedar timber; descend.
1.50	Bottom of hollow, 50 ft. below sec. cor., course S.; ascend.
8.00	Top of spur, 100 ft. above hollow, bears N. 20° E. and S. 20° W.; descend.
20.00	Foot of mountain, 200 ft. below ridge, bears N. 20° E. and S. 20° W.
40.20	Set a trachyte stone, 20 x 14 x 8 ins., 15 ins. in the ground, for ¼ sec. cor. marked ¼ on N. face; from which A cedar, 14 ins. diam., bears N. 10° E. 80 lks. dist., marked ¼ S. 9, B.T. A cedar, 6 ins. diam., bears S. 10° E., 60 lks. dist., marked ¼ S. 16, B.T.
41.00	Leave heavy cedar timber, enter dense undergrowth, bears N. and S.
56.10	Wagon road, bears N. and S.
66.50	Leave dense undergrowth, enter heavy cedar timber, bears N. and S.
80.40	The cor. of secs. 8, 9, 16, and 17. Land, mountainous and level. Soil, sandy and gravelly loam; 2nd rate. Timber, cedar. Undergrowth, sage-brush. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.40 chs.
	N. 0° 3' W., bet. secs. 8 and 9. Over gently rolling ground, through scattering cedar timber, and dense undergrowth.
19.00	Wash, 50 lks. wide, 15 ft. deep, course S. 30° W.

Chains	
40.00	Set a trachyte stone, 15x9x7 ins., 10 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; from which A cedar, 8 ins. diam., bears N. 10° E., 125 lks. dist., marked ¼ S. 9, B. T. A cedar, 8 ins. diam., bears N. 10° W., 90 lks. dist., marked ¼ S. 8, B. T.
80.00	Set a trachyte stone, 20x14x8 ins., 15 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; and raise a mound of stone, 2 ft. base, 2 ft. high, W. of cor. Pits impracticable. Land, gently rolling. Soil, sandy loam; 2nd rate. Timber, scattering cedar. Undergrowth, sage-brush. Good grass for grazing. Land covered with dense undergrowth, 80.00 chs.
	N. 89° 40' E., on a random line bet. secs. 4 and 9.
40.00	Set temp. ¼ sec. cor.
80.18	Intersect N. and S. line, 10 lks. N. of cor. of secs. 3, 4, 9, and 10 Thence we run S. 89° 44' W., on a true line bet. secs. 4 and 9. Over mountainous land, through scattering cedar timber, and undergrowth, descend.
17.00	Wagon road, bears N. E. and S. W.
19.00	Bottom of hollow, 200 ft. below sec. cor., course S. W.; ascend.

Chains	
25.50	Top of spur, 100 ft. above hollow, bears N. E. and S. W.; descend.
40.09	Set a blue limestone, 18x12x8 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face, from which A cedar, 6 ins. diam., bears N. 45° E., 75 lks. dist., marked ¼ S. 4, B. T. A cedar, 6 ins. diam., bears S. 10° E., 15 lks. dist., marked ¼ S. 9, B. T.
50.00	Foot of mountain, bears N. E. and S. W.; enter dense undergrowth.
75.30	Wagon road, bears N. and S.
80.18	The cor. of secs. 4, 5, 8, and 9.
	Land, mountainous and level.
	Soil, sandy and gravelly loam; 2nd rate.
	Timber, cedar.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 80.18 chs.

	N. 0° 3' W., on a random line bet. secs. 4 and 5.
11.00	Set temp. ¼ sec. cor.
74.40	Intersect N. bdy. of Tp. 30 lks. E. of the cor. of secs. 4, 5, 32, and 33.
	Thence we run
	S. 0° 17' E., on a true line bet. secs. 4 and 5.
	Over nearly level land, gently descending S., through dense sage-brush.
34.40	Set a trachyte stone, 18x12x8 ins., 12 ins. in the ground, for ¼ sec. cor.,

Chains	
	marked ‡ on W. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
74.40	The cor. of secs. 4, 5, 8, and 9.
	Land, nearly level.
	Soil, sandy loam; 2nd rate.
	No timber
	Undergrowth, sage-brush.
	Good grass for grazing.
	Land covered with dense undergrowth, 74.40 chs.
	May 5, 1898.

May 6, 1898: At 7h 2m a. m., l. m. t., we set off 39°38' N., on the lat. arc; 16°40' N., on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 5, 6, 31, and 32, heretofore described. Thence we run

N. 0°3' W., bet. secs. 31 and 32.

Over mountainous land, through dense undergrowth; descend.

Chains	
5.00	Bottom of hollow, 50 ft. below cor., course N. W.; ascend.
20.00	Top of ridge, 100 ft. above hollow, bears N. W. and S. E.; descend.
40.00	Set a trachyte stone, 15 x 10 x 8 ins., 10 ins. in the ground, for ‡ sec. cor., marked ‡ on W. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
64.00	Wash, 200 lks. wide, 20 ft. deep, course S. 65° W.; ascend.
66.50	Wagon road, leading to Nephi, bears N. 65° E. and S. 65° W.
80.00	Set a limestone, 20 x 10 x 8 ins., 15 ins. in the ground, for cor. of secs. 29, 30, 31, and 32, marked with 1 notch

Chains	
	on S. and 5 notches on E. edges; from which A cedar, 6 ins. diam., bears S. 10° W., 120 lks. dist., marked T. 13 S., R. 2 W., S. 31, B. T. No other trees within limits. A + (cross) on a granite boulder, 20x10x10 ft. bears N. 41° E., 60 lks. dist., I also cut B. C. on the boulder; and raise a mound of stone, 2 ft. base, 2 ft. high, west of cor. Pits impracticable. Land, mountainous. Soil, sandy loam; 2nd rate No timber. Undergrowth, sage-brush. Mountainous land, or land covered with dense under-growth, 80.00 chs.
	East, on a random line bet. secs. 29 and 32.
40.00	Set temp. ¼ sec. cor.
50.30	Intersect N. and S. line, at the cor. of secs. 28, 29, 32, and 33. Thence we run West, on a true line bet. secs. 29 and 32. Over rolling ground, through dense sage-brush, and scattering cedar timber; ascend.
7.50	Top of ridge, 70 ft. above sec. cor., bears N. 70° E. and S. 70° W.; descend
10.00	Leave scattering cedar timber, bears N. E. and S. W.
24.50	Wash, 10 lks. wide, 6 ft. deep, course N. 10° W.
40.15	Set a trachyte stone 14x12x6 ins., 9 ins. in the ground, for ¼ sec. cor.,

Chains	
	marked ± 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.
46.00	Same wash, 100 lks. wide, 10 ft. deep, course S. 65° W.; ascend.
57.50	Wagon road, leading to Nephi, bears N. 60° E. and S. 60° W.
80.30	The cor. of secs. 29, 30, 31, and 32. Land, rolling. Soil, sandy loam and rocky; 2nd and 4th rate. Timber, scattering cedar. Undergrowth, sage-brush. Land covered with dense undergrowth, 80.30 chs.
	Knowing from previous connections that this line will not intersect the W. bdy. of Tp. within the limits prescribed by the Manual, We run West, on a true line bet. secs. 30 and 31. Over mountainous land, through dense undergrowth and scattering cedar timber; ascend.
26.80	Top of high ridge, 150 ft. above sec. cor; bears N. and S.; descend.
30.70	Foot of abrupt descent, bears N. and S.; thence gently descending.
40.00	Set a quartzite stone, 24 x 18 x 8 ins., 18 ins. in the ground, for ± sec. cor., marked ± on N. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
82.30	Leave scattering cedar timber, bears N. and S.
166.30	Intersect E. bdy. of T. 13 S., R. 3 W.,

Chains	
	58.80 chs. S. of the cor. of secs. 25 and 36, heretofore described.
	Set a black sandstone, 18x12x4 ins., 12 ins. in the ground, for closing cor. of secs. 30 and 31, marked with C.C. on E. 5 grooves on N. and 1 groove on S. faces; dig pits, 24x18x12 ins. crosswise on each line, N. and S., 3 ft., and E. of stone, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, E. of cor.
	Note: We destroy all marks on the cor. of secs. 25 and 36, which pertain to secs. 30 and 31.
	Land, mountainous and rolling.
	Soil, sandy loam and rocky; 2nd and 4th rate.
	Timber, scattering cedar.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 166.30 chs.
	May 6, 1898: At this corner, we set off 16°43' N., on the decl. arc; and at 0h 4m p. m., l. m. t., observe the sun on the meridian, the resulting lat. is 39°39' N.
	N. 0°3' W., bet. secs. 29 and 30. Over broken ground, through dense undergrowth.
40.00	Set a quartzite stone, 14x6x6 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 cor. Pits impracticable.

Subdivision of T. 13 S., R. 2 W.—Continued.

Chains	
80.00	Set a trachyte stone, 18x8x6 ins., 12 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; and raise a mound of stone, 2 ft. base, 2 ft. high, W. of cor. Pits impracticable. Land, broken. Soil, sandy loam; 2nd rate. No timber. Undergrowth, sage-brush. Good grass for grazing. Land covered with dense under growth, 80.00 chs.
	East, on a random line bet. secs. 20 and 29.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line, 40 lks. N. of the cor. of secs. 20, 21, 28, and 29. Thence we run N. 89°43′ W., on a true line bet. secs. 20 and 29. Over mountainous land, through dense undergrowth, and scattering cedar timber; descend.
28.50	Bottom of hollow, 250 ft. below sec. cor., course S. 50° W.; ascend.
40.00	Set a trachyte stone, 16x8x6 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which A cedar, 6 ins. diam., bears N. 70° E. 18 lks. dist., marked ¼ S. 20, B.T. No other trees within limits; raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
41.50	Top of ridge; 20 ft. above ¼ sec. cor.,

Chains	
	bears N. E. and S. W.; descend.
80.00	The cor. of secs. 19, 20, 29, and 30.
	Land, mountainous.
	Soil, loam and rocky; 1st and 4th rate.
	Timber, scattering cedar.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Mountainous land or land covered with dense undergrowth, 80.00 chs.
	May 6, 1898.

May 7, 1898: At 8 h 0 m a. m., l. m. t., we set off 39°40′ N., on the lat. arc; 16°57′ N., on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 19, 20, 29, and 30.
Thence we run (for reasons already given) West, on a true line bet. secs. 19 and 30.
Over rolling land, through dense undergrowth; gradually ascending.

Chains	
15.00	Leave dense undergrowth, enter heavy cedar timber, bears N. and S.
40.00	Set a blue limestone, 15 x 8 x 6 ins., 10 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which
	A cedar, 10 ins. diam., bears N. 2° W. 22 lks. dist., marked ¼ S. 19, B. T.
	A cedar, 12 ins. diam., bears S. 44° W. 20 lks. dist., marked ¼ S. 30, B. T.
72.00	Top of high, rocky, ridge, 250 ft. above sec. cor., bears N. E. and S. W.; descend.
95.00	Wagon road, bears N. 60° E. and S. 60° W., in bottom of cañon, course S. 60° W.

Chains	
	leave heavy cedar timber, bears N.W. and S.E.; thence gently descending
100.00	Same road, bears N. 30° W. and S. 40° E.
166.50	Intersect E. bdy. of T. 13 S., R. 2 W., 59.85 chs. S. of the cor. of secs. 24 and 25, heretofore described.
	Set a trachyte stone, 15x12x6 ins., 10 ins. in the ground, for closing cor. of secs. 19 and 30, marked with cc. on E. 4 grooves on N. and 2 grooves on S. face; dig pits, 24x18x12 ins., crosswise on each line, N. and S., 3 ft., and E. of stone, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, E. of cor.
	Note: We destroy all marks on the cor. of secs. 24 and 25, which pertain to secs. 19 and 30.
	Land, mountainous and nearly level.
	Soil, sandy and gravelly loam; 2nd rate.
	Timber, cedar.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 166.50 chs.

N. 0° 3' W., bet. secs. 19 and 20.

Over mountainous land, through scattering cedar timber, and sage-brush; ascend.

27.50 Top of spur, 60 ft. above cor., bears E. and N.W.; descend.

40.00 Set a trachyte stone, 14x12x6 ins., 9 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; from which

Chains	
	A cedar, 6 ins. diam., bears N. 5° E., 15 lks. dist., marked ‡ S. 20, B.T.
	A cedar, 8 ins. diam., bears N. 85° W., 75 lks. dist., marked ‡ S. 19, B.T.
48.00	Wagon road leading from Nephi to Lemington, bears N. 80° W. and S. 80° E., in hollow, 50 ft. below ‡ sec. cor., course N. 80° W.; ascend
53.00	Top of spur, 40 ft. above hollow, bears N. 80° W. and S. 80° E.; descend.
61.50	Wash, 50 lks. wide, 10 ft. deep, course S.W. This wash drains Jerner valley.
80.00	Set a quartzite stone, 16 x 10 x 7 ins., 11 ins. in the ground, for the cor. of secs. 17, 18, 19, and 20, marked with 3 notches on S. and 5 notches on E. edges; from which
	A cedar, 5 ins. diam., bears S. 30° E., 110 lks. dist., marked T. 13 S., R. 2 W., S. 20, B.T.
	No other trees within limits; raise a mound of stone, 2 ft. base, 2 ft. high, W. of cor. Pits impracticable.
	Land, mountainous.
	Soil, sandy and gravelly loam; 2nd rate.
	Timber, cedar.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Mountainous land, 8000 chs.
	S. 89° 43' E., on a random line bet. secs. 17 and 20.
40.00	Set temp. ‡ sec. cor.
80.00	Intersect N. and S. line, at the cor. of secs. 16, 17, 20, and 21.

Chains	
	Thence we run N. 89°43' W., on a true line bet. secs. 17 and 20
	Over gently rolling land, through dense undergrowth, and scattering cedar timber; descend gently.
40.00	Set a blue limestone, 14 x 12 x 8 ins., 9 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which
	A cedar, 6 ins. diam., bears N. 45° W., 150 lks. dist., marked ¼ S. 17, B.T.
	A cedar, 14 ins. diam., bears S. 10° W., 70 lks. dist., marked ¼ S. 20, B.T.
74.50	Wash, 40 lks. wide, 10 ft. deep, course S. This is main wash in Tierner valley; ascend gently.
80.00	The cor. of secs. 17, 18, 19, and 20.
	Land, rolling.
	Soil, rich loam; 1st rate.
	Timber, scattering cedar.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Land covered with dense under growth, 80.00 chs.
	May 7, 1898: At this corner, we set off 16°59' N., on the dech: and at 0h 4m p. m., l. m. t., observe the sun on the meridian, the resulting lat. is 39°41' N.
	For reasons already explained we run West, on a true line bet. secs. 18 and 19.
	Over nearly level land, through dense undergrowth; gradually ascending.
18.05	Wagon road, bears N. 20° E. and S. 20° W.
19.20	Enter scattering cedar timber,

Chains	
	bears N. and S.
40.00	Set a trachyte stone, 18 x 14 x 8 ins., 12 ins in the ground, for ¼ sec. cor., marked ¼ on N. face; from which Cu cedar, 5 ins. diam., bears N. 75° W., 70 lks. dist., marked ¼ S. 18, B.T. Cu cedar, 18 ins. diam., bears S. 21° E., 31 lks. dist., marked ¼ S. 19, B.T.
60.00	Begin ascent of mountain, bears N. 25° E. and S. 25° W.; enter heavy cedar timber; leave dense undergrowth and scattering cedar timber, bears N. 25° E. and S. 25° W.
91.40	Top of divide ridge bet. Turner and Tintic valleys, 500 ft. above ¼ sec. cor., bears N. 10° W. and S. 10° E.; descend.
117.40	Leave heavy cedar timber; enter dense undergrowth, bears N. E. and S. W.
125.00	Foot of mountain, 500 ft. below ridge, bears N. and S.
166.40	Intersect E. bdy. of T. 13 S., R. 3 W., 60.81 chs. S. of the cor. of secs. 13 and 24, heretofore described. Set a quartzite stone, 16 x 9 x 6 ins., 11 ins. in the ground, for closing cor. of secs. 18 and 19, marked with C. C. on E., 3 grooves on N. and S. faces; and raise a mound of stone, 2 ft. base, 2 ft. high, E. of cor. Pits impracticable. Note: We destroy all marks on the cor. of secs. 13 and 24 which pertain to secs. 18 and 19. Land, mountainous and nearly level. Soil, sandy and gravelly loam; 2nd rate. Timber, cedar.

Chains	
	Undergrowth, sage-brush. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth, 166.40 chs.
	N. 0°3' W., bet. secs. 17 and 18. Over gently rolling land, through dense undergrowth and scattering cedar timber.
16.50	Leave scattering timber bears E. and W.
40.00	Set a blue limestone, 20x8x8 ins., 15 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 granite stone, 20x12x10 ins., 15 ins. in the ground, for cor. of secs. 7, 8, 17, and 18, marked with 4 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, nearly level valley. Soil, sandy loam; 2nd rate. Timber, scattering cedar. Undergrowth, sage-brush. Good grass for grazing. Land covered with dense undergrowth, 80.00 chs.
	S. 89°43' E., on a random line bet. secs. 8 and 17.
40.00	Set temp. ¼ sec. cor.
80.10	Intersect N. and S. line, 12 lks. S.

Chains	
	of the cor. of secs. 8, 9, 16, and 17.
	Thence we run
	N. 89° 48′ W., on a true line bet. secs. 8 and 17,
	Over rolling land, through dense undergrowth, and scattering cedar timber.
40.05	Set a quartzite stone, 16 x 12 x 10 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; dig pits, 12 x 12 x 12 ins., E. and W. of cor., 4 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
65.00	Leave scattering cedar timber, bears N. and S.
67.00	Wash, 60 lks. wide, 20 ft. deep, course S. 15° W.
80.10	The cor. of secs. 7, 8, 17, and 18.
	Land, nearly level.
	Soil, sandy loam; 2nd rate.
	Timber, cedar.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Land covered with dense undergrowth, 80.10 chs.
	May 7, 1898.

May 9, 1898: At 6h 57m a. m., l. m. t., we set off 39° 42′ N., on the lat. arc; 17° 29′ N., on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 7, 8, 17, and 18.

Thence we run, for reasons already explained, West, on a true line bet. secs. 7 and 18.

Over nearly level land, through dense undergrowth, gently

Chains	
	ascending.
7.30	Wagon road, bears N. 12° E. and S. 12° W.
40.00	Set a trachyte stone, 14 x 9 x 6 ins., 9 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; and raise a mound of stone, 2 ft. base, 2 ft. high, N. of cor. Pits impracticable. Begin ascent of mountain, bears N. and S.
50.30	Enters scattering cedar timber, bears N. and S.
92.20	Top of ridge, divide bet. Tintic and Tooele valleys, 450 ft. above ¼ sec. cor., bears N. and S.; descend
120.30	Foot of mountain, 500 ft. below ridge, bears N. and S.; leave scattering cedar timber, bears N. and S., thence gently descending
166.30	Intersect E. bdy. of T. 13 S., R. 3 W., 61.65 chs. S. of the cor. of secs. 12 and 13, heretofore described. Set a lime stone, 14 x 10 x 8 ins., 9 ins. in the ground, for closing cor. of secs. 7 and 18, marked with C.C. on E., 2 grooves on N. and 4 grooves on S. faces; and raise a mound of stone, 2 ft. base, 2 ft. high E. of cor. Pits impracticable. Note: We destroy all marks on the cor. of secs. 12 and 13, which pertain to secs. 7 and 18. Land, mountainous and nearly level. Soil, sandy and gravelly loam; 2nd rate. Timber, cedar. Undergrowth, sage-brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 166.30 chs.

Chains	
	N. 0° 9' W., bet. secs. 7 and 8. Over nearly level land, through dense sage-brush.
35.00	Old wagon road, bears N. 12° E. and S. 12° W.
40.00	Set a trachyte stone, 16 x 9 x 9 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ 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 blue limestone, 18 x 8 x 8 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, 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, nearly level.
	Soil, sandy loam; 2nd rate.
	No timber.
	Undergrowth, sage-brush.
	Land covered with dense under growth, 80.00 chs.
	May 9, 1898: At this corner, we set off 17° 32' N., on the decl. arc, and at 0h 3m p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 39° 42' N.
	S. 89° 48' E., on a random line bet. secs. 5 and 8.
40.00	Set temp. ¼ sec. cor.
80.20	Intersect N. and S. line at the cor. of secs. 4, 5, 8, and 9.
	Thence we run

Subdivision of T. 13 S., R. 2 W.—Continued.

Chains	
	N. 89° 48′ W., on a true line bet. secs. 5 and 8.
	Over nearly level land, through dense undergrowth.
40.10	Set a trachyte stone, 14 x 10 x 6 ins., 9 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.
68.50	Center of main wash in Jerner valley, 120 lks. wide, 25 ft. deep, course S.
78.50	Old road, bears N. and S.
80.20	The cor. of secs. 5, 6, 7, and 8.
	Land, nearly level.
	Soil, sandy loam; 2nd rate.
	No timber.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Land covered with dense undergrowth, 80.20 chs.

	For reasons already explained we run
	West, on a true line bet. secs. 6 and 7.
	Over nearly level land, through dense undergrowth; ascend gently.
40.00	Set a blue limestone, 12 x 12 x 6 ins., 8 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; and raise a mound of stone, 2 ft. base, 2 ft. high, N. of cor. Pits impracticable
48.15	Begin ascent of mountain, bears N. and S.; leave dense undergrowth; enter heavy cedar timber, bears N. and S.
85.00	Top of divide ridge bet. Jintic and Jerner valleys, 450 ft. above

Chains	
16 6.15	sec. cor. bears N. and S.; descend Intersect E. bdy. of T. 13 S., R. 3 W. 62.35 chs. S. of the cor. of secs. 1 and 12, heretofore described. Set a blue limestone, 20x7x7ins, 15 ins. in the ground, for closing cor. of secs. 6 and 7, marked with c.c. on E. 1 groove on N. and 5 grooves on S. faces; from which A cedar, 14 ins. diam., bears N. 31°30' E., 75 lks. dist., marked C.C. T. 13 S. R. 2 W. S. 6, B. T. A cedar, 14 ins. diam., bears S. 30° E. 20 lks. dist., marked C.C. T. 13 S. R. 2 W. S. 7, B.T.; and raise a mound of stone, 2 ft. base, 2 ft. high, E. of cor. Note: We destroy all marks on the cor. of secs. 1 and 12, which pertain to secs. 6 and 7. Land, mountainous and nearly level. Soil, sandy and gravelly loam; 2nd rate. Timber, cedar. Undergrowth, sage-brush. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense under- growth, 166.15 chs. May 9, 1898.

May 10, 1898: At 7h 33m a. m., l. m. t., we set off 39°42' N., on the lat. arc; 17°45' N., on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 5, 6, 7, and 8.

Chains	
	Thence we run N. 0°3' W., on a random line bet. secs. 5 and 6.
40.00	Set temp. ¼ sec. cor.
74.00	Intersect N. bdy. of Tp., at the cor. of secs. 5, 6, 31, and 32.
	Thence we run S. 0°3' E., on a true line bet. secs. 5 and 6.
	Over nearly level land, through dense undergrowth.
34.00	Set a trachyte stone, 18x9x9 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.
74.00	The cor. of secs. 5, 6, 7, and 8.
	Land, nearly level.
	Soil, sandy loam; 2nd rate.
	No timber.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Land covered with dense under growth, 74.00 chs.
	May 10, 1898.

General Description.

This township contains several varieties of land from level valleys to high mountains, and the soil ranges from rocky to rich sandy loam. The soil of Tintic, Tenner, and Dog valleys is a rich sandy loam, capable of producing good crops without irrigation.

The soil of the remaining portion of the township can

Chains

nearly all be classed as 2nd rate, is covered with an abundant growth of rich and nutritous grasses, and will produce good crops without irrigation.

A heavy growth of cedar is found in many parts of the township, and a great number of posts, for fencing purposes, are cut out every year.

The southern parts of Dog and Turner, and the eastern part of Tintic valleys extend partly into this township.

The road leading from Nephi to Lemington crosses the township from N. E. to S. W. The township is grazed principally by sheep, on account of the distance to water.

There are indications of mineral in secs. 21 and 22, but not sufficient to classify them as mineral lands.

We did not find Mary A. Grover's D. E. No. 906, she lives in Nephi, Utah, but is not now improving land in this township.

George C. Bean's D. E. No. 1656 is not being improved.

We did not find Henry Forrest's D. E. No. 1657.

There is a reservoir and a dug-out house in sec. 14.

There are no settlers now in this township.

Scott P. Stewart.
Andrew J. Stewart Jr.
U. S. Deputy Surveyors.

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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 .....

....., 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 .....

.....

showing the respective capacities in which they acted:

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

....., United States Deputy Surveyor, in surveying all those parts or portions of the .....

.....

.....

.....of the .....

..... meridian, ... of ....., 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 .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..., United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from ..... United States Surveyor General for ....., bearing date of the ..... day of ....., 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 Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

.....

.....

.....

..... of the .....

..... meridian, in the ..... of ....., 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 ..... 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.

.....

United States Deputy Surveyor.

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

.....

SEAL

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 23 1900., 189—

The foregoing field notes of the survey of The subdivisions of Township 13 South Range 2 West of the Salt Lake Base & Meridian, Utah.

executed by Scott P. Stewart & Andrew J. Stewart under ~~his~~ their contract No. 217, dated November 1st, 1897, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Jacob B. Blair

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.

BOOK A-257

K.J.B.

FIELD NOTES

OF THE SURVEY OF THE

West and South Boundaries

of

Township 14 South, Range 1 West

Of the Salt Lake Base and Meridian,

Utah.

AS SURVEYED BY

H. R. Gewart & Andrew J. Gewart Jr., United States Deputy Surveyors

under ~~his~~ their Contract No. 217, dated November 1st, 1897.

urvey commenced May 11th, 1898,

urvey completed May 13th, 1898,

6—151

NAMES AND DUTIES OF ASSISTANTS.

John P. Stewart, Chainman.

Daniel H. Y. McAllister, Chainman.

William W. Richardson, Jr. Chainman.

Alma Betts, Chainman.

Antone P. Stewart, Moundman.

Peter S. Sorensen, Moundman.

Benjamin F. Stewart, Axman.

Quimby Stewart, Flagman.

For preliminary affidavits see book "B"

6—151

(147) (A-257)

I 4 S R B

S Bdy #
1-00-00 ✗
2.47.60 ✓
3.47.60 ✗

Closing
28.24 ✓

Retirement
E Bdy
1-00-50 ✗
1 00 15 ✗
1 00.24 ✗
~~1-00-00~~
~~52-00~~
~~4.52.89~~
3-00.89 ✓

Survey - W - Bdy
high
M-Clerk Ho
1.00-00 ✓
1-00-00 ✓
52-00 ✓
2.52-00 ✗

Closing
1-50 ✓

Retirement N Bdy
1-00-68 ✓
1.00.90 ✓
1 01.17 ✓
100.82 ✓
100.65 ✓
5.04.22 ✓

PRELIMINARY OATHS OF ASSISTANTS.

WE, ... and .....
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 .....

..... *Chainman.*

..... *Chainman.*

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 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, ..., 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 .....

..... *Flagman.*

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

.....

SEAL

.....

6—151

South boundary of T. 14 S., R. 1 W.

Chains Survey commenced May 11, 1898, and executed with a W. and L. E. Gurley light mountain transit, No.-, with solar attachment, the horizontal limb having 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; and a Buff and Berger transit, No. 2511, the horizontal limb is provided with two double verniers reading to single minutes of arc.
The instruments were examined, tested on the true meridian at Salt Lake City, found correct, and were approved by the surveyor general for Utah, the former December 4, 1897, and the latter April 5, 1898
We examine the adjustments of the transits, and correct the level and collimation errors; then, to test the solar apparatus of the Gurley instrument, 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, we proceed as follows:
At the cor. of secs. 4, 5, 32, and 33, latitude 39°33' N., longitude 111°58' W.; We set off 39°33' N., on the lat. arc; 18°05' N., on the decl. arc; and, at 4h 0m p. m., l. m. t., determine a true meridian with the solar, of the Gurley instrument, and mark a point thereof on a stone, firmly set in the ground, 5 chs. N. of the cor.

May 11, 1898.

Chains

May 12, 1898: At 4h 4m a. m., l. m. t., we observe Polaris at eastern elongation, with the Buff and Berger instrument, in accordance with the Manual of Instructions, and mark a point in the line thus determined on a plug driven in the ground, 5 chs. N. of our station.

At 6h 15m a. m., l. m. t., we lay off the azimuth of Polaris 1°36'.8 to the west, on the Buff and Berger instrument, and mark the true meridian thus determined, by cutting a small groove in the stone set May 11, on which the true meridian falls 0.3 ins. east of the mark determined by the solar of the Gurley instrument.

At 6h 30m a. m., l. m. t., we lay off the azimuth of Polaris 1°36'.8 to the west, on the Gurley instrument, and mark the true meridian thus determined, by cutting a small groove in the stone set May 11, on which the true meridian falls 0.5 ins. east of the mark determined by the solar.

At 7h 3m a. m., l. m. t., we set off 39°33' N. on the lat. arc; 18°15' N., on the decl. arc; and mark a point in the true meridian determined with the solar, of the Gurley instrument, by a cross on the stone already set 5 chs. N. of our station; this mark falls 0.27 ins. east of the true meridian established by Polaris observation.

The solar apparatus, of the Gurley instrument, by p. m. and a. m. observations, defines positions for true meridians, respectively about 0."16 west and 0."14 east of the meridian established by Polaris observations,

Chains	
	therefore we conclude that the adjustments of the instruments are satisfactory.
	The ~~magnetic bearing~~ of the true meridian, at 8 h 0 m a. m. is N. 16°34' W.; the angle thus determined, reduced by the table, page 100, gives the ~~mean mag. decl.~~ 16°30' E.
	We begin at the cor. of secs. 4, 5, 32, and 33, which is a badly decayed post, marked and witnessed as described by the surveyor general. We reestablish the cor. as follows: Set a limestone, 16x8x6 ins., 11 ins. in the ground, for reestablished cor. of secs. 4, 5, 32, and 33, marked with 4 notches on E. and 2 notches on W. edges; and raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	Thence we run
	West, bet. secs. 5 and 32.
	Over mountainous land; ascend through sage-brush.
4.00	Wagon road, bears N. W. and S. E.
4.50	Wash, 10 lks. wide, course S. E.
7.00	Enter heavy cedar timber, bears N. and S.; leave dense undergrowth.
40.00	Set a quartzite stone, 18x14x8 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which
	A cedar, 6 ins. diam., bears N. 40° E., 94 lks. dist., marked ¼ S. 32, B. T.
	A cedar, 10 ins. diam., bears S. 16° E., 35 lks. dist., marked ¼ S. 5, B. T.
45.00	Leave heavy timber, bears N. and S.
52.50	Wash, 10 lks. wide, 1 ft. deep; course S. E.
65.00	Enter heavy cedar timber, bears

Chains	
	N. and S.
80.00	Set a limestone, 18 x 12 x 4 ins., 12 ins. in the ground, for cor. of secs. 5, 6, 31, and 32, marked with 5 notches on E. and 1 notch on W. edges; from which
	A cedar, 15 ins. diam., bears N. 42° E. 65 lks. dist., marked T. 14 S., R. 1 W., S. 32, B. T.
	A cedar, 5 ins. diam., bears S. 32° E. 100 lks. dist., marked T. 15 S., R. 1 W., S. 5, B. T.
	A cedar, 12 ins. diam., bears S. 24° W. 53 lks. dist., marked T. 15 S., R. 1 W., S. 6, B. T.
	A cedar, 4 ins. diam., bears N. 45° W., 38 lks. dist., marked T. 14 S., R. 1 W., S. 31, B. T.
	Land, rolling and mountainous. Soil, clay and gravelly loam; 2nd rate. Timber, cedar. Undergrowth, sage-brush. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.
	West, bet. secs. 6 and 31. Over mountainous land, through heavy cedar timber; ascend.
13.00	Top of ridge, 200 ft. above cor.; bears N. 10° E. and S. 10° W.; descend.
22.50	Bottom of hollow, 100 ft. below ridge, course N. E.; ascend.
40.00	Set a gray limestone, 20 x 12 x 4 ins., 15 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which

South boundary of T. 14 S., R. 1 W.-Concluded.

Chains	
	A cedar, 4 ins. diam., bears N. 50° E. 22 lks. dist., marked ± S. 31, B. T.
	A cedar, 5 ins. diam., bears S. 34 lks. dist., marked ± S. 6, B. T.
64.50	Top of divide ridge, bet. Juab and Sage valleys, 600 ft above valley, bears N. 22° E. and S. 27° W.; descend abruptly
72.15	Top of limestone ledge, 30 ft. high, bears N. 20° E. and S. 20° W.
95.00	Bottom of cañon, 350 ft. below ridge, course S. W.; leave cedar timber, bears N. E. and S. W.; enter sage-brush, bears N. E. and S. W.
128.00	Foot of mountain, 600 ft. below ridge, bears N. and S.; thence across Sage valley
166.00	Wagon road, bears N. and S.
173.00	Wash, 20 lks. wide, 6 ft. deep, course S.
190.48	Wash, 15 lks. wide, 5 ft. deep, course S. 5° W.
207.60	Intersect E. bdy. of T. 15 S., R. 2 W., 28.24 chs. S. 0° 30' W. of cor. of Tps. 14 and 15 S., R. 2 W., which is a quartzite stone, 8 x 13 x 5 ins., above ground, marked and witnessed as described by the surveyor general. We destroy all marks on the above described cor. that pertain to T. 14 S., R. 1 W. and T. 15 S., R. 1½ W. Set a quartzite stone, 20 x 20 x 5 ins., 15 ins. in the ground, for closing cor. of Tps. 14 S. R. 1 W. and 15 S., R. 1½ W., marked C. C. on E., 14 S. 1 W. on N., 15 S. 1½ W. on S.; with 6 grooves on N., E., and S., faces; dig pits, 30 x 24 x 12 ins., crosswise on each line, N., and S., 4 ft., and E. of stone, 8 ft. dist., and raise a mound of earth, 5 ft. base, 2½ ft. high, E. of cor.
	Land, mountainous and level.
	Soil, loam, gravelly and rocky; 1st 2nd and 4th rate.
	Timber, cedar.
	Undergrowth, sage-brush.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 207.60 chs.

Retracement of the E. bdy. of T. 14 S., R. 2 W.

Chains	
	Note: In order to locate the cor. of secs. 13 and 24, on E. bdy. of T. 14 S., R. 2 W., we retrace said bdy. as follows: From the cor. of Tps. 14 and 15 S., R. 2 W., heretofore described, We run
	North, on a retracement line along E. side of sec. 36, along E. bdy of T. 14 S., R. 2 W.
40.00	The ≠ sec. cor. on E. side of sec. 36, which is a quartzite stone, 12 x 6 x 4 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general, bears E. 40 lks. dist.; to perpetuate the cor. we 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.
80.50	The cor. of secs. 25 and 36, which is a quartz stone, 9 x 8 x 4 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general, bears E. 85 lks. dist.; to perpetuate the cor., we dig pits, 24 x 24 x 12 ins., in secs. 25 and 36, 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. The course of this line is therefore N. 0° 36' E.
	May 12, 1898: At the noon hour the sky is overcast and solar observations are impossible.
	North, on a retracement line along E. side of sec. 25.
40.10	The ≠ sec. cor. on E. side of sec. 25, which is a quartz stone, 12 x 6 x 5 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general, bears E. 38 lks. dist.; to

Retracement of the E. bdy. of T. 14 S., R. 2 W. - Continued.

		perpetuate the cor., we 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.
C	80.15	The cor. of secs. 24 and 25, which is a quartz stone, 12 x 5 x 5 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general, bears E. 88 lks. dist.; to perpetuate the cor., we dig pits, 24 x 24 x 12 ins., in secs. 24 and 25, 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. The course of this line is, therefore, N. 0° 38' E.
		north, on a retracement line, along E. side of sec. 24.
	40.14	The ¼ sec. cor. on E. side of sec. 24, which is a sandstone, 9 x 6 x 5 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general, bears E. 30 lks. dist.; to perpetuate the cor., we 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.
C	80.24	The cor. of secs. 13 and 24, which is a sandstone, 7 x 12 x 9 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general, bears E. 50 lks. dist.; to perpetuate the cor., we raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. The course of this line is, therefore, N. 0° 21' E.
		May 12, 1898.

West boundary of T. 14 S., R. 1 W.

Chains	
	May 13, 1898: At 4h 3m a. m., l. m. t., we set off 39°36' N., on the lat. arc; 18°30' N., on the decl. arc; and determine a true meridian with the solar at the cor. of secs. 13 and 24, on E. bdy. of T. 14 S., R. 2 W. Thence we run
	North, along the E. side of sec. 13. Over mountainous land, through scattering cedar timber and undergrowth; ascend.
30.00	Top of ridge, 150 ft. above cor., bears N. E. and S. W.; descend.
40.00	Set a trachyte stone, 22 x 12 x 8 ins., 16 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
42.00	Bottom of hollow, 100 ft. below ridge, course S. 60° E.; ascend.
45.00	Top of low ridge, 30 ft. above hollow, bears E. and W. Thence along W. side of hollow, course N.
80.00	Set a trachyte stone, 18 x 8 x 6 ins., 12 ins. in the ground, for cor. of secs. 12 and 13, marked with 2 notches on N. and 4 notches on S. edges; dig pits, 24 x 24 x 12 ins., in secs. 12 and 13, 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, mountainous.
	Soil, dark loam and gravelly; 1st and 3rd rate.
	Timber, scattering cedar.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Mountainous land, 80.00 chs.

West boundary of T. 14 S., R. 1 W. - Continued.

Chains	
	North, along E. side of sec. 12. Over nearly level land, through dense sage-brush; descend.
40.00	Set a quartzite stone, 18 x 12 x 6 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; and raise a mound of stone, 2 ft. base, 1½ high, W. of cor. Pits impracticable.
80.00	Set a trachyte stone, 16 x 8 x 4 ins., 11 ins. in the ground, for cor. of secs. 1 and 12, marked with 1 notch on N. and 5 notches on S. edges; dig pits, 24 x 24 x 12 ins., in secs. 1 and 12, 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, nearly level. Soil, clay loam; 1st rate. No timber. Undergrowth, sage brush. Good grass for grazing. Land covered with dense undergrowth, 80.00 chs.

	North, along E. side of sec. 1. Over nearly level land; through dense sage-brush.
15.50	Wagon road, bears N. 10° W. and S. 10° E.
16.25	Wash, 5 lks. wide, 3 ft. deep, course W.
40.00	Set a trachyte stone, 16 x 8 x 4 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ 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.
52.00	Intersect S. bdy. of T. 13 S., R. 2 W., 150 lks. E. of the ¼ sec. cor. on S.

West boundary of T. 14 S., R. 1 W.—Concluded.

Chains	
	side of sec. 35, heretofore described. Set a granite stone, 18 x 13 x 6 ins., 12 ins. in the ground, for closing cor. of Tp. 14 S., Rs. 1 and 2 W., marked C.C. 14 S. on S., 1 W. on E., 2 W. on W., with 6 grooves on S., E., and W. faces; dig pits, 30 x 24 x 12 ins., crossing on each line, E. and W., 4 ft., and S. of stone, 3 ft. dist.; and raise a mound of earth, 5 ft. base, 2½ ft. high, S. of cor.
	Land, nearly level.
	Soil, clay loam; 1st rate.
	No timber.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Land covered with dense undergrowth, 52.00 chs.
	May 13, 1898: At this corner, we set off 18°35′ N., on the decl. arc; and at 0h 4m p. m., l. m. t., observe the sun on the meridian, the resulting lat. is 39°39′ N.
	Note: We destroy all marks on cor. of T. 13 S., R. 1 and 2 W. which pertain to T. 14 S. Rs. 1 and 2 W.
	Note: Knowing from subsequent connections that discrepancies exist in the N. bdy. of this Tp., we retrace the boundary as follows:
	From the cor. of Tps. 13 S., Rs. 1 and 2 W., heretofore described we run East, on a retracement line along N. bdy. of T. 14 S., R. 1 W., bet. secs. 6 and 31.
40.32	The ≠ sec. cor. bet. secs. 6 and 31, which is a trachyte stone, 6 x 10 x 6 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general.
c 80.68	The cor. of secs. 5, 6, 31, and 32, which

Chains	
	is a quartzite stone, 6 x 7 x 9 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general. To perpetuate the cor., we raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	East, on a retracement line bet. secs. 5 and 32.
40.43	The ¼ sec. cor. bet. secs. 5 and 32, which is a granite stone, 5 x 10 x 6 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general. To perpetuate the cor., we raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impraticable.
80.90	The cor. of secs. 4, 5, 32, and 33, which is a quartzite stone, 20 x 15 x 10 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general. To perpetuate the cor., we raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	East, on a retracement line bet. secs. 4 and 33.
40.57	The ¼ sec. cor. bet. secs. 4 and 33, which is a quartz stone, 5 x 10 x 6 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general; To perpetuate the cor., we raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable

Retracement of the N. bdy. of T. 14 S., R. 1 W.-Continued.

81.17 The cor. of secs. 3, 4, 33, and 34, which is a quartzite stone, 10 x 6 x 5 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general. To perpetuate the cor., we raise a mound of stone, 2 ft. base 1½ ft. high, W. of cor. Pits impracticable.

East, on a retracement line bet. 3 and 34.

40.40 The ¼ sec. cor. bet. secs. 3 and 34, which is a granite stone, 6 x 6 x 4 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general. To perpetuate the cor., we raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.

80.82 The cor. of secs. 2, 3, 34, and 35, which is a sandstone, 10 x 6 x 5 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general. To perpetuate the cor., we raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable

East, on a retracement line bet. secs. 2 and 35.

40.30 The ¼ sec. cor. bet. secs. 2 and 35, which is a sandstone, 4 x 10 x 6 ins., above ground, and marked and witnessed as described by the surveyor general. To perpetuate the cor., we raise a mound of

Retracement of the N. bdy. of T. 14 S., R. 1 W.—Concluded.

Chains

stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.

✓ 80.65 The cor. of secs. 1, 2, 35, and 36, which is a sandstone, 6 x 10 x 8 ins., above ground, firmly set, and marked and witnessed as described by the surveyor-general. To perpetuate the cor. we raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.

May 13, 1898.

Boundaries of T. 14 S. R. 1 W.

Latitudes, departures, and closing errors.

Line designated		True bearing	Distance	Latitudes N.	Latitudes S.	Departures E.	Departures W.
			Chs.	Chs.	Chs.	Chs.	Chs.
E. bdy.	T. 14 S., R. 1 W.	South	480.00		480.00		
S. bdy.	T. 14 S., R. 1 W.	West	607.60				607.60
W. bdy.	T. 14 S., R. 1 W.	N. 0° 30' E.	28.24	28.24		0.25	
W. bdy.	T. 14 S., R. 1 W.	N. 0° 36' E.	80.50	80.50		0.85	
W. bdy.	T. 14 S., R. 1 W.	N. 0° 38' E.	80.15	80.15		0.88	
W. bdy.	T. 14 S., R. 1 W.	N. 0° 21' E.	80.24	80.24		0.50	
W. bdy.	T. 14 S., R. 1 W.	North	212.00	212.00			
N. bdy.	T. 14 S., R. 1 W.	East.	602.72			602.72	
Convergency						0.74	
Totals				481.13	480.00	605.94	607.60
				480.00			605.94
Error in lat.				1.13	Error in dep.		1.66

This fractional township is all mountainous excepting the western part, which is partly a level valley and partly low rolling hills. The township is well timbered, and the soil in the valley and hollows is very fertile. The township should be sub-divided.

Scott J. Stewart
Andrew J. Stewart Jr.
U. S. Deputy Surveyors.

May 13, 1898.

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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 .....

....., 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 .....

.....

showing the respective capacities in which they acted:

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

....., United States Deputy Surveyor, in surveying all those parts or portions of the .....

.....

.....

..... of the .....

..... meridian, ... of ....., 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 .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

.....

.....

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____, bearing date of the United States Surveyor General for _____, 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 Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____ _____ _____ _____ of the _____ meridian, in the _____ of _____, 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 _____ 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.

_____
United States Deputy Surveyor.

Subscribed by said _____, and sworn to before me this _____ day of _____, 189

_____

SEAL

_____

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah June 23 1905, ~~189~~

The foregoing field notes of the survey of the East & South Boundaries of Township 14 South Range 1 West of the Salt Lake Base & Meridian Utah

executed by Scott P. Stewart and Andrew J. Stewart Jr.
under ~~his~~ their contract No. 217, dated December 1st, 1897, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Jacob B. Blair
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-257

H.J.B.

FIELD NOTES

OF THE SURVEY OF THE

Subdivisions

of

Township 14 South, Range 1 West.

Of the Salt Lake Base and *Meridian,*

Utah.

AS SURVEYED BY

Scott Stewart & Andrew J. Stewart Jr., *United States Deputy Surveyors,*

Under ~~his~~ their *Contract No.* 217, *dated* November 1st, *1897.*

Survey commenced May 14th, *1898.*

Survey completed May 21st, *1898.*

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NAMES AND DUTIES OF ASSISTANTS.

John P. Stewart, Chainman.

Daniel H. Y. McAllister, Chainman.

William W. Richardson Jr., Chainman.

Alma Betts, Chainman.

Antone P. Stewart, Mounduman.

Peter S. Sorensen, Mounduman.

Benjamin F. Stewart Axman.

Quinby Stewart, Flagman.

For preliminary affidavits see book "A"

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The S. R. I. W.

H	L	Lib	Retrainment
1-00-33 ✓			79-40 ✓
1-00-00 ✓		Clay 1-35 ✓	100-30 ✓
79-80 ✓			79-58 ✓
100-00 ✓			100-28 ✓
79-52 ✓			100-80 ✓
101-48 ✓		2-75 ✓	100-94 ✓
40-00 ✓			100-20 ✓
40-10 ✓		1-00 ✓	1-00-00 ✓
1-00-00 ✓			
79-90 ✓		1-90 ✓	8.01.50 ✓
100-00 ✓			
79-65 ✓		2.35 ✓	
100-00 ✓			
79-60 ✓		2.75 ✓	
104.05 ✓		4.07 ✓	
100.00 ✓			
100-00 ✓			
46.15 ✓		28.80 ✓	
100.00 ✓			
79.70 ✓			
45.45 ✓		29.20 ✓	
100.00 ✓			
79.90 ✓			
44.37 ✓		30.60 ✓	
100.00 ✓			
79.70 ✓			
44.20 ✓		31.00 ✓	Roadway
100.00 ✓			40 ✓
100.00 ✓			40 ✓
44.10 ✓		31.10 ✓	1-00-00 ✓
103.55 ✓		4.85 ✓	
81.77 ✓		2.11.62 ✓	

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BOOK A-257

INDEX DIAGRAM.

Township 14 SOUTH, *Range* 1 WEST.

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36. 19 34.	35 20 19.	20. 21 14.	7. 22	23	24
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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 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

.....

....., *Chainman.*

....., *Chainman.*

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 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, ..., 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 .....

....., *Flagman.*

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

.....

SEAL

.....

Subdivision of T. 14 S., R. 1 W.

Chains Survey commenced May 14, 1898, and executed with a W. and L. E. Gurley light mountain transit, No.-, with solar attachment, the horizontal limb having 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; And a Buff and Berger transit, No. 2511, the horizontal limb is provided with two double verniers reading to single minutes of arc.

The instruments were examined, tested on the true meridian at Salt Lake City, found correct, and were approved by the surveyor general for Utah, the former on December 4, 1897, and the latter on April 5, 1898.

We examine the adjustments of the instruments and correct the level and collimation errors, then, to test the solar apparatus, of the Gurley instrument, 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, we proceed as follows:

At the cor. of secs. 2, 3, 10, and 11, latitude 39°38' N., longitude 111°56' W.; we set off 39°38' N., on the lat. arc; 18°49' N., on the decl. arc; and at 3h 30m p. m., l. m. t., determine a true meridian with the solar of the Gurley instrument, and mark a point thereof on a stone, firmly set in the ground,

Chains 5 chs. N. of the cor.

May 14, 1898.

May 16, 1898: At 3h 49m a. m., l. m. t., we observe Polaris at eastern elongation, with the Buff and Berger instrument, in accordance with the Manual of Instructions, and mark a point in the line thus determined on a plug driven in the ground, 5 chs. N. of our station. At 6h 33m a. m., l. m. t., we lay off the azimuth of Polaris 1° 36.8' to the west, on the Buff and Berger instrument, and mark the True Meridian thus determined, by cutting a small groove on the stone set May 14, 1898, on which the true meridian falls 0.35 ins. east of the mark determined by the solar, of the Gurley instrument. At 6h 40m a. m., l. m. t., we lay off the azimuth of Polaris 1° 36.8' to the west, on the Gurley instrument and mark the True Meridian thus determined by cutting a small groove in the stone, set May 14, 1898, on which the true meridian falls 0.35 ins. east of the mark determined by the solar.

At 7h 0m a. m., l. m. t., we set off 39° 38' N., on the lat. arc; 19° 13' N., on the decl. arc; and mark a point in the true meridian determined with the solar of the Gurley instrument, by a cross on the stone already set 5 chs. N. of our station; this mark falls 0.25 ins. east of the true meridian established

Chains by Polaris observation.
The solar apparatus of the Gurley instrument, by p. m. and a. m. observations, defines positions for true meridians, respectively about 0'18" west, and 0'13" east of the meridian established by Polaris observation, therefore we conclude that the adjustments of the instruments are satisfactory. The magnetic bearing of the true meridian, at 7h 30m a. m., l. m. t., is N. 16°35' W., the angle thus determined, reduced by the table, page 100, gives the mean. mag. decl. 16°31' E.

From the cor. of secs. 2, 3, 10, and 11, which is a partly decayed post marked and witnessed as described by the surveyor general, and which we reestablish as follows: Set a conglomerate stone, 18 x 8 x 8 ins., 12 ins. in the ground, for reestablished cor. of secs. 2, 3, 10, and 11, marked with 5 notches on S. and 2 notches on E. edges; from which
A. cedar, 8 ins. diam., bears N. 6½° E. 128 lks. dist., marked T. 14 S., R. 1 W., S. 2, 3 T.
A cedar, 8 ins. diam., bears N. 42° W. 100 lks. dist., marked T. 14 S., R. 1 W., S. 3, 3 T.
No other trees within limits; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
Thence we run
N. 0° 1' W., on a random line bet. secs. 2 and 3.

40.00 Set temp. ¼ sec. cor.
80.55 Intersect N. bdy. of Tp. 125 lks. E.

Subdivision of T. 14 S., R. 1 W. - Continued.

Chains	
	of the cor. of secs. 2, 3, 34, and 35, heretofore described.
	The falling is out of limits, therefore we set a sandstone, 16 x 8 x 6 ins., 11 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; and raise a mound of stone, 2½ ft. base, 2 ft. high, S. of cor. Pits impracticable.
	Thence we run
	S. 0° 1' E., on a true line bet. secs. 2 and 3.
	Over mountainous land, through dense undergrowth; descend.
14.00	Bottom of hollow, 50 ft. below cor., course E.; ascend.
35.00	Enter scattering cedar timber, bears E. and W.
40.55	Set a quartzite stone, 14 x 11 x 11 ins., 9 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; from which
	A cedar, 10 ins. diam., bears S. 26° E., 14 lks. dist., marked ¼ S. 2, B. T.
	A cedar, 4 ins. diam., bears N. 66° W. 35 lks. dist., marked ¼ S. 3, B. T.
42.25	Top of ridge, 150 ft. above hollow, bears N. W. and S. E.; descend.
54.75	Bottom of hollow, 80 ft. below ridge, course S. 60° E.; ascend.
80.55	The cor. of secs. 2, 3, 10, and 11.
	Land, mountainous.
	Soil, sandy and gravelly loam, 2nd rate.
	Timber, scattering cedar.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth.
	80.55 chs. Note: We destroy all marks on cor. of secs. 2, 3, 34, and 35, that pertain to secs. 2 and 3.

Subdivision of T. 14 S., R. 1 W.—Continued.

Chains	
	Note: On account of the line bet. secs. 2 and 3 closing on the N. bdy. of Tp. outside the prescribed limits, we conclude to retrace the line bet. secs. 2 and 11, therefore we run East, on a retracement line bet. secs. 2 and 11.
39.80	The ¼ sec. cor. bet. secs. 2 and 11, which is a decayed post marked and witnessed as described by the surveyor general, bears N. 18 lks. dist.; we reestablish the cor. at the same point as follows: Set a sandstone, 14 x 7 x 6 ins., 9 ins. in the ground, for reestablished 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.
79.40	The cor. of secs. 1, 2, 11, and 12, which is a greatly decayed post, marked and witnessed as described by the surveyor general, bears N. 38 lks. dist.; we reestablish the cor. at the same point as follows: Set a sandstone, 15 x 6 x 6 ins., 10 ins. in the ground, for reestablished cor. of secs. 1, 2, 11, and 12, marked with 5 notches on S. and 1 notch on E. edges; 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. The course of this line is therefore, N. 89° 44' E.
	Now: In order to properly locate and reestablish the corners on which we close in this Tp., we

Chains	
	commence at the cor. of secs. 2, 3, 10, and 11, Thence we run South, on a retracement line bet. secs. 10 and 11.
40.14	The ¼ sec. cor. bet. secs. 10 and 11, which is a greatly decayed post, marked and witnessed as described by the surveyor general. We destroy all traces of old cor. and reestablish it at the same point as follows: Set a quartzite stone, 18 x 6 x 6 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ 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.
80.30	The cor. of secs. 10, 11, 14, and 15, which is a greatly decayed post, marked and witnessed as described by the surveyor general. We destroy all traces of old cor. and reestablish it at the same point as follows: Set a quartzite stone, 18 x 10 x 10 ins., 12 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, 1½ ft. high. W. of cor. Pits impracticable.
	South, on a retracement line bet. secs. 14 and 15.
39.90	The ¼ sec. cor. bet. secs. 14 and 15, which is a greatly decayed post, marked and witnessed as described by the surveyor general, bears E. 15 lks. dist.; We destroy all traces of old cor. and reestablish it at the same point as follows:

Subdivision of S. 14 S., R. 1 W.-Continued.

Chains	
	Set a quartzite stone, 19x9x9 ins., 13 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; and raise a mound of stone, 2 ft. base, 1½ high, W. of cor. Pits impracticable.
79.58	The cor. of secs. 14, 15, 22, and 23, which is a badly decayed post, marked and witnessed as described by the surveyor general, bears E. 26 lks. dist. We destroy all traces of the old cor. and reestablish it at the same point as follows: Set a quartzite stone, 16x10x6 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. edges; and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Pits impracticable. The course of this line is therefore S. 0° 11' E. May 16, 1898: At this cor., we set off 19° 15' N., on the decl. arc; and at 0h 4m p. m., l. m. t., observe the sun on the meridian, the resulting lat. is 39° 36' N., which is about 0.37' greater than the proper lat.
	West, on a retracement line bet. secs. 15 and 22.
40.05	The ¼ sec. cor. bet. secs. 15 and 22, which is a greatly decayed post, marked and witnessed as described by the surveyor general, bears S., 10 lks. dist.; We destroy all traces of the old cor. and re-establish it at the same point as follows: Set a quartzite stone, 16x7x7 ins.,

Chains	
	11 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.
80.28	The cor. of secs. 15, 16, 21, and 22, which is a badly decayed post, marked and witnessed as described by the surveyor general, bears S., 19 lks. dist. We destroy all traces of old cor. and reestablish it at the same point as follows: Set a quartzite stone, 22 x 14 x 14 ins., 16 ins. in the ground, for cor. of secs. 15, 16, 21, and 22, marked with T. 14 S. on N. E.; and R. 1 W. on S. E. faces; with 3 notches on S., and E. edges; from which A cedar, 7 ins. diam., bears S. 82° W. 247 lks. dist., marked T. 14 S., R. 1 W., S. 21, 22 No other trees within limits; raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Pits impracticable. The course of this line is therefore S. 89° 52′ W.
	N. 0° 1′ W., bet. secs. 15 and 16. Over mountainous land, through dense undergrowth and scattering cedar timber, ascend.
15.00	Begin steep ascent, bears E. and W.
19.00	Top of spur, 50 ft. above sec. cor., bears E. and W.; thence along W. side of hollow, gently ascending.
30.00	Enter heavy cedar timber, bears E. and W.; leave undergrowth, bears E. and W.
40.00	Set a blue limestone, 18 x 10 x 10 ins., 12 ins. in the ground, for ¼ sec. cor.,

Subdivision of T. 14 S., R. 1 W.- Continued.

Chains	
	marked ± on W. face; from which
	A cedar, 8 ins. diam., bears N. 85° E., 18 lks. dist., marked ± S. 15, T. 3.
	A cedar, 10 ins. diam., bears N. 80° W., 22 lks. dist., marked ± S. 16, T. 3.
49.00	Top of smooth ridge, 100 ft. above ± sec. cor., bears N. W. and S. E.; descend.
80.00	Set a flint stone, 18 x 10 x 8 ins., 12 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; from which
	A cedar, 5 ins. diam., bears N. 53° E., 85 lks. dist., marked T. 14 S., R. 1 W., S. 10, T. 3.
	A cedar, 8 ins. diam., bears S. 20½° E., 24 lks. dist., marked T. 14 S., R. 1 W., S. 15, T. 3.
	A cedar, 5 ins. diam., bears N. 30° 45' W., 68 lks. dist., marked T. 14 S., R. 1 W., S. 9, T. 3.
	No other trees within limits; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	Land, mountainous.
	Soil, gravelly loam and rocky; 2nd and 4th rate.
	Timber, cedar.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.
	East, on a random line bet. secs. 10 and 15.
40.00	Set temp. ± sec. cor.
71.00	No trace of foot of mountain corner.
79.80	Intersect N. and S. line, at the cor. of secs. 10, 11, 14, and 15, heretofore described.
	Thence we run

Subdivision of T. 14 S., R. 1 W.- Continued.

Chains	
	West, on a true line bet. secs. 10 and 15
	Over mountainous land, through dense undergrowth and scattering cedar timber; - ascend.
6.50	Wood road, bears N. 20° W. and S. 20° E.
39.95	Set a quartzite stone, 14 X 10 X 8 ins., 9 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; and raise a mound of stone, 2½ ft. base, 2 ft. high, N. of cor. Pits impracticable.
42.00	Top of ridge, 150 ft. above sec. cor., bears N. 65° W. and S. 25° E.; descend.
67.00	Wood road, bears N. 70° W. and S. 70° E., in hollow, 80 ft. below ridge, course S. 70° E.; ascend.
79.80	The cor. of secs. 9, 10, 15, and 16.
	Land, mountainous.
	Soil, sandy and gravelly loam; 2nd rate.
	Timber, scattering cedar.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense under-growth, 79.80 chs.
	May 16, 1898.

May 17, 1898: At 7h 32m a. m., l. m. t., we set of 39° 37' N., on the lat. arc; 19° 26' N., on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 9, 10, 15, and 16.

Thence we run

N. 0° 01' W., bet. secs. 9 and 10.

	Over mountainous land, through scattering cedar timber and undergrowth; descend.
7.00	Bottom of hollow, 100 ft. below sec.

Subdivision of T. 14 S., R. 1 W. - Continued.

Chains	
	cor., course S. 68° E.; ascend.
8.25	Wood road, bears with hollow.
30.00	Top of ridge, 300 ft. above hollow, bears N. E. and S. W.; descend.
34.00	Bottom of hollow, 150 ft. below ridge, course S. W.; ascend.
40.00	Set a blue limestone, 18x12x8 ins, 12 ins. in the ground, for ± sec. cor., marked ± on W. face; from which A cedar, 7 ins. diam., bears S. 44° E. 60 lks. dist., marked ± S. 10, B. T. A cedar, 8 ins. diam., bears N. 25° W. 75 lks. dist., marked ± S. 9, B. T.
64.50	Top of winding ridge, 40 ft. above ± sec. cor., bears N. 14° W. and S. 14° E.; descend.
80.00	Set a trachyte stone, 16x8x6 ins., 11 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; from which A cedar, 8 ins. diam., bears S. 6° E., 130 lks. dist., marked T. 14 S., R. 1 W., S. 10, B. T. No other trees within limits; and raise a mound of stone, 2 ft. base, 1½ high, W. of cor. Pits impracticable. Land, mountainous. Soil, gravelly loam; 2nd rate. Timber, cedar. Undergrowth, sage-brush. Good grass for grazing. Mountainous land, 80.00 chs,

East, on a random line bet. secs. 3 and 10:

40.00	Set temp. ± sec. cor.
71.00	Find no trace of foot of mountain cor.
79.52	Intersect N. and S. line, 48 lks. S.

Subdivision of T. 14 S., R. 1 W.—Continued.

Chains	
	of cor. of secs. 2, 3, 10, and 11.
	Thence we run
	S. 89° 39' W., on a true line bet. secs. 3 and 10.
	Over mountainous land, through scattering cedar timber and undergrowth; ascend.
4.50	Ridge, 35 ft. above cor., bears N. W. and S. 10° E.; descend.
11.00	Bottom of hollow, 30 ft. below ridge, course S. 20° E.; ascend.
39.76	Set a quartzite stone, 16 x 8 x 8 ins., 11 ins. in the ground, for ± sec. cor., marked ± on N. face; from which
	A cedar, 12 ins. diam., bears N. 37° 30' E., 12 lks. dist., marked ± S. 3, B. T.
	A cedar, 4 ins. diam., bears S. 10° E. 18 lks. dist., marked ± S. 10, B. T.
	Enter heavy cedar timber, bears N. and S.
79.52	The cor. of secs. 3, 4, 9, and 10.
	Land, mountainous.
	Soil, sandy and gravelly loam; 2nd rate.
	Timber, cedar
	Undergrowth, sage-brush.
	Good grass for grazing.
	Mountainous or heavily timbered land, 79.52 chs.

Note: Knowing from precious connections that this line will not intersect the N. bdy. of Tp. within the prescribed limits for closing, We run

N. 0° 1' W., on a true line bet. secs. 3 and 4.

Over mountainous land, through scattering cedar timber, and under growth; ascend.

Subdivision of T. 14 S., R. 1 W. - Continued.

Chains	
3.00	Top of ridge, 20 ft. above cor., bears N. 28° E. and S. 28° W.; descend.
27.50	Wagon road, bears N. E. and S. 20° W., in hollow 300 ft. below ridge, course S. 20° W.; ascend.
38.50	Top of main ridge, 200 ft. above hollow, bears S. 10° E. and S. 80° W.; descend.
40.00	Set a trachyte stone, 18 x 10 x 7 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face, from which A cedar, 12 ins. diam., bears N. 23° E., 101 lks. dist., marked ¼ S. 3, T. 13 S. A cedar, 14 ins. diam., bears N. 29° W., 142 lks. dist., marked ¼ S. 4, T. 13 S.
77.00	Bottom of hollow, 350 ft. below ridge, course S. 85° E.; ascend.
< 81.48	Intersect N. bdy. of Tp. 275 lks. E. of the cor. of secs. 3, 4, 33, and 34, heretofore described. Set a quartzite stone, 17 x 14 x 10 ins., 11 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; from which A cedar, 6 ins. diam., bears S. 55° E., 30 lks. dist., marked C. C. T. 14 S. R. 1 W. S. 3 B. T.
	No other trees within limits; raise a mound of stone, 2 ft. base, 1½ high, S. of cor. Pits impracticable. Note: We destroy all marks on the cor. of secs. 3, 4, 33, and 34, which pertain to secs. 3 and 4. Land, mountainous. Soil, clay and gravelly loam; 2nd rate. Timber, cedar. Undergrowth, sage-brush.

Subdivision of T. 14 S., R. 1 W.-Continued.

Chains Good grass for grazing.
Mountainous Land, 81.48 chs.

From the cor. of secs. 15, 16, 21, and 22, heretofore described; We run South, on a retracement line bet. secs. 21 and 22.

40.40 The ¼ sec. cor. bet. secs. 21 and 22, which is a greatly decayed post, marked and witnessed as described by the surveyor general; We destroy all traces of old cor. and reestablish it at the same point as follows:
Set a white flint stone, 16x8x6 ins., 11 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.

80.80 The cor. of secs. 21, 22, 27, and 28, which is a greatly decayed post, marked and witnessed as described by the surveyor general. We destroy all traces of old cor. and reestablish it at the same point as follows:
Set a sandstone, 16x12x5 ins., 11 ins. in the ground, for cor. of secs. 21, 22, 27, and 28, marked with 2 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.

South, on a retracement line

Chains	
	bet. secs. 27 and 28.
40.50	The ¼ sec. cor. bet. secs. 27 and 28, which is a greatly decayed post, marked and witnessed as described by the surveyor general, bears E. 9 lks. dist. We destroy all traces of old cor., and reestablish it at the same point as follows: Set a quartzite stone, 16 x 9 x 6 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ 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.
80.94	The cor. of secs. 27, 28, 33, and 34, which is a greatly decayed post, marked and witnessed as described by the surveyor general, bears E. 16 lks. dist. We destroy all traces of old cor., and reestablish it at the same point as follows: Set a quartzite stone, 18 x 12 x 10 ins., 12 ins. in the ground, for cor. of secs. 27, 28, 33, and 34, marked with 1 notch 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. The course of this line is therefore S. 0° 7' E.
	West, on a retracement line bet. secs. 28 and 33.
40.00	The ¼ sec. cor. bet. secs. 28 and 33, which is a greatly decayed post, marked and witnessed as des-

Chains	
	cribed by the surveyor general, bears S. 8 lks. dist. We destroy all traces of old cor., and reestablish it at the same point as follows; Set a quartzite stone, 14 X 10 X 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, N. of cor. Pits impracticable.
80.20	The cor. of secs. 28, 29, 32, and 33, which is a greatly decayed post, marked and witnessed as described by the surveyor general, bears S. 19 lks. dist. We destroy all traces of old cor. and reestablish it at the same point as follows: Set a quartzite stone, 16 X 12 X 6 ins., 11 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; from which A cedar, 8 ins. diam., bears N. 40° E., 42 lks. dist., marked T. 14 S., R. 1 W., S. 28, B.T. A cedar, 6 ins. diam., bears S. 66° E. 30 lks. dist., marked T. 14 S., R. 1 W., S. 33, B.T. A cedar, 10 ins. diam., bears N. 30° W., 45 lks. dist., marked T. 14 S., R. 1 W., S. 29, B.T. No other trees within limits; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. The course of this line is therefore S. 89° 52' W.
	South, on a retracement line bet. secs. 32 and 33.
40.00	The ¼ sec. cor. bet. secs. 32 and 33, which is a badly decayed post, marked and witnessed as described by

Chains.	
	the surveyor general, bears E. 10 lks. dist. We destroy all traces of old cor. and restablish it at the same point as follows; Set a blue limestone, 16 x 12 x 8 ins., 11 ins. in the ground, for ± sec. cor., marked ± on W. face; from which A cedar, 8 ins. diam., bears N. 39° E. 160 lks. dist., marked ± S. 33, T. 3. No other trees within limits; raise a mound of stone, 2 ft. base, 1½ high W. of cor. Pits impracticable.
C 80.00	The cor. of secs. 4, 5, 32, and 33, on S. bdy. of Tp. heretofore described, bears E. 21 lks. dist. The course of this line is therefore S. 0° 9' E. May 17, 1898.
	May 18, 1898: At 7h 2m a. m., l. m. t., we set off 39° 34' N., on the lat. arc, 19° 40' N., on the decl. arc, and determine a true meridian with the solar, at the reestablished cor. of secs. 28, 29, 32, and 33, heretofore described. Thence we run North, on a resurvey line bet. secs. 28 and 29. Over rolling foot hills, through scattering cedar timber and undergrowth.
36.00	Enter heavy cedar timber, bears E. and W.
40.00	We find no trace of ± sec. cor., after searching diligently; therefore we Set a sandstone, 24 x 14 x 8 ins., 18 ins. in the ground, for ± sec. cor., marked ± on W. face; from which A cedar, 5 ins. diam., bears S. 30° E. 55 lks. dist., marked ± S. 28, T. 3. A cedar, 3 ins. diam., bears N. 80° W.

Subdivision of T. 14 S., R. 1 W. - Continued.

Chains	
	15 lks. dist., marked ± S. 29, B. T.
59.00	Top of low ridge, bears E. and W.; descend.
61.75	Wood road, bears E. and W.
75.00	Find no trace of cor.
76.00	Leave cedar timber, bears E. and W.
78.00	Wash, 50 ft. below ridge; course E.
80.00	Set a blue limestone, 18 x 10 x 6 ins., 12 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 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, rolling.
	Soil, sandy and clay loam; 2nd rate.
	Timber, cedar.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Heavily timbered land, 40.00 chs.

	East, on a random line bet. secs. 21 and 28.
13.00	Find no trace of foot of mountain cor.
40.00	Find no trace of ± sec. cor. Set temp. ± sec. cor.
80.10	Intersect N. and S. line, 100 lks. S. 0°.7' E. of reestablished cor. of secs. 21, 22, 27, and 28, heretofore described. The falling out of limits therefore, We run
	West, on a true line bet. secs 21 and 28.
	Over land gently ascending to the west, through dense sage-brush
40.00	Set a sandstone, 20 x 14 x 6 ins., 15 ins. in the ground, for reestablished ± sec. cor., marked ± on N. face; dig pits, 18 x 18 x 12 ins., E. and W. of stone, 3 ft. dist.; and raise a mound of

Chains	
	earth, 3½ ft. base, 1½ ft. high, N. of cor.
65.00	Wood road, bears N. E. and S. 10° W.
80.10	Intersect N. and S. line, 100 lks. N. 0° 1' W. from the cor. of secs. 20, 21, 28, and 29.
	Set a trachyte stone, 17 x 12 x 6 ins., 11 ins. in the ground, for closing cor., of secs. 21 and 28, marked C.C., on E.; with 2 grooves on S., and 4 grooves on E. faces; dig pits, 24 x 18 x 12 ins., crosswise on each line, N. and S., 3 ft., and E. of stone, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, E. of cor.
	Note: We destroy all marks on the cor. of secs. 20, 21, 28, and 29, which pertain to secs. 21 and 28.
	Land, nearly level.
	Soil, sandy loam; 2nd rate.
	No timber.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Land, covered with dense undergrowth, 80.10 chs.

	N. 0° 1' W., bet. secs. 20 and 21.
	Over rolling foot hills, through dense undergrowth and scattering cedar timber; ascend gently.
1.00	The closing cor. of secs. 21 and 28.
12.00	Enter heavy cedar timber, bears E. and W.; leave undergrowth, bears E. and W.
20.00	Top of smooth ridge, 30 ft. above cor., bears E. and W.; descend.
40.00	Set a limestone, 22 x 12 x 10 ins., 16 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; from which
	A cedar, 6 ins. diam., bears S. 35° E. 32 lks. dist., marked ¼ S. 21, T. 3.
	A cedar, 5 ins. diam., bears S. 5° W.

Subdivision of T. 14 S., R. 1 W.—Continued.

Chains 5 lks. dist., marked ± S. 20, T. 3.

43.00 Leave timber, bears E. and W.; enter dense undergrowth, bears E. and W.

53.50 Wash, 10 lks. wide, 2 ft. deep, course E.; ascend.

65.00 Spur, 30 ft. above wash, bears E. and W; descend.

68.00 Bottom of swale, 20 ft. below spur, course E.; ascend.

75.00 Leave undergrowth, bears E. and W.; enter heavy timber, bears E. and W.

80.00 Set a conglomerate stone, 20 x 10 x 6 ins., 15 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; from which

Cu cedar, 7 ins. diam., bears S. 48° E., 300 lks. dist., marked T. 14 S., R. 1 W. S. 21, T. 3 S.

Cu cedar, 12 ins. diam., bears S. 39° W. 142 lks. dist., marked T. 14 S., R. 1 W. S. 20, T. 3 S.

Cu cedar, 14 ins. diam., bears N. 70° W., 109 lks. dist., marked T. 14 S., R. 1 W., S. 17, T. 3 S.

No tree within limits in secs. 16; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.

Land, rolling foot hills.

Soil, clay loam; 2nd rate.

Timber, cedar.

Undergrowth, sage-brush.

Good grass for grazing.

Sparsely timbered land, or land covered with dense undergrowth, 80.00 chs.

E. at, on a random line bets. secs. 16 and 21.

40.00 Set temp. ± sec. cor.

45.00 We find no trace of foot of mountain cor.

79.90 Intersect N. and S. line, 190 lks. S.

Subdivision of T. 14 S., R. 1 W. - Continued.

Chains	
	of the cor. of secs. 15, 16, 21, and 22, heretofore described.
	Thence we run
	West, on a true line bet. secs. 16 and 21.
	Over rolling land, through dense undergrowth and scattering cedar timber. ascend gently.
20.00	Top of ridge, 40 ft. above sec. cor., bears N. and S.; descend.
24.30	Wood road, bears N. and S. 20° E.
25.80	Wash, 30 lks. wide, 15 ft. deep, course S. 20° E.
39.95	Set a quartzite, stone, 18 x 9 x 6 ins., 12 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.
54.00	Road leading from Levan to Sage valley, bears N. 70° W. and S. 70° E.
79.90	Intersect N. and S. line, 190 lks. N. 0° 1' W. from the cor. of secs. 16, 17, 20 and 21.
	Set a conglomerate stone, 16 x 9 x 8 ins., 11 ins. in the ground, for closing cor. of secs. 16 and 21, marked C.C. on E.; with 3 grooves on S., and 4 grooves on E. faces; and raise a mound of stone, 2 ft. base 1½ ft. high, E. of cor. Pits impracticable.
	Note: We destroy all marks on the cor. of secs. 16, 17, 20, and 21, which pertain to secs. 16 and 21.
	Land, rolling.
	Soil, clay loam; 2nd rate.
	Timber, cedar.
	Undergrowth, sage brush.
	Good grass for grazing.
	Land covered with dense undergrowth, 79.90 chs.
	May 18, 1898: At this cor., we set off

Subdivision of T. 14 S., R. 1 W.—Continued.

19°42' N., on the decl. arc; and, at 11h 55m a.m., l. m. t., observe the sun on the meridian; the resulting t. is 39°36' N. which is about 0.37 greater than the proper lat.

N. 0°1' W., from the cor. of secs. 17 and 20, bet. secs. 16 and 17.
Over mountainous land, through dense undergrowth, descend.
1.90 The closing cor. of secs. 16 and 21.
13.25 Wood road, from Levan to Sage valley, ars N. 70° W. and S. 70° E.; in hollow, 30 ft. below sec. cor., course S. 70° E.; leave dense undergrowth, bears N. 70° W. and S. 70° E.; ascend.
28.00 Top of ridge, 75 ft. above hollow, bears S. E. and N. W.; enter scattering timber, bears N. E. and S. W.; descend.
40.00 Set a blue limestone, 18x8x8 ins., 12 ins. in the ground, for ± sec. cor., ± on W. face; from which
A cedar, 8 ins. diam., bears N. 76° E., 52 lks. dist., marked ± S. 16, T. 3.
A cedar, 12 ins. diam., bears S. 57° W., 11 lks. dist., marked ± S. 17, T. 3.
47.60 Bottom of hollow, 50 ft. below ridge, course S. 70° E.; ascend.
67.50 Ridge, 300 ft. above hollow, bears N. 70° W. and S. 70° E.; descend.
80.00 Set a trachyte stone, 18x10x10 ins., 12 ins. in the ground, for cor. of secs. 8, 9, 16, and 17, marked with 4 notches on S. and E. edges; and raise a mound of stone, 2 ft. 1½ ft. high, W. of cor. Pits impracticable.
Land, mountainous.
Soil, clay and gravelly loam; 2nd rate.

Subdivision of T. 14 S., R. 1 W. - Continued.

Chains	
	Timber, scattering cedar. Undergrowth, sage-brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 80.00 chs.
	East, on a random line bet. secs. 9 and 16.
40.00	Set temp. ¼ sec. cor.
79.65	Intersect N. and S. line, 2.35 chs. S. 0° 1' E. of the cor. of secs. 9, 10, 15, and 16. Set a trachyte stone, 18 x 10 x 8 ins., 12 ins. in the ground, for closing cor. of secs. 9 and 16, marked C.C. on W.; with 4 grooves on S., and 3 grooves on E. faces; and raise a mound of stone, 2 ft. base, 2 ft. high, W. of cor. Pits impracticable. Note: We destroy all marks on the cor. of secs. 9, 10, 15, and 16, which pertain to secs. 9 and 16. Thence we run West, on a true line bet. secs. 9 and 16. Over mountainous land, through scattering cedar timber.
29.90	Top of ridge, 250 ft. above cor., bears N.W. and S.E.; enter heavy cedar timber, bears N.W. and S.E.; descend.
39.82	Set a trachyte stone, 18 x 8 x 7 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which A cedar, 8 ins. diam., bears N. 46° W., 3 lks. dist., marked ¼ S. 9, B.T. A cedar, 10 ins. diam., bears S. 40° E., 4 lks. dist., marked ¼ S. 16, B.T.
55.15	Hollow, 200 ft. below ridge, course S. 43° E.; ascend.

Subdivision of S. 14 S., R. 1 W. - Continued.

Chains	
67.00	Top of ridge, 200 ft. above hollow, bears N. 15° W. and S. E.; leave heavy cedar timber, bears with ridge; descend.
77.30	Wood road, bears N. 40° W. and S. 40° E., in hollow, 150 ft. below ridge, course S. 40° E.; ascend.
79.65	The cor. of secs. 8, 9, 16, and 17.
	Land, mountainous.
	Soil, clay and gravelly loam, 2nd rate.
	Timber, cedar.
	Good grass for grazing.
	Mountainous or heavily timbered land, 79.65 chs.

	N. 0° 1' W., bet. secs. 8 and 9.
	Over mountainous land, through scattering cedar timber and undergrowth; descend.
.62	A cedar, 8 ins. diam., on line, We
"	mark with 2 notches on N. and S. sides.
4.10	Wood road, bears N. W. and S. E.
5.00	Bottom of hollow, 40 ft. below sec. cor., course S. 18° E.; ascend.
19.00	Top of ridge, 200 ft. above hollow, bears N. 26° E. and S. 26° W.; descend.
25.00	Bottom of hollow, 100 ft. below ridge, course S. 40° W.; ascend.
40.00	Set a trachyte stone, 18 x 8 x 8 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; from which
	A cedar, 6 ins. diam., bears S. 70° E., 15 lks. dist., marked ¼ S. 9, B. T.
	A cedar, 8 ins. diam., bears S. 53° W., 36 lks. dist., marked ¼ S. 8, B. T.
45.50	Top of ridge, 40 ft. above ¼ sec. cor., bears N. E. and S. W.; descend.
52.75	Hollow, 100 ft. below ridge, course S. W.; ascend.

Subdivision of T. 14 S., R. 1 W. - Continued.

80.00 Set a granite stone, 18 x 8 x 6 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; from which

A cedar, 10 ins. diam., bears S. 12° 30' W., 154 lks. dist., marked T. 14 S., R. 1 W., S. 8, T.B.T.

A cedar, 5 ins. diam., bears N. 65° 30' W., 60 lks. dist., marked T. 14 S., R. 1 W., S. 5, T.B.T.

No other trees within limits; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.

Land, mountainous.

Soil, clay and gravelly loam; 2nd rate.

Timber, cedar.

Undergrowth, sage-brush.

Good grass for grazing.

Mountainous land, 80.00 chs.

East, on a random line bet. secs. 4 and 9.

40.00 Set temp. ¼ sec. cor.

79.60 Intersect N. and S. line, 275 lks. S. 0° 1' E. of cor. of secs. 3, 4, 9, and 10.

Set a trachyte stone, 16 x 8 x 8 ins., 11 ins. in the ground, for closing cor. of secs. 4 and 9, marked C.C. on W.; with 5 grooves on S. and 3 grooves on E. faces; and raise a mound of stone, 2 ft. base, 2 ft. high, W. of cor. Pits impracticable.

Note: We destroy all marks on the cor. of secs. 3, 4, 9, and 10, which pertain to secs. 4 and 9.

Thence we run

West, on a true line bet. secs.

Subdivision of T. 14 S., R. 1 W.—Continued.

4 and 9.
Over mountainous land, through
cattering cedar timber; ascend.
2.40 Top of ridge, 20 ft. above cor., bears N.
28° E. and S. 14° E.; descend.
13.65 Wood road, bears N. W. and S. E., in
bottom of hollow, 300 ft. below ridge
course S. E.; ascend.
30.30 Top of ridge, 200 ft. above hollow, bears
N. 20° W. and S. 20° E.; descend.
39.80 Set a trachyte stone, 16 x 8 x 7 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.
41.20 Bottom of hollow, 100 ft. below ridge
course S. 20° E.; ascend.
45.00 Ridge, 30 ft. above hollow, bears
N. 20° W. and S. 20° E.; descend.
49.25 Bottom of hollow, 75 ft. below ridge,
course S. 10° E.; ascend.
51.30 Water trough, 2 lks. wide, 1 ft. deep, course
S.; a small spring of good water bears
N. 20 lks. dist.
67.40 Top of ridge, 175 ft. above hollow, bears
N. 18° W. and S. 18° E.; descend.
75.20 Bottom of hollow, 75 ft. below ridge,
course S. 10° E.; ascend.
79.60 The cor. of secs. 4, 5, 8, and 9.
Land, mountainous.
Soil, clay and gravelly loam, 2nd rate.
Timber, cedar.
Good grass for graizing.
Mountainous land 79.60 chs.

Note: For reasons already explained
We run
N. 0° 2' W., on a true line bet. secs. 4 and 5.
Over mountainous land, through

Subdivision of T. 14 S., R. 1 W. - Continued.

Chains	
	scattering cedar timber, and sage brush; ascend.
21.00	Top of main ridge, 80 ft. above sec. cor., bears N. E. and S. W.; descend.
31.00	Bottom of hollow, 125 ft. below ridge, course S. 60° W.; ascend.
40.00	Set a trachyte stone, 18 x 14 x 7 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; from which A cedar, 6 ins. diam., bears N. 67° 30' E., 14 lks. dist., marked ¼ S. 4, T. 3. A cedar, 14 ins. diam., bears N. 65° W., 150 lks. dist., marked ¼ S. 5, T. 3.
50.00	Top of ridge, 60 ft. above ¼ sec. cor., bears N. E. and S. W.; descend.
84.05	Intersect N. bdy. of Tp., 407 lks. E. of cor. of secs. 4, 5, 32, and 33, heretofore described. Set a trachyte stone, 18 x 10 x 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. faces; and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor. Pits impracticable. Note: We destroy all marks on the cor. of secs. 4, 5, 32, and 33, which pertain to secs. 4 and 5. Land, mountainous. Soil, clay and gravelly loam; 2nd rate. Timber, scattering cedar. Good grass for grazing. Mountainous land, 84.05 chs. May 18, 1898.

May 19, 1898. At 6h 58m a. m., l. m. t., we set off 39° 33' N., on the lat. arc., 19° 53' N., on the decl. arc; and determine a true meridian with the solar

Subdivision of T. 14 S., R. 1 W.—Continued.

Chains at the cor. of secs. 5, 6, 31, and 32, on
S. bdy. of Tp.
hence we run
N. 0° 1" W., bet. secs. 31 and 32.
Over mountainous land, through
heavy cedar timber; descend.
9.00 Bottom of hollow, 150 ft. below ridge
course E.; ascend.
31.00 Top of sharp ridge 200 ft. above hollow,
bears N. 30° E. and S. 30° W.; descend.
40.00 Set a trachyte stone, 18 x 10 x 8 ins., 12
in the ground, for ¼ sec. cor.,
marked ¼ on W. face; from which
A cedar, 14 ins. diam., bears S. 70°
E., 140 lks. dist., marked ¼ S. 32, B.T.
A cedar, 4 ins. diam., bears N. 45° W.,
30 lks. dist., marked ¼ S. 31, B.T.
40.50 Bottom of hollow, 100 ft. below ridge,
course S. 10° W.; ascend.
77.84 Wood road on top of ridge, 60 ft. above
hollow, bears E. and W.; descend.
80.00 Set a trachyte stone, 18 x 12 x 8 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;
from which
A cedar, 6 ins. diam., bears S. 62° W.,
38 lks. dist., marked T. 14 S., R. 1 W., S. 31, B.T.
A cedar, 8 ins. diam., bears N. 50° W.,
30 lks. dist., marked T. 14 S., R. 1 W., S. 30, B.T.
No other trees within limits; raise
a mound of stone, 2 ft. base, 2 ft. high,
W. of cor. Pits impracticable.
and, mountainous.
Soil, clay and gravelly loam; 2nd
Timber, cedar.
Good grass for grazing.
Mountainous or heavily timbered land, 80.00 chs.

Subdivision of T. 14 S., R. 1 W. - Continued.

Chains	East, on a random line bet. secs. 29 and 32.
40.00	Set temp. ¼ sec. cor.
59.00	Find no trace of foot of mountain cor.
80.00	Intersect N. and S. line, 40 lks. N. of cor. of secs. 28, 29, 32, and 33, heretofore described.
	Thence we run
	N. 89° 43' W., on a true line bet. secs. 29 and 32
	Over ascending land, through dense undergrowth, and scattering timber.
40.00	Set a trachyte stone, 18 x 14 x 10 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which
	A cedar, 14 ins. diam., bears N. 42° E., 107 lks. dist., marked ¼ S. 29, B.T.
	A cedar, 14 ins. diam., bears S. 70° W., 115 lks. dist., marked ¼ S. 32, B.T.;
	begin ascent of mountain, bears N. and S.
42.00	Leave undergrowth and enter heavy cedar timber, bears N. and S.
57.80	Top of perpendicular ledge of blue limestone, 20 ft. high, on ridge, 200 ft. above ¼ sec. cor., bears N. 10° W. and S. 10° E.; descend abruptly.
66.50	Wood road, bears N. 10° W. and S. 10° E., in hollow 200 ft. below ridge, course S. 10° E.; ascend.
80.00	The cor. of secs. 29, 30, 31, and 32.
	Land, mountainous and nearly level.
	Soil, clay and gravelly loam; 2nd rate.
	Timber, cedar.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Mountainous or heavily timber land, or land covered with dense undergrowth, 80.00 chs.

Note: Knowing from former connections that we will not close with

Subdivision of T. 14 S., R. 1 W. - Continued.

Chains	
	in limits on the W. bdy. of Tp. we run
	West, on a true line bet. sec. 30 and 31. Over mountainous land, through heavy cedar timber; ascend.
35.00	Top of divide ridge, bet. Juab and Sage valleys, 600 ft. above sec. cor., bears N. and S.; leave heavy timber and enter scattering timber, bears N. and S.; descend.
40.00	Set a limestone, 20x18x9 ins., 15 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which
	A cedar, 8 ins. diam., bears S. 20° W. 110 lks. dist., marked ¼ S. 31, T. T.
	No other trees within limits; raise a mound of stone, 3 ft. base, 3 ft. high, N. of cor. Pits impracticable.
9.0.00	Foot of mountain, 600 ft. below ridge bears N. and S. 20° W.; thence across Sage valley; enter dense under-growth, bears N. and S. 20° W.; leave scattering timber.
128.50	Wood road, bears N. [illegible] E. and S. [illegible] W.
134.00	Wash, 20 lks. wide, 4 ft. deep, course S. 20° W.
177.00	Wash, 50 lks. wide, 4 ft. deep, course S. 16° W.
206.15	Intersect W. bdy. of Tp., 28.80 chs. S. 0° 36' W. of cor. of secs. 25 and 36, heretofore described.
	Set a quartzite stone, 16x12x8 ins., 11 ins. in the ground, for closing cor. of secs. 30 and 31, marked C.C. on E., with 5 grooves on N., and 1 groove on S. faces; from which
	A lone cedar, 12 ins. diam., bears S. 37° 30' E., 120 lks. dist., marked C. C., T. 14 S., R. 1 W., S. 31, T. T.;
	dig pits, 24x18x12 ins., crosswise on each line, N. and S., 3 ft., and E. of stone, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, E. of cor.

Subdivision of T. 14 S., R. 1 W. - Continued.

Chains	
	Note: We destroy all marks on the cor. of secs. 25 and 36 which pertain to secs. 30 and 31.
	Land, mountainous and nearly level
	Soil, sandy, clay, and gravelly loam; 2nd rate
	Timber, cedar.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 206.15 chs.
	May 19, 1898: At this cor., we set off 19°54' N., on the decl. arc; and at 12h 4m p. m., l. m. t., observe the sun on the meridian; the resulting lat. is 39°34' N.; which is about 0'.13 greater than the proper lat.
	N. 0°1' W., bet. secs. 29 and 30.
	Over mountainous land, through heavy cedar timber; descend.
.75	Bottom of hollow, 10 ft. below cor, course N. 80° E.; ascend.
7.00	Wood road on top of ridge, 30 ft. above hollow, bears E. and W.; descend.
29.00	Bottom of hollow, 50 ft. below ridge, course S. E.; ascend.
40.00	Set a trachyte stone, 20 x 10 x 6 ins., 15 ins. in the ground, for ± sec. cor., marked ~~T~~ on W. face; from which
	A cedar, 20 ins. diam., bears N. 70° E., 40 lks. dist., marked ± S. 29, B.T.
	A cedar, 8 ins. diam., bears N. 40° W., 20 lks. dist., marked ± S. 30 B.T.
57.50	Spur, 50 ft. above ± sec. cor., bears N. E. and S. W.; descend abruptly.
69.50	Bottom of hollow, 350 ft. below ridge, course N. E.; ascend.
80.00	Set a trachyte stone, 18 x 10 x 5 ins., 12

Subdivision of T. 14 S., R. 1 W. - Continued.

Chains ins. in the ground, for cor. of secs. 19, 20, 29, and 30, marked with 2 on S. and 5 notches on E. edges; which

A cedar, 8 ins. diam., bears N. 69° E. 108 lks. dist., marked T. 14 S., R. 1 W., S. 29, B.T.

A cedar, 12 ins. diam., bears S. 34° 15' E. 79 lks. dist., marked T. 14 S., R. 1 W. S. 29, B.T.

A cedar, 6 ins. diam., bears S. 3° 30' W. 64 lks. dist., marked T. 14 S., R. 1 W., S. 30, B.T.

A cedar, 14 ins. diam., bears N. 56° W. 16 lks. dist., marked T. 14 S., R. 1 W., S. 19, B.T.

Land, mountainous.

oil, clay and gravelly loam; 2nd rate

imber, cedar.

Good grass for grazing.

Mountainous or heavily timbered d, 80.00 chs.

S 89° 43' E., on a random line bet. secs. 20 and 29.

40.00 Set temp. ¼ sec. cor.

79.70 Intersect N. and S. line, 48 lks. S. of cor. of secs. 20, , and 29.

Thence we run

S 89° 57' W., on a true line, bet. secs. 20 and 29.

Over mountainous land, through undergrowth; ascend.

22.00 Top of ridge, 200 ft. above sec. cor., bears N.E. and S.W.;

30.00 ame ridge, bears N.W. and S.E.; descend

39.85 Set a blue limestone, 18 x 14 x 8 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; and raise a ound of stone, 2 ft. base, 1½ ft. high N. of cor. Pits impracticable.

45.00 Bottom of hollow, 20 ft. below ¼ sec. cor., course S. 48° E.; ascend.

Subdivision of T. 14 S., R. 1 W.—Continued.

Chains	
47.50	Wood road, bears N. 50° W. and S. 50° E.
52.50	Top of spur, 20 ft. above hollow, bears N. E. and S. W.; descend.
61.00	Bottom of hollow, 15 ft. below spur, course N. E.; ascend.
64.00	Enter heavy cedar timber, bears N. and S.
79.70	The cor. of secs. 19, 20, 29, and 30.
	Land, mountainous.
	Soil, clay loam; 2nd rate.
	Timber, cedar.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 79.70 chs.
	For reasons already explained We run
	West, on a true line bet. secs. 19 and 30.
	Over mountainous land, through heavy cedar timber; ascend.
32.00	Top of divide ridge, bet. Juab and Sage valleys, 500 ft. above sec. cor., bears N. 53° E. and S.; leave timber, bears with ridge; descend abruptly.
40.00	Set a limestone, 16 x 10 x 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.
60.00	Foot of mountain, 500 ft. below ridge, bears N. 20° E. and S. 20° W.; thence across Sage valley, through dense undergrowth.
82.00	Old road, bears N. 10° E. and S. 10° W.
84.50	Wash, 100 lks. wide, 10 ft. deep, course S. 20° W.
114.00	Leave valley, bears N. 20° E. and S. 20° W.; ascend.
122.00	Top of ridge, 100 ft. above valley, bears

N. 20° E. and S. 20° W.; descend gently.
159.00 Wash, 60 lks. wide, 4 ft. deep, course S. 15° W.
205.45 Intersect E. bdy. T. 14 S., R. 2 W., 29.20 chs. S. 0° 32' W. from cor. of secs. 24 and 25, heretofore described.
Set a trachyte stone, 15 X 7 X 6 ins., 10 ins. in the ground, for closing cor. of secs. 19 and 30, marked C.C. on E.; with 4 grooves on N., and 2 grooves on S. faces; dig pits, 24 X 18 X 12 ins., crosswise on each line, N. and S., 3 ft., and E. of stone, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, E. of cor.
Note: We destroy all marks on the cor. of secs. 24 and 25, which pertain to secs. 19 and 30.
Land, mountainous and level.
Soil, sandy and clay loam; 2nd rate.
Timber, cedar.
Undergrowth, sage-brush.
Good grass for grazing.
Mountainous or heavily timbered land, or land covered with dense undergrowth, 205.45 chs.

May 19, 1898.

May 20, 1898; At 7h 33m a. m., l. m. t., we set off 39° 35' N., on the lat. arc; 26° 5' N., on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 19, 20, 29, and 30.
Thence we run
N. 0° 1' W., bet. secs. 19 and 20.
Over mountainous land, through heavy cedar timber; ascend.
19.10 A cedar, 14 ins. diam., on line; we mark with 2 notches on N. and S. sides.
25.60 Top of divide ridge bet. Juab and Sage

Subdivision of T. 14 S., R. 1 W. - Continued.

Chains	
	valleys, 500 ft. above sec. cor., bears N. 40° E. and S. 53° W.; leave timber, bears with ridge; descend abruptly
40.00	Set a granite stone, 18 x 10 x 6 ins., 12 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.
45.00	Bottom of hollow, 250 ft. below ridge, course N. 80° W.; ascend.
60.10	Top of spur, 100 ft. above hollow, bears E. and W.; descend.
66.00	Bottom of hollow, 150 ft. below spur, course S. 80° W.; ascend.
78.50	Top of spur, 100 ft. above hollow, bears N 60° W. and S. 75° E.; enter heavy cedar timber, bears with ridge; descend.
80.00	Set a trachyte stone, 16 x 10 x 5 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. edges; from which
	A cedar, 11 ins. diam., bears N. 7° E. 25 lks. dist., marked T. 14 S., R. 1 W., S. 17, 7 B.T.
	A cedar, 10 ins. diam., bears S. 49° E., 26 lks. dist., marked T. 14 S., R. 1 W., S. 20, 13 B.T.
	A cedar, 7 ins. diam., bears S. 25° W. 51 lks. dist., marked T. 14 S., R. 1 W., S. 19, 13 B.T.
	A cedar, 9 ins. diam., bears N. 88° 15' W. 14 lks. dist., marked T. 14 S., R. 1 W., S. 18, 13 B.T.
	Land, mountainous.
	Soil, clay and gravelly loam; 2nd rate.
	Timber, cedar
	Good grass for grazing.
	Mountainous or heavily timbered land, 80.00 chs.

N. 89° 57' E., on a random line bet. secs. 17 and 20.

Subdivision of T. 14 S., R. 1 W. - Continued.

Chains	
40.00	Set temp. ¼ sec. cor.
79.90	Intersect N. and S. line, 40 lks. S. of cor. of secs. 17 and 20
	Thence we run
	S. 89° 40' W., on a true line bet. secs. 17 and 20
	Over mountainous land; ascend through scattering cedar timber.
24.00	Top of ridge, 130 ft. above cor., bears N. 57° W. and S. 57° E.; descend.
39.95	Set a quartzite stone, 18 x 18 x 10 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which
	Cedar, 10 ins. diam., bears N. 35° E., 55 lks. dist., marked ¼ S. 17, T. 3.;
	No other trees within limits; raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor. Pits impracticable.
45.00	Hollow, 75 ft. below ridge, course S. 50° E.; ascend.
69.00	Top of divide ridge bet. Juab and Sage valleys, 200 ft. above hollow, bears N. 20° E. and S.; descend.
74.00	Bottom of hollow, 30 ft. below ridge, course N. 37° W.; ascend.
79.90	The cor. of secs. 17, 18, 19, and 20.
	Land, mountainous.
	Soil, clay and gravelly loam; 2nd rate.
	Timber, cedar.
	Good grass for grazing.
	Mountainous land, 79.90 chs.

	For reasons already explained, We run
	West, on a true line bet. secs. 18 and 19.
	Over mountainous land, through dense sage-brush; ascend.
3.00	Top of ridge, 20 ft. above cor., bears N. 60° W. and S. 60° E.; descend.
16.00	Foot of mountain, 20 ft. below ridge,

Chains	
	bears N. 10° E. and S. 30° W.; enter Sage valley
34.50	Road to Lyman, bears N. 30° E. and S. 35° W.
38.00	Wash, 20 lks. wide, 3 ft. deep, course S. 20° W.
40.00	Set a flint stone, 16 x 10 x 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.
49.50	Swale, course S. 20° W.; ascend gently
50.20	Low ridge, 20 ft. above swale, bears N. 20° E. and S. 20° W.; descend gently.
68.50	Wash, 10 lks. wide, 3 ft. deep, course S. ascend
73.00	Enter heavy cedar timber, bears N. and S.
90.50	Leave timber, bears N. W. and S. E.
102.00	Top of ridge, 80 ft. above wash, bears N. 20° E. and S. 20° W.; descend gradually.
134.00	Wash, 60 lks. wide, 6 ft. deep, course S. 15° W.; ascend over rolling ground.
204.37	Intersect E. bdy. of Tp. 14 S., R. 2 W., 30.60 chs. S. 0° 21' W. from cor. of secs. 13 and 24, heretofore described.
	Set a quartzite stone, 10 x 11 x 5 ins., 10 ins. in the ground, for closing cor. of secs. 18 and 19, marked C.C. on E.; with 3 grooves on N. and S. faces; and raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. Pits impracticable.
	Note: We destroy all marks on cor. of secs. 13 and 24, which pertain to secs. 18 and 19.
	Land, mountainous, rolling and level
	Soil, sandy, and clay loam; 2nd rate
	Timber, cedar.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 204.37 chs.
	May 20, 1898; At the noon hour the sky is overcast, and solar observations impossible.

Subdivision of T. 14 S., R. 1 W., Continued.

Chains

N. 0.2' W., bet. secs. 17 and 18.
Over mountainous land, through
cattering cedar timber; descend.

8.20 Bottom of hollow, 140 ft. below cor.,
course N. 60° W.; ascend.

19.00 Top of ridge, 150 ft. above hollow, bears
80° W. and S. 50° E.; descend.

26.50 Road from Levan to Sage valley, bears
E. and W., in hollow 100 ft. below
course W.; ascend.

38.00 op of ridge, 200 ft. above hollow, bears
N. 40° E. and S. 40° W.; descend.

40.00 Set a quartzite stone, 15x10x6 ins., 10
in the ground, for ¼ sec. cor.,
marked ¼ on W. face; and raise a
mound of stone, 3 ft. base, 2 ft. high,
W. of cor. Pits impracticable.

54.00 Bottom of hollow, 200 ft. below ridge,
course S. 80° W.; ascend.

74.00 Top of ridge, 190 ft. above hollow, bears
N. 70° E. and S. 70° W.; descend.

80.00 et a quartzite stone, 20x14x10 ins., 15
in the ground, for cor. of secs.
7, 8, 17, and 18, marked with 4 notches
S. and 5 notches on E. edges; and
aise a mound of stone, 3 ft. base,
2 ft. high, W. of cor. Pits impracticable.
Land, mountainous.
Soil, sandy and clay loam; 2nd rate.
Timber, cedar.
Good grass for grazing.
Mountainous land, 80.00 chs.

N. 89° 40' E., on a random line bet. secs. 8 and 17.

40.00 et temp. ¼ sec. cor.

79.70 Intersect N. and S. line, 26 lks. N. of cor.
secs. 8, 9, 16, and 17.

Thence we run

Subdivision of T. 14 S., R. 1 W. - Continued.

Chains	
	S. 89° 51' W., on a true line bet. secs. 8 and 17. Over mountainous land, through scattering cedar timber and sage brush; ascend
11.50	Top of ridge, 100 ft. above sec. cor., bears N. 10° E. and S. 10° W.; descend.
15.00	Enter heavy cedar timber, bears N. and S.
34.50	Bottom of hollow, 150 ft. below ridge, course S.; ascend.
39.20	Top of ridge, 50 ft. above hollow, bears N. and S.; enter scattering timber, bears N. and S.; descend.
39.85	Set a flint stone, 18 x 16 x 10 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which A cedar, 6 ins. diam., bears N. 71° 30' E., 112 lks. dist., marked ¼ S. 8, B. T. A cedar, 12 ins. diam., bears S. 49° W., 35 lks. dist., marked ¼ S. 17, B. T.
42.50	Bottom of hollow, 60 ft. below ridge, course S. E.; ascend.
70.00	Top of divide ridge bet. Juab and Sage valleys, 200 ft. above hollow, bears N. 30° W. and S. 30° E.; descend.
79.70	The cor. of secs. 7, 8, 17, and 18.
	Land, mountainous.
	Soil, clay and gravelly loam; 2nd rate.
	Timber, cedar.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Mountainous or heavily timbered land, 79.70 chs.

	For reasons already explained we run West, on a true line bet. secs. 7 and 18. Over mountainous land, through dense sage brush; descend.
4.00	Bottom of hollow, 40 ft. below sec. cor., course S. W.; ascend.
20.00	Top of ridge, 30 ft. above hollow, bears

Subdivision of T. 14 S., R. 1 W. - Continued.

Chains S. 20° W. and N. 20° E.; descend.

34.00 Foot of mountain, 200 ft. below ridge, bears N. 20° E. and S. 20° W.; enter Sage

36.00 Road. " bears N. and S.

40.00 Set a trachyte stone, 14 x 12 x 6 ins., 9 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.

47.00 Old road, Egg Valley to Lava, bears N. W. and S. E.; ascend gently

75.00 Top of low ridge, 30 ft. above valley, bears N. and S.; descend.

101.50 Center of wash, 100 lks. wide, 8 ft. deep, course S. 30° W.; begin gradual ascent.

105.50 Wood road, bears N. 10° E. and S. 30° W.

120.00 Leave dense sage brush and enter heavy cedar timber, bears N. and S.

130.00 Leave heavy timber and enter dense sage brush, bears N. and S.

195.00 Top of spur, 100 ft. above wash, bears N. 50° E. and S. 50° W.; descend.

200.00 Bottom of hollow, 50 ft. below ridge, course N.; ascend.

204.20 Intersect W. bdy. of Tp., 31.00 chs. S. of cor. of secs. 12 and 13.

Set a trachyte stone, 18 x 10 x 8 ins., 12 ins. the ground, for closing cor. of secs. 7 and 18, marked c. c. on E.; with 2 grooves on N., and 4 grooves on S. faces; dig pits, 24 x 18 x 12 ins., crosswise on each line, N. and S., 3 ft., and E. of stone, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, E. of cor.

Land, mountainous and level.

Soil, sandy and clay loam; 2nd rate.

Timber, cedar.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered with dense undergrowth, 204.20 chs. May 20, 1898.

Subdivision of S. 14 S., R. 1 W. - Continued.

Chains	
	May 21, 1898: At 7h 5m a. m., l. m. t., we set off 39°37' N., on the lat. arc; 20°17' N., on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 7, 8, 17, and 18.
	Thence we run
	N. 0°2' W., bet. secs. 7 and 8.
	Over mountainous land, through scattering cedar timber; descend.
1.00	Bottom of hollow, course S. 70° W.; ascend.
13.50	Top of divide ridge, bet. Jual and Sage valleys, 200 ft. above hollow, bears N. 30° W. and S. 35° E.; descend.
22.00	Bottom of hollow, 130 ft. below ridge, course E.; ascend.
40.00	Set a trachyte stone, 20x20x10 ins., 15 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; from which
	A cedar, 8 ins. diam., bears N. 70° E. 20 lks. dist., marked ¼ S. 8, T. 3.
	A cedar, 8 ins. diam., bears N. 60° W., 21 lks. dist., marked ¼ S. 7, T. 3.
53.00	Top of divide ridge bet. Jual and Sage valleys, 300 ft. above hollow, bears N. 5° E. and S. 15° W.; thence along W. side of ridge, gradually descending
80.00	Set a blue limestone, 20x8x6 ins., 15 ins. in the ground, for cor. of secs. 5, 6, 7, and 8, marked with 5 notches on S. and E. edges; and raise a mound of stone, 3 ft. base, 2 ft. high W. of cor. Pits impracticable.
	Land, mountainous.
	Soil, sandy and clay loam, and rocky; 2nd and 4th rate.
	Timber, scattering cedar.
	Good grass for grazing.
	Mountainous land, 80.00 chs.

Subdivision of T. 14 S., R. 1 W. - Continued.

Chains

N. 89° 51' E., on a random line bet. secs. 5 and 8.

40.00 Set temp. ¼ sec. cor.

80.00 Intersect N. and S. line, 47 lks. N. of cor. of secs. 4, 5, 8, and 9.

hence we run

N. 89° 49' W., on a true line bet. secs. 5 and 8.

Over mountainous land, through cattering cedar timber; ascend.

16.00 Top of spur, 100 ft. above sec. cor., bears N. 25° E. - and S. 5° W.; descend.

40.00 Set a quartzite stone, 18 x 10 x 6 ins., 12 ins. in the ground, for ¼ sec. cor., arked ¼ on N. face; from which

A cedar, 8 ins. diam., bears N. 75° W., 65 lks. dist., marked ¼ S. 5, T. 3.

A cedar, 7 ins. diam., bears S. 70° W., 65 lks. dist., marked ¼ S. 8, T. 3.;

and raise a mound of stone, 2 ft. , 1½ ft. high, N. of cor.

46.70 Wood road, bears N. 10° W. and S. 10° E., in ottom of broad hollow, 250 ft. below ridge, course S. 20° E.; ascend.

77.78 Top of divide ridge, bet. Jual and Sage , 250 ft. above hollow, bears N. 25° E. S. 2° W.; descend.

80.00 The cor. of secs. 5, 6, 7, and 8.

and, mountainous.

Soil, clay loam and rocky; 2nd and 3rd rate.

Timber, cedar.

Good grass for grazing.

Mountainous land, 8000 chs.

For reasons already explained we run West, on a true line bet. secs. 6 and 7.

Over mountainous land; descend.

11.50 Bottom of hollow, 150 ft. below sec. cor.,

Sub-division of T. 14 S., R. 1 W. - Continued.

Chains	
	course S. 30° W.; ascend.
27.00	Top of ridge, 140 ft. above hollow; bears N. and S.; descend.
40.00	Set a quartzite stone, 16 x 10 x 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.
44.00	Wood road, bears N. 20° E. and S. 20° W., in hollow, 200 ft. below ridge, course S. 20° W.; ascend.
69.50	Top of spur, 150 ft. above hollow; bears N. 25° E. and S. 25° W.; descend.
80.00	Foot of mountain, 300 ft. below ridge, bears N. and S.; enter dense under-growth, bears N. and S.; thence across Sage valley.
83.50	Wood road, bears N. 25° E. and S. 25° W.
118.00	Road from Levan to Dog valley, bears N. W. and S. E.
183.00	Wash, 10 lks. wide, course N. 10° E.
204.10	Intersect W. bdy. of Tp., 31.10 chs. S. of cor. of secs. 1 and 12, heretofore described.
	Set a quartzite stone, 16 x 12 x 6 ins., 11 ins. in the ground, for closing cor. of secs. 6 and 7, marked C.C. on E.; with 1 grooves on N. and 5 grooves on S. faces; dig pits, 18 x 18 x 12 ins., crosswise on each line, N. and S., 3 ft., and E. of stone, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, E. of cor.
	Land, mountainous and level; Soil, sandy and clay loam; 2nd rate. No timber. Undergrowth, sage-brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 204.10 chs.

Subdivision of T. 14 S., R. 1 W. - Continued.

Chains	
	For reasons already explained we run N. 0°3' W., on a true line bet. secs. 5 and 6. Over mountainous land, through scattering cedar timber; ascend.
4.00	Top of spur, 10 ft. above sec. cor., bears N. 80° W. and S. 80° E.; descend.
4.00	Set a quartzite stone, 16 x 10 x 9 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; from which A cedar, 6 ins. diam., bears N. 40° E. 250 lks. dist., marked ¼ S. 5, B. T.; no other trees within limits; 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. Leave timber and enter dense undergrowth, bears E. and W.
81.00	Wood road, bears N. E. and S. W.
83.55	Intersect N. bdy. of Tp., 4.35 chs. E. of cor. of secs. 5, 6, 31, and 32. heretofore described.
	Set a quartzite stone, 15 x 10 x 6 ins., 10 ins. in the ground, for closing cor. of secs. 5 and 6, marked C. C. on S.; with 5 grooves on E., and 1 groove on W. faces; from which A cedar, 12 ins. diam., bears S. 60° W., 200 lks. dist., marked C. C. T. 14 S., R. 1 W. S. 6, 32 No other trees within limits; raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor. Pits impracticable. Note: We destroy all marks on the cor. of secs. 5, 6, 31, and 32, which pertain to secs. 5 and 6. Land, mountainous. Soil, sandy and clay loam; 2nd rate Timber, cedar. Undergrowth, sage brush. Good grass for grazing.

Subdivision of T. 14 S., R. 1 W. - Concluded.

Chains	Mountainous land, or land covered with dense undergrowth, 83.55 chs. May 21, 1898.

General Description.

This fractional township contains a variety of land, ranging from nearly level valley and rolling hills, to rough mountains. The soil of the valley, low hills and hollows, is generally rich sandy or clay loam, and capable of producing abundant crops without irrigation, and may be classed as 1st and 2nd rate. The soil of the ridges and mountains is clay loam mixed with gravel and rocks, and can nearly all be classed as 2nd and 3rd rate.

The entire township is covered with an abundant growth of rich and nutritious grasses, and is grazed by numerous herds of sheep every year. Cedar timber covers a large part of the township and the remainder is covered with a dense undergrowth of sage-brush. There is a small spring of good water in the southern part of sec. 4, but the flow is very small, and not sufficient to be used for irrigation purposes.

There are no indications of mineral in the township. There are no settlers now in this fractional township.

Scott O. Stewart
Andrew J. Stewart Jr.
U. S. Deputy Surveyors.

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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 .....

....., 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 .....

.....

showing the respective capacities in which they acted:

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

..... United States Deputy Surveyor, in surveying all those parts or portions of the .....

.....

.....

..... of the .....

..... meridian, ... of ....., 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 .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..., United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from ..... United States Surveyor General for ....., bearing date of the ..... day of ....., 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 Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

.....

.....

.....

..... of the ..... meridian, in the ..... of ....., 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 ..... 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.

.....

United States Deputy Surveyor.

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

SEAL

.....

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah June 23 1900, ~~189~~

The foregoing field notes of the survey of the subdivisions of Township 14 South Range 1 West of the Salt Lake Base & Meridian Utah

.....

.....

.....

.....

.....

executed by Scott P. Stewart & Andrew J. Stewart under ~~his~~ their contract No. 217, dated November 1st, 1897, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Jacob B. 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.

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4—679.

BOOK A-257

X.3.B.

FIELD NOTES

OF THE SURVEY OF THE

Third Standard Parallel South

Through

Range 1 West.

Of the Salt Lake Base and Meridian,

Utah.

AS SURVEYED BY

Scott P. Stewart and Andrew J. Stewart Jr., United States Deputy Surveyors

Under ~~his~~ their Contract No. 217, dated November 1, 1897

Survey commenced May 22", 1898

Survey completed May 24", 1898

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Stand H 306.95 ?
Closing 4.65
Resurvey H 435.26 } Contract
" L 146.33 } "

NAMES AND DUTIES OF ASSISTANTS.

John R. Stewart, Chainman.

Daniel H. Y. McAllister, Chainman.

Wm W. Richardson Jr. Chainman.

Alma Betts, Chainman.

Antone P. Stewart, Rodman.

Peter S. Sorensen Rodman.

Benjamin T. Stewart Axman.

Quimby Stewart, Flagman.

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BOOK A-257

INDEX DIAGRAM.

Township 15 South, *Range* 1 West.

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THIRD STANDARD PARALLEL SOUTH.

Meanders Page

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PRELIMINARY OATHS OF ASSISTANTS.

WE, John R. Stewart, Daniel H. Y. McAllister, William W. Richardson Jr. & Alma B.

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 Third Standard Parallel South through Ranges 1 W.; 1½ W.; 2 E.; and 1 E. of the Salt Lake Base and Meridian, Utah.

John R. Stewart, Chainman.

Daniel H. Y. McAllister, Chainman.

William W. Richardson Jr.

Alma Betts

Subscribed and sworn to before me this 22nd day of April, 1898

Shadrach M. Richardson

Justice of the Peace

Benjamin Utah Co.

WE, Antone P. Stewart, and Peter S. Sorensen,

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 Third Standard Parallel South through Ranges 1 W.; 1½ W.; 2 E.; and 1 E., of the Salt Lake Base and Meridian, Utah.

Antone P. Stewart, Moundman.

Peter S. Sorensen, Moundman.

Subscribed and sworn to before me this 22nd day of April, 1898

Shadrach M. Richardson

Justice of the Peace

Benjamin Utah Co.

~~WE~~, I Benjamin F. Stewart, and

do solemnly swear that ~~we~~ I will well and truly perform the duties of axmen 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 o the Third Standard Parallel South through Ranges 1 W.; 1½ W.; 2 E.; and 1 E., of the Salt Lake Base and Meridian, Utah.

Benjamin F. Stewart, Axman

, Axman

Subscribed and sworn to before me this 22nd day of April, 1898

Shadrach M. Richardson

Justice of the Peace

Benjamin Utah Co.

I, Quinby Stewart, 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 Third Standard Parallel South, through Ranges 1 W.; 1½ W.; 2 E.; 1 E., of the Salt Lake Base and Meridian, Utah.

Quinby Stewart, Flagman

Subscribed and sworn to before me this 22nd day of April, 1898

Shadrach M. Richardson

Justice of the Peace

Benjamin Utah

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Chain Survey commenced May 22, 1898, and executed with a W. and L. E. Gurley, light mountain transit, No. 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 latitude and declination arcs; and a Buff and Berger transit, no. 25-11, the horizontal limb having two double verniers reading to single minutes of arc.

The instruments were examined, tested on the true meridian at Salt Lake City, found correct, and were approved by the surveyor general for Utah, the former December 7, 1897, and the latter April 5, 1898.

We examine the adjustments of the transits, and correct the level and collimation errors; then, to test the solar apparatus of the Gurley instrument, by comparing its indications, resulting from solar observations made during p.m. and a.m. hours, with a true meridian determined by observations on Polaris, we proceed as follows:

At the Standard cor. of secs. 35 and 36, latitude 39° 28′ N., longitude 111° 35′ W; we set off 39° 28′ N., on the lat. arc, 20° 53′ N., on the decl. arc; and, at 3h 31m p.m., L. M. T., determine a true meridian with the solar, of the Gurley instrument and mark a point there of on a stone, firmly set in the ground,

Chains	5 chs. N. of the cor. May 22, 1898.

May 23, 1898: At 3h 21m a.m., l.m.t., we observe Polaris at eastern elongation, with the Buff and Berger instrument, in accordance with the Manual of Instructions, and mark a point in the line thus determined on a plug driven in the ground, 5 chs. N. of our station. At 6h 20m a.m., l.m.t., we lay off the azimuth of Polaris 1° 36' to the west, on the Buff and Berger transit, and mark the True Meridian thus determined, by cutting a small groove in the stone set May 22, on which the true meridian falls 0.2 ins. east of the mark determined with the solar of the Gurley instrument. At 6h 30m a.m., l.m.t., we lay off the azimuth of Polaris 1° 36' to the west on the Gurley instrument, and mark the True Meridian thus determined by cutting a small groove in the stone set May 22, on which the true meridian falls 0.2 ins. east of the mark determined by the solar.

At 7h 0m a.m., l.m.t., we set off 39° 28' N., on the lat. arc; 20° 41' N., on the decl. arc; and mark a point in the true meridian determined with the solar, of the Gurley instrument, by a cross on the stone already set 5 chs. N. of our station; this mark falls 0.28 ins. east of the true meridian established by Polaris observation.

The solar apparatus, of the

chains

Gurley instrument, by p.m. and a.m. observations, defines positions for true meridians, respectively about 0'.11" west and 0'.13" east of the meridian established by Polaris observation; therefore we conclude that the adjustments of the instruments are satisfactory.

The magnetic bearing of the true meridian, at 4h 38m a.m. is N. 16° 34' W.; the angle thus determined, reduced by the table, page 100, gives the mean mag. decl. 16° 30' E.

We begin at the standard cor. of secs. 35 and 36, which is a greatly decayed post, marked and witnessed as decribed by the surveyor general. We reestablish the cor. at the same point as follows:

Set a sandstone, 18 x 10 x 8 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 3 grooves on W. faces; from which

a pinion pine, 4 ins. diam., bears N. 42° E., 60 lks. dist., marked T. 13 S., R. 1 W., S. 36, B.T.

a pinion pine, 6 ins. diam., bears N. 43° W., 26 lks. dist., marked T. 13 S., R. 1 W., S. 35, B.T.;

and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

Thence we run East, on S. bdy. sec. 36.

Over mountainous land, through heavy cedar and pinion pine timber; ascend.

15.00 Leave heavy timber, bears N.E.

chains	
	and S. W.
17.00	Top of ridge, 200 ft. above sec. cor., bears N. 40° W and S. 40° E.; descend.
23.50	Bottom of hollow; 150 ft. below ridge, course N. 25° E.; ascend.
28.50	Top of ridge, 80 ft. above hollow; bears N. 20° W. and S. 20° E.; descend.
31.50	Bottom of hollow; 70 ft. below ridge, course N. 15° W.; ascend
32.00	Top of ridge, 80 ft. above hollow, - N. 30° W. and S. 30° E.; descend.
	Difference between measurements of 40.00 chs., by two sets of is 16 lks.; position of middle point. By 1st. set, 39.92 chs. By 2nd. set, 40.08 chs.; the mean of which is.
40.00	Set a sandstone, 14 x 10 x 9 ins., 9 ins. in the ground, for standard 1/4 sec. cor., marked 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.
40.90	Road in Little Salt Creek cañon, bears N. 70° W. and S. 70° E
41.50	Little Salt Creek, 15 lks. wide, 8 ins. deep, rapid current, rocky bottom, good water; course N. 70° W.; in bottom of Little Salt Creek Cañon, 200 ft. below ridge.; ascend.
55.50	Top of spur, 150 ft. above cañon, bears N. 20° W. and S. 20° E; descend.
58.00	Bottom of hollow, 60 ft. below rid course S. 15° E.; ascend.
62.00	Top of spur 80 ft. above hollow, bears N. and S.; descend.
72.74	Little Salt Creek. 15 lks. wide, 8 ins deep, rocky bottom, rapid current, course S. W.; in bottom of Little Salt Creek Cañon 50 ft below ridge ascend gently.

Third Standard Parallel S. through R. 1 W. continued

Chains	
73.25	Wagon road bears with cañon. Difference between measurements of 83.64 chs., by two sets of chainmen is 22 lks., position of middle point. By 1st. set, 83.50 chs. By 2nd. set, 83.75 chs., the mean of which is.
83.64	Intersect Salt Lake Meridian, 4.65 chs. S. of the cor. of Tps. 15 and 16 S., Rs. 1 E. and 1 W. which is a limestone 12 x 16 x 12 ins., above ground, firmly set and marked and witnessed as described by the surveyor general. Note: We destroy all marks on the above described cor. which pertain to Tps. 15 and 16. S., R. 1 W. Set a quartzite stone, 18 x 10 x 8 ins., 12 ins. in the ground, for standard closing cor. Tps. 15 and 16 S., R. 1 W., marked C. C. 1 W. on W.; S. C., 15 S. on N.; 16 S. on S.; with 6 grooves on N., S., and W. faces; and raise a mound of stone, 2 ft. base, 1½ ft. high. W. of cor. Pits impracticable Land, mountainous Soil, gravelly loam and rocky; 2nd. and 3rd. rate. Timber, cedar. Good grass for grazing. Mountainous or heavily timbered land, 83.64 chs. Note: On account of the percipitous nature of the ground we are unable to see any of the corners along this line; therefore we cannot compare the line with a true meridian established by Polaris observation. May 23. 1898. at 4h 34m p. m., l. m. t., at the standard cor. of secs. 32 and

ch 33, which is a partly decayed post in mound of earth marked and witnessed as described by the surveyor general.

We destroy all traces of old cor., and reestablish it at the same point as follows:

Set a quartzite stone, 14 x 10 x 4 ins. 9 ins. in the ground, for reestablished standard cor. of secs. 32 and 33, marked S. C. on N.; with 4 grooves on S. and 2 grooves on W. faces; and raise a mound of stone 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.

We set off 39° 28' N. on the lat. arc; 20° 45' N., on the decl. arc; and mark a point in the true meridian determined, by a cross on a stone firmly set in the ground, 5 chs. N. of our station.

May 23. 1898

May 24, 1898. At 3h. 17m a. m., l. m. t., we observe Polaris at eastern elong. with the Buff and Berger instrum., in accordance with the Manual of Instructions, and mark the direction thus determined by a tack driven in a wooden plug firmly set in the ground, 5 chs. N of our station.

At 6h. 0m a. m., l. m. t., we lay off the azimuth of Polaris 1° 36' to the west on the Buff and Berger and mark the True Meridian determined, by cutting a small groove in the stone set May 24, on which the true meridian falls 0.2 ins. West of the mark determined

chains | by the solar of the Burley instrument.
At 6h. 30m. a. m., l. m. t., we lay off the azimuth of Polaris 1° 36' to the west on the Burley instrument, and mark the True meridian thus determined by cutting a small groove in the stone set may 24, on which the true meridian falls 0.2 ins. west of the mark, determined by the solar.
At 7h. 0m. a. m., l. m. t., we set off 39° 28' N. on the lat. arc; 20° 52' N. on the decl. arc; and mark the true meridian determined by the solar, of the Burley instrument, by a cross on the stone already set 5 chs. N. of our station; this mark falls 0.25 in. west of the mark determined by Polaris observation. The solar apparatus of the Burley instrument, by p. m. and a. m. observations, defines positions for true meridian, respectively about 0' 10" east and 0' 12" west of the meridian established by Polaris observation. therefore we conclude that the adjustments of the instruments are satisfactory. The magnetic bearing of the true meridian at 7h. 30m. a. m. l. m. t., is N. 16° 34' W.; the angle thus determined, reduced by the table page 100 gives the mean mag. decl 16° 30' east.
X From the standard cor. of secs. 32 and 33, already described, we run West on S. bdy. sec. 32.
Over mountainous land, through scattering cedar timber and under growth: ascend.
At this cor. we erect a signal for a test sight from some point to the west.

35.00 Find no trace of foot of mountain cor.

39.25 Top of ridge, 60 ft. above cor.; bears N. 10° W. and S. 10° E.; descend.

Difference between measurements of 40.00 chs., by two sets of chainmen is 12 lks.; position of middle point.

By 1st. set 39.94 chs.

By 2nd. set 40.06 chs.; the mean of which is.

40.00 Set a trachyte stone, 16 x 8 x 6 ins., 11 ins. in the ground, for standard ¼ sec. cor., marked S. C. ¼ on N. face; from which.

A cedar, 12 ins. diam., bears N. 52° E. 32 lks. dist. marked ¼ S. 32, B. T.

62.10 Wood road leading to jiab; bears N. 10° W. and S. 10° E.; in hollow 75 ft. ridge, course N. 10° W; ascend.

73.95 Wood road leading to jiab; bears N. 5° E. and S. W.

Difference between measurements of 80.00 chs; by two sets of chainmen is 20 lks.; position of middle point

By 1st. set 79.90 chs.

By 2nd. set 80.10 chs.; the mean of which is.

80.00 Set a quartzite stone, 18 x 14 x 4 ins., 12 in. in the ground, for standard cor. of cs. 31 and 32, marked S. C. on N.; with 3 grooves on E. and 1 groove on W. faces; dig pits, 24 x 18 x 12 ins., 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.

Land, mountainous

Soil, sandy, loam; 1st. rate.

Timber, scattering cedar.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land, 80.00 chs.

chains	
	West, on S. bdy. sec. 31.
	Over rolling land, through dense undergrowth and scattering cedar timber; ascend.
3.10	Leave dense undergrowth and enter heavy cedar timber, bears N. and S.
23.00	Top of low flat ridge, 40 ft. above cor. bears N. and S., leave heavy timber, and enter dense undergrowth and scattering timber, bears N. and S., descend gently.
	Difference between measurements 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	Set a hard sandstone, 16 x 7 x 5 ins., 11 ins. in the ground, for standard 1/4 sec. cor., marked S. C. 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.
53.00	Find no trace of foot of mountain cor.
78.00	Bottom of hollow, 10 ft. below ridge, course S. W.; ascend gently.
	Difference between measurement of 82.45 chs., by two sets of chainmen, is 16 lks.; position of middle point.
	By 1st. set 82.37 chs.
	By 2nd. set 82.53 chs. the mean of which is.
82.45	Intersect W. bdy. of T. 15 S., R. 1 W. 4.25 chs. N. of cor. of Tps. 15 and 16 S. Rs. 1 and 1 1/2 W., which is a partly decayed post in mound marked and witnessed as described by the surveyor general.
	According to "Special Instructions" we destroy all traces of old. cor.; and at our intersection;
	Set a quartzite stone, 18 x 8 x 8 ins.

Third Standard Parallel S. through R. 1 W.

12 ins. in the ground for standard cor. of Tps. 15 S., Rs. 1 and 1 1/2 W., S. C., on N.; with 6 grooves on N., E., W. faces; from which.

A cedar, 6 ins. diam., bears N. 62° E, 2 38 lks. dist., marked T. 15 S. R 1 W. S. 31. B. T.

A cedar 6 ins. diam., bears N. 8° W. 42 lks. dist., marked T. 15 S. R. 1 1/2 W. S. 36. B. T.

Land, rolling.
Soil, clay loam; 2nd. rate.
Timber; cedar.
Undergrowth, sage brush.
Good grass for grazing.
Heavily timbered land or land covered with dense undergrowth, 82.45 chs.
Note: From this cor. we are unable to see the signal erected at the standard cor. of secs. 32 and 33, on account of the rolling nature of the ground and the heavy timber therefore we cannot compare the line with a true meridian established by Polaris observation.
May 24, 1898; At the noon hour the sky is overcast and solar are impossible

Note: In order to properly locate the old corners on this boundary and reestablish them if necessary. We run.
West, on a retracement line on S. bdy. secs. 35; at 80.00 chs. We find no trace of standard cor. of secs. 34 and 35; therefore we continue our line west, and find that

Resurvey of the Third Standard Parallel through R. 1 W. con

chains	all the corners are obliterated, at 241.59 chs; we fall 6.32 chs. N. of the standard cor. of secs. 32 and 33. The falling answers to a correction of 1° 30', or 210 2/3 lks. S. per mile counting from the standard cor of secs. 35 and 36 and the length of each mile will be 80.53 chs. Therefore we run. N. 88° 30' E., on a true resurvey line on S. bdy. sec. 33. Over rolling land, through dense undergrowth.
2.25	Wood road leading to Juab, bears N. 75° W. and S. 75° E.
17.20	Road leading from Juab to Fayette bears N. and S.; leave dense undergrowth, bears N. and S. Difference between measurements of 40.26 chs., by two sets of chainmen is 8 lks.; position of middle point By 1st. set 40.22 chs. By 2nd set 40.30 chs.; the mean of which is.
40.26.	Set a sandstone, 16 x 6 x 6 ins., 11 ins. in the ground, for standard 1/4 sec. cor., marked S. C. 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 corner.
64.40	Wash, 20 lks. wide, 6 ft. deep, course N. 35° W. Difference between measurements of 80.53 chs., by two sets of chainmen is 14 lks.; position of middle point. By 1st. set 80.46 chs. By 2nd set 80.60 chs. the mean of which is
C 80.53 / 17.20 / 63.33	Set a sandstone, 16 x 12 x 4 ins., 11 ins. in the ground for standard cor.

of sec. 33 and 34, marked S. C. on N.; with 3 grooves on E., and W. faces, and raise a mound of stone, 2 ft. base 1½ ft. high, N. of cor. Pits impracti
Land, rolling.
Soil, sandy and clay loam; 2nd.s
No timber.
Undergrowth, sage brush.
Good grass for grazing.
Land covered with dense under growth, 17.20 chs.

N. 88° 30' E., on a true resurvey line on S. bdy. sec. 34.
Over level land, through scattering sage brush.
Difference between measurements of 40.26 chs. by 2 sets of chainmen is 4 lks.; position of middle point.
By 1st. set 40.24 chs.
By 2nd. set 40.28 chs. the mean of which is.

40.26 Set a sandstone, 14 x 8 x 8 ins., 9 ins. in the ground, for standard ¼ sec. cor., marked S. C. 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.

63.00 Wash 20 lks. wide, 6 ft. deep, course N. 20° W.; leave sage brush and enter dense grease wood, bears N. and S.

67.50 Wash, 10 lks. wide, course N. 20° W.
Difference between measurements of 80.53 lks.; by two sets of chainmen is 10 lks.; position of middle point.
By 1st. set 80.48 chs.

Resurvey of the Third Standard Parallel S. through R.1 W. cont.

chains	
	By 2nd. set 80.58 chs.; the mean of which is
80.53	Set a hard sandstone, 18 x 12 x 8 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. faces; and raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor. Pits impracticable.
17.53 / 63.00	Land, level.
	Soil, clay loam; 2nd. rate.
	No timber.
	Undergrowth, sage brush and grease wood.
	Land covered with dense undergrowth, 17.53 chs.
	N. 88° 30' E., on a true resurvey line on S. bdy. sec. 35.
	Over nearly level land, gently ascending to the east; through dense undergrowth.
4.30	County road from Levan to Fayette, bears N. 15° E. and S. W.
	Difference between measurement of 40.26 chs., by two sets of chainmen is 6 lks. position of middle point.
	By 1st. set 40.23 chs.
	By 2nd. set 40.29 chs., the mean of which is
40.26	Set a conglomerate stone, 24 x 13 x 11 ins., 18 ins. in the ground for standard ¼ sec. cor., marked S. C. ¼ on N. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable
52.25	Wood road, bears N. 40° W. and S. 40° E.
75.00	Leave dense undergrowth and enter heavy cedar and pinion

chains pine timber bears N. and S.
Difference between measurements of 80.53 chs. by two sets of chainmen is 10 lks.; position of middle point
By 1st. set 80.48 chs.
By 2nd. set 80.58 chs.; the mean of which is
80.53 The Standard cor. of secs. 35 and 36. heretofore described.
Land, nearly level.
Soil, sandy and clay loam; 2nd. rate.
Timber, cedar.
Undergrowth, sagebrush and grease wood.
Good grass for grazing.
Heavily timbered land, or land covered with dense undergrowth.
80.53 chs.

7 24, 1898.

This Parallel crosses low rolling hills and hollows and some level valley land fairly well timbered and covered with a dense growth of sage brush and shadscales.

Scott C. Stewart,
Andrew J. Stewart Jr.
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 .....

....., 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 .....

.....

showing the respective capacities in which they acted:

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

....., United States Deputy Surveyor, in surveying all those parts or portions of the .....

.....

.....

..... of the .....

..... meridian, ... of ....., 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 .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

.....

.....

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..., United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from ....., United States Surveyor General for ....., bearing date of the ..... day of ....., 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 Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

.....

.....

.....

..... of the .....

..... meridian, in the ..... of ....., 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 Surveyo General for ..... and in the specific manner described in the field notes, and tha the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffe the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

.....

United States Deputy Surveyo

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

.....

SEAL

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 23, 1900, 189-

The foregoing field notes of the survey of the Third Standard Parallel South Range 1 West of the Salt Lake Base & Meridian Utah

executed by Scott P. Stewart & Andrew J. Stewart Jr. under his contract No. 917, dated November 1st, 1897, having b critically examined, and the necessary corrections and explanations made, the said field notes, and t surveys they describe, are hereby approved.

Jacob B.

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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4—679.

BOOK A-257

FIELD NOTES

OF THE SURVEY OF THE

West Boundary

of

Township 15 South, Range 1 West.

of the Salt Lake Base and Meridian,

In the State of Utah.

AS SURVEYED BY

Scott J. Stewart 3d and Andrew J. Stewart, *United States Deputy Surveyors,*

Under ~~his~~ their *Contract No.* 217 *dated* November 1st, *1897.*

Survey commenced May 24th, *1898.*

Survey completed May 26th, *1898.*

NAMES AND DUTIES OF ASSISTANTS.

John R. Stewart, Chainman.

Daniel H. Y. McAllister, Chainman.

Wm W. Richardson Jr, Chainman.

Alma Betts, Chainman.

Antone P. Stewart, Mounduman.

Peter S. Sorensen, Mounduman.

Benjamin F. Stewart, Axman.

Quinby Stewart, Flagman.

For preliminary affidavits see Book "B"

BOOK A-257

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Township.....*, Range*.....

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3. 7.	19	20	21	22	23	24	11.
8.	30	29	28	27	26	25	11.
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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 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 _____

_____, *Chainman.*

_____, *Chainman.*

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 moundmen in the establishmen 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 _____, 189 }

SEAL

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

_____,

_____,

Subscribed and sworn to before me this _____ day of _____, 189 }

SEAL

I, _____, do solemnly swear that I will wel perform the duties of flagman according to instructions given me, to the best of my skill and a survey of _____

Subscribed and sworn to before me this _____ day of _____, 189 }

SEAL

West boundary of T. 15 S. R. 1 W., S. L. B. and M.

chains Survey commenced May 24, 1898:
and executed with a W. and L. E.
Gurley light mountain transit,
No-. 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 latitude and
declination arcs; and a Buff and
Berger transit, No. 2511, the horizontal
limb being provided with two
double verniers reading to single
minutes of arc.

The instruments were examined,
tested on the true meridian at
Salt Lake City, found correct, and
were approved, by the surveyor
general for Utah, the former on
December 4, 1897, and the latter on
April 5, 1898.

We examine the adjustments
of the instruments, and correct
the level and collimation errors;
then, to test the solar apparatus,
of the Gurley instrument, 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, we
proceed as follows:

At the 1/4 sec. cor. bet. secs. 19 and
24 on W. bdy. T. 15 S., R. 1 W., latitude
39° 30′ N., longitude 112° 0′ W.; we set
off 39° 30′ N., on the lat. arc; 20° 57′ N.,
on the decl. arc; and at 5 h. 5 m p. m.,
l. m. t., determine a true meridian
with the solar of the Gurley
instrument and mark a point
thereof on a stone, firmly set in
the ground, 5 chs. N. of our station.

chains	May 24, 1898.
	May 25, 1898: At 3h. 13m. a. m., l. m. t., we observe Polaris at eastern elongation with the Buff and Berger instrument, in accordance with the manual of Instructions, and mark a point in the line thus determined on a plug driven in the ground 5 chs. N. of our station.
	At 6h. 25m. a. m., l. m. t., we lay off the azimuth of Polaris 1°36' to the west, on the Buff and Berger instrument, and mark the True Meridian thus determined, by cutting a small groove in the stone set May 24, on which the true meridian falls 0.2 ins. east of the mark determined with the solar of the Gurley instrument.
	At 6h. 35m. a. m., l. m. t., we lay off the azimuth of Polaris 1°36' to the west, on the Gurley instrument, and mark the True Meridian thus determined by cutting a small groove in the stone Set May 24, on which the true meridian falls 0.2 ins. east of the mark determined by the solar.
	At 7h. 0m. a. m., l. m. t., we set off 39°30' N. on the lat. arc; 21°03' N., on the decl. arc; and mark a point in the true meridian determined with the solar, of the Gurley instrument, by a cross on the stone already set 5.00 chs. N. of our station; this mark falls 0.2 ins. east of the true meridian estabsished by Polaris observation.
	The solar apparatus of the Gurley instrument, by p. m., and a. m. observations, defines positions

West bdy. of T. 15 S., R. 1 W. continued.

Chains	
	for true meridians, respectively about 0'10" west and 0'10" east of the meridian established by Polaris observation; therefore we conclude that the adjustments of the instruments are satisfactory.
	The magnetic bearing of the true meridian at 7h. 30m. a.m. is N. 16°34' W. the angle thus determined reduced by the table, page 100 of the manual, gives the mean mag. decl. 16°30'E.
	From the 1/4 sec. cor. bet. secs. 19 and 24, which is a greatly decayed post in mound, marked and witnessed as described by the surveyor general and which we reestablish at the same point as follows:
	Set a trachyte stone, 15 x 12 x 4 ins., 10 ins. in the ground, for reestablished 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.
	Thence we run.
	North, between the W. bdy. of secs. 19 and 24.
	Over mountainous land, through scattering cedar timber; ascend.
3.50	Wire fence, bears N. 80°E. and S. 80°W.
40.00	Set a granite stone; 15 x 12 x 8 ins., 10 ins. in the ground, for cor. of secs. 13, 18, 19 and 24, marked with 3 notches on N. and S. edges; from which
	A cedar, 8 ins. diam., bears S. 59°E., 75 lks. dist., marked T. 15 S. R. 1 W., S. 19. B.T.
	A cedar, 9 ins. diam., bears S. 42° W. 49 lks. dist., marked T. 15 S., R. 1 1/2 W. S. 24, B.T.
	A cedar, 10 ins. diam., bears N. 42° W. 21 lks. dist., marked T. 15 S., R. 1 1/2.

Chains	
	W. S. 13 B. T.
	No other trees within limits; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, mountainous.
	Soil, gravelly; 3rd. rate.
	Timber, scattering cedar.
	Good grass for grazing.
	Mountainous land, 40.00 chs.
	North, bet. secs. 13 and 18.
	Over mountainous land, ascend mountain.
40.00	Set a quartzite stone, 18 X 14 X 4 ins., 12 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.
53.00	Top of spur of ridge, about 50 ft. above 1/4 sec. cor. bears N. 50° W. and S. 50° E.
80.00	Set a quartzite stone, 24 X 10 X 6 ins., 18 ins. in the ground, for cor. of secs. 7, 12, 13 and 18, marked with 2 notches on N. and 4 notches on S. edges; 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.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous land 80.00 chs.
	May 23, 1898, At this cor. we set off 21° 4' N., on the decl. arc., and at 11 h. 58 m. a. m., l. m. t., observe the sun on the meridian the resulting lat. is 39° 32' N.

West boundary of T. 15 S., R. 1 W. continued

Chains	
	North, bet. secs. 7 and 12.
	Over mountainous land, through dense undergrowth, and scattering cedar timber; ascend.
36.00	Top of ridge 200 ft. above sec. cor. bears N. 20° E. and S. 20° W.; descend
40.00	Set a limestone, 18 x 14 x 8 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; from which.
	A cedar, 10 ins. diam., bears N. 33 1/2° E. 71 lks. dist. marked 1/4 S. 7. 13. T.
	A cedar, 5 ins. diam., bears N. 62 1/2° W. 33 lks. dist., marked 1/4 S. 12. B. T.
70.00	Bottom of hollow 200 ft. below ridge, course S. 20° W.; ascend.
80.00	Set a limestone, 18 x 12 x 5 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; from which.
	A cedar, 10 ins. diam., bears N. 19° 30' E. 134 lks. dist. marked T. 15 S. R. 1 W., S. 6. B. T.
	A cedar, 14 ins. diam., bears N. 65° W. 116 lks. dist., marked T. 15 S., R. 1 1/2 W. S. 1, B. T.
	No other trees with in limits; raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.
	Land, mountainous
	Soil, clay loam and rocky; 2nd and 4th rate.
	Timber scattering cedar.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 80.00 chs.

[illegible]	North, bet. secs. 1 and 6.
	Over mountainous land, through scattering cedar timber and under growth; ascend.
40.00	Set a limestone, 24 x 8 x 8 ins., 18 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 high, W. of cor.
	Pits impracticable.
64.00	Top of divide ridge, bet. Juab and Sage Valleys 300 ft. above sec. cor., bears N. 27° E. and S. 20° W.; descend over steep rocky cliffs and ledges.
41.30	Intersect S. bdy. T. 14 S. R. 1 W.; 79.00 chs. W. of the cor. of secs. 5; 6, 31 and 32, heretofore described.
	Set a conglomerate stone, 18 x 12 x 12 ins. 12 ins. in the ground, for closing cor. of Tps. 13 S. Rs. 1 and 1 1/2 W., marked C. C. 13 S. on S.; 1 W. on E., and 1 1/2 W. on W. faces; with 6 grooves on S., E., and W. faces; and raise a mound of stone, 3 ft. base, 3 ft. high, S. of cor.
	Pits impracticable.
	Land, mountainous.
	Soil, gravelly and rocky; 2nd. and 4th. rate.
	Timber, scattering cedar.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous land, 41.30 chs.
	May 25, 1898.

May 26, 1898: At 7h 36m a. m., l. m. t., we set off 39° 28' N., on the lat. arc 21° 13' N., on the decl. arc; and determine a true meridian with the solar at the cor. of Tps. 13 S. R. 1 and 1 1/2 W.

Note: Showing from previous

chains	
	connections that discrepancies exist in the W. bdy. of this Tp. we proceed to retrace it as follows:
	From the above described standard cor. of Tp. 15 S. Rs. 1 and 1 1/2 W. we run N. on a retracement line bet. secs. 31 and 36; at 40.00 chs. find no trace of 1/4 sec. cor; and at 75.75 chs., find no trace of the cor. of secs. 25, 30, 31 and 36: therefore we continue our line north, find no trace of 1/4 sec. cor. bet. secs. 25 and 36.
	At 155.75 chs. we fall 4.06 chs. E. of the cor. of secs. 19, 24, 25 and 30, and at 196.75 chs. fall 5.15 chs. E. of the 1/4 sec. cor. bet. secs. 19 and 24.
	The falling answers to a correction of 1° 30' or 209 lks. W. per mile counting from the S. W. cor of Tp.
	We resurvey the boundary line as follows:
	The old 1/4 sec. cor. bet. secs. 19 and 24 is a post greatly decayed, and the marks are nearly obliterated.
	We destroy all traces of old. cor. and reestablish it at the same point as follows:
	Set a trachyte stone, 15 x 12 x 4 ins. 10 ins. in the ground, for reestablished 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. as previously stated. Pits impracticable.
	Thence we run.
	S 1° 30' E., on a resurvey line bet. the S. halves. of secs. 19 and 24.
	Over mountainous land, through dense undergrowth: descend.
18.50	Foot. of descent; enter bottom of Chicken Creek Cañon; leave under

Chains	
	growth bears N. 73° E. and S. 73° W.
21.50	Wagon road leading from Juab to Lemington, bears N. 73° E. and S. 73° W.
23.48	N. side of new frame house, on line
25.75	Telegraph line, bears N. 73½° E. and S. 73½° W.
26.25	Oregon Short Line railroad track bears N. 73½° E. and S. 73½° W.
26.80	Chicken Creek, 5 lks. wide, 6 ins. deep rapid current, rocky bottom, clear water, course S. 73½° W.
39.22	Fence, bears E and W.
c 41.00	We find a greatly decayed post in mound, marked and witnessed as described by the surveyor general, for the cor. of secs. 19, 24, 25 and 30.
19.50 / 22.50	We destroy all traces of old cor. and reestablish it at the same point as follows:
	Set a trachyte stone, 15 x 12 x 4 ins; 10 ins. in the ground, for reestablished cor. of secs. 19, 24, 25 and 30 marked with 4 notches on N. and 2 notches on S. edges; and raise a mound of stone, 2½ ft. base, 1½ ft. high. W. of cor. Pits impracticable
	Land, mountainous and nearly level.
	Soil, clay and gravelly loam: 2nd. rate.
	No timber.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 18.50 chs.
	S. 1° 30' E. on a resurvey line bet. secs. 25 and 30.

West bdy. of T. 13 S., R. 1 W. continued.

chains	
	Over rolling land, through dense undergrowth; ascend.
39.00	Center of county road leading from Jual to Scipio; bears N. 40° E. and S. 40° W.
39.80	Telephone line, bears N. 40° E. and S. 40° W.
40.00	Find no trace of 1/4 sec. cor. Set a quartzite stone, 17 x 8 x 6 ins., 12 ins. in the ground, for reestablished 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 stone covered with earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor. Begin ascent, bears N. E. and S. W.
76.50	Top of flat ridge, 75 ft. above 1/4 sec cor: bears N. 80° E. and S. 80° W.: descend gently.
80.00	Find no trace of cor. of secs. 25. 30. 31 and 36. Set a sandstone, 11 x 10 x 6 ins., 9 ins. in the ground, for reestablished cor. of secs. 25; 30, 31, and 36. marked with 5 notches on N. and 1 notch 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, level and mountainous. Soil, sandy loam. 1st. rate. No timber. Undergrowth sage brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth. 80.00 chs.

X

S. 1° 30' E., on a resurvey line bet. secs. 31 and 36.

	chains	Over nearly level land, gently descending; through dense under growth.
	40.00	Find no trace of 1/4 sec. cor. Set a quartzite stone, 19 x 12 x 6 ins., 13 ins. in the ground, for reestablished 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.
6	75.75	The reestablished standard cor. of Tp. 15 S., Rs. 1 and 1 1/2 W. heretofore described. Land, nearly level. Soil, sandy loam; 1st rate. No timber. Undergrowth sage brush. Good grass for grazing. Land covered with dense under growth 75.75 chs. May 26, 1898. At this cor. we set off 21° 14' N., on the declarc; and at 0h 3m p. m., l. m. t., observe the sun on the meridian the resulting lat. is 39° 28' N.
		Note: On account of the closing already made on the meridian, we deem it necessary to retrace the E. bdy. of T. 15 S., R. 1 W. We proceed as follows: From the Standard cor. of Tps. 15 and 16 S., R. 1 E., heretofore described, we run N. 0° 30' W., on a retracement line bet. secs. 31 and 36.
	39.62	The 1/4 sec. cor. bet. secs. 31 and 36 which is a limestone, 15 x 16 x 6 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general, bears W. 69 lks. dist.
6	78.75	The cor. of secs. 25, 30, 31 and 36, which

Retracement of the East. bdy. T. 15 S. R. 1 W. continued

	chains	is a sandstone, 4 X 12 X 8 ins., above ground, firmly set, and marked, and witnessed as described by the surveyor general, bears W. 137 lks dist. The course of this line is therefore, N. 1° 30' W. + dist 78.76
		N. 0° 30' W. on a retracement line bet. secs. 25 and 30.
	39.50	The 1/4 sec. cor. bet. secs. 25 and 30 which is a limestone, 5 X 14 X 8 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general, bears W. 70 lks. dist.
C	79.00	The cor. of secs. 19, 24, 25; and 30, which is a flint stone, 4 X 12 X 10 ins, above ground, firmly set, and marked and witnessed as described by the surveyor general, bears W. 138 lks. dist. The course of this line is therefore N. 1° 30' W. + dist 79.01
		Note: From the course of the lines just run we are convinced that the course of this boundary is N. 1° 30' W. Therefore we run. N. 1° 30' W., on a retracement line bet. secs. 19 and 24.
	39.92	The 1/4 sec. cor. bet. secs. 19 and 24, which is a quartzite stone, 6 X 16 X 12 ins., above ground, firmly set, and marked, and witnessed as described by the surveyor general.
d	79.80	The cor. of secs. 13, 18, 19, and 24, which

is a sandstone, 6 X 8 X 6 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general.

N. 1° 30' W., on a retracement line bet secs. 13 and 18.

40.00 The 1/4 sec. cor. bet. secs. 13 and 18 which is a cobble stone, 3 X 9 X 5 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general.

c 80.00 The cor. of secs. 7, 12, 13, and 18 which is a cobble stone, 4 X 9 X 8 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.

N. 1° 30' W., on a retracement line bet secs. 7 and 12.

40.00 The 1/4 sec. cor. bet. secs. 7 and 12, which is a cobble stone, 4 X 4 X 6 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general.

c 80.00 The cor. of secs. 1, 6, 7, and 12 which is a cobble stone, 4 X 9 X 8 ins., above ground firmly set, and marked and witnessed as described by the surveyor general.

N 1° 30' W., on a retracement line bet. secs. 1 and 6.

40.00 The 1/4 sec. cor. bet. secs. 1 and 6 which is a cobble stone, 4 X 10 X 9 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general.

c 80.00 The cor. of Tps. 14 and 15 S., Rs. 1 E. and 1 W. which is

Meandered of E. Boundary of T. 15 S., R. 1 W. - Concluded.

Chains a porphory stone 6 x 10 x 10 ins above ground, firmly set and marked and witnissed as described by the surveyor general.

May 26, 1898.

Boundaries of T. 15 S., R. 1 W.
Latitudes departures and closing errors.

Line designated.	True bearing	distance	Latitudes N.	Latitudes S.	Departures E.	Departures W.
		chs.	chs.	chs	chs	chs.
E. bdy. T. 15 S., R. 1 W.	North	4.65	4.65			
E. bdy. T. 15 S., R. 1 W.	N. 1°30' W.	477.55	477.39			12.50
N. bdy. T. 15 S., R. 1 W.	West	479.00	[illegible]			479.00
W. bdy. T. 15 S., R. 1 W.	South	291.30	[illegible]	291.30		
W. bdy. T. 15 S., R. 1 W.	S. 1°30' E.	196.75		196.68	5.15	
S. bdy. T. 15 S., R. 1 W.	East	162.45			162.45	
S. bdy. T. 15 S., R. 1 W.	N. 88°30' E.	241.59	6.32		241.57	
S. bdy. T. 15 S., R. 1 W.	East	83.64			83.64	
Convergency						.60
Totals			488.36	487.98	492.75	492.10
Error in Lat.			487.98		492.10	
			.38			
Error in Dep.					.65	

This fractional township is mostly rough and mountainous, but is rolling in the southwestern part. Little Salt Creek runs through the southeastern part, and there is some cedar timber scattered through all parts. It should be subdivided.

Scott O. Stewart
Andrew J. Stewart Jr.
U. S. Deputy Surveyors.
May 26, 1898.

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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 .....

....., 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 .....

.....

showing the respective capacities in which they acted:

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

....., United States Deputy Surveyor, in surveying all those parts or portions of the .....

.....

.....

..... of the .....

..... meridian, ... of ....., 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 .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

.....

.....

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..., United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from ..... United States Surveyor General for ....., bearing date of t ..... day of ....., 189 , I have well, faithfully, and truly, in my 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 t United States, surveyed all those parts or portions of .....

.....

.....

.....

..... 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; and should any fraud be detected, I will suff the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

.....

United States Deputy Surveyo

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

SEAL

.....

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 23, 1900, 189

The foregoing field notes of the survey of the West Boundary of Township 15 South Range 1 West of the Salt Lake Base & Meridian Utah

.....

.....

.....

.....

executed by Scott P. Stewart and Andrew J. Stewart Jr. under the contract No. 217, dated November 1st, 189 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and th surveys they describe, are hereby approved.

Jacob B. Bl

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.

BOOK A-257

FIELD NOTES

OF THE SURVEY OF THE

Subdivisions

of

Township 15 South, Range 1 West.

Of the Salt Lake Base and Meridian,

Utah.

AS SURVEYED BY

P. H. Stewart & Andrew J. Stewart Jr. United States Deputy Surveyors

their ~~his~~ Contract No. 217, dated November 1st, 1897.

Survey commenced May 26th, 1898.

Survey completed May 31st, 1898.

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Subs # 4 52 39
" L 4 01 40
Closing 7 88

Retirement 2.79-06
Resurvey # 7.11-72
" L 5.07.08

NAMES AND DUTIES OF ASSISTANTS.

John R. Stewart, Chainman.

Daniel St. Y. McAllister, Chainman.

William W. Richardson Jr. Chainman.

Alma Betts, Chainman.

Antone P. Stewart, Mounduman.

Peter S. Sorensen, Mounduman.

Benjamin F. Stewart, Axman.

Quimby Stewart, Flagman.

See preliminary affidavits see book "A"

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BOOK A-257

INDEX DIAGRAM.

Township 15 South, Range 1 West.

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12. 31	8.	25 32		33		34		35	5.	6. 36	4.

Meanders Page

6—151

PRELIMINARY OATHS OF ASSIS

WE, _____ and _____ 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 _____

_____, *Chainman.*

_____, *Chainman.*

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 moundmen in the establishmen of corners, according to the instructions given us, to the best of our skill and ability, in the survey _____

_____, *Moundma*

_____, *Moundm*

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 co and other duties, according to instructions given us, to the best of our skill and ability, in the surv _____

_____, *A.*

_____, *A.*

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

SEAL

I, _____, do solemnly swear that I will well an perform the duties of flagman according to instructions given me, to the best of my skill and abilit survey of _____, *F*

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

SEAL

Subdivision of T. 15 S., R. 1 W. S. L. B. and M.

Chains	
	Survey commenced May 26, 1898, and executed with a W. and S. E. Gurley light mountain transit No. -, with a 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 latitude and declination arcs; and a Buff and Berger transit, No. 2511, the horizontal limb having two double verniers reading to single minutes of arc.
	The instruments were examined, tested on the true meridian at Salt Lake City, found correct, and were approved by the surveyor general for Utah, the former, December 4, 1897, and the latter, April 5, 1898.
	We examine the adjustments of the instruments, and correct the level and collimation errors; then, to test the solar apparatus, of the Gurley instrument, by comparing its indications, resulting from solar observations, made during p. m. and a. m. hours, with a true meridian determined by observations on Polaris, we proceed as follows:-
	At the ¼ sec. cor. between secs. 25 and 36, latitude 39° 29′ N.; longitude 111° 55′ W.; we set off 39° 29′ N., on the lat. arc; 21° 17′ N., on the decl. arc; and at 4h 30m p. m., l. m. t., determine a true meridian with the solar of the Gurley instrument, and mark a point thereof on a stone, firmly set in the ground, 5 chs.

Subdivision of T. 15 S., R. 1 W. - Continued.

N. of the cor.

May 26, 1898.

May 27, 1898:- At 3h 6m a.m., l.m.t., observe Polaris at eastern elongation, with the Buff and Berger instrument, in accordance the Manual of Instructions and mark a point on the line determined on a plug driven in the ground, 5 chs. N. of our station. At 6h 15m a.m., l.m.t., we lay off the azimuth of Polaris 1° 36' to the west, on the Buff and Berger transit, and mark the True Meridian thus determined, by cutting a small groove in the stone set May 26, on which the true meridian falls 0.3 ins. east of the mark determined by the solar, of the Gurley instrument. At 6h 30m a.m., l.m.t., we lay off the azimuth of Polaris 1° 36'.8 to the west, on the Gurley instrument, and mark the True Meridian thus determined by cutting a small groove in the stone set May 26, on which the true meridian falls 0.3 ins. east of the determined by the solar. At 7h 3m a.m., l.m.t., we set off 39° 29' N., on the lat. arc; 21° 23' N., on the decl. arc; and mark a point in the true meridian determined with the solar, of the Gurley instrument, by a cross on the stone already set 5 chs. N. of our station; this mark falls 0.25 ins. east of the mark determined by Polaris observation. The solar apparatus of the Gurley instrument,

Chains. by p. m. and a. m. observations, defines positions for true meridians, respectively about 0'16" west and 0'13" east of the meridian established by Polaris observation: therefore we conclude that the adjustments of the instruments are satisfactory.
The magnetic bearing of the true meridian at 7h 30m a.m. is N. 16° 34' W.; the angle thus determined, reduced by the table, page 100, gives the mean mag. decl. 16°30' E.
Begin at the ¼ sec. cor. between secs. 25 and 36, which is a badly decayed post marked and witnessed as described by the surveyor general. We destroy all traces of the old cor. and re-establish it at the same point as follows:
Set a trachyte stone, 16x10x4 ins., 11 ins. in the ground, for re-established 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.
Thence we run
East, on a random line between secs. 25 and 36.
43.15 Intersect E. bdy. of Tp. 48 lks. S. 1°30' E. of the cor. of secs. 25, 30, 31, and 36, heretofore described.
Set a limestone, 16x10x6 ins., 11 ins. in the ground, for closing cor. of secs. 25 and 36, marked C. C. on W.; with five grooves on N., and 1 groove on S. faces; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
Note: We destroy all marks on the cor. of secs. 25, 30, 31, and 36.

Subdivision of T. 15 S., R. 1 W.- Continued.-

which pertain to secs. 25 and 36.
Thence we run
West, on a true line bet. secs. 25 an
36.
Over mountainous land,
scattering cedar timber, descen.
2.65 Bottom of hollow, 50 ft. below cor.
Course, N. 10° W.; ascend.
10.50 Top of ridge, 75 ft. above hollow,
bears N. W. and S. E.; descend.
24.00 Leave cedar timber, bears N. W.
and S. E.
29.00 Bottom of swale, 150 ft. below ridge,
course N.; ascend.
39.00 Top of ridge, 75 ft. above swale,
bears N. and S.; descend.
- 43.15 The re-established ¼ sec. cor. bet.
secs. 25 and 36.
Sand, mountainous.
Soil, gravelly loam, and rocky;
2nd and 4th rate.
Timber, scattering cedar.
Good grass for grazing.
Mountainous land, 43.15 chs.
Note:- This closing being out of
limits, we proceed to retrace the
N. and W. bdys. of sec. 36, as follows:
From the ¼ sec. cor. bet. secs. 25 an
36, heretofore described, we run
West, on a retracement line, bet.
the W. halves of secs. 25 and 36.
40.00 The cor. of secs. 25, 26, 35, and 36, which
is a greatly decayed post in
marked and witnessed as de-
scribed by the surveyor general
bears S. 93 lks. dist.
The course of this line is therefore
N. 88° 40' E.

Chains	
	South on a retracement line bet. secs. 35 & 36.
40.00	Find no trace of ¼ sec. cor.
82.00	The reestablished standard cor. of secs. 35 and 36 heretofore described, bears E. 191 lks dist. The course of this line is therefore N. 1° 20' W.
	Thence we run
	N. 1° 20' W., on a resurvey line bet. secs. 35 and 36.
	Over gently rolling land, through scattering cedar timber and dense undergrowth.
22.00	Water ditch, 6 lks wide, course W.
	Leave timber and undergrowth
35.00	Water ditch, 8 lks. wide, course N. W.
38.75	Wire fence, bears E. and W.
39.70	Little Salt Creek, 10 lks. wide, 7 ins. deep, rapid current, course N. 25° W.
41.00	Set a sandstone, 20 x 12 x 8 ins. 15 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. We search diligently but find no trace of old ¼ sec. cor.
82.00	The cor. of secs. 25, 26, 35, and 36, We destroy all traces of old cor. and reestablish it at the same point as follows:
H 22/L 60	Set a trachyte stone, 15 x 12 x 4 ins., 12 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.
	Sand, gently rolling.
	Soil, clayloam; 2nd rate.
	Timber, scattering cedar.
	Sand, covered with dense under-growth, 22.00 chs.
	N. 88° 40' E. on a resurvey line bet. the W. halves of secs. 25 and 36.
	Over level land.
20.00	Foot of mountain, bears N. and S.;

Subdivision of T. 15 S., R. 1 W.—Continued.

Chains	
	ascend mountain.
23.00	Enter cedar timber, bears N. and S.
33.50	Top of ridge, 100 ft. above cor. bears N. E and S. W.; descend.
35.20	Bottom of hollow, 40 ft. below ridge, course S. W.; leave cedar timber, bears N. E. and S. W.; ascend.
c 40.00	The reestablished ¼ sec. cor. bet. secs. 25 and 36.

Sand, level and mountainous.
Soil, clay and gravelly loam; 2nd and 3rd rate.
Timber scattering cedar.
Good grass for grazing.
Mountainous land, 20.00 chs.

From the ¼ sec. cor. bet. secs. 24 and 25, which is a greatly decayed post in mound marked and witnessed as described by the surveyor general; and which we reestablish at the same point as follows: Set a quartzite stone, 14 x 8 x 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, N. of cor. Pits impracticable.
Thence we run
East, on a true line, bet. the E. halves of secs. 24 and 25.
Note. We run this line on a true line, knowing from previous connections that it will not intersect the E. bdy. within limits.
Over level land through dense undergrowth.

12.50	Foot of mountain, bears N. E. and S. W.; ascend mountain.
26.50	Top of spur, 80 ft. above ¼ sec. cor. bears N. and S.; descend.
29.60	Bottom of hollow, 70 ft. below ridge, [illegible] N. W.; [illegible]

Subdivision of T. 15 S., R. 1 W. Continued.

Chains	
	course N. W.; ascend.
41.00	Intersect E. bdy. of Tp. 40 lks. S. 1° 30' E. of cor. of secs. 19, 24, 25, and 30, heretofore described.
"	Set a limestone, 16x10x6 ins., 11 ins. in the ground, for closing cor. of secs. 24 and 25, marked C.C. on W., with 4 grooves on N. and 2 grooves on S. faces; and raise a mound of stone, 2 ft. base 1½ ft. high, W. of cor. Pits impracticable.
	Note.- We destroy all marks on the cor. of secs. 19, 24, 25, and 30, which pertain to secs. 24 and 25.
	Sand, level and mountainous.
	Soil, clay and gravelly loam, and rocky; 2nd and 4th rate.
	No timber.
	Good grass for grazing.
	Undergrowth, sage brush.
	Mountainous land, or land covered with dense undergrowth, 41.00 chs.
	May 27, 1898: At the noon hour the sky is overcast and solar observations are impossible.

Note.- Finding that sec. 24, will not close within the prescribed limits we consider it necessary to retrace sufficient lines to locate the discrepancy. We proceed as follows:

From the cor. of secs. 13, 18, 19, and 24, on E. bdy. of Tp. heretofore described, we run West, on a retracement line bet. secs. 13 and 24.

40.00	Find no trace of old ¼ sec. cor. after diligent search.
79.25	The cor. of secs. 13, 14, 23, and 24, which is a cobblestone 5x7x7 ins. above ground, firmly set and marked and witnessed as described by the surveyor general.

Chains	
	From the reestablished standard cor. of secs. 31 and 32, heretofore described, we run
	North, on a random line bet. secs. 31 and 32.
40.00	We find no trace of old ¼ sec. cor.
77.58	The cor. of secs. 29, 30, 31, and 32, which is a greatly decayed post in mound, marked and witnessed as described by the surveyor general, bears W. 181 lks. dist. We destroy all traces of old cor. and reestablish it at the same point as follows:
	Set a trachyte stone, 18 x 12 x 4 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; and raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	Thence we run
	S. 1° 20' E., on a true resurvey line bet. secs. 31 and 32. Over gently ascending land, through dense undergrowth
40.00	Find no trace of ¼ sec. cor.
	Set a trachyte stone 14 x 12 x 6 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 cor. Pits impracticable.
77.60	The standard cor. of secs. 31 and 32
	Sand rolling.
c 40/37.60	Soil clay loam; 2nd rate.
	Timber scattering cedar.
	Undergrowth, sage brush.
	Good grass for grazing.
	Sand covered with dense undergrowth, 77.60 chs.

Note.- Knowing from previous retracements and connections,

Subdivision of T. 15 S., R. 1 W. - Continued.

Chains	
	that the lines in this township are not N. and S. and E. and W. lines, and that nearly all the corners are missing; we conclude to retrace, and if necessary, re-survey all the lines adjacent to our work. We proceed as follows:- From the cor. of secs. 29 and 30, 31 and 32, heretofore described, we run North, on a retracement line bet. secs. 29 and 30. At 40.00 chs we find no trace of ¼ sec. cor.; and at 80.00 chs, find no trace of cor. of secs. 19, 20, 29, and 30; therefore we continue our line north, find nearly all the cor. obliterated. At 240.95 chs., the cor. of secs. 7, 8, 17, and 18, which is a greatly decayed post in an old mound, marked and witnessed as described by the general, bears W. 5.61 chs. dist. The falling answers to a correction of 1° 20' or 18 links W. per mile, counting from the cor. of secs. 21, 30, 31, and 32; and the length of each mile will be 80.34 chs. Note:- We proceed to resurvey the line just retraced as follows:- Set a trachyte stone, 16 x 8 x 4 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. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	Thence we run S. 1° 20' E., on a resurvey line bet. secs. 17 and 18. Over rolling land, through dense undergrowth.
40.17	Set a limestone, 15 x 10 x 15 ins., 12 ins.

chains	
	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. No trace of the old ¼ sec. cor. can be found.
49.00	Wash, 10 lks. wide, course E.
80.34	Set a sandstone, 24 × 15 × 12 ins., 18 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; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. Find no trace of old cor. of secs. 17, 18, 19, and 20. Sand, rolling. Soil, clay loam; 2nd rate. No timber. Undergrowth, sagebrush. Good grass for grazing. Sand covered with dense under-growth, 80.34 chs.
	May 27, 1898.
	May 28, 1898:- At 7h 2m a.m., l. m. t., we set off 39° 31' N., on the lat. arc. 21° 33' N., on the decl. arc; and determine a true meridian with the solar at the cor. of secs. 17, 18, 19, and 20. Thence we run S. 1° 20' E., on a resurvey line bet. secs. 19 and 20. Over rolling land, through scattering undergrowth.
14.75	Telephone line, N. 40° E. and S. 40° W.
15.00	County road leading from Juab to Scipio, bears N. 40° E. and S. 40° W.
19.50	Telegraph line, bears N. 40° E. and S. 40° W.
20.00	Oregon Short Line railway track,

chains.	
	bears N. 40° E. and S. 40° W.
25.00	To bank of Chicken Creek reservoir.
	Set a limestone, 16x10x6 ins., 11 ins. in the ground, for witness cor. to ¼ sec. cor., marked W. C., ¼ on W. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	To pass the reservoir, we offset as follows:-
	West 35.00 chs.
	S. 1° 20' E. 15.17 chs. 35.00 chs. W. of The point for ¼ sec. cor. in reservoir.
	S. 1° 20' E. 36.17 chs.
	E. 35.00 chs. to point on line bet. secs. 19 and 20 to South bank of Chicken Creek reservoir,
76.34	Set a limestone, 16x10x5 ins., 11 ins. in the ground, for witness point, marked W. P., 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.
	Thence S. 1° 20' E. 6.00 chs. to the point for sec. cor.
C 80.34	Set a quartzite stone, 16x8x6 ins., 11 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.
	We find no trace old cor.
	Sand, nearly level.
	Soil, sandy and clay loam; 1st and 2nd rate.

Subdivision of T. 15 S., R. 12 W. - Continue

and No timber.
Undergrowth, sage-brush and shadscales.
Good grass for grazing.

X S. 1°20' E., on a resurvey line bet. secs. 29 and 30.
Over land gently ascending to the south; through dense under-growth.
40.17 Set a trachyte stone, 14 x 12 x 4 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 cor. Pits impracticable. We search diligently, but find no trace of old ¼ sec. cor.
C 80.34 The cor. of secs. 29, 30, 31, and 32, heretofore described.
Sand, rolling.
Soil, clay and sandy loam; 2nd rate.
No timber.
Undergrowth, sage-brush.
Good grass for grazing.
Sand covered with dense under-growth, 80.34 chs.

West, on a retracement line bet. secs. 30 and 31.
40.00 Find no trace of ¼ sec. cor.
82.65 Intersect W. bdy. of Tp. 19.2 lks. N. 1°30' W. from the cor. of secs. 30 and 31. heretofore described.
Thence we run
N. 88°40' E. on a resurvey line, bet. secs. 30 and 31.
Over rolling land, through

Subdivision of T. 15 S., R. 1 W. - Continued. -

chains.	
	undergrowth.
41.31.	Set a trachyte stone, 22 x 10 x 6 ins., 17 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.
	We find no trace of old ¼ sec. cor.
50.85	Wood road, bears N. E. and S. W.
82.62	The cor. of secs. 29, 30, 31, and 32.
	Sand, rolling.
	Soil, sandy loam; 2nd rate.
	No timber.
	Undergrowth, sage brush.
	Good grass for grazing.
	Sand covered with dense under growth, 82.62 chs.
	May 28, 1898:- At this cor. we set off 21° 35' N., on the decl. arc; and at 0h 1m p. m., l. m. t., observe the sun on the sun on the meridian, the resulting lat. is 39° 29' N.; which is about 0'.12 greater than the proper lat.
	From the cor. of secs. 17, 20, 29, and 30, heretofore described, we run West, on a retracement line bet. secs. 19 and 30.
40.00	Find no trace of ¼ sec. cor.
83.03	Intersect W. bdy. of Tp. 19 3 lks. N. 1° 30' W. from the cor. of secs. 19 and 30, heretofore described.
	Thence we run N. 88° 40' E., on a resurvey line bet. secs. 19 and 30.
	Over rolling land, through dense undergrowth, gently ascending.
33.85	County road, leading from Jual to Scipio, bears N. E. and S. W.
34.15	Telephone line from Jual to Scipio, bears N. 39° E. and S. 39° W.
38.30.	Top of spur 50 ft. above road,

Subdivision of T. 15 S., R. 1 W. - Continued.

Chains	
	bears N. and S. descend gently.
41.50	Set a limestone, 20 x 14 x 11 ins.; 15 ins. in the ground, marked ¼ on N. face; and raise a mound of stone 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable. We search diligently, but find no trace of old ¼ sec. cor.
C 83.00	The cor. of secs. of 19, 20, 29, and 30.
	Sand, rolling.
	Soil, clay and sandy loam; 2nd rate.
	No timber.
	Undergrowth, sagebrush and shadscales.
	Good grass for grazing.
	Sand covered with dense undergrowth, 83.00 chs.

Note: We are unable to find the ¼ sec. cor. bet. secs. 18 and 19, therefore we begin at the cor. of secs. 17, 18, 19, and 20.

Thence we run

West, on a random line bet. secs. 18 and 19.

40.00	Set temp. ¼ sec. cor. No trace of old cor.
82.38	Intersect W. bdy. of Tp. 1 27 lks. N. of the cor. of secs. 18 and 19, heretofore described.

Note: In order to establish the line bet. secs. 18 and 19, as near as possible in its original position, we conclude to run it parallel to the S. bdy. of sec. 19, therefore at a point 66 lks. S. of the cor. of secs. 18 and 19, we set a limestone, 18 x 10 x 8 ins.; 12 ins. in the ground, for closing cor. of secs. 18 and 19, marked C.C. on

Subdivision of T. 15 S., R. 11 W. - Continued.

Chains	
	E.; with 3 grooves on N. and S. faces; and raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. Pits impracticable.
	Note. We destroy all marks on the cor. of secs. 13, and 24, which pertain to secs. 18 and 19.
	Thence we run N. 88°40' E., on a true line bet. secs. 18 and 19.
	Over mountainous land, through scattering undergrowth; descend.
8.00	Bottom of hollow, 75 ft. below ridge, course S. 5° E.; ascend.
15.50	Top of ridge, 80 ft. above hollow, bears N. 30° W. and S. 30° E.; descend.
41.20	Set a triangle stone, 14 x 10 x 9 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. We find no trace of old ¼ sec. cor.
44.00	Bottom of hollow, 125 ft. below ridge, course S. 35° E.; ascend.
48.00	Top of spur, 40 ft. above hollow, bears N. W. and S. E.; descend
54.75	Bottom of hollow, 75 ft. below spur, course S. E.; ascend.
59.44	Top of spur, 60 ft. above hollow, bears N. 10° W. and S. 10° E.; descend.
65.00	Bottom of hollow, 50 ft. below ridge, course S.; ascend.
70.00	Top of ridge, 20 ft. above hollow

Subdivisions of T. 15 S. R. 1 W. Contin

Chains	
82.40	bears N. and S.; descend.
	The cor. of secs. 17, 18, 19 and 20.
	Sand, mountainous.
	Soil, clay and gravelly loam;
	2nd rate.
	No timber.
	Undergrowth, sagebrush.
	Good grass for grazing.
	Mountainous land, 82.40 chs.

May 28, 1898.

May 30, 1898: At 7h 30m a.m., l.m.t. we set off 39°32' N., on the lat. 21°51' N. on the decl. arc.; and determine a true meridian with the solar at the cor. of secs. 7, 8, 17, and 18, heretofore described.

Note.- We are unable to find the 1/4 sec. cor. bet. secs. 7 and 18, and in order to preserve rectangularity in sec. 18, we run

S. 88°40' W., on a resurvey line bet. secs. 7 and 18 parallel to S. bdy. of sec. 18.

Over rolling land through scattering cedar timber, and dense undergrowth; ascend.

2.00 Top of spur 25 ft. above cor., bears N. and S.; thence over gently rolling land.

40.00 We search diligently, but find no trace of 1/4 sec. cor. Set a sandstone, 18 x 10 x 7 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N.

Subdivision of T. 15 S., R. 1 W. - Continued.

Chains	
	face; from which A cedar, 16 ins., diam., bears N. 22° W., 45 lks. dist., marked ¼ S. 7 B. T. A cedar, 7 ins. diam., bears S. 4° W. 42 lks. dist., marked ¼ S. 18, B. T.
44.90	Bottom of hollow, 40 ft. below ¼ sec. cor., course S. E.; ascend.
67.00	Top of ridge 100 ft. above hollow bears N. W. and S. E.; descend.
70.50	Bottom of hollow 50 ft. below ridge, course S. E.; ascend.
80.69	Intersect W. bdy of Tp. 66 lks S. of the cor. of secs. 7, 12, 13 and 18, heretofore described.
40/40.69	Set a limestone, 16 x 8 x 6 ins., 11 ins. in the ground, for closing cor. of secs. 7 and 18, marked C.C. on E. with 2 grooves on N. and 4 grooves on S. faces; and raise a mound of stone, 2 ft. base 1½ ft. high, E. of cor. Pits impracticable. Note.- We destroy all marks on the cor. of secs. 7, 12, 13, and 18, which pertain to secs 7 and 18. Land, mountainous. Soil clay and sandy loam; 2nd rate. Timber, scattering cedar. Undergrowth, sage-brush. Good grass for grazing. Mountainous land or land covered with dense undergrowth 80.69 chs.
	From the cor. of secs. 7, 8, 17, and 18, heretofore described, we run East, on a retracement line bet. secs. 8 and 17.
40.00	Find no trace of ¼ sec. cor.

Subdivision of T. 15 S. R. 1 W.—

ams 81.22	The cor. of secs. 8, 9, 16, and 17, which is a greatly decayed post in mound, marked and witnes as described by the survey or general, bears N. 189 lks. dist. We destroy all traces of the old cor. and re establish it at the same point as follows: Set a sandstone, 18 x 10 x 6 ins., 12 ins. in the ground, for cor. of secs. 8, 9, 16, and 17, marked with 4 es on S. and 4 notches on E. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	The course of this line is therefore S. 88° 40' W.
	Thence we run S. 88° 40' W. on a resurvey line bet. secs. 8 and 17
	Over rolling land, through scattering undergrowth.
2.00	County road leading from Juab to Scipio, bears N. 40° E. and S. 40° W.
40.62	Set a sandstone, 16 x 8 x 6 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ on 1 face; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable. We search diligently but find no trace of old ¼ sec. cor.
70.00	Wash 20 lks wide, course S. 65° E.
C 81.24	The cor. of secs. 7, 8, 17, and 18.
	Sand, rolling.
	Soil, sandy and clay loam; 2nd rate.
	No timber.
	Undergrowth, sage brush.
	Good grass for grazing.

From the cor. of secs. 8, 9, 16, and 17, heretofore described, we run

Subdivision of T. 15 S., R. 1 W.- Continued.

chains.	North, on a retracement line bet. secs. 8 and 9; at 40.00 chs. find no trace of ¼ sec. cor.; and at 85.48 chs. fall 199 lks. E. of the cor. of secs. 4, 5, 8, and 9; therefore we continue our line north, find no trace of ¼ sec. cor. bet. secs. 4 and 5. At 167.67 chs., intersect N. bdy. of Tp. 3.89 chs. E. of cor. of secs. 4, 5, 32, and 33, heretofore described. The falling answer to a correction of 1°20'. Thence we run S. 1°20' E., on a resurvey line, bet. secs. 4 and 5. Over gently rolling land, through dense undergrowth.
4.00	Wagon road, bears N. W. and S. E.
4.50	Wash, 10 lks. wide, course S. E.
41.05	Set a sandstone, 15 x 10 x 5 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 is proportionate to old distance. We find no trace of old ¼ sec. cor.
c 82.22	The cor. of secs. 4, 5, 8, and 9, which is a gently decayed post in mound, marked and witnessed as described by the surveyor general. We destroy all traces of old cor. and re-establish it at the same point as follows:- Set a conglomerate stone, 16 x 8 x 6 ins., 11 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; and raise a mound of stone, 2 ft. base, and 1½ ft. high, W. of cor. Pits impracticable. Sand, rolling. Soil, sandy and clay loam; 2nd

Chains	
	rate.
	No timber.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Sand covered with dense under-growth; 82.22 chs.
	S. 1° 20' E., on a resurvey line, bet. secs. 8 and 9.
	Over nearly level land, through scattering undergrowth.
42.75	Set a conglomerate stone, 14 x 8 x 6 ins., 9 ins. in the ground, for ¼ sec. cor., marked 7 on W. face; and raise a mound of stone, 2 ft. base, 1½ high, W. of cor.
	Pits impracticable.
83.15	County road leading from Gual to Sapio, bears N. 40° E. and S. 40° W.
✓ 85.50	There established cor. of secs. 8, 9, 16, and 17.
	Sand, nearly level.
	Soil, clay loam; 2nd rate.
	No timber.
	Undergrowth, sage-brush.
	Good grass for grazing.
	May 30, 1898:- At this cor. we set off 21° 52' N., on the decl. arc; and at 0h 4m p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 39° 32' N.; which is about 0.'73 greater than the proper lat.
	Note:- We are unable to find the ¼ sec. cor. bet. secs. 7 and 8. Therefore we begin at the cor. of secs. 7, 8, 17, and 18, heretofore descib-ed, and run N. 1° 20' W., on a resurvey line, bet. secs. 7 and 8.

chains.	
	Note:- We run this line parallel with the E. bdy. of sec. 8.
	Over rolling land, through scattering undergrowth.
5.25	Wash, 10 lks. wide, 2 ft. deep, course S. 65° E.
40.00	Set a limestone, 20 X 14 X 6 ins., 15 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.
	Find no trace of old ¼ sec. cor.
43.30	Wash, 10 lks. wide, 3 ft. deep, course S. 20° E.
80.00	Set a limestone, 18 X 8 X 6 ins., 12 ins. in the ground, for cor. of secs. 5, 6, 7, and 8, marked with 5 notches on S. and 5 notches on E. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	Sand, rolling.
	Soil, clay loam and gravelly; 2nd and 3rd rate.
	No timber.
	Undergrowth, scattering sagebrush.
	Good grass for grazing.
	East on a random line, bet. secs. 5 and 8.
40.00	Find no trace of old ¼ sec. cor.. Set temp. ¼ sec. cor.
81.55	Intersect N. and S. line, 7.40 chs. S. 1° 20' E. of the cor. of secs. 4, 5, and 8 and 9.
	Thence we run S. 88° 40' W., on a true line, bet. secs. 5 and 8.
	Note:- We run this line parallel

chains	with the S. bdy. of sec. 8, in order to establish the line as near as possible in its original position. Over nearly level land, gently ascending to the west; through scattering cedar timber, and undergrowth.
40.00	Set a trachyte stone, 20 x 14 x 9 ins., 13 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. We search diligently but find no trace of old ¼ sec. cor.
81.40	Intersect N. and S. line 5.51 chs. N. 0° 15' W. of the cor. of secs. 5, 6, 7, and 8.
C 40 / L 41.40	Set a limestone, 16 x 10 x 5 ins., 11 ins. in the ground, for closing cor. of secs. 5, and 8, marked C. C. on E.; with 5 grooves on S. and 5 grooves on E. faces; and raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. Pits impracticable.
	Note: We destroy all marks on the cor. of secs. 5, 6, 7, and 8, which pertain to secs. 5 and 8.
	Sand, nearly level.
	Soil, clay loam; 2nd rate.
	Timber, scattering cedar.
	Undergrowth, scattering sage-brush.
	Good grass for grazing.
	West, on a random line bet. secs. 6 and 7, from the cor. of secs. 6 and 7.
40.00	Set temp. ¼ sec. cor.
79.00	Intersect W. bdy. of T. 14 lks. N. of the cor. of sec. ~~6 and 7~~ 1, 6, 7 & 12, heretofore described.
	The folding is not within the

Chains	
	prescribed limits, therefore we set a quartzite stone, 18x8x7 ins., 11 ins. in the ground for closing cor. of secs. 6 and 7, marked C.C. on E., 5 grooves on S. and 1 groove on N. faces; and raise a mound of stone, 2 ft. base 1½ ft. high, E. of cor. Alts impracticable.
	Thence we run East, on a true line bet. secs. 6 and 7.
	Over mountainous land, through scattering cedar timber and undergrowth; descend.
4.00	Bottom of hollow, 10 ft. below cor. course S. 20° W.; ascend.
15.50	Top of ridge 150 ft. above hollow, bears N. 20° E. and S. 20° W.; descend.
39.00	Set a trachyte stone, 18x8x5 ins., 12 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; from which
	A cedar, 8 ins. diam., bears N. 80° W. 35 lks. dist., marked ¼ S. 6, B. T.
	A cedar, 15 ins. diam., bears S. 12° E. 45 lks. dist., marked ¼ S. 7, B. T.
56.85	Bottom of hollow, 500 ft. below ridge, course S. E.; ascend.
59.00	Top of ridge, 110 ft. above hollow, bears N. W. and S. E.; descend.
79.00	The cor. of secs. 6 and 7.
	Sand mountainous.
	Soil, clay and gravelly loam; 2nd rate
	Timber, scattering cedar.
	Undergrowth scattering sage brush.
	Good grass for grazing.
	Mountainous land 79.00 chs.
	May 30, 1898.

Chains.	
	May 31, 1898: At 7h 5m a.m., l.m.t., we set off 39° 32' N., on the lat. arc; 22° 0' N., on the decl. arc; and determine a true meridian with the solar at the cor. of secs. 6 and 7.
	Thence we run
	North, on a random line bet. secs. 5 and 6.
40.00	Set temp ¼ sec. cor.
89.75	Intersect N. bdy. of Tp. 40 lks E. of the cor. of secs. 5, 6, 31, and 32.
	Thence we run
	S. 0° 15' E., on a true line bet. secs. 5 and 6.
	Over rolling land, through dense undergrowth, and scattering cedar timber; descend gently.
22.00	Bottom of hollow, 50 ft. below cor. course N. E.; ascend.
25.00	Top of low ridge, 25 ft. above hollow, bears N. 75° E. and S. 75° W.; descend.
48.00	Bottom of hollow, 50 ft. below ridge, course N. 30° E.; ascend.
49.75	Set a limestone 17 x 10 x 6 ins., 13 ins., in the ground, for ¼ sec. cor. marked ¼ on W. face; from which
	A cedar, 7 ins. diam., bears S. 66° E. 30 lks. dist., marked ¼ S. 5 B. T.
	A cedar, 4 ins. diam., bears S. 21° W. 46 lks. dist., marked ¼ S. 6, B. T.
51.00	Top of low ridge, 20[illegible] ft. above ¼ sec. cor., bears N. 35° E. and S. 35° W.; descend.
74.10	Wash, 10 lks wide, course E.
74.60	Wood road, bears E. and W.

Subdivision of T. 15 S. R. 1 W. - Continued.

Chains	
84.24	The closing cor of secs. 5 and 8.
89.75	The cor. of secs. 6 and 7.
	Sand rolling.
	Soil, clay loam and gravelly; 2nd and 3rd rate.
	Timber scattering cedar.
	Undergrowth, sage brush
	Good grass for grazing.
	Sand covered with dense undergrowth, 89.75 chs.
	Note.- Finding sec. 32 will not close within limits we conclude to retrace the N. and E. bdys. of said sec.
	We proceed as follows:
	From the reestablished cor. of secs. 29, 30, 31, and 32, heretofore described we run
	East, on a retracement line bet. secs. 29 and 32.
40.00	Find no trace of 1/4 sec. cor.
79.98	Intersect N. and S. line 1.86 lks. S. of cor. of secs. 28, 29, 32, and 33, which is a decayed post with marks nearly obliterated. We reestablish the cor. at the same point as follows;
	Set a quartzite stone, 16 x 8 x 5 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. edges; dig pits 24 x 24 x 12 ins. in each sec. 5½ ft. dist., and raise a mound of earth, 4 ft.

base, 2 ft. high, W. of cor.
The course of this line is there
fore N. 88° 40' E, and the distance 80.00 chs.

South on a retracement
line bet. secs. 32, and 33.
39.88 Fall 93 lks W. of old ¼ sec. cor.,
which is a decayed post
with the marks nearly obliterated.
We destroy the old cor. and re-
establish it at same point
as follows;
Set a sandstone 14 x 9 x 7 ins.,
9 ins. in the ground for ¼ sec.
cor., marked ¼ 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 ft.
base, 2 ft. high W. of cor.
c 79.79 The standard cor. of secs.
32 and 33 heretofore described
bears E. 186 lks. dist.
The course of this line is
therefore S. 1° 20' E. and the
distance 79.81 chs.

May 31, 1898.

Note.- The cor. of secs. 17, 18, 19, and
20, and the cor. of secs. 19, 20, 29
and 30 were established on a
true line, and at proportional
distances between the cor. of
secs. 7, 8, 17, and 18, and cor. of
secs. 29, 30, 31, and 32, because
after retracement and enquiry
we were unable to find any
of the original cors. East of
these, within a radius of several
miles.

Subdivision of T. 15 S. R. 1 W. Continued.

Chains.

General Description.

This fractional township is nearly all mountainous or low rolling hills, and the soil ranges from gravelly to rich loam.
The soil of the low rolling hills, and hollows, and the level land is generally rich sandy or clay loam, capable of producing excellent crops without irrigation.
The remaining portion of the township is generally gravelly loam, 2nd and 3rd rate, is covered with an abundant growth of rich and nutritous grasses, and will produce good crops without irrigation.
Cedar timber is found on most of the mountainous part of the township, and nearly the entire township is covered with a dense undergrowth of sage brush.
There are no indications of mineral in the township.
The township is watered by Chicken Creek, which runs through secs. 19 and 20.
Chicken Creek Reservoir lies partly in sec. 20 and partly in sec 19, is used to reservoir the water from Chicken Creek.

and is about 85 chains long by 45 chains wide.
The water from Chicken Creek Reservoir is partly to water land in sec. 19.
There are two settlers in sec 19, William G. Pyper and George McCune.

Scott P. Stewart
Andrew J. Stewart Jr.
U. S. Deputy Surveyors.

Volume
#
R0257

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by .....

....., United States Deputy Surveyor, to assist in running, measuring, and
-king the lines and corners described in the foregoing field notes of the survey of .....

.....

lwing the respective capacities in which they acted:

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

....., United States Deputy Surveyor, in surveying all
so parts or portions of the .....

.....

.....

..... of the .....

..... meridian, ... of ....., 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 .....

..... *Chainman.*

..... *Chainman.*

..... *Moundman.*

..... *Moundman.*

..... *Axman.*

..... *Axman.*

..... *Flagman.*

.....

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

SEAL

-151

I, ... United States Deputy Surveyor, do solemnly swear, in pursuance of a contract received from ..... United States Surveyor General for ..... bearing date of the ..... day of ..... 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 Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

.....

.....

.....of the.....

meridian, in the .....of ....., 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 ....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.

.....

United States Deputy Surveyor.

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, June 23 1900, 189

The foregoing field notes of the survey of The Subdivisions of Fractional Sections Twenty, Twenty-one, Twenty-two, Twenty-three, Twenty-four, Twenty-five, Twenty-six, Twenty-seven, Twenty-eight, Twenty-nine, Thirty-one, Thirty-two, Thirty-three, Thirty-four, Thirty-five, Thirty-six, Thirty-seven, Thirty-eight, Thirty-nine, Forty-one, Forty-two, Forty-three, Forty-four, Forty-five, Forty-six, Forty-seven, Forty-eight, Forty-nine, Fifty-one, Fifty-two, Fifty-three, Fifty-four, Fifty-five, Fifty-six, Fifty-seven, Fifty-eight, Fifty-nine, Sixty-one, Sixty-two, Sixty-three, Sixty-four, Sixty-five, Sixty-six, Sixty-seven, Sixty-eight, Sixty-nine, Seventy-one, Seventy-two, Seventy-three, Seventy-four, Seventy-five, Seventy-six, Seventy-seven, Seventy-eight, Seventy-nine, Eighty-one, Eighty-two, Eighty-three, Eighty-four, Eighty-five, Eighty-six, Eighty-seven, Eighty-eight, Eighty-nine, Ninety-one, Ninety-two, Ninety-three, Ninety-four, Ninety-five, Ninety-six, Ninety-seven, Ninety-eight, 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4—679.

BOOK A-257

FIELD NOTES

OF THE SURVEY OF THE

Third Standard Parallel South

Through

Range 1½ West.

Of the Salt Lake Base and Meridian,

In the State of Utah.

AS SURVEYED BY

...t P. Stewart and Andrew J. Stewart Jr., United States Deputy Surveyor,

...ier ~~his~~ their Contract No. 217, dated November 1st, 1897.

...y commenced June 1st, 1898.

...rvey completed June 2nd, 1898.

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Stand. Pt. 4.59.04 ✓

Closing 8402 ✓

Retracement

E Bdy T15S R2W 5,59.94 ✓ Contingent.

NAMES AND DUTIES OF ASSISTANTS.

John R. Stewart, Chainman.

Daniel St. Y. McAllister, Chainman.

Wm W. Richardson Jr. Chainman.

Alma Betts, Chainman.

Antone P. Stewart, Moundman.

Peter S. Sorensen Moundman.

Benjamin F. Stewart, Axman.

Quinby Stewart, Flagman.

For preliminary affidavits see book "F"

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BOOK A-257

INDEX DIAGRAM.

Township 15 South, *Range* 1½ West

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19	20	21	22	7.	23	24
30	29	28	27	6.	26	25
31	32	33	34	6.	35	36

THIRD STANDARD PARALLEL SOUTH.

4. 3.

Meanders Page

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PRELIMINARY OA

WE, ... and .....

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 .....

....., *Chainman.*

....., *Chainman.*

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 moundmen in the establishmen 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 ....., 189

SEAL

WE, ... and .....

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

.....,

.....,

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

SEAL

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

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

SEAL

Chains. Survey commenced June 1, 1898, and executed with a W. and S. E. Gurley light mountain transit, No. -, with solar attachment, the horizontal limb having 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; and a Buff and Berger transit, No. 2511, the horizontal limb being provided with two double verniers reading to single minutes of arc.

The instruments were examined, tested on the true meridian at Salt Lake City, found correct, and were approved by the surveyor general for Utah, the former December 4, 1897, and the latter April 5, 1898.

We examine the adjustments of the instruments, and correct the level and collimation errors; then, to test the solar apparatus, of the Gurley instrument, 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, we proceed as follows:

At the Standard Corner of Township 15 South, Ranges 1 and 1½ West, latitude 39° 28′ N., longitude 112° W.; We set off 39° 28′ N., on the lat. arc; 22° 11′ N., on the decl. arc; and at 4h 2m p. m., l. m. t., determine a true meridian with the solar, of the Gurley instru-

Chains

ment, and mark a point thereof on a stone firmly set in the ground, 5 chs. N. of the corner.

June 1, 1898.

June 2, 1898. At 2^h 4^m a. m., l. m. t., we observe Polaris at eastern elongation, with the Buff and Berger instrument, in accordance with the Manual of Instructions, and mark a point in the line thus determined on a plug driven in the ground 5 chs. N. of our station. At 6^h 30^m a. m., l. m. t., we lay off the azimuth of Polaris 1° 36'.8 to the west, on the Buff and Berger instrument, and mark the True Meridian thus determined, by cutting a small groove in the stone set June 1, on which the true meridian falls 0.34 ins. east of the mark determined by the solar of the Gurley instrument. At 6^h 40^m a. m., l. m. t., we lay off the azimuth of Polaris 1° 36'.8 to the west, on the Gurley instrument, and mark the True Meridian thus determined by cutting a small groove in the stone set June 1, on which the true meridian falls 0.34 ins. east of the mark determined by the solar.

At 7^h 5^m a. m. l. m. t., we set off 39°28' N., on the lat. arc, 22°16' N., on the decl. arc, and mark a point in the true meridian determined with the solar, of the Gurley instrument, by a cross on the stone already set 5 chs. N. of our station; this mark falls 0.3 ins. east of the true meridian established by

chains	Polaris observation. The solar apparatus of the Gurley instrument, by p. m. and a. m. observations defines positions for true meridians respectively about 0'.15" west and 0'.17" east of the meridian established by Polaris observation, therefore we conclude that the adjustments of the instruments are satisfactory. The magnetic bearing of the true meridian, at 8h 30m a. m. is N. 16°35' W.; the angle thus determined reduced by the table, page 100, gives the mean. mag. decl. 16°30' E. From the standard cor. of T. 15 S., Rs. 1 and 1½ W. heretofore described, we run
X	West, on S. bdy. sec. 36. At this cor., we erect a signal for a test sight from some point to the west. Over mountainous land, through dense undergrowth, and scattering timber, ascend.
10.00	Top of spur, 30 ft. above cor.; bears N. and S.; decend.
15.00	Foot of descent, bears N. W. and S. E.; enter Washboard Valley; leave scattering timber. Difference between measurements of 40.00 chs.; by two sets of chainmen, is 10 lks.; position of middle point. By 1st set, 39.95 chs. By 2nd set 40.05 chs.; the mean of which is
40.00	Set a quartzite stone, 18 X 6 X 5 ins.; 12 ins. in the ground, for standard sec. cor.; marked S. C. 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.
79.00	Telephone line from Juab to

Chains	
	Scipio, bears N. 16° E and S. 16° 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	Set a trachyte stone, 16 X 10 X 8 ins., 11 ins. in the ground, for standard cor. of secs. 35 and 36, marked S. C., on N.; with 1 groove on E. and 5 W. faces; dig pits, 24 X 18 X 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.
	Land, mountainous and level.
	Soil, sandy and clay loam; 2nd rate.
	Timber, scattering cedar.
	Under-growth, sage-brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 80.00 chs.
	West, on S. bdy. sec. 35.
	Over rolling land, through dense sage-brush.
4.44.	County Road from Juab to Scipio, bears N. 20° E. and S. 20° W.
	Difference between measurements of 40.00 chs., by two sets of chainmen, is 14 lks.; position of middle point
	By 1st set, 39.93 chs.
	By 2nd set, 40.07 chs; the mean of which is
40.00	Set a trachyte stone, 16 X 10 X 8 ins., 11 ins. in the ground, for standard ¼ sec. cor., marked S. C. ¼, on N. face;

chains. 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.
Difference between measurements of 59.04 chs., by two sets of chainmen, is 20 lks., position of middle point

By 1st set, 58.94 chs.

By 2nd set, 59.14 chs.; the mean of which is

59.04 Intersect E. bdy. of T. 16 S., R. 2 W., 34.02 chs. S. 0° 35' W. of cor. of Tps. 15 and 16 S., R. 2 W.

Note: We destroy all marks on said cor., which pertain to Tps. 15 S., R. 1½ W. and T. 16 S., R. 1 W.

Set a sandstone, 16x10x6 ins., 11 ins. in the ground, for closing standard corner of T. 15 S., R. 1½ W. and T. 16 S., R. 1 W., marked C. C. on E., S. C. 15 S., 1½ W. on N., 16 S. 1 W. on S.; with 6 grooves on N., and S., and 6 grooves on E. faces; dig pits, 30x24x12 ins.; crosswise on each line N. and S., 4 ft.; and E. of stone, 8 ft. dist.; and raise a mound of earth, 5 ft. base, 2½ ft. high, E. of cor.

Sand, rolling.

Soil, clay loam; 2nd rate.

No timber.

Undergrowth, sage-brush and shadscales.

Sand covered with dense undergrowth, 59.04 chs. X

Note: From this cor., the signal erected at the cor. of T. 15 S., R. 1 and 1½ W. cannot be seen, on account of the rolling nature of the ground; therefore we are unable to compare this parallel with a true meridian established by Polaris observation.

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rains.	June 3, 1898, the sky is overcast the entire forenoon and solar observations are impossible.
	Note: From connections already made on the E. bdy. of T. 16 S., R. 2 W., we are convinced that discrepancies exist in the E. bdy. of T. 15 S., R. 2 W., therefore we proceed to retrace said boundary as follows:
	From the cor. of Tps. 15 and 16 S., R. 2 W., heretofore described, we run north, on a retracement line on E. side of sec. 36.
40.00	The ¼ sec. cor. on E. side of sec. 36, which is a sandstone, 5 x 12 x 6 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general, bears E. 38 lks. dist. To perpetuate the cor., we 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.
80.62	The cor. of secs. 25 and 36, which is a sandstone, 5 x 12 x 9 ins., above ground, firmly set and marked and witnessed, as described by the surveyor general, bears E. 76 lks. dist. To perpetuate the cor., we dig pits, 24 x 24 x 12 ins., in secs. 25 and 36, 6 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	The course of this line is, therefore N. 0° 32' E.
	north, on a retracement line, on E. side of sec. 25.
40.23	The ¼ sec. cor. on E. side of sec. 25,

which is a sandstone, 6x10x5 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general, E. 41 lks. dist. To perpetuate the cor., we 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.

C 80.68 The cor. of secs. 24 and 25, which is a sandstone, 7x12x5 ins., above ground, firmly set, and marke and witnessed as described by the surveyor general, bears E. 82 lks. dist. To perpetuate the cor., we raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.

The course of this line is, therefore N. 0° 35' E.

North, on a retracement line on E. side of sec. 24.

39.50 The ¼ sec. cor. on E. side of sec. 24, is a sandstone, 4x9x8 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general, bears E. 22½ lks. dist. To perpetuate the cor., we dig pits, 18x18x12 ins. N. and S. of stone, 3 ft. dist.; and raise a m of earth, 3½ ft. base, 1½ ft. high, W.

C 79.65 The cor. of secs. 13 and 24, which is a sandstone, 6x9x5 ins., ab ground, firmly set, and m ed and witnessed as described the surveyor general, bears E. lks. dist. To perpetuate the cor.

chains.	we dig pits, 24 x 24 x 12 ins. in secs. 13 and 24, 6 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. The course of this line is, therefore N. 0° 20' E.
	North, on a retracement line on E. side of sec. 13.
39.00	The ¼ sec. cor. on E. side of sec. 13, which is a sandstone, 4 x 12 x 5 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general, bears E. 56 lks. dist. To perpetuate the cor., we 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.
c 79.40	The cor. of secs. 12 and 13, which is a sandstone, 5 x 12 x 7 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general, bears E. 106 lks. dist. To perpetuate the cor., we dig pits, 24 x 24 x 12 ins., in secs. 12 and 13, 6 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. The course of this line is, therefore N. 0° 45' E. Note: June 3, 1898: At the noon hour, the sky is overcast and solar observations are impossible.
	North, on a retracement line on E. side of sec. 12.

Retracement of the c. ay.

Chains	
40.00	The ¼ sec. cor. on E. side of sec. 12, which is a quartzite stone, 4x12x7 above ground, firmly set, and marked and witnessed as ed by the surveyor general, bears E. 45 lks. dist. To perpetuate the cor. we dig pits, 18x18x12 ins., N. and S. of stone, 3 ft. dist.; and raise a of earth, 3½ ft. base, 1½ high, W. of cor.
C 80.24	The cor. of secs. 1 and 12, which is a sandstone, 7x12x8 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general, bears E. 91 lks. dist. To perpetuate the cor., we dig pits, 24x24x12 ins., in secs. 1 and 12, 6 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. The course of this line is, therefore N. 0°39' E.
	north, on a retracement line on E. side of sec. 1.
40.00	The ¼ sec. cor. on E. side of sec. 1, which is a quartz stone, 5x11x11 ins above ground, firmly set, and marked and witnessed as described by the surveyor al, bears E. 35 lks. dist. To perpetuate the cor., we 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.
C 52.35	The closing cor. of Tp. 14 S., R. 1 W. and T. 15 S., R. 1½ W., heretofore described, bears E. 46 lks. dist. The course of this line is, therefore N. 0°30' E. June 3, 1898.

Boundaries of T. 15 S., R. 1½ W. - Concluded.

Latitudes, departures, closing errors.

Line designated.		True bearing	Dist.	Latitudes N.	Latitudes S.	Departures E.	Departures W.
			Chs.	Chs.	Chs.	Chs.	Chs.
3 Standard Parallel S.	West		139.04				139.04
W. bdy. T. 15 S., R. 1½ W.	N. 0° 35' E.		34.02	34.02		.35	
W. bdy. T. 15 S., R. 1½ W.	N. 0° 32' E.		80.62	80.62		.76	
W. bdy. T. 15 S., R. 1½ W.	N. 0° 35' E.		80.68	80.68		.82	
W. bdy. T. 15 S., R. 1½ W.	N. 0° 20' E.		79.65	79.65		.45	
W. bdy. T. 15 S., R. 1½ W.	N. 0° 45' E.		79.41	79.40		1.06	
W. bdy. T. 15 S., R. 1½ W.	N. 0° 39' E.		80.25	80.24		.91	
W. bdy. T. 15 S., R. 1½ W.	N. 0° 30' E.		52.35	52.35		.46	
N. bdy. T. 15 S., R. 1½ W.	East		128.60			128.60	
E. bdy. T. 15 S., R. 1½ W.	South		291.30		291.30		
E. bdy. T. 15 S., R. 1½ W.	S. 1° 30' E.		196.73		196.68	5.15	
Convergency						.17	
Totals				486.96	487.98	138.73	139.04
					486.96		138.73
Error in Lat.					1.02		
Error in Dep.							.31

General Description.

Through range 1½ W., the Third Standard Parallel South extends into Washboard Valley which is very rolling. The land lying south of the line consists of rolling valley land which contains some cedar timber.

It should be subdivided.

The land lying north of the line is partly valley and partly mountainous, is fairly well watered, and should be subdivided.

June 3, 1898.

Scott P. Stewart,
Andrew J. Stewart Jr.
U. S. Deputy Surveyors.

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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 ..... 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 .....

.....

showing the respective capacities in which they acted:

..... *Chainman.*

..... *Chainman.*

..... *Moundman.*

..... *Moundman.*

..... *Axman.*

..... *Axman.*

..... *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

..... United States Deputy Surveyor, in surveying all those parts or portions of the .....

of the ..... meridian, of ..... 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

..... *Chainman.*

..... *Chainman.*

..... *Moundman.*

..... *Moundman.*

..... *Axman.*

..... *Axman.*

..... *Flagman.*

.....

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

SEAL

8-151

, ..., nited States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from ..... United States Surveyor General for ....., bearing date of ..... day of ....., 189 , I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surve General for ....., the Manual of Surveying Instructions, and the laws of United States, surveyed all those parts or portions of .....

.....

.....

.....

..... of the .....

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

.....

United States Deputy Survey

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

SEAL

.....

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah June 23 1900, 1

The foregoing field notes of the survey of the Third Standard Parallel South Range 1½ West of the Salt Lake Base & Meridian Utah

executed by Scott P. Stewart and Andrew J. Stewart Jr under ~~his~~ their contract No. 217, dated November 1st, 1897, having be critically examined, and the necessary corrections and explanations made, the said field notes, and tl surveys they describe, are hereby approved.

Jacob Bar

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 General

6—151

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4—679.

BOOK A-257

FIELD NOTES

OF THE SURVEY OF THE

Subdivisions

of

Township 15 South Range 1½ W.

Of the Salt Lake Base and Meridian.

Utah.

AS SURVEYED BY

H. C. Stewart & Andrew J. Stewart Jr. United States Deputy Surveyors.

Under ~~his~~ their Contract No. 217 dated November 1st 1897.

Survey commenced June 3rd 1898.

Survey completed June 4th 1898.

[illegible]

NAMES AND DUTIES OF ASSISTANTS.

John R. Stewart, Chainman.

Daniel H. Y. McAllister, Chainman.

William W. Richardson Jr., Chainman.

Alma Betts, Chainman

Antone P. Stewart, Moundman.

Peter S. Sorensen, Moundman.

Benjamin F. Stewart, Axman.

Quimby Stewart, Flagman.

For preliminary affidavit see book "Q"

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BOOK A-257

INDEX DIAGRAM.

Township 15 SOUTH, *Range* 1½ WEST.

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Meanders Page

6—151

P

We, ... and .....

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 o

....., *Chainman*

....., *Chainman*

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 moundmen in the establish
of corners, according to the instructions given us, to the best of our skill and ability, in the su

....., *Mou*

....., *Mou*

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
and other duties, according to instructions given us, to the best of our skill and ability, in t

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

SEAL

I, ..., do solemnly swear that I wi
perform the duties of flagman according to instructions given me, to the best of my skill
survey of .....

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

SEAL

Subdivision of T. 15 S., R. 1½ W.

Chains | Survey commenced June 3, 1898, and executed with a W. and L. E. Gurley light mountain transit, No. –, 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; and a Buff and Berger transit, No. 2511, the horizontal limb being provided with two double verniers reading to single minutes of arc.
The instruments were examined, tested on the true meridian at Salt Lake City, found correct, and were approved by the surveyor general for Utah; the former on December 4, 1897, and the latter on April 5, 1898.
We examine the adjustments of the instruments, and correct the level and collimation errors; then, to test the solar apparatus of the Gurley instrument, by comparing its indications resulting from solar observations made during p. m. and a. m. hours, with a true meridian determined by observations on Polaris, we proceed as follows:
At the Standard Corner of secs. 35 and 36, on S. bdy. of T. 15 S., R. 1½ W., latitude 39°28' N., longitude 112°01' W.; we set off 39°28' N., on the lat. arc; 22°26' N., on the decl. arc; and at $3^h 56^m$ p. m., l. m. t., determine with the solar of the Gurley instrument a true meridian and mark a point thereof on a stone firmly

set in ground, 5

June 3, 1898.

June 4, 1898: At 2h 34m a. m., l. m. t., we observe Polaris at eastern elongation, with the Buff and Berger instrument, in accordance with the Manual of Instructions, and mark a point in the line thus determined, on a plug driven in the ground, 5 chs. N. of our station. At 6h 30m a. m., l. m. t., we lay off the azimuth of Polaris 1°36'.8 to the t, on the Buff and Berger instrument, and mark the true meridian thus determined, by cutting a small groove in the stone set June 3, on which the true meridian falls 0.4' ins. east of the mark determined by the solar, of the Gurley instrument. At 6h 34m a. m., l. m. t., we lay off the azimuth of Polaris 1°36'.8 to the west, on the Gurley instrument, and the True Meridian thus determined, by cutting a small groove the stone set June 3, on which the true meridian fall 0.4 ins. east of the mark determined by the solar. At 7h 0m a. m., l. m. t., we set off 39°28' on the lat. arc; 22°30' N., on the decl. arc; and mark a point in the true meridian determined with solar, of the Gurley instrument, a cross on the stone already set 5 chs. N. of our station; this mark falls 0.35 ins. east of the true established by Polaris observation.

Subdivision of T. 15 S., R. 1½ W.-Continued.

Chains	
	The solar apparatus of the Gurley instrument, by p. m., and a. m. observations, defines positions for the true meridian, respectively about 0°21' west, and 0°18' east of the meridian established by Polaris observations, therefore we conclude that the adjustments of the instruments are satisfactory. The magnetic bearing of the true meridian, at 7h 30m a. m., l. m. t., is N. 16° 36' W.; the angle thus determined, reduced by the table, page 100, gives the mean mag. decl. 16° 30' E.
	From the standard cor. of secs. 35 and 36, on S. bdy. T. 15 S., R. 1½ W., heretofore described, We run North, bet. secs. 35 and 36. Over rolling land in Washboard valley; through dense undergrowth; ascend gently.
9.00	County road leading from Jualto Scipio, bears N. 25° E. and S. 25° W.
29.00	Wagon road, bears E. and W.
40.00	Set a quartzite stone, 14x8x6 ins., 9 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.
78.00	Enter cedar timber, bears E. and W.
80.00	Set a quartzite stone, 14x8x8 ins., 9 ins. in the ground, for cor. of secs. 25, 26, 35, and 36, marked with 1 notch on S. and 1 notch on E. edges; from which
	Cu cedar, 3 ins. diam., bears N. 75° E., 110 lks. dist., marked T. 15 S., R. 1½ W. S. 25, B. T.
	Cu cedar, 3 ins. diam., bears S. 20° E., 112 lks dist., marked T. 15 S., R. 1½ W. S. 36, B. T.
	Cu cedar, 4 ins. diam., bears S. 9° W., 45 lks

Chains ., m T.15 ,R.1½W., .35,B.T

a cedar, 5 ins. diam., bears N. 3°W. 125 lks. dist., marked T.15 S., R.1½W. S.26, B.T.

Land, rolling.

Soil, clay loam; 2nd rate.

Timber, scattering cedar.

Undergrowth, sage brush and shadscales.

Good grass for grazing.

Land covered with dense undergrowth, 80.00 chs.

Note: Knowing from previous connections that this line will not intersect E. bdy. of Tp. within the perscribed limits, we run East, on a true line bet. secs. 25 and 36. Over mountainous land, through scattering cedar timber and undergrowth; ascend.

40.00 Set a trachyte stone, 24×8×6 ins., 18 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; and raise a mound of stone, 3 ft. base, 3 ft. high, N. of cor. Pits impracticable.

46.50 Telephone line from Juab to Scipio, bears N. 20° E. and S. 30° W.

46.75 County road leading from Juab to Scipio, bears N. 20° E. and S. 30° W.

52.50 Top of spur, 200 ft. above sec. cor., bears N. and S.; descend.

58.00 Leave scattering cedar timber, bears N. and S.

60.00 Bottom of hollow, 60 ft. below ridge, course N.; ascend.

77.95 Intersect E. bdy. of Tp., 4.45 chs. N. 1°30' W. from the cor. of secs. 25, 30, 31, and 36, heretofore described.

Set a sandstone, 18×9×5 ins., 9 ins. in

Chains	
	the ground, for closing cor. of secs. 25 and 36, marked C. C., on W.; with 5 grooves on N. and 1 groove on S. faces; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	Note: We destroy all marks on the cor. of secs. 25, 30, 31, and 36, which pertain to secs. 25 and 36.
	Land, mountainous.
	Soil, sandy and gravelly loam; 2nd rate.
	Timber, scattering cedar.
	Undergrowth sage-brush.
	Good grass for grazing.
	Mountainous land, 77.95 chs.
	Note: Knowing from previous connections that the line bet. secs. 26 and 35 will not intersect the E. bdy. of T. 15 S., R. 2 W., within the prescribed limits, We run West, on a true line bet. secs. 26 and 35.
	Over rolling land, through dense undergrowth; descend gently.
11.00	Foot of descent, bears N. and S.; thence across Washboard valley.
40.00	Set a quartzite stone, 16 X 12 X 5 ins., 11 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.
58.54	Intersect E. bdy. of T. 15 S., R. 2 W., 34.55 chs. S. of cor. of secs. 25 and 36, heretofore described.
	Set a quartzite stone, 15 X 10 X 5 ins., 10 ins. in the ground, for closing cor. of secs. 26 and 35, marked C. C.

Chains on E.; wi 5 grooves on . an 1 groove on S. faces; dig pits, 24X18X12 ins., crosswise on each line, N. and S., 3 and E. of stone, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, E. of cor.
Note: We destroy all marks on the cor. of secs. 36 and 25, which pertain to secs. 26 and 35.
Land, rolling and level.
Soil, clay loam; 2nd. rate.
No timber.
Undergrowth, sage-brush and shadscales.
Good grass for grazing.
Land covered with dense undergrowth, 58.54 chs.

X

North, bet. secs. 25 and 26.
Over mountainous land, through dense undergrowth, and heavy cedar timber; descend.

9.50 Bottom of hollow, 75 ft. below cor., course N. 60° W.; ascend.

23.00 Top of spur, 40 ft. above hollow, bears E. and W.; descend, leave heavy timber.

38.75 Bottom of hollow, 100 ft. below ridge, course N. 45° W.; ascend.

40.00 Set a trachyte stone, 18X14X7 ins., 12 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.

45.50 Top of spur, 100 ft. above hollow, bears E. and W.; descend.

53.00 Wire fence, bears E. and W.

70.50 Foot of descent, bears E. and W.; enter broad hollow.

80.00 Set a trachyte stone, 16X10X5 ins., 11

Subdivision of T. 15 S., R. 1½ W.—Continued.

Chains	
	ins. in the ground, for cor. of secs. 23, 24, 25, and 26, marked with 2 notches on S. and 1 notch on E. edges; 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, mountainous.
	Soil, sandy, clay, and gravelly loam; 2nd rate.
	Timber, cedar.
	Undergrowth, sage-brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 20.00 ch.
	For reasons already explained, We run
	East, on a true line bet. secs. 24 and 25.
	Over mountainous land, through dense undergrowth,
5.00	Leave cañon, bears N.E. and S.W.; begin ascent of mountain.
13.00	Top of spur, 350 ft. above cañon, bears N. and S.; descend.
40.00	Set a trachyte stone, 18 X 12 X 6 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.
75.50	Intersect E. bdy. of Tp., 4.40 chs. N. 1°30' W. from the cor. of secs. 13, 24, 25, and 30, heretofore described
	Set a quartzite stone, 20 X 12 X 5 ins., 15 ins. in the ground, for closing cor. of secs. 24 and 25, marked C.C. on W.; with 4 grooves on N. and 2 grooves on S. faces; dig pits, 24 X 18 X 12 ins., crosswise on each line, N. and S., 3 ft., and W. of

Chains s one, 7- . ; an raise a
mound of earth, 4 ft. base, 2 ft.
high, W. of cor.
Note: We destroy all marks on the
cor. of secs. 19, 24, 25, and 30, which
tains to secs. 24 and 25.
and, mountainous.
oil, clay loam, and rocky; 2nd
and 4th rate.
No timber.
Undergrowth, sage-brush.
Good grass for grazing.
Mountainous land, or land covered
with dense undergrowth, 75.50 chs.
4, 1898: At this cor., we set off 22°31'
N., on the decl. arc.; and at 0h 2m p.m.,
.m. t., observe the sun on the meri-
, the resulting lat. is 39°30' N.;
ch is about 0'.46 greater than the
proper lat.

For reasons already explained,
run
West, on a true line bet. secs. 23 and 26.
Over rolling land, through dense
dergrowth; across cañon.
14.04 The Oregon Short Line rail way track,
bears N. 60° E. and S. 60° W.
14.54 Telegraph line, bears N. 60° E. and S. 60° W.
20.00 Chicken Creek, 6 lks. wide, 6 ins. deep,
course S. 70° W.
22.50 Wagon road in cañon, leading from
Juab to Lemington, bears N. 10° E. and S. 10° W.
29.00 Leave cañon; begin ascent, bears N. 10° E.
and S. 10° W.
39.50 Top of ridge, 200 ft. above cañon, bears
N. 20° E. and S. 20° W.; descend.
40.00 Set a quartzite stone, 18 x 12 x 8 ins., 12
in the ground, for ¼ sec. cor.,

Subdivision of T. 15 S., R. 1½ W.- Continued.

Chains	
	marked # on N. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
57.87	Intersect E. b-dy. of T. 15 S., R. 2 W., 34.93 chs. S. 0°35' W. from the cor. of secs. 24 and 25, heretofore described.
	Set a quartzite stone, 14X12X6 ins., 9 ins. in the ground, for closing cor. of secs. 23 and 26, marked C. C. on E.; with 4 grooves on N. and 2 grooves on S. faces; and raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. Pits impracticable.
	Note: We destroy all marks on the cor. of secs. 24 and 25, which pertain to secs. 23 and 26.
	Land, level and mountainous.
	Soil, clay and gravelly loam; 2nd rate.
	No timber.
	Undergrowth, sage-brush.
	Good grass for grazing
	Mountainous land, or land covered with dense undergrowth, 57.87 chs.

	North, bet. secs. 23 and 24.
	Over nearly level land, through dense undergrowth.
1.25	Chicken Creek, 8 lks. wide, 3 ins. deep; winding creek, course S. 25° W.
8.50	Oregon Shortline railway track, bears N. 60° E. and S. 60° W.
9.10	Telegraph line, bears N. 60° E. and S. 60° W.
	enter cultivated land, bears N. 60° E. and S. 60° W.
17.00	Leave cultivated land, bears N. 60° E. and S. 60° W.
17.30	County road, bears N. 60° E. and S. 60° W.
30.00	Leave cañon, bears E. and W.; begin ascent over rolling land.
40.00	Set a quartzite stone, 18 X 12 X 5 ins., 12 ins. in the ground, for # sec. cor.,

m ‡ on . ; an raise a
of stone, 2 ft. base, 1½ high,
W. of cor. Pits impracticable.
48.28 Wire fence, bears E. and W.
80.00 Set a quartzite stone, 18×12×6 ins.,
12 ins. in the ground, for cor. of secs.
13, 14, 23, and 24, marked with 3 notches
S. and 1 notch on E. edges; from
which
A cedar, 7 ins. diam., bears S. 55° E.,
152 lks. dist., marked T. 15 S., R. 1½ W., S. 24, B. T.
No other trees within limits; raise
a mound of stone, 2 ft. base, 1½ ft. high,
W. of cor. Pits impracticable.
Land, level and rolling.
Soil, clay loam; 2nd rate.
No timber.
Undergrowth, sage brush.
Good grass for grazing.
Land covered with dense under-
growth, 72.10 chs. Note.—The cultivated
land crossed on this line is claimed by George
McCune. June 4, 1898.

June 6, 1898: At 7h 5m a. m., l. m. t., we
set off 39°31' N., on the lat. arc, 22°43' N.,
on the decl. arc; and determine a true
meridian with the solar, at the
cor. of secs. 13, 14, 23, and 24.
Thence we run, for reasons already
ained.
East, on a true line bet. secs. 13 and 24.
Over mountainous land, through
dense undergrowth, ascend.
7.00 Top of low ridge, 30 ft. above cor.,
ars N. and S.; descend.
20.00 Bottom of hollow, 40 ft. below ridge,
course S.; ascend.
22.00 Enter scattering cedar timber,
bears N. and S.; leave dense under-

Subdivision of T. 15 S., R. 1½ W.—Continued.

Chains	growth.
37.50	Top of ridge, 150 ft. above hollow, bears N. and S.; descend.
40.00	Set a quartzite stone, 18x13x9 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which A cedar, 9 ins. diam., bears N. 45° E. 30 lks. dist., marked ¼ S. 13, B. T. A cedar 8 ins. diam., bears S. 45° E., 10 lks. dist., marked ¼ S. 24, B. T.
42.00	Bottom of swale, 50 ft. below ridge, course S.; ascend.
51.50	Top of high ridge bet. Jual and Sage valleys, 500 ft. above valley, bears N. 15° E. and S. 15° W.; descend.
74.20	Intersect E. bdy. of Tp., 4.06 chs. N. of closing cor. of secs. 13, and 18, T. 15 S. R. 1 W., heretofore described. Set a flint stone, 18x8x8 ins., 12 ins. in the ground, for closing cor. of secs. 13 and 24, marked C. C. on W.; with 3 grooves on N. and 3 grooves on S. faces; from which A cedar, 8 ins. diam., bears S. 88° 30' W. 77 lks. dist., marked ., T. 15 S., R. 1½ W. S. 24, B. T. No other trees within limits; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. Note: We destroy all marks on the old cor. of secs. 13, and 24, which pertain to secs. 13 and 24 this township. Land, mountainous Soil, gravelly loam and rocky; 2nd and 4th rate. Timber, scattering cedar. Undergrowth, sage brush. Good grass for grazing. Mountainous land, or land covered with dense under-growth, 74.20 chs.

For reasons already explained,
we run
West, on a true line bet. secs. 14 and 23.
Over rolling ground, through
dense undergrowth, descend.
14.65 Wood road, bears N. 5° W. and S. 5° E.; in
bottom of hollow, 20 ft. below cor.,
course S. 5° E.; ascend.
39.65 Top of ridge, 200 ft. above hollow,
bears N. E. and S. W.; descend.
40.00 Set a sand stone, 18x8x5 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.
57.40 Intersect E. bdy. of T. 15 S., R. 2 W.,
34.75 chs. S. 0°20' W. from cor. of secs.
13 and 24, heretofore described.
Set a quartzite stone, 18x10x5 ins.,
12 ins. in the ground, for closing
cor. of secs. 14 and 23, marked C.C.
on E., with 3 grooves on N., and S.
faces; dig pits, 24x18x12 ins., cross-
wise on each line, N. and S., 3 ft.
and E. of stone, 7 ft. dist.; and
raise a mound of earth, 4 ft.
base, 2 ft. high, E. of cor.
Note: We destroy all marks on
the cor. of secs. 13 and 24, which
pertain to secs. 14 and 23.
Land, mountainous and rolling.
Soil, sandy and gravelly loam;
2nd rate.
No timber.
Undergrowth, sage brush and
shadscales.
Good grass for grazing.
Mountainous land, or land covered
with dense undergrowth, 57.40 chs.

Subdivision of T. 15 S., R. 1½ W. - Continued.

Chains	
	North, bet. secs. 13 and 14.
	Over rolling foot hills, through dense undergrowth, and scattering cedar timber.
40.00	Set a sand stone, 16x12x8 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; from which
	Cu cedar, 7 ins. diam., bears S. 64½° E., 60 lks. dist., marked ¼ S. 13, V3. T.
	No other trees within limits; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
78.75	Wash, 20 lks. wide 2 ft. deep, course W.
80.00	Set a trachyte stone, 18x9x6 ins., 12 ins. in the ground, for cor. of secs. 11, 12, 13, and 14, marked with 4 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.
	Land, rolling and broken.
	Soil, gravelly and rocky; 2nd and 4th rate.
	Timber, scattering cedar.
	Undergrowth, sage brush and shadscales.
	Good grass for grazing.
	Land covered with dense undergrowth, 80.00 chs.
	June 6, 1898: At this cor., we set off 22°44' N., on the decl. arc; and, at 4h 3m p. m., l. m. t., observe the sun on the meridian, the resulting lat. is 39°32' N. Which is about 0'.93 greater than the proper lat.
	For reasons already explained We run
	East, on a true line bet. secs. 12 and 13.

Chains	
	Over mountainous land, scattering cedar timber and dense undergrowth; ascend mountain.
37.00	Top of divide ridge bet. Jnab and Sage valleys; 500 ft. above Sage valley, bears N. 10° W. and S. 10° E.; descend.
40.00	Set a trachyte stone, 18 x 10 x 6 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, W. of cor. Pits impracticable.
51.50	Bottom of hollow, 200 ft. below ridge, course S. 10° W.; ascend.
70.00	Top of ridge, 200 ft. above hollow, bears N. 9° E. and S. 9° W.; descend.
74.09	Intersect E. bdy. of Tp., 4.26 chs. N. of the closing cor. of secs. 7 and 18, T. 15 S., R. 1 W., heretofore described.
	Set a trachyte stone, 19 x 12 x 7 ins., 12 ins. in the ground, for closing cor. of secs. 12 and 13, marked C. C. on W.; with 2 grooves on N. and 4 grooves on S. faces; from which
	A cedar, 4 ins. diam., bears S. 88° W., 12 lks. dist., marked T. 15 S., R. 1 W. S. 13, 12
	No other trees within limits; raise a mound of stone, 2 ft. base, 1½ high, W. of cor. Pits impracticable.
	Note: We destroy all marks on the cor. of secs. 1, 12, and 13, which pertain to secs. 12 and 13 this Tp.
	Land, mountainous.
	Soil, gravelly and rocky; 3rd and 4th rate.
	Timber, scattering cedar.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 74.09 chs.

For reasons already explained, We run

Subdivision of T. 15 S., R. 1½ W.—Continued.

Chains	
	West, on a true line bet. secs. 11 and 14. Over rolling land, through dense undergrowth; descend.
1.00	Foot of mountain, bears N. and S.; thence across sage valley.
21.40	Wood road, bears N. 30° E. and S. 30° W.
31.40	Wood road, bears N. 20° E. and S. 20° W.
39.35	Wood road, bears N. W. and S. E.
40.00	Set a gray sandstone, 30 x 10 x 8 ins., 22 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.
56.68	Intersect E. bdy. of T. 15 S., R. 2 W., 34.54 chs. S. 0° 45' W. from the cor. of secs. 12 and 13, heretofore described. Set a hard sandstone, 19 x 12 x 5 ins., 13 ins. in the ground, for closing cor. of secs. 11 and 14, marked C.C. on E.; with 2 grooves on N. and 4 grooves on S. faces; dig pits, 24 x 18 x 12 ins., crosswise on each line, N. and S., 3 ft., and E. of stone, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, E. of cor. Note: We destroy all marks on the cor. of secs. 12 and 13, which pertain to secs. 11 and 14. Land, rolling and level. Soil, clay loam; 2nd rate. No timber. Undergrowth, sage brush and shadscales. Good grass for grazing. Land covered with dense undergrowth, 56.68 chs.

North, bet. secs. 11 and 12.

Chains Over rolling foot hills, through growth; descend gently.

8.70 Wash, 20 lks. wide, 3 ft. deep, course S. W.

40.00 Set a trachyte stone, 18 x 10 x 7 ins., 12 ins in the ground, for ¼ secs. cor., marked ¼ on W. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.

42.00 Wash, 20 lks. wide, 4 ft. deep, course S. W.

58.30 Wash, 30 lks. wide, 3 ft. deep, course W.

65.00 Foot of mountain, bears N. 40° E. and S. 5° W.; thence across Sage valley.

80.00 Set a sandstone, 18 x 10 x 6 ins., 12 ins. in the ground, for cor. of secs. 1, 2, 11, and 12, marked with 5 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.

Land, rolling and level.

Soil, gravelly and clay loam; 2nd rate.

No Timber.

Undergrowth, sage brush and shadscales.

Good grass for grazing.

Land covered with dense undergrowth, 80.00 chs.

June 6, 1898.

June 7, 1898; At 7h 32m a. m., l. m. t., we set of 39° 33' N., on the lat. arc; 22° 49' N., on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 1, 2, 11, and 12,

Thence we run, for reasons already explained

East, on a true line bet. secs. 1 and 12.

Over level land, through dense

Subdivision of T. 15 S., R. 1½ W.—Continued.

Chains	
	undergrowth,
16.00	Foot of mountain, bears N. 10° E. and S. 40° W.; begin ascent; enter scattering cedar timber, bears N. 10° E. and S. 40° W.
40.00	Set a porphory stone, 18×6×6 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which A cedar, 7 ins. diam., bears S. 40° W., 50 lks. dist., marked ¼ S. 12, B. T. No other trees within limits; raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
48.25	Foot of perpendicular cliff, of limestone, 75 ft. high, bears N. and S.
54.00	Top of divide ridge, bet. Juab and Sage valleys, 600 ft. above Sage valley, bears N. 20° W. and S. 20° E.; descend
74.35	Intersect E. bdy. of Tp., 2.01 chs. N. of the closing cor. of secs. 6 and 7, heretofore described. Tp. 15 S. R. 1 W. cor. 3.50 chs. North of the first established corner to Secs. 1, 6, 7 & 12 Set a trachyte stone, 16×10×8 ins., 11 ins. in the ground, for closing cor. of secs. 1 and 12, marked c.c. on W.; with 1 groove on N. and 5 grooves on S. faces; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. Note: We destroy all marks on the cor. of secs. 1, 6, 7, and 12, which pertain to secs. 1 and 12. Land, mountainous. Soil, clay and gravelly loam, and rocky; 2nd and 4th rate. Timber; cedar. Undergrowth, sage brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 74.35 chs.

Chains	
	For reasons already explained, we run
	West, on a true line bet. secs. 2 and 11. Over level land, through dense undergrowth.
31.70	Wood road, bears N. 20° E. and S. 20° W.
40.00	Set a blue limestone, 18 x 10 x 6 ins., 12 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.
55.65	Intersect E. bdy. of T. 15 S., R. 2 W. 35.16 chs. S. 0° 39' W. from the cor. of secs. 1 and 12, heretofore described.
	Set a hard sandstone, 24 x 12 x 5 ins., 18 ins. in the ground, for closing cor. of secs. 2 and 11, marked C.C. on E. with 1 groove on N. and 5 grooves on S. faces; dig pits, 18 x 18 x 12 ins., crosswise on each line, N. and S., 3 ft., and E. of stone, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high E. of cor.
	Note: We destroy all marks on the cor. of secs. 1 and 12, which pertain to secs. 2 and 11.
	Land, level.
	Soil, clay loam; 2nd rate.
	No timber.
	Undergrowth, sage brush and shadscales.
	Good grass for grazing.
	Land covered with dense undergrowth, 55.65 chs.

Note: Knowing from former connections, that the line bet. secs.

Chains	
	1 and 2, will require a closing cor. on N. bdy. of Tp. We run North, on a true line bet. secs. 1 and 2. Over level land, through dense undergrowth.
40.00	Set a porphyry stone, 16 x 12 x 6 ins., 11 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.
56.00	Wash, 15 lks. wide, 3 ft. deep, course S.W.
87.60	Intersect N. bdy. of Tp., 54.74 chs. E. of closing cor. of T. 14 S., R. 1 W. and T. 15 S., R. 1½ W., heretofore described.
	Set a hard sandstone, 18 x 10 x 6 ins., 12 ins. in the ground, for closing cor. of secs. 1 and 2, marked C.C. on S.; with 1 groove on E. and 5 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.
	Land, level.
	Soil, clay loam; 2nd rate.
	No timber.
	Undergrowth, sage brush and shadscales.
	Good grass for grazing.
	Land covered with dense under-growth, 87.60 chs.
	June 7, 1898: At this cor., we set off 22°49' N., on the decl. arc, and at 0h 6m p. m., l. m. t., observe the sun on the meridian, the resulting lat. is 39°33' N.
	June 7, 1898.

General Description.

This fractional township contains several varieties of land, from

valleys to mountains, and the soil ranges from rocky dges to rich sandy and clay oam. The soil of the valleys and ollows is generally rich, sandy or clay loam, capable of producing ood crops without irrigation. The soil of the remaining portion of the township, can nearly all be classed as 2nd or 3rd rate, and is covered with an abundant growth of rich and nutritious grasses. There is cedar timber on most of the mountainous part of the township, and the remainder is covered with a dense growth of sage brush and shadscales. There are no indications of mineral in the township.

Chicken Creek, which runs through secs. 23, 24, and 26, is about 10 lks. wide, 1 ft. deep, and is partly used to irrigate cultivated land adjoining it in this township; but the main part is used in T. 15 S., R. 2 W.

There is about 10 acres of land now under cultivation in sec. 23, about 10 acres in sec. 24, both claimed by George McCune.

Scott J. Stewart.
Andrew J. Stewart Jr.
U. S. Deputy Surveyors

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by .....

..... 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 .....

.....

showing the respective capacities in which they acted:

..... *Chainman.*

..... *Chainman.*

..... *Moundman.*

..... *Moundman.*

..... *Axman.*

..... *Axman.*

..... *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

..... United States Deputy Surveyor, in surveying all those parts or portions of the

..... of the

..... meridian, ... of ....., 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

..... *Chainman.*

..... *Chainman.*

..... *Moundman.*

..... *Moundman.*

..... *Axman.*

..... *Axman.*

..... *Flagman.*

.....

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

day of ....., 189

SEAL

A-III

I, _____ solemnly swear that, in pursuance of a contract received from _____, bearing date of the United States Surveyor General for _____ day of _____, 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 Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____ of the _____ meridian, in the _____ of _____, 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 _____ 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.

_____
United States Deputy Surveyor.

Subscribed by said _____, and sworn to before me this _____ day of _____, 189

_____

SEAL

_____

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah June 23, 1900, ~~189~~

The foregoing field notes of the survey of the subdivisions of Township 15 South Range 1 1/2 West of the Salt Lake Base & Meridian Utah

executed by Scott P. Stewart & Andrew J. Stewart Jr under ~~his~~ their contract No. 217, dated November 1st, 1897, having critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Jacob B. Bl
United States Surveyor Gen

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 offi

_____
United States Surveyor Ge

6--151

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4—679.

BOOK A-257

R.F.B.

FIELD NOTES

OF THE SURVEY OF THE

Salt Lake Meridian

in

ownship 17 South

Between

Ranges 1 East and 1 West.

Of the Salt Lake Base and *Meridian,*

In the State of Utah

AS SURVEYED BY

H.R. Stewart and Andrew J. Stewart Jr., *United States Deputy Surveyors*

der their Contract No. 217, *dated* November 1st, *1897.*

rvey commenced June 8th, *1898.*

rvey completed June 9th, *1898.*

6—151

Meridian [illegible] — 5-00-001

John R. Stewart, Chainman.

Daniel H. Y. McAllister, Chainman.

Wm W. Richardson Jr. Chainman.

Alma Betts, Chainman.

Antone P. Stewart, Mounduman.

Peter S. Sorensen, Mounduman.

Benjamin F. Stewart, Axman.

Quinly Stewart, Flagman.

6—151

Volume

#

R0257

A-257

E. Bdry -
S.L.M. -
K. -

363

high
M. Chelde -
1-00-00 ✓
1-00-00 ✓
1-00-00 ✓
1-00-00 ✓
1-00-00 ✓

5-00-00 ✓

Volume
#
R0257

E, [illegible]

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level t chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; tl 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 the Salt Lake Meridian T.17 S. between Rs. 1 E and 1 W. 3rd the Salt Lake Meridian T.16 S., Rs 1 E and

John R. Stewart, Chainme

Daniel H. Y. McAllister, Chainm

Subscribed and sworn to before me this 22nd day of April, 1898

Willham Willshire
Alma Betts
Shadrach M. Richardson
Justice of the Peace
Benjamin Utah

We, Antone P. Stewart and Peter S. Sorensen,

do solemnly swear that we will well and truly perform the duties of moundmen in the establishm of corners, according to the instructions given us, to the best of our skill and ability, in the survey the Salt Lake Meridian T.17 S. between Rs. 1 E and 1 W. 3rd the Salt Lake Meridian T.16 S., Rs. 1

Antone P. Stewart, Moundm

Peter S. Sorensen Moundm

Subscribed and sworn to before me this 22nd day of April, 1898

Shadrach M. Richards
Justice of the Peace
Benjamin Utah

We, Benjamin F. Stewart and

do solemnly swear that ~~we~~ will well and truly perform the duties of axmen in the establishment of cor and other duties, according to instructions given ~~us~~ me to the best of ~~our~~ my skill and ability, in the survey the Salt Lake Meridian, T. 16 S. Between Rs. 1 E. and 1 W. 3rd the Salt Lake Meridian T. 16 S. Rs. 1 E. and

Benjamin F. Stewart Axm

, Axm

Subscribed and sworn to before me this 22nd day of April, 1898

Shadrach M. Richards
Justice of the Peace
Benjamin Utah Co

I, Quimby Stewart, do solemnly swear that I will well and t perform the duties of flagman according to instructions given me, to the best of my skill and ability, in survey of the Salt Lake Meridian T. 17 S. between Rs. 1 E. and 1 W. 3rd the Salt Lake Meridian T. 16 S. Rs. 1 E. a

Quimby Stewart, Flagm

Subscribed and sworn to before me this 22nd day of April, 1898.

Shadrach M. Richards
Justice of the Peace
Benjamin Utah

6—151

East boundary of T. 17 S., R. 1 W., of Salt Lake Meridian.

Survey commenced June 8, 1898, and executed with a W. and L. E. Gurley light mountain transit, No. —, with solar attachment, the horizontal limb having 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; and a Buff and Berger transit, No 2511, the horizontal limb is provided with two double verniers reading to single minutes of arc.

The instruments were examined, tested on the true meridian at Salt Lake City, found correct, and were approved by the surveyor general for Utah, the former December 4, 1897; and the latter April 5, 1898.

We examine the adjustments of the transits, and correct the level and collimation errors; then to test the solar apparatus, of the Gurley instrument 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, we proceed as follows:

At the cor. of secs. 25, 30, 31, and 36, latitude 39°18′ N., longitude 111°53′47″ W. we set off 39°18′ N. on the lat. arc; 22°56′ N. on the decl. arc; and at $4^h\ 2^m$ p. m., l. m. t., determine a true meridian with the solar, of the Gurley instrument, and mark a point thereof on a stone firmly set in the ground, 5 chs. N. of the cor.

June 8, 1898.

June 9, 1898; At $2^h 15^m$ a.m., l.m.t., we observe Polaris at ~~eastern elongation~~, with the Buff and Berger instrument, in accordance with the Manual of Instructions, and mark a point in the line thus determined on a plug driven in the ground, 5 chs. N. of our station.
At $6^h 20^m$ a.m., l.m.t., we lay off the azimuth of Polaris 1°36' to the west, on the Buff and Berger instrument, and mark the True Meridian thus determined, by cutting a small groove in the stone set June 8, on which the true meridian falls 0.4 ins. east of the mark determined by the solar of the Gurley instrument.
At $6^h 30^m$ a.m., l.m.t., we lay off the azimuth of Polaris 1°36' to the west, on the Gurley instrument, and mark the True Meridian thus determined by cutting a small groove on the stone set June 8, on which the true meridian falls 0.4 ins. east of the mark determined by the solar.
At $6^h 57^m$ a.m., l.m.t., we set off 39°18' N. on the lat. arc; 23°0' N. on the decl. arc; and mark a point in the true meridian determined with the solar, of the Gurley instrument, by a cross on the stone already set 5 chs. N. of our station; this mark falls 0.27 ins. east of the true meridian established by Polaris observation.
The solar apparatus, of the Gurley instrument, by p.m. and a.m. observations, defines positions for true meridians, respectively about 0".21 west and 0".14 east of the meridian established by polaris observations,

East boundary of T. 17 S., R. 1 W., or Salt Lake Meridian.

Chains therefore we conclude that the adjustments of the instruments are satisfactory.
The magnetic bearing of the true meridian, at 8h 1m a. m., is N. 16° 37′ W.; the angle thus determined, reduced by the table, page 100, gives the mean mag. decl. 16° 31′ E.

We begin at the cor. of secs. 25, 30, 31, and 36, which is a greatly decayed post in old mound of earth and pits, marked and witnessed as described by the surveyor general.
Note.- We accept this as the original corner after much judical investigation by inquiry and retracement.
We restablish the cor. as follows:
Set a sandstone, 18 x 12 x 7 ins., 13 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; from which
A cedar, 14 ins., diam., bears N. 10° E., 90 lks. dist., marked T. 17 S., R. 1 W. S 36.
B. T. No other trees in limits; and, raise a mound of stone, 2 ft. base, 2 ft. high, W. of cor. Pits impracticable.
Thence we run
North, bet. secs 25 and 30.
Over mountainous land, ascend through scattering sage brush and cedar timber.
22.50 Top of ridge, 100 ft. above sec. cor., bears N. E. and S. W.; Enter heavy cedar timber.; and dense undergrowth; descend.
25.20 Bottom of hollow, 100 ft. below ridge, course S. W.; ascend.
Difference between measurements of 40.00 chs., by two sets of chainmen, is 20 lks.; position of middle point
By 1st set, 39.90 chs.

Chain

By 2nd set, 40.10 chs.; the mean of which is

40.00 Set a quartzite stone, 14×12×7 ins., 9 ins. in the ground, for ¼ sec. cor., m ¼ on W. face; from which

A cedar, 8 ins. diam., bears N. 15° E., 18 lks. dist.; marked ¼ S. 30, B.T.

A cedar, 8 ins diam., bears S. 5° W., 29 lks. dist., marked ¼ S. 25, B.T.; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

60.00 Top of ridge, 50 ft. above ¼ sec. cor., bears N. 10° W. and S. 10° E.; descend.

Difference bet measurements of 80.00 chs., by two sets of chainmen, is 22 lks; position of middle point.

By 1st set, 79.89 chs.

By 2nd set, 80.11 chs.; the mean of which is

80.00 Set a limestone, 20×12×4 ins., 15 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; from which

A cedar, 10 ins. diam., bears N. 5° E., 6 lks. dist., marked T. 17 S., R. 1 E., S. 19, B.T.

A cedar, 14 ins. diam., bears S. 84° E., 12 lks. dist., marked T. 17 S., R. 1 E., S. 30, B.T.

A cedar, 14 ins. diam., bears S. 60° W., 9 lks. dist., marked T. 17 S., R. 1 W., S. 25, B.T.

A cedar, 4 ins. diam., bears N. 7° W., 12 lks. dist., marked T. 17 S., R. 1 W., S. 24, B.T.; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Sand, mountainous.

Soil, sandy loam and gravel; 1st and 3rd. rate.

Good grass for grazing.

Timber, cedar; undergrowth, sage.

Mountainous. or heavily timbered l or land covered with dense undergrowth, 8

East Boundary of T. 17 S., R. 1 W. of Salt Lake Meridian.

chains	
	North, bet. secs. 19 and 24.
	Over mountainous land, through heavy cedar timber, descend.
13.00	Bottom of hollow, 75 ft. below sec. cor., course S. 20° E., ascend.
32.50	Top of high ridge, 300 ft. above hollow, bears E. and W.; descend.
	Difference bet. measurements of 40.00 chs., by two sets of chainmen, is 18 lks. position of middle point.
	By 1st. set 40.09 chs.
	By 2nd. set, 39.91 chs.; the mean of which is.
40.00	Set a sandstone, 18 x 14 x 10 ins., 13 ins. in the ground, for 1/4 sec. cor; marked 1/4 on W. face; from which.
	A cedar, 8 ins. diam., bears S. 22° 30' E., 103 lks. dist., marked 1/4 S. 19, B.T.
	An oak, 10 ins. diam., bears S. 29° 30' W. 40 lks. dist, marked 1/4 S. 24 B.T.
50.27	Commence steep descent over cliffs and ledges, bears E. and W.
75.50	Creek, 16 lks. wide, 3 ins. deep, rapid current, in bottom of Hell's Kitchen Canon, 400 ft. below 1/4 sec. cor., course W.; ascend abruptly, over perciptious cliffs and ledges.
	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. x
80.00	The point for sec. cor., about 200 ft. above hollow, falls on stationary ledge of hard sandstone, 30 x 30 x 48 ins. above ground, on which we
	Cut a (X) at the exact cor. point, for cor. of secs. 13, 18, 19, and 24, marked with 3 notches on N. and 3 notches on S. edges, from which

Chains	
	A pinion pine, 16 ins. diam., bears N. 64° E., 40 lks. dist., marked T. 17 S., R. 1 E., S. 18, B. T.
	A cedar 12 ins. diam., bears S. 40° E., 50 lks. dist., marked T. 17 S., R. 1 E., S. 19, B. T.
	A pinion pine, 3 ft. diam. bears S. 31° W. 29 lks. dist., marked T. 17 S., R. 1 W., S. 24, B. T.
	A cedar 12 ins. diam., bears N. 30° W. 87 lks. dist., marked T. 17 S. R. 1 W., S. 13 B. T.
	Land, mountainous
	Soil, gravelly loam and rocky; 2nd. and 4th. rate.
	Good grass for grazing.
	Timber; mostly cedar, some pinion pine.
	Mountainous or heavily timbered land, 80.00 chains.
	North, bet. secs. 13 and 18.
	Over mountainous land, through heavy cedar and pinion pine timber; ascend.
20.00	Top of ridge, 200 ft. above sec. cor., bears E. and W.; descend.
	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 2nd. set, 40.08 chs.; the mean of which is.
40.00	Set a sandstone, 14 x 8 x 5 ins., 9 ins. in the ground, for 1/4 sec. cor.; marked 1/4 on W. face; from which
	A cedar, 12 ins. diam; bears N. 65° E., 50 lks. dist., marked 1/4 S. 18, B. T.
	A cedar, 10 ins. diam., bears W., 3 lks. dist., marked 1/4 S. 13, B. T.
43.50	Bottom of hollow, 80 ft. below 1/4 sec. cor., course S. 30° W.; ascend.
68.50	Top of ridge, 300 ft. above hollow, bears N. 70° E. and S. 70° W.; descend.

East boundary of T. 17 S. R. 1 W., or Salt Lake Meridian.

Chains	
	Difference between measurements of 80.00 chs., by two sets of chainmen is 20 lks.; position of middle point.
	By 1st. set, 79.90 chs.
	By 2nd. set, 80.10 chs.; the mean of which is.
80.00	Set a sandstone, 18 x 8 x 6 ins., 12 ins. in the ground, for cor. of secs. 7, 12, 13 and 18, marked with 2 notches on N. and 4 notches on S. edges; from which.
	A pinion pine, 12 ins. diam. bears S 33° E., 40 lks. dist., marked T. 17 S., R. 1 E., S. 18, B. T.
	No other trees within limits; and raise a mound of stone, 2 ft. base, 2 ft. high, W. of cor. Pits impracticable.
	Land, mountainous very steep.
	Soil, sandy and gravelly loam; 2nd and 3rd. rate.
	Good grass for grazing.
	Timber, cedar and pinion pine.
	Mountainous or heavily timbered land, 80.00 chs.
	June 9, 1898: At the noon hour the sky is overcast and solar observations are impossible.
	North, bet. secs. 7 and 12.
	Over mountainous land; descend through scattering cedar and pinion pine timber.
1.25	Bottom of hollow, 75 ft. below sec. cor., course W.; ascend.
32.50	Top of ridge, 150 ft. above hollow, bears E. and W.; descend.
	Difference between measurements of 40 chs., by two sets of chainmen, is 19 lks.; position of middle point
	By 1st. set, 39.91 chs.

Chains	
	By 2nd. set, 40.09 chs.; the mean of which is
40.00	Set a limestone, 18 x 10 x 8 ins., 12 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
41.75	Old wood road, bears E. and W.
42.00	Creek, 12 lks. wide, 4 ins. deep, rapid current, rocky bottom, in bottom of Timber Cañon, 75 ft. below 1/4 sec. cor. course W.; ascend abruptly.
	Difference between measurements of 80.00 chs., by two sets of chainmen, is 24 lks.; position of middle point.
	By 1st. set, 80.12 chs.
	By 2nd. set 79.88 chs.; the mean of which is
80.00	Set a hard sandstone, 25 x 4 x 4 ins., 18 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; and raise a mound of stone, 2 ft. base, 2 ft. high, W. of cor. Pits impracticable.
	Land, mountainous, very rough.
	Soil, clay loam and gravelly; 2nd. and 3 rate.
	Good grass for grazing.
	Timber, scattering cedar and pinion pine.
	Mountainous land, 80.00 chs.
	North bet. secs. 1 and 6.
	Over mountainous land; ascend through scattering timber.
5.50	Top of spur, 60 ft. above sec. cor. bears E. and W. enter heavy timber, bears with ridge; descend abruptly.
13.50	Bottom of deep hollow, 400 ft. below ridge course W.; ascend.

East boundary of T. 17 S., R. 1 W., on Salt Lake Meridian...

Chains	
20.14	Foot of perpendicular cliff of limestone, 80 ft. high, bears E. and W.
30.00	Top of ridge, 400 ft. above hollow, bears E. and W.; descend abruptly.
35.50	Bottom of deep hollow, 200 ft. below ridge, course W.; ascend abruptly. Difference between measurements of 40.00 chs., by two sets of chainmen is 20 lks.; position of middle point. By 1st. set, 39.90 chs. By 2nd. set, 40.10 chs.; the mean of which is.
40.00	Top of ridge, 250 ft. above hollow, bears E. and W. Set a gray sandstone, 18 X 11 X 6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; from which A cedar, 24 ins. diam., bears S. 45° E., 59 lks. dist., marked 1/4 S. 6, B.T. A pinion pine, 10 ins. diam., bears S. 82° W., 40 lks. dist., marked 1/4 S. 1, B.T.; descend.
48.50	Bottom of hollow, 100 ft. below 1/4 sec. cor, course W.; ascend.
79.00	Top of ridge, 200 ft. above hollow, bears E. and W.; descend. Difference between measurements of 80.00 chs., by two sets of chainmen is 22 lks.; position of middle point. By 1st. set, 79.89 chs. By 2nd. set, 80.11 chs.; the mean of which is.
80.00	Set temp. cor. of Tps. 16 and 17 S., Rs. 18 and 1 W. for description of permanent cor. see N. by Book "E" Land, mountainous, very rough. Soil, clay loam, gravelly and rocky 2nd. and 3rd. rate. Good grass for grazing. Timber, cedar and pinion pine. Mountainous land, or heavily

East boundary of T. 17 S., R. 1 W., or Salt Lake Merid

chains	timbered land, 80.00 chs.	
	June 9, 1898.	

General Description

This line crosses high ridges and deep hollows and cañons with a westerly trend.

The land east and west of the line is of a rough broken character, well watered and well timbered, very well adapted for grazing; the land should be subdivided.

Scott O. Stewart,
Andrew J. Stewart Jr.
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 .....

....., 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 .....

.....

showing the respective capacities in which they acted:

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

, United States Deputy Surveyor, in surveying all those parts or portions of the .....

.....

.....

..... of the .....

..... meridian, ... of ....., 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 .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

.....

.....

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solemnly swear that, in pursuance of a contract received from [illegible], bearing date of the United States Surveyor General for [illegible] day of [illegible], 18[illegible], 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 [illegible], the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of [illegible]

[illegible] and the [illegible] are represented in the foregoing field notes [illegible] and I do further solemnly swear that all the [illegible] have been established and perpetuated in strict accordance with the Manual of Surveying Instructions [illegible] United States Surveyor General for [illegible] and that the foregoing [illegible] and should any fraud be detected, I will suffer the penalty of perjury [illegible] Act of Congress approved August [illegible] 18[illegible]

United States Deputy Surveyor.

Subscribed by said [illegible] at [illegible] this [illegible] day of [illegible], 18[illegible]

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

[illegible] July [illegible] 18[illegible]

The foregoing field notes of the survey of [illegible] 17 [illegible] Rangers [illegible] & [illegible]

executed by [illegible] under his contract No. [illegible], dated [illegible], 18[illegible], having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Jacob B. Bell

United States Surveyor General.

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

United States Surveyor General.

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4—679.

BOOK A-257

FIELD NOTES

OF THE SURVEY OF THE

North, West and South

Boundaries

of

Township 17 South, Range 1 West

Of the Salt Lake Base and *Meridian,*

In the State of Utah.

AS SURVEYED BY

Scott P. Stewart, 3rd and Andrew J. Stewart, Jr. *United States Deputy Surveyors*

Under ~~his~~ their *Contract No.* 217, *dated* November 1st, *1897.*

Survey commenced June 9th, *1898.*

Survey completed June 15th, *1898.*

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NAMES AND DUTIES OF ASSISTANTS.

John P. Stewart, Chainman.

Daniel St. Y. McAllister, Chainman.

Wm W. Richardson Jr. Chainman.

Alma Betts, Chainman.

Antone P. Stewart, Moundman.

Peter S. Sorensen, Moundman.

Benjamin F. Stewart, Axman.

Quinby Stewart Flagman.

For preliminary affidavit see book "B"

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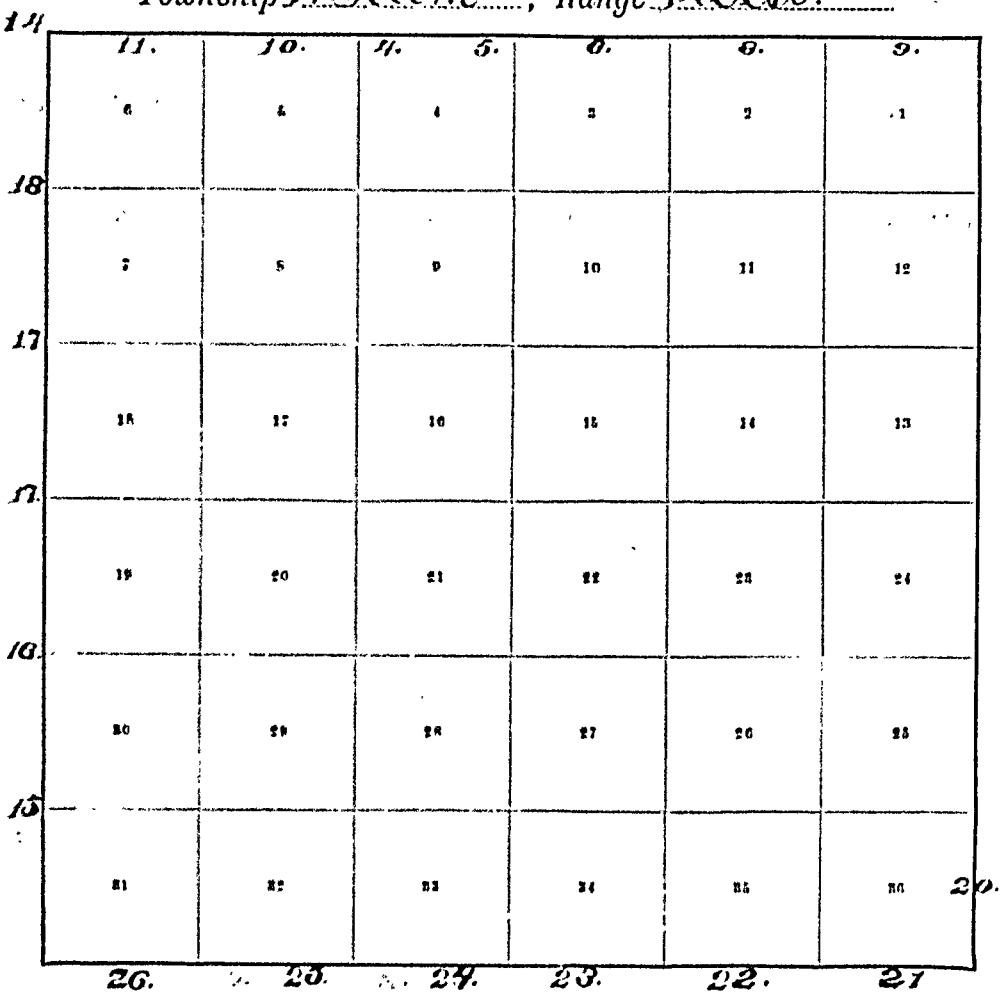
BOOK A-257

INDEX DIAGRAM.

Township 17 South, *Range* 1 West.



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-00-00
-00-00
40-00
-05-00
21-50

40-00

1-00-00

37.85
37.85

Retracement
W Bdry - 17 S. 2
M. Chs lks -
42.25
40.00

~~N Bdry~~
~~40.00~~

West Bdry -
high
M. Chs lks -
1-00-00
1-00-00
1-00-00
44.25
3-44-25
1 00 00
44.25

1-02-25

Resurvey -
S - Bdry -
M. Chs lks -
1-00-80
1-02-80
1-00-80
1-00-80
1-00-80
40.40
5 46.40

S - Bdry -
high
M. Chs lks -
40-00
3-21-50
3-61-50

closing
39-00
39-00

Volume
#
R0257

North boundary of T. 17 S., R. 1 W. - Eastern Portion.

Chains Survey commenced June 9, 1898, and executed with a W. and S. E. Gurley light mountain transit No-, with solar attachment the horizontal limb being 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; and a Buff and Berger transit, No 2511 the horizontal limb is provided with two double verniers reading to single minutes of arc.

The instruments were examined, tested on the true meridian at Salt Lake City, found correct, and were approved by the surveyor general for Utah the former on December 4, 1897; and the latter on April 5, 1898.

We examine the adjustments of the instruments and correct the level and collimation errors, then to test the solar apparatus of the Gurley instrument by comparing its indications resulting from solar observations made during p. m. and a. m. hours with a true meridian determined by observations on Polaris, we proceed as follows:

At the temp. cor. of T. ps. 16 and 17 S., Rs. 1 E. and 1 W., latitude 39° 23' N., longitude 111° 53' 47" W.; we set off 39° 23' N. on the lat. arc;

at 5h. 3m p. m. l. m. t. determine with the solar, of the Gurley instrument a true meridian, and mark a point thereof on a stone firmly set in the ground 5.00 chs. N. of our station.

At 2h 11m a. m., l. m. t., we observe Polaris at eastern elongation with the Buff and Berger instrument in accordance with the manual of instructions, and mark a point in the line thus determined, on a plug driven in the ground 5.00 chs. N. of our station. June 10, 1898.

June 10, 1898: At 6h 31m a. m., l. m. t., we lay off the azimuth of Polaris 1° 36' to the west, on the Buff and Berger instrument and mark the True Meridian thus determined, by cutting a small groove in the stone set June 9, on which the true meridian falls 0.34 ins. east of the mark determined by the solar of the Gurley instrument.

At 6h 48m a. m., l. m. t., we lay off the azimuth of Polaris 1° 36' to the west, on the Gurley instrument, and mark the True Meridian thus determined by cutting a small groove in the stone set June 9, on which the true meridian falls 0.34 ins. east of the mark determined by the solar.

North boundary of T. 17 S., R. 1 W. - Continued.

Chains

At 7h 30m a. m., l. m. t., we set off 39°23' N. on the lat. arc. 23° 4' N., on the decl. arc.; and mark a point in the true meridian determined with the solar of the Gurley instrument by a cross on the stone already set 5.00 chs. N. of our station; this mark falls 0.22 ins. east of the true meridian established by Polaris observation.

The solar apparatus of the Gurley instrument, by p. m., and a. m., observations, defines positions for true meridians, respectively about 0'18" west and 0'12" east of the meridian established by Polaris observations. Therefore we conclude that the adjustments of the instruments are satisfactory.

The mean magnetic bearing of the true meridian at 7h. 34m a. m., is N. 16° 35' W., the angle thus determined reduced by the table page 100 of the Manual, gives the mean mag. decl. 16° 30' E.

From the temp. cor. of T. p. s. 16 and 17 S. Rs. 1 E. and 1 W. we run

West, on a random line, along the N. bdy. of T. p. 17 S., R. 1 W., setting temp ¼ sec. and sec. cors. at intervals of 40.00 chs.; and, at 296.49 chs; we find slight traces of the old ¼ sec. cor. 181 lks. S. of our point but are not certain as to its identity. At 336.49 chs. we

Chains	
	fall 286 lks. N. of the cor. of secs. 4, 5, 32 and 33, which is a greatly decayed stake with good evidences of old mound of earth and pits, marked and witnissed as described by the surveyor general.
	We reestablish the cor. at same point as follows:
	Set a limestone 16 x 6 x 6 ins., 11 ins. in the ground for reestablished cor. of secs. 4, 5, 32, and 33 marked with 4 notches on E. and 2 notches on W. edges; 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.
	Thence we run
	N. 88° 30' E., on a resurvey line bet. W. ½ of secs. 4 and 33.
	Over gently ascending ground through dense sage brush.
4.50	Center of wash, 50 lks. wide, 10 ft. deep course S. 60° W.; thence along bottom of wash.
28.00	Leave wash, course W.; ascend.
35.00	Center of County road from Nephi City to Manti City bears N. E. and S. 20° E.; enter scattering cedar timber, bears N. and S.
40.00	Find same traces of old mound of earth and pits but no stake, therefore we reestablish the cor. in its original position as follows:
	Set a limestone, 17 x 10 x 6 ins., 11 ins. in the ground for reestablished ¼ sec. cor. marked ¼ on N. face; from which

North boundary of T. 17 S., R. 1 W. - Continued.

Chains.	
	A cedar, 10 ins. diam. bears S. 29° 30' W., 123 lks. dist., marked ¼ S. 4 B T.; 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.
	The falling answers to a correction of 0° 21', or 50 lks. S. per. mile, counting from the N. E. cor. of the Tp., to the ¼ sec. cor. bet. secs. 4 and 33 therefore we run N. 89° 39' E., on a true line bet. the E. ½ of secs. 4 and 33.
20.75	Top of sharp rocky ridge, 100 ft. above ¼ sec. cor., bears N. and S.; descend abruptly
24.75	Bottom of wash, 50 lks. wide 12 ft. deep, in hollow 150 ft. below ridge, course S. 10° W.; leave cedar timber, bears with hollow ascend gently.
44.00	Enter heavy cedar timber, leave undergrowth, bears N. and S.
56.50	Set a hard sandstone, 16 x 10 x 8 ins., 12 ins. in the ground for cor. of secs. 3, 4, 33, and 34 marked with 3 notches on E. and 3 notches on W. edges; from which
	A cedar, 10 ins. diam., bears N. 30° E., 20 lks. dist., marked T. 16 S. R.

Chain 1 W., S. 34, B. T.
A cedar, 8 ins. diam., bears S. 26° E., 60 lks. dist., marked T. 17 S., R. 1 W., S. 3 B. T.
A cedar, 6 ins. diam., bears S. 40° W. 80 lks. dist., marked T. 17 S., R. 1 W., S. 4 B. T.
A cedar, 7 ins. diam., bears N. 64° W., 76 lks. dist., marked T. 16 S., R. 1 W. S. 33, B T.
and raise a mound of stone 2 ft. base, 2 ft. high, W. of cor.
Pits impracticable.
Sand, mountainous.
Soil, clay and gravelly loam; 2nd rate.
Good grass for grazing.
Timber, scattering cedar.
Undergrowth, sage brush.
Mountainous or heavily timbered land, or land covered with dense under-growth 56.50 chs.
June 10, 1898: At this cor., we set off 23° 04' N., on the decl. arc.; and at 11h 5m a. m., l. m. t., observe the sun on the meridian; the resulting lat. is 39° 23' N., which is about 0.3 greater than the proper lat.

N. 89° 39' E., on a true line bet. secs. 3 and 34.
Over gradually ascending ground through heavy

North boundary of T. 17 S., R. 1 W. - Continued.

Chains	
	cedar timber.
25.00	Begin ascent of mountain bears N. E. and S. W.
40.00	Set a hard sandstone 16 x 12 x 10 ins., 11 ins in the ground, for ¼ sec. cor., marked ¼ on N. face; from which A cedar, 8 ins. diam., bears N. 15° E., 10 lks. dist., marked ¼ S. 34 B. T. A cedar, 10 ins. diam., bears S. 72° 30' W., 52 lks. dist., marked ¼ S. 3, B. T.
48.50	Top of high ridge 500 ft above sec. cor., bears N. 65° E. and S. 35° W.; descend.
73.50	Bottom of hollow, 200 ft. below ridge, course S. 45° W.; ascend.
80.00	The point for sec. cor. 100 ft. above hollow, falls on a boulder in place, 24 x 24 x 36 ins., above ground on which we cut a cross (x) at the exact cor. point for cor. of secs. 2, 3, 34, and 35, marked with 2 notches on E. and 4 notches on W. edges; from which A cedar, 14 ins. diam., bears N. 62° E., 75 lks. dist., marked T. 16 S. R. 1 W., S. 35 B. T. A cedar, 10 ins. diam., bears S. 30° E., 60 lks. dist., marked T. 17 S., R. 1 W., S. 2 B. T. A cedar, 12 ins. diam., bears S. 56° W., 80 lks. dist.,

Chains	
	marked T. 17 S., R. 1 W., S. 3, B. T.
	A pinon pine, 8 ins. diam., bears N. 86° W. 22 lks. dist. marked T. 16 S., R. 1 W., S. 34, B. T.
	Sand mountainous and level.
	Soil clay and gravelly loam; 2nd rate.
	Good grass for grazing.
	Timber cedar and pinon pine.
	Mountainous, or heavily timbered land, 80.00 chs.
	N. 89° 39' E., on a true line bet. secs. 2 and 35.
	Over mountainous land through heavy cedar and pinon pine timber; ascend.
28.00	Top of ridge, 200 ft. above sec. cor. bears N. 30° W. and S. 30° E.; descend.
40.00	Set a sandstone, 14 x 8 x 6 ins., 9 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which
	A cedar, 10 ins. diam., bears N. 4° W. 22 lks. dist. marked ¼ S. 35 B. T.
	A cedar, 5 ins. diam., bears S. 19° W. 16 lks. dist., marked ¼ S. 2 B. T.
71.50	Scave timber; enter dense undergrowth, bears N. and S. Foot of steep descent; enter Little Valley, bears N. 20° E. and S. 20° W. 150 ft. below ridge.
77.15	Wash, 36 lks. wide, 8 ft. deep, course S. 35° W.; ascend gently.
80.00	Set a trachyte stone, 18 x 10 x 7 ins., 10 ins. in the ground for cor. of secs. 1, 2, 35 and 36, marked with 1 notch on E. and 3 notches

on W. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
Land, mountainous and nearly level.
Soil, sandy and clay loam; 2nd. rate.
Good grass for grazing.
Timber, cedar and pinion pine.
Undergrowth, sage brush.
Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.

N. 89° 39' E., on a true line bet. secs. 1 and 36.
Over gradually descending ground; through dense undergrowth.
18.00 Wash, 20 lks. wide, 6 ft. deep, course S. 10° W.
19.03 Wash, 25 lks. wide, 7 ft. deep, course S. 15° W.
20.00 Wood road, bears N. and S.
40.00 Set a sandstone, 18 x 12 x 7 ins., 10 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.
41.00 Foot of mountain; begin steep ascent, bears N. and S.
43.00 Enter heavy cedar timber, bears N. and S.
80.00 The temp. cor. of Tps. 16 and 17 S., Rs. 1 E. and 1 W. we destroy all traces of the temp. cor. and
set a quartzite stone 24 x 8 x 5 ins., 18 ins. in the ground, for cor. of Tps. 16 and 17 S., Rs. 1 E. and 1 W. marked 16 S. on N. E., 1 E. on S. E. 17 S. on S. W. 1 and 1 W. on N. W. faces; with 6 notches on each edge; from which
A pinion pine 8 ins. diam., bears N. 60° 30' E., 25 lks. dist., marked T. 16 S., R. 1 E. S. 31, B. T.

A cedar, 12 ins. diam., bears S. 41° 30' E., 25 lks. dist., marked T. 17 S., R. 1 E. S. 6. B.T.

A pinion pine, 6 ins. diam., bears S. 24° W., 25 lks. dist., marked T. 17 S., R. 1 W., S. 1, B.T.

A pinion pine, 6 ins. diam., bears N. 88° W., 32 lks. dist., marked T. 16 S., R. 1 W., S. 36, B.T.

Land, mountainous and nearly level.
Soil, sandy loam in valley, gravelly and rocky on mountain; 1st. 3rd. and 4th. rate.
Good grass for grazing.
Timber, cedar and pinion pine.
Undergrowth, sage brush.
Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chains.

June 10, 1898.

June 11, 1898: At 7h. 4m. a. m., l. m. t. we set off 39° 23' N. on the lat. arc; 23° 08' N. on the decl. arc, and determine a true meridian at the reestablished cor. of secs. 4, 5, 32 and 33, heretofore described.

Note.—All the old lines in this neighborhood we have found to be run on a course, the N. lines run N. 1° 30' W., and the W. lines run S. 88° 30' W. We are unable to find the 1/4 sec. cor. bet. secs. 5 and 32, therefore we commence at the above described cor. and run S. 88° 30' W. on a resurvey line bet. secs. 5 and 32. Over nearly level land, through dense sage brush, descend gently.

22.50 Old road, bears N. and S.

24.00 Wash, 3 ft. deep, 20 lks. wide, course S. 20° W.

North boundary of T. 7 S. R. 1 W., Western Portion.

chains	
40.00	We find slight traces of mound of earth and pits, but no stake. We reestablish the 1/4 sec. cor. as follows: Set a quartzite stone, 18 x 10 x 8 ins., 12 ins. in the ground, for reestablished 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. Thence we run West bet. W. halves of secs. 5 and 32.
10.90	Enter heavy cedar timber; leave undergrowth, bears N. and S.
20.50	Foot of rocky mountain, bears N. and S.; ascend abruptly.
24.50	Top of ridge, 200 ft. above foot; leave timber, bears N. and S.; descend.
39.50	Foot of steep descent, 300 ft. below ridge, bears N. and S.
40.00	Set a limestone, 18 x 12 x 6 ins., 12 ins. in the ground, for cor. of secs. 5; 6, 31 and 32, marked with 5 notches on E. and 1 notch on W. edges; from which A limestone ledge bears S. 87° E. 70 lks. dist., marked + B. O.; and raise a mound of stone, 3 ft. base, 3 ft. high W. of cor. Pits impracticable. Land, mountainous, and level. Soil, E. 60.50 chs. sandy loam; 1st rate; W. 19.50 chs. rocky; 4th. rate. Good grass for grazing. Timber, cedar; undergrowth, sage brush. Mountainous or heavily timbered land, or land covered with dense undergrowth, 40.00 chs.

West, on a true line bet. secs. 6, and 31.

North boundary of T. 17 S., R. 1 W., Western Portion.

Chains	
	Over rolling ground, through dense undergrowth.
3.33	Bottom of hollow, 20 ft. below sec. cor., course S. ascend.
7.00	Enter scattering cedar timber, bears N. and S.
15.00	Ridge, 30 ft. above hollow bears N. and S.; descend.
20.65	Wash, 3 ft. deep, 10 lks. wide, course S. ascend.
33.20	Top of ridge, 150 ft. above wash, bears N. and S. descend.
40.00	Set a sandstone, 18 x 14 x 6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; from which A cedar, 10 ins. diam., bears N. 60° E., 30 lks. dist., marked 1/4 S. 31, B. T.; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of Cor. Pits impracticable.
40.50	Leave cedar timber, bears N. and S.
46.00	Foot of mountain, bears N.W. and S.E.
57.50	Road from Fayette to Scipio, bears N. 70° W. and S. 70° E.
62.25	Wash, 10 ft. deep, 20 lks. wide, course, S.
63.76	Right bank of Sevier River, course N. 80° W., current sluggish, 4 ft. deep.
67.00	Left bank of river, course N. 70° W.
69.00	Left bank of Sevier River, course S. 80° W.
80.00	Right bank of Sevier River, course S. 85° W., sluggish current, 4 ft. deep.
87.00	Right bank of Sevier River, course N. 3° W., sluggish current 4 ft. deep.
88.41	Left bank of river, course N. 3° W.
90.73	Old road, bears N.W. and S.E.
	Leave bottom land; ascend over rolling ground.
115.50	Top of ridge, 120 ft. above river, bears N. 20° W. and S. 20° E.; descend.
120.70	Hollow, 80 ft. below ridge course N. 20° W. ascend.
133.00	Ridge, 75 ft. above hollow, bears N. 20° W.

North boundary of T. 17 S., R. 1 W. Western Portion.

Chains	
	and S. 20° E.; descend.
167.50	Hollow, 30 ft. below ridge course N. 20° W.; ascend.
170.75	Old wood road, bears N. and S.
181.00	Top of ridge, 40 ft. above hollow; bears N. 20° W. and S. 20° E.; descend.
185:25	Bottom of hollow; 30 ft. below ridge, course N. 10° W. and S. 10° E.; ascend.
216.50	Top of broad low ridge, 30 ft. above hollow bears N. 10° W. and S. 10° E.; descend.
245:00	Intersect E. bdy. of Tp. 17 S. R. 2 W. S. 0° 35' W. 37.85 chs. from cor. of Tps. 16 and 17 S. R. 2 W., which is a sandstone, 6 X 12 X 9 ins; above ground, marked and witnessed as described by the surveyor general.
	Note.—We destroy all marks on the above described cor. which refer to Tps. 16 and 17 S. R. 1 W.
	Set a quartzite stone, 16 X 8 X 5 ins., 12 ins. in the ground for closing cor. of Tps. 16 and 17 S. R. 1 W., marked C. C. 1 W. on E., 16 S. on N., and 17 S. on S. faces. with 6 grooves on E., N., and S. faces; dig pits, 30 X 24 X 12 ins., cross wise on each line, N. and S., 4 ft., and E of stone, 8 ft. dist; and raise a mound of earth, 3-ft. base, 2½ ft. high, E. of cor.
	Land, level and mountainous
	Soil, sandy and clay loam; 1st. and 2nd rate.
	Good grass for grazing.
	Timber, cedar.
	Undergrowth, sage brush.
	Mountainous,
	land, or land covered with dense undergrowth, 245:00 chs.

Note: In order to locate the ¼ sec. cor.

Retracement of E. boundary

chains on E. bdy. of sec. 12, T. 17 S. R. 2 W., we find it necessary to retrace the E. bdy. of the T-p., therefore we proceed as follows; From the closing cor. of Tps. 16 and 17 S. R. 1 W; we run

South, on a retracement line along E. side of sec. 1.

2.25 The 1/4 sec. cor. which is a sandstone, 10x12x9 ins. above ground, marked and witnessed as described by the surveyor general, bears W. 2 lks. dist. We 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.

42.25 The cor. of sec. 1 and 12, which is a sand stone, 5x12x9 ins., above ground, m and witnessed as described by the surveyor general, bears W. 27 lks. dist. The course of this line is therefore, S. 0° 21' W.

South, on a retracement line along E. side of sec. 12, T. 17 S. R. 2 W from cor. of secs. 1 and 1

40.00 The 1/4 sec. cor. which is a sandstone, 5x9x5 ins; above ground, marked and witnessed as described by the surver general, bears W. 24 lks. dist.; we dig pits, 18x18x12 ins., N. and S. of ston 3 ft. dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft high, W. of c June 11, 1898: at this cor. we set off 23 N. on the decl. arc; and at 0h. 4m l. m. t., observe the sun on the resulting lat. is 39° 22' N., is about 0'.16' greater than the pr lat. - The course of the N. 1/2 mile on E. bdy 12 is therefore S. 0° 21' W.

Thence we run from said 1/4 sec. South, on a random line al W. boundary of T. 17 S., R. 1 W., temp. sec. and 1/4 sec. cors. at

West boundary of T. 17 S. R. 1 W.

chains	
	of 40.00 chs. and at 364.25 chs. to point 222 lks. E. of the cor. of Tps. 17 and 18 S., Rs. 1 and 2 W., which is a gray sand stone; 8x10x8 ins., above ground, marked and witnessed as described by the surveyor general.
	The falling answers to a correction of 0°21', or 49 lks. W. per. mile counting from the 1/4 sec. cor. on E. side of sec. 12, T. 17 S., R. 2 W.; therefore we run.
	N. 0°21' E., on a true line along the E. side of sec. 36.
	Over mountainous land, through dense under growth of oak, and scattering cedar timber; ascend.
19.00	Top of ridge, 100 ft. above Tp. cor., bears N. 35° E. and S. 35° W. descend.
38.20	Cañon, 300 ft. below ridge, course N. 70° E.; ascend.
40.00	Set a limestone, 18x12x9 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; and raise a mound of stone, 2 1/2 ft. base, 2 ft. high W. of cor. Pits impracticable.
66.80	Top of ridge, 400 ft. above cañon, bears N. 20° E., and S. 20° W.; descend
80.00	Set a limestone, 28x12x6 ins., 20 ins. in the ground, for cor. of secs. 25, and 36, marked with 5 notches on N. and 1 notch on S. edges; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.
	Land, mountainous.
	Soil, clay and gravelly loam; 2nd. rate.
	Good grass for grazing.
	Timber, scattering cedar and mohogany.
	Undergrowth, oak and service berry.
	Mountainous land, or land covered with dense undergrowth, 80.00 chs.
	June 11, 1898.

Chains	
	June 13: The sky is overcast the entire afternoon and solar observations are impossible.
	From the cor. of secs. 25 and 36 we run N. 0° 21' E., on a true line along the E. side of sec. 25:
	Over mountainous land, through scattering cedar timber, and dense oak undergrowth; descend.
7.13	Head of cañon, 300 ft. below ridge, on S., course N. 45° E.; ascend.
28.00	Top of ridge, 200 ft. above cañon, bear N. 48° E. and S. 48° W.; descend.
40.00	Set a limestone, 24 x 12 x 10 ins., 18 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.
72.00	Hollow, 300 ft. below ridge, course N. 40° E.; ascend.
80.00	Set a limestone, 14 x 7 x 7 ins., 9 ins. in the ground, for cor. of secs. 24 and 25; marked with 4 notches on N. and 2 notches on S. edges; from which
	A cedar, 10 ins. diam., bears N. 40° W., 28 lks. dist., marked T. 17 S., R. 2 W. S. 24, B. T.
	A mahogany, 6 ins. diam., bears S. 70° W., 65 lks. dist., marked T. 17 S., R. 2 W., S. 25; B. T.
	Land, mountainous. Soil, gravelly and clay loam. 2nd. Good grass for grazing. Undergrowth, oak, rose, sage and manzanita. Timber, scattering cedar. Mountainous land, or land covered with dense undergrowth, 80.00 chains.

West boundary of T. 17 S., R. 1 W.- Continued.

Chains	
	N. 0° 21' E., on a true line along the E. side of sec. 24.
	Over mountainous land, through heavy cedar and pinion pine timber; ascend.
11.60	Top of ridge, 100 ft. above hollow on S., bears E. and W.; descend.
22.00	Bottom of hollow, 100 ft. below ridge, course N. 24° E.; ascend.
40.00	Set a quartzite stone, 18 x 12 x 4 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; from which.
	A pinion pine 8 ins. diam., bears W. 40 lks. dist., marked 1/4 S. 24, B. T.; and raise a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor.
54.30	Top of ridge, 230 ft. above hollow, bears E. and W.
80.00	Set a quartzite stone, 14 x 14 x 6 ins., 9 ins. in the ground, for cor. of secs. 13 and 24, marked with 3 notches on N. and 3 notches on S. edges; from which
	A pinion pine, 6 ins. diam., bears S. 85° W., 70 lks. dist., marked T. 17 S., R. 2 W. S. 24 B. T.
	A pinion pine, 3 ins. diam., bears N. 20° W., 10 lks. dist., marked T. 17 S. R. 2 W., S. 13, B. T.; and raise a mound of stone, 2 ft. base, 2 ft. high, W. of cor.
	Land, mountainous.
	Soil, gravelly; 2nd rate.
	Good grass for grazing.
	Timber, cedar and pinion pine.
	Mountainous or heavily timbered land, 80.00 chains.
	N. 0° 21' E., on a true line along the E. side of sec. 13.

West boundary of T. 17 S., R. 1 W. - Continued

chains Over mountainous land, through heavy cedar and pinon pine timber; descend.

7.00 Hollow, 300 ft. below ridge, course N. 20° E.; ascend.

35.30 Top of ridge, 90 ft. above hollow, bears N. 30° E., and S. 30° W.; descend.

40.00 Set a quartzite stone, 15 x 9 x 6 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; from which

A cedar, 4 ins. diam., bears N. 30° W., 50 lks. dist., marked 1/4 S. 13, B. T.; and raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor.

51.50 Hollow 200 ft. below ridge, course N. 50° E.; ascend.

63.00 Top of ridge, 400 ft. above hollow, bears N. 22° E., and S. 22° W.; descend.

72.90 Hollow, 175 ft. below ridge, course N. 65° E.; ascend.

80.00 Set a limestone, 30 x 30 x 10 ins., 22 ins. in the ground, for cor. of secs. 12 and 13, marked with 2 notches on N. and 4 notches on S. edges; from which

A cedar, 9 ins. diam., bears S. 30° 80 lks. dist., marked T. 17 S., R. 2 W. S. 13, B. T.

No other trees in limits; and raise a mound of stone, 3 ft. base, 3 ft. high, W. of cor. Pits impractical

Land, mountainous.

Soil, gravelly; 2nd. rate.

Good grass for grazing.

Timber, cedar.

Mountainous or heavily timbered land, 80.00 chs.

N. 0° 21' E., on a true line along the E. of sec. 12.

West boundary of T.17 S., R.1 W.— Concluded.

chains	
	Over mountainous land; ascend.
2.15	Top of ridge, 150 ft. above hollow on S., bears N. 80° E., and S. 80° W.; descend.
44.25	The 1/4 sec. cor. on E. side of sec. 12, heretofore described.
	Land, mountainous.
	Soil, gravelly; 2nd rate.
	Good grass for grazing.
	Mountainous land, 44.25 chains.

June 14, 1898: At 7h. 4m. a.m., l, m, t., we set off 39°17' N., on the lat. arc; 23° 19' N., on the decl. arc; and determine a true meridian with the solar, at the 1/4 sec. cor. bet. secs. 5 and 32 on S. bdy. of the Tp., which is a greatly decayed post in old mound of earth, marked and witnessed as described by the surveyor general, and which we locate after much diligent search and enquiry. We reestablish the cor. at same point as follows;

Set a gray limestone 18x18x4 ins., 12 ins., in the ground, for reestablished 1/4 sec. cor., marked 1/4 on N. face; from which

A pinion pine, 12 ins. diam., bears N. 13° E., 30 lks. dist., marked 1/4 S. 32, B.T.

A pinion pine, 8 ins., diam. bears S. 35° E., 15 lks. dist., marked 1/4 S. 5; B.T.

Note:— Before proceeding with the survey of this boundary we think it advisable to retrace and if necessary to resurvey the Eastern portion therefore we run.

East on a retracement line along the S. bdy. of Tp. and at 40.00 chs. we find no trace of the cor. of secs. 4, 5; 32 and 33. Therefore we continue our

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chains line E., failing in every instance to find corners and at 282.71 chs. we fall 7.45 chs. S. of the cor. of secs. 1, 2, 35; and 36, which is a greatly decayed post in old mound, marked and witnessed as described by the surveyor general, the marks being nearly obliterated. The course of this line back is therefore S. 88° 29' W. From this cor. we continue our retracement line E. At 40.00 chs. find no trace of 1/4 sec. cor. At 82.77 chs. the cor. of Tps. 17 and 18 S., Rs. 1 E. and 1 W. which is a part decayed post in mound of earth, marked and witnessed as describe by the surveyor general, the ma are nearly obliterated, bears N. 2.19 lks. dist.

From the cor. we run

North on a retracement line along E. bdy of the Tp. bet. secs. 31 and 36, and at 40.00 chs., find no trace of 1/4 sec. cor. At 80.77 chs., the cor. of secs. 25, 30, 31 and 36, heretofore described bears W. 2.12 chs. dist. the course of this line is therefore N. 1° 30' W.

Thence we run

S 1° 30' E., on a resurvey line bet. secs. 31 and 36.

Over mountainous land, through scattering cedar timber; descend along E. side of cañon.

5:00 Bottom of hollow 25 ft. below ridge course S. W.; ascend.

25:00 Top of spur, 10 ft. above cañon, bears E. and W.; descend.

40.40 Find no trace of 1/4 sec. cor.

Set a quartzite stone, 14 x 9 x 6 ins., 9 ins. in the ground, for reestablished 1/4 sec. cor., marked 1/4 on W. face; from which a cedar, 8 ins. diam., bears S. 86°

Resurvey of South boundary of T. 17 S., R. 1 W.

Chains	
	30' E., 65 lks. dist., marked 1/4 S. 31, B. T.
	A cedar, 12 ins. diam., bears S. 20° W., 46 lks. dist., marked 1/4 S. 31, B. T.
	A cedar, 12 ins. diam., bears S. 20° W., 46 lks. dist., marked 1/4 S. 36, B. T.
	Foot of mountain, bears N. W. and S. E.
80.80	The old cor. of Tps. 17 and 18 S. Rs. 1 E. and 1 W. heretofore described. We reestablish the Tp. cor. at the same point as follows:
	Set a sandstone, 18 x 12 x 6 ins., 13 ins. in the ground, for cor. of Tps. 17 and 18 S., Rs. 1 E. and 1 W., marked 17 S., on N. E., 1 E. on S. E., 18 S., on S. W. & 1 W. on N. W. faces; with 6 notches on each edge; and raise a mound of stone, 2 ft. base 1 1/2 ft. high, S. of cor.
	Pits impracticable
	Land, mountainous and level.
	Soil, clay and gravelly loam; 2nd rate
	Good grass for grazing.
	Timber, scattering cedar.
	Mountainous land, 40.40 chs.
	June 14, 1898: At this cor. we set off 23° 14' N., on the decl. arc; and at 0h 3m p.m., l. m. t., observe the sun on the meridian; the resulting lat. is 39° 17' N.
	Thence we run
	S 88° 29' W., on a resurvey line bet. secs. 10 and 36.
	Over bench land, nearly level, through dense sage undergrowth.
	Descend gently
41.40	Find no trace of 1/4 sec. cor.
	Set a sandstone, 18 x 10 x 6 ins., 12 ins. in the ground, for reestablished 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.

Resurvey of South boundary of T. 17

chains	
c 82.80	The old cor. of secs. 1, 2, 35, and 36, heretofore described, we reestablish cor. at same point as follows: Set a quartzite stone, 18 x 12 x 10 ins., 12 in. in the ground, for reestablished cor. of secs. 1, 2, 35, and 36, marked with (one) notch on E. and 5 notches on W. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. Land, nearly level. Soil, sandy and gravelly loam; 2nd. rate. Good grass for grazing. Undergrowth, sage. No timber. Land covered with dense under
	82.80 chs.
	Note.- Being unable to find any c bet. this cor. and the 1/4 sec. cor. bet. secs. 35 and 32 we run on a true resurvey line, placing the discrepancy of measurement equally in each mi
	S. 88° 29' W., on a true resurvey line, secs. 2 and 35:
	Over nearly level mesa; descend ge
15.50	Edge of bench or mesa, bears N. 20° W. and S. 20° E.
20.00	Canal, 15 lks. wide 1 ft. deep, gentle current, course N. 25° W.; at foot of mesa, bears with canal.
	Enter cultivated land.
40.40	Set a sandstone, 14 x 6 x 6 ins., 9 ins. the ground, for 1/4 sec cor., marked 1/4 face; dig pits, 18 x 18 x 12 ins., E. and W. stone, 3 ft. dist.; and raise a mou earth, 3½ ft. base; 1½ ft. high, N.
40.45	Right bank of Sevier River, 6 ft. water, stream sluggish, 3 ft.

Resurvey of South boundary of T. 17 S., R. 1 W. continued

	N. 80° W.
43.00	Left bank of River, at bend of river, course N. 80° W.
	Enter meadow land.
c 80.80	Find no trace of cor. of secs. 2, 3, 34 and 35. Set a sandstone, 14 x 6 x 6 ins., 9 ins. in the ground, for reestablished cor. of secs. 2, 3, 34, and 35; marked with 2 notches on E. and 1 notches on W. edges; 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, nearly level.
	Soil, sandy and clay loam; 1st. rate
	Good grass for grazing.
	S. 88° 29' W., on a true resurvey line bet. secs. 3 and 34.
	Over meadow land, nearly level.
22.25	Fence, bears N. and S.; leave meadow.
40.40	Find no trace of ¼ s. c. cor. Set a sandstone, 15 x 7 x 6 ins., 10 ins. in the ground, for reestablished 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.
51.50	Old water ditch, dry, course N.
62.00	Old road, bears N. and S.
c 80.80	Find no trace of cor. of secs. 3, 4, 33, and 34. Set a quartzite stone, 20 x 10 x 8 ins., 15 ins. in the ground, for reestablished cor of secs. 3, 4, 33, and 34, marked with 3 notches on E. and 3 notches on W. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable
	Land, nearly level.
	Soil, clay loam, 2nd. rate
	Good grass for grazing.

Resurvey of S. bdy. of T. 17 S., R. 1 W. - Continued

chains No timber

S. 88° 29 W., on a true resurvey line bet. secs. 4, and 33.
Over mountainous land, ascend.
40.40 Find no trace of 1/4 sec. cor.
Set a limestone 22 x 8 x 6 ins. 16 ins. in the ground, for reestablished 1/4 sec. cor., marke 1/4 on N. face; from which
A cedar 4 ins. diam., bears S. 32½° E. 78 lks. dist., marked 1/4 S. 4 B. T. No other trees in limits and raise a mound of stone, 2 ft. base 2 ft. high N. of cor.
Pits impracticable.
Enter scattering cedar and pinion pine.
80.80 Find no trace of cor. of secs. 4, 5; 32 and 33.
Set a limestone, 28 x 6 x 6 ins; 20 ins. in the ground, for reestablished cor. of secs. 4, 5; 32 and 33, marked with 4 notches on E. and 2 notches on W. edges; from which
A pinion pine, 6 ins. diam., bears S. 42½° E., 160 lks. dist., marked T. 18 S. R. 1 W., S. 4 B. T.
A cedar, 6 ins. diam., bears N. 41½° W., 50 lks. dist., marked T. 17 S., R. 1 W. S. 32, B. T. No other trees in limits to mark; and raise a mound of stone, 3 ft. base, 3 ft. high, W. of cor.
Land, mountainous.
Soil, sandy and gravelly loam. 2nd. rate
Good grass for grazing.
Timber, scattering cedar and pinion pine.
Mountainous land 80.80 chains
June 14, 1898:

June 15, 1898: At 8h. 3m. a. m. l. m. t; we set

South boundary of T. 17 S., R. 1 W. - Continued.

Chains	
	off 39° 17' N. on the lat. arc; 23° 21' N. on the decl. arc; and determine a true meridian with the solar at the reestablished cor. of secs. 4, 5, 32, and 33.
	Thence we run.
	S. 88° 29' W. on a true resurvey line bet. secs. 5 and 32.
	Over mountainous land, ascend; through scattering cedar and pinion pine timber.
3.50	Wash, 4 ft. deep, 10 lks. wide, course S. 80° E.
20.00	Top of ridge, 100 ft. above cor., bears N. and S.; descend.
26.50	Wash in hollow, 40 ft. below ridge, course N. 80° E.
40.40	Top of ridge, 200 ft. above hollow bears N. and S.
	The reestablished 1/4 sec. cor. bet. secs. 5 and 32, heretofore described.
	Land, mountainous.
	Soil, gravelly loam; 2nd. rate.
	Timber, cedar and pinion pine.
	Good grass for grazing.
	Mountainous land, 40.40 chs.
	Thence we run
	West, bet the W. half of secs. 5 and 32, through heavy timber; descend.
9.00	Bottom of same hollow 20 ft. below ridge, S. 80° E.; ascend.
40.00	Set a gray limestone, 26 x 16 x 6 ins., 19 ins. in the ground, for cor. of secs. 5, 6, 31, and 32, marked with 5 notches on E. and 1 notch on W. edges; from which
	A cedar, 3 ins. diam., bears N. 13° E. 15 lks. dist., marked T. 17 S., R. 1 W., S. 32, B. T.
	A cedar, 5 ins. diam., bears S. 43° E. 108 lks. dist., marked T. 18 S., R. 1 W.

Chains	
	S. 5 B. T. A cedar, 5 ins. diam., bears S. 14° W., 110 lks. dist., marked T. 18 S. R. 1 W. S. 6. B. T. A cedar, 4 ins. diam., bears N. 47° W., 43 lks. dist., marked T. 17 S. R. 1 W. S. 31, B. T. Land, mountainous. Soil, clay and gravelly loam; 2nd. rate. Good grass for grazing. Timber, cedar and pinion pine. Mountainous, or heavily timbered land, 40.00 chs.
	West bet. secs. 6 and 31. Over mountainous land, through heavy cedar and pinion pine timber, ascend.
13.00	Top of ridge, 150 ft. above cor. bears N. and S.; descend.
19.50	Bottom of hollow, [same as last crossed] 50 ft. below hollow, course N. 60° E.; ascend.
36.50	Top of ridge, 410 ft. above sec. cor; bears N. and S.; descend.
40.00	Swale, 20 ft. below ridge, course N. E.; ascend. Set a limestone, 18 x 8 x 6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; from which. A cedar, 4 ins. diam., bears N. 28° W., 36 lks. dist., marked 1/4 S. 31, B. T. A cedar, 6 ins. diam., bears S. 47° 30' W., 47 lks. dist., marked 1/4 S. 6. B. T.
44.20	Top of divide ridge bet. valley and cañon on W. 650 ft. above valley, bears N. and S.; descend.
62.40	Leave timber, bears N. and S.
67.90	Bottom of cañon, 250 ft. below ridge, course N. 20° E.; ascend. A trail, bears with cañon.
71.30	Begin steep ascent, bears N. 20° E. and S. 20° W.

South boundary of T. 17 S., R. 1 W.—Concluded.

Chains	
76.25	Ridge, 50 ft. above cañon, bears N. and S.; descend.
83.04	Swale, 40 ft. below ridge, course N. E.; ascend.
106.20	Top of ridge, 100 ft. above hollow; bears N. 15° E. and S. 15° W.; descend.
113.90	Bottom of swale 50 ft. below ridge, course N.; ascend.
117.58	Top of rocky ridge, 50 ft. above swale, bears N. and S.; descend.
132.40	Bottom of long hollow 40 ft. below ridge, course N. E.; ascend.
181.46	Top of ridge, 300 ft. above hollow, bears N. and S.; descend.
197.30	Bottom of hollow; 100 ft. below ridge, course N.; ascend.
202.18	Top of ridge, 40 ft. above hollow, bears N. and S.; descend.
213.10	Hollow; 60 ft. below ridge, course N.; ascend.
246.75	Top of ridge, 250 ft. above hollow; bears N. E. and S. W.; descend.
261.50	To point 39.00 chs. S. of the cor. of Tps. 17 and 18 S., R. 2 W., heretofore described. Set a limestone, 16 x 8 x 4 ins: 10 ins. in the ground, for closing cor: of Tps. 17 and 18 S., R. 1 W., marked C. C. 1 W. on E.; 17 S. on N.; and 18 S. on S.; with 6 grooves on N., E., and S. faces; and raise a mound of stone, 2 ft base, 1½ ft. high., E. of cor. Pits impracticable Land, mountainous Soil, clay and gravelly loam; 2nd. and 3rd rate. Good grass for grazing. Timber, cedar and pinion pine. Mountainous; or heavily timbered land, 261.50 chs.

Boundaries of T. 17 S., R. 1 W.

Line	Designated	True	Distance	Sides N.	Sides S.		
			chs.	chs.	chs.	chs.	chs.
S. bdy	T. 17 S. R. 1 W.	S 88° 29' W.	365.60		9.64		365.48
W. bdy	T. 17 S. R. 1 W.	West	301.50				301.50
W. bdy	T. 17 S. R. 1 W.	North	39.00	39.00			
W. bdy	T. 17 S. R. 1 W.	N. 0° 21' E	446.50	446.49		2.73	
N. bdy	T. 17 S. R. 1 W.	East	285.00			285.00	
N. bdy	T. 17 S. R. 1 W.	N. 88° 30' E.	80.0	2.09		79.97	
N. bdy	T. 17 S. R. 1 W.	S. 89° 39' E.	296.5	1.81		296.49	
E. bdy	T. 17 S. R. 1 W.	South	400.00		400.00		
E. bdy	T. 17 S. R. 1 W.	S. 1° 30' E	80.8		80.77	2.12	
Convergency						.82	
Totals				489.39	490.41	667.13	666.98
					489.39	666.98	
					1.02		
Error in lat.						.15	

This township is rough and mountainous in the southern, eastern, and northern parts, and the remaining portions are partly rolling and partly level. The Sevier River runs through the township from S. E. to N. W.

The mountainous portion of the township is covered with cedar and pinion pine timber. The township should be subdivided.

11 a. m., June 15, 1898.

Scott O. Stewart.
Andrew J. Stewart Jr.
U. S. Deputy Surveyors.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by .....

..... 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 .....

.....

showing the respective capacities in which they acted:

..... *Chainman.*

..... *Chainman.*

..... *Moundman.*

..... *Moundman.*

..... *Axman.*

..... *Axman.*

..... *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

..... United States Deputy Surveyor, in surveying all those parts or portions of the .....

.....

.....

..... of the .....

..... meridian, ... of ....., 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 .....

..... *Chainman.*

..... *Chainman.*

..... *Moundman.*

..... *Moundman.*

..... *Axman.*

..... *Axman.*

..... *Flagman*

.....

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

day of ....., 189

SEAL

E—131

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..., United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from ..... United States Surveyor General for ....., bearing date of the ..... day of ....., 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 Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

.....

.....

.....

..... of the .....

..... meridian, in the ..... of ....., 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 ..... 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.

.....

United States Deputy Surveyor

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

SEAL

.....

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah July 27th 1900.

The foregoing field notes of the survey of the North West & South Bound of Township 17 South Range 1 West of the Salt Lake Base and Meridian, Utah

executed by Scott P. Stewart & Andrew J. Stewart Jr.

under ~~his~~ their contract No. 217, dated November 1, 1897, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Jacob B. Rice

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-257

FIELD NOTES

OF THE SURVEY OF THE

Subdivisions

of

Township 17 South, Range 1 West.

Of the Salt Lake Base and *Meridian,*

In the State of Utah.

AS SURVEYED BY

Scott A. Stewart and Andrew J. Stewart Jr., *United States Deputy Surveyors,*

Under ~~their~~ *Contract No.* 217, *dated* November 1st, *1897.*

Survey commenced June 15th, *1898.*

Survey completed June 23rd, *1898.*

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NAMES AND DUTIES OF ASSISTANTS.

John R. Stewart, Chainman.

Daniel H. Y. McAllister, Chainman.

Wm W. Richardson Jr, Chainman.

Alma Betts, Chainman.

Antone P. Stewart, Moundman.

Peter S. Sorensen, Moundman.

Benjamin F. Stewart, Axman.

Quinby Stewart, Flagman.

For preliminary affidavits see book "A"

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BOOK A-257

INDEX DIAGRAM.

Township 17 South, *Range* 1 West.

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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 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

.....

....., *Chainman.*

....., *Chainman.*

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 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, ..., 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 .....

....., *Flagman.*

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

SEAL

Subdivisions of T. 17 S., R. 1 W. -

Chains. Survey commenced June 15, 1898, and executed with a W. and S. E. Gurley, light mountain transit, No -, 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; and a Buff and Berger transit, No 2511, the horizontal limb is provided with two double verniers reading to single minutes of arc.

The instruments were examined tested on the true meridian at Salt Lake City, found correct, and were approved by the surveyor general for Utah, the former December 4, 1897, and the latter April 5, 1898.

We examine the adjustments of the transits, and correct the level and collimation errors; then to test the solar apparatus, of the Gurley instrument 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, we proceed as follows:

At the reestablished cor. of secs. 1, 2, 35 and 36 latitude 39°17'N., longitude 111°55' W., we set off 39°17'N. on the lat. arc.; 23°22'N. on the decl. arc; and at 5h 1m p. m., l. m. t., determine a true meridian with the solar of the Gurley instrument, and mark a point thereof on a

Chains. stone, firmly set in the ground 5.00 chs. N. of the cor.

June 15, 1898.

June 16, 1898: At 1h 47m a.m., l.m.t., we observe Polaris at eastern elongation with the Buff and Berger instruments in accordance with the manual of instructions and mark a point in the line thus determined on a plug driven in the ground, 5.00 chs N. of our station.

At 6h 20m a.m., l.m.t., we lay off the azimuth of Polaris 1° 36' to the west, on the Buff and Berger instrument, and mark the True Meridian thus determined by cutting a small groove in the stone set June 15, on which the true meridian falls 0.4 ins. east of the mark determined by the solar of the Gurley instrument.

At 6h 30m a.m., l.m.t., we lay off the azimuth of Polaris 1° 36' to the west, on the Gurley instrument and mark the True Meridian thus determined by cutting a small groove in the stone set June 15 on which the true meridian falls 0.4 east of the mark determined by the solar.

At 7h 0m a.m., l.m.t., we set off 39° 17' N., on the lat. arc; 23° 23' N. on the decl. arc; and mark a point in the true meridian determined with the solar, of the Gurley instrument, by a cross on the stone already set 5 chs. N. of our station; this mark falls 0.27 ins. east of the true meridian established by Polaris ob-

Resurvey of Subdivision of T. 17 S., R. 1 W.-

servation.
The solar apparatus, of the Gurley instrument, by p.m., and a.m., observations defines positions for true meridians respectively about 0'22" west and 0'14" east of the meridian established by Polaris observations, therefore we conclude that the adjustments of the instruments are satisfactory.
The magnetic bearing of the true meridian, at 8h 2m a.m. is N. 16° 36' W.; the angle thus determined, reduced by the table page 100 gives the mean mag. decl. 16° 30' E.
Note.- Before commencing with the subdivisions of this township, we find it necessary and resurvey all the old lines adjacent to our work, therefore we proceed as follows:

From the reestablished cor. of secs. 1, 2, 35, and 36, on S. Bdy. of Tp. heretofore described we run
North, on a retracement line bet. secs. 35 and 36.
At 40.00 chs. find no trace of ¼ sec. cor. and at 80.00 chs. find no trace of cor. of secs. 25, 26, 35, and 36; therefore we continue our line north, finding no trace of ¼ sec. or sec. cors; and at 403.86 chs; fall 10.58 chs. E. of cor. of secs. 1, 2, 11, and 12, which is a decayed post.
We destroy all traces of the old cor. and reestablish it at same point as follows:
Set a quartzite stone, 14 x 8 x 8 ins. 9 ins. in the ground, for reestablished cor. of secs. 1, 2, 11, and 12, marked with 5 notches on S. and 1 notch on E. edges;

Chains 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. The falling answers to a correction of 1°30' or 2.11½ chs. W. per mile, and dividing the excess of measurement in the 5 miles makes each mile 80.80 chs., counting from the cor. of secs. 1, 2, 35, and 36.

From the reestablished cor. of secs. 1, 2, 11, and 12 we run.

West, on a retracement line bet. secs. 2 and 11.

At 40.00 chs., find no trace of ¼ sec. cor., and at 80.00 chs., find no trace of cor. of secs. 2, 3, 10, and 11, therefore we continue our line west, finding no trace of ¼ sec. or sec. cors.; and at 240.00 chs. find no trace of cor. of secs. 4, 5, 8, and 9, therefore we set a temp. cor. of secs. 4, 5, 8, and 9, and run, therefore

North, on a retracement line bet. secs. 4 and 5. At 40.00 chs. find no trace of ¼ sec. cor. At 74.57 chs. intersect N. bdy. of Tp. 4.43 chs. N. 88° 30' E. of the reestablished cor. of secs. 4, 5, 32, and 33.

We reestablish these lines on courses corresponding to the other lines in the township. The cor. of secs. 4, 5, 8, and 9 was reestablished after retracing the line bet. secs. 8 and 9, 16 and 17, 20 and 21, 28 and 29, and 32 and 33 and finding said line would justify placing it in the position given.

The course of the line bet. secs. 2 and 11, 3 and 10, 4 and 9 will be S. 88° 30' W., and the miles 80.96, 80.70 and 80.74 respectively in proportion to the old measurements. The course of line bet. secs. 4 and 5 will be N. 1° 30' W. 80.80 Cl

Chains	
	June 16, 1898: At the noon hour the sky is overcast and solar observations are impossible. We now return to the reestablished cor. of secs. 1, 2, 35, and 36 and proceed to resurvey the lines just retraced as follows:
	N. 1° 30' W., on a resurvey line bet secs. 35 and 36.
	Over ridges, and hollows; ascend.
40.40	Find no trace of 1/4 sec. cor. Set a trachyte stone, 14 x 7 x 6 ins., 9 ins. in the ground, for re-established 1/4 sec. cor., marked 1/4 on W. face; and raise a mound of stone, 2 ft. base, 1 1/2 high, W. of cor. Pits impracticable.
	Foot of mountain bears E. and W.; ascend
76.00	Ridge, 150 ft. high, bears E. and W.; descend
80.80	Find no trace of cor. of secs., 25, 26, 35, and 36. Set a quartzite stone, 14 x 12 x 8 ins., 9 ins. in the ground, for reestablished cor. of secs. 25, 26, 35 and 36, marked with 1 notch on S. and 1 notch on E. edges; and raise a mound of stone, 2 ft. base, 1 1/2 high, W. of cor. Pits impracticable. Land, mountainous. Soil clay and gravelly loam 2 nd. rate. Good grass for grazing. No timber. Mountainous land, 40.00 chs.
	N. 1° 30' W., on a resurvey line bet. secs. 25 and 26: Over rolling ground, through scattering cedar timber and

Chains	
	dense undergrowth; descend.
40.40	Find no trace of 1/4 sec. cor. Set a sandstone, 14 x 10 x 8 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.
54.00	Foot of mountain bears N. E. and S. W.
80.80	Find no trace of old cor. of secs. 23, 24, 25, and 26. Set a flint stone, 18 x 12 x 10 ins., 12 ins. in the ground for reestablished cor. of secs. 23, 24, 25, and 26, marked with 2 notches on S. and 1 notch on E. edges; and raise a mound of stone, 2 ft. base 1 1/2 ft. high, W. of cor. Pits impracticable.
	Land, rolling.
	Soil, sandy and gravelly loam; 2nd. rate. Timber scattering cedar.
	Good grass for grazing.
	Land covered with dense undergrowth, 80.80 chs.
	June 16, 1898

June 17, 1898: At 7h. 28m. a. m., l. m. t., we set off 39° 19' N., on the lat. arc, 23° 25' N., on the decl. arc; and determine a true meridian with the solar, at the reestablished cor. of secs. 23. 24. 25 and 26. Thence we run.

North 1° 30' W., on a resurvey line bet. secs. 23 and 24.

Over rolling ground, through dense undergrowth.

40.40	Find no trace of 1/4 sec. cor. Set a quartzite stone, 18 x 10 x 8 12 ins. in the ground for re-established 1/4 sec. cor., marked 1/4

Resurvey of Subdivision of T. 17 S., R. 1 W. – continued.

Chains	
	on W. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
40.50	Centre of wash, 50 lks. wide, 4 ft. deep, course S. 20° W.
80.80	Find no trace of cor. of secs. 13, 14, 23 and 24.
	Set a quartzite stone, 16 x 8 x 8 ins., 11 ins. in the ground, for re-established cor. of secs. 13, 14, 23 and 24, marked with 3 notches on S. and 1 notch on E. edges; dig pits, 18 x 18 x 12 ins., in each sec. 3½ ft. dist.; and raise a mound of stone covered with earth 4 ft. base 2 ft. high, W. of cor.
	Land, nearly level.
	Soil, sandy and clay loam; 1st and 2nd rate.
	Good grass for grazing.
	No timber.
	Undergrowth, sage.
	Land covered with dense undergrowth, 80.80 chs.

	N. 1° 30' W., on a resurvey line bet. secs. 13 and 14.
	Over nearly level land, through dense sage brush.
1.11	Wire fence, bears E. and W. enter J. Bartholomew's enclosed field.
15.0	J. Bartholomew's adobe house bears W. about 4 chs. dist.
16.29	Irrigating ditch 8 lks. wide 3 ins. deep course W.
40.40	Find no trace of ¼ sec. cor.
	Set a quartzite stone, 15 x 9 x 6 ins., 10 ins. in the ground, for reestablished ¼ sec. cor., marked

Resurvey of Subdivision of T. 17 S., R. 1 W. continue

Chains	
	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.
53.00	Wire fence on N. side of enclosed field, bears E. and W.
80.80	Find no trace of cor. of secs. 11, 12, 13 and 14. Set a quartzite stone, 16 x 9 x 8 ins., 11 ins. in the ground for reestablished cor. of secs. 11, 12, 13 and 14, marked with 4 notches on S. and 1 notch on E. 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, nearly level. Soil, sandy and clay loam; 1st, rate. Good grass for grazing. No timber. Under growth, sage. Land covered with dense under-growth. 80:80 chs.
	N. 1° 30' W., on a resurvey line bet. secs. 11 and 12. Over nearly level land, through dense sage brush.
23:90	Wash, 10 ft. deep, 30 lks. wide, course W.
40.40	Find no trace of 1/4 sec. cor. Set a sandstone; 15 x 12 x 6 ins., 10 ins. in the ground, for reestablished 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

Resurvey of Subdivisions of T. 17 S., R. 11 W.—Continued

Chains	
	earth, 3½ ft. base, 1½ high, W. of cor.
69.60	wash, 15 ft. deep, 50 lks wide, course S. 45° W.
80.80	The reestablished cor. of secs. 1, 2, 11, and 12, heretofore described.
	Land, nearly level.
	Soil, sandy and clay loam; 1st. rate.
	Good grass for grazing.
	No timber.
	Undergrowth, sage.
	Land covered with dense undergrowth, 80.80 chs.
	S. 88° 30' W., on a resurvey line bet. secs. 2 and 11.
	Over nearly level land, through dense sage brush.
17.50	Creek, 3 lks. wide, 2 ins. deep, course S. 20° W.
39.25	Enter scattering cedar timber, bears N. and S.; foot of mountain bears N. and S.; ascend.
40.48	Find no trace of ¼ sec. cor. Set a limestone, 16x10x8 ins., 11 ins., in the ground for reestablished ¼ sec. cor., marked ¼ on N. face; from which
	Opinion pine, 10 ins. diam., bears S. 14° E., 42 lks. dist.; marked ¼ S. 11, B. T.
	no other trees within limits.
	and raise a mound of stone, 2 ft. base 1½ ft. high, N. of cor.
65.00	Top of mountain, about 300 ft. above ¼ sec. cor., bears N. and S.; descend.
74.00	Leave cedar timber, bears N. and S.

Resurvey of Subdivision of T. 17 S. R. 1 W. - cont.

Chai	
80.96	Find no trace of cor. of secs. 2, 3, 10 and 11. Set a gray limestone, 18 x 12 x 8 ins., 12 ins. in the ground, for re-established 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, 1½ ft. high, W. of cor. Pits impracticable. Land, mountainous and level. Soil, 1st. half mile clay loam; 1st. rate, 2 nd. half mile clay and gravelly loam; 2 nd. rate. Good grass for grazing. Timber, cedar. Undergrowth, sage brush. Mountainous land, or land covered with dense undergrowth, 80.96 chs.
	S. 88° 30' W., on a resurvey line bet. secs. 3 and 10. Over mountainous land descend.
.25	Hollow; course S. 76° W.
8.00	Top of ridge, 100 ft. above hollow; bears N. 39° E., and S. 39° W.; descend
23.00	Bottom of steep descent, enter sage brush, bears N. and S.
40.35	Find no trace of ¼ sec. cor. Set a grey limestone, 14 x 12 x 6 ins. in the ground, for re-established 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.

Resurvey of Subdivision of T. 17 S. R. 1 W. - Continued

chains	
56.00	Enter heavy cedar timber, bears N. and S., ascend.
65.00	Top of ridge, 50 ft. above base; bears N. and S.; descend
80.70	Find no trace of cor. of secs. 3, 4, 9 and 10. Set a grey limestone, 14 x 12 x 4 ins., 9 ins. in the ground for reestablished cor. of secs. 3, 4, 9 and 10, marked with 5 notches on S., and 3 notches on E. edges; from which
	A cedar, 6 ins. diam., bears N. 34° E., 52 lks. dist., marked T. 17 S., R. 1 W., S. 3, B. T.
	A cedar, 8 ins. diam., bears S. 38° E., 42 lks. dist., marked T. 17 S., R. 1 W., S. 10, B. T.
	A cedar 11 ins. diam., bears S. 34° W., 46 lks. dist., marked T. 17 S., R. 1 W. S. 9 B. T.
	A cedar, 5 ins. diam., bears N. 72° W., 20 lks. dist., marked T. 17 S., R. 1 W. S. 4, B. T.
	Land, mountainous and bare. Soil, clay and gravelly loam, 2nd. rate. Good grass for grazing. Timber, cedar. Undergrowth sage. Mountainous, or heavily timbered land or land covered with dense undergrowth. 80.70 chs.

	S. 88° 30' W., on a resurvey line bet. secs. 4 and 9. Over rolling ground, through heavy cedar timber; descend
4.00	Wash, 3 ft. deep, 10 lks. wide,

Chain	Course S. W.; ascend.
12.50	Ridge, 40 ft. above hollow; bears N. E. and S. W.; descend.
19.00	Wash, 3 ft. deep, 10 lks. wide, in hollow 50 ft. below ridge, course S. W.; ascend.
24.00	Top of ridge, 45 ft. above wash, bears N. and S.; descend.
27.00	Hollow, 30 ft. below ridge, course S. W.; ascend.
31.25	Ridge, 60 ft. above hollow; bears N. and S.; descend.
35.85	Leave cedar timber bears N. and S.; enter dense undergrowth.
37.00	County Road leading from Nephi to Manti, bears N. 10° W. and S. 15° W.
37.20	Wash, 1 ft. deep, 10 lks. wide, cours S. 15° W.
40.37	Find no trace of 1/4 sec. cor. Set a grey limestone, 14 x 9 x 6 ins., 9 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.
45.00	Enter cedar timber, bears N. and S.;
48.00	Top of ridge, 60 ft. above 1/4 sec. cor., bears N. and S.; descend.
50.00	Leave cedar timber, bears N. and S.
51.50	Old country road, bears N. 15° E., and S. 10° W.
67.75	Wash, 15 ft. deep, 110 lks. wide, course S. 20° W.
80.74	Find no trace of cor. of secs. 4, 5, 8 and 9. Set a grey limestone, 14 x 10 x 8 ins. 9 ins. in the ground for re-established cor. of secs. 4, 5, 8 and 9

Chains	
	marked with 5 notches on S. and 4 notches on E. 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, mountainous and level.
	Soil, clay loam and gravelly; 2nd. rate.
	Good grass for grazing.
	Timber, cedar.
	Undergrowth, sage.
	Mountainous, or heavily timbered land, or land covered with dense undergrowth, 80.74 chs.
	N. 1° 30' W., on a resurvey line bet. secs. 4 and 5:
	Over rolling ground, through dense sage undergrowth; ascend.
14.30	Top of sharp rocky ridge, 50 ft. above sec. cor., bears E. and W.; descend.
37.55	Old county road bears N. 30° W., and S. 30° E., ascend.
40.40	Top of ridge bears E. and W. Find no trace of 1/4 sec. cor. Set a trachyte stone, 20 x 14 x 6 ins., 15 ins. in the ground, for re-established 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.
73.00	Wash, 6 ft. deep, 50 lks. wide, course S. W.
80.80	The reestablished cor. of secs. 4, 5, 32 and 33.

Land, level and mountainous.
Soil clay and gravelly loam, 2nd. rate.
Good grass for graging.
No timber.
Undergrowth, sage.
Mountainous land or land covered with dense undergrowth, 80.80 chs.

June 17, 1898.

June 18, 1898: At 7h. 32m a. m., l. m. t., we set off 39°18' N. on the lat. arc., 23°27' N. on the decl. arc; and determine a true meridian with the solar at the reestablished cor. of secs. 25; 26, 35 and 36 thence we run

East, on a retracement line bet. secs. 25 and 36.

40.00 Find no trace of 1/4 sec. cor.

83.27 The reestablished cor. of secs. 25; 30, 31 and 36 heretofore described bears N. 2.18 chs. dist.

Thence we run.

S. 88° 30' W., on a resurvey line bet. secs 25 and 36.

Over mountainous land, through scattering cedar and pinion pine timber; descend.

3.00 Wood road, bears N. 10° E. and S., in bottom of hollow; 100 ft. below cor., course S.; ascend.

7.00 Top of ridge, 200 ft. above hollow bears N. 10° E. and S. 10° W.; descend.

41.65 Find no trace of 1/4 sec. cor.

Set a conglomerate stone, 18 X 10 X 10 ins., 12 ins. in the ground, for reestablished 1/4 sec. cor.,

Subdivision of T. 1 S., R. 1 W. - Continued.

marked 1/4 on N. face; from which
A cedar, 12 ins. diam., bears N. 85° W., 50 lks. dist., marked 1/4 S. 25 B.T.
A cedar, 10 ins. diam., bears S. 30 lks. dist. marked 1/4 S. 36, B.T.

83.30 The reestablished cor. of secs. 25, 26, 35, and 36
Land, mountainous.
Soil, clay and gravelly loam.
Timber, scattering cedar and pinion pine.
Good grass for grazing.
Mountainous land, 83.30 chs.

Note: Being unable to find the 1/4 sec. cor. bet. secs. 24 and 25.
We run from cor. of secs. 23, 24, 25 and 26 N. 88° 30' E., on a resurvey line bet. the W. halves of secs. 24 and 25.
We run this line parallel to the line bet. secs. 25 and 36 in order to establish the 1/4 sec. cor. as near as possible in its original position.
Over nearly level land, through scattering cedar and pinion pine timber; ascend gradually.

20.00 Foot of mountain, bears N. 10° E. and S. 30° W.; ascend.

40.00 Find no trace of old 1/4 sec. cor.
Set a limestone, 18 x 10 x 5 ins., 12 ins. in the ground, for reestablished 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.

Subdivision of T. 17 S., R. 1 W. - Continued

chain	
	Sand, mountainous and nearly level. Soil, clay loam and gravelly; 2nd and 3rd rate. Timber, scattering cedar and pinion pine. Good grass for grazing. Mountainous land, 20.00 chs.
	East, on a random line bet. the E. halves of secs. 24 and 25.
45.40	Intersect the E. bdy. of Tp. or Salt Lake Meridian at the cor. of secs. 19, 24, 25, and 30. Thence we run. West, on a true line bet. the E. halves of secs. 24 and 25. Over mountainous land, through scattering cedar and pinion pine timber; ascend.
8.00	Top of spur, 100 ft. above cor., bears N. and S.; descend.
25.00	Bottom of hollow, 150 ft. below ridge, course S. 60° W.; ascend.
40.00	Top of ridge, 75 ft. above hollow, bears N. E. and S. W.; descend.
45.40	The ¼ sec. cor. bet. secs. 24 and 25. Sand, mountainous. Soil, black loam and gravelly; 1st and 3rd rate. Timber, cedar and pinion pine. Good grass for grazing. Mountainous land, 45.40 chs.
	Note: Being unable to find the ¼ sec. cor. bet. secs. 13 and 24. We run from cor of secs. 13, 14, 23 and 24.

Subdivision of T. 17 S., R. 1 W.- Continued.

chains.	N. 88° 30' E., on a resurvey line bet. the W. halves of secs. 13 and 24. For reasons already explained. Over rolling valley land, through scattering undergrowth.
39.00	Water ditch, 3 lks. wide, 2 ins. deep, course N. 85° W.
c 40.00	Find no trace of old ¼ sec. cor. Set a sandstone, 16 x 10 x 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. Sand, nearly level. Soil, clay loam; 2nd rate. No timber. Undergrowth, sage brush and shadscales. Good grass for grazing.
	Note: Knowing from former connections that the line bet. the E. halves of secs. 13 and 24 will not intersect the Salt Lake Meridian within the limits, we run East, on a true line bet. the E. halves of secs. 13 and 24. Over mountainous land, through scattering cedar and pinion pine timber.
7.00	Foot of mountain, bears N. W. and S. 60° E.; ascend abruptly over ledges.
45.00	Top of spur, 500 ft. above ¼ sec. cor., bears N. and S.; descend.

Subdivision of T. 17 S., R. 1 W.-Con-

Chains.	
47.46	Intersect E. bdy. of Tp. on Salt Lake Meridian, 1.08 chs. N. of the cor. of secs. 13, 18, 19, and 24. Set a sandstone, 18 x 10 x 6 ins., 12 ins. in the ground, for ing cor. of secs. 13 and 24, ed C. C. on W.; with 3 grooves on N. and S. faces; and raise a mound of stone, 2 ft. base, 1½ high, W. of cor. Pits impractic able.
	Note: We destroy all marks on the cor. of secs. 13, 18, 19, and 24, which pertain to secs. 13 and 24.
	Land, mountainous, (very rough,) and nearly level. Soil, clay loam and rocky; 2nd and 4th rate.
	Timber, cedar and pinion pine.
	Good grass for grazing.
	Mountainous land, 47.46 chs.
	For reasons already explained, we run from cor. of secs. 11, 12, 13, and 14. N. 88° 30' E., on a resurvey line bet. the W. halves of secs. 12 and 13. Over nearly level valley land, through dense under-growth.
20.00	Creek, 10 lks. wide, 2 ins. deep, rapid current, rocky bottom, course S. W.
21.00	Old road, bears N. E. and S. W.
30.00	Foot of mountain, bears N. 10° E. and S. 10° W. Enter scattering timber, bears N. 10° E. and S. 10° W.; ascend.

Subdivision of T. 17 S., R. 1 W. - Continued.

chains.	
40.00	Find no trace of old ¼ sec. cor. Set a hard sandstone, 16 x 10 x 5 ins. 11 ins. in the ground, for ¼ sec. cor., marked 4 on N. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable. Sand, mountainous and level. Soil, clay loam; 2nd rate. Timber, cedar and pinion pine. Undergrowth, sagebrush and shadscales. Good grass for grazing. Mountainous land, or land covered with dense under-growth, 40.00 chs.
	For reasons already explained, we run East, on a true line bet. the E. ½ of secs. 12 and 13. Over mountainous land, through scattering cedar and pinion pine timber; ascend.
49.50	Intersect E. bdy. of Tp. or Salt Lake Meridian, 2.16 chs. N. of the cor. of secs. 7, 12, 13, and 18. Set a sandstone, 16 x 10 x 5 ins., 11 ins. in the ground, for closing cor. of secs. 12 and 13, marked C. C. on W.; with 2 grooves on N. and 4 grooves on S. faces; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.

Subdivision of T. 17 S., R. 1 W.- Continued.

Note: We destroy all marks
on the cor. of secs. 7, 12, 13, and 18,
which pertain to secs. 12 and 1
and, mountainous.
Soil, gravelly loam; 2nd rate.
Timber, cedar, and pinion.

Good grass for grazing.
Mountainous land, 79.50 chs.
June 18, 1898: At this cor., we set
23°26' N., on the decl. arc; and
at 0h 3m p.m., l.m.t., observe
the sun on the meridian,
the resulting lat. is 39°21' N.

From cor. of secs. 1, 2, 11, and 12 We run
East, on a random line bet. secs. 1 and 11
36.00 Find no trace of foot of mountain cor.
40.00 Set temp. ¼ sec. cor.
1.58 Intersect E. bdy. of Tp. or Salt
Lake Meridian 2.59 chs. N. of the
of secs. 1, 6, 7, and 12,
Set a limestone, 15 x 9 x 8 ins., 10 ins.
in the ground, for closing
of secs. 1 and 12, marked C.C.
on W.; with 1 groove on N. and
5 grooves on S. faces; and raise
a mound of stone, 2 ft. base,
1½ ft. high, W. of cor. Pits impract-
icable.
Note: We destroy all marks on
the cor. of secs. 1, 6, 7, and 12, which
pertain to secs. 1 and 12.
Thence we run
West, on a true line bet. secs.
1 and 12.
Over mountainous land,
through scattering timber;
descend.
40.00 Set a sandstone, 19 x 12 x 6 ins.,

Subdivision of T. 17 S., R. 1 W.—Continued.

chains	
	13 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	Foot of mountain, 600 ft. below sec. cor., bears N. and S.; thence across valley. Leave timber, bears N. and S.
91.58	The cor. of secs. 1, 2, 11, and 12.
48 / 43.58	Land, mountainous and nearly level. Soil, gravelly and clay loam; 2nd rate. Timber, cedar and pinion pine. Good grass for grazing. Mountainous land, 48.00 chs.
	North, on a random line bet. secs. 1 and 2.
27.00	Find no trace of foot of mountain cor.
40.00	Set temp. ¼ sec. cor.
77.00	Intersect N. bdy. of Tp. 11. 60 chs. S. 89° 39' W., from the cor. of secs. 1, 2, 35, and 36. The falling is out of limits, therefore we Set a hard sandstone, 24 x 10 x 10 ins. 18 ins. in the ground, for closing cor. of secs. 1 and 2, marked C. C. on S.; with 1 groove on E. and 5 grooves on W. faces; from which
	Cedar, 8 ins. diam., bears S. 65° E., 29 lks. dist., marked T. 17 S., R. 1 W., S. 1, B. T.
	Cedar, 12 ins. diam., bears S. 4° W., 9 lks. dist., marked T. 17 S., R. 1 W., S. 2, B. T.

Subdivision of T. 17 S., R. 1 W.- Continued.

	Note: We destroy all marks on the cor. of secs. 1, 2, 35, and 36, which pertain to secs. 1 and 2.
	From cor. we run South, on a true line bet. secs. 1 and 2.
	Over rolling land, through scattering cedar and pinion pine timber and dense undergrowth.
10.00	Foot of mountain, bears N. 10° E. and S. 30° W.; enter Sittle Valley.
37.00	Set a sandstone, 16 x 9 x 8 ins. 11 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. Scare scattering timber, bears E. and W.
41.00	Wash in Sittle Valley, 30 lks. wide, 10 ft. deep, course S. 20° W.
77.00	The cor. of secs. 1, 2, 11, and 12. Sand, rolling. Soil, clay loam; 2nd rate. Timber, scattering cedar and pinion pine. Undergrowth, sage brush and shadscales. Good grass for grazing. Sand covered with dense undergrowth, 77.00 chs.

From cor. of secs. 2, 3, 10, and 11, we run North, on a random line bet. secs. 2 and 3.

10.00 Find no trace of foot of mountain cor.

40.00 Set temp. ¼ sec. cor.

78.00 Intersect N. bdy. of Tp. 12.52 chs. S. 53° 39' W. from the cor. of secs. 2, 3, 34, and 35.

Set a hard sandstone, 18 x 12 x 4 ins.

Subdivision of T. 17 S., R. 1 W. - Continued.

chains	
	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; from which
	A cedar, 12 ins. diam., bears S. 61° E., 31 lks. dist., marked T. 17 S., R. 1 W., S. 2, B. T.
	A cedar, 12 ins. diam., bears S. 1 2° W., 26 lks. dist., marked T. 17 S., R. 1 W., S. 3, B. T.
	Note: We destroy all marks on the cor. of secs. 2, 3, 34, and 35, which pertain to secs. 2 and 3.
	Thence we run South, on a true line bet. secs. 2 and 3.
	Over mountainous land, through heavy timber; descend.
9.00	Bottom of hollow, 150 ft. below cor., course S. W.; ascend.
21.50	Top of ridge, 200 ft. above hollow, bears N. 70° E. and S. 70° W.; descend.
38.60	Set a sandstone, 20 x 10 x 6 ins., 15 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; from which
	A pinion pine, 8 ins. diam., bears N. 50° E., 14 lks. dist., marked ¼ S 2, B. T.
	A pinion pine, 12 ins. diam., bears N. 59° W., 12 lks. dist., marked ¼ S. 3, B. T.
46.25	Bottom of hollow, 250 ft. below ridge, course S. W.; ascend.
60.00	Top of spur, 100 ft. above hollow, bears N. 10° E. and S. 10° W.; descend.
78.50	Bottom of hollow, 100 ft. below ridge, course S. 70° W.; ascend.
78.60	The cor. of secs. 2, 3, 10, and 11. Sand; mountainous.

Subdivision of T. 17 S., R. 1 W.- Continued.

chains. Soil, clay loam; 2nd rate.
Timber, cedar and pinion pine.
Good grass for grazing.
Mountainous or heavily timbered land, 78.60 chs.
June 18, 1898.

June 20, 1898: At 7h 30m a.m., lmt, we set off 39°22' W., on the lat. arc, 23°28' N., on the decl. arc; and determine a true meridian with the solar at the cor. of secs. 3, 4, 9, and 10.
Thence we run
North, on a random line bet. secs. 3 and 4.
26.00 Find no trace of foot of mountain cor.
40.00 Set temp. 1/4 sec. cor.
80.20 Intersect N. bdry. of Tp. 13, 77 chs. S. 89°39' W., from the cor. of secs. 3, 4, 33, and 34.
Set a hard sandstone, 18x10x3 ins., 12 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; from which
A cedar, 20 ins. diam., bears S. 60° E., 23 lks. dist., marked T. 17 S., R. 1 W., S. 3, B. T.
A cedar, 8 ins. diam., bears S. 5° W., 38 lks. dist., marked T. 17 S., R. 1 W., S. 4, B. T.
Note: We destroy all marks on the cor. of secs. 3, 4, 33, and 34, which pertain to secs. 3 and 4.
Thence we run
South, on a true line bet. secs. 3 and 4.
Over mountainous land,

chains.	
	through dense undergrowth; ascend.
10.00	Enter scattering cedar and pinion pine timber, bears N. W. and S. E.
15.00	Top of ridge, 200 ft. above cor., bears N. W. and S. E.; descend.
18.00	Bottom of hollow, 75 ft. below ridge, course S. W.; ascend.
23.00	Top of ridge, 80 ft. above hollow, bears N. E. and S. W.; descend.
40.20	Set a hard sandstone, 19 x 12 x 10 ins., 13 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; from which A cedar, 12 ins. diam., bears N. 57° 30' E., 35 lks. dist., marked ¼ S. 3, B. T. A cedar, 8 ins. diam., bears S. 38° W., 83 lks. dist., marked ¼ S. 4, B. T.
43.50	Bottom of hollow, 50 ft. below ridge, course W.; ascend.
50.00	Top of spur, 100 ft. above hollow, bears N. 70° W. and S. 70° E.; descend.
68.50	Bottom of hollow, 300 ft. below ridge, course S. W.; ascend.
75.00	Top of ridge, 100 ft. above hollow, bears N. E. and S. 80° W.; descend.
80.20	The cor. of secs. 3, 4, 9, and 10. Sand, mountainous. Soil, clay loam; 2nd rate. Timber, cedar and pinion pine. Undergrowth, sage-brush. Good grass for grazing. Mountainous land, or land covered with dense under-growth, 80.20 chs.

Subdivision of T. 17 S., R. 1 W. - Continued.

From the cor. of secs. 4, 5, 32, and 33, on S. bdy. of Tp. heretofore described, we run
North, on a retracement line bet. secs. 32 and 33.
at 40.00 chs., find no trace of sec. cor. and at 80.00 chs. find no trace of the cor. of secs. 28, 29, 32, and 33; therefore we continue our line north, failing every instance to find cors. and at 403.80 chs., we fall at a point 10.58 chs. E. of cor. of secs. 4, 5, and 9; the falling answers to a correction of 1°30' or 2.11 chs. W. per mile, counting from the cor. of secs. 4, 5, 32, and 33, the length of each mile will is 80.80 chs., except mile bet. secs. 8 and 9 one-tenth the old measurement.
we run
S. 1°30' E., on a resurvey line bet. secs. 8 and 9.
Over rolling land, through scattering undergrowth.
5.50 Wash, 5 ft. deep, 10 lks. wide, S. W.
30.00 A bend in the Sevier River bears W. 100 lks. dist.
40.32 Find no trace of old sec. cor. Set a blue limestone, 14 x 9 x 5 ins. 9 ins. in the ground, for re-established ¼ sec. cor., ¼ on W. face; dig pits, 18 x 18 x 12' N. and S. of stone, 3 ft. dist., raise a mound of earth, 2 ft. base, 1½ ft. high, W. of cor.
+ c 80.74 Find no trace of the cor. of secs. 8, 9, 16, and 17.
Set a limestone, 18 x 10 x 5 ins., 12 ins. in the ground, for

Subdivision of T. 17 S., R. 1 W. - Continued.

chains	
	reestablished cor. of secs. 8, 9, 16, and 17, marked with 4 notches on S. 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. ×
	Sand, rolling.
	Soil, clay loam; 2nd rate.
	No timber.
	Undergrowth, sagebrush and greasewood.
	Good grass for grazing.
	June 20, 1898: At this cor., we set off 23°27' N., on the decl. arc; and at 11h 56m a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 39°21' N.
	S. 1°30' E., on a resurvey line bet. secs. 16 and 17.
	Over rolling hatley, through scattering undergrowth.
35.75	Wash, 10 lks. wide, 3 ft. deep, course W.
40.40	Find no trace of old ¼ sec. cor., Set a sandstone, 16x10x4 ins., 11 ins. in the ground, for reestablished 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.
65.84	Right bank of Server River, course N. 80° W.
68.00	Left bank of Server River, course N. 80° W.
80.80	Find no trace of old cor. of

Subdivision of T. 17 S., R. 1 W.-Continued.

chains. secs. 16, 17, 20, and 21.
Set a sandstone, 14x12x4 ins., 9 ins. in the ground, for reestablished cor. of secs. 16, 17, 20, and 21, marked with 3 not on S. and 4 notches on E. edges; dig pits, 18x18x12 ins., in sec.; 5½ ft. dist., and a mound of earth, 4 ft. base, ft. high, W. of cor.
Sand, rolling.
Soil, clay loam; 2nd rate.
No timber.
Undergrowth, sagebrush, and shadscales.
Good grass for grazing.

S. 1° 30' E., on a resurvey line bet. secs. 20 and 21.
Over rolling land, - scattering timber and undergrowth; ascend -
10.00 Foot of mountain bears N. W. and S. E.; ascend.
40.40 Find no trace of old ¼ sec. cor. Set a trachyte stone, 24x10x6 18 ins. in the ground, for tablished ¼ sec. cor., marked ¼ on W. face; from which
a pinion pine, 12 ins. bears S. 80° E., 50 lks. dist., marked ¼ S. 21, B. T.
a pinion pine, 10 ins. bears S. W., 40 lks. dist., ed ¼ S. 20, B. T.
50.00 Top of ridge, 75 ft. above ¼ sec. or., bears N. E. and S. W.;
66.00 Bottom of hollow, 140 ft. ridge, course N. 60° E.; ascend.

Subdivision of T. 17 S., R. 1 W.- Continued.

chains	
80.80	Find no trace of the cor. of secs. 20, 21, 28, and 29.
100.00	Set a limestone, 20x14x10 ins., 15 ins. in the ground, for reestablished cor. of secs. 20, 21, 28, and 29, marked with 2 notches on S. and 4 notches on E. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. Sand, rolling mountains. Soil, clay loam and gravelly; 2nd and 3rd rate. Timber, scattering cedar and pinion pine. Undergrowth, sagebrush and shadscales. Good grass for grazing. Mountainous land 70.80 chs.
	S. 1° 30' E., on a resurvey line bet. secs. 28 and 29. Over mountainous land, through scattering undergrowth; ascend.
82.00	Top of ridge, 175 ft. above sec. cor., bears N. 60° W. and S. 60° E.; descend.
89.75	Bottom of hollow, 130 ft. below ridge, course E.; ascend.
40.40	Find no trace of old ¼ sec. cor., set a limestone, 16x10x6 ins., 11 ins. in the ground, for reestablished 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.
47.00	Wood road on top of ridge, 100 ft. above hollow, bears E. and W.; descend.

Chains	
63.50	Bottom of hollow, 120 ft. below ridge, course E.; ascend.
80.80	Top of ridge, 100 ft. above hollow, bears E. and W. Find no trace of the cor. of secs. 28, 29, 32, and 33. Set a limestone, 20 x 12 x 12 ins., 15 ins. in the ground, for reestablished cor. of secs. 28, 29, 32, and 33, marked with 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. Pits impracticable. Sand, mountainous. Soil, gravelly loam; 2nd rate. No timber. Undergrowth, sagebrush. Good grass for grazing. Mountainous land, 80.80 chs.
	S. 1° 30' E., on a resurvey line bet. secs. 32 and 33. Over mountainous land, through scattering cedar and pinion pine timber; descend.
20.00	Bottom of hollow, 150 ft. below cor., course E.; ascend.
40.40	Find no trace of old ¼ sec. cor., set a limestone, 20 x 12 x 10 ins., 15 ins. in the ground, for reestablished 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.
80.80	The cor. of secs. 4, 5, 32, and 33. Sand, mountainous.

Subdivision of T. 17 S., R. 1 W.—Continued.

chains	
	Soil, gravelly loam; 2nd rate. Timber, scattering cedar and pinion pine. Good grass for grazing. Mountainous land, 80.80 chs June 20, 1898.
	June 21, 1898: At 8h 1m a.m., l.m.t., we set off 89° 17' N., on the lat. arc; 23° 28' N., on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 5, 6, 31, and 32, as heretofore described. Thence we run North, bet. secs. 31 and 32. Over mountainous land, through scattering cedar and pinion pine timber; descend.
16.25	Bottom of cañon, 50 ft. below cor., course E.; ascend.
38.50	Top of spur, 150 ft. above cañon, bears E. and W.; descend.
40.00	Set a limestone, 15 x 10 x 5 ins., 10 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; from which A cedar, 6 ins. diam., bears N. 25° E., 62 lks. dist., marked ¼ S. 32, B. T. A pinion pine, 6 ins. diam., bears N. 83° 30' W., 85 lks. dist., marked ¼ S. 32, B. T.
62.00	Bottom of hollow, 150 ft. below ridge, course N. 80° E.; ascend.
72.00	Scave timber, bears E. and W.
80.00	Set a quartzite stone, 20 x 14 x 12 ins., 15 ins. in the ground, for cor. of secs. 29, 30, 31, and 32, marked

chains	
	with 1 notch on S. and 5 notches on E. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. Sand, mountainous. Soil, clay and gravelly loam; 2nd rate. Timber, scattering cedar and pinion pine. Good grass for grazing. Mountainous land, 80.00 chs.
	Note: Being unable to find the ¼ sec. cor. bet. secs. 29 and 32, we proceed to establish it as near as possible in its original position. Therefore we run S. 88° 30' W., on a resurvey line bet. the E. halves of secs. 29 and 32. from the cor. of secs. 28, 29, 32, and 33. Over rolling mountains, through scattering timber and undergrowth; descend along top of ridge.
16.00	Bottom of hollow, 80 ft. below sec. cor., course N. E.; ascend.
40.00	Find no trace of old ¼ sec. cor., Set a quartzite stone, 16 x 10 x 5 ins., 11 ins. in the ground, for re-established 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. Sand, mountainous. Soil, gravelly; 3rd rate. Timber, scattering cedar and pinion pine. Undergrowth, sage brush. Good grass for grazing. Mountainous land, 40.00 chs.

Subdivision of T. 17 S., R. 1 W.- Continued.

chains	
	Note: Knowing from lines already run, that the line bet. the W. halves of secs. 29 and 32 will not close within limits, we run West, on a true line bet. the W. halves of secs. 29 and 32, Over mountainous land, through scattering timber and undergrowth; ascend.
17.50	Top of spur, 60 ft. above ¼ sec. cor., bears N. and S.; descend.
22.50	Leave timber, bears N. and S.
36.13	Intersect N. and S. line, 76 lks N. of the cor. of secs. 29, 30, 31, and 32. Set a sandstone, 16x9x8 ins., 11 ins in the ground, for closing cor. of secs. 29, and 32, marked C. C. on E.; with 1 groove on S. and 5 grooves on E. faces; and raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. Pits impracticable.
	Note: We destroy all marks on the cor. of secs. 29, 30, 31, and 32, which pertain to secs. 29 and 32.
	Land, mountainous.
	Soil, gravelly loam; 2nd rate.
	Timber, scattering cedar and pinion pine.
	Undergrowth, sagebrush.
	Good grass for grazing.
	Mountainous land, 36.13 chs.
	Note: Knowing from connections already made, that the line bet. secs. 30 and 31, will not intersect the W. bdy. of Tp.

Chains	
	within limits, we run West, on a true line bet. secs. 30 and 31, from the cor. of secs. 30 and 31. Over mountainous land, through scattering undergrowth; ascend.
10.00	Enter scattering cedar and pinion pine timber; bears N. and S.
21.20	Foot of perpendicular cliff, 15 ft. high, bears N. 20° E. and S. 20° W.
35.50	Top of ridge, 800 ft. above sec. cor., bears N. 40° E. and S. 40° W.; descend.
36.50	Top of perpendicular cliff, 35 ft. high, bears N. 40° E. and S. 40° W.
40.00	Set a gray limestone, 16 x 12 x 4 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which A pinion pine, 6 ins. diam., bears N. 20° E., 110 lks. dist., marked ¼ S. 30, B. T. No other trees within limits; raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
70.00	Wood road, bears N. E. and S. W., in bottom of cañon, 300 ft. below ridge, course N. E.; ascend.
129.50	Top of ridge, 400 ft. above cañon, bears N. 25° E. and S. 25° W.; descend.
158.00	Bottom of hollow, 250 ft. below ridge, course N. 20° E.; descend.
190.00	Top of ridge, 400 ft. above hollow, bears N. 30° E. and S. 30° W.; descend.
213.00	Bottom of cañon, 250 ft. below ridge, course N. 10° E.; ascend.
238.00	Top of ridge, 150 ft. above hollow, bears N. 30° E. and S. 30° W.; descend.
250.00	Bottom of cañon, 120 ft. below

chains.	
	ridge, course N. 60° E.; ascend.
261.06	Intersect W. bdy. of Tp. 1.09 chs. N. 0°21' E. of the ¼ sec. cor. on E. side of sec. 36, T. 17 S., R. 2 W.
	Set a limestone, 18 x 18 x 6 ins., 12 ins in the ground, for closing cor. of secs. 30 and 31; marked C. C. on E.; with 5 grooves on N. and 1 groove on S. faces; from which
	A mahogany, 7 ins. diam., bears N. 40½° E., 80 lks. dist., marked T. 17 S., R. 1 W., S. 30, B. T.
	No other trees within limits; raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor.
	Pits impracticable.
	Sand, mountainous.
	Soil, gravelly loam and rocky; 2nd and 4th rate.
	Timber, cedar, and pinion pine.
	Undergrowth, sage and oak brush.
	Good grass for grazing.
	Mountainous land, 261.06 chs.
	June 21, 1898; At the noon hour, the sky is overcast and solar observations are impossible.
	North, bet. secs. 29 and 30, from the cor. of secs. 30 and 31.
	Over rolling mountains, through dense undergrowth; descend gently.
.76	The closing cor. of secs. 29 and 32.
22.50	Enter scattering cedar timber, bears E. and W.
33.70	Wagon road, bears E. and W. on ridge)
38.00	Wash, 20 lks. wide, 4 ft. deep,

Subdivision of T. 17 S., R. 1 W. - Continued.

course N. 80° E.; ascend.

40.00 Set a limestone, 24x10x8 ins., 18 in the ground, for ¼ sec. cor., marked ¼ on W. face; from which

a cedar, 6 ins. diam., bears N. 6° E., 150 lks. dist., marked ¼ S. 29, B.

a cedar, 5 ins. diam., bears S. 48° W., 130 lks. dist., marked ¼ S. 30, B. T.

74.00 Top of ridge, 200 ft. above ¼ sec. cor., bears E. and W.

80.00 Set a limestone, 20x12x8 ins., 15 ins. in the ground, for cor. of secs. 19, 20, 29, and 30, marked with 2 notches on S. and 5 notches E. edges; from which

a cedar, 8 ins. diam., bears N. 82° E., 98 lks. dist., marked T. 17 S., R. 1 W., S. 20, B. T.

a cedar, 8 ins. diam., bears S. 48° E., 48 lks. dist., marked T. 17 S., R. 1 W., S. 29, B. T.

a cedar, 4 ins. diam., bears S. 80° W., 143 lks. dist., marked T. 17 S., R. 1 W., S. 30, B. T.

a cedar, 5 ins. diam., bears N. 16° W., 92 lks. dist., marked T. 17 S., R. 1 W., S. 19, B. T.

Sand, rolling.
Soil, clayloam; 1st rate.
Timber, cedar.
Undergrowth, oak and sage
good grass for grazing.
Mountainous land, or land with dense undergrowth, 80.00 chs.

Note: Being unable to find

Subdivision of T. 17 S., R. 1 W. - Continued.

chains.	
	the ¼ sec. cor., bet. secs. 20 and 29, we run for reasons already explained from cor. of secs. 20, 21, 28, and 29, S. 88° 30' W., on a resurvey line bet. the E. halves of secs. 20 and 29. Over mountainous land, through scattering timber and undergrowth; ascend.
30.50	Top of ridge, 60 ft. above sec. cor., bears N. E. and S. W.; descend.
35.50	Bottom of hollow, 30 ft. below ridge, course N. E.; ascend.
40.00	Find no trace of old ¼ sec. cor. Set a limestone, 20 x 10 x 6 ins., 15 ins. in the ground, for re-established ¼ sec. cor., marked ¼ on N. face; from which cedar, 3 ins. diam., bears N. 72° E., 25 lks. dist., marked ¼ S. 20, B. T. cedar, 8 ins. diam., bears S. 10° E., 50 lks. dist., marked ¼ S. 29, B. T. Sand, rolling. Soil, clay and gravelly loam; 2nd rate. Timber, scattering cedar. Undergrowth, sage brush. Good grass for grazing. Mountainous land, 40.00 chs
	For reasons already explained, we run west, on a true line bet. the W. halves of secs. 20 and 29. Over mountainous land, through scattering timber and undergrowth; ascend.
20.70	Top of rocky ridge, 400 ft. above

Subdivision of T. 17 S., R. 1 W. - Continued

¼ sec. cor., bears N. and S.; des
-35.87 ntersect N. and S. line, 1.50 chs. N.
the cor. of secs. 19, 20, 29, and 30.
Set a sandstone, 15 x 12 x 7 ins.,
10 ins. in the ground, for clos-
ing cor. of secs. 20 and 29, x
C. C. on E.; with 2 grooves on
5 grooves on E. faces; and
raise a mound of stone, 2 ft.
base, 1½ ft. high, E. of cor.
Pits impracticable.
Note: We destroy all marks
the cor. of secs. 19, 20, 29, and 3
pertain to secs. 20 and
29.
Sand, mountainous.
Soil, clay and gravelly loam
and rocky; 2nd and 4th rate.
Timber, scattering cedar.
Undergrowth, sage and
oak brush.
Good grass for grazing.
Mountainous land, 35.87 chs.

For reasons already explain
, we run
West, on a true line bet. secs.
19 and 30, from the cor. of secs.
19 and 30.
Over mountainous land,
scattering timber
and undergrowth;
2.00 Bottom of hollow, 50 ft. below
sec. cor., course N. E.; ascend,
5.00 Foot of perpendicular cliff,
20 ft. high, bears N. and S.
40.00 Set a limestone, 16 x 6 x 6 ins.,
11 ins. in the ground, for ¼ sec.
cor., marked ¼ on N. face;

Subdivision of T. 17 S., R. 1 W.-Continued.

chains	from which
	a pinion pine, 6 ins. diam., bears N. 40° E., 38 lks. dist., marked 4 S. 19, B. T.
	a pinion pine, 4 ins. diam., bears S. 30° W., 50 lks. dist., marked 4 S. 30, B. T.
50.00	Top of ridge, 800 ft. above hollow, bears N. 10° W. and S. 10° E.; descend.
82.00	Bottom of hollow, 250 ft. below ridge, course N. 10° W.; ascend.
121.50	Top of ridge, 300 ft. above hollow, bears N. 10° E. and S. 25° W.; descend.
157.00	Bottom of hollow, 400 ft. below ridge, course N.; ascend.
187.00	Top of ridge, 350 ft. above hollow, bears N. 25° E. and S. 40° W.; descend.
226.00	Bottom of hollow, 200 ft. below ridge, course N. 40° E.; ascend.
243.00	Top of ridge, 450 ft. above hollow, bears N. 40° E. and S. 50° W.; descend.
260.26	Intersect W. bdy. of Tp. 1.16 chs. N. 0° 21' E., of the 4 sec. cor., on E. side of sec. 25, T. 17 S., R. 2 W.
	Set a limestone, 18 x 9 x 7 ins., 12 ins. in the ground, for closing cor. of secs. 19 and 30, marked C. C. on E.; with 4 grooves on N. and 2 grooves on S faces; dig pits, 24 x 18 x 12 ins., cross-wise on each line N. and S., 3 ft., and E. of stone, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, E. of cor.
	Sand, mountainous.
	Soil, gravelly loam and rocky; 2nd and 4th rate.
	Timber, cedar and pinion pine.
	Undergrowth, oak and

chains	
	sagebrush.
	Good grass for grazing.
	Mountainous land, 260.26 chs.
	June 21, 1898.

June 22, 1898: At 8h 3m a.m., l.m.t., we set off 39°19' N., on the lat. arc; 23°27½' N., on the decl. arc; and determine a true meridian with the solar at the cor. of secs. 19 and 30. Thence we run North, bet. secs. 19 and 20. Over mountainous land, through dense undergrowth and scattering cedar timber, ascend.

chains	
1.50	The closing cor. of secs. 20 and 29.
17.50	Bottom of hollow, 115 ft. below ridge, course N. 35° E.; ascend.
40.00	Top of ridge, 180 ft. above hollow, bears N. E. and S. W.; descend. Set a gray limestone, 18 x 10 x 5 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; from which
	A cedar, 4 ins. diam., bears S. 30° E., 46 lks. dist., marked ¼ S. 20, B. T.
	No other trees within limits; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
57.50	Wash, 20 lks. wide, 3 ft. deep, in bottom of hollow, 400 ft. below ridge, course N. E.; ascend.
80.00	Set a limestone, 20 x 14 x 12 ins., 15 ins. in the ground, for cor. of secs. 17, 18, 19, and 20, marked with 3 notches on S. and 5 notch-

chains	
	es on E. edges; and raise a mound of stone, 2 ft. base, 1½ ft high, W. of cor. Pits impracticable.
	Sand, mountainous.
	Soil, gravelly loam; 2nd rate.
	Timber, cedar and pinion pine.
	Undergrowth, oak and sage brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 80.00 chs.
	Being unable to find the ¼ sec. cor., bet. secs. 17 and 20, we run for reasons already explained from cor. of secs. 16, 17, 20, and 21.
	S. 88° 30' W., on a resurvey line bet. the E. halves of secs. 17 and 20.
	Over rolling land, through scattering undergrowth.
37.50	Wash, 10 lks. wide, 3 ft. deep, in hollow; course N. E.; ascend.
40.00	Find no trace of old ¼ sec. cor. Set a gray limestone, 20 x 12 x 10 ins., 15 ins. in the ground, for reestablished ¼ sec. cor., marked ¼ on N. face; from which
	Cedar, 10 ins. diam., bears N. 58° W., 135 lks. dist., marked ¼ S. 17, B. T.
	Cedar, 8 ins. diam., bears S. 1° E., 65 lks. dist., marked ¼ S. 20, B. T.
	Sand, rolling.
	Soil, clay and gravelly loam; 2nd rate.

Chains	
	No timber.
	Undergrowth, sagebrush.
	Good grass for grazing.
	For reasons already explained, we run
	West, on a true line bet. the W. halves of secs. 17 and 20.
	Over rolling land, through scattering timber and undergrowth; ascend gradually.
5.00	Begin steep ascent of mountain, bears N. and S.E.
33.61	Intersect N. and S. line, 2.25 chs. N. of the cor. of secs. 17, 18, 19, and 20.
9861/500	Set a limestone, 18 x 12 x 7 ins., 12 ins. in the ground, for closing cor. of secs. 17 and 20, marked C. C. on E. with 3 grooves on S. and 5 grooves on E. faces; and raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. Pits impracticable.
	Note: We destroy all marks on the cor. of secs. 17, 18, 19, and 20, which pertain to secs. 17 and 20.
	Land, mountainous.
	Soil, gravelly loam; 2nd rate.
	Timber, scattering cedar.
	Undergrowth, oak and sagebrush.
	Good grass for grazing.
	Mountainous land, 28.61 chs.
	For reasons already explained, we run
	West, on a true line bet. secs. 18 and 19, from the cor. of secs. 18 and 19.
	Over mountainous land,

Subdivision of T. 17 S., R. 1 W.- Continued.

Chains	
	through dense undergrowth and scattering cedar and pinon pine timber; ascend
40.00	Set a red sand stone, 18x16x6 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.
60.00	Top of ridge, 450 ft. above sec. cor. bears N. E. and S. W.; descend.
81.00	Bottom of broad hollow 200 ft. below ridge, course N. E.; ascend.
110.25	Wood road, bears N. E. and S. W.
119.50	Top of ridge 300 ft. above hollow bears N. E. and S. W.; leave dense undergrowth, and enter heavy timber, bears with ridge; descend.
135.00	Bottom of hollow, 150 ft. below ridge, course N. 30° E.; ascend.
160.00	Top of rocky ridge, 250 ft. above hollow, bears N. 40° E.; descend.
204.00	Bottom of hollow 150 ft. below ridge, course N. 80° E.; ascend.
234.00	Top of ridge 400 ft. above hollow bears N. and S.; descend.
259.46	Intersect W. bdy. of Tp. 1.22 chs. N. 0°21' E., of the ¼ sec. cor. on E. side of sec. 24, T. 17 S., R. 2 W. Set a quartzite stone, 19x10x12 ins., 13 in. in the ground for closing cor. of secs. 18 and 19, marked C.C. on E. with 3 grooves on N. and S. faces; from which: A pinon pine, 8 ins. diam., bears N. 72°30' E., 57 lks. dist., marked T. 17 S., R. 1 W., S. 18, B.T. A pinon pine, 10 ins. diam., bears S. 40° E., 51 lks. dist., marked T. 17 S. R. 1 W., S. 19 B.T.

X

Subdivision of T. 17 S. R. 1 W.-Continued.

Chains	Sand, mountainous.
	Soil, gravelly loam and rocky; 2nd and 4th rate.
	Timber cedar and pinon pine. Undergrowth sage and oak brush.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth, 259.46 chs.
	June 22, 1898: At this cor. we set off 23°27' N. on the decl. arc. and at 0h 3m p.m. l.m.t., observe the sun on the meridian the resulting lat. is 39°20' N.
	From cor. of secs 18 & 19 we run North, on a random line bet. secs. 17 and 18.
40.00	Set temp ¼ sec. cor.
82.05	Fall 9.24 chs. E. of cor. of secs. 7, 8, 17 and 18, which is a decayed p in old mound, marked and witnessed as described by the surveyor general.
	In order to preserve uniformity in sec. 17 we run S. 1°30' E., from cor. of secs. 7, 18, 17, and 18, on a true line bet. secs. 17 and 18 parallel to E. bdy of sec. 17.
	Ascend gradually through scattering timber and undergrowth.
5.00	Hollow 5 ft. below sec. cor.; as
21.00	Top of ridge, 100 ft. above hollow bears N. E. and S. W.; descend.
40.00	Set a quartzite stone, 15 × 12 × 4 ins., 10 ins. in the ground, for ¼ sec. cor. marked ¼ on W. face; and

Subdivision of T. 17 S. R. 1 W. - Continued.

Chains	
	raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
41.00	Bottom of hollow 50 ft. below ridge, course N. E.; ascend.
50.00	Top of ridge 30 ft. above hollow, bears N. E. and S. W.; descend.
56.00	Hollow, 25 ft. below ridge course N. E.; ascend.
69.50	Top of ridge 40.00 ft. above hollow, bears N. E. and W.; descend.
82.05	Intersect E. and W. line 7.09 chs. W. of N. E. cor of sec. 19. Set a quartzite stone 16 x 10 x 6 ins., 9 ins. in the ground for closing cor. of secs. 17 and 18 marked C. C. on N., 5 grooves on E. and 3 grooves on S. faces; and raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor. Pits impracticable. Note.- We destroy all marks on the cor. of secs. 18 and 19 which pertain to sec. 18 and remark it as the N. E. cor. of sec. 19; also destroy marks on closing cor. set for secs 17 and 20 and remark it as N. W. cor. of Sec. 20.

Sand, mountainous.
Soil, clay and gravelly loam, 2nd rate.
Timber cedar.
Undergrowth sage brush and shadscales.
Good grass for grazing.
Mountainous land 82.05 chs.

Subdivision of T. 17 S. R. 1 W. Continued.

We destroy all traces of the old cor. of secs. 7, 8, 17 and 18, and reestablish it at the same point for the cor. of secs. 7, 8, 17 and 18 as follows:

Set a sandstone, 15x10x9 ins. 10 ins. in the ground, for re-established cor. of secs. 7 and 8, marked with 4 notches on S. and 5 notches on E. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.

Thence we run
East, on a retracement line bet. secs. 8 and 17.

40.00 Find no trace of old ¼ sec. cor.

80.83 Intersect N. and S. line, 2.12 chs., S. 1° 30' E., of the cor. of secs. 8, 9, 16 and 17.

Thence we run
S. 88° 30' W., on a resurvey line bet. secs. 8 and 17.

Over gently rolling land through scattering under growth.

16.50 Right bank of Sevier River, 4 ft. deep, sluggish current, course N. 30° E.

18.50 Left bank of Sevier River.

40.40 Find no trace of old ¼ sec. cor.
Set a sandstone, 16x10x6 ins., 11 ins. in the ground, for reestabli 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. Ascend gently.

80.80 The cor. of secs. 7 and 8, 17 & 18

Sand, gently rolling.
Soil, clay loam; 2nd rate.
No timber.

Subdivision of T. 17 S., R. 1 W.- Continued.

chains.	
	Undergrowth, sagebrush. Good grass for grazing.
	For reasons already explained, we run West, on a true line bet. secs. 7 and 18, from the cor. of secs. 7 and 18. Over rolling mountains, through scattering cedar timber and undergrowth; ascend.
11.00	Top of ridge, 60 ft. above cor., bears N.E. and S.W.; descend.
15.00	Bottom of hollow, 30 ft. below ridge, course N.E.; ascend.
20.00	Top of ridge, 20 ft. above hollow, bears N.E. and S.W.; descend.
35.00	Bottom of hollow, 50 ft. below ridge, course N.; ascend.
37.00	Find by trace of foot of mountain cor.
40.00	Set a hard sandstone, 20 x 12 x 8 ins., 15 ins. in the ground, for ¼ sec. cor., marked 4 on N. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
60.50	Top of ridge, 200 ft. above hollow, bears N.E. and S.W.; descend.
130.00	Bottom of hollow, 200 ft. below ridge, course N.E.; ascend.
180.00	Top of ridge, 400 ft. above hollow, bears N. 20° E. and S. 20° W.; descend.
227.00	Bottom of hollow, 200 ft. below ridge, course N. 30° E.; ascend.
242.00	Top of ridge, 500 ft. above hollow, bears N. 30° E. and S. 30° W.; descend.
249.80	Intersect W. bdy. of Tp. 3. 24 chs.

Subdivision of T. 17 S., R. 1 W.—Continued.

chains. N. 0° 21' E. of the ¼ sec. cor., on E. side of sec. 13, T. 17 S., R. 2 W.
Set a limestone, 18 x 14 x 12 ins., 12 ins. in the ground, for closing cor. of secs. 7 and 18, marked C. C. on E. with 2 grooves on N. and 4 on S. faces; from which
A cedar, 6 ins. diam., bears N. 4° E., 80 lks. dist., marked T. 17 S., R. 1 W., S. 7, B. T.
A pinion pine, 6 ins. diam., bears S. 80° E., 120 lks. dist., marked T. 17 S., R. 1 W., S. 18, B. T.
Sand, mountainous.
Soil, clay loam and gravelly; 2nd and 3rd rate.
Timber, cedar and pinion pine.
Undergrowth, sage and oak brush.
Good grass for grazing.
Mountainous land, 249.30 chs.

From the cor. of secs. 7, and 8, 17 & 18 we run
North, on a retracement line bet. secs. 7 and 8.
40.00 Find no trace of old ¼ sec. cor.
80.77 The cor. of secs. 5, 6, 7, and 8, which is a greatly decayed post in mound, marked and witnessed as described by the surveyor general, bears W. 2.11 chs. dist.
We destroy all traces of old cor. and reestablish it at the same point as follows:
Set a hard sandstone, 30 x 16 x 16 x 22 ins. in the ground, for reestablished cor. of secs. 5, 6, 7, and 8,

Subdivision of T. 17 S., R. 1 W.- Continued.

chains	
	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.
	Thence we run S. 1° 30' E., on a resurvey line bet. secs. 7 and 8.
	Over rolling land, through scattering undergrowth.
28.50	Wash, 30 lks. wide, 7 ft. deep, course N. E.
40.40	Set a sandstone, 16x6x5 ins., 11 ins. in the ground, for re-established 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.
C 80.80	The re-established cor. of secs. 7 and 8, 17 & 18
	Sand, rolling.
	Soil, clay loam; 1st and 2nd rate.
	No timber.
	Undergrowth, sagebrush.
	June 22, 1898.

	June 23, 1898: At 8h 0m a. m., l. m. t., we set off 39° 22' N., on the lat. arc; 23° 27' N., on the decl. arc; and determine a true meridian with the solar at the cor. of secs. 5, 6, 7, and 8.
	Thence we run East, on a retracement line bet. secs. 5 and 8.
40.00	Find no trace of ¼ sec. cor.
80.83	Intersect N. and S. line 2.11 chs. S. 1° 30' E. of the re-established

Subdivision of T. 17 S., R. 1 W.-Continued

chains. cor. of secs. 4, 5, 8, and 9.
Thence we run
S. 88° 30' W., on a resurvey line
bet. secs. 5 and 8.
Over nearly level land,
through scattering under-
growth.
40.40 Find no trace of old ¼ sec. cor.
Set a blue limestone, 16x14x8
11 ins. in the ground, for rees-
¼ sec. cor., marked ¼
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 ght bank of Sevier River, 4 ft.
deep, sluggish current,
N. 50° W.
51.35 Left bank of Sevier River,
80.80 The cor. of secs. 5, 6, 7, and 8.
Sand, nearly level,
soil, clay loam; 2nd rate.
No timber.
Undergrowth, sagebrush
and shadscales.

For reasons already
d, we run
West, on a true line bet. secs.
6 and 7.
Over rolling land, through
dense undergrowth; ascend.
12.00 Find no trace of foot of mountain cor
40.00 Foot of mountain, bears N. 15° W.
and S. 15° E.
Set a sandstone, 16x9x8 ins., 11 ins.
the ground, for ¼ sec. cor.,
marked ¼ on N. face; dig pits,
18x18x12 ins., E. and W. of stone,

Subdivision of T. 17 S., R. 1 W.-Continued.

chains	3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor. Ascend mountain.
69.50	Top of ridge, 150 ft. above ¼ sec. cor., bears N. 20° E. and S. 20° W.; descend.
89.50	Bottom of hollow, 100 ft. below ridge, course N. 20° E.; ascend.
109.00	Top of ridge, 160 ft. above hollow, bears N. 20° E. and S. 20° W.; descend.
112.00	Bottom of hollow, 50 ft. below ridge, course N. 20° E.; ascend.
154.50	Wood road, bears N. 20° W. and S. 20° E.
186.50	Top of ridge, 150 ft. above hollow, bears N. 15° E. and S.; descend.
246.70	Intersect W. bdy. of Tp. 05 chs. S. 0° 21' W., from the ¼ sec. cor. on E. side of sec. 12, T. 17 S., R. 2 W. Set a quartzite stone, 18 x 16 x 8 ins., 12 ins. in the ground, for closing cor. of secs. 6 and 7, marked C. C. on E., with 1 groove on N. and 5 grooves on S. faces; and raise a mound of stone 2 ft. base, 1½ ft. high, E. of cor. Pits impracticable. Note: We destroy all marks on the cor. of secs. 1 and 12, on E. bdy. T. 17 S., R. 2 W., which pertain to secs. 6 and 7, T. 17 S., R. 1 W. Sand, rolling. Soil, gravelly; 3rd rate. No timber. Undergrowth, sage and oak brush. Good grass for grazing. Sand covered with dense undergrowth, 246.70 chs.

Subdivision of T. 17 S., R. 1 W.-Continued.

note: Being unable to find
the ¼ sec. cor. bet. secs. 5 and 6,
proceed to establish it as
near as possible in its ori-
al position, therefore we run
N. 1° 30' W. on a resurvey line bet
the South halves of secs. 5 and
Over nearly level land,
through scattering under
growth.
40.00 Find no trace of old ¼ sec. cor.,
Set a sandstone, 16x9x8 ins.,
11 ins. in the ground, for res-
tablished ¼ sec. cor., marked
¼ on W. face; dig pits, 18x18x12
1. and S. of stone, 3 ft. dist., and
raise a mound of earth, 3½ ft.
, 1½ ft. high, W. of cor.
Sand, nearly level.
Soil, clay loam; 2nd rate.
No timber.
Undergrowth, sagebrush
and shadscales.
Good grass for grazing.

North, on a random line
N. halves of secs. 5 and 6.
42.05 Intersect N. bdy. of Tp. at the c
of secs. 5, 6, 31, and 32,
Thence we run
South, on a true line bet. the
N. halves of secs. 5 and 6.
Over a series of ledges -
dense undergrowth;
0.50 Foot of descent, leave ledges,
bears E. and W.
Thence over rolling land.
6.00 Right bank of Sevier River,

Subdivision of T. 17 S., R. 1 W.- Continued.

Chains	
	5 ft. deep, sluggish current, course N. 80° W.
38.00	Left bank of Sevier River.
42.05	The restablished 1/4 sec. cor. bet. secs. 5 and 6.
	Sand mountainous and rolling.
	Soil, clay loam and rocky 2nd and 4th rate.
	No timber.
	Undergrowth, sagebrush and shadscales.
	Good grass for grazing.
	Mountainous land or land covered with dense undergrowth, 42.05 chs.
	June 23, 1898: At the noon hour, the sky is overcast and solar observations are impossible.
	June 23, 1898.

Note.- On account of failing in every instance to find the foot of mountain corners, at the end of fractional miles, in this township, and because of finding no settlers or entries, dependent on the old areas based on these fractional lines, we considered it proper to run the following mentioned lines as given in the field notes of them; viz,- the lines bet. secs. 1 and 2;- 1 and 12; 3 and 4, 7 and 18, 17 and 18, W. 1/2 of 17 and 20, and the W. 1/2 of secs. 20 and 29, 2 and 3, 6 and 7, W. 1/2 of 29 and 32, N. 1/2 of 5 and 6 and E. 1/2 of 12 and 13.

Subdivision of T. 17 S., R. 1 W. - Continued.

Note. - In order to justify the method we followed in re-establishing the old lines on which to close our survey in the subdivisions of this township, viz - placing the old corners at proportional distances and on true lines bet. the only original corners found, we give the following statement.

J. Bartholomew Sr. who made a desert entry in this township in the year 1884, stated to us that he had been familiar with the land in this township for more than 20 years, and had frequently searched for corners in many parts, but had been unable to find any corners in the subdivisions of this township, either at the time of his entry, or subsequent to that time. However we did not accept this informati without proof, for during the progress of our survey we searched thoroughally by retracement and enquiry all through the surveyed portion of this township, but were unable to find tr of any of the original c except those given in the notes.

Subdivision of T. 17 S., R. 1 W. - Continued.

Chains

General Description.

This fractional township is very rough in the eastern part, rolling in the northern and western parts and nearly level in the central part. The soil of the mountainous land is generally clay or gravelly loam; will produce excellent crops without irrigation and can be classed as second rate. The soil of the low hills and of the valley is clay loam, 1st and 2nd rate.

Heavy cedar and pinon pine timber is found in the eastern part of the township; in the northern and western parts, the timber is more scattering. There is a dense growth of sage brush and shadscales in the valley and on the low hills.

The Sevier River, a stream with an average width of 2.50 chs. and an average depth of 4 ft. (at this time of year) runs through the township from S. E. to N. W.

The water from Timber and Hell's Kitchen Canons is used in the eastern part of the township for irrigation purposes.

We find no indications of mineral in the township.

J. Bartholomew Sr. D.E. 9164 has most of his improvements in sections 14 and 23 which

Subdivision of T. 17 S., R. 1 W. - Con

are not in our survey.
There are no settlers in
this fractional township.

Scott P. Stewart,
Andrew J. Stewart Jr.
U. S. Deputy Surveyors.

Volume
#
R0257

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____, 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 _____ showing the respective capacities in which they acted:

_____, *Chainman.*

_____, *Chainman.*

_____, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____, United States Deputy Surveyor, in surveying all those parts or portions of the _____ of the _____ meridian, _____ of _____, 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 _____

_____, *Chainman.*

_____, *Chainman.*

_____, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

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

SEAL

_____

_____

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ... United States Deputy Surveyor, do solemnly swear that in pursuance of a contract received from ..... United States Surveyor General for ..... bearing date of the ..... day of ..... 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 Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

.....

.....

.....

..... of the .....

..... meridian, in the ..... of ..... 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 ..... 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.

.....

United States Deputy Surveyor.

Subscribed by said ..... and sworn to before me this ..... day of ..... 189 .

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, July 27 1900, 189

The foregoing field notes of the survey of The Subdivisions of Township 17 South Range 1 West of the Salt Lake Base and Meridian, Utah.

Approved by Scott Stewart & Andrew J. Stewart Jr. in the [illegible] 217 dated December 1, 1897, having been [illegible] necessary corrections and explanations made, the said field notes, and the [illegible] are hereby approved.

Jacob Bigelow

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.

BOOK A-257

FIELD NOTES

OF THE SURVEY OF THE

Salt Lake Meridian

in

Townships 16 South

Between

Ranges 1 East and 1 West

Of the Salt Lake Base and Meridian,

In the State of Utah.

AS SURVEYED BY

Scott P. Stewart & Andrew J. Stewart Jr., United States Deputy Surveyors.

Under ~~his~~ their Contract No. 217, dated November 1st, 1897.

Survey commenced June 23th, 1898.

Survey completed June 24th, 1898.

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Meridian high 6-15-00 ✓

[illegible] 29-25 ✓

NAMES AND DUTIES OF ASSISTANTS.

John R. Stewart, Chainman.
Daniel H. Y. McAllister, Chainman.
Wm W. Richardson Jr. Chainman.
Alma Betts. Chainman.
Antone P. Stewart, Moundman.
Peter S. Sorensen Moundman.
Benjamin F. Stewart Axman.
Quimby Stewart Flagman.

For preliminary affidavits see book "R"

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BOOK A-257

INDEX DIAGRAM.

Township 16 South, *Range* 1 West

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SALT LAKE MERIDIAN.

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 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 o
.....

....., *Chainman*

....., *Chainman*

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 moundmen in the establishmen of corners, according to the instructions given us, to the best of our skill and ability, in the survey o
.....

....., *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 corner. and other duties, according to instructions given us, to the best of our skill and ability, in the survey o
.....

....., *Axman*

....., *Axman*

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

SEAL

I, ..., 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 .....

....., *Flagman.*

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

SEAL

East boundary of T. 16 S., R. 1 W. of Salt Lake Meridia

Survey commenced June 23, 1898, and executed with a W. and S. E. Gurley light mountain transit No. -, with solar attachment. The horizontal limb is provided with two double veniers 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; and a Buff and Berger transit, No. 2511, the horizontal limb is provided with two double veniers reading to single minutes of arc. The instruments were examined, tested on the true meridian at Salt Lake City, found correct, and were approved by the surveyor general for Utah, the former on December 4, 1897; and the latter on April 5, 1898. We examine the adjustments of the transits and correct the level and collimation errors; then, to test the solar apparatus, of the Gurley instrument by comparing its indications resulting from solar observations made during p. m. and a. m. hours, with a true meridian determined by observations on Polaris, we proceed as follows:

At the cor. of Tps. 16 and 17 S., Rs. 1 E. and 1 W., latitude 39°23' N., longitude 111°53'47" W.; we set off 39°23' N., on the lat. arc; 23°27' N., on the decl. arc; and at 4h 2m p. m., l. m. t., determine a true

East boundary of T. 16 S., R. 1 W.-Continued

meridian with the solar, of the Gurley instrument, and mark a point thereof on a stone, firmly set in the ground, 5.00 chs. N. of the cor.

June 23, 1898.

June 24, 1898: At 1h 15m p.m., l.m.t., we observe Polaris at eastern elongation, with the Buff and Berger instrument in accordance with the Manual of Instructions, and mark a point in the line thus determined, on a plug driven in the ground, 5.00 chs. N. of our station.

At 6h 30m a.m., l.m.t., we lay off the azimuth of Polaris 1°36' to the west, on the Buff and Berger instrument, and mark the True Meridian thus determined, by cutting a small groove in the stone set June 23, on which the true meridian falls 0.4 ins. east of the mark determined with the solar of the Gurley instrument.

At 6h 40m a.m., l.m.t., we lay off the azimuth of Polaris 1°36' to the west, on the Gurley instrument, and mark the True Meridian thus determined, by cutting a small groove in the stone set June 23, on which the true meridian falls 0.4 ins. east of the mark determined with the solar.

At 8h 0m a.m., l.m.t., we set off 39°23' N., on the lat. arc; 23°25' N., on the decl. arc; and mark

a point in the true meridian determined with the solar, of the Gurley instrument, by a cross on the stone already set 5.00 chs. N. of our station; this mark falls 0.32 ins. east of the true meridian established by Polaris observation.
The solar apparatus of the Gurley instrument, by p. m. and a. m. observations defines positions for true meridians respectively about 0'21" west and 0'17" east of the meridian established by Polaris observations; therefore we conclude that the adjustments of the instruments are satisfactory.
The magnetic bearing of the true meridian at 7h 35m a. m. is N. 16° 36' W.; the angle thus determined, reduced by the table, page 100, of the Manual gives the mean mag. decl. 16° 30' E.
From the cor. of Tps. 16 and 17 S., Rs. 1 E. and 1 W., heretofore described, we run
North, bet. secs. 31 and 36.
Descend mountain through heavy pinion pine and cedar timber.
3.4.50 Bottom of hollow, 300 ft. below cor., course W.; ascend abruptly. Leave heavy and enter scattering timber, bears E. and W. Difference between measurements of 40.00 chs., by two sets of chainmen is 30 lks.; position of middle point
By 1st set, 39.85 chs.

East boundary of T. 16 S., R. 1 W.—Con

	By 2nd set, 40.15 chs.; the mean of which is
40.00	Set a gray limestone, 16x10x6 ins. 11 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.
45.50	Top of ridge, 200 ft. above hol bears E. and W.
	Difference between measurements of 80.00 chs.; by two sets of chainmen is 32 lks.; position of middle point
	By 1st set, 79.84 chs.
	By 2nd set, 80.16 chs.; the mean of which is
80.00	Set a gray limestone, 15x12x5 ins., 10 ins. in the ground, for cor. of secs. 25, 30, 31, and 36, marked 5 notches on N. and 1 notch on S. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	Sand, high rolling
	Soil, loam and rocky; 1st and 3rd rate.
	Mountainous or heavily timbered land, 80.00 chs.
	North, bet. secs. 25 and 30.
	Over mountainous land, through scattering cedar pinion pine timber, and undergrowth; descend.
4.50	Creek, 10 lks. wide, 3 ins. deep, rapid current, rocky bottom, in Pierce's Cañon, 300 ft. below ridge, on S. course S. 80° W.; ascend.

East boundary of T. 16 S., R. 1 W.—Continued.

Chains	
30.50	Top of ridge, 300 ft. above creek, bears E. and W.; descend. Difference between measurements of 40.00 chs., by two sets of chainmen, is 36 lks.; position of middle point. By 1st set, 39.84 chs. By 2nd set, 40.16 chs.; the mean of which is
40.00	Set a gray limestone, 16 x 12 x 4 ins., 11 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. Difference between measurements of 80.00 chs.; by two sets of chainmen, is 24 lks; position of middle point By 1st set, 79.88 chs. By 2nd set, 80.12 chs.; the mean of which is
80.00	Set a gray limestone, 20 x 10 x 6 ins., 15 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; from which A pinion pine, 18 ins. diam., bears N. 20° E., 77 lks. dist., marked T. 16 S., R. 1 E., S. 19, B. T. A cedar, 6 ins. diam., bears S. 57° E., 33 lks. dist., marked T. 16 S., R. 1 E., S. 30, B. T. A cedar, 30 ins. diam., bears S. 12° W., 70 lks. dist., marked T. 16 S., R. 1 W., S. 25, B. T. A cedar, 24 ins. diam., bears N. 30° W., 70 lks. dist., marked T. 16 S., R. 1 W., S. 24, B. T. Sand, mountainous. Soil, loam, rocky and gravelly;

East boundary of T. 16 S. R. 1 W.-Continued.

Chains.	1st and 3rd rate.
	Timber, scattering cedar and pinion pine.
	Undergrowth, oak.
	Mountainous land, 80.00 chs.
	North, bet. secs. 19 and 24.
	Over mountainous land, through scattering cedar and pinion pine timber and undergrowth; descend.
20.50	Bottom of hollow, 50 ft. below sec. cor., course S. 80° W.; ascend.
35.00	Top of ridge, 100 ft. above hollow, bears E. and W.; descend.
	Difference between measurements of 40.00 chs., by two sets of chainmen, is 30 lks.; position of middle point
	By 1st set 39.85 chs.
	By 2nd set 40.15 chs.; the mean of which is
40.00	Set a sandstone, 14 x 8 x 5 ins., 9 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; from which
	A cedar, 12 ins. diam., bears N. 80° E., 40 lks. dist., marked 1/4 S. 19, B. T.
	A pinion pine, 8 ins. diam., bears S. 32° W., 85 lks. dist., marked 1/4 S. 24, B. T.
43.00	Bottom of hollow, 16 ft. below ridge, course S. 70° W.; ascend.
47.50	Top of ridge, 60 ft. above hollow, bears N. 80° E. and S. 80° W.
67.30	Wash, 10 lks. wide, 3 ft. deep, in hollow, 60 ft. below ridge, course S. 65° W.
78.50	Top of ridge, 150 ft. above hollow, bears N. W. and S. E.

East boundary of T. 16 S., R. 1 W. - Continued.

chains	
	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	Set a gray limestone, 18 x 12 x 6 ins., 12 ins. the ground, for cor. of secs. 13, 18, 19, and 24, marked with 3 notches on N. and 3 notches on S. edges; from which
	A cedar, 18 ins. diam., bears N. 41° E., 10 lks. dist., marked T. 16 S., R. 1 E., S. 18, B.T.
	A cedar, 6 ins. diam., bears S. 21° E., 95 lks. dist., marked T. 16 S., R. 1 E., S. 19, B.T.
	A pinion pine, 8 ins. diam., bears S. 24° W., 48 lks. dist., marked T. 16 S., R. 1 W., S. 24, B.T.
	A cedar, 12 ins. diam., bears N. 30° W., 32 lks. dist., marked T. 16 S., R. 1 W., S. 13, B.T.
	No tree within limits in sec. 18; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Sand, mountainous.
	Soil, clay loam; 2nd rate.
	Good grass for grazing.
	Timber, scattering cedar.
	Undergrowth, oak.
	Mountainous land, 80.00 chs.
	June 24, 1898. At the noon hour, the sky is overcast and solar observations are impossible.

North, bet. secs. 13 and 18.
Over mountainous land.

East boundary of T. 16 S., R. 1 W.-Continued

chains	
	through heavy cedar timber, and scattering oak brush; ascend.
28.50	Enter bottom of Chriss' Cañon, bears N. 80° W. and S. 80° E.
29.50	Chriss' Creek, 8 lks. wide, 8 ins. deep, rapid current, rocky bottom, course N. 80° W.; ascend.
34.00	Wood road bears N. 80° W. and S. 80° E.
36.00	Leave bottom of cañon, bears N. 80° W. and S. 80° E.
	Difference between measurements of 40.00 chs., by two sets of chainmen, is 24 lks.; position of middle point
	By 1st set 39.88 chs.
	By 2nd set 40.12 chs.; the mean of which is
40.00	Set a sandstone, 20 x 14 x 8 ins., 15 ins. in the ground, for 4 sec. cor., marked 4 on W. face; from which
	A cedar, 6 ins. diam., bears S. 75° E., 60 lks. dist., marked 4 S. 18, B. T.
	A cedar, 8 ins. diam., bears S. 65° W., 35 lks. dist., marked 4 S. 13, B. T.
53.00	Top of ridge, 200 ft. above Chriss' Cañon, bears N. 50° E. and S. 50° W.; descend.
64.00	Bottom of hollow, 75 ft. below ridge, course S. 80° W.; ascend.
70.00	Top of ridge, 80 ft. above hollow, bears N. 70° E. and S. 70° W.; descend.
73.00	Hollow, 50 ft. below ridge, course W.; ascend.
	Difference between measurements of 80.00 chs., by two sets of chainmen, is 18 lks.; position of middle point
	By 1st set 79.91 chs.
	By 2nd set 80.09 chs.; the mean of which is
80.00	Set a sandstone, 20 x 10 x 4 ins., 15 ins.

East boundary of T. 16 S., R. 1 W. - Continued.

chains.	
	in the ground, for cor. of secs. 7, 12, 13, and 18, marked with 4 notches on S. and 2 notches on N. edges; from which
	A cedar, 6 ins. diam., bears N. 61° E., 70 lks. dist., marked T. 16 S., R. 1 E., S. 7, B. T.
	A cedar, 20 ins. diam., bears S. 9° E., 18 lks. dist., marked T. 16 S., R. 1 E., S. 18, B. T.
	A pinion pine, 8 ins. diam., bears S. 80° W., 53 lks. dist., marked T. 16 S., R. 1 W., S. 13, B. T.
	A cedar, 10 ins. diam., bears N. 77° W., 50 lks. dist., marked T. 16 S. R. 1 W., S. 12, B. T.
	Sand, mountainous.
	Soil, sandy loam and gravelly 2nd and 3rd rate.
	Good grass for grazing.
	Timber, cedar.
	Mountainous or heavily timbered land, 80.00 chs.
	North, bet. secs. 7 and 12.
	Over mountainous land, through heavy cedar timber, and dense oak brush; ascend.
1.50	Top of ridge, 80 ft. above hollow, on S., bears S. 30° W.; descend.
7.70	Bottom of hollow, 200 ft. below ridge, course S. 40° W.; ascend.
9.25	A lumber cabin bears E. 50 lks. dist.
33.50	Ridge, 350 ft. above hollow, bears N. 30° W. and S. 30° E.; descend.
39.40	Hollow, 200 ft. below ridge, course S. 45° E.
	Difference between measurements of 40.00 chs., by two sets of

East boundary of T. 16 S., R. 1 W.-Continued.

chainmen, is 22 lks.; position of middle point

By 1st set 39.89 chs.

By 2nd set 40.11 chs.; the mean of which is

40.00 Set a sandstone, 20 x 12 x 5 ins., 15 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; from which

A cedar, 8 ins. diam., bears S. 65° 30' E., 18 lks. dist., marked ¼ S. 7, B.T.

A cedar, 8 ins. diam., bears S. 56° W., 58 lks. dist., marked ¼ S. 12, B.T.

42.50 Top of spur, 150 ft. above hollow, bears N. 80° E. and S. 80° W.; descend.

45.25 Bottom of hollow, 30 ft. below spur, course S. 20° 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 Set a sandstone, 18 x 7 x 7 ins., 13 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; from which

A pinion pine, 6 ins. diam., bears S. 83° 30' W., 60 lks. dist., marked T. 16 S., R. 1 W., S. 12, B.T.

An oak, 3 ins. diam., bears S. 23° E., 102 lks. dist., marked T. 16 S., R. 1 E., S. 7, B.T.

A pinion pine, 7 ins. diam., bears N. 57° E., 57 lks. dist., marked T. 16 S., R. 1 E., S. 6, B.T.

A cedar, 9 ins. diam., bears N. 72° W., 89 lks. dist., marked T. 16 S., R. 1 W., S. 1, B.T.

Sand, mountainous.

East boundary of T. 16 S., R. 1 W.—Continued.

Chains	
	Soil, dark loam and gravelly; 1st and 3rd rate. Undergrowth, oak, and mahogany. Timber, cedar. Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.
	North, bet. secs. 1 and 6. Over mountainous land, through scattering undergrowth and timber.
13.50	Top of divide bet. Little Salt Creek and Chriss' Cañons, 400 ft. above Chriss' Creek, bears S. 45° W. and N. 45° E.; descend.
37.70	Bottom of hollow, 400 ft. below ridge, course N. 80° W.; ascend. Difference between measurements of 40.00 chs.; by two sets of chainmen, is 30 lks.; position of middle point By 1st set 39.85 chs. By 2nd set 40.15 chs.; the mean of which is
40.00	Falls on a sandstone ledge, 18 x 14 x 14 ins., above ground. We cut across (X) at the exact cor. point, for 1/4 sec. cor., marked 1/4 on W. face; from which A cedar, 6 ins. diam., bears S. 74° E., 53 lks. dist., marked 1/4 S. 6, B.T. A cedar, 18 ins. diam., bears S. 56° W., 27 lks. dist., marked 1/4 S. 1, B.T.
41.50	Top of ridge, 150 ft. above hollow, bears N. 70° W. and S. 70° E.
52.50	Bottom of cañon, 100 ft. below ridge, course N. 10° E.

East boundary of T. 16 S., R. 1 W.- Continued.

Chains.	
65.00	Top of ridge, 20 ft. above hollow, bears N.E. and S.W.; descend.
81.00	Bottom of same cañon, 300 ft. below ridge, course N. 60° W.; ascend.
90.00	Top of ridge, 200 ft. above cañon, bears E. and W.; descend.
	Difference between measurements of 95.00 chs., by two sets of chainmen, is 42 lks.; position of middle point
	By 1st set 95.21 chs.
	By 2nd set 94.79 chs.; the mean of which is
- 95.00	Intersect the Third Standard Parallel South 29.25 chs. E. of the standard cor. of Tps. 15 S., R. 1 E., heretofore described.
	Set a sandstone, 24 x 11 x 7 ins., 18 ins. in the ground, for closing cor. of T. 16 S., Rs. 1 E. and 1 W., marked C.C., 16 S., on S.; 1 E. on E.; and 1 W. on W.; with 6 grooves on E., S., and W., faces; and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor.
	Pits impracticable.
	Sand, mountainous.
	Soil, loam and rocky; 1st and 4th rate.
	Timber, scattering cedar and pinion pine.
	Undergrowth, scattering oak and mahogany.
	Mountainous land, 95.00 chs.
	June 24, 1898.

General Description.

Township 16 S., Ranges 1 East and 1 West, are generally mountainous, high and rolling producing an abundant

East boundary of T. 16 S., R. 1 W. - Continued.

growth of grass. There is some excellent land along Little Salt Creek, Chriss Creek, and two small creeks in S. part of the townships. There is a great deal of good land for farming in R. 1 W.

June 24, 1898.

Scott P. Stewart,
Andrew J. Stewart Jr.
U. S. Deputy Surveyors.

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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 Scott A. Stewart and Andrew J. Stewart Jr., United States Deputy Surveyors to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Salt Lake Meridian T. 17 S., between Rs. 1 E. and 1 W. and the Salt Lake Meridian T. 16 S., Rs. 1 E. and 1 W. showing the respective capacities in which they acted:

John R. Stewart, Chainman; Wm. W. Richardson Jr. Chainman.
Daniel H. Y. McAllister, Chainman; Alma Betts, Chainman.
Antone P. Stewart, Moundman.
Peter S. Sorensen, Moundman.
Benjamin F. Stewart, Axman.
Quimby Stewart, ~~Axman~~ Flagman.
, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Scott A. Stewart and Andrew J. Stewart Jr, United States Deputy Surveyors in surveying all those parts or portions of the Salt Lake Meridian T. 17 S., between Rs. 1 E. and 1 W. and the Salt Lake Meridian T. 16 S., Rs. 1 E. and 1 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~~ their and under ~~his~~ their 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.

, Chainman.
John R. Stewart, Wm. W. Richardson Jr., Chainman.
Daniel H. Y. McAllister, Alma Betts, ~~Moundman.~~ Chainman.
Antone P. Stewart, Moundman.
Peter S. Sorensen, ~~Axman.~~ Moundman.
Benjamin F. Stewart, Axman.
Quimby Stewart, Flagman.

Subscribed and sworn to before me this 19th day of September, 1898

Shadrach M. Richardson
Justice of the Peace
Benjamin precinct
Utah Co. Utah

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

We, Scott P. Stewart & Andrew J. Stewart Jr., United States Deputy Surveyors, do solemnly swear that, in pursuance of a contract received from Jacob B. Blair United States Surveyor General for Utah, bearing date of the 1st day of November, 1897, we have well, faithfully, and truly, in our own proper persons 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 Salt Lake Meridian T. 17 S. Rs. 1 E and 1 W. and the Salt Lake Meridian T. 16 S. Rs. 1 E. and 1 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 us, and under our direction; and we 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, we will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Scott P. Stewart
Andrew J. Stewart Jr.
United States Deputy Surveyors

Subscribed by said Scott P. Stewart & Andrew J. Stewart Jr., and sworn to before me this 16th day of January, 1900

Jacob B. Blair
U. S. Surveyor General

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City Utah June 23 1900

The foregoing field notes of the survey of the Salt Lake Meridian Township 16 South Ranges 1 East & West

executed by Scott P. Stewart & Andrew J. Stewart Jr. under his contract No. 217, dated November 1st, 1897, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Jacob B. Blair
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-257

K.J.B.

FIELD NOTES

OF THE SURVEY OF THE

Subdivisions

of

Township 16 South, Range 1 West,

Of the Salt Lake Base and Meridian,

In the State of Utah.

AS SURVEYED BY

Scott P. Stewart and Andrew J. Stewart Jr., United States Deputy Surveyors,

Under ~~his~~ their Contract No. 217, dated November 1st, 1897.

Survey commenced June 25th, 1898.

Survey completed July 7th, 1898.

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			M. Chs. Lks.
Subs.	Length		48-19-86
"	Loss		61-09
"	Clos.		1-48-62
Retirement	"	Contg.	5-47-54
Resurvey	"	do	21-55-87

C.P.Sz. 16-2

BOOK A-257

NAMES AND DUTIES OF ASSISTANTS.

John R. Stewart, Chainman.

Daniel H. Y. McAllister, Chainman.

Wm W. Richardson Jr. Chainman.

Alma Betts, Chainman.

Antone P. Stewart, Moundman.

Peter S. Sorensen, Moundman.

Benjamin H. Steward, Axman.

Quinby Stewart, Flagman.

For preliminary affidavits see Book "A"

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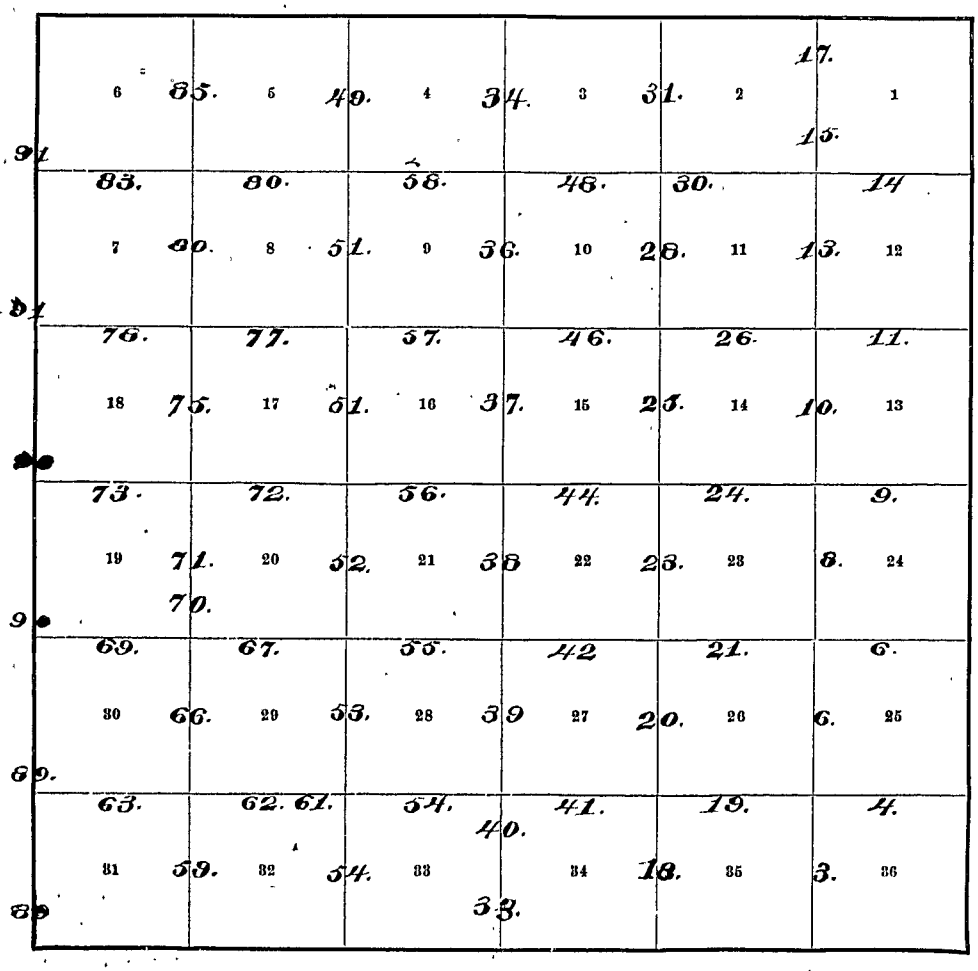
BOOK A-257

INDEX DIAGRAM.

Township 16 South, *Range* 1 East.



Meanders Page

6—151

PRELIMINARY OATHS OF ASSISTANTS.

WE, ... and .....
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

.....

..... *Chainman.*

..... *Chainman.*

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 moundmen in the establishmen of corners, according to the instructions given us, to the best of our skill and ability, in the survey o

.....

..... *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 corn and other duties, according to instructions given us, to the best of our skill and ability, in the survey o

.....

..... *Axman*

..... *Axman*

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

SEAL

.....

.....

I, ..., 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 .....

..... *Flagman*

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

SEAL

.....

.....

Subdivision of T. 16 S., R. 1 W.-

Survey commenced June 25, 1898, and executed with a W. and S. E. Gurley light mountain transit, No. -, 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; and a Buff and Berger transit, No. 2511, the horizontal limb is provided with two double verniers reading to single minutes of arc.

The instruments were examined, tested on the true meridian at Salt Lake City, found correct, and were approved by the surveyor general for Utah, the former on December, 4, 1897, and the latter on April 5, 1898.

We examine the adjustments of the instruments and correct the level and collimation errors; then, to test the solar apparatus of the Gurley instrument, by comparing its indications resulting from solar observations, made during p. m. and a. m. hours, with a true meridian determined by observations on Polaris, we proceed as follows:

At the cor. of secs. 35 and 36, on S. bdy. of Tp. heretofore described, latitude 39°23'N., longitude

Subdivision of T. 16 S., R. 1 W.- Continued.

ha .111° 55' W., we set off 39° 23' N., on the lat. arc; 23° 24' N., on the decl. arc; and at 3h 30m p.m., l.m.t., determine with the solar of the Gurley instrument, a true meridian, mark a point thereof on a stone, firmly set in the ground, 5.00 chs. N. of our sta At 1h 12m p.m., l.m.t., we observe Polaris at eastern elongation with the Buff and Berger instrument, in accordance with the of Intructions, and mark a point in the line thus determined on a plug in the ground, 5.00 chs. N. of station.

June 25, 1898.

June 26, 1898: At 7h 0m a.m., l.m. we lay off the azimuth of Polaris 1° 36' to the west, on Buff and Berger and mark the True Meridian thus determined by cutting a small groove in the stone set June 25, on the true meridian falls 0.32 ins. east of the mark determined by the solar of the Gurley instrument.
At 6h 30m a.m., l.m.t., we lay off the azimuth of Polaris 1° 36' to the west on the Gurley instrument, and mark True Meridian thus determined by cutting a small

chains groove in the stone set June 25, on which the true meridian falls 0.32 ins. east of the mark determined by the solar. At 8h 0m a.m., l.m.t., we set off 39°23' N., on the lat. arc; 23°22' N., on the decl. arc; and mark a point in the true meridian determined with the solar of the Gurley instrument, by a cross on the stone already set 5.00 chs. N. of our station; this mark falls 0.22 ins. east of the true meridian established by Polaris observation.

The solar apparatus of the Gurley instrument, by p.m. and a.m. observations, defines positions for true meridians, respectively about 0'16" west and 0'12" east of the true meridian established by Polaris observation; therefore we conclude that the adjustments of the instruments are satisfactory.

The magnetic bearing of the true meridian at 8h 31m a.m., is N. 16°35' W., the angle thus determined, reduced by the table, page 100 of the Manual, gives the mean mag. decl. 16°30' E.

From the cor. of secs. 35 and 36, on the S. bdy. of the Tp., we run N. 0°1' W., bet. secs. 35 and 36. Over land gently ascending

chains	
	N., through dense sagebrush.
25.00	Enter scattering cedar bears E. and W.
40.00	Set a sandstone, 16x12x5 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; from which a cedar, 7 ins. diam., bears N. 71° E., 65 lks., dist., marked ¼ S. 36, B. T. a cedar, 6 ins. diam., bears S. 40½° W., 50 lks. dist., marked ¼ S. 35, B. T. and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
72.00	Wash, 25 lks. wide, 8 ft. deep, a creek in wash, 3 lks. wide, 2 ins. deep, course S. 65° W.; ascend mountain, bears with creek.
80.00	Set a sandstone, 16x12x8 ins., 11 ins. in the ground, for the cor. of secs. 25, 26, 35, and 36, marked with 1 notch 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.
	Sand, nearly level, rolling. Soil, loam and gravelly; 1st and 3rd rate. Timber, scattering cedar. Undergrowth, sagebrush. Good grass for grazing. Sand covered with dense undergrowth, 80.00 chs.
	N. 89° 39' E., on a random line secs. 25 and 36.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect E. bdy. of Tp. 27 lks. N. of cor. of secs. 25, 30, 31, and 36, heretofore described. Thence we S. 89° 51' W., on a true line bet. secs.

Subdivision of T. 16 S., R. 1 W. - Continued.

chains.	25 and 36.
	Descend mountain through dense oakbrush.
4.90	Foot of mountain, leave oak and enter sagebrush, bears N. and S., thence over gently descending bench land.
38.75	Wire fence bears N. and S.; enter Henry Blair's cultivated field; leave sagebrush.
40.00	Set a sandstone, 15 x 10 x 8 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, 3½ ft. base, 1½ ft. high, N. of cor.
	Note: Henry Blair's house bears N. 5° E. about 4.00 chs. dist.
61.84	Wire fence bears N. and S.; leave H. Blair's cultivated field.
	Note: Sylvester Pierce has a cultivated field that joins H. Blair's field on S.
68.00	Enter heavy cedar timber, bears N. and S.
72.10	Pierce's creek, 3 lks. wide, 6 ins. deep, rapid current, rocky bottom, course S. 10° W.; ascend mountain.
76.90	Leave heavy cedar timber and enter dense undergrowth, bears N. and S.
80.00	The cor. of secs. 25, 26, 35, and 36.
5651/2309	Sand, mountainous and nearly level.
	Soil, sandy loam and gravelly; 1st and 2nd rate.
	Mountainous or heavily timbered land, or land covered with dense undergrowth,

Subdivision of T. 16 S., R. 1 W.-Continued.

56.91 chs.

N. 0° 1' W., bet. secs. 25 and 26.
Over mountainous land,
scattering cedar
and dense oak brush.
40.00 Set a sandstone, 18x8x8 ins., 12 ins.
in the ground, for ¼ sec. cor.,
marked ¼ on W. face; from
a cedar, 6 ins. diam., bears N. 1°
E., 25 lks. dist., marked ¼ S. 25, B. T.
a cedar, 4 ins. diam., bears N. 50°
W., 22 lks. dist., marked ¼ S. 26, B. T.
0.00 Set a hard sandstone, 18x8x7 ins.,
12 ins. in the ground, for cor. of
23, 24, 25 and 26, marked
with 2 notches on S. and 1 notch
E. edges; and raise a mound
stone, 2 ft. base, 1½ ft. high, W. of
. Pits impracticable.
Sand, rolling.
Soil, sandy loam and
ly; 1st and 3rd rate.
Timber, scattering cedar
pinion pine.
Undergrowth, dense oak
good grass for grazing.
Mountainous land, or land
with dense under-
growth, 80.00 chs.

N. 89° 51' E., on a random line bet.
secs. 24 and 25.
0.00 Set temp. ¼ sec. cor.
0.08 Intersect E. bdy. Tp. 7 lks. N. of
of secs. 19, 24, 25, and 30, hereto-
fore described. Thence we run

Subdivision of T. 16 S., R. 1 W.-Continued.

chains	
	S. 89° 54' W., on a true line bet. secs. 24 and 25. Descend mountain through heavy cedar and pinion pine timber.
20.00	Foot of mountain; leave heavy timber and enter dense sage brush, bears N. and S.; thence across flat.
27.50	Wood road, bears N. and S.
40.04	Set a sandstone, 18x10x6 ins., 12 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. Leave flat, bears N. and S.; ascend gently.
43.00	Top of ridge, 50 ft. above flat, enter scattering cedar timber, bears N. and S.
47.00	Foot of ridge, 50 ft. below top; enter flat; leave timber, bears N. and S.
76.00	Leave flat, bears N. and S.; ascend gently.
80.08	The cor. of secs. 23, 24, 25, and 26. Sand, rolling and nearly level. Soil, sandy loam and gravelly; 1st and 3rd rate. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.08 chs. June 26, 1898: at the noon hour, the sky is overcast and solar observations are impossible.

Subdivision of T. 16 S., R. 1 W.-Continued.

Chains	
	1.00 1' W., bet. secs. 23 and 24.
	Over rolling land, - scattering cedar timber sage and oak brush.
9.50	Foot of mountain, bears E. and
27.00	Foot of mountain bears E. W.; ascend.
	The S. W. cor. of a ten acre tract of plowed land, bears E.
	15.00 chs. dist.
40.00	Top of ridge, 40 ft. above sec. cor., bears E. and W.; descend.
	Set a sandstone, 17x9x6 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; from which
	Cedar, 8 ins. diam., bears S. 51½° E., 125 lks. dist., marked ¼ S. 24 B. T.
	Cedar, 3 ins. diam., bears S. 35° W., 82 lks. dist., m ¼ S. 23, B. T.
42.00	Leave timber, bears E. and W.
60.00	Enter scattering cedar - bears E. and W.
80.00	Set a sandstone, 25x8x10 ins., 18 ins. in the ground, for cor. of secs. 13, 14, 23 and 24, marked with 3 notches on S. and 1 notch on E. edges; from whi
	Cedar, 4 ins. diam., S. 28° W., 50 lks. dist., marked T. 16 S., R. 1 W., S. 23 B. T.
	Cedar, 4 ins. diam., bears N. 87° W., 105 lks. dist., m T. 16 S., R. 1 W., S. 14, B. T.
	No other tree within limits; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Pits impracticable.

Subdivision of T. 16 S., R. 1 W.-Continued.

chains.	
	Sand, rolling and level. Soil, sandy loam and gravelly; 1st and 2nd rate. Timber, scattering cedar. Undergrowth, oak and sage brush. Mountainous land, or land covered with dense undergrowth, 80.00 chs.
	N. 89° 54' E., on a random line bet. secs. 13 and 24.
40.00	Set temp. ¼ sec. cor.
80.20	Intersect E. bdy. of Tp. 22 lks. S. of the cor. of secs. 13, 18, 19, and 24, heretofore described. Thence we run S. 89° 45' W., on a true line bet. secs. 13 and 24. Ascend mountain, through heavy cedar timber and oak brush.
1.50	Top of ridge, 20 ft. above cor., bears N. W. and S. E.; descend.
15.00	Hollow, 250 ft. below ridge, course S. 40° W.; leave cedar timber, bears with hollow; ascend gently.
40.10	Set a sandstone, 16x12x6 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which An oak, 6 ins. diam., bears N. 15½° W., 173 lks. dist., marked ¼ S. 13, B. T. No other tree within limits; 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.

Subdivision of T. 16 S., R. 1 W.-

63.50 Wash, 20 lks. wide, 8 ft. deep, course N.

68.70 Wood road, bears N. 60° W. and 60° E.

5.00 Road bears N. and S.

70.20 The cor. of secs. 13, 14, 23, and 24.
Sand, mountainous and level.
Soil, clay loam and gravelly; 1st and 3rd rate.
Good grass for grazing.
Timber, cedar.
Undergrowth, oak.
Mountainous or heavily
d land, or land
with dense under-
growth, 80.20 chs.

N. 0° W., bet. secs. 13 and 14.
Over rolling land, through dense oak brush and scattering cedar timber.

5.75 Wood road bears S. 85° E., and N. 80° W., in swale, course N. 80° W. ascend.

35.00 Top of ridge, 100 ft. above cor., leave cedar timber, bears N. 80 and S. 80° E.; descend.

40.00 Set a sandstone, 14 x 8 x 8 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, 1½ ft. high, W. of cor. Pits impracticable.

55.00 Chriss' Creek, 8 lks. wide, 3 ins. deep, rapid current, rocky bottom in Chriss' Cañon, 200 below ridge, course N. W.; as

Subdivision of T. 16 S., R. 1 W. - Continued.

chains.	
58.30	Old wood road bears N. W. and S. E.
61.00	Enter scattering cedar timber, bears N. W. and S. E.
80.00	Set a sandstone, 20 x 16 x 4 ins., 15 ins. in the ground, for cor. of secs. 11, 12, 13, and 14, marked with 4 notches on S. and 1 notch on E. edges; from which A cedar, 8 ins. diam., bears N. 80° E., 102 lks. dist., marked T. 16 S., R. 1 W., S. 12, B. T. A cedar, 24 ins. diam., bears S. 80° E., 23 lks. dist., marked T. 16 S., R. 1 W., S. 13, B. T. A cedar, 14 ins. diam., bears S. 35° W., 56 lks. dist., marked T. 16 S., R. 1 W., S. 14, B. T. A cedar, 9 ins. diam., bears N. 51° W., 103 lks. dist., marked T. 16 S., R. 1 W., S. 11, B. T.; and raise a mound of stone, 2 ft. base, 2 ft. high, W. of cor. Sand, mountainous. Timber, cedar. Undergrowth, oak, service-berry and choke cherry. Soil, sandy loam and gravelly; 1st and 3rd rate. Good grass for grazing. Sand covered with dense undergrowth, 80.00 chs. June 26, 1898.

June 27, 1898: At 8h 4m a. m., l. m. t., we set off 39° 27' N., on the lat. arc; 23° 20' N., on the decl. arc; and determine a true meridian with the solar at the cor. of

Subdivision of T. 16 S., R. 1 W.-Continued.

Chains	
	secs. 11, 12, 13, and 14. Thence we run N. 89° 45' E., on a random line bet. secs. 12 and 13.
40.00	Set temp. ¼ sec. cor.
80.36	Intersect E. bdy. of Tp. 2 3 lks. N. of the cor. of secs. 7, 12, 13, and 18, tofore described. Thence we S. 89° 55' W., on a true line bet. secs. 12 and 13.
	Over mountainous land, through scattering under-growth; and heavy timber-
1.00	Top of ridge, 10 ft. above cor., N. E. and S. W.; descend.
6.00	Road bears N. E. and S. W., and hollow, 150 ft. below cor., course S. W.; ascend.
10.75	Top of ridge, 90 ft. above hollow, bears N. and S.; descend.
14.50	Hollow, 50 ft. below ridge, course S. 15° E.; ascend.
38.00	Top of steep ascent, 400 ft. hollow, bears N. and S.; thence across mesa.
40.18	Set a sandstone, 20 x 14 x 5 ins., 15 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which
	Cedar, 6 ins. diam., bears N. 4° E., 34 lks. dist., marked ¼ S. 12, B. T.
	Cedar, 20 ins. diam., bears S. 32° E., 70 lks. dist., marked ¼ S. 13, B. T.
50.50	Leave mesa bears N. and S.; descend.
80.36	The cor. of secs. 11, 12, 13, and 14.
	Sand; mountainous.
	Soil, sandy loam and ly; 1st and 3rd rate.
	Good grass for grazing.

Subdivision of T. 16 S., R. 1 W.—Continued.

chains	
	Timber, cedar. Undergrowth, oak. Mountainous or heavily timbered land, 80.36 chs.
	N. 0° 1' W. bet. secs. 11 and 12. Over mountainous land, through scattering cedar timber and oak brush; ascend.
18.00	Top of ridge, 300 ft. above cor., bears N. W. and S. E.; descend.
31.00	Bottom of hollow, 175 ft. below ridge, course W.; ascend.
35.25	Top of ridge, 200 ft. above ravine, bears N. E. and S. 80° W.; descend.
37.25	Bottom of hollow, 50 ft. below ridge, course S. W.; ascend.
40.00	Set a trachyte stone, 18 x 6 x 6 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; from which A cedar, 24 ins. diam., bears S. 45° E., 30 lks. dist., marked ¼ S. 12, B. T. A cedar, 12 ins. diam., bears S. 35° W., 20 lks. dist., marked ¼ S. 11, B. T.
58.00	Top of ridge, 200 ft. above hollow, bears N. W. and S. E.; descend.
69.00	Bottom of cañon, 300 ft. below ridge, course N. W.; ascend.
80.00	Set a sandstone, 18 x 18 x 4 ins., 12 ins. in the ground, for cor. of secs. 1, 2, 11, and 12, marked with 5 notches on S. and 1 notch on E. edges; from which

Subdivision of T. 16 S., R. 1 W.-Con

a cedar, 14 ins. diam., bears
S. 15° E., 80 lks. dist., marked
T. 16 S., R. 1 W., S. 12, B. T.
No other trees within limits;
raise a mound of stone, 2 ft.
, 1½ ft. high, W. of cor.
Pits impracticable.
Sand, mountainous.
Soil, sandy loam and
ly, 1st and 3rd rate.
Timber, cedar.
Undergrowth, oak.
Good grass for grazing.
Mountainous land, 80.00 chs.

N. 89° 55' E., on a random line bet.
secs. 1 and 12.
40.00 Set temp. ¼ sec. cor.
80.50 Intersect E. bdy. of Tp. 12 lks. N. of-
. of secs. 1, 6, 7, and 12, already
described. Thence we run
West, on a true line bet. secs. 1 12.
ascend mountain through
scattering cedar timber
undergrowth.
17.00 Top of divide ridge, between
Chriss' and Little Salt Creek
Cañons, 200 ft. above sec. cor.,
. 30° E. and S. 30° W.; thence along
de of ridge.
32.00 Leave cedar and pinion
timber, bears N. E. and S. W., in
bottom of swale, 40 ft. below
ridge, course N.; ascend.
40.25 Set a sandstone, 18 x 12 x 6 ins., 12
the ground, for ¼ sec. cor.,
¼ on N. face; and raise
mound of stone, 2 ft. base, 1½ ft.
n, N. of cor. Pits impracti

Subdivision of T. 16 S., R. 1 W.-Continued.

chains.	
54.50	Top of same ridge, bears S. 70° E. and W. Enter scattering cedar and pinion pine timber, bears N. and S.
63.00	Leave ridge, bears E. and N. W.; descend abruptly.
80.50	The cor. of secs. 1, 2, 11, and 12. Sand, mountainous. Soil, loam and gravelly; 1st and 3rd rate. Good grass for grazing. Timber, cedar and pinion pine. Undergrowth, oak and mahogany. Mountainous land, 80.50 chs. June 27, 1898: At this cor., we set off 23° 19' N., on the decl. arc; and at 0h 3m p.m., l. m. t., observe the sun on the meridian, the resulting lat. is 39° 27' N.

Note: Knowing from connections already made that the line bet. secs. 1 and 2, will not intersect the ¼ sec. cor., bet. secs. 1 and 2 within the limits, we begin at the ¼ sec. cor., bet. secs. 1 and 2, which is a greatly decayed post, marked and witnessed as described by the surveyor general; the marks are nearly obliterated, therefore we destroy all traces of old cor. and reestablish it at the same point as follows: Set a gray limestone, 18x12x4 ins., 12 ins. in the ground, for rec-

Subdivision of T. 16 S., R. 1 W.-Continued.

ains established ¼ sec. cor., marked ¼
on W. face; from which
A cedar, 12 ins. diam., bears
N. 84° E., 45 lks. dist., marked
¼ S. 1, B. T.
A cedar, 10 ins. diam., bears
S. 9° W., 29 lks. dist., marked
¼ S. 2, B. T.
Thence we run
S. 0°. 01' E., on a true line bet. the S.
halves of secs. 1 and 2.
Over mountainous land,
through heavy cedar and
pinion pine timber;
11.50 Spring branch, 3 lks. wide, 2
deep, in bottom of hollow, 200
below ¼ sec. cor., course N. W.;
16.50 Top of spur, 300 ft. above
N. W. and S. E.; descend.
1.75 Bottom of hollow, 150 ft. below
spur, course N. W.; ascend.
27.00 Top spur, 175 ft. above holl
N. W. and S. E.; descend.
34.50 Creek, 2 lks. wide, 2 ins. deep, in
cañon, 300 ft. below spur,
S. W.; ascend.
40.00 Top of spur, 200 ft. above
and W.; descend.
48.50 Bottom of cañon, 300 ft. below
spur, course N. 60° W.; ascend.
0.30 Intersect E. and W. line 30.60
West of the cor. of secs. 1, 2, 11, and 1
Set a sandstone, 18 x 8 x 5 ins.,
12 ins. in the ground, for clos-
ing cor. of secs. 1 and 2, mark-
ed C. C. on N., with 5 grooves on
and 1 groove on E. face; from
which
A cedar, 12 ins. diam., bears
N. 8° E., 50 lks. dist., marked
T. 16 S., R. 1 W., S. 1, B. T.

chains.	
	A cedar, 10 ins. diam., bears N. 60° W., 48 lks. dist., marked T. 16 S., R. 1 W., S. 2, B. T.
	Note: We destroy all marks on the cor. of secs. 1, 2, 11, and 12, which pertain to secs. 1 and 2.
	Sand, mountainous.
	Soil, clay loam and slate rock; 2nd and 4th rate.
	Timber, cedar and pinion pine.
	Good grass for grazing.
	Mountainous or heavily timbered land, 50.30 chs.
	From the connection just made, we are led to believe that the line bet. the N. halves of secs. 1 and 2 is not a North line; therefore we proceed to retrace said line as follows:
	From the reestablished ¼ sec. cor. bet. secs. 1 and 2, we run North, on a retracement line bet. the N. halves of secs. 1 and 2.
39.98	Intersect the Third Standard Parallel South 1.40 chs. E. of the standard cor. of secs. 35 and 36, heretofore described.
	The course of this line is therefore N. 2° W. length of line 40 chs.
	June 27, 1898.
	June 28, 1898; At 8h 5m a.m., l.m.t., we set off 39° 23' N., on the lat. arc; 23° 17' N., on the decl. arc; and determine a true merid

Subdivision of T. 16 S., R. 1 W.—Continued.

	ian with the solar at the cor. of secs. 34 and 35 on S. bdy. of Tp., heretofore described. Thence we run N. 0° 1' W., bet. secs. 34 and 35. Descend mountain, through heavy cedar timber.
1.00	Hollow, 30 ft. below sec. cor., S. 80° W.; ascend.
15.00	Ridge, 300 ft. above hollow, bears N. 60° E. and S. 60° W.; descend.
26.50	Hollow, 300 ft. below ridge, course S. 80° W.; ascend.
40.00	Set a sandstone, 18 x 10 x 6 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; from which
	A cedar, 20 ins. diam., bears N. 32° W., 70 lks. dist., marked ¼ S. 34, B. T.
	A cedar, 30 ins. diam., bears N. 46° E., 20 lks. dist., marked ¼ S. 35, B. T.
58.00	Top of spur, 150 ft. above hollow, bears E. and W.; descend.
66.50	Hollow, 160 ft. below spur, course S. 80° W.; ascend.
79.80	Top of ridge, 150 ft. above hollow, bears N. E. and S. W.; descend.
80.00	Set a sandstone, 18 x 8 x 6 ins., 12 ins. in the ground, for the cor. of secs. 26, 27, 34, and 35, marked with 1 notch on S. and 2 notches on E. edges; from which
	A pinion pine, 14 ins. diam., bears N. 49° E., 50 lks. dist., marked T. 16 S., R. 1 W., S. 26, B. T.
	A pinion pine, 8 ins. diam., bears S. 87° E., 60 lks. dist., marked T. 16 S., R. 1 W., S. 35, B. T.
	A cedar, 8 ins. diam., bears

Subdivision of T. 16 S., R. 1 W.- Continued.

chains.	
	S. 58° W., 15 lks. dist., marked T. 16 S., R. 1 W., S. 34, B. T.
	A cedar, 7 ins. diam., bears N. 59° W., 33 lks. dist., marked T. 16 S., R. 1 W., S. 27, B. T.
	Sand, mountainous.
	Soil, loam and rocky; 1st and 4th rate.
	Good grass for grazing.
	Mountainous or heavily timbered land, 80.00 chs.
	N. 89° 39' E., on a random line bet. secs. 26 and 35.
40.00	Set temp. ¼ sec. cor.
79.90	Intersect N. and S. line 28 lks. N. of the cor. of secs. 25, 26, 35, and 36.
	Thence we run S. 89° 51' W., on a true line bet. secs. 26 and 35.
	Over mountainous land, through scattering timber; ascend.
5.00	Enter heavy timber, bears N. and S.
35.00	Top of ridge, 150 ft. above hollow; bears S. 20° W. and N. 15° E.; descend.
39.95	Set a sandstone, 18 x 12 x 10 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which
	A pinion pine, 5 ins. diam., bears N. 73° W., 51 lks. dist., marked ¼ S. 26, B. T.
	A pinion pine, 12 ins. diam., bears S. 71° W., 50 lks. dist., marked ¼ S. 35, B. T.;
	and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

Subdivision of T. 16 S., R. 1 W.—Continued.

63.50	Hollow, 100 ft. below ridge, cour. S. 48° W.; ascend.
78.70	Top of ridge, bears N. E. and S. W.; descend.
79.90	The cor. of secs. 26, 27, 34, and 35. Sand, mountainous. Soil, loam and rocky; 1st and 4th rate. Timber, cedar and pinion pine. Good grass for grazing. Mountainous or heavily wooded land, 79.90 chs.

N. 0° 1' W., bet. secs. 26 and 27. Descend mountain through heavy cedar timber.

19.50	Leave cedar timber, bears E. and W.
24.00	Bottom of cañon, 350 ft. below ridge, course S. 55° W.; ascend very abruptly.
34.50	Top of ridge, 200 ft. above bears N. 65° E. and S. 48° W. Enter scattering cedar timber, bea with ridge; descend
40.00	Set a porphyry stone, 14 x 12 x 10 ins. in the ground, for ¼ sec. marked ¼ on W. face; from which

A cedar, 30 ins. diam., bears N. 70° E., 30 lks. dist., marked ¼ S. 26, B. T.

A cedar, 25 ins. diam., bears N. 66° W., 33 lks. dist., marked ¼ S. 27, B. T.;

raise a mound of stones 4 ft. base, 1½ ft. high, W. of cor.

Subdivision of T. 16 S., R. 1 W. - Continued.

chains.	
40.15	Bottom of ravine, 150 ft. below ridge, course N. 85° W.; ascend.
42.25	Spur, 70 ft. above ravine, bears E. and W.; descend.
43.25	Enter heavy cedar timber, bears E. and W.
46.50	Bottom of canon, 140 ft. below ridge, course S. 37° W.; ascend.
80.00	Set a gray limestone, 24x12x4 ins., 18 ins. in the ground, for cor. of secs. 22, 23, 26, and 27, marked with 2 notches on S. and E. edges; from which A cedar, 16 ins. diam., bears N. 30° E., 45 lks. dist., marked T. 16 S., R. 1 W., S. 23, B. T. A cedar, 12 ins. diam., bears N. 39° 38' W., 48 lks. dist., marked T. 16 S., R. 1 W., S. 22, B. T. A cedar, 20 ins. diam., bears S. 74° 30' E., 68 lks. dist., marked T. 16 S., R. 1 W., S. 26, B. T. A cedar, 8 ins. diam., bears S. 21° W., 73 lks. dist., marked T. 16 S., R. 1 W., S. 27, B. T. Sand, mountainous, very rough. Soil, sandy and clay loam; and rocky; 1st, 2nd and 4th rate. Good grass for grazing. Timber, cedar and pinion pine. Mountainous or heavily timbered land, 80.00 chs.
	N. 89° 51' E., on a random line bet. secs. 23 and 26.
40.00	Set temp. ¼ sec. cor.

Subdivision of T. 1 S., R. 1 W.- Continued.

Chains.	
40.10	Intersect N. and S. line 21 lks. N. of the cor. of secs. 23, 24, 25, and 26. Thence west, on a true line bet. secs. 23 and 26. Over mountainous land, through scattering timber and undergrowth.
19.40	Wood road bears N. and S.
40.05	Top of ridge, 40 ft. above sec. cor., bears N.E. and S.W.; descend. Set a granite stone, 16 x 10 x 4 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which A cedar, 7 ins. diam., bears N. 60° W., 25 lks. dist., marked ¼ S. 23, B.T. A pinion pine, 8 ins. diam., bears S., 40 lks. dist., marked ¼ S. 26, B.T.
63.50	Hollow, 100 ft. below ridge, course S. 48° W.; ascend.
80.10	The cor. of secs. 22, 23, 26, and 27. Sand, mountainous. Soil, clay loam and rocky; 1st and 3rd rate. Good grass for grazing. Timber, cedar, and nut pine. Undergrowth, scattering sagebrush. Mountainous land, 80.10 chs. June 28, 1898: At this cor., we set off 23° 16' N., on the decl. arc; and at 0h 4m p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 39° 25' N., which is about 8'.7 greater than the proper lat.

Subdivision of T. 16 S., R. 1 W. - Continued.

chains.	
	N. 0° 1' W., bet. secs. 22 and 23. Over mountainous land, through scattering cedar and pinion pine timber and undergrowth; descend.
11.00	Top of spur, 60 ft. above hollow, bears N.E. and S.W.; descend.
14.00	Bottom of hollow, 40 ft. below spur, course S. 60° W.; ascend.
19.50	Top of spur, 60 ft. above hollow, bears N. 70° E. and S. 70° W.; descend.
33.25	Bottom of hollow, 80 ft. below spur, course S. W.; ascend.
39.25	Top of ridge, 60 ft. above hollow, bears N.W. and S.E.; descend.
40.00	Set a gray limestone, 26 x 6 x 4 ins., 19 ins. in the ground, for 4 sec. cor., marked 4 on W. face; from which An oak, 3 ins. diam., bears N. 50° E., 65 lks. dist., marked 4 S. 23, B.T. A cedar, 4 ins. diam., bears S. 79° W., 200 lks. dist., marked 4 S. 22, B.T.
61.00	Bottom of hollow, 50 ft. below ridge, course E.; ascend.
64.50	Top of ridge, 20 ft. above hollow, bears E. and W.; descend.
79.50	Bottom of hollow, 60 ft. below ridge, course N.E.; ascend.
80.00	Set a gray limestone, 20 x 8 x 6 ins., 15 ins. in the ground, for cor. of secs. 14, 15, 22, and 23, marked with 3 notches on S. and 2 notches on E. edges; from which A cedar, 14 ins. diam., bears N. 85° E., 15 lks. dist., marked T. 16 S., R. 1 W., S. 14, B.T.

Subdivision of T. 16 S., R. 1 W.

a cedar, 20 ins. diam., bears S. 51° E., 75 lks. dist., marked T. 16 S., R. 1 W., S. 23, B. T.
a cedar, 8 ins. diam., bears S. 30° W., 10 lks. dist., marked T. 16 S., R. 1 W., S. 22, B. T.
a cedar, 12 ins. diam., N. 31° W., 60 lks. dist., marked T. 16 S., R. 1 W., S. 15, B. T.

Sand, mountainous.
Soil, clay and gravelly loam; 2nd rate.
Timber, cedar and pinion pine.
Undergrowth, oak and sage brush.
Good grass for grazing.
Mountainous land, 80.00 chs.

East, on a random line bet. secs. 14 and 23.
40.00 Set temp. ¼ sec. cor.
80.22 Intersect N. and S. line 20 lks. N. of the cor. of secs. 13, 14, 23 and 24.
Thence we run
N. 89° 51' W., on a true line bet. secs. 14 and 23.
Over mountainous land, through scattering timber and undergrowth; ascend.
9.50 Top of ridge, 150 ft. above cor., bears N. and S.; descend.
40.11 Set a sandstone, 22 x 20 x 4 ins., 1 6 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which
a cedar, 4 ins. diam., N. 35° W., 60 lks. dist., marked ¼ S. 14, B. T.

Subdivision of T. 16 S., R. 1 W.-Continued.

Chains	
	A pinon pine, 10 ins. diam., bears S. 50° W., 50 lks. dist., marked ¼ S. 23, B. T.
40.85	Bottom of hollow, 100 ft. below ridge, course N. W.; ascend.
49.50	Wood road bears N. W. and S. E.
54.50	Top of sharp ridge, 75 ft. above hollow, bears N. W. and S. E.; descend.
67.50	Bottom of hollow, 80 ft. below ridge, course N.; ascend.
75.50	Top of ridge, 60 ft. above hollow, bears N. and S.; descend.
79.50	Bottom of hollow, 50 ft. below ridge, course N. E.; ascend.
80.22	The cor. of secs. 14, 15, 22, and 23.
	Land, mountainous.
	Soil, clay and gravelly loam; 2nd rate.
	Timber cedar, and pinon pine.
	Undergrowth, oak and sage brush.
	Good grass for grazing.
	Mountainous land, 80.22 chs.

	N. 0° 1' W., bet. secs. 14 and 15.
	Over mountainous land through heavy cedar and pinon pine timber; ascend.
6.00	Top of spur, 20 ft. above cor., bears N. 70° W. and S. 70° E.; descend.
15.50	Creek, 3 lks. wide, 3 ins. deep; in canon, 100 ft. below spur, course N. 70° W.; ascend.
39.75	Top of spur, 150 ft. above canon bears N. W. and S. E.; descend.
40.00	Set a sandstone, 20 x 12 x 9 ins., 15 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; from which
	A cedar, 4 ins. diam., bears N. 56° E.; 59 lks. dist., marked ¼ S. 14, B. T.
	A cedar, 4 ins. diam., bears N. 22° W., 75 lks. dist., marked ¼ S. 15, B. T.

Subdivision of T. 16 S., R. 1 W. - Continued.

Chains	
50.00	Bottom of hollow 90 ft below spur, course W.; ascend.
62.00	Top of ridge, 110 ft above hollow, bears E. and W.; descend.
69.00	Road, bears N. 80° E. and S. 80° W., in canion, 100 ft. below ridge, course S. 80° W.; ascend.
80.00	Set a trachyte stone, 20 x 12 x 12 ins., 15 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; from which A cedar, 6 ins. diam., bears N. 51° E., 40 lks. dist., marked T. 16 S., R. 1 W., S. 11, B. T. A cedar, 5 ins. diam., bears S. 45° E., 60 lks. dist., marked T. 16 S., R. 1 W., S. 14, B. T. No other trees within limits; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. Sand, mountainous. Soil, gravelly loam; 2nd rate. Timber, cedar and pinon pine. Good grass for grazing. Mountainous or heavily timbered land, 80.00 chs.

S. 89° 51' E., on a random line bet. secs 11 and 14.

40.00	Set temp ¼ sec. cor.
80.30	Intersect N. and S. line, 25 lks. N. of the cor. of secs. 11, 12, 13, and 14.

Thence we run N. 89° 40' W., on a true line bet. 11 and 14.

Over mountainous land

Subdivision of T.16 S., R.1 W. - Continued.

Chains	
	through heavy cedar and pinon pine timber; descend.
28.25	Wagon road bears N. W. and S. E.
31.40	Chriss' Creek, 10 lks. wide, 4 ins. deep, rapid current, rocky bottom in bottom of Chriss' Canon, 300 ft. below cor., course N. W.; ascend.
40.15	Set a limestone, 14 x 10 x 8 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; from which A cedar, 10 ins. diam., bears N., 18 lks dist.; marked 1/4 S. 11 B. T. A cedar, 6 ins. diam., bears S. 20° W., 18 lks. dist.; marked 1/4 S. 14, B. T.
56.00	Top of ridge 200 ft. above cañon, bears N. W. and S. E.; descend.
62.50	Bottom of hollow, 40 ft. below ridge, course N. W.; ascend.
75.50	Top of ridge 50 ft. above hollow, bears N. 60° W. and S. 60° E.; descend.
80.30	The cor. of secs. 10, 11, 14, and 15. Land, mountainous. Soil, clay loam and gravelly; 2nd and 3rd rate. Timber, cedar and pinon pine. Good grass for grazing. Mountainous or heavily timbered land, 80.30 chs.

June 28, 1898.

Subdivision of T. 16 S. R. 1 W. - C

Transcribe

June 29, 1898. At 8h 3m a.m., l. m. t. we set off 39°27' N., on the lat. arc. 23°14' N. on the decl. arc. and determine a true meridian with the solar at the cor. of secs. 10, 11, 14 and 15. Thence we run N. 0°01' W., bet. secs. 10 and 11.

40.00 Set temp. ¼ sec. cor.

87.00 Intersect E. and W. line 29.50 chs E. of cor. of secs. 2, 3, 10, and 11, which is a greatly decayed post, marked and witnessed as described by the surveyor general.

Note.- Before completing this line, in order to preserve uniformity in secs. 10 and 15, as nearly as possible, we ascertained that the N. E. cor. of Sec. 15 should be placed N. 0°1' W. 3.90 chs. from the N. W. cor. of sec. 14, therefore we proceed as follows;

From the cor. of secs. 2, 3, 10, and 11, we run S. 2° E. on a true line bet. secs. 10 and 11, parallel to W. bdy. of sec.

Over mountainous land through scattering cedars, ascend.

13.25 Top of ridge, 35 ft. above sec. bears E. and W.; descend.

15.00 Foot of mountain, bears N. 55° W. and S. 65° E.

16.50 Wagon road, bears N. 55° W., S. 65° E.

21.00 Water ditch, 20 lks. wide, 6 ins.

Subdivision of T. 16 S. R. 1 W.-Continued.

Chains	
	deep, course N. 65° W.
23.00	Wash 25 lks wide, 6 ft. deep course N. 65° W.
	Leave scattering timber and enter scattering sage undergrowth.
40.00	Set a trachyte stone, 17 x 15 x 10 ins., 11 ins. in the ground for ¼ sec. cor., marked ¼ 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, 4 ft. base, 1½ ft. high, W. of cor.
53.00	Foot of mountain, bears E. and W.; ascend. Leave scattering sagebrush, enter scattering timber.
78.00	Top of ridge, 200 ft. above wash bears N. 60° E. and S. W.; descend.
83.10	Intersect E. and W. line 26.62 chs. W. of N. E. cor. of sec. 15, hereafter described.
45.10 / 38°	Set a trachyte stone, 18 x 9 x 6 ins., 12 ins. in the ground for closing cor. of secs. 10 and 11, marked with C. C. on N. 4 grooves on S. and 2 grooves on E. faces; and raise a mound of stone 2 ft. base, 1½ ft. high, N of cor. Pits impracticable.
	Land, mountainous and nearly level.
	Soil, clay and gravelly loam, 2nd rate.
	Timber cedar and pinon pine.
	Undergrowth sagebrush
	Good grass for grazing.
	Mountainous land 45.10 chs.

X

Subdivision of T.16 S., R.1 W.- Continued.

Chains	
	We destroy all traces of the old cor. of secs. 2, 3, 10, and 11, and reestablish it at the same point as follows:
	Set a sand stone, 20 x 12 x 6 ins 15 ins. in the ground, for cor. of secs. 2, and 3, marked with 5 notches on S. and 2 notches on E. edges; from which
	A pinon pine, 12 ins. diam., bears N. 62° E. 15 lks. dist., marked T.16 S. R.1 W., S. 2 B. T.
	A cedar, 12 ins. diam., bears N. 33°30' W., 30 lks. dist., marked T.16 S., R.1 W., S. 3. B.T.
	Note.- Knowing from connections already made that the line bet. secs. 2 and 11 will not fall within the prescribed limits of the closing cor. of secs. 1 and 2, Therefore we run East on a true line bet. secs. 2 and 11.
	Over mountainous land through heavy timber, descend gradually.
5.00	Leave timber bears N. and S.
25.00	Find no trace of foot of an cor.
39.60	Bottom of hollow 80 ft. below cor., course N.W.; enter scattering bears with hollow; ascend.
40.00	Set a sandstone, 24 x 12 x 6 ins., 18 ins in the ground, for ¼ sec. cor., marked ¼ on N. face; from which
	A cedar, 12 ins. diam. bears N. 10° W. 60 lks. dist., marked ¼ S. 2 B. T.

Subdivision of T. 16 S., R. 1 W.—Continued.

chains.	
	A cedar, 6 ins. diam., bears S. 37° E., 142 lks. dist., marked ¼ S. 11, B. T.
50.00	Top of spur, 175 ft. above hollow; bears N. W. and S. E.; descend.
61.00	Bottom of cañon, 250 ft. below spur, course N. W.; ascend top of ridge, bears E.
79.10	Intersect N. and S. line, 7.35 chs. N. of the closing cor. of secs. 1 and 2. Set a hard sandstone, 24 x 14 x 4 ins., 18 ins. in the ground, for closing cor. of secs. 2 and 11, marked C. C. on W., with 5 grooves on S. and 1 groove on E. faces; from which
	A cedar, 12 ins. diam., bears S. 74° 30' W., 53 lks. dist., marked T. 16 S., R. 1 W., S. 11, B. T.
	A cedar, 5 ins. diam., bears N. 35° W., 19 lks. dist., marked T. 16 S., R. 1 W., S. 2, B. T.
	Note: We destroy all marks on the closing cor. of secs. 1 and 2, and remark it for S. W. cor. of sec. 1.
	Sand, mountainous.
	Soil, clay and gravelly loam; 2nd rate.
	Timber, cedar and pinion pine.
	Good grass for grazing.
	Mountainous or heavily timbered land, 79.10 chs.
	From the reestablished cor. of secs. 2 and 3, we run North, on a retracement line bet. secs. 2 and 3.
40.00	Find no trace of old ¼ sec. cor.
80.92	Intersect the Third Standard Parallel South, 2.82 chs.

chains	
	N. 88° 30' E. of the standard cor. of secs. 34 and 35.
	Thence we run
	S. 2° E., on a resurvey line bet. secs. 2 and 3.
	Over nearly level land, through scattering under-growth.
4.00	Country road leading from Sevan to Fayette, bears N. 30° E. and S. 30° W.
25.25	Wash, 10 lks. wide, 6 ft. deep, course N. 70° W.
40.42	Find no trace of old ¼ sec. cor. Set a hard sandstone, 20 x 14 x 6 ins., 15 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 impractic-able.
60.00	Begin ascent of mountain, bears E. and W.
75.00	Leave undergrowth and enter heavy cedar and pin-ion timber, bears E. and W.
80.90	The re-established cor. of secs. 2 and 3.
	Sand, mountainous and nearly level.
	Soil, clay and gravelly 2nd rate.
	Timber, cedar and pinion pine.
	Undergrowth, sagebrush and shadscales.
	Mountainous or heavily timbered land, 80.90 chs.
	June 29, 1898: At the noon the sky is overcast and sol observations are impossible.

Subdivision of T. 16 S., R. 1 W.-Continued.

chains	
	From the cor. of secs. 33 and 34, on S. bdy. of Tp. heretofore described, we run
	N. 0° 2' W., on a random line bet. secs. 33 and 34.
41.45	The ¼ sec. cor., bet. secs. 33 and 34, which is a decayed post, marked and witnessed as described by the surveyor general, bears West, 17.50 chs.
	We destroy all traces of the old ¼ sec. cor., and reestablish it at the same point as follows:
	Set a limestone, 16 x 10 x 8 ins., 11 ins. in the ground, for reestablished ¼ sec. cor., marked ¼ on W. face; from which
	Cedar, 4 ins. diam., bears S. 30° E., 10 lks. dist., marked ¼ S. 34, B. T.
	Cedar, 4 ins. diam., bears N. 38° 30' W., 113 lks. dist., marked ¼ S. 33, B. T.
	Thence we run
	S. 0° 2' E., on a true line bet. the S. halves of secs. 33 and 34.
	Over rolling land, through heavy cedar and pinion pine timber.
19.00	Sec. 4 timber and enter dense undergrowth, bears E. and W.
41.45	Intersect S. bdy. of Tp. 17.50 chs. S. 89° 39' W., of the cor. of secs. 33 and 34.
	Set a trachyte stone, 14 x 10 x 8 ins., 9 ins. in the ground, for closing cor. of secs. 33 and 34, marked C. C. on N., with 3 grooves on E. and W. faces; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
	Note: We destroy all marks on the cor. of secs. 33 and 34, which pertain to secs. 33 and 34.

Subdivision of T. 16 S., R. 1 W. - Continued.

Sand, rolling.
Soil, clay loam; 2nd rate.
Timber, cedar and pinion pine.
Undergrowth, sagebrush.
Good grass for grazing.
Heavily timbered land, or land covered with dense undergrowth, 41.45 chs.

From the reestablished 1/4 sec. cor., bet. secs. 33 and 34, we run
North, on a retracement line bet. the North halves of secs. 33 and 34. At 40.00 chs., find no trace of the cor. of secs. 27, 28, 33, and 34, therefore we
line north, finding no corners at all on the line, at 445.09 chs.
Intersect the Third Standard Parallel South, 15.53 chs. N. 88° 30' E., of the standard cor. of secs. 33 and 34, heretofore described.
The falling answers to a of 2° or 2.82 chs. W. mile, counting from the 1/4 sec. cor., bet. secs. 33 and 34; the length of each mile be 80.90 chs.

June 29, 1898.

June 30, 1898: At 8h 0m a.m., l. ., we set off 39° 28' N., on the lat. 23° 10' N., on the decl. arc; and

Subdivision of T. 16 S., R. 1 W. - Continued.

chains	
	determine a true meridian with the solar at the standard cor. of secs. 33 and 34. Thence we run S. 2° E., on a resurvey line bet. secs. 3 and 4. Over nearly level land, through scattering undergrowth.
37.00	Wire fence bears E. and W.
40.45	Find no trace of old ¼ sec. cor. Set a sandstone, 16x10x5 ins., 11 ins. in the ground, for reestablished 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.
41.74	Wire fence bears E. and W.
43.00	Wash, 20 lks. wide, 3 ft. deep, course N.W.
76.00	Wash, 20 lks. wide, 4 ft. deep, course W.
80.90	We find slight traces of old cor., which is identified as being the original cor. by Isaac Pierce. Set a sandstone, 18x8x6 ins., 12 ins. in the ground, for reestablished cor. of secs. 3, 4, 9, and 10, marked with 5 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. Sand, nearly level. Soil, clay loam; 2nd rate. No timber. Undergrowth, sage-brush. Good grass for grazing.

Subdivision of T. 16 S., R. 1 W. - Continued.

chains.	
	S. 2° E., on a resurvey line bet. secs. 9 and 10. Over nearly level land, through scattering under-growth.
2.47	Wire fence bears E. and W.
3.25	Wash, 20 lks. wide, 6 ft. deep, course S. 50° W.
5.60	Wash, 30 lks. wide, 4 ft. deep, course S. 50° W.
27.50	Road leading from Pierce's ranch to Sevier River, bears N. 57° E. and S. 57° W.
31.10	Wash, 30 lks. wide, 7 ft. deep, course S. 57° W.
40.45	Find no trace of old ¼ sec. cor. Set a sandstone, 14 x 12 x 6 ins., 9 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; dig pits, 18 x 18 x 12 ins., N. and S. of 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
0.90	Find no trace of old ~~cor. of~~ sec. 9, 10, 15, and 16. Set a sandstone, 16 x 10 x 6 ins., 11 ins. in the ground, for reestablished ~~cor. of~~ Secs. 9, 10, 15, and 16, marked with 4 notches on S. and 3 notches on E. edges; dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. dist., and raise a mound of earth, 4 base, 2 ft. high, W. of cor. Sand, nearly level. Soil, clay loam; 2nd rate. No timber. Undergrowth, sagebrush and shadscales. Good grass for grazing.

Subdivision of T. 16 S., R. 1 W.-Continued.

chains	
	S. 2° E., on a resurvey line bet. secs. 15 and 16. Over nearly level land, through dense undergrowth.
6.50	County road, leading from Sevan to Fayette, bears N. 20° E. and S. 20° W.
32.20	Road leading to Pierce's Cañon, bears N. 60° E. and S. 60° W.
40.45	Find no trace of old ¼ sec. cor. Set a hard sandstone, 20 x 10 x 8 ins., 15 ins. in the ground, for reestablished ¼ sec. cor., marked ¼ 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.
66.85	Wash, 6 lks. wide, 2 ft. deep, course W.
80.90	Find no trace of old cor. of secs. 15, 16, 21, and 22. Set a red granite stone, 24 x 24 x 16 ins., 18 ins. in the ground, for reestablished cor. of secs. 15, 16, 21, and 22, marked 16 S. on N. E. and 1 W. on S. E. faces; with 3 notches on S. and E. edges; from which Cedar, 24 ins. diam, bears S. 40° E., 285 lks. dist., marked T. 16 S., R. 1 W., S. 22, B. T. No other trees within limits; 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, nearly level. Soil, clay loam; 2nd rate. No timber. Undergrowth, sagebrush

Subdivision of T. 1 S., R. 1 W.-Continued.

ains and shadscales.
good grass for grazing.
Sand covered with dense
undergrowth, 80.90 chs.

.2° E., on a resurvey line bet.
1 and 22.
Over rolling land, through
undergrowth; ascend
gradually.
38.00 Top of spur, 60 ft. above sec. cor.,
bears N.E. and S.W.; enter scat-
cedar timber, bears with
spur; descend.
40.45 Find no trace of old ¼ sec. cor.
et a limestone, 20 x 7 x 6 ins., 15 ins.
in the ground, for ¼ sec. cor.,
d ¼ on W. face; from
Cedar, 6 ins. diam., bears N.
25° E., 25 lks. dist., marked
¼ S. 22, B.T.
no other trees within limits;
a mound of stone, 2 ft.
base, 1½ ft. high, W. of cor.
Pits impracticable.
45.50 Wash, 30 lks. wide, 5 ft. deep,
W.; ascend.
50.0 Top of spur, 40 ft. above wash,
bears E. and W.; descend
ally.
80.9 Find no trace of old cor. of
Cs. 21, 22, 27, and 28.,
Set a hard sandstone, 16 x 8 x
11 ins. in the ground, for
cor. of secs. 21,
22, 27 and 28, marked with
2 notches on S. and 3 notches
E. edges; dig pits, 18 x 18 x 12 ins.,
each sec., 5½ ft. dist., and

Subdivision of T. 16 S., R. 1 W.-Continued.

chains	
	raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Sand, rolling.
	Soil, clay and gravelly loam; 2nd rate.
	No timber.
	Undergrowth, sagebrush and shadscales.
	Good grass for grazing.
	Sand covered with dense undergrowth, 80.90 chs.
	June 30, 1898: At this cor., we set off 23° 9' N., on the decl. arc; and at 11h 55m a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 39° 25' N., which is about 0'.4 greater than the proper lat.
	S. 2° E., on a resurvey line bet. secs. 27 and 28.
	Over nearly level land, through dense undergrowth.
30.00	Begin ascent of ridge, bears E. and W.
38.00	Top of ridge, 50 ft. above sec. cor., bears N. 80° E. and S. 80° W.; enter scattering timber, bears with ridge; descend.
40.45	Find no trace of old ¼ sec. cor. Set a granite stone, 14 x 12 x 8 ins., 9 ins. in the ground, for re-established ¼ sec. cor., marked ¼ on W. face; from which
	a cedar, 8 ins. diam., bears N. 47° E., 179 lks. dist., marked ¼ S. 27, B. T.
	a cedar, 5 ins. diam., bears N. 38° W., 90 lks. dist., marked

Subdivision of T. 16 S., R. 1 W.-Continued.

chains.	
	4 S. 28, B. T.
56.00	Foot of mountain, bears N. 30° and S. 30° E.
	Scave cedar timber, bears E. and W.
75.00	Wash, 20 lks. wide, 3 ft. deep, course W.
80.90	Find no trace of old cor. of secs. 27, 28, 33 and 34.
	Set a limestone, 16x10x8 ins., 11 in the ground, for rec'd cor. of secs. 27, 28, 33 and 34, marked with 1 notch on S. and 3 notches on E. edges; from which
	A cedar, 6 ins. diam., bears N. 60° 30' E., 67 lks. dist., marked T. 16 S., R. 1 W., S. 27, B. T.
	A cedar, 20 ins. diam., bears S. 34° E., 57 lks. dist., marked T. 16 S., R. 1 W., S. 34, B. T.
	A cedar, 24 ins. diam., S. 72° W., 40 lks. dist., marked T. 16 S., R. 1 W., S. 33, B. T.
	A cedar, 8 ins. diam., bears N. 35° W., 174 lks. dist., T. 16 S., R. 1 W., S. 28, B. T.
	Sand, nearly level and rolling.
	Soil, clay and gravelly 2nd rate.
	Timber, cedar.
	Undergrowth, sagebrush.
	Good grass for grazing.
	Sand covered with dense undergrowth, 80.90 chs.
	S. 2° E., on a resurvey line bet. e N. halves of secs. 33 and 34.

Subdivision of T.16S., R.1W.-Continued.

chains	
	Over rolling land, through heavy timber.
✓ 40.45	The reestablished ¼ sec. cor., bet. secs. 33 and 34.
	Land, rolling.
	Soil, clay loam; 2nd rate.
	Timber, cedar.
	Good grass for grazing.
	Heavily timbered land, 40.45 chs.
	From the reestablished cor. of secs. 27, 28, 33 and 34, we run East, on a random line bet. secs. 27 and 34.
26.00	find no trace of foot of mountain cor.
40.00	Set temp. ¼ sec. cor.
98.90	Intersect N. and S. line, 1.28 chs. N. of W. of the cor. of secs. 26, 27, 34 and 35.
	The falling is outside the limits, therefore we set a sandstone, 16x7x6 ins., 11 ins. in the ground, for closing cor. of secs. 27 and 34, marked C.C. on W.; with 1 groove on S. and 2 grooves on E. faces; from which
	A cedar, 8 ins. diam., bears S. 20° W., 135 lks. dist., marked T.16S., R.1W., S.34, B.T.
	A cedar, 7 ins. diam., bears N. 30° W., 30 lks. dist., marked T.16S., R.1W., S.27, B.T.
	Note: We destroy all marks on the cor. of secs. 26, 27, 34 and 35, which pertain to secs. 27 and 34.
	Thence we run West, on a true line bet. secs. 27 and 34.
	Over mountainous land,

Subdivision of T. 16 S., R. 12 W.-Continued.

through scattering cedar and pinion pine timber; descend.

10.00 Hollow, 50 ft. below sec. cor., N.; ascend.

7.85 Top of ridge, 200 ft. above cor., bears N. and S.; descend.

33.65 Bottom of hollow, 90 ft. below ridge, course S.; ascend gradually.

40.00 Set a sandstone, 16x10x8 ins., in the ground, for 1/4 sec. cor., marked 1/4 on N. face; from

a pinion pine, 8 ins. diam., bears N. 30 lks. dist., marked 1/4 S. 27, B. T.

a cedar, 6 ins. diam., bears S. 75° E., 55 lks. dist., marked 1/4 S. 34, B. T.

49.40 Top of sharp ridge, 100 ft. ab hollow, bears N. and S.;

1.00 Foot of mountain, bears N. 30° and S. 30° E.

8.90 The cor. of secs. 27, 28, 33 and 34.

Sand, mountainous.

Soil, clay loam and gravel; 2nd and 3rd rate.

Timber, cedar and pinion pine.

Good grass for grazing.

Mountainous or heavily land, 98.90 chs.

June 30, 1898.

July 1, 1898: At 8h. 00m. a.m., l.m.t., set off 39° 25' N., on the lat. 3° 06' N., on the decl. arc; and determine a true

Subdivision of T. 16 S., R. 1 W.-Continued.

chains	
	with the solar, at the cor. of secs. 21, 22, 27, and 28.
	Thence we run
	East, on a random line bet. secs. 22 and 27.
15.50	Find no trace of, foot of mountain cor.
40.00	Set temp. 1/4 sec. cor.
101.74	Intersect N. and S. line, 2.14 chs. No. W. of the cor. of secs. 22, 23, 26, and 27.
	Set a gray limestone, 18x16x10 ins., 12 ins. in the ground, for closing cor. of secs. 22 and 27, marked C. C. on W.; with 2 grooves on S. and 2 grooves on E. faces; from which
	A cedar, 18 ins. diam., bears S. 25° W., 70 lks. dist., marked T. 16 S., R. 1 W., S. 27, B. T.
	A cedar, 24 ins. diam., bears N. 68° W., 19 lks. dist., marked T. 16 S., R. 1 W., S. 22, B. T.
	Note: We destroy all marks on the cor. of secs. 22, 23, 26 and 27, which pertain to secs. 22 and 27.
	Thence we run
	West, on a true line bet. secs. 22 and 27.
	Over mountainous land, through heavy cedar timber; descend.
3.25	Top of spur, 30 ft. above hollow; bears N. E. and S. W.; descend.
23.25	Bottom of hollow, 60 ft. below ridge, course S. W.; ascend gradually.
30.00	Leave timber and enter dense undergrowth, bears N. E. and S. W.;
40.00	Set a hard sandstone, 20x12x7 ins.,

Subdivision of T. 16 S., R. 1 W.-Continued.

chains	
	15 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.
44.50	Leave undergrowth and enter heavy timber, bears N. 20° E. and S. 20° W.
67.00	Top of ridge, 80 ft. above bears N. 20° E. and S. 20° W.;
82.00	Foot of mountain, 80 ft. below ridge, bears N. 20° E. and S. 20° W.; thence over gently rolling land, leave timber and dense undergrowth, bears N. 20° E. and S. 20° W.
101.74	The cor. of secs. 21, 22, 27, and 28. Sand, mountainous and nearly level. Soil, gravelly and clay 2nd and 3rd rate. Timber, cedar and pinion pine. Undergrowth, sage and oak brush. good grass for grazin. Mountainous or timbered land, or land ed with dense 101.74 chs.

From the cor. of secs. 15, 16, 21, and 22, we run East, on a random line bet. secs. 15 and 22.

3.00 find no trace, of foot of mountain cor.

40.0 Set temp. ¼ sec. cor.

04.50 Intersect N. and S. line, 2.95 N. of W. of the cor. of secs. 14, 15, 22 and 23. Set a sandstone, 16 x 10 x 8 ins., 11

Subdivision of T. 16 S. R. 1 W. - Continued.

Chains	
	in the ground, for closing cor. of secs. 15 and 22, marked C.C. on W., with 3 grooves on S. and 2 grooves on E. faces; from which A cedar, 16 ins. diam., bears S. 72° W., 50 lks. dist., marked T. 16 S. R. 1 W. S. 22, B.T. A cedar, 4 ins. diam; bears N. 36° W. 75 lks. dist. marked T. 16 S. R. 1 W., S. 15, B. T. Note.- We destroy all marks on the cor. of secs. 14, 15, 22 and 23 which pertain to secs. 15 and 22. Thence we run West, on a true line bet. secs. 15 and 22. Over mountainous land through heavy timber; ascend.
20.00	Top of sharp ridge, 150 ft. above cor., bears N. and S.; descend.
26.00	Bottom of hollow, 100 ft. below ridge, course N.; ascend.
35.00	Top of ridge, 150 ft. above hollow, bears N. W. and S. E.; descend.
40.00	Set a hard sandstone, 16 x 9 x 8 ins., 11 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which A pinon pine, 8 ins. diam., bears N. 75° W., 25 lks. dist., marked ¼ S. 15 B.T. A cedar, 8 ins. diam., bears S. 85° E. 15 lks. dist., marked ¼ S. 22 B.T.
62.50	Foot of mountain 300 ft. below ridge, bears N. and

Chains S. 10° W.; leave timber and enter dense undergrowth; thence over nearly level land.

104.50 The cor. of secs. 15, 16, 21, and 22.
Land, mountainous and nearly level.
Soil clay loam and gravelly; 2nd and 3rd rate.
Timber cedar and pinon pine.
Undergrowth sage brush and shad scales.
Good grass for grazing.
Mountainous or heavily timbered land, or land covered with dense undergrowth 104.50 chs.

From the cor. of secs. 9, 10, 15, and 16 we run.
East, on a random line bet secs. 10 and 15.

38.00 Find no trace of foot of mountain cor.
40.00 Set temp. ¼ sec. cor.
107.34 Intersect N. and S. line 3.90 chs N. 0° 01' W. of the cor. of secs. 10, 11, 14, and 15. Set a limestone, 14 x 12 x 8 ins., 9 ins. in the ground for N. E. cor. of sec. 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, S. W. of cor. from which Cedar, 3 ins. diam., bears S. W. 15 lks. dist., marked T. 16 S. R. 1 W. S. 15, B. T.

Note: We destroy all marks on the cor. of secs. 10, 11, 14, and 15, which pertain to secs. 10, 11, and 15, and remark it as the N. W. cor. of sec. 14.

Thence we run

Subdivision of T. 16 S., R. 1 W.- Continued.

Chains.	
	West, on a true line bet. secs. 10 and 15. Over mountainous land, through heavy timber; descend.
14.25	Bottom of hollow, 80 ft. below cor. course S. W.; ascend.
26.62	The closing cor. of secs. 10 and 11, heretofore described.
37.00	Top of ridge, 30 ft. above hollow, bears N.E. and S.W.; descend.
40.00	Set a trachyte stone, 14x12x8 ins., 9 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which Cedar, 6 ins. diam., bears N. 70° E., 50 lks. dist., marked ¼ S. 10, B.T. Cedar, 4 ins. diam., bears S. 20° E., 55 lks. dist., marked ¼ S. 15, B.T.
70.00	Foot of mountain, bears N. and S.; thence over nearly level land; leave timber and enter dense undergrowth, bears N. and S.
80.39	Road bears N. 30° W. and S. 35° E.
104.87	County road leading from Sevan to Fayette, bears N. 20° E. and S. 20° W.
107.34	The cor. of secs. 9, 10, 15 and 16. Sand, mountainous and nearly level. Soil, clay loam and gravelly; 2nd and 3rd rate. Timber, cedar and pinion pine. Undergrowth, sagebrush and shadscales. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth, 107.34 chs. July 1, 1898: At the noon hour,

Subdivision of T. 16 S., R. 1 W.—Continued.

Chains	
	the sky is overcast and s. observations are impossible.
	From the reestablished cor. secs. 3, 4, 9, and 10, we run East, on a retracement line bet. secs. 3 and 10.
40.00	Find no trace of ¼ sec. cor.
80.43	Intersect N. and S. line, 2.11 chs. S. of the reestablished cor. of secs. 2 and 3.
	Thence we run S. 88° 30' W., on a resurvey line bet. secs. 3 and 10.
	Over rolling land, through heavy cedar and pinion pine timber; descend.
20.00	Foot of descent, 40 ft. below bears N. W. and S. E.; leave timber, bears N. W. and S. E.; thence over level land.
20.50	Road from Chriss' Cañon, bears N. W. and S. E.
36.50	Country road leading from Sevan to Fayette, bears N. and
36.90	Creek from Chriss' Cañon, 1 wide, 6 ins. deep, course N. W.
40.23	Find no trace of old ¼ sec. cor. Set a quartzite stone, 18 x 12 x 12 ins. in the ground, for reestablished ¼ sec. cor., marked ¼ on N. face; and raise a m of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
40.60	Fence bears N. and S.; enter enclosed field, cultivated.
42.20	Isaac Pierce's house bears N. 175 lks. dist.
52.40	E. edge of lucern field, bears N.

Subdivision of T. 16 S., R. 1 W.-Continued.

chains	and S.
62.25	W. edge of lucern field, bears N. and S.
80.39	Wire fence, bears N. 2° W. and S. 2° E.; leave field, cultivated.
80.46	The cor. of secs. 3, 4, 9, and 10. Sand, rolling and level; soil, clay and gravelly loam; 2nd rate. Timber, cedar and pinion pine. Heavily timbered land, 20.00 chs.

From the reestablished cor. of secs. 4, 5, 32, and 33, on S. bdy. of Tp., we run North, on a retracement line bet. secs. 32 and 33. At 40.00 chs., find no trace of ¼ sec. cor., and at 80.00 chs. find no trace of the cor. of secs. 28, 29, 32 and 33; therefore we continue our line north, finding no trace of any of the corners, and at 485.88 chs., intersect the Third Standard Parallel South, 15.95 chs. N. 88° 30' E., from the reestablished standard cor. of secs. 4, 5, 32, and 33. The falling answers to a correction of 2° or 2.82 chs. W. per mile, counting from the cor. of secs. 4, 5, 32, and 33, on S. Bdy. of Tp. The miles will be 80.90 chs., all except the line bet. secs. 4 and 5, which will be 81.24 chs. in proportion to the old distance. July 1st 1898.

July 2, 1898: At 8h 0m a. m., l. m. t., we set off 39° 28' N., on the lat.

arc; 23°1' N., on the decl. arc;
and determine a true
meridian with the solar at.
- standard cor. of secs. 32
& 33.
Thence we run
S. 2° E., on a resurvey line bet.
secs. 4 and 5.
Over rolling land, through
scattering cedar timber
and undergrowth.
0.00 Leave timber, bears E. and W.
40.79 Find no trace of old 4 sec. cor.
Set a trachyte stone, 14 x 7 x 6 ins.
9 ins. in the ground, for rees-
tablished 4 sec. cor., marked
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.
60.00 Leave rolling land, and
enter level land, bears E. and W.
76.00 Old road, bears N.E. and S.W.
1.2 Find no trace of old cor. of
cs. 4, 5, 8, and 9.
Set a trachyte stone, 15 x 7 x 6 ins.,
10 ins. in the ground, for
reestablished cor. of secs. 4, 5, 8,
and 9, marked with 5 notch-
es on S. and 4 notches on E.
edges; dig pits, 18 x 18 x 12 ins., in
sec. 5½ ft. dist., and raise
a mound of earth, 4 ft. base,
2 ft. high, W. of cor.
Land, rolling and level.
Soil, clay loam; 2nd rate.
Timber, cedar and pinion
pine.
Undergrowth, sage brush.

Subdivision of T. 16 S., R. 1 W.-Continued.

chains.	
	S. 2° E., on a resurvey line bet. secs. 8 and 9. Over level land, through scattering undergrowth.
40.45	Find no trace of old ¼ sec. cor. Set a trachyte stone, 16x10x6 ins., 11 ins. in the ground, for reestablished 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.
44.60	Road bears N.E. and S.W.
61.00	Road bears N.E. and S.W.
c 80.90	Set a trachyte stone, 16x8x7 ins., 11 ins. in the ground, for reestablished cor. of secs. 8, 9, 16, and 17, marked with 4 notches on S. 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. Sand, level. Soil, clay loam; 2nd rate. No timber. Undergrowth, sagebrush. Note: We find no trace of old cor. of secs. 8, 9, 16, and 17.
	S. 2° E., on a resurvey line bet. secs. 16 and 17. Over level land, through scattering undergrowth.
40.45	Find no trace of old ¼ sec. cor. Set a trachyte stone, 14x6x6 ins., 9 ins. in the ground, for rees-

Subdivision of T. 6 S., R. 1 W. - Continued.

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.
76.50 Road from Fayette to Jual,
bears S. 50° W. and N. 5° E.
80.90 Find no trace of old cor. of
16, 17, 20, and 21.
Set a trachyte stone, 15x7x6 ins.,
10 ins. in the ground, for rees-
tablished cor. of secs. 16, 17, 20,
21, marked with 3 notches on S.
edges and 4 notches on E.
edges; dig pits, 18x18x12 ins., in
each sec., 5½ ft. dist.; and
mound of earth, 4 ft. base,
2 ft. high, W. of cor.
Sand, level.
Soil, clay loam; 2nd rate.
No timber.
Undergrowth, sage-brush.

S. 2° E., on a resurvey line bet.
secs. 20 and 21.
Over level land, through
scattering undergrowth.
0.00 Leave level land and en-
rolling land, bears E. and
Enter dense undergrowth,
bears E. and W.
40.45 Find no trace of old ¼ sec. cor.,
a trachyte stone, 14x8x6
ins. in the ground, for rees-
tablished ¼ sec. cor., marked
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. 16 S., R. 1 W.- Continued.

chains	
c 80.90	Find no trace of old cor. of secs. 20, 21, 28, and 29. Set a quartzite stone, 14x7x6 ins., 9 ins. in the ground, for re-established cor. of secs. 20, 21, 28, and 29, marked with 2 notches on S. 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. Sand, level and rolling. Soil, clay loam; 2nd rate. No timber. Undergrowth, sagebrush. Sand covered with dense undergrowth, 60.90 chs.
	S. 2° E., on a resurvey line bet. secs. 28 and 29. Over rolling land, through dense undergrowth.
40.45	Find no trace of old ¼ sec. cor. Set a trachyte stone, 16x9x4 ins., 11 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.
c 80.90	Find no trace of old cor. of secs. 28, 29, 32, and 33. Set a trachyte stone, 16x7x4 ins., 11 ins. in the ground, for re-established cor. of secs. 28, 29, 32, and 33, marked with 1 notch on S. and 4 notches on E. edges; dig pits, 18x18x12 ins., in each

Subdivision of T. 16 S., R. 1 W.-Continued

sec., 5½ ft. dist.; and raise a
mound of earth, 4 ft. base, 2 ft.
high, W. of cor.
Sand, rolling.
Soil, clay loam; 2nd rate.
No timber.
Undergrowth, sagebrush.
Sand covered with dense
undergrowth, 80.90 chs.
July 2, 1898: At this cor., we set
off 23° 07' N., on the decl. arc;
at 0h 4m p.m., l.m.t., observe
sun on the meridian,
the resulting lat. 39° 24' N.,
which is about 0'.56 greater
than the proper lat.

S. 2° E., on a resurvey line bet.
secs. 32 and 33.
Over rolling land,
scattering sagebrush.
40.45 Find no trace of old ¼ sec. cor.
Set a trachyte stone, 18 x 9 x 6 ins.
12 ins. in the ground, for
¼ sec. cor., marked ¼
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
base, 1½ ft. high, W. of cor.
0.90 The cor. of secs. 4, 5, 32, and 33.
Sand, rolling.
Soil, clay loam; 2nd rate.
No timber.
Undergrowth, sagebrush.

From the reestablished cor.
of secs. 28, 29, 32 and 33, we

Subdivision of T. 16 S., R. 1 W.- Continued.

chains	
	East, on a retracement line bet. secs. 28 and 33.
40.00	Find no trace of ¼ sec. cor.
80.44	Intersect N. and S. line 2.12 chs. S. 2° E. of the reestablished cor. of secs. 27, 28, 33 and 34.
	Thence we run
	S. 88° 30' W., on a resurvey line bet. secs. 28 and 33.
	Over rolling land, through scattering timber.
5.00	Leave timber, bears N. and S.
18.00	County road, leading from Sevan to Fayette, bears N. and S.
40.21	Find no trace of old ¼ sec. cor.
	Set a sandstone, 18 x 5 x 4 ins., 12 ins. in the ground, for reestablished ¼ sec. cor., marked ¼ on N. face; from which
	A cedar, 14 ins. diam, bears N. 35° E., 50 lks. dist., marked ¼ S. 28, B. T.
	A cedar, 4 ins. diam, bears S. 40° W., 40 lks. dist., marked ¼ S. 33, B. T.
49.00	Top of ridge, 100 ft. above ¼ sec. cor., bears N. and S.; descend.
80.42	The cor. of secs. 28, 29, 32 and 33.
	Sand, rolling.
	Soil, clay loam; 2nd rate.
	Timber, cedar.
	Undergrowth, sagebrush.

From the reestablished cor. cor. of secs. 20, 21, 28 and 29. We run

East, on a retracement line bet. secs. 21 and 28.

Subdivision of T. 16 S., R. 1 W. - Continued

chains	
40.00	Find no trace of old ¼ sec. cor.
0.64	Intersect N. and S. line, 212 chs. S. 2° E., of the reestablished cor. of secs. 21, 22, 27 and 28.
	Thence we run S. 88° 30' W., on a true line bet. secs. secs. 21 and 28.
	Over rolling land, through dense undergrowth.
14.00	Country road, leading from Sevan to Fayette, bears N. 20° W. and S. 20° E.
40.30	Find no trace of old ¼ sec. cor. Set a limestone, 20 x 12 x 4 ins., 15 ins. in the ground, for reestablished 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.
0.60	The cor. of secs. 20, 21, 28, and 29.
	Sand, rolling.
	Soil, clay loam; 2nd rate.
	No timber.
	Undergrowth, sagebrush.
	Good grass for grazing.
	Sand covered with dense undergrowth, 80.60 chs.
	July 2, 1898.

July 3, 1898: At 8h 3m a.m., l.m.t., we set off 39° 26' N., on the lat. arc; 22° 57' N., on the decl. arc; and determine a true with the solar at the reestablished cor. of secs. 16, 17, 20 21.

Thence we run East, on a retracement line

Subdivision of T. 16 S., R. 1 W. - Continued.

chains	
	bet. secs. 16 and 21.
40.00	Find no trace of ¼ sec. cor.
80.84	Intersect N. and S. line 2.12 chs. S. 2° E., of the reestablished cor. of secs. 15, 16, 21, and 22. Thence we run S. 88° 30' W., on a resurvey line bet. secs. 16 and 21. Over gently rolling land, through dense undergrowth.
11.00	County road leading from Sevan to Fayette, bears N. and S.
40.40	Find no trace of old ¼ sec. cor. Set a sandstone, 16x12x6 ins., 11 ins. in the ground, for reestablished 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.
50.60	Road leading from Gual to Fayette, bears N. W. and S. E.
54.80	Leave dense and enter scattering undergrowth, bears N. and S.
80.80	The cor. of secs. 16, 17, 20 and 21. Sand, rolling. Soil, clay loam; 2nd rate. No timber. Undergrowth, sagebrush. Sand covered with dense undergrowth, 54.80 chs.
	From the reestablished cor. of secs. 8, 9, 16 and 17, we run East, on a retracement line bet. secs. 9 and 16.

Subdivision of T. 16 S., R. 1 W.-Continued.

40.00 Find no trace of ¼ sec. cor.
80.84 Intersect N. and S. line, 2.12 chs.
S. 2° E. of the reestablished cor.
secs. 9, 10, 15, and 16.
hence we run
S. 88° 30' W., on a resurvey line
bet. secs. 9 and 16.
Over level land, through
dense undergrowth.
0.40 Find no trace of old ¼ sec. cor.
Set a trachyte stone, 18x9x6 ins.,
12 ins. in the ground, for re
tablished ¼ sec. cor., marked
¼ on N. face; dig pits, 18x18x12 ins.
E. and W. of stone, 3 ft. dist.;
raise a mound of earth,
3½ ft. base, 1½ ft. high, N. of cor.
71.30 Leave dense and enter scat-
tering undergrowth, bears
N. and S.
73.3 Road leading from Juab to
Fayette, bears N. 5° W. and S. 5° E.
0.80 The cor. of secs. 8, 9, 16, and 17.
Sand, level.
Soil, clay loam; 2nd rate.
No timber.
Undergrowth, sagebrush.
Sand covered with dense
undergrowth, 71.30 chs.

From the reestablished cor.
secs. 4, 5, 8, and 9, we run
East, on a random line bet.
secs. 4 and 9.
40.00 Find no trace of ¼ sec. cor.
80.64 Intersect N. and S. line 2.12 chs.
S. 2° E. of the reestablished cor.
of secs. 3, 4, 9, and 10.

Subdivision of T. 16 S., R. 1 W.- Continued.

chains	
	Thence we run S. 88° 30' W., on a resurvey line bet. secs. 4 and 9. Over level land, through dense undergrowth in pasture.
40.00	Fence bears N. and S. Leave field. Enter scattering undergrowth.
40.30	Find no trace of old ¼ sec. cor. Set a cedar post, 3 ft. long, 4 ins. sq., with charred stake 24 ins. in the ground, for reestablished ¼ sec. cor., marked ¼ S. 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.
72.20	Road, bears N. and S.
80.00	The cor. of secs. 4, 5, 8, and 9. Land, level. Soil, clay loam; 2nd rate. No timber. Undergrowth, sagebrush. July 5, 1898: At this cor., we set off 22° 45' N., on the decl. arc; and at 0h 5m p.m., l. m. t., observe the sun on the meridian, the resulting lat. is 39° 27' N., which is about 0'.10 greater than the proper lat.

From the cor. of secs. 31 and 32, on S. bdy. of Tp. heretofore described, we run North, bet. secs. 31 and 32. Over rolling land, through dense undergrowth; ascend gradually.

Subdivision of T. 16 S., R. 1 W.-Continued.

2.00 Foot of mountain, bears N. 10° W. and S. 10° E.; ascend.
7.00 Top of ridge, bears N. 10° W. and S. 10° E.; descend gradually through scattering timber, bears E. with ridge.
40.0 Set a limestone, 28 x 10 x 6 ins., 21 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; from which
A cedar, 4 ins. diam., bears S. 72° E., 40 lks. dist., marked ¼ S. 32, B. T.
A pinion pine, 4 ins. bears N. 42° W., 175 lks. dist., marked ¼ S. 31, B. T.
51.00 Leave timber, bears E. and W.
-8.50 Wagon road bears N. 80° W. .80° E.
63.00 Foot of mountain, bears N. 60 E. and S. 60° W.
65.90 Wash, 4 ft. deep, 30 lks. wide, course S. 60° W.
70.0 Begin ascent of mountain, bears E. and W.
- 0.00 Set a limestone, 18 x 14 x 14 ins., 12 ins. in the ground, for cor. of secs. 29, 30, 31, and 32, marked with 1 notch on S. and 5 n - on E. edges; and raise a d of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impractic

Sand, rolling and mountainous.
Soil, clay loam and gravelly; 2nd and 3rd rate.
Timber, cedar and pinion pine.
Undergrowth, sage brush.

Subdivision of T.16S., R.1W.-Continued.

Chains	
	Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 50.00 chs.
	East, on a random line bet. secs. 29 and 32.
40.00	Find no trace of ¼ sec. cor.
77.16	Intersect N. and S. line, 2.05 chs. S. 2° E., from the reestablished cor. of secs. 28, 29, 32, and 33. Note: In order to place the ¼ sec. cor. as near as possible in its original position, we run S. 88°30' W., on a resurvey line bet. the E. halves of secs. 29 and 32. Over rolling land, through scattering timber and dense undergrowth.
7.50	Begin ascent of ridge, bears N. and S.
11.30	Top of ridge, 30 ft. above sec. cor., bears N. and S.; descend.
17.50	Leave timber, bears N. and S.
21.00	Foot of descent bears N. and S.; thence over level land.
22.35	Road leading from Juab to Fayette, bears N. and S.
25.00	Wash, 20 lks wide, 4 ft. deep, course S.
40.00	Find no trace of old ¼ sec. cor. Set a quartzite stone, 15x10x8 ins., 10 ins. in the ground, for reestablished 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

Subdivision of T. 16 S., R. 1 W. - Continued.

earth, 3½ ft. base, 1½ ft. high, N. of cor.
Sand, rolling and level.
Soil, clay and gravelly
2nd rate.
Timber, cedar.
owth, sagebrush.
Sand covered with dense
undergrowth, 40.00 chs.

Note: Knowing from the line bet. secs. 29 and 32, that the line bet. the W. halves of secs. 29, and 32 will require a closing
we run
West, on a true line bet. ~~the~~ secs. W. halves of secs. 29 and 32.
Over nearly level land, dense undergrowth.

13.25 Wash, 30 lks. wide, 3 ft. deep, S. 30° W.

7.15 Cattle trail, bears N. 30° E. and S. 30° W.

33.00 Begin ascent of mountain, bears N. and S.

7.10 Intersect N. and S. line, 1.00 chs. N. of the cor. of secs. 29, 30, 31 and 3.
Set a limestone, 18 x 14 x 6 ins., 12 in the ground, for closing
of secs. 29 and 32, marked C. C. on E.; with 1 groove on S. and 5 grooves on E. faces; from which
a cedar, 6 ins. diam., bears N. 82° E., 182 lks. dist., marked T. 16 S., R. 1 W., S. 29, B. T.
No other trees within limits;
also a mound of stone, 2 ft. base, 1½ ft. high, E. of cor.

Subdivision of T. 16 S., R. 1 W.-Continued.

chains.	
	Pits impracticable.
	Note: We destroy all marks on the cor. of secs. 29, 30, 31 and 32, which pertain to secs. 29 and 32.
	Sand, nearly level and mountainous.
	Soil, clay loam and gravelly; 2nd and 3rd rate.
	No timber.
	Undergrowth, sagebrush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 37.10 chs.
	Note: Knowing from former connections, that the line bet. secs. 30 and 31 will not intersect the W. bdy. of Tp. within the prescribed limits, we run West, on a true line bet. secs. 30 and 31, from the cor. of secs. 30 and 31.
	Over mountainous land, through scattering undergrowth; ascend.
.50	Top of ridge, 10 ft. above cor., bears N. 20° E. and S. 20° W.; descend.
5.50	Bottom of hollow, 80 ft. below ridge, course S. 55° W.; ascend.
21.30	Top of spur, 90 ft. above hollow, bears N. E. and S. W. Enter scattering timber, bears with ridge; descend.
32.50	Bottom of hollow, 85 ft. below spur, course S. 20° W.; ascend.
40.00	Set a quartzite stone, 20 x 15 x 4 ins., 15 ins. in the ground, for ¼ sec.

Subdivision of T. 16 S., R. 1 W.-Continued.

cor., marked ¼ on N. face; from which
Cedar, 8 ins. diam., bears N. 25° 30' E., 100 lks. dist., ¼ S. 30, B. T.
Cedar, 4 ins. diam., bears S. 5° E., 20 lks. dist., marked ¼ S. 31, B. T.

40.85 Top of sandy ridge, 30 ft. above ow; bears N. and S.; descend.

65.00 Bottom of hollow, 30 ft. below ridge, course S. 60° W. Enter undergrowth; ascend.

70.30 Top of spur, 40 ft. above hollow, bears N. 60° E. and S. 60° W.;

75.00 Foot of descent, bears N. 60° E. and S. 60° W.; thence over ~~level~~ land. Sea've timber, bears N. and S.

119.00 Old road, bears N. W. and S. E.

20.0 Begin ascent of ridge, bears 20° W. and S. 20° E.

124.7 Top of spur, 60 ft. above level land, bears N. 20° W. and S. 20° E.;

140.3 Wash, 30 lks. wide, 6 ft. deep, ~~S.~~ W.

153.2 Wash, 20 lks. wide, 4 ft. deep, S.; ascend.

60.0 Top of spur, 30 ft. above wash, N. 20° W. and S. 20° E.;

172.0 Bottom of hollow, 20 ft. below, course S.; ascend.

176.5 Top of ridge, 20 ft. above bears N. and S.; descend.

183.00 Wash, 20 lks. wide, 5 ft. deep, S. Thence over land.

191.50 Old road, bears N. 80° W. and S. 80°

06.0 To right bank of Sevier River, 4 ft. deep, course N. 10° W.

Subdivision of T. 16 S., R. 1 W.-Continued.

Chains.	
208.00	To left bank of River.
213.00	A lumber shanty bears N. 5.80 chs. dist.
215.50	To left bank of Sevier River, 5 ft. deep, course S. W.
217.00	To right bank of River.
228.50	To right bank of Sevier River, 3 ft. deep, course N. W.
231.00	To left bank of River.
235.00	To left bank of Sevier River, 4 ft. deep, course S. 60° W.
237.00	To right bank of River.
240.75	To right bank of Sevier River, 3 ft. deep, course N. W.
244.20	Intersect W. bdy. of Tp. 2.00 chs. N. 0° 35' E., of the ¼ sec. cor. bet. secs. 31 and 36, heretofore described. The point for closing cor. falls in river, therefore at 340.75 chs. on the line bet. secs. 30 and 31 on right bank of Sevier River we set a flint stone, 16 x 9 x 5 ins., 11 ins. in the ground, for witness cor. to closing cor. of secs. 30 and 31, marked W. C., C. C. on E.; with 5 grooves on N. and 1 groove on S. faces; dig pits, 24 x 18 x 12 ins., crosswise on each line N. and S. 3 ft., ~~dist.~~ E. of stone, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, E. of cor. Note: We destroy all marks on the cor. of secs. 25, 30, 31, and 36 which pertain to secs. 30 and 31. Sand, mountainous, rolling and level. Soil, clay loam and gravelly; 2nd and 3rd rate.

Subdivision of T. 16 S., R. 1 W.—Continued.

Timber, cedar.
Undergrowth, sagebrush and greasewood.
good grass for grazing.
Mountainous land, or land with dense undergrowth, 244.20 chs.

July 5, 1898.

July 6, 1898: At 8h 0m a.m., l.m.t., we set off 39°24' N., on the lat. arc; 22° 41' N., on the decl. arc; and determine a true meridian with the solar at the cor. of secs. 30 and 31.
Thence we run
North, on a random line bet. secs. 29 and 30.
40.00 Set temp. ¼ sec. cor.
0.75 To point 6.00 chs. E. of the cor. of secs. 19, 20, 29, and 30, which is a greatly decayed post in mound, marked and witnessed as described by the surveyor general.
Thence we run
South, on a true line bet. secs. 29 and 30.
Over level land, through scattering cedar timber dense undergrowth.
18.00 Find no trace of foot of mountain cor.
40.75 Set a quartzite stone, 18x14x6 ins. 12 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; dig pits, 18x18x12 ins., N. and S. of 3 t. dist.; and raise a earth, 3½ ft. base, 1½ ft. high, W. of cor.
45.00 Leave dense undergrowth

Subdivision of T. 16 S., R. 1 W.- Continued.

Chains.	
	and enter heavy timber, bears E. and W.
	Begin ascent of mountain, bears E. and W.
67.00	Top of ridge, 150 ft. above 4 sec. cor., bears E. and W.; leave heavy and enter scattering timber, bears with ridge; descend.
80.75.	Intersect E. and W. line 6.00 chs. W. of the cor. of secs. 30 and 31. Set a sandstone, 18 x 10 x 6 ins., 12 ins. in the ground, for closing cor. of secs. 29 and 30, marked C. C. on N.; with 1 groove on S. and 5 grooves on E. faces; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable. Note: We destroy all trees marks on the closing cor. of secs. 29. and 32, which pertain to secs 29 and 30, and remark it for the N. W. cor. of sec. 32; also remark cor. of secs. 30 and 31, as closing cor. of secs. 29 and 31. Sand, mountainous and level. Soil, clay loam and gravelly; 2nd and 3rd rate. Timber, cedar. Undergrowth, sagebrush. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense under-growth, 80.75 chs.

Note: We destroy all traces of the old cor. of secs. 19, 20, 29 and 30, and reestablish it at the same point as follows: Set a hard sandstone, 16 x 12 x 10 ins.,

Subdivision of T. 16 S., R. 1 W.-Continued.

chains	
	11 ins. in the ground, for rees-tablished cor. of secs. 19, 20, 29, 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.
	Thence we run East, on a retracement line bet. secs. 20 and 29.
40.00	Find no trace of ¼ sec. cor.
80.64	Intersect N. and S. line, 2.11 S. 2° E., from the reestablished cor. of secs. 20, 21, 28, and 29.
	Thence we run S. 88° 30' W., on a resurvey line bet. secs. 20 and 29.
	Over nearly level land, through dense under
7.80	Road leading from Quab to Fayette, bears N. and S.
40.30	Find no trace of old ¼ sec. cor. Set a quartzite stone, 18x8x8 ins., 12 ins. in the ground, for reestablished 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 3½ ft. base, 1½ ft. high, N. of cor.
80.50	The cor. of secs. 19, 20, 29, and 30.
	Land, nearly level.
	Soil, clay loam; 2nd rate.
	No timber.
	Undergrowth, sage brush.
	Land covered with dense undergrowth, 80.60 chs.

For reasons already

Subdivision of T. 16 S., R. 1 W.-Continued.

chains.	
	we run West, on a true line bet. secs. 19 and 30. Over gently rolling land, through dense undergrowth and scattering cedar timber, ascend gradually.
15.00	Foot of mountain, bears N. and S.
39.00	Top of ridge, 50 ft. above sec. cor., bears N. and S.; descend gradually.
40.00	Set a gray sandstone, 20x12x10 ins., 15 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which a cedar, 8 ins. diam, bears N. 60° E., 30 lks. dist., marked ¼ S. 19, B.T. a cedar, 10 ins. diam, bears S. 20° W., 60 lks. dist., marked ¼ S. 30, B.T. Leave timber.
17.4.70	Road leading from Pierce's Ranch to Servier River, bears N. and S. in hollow, 50 ft. below ridge, course S.; ascend gradually.
197.00	Top of ridge, 40 ft. above hollow, bears N. 10° W. and S. 10° E.; descend gently.
213.00	Foot of descent, bears N. 10° E. and S.
237.00	Intersect W. bdy. of Tp. 2, 48 chs. N. 0° 35' E., from the ¼ sec. cor., bet. secs. 25 and 30, heretofore described. Set a hard sandstone, 14x6x6 ins., 9 ins. in the ground, for closing cor. of secs. 19 and 30, marked C. C. on E.; with 4 grooves on N. and 2 grooves on S. faces; dig pits, 24x18x12 ins., cross-wise

Subdivision of T. 16 S., R. 1 W.-Continued.

chains	
	on each line, N. and S., 3 ft., and E. of stone, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, E. of cor.
	Note: We destroy all marks on the cor. of secs. 19, 24, 25, and 30, which pertain to secs. 19 and 30.
	Sand, gently rolling.
	Soil, clay and gravelly loam; 2nd rate.
	Timber, cedar.
	Undergrowth, sage brush and shadscales.
	Good grass for grazing.
	Sand covered with dense undergrowth, 237.00 chs.
	July 6, 1898: At the noon hour, the sky is overcast and observations are impossible.

	Note: We are unable to find the ¼ sec. cor., bet. secs. 19 and 20, and in order to establish it as near as possible in its original position, we run N. 2° W., on a resurvey line bet. the S. halves of secs. 19 and 20.
	Over nearly level land, through dense sun and scattering cedar.
30.00	Leave timber, bears E. and W.
✓ +0.00	Find no trace of old ¼ sec. cor. Set a sandstone, 16 x 10 x 6 ins., 11 ins. in the ground, for re-established ¼ sec. cor., marked ¼ on W. face; dig pits, 18 x 18 x 12 ins., N. and S. of stone, 3 ft. dist.; raise a mound of earth, 3½ ft. , 1½ ft. high, W. of cor.

Subdivision of T. 16 S., R. 1 W.-Continued.

chains.	
	Sand, nearly level. Soil, clay loam; 2nd rate. Timber, cedar. Undergrowth, sagebrush. Good grass for grazing. Sand covered covered with dense undergrowth, 40.00 chs.
	North, bet. the N. halves of secs. 19 and 20. Over nearly level land, through dense undergrowth.
35.00	Wood road, bears N. E. and S. W.
37.50	Wash, 20 lks. wide, 5 ft. deep, course S. W.
40.00	Set a quartzite stone, 16x12x6 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. 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. Sand, nearly level. Soil, clay loam; 2nd rate. No timber. Undergrowth, sagebrush. Good grass for grazing. Sand covered with dense undergrowth, 40.00 chs.
	East, on a random line bet. secs. 17 and 20.
40.00	Find no trace of ¼ sec. cor.
79.36	Intersect N. and S. line 3.31 chs. S. 20 E., from the reestablished

Subdivision of T. 16 S., R. 1 W.-Continued.

chains. cor. of secs. 16, 17, 20, and 21.
note: In order to establish
¼ sec. cor., as near as
possible in its original posi
ion, we run
S. 88° 30' W., on a resurvey line
bet. the E. halves of secs. 17 and 2
Over level land, through s
undergrowth.
.25 Road leading from Jual to
Fayette, bears N. 20° W. and S. 20° E.
37.30 Wash, 15 lks. wide, 4 ft. deep,
N. 20° W.
40.00 Find no trace of old ¼ sec. cor.
et a gray limestone, 18x12x5
12 ins. in the ground, for
reestablished ¼ sec. cor.,
ed ¼ on N. face; dig pits, 18x18x12
and W. of stone, 3 ft. dist.;
a mound of earth, 3½ ft.
base, 1½ ft. high, N. of cor.
Sand, level.
oil, clayloam; 2nd rate.
No timber.
Undergrowth, sagebrush.
Good grass for grazing.

note: Knowing from our
random line that the line
bet. the W. halves of secs. 17 and
20 will not fall within the
limits of the cor. of secs. 17, 18, 19,
and 20, we run
West, on a true line bet the W.
halves of secs. 17 and 20.
Over level land, through
dense undergrowth.
33.80 Wood road, bears N. E. and S. 30°
34.80 Wash, 20 lks. wide, 6 ft. deep,

Subdivision of T. 16 S., R. 1 W.- Continued.

chains	course S. W.
39.25	Intersect N. and S. line 2.26 chs. N. of the cor. of secs. 17, 18, 19 and 20. Set a limestone, 16x10x7 ins., 11 ins. in the ground, for closing cor. of secs. 17 and 20, marked C. C. on E.; with 3 grooves on S. and 5 grooves on E. faces; dig pits, 18x18x12 ins., cross-wise on each line, N. and S., 3 ft., and E. of stone, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, E. of cor. Note: We destroy all marks on the cor. of secs. 17, 18, 19, and 20, which pertain to secs. 17 and 20. Sand, level. Soil, clay loam; 2nd rate. No timber. Undergrowth, sagebrush and shadscales. Good grass for grazing. Sand covered with dense undergrowth, 39.25 chs.
	For reasons already explained, we run West, on a true line bet. secs. 18 and 19, from the cor. of secs. 18 and 19. Over level land, through dense undergrowth.
5.00	Begin ascent of mountain, bears N. and S.
13.00	Top of ridge, 40 ft. above sec. cor., bears N. and S.; descend gradually.
40.00	Set a quartzite stone, 18x14x5 ins., 12 ins. in the ground, for ¼ sec.

Subdivision of T. 16 S., R. 1 W.—Continued.

rains ,, marked ¼ on N. face; dig pits 18×18×12 ins., E. and W. of stone, 3 ft. dist.; and raise a mound of th, 3½ ft. base, 1½ ft. high, N. of

46.50 Wash, 20 lks. wide, 3 ft. deep, in hollow, 60 ft. below ridge, N. 80° W.; ascend.

49.50 Same wash, 20 lks. wide, 4 ft. S. 80° W.

2.70 Road leading from Pierce's to Sevier River, bears N. 55° E. and S. 55° W.

80.00 Top of ridge, 60 ft. above hollow, bears N. and S.; descend.

0.00 Foot of descent, bears N. and S. Thence over rolling land.

30.6 Telephone line from Juab to Scipio, bears N. 13° E. and S. 13° W.

34.4 Intersect W. bdy. of Tp. 214 chs. N. 0° 35′ E., from the ¼ sec. cor., bet. cs. 19 and 24, heretofore ed.

et a blue limestone, 18×10×6 ins., 12 ins. in the ground, for clos- cor. of secs. 18 and 19, m C.C. on E.; with 3 grooves on N. and 3 grooves on S. faces; dig ts, 24×18×12 ins., crosswise on ach line, N. and S., 3 ft., and E. stone, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. gh, E. of cor.

Note: We destroy all marks the cor. of secs. 13, 18, 19, and 24, which pertain to secs. 18 and 1 and, level, mountainous, and rolling.

Soil, clay and gravelly loam; 2nd rate.

No timber.

Undergrowth, sage brush

Subdivision of T. 16 S., R. 1 W.-Continued.

chains	
	and shadscales. Good grass for grazing. Mountainous land, or land covered with dense under-growth, 234.44 chs. July 6, 1898.
	July 7, 1898: At 8h 4m a.m., l.m.t., we set off 39°26' N., on the lat. arc; 22°35' N., on the decl. arc; and and determine a true meridian with the solar at the cor. of secs. 18 and 19. Thence we run North, bet. secs. 17 and 18. Over level land, through dense undergrowth.
2.26	The closing cor. of secs. 17 and 20.
3.00	Begin ascent of mountain, bears N. 80° E. and S. 80° W.
13.00	Top of ridge, 30 ft. above cor., bears N. 30° E. and S. 80° W.; descend.
34.35	Bottom of hollow, 20 ft. below ridge, course S. 50° W.; ascend gently.
35.50	Road leading from Pierce's Ranch to Sevier River, bears N. 50° E. and S. 50° W.
40.00	Set a sandstone, 14 x 10 x 8 ins., 9 ins. in the ground, for ¼ sec. cor., marked ¼ 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.
56.50	Top of ridge, 30 ft. above hollow, bears E. and W.; descend.
62.50	Bottom of swale, 25 ft. below ridge, course S. E.; ascend.

Subdivision of T. 16 S., R. 1 W. - Continued.

Chains.	
65.00	Top of ridge, 20 ft. above swale, bears E. and W.; enter scattering timber, bears with ri descend.
75.00	Wood road, bears E. and W., in swale, course E.; ascend.
80.00	Set a gray sandstone, 14 x 10 x 8 ins. in the ground, for cor. of secs. 7, 8, 17, and 18, marked with 4 notches on S. and 5 notches on E. edges; from which A cedar, 12 ins. diam., be N. 44° E., 25 lks dist.; T. 16 S., R. 1 W., S. 8, B.T. A cedar, 16 ins. diam., S. 53° E., 47 lks. dist., marked T. 16 S., R. 1 W., S. 17, B.T. A cedar, 5 ins. diam., bears S. 36° W., 30 lks. dist., marke T. 16 S., R. 1 W., S. 18, B.T. A cedar, 10 ins. diam., bears N. 26° W., 27 lks. dist., m T. 16 S., R. 1 W., S. 7, B.T. Sand, level and mour Soil, clay and gravelly l Timber, scattering cedar. Undergrowth, sage brush. Good grass for grazing. Mountainous land, or land covered with dense under-growth, 80.00 chs.

Note: We are unable to find the ¼ sec. cor. bet. secs. 8 and 17; therefore we proceed to establish it as near as in its original position as follows:

Subdivision of T. 16 S., R. 1 W. - Continued.

chains.	
	From the reestablished cor. of secs. 8, 9, 16, and 17, we run S. 88° 30' W., on a resurvey line bet. the East halves of secs. 8 and 17.
	Over level land, through scattering undergrowth.
30.00	Wood road, bears N. 20° E. and S. 20° W.
38.00	Road leading from Pierce's Ranch to Sevier River, bears N. 40° E. and S. 40° W.
40.00	Find no trace of old ¼ sec. cor. Set a limestone, 16 x 10 x 5 ins., 11 ins. in the ground, for reestablished 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.
	Sand, level.
	Soil, clay loam; 2nd rate.
	No timber.
	Undergrowth, sage brush.
	Good grass for grazing.

	For reasons already explained, we run West, on a true line bet. the W. halves of secs. 8 and 17.
	Over level land, through dense undergrowth.
20.00	Begin ascent of mountain, bears N. and S. Enter scattering timber, bears N. and S.
36.32	Intersect N. and S. line, 295 chs. N. of the cor. of secs. 7, 8, 17, and 18. Set a sandstone, 15 x 10 x 6 ins., 10 ins. in the ground, for clos-

Subdivision of T. 16 S., R. 1 W.- Continued.

ing cor. of secs. 8 and 17, marked C. C. on E.; with 4 grooves on S. 5 grooves on E. faces; from ch

Cedar, 10 ins. diam., bears N. 5 E., 30 lks. dist., marked T. 16 S., R. 1 W., S. 8, B. T.

Cedar, 8 ins. diam., bears S. 10° E., 48 lks. dist., marked T. 16 S., R. 1 W., S. 17, B. T.

Note: We destroy all marks on the cor. of secs. 7, 8, 17, and 18, which pertain to secs. 8 and 17.

Sand, level and mountainous.

Soil, clay and gravelly loam; 2nd rate.

Timber, cedar.

Undergrowth, sagebrush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth, 36.32 chs.

For reasons already explained, we run

X West, on a true line bet. secs. 7 and 18.

Over mountainous land, through heavy cedar timber, end.

5.00 Top of ridge, 40 ft. above sec. cor., bears N. 10° W. and S. 10° E.;

7.50 Wood road, bears N. 30° W. and S. 30° E., in hollow, 50 ft. below ridge, course S. 30° E.; ascend.

2.50 Top of ridge, 100 ft. above bears N. and S.; descend.

40.00 Set a quartzite stone, 18 x 12 x 10 ins., 12 ins. in the ground, for 1/4 sec. cor.

Subdivision of T. 16 S., R. 1 W.-Continued.

Chains	
	marked ¼ on N. face; from which a cedar, 7 ins. diam., bears N. 25° W., 33 lks. dist., marked ¼ S. 7, B.T. a cedar, 6 ins. diam., bears S. 10° W., 28 lks. dist., marked ¼ S. 18, B.T.
58.00	Foot of mountain, bears N. and S. Sea've timber, bears N. and S.; thence over rolling land, through dense undergrowth.
211.54	Telephone line leading from Juab to Fayette, bears N. 10° E. and S. 10° W.
215.68	County road leading from Juab to Scipio, bears N. 10° E. and S. 10° W.
233.18	Intersect W. bdy. of Tp. 1. 85 chs. N. 0° 35' E. from the ¼ sec. cor. bet. secs. 13 and 18, heretofore described. Set a limestone, 20 x 14 x 4 ins., 15 ins. in the ground, for closing cor. of secs. 7 and 18, marked C.C. on E.; with 2 grooves on N. and 4 grooves on S. faces; dig pits, 24 x 18 x 12 ins., crosswise on each line, N. and S., 3 ft., and E. of stone, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, E. of cor. Note: We destroy all marks on the cor. of secs. 7, 12, 13, and 18, which pertain to secs. 7 and 18. Sand, mountainous and rolling. Soil, clay loam and gravelly; 2nd and 3rd rate. Timber, cedar and pinion pine. Undergrowth, sage brush

Subdivision of T. 16 S., R. 1 W.-Continued.

and shadscales.
Good grass for grazing.
Mountainous or heavily
timbered land, or land
d with dense under-
growth, 233.18 chs.
July 7, 1898: At this cor., we set
22° 33' N., on the decl. arc; and
- 0h 3m p.m., l.m.t., observe
the sun on the meridian,
resulting lat. is 39° 27' N.,
is about 0'.6 greater
than the proper lat.

north, bet. secs. 7 and 8.
Over mountainous land,
through heavy cedar and
pinion pine timber;
2.98 The closing cor. of secs. 8 and 17.
5.50 Top of ridge, 40 ft. above sec.
cor., bears N. 60° W. and S. 60° E.;
descend.
8.75 Bottom of hollow, 30 ft. below
ridge, course E.; ascend.
40.00 Set a sandstone, 14x12x12 ins.,
ins. in the ground, for ¼ sec
r., marked ¼ on W. face;
from which
A cedar, 5 ins. diam.,
S. 40° E., 20 lks. dist.,
¼ S. 8, B.T.
A cedar, 6 ins. diam.,
S. 73° W., 35 lks. dist., marked
¼ S. 7, B.T.
41.50 Top of ridge, 25 ft. above
ars E. and W.
46.50 Bottom of hollow, 30 ft. below
ridge, course E.; leave
enter scattering

Subdivision of T. 16 S., R. 1 W.-Continued.

chains	
	timber, bears with hollow; ascend.
58.00	Top of ridge, 30 ft. above hollow, bears N. 70° W. and S. 70° E.; descend.
62.50	Wash, 10 lks. wide, 3 ft. deep, in hollow, 30 ft. below ridge, course E.; ascend.
75.00	Old wood road, bears N. 25° E. and S. 25° W.
76.00	Road on ridge, 65 ft. above hollow, bears N. 34° E. and S. 34° W.; descend.
80.00	Set a quartzite stone, 16x15x10 ins., 11 ins. in the ground, for cor. of secs. 5, 6, 7, and 8, marked with 5 notches on S. and 5 notches on E. edges; from which Cedar, 12 ins. diam., bears S. 72° W., 41 lks. dist., marked T. 16 S., R. 1 W., S. 7, B. T. Cedar, 6 ins. diam., bears N. 20° W., 73 lks. dist., marked T. 16 S., R. 1 W., S. 6, B. T. No other trees within limits; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. Sand, mountainous. Soil, clay loam and gravelly; 2nd and 3rd rate. Timber, cedar and pinion pine. Good grass for grazing. Mountainous or heavily timbered land, 80.00 chs.

For reasons already explained, we run from cor. of secs. 4, 5, 8, and 9 west, on a true line bet. secs.

Subdivision of T. 16 S., R. 1 W.-Continued.

chains.	
	5 and 8.
	Over level land, through dense undergrowth.
4.75	Road, bears N. 25° E. and S. 25° W.
16.00	Begin ascent of mountain, bears N. 25° E. and S. 25° W. Leave dense undergrowth and scattering timber, bears N. 25° E. and S. 25° W.
40.00	Set a sandstone, 14 x 10 x 6 ins., 9 ins in the ground, for ¼ sec. cor., marked 4 on N. face; from whi
	Cedar, 4 ins. diam, bears N. 33° E., 30 lks. dist., marked ¼ S. 5, B. T.
	Cedar, 4 ins. diam, bears S. 37° 30' W., 28 lks. dist., marked ¼ S. 8, B. T.
69.50	Road on top of ridge, 100 ft. ¼ sec. cor., bears N. 38° E. and S. 80° W.; descend.
73.42	Intersect N. and S. line, 4.50 N. of the cor. of secs. 5, 6, 7, and 8. Set a limestone, 16 x 7 x 6 ins., 11 ins in the ground, for closing cor. of secs. 5 and 8, marked C. C. on E.; with 5 grooves on S. and 5 grooves on E. faces; and raise a mound of stones, 2 ft. base, 1½ ft. high, E. of cor. Pits impracticable.
	Note: We destroy all marks on the cor. of secs. 5, 6, 7, and 8, which pertain to secs. 5 and
	Sand, level and
	Soil, clay loam and gravelly; 2nd and 3rd rate.
	Timber, cedar and pinion pine.
	Undergrowth, sagebrush.
	Good grass for grazing.

Subdivision of T. 16 S., R. 1 W.—Continued.

chains	
	Mountainous land, or land covered with dense under growth, 7.3.4.2 chs.
	For reasons already explained, we run West, on a true line bet. secs. 6 and 7. Over mountainous land, through heavy cedar and pinion pine timber; descend.
7.00	Road in bottom of hollow, 80 ft. below cor., course N.
8.50	Leave road in bottom of hollow, course N. 80° W.; ascend.
12.25	Top of spur, 20 ft. above hollow, bears N. and S.; descend.
20.00	Foot of mountain, 50 ft. below ridge, bears N. and S. Leave timber, and enter dense undergrowth, bears N. and S. Thence over gently rolling land.
40.00	Set a quartzite stone, 16x12x8 ins., 11 ins. in the ground, for 4 sec. cor., marked 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.
52.85	Wash, 20 lks. wide, 4 ft. deep, course S. 20° W.
53.10	Wood road, bears N. 20° E. and S. 20° W.
58.00	Begin ascent of ridge, bears N. 20° E. and S. 20° W. Enter scattering timber, bears N. 20° E. and S. 20° W.
76.00	Top of ridge, 60 ft. above wash,

Subdivision of T. 16 S., R. 1 W.-Continued.

chains	
	bears N. 20° E. and S. 20° W.;
126.90	Leave timber, bears N. and S.
151.90	Foot of mountain, bears N. and S.; thence across Wash-board Valley.
186.30	Telephone line, leading from Jual to Scipio, bears N. 16° 30' E. and S. 16° 30' W.
197.40	County road leading from Jual to Scipio, bears N. 12° E. and S. 12° W.
- 231.90	Intersect W. bdy. of Tp. 1. 66 chs. N. 0° 35' E., from the ¼ sec. cor. bet. secs. 7 and 12, heretofore described. Set a limestone, 14x12x6 ins., 9 ins. in the ground, for closing cor. of secs. 6 and 7, marked C. C. on E.; with 1 groove on N. and 5 grooves on S. faces; dig pits, 24x18x12 ins., crosswise on each line, N. and S., 3 ft. and E. of stone, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, E. of cor.

Note: We destroy all marks on the cor. of secs. 1, 6, 7, and 12, which pertain to secs. 6 and.

Sand, mountainous, rolling and level.

Soil, clay and gravelly 2nd rate.

Timber, cedar and pinion pine.

Undergrowth, sagebrush and shadscales.

Good grass for grazing.

Mountainous or heavily timbered land, or land with dense undergrowth, 231.90 chs.

Subdivision of T. 16 S., R. 1 W. - Continued.

chains.	
X	From the cor. of secs. 6 and 7, we run North, on a true line bet. secs. 5 and 6. Over mountainous land, through heavy timber; descend.
4.50	The closing cor. of secs. 5 and 8.
5.50	Road bears N. 60° E. and S. 60° W., in hollow, 40 ft. below cor., course S. 60° W.; ascend.
10.50	Top of spur, 50 ft. above hollow, bears N. E. and S. W.; descend.
13.75	Bottom of hollow, 30 ft. below spur, course S. W.; ascend.
21.00	Top of ridge, 40 ft. above hollow, bears N. 32° E. and S. 32° W.; descend.
40.00	Set a limestone, 15 x 10 x 6 ins., 10 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; from which Cedar, 5 ins. diam., bears N. E., 18 lks. dist., marked ¼ S, 5, B.T. Cedar, 5 ins. diam., bears S. 50° W., 63 lks. dist., marked ¼ S. 6, B. T.
85.30	Intersect the Third Standard Parallel South, 9.40 chs. East of the Standard cor. of secs. 31 and 32, heretofore described. Set a granite stone, 18 x 12 x 8 ins., 12 ins. in the ground, for closing cor. of secs. 5 and 6, marked C. C. on S., with 5 grooves on E. and 1 groove on W. faces; from which Cedar, 14 ins. diam., bears S. 68° E., 74 lks. dist., marked T. 16 S., R. 1 W., S. 5, B. T. Cedar, 12 ins. diam., bears S. 62° 30' W., 76 lks. dist., mark-

Subdivision of T. 16 S., R. 1 W.-Continued.

ed T. 16 S., R. 1 W., S. 6, B. T.
Sand, mountainous and

soil, clay and gravelly
2nd and 3rd rate.
Timber, cedar and pini
pine.
Good grass for grazing.
Mountainous or heavily
timbered land, 85.30 chs.
July 7, 1898.

General Description.
This township contains
ly every variety of land,
level valleys to high mount-
, and the soil ranges
from rocky ground to rich
loam. The soil of the valleys
d low hills is generally
sandy or clay loam, is
of producing good
without irrigation,
and can be classed as 1st
2nd rate. The soil of the high
mountains and deep can-
ons is generally gravelly or
rocky, and can be classed
3rd and 4th rate.
Cedar and pinion pine
timber is found on most of
the hills and mountains,
while the valleys and
land is covered mostly
dense growth of sagebrush
and shadscales.
The township is fairly well
watered.
The Sevier River runs
31. Chriss' and Pierce's

Subdivision of T. 16 S., R. 1 W.- Concluded.

furnish plenty of water for grazing purposes and for irrigating some of the eastern portion of the township. We find no indications of mineral in the township. Isaac Pierce has a ranch of about 320 acres in secs. 3, 4, 9, and 10. A great many cattle and horses find an excellent range in this township, and may be found here all parts of the year.

We fail to find G. M. Bartholomew, H. E. No. 1070; William C. Mellor, No. 2983; H. M. Edwards, H. E. No. 3435; or J. P. Christensen, D.S. 4499; nor their improvements.

Henry Blair has a claim and is cultivating land in sec. 25.

Sylvester Pierce has a claim and is cultivating land in sec. 36.

This township is at present mainly valuable for grazing purposes, but there is a great deal of land for dryland farming.

There are no other settlers in this Tp.

Note.- In order to justify the method we followed in reestablishing the old lines on which to close our survey in the subdivisions of this township, viz - placing the old corners at proportional distances and on true lines between the

only original corners found, we give the following statement.

George H. Pierce, who is the only old resident in this township stated to us that he had been familiar with the land in this township since the year 1875 in which year he filed a homestead entry in the township. That at the time of making said entry no corners could be found in his neighborhood, except cor. of secs. 2, 3, 10, and 11 which cor. we also found. And that he knew of no other corners in the subdivisions of the township having been found, although he was very familiar with the country. During the progress of our survey, we searched as is shown in the field notes for each individual cor. in this township, but were unable to find trace of any of the original corners except those given in the notes.

Scott P. Stewart
~~Andrew J. Stewart Jr.~~
U. S. Deputy Survey

Retracement of the E. bdy. of T. 16 S., R. 2 W.-

chains.	
	June 25, 1898: At 7h 55m a.m., l.m.t., we set off 39°23'N., on the lat. arc; 23°24' N., on the decl. arc; and determine a true meridian at the cor. of Tps. 16 and 17 S., R. 2 W., heretofore described.
	Note: Before commencing the survey of the subdivision of T. 16 S., R. 1 W., we deem it necessary to retrace the E. bdy. of Tp. 16 S., R. 2 W., therefore from the above described cor., we run north, on a retracement line along E. side of sec. 36.
40.08	To all 41 lks. W. of the ¼ sec. cor. bet. secs. 31 and 36, which is a quartzite stone, 5 x 12 x 9 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general.
80.14	To all 8 lks. W. of the cor. of secs. 25, 30, 31, and 36, which is a sandstone, 6 x 12 x 10 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	The course of this line is therefore N. 0°35' E.
	north, on a retracement line along E. side of sec. 25.
40.08	To all 42 lks. W. of the ¼ sec. cor. bet. secs. 25 and 30, which is a sandstone, 6 x 15 x 9 ins., above ground, firmly set, and marked and witnessed as described by the surveyor.

Retracement of the E. bdy. of T. 16 S., R. 1 W.-Continue

general.

0.08 Fall 83 lks. W. of the cor. of secs. 19, 24, 25, and 30, which is a stone, 6x16x4 ins, above firmly set, and marked and witnessed as describe by the surveyor general. The course of this line is therefore N. 0° 35' E.

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north, on a retracement line along E. side of sec. 24.

40.12 Fall 42 lks. W. of the ¼ sec. cor., bet secs. 19 and 24, which is a sandstone, 5x14x8 ins., above ground, firmly set, and marked and witnessed as des by the surveyor general.

80.20 Fall 82 lks. W. of the cor. of secs. 13, 18, 19, and 24, which is a stone, 5x14x8 ins, above firmly set, and marked and witnessed as the surveyor general. The course of this line is therefore N. 0° 35' E.

north, on a retracement along E. side of sec. 13.

40.04 Fall 41 lks. W. of the ¼ sec. cor. bet. 13 and 18, which a sand-, 6x14x5 ins., above ground, firmly set, and marked and witnessed as described by the general.

80.16 Falls 8 lks. W. of the cor. of secs. 7, 12, 13 and 18, which is a sand-

chains.	
	stone, 7 x 10 x 5 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general. The course of this line is therefore N. 0° 35' E.
X	North, on a retracement line along E. side of sec. 12.
40.00	Fall 42 lks. W. of the ¼ sec. cor. bet. secs. 7 and 12, which is a sandstone, 4 x 10 x 9 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general.
80.19	Fall 83 lks. W. of the cor. of secs. 1, 6, 7, and 12, which is a sandstone, 6 x 13 x 10 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general. The course of this line is therefore N. 0° 35' E.
	North, on a retracement line along E. side of sec. 1.
40.23	Fall 41 lks. W. of the ¼ sec. cor. bet. secs. 1 and 6, which is a sandstone, 5 x 8 x 5 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general.
46.57	Fall 47 lks. W. of the closing standard cor. of T. 15 S., R. 1½ W. and T. 16 S., R. 1 W., heretofore described. The course of this line is

Retracement of the E. bdy. of T. 16 S., R. 5 W. - Concluded

N. 0°35' E.
June 25, 1898: At the noon sky is overcast and solar are impossible

Boundaries of T. 16 S., R. 1 W.
dis, departures & closings

			Dist.				
			Chs.	Chs.	Chs.	Chs.	Chs.
bdy.	.16 S., R. 1 W.		495.0	495.0			
n. bdy.	.16 S., R. 1 W.	est	29.25				29.25
	.T. 16 S., R. 1 W.		4.6		4.65		
bdy.	T. 16 S., R. 1 W.	est	83.6				83.64
n.	.T. 16 S., R. 1 W.	88°30'	241.59		6.32		41.5
n.	.T. 16 S., R. 1 W.	west	301.49				301.4
w.	.T. 16 S., R. 1	.0°35'	485.19		485.17		4.9
	.T. 16 S., R. 1 W.	-	265.0			85.0	
	.T. 16 S., R. 1	.88°30'	80.0	2.09		79.9	
	g. T. 16 S., R. 1	N. 89°39	96.50	1.81		96.4	
							.8
Tot				4 4 6	496.14	661.4	661.6
	in Sat.			2.76			6 4
							.8

Scott O. Stewart.
Andrew J. Stewart Jr.
U. S. Deputy Surveyors

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by .....

....., 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 .....

.....

showing the respective capacities in which they acted:

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

....., United States Deputy Surveyor, in surveying all those parts or portions of the .....

.....

.....

..... of the .....

..... meridian, ... of ....., 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 .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

.....

.....

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____ United States Surveyor General for _____, bearing date of the _____ day of _____, 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 Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____ _____ _____ _____ of the _____ _____ meridian, in the _____ of _____, 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 _____ 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.

_____

United States Deputy Surveyor.

Subscribed by said _____, and sworn to before me this _____ day of _____, 189

SEAL

_____

_____

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City Utah July 27, 1900, ~~189~~

The foregoing field notes of the survey of the subdivisions of Township 1 South Range 1 West of the Salt Lake Base and Meridian Utah

executed by Scott P. Stewart & Andrew J. Stewart Jr.

under ~~his~~ their contract No. 217, dated November 1st, 189~~9~~, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Jacob B. Blair

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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