Volume

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R0380

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FIELD NOTES

OF THE SURVEY OF THE

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Of the ..... *Meridian,*

In the State of .....

EXECUTED BY

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In the capacity of U. S. Surveyor....., *under instructions dated* ....., *191*....., *issued by the United States Surveyor General to govern surveys included in Group No.* ....., *which were approved by the Commissioner of the General Land Office,* ....., *191*....., *pursuant to authority contained in the Act of Congress dated* ....., *191*.....

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pages 63 to 69 incl.

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Survey commenced ....., *191*....

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FIELD NOTES

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FIELD NOTES

OF THE SURVEY OF THE

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Survey commenced ....., *191*....

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FIELD NOTES

OF THE SURVEY OF THE

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Survey commenced ....., *191*.....

Survey completed ....., *191*.....

EB & AKG

Filed Apr.3, 1912.
WSH.

F.S.

4—679

BOOK A-380

MSB

Book "Y"

FIELD NOTES

OF THE SURVEY ~~OF THE~~ RE AND

SURVEY OF THE WEST BOUNDARY

OF

T.25 S., R.26 E.

Of the SALT LAKE BASE AND *Meridian,*

In the State of UTAH

EXECUTED BY

HOWARD W. MILLER

In the capacity of U. S. ~~*Surveyor*~~ Transitmen, *under instructions dated* August 6, *1910*, and Supplemental Special Instructions dated September 20, 1910 *issued by the United States Surveyor General to govern surveys included in Group No.* 4, *which were approved by the Commissioner of the General Land Office,* Aug. 25 and Oct. 15, *1910*, respectively *pursuant to authority contained in the Act of Congress dated* ....., *191*....

Survey commenced June 3, *1911*,

Survey completed June 9, *1911*.

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NAMES AND DUTIES OF ASSISTANTS.

Roscoe Hallett,	Moundman.
Offie Scharf,	Axman.
Offie Scharf,	Flagman.

See "Z[1]" T.24 S., R.26 E.for list and certificate for remaining assistants.

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Township 25South, *Range* 26 East

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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 upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of .....

..... , *Chainman*

..... , *Chainman*

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

SEAL

~~We,~~ I Roscoe Hallett ~~and~~
do solemnly swear that ~~we~~ I will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the resurvey and survey of the West bdy. of T. 25 S., R. 26 E. S.L.B.& M. Utah.

Roscoe Hallett, *Moundman*

..... , *Moundman*

Subscribed and sworn to before me this 3
day of June, 1901

SEAL

Howard W. Miller
U. S. Transitman

~~We,~~ I Offie Schaef ~~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 resurvey and survey of the West bdy of T. 25 S., R. 26 E. S.L.B.& M., Utah.

..... , *Axman*

Offie Schaef, *Axman*

Subscribed and sworn to before me this 3
day of June, 1901

SEAL

Howard W. Miller
U. S. Transitman

I, Offie Schaef, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the resurvey ~~of~~ and survey of the W. bdy. of T. 25 S. R. 26 E. S.L. B.& M., Utah.

Offie Schaef, *Flagman*

Subscribed and sworn to before me this 3
day of June, 1901

SEAL

Howard W. Miller
U. S. Transitman

6—151

Resurvey of the West boundary of T. 25 S., R. 26 E.

Chains.

Survey commenced June 3, 1911 and executed with a W. & L. E. Gurley solar compass No. 1043, The horizontal limb is provided with one vernier which reads to single minutes of arc; which is also the least count of the verniers of the latitude and declination arcs.
The instrument was examined, tested on the true meridian at Salt Lake City, Utah; found correct, and was approved by the Surveyor General for Utah, March 29. 1911.
The sky was overcast during the night of June 2., observations on Polaris were impossible
June 3: At 9h 28m a.m. l.m.t., I set off 38° 37' on the lat. arc; 22° 15' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 19, 24, 25 and 30 on the W. bdy. of the tp., which is a sandstone 16 x 10 x 14 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General.
Thence I run
North, retracing line bet. secs 19 & 24. At 40.00 chs., I make a careful search but am unable to find any trace of the 1/4 sec. cor., I therefore continue my line North, making careful searches at intervals of 40.00 and 80.00 chs. for 1/4 sec. and sec. cors. and at 160.00 chs. I am unable to find no trace of the cor. of secs. 7, 12, 13 & 18. I therefore return to the cor. of secs. 19, 24, 25 & 30 and resurvey the range line bet. secs. 19 & 24 and 13 & 18 as follows:

Resurvey of the West boundary of T. 25 S., R. 26 E.

Chains	
	From the cor. of secs. 19, 24, 25 and 30 on the W. bdy. of the Tp., already described.
	I run North, resurveying bet. secs. 19 & 24. Over rough mountainous land through dense forest of cedar and pinon, and undergrowth of oak, chapparal, and service berry brush.
0.50	Ridge, bears E. & W.
	Gradually descend over north slope towards Beaver canyon.
32.50	Begin steep descent, enter heavy timber and dense brush.
40.00	170 ft. below sec. cor.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for restablished 1/4 sec. cor., marked on brass cap 1/4 S 24 on W. half, and S 19 on E. half, from which
	A pinon, 9 ins. diam., bears N. 14° W., 24 lks. dist., marked 1/4 S 24 B.T.
	A pinon, 13 ins. diam., bears S. 44° E., 11 1/2 lks. dist.; marked 1/4 S 19 B.T.
	Note: The sky is overcast at noon, observations for latitude impossible.
	Continue steep descent.
80.00	850 ft. below 1/4 sec. cor.
	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in a mound of stone 4 ft. base, 2 ft. high for restablished cor. of secs. 13, 18, 19 and 24, marked on brass cap T 25 S., on N. half, R 25 E S 13 in NW., R 26 E S 18 in NE., S 19 in SE., and S 24 in SW., quadrant,

Chains

from which.
A pinon, 16 ins. diam., bears N. 72½° E., 136 lks. dist., marked
T. 25 S R 26 E S 18 BT.
A pinon, 12 ins. diam., bears S. 59¼° E., 106 lks. dist., marked
T. 25 S R 26 E S 19 BT.
A pinon, 8 ins. diam., bears S. 35¼° W., 95 lks. dist., marked
T 25 S R 25 E S 24 BT
A pinon, 16 ins. diam., bears N. 59° W., 54 lks. dist., marked
T 25 S R 25 E S 13 BT.
Note. On account of natural obstacles I am unable to set post in the ground.
Land mountainous facing north and draining north to Beaver Canyon.
Soil; rocky on rock sub soil; 4th rate.
Timber, pinon and cedar with a few scattering yellow pine and fir.
Undergrowth, oak, chapparal and service berry brush.
Land mountainous, heavily timbered and covered with dense undergrowth and exceptionally difficult to survey
80.00 chs.

June 3, 1911.

June 3: At my camp which is situated near the cor. of secs. 19, 20, 29 & 30, T. 25 S., R. 26 E., latitude 38° 37' N., longitude 109° 06' 28" W., I set off 38° 37' on the lat. arc; 22° 18' on the decl. arc; and at 4h. 58m. p.m. l.m.t., determine with the

Chains

solar a meridian and mark a point in the line thereof, on a stone firmly set in the ground, 5 chs. N. of my station.

At 9h. 30m. p.m. by my watch which carries correct l.m.t., I observe Polaris in accordance with the Manual of instructions, and mark the direction thus determined by a tack driven in a picket firmly set, 5 chs. N. of my station

Astron. l.m.t. obsn. June 3.		9h	30m.
Equiv. to June 2		33	30. ✓
Astron. l.m.t. U.C. Polaris June 1, 20h 47.8			✓
Reduction to June 2	3.9		
Astron. l.m.t. U.C. Polaris June 2	20 43.9,	20	43.9 ✓
Hour angle of Polaris at obsn.		12	46.1 ✓
Subract from		23	56.1 ✓
Hour angle + time argument		11	10.0 ✓
Azimuth of Polaris at obsn.		0°	17' E. ✓

June 3, 1911

June 4: At 6h. 58m. a.m. l.m.t., I lay off the azimuth of Polaris, 0° 17' to the west, and mark the meridian thus determined, by cutting a small groove in the stone set June 3, on which the meridian falls 0.4 lks. east of the mark determined by the solar.

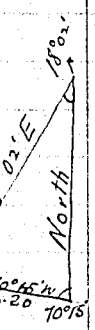
At 7h. 28m. a.m. l.m.t., I set off 38° 37' on the lat. arc; 22° 22' N. on the decl. arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark falls 0.5 lks. east of the meridian established by the Polaris observation.

The solar apparatus by P.M. and a.m. observations defines positions

Chains.	
	for meridians, respectively about 21" west and 25" east of the meridian established by the Polaris observation, therefore I conclude that the adjustments of the instrument are satisfactory The magnetic bearing of the true meridian at 8h. a.m., is N15°15' W., which gives the magnetic decl. 15°15' E. June 4, 1911
	June 5: at 8h. 28m. a.m. l.m.t., I set off 38° 38' on the lat. arc., 22° 29' N., on the decl. arc., and determine a meridian with the solar at the cor. of secs. 13, 18, 19 and 24. Thence I run North, resurveying bet. secs. 13 & 18. Descend over mount amous land facing north, through dense forest of cedar and pinon and undergrowth of oak, sage, chapparal and buck brush.
31.30	Ledge and south side of canyon, bears NW. & SE. Descend abruptly.
37.20	Wash in canyon, 15 lks. wide, 200 ft below sec. cor., and 1500 ft. below cor. of secs. 19, 24, 25 & 30, course NW. Ascend abruptly over ledges 50 to 60 ft. high
40.00	Point for 1/4 sec. cor. falls on ledge where cor. cannot be set.
45.00	On top ledges and north side of canyon, 200 ft. above base, bears NW. and SE. At this point, set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the

Chains.

ground for witness cor. to the 1/4 sec. cor., marked on brass cap T 25 S. on N. half, R. 26 E S 18 in E. half, R 25 E S 13 in W. half with WC 1/4 to the south, from which
A pinon 9 ins. diam., bears N. 16° W., 36 1/2 lks. dist., marked
WC 1/4 S 13 BT
A pinon, 9 ins. diam., bears S. 35 1/4° E., 26 lks. dist., marked
WC 1/4 S 18 BT
Thence over rocky land facing nearly west
63.36 Ridge, over Beaver canyon; bears NW. + E.
Canyon at this point is about 700 ft. deep, and cannot be crossed within a distance of 5 miles to the west, as it is cut in solid sandstone with vertical walls, 200 to 300 ft. high.
On account of high ledges and breaks, I am unable to prolong my line north by chaining
To determine the distance to a rock point projecting into canyon on line I set a flag on line on point, then measure a base line, N. 70° 15' W., 6.20 chs. to a point from which flag bears N. 18° 02' E. From the west end of base the flag bears S. 18° 02' W.; by separate measurement of each angle they are found respectively, 70° 15', 91° 43' and 18° 02'.



log 6.20 chs. = 792392
log sin 91° 43' = 9.999805
colog sin 18° 02' = 0.509241
log .301438 = 20.02 chs.
also 63.36 + 20.02 makes
83.38 To high rock point over Beaver

Chains

canyon, brass SE & NE.
True cor. point of secs. 7, 12, 13 & 18 at 80.00 chs. falls on inaccessible ground where cor. cannot be set, therefore, at this point set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in a mound of stone, 4 ft. base, 2 ft. high for witness cor. to secs. 7, 12, 13 & 18, marked on brass cap

T 25 S

R 25 E	R 26 E
S 12	S 7
S 13	S 18

raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
Pits impracticable
No trees within limits
Note: on account of natural obstacles I am unable to set post in the ground.
Land, mountainous with a general drain to the north.
Soil, rocky on rocky sub-soil, 4th rate.
Timber, pinon and cedar.
Undergrowth, oak, sage, chapparal and buckbrush.
Land, mountainous, heavily timbered and covered with dense undergrowth and exceptionally difficult to survey.
83.38 ch.
Note: I am unable at this cor. to obtain a base line to triangulate across Beaver canyon which is impassible. I erect a high signal at this witness cor.

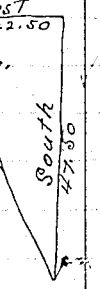
June 5, 1911

West boundary of T. 25 S., R. 26 E.

Chains

Survey commenced June 8, 1911 and executed with the solar compass used in the resurvey of this Tp. bdy. I know the instrument to be in perfect adjustment by testing it upon observations on Polaris at my camp in sec. 29, T. 25 S., R 26 E.

June 8: At 7h. 59m. a.m. l.m.t., I set off 38° 44' on the lat. arc., 22° 48' N. on the decl. arc, and determine a meridian with the solar at a point on a high ridge on the north side of Beaver canyon which is north of my signal set at the witness cor. to secs. 7, 12, 13 & 18, 3.38 chs. N. of true point. From this point I triangulate across Beaver canyon as follows: Measure a base line west, 22.50 chs., to a point from which flag at the witness cor bears S 25° 21' E. Therefore tan 64° 39' x base or 2.111 x 22.50 chs. makes 47.50 chs which added to 3.38 chains makes 50.88 chs. north of the true cor. point of secs. 7, 12, 13 & 18. I now chain S. 10.88 chs to



40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1/4 S 12 on W. half and S 7 on E. half, from which

A juniper, 6 ins. in diam., bears East 10 lks. dist., marked 1/4 S 7 BT

A juniper, 9 ins. in diam., bears S 33 3/4° W., 14 lks. dist., marked 1/4 S 12 BT.

Note: This cor. is situated on high ledge on north wall of Beaver Canyon, bearing E & W. The bottom of canyon is S. about 30 chs. and about 1500 ft. below.

West boundary of T. 25 S R. 26 E.

Chains.	
	From the 1/4 sec. cor. I run North, bet. secs. 7 & 12. over mountainous land through dense forest of cedar and pinon and undergrowth of sage and chapparal. Ascend abruptly over ledges.
45.00	Top of ledges, 150 ft. above 1/4 sec. cor., bears E. & W. Continue gradual ascent.
50.86	Point of triangulation and high ridge, 1700 ft. above Beaver canyon, bears NW. & SE. Gradually descend over land facing nearly east, through heavy timber
72.75	Wash in canyon, 20 lks. wide, 100 ft. below ridge, course SE. Ascend abruptly 75 ft. to
78.00	Ridge, bears E. & W. Gradually descend.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia.; 24 ins. in the ground for cor. of secs. 1, 6, 7 & 12, marked on brass cap T 25 S on N. half, R 25 E S 1 in NW., R 26 E S 6 in NE., S 7 in SE. and S 12 in SW. quadrant,
	from which A pinon, 12 ins. diam., bears N. 10½° E. 24 lks. dist., marked T 25 S R 26 E S 6 BT A cedar, 6 ins. diam., bears S. 62° E., 96 lks. dist., marked T 25 S R 26 E S 7 BT A pinon, 6 ins. diam., bears S. 18° W., 163 lks. dist., marked T 25 S R 25 E S 12 BT A pinon, 12 ins. diam., bears N. 81½° W.

West boundary of T. 25 S., R. 26 E.

Chains	
	41 lks. dist., marked T 25 S R 25 E S 1 B T. Land, mountainous draining E. S. 40 chs. cut by a deep canyon with vertical walls of sandstone 200 to 300 ft high and impassible for man. N. 40 chs. broken mountainous land with a general easterly drain and slope, on north side of canyon. Soil, rocky on rock sub-soil; 4th rate. Timber, pinon and cedar. Undergrowth, sage and chapparal. Land mountainous heavily timbered and covered with dense undergrowth and exceptionally difficult to survey 80.00 chs. Note: The sky is overcast at noon observations for latitude are impossible
	North, bet. secs. 1 and 6. over mountainous land, through dense forest of cedar and pinon and undergrowth of sage brush.
1.50	Leave timber, bears E. & W. Thence over rolling land facing E., through dense brush.
29.95	Trail, bears NE. and SW.
31.25	Enter dense pinon and cedar timber, bears NE. and SW.
39.00	Wash, 20 lks. wide, 5 ft. deep, course NE.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in a mound of stone 4 ft. base, 2 ft. high for 1/4 Sec. cor., marked on brass cap 1/4 S 1 on W. half and S 6 on E. half, from which

Chains	
	A pinon, 6 ins. diam., bears S. 52° E., 9 lks. dist., marked 1/4 S 6 BT
	A pinon 10 ins. diam., bears S. 72° W., 45 1/2 lks. dist., marked 1/4 S 1 BT.
	Note: on account of natural obstacles I am unable to set post in the ground. At 2 P.M. heavy storm of rain prevents field work.
	June 8, 1911
	June 9: At 7h. 59m. a.m. l.m.t., I set off 38° 40' on the lat. arc., 22° 53 1/2' N. on the decl. arc; and determine a meridian with the solar at the 1/4 sec. cor.
	Thence I run
	North
69.40	Wash, 15 lks. wide, 5 ft. deep, course E.
75.50	Wash, 20 lks. wide, 10 ft. deep course S. 80° E.
	Base of high ledges bear NW. 10 ch. thence SW. and East.
	Ascend abruptly over ledges.
80.20	Top of ledges, 400 ft. above 1/4 sec. cor., bear NW. & S. 80° E.
	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in a mound of stone 4 ft. base, 2 ft. high for cor. of TS. 24 & 25 S., Rs. 25 and 26 E., marked on brass cap
	T 24 S on N. half,
	T 25 S on S. half,
	R 25 E S 36 in NW.,
	R 26 E S 31 in NE.,
	S 6 R 26 E in SE. and
	S 1 R 25 E in SW. quadrant,
	from which
	A cedar, 12 ins. diam., bears N. 69 3/4° E.

West boundary of T 25 S., R. 26 E.

Chains

53 lks. dist., marked
T 24 S R 26 E S 31 BT
A cedar, 12 ins. diam., bears S. 16½° E.,
90 lks. dist., marked
T 25 S R 26 E S 6 BT
A pinon, 8 ins. diam., bears S. 34¾° W.,
75 lks. dist., marked
T 25 S R 25 E S 1 BT.
A pinon, 12 ins. diam., bears N. 70½° W.,
33 lks. dist., marked
T 24 S R 25 E S 36 BT.
Note: on account of natural obstacles I am unable to set post in the ground.
Land rolling and mountainous with an easterly drain.
S 31 chs. rolling land covered with a dense undergrowth of sage brush. Soil, rich sandy loam with a deep sand sub-soil. Some good grass for grazing.
59.20 chs. mountainous land with rocky E. and S. slopes. Soil, rocky on rocky sub soil; 4th rate.
Timber, dense cedar and pinon of no value.
Land mountainous, heavily timbered or covered with dense undergrowth, 80.00 chs.

General Description

This portion of the range line between T. 25 S., Rs. 25 and 26 E., as surveyed under this assignment passes over exceptionally rough mountainous land and is cut by a deep impassible canyon which has a general north east drain.

General Description:

The soil is chiefly rock having a rock sub soil, and can be classed as 4th rate.

Dense forests of pinon and cedar with a few yellow pine and fir are found along the line. The under-growth is chiefly sage brush, with some oak, chapparal, service and buck brush.

Howard W Miller
U. S. Transit man

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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 Howard W Miller, Transitman, United States ~~Deputy Surveyor,~~ to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the resurvey ~~of~~ and survey of the West bdy. of T. 25 S., R. 26 E of the S.L.B.& M., Utah, showing the respective capacities in which they acted:

..., *Chainman.*

..., *Chainman.*

..., *Moundman.*

Roscoe Hallett, *Moundman.* ✓

Offie Schaf, *Axman.* ✓

..., *Axman.*

Offie Schaf, *Flagman.* ✓

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Howard W Miller, Transitman, United States ~~Deputy Surveyor,~~ in surveying all those parts or portions of the resurvey and survey of the West boundary of T. 25 S. R. 26 E.

..., of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

..., *Chainman.*

..., *Chainman.*

..., *Moundman.*

Roscoe Hallett, *Moundman.* ✓

..., *Axman.*

Offie Schaf, *Axman.* ✓

Offie Schaf, *Flagman.* ✓

Subscribed and sworn to before me this 9 day of June, 1911

SEAL

Howard W Miller
U. S. Transitman

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Howard W. Miller, United States ~~Deputy Surveyor~~ Transitman, do solemnly swear that, in pursuance of a ~~contract~~ special instructions received from Thomas Hull United States Surveyor General for Utah, bearing date of the 6 day of August, 1910 and supplemental special instructions dated Sept. 20, 1910 ~~190~~, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of retracement of E. W. & W. bdrs. T. 20 S. R. 24 E.; E. bdy. T. 20 S. R. 25 E.; S. & E. bdrs. T. 21 S. R. 25 E.; S. bdy. T. 21 S. R. 26 E.; ~~res. and ret. W. bdy. T. 21 S., R. 25 E.; E. bdy.; res. S. & W. and ret.~~ N. bdrs. T. 22 S. R. 24 E.; S. & W. bdy. and ret. N. and res. E. bdrs. T. 22 S. R. 23 E.; and S. & W. bdrs. and resurvey N. bdy. T. 22 S., R. 22 E.; and res. and survey W. bdy. T. 25 S., R. 26 E. of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes in books E. C. F. I. K. O. S. U. W. & Y as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Howard W. Miller
~~United States Deputy Surveyor~~.
United States Transitman

Subscribed by said Howard W. Miller, and sworn to before ~~me~~ this 3d day of April, 1912 ~~190xx~~

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 25, 1913 ~~190xx~~

The foregoing field notes of the re survey of and survey of the West Boundary of Township No. 25 South, Range No. 26 East of the Salt Lake Base and Meridian, Utah,

executed by Howard W. Miller under his ~~contract No.~~ special instructions, dated August 6, 1910 and Supplemental special instructions dated Sept. 20, 1910 having been ~~190~~, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor General.

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

United States Surveyor General.

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VIF 3

Filed Apr.3, 1912.

WSH.

BOOK A-380

KFB

Book "Z"

FIELD NOTES

OF THE SURVEY OF THE

SOUTH, WEST, AND NORTH BOUNDARIES

OF

TOWNSHIP 24 SOUTH,

RANGE 26 EAST

RETRACEMENT OF THE 116th MILE

AND

RESURVEY OF THE 119,120, 121, 122 and 123 MILES

UTAH-COLORADO BOUNDARY LINE

Of the SALT LAKE BASE AND *Meridian,*

In the State of UTAH

EXECUTED BY

HOWARD W. MILLER

In the capacity of U. S. ~~*Surveyor*~~ Transitman, *under instructions dated* August 6, *191*0, and Supplemental Special Instructions Dated September 20, 1910 *issued by the United States Surveyor General to govern surveys included in Group No.* 4, *which were approved by the Commissioner of the General Land Office,* Aug.25 and Oct.15, *191*0 respectively *pursuant to authority contained in the Act of Congress dated* ....., *191*..

Survey commenced June 9, *191*1

Survey completed June 30, *191*1

NAMES AND DUTIES OF ASSISTANTS.

Roscoe Hallett,	Moundman.
Offie Scharf,	Flagman.
Offie Scharf,	Axman.

For list and certificate of remaining assistants see book Z^1 T.24 R.26 E.

BOOK A-330

INDEX DIAGRAM.

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

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

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BOOK A-380

INDEX DIAGRAM.

Township 24 South, Range 26 East.

20	21	24				
17	6	5	4	3	2	1
15	7	8	9	10	11	12
14	18	17	16	15	14	13
12	19	20	21	22	23	24
10	30	29	28	27	26	25
8	31	32	33	34	35	36
	1	13	6			

~~Meanders Page~~

Utah - Colorado boundary line pages 25 to 31

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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 upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of .....

..... *Chainman*

..... *Chainman*

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

SEAL

~~We,~~ I Roscoe Hallett ~~and~~
do solemnly swear that ~~we~~ I will well and truly perform the duties of ~~moundmen~~ a moundman in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of the S, W. & N. bdrs, T. 24 S., R. 26 E., Retracement of the 116th mile & survey of the 119 -- 123rd mile Utah - Colorado bdy. line.

Roscoe Hallett *Moundman*

..... *Moundman*

Subscribed and sworn to before me this 9
day of June, ~~190~~ 1911

SEAL

Howard W. Miller
U. S. Transitman

~~We,~~ I Offie Schaf ~~and~~
do solemnly swear that ~~we~~ I will well and truly perform the duties of ~~axmen~~ an axman 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 S, W. & N. bdrs. T. 24 S., R. 26 E., Retracement of the 116th mile and survey of the 119 – 123 mile, Utah-Colorado bdy. line

Offie Schaf *Axman*

..... *Axman*

Subscribed and sworn to before me this 9
day of June, ~~190~~ 1911

SEAL

Howard W. Miller
U. S. Transitman

I, Offie Schaf, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the S., W. & N. bdrs; T. 24 S., R. 26 E., Retracement of the 116th mile & survey of the 119 – 123 mile, Utah - Colorado bdy. line

Offie Schaf *Flagman*

Subscribed and sworn to before me this 9
day of June, ~~190~~ 1911

SEAL

Howard W. Miller
U. S. Transitman

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South boundary of T. 24 S., R. 26 E.

Chains	
	Survey commenced June 9, and executed with a W. & S. E. Gurley solar compass No. 1043.
	For description and test of instrument see book "Y" of this survey.
	I know my instrument to be in perfect adjustment by recent tests on observations of Polaris.
	For solar observation see line bet. secs. 1 & 6, W. bdy. T. 25 S., R. 26 E.
	From the cor. of T.s. 24 & 25 S., Rs. 25 and 26 E., heretofore described
	I run
	East, bet. secs. 6 & 31.
	Over rough mountainous land, through dense forest of cedar and pinon and undergrowth of chaparral and buck brush.
	Ascend abruptly
2.00	High ridge spur, 75 ft. above tp. cor. brars NW. and S. 60° E.
	Thence descend over exceptionally difficult NE. slope over ledges 25 to 50 ft. high and through dense timber and thick brush.
31.60	Base of steep descent, 500 ft. below spur and trail brars N. & S.
	A spring of good water brars NW. about 15 chs.
	Continue descent over land facing nearly east.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground for 1/4 sec. cor., marked on brass cap 1/4 S 31 on N. half and S 6 on S. half, from which
	A pinon, 14 ins. diam., brars N. 15½° E. 92 lks. dist., marked 1/4 S 31 BT
	A pinon, 10 ins. diam, brars S. 19¾° W.

Chains	
	36 lks. dist., marked. 1/4 S 6 BT.
46.80	Wash in canyon, 75 lks. wide, 675 ft. below spur, course NE. Thence over broken land.
62.66	At this point I observe that it will be the only place where an accurate base line can be layed off to triangulate across Beaver canyon. I erect a high signal at this point and measure a base line north 34.00 chs. to a point where I also erect another signal. This is the longest base line that I am able to secure. Gradually descend over land facing east, towards Beaver canyon.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of secs. 5, 6, 31 and 32, marked on brass cap T 24 S R 26 E on N. half, T 25 S on S. half, S 31 in NW., S 32 in NE., S 5 in SE. and S 6 in SW. quadrant, from which A pinon, 6 ins. diam., bears N. 38 3/4° E., 100 lks. dist., marked T 24 S R 26 E S 32 BT A cedar, 10 ins. diam., bears S. 79° E., 39 lks. dist., marked T 25 S R 26 E S 5 BT A pinon, 7 ins. diam., bears S. 78 1/4° W., 26 1/2 lks. dist., marked T 25 S R 26 E S 6 BT A pinon, 10 ins. diam., bears N. 3 3/4° W., 152 lks. dist., marked T 24 S R 26 E S 31 BT. Land, mount amous with a

Chains	
	general easterly drain. Soil, rocky on rocky sub-soil; 4th rate. Timber, dense pinon and cedar Undergrowth, chapparal, buck, and sage brush. Land mountainous, heavily timbered and covered with dense undergrowth 80.00 chs. June 9: At this sec. cor., I set off 22° 54' N., on the decl. arc; and at 11h. 59m. a.m. l.m.t., observe the sun on the meridian, the resulting lat. is 38° 41'
	East, bet. secs. 5 & 32. Over mountainous land, descending towards Beaver canyon, through dense forest of cedar and pinon and under-growth of sage brush.
4.00	West side of Beaver canyon, about 1000 ft. deep with vertical walls of sandstone, 100 to 300 ft. high, bears N. & S. Further measurement of line impossible until I reach the east side of canyon. June 9, 1911. June 15: At 9h. a.m. l.m.t., I set off 38° 41' on the lat. arc; 23° 18' N. on the decl. arc; and determine a meridian with the solar at a point on a high bluff on east side of Beaver canyon, which is East of my flag set at 62.66 chs. east of the cor. of Ts. 24 & 25 S., Rs. 25 and 26 E., and also east of the cor. of secs. 5, 6, 31 and 32. From this point the north end of

Chains

of the base line, which has been measured N. 34.00 chs. from a point 62.66 chs. E. of the cor. of Ts. 24 & 25 S., Rs. 25 and 26 E., bears N. 72° 52' W., therefore cotan. 17°08' × base or 3.24383 × 34 = 110.29 chs., which added to 62.66 chs. makes 172.95 chs. east of the tp. cor., or 12.95 chs. East of the true cor. point of secs. 4, 5, 32 & 33.

Note. This point is situated on edge of first bench from Beaver canyon and is about 1500 ft. above canyon. It is also the nearest point to canyon from which the north end of the base line can be seen. A longer base line could not be secured on either side of canyon.

In order to establish the cor. of secs. 4, 5, 32 and 33 and the 1/4 sec. cor. bet. secs. 5 & 32 I measure West. 12.15 chs. or at

80.80 East of the cor. of secs. 5, 6, 31 & 32 I observe that the true cor. point for secs. 4, 5, 32 and 33 will fall on ledges where corner cannot be set, therefore at this point Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in a mound of stone, 4 ft. base, 2 ft. high for witness cor. to secs. 4, 5, 32 and 33, marked on brass cap

T 24 S | R 26 E
S 32 | S 33
—— WC ——
S 5 | S 4
T 25 S

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

chains	
	Pits impracticable. Trees within limits in all secs. but none suitable for bearing trees. Note: On account of natural obstacles I am unable to set post in the ground. From witness cor. I continue West.
0.80	The true cor. point of secs. 4, 5, 32 and 33 falls on ledge where cor. cannot be set. Thence West from true cor. point bet. secs. 5 and 32. Descend abruptly over steep rocky mountainous land facing W., through forest of cedar and pinon and undergrowth of chaparral.
29.50	Wash in canyon, 20 lks. wide, 250 ft. below witness cor., course NW. Ascend 35 ft. to
31.00	East side of Beaver canyon, about 1000 ft. deep, with vertical sandstone walls about 200 ft. high, Point for 1/4 secs. cor. falls on wall of canyon where cor. cannot be set, therefore at this point 9.00 chs. E. of true point for 1/4 Sec. cor. at 40 chs. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for witness cor. to the 1/4 sec. cor., marked on brass cap T. 24 S R 26 E S 32 on N. half, T. 25 S S 5 on S half, with WC 1/4 to the West, from which.
	A pinon, 7 ins. diam., bears N. 6° W., 19 lks. dist., marked W C 1/4 S 32 BT
	A pinon, 7 ins. diam., bears S. 68° E., 70 lks. dist., marked

Chains	
	WC 1/4 S 5 BT Land, mountainous W 4 chs. E. slope of Beaver Canyon E. 31 chs. W. slope of Canyon. Soil, rocky on rocky sub-soil; 4th rate. Timber, pinon and cedar. Undergrowth, chaparral. Land mountainous, heavily timbered and covered with dense undergrowth 8000 chs.
	East, bet. secs. 4 + 33, from true cor. point. Ascend abruptly over mountainous land facing west, through forest of pinon and cedar and undergrowth of chaparral.
0.80	The witness cor. to secs. 4, 5, 32 + 33 heretofore described. June 15: The sky is over cast at noon observations for latitude impossible
12.95	Top of bluff, 250 ft. above cor. point of secs. 4, 5, 32 + 33, bears N. 20° E + S. 20° W. Point of triangulation. Gradually ascend through dense timber
36.37	Intersect Utah, Colorado state boundary line, 1.27 chs. N. 0° 15' W., of the 115th mile cor., which is a limestone 16 x 10 x 6 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General. Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for closing cor. of T. 24 + 25 S. R. 26 E., marked on brass cap.

Chains.

✓CC 115 m C on E. half,
✓T 24 S S 33 R 26 E T 25 S S 4 U. on
W. half, from which
A pinon, 10 ins. diam., bears S. 48° W.,
96 lks. dist., marked
✓T 25 S R 26 E S 4 BT
A pinon, 9 ins. diam., bears N. 54¼° W.,
48 lks. dist., marked
✓T 24 S R 26 E S 33 BT.
Land, mountainous, with
a general west slope and
drain towards Beaver Canyon.
Soil, rocky and some gravelly. 4th
rate.
Sub-soil rocky.
Timber, dense cedar and
pinon.
Underg rowth, chaparral.
Land, mountainous heavily
timbered and covered with
dense undergrowth and except-
ionally difficult to survey 36.37
chs.
Some good grass for grazing on
E. 15 chs.

June 15, 1911

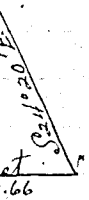
West boundary of T. 24 S., R. 26 E.

Chains

Survey commenced June 9, 1911
and executed with a W. & S. E.
Gurley solar compass No. 10343.
For description and test of instrument see book "Ij" of this survey.
I know my instrument to be in perfect adjustment by observations made on Polaris June 3 1911.
June 9: For solar observation see line bet. secs. 1 & 6, W. bdy., T. 25 S., R. 26 E.
From the cor. of Ts. 24 & 25 S., Rs. 25 and 26 E., already described
North, bet. secs. 31 and 36.
Over rough mountainous land through dense forest of pinon and cedar and undergrowth of oak and buck brush.
Ascend abruptly 40 ft. to
1.40 Top of ridge spur, bears N. 80° W., and S. 60° E. Set flag for future reference.
Descend abruptly over land facing N., through dense timber and brush and over series of small sandstone ledges 10 to 20 ft. high
28.00 Wash in canyon, 25 lks. wide, 525 ft. below ridge, course N. 80° E.
Seeps of good water in canyon.
Ascend abruptly 125 ft. to
40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1/4 S 36 on W. half and S 31 on E. half, from which
A pinon, 15 ins. diam., bears N. 65° E., 81 lks. dist., marked
1/4 S 31 BT
A pinon, 8 ins. diam., bears S. 53 1/4° W., 177 lks. dist., marked.

chains	
	1/4 S. 36 BT.
	Gradually ascend.
43.00	Spur, projects N. 80° E.
	Descend along eastern slope of high ridge.
52.00	Hollow, 100 ft. deep, drains N. 60° E.
	Ascend 175 ft. to
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of secs. 25, 30, 31 and 36, marked on brass cap T 24 S on N. half, R 25 E S 25 in NW., R 26 E S 30 in NE., S 31 in SE. and S 36 in SW. quadrant,
	from which
	A pinon, 8 ins. diam., bears N. 65 1/4° E., 74 lks. dist., marked T 24 S R 26 E S 30 BT.
	A pinon, 7 ins. diam., bears S. 27 3/4° E., 59 lks. dist., marked T 24 S R 26 E S 31 BT.
	A cedar, 11 ins. diam., bears S. 47 1/2° W., 53 lks. dist., marked T. 24 S R 25 E S 36 BT
	A pinon, 12 ins. diam., bears N. 68 1/4° W., 70 lks. dist., marked T 24 S R 25 E S 25 BT.
	Land mountainous with a general NE. drain.
	Soil, rocky; 4th rate.
	Sub-soil, rocky.
	Timber, pinon and cedar
	Undergrowth, oak and buck brush.
	Land, mountainous, heavily timbered and covered with dense undergrowth 80.00 chs.

Chains	
	June 9, 1911
	June 10: At 8h. a.m. l.m.t., I set off 38° 41½' on the lat. arc, 22° 54' N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 25, 30, 31 and 36.
	Thence I run
	North, bet. secs. 25 and 30.
	Gradually ascend over eastern slope of high ridge, through dense forest of scrub pinon and cedar and undergrowth of shadscale
5.00	Flat spur, projects East.
	Descend
20.00	Wash in hollow, 150 ft. deep, course East.
	Thence ascend over ledges along east side of ridge
24.00	I am unable to prolong my line north on account of many inaccessible ledges, 60 to 100 ft. high.
	Being unable to secure a base line at this point, I now place my transit, north, on top of a high ridge. From this station the cor. of secs. 25, 30, 31 & 36 and my flag already set, 1.40 chs. north of the cor. of Ts. 24 & 25 S., Rs. 25 & 26 E. bears south. I have already set a flag at 67.66 chs. east of the cor. of Ts. 24 & 25 S., Rs. 25 & 26 E. which is plainly visible from this point and bears S. 24° 20' E. Cotan. 24° 20' × base or 2.2113 × 67.66 chs. makes 138.56 chs. from tp. cor., or 58.56 chs. N. of the cor. of secs. 25, 30, 31 & 36.
	I now measure south 4.06 chs. to edge of impassible ledges. The 1/4 sec.



chains	
	cor. at 40 chs. falls on inaccessible ground where cor. cannot be set, therefore at this point or
54.50	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in a mound of stone 4 ft. base, 2 ft. high for witness cor. to the 1/4 sec. cor., marked on brass cap T 24 S on N. half, R 26 E S 30 on E. half, R 25 E S 25 on W. half, with W. C 1/4 to the south, raise a mound of stone, 2 ft. base, 1 1/2 ft. high W. of cor.
	Pits impracticable
	Trees within limits but none suitable for bearing trees.
	Note, on account of natural obstacles I am unable to set post in the ground.
	Ascend abruptly over ledges.
58.56	Top of high ridge, 675 ft. above sec. cor., bears E. & W.
	Point of triangulation
	Thence over flat top ridge through dense timber and undergrowth of chaparral and buck brush.
66.00	Edge of ridge, bears NW. & SE.
	Descend abruptly.
80.00	350 ft. below ridge.
	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in a mound of stone 4 ft. base, 2 ft. high for cor. of secs. 19, 24, 25 and 30, marked on brass cap
	T 24 S on N. half
	R 25 E S 24 in NW.,
	R 26 E S 19 in NE.,
	S 30 in SE. and
	S 25 in SW. quadrant,
	raise a mound of stone, 2 ft. base,

West boundary of T. 24 S., R. 26 E.

Chains	
	1½ ft. high W. of cor. Pits impracticable. Trees within limits in all secs. but none suitable for bearing trees. Land, mountainous. This line is extremely rough, passing along the eastern slope of a high ridge which has about a 25° slope. Soil, rocky; 4th rate Sub-soil, rocky. Timber, pinon and cedar. Undergrowth, chaparral and buck brush. Land, mountainous heavily timbered and covered with dense undergrowth 80.00 chs. June 10: At this sec. cor. I set off 22° 59' N., on the decl. arc; and at 12h. 00m. m. l. m. t, observe the sun on the meridian; the resulting lat. is 38° 42½'
	North, bet. secs. 19 & 24 over rough rocky mountainous land draining east, through dense forest of scrub cedar and pinon and undergrowth of chaparral. Descend along eastern slope of ridge
12.50	Hollow, 200 ft. below sec. cor., drains E. Ascend abruptly over ledges, 275 ft. to
30.20	Spur, projects E. about 15 chs. Descend abruptly over ledges on N. slope of spur.
40.00	200 ft. below spur. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins in the ground for 1/4 sec. cor., marked on brass cap

West boundary of T. 24 S., R. 26 E.

chains	
	1/4 S 24 on W. half and S 19 on E. half, from which
	A pinon, 7 ins. diam., bears N. 28° E., 21 lks. dist., marked 1/4 S 19 BT
	A pinon 9 ins. diam., bears S. 62° W., 46 lks. dist., marked 1/4 S 24 BT.
	Continue to descend
67.35	Wash in hollow, 30 lks. wide, 125 ft. below 1/4 sec. cor., course NE.
73.80	Same wash in hollow, drains NW
76.20	Same wash in hollow, drains NE.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of secs. 13, 18, 19 and 24, marked on brass cap T 24 S on N. half. R 25 E S 13 in NW., R 26 E S 18 in NE., S 19 in SE. and S 24 in SW. quadrant,
	from which
	A cedar, 6 ins. diam., bears N. 45½° E., 66 lks. dist., marked T 24 S R 26 E S 18 BT
	A pinon, 10 ins. diam., bears S. 27° E. 56 lks. dist., marked T 24 S R 26 E S 19 BT
	A pinon, 15 ins. diam., bears S. 12¾° W, 58 lks. dist., marked T 24 S R 25 E S 24 BT.
	A cedar, 10 ins. diam., bears N. 48¾° W., 55 lks. dist., marked T 24 S R 25 E S 13 BT
	Land, mountainous with a general NE. drain and with steep slopes of ridges.
	Soil, rocky; 4th. rate.
	Sub-soil, rocky.

West boundary of T. 24 S., R. 26 E.

Chains.	
	Timber, pinon and cedar. Undergrowth, chaparral. Land mountainous, heavily timbered and covered with dense undergrowth, 80.00 chs.
	North, bet. secs. 13 & 18. Over mountainous land draining east, through forest of pinon and cedar and undergrowth of sage brush. Gradually descend.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1/4 S 13 on W. hay and S 18 on E. hay, from which A cedar, 11 ins. diam., bears S. 68½° E., 141 lks. dist., marked 1/4 S 18 B.T. A pinon, 6 ins. diam., bears S 73½° W., 84 lks. dist., marked 1/4 S 13 B.T.
	June 10, 1911 June 28: at 7h. 03m. a.m. l.m.t., I set off 38°44' on the lat. arc; 23°21' N., on the decl. arc; and determine a meridian with the solar at the 1/4 sec. cor. Thence I run North
48.00	South side of canyon, bears NE. and SW. Descend abruptly over ledges.
53.60	Wash in canyon, 20 lks. wide, 200 ft. below top, course NE. The mouth of a canyon from the south, bears E. about 10 chs. Ascend abruptly over series of ledges.

West boundary of T. 24 S., R. 26 E.

Chains	
65.00	Top of canyon, bears N. 10° E. and SW.
	Thence along rocky land sloping E.
80.00	Set an iron post, 3 ft. long, 5/8 in in dia., 24 in. in a mound of stone, 4 ft. base, 2 ft. high for cor. of secs. 7, 12, 13 and 18, marked on brass cap
	T 24 S on N. half,
	R 25 E S 12 in NW.,
	R 26 E S 7 in NE.,
	S 18 in SE. and
	S 13 in SW. quadrant,
	raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
	Pits impracticable
	No trees within limits
	Note: on account of natural obstacles I am unable to set post in the ground.
	Land, mountainous.
	S. 48 chs. rolling mountainous land with a general NE. drain
	N. 32 chs. rough rocky land forming walls of canyon draining NE.
	Soil, rocky, 4th rate
	Sub-soil rocky.
	Timber, pinon and cedar.
	Undergrowth, sage brush
	Some grass for grazing purposes on S. 48 chs.
	Land, mountainous, heavily timbered or covered with dense undergrowth 80.00 chs
	North, bet. secs. 7 and 12.
	Over mountainous land through

Chain

forest of cedar and pinon and
undergrowth of chaparral.
14.00 Top of 50 ft. ledges and south
wall of Dolores river canyon,
bears SE. and W.
Descend abruptly over ledges 50
to 60 ft. high
21.60 Wash in canyon, 20 lks. wide,
500 ft. below top, course NW.
Thence over land facing W.
gradually descend.
40.00 Set an iron post, 3 ft. long, 1 in.
in dia., 26 ins. in the ground for
1/4 sec. cor., marked on brass
cap 1/4 S 12 on W. and S 7 on E.
half, raise a mound of stone, 2
ft. base, 1 1/2 ft. high W. of cor.
Pits impracticable
No trees within limits
Continue to descend.
63.00 Base of mountain 780 ft. below
top bears NE. & SW.
Heavy timber and undergrowth,
thence across cultivated field
belonging to Graham.
70.00 Wagon road, bears NE. & W.
74.45 Left bank of Dolores river, about
200 ch. wide, 2 to 4 ft. deep, rocky
bottom, swift current, muddy water,
course S. 80° W.
Further measurement of line north
impossible on account of high
impassible ledges on north side
of river.
Set an iron post, 3 ft. long, 3 ins. in
dia., 24 ins. in a mound of stone
4 ft. base, 2 ft. high for witness
cor. to secs. 1, 6, 7 and 12, marked
on brass cap
T 24 S on N. half,

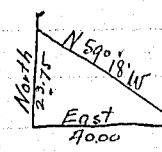
West boundary of T. 24 S., R. 26 E.

chains.

R. 26 E S 6 S 7 on E. half,
R 25 E S 1 S 12 on W. half, with WC to the north; raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.

80.00 Pits impracticable
true point for cor. secs. 1-6-7+12 falls in wall of canon; cannot be established.
Note. On account of natural obstacles I am unable to set post in the ground.
Land, mountainous and level.
Soil, rocky and sandy loam; 4th and 1st rates.
Timber, cedar and pinon on 63 chs.
Undergrowth some chaparral.
S 63 chs. rough mountainous land forming south wall of Dolores river canyon. Soil, rocky on rocky sub soil, 4th rate. Timber cedar and pinon. Undergrowth chaparral.
N. 11.15 chs. level bottom land of canyon. Soil, rich sandy loam with a deep sand sub soil; 1st rate. No timber. No undergrowth.

North, bet. secs. 1 & 6.
To determine distance to the top of high rock wall on north side of the Dolores river canyon which cannot by any means be measured by the chain I proceed as follows: from the witness cor. to secs. 1, 6, 7 and 12, 5.55 chs. S. of true point I set a flag on line north on top of canyon, then measure a base line east 40.00 chs to a point from which the flag bears N. 59° 18' W., from the flag the east end of the base bears S. 59° 18' E., therefore tan. 30° 42' × base or .59376 × 40.00 = 23.75 chs.



Chains	
	23.75 chs. – 5.55 chs. makes.
18.20	from true cor. point of secs. 1, 6, 7 & 12 to top of high wall on North side of canyon, 975 ft. above river, bears NE. & SW
	The true cor. point of secs. 1, 6, 7 and 12 falls on ledges where corner cannot be set.
	June 28: At this station I set off 23° 19½' N. on the decl. arc; and at 12h 03m p.m. l.m.t., observe the sun on the meridian; the resulting lat. is 38° 45'
	Gradually ascend over rolling mountain top through scattering forest of scrub cedar and pinon and undergrowth of short shadscale.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1/4 S1 on W. half and S 6 on E. half, raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
	Pits impracticable
	No trees within limits
40.50	Wash, 20 lks. wide, 2 ft. deep, course SE.
	Begin ascent over small ledges, bears NE. & SW.
80.00	200 ft. above 1/4 sec. cor.
	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in a mound of stone 4 ft. base, 2 ft. high for cor. of Ts. 23 and 24 S., Rs. 25 and 26 E., marked on brass cap
	T 23 S on N. half,
	T 24 S on S. half,
	R 25 E S 36 in NW.,
	R 26 E S 31 in NE.,

West boundary of T. 24S., R. 26E.

Chains

S 6 R 26 E in SE. and
S 1 R 25 E in SW. quadrant,
raise a mound of stone, 2 ft.
base, 1½ ft. high S. of cor.
Pits impracticable
No suitable trees within limits
Note: On account of natural
obstacles I am unable to set
post in the ground.
Land, mountainous with
general S. slope and drain.
S. 18.20 chs. on steep wall of
canyon formed by vertical
sandstone ledges about 300 ft.
high. N 61.80 chs. rolling mount-
ain top. covered with scattering
forest of scrub cedar and pinon.
Soil, rocky; 4th rate.
Sub-soil, rocky.
Undergrowth short shadscale
on N. 61.80 chs.
Land, mountainous, heavily
timbered or covered with dense
undergrowth 80.00 chs

North boundary of T. 24 S., R. 26 E.

Chains	
	Survey commenced June 28, 1911 and executed with a W. & L. E. Gurley solar compass No. 1043.
	For description and test of instrument see book "H" of this survey.
	I know the instrument to be in perfect adjustment by observations made on Polaris June 11, 1911.
	June 28: For solar observation see line bet. secs. 13 & 18, W. bdy. T. 24 S., R. 26 E.
	East, bet. secs. 6 & 31.
	Over mount amous land facing SE., through scattering forest of scrub cedar and pinon and undergrowth of shadscale.
	Gradually descend over series of small ledges towards breaks of Dolores river canyon.
32.00	Top of 120 ft. ledge and edge of canyon, bears N. & SW. heavy timber.
	Descend abruptly 260 ft. to
40.00	On steep east slope of canyon amongst huge boulders
	Set an iron post, 3 ft long, 1 in. in dia., 26 ins. in the ground for 1/4 sec. cor. marked on brass cap 1/4 S 31 on N. half and S 6 on S. half, raise a mound of stone, 2 ft. base, 1 1/2 ft. high N. of cor.
	Pits impracticable.
	Continue steep descent.
47.00	Wash in canyon, 30 lks. wide, 210 ft. below 1/4 sec. cor., course S.
	Thence gradually descend along S. face of high breaks.
80.00	760 ft. below high breaks on right bank of Dolores river, course S. 35° W.

North boundary of T. 24 S., R. 26 E.

chains.

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of secs. 5, 6, 31 and 32 marked on brass cap
T 23 S R 26 E. on N. half,
T 24 S on S. half,
S 31 in NW.,
S 32 in NE.,
S 5 in SE., and
S 6 in SW. quadrant,
raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
Pits impracticable
Land mountainous draining SE. and forming the north wall of the Dolores river Canyon
Soil, rocky; 4th rate
Sub-soil, rocky.
Timber, scrub cedar and pinon on W. 3½ chs.
Undergrowth short shadscale on W. 3½ chs.
Land mountainous heavily timbered or covered with dense undergrowth, 80.00 chs.
June 28, 1911

June 30: At 7h. 03m. a.m. l.m.t., I set off 38° 46' on the lat. arc; 23° 15' N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 5, 6, 31 and 32.
Thence I run
East, bet. secs. 5 and 32.
To determine the distance across Dolores river, I set a point on left bank and erect a flag at the cor. of secs. 5, 6, 31 + 32. From my point on left bank, I measure

North boundary of T. 24 S., R. 26 E.

Chains

a base line S. 4 chs. to a point from which flag bears N 54° 28' W., tan. 54° 28 × base or 1.40 × 4 = 5.60

5.60 to left bank of Dolores river, 2 to 4 ft. deep, rocky bottom, swift current, muddy water, course at bend from N. 80° E to SW.

Thence over rich sandy land at north end of cultivated

5.70 Fence, bears N 80° E & SW.

12.00 E. H. Gallagers house, bears S. 12 chs.

27.00 Leave Fence and field, bears N. & S.

Begin ascent over hilly land facing W.

35.50 Road, bears NE. & SW.

36.00 Spur, 60 ft. high, projects N. Gradually descend.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1/4 S 32 on N. half and S 5 on S. half, raise a mound of stone, 2 ft. base, 1 1/2 ft. high N. of cor.

Pits Impracticable.

41.40 Road, bears N. & S.

Descend abruptly 35 ft to

43.00 Enter cultivated field bears N. & S.

45.00 North side of James Mahaffey's house and leave field, bears N. and S.

Thence over rocky land.

50.00 Wash at mouth of canyon, 50 lks. wide, course N.

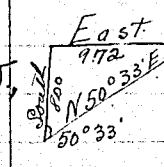
60.80 Fence, bears N. & S.

61.35 Road, bears N. & S. Ford across Dolores river bears N. 4 chs.

62.00 Edge of land subject to overflow bears NW & SE.

North boundary of T. 24 S., R. 26 E.

Chains	
	Point for cor. of secs. 4, 5, 32 and 33 will fall on low island and land subject to overflow, where cor. cannot be perpetuated.
	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for witness cor. to secs. 4, 5, 32 & 33, marked on brass cap
	T 23 S R 26 E S 32 S 33 on N. half,
	T 24 S S 4 S 5 on S half, with WC to the east, raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
	Pits impracticable
64.00	Left bank of Dolores river, course N. 60° W.
	To determine the distance to island I set a flag on right bank of river on island, thence measure a base line south 8 chs. to a point from which flag bears N 50° 33' E., from the flag the south end of base bears S 50° 33' W., tan 50° 33' × base or 1.21526 × 8 = 9.72 chs which added to 64 chs. gives
73.72	To right bank of river and island bears N. 70° W & S 70° E.
	Thence across island
80.00	Point for cor. of secs. 4, 5, 32 & 33 on island subject to overflow.
	No cor. set.
	Land level and hilly.
	Soil, rocky and sandy loam.
	Rich sandy loam soil on line bet. 5.60 and 27 chs. on W ½ mile and bet. 43 and 45 chs on E ½ mile.
	It has for a sub soil a rich sand 1st rate.
	Rocky soil of 4th rate on rest of mile.
	Timber, a few scattering cottonwoods



North boundary of T. 24 S., R. 26 E.

Chains	
	Undergrowth some short shadscale
	East, bet. secs. 4 and 33. from true cor. point of secs. 4, 5, 32 & 33. Over rocky island and land subject to overflow.
4.90	Left bank of Dolores river, course N. 60° W. To determine distance across river I set a flag on right bank & then measure a base line S. 2.50 chs. to a point from which flag bears N. 40° 02' E., from the flag the S. end of base bears S. 40° 02' W., tan. 40° 02' × base or 0.84 × 2.50 = 2.10 chs., which added to 4.90 gives
7.00	chs. to right bank of Dolores river, course N. 60° W. Thence over hilly land sloping west, gradually ascend.
11.40	Wagon road to Gateway Colorado, bears NW. and SE.
24.20	Wash, 50 lks. wide, 10 ft. deep, course SW.
38.45	Intersect Utah - Colorado state boundary line 4.36 chs. N. 1° 01' E of the 121 mile cor. Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for closing cor. of Ts. 23 & 24 S., R. 26 E., marked on brass cap. T 23 S S 33 on NW. quadrant, CC 121 M C on E half. T 24 S S 4 in SW. quadrant and U. R. 26 E on W. half, raise a mound of stone, 2 ft. base 1½ ft. high W. of cor. Pits impracticable Land, hilly with a general SW drain

East 210 140° 02' E 02'

Retracement of 116th mile Utah-Colorado Bdy. line.

chains	
	Soil, rocky, 4th rate. No timber. Undergrowth, some short shadscale. Hilly land 30.45 chs.
	June 22: For solar observation, see line bet. secs. 8 and 9. From the 115th mile cor., on the Utah-Colorado state boundary line, I run N. 0° 10' W., retracing the 116th mile over steep west slope of break of Beaver Canyon; through dense forest of cedar and pinon and undergrowth of chaparral.
76.97	Fall 12 lks. E. of the 116th mile cor., which is a cross on solid sandstone bed rock, and marked and witnessed as described by the Surveyor General. The true bearing of this line is N. 0° 15' W., and the distance is 76.97 chs. Land mountainous with steep W. slope facing Beaver Canyon. Soil, rocky; 4th rate. Sub-soil, rocky. Timber, cedar and pinon. Undergrowth, chaparral. Land mountainous heavily timbered and covered with dense undergrowth 76.97 chs.
	119th mile. From the 118th mile cor. on the Utah-Colorado boundary line which is a cross on solid sandstone bed rock marked and witnessed as described by the Surveyor General. I run N. 0° 07' E., retracing the 119th mile

Utah - Colorado Boundary line.

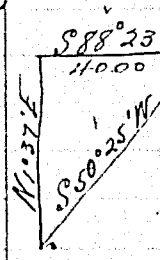
Chains	
	over rough mountainous land facing W., towards Beaver canyon. through dense forest of cedar and pinon and undergrowth of shadscale.
25.00	Top of flat bench, bears NW. + SE. Thence across bench.
33.27	Fall 9 lks. E. of the old 119½ mile cor., which is a sandstone, 15 x 34 x 4 ins., firmly set in a mound of stone, marked 119½ M U on W. face and C on E. face. No accessories to cor. True course = N. 0° 02' W + distance = 33.27 chs
	June 22: At this cor., I set off 23° 27' N., on the decl. arc; and at 12 h. 02 m. p. m. l. m. t., observe the sun on the meridian, the resulting lat. is 38° 44'.
	This point is situated upon a high bench above the breaks of the Dolores river which is about 2000 ft. deep. No cors. on the bdy. line have been set bet. this point and the witness cor. to the 123rd mile cor. which is situated on the north side of canyon. In order that I may be able to close my survey of T. 24 S., R. 16 E. upon the bdy. line. I survey the state bdy. bet. the 119½ mile cor. and the witness cor. to the 123rd mile cor. as follows.
	N. 1° 37' E., from the 119½ mile cor. on random line along the 119th mile counting distances from the 118th mile cor.
80.00	Set temporary 119th mile cor.
160.00	Set temporary 120th mile cor.
169.00	On east side of Dolores point and south edge of canyon over Dolores river, bears NW. + SE. Canyon at this

chains

point is about 1500 ft. deep and cut in solid red stone with vertical walls. Further measurement of line impossible. Being unable to secure a base line to triangulate into canyon, I erect a high signal at this point which can be plainly seen from the bottom.

June 22 - 1911.

June 27: At 7h. 03m. a.m. l.m.t., I set off 38° 46' on the lat. arc; 23° 23' N. on the decl. arc, and determine a meridian with the solar at a point in the Dolores river canyon on right bank of river N. 1° 37' E. of my flag on top of high wall set June 22: In order that I may obtain the distance into canyon, I measure a base line S. 88° 23' E., 40 chs. to a point from which flag bears S 50° 25' W., therefore tan. × base or .875 × 40. gives 35.00 chs. which added to 169.00 chs. makes.

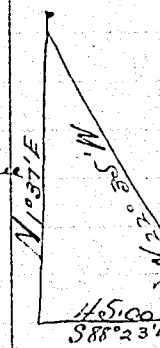


20.4.00 To bottom of canyon on right bank of Dolores river.

240.00 Set temporary 121 mile cor.

320.00 Set temporary 122 mile cor.

336.80 Base of high breaks of Dolores river canyon north side. Further chaining impracticable. To determine distance to top I measure a base line S. 88° 23' E, 45 chs. to a point from which flag which I have already set on top, bears N 22° 35' W., therefore tan × base or 2.225 × 45 = 100.13 chs. which added to 336.80 chains makes.



436.93 Top of breaks and north side of Dolores river canyon bears E. & S.W.

Utah - Colorado Boundary line.

Chains	
43.92	Fall 4.23 chs. E. of the witness cor to the 123rd mile cor. which is a sandstone 15 x 10 x 7 ins above ground firmly set and marked and witnessed as described by the Surveyor General. The falling on this line answers to a correction of 4.23 chs. or 84 lks. per mile which corresponds to 36' of arc., I therefore Begin at the witness cor. above described and run S 1° 01' W, on the 123rd mile.
0.97	North side of Dolores river canyon, 1800 ft. above river, bears E. & SW.
101.10	Base of high breaks of canyon, 1600 ft. below top, bears E. & SW. Gradually descend over rolling land facing S., through scattering forest of scrub cedar and pinon and undergrowth of shadscale.
117.97½	Set a sandstone 36 x 14 x 10 ins., 27 ins. in the ground for the 122nd mile cor., marked 122M. U on W. and C. on E. face, raise a mound of stone 3 ft. base, 2 ft. high W. of cor. Land, mount anous facing south. Soil, rocky; 4th rate. Sub-soil, rocky. Timber, pinon and cedar. Undergrowth, short shadscale. Land, mount anous, heavily timbered or covered with dense undergrowth and exceptionally difficult to survey. 117.92 chs. This line passes over the north wall of the Dolores canyon.

S. 1° 01' W., on 122nd mile.

Utah - Colorado Boundary line

chains	
	Gradually descend over rolling land sloping south, through short undergrowth of shadscale and some scattering cedar and pinon.
65.00	Wash, 30 lks. wide, 10 ft. deep, course SW
	Ascend 70 ft. to
70.00	Spur, projects S. 80° W.
	Gradually descend.
79.94½	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for the 121st mile cor. marked on brass cap 121 M U on W. half and C on E. half, raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Pits impracticable
	Land, rolling, draining SW.
	Soil, gravelly on rocky sub soil, 4th rate
	Timber, some scattering scrub cedar and pinon.
	Undergrowth, short shadscale.
	S 1° 01' W, on 121 mile.
	Gradually descend towards Dolores river over land sloping south.
22.20	Road to Gateway Colorado, bears NW. & SE.
36.00	Right bank of Dolores river, 1 to 4 ft. deep, swift current, rocky bottom, course NW.
37.60	Left bank of river, course NW.
	Ascend NE. face of Dolores point.
71.00	Top of ledge over Dolores river and S. side of canyon bears NW. & SE.
	Gradually ascend.
79.94½	Set a sandstone 32 x 12 x 5 ins., 24 ins. in the ground for 120th mile cor., marked 120 M U. on W. face and C on E. face, raise a mound of stone, 2 ft. base, 1½ ft. high W.

Chains

of cor.
Pits impracticable.
Land mountainous and rolling
N. 36 chs. rolling land with general
S. slope and drain. S. 44 chs. north
slope of south wall of Dolores
canyon.
Soil rocky on rocky sub soil, 4th rate
Undergrowth, some short shadscale.
No timber
Mountainous land 44 chs.
June 27 At this sec. cor. I set off
23° 22' N., on the decl arc., and
and 12h. 03m. p. m. l. m. t., observe
the sun on the meridian, the
resulting lat. is 38° 45'.

S. 1° 01' W., on 120 mile
Gradually ascend over rolling
bench land through scattering
forest of cedar and pinon.
and undergrowth of chaparral.
79.94th Set an iron post, 3 ft. long, 3 ins.
in dia., 24 ins. in the ground
for 119th mile cor., marked on
brass cap 119 M U on W. half,
and C on E. half, raise a
mound of stone, 2 ft. base, 1½ ft.
high W. of cor.
Pits impracticable
Land, rolling mountainous
draining N.
Soil, rocky on rocky sub soil, 4th
rate
Timber scrub cedar and pinon.
Undergrowth, chaparral.
Mountainous land 80.00 chs.

S 1° 01' W., on 119th mile.
Begin ascent of north face of

Chains.

high bench, through forest of cedar and pinon and under-growth of chapparal.

46.84 400 ft. above 119th mile.

The 119th mile cor. heretofore described.

Land mountainous, facing and draining N.

Soil, rocky on rocky sub-soil; 4th rate

Timber; cedar and pinon.

Undergrowth, chapparal.

Land, mountainous heavily timbered or covered with dense undergrowth.

46.73 chs.

June 27, 1911.

For General Description see book I[1] of this survey.

Howard W. Miller
U.S. Transitman.

Boundaries of T. 24 S., R. 26 E.

Lines Designated	True Bearings	Distances Ins.	Latitudes N Ins.	Latitudes S Ins.	Departures E Ins.	Departures W Ins.
S. B'dy	West	196.37				196.37
W. "	North	480.00	480.00			
N. "	East	198.45			198.45	
Lt.-Col. B'dy.						
122 mile	S.1°01'W	4.36		4.36		.08
121 mile	S.1°01'W	79.94½		79.93½		1.42
120 mile	S.1°01'W	79.94½		79.93½		1.42
119 mile	S.1°01'W	46.84		46.83		.83
	S.0°02'E	33.27		33.27	.01	
118 mile	S.0°16'E	80.00		80.00	.23	
117 mile	S.0°10E	80.00		80.00	.23	
116 mile	S.0°15E	75.70		75.70	.33	
Convergency					.25	
			480.00	480.03	199.50	200.12
				480.00		199.50
				.03		.62

Errors =

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Howard W. Miller, Transit man, United States ~~Deputy Surveyor~~, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the S., W., and N. bdrs., T. 24 S., R. 26 E., Retracement of 116th mile, + survey of the 119-123rd mile, Utah-Colorado-bdy. showing the respective capacities in which they acted:

, Chainman.

, Chainman.

, Moundman.

Roscoe Hallett, Moundman.

Offie Schaf, Axman.

Offie Schaf, ~~Axman.~~ Flagman

, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Howard W. Miller, United States ~~Deputy Surveyor~~ Transitman, in surveying all those parts or portions of the S., W. and N. bdrs. T. 24 S., R. 26 E., Retracement of the 116th mile and survey of the 119-123rd mile, Utah-Colorado bdy. line of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

, Chainman.

, Chainman.

, Moundman.

Roscoe Hallett, Moundman.

, Axman.

Offie Schaf, Axman.

Offie Schaf, Flagman.

Subscribed and sworn to before me this 30 day of June, 1901

SEAL

Howard W. Miller
U. S. Transitman

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Howard W. Miller, United States Transitman solemnly swear that, in pursuance of special instructions received from Thomas Hull United States Surveyor General for Utah Supplemental special instructions dated Sept. 30, 1910 and 6 day of August, 1910 and I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of United States, surveyed all those parts or portions of the retracement of 141 to 14[illegible] mile; resurvey and retracement 134 to 139th mile; retracement of 116 and survey of 119, 120, 121, 122 & 123d miles of the Utah-Colorado Boundary and the survey of the south, west and north boundaries of Township No. 24 South, Range No. 26 East of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes in books "H" "I" & "J" as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Howard W. Miller
United States Transitman

Subscribed by said Howard W. Miller, and sworn to before me this 3d day of April, 1910.

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

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, June 25 1910

The foregoing field notes of the survey of the South, West, and North Boundaries of Township No. 24 South, Range No. 26 East, S.L.B.& M., Utah; and retracement of 116th, and survey of the 119, 120, 121, 122 & 123d miles, the Utah-Colorado Boundary line

executed by Howard W. Miller under his special instructions dated August 6, 1910 and Supplemental special instructions dated Sept. 30, 1910, having been critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor General

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

United States Surveyor General

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WSH. KFB VIF EB.

Ex.FAS.

4—670

MSB.

BOOK A-380
Book "Z[1]"

FIELD NOTES

OF THE SURVEY OF THE

S U B D I V I S I O N

O F

TOWNSHIP 24 SOUTH, RANGE 26 EAST,

Of the SALT LAKE BASE AND *Meridian,*

In the State of U T A H

EXECUTED BY

HOWARD E. MILLER

In the capacity of U. S. ~~Surveyor~~ Transitman *, under instructions dated* August 6, *1910,* and Supplemental Special Instructions Dated September 20, 1910 *issued by the United States Surveyor General to govern surveys included in Group No.* 4, *which were approved by the Commissioner of the General Land Office,* Aug. 25 and Oct. 15, *1910,* respectively *pursuant to authority contained in the Act of Congress dated* , *191*

Survey commenced June 11, *1911*

Survey completed July 1, *1911*

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NAMES AND DUTIES OF ASSISTANTS.

Roscoe Hallett, Moundman.

Offie Scharf, Flagman.

Offie Scharf, Axman.

See also certificate of assistants, this book .

EABX A-580

INDEX DIAGRAM.

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

6	5	4	3	2	1
7	8	9	10	11	12
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19	20	21	22	23	24
30	29	28	27	26	25
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BOOK A-380

INDEX DIAGRAM.

Township 24 South, *Range* 26 East.

6 18 17	5 44 41	4 42	3	2	1
7 16 14	8 39 37	9 38	10	11	12
18 13 11	17 35 32	16 34	15	14	13
19 9 8	20 31 27	21 30	22	23	24
30 6 4	29 26 22	28 24	27	26	25
31 2	32 20	33	34	35	36

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 t chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; t 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

..... , Chainm

..... , Chainm

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

SEAL

~~We~~ I, Roscoe Hallett and

do solemnly swear that ~~we~~ I will well and truly perform the duties of mounduman in the establishm of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey the subdivision of T. 24 S., R. 26 E. S.L.B.& M. Utah

Roscoe Hallett , Mounda

, Mounda

Subscribed and sworn to before me this 11
day of June, 1911 190

Howard W. Miller
U.S. Transitman

SEAL

~~We~~ I, Offie Schaf and

do solemnly swear that ~~we~~ I will well and truly perform the duties of axman in the establishment of corn and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey the subdivision of T. 24 S., R. 26 E. S.L.B.& M., Utah.

Offie Schaf , Axm

, Axm

Subscribed and sworn to before me this 11
day of June, 1911

Howard W. Miller
U.S. Transitman

SEAL

I, Offie Schaf 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 subdivision of T. 24 S., R. 26 E. S.L.B.& M. Utah.

Offie Schaf , Flagm

Subscribed and sworn to before me this 11
day of June, 1911

Howard W. Miller
U.S. Transitman

SEAL

6—151

Subdivision of T. 24 S., R. 26 E.

chains

Survey commenced June 11, 1911 and executed with a W. & L. E. Gurley solar compass No. 10443. For description and test of instrument see book "Y" of this survey.

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

At the cor. of secs. 5, 6, 31 and 32 on the south bdy. of the Tp., heretofore described in latitude 38° 40' 47" N., longitude 109° 06' 27" W., I set off 38° 41' on the latitude arc, 23° 08' N., on the decl. arc; and at 4h. 29m. p.m. l.m.t., determine with the solar a meridian, and mark a point thereof, on a stone, set firmly in the ground, 5 chs. N. of the cor.

At 9h. p.m. l.m.t., I observe Polaris in accordance with the Manual of Instructions and mark a point in the line thus determined on a peg driven in the ground 5 chs N. of the cor.

Astron. l.m.t. obsn. June 11, 1911		9h 00m
Equiv. to time of June 10, 1911		33 00
Astron. time U.C. Polaris June 1, 20h 47.8m		
Reduced to June 10	35.3	
Astron. time U.C. Polaris June 10 = 20 125,	20 125	
Hour angle of Polaris, at obsn.		12 47.5
Subtract from		23 56.1

Subdivision of T. 24 S., R. 26 E.

chains

Time argument $11^h\ 08^m.6$
Azimuth of Polaris at Obsn. $0°\ 18'$ E.
June 11, 1911.

June 12: At $7^h\ 30^m$ a.m. l.m.t., I lay off the azimuth of Polaris $0°\ 18'$ W., and find that my solar meridian agrees with the Polaris meridian
At $7^h\ 59^m$ a.m. l.m.t., I set off $38°\ 41'$ on the lat. arc; $23°\ 07\frac{1}{2}'$ N., on the decl. arc; and mark a point in the meridian thus determined by the solar, by a cross on the stone already set, 5 chs. N. of my station; this mark falls 0.3 lks east of the meridian established by the Polaris observation.
The solar apparatus by p.m. observation defines a position for meridians which agrees with the Polaris meridian and by a.m. observation defines a position about 16" east of the Polaris meridian, I therefore conclude that the adjustments of the instrument are satisfactory.
The magnetic bearing of the true meridian at $8^h\ 10^m$ a.m. is N. $15°\ 30'$ W., which gives the magnetic decl., $15°\ 30'$ E.

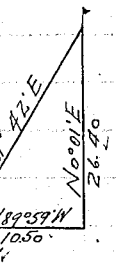
From the cor. of secs. 5, 6, 31 and 32 already described
I run
N. $0°\ 01'$ E., bet. secs. 31 & 32.
over mount amous land draining east; near west edge of Beaver canyon, through forest of cedar and pinon and undergrowth

chains	
	of sage brush.
	Gradually descend.
16.50	Wash in canyon, 35 lks. wide, 75 ft. below sec. cor., course E.
	Ascend 100 ft. to
22.00	Top of ascent and north side of canyon, bears E. and W.
	Thence over land facing E.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1/4 S 31 on W. half and S 32 on E. half, from which
	A pinon, 9 ins. diam., bears S. 44 1/4° E., 117 lks. dist., marked 1/4 S 32 BT
	A pinon, 10 ins. diam., bears N. 87 1/4° W., 253 lks. dist., marked 1/4 S 31 BT.
43.00	Leave cedar and pinon, bears E. & W.
	Thence over open rolling land through dense sage brush.
70.00	Enter dense timber, bears E. and W.
80.00	Set an iron post, 3 ft. long, 1 ins. in dia., 24 ins. in the ground for cor. of secs. 29, 30, 31 and 32 marked on brass cap T 24 S S 30 in NW., R 26 E S 29 in NE., S 32 in SE. and S 31 in SW. quadrant,
	from which
	A cedar, 11 ins. diam., bears N. 18 1/2° E., 15 lks. dist., marked T 24 S R 26 E S 29 BT
	A pinon, 12 ins. diam., bears S. 29 3/4° E. 89 lks. dist., marked T 24 S R 26 E S 32 BT.

Chains	
	A pinon, 10 ins. diam., bears S. 75° W., 34 lks. dist., marked T 24 S R 26 E S 31 BT.
	A pinon, 14 ins. diam., bears N. 80½° W., 42 lks. dist., marked T 24 S R 26 E S 30 BT.
	Land, rolling mountainous draining east, near west side of Beaver canyon.
	Soil, gravelly and sandy; 3rd rate
	Sub-soil, rocky.
	Timber, cedar and pinon.
	Undergrowth, sage brush.
	Some good grass for grazing purposes.
	Land mountainous heavily timbered or covered with dense undergrowth, 80.00 chs.
	West, on random line bet. secs. 30 and 31
40.00	Set temporary ¼ sec. cor.
80.08	Intersect W. bdy. of the tp. 7 lks. S. of the cor. of secs. 25, 30, 31 and 36 heretofore described
	Thence I run
	S. 89° 57' E., on true line bet. secs. 30 and 31.
	Over rough mountainous land facing east, through dense forest of cedar and pinon and under-growth of chaparral.
	Descend abruptly
37.20	Wash in hollow, 20 lks. wide, 480 ft. below sec. cor., course NE.
	Thence over land facing north.
38.75	The point for ¼ sec. cor. will fall in wash in hollow where cor. cannot be perpetuated
	Set an iron post, 3 ft. long; 1 in. in

Chains	
	dia., 26 lks. in the ground for witness cor. to the 1/4 sec. cor., marked on brass cap T. 24 S, R. 26 E S 30 on N. half, S 31 on S. half, with W C 1/4 to the east, from which:
	A pinon, 12 lks. diam., bears N. 40 3/4° E, 91 lks. dist., marked W C 1/4 S 30 B.T.
	A pinon, 8 lks. diam., bears S. 3 1/4° E., 85 lks. dist., marked W C 1/4 S 31 B.T.
39.70	Descend over ledge, 15 ft. high bears N. + S.
40.04	Point for 1/4 sec. cor. falls in wash in hollow, course S. 85° E.
	Thence along N. side of hollow.
42.70	Same wash in hollow, drains N. 70° E.
45.50	Same wash in hollow, drains SE.
47.00	Descend abruptly into canyon over ledges.
55.40	Wash in canyon, 40 lks. wide, 120 ft. below witness cor., course NE.
	Ascend abruptly 125 ft. to
62.00	Top of canyon, bears NE. and SW.
	Thence over rolling land sloping gently to the NE., through dense timber.
80.08	The cor. of secs. 29, 30, 31 and 32.
	Land mountainous and rolling with a general drain to the NE.
	Soil, rocky and gravelly; 4th rate.
	Sub-soil, rocky.
	Timber, cedar and pinon.
	Undergrowth, chaparral.
	Some good grass for grazing purposes.
	W. 62 chs. rough mountainous land on east face of high ridge

Chains	
	East 18 chs. rolling bruch land. Land mountainous heavily timbered or covered with dense undergrowth 80.08 chs. June 12: At this sec. cor. I set off 23° 08' N., on the decl. arc., and at 11h. 59m. a.m. l.m.t., observe the sun on the meridian the resulting lat. is 38° 42'.
	N. 0° 01' E., bet. secs. 29 & 30. Over rolling mountainous land, through dense forest of cedar and pinon and undergrowth of chaparral and sage brush. Gradually descend.
8.00	South side of canyon with vertical walls of sandstone about 150 ft. high, bears E. and W. Canyon about 450 ft. deep. To determine the distance across canyon I set a flag on line on north side of canyon, then measure a base line N. 89° 59' W., 10.50 chs. to a point from which flag bears N 21° 42' E., from the flag the west end of the base bears S 21° 42' W., therefore tan 68° 19' × base or 2.515 × 10.50 = 26.40 chs., which added to 8.00 chs. makes
34.40	To north side of canyon, bears E. and W. Thence gradually ascend over rolling bruch land.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1/4 S. 30 on W. half, and S 29 on E. half, from which A cedar, 10 ins. diam., bears N. 38° E.



chains	
	102 lks. dist., marked 1/4 S 29 BT A cedar, 8 ins. diam., bears S. 40½° W., 60 lks. dist., marked 1/4 S 30 BT
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a mound of stone, 4 ft. base, 2 ft. high for cor. of secs. 19, 20, 29 and 30, marked on brass cap T 24 S S 19 in NW., R 26 E S 20 in NE., S 29 in SE. and S 30 in SW. quadrant, from which A pinon, 11 ins. diam., bears N. 50½° E., 78 lks. dist., marked T 24 S R 26 E S 20 BT A pinon, 7 ins. diam., bears S. 65¾° E., 92 lks. dist., marked T 24 S R 26 E S 29 BT A pinon, 15 ins. diam., bears S. 45½° W., 98 lks. dist., marked T 24 S R 26 E S 30 BT A pinon, 10 ins. diam., bears N. 1° W., 60 lks. dist., marked T 24 S R 26 E S 19 BT Note: on account of natural obstacles I am unable to set post in the ground. Land, rolling and mountainous with general easterly drain Soil rocky and gravelly; 4th rate Sub-soil, sandy and gravelly Timber, cedar and pinon. Undergrowth, chaparral. Mountainous land on S. 34.40 chs. Some good grass for grazing on N. 45.60 chs. Land mountainous, heavily

Chains	
	timbered or covered with dense undergrowth, 80.00 chs. June 12, 1911.
	June 13: At 8h. a.m. l.m.t., I set off 38° 43' on the lat. arc; 23° 11½' N., on the decl. arc, and determine a meridian with the solar at the cor. of secs. 19, 20, 29 and 30 Thence I run N. 89° 57' W., on random line bet. secs. 19 & 30
40.00	Set temporary ¼ sec. cor.
79.98	Intersect West bdy. of the tp. 7 lks. S of the cor. of secs. 19, 24, 25 and 30, heretofore described Thence I run S. 89° 54' E., on true line bet. secs. 19 and 30. Descend abruptly over very steep east face of high ridge, through forest of cedar and pinon, undergrowth of chaparral, and series of small sandstone ledges 10 to 15 ft. high.
18.50	Wash and base of steep descent, course NE. Continue more gradual descent over NE. slope.
39.99	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼ S 19 on N. half and S 30 on S. half, from which A cedar, 14 ins. diam., bears N. 6¾° W., 196 lks. dist., marked ¼ S 19 BT A cedar, 8 ins. diam., bears S. 33¾° E., 135 lks. dist., marked ¼ S 30 BT.

Chains.	
48.30	Wash in canyon, 25 lks. wide 750 ft. below sec. cor., course N. 30° E.
	Thence over rolling brush land draining N. and NE.
67.50	Wash, 16 lks. wide, 8 ft. deep, course N. 35° E.
79.98	The cor. of secs. 19, 20, 29 and 30.
	Land, mountainous and rolling.
	W. 48.30 chs. rough mountainous land on east face of high ridge E. 31.68 chs. rolling brush land.
	Soil, rocky, gravelly and sandy; 4th rate.
	Sub-soil, rocky and gravelly.
	Timber, cedar and pinon.
	Undergrowth, chaparral.
	Land, mountainous heavily timbered or covered with dense undergrowth 79.98 chs.
	N. 0° 01' E., bet. secs. 19 & 20.
	Over rolling brush land draining E., through dense forest of cedar and pinon and undergrowth of sage brush.
2.00	Leave timber, bears E. and W.
28.00	Enter timber, bears N. 80° W. and SE.
32.60	Top of west side of Beaver Canyon bears S. 80° W. and E.
	The 1/4 sec. cor. will fall on North slope of canyon, where corner cannot be set, therefore at this point, set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in a mound of stone, 4 ft. base, 2 ft. high for witness cor to the 1/4 sec. cor., marked on

chains

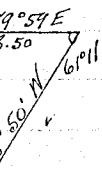
brass cap. T 24 S R 26 E on N. half, S 20 on E. half, S 19 on W. half with W C 1/4 to the N., from which

A cedar, 12 ins. diam., bears S. 35½° E., 38 lks. dist., marked
W C 1/4 S 20 BT.

A pinon, 10 ins. diam., bears N. 51½° W., 23 lks. dist., marked
W C 1/4 S 19 BT.

Note. on account of natural obstacles I am unable to set post in the ground.

To determine distance into canyon I set a flag on line north and being unable to secure a base line to triangulate from this point I erect a flag at the witness cor. From my point in canyon I measure a base line S. 89° 59' E., 8.50 chs., to a point from which flag bears S. 28° 50' W., therefore tan. 61° 11' × base or 1.817 × 8.50 = 15.45 chs. which added to 32.60 chs. makes



48.05 to base of canyon course NE., canyon from SW., 600 ft. below top. Point for 1/4 sec. cor. at 40 chs. falls on inaccessible ground.

Thence over rocky land facing east at base of high rock wall of Beaver Canyon, through scattering scrub cedar and pinon and undergrowth of chaparral.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a mound of stone, 4 ft. base, 2 ft. high for cor. of secs. 17, 18, 19 and 20, marked on brass cap

T 24 S S 18 in NW.,
R 26 E S 17 in NE.,
S 20 in SE. and
S 19 in SW. quadrant,

chains

raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
Pits impracticable.
Trees within limits but none suitable for bearing trees.
Note: On account of natural obstacles I am unable to set post in the ground.
Land, mountainous and rolling
South 32.60 chs. rolling brush land.
North 47.40 chs. mountainous land forming wall of Beaver Canyon.
Soil, rocky and gravelly; 4th rate
Sub-soil, rocky.
Timber, cedar and pinon.
Undergrowth sage brush and chaparral.
Some good grass for grazing on S. 32.60 chs.
Land mountainous heavily timbered or covered with dense undergrowth 80.00 chs.
June 13: At this sec. cor., I set off 23° 12' N., on the decl. arc; and at 12h. m. l.m.t., observe the sun on the meridian, the resulting lat. is 38° 43'

N. 89° 54' W., on random line bet. secs. 18 and 19.
To determine distance to the top of rock wall on west side of Beaver Canyon, which cannot be chained, I set a flag on line on top, then measure a base N. 0° 06' E., 5 chains to a point from which flag bears S. 62° 46' W., from the flag the N. end of the base bears N. 62° 46' E., therefore tan 62° 46' × base or 1.934 × 5 makes

S 62° 46' W
N 89° 54' W
9.67

chains	
9.67	To top of canyon, brars N. & S.
40.00	Set temporary 1/4 sec. cor.
79.92	Intersect W. bdy. of the tp. 14 lks. N. of the cor. of secs. 13, 18, 19 & 24 heretofore described.
	Thence I run East, on true line bet. secs. 18 and 19.
	Over rolling mountainous land draining North, through scattering forest of cedar and pinon and underg rowth of sage brush.
3.00	Wash in hollow, 30 lks. wide, 3 ft. deep, course N.
	Gradually ascend.
22.00	Low ridge brars N. and S.
	Thence over land draining NE. to Beaver canyon.
	Gradually descend
30.70	Wash, 25 lks. wide, 4 ft. deep, course N.
39.96	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1/4 S. 18 on N. half and S 19 on S. half, from which
	A cedar, 16 ins. diam., brars S. 30½° W, 114 lks. dist., marked 1/4 S 19 BT
	A cedar, 18 ins. diam., brars N. 75° W, 96 lks. dist., marked 1/4 S 18 BT
	Enter dense timber
70.25	West side of Beaver canyon and top of ledge, 150 ft. high, brars N. & S.
	Descend abruptly 575 ft. to
79.92	The cor. of secs. 17, 18, 19 and 20
	Land mountainous.
	West 70.25 chs. rolling mountainous

Chains

bench land draining N. and NE.
E. 9.67 steep east slope of Beaver canyon.
Soil, rocky and gravelly; 4th rate.
Sub-soil, gravelly.
Undergrowth, sage brush.
Timber, cedar and pinon.
Some good grass for grazing on W. 70.25 chs.
Land, mountainous heavily timbered or covered with dense undergrowth, 79.92 chs.

June 13, 1911

June 20: For solar observation see line brt. secs. 17 and 20.
N. 0° 01' E., brt secs. 17 and 18.
Over mountainous land, through scattering forest of scrub cedar and pinon and undergrowth of chaparral.
Gradually descend along rocky east slope of Beaver canyon, over series of small gulches draining E.
40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1/4 S 18 on W. half and S 17 on E. half, raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
Pits impracticable
No suitable trees within limits for blazing trees.
80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a mound of stone, 4 ft. base, 2 ft. high for cor. of secs. 7, 8, 17 and 18, marked on brass cap

T 24 S S 7 in NW.,
R 26 E S 8 in NE.,
S 17 in SE. and.

Chains

S 18 in SW. quadrant,
from which
A cottonwood, 12 ins. diam., bears
N. 6 3/4° E., 46 lks. dist., marked
T 24 S., R. 26 E S 8 BT.
A cottonwood, 28 ins. diam., bears
S. 31 1/2° E., 157 lks. dist., marked
T 24 S R 26 E S 17 BT.
No tree in sec. 18.
A cottonwood, 30 ins. diam., bears
N. 58° W., 102 lks. dist., marked
T 24 S R 26 E S 7 BT.
raise a mound of stone, 2 ft. base
1 1/2 ft. high W. of cor.
Land, mountainous on east slope
of Beaver canyon.
Soil, rocky; 4th rate
Timber, scrub cedar and pinon,
and some cottonwood on N. 5 chs.
Undergrowth, chaparral.
Land, mountainous heavily timbered
or covered with dense undergrowth
80.00 chs.
Note: on account of natural obstacles
I am unable to set post in the
ground.

June 20, 1911

June 29: At 7h. 03m. a.m. l.m.t.,
I set off 38° 44' on the lat. arc., 23°
18' N., on the decl. arc., and
determine a meridian with
the solar at the cor. of secs. 7, 8,
17 and 18
Thence I run
West, on random line bet. secs.
7 + 18.
40.00 Set temporary 1/4 sec. cor.
79.90 Intersect W. bdy. of the tp. 10 lks.
S. of the cor. of secs. 7, 12, 13 and

chains	
	18 heretofore described
	Thence I run
	S. 89° 56' E., on true line, bet. secs. 7 & 18.
	over mountainous land
4.00	Begin descent into canyon, bears N. 20° W. and S. 20° W.
12.50	Wash in canyon, 25 lks. wide, 250 ft. below sec. cor., course N.
	Ascend abruptly over ledges.
20.75	Top of east side of canyon, 225 ft. above base bears N. & S.
	Thence over rolling mountain top, through undergrowth of sage brush and some scattering cedar and pinon timber
39.95	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1/4 S 7 on N. half and S 18 on S. half, dig pits, 18 x 18 x 12 ins. E. & W. of post, 3 ft. dist., raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high N. of cor.
65.70	Top of 60 ft. ledge and west side of Beaver canyon, bears N. & S
	Descend abruptly over ledges, 690 ft. to
79.90	The cor. of secs. 7, 8, 17 and 18.
	Land, mountainous draining north, near north end of high bench over Dolores canyon.
	Soil, rocky 4th rate
	Sub-soil, rocky.
	Timber, cedar and pinon on E. 59.15 chs.
	Undergrowth sage brush.
	Land, mountainous heavily timbered or covered with dense

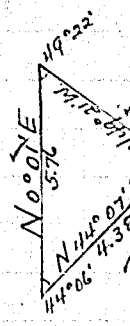
Chains	
	Undergrowth, 79.90 chs.
	N. 0° 01' E., bet. secs. 7 and 8.
	Over mountainous land in bottom of Beaver canyon, through forest of scattering scrub cedar and pinon and some cottonwood.
1.60	Beaver creek, 25 lks. wide, rapid current, 1 to 2 ft. deep, rocky bottom, good water, course N. 20° E., at bend from SE.
9.60	Same creek, course N. 35° W. Leave cottonwood.
	Begin ascent from canyon over rocky land facing West, across numerous gulches and spurs.
40.00	150 ft. above canyon. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in a mound of stone, 4 ft. base, 2 ft. high for 1/4 sec. cor., marked on brass cap 1/4 S 7 on W. half, and S 8 on E. half, raise a mound of stone, 2 ft. base, 1 1/2 ft. high W. of cor. Pits impracticable. Trees within limits in both secs. but none suitable for bearing trees.
	Note. On account of natural obstacles I am unable to set post in ground.
	Begin steep ascent over SW. slope.
75.20	Base of ledge, 70 ft. high, bears NW. & SE.
76.80	Top of ledge and east side of Beaver canyon, bears NW. & SE. Thence over rolling mountain top
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 5, 6, 7 and 8, marked on brass cap.

Chains	
	T 24 S S 6 m NW, R 26 E S 5 m NE, S 8 m SE and S 7 m SW quadrant, raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Pits impracticable. Land mountainous on west slope of Beaver canyon. Soil, rocky; 4th rate. Timber, scattering scrub cedar and pinon and some cottonwood. No undergrowth. Land mountainous or heavily timbered 80.00 chs. June 29: At this sec. cor., I set off 23° 17' N., on the decl. arc., and at 12h. 03m. p.m. l.m.t., observe the sun on the meridian the resulting lat. is 38° 45'
	N. 89° 56' W., on random line bet. secs. 6 & 7.
40.00	Set temporary 1/4 sec. cor.
69.60	Left bank of Dolores river, course S. 70° W.
	Offsett south 5.55 chs. thence West on offsett line 10.40 chs. to
80.00	Intersect W. bdy of the tp. 9 lks. N., of the witness cor. to secs. 1, 6, 7 and 12 heretofore described
	Thence I run East, on offsett line bet. secs. 6 & 7. over level bottom land of Dolores river canyon, across plowed field.
10.40	offsett north 5.55 chs. to true line bet. secs. 6 & 7 on left bank of Dolores river.
11.00	Graham's house bears N. 70 lks.
15.85	Road, bears N. 70° E. and S. 70° W.

Subdivision of T. 24 S., R. 26 E.

Chains	
26.00	Corral, brars N. 50 lks.
	Leave cultivated land, brars N. & S.
27.00	Beaver creek, 30 lks. wide, 1 to 2 ft. deep, rapid current, rocky bottom, good water, course NW.
	Begin ascent over mountainous land facing nearly W.
40.00	160 ft. above creek.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1/4 S 6 on N. half and S 7 on S. half, raise a mound of stone, 2 ft base, 1 1/2 ft. high N. of cor.
	Pits impracticable.
75.00	Top of ledge, 50 ft. high and east side of Beaver canyon, 760 ft. above base, brars NW. & SE.
	Thence over rolling land.
80.00	The cor. of secs. 5, 6, 7 and 8.
	Land, mountainous and level.
	W. 26 chs. level agricultural land. Soil, a rich sandy loam with a deep sand sub-soil, 1st rate
	E. 53 chs. western slope of Beaver canyon, near mouth. Soil; rocky with rocky sub. soil, 4th rate.
	Timber, a few scattering cedar and pinon.
	Undergrowth, some chaparral.
	Land mountainous heavily timbered or covered with undergrowth 53.00 chs.
	N. 0° 01' E., on random line bet. secs. 5 and 6
40.00	Set temporary 1/4 sec. cor.
74.30	Left bank of Dolores river, 2 to 4 ft. deep, swift current, rocky bottom, muddy water, course S. 30° W.

chains	
	To determine distance across river I set a flag on right bank, then measure a base line N. 44° 07' E., 4.38 chs. dist., to a point from which flag bears N. 49° 21' W., from the flag the east end of the base bears S. 49° 21' E., by separate measurement of each angle they are found to be respectively 86° 32', 49° 22' & 44° 06'.
	log. 4.38 chs. = 0.641474
	log sin 86° 32' = 9.999205 − 10
	colog sin 49° 22' = 0.119870
	log 10.760499 − 10 = 5.76
	chs., also 74.30 chs =
80.06	Intersect N. bdy. of the tp. 7 lks. W. of the cor. of secs. 5, 6, 31 and 32 heretofore described.
	Thence I run S. 0° 04' W., on true line bet. secs. 5 and 6.
	Across channel of Dolores River.
5.76	Left bank of river, course S. 30° W.
	Thence over level sandy land.
6.00	Wire fence bears NE. and SW.
	Enter E. G. Gallagers field.
19.50	Wire fence and leave field, bears NW. & SE. Thence over pasture land.
20.90	Wagon road, near SW. cor. of Gallager's field, bears E. & W.
	Gradually ascend.
30.00	Base of high mountain and south wall of Dolores river canyon, bears E. & W.
	Ascend abruptly over N. slope.
40.06	300 ft. above base,
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap. 1/4 S 6 on W. half and S 5 on E. half, raise a mound of stone



Chains	
	2 ft. base, 1½ ft. high W. of cor. Pits impracticable. Continue steep ascent
52.00	Begin ascent over ledges, 20 to 25 ft. high
58.80	Top of ledges and canyon, 800 ft. above base, bears E. & W. Thence over rolling mountain top, through scattering forest of cedar and pinon.
80.06	The cor. of secs. 5, 6, 7 and 8. Land, mountainous and level. N. 30 chs. level land in bottom of Dolores canyon. Soil, sandy loam; 1st rate, with a deep sand sub-soil. Some cottonwoods along river bank and sage brush undergrowth on S. 10 chs. S. 50.06 chs. rough mountainous land, on which the N. 28.80 chs. forms the S. wall of the Dolores canyon. S. 21.26 chs. rolling mountain top covered with scattering forest of scrub cedar and pinon. Soil, rocky; 4th rate. Sub-soil, rocky. No undergrowth. Land, mountainous or heavily timbered 50.06 chs. June 29, 1911.
	June 16: at 8h 00m a.m. l.m.t., I set off 38° 41' on the lat. arc; 23° 21' N., on the decl. arc; and determine a meridian with the solar at the true corner point of secs. 4, 5, 32 and 33 on the south boundary of the township heretofore described.

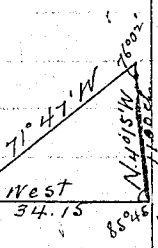
Chains	
	Thence I run
	N 0°01' E., bet. secs. 32 and 33.
	Over rough mountainous land facing West, through dense forest of cedar and pinon and under-growth of chaparral across numerous ridges and ravines draining West to Beaver canyon.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1/4 S 32 on W. half and S 33 on E. half, raise a mound of stone, 2 ft. base, 1 1/2 ft. high W. of cor.
	Pits impracticable
	Trees within limits in both secs. but none suitable for bearing trees.
	Continue along rocky west slope to Beaver canyon.
64.00	Wash in hollow, 50 lks. wide, course W.
	Ascend 175 ft. to.
80.00	Spur, projects NW.
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a mound of stone 4 ft. base, 2 ft. high for cor. of secs. 28, 29, 32 and 33 marked on brass cap.
	T 24 S S 29 in NW,
	R 26 E S 28 in NE.,
	S 33 in SE. and
	S 32 in SW. quadrant,
	from which
	A pinon, 12 ins. diam., bears N. 48 1/2° E., 218 lks. dist., marked
	T 24 S R 26 E S 28 BT
	A pinon, 10 ins. diam., bears S. 75 1/2° E., 44 lks. dist., marked
	T 24 S R 26 E S 33 BT
	A pinon, 9 ins. diam., bears S. 54 1/2° W.

Chains

160 lks. dist., marked
T 24 S R 26 E S 32 BT
A pinon, 11 ins. diam., bears N. 67¼° W.,
86 lks. dist., marked
T 24 S R 26 E S 29 BT
Note: On account of natural obstacles I am unable to set post in the ground.
Land mountainous draining west into Beaver canyon.
Soil, rocky; 4th rate.
Sub-soil, rocky.
Timber, cedar and pinon
Undergrowth, chaparral.
Land mountainous heavily timbered or covered with dense undergrowth 80.00 chs.
June 16: At this sec. cor. I set off 23° 20½' N., on the decl. arc; and at 12h. m. l.m.t.; observe the sun on the meridian; the resulting lat. is 38° 41'.

West, on random line bet. secs. 29 and 32.

21.40 East side of Beaver canyon, across which I cannot chain. To determine the distance across canyon I set a flag on west side, then measure a base line N. 4° 15' W., 11.00 chs. dist., to a point from which flag bears S. 71° 47' W., from the flag the north end of the base bears N. 71° 47' E., by separate measurement of each angle they are found to be respectively, 85° 45', 76° 02', 18° 13'. I compute distance across canyon as follows;



Chains	
	log 11.00 chs. = 1.041393.
	log. sin. 76° 02' = 9.986997-10
	cologsin 18° 13' = 0.504995
	log 1.533355 =
	34.15 chs., also 21.40 chs., =
55.55	To west side of canyon.
	Note: on account of natural objects which obstruct my sight across canyon I am unable to secure a longer base line.
	Point for temporary 1/4 sec. cor. falls in line of triangulation
	no cor. set.
80.05	Intersect N. & S. line 10 lks. S. of the cor. of secs. 29, 30, 31 and 32.
	Thence I run
	S. 89° 56' E., on true line bet. secs. 29 and 32.
	Over rolling mountain top, draining NE., through dense forest of cedar and pinon, and under-growth of sage brush.
9.00	Leave dense timber, brass N. & S.
	Thence through scattering timber
24.50	West side of beaver canyon, and vertical sandstone ledge, 250 ft. high, brass N. & S. Canyon about 1000 ft. deep. Point for 1/4 sec. cor. will fall in canyon where cor. cannot be set, therefore perpetuate cor at this point.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in a mound of stone 4 ft. base, 2 ft. high for witness cor. to the 1/4 sec. cor., marked on brass cap T 24 S R 26 E S 29 on N. half, S 32 on S. half, with W. C 1/4 to the east, from which

Chains

A pinon, 10 in. diam., bears N. 39¾° W., 12 lks. dist., marked
W C 1/4 S 29 BT
A pinon, 9 in. diam., bears S. 10¼° W., 179 lks. dist., marked
W C 1/4 S 32 BT.

55.65 Top of 200 ft. ledge and east side of Beaver canyon, bears N. & S. Thence ascend through dense timber over land facing nearly W.

75.00 Top of spur, 100 ft. above top of canyon, projects NW. Thence along gentle N. slope

80.05 The cor. of secs. 28, 29, 32 and 33.

Land mountainous, draining NE. to Beaver Canyon on W. 24.50 chs. and W. on E. 21.40 chs.
Soil, rocky; 4th rate
Sub-soil, rocky.
Timber, cedar and pinon.
Undergrowth, sage brush.
Land mountainous, heavily timbered or covered with dense undergrowth 80.05 chs.

June 16, 1911

June 17: Continuous storm of rain prevents field work.
June 18: At 8h. 01m. a.m. l.m.t., I set off 38° 42' on the lat. arc, 23° 24' N., on the decl. arc, and determine a meridian with the solar at the cor. of secs. 28, 29, 32 and 33.
Thence I run
East, on true line bet. secs. 28 and 33, knowing that closing cors are necessary upon the Utah=

chains	
	Colorado State boundary line. Over mountainous land facing West towards Beaver canyon, through dense forest of cedar and pinon and undergrowth of chaparral.
	Ascend abruptly over series of small ledges and huge boulders.
36.04	650 ft. above sec. cor.
	Intersect Utah-Colorado bdy. line. 4.30 chs. N. 0° 10' W., of the 116th mile cor. heretofore described. Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a mound of stone 4 ft. base, 2 ft. high for closing cor. to secs. 28 and 33. marked on brass cap.
	C C C 116 M on E. half, U R 26 E on W. half, T 24 S on N. half, S 33 in SW. and S 28 in NW. quadrant,
	raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Pits impracticable
	Trees within limits in both secs. but none suitable for bearing trees.
	Note: On account of natural obstacles I am unable to set post in the ground
	Land, mountainous facing and draining W.
	Soil, rocky; 4th rate
	Sub-soil, rocky.
	Timber, scrub cedar and pinon
	Undergrowth, chaparral.
	Land mountainous heavily timbered or covered with dense undergrowth 36.04 chs.

Chains

N 0° 01' E., bet. secs. 28 and 29.
over mount-anous land
draining W., through dense forest
of cedar and pinon and under-
growth of chaparral.
Descend from spur over land
facing N., 150 ft. to
17.85 Wash in canyon, 30 lks. wide,
course W.
25.40 Wash, 20 lks. wide, 5 ft. deep,
course W.
39.80 Wash, 15 lks. wide, 10 ft. deep,
course W.
40.00 Set an iron post, 3 ft. long, 1 in.
in dia., 26 ins. in the ground for
1/4 sec. cor., marked on brass cap,
1/4 S 29 on W. half and S 28 on E.
half, from which
A cedar, 12 ins. diam., bears N. 85° E.,
11 lks. dist., marked
1/4 S 28 BT
A cedar, 24 ins. diam, bears S. 74° W.,
33 lks. dist., marked
1/4 S 29 BT
June 18. The sky is overcast at
noon, observations for lat., are
impossible
51.80 Wash, 50 lks. wide, 10 ft. deep,
course W.
80.00 Set an iron post, 3 ft. long, 2 ins.
in dia., 24 ins. in a mound of
stone 4 ft. base, 2 ft. high for
cor. of secs. 20, 21, 28 and 29,
marked on brass cap.
T 24 S. S 20 in NW.,
R 26 E S 21 in NE.,
S 28 in SE. and
S 29 in SW. quadrant,
from which

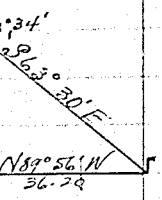
Chains

A pinon, 11 ins. diam. bears N. 64° E., 56 lks. dist., marked
T 24 S R 26 E S 21 BT
A pinon, 8 ins. diam., bears S. 59¾° E., 68 lks. dist., marked
T 24 S R 26 E S 28 BT
A cedar, 12 ins. diam., bears S. 79° W., 76 lks. dist., marked
T 24 S R 26 E S 29 BT
A pinon, 9 ins. diam., bears N. 14½° W., 70 lks. dist., marked
T 24 S R 26 E S 20 BT.
Land, mountainous draining West.
Soil, rocky; 4th rate.
Sub-soil, rocky.
Timber, cedar and pinon.
Undergrowth chaparral.
Land mountainous heavily timbered or covered with dense undergrowth, 8.00 chs.
Note: On account of natural obstacles I am unable to set post in the ground.
At 2 P.M. continuous storm of rain prevents field work.
June 18-1911

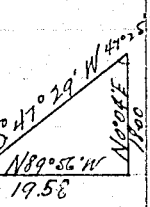
June 19: At 8h. 31m. a.m. l.m.t., I set off 38° 42' on the lat. arc., 23° 26' N., on the decl. arc: and determine a meridian with the solar at the cor. of secs. 20, 21, 28 and 29
Thence I run
N. 89° 56' W., on random line bet. secs. 20 & 29
12.40 East side of Beaver canyon and high ledges, down which I cannot chain. To determine the distance into canyon and also to the

Chains

west side, I set a flag on line at base of canyon and also one on top of west side of canyon. Being unable to secure the proper base line to triangulate from this point I erect a signal which can be seen from base of canyon. From my flag in bottom of canyon I measure a base line N. 0° 04' E. 18 chs., to a point from which flag on top on East side bears S. 63° 30' E., therefore tan × base or 2.011 × 18 = 36.20 chs. which added to 12.40 chs makes.



48.60 Base of canyon.
I now measure east 8.60 chs to
40.00 Set temporary 1/4 sec. cor
From the north end of my base line already measured, the flag on top of W. side of canyon bears S. 47° 29' W., from the flag the north end of the base bears N. 47° 29' E.. tan 47° 25' × base or 1.088 × 18 = 19.58 chs., which added to 48.60 chs. makes



68.18 To top of high ledges & west side of Beaver canyon.
80.00 Intersect N. & S. line 9 lks. N. of the cor. of secs. 19, 20, 29 and 30
Thence I run
East, on true line, bet. secs. 20 and 29.
Over rolling mount'n top, draining NE., through dense forest of cedar and pinon and undergrowth of sage brush.
Gradually descend.
11.82 Top of 150 ft. ledge and west side of Beaver canyon, bears N. & S. Canyon at this point about 950 ft. deep and cut in solid sandstone

Subdivision of T. 24 S., R. 26 E.

Chains.	
31.40	Base of steep descent near bottom of canyon and point of triangulation.
	Continue to descend.
33.20	Beaver Creek in canyon, 25 lks. wide, 1 to 2 ft. deep, rapid current, rocky bottom, clear water course N.
	Ascend abruptly.
40.00	125 ft. above creek.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1/4 S 20 on N. half and S 29 on S. half, raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor.
	Pits impracticable
	Trees within limits in both secs. but none suitable for bearing trees
	Further measurement of line cast by chaining impracticable on account of exceptionally steep slope of canyon.
67.60	Top of east side of canyon and point of triangulation bears N. and S.
	Gradually ascend through dense timber
80.00	The cor. of secs. 20, 21, 28 and 29.
	Land mountainous draining N.,
	Soil, rocky, 4th rate.
	Sub-soil, rocky
	Timber, scrub cedar and pinon
	Undergrowth, chaparral.
	Land mountainous heavily timbered and covered with dense undergrowth, 80.00 chs.

Subdivision of T. 24 S., R. 26 E.

Chains	
	East, on true line bet. secs. 21 and 28.
	over rough mountainous land facing W., through dense forest of cedar and pinon and under-growth of chaparral.
	Ascend abruptly over series of small ledges and huge boulders.
35.89	500 ft. above sec. cor.
	Intersect Utah-Colorado state bdy. line 4.30 chs. N. 0°10' W., of the 117th mile cor., which is a sandstone boulder, 3 x 2 x 1 ft., marked and witnessed as described by the Surveyor General.
	Point for closing cor. of secs. 21 and 28 falls on sandstone boulder 7 x 5 x 4 ft., mark + for exact cor. point with CC U to the W. and C. to the east, from which
	A cedar, 16 ins. diam., bears S. 66° W., 31 lks. dist., marked T 24 S R 26 E S 28 BT.
	A cedar, 28 ins. diam., bears N. 41° W., 115 lks. dist., marked T 24 S R 26 E S 21 BT.
	Note. No iron post set for this closing cor.
	Land mountainous, facing and draining W.
	Soil, rocky; 4th rate
	Sub-soil, rocky.
	Timber, cedar and pinon.
	Undergrowth, chaparral.
	Land mountainous heavily timbered and covered with dense undergrowth, 35.89 chs.
	June 19: At this cor. I set off 23° 26' N., on the decl. arc, and at 12h 01m p.m. l.m.t., observe

Chains	
	the sun on the meridian, the resulting lat. is 38° 42'
	N. 0° 01' E., bet. secs. 20 and 21. over mountainous land facing west, through dense forest of cedar and pinon and undergrowth of chaparral.
4.00	Wash, 50 lks. wide, 10 ft. deep, course W.
37.00	Wash, 50 lks. wide, 5 ft. deep, course W.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1/4 S 20 on W. half and S 21 on E. half, from which A cedar, 24 ins. diam., bears N. 57° E., 99 lks. dist., marked 1/4 S 21 BT A cedar, 16 ins. diam., bears S. 50 1/4° W., 24 lks. dist., marked 1/4 S 20 BT.
48.10	Wash, 25 lks. wide, 5 ft. deep, course W.
57.50	Wash, 20 lks. wide, 3 ft. deep, course W.
75.40	Wash, 40 lks. wide, 5 ft. deep, course W.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 16, 17, 20 and 21, marked on brass cap T 24 S S 17 in NW., R 26 E S 16 in NE., S 21 in SE. and S 20 in SW. quadrant, from which A pinon, 16 ins. diam., bears N. 24 3/4° E., 223 lks. dist., marked

Chains

T 24 S R 26 E S 16 BT
A pinon, 8 ins. diam., bears S. 43° E., 106 lks. dist., marked
T 24 S R 26 E S 21 BT
A pinon, 10 ins. diam., bears S. 48¾° W., 188 lks. dist., marked
T 24 S R 26 E S 20 BT
A pinon, 10 ins. diam., bears N. 38¼° W., 138 lks. dist., marked
T 24 S R 26 E S 17 BT.
Land mountainous facing and draining W.
Soil, rocky; 4th rate
Sub-soil, rocky.
Timber, cedar and pinon.
Undergrowth, chaparral.
Land mountainous, heavily timbered or covered with dense undergrowth 80.00 chs.

June 19, 1911

June 20: At 9h. 01m. a. m. l. m. t., I set off 38° 43' on the lat. arc., 23° 27' N., on the decl. arc., and determine a meridian with the solar at the cor. of secs. 16, 17, 20 and 21.
Thence I run
West on random line bet. secs. 17 and 20.

35.70 Top of ledge 125 ft. high and east side of Beaver canyon. Further measurement of line by chaining impracticable. Set temporary witness cor to the 1/4 sec. cor.
To determine distance into canyon I set a flag on line in bottom, Being unable to secure a proper base line at this point I erect a signal which can be seen from the bottom of canyon. From my flag

S. 54° 18' E.
West
38.70

chains	
	in canyon I measure a base line N. 28 chs. to a point from which the signal on top of canyon bears S. 54° 18' E., tan. 54° 18' x base or 1.391 x 28 = 38.95 chs. which added to 35.70 chs makes
74.65	to bottom of canyon.
80.12	Intersect N. & S. line 23 lks. S. of the cor. of secs. 17, 18, 19 & 20
	Thence I run:
	S. 89° 50' E., on true line bet. secs. 17 & 20
	over mountainous land facing east, through forest of scrub cedar and pinon and undergrowth of chaparral.
	Descend abruptly 140 ft. to
5.00	Beaver creek, 35 lks wide, 1 ft. deep, rapid current, rocky bottom, clear water course N.
5.47	Point of triangulation and steep east slope of canyon.
40.06	Point for 1/4 sec. cor. falls on steep slope of canyon cannot be established.
44.42	top of east side of canyon, 950 ft. above bottom, bears N. & S. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in a mound of stone 4 ft. base 2 ft. high for witness cor. to the 1/4 sec. cor., marked on brass cap T 24 S R 26 E S 17 on N. half, S 20 on S. half, with W C 1/4 to the west, from which
	a pinon, 6 ins. diam., bears N. 33 1/2° E., 10 lks. dist., marked W C 1/4 S 17 BT
	a pinon, 8 ins. diam., bears S. 14 1/2° W., 90 lks. dist., marked W C 1/4 S 20 BT
	Note: on account of natural obstacles I am unable to set post in the ground.

thence

Thence gradually ascend over land facing West, through dense timber

80.12 The cor. of secs. 16, 17, 20 and 21.
Land, mountainous, draining N. on W. 44.42 chs. and W. to canyon on E. 35.70 chs.
Soil, rocky; 4th rate.
Sub-soil, rocky;
Timber, cedar and pinon,
Underg rowth, chaparral.
Land mountainous heavily timbered and covered with dense under-growth 80.12 chs.
June 20: At this sec. cor., I set off 23° 27' N., on the decl. arc, and at 12h. 01m. p.m. l.m.t., observe the sun on the meridian, the resulting lat. is 38° 43'

June 21: At 8h. 01m. a.m. l.m.t., I set off 38° 43' on the lat. arc, 23° 28' N., on the decl. arc, and determine a meridian with the solar at the cor. of secs. 16, 17, 20 and 21
Thence I run
East, on true line bet. secs. 16 & 21 over mountainous land facing west, through dense forest of cedar and pinon and underg rowth of chaparral
Ascend abruptly, 450 ft. over series of small ledges and huge boulders.
35.49 Intersect Utah-Colorado state bdy. line 1.29 chs. N 0° 02' W., at the 118th mile cor., heretofore described
Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 16 and 21, marked on brass cap

Subdivision of T. 24 S., R. 26 E.

chains	
	T. 24 S. on N. half, C. C. C. 118 M. on E. half, U R 26 E on W. half, S 21 in SW. and S 16 in NW. quadrant, raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Pits impracticable Trees within limits in both secs. but none suitable for bearing trees. Land mountainous facing and<br draining W. Soil, rocky; 4th rate Sub-soil, rocky. Timber, cedar and pinon. Undergrowth, chaparral, Land mountainous, heavily<br timbered or covered with dense undergrowth, 35.49 chs.
	N. 0° 01' E., bet. secs. 16 & 17. over mountainous land facing West, through dense forest of cedar and pinon and undergrowth of sage brush
14.00	Wash, 25 lks. wide, 4 ft. deep, course W.
23.75	Wash, 20 lks. wide, 2 ft. deep, course W.
30.00	Wash, 30 lks. wide, 10 ft. deep, course W.
	Leave dense timber, enter rolling brush land.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1/4 S 17 on W. half and S 16 on E. half, from which A cedar, 28 ins. diam., bears N. 36½ E., 23 lks. dist., marked

chains

Thence gradually ascend over land facing West, through dense timber

80.12 The cor. of secs. 16, 17, 20 and 21.
Land, mountainous, draining N. on W. 44.42 chs. and W. to canyon on E. 35.70 chs.
Soil, rocky; 4th rate.
Sub-soil, rocky;
Timber, cedar and pinon,
Undergrowth, chaparral.
Land mountainous heavily timbered and covered with dense under-growth 80.12 chs.
June 20: At this sec. cor., I set off 23° 27' N., on the decl. arc, and at 12h. 01m. p.m. l.m.t., observe the sun on the meridian, the resulting lat. is 38° 43'

June 21: At 8h. 01m. a.m. l.m.t, I set off 38° 43' on the lat. arc, 23° 28' N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 16, 17, 20 and 21
Thence I run
East, on true line bet. secs. 16 & 21 over mountainous land facing west, through dense forest of cedar and pinon and undergrowth of chaparral.
Ascend abruptly, 450 ft. over series of small ledges and huge boulders.

35.49 Intersect Utah-Colorado state bdy. line 4.29 chs. N. 0° 02' W., of the 118th mile cor., heretofore described
Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 16 and 21, marked on brass cap

Chains	
	lat. is 38°44'
	N. 89° 50' W., on random line bet. secs. 8 & 17.
40.00	Set temporary 1/4 sec. cor.
80.00	Intersect N. & S. line 26 lks. N. of the cor. of secs. 7, 8, 17 and 18.
	Thence I run
	N. 89° 59' E., on true line bet. secs 8 & 17.
	Over mount amois land in bottom of Beaver Canyon, through forest of scrub cedar and pinon and some cottonwoods and undergrowth of chaparral.
2.75	Beaver creek, 25 lks. wide, 1 to 2 ft. deep, rapid current, rocky bottom, good water, course NW. Leave cottonwood timber.
	Begin ascent of east side of Beaver canyon over rocky land facing W.
32.50	Top of ledge, 75 ft. high and east side of canyon, 900 ft. above bottom, brars N. & S.
	Thence ascend over rolling mountain top, through scattering timber
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1/4 S 8 on N. half and S 17 on S. half, from which
	A cedar, 8 ins. diam., brars N. 3 1/4° E., 72 lks. dist., marked 1/4 S 8 BT
	A cedar, 10 ins. diam., brars S. 29 1/2° E., 10 lks. dist., marked 1/4 S 17 BT.
	Continue gradual ascent.
80.00	The cor. of secs. 8, 9, 16 and 17.

chains	
	Land rolling and mountainous. W 32.50 chs. rough mountainous land, forming east wall of Beaver canyon. E 47.50 chs. rolling mountain top draining W. to canyon. Soil, rocky and gravelly; 4th rate. Sub-soil, sandy and rocky. Timber, cedar and pinon. Undergrowth, chaparral. Some grass for grazing purposes on E. 47.50 chs. Land mountainous heavily timbered or covered with dense undergrowth, 80.00 chs. June 21-1911
	June 27: East, on true line bet. secs. 9 & 16. over rolling mountain top, through scattering forest of cedar and pinon and undergrowth of sage brush. Gradually ascend.
3.00	Low ridge, bears N. & S. Gradually descend
15.00	Wash in hollow near head of canyon, 25 lks. wide, course N. Gradually ascend.
36.12	Intersect Utah, Colorado State bdy. line, 4.42 chs. N. 1° 01' E., of the 119th mile cor. heretofore described. Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 9 and 16, marked on brass cap. T. 24 S on N. half, C C C 119 M on E. half U. R 26 E on W. half, S 16 in SW. and

chains	
	S. 9 in NW. quadrant, from which
	A pinon, 13 ins. diam., bears S. 1/2° W., 54 lks. dist., marked T 24 S R 26 E S 16 BT
	A pinon, 15 ins. diam., bears N 43° W., 80 lks. dist., marked T 24 S R 26 E S 9 BT.
	Land rolling with a general drain to the N.
	Soil, rocky and gravelly; 4th rate.
	Sub-soil, rocky.
	Timber, scrub cedar and pinon.
	Undergrowth, sage brush.
	Timbered land 36.12 chs.
	June 27, 1911
	June 22: At 8h. 02m. a.m. l.m.t., I set off 38°44' on the lat. arc; 23° 28' N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 8, 9, 16 and 17.
	Thence I run
	N. 0° 01' E., bet. secs. 8 and 9.
	Over rolling mountainous land through scattering forest of cedar and pinon and undergrowth of short sage brush.
	Gradually ascend.
10.00	Top of low ridge, bears NW. and S. 20° E.
	Gradually descend over land sloping nearly east.
39.80	Top of 40 ft. ledge and S. side of canyon, bears NW. and E.
	Point for 1/4 sec. cor. will fall on ledge where cor. cannot be set.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in a mound of stone

Subdivision of T. 24 S., R. 26 E.

Chains	
	4 ft. base, 2 ft. high for witness cor. to the 1/4 sec. cor., marked on brass cap, T 24 S R 26 E on N. half, S 9 on E. half, S 8 on W. half, with W C 1/4 to the east, from which
	A pinon, 7 ins. diam., bears N. 83½° E., 22 lks. dist., marked W C 1/4 S 9 BT
	A pinon, 10 ins. diam., bears N. 76½° W., 42 lks. dist., marked W C 1/4 S 8 BT.
	Note: on account of natural obstacles I am unable to set post in the ground.
	June 22, 1911
	June 30: For solar observation see line bet. secs. 5 & 32, N. bdy of this tp.
	Descend abruptly into canyon.
40.00	Point for 1/4 sec. cor. falls on ledge where cor. cannot be set.
42.00	Base of canyon and wash, 15 lks. wide, 90 ft. below top, course E. Ascend abruptly.
44.20	North side of canyon, bears E. and SW.
	Thence across east point of spur.
45.55	Top of 90 ft. ledge and south side of Dolores river canyon, bears NW. and SE.
	Descend abruptly over ledges and boulders 630 ft. to
66.20	Wash in canyon, 30 lks. wide, course N. 20° W.
	Thence over rocky land facing nearly W.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a mound of stone, 4 ft. base, 2 ft. high for cor.

Subdivision of T. 24 S., R. 26 E.

Chains.	
	of secs. 4, 5, 8 and 9, marked on brass cap T 24 S S 5 m NW., R 26 E S 4 m NE., S 9 m SE. and S 8 m SW. quadrant, raisi a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Pits impracticable Trees within limits but too scrubby for bearing trees. Note: on account of natural obstacles I am unable to set post in the ground. Land mountainous draining north, and forming wall of canyon. Soil, rocky; 4th rate. Sub-soil, rocky. Timber, cedar and pinon. Undergrowth, sage brush. Land mountainous heavily timbered or covered with dense undergrowth 80.00 chs.
	S. 89° 59' W., on random line bet. secs. 5 and 8.
40.00	Set temporary ¼ sec. cor.
80.10	Intersect N. & S. line 3 lks. N. of the cor. of secs. 5, 6, 7 and 8. Thence I run N. 89° 58' E., on true line bet. secs. 5 and 8. Over rolling mountain top, through scattering forest of scrub cedar and pinon and undergrowth of sage brush and chaparral.
33.75	Top of 100 ft. ledge and south side of Dolores canyon, bears NW. & SE.

Subdivision of T. 24 S., R. 26 E.

Chains.	
	Descend abruptly over ledges.
40.05	Point for 1/4 sec. cor. falls on ledge where cor. cannot be set.
46.80	Base of ledges brass N. 60° W. + S 60° E. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for witness cor. to the 1/4 sec. cor., marked on brass cap T. 24 S R. 26 E. S 5 on N. half, S 8 on S. half with W C 1/4 to the W., raise a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor. Pits impracticable. Trees within limits in both secs. but none suitable for bearing trees. Continue steep descent.
70.25	Wash in canyon, 900 ft. below top, course N. 15° W. Ascend 100 ft. over land facing W. to
80.10	The cor. of secs. 4, 5, 8 and 9. Land, mount amous at north end of breaks of Dolores canyon and also forming south wall of canyon. Soil, rocky; 4th rate. Sub-soil, rocky. Timber, cedar and pinon. Undergrowth, sage brush and some chaparral. Land mount amous, heavily timbered and covered with dense undergrowth, 80.10 chs. June 30, 1911

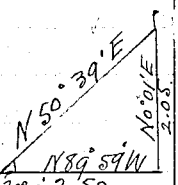
July 1: At 7h. 03m. a.m. l.m.t., I set off 38° 45' on the lat. arc, 23° 11' N., on the decl. arc, and determine a meridian with the solar at the cor. of secs. 4, 5, 8 and 9

Subdivision of T. 24 S., R. 26 E.

chains	
	Thence 9 run East, on true line bet. secs. 4 and 9. Over mountainous land, facing west, through scattering cedar and pinon and under-growth of chaparral. Ascend abruptly
22.00	Begin ascent over ledges. rote 70 ft. high.
29.60	Top of 70 ft. ledge and top of canyon wall 7.40 ft. above sec. cor., bears N. and S. Thence over rolling land near the north end of Dolores point.
37.23	Intersect Utah-Colorado State bdy. line 4.49 chs. N. 1° 01' E., of the 120th mile cor., heretofore described. Set an iron post 3' ft. long, 2" ins. in dia., 24" ins. in the ground for closing cor. of secs. 4 and 9 marked on brass cap T 24 S on N. half, C C C 120 M on E. half, U R 26 E on W. half, S 9 in SW. and S 4 in NW. quadrant; raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Pits impracticable. Trees within limits in both secs. but none suitable for bearing trees. Land, mountainous. W. 29.60 chs. western slope of canyon and Dolores point. E. 7.63 chs. rolling land on Dolores point. Soil, rocky; 4th rate. Sub-soil, rocky.

Subdivision of T. 24 S., R. 26 E.

chains	
	Timber, scrub cedar and pinon. Undergrowth, chaparral. Land mountainous heavily timbered or covered with dense undergrowth 37.23 chs.
	N. 0° 01' E., on random line bet. secs. 4 and 5.
40.00	Set temporary 1/4 sec. cor.
75.40	Left. bank of Dolores river, course N. 76° W.
	To determine distance across river I set a flag on right bank, then measure a base line N. 89° 59' W., 2.50 chs. to a point from which flag bears N 50° 39 E., from the flag the west end of the base, bears S 50° 39 W., therefore tan 39° 22 × base or 0.82 × 2.50 = 2.05 chs., which added to 75.40 makes.
77.45	Left. bank of Dolores river course N. 76° W.
80.03	Intersect N. bdy. of the tp. 3 lks. E. of the true cor. point of secs. 4, 5, 32 and 33.
	Thence I run South, on true line bet. secs. 4 and 5.
	Over rocky island and land subject to overflow.
2.58	Right bank of Dolores river, 2 to 4 ft. deep, swift current, rocky bottom, course N. 76° W.
4.63	Left bank of river, course N. 76° W.
5.03	Wire fence, bears E. and W.
	Enter James Mahaffeys field.
21.60	Leave field and wire fence bears N. 80° W. & S 80° E.
	Begin steep ascent of high spur.
31.00	Top of spur from Dolores point



Subdivision of T. 24 S., R. 26 E.

chains	
	320 ft. above base, projects NW. Thence over very steep rocky land facing West across numerous spurs and gulches.
38.70	Point for 1/4 sec. cor. will fall on loose shale rock where cor. cannot be perpetuated. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for witness cor. to the 1/4 sec. cor., marked on brass cap. T 24 S R 26 E on N. half, S 4 on E. half, S 5 on W. half, with WC 1/4 to the south, raise a mound of stone, 2 ft. base, 1 1/2 ft. high W. of cor. Pits impracticable
	Continue along steep bluff slope of canyon, through scattering forest of scrub cedar and pinon.
80.03	The cor. of secs. 4, 5, 8 and 9. Land mount anous and level.
	N. 21.60 chs., level land. soil, rich sandy loam and gravelly with a deep sand sub-soil; 1st rate
	S 58.43 chs. rough mountainous land along west slope of Dolores point. Soil, rocky and loose shale rock with a rocky sub soil: 4th rate Timber, some scrub cedar and pinon.
	Land mount anous, or heavily timbered 58.43 chs.
	Cease work 11 a. m.
	July 1, 1911

General Description

This township consist chiefly of high bruch lands, cut by two canyons with vertical walls of sandstone. Beaver canyon which traverses the center of the township in a northerly direction is about 1000 ft. deep and cut in solid sandstone. The Dolores river canyon which traverses secs. 4, 5, 6 & 7 in a westerly direction resembles Beaver canyon in character but is much wider and has along its bottom land about 160 acres of rich agricultural land. The soil of this land is generally a rich sandy loam with a deep sand sub soil, and produces abundant crops with irrigation. The soil of the remaining part is generally rocky and can be classed as 4th rate.
Upon the high bruch lands forests of scrub cedar and pinon of no commercial value are found, also a dense undergrowth of sage brush and chaparral. On many parts abundant growths of bunch grass are found and the land can be used for grazing purposes. The general drain of these bruchs are from high ridges west and east to Beaver Canyon.
The tp. is well watered by Beaver creek which flows in a northerly direction and by the Dolores river which is a very swift stream with an average width of 150 to 2 chs. and flows in a westerly direction
Graham's claim in secs. 6 & 7 consists of about 20 acres under

General Description

plow and producing crops with irrigation. His improvements amount to about $500.
E. J. Gallager has about 50 acres now under cultivation and about 20 acres more can be cultivated. Numerous improvements have been made upon this place and would amount to approximately $1500. This land is situated in secs. 5 and 6.
James Mahaffey's place in secs. 4 and 5 contains about 50 acres under cultivation and producing crops with irrigation. The improvements amount to about $1000.
Outside of the bottom lands along the Dolores river this tp. is only adapted for grazing of cattle.
No indications of mineral are found.

Howard W. Miller
U. S. Transitman.

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BOOK A-380

4—680

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, Howard W. Miller, Transitman, U. S. ~~Surveyor~~, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of the subdivision of T. 22 S., Rs. 22, 23 and 24 E., T. 24 S., R. 26 E. and T. 3 S., R. 22 E.; W., N., S. and E. bdrs. T. 22 S., R. 22 E., S. bdy. T. 22 S. R. 23 E., resurvey east bdy. of T. 22 S. R. 23 E., retracement N. bdy. T. 22 S., R. 23 E., retracement N. Bdy. T. 22 S., R. 24 E. Meanders Grand River in T. 22 S. R. 24 E. Resurvey N. bdy. T. 3 S. R. 22 E. Survey & resurvey W. Bdy. T. 25 S., R. 26 E. the S., W. & N. bdrs. T. 24 S. R. 26 E. and retracement Utah-Colorado bdy line bet. 116th & 119th - 123rd mile cors. of the Salt Lake Base and Meridian, in the State of Utah which are represented in the foregoing field notes as having been executed 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 executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	
Leland Winn	July 26, 1911	July 29, 1911	Roundman
John N. Massey	August 2, 1911	August 5, 1911	Roundman
Asa Massey	July 28, 1911	August 5, 1911	axman
Carl Ray	April 1, 1911	August 7, 1911	flagman
Fred Wright	May 9, 1911	August 7, 1911	Chainman
			Chainman

Subscribed and certified to before me on the dates of the final service as shown above.

Howard W. Miller

U. S. ~~Surveyor~~.

6—2761

FINAL OATH OF UNITED STATES SURVEYOR.

I, ..., U. S. Surveyor, do solemnly swear that, in pursuanc of special instructions received from the U. S. Surveyor General for ..... bearing date of the ..... day of ....., 191 , I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveyin Instructions, and the laws of the United States, surveyed all those parts or portions of .....

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

..... Meridian, in the State of ....., which are represented i the foregoing field notes as having been executed by me, and under my direction; and I do furth solemnly swear that all the corners of said survey have been established and perpetuated in strict accor ance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyo General for ..... and in the specific manner described in the field notes, and th the foregoing are the original field notes of such survey.

.....

U. S. Surveyor.

Subscribed by said ....., and sworn to before me this ..... day of ....., 191

SEAL

.....

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

....., 191

The foregoing field notes of the survey of .....

executed by .....

under his special instructions dated ....., 191 , having bee critically examined, and the necessary corrections and explanations made, the said field notes, and th survey they describe, are hereby approved.

.....

U. S. 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.

.....

U. S. Surveyor General.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Howard W Miller, Transitman, United States ~~Deputy Surveyor~~, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Subdivision of T. 24 S., R. 16 E. of the S.L.B.& M., Utah.

Showing the respective capacities in which they acted:

Chainman.

Chainman.

Moundman.

Roscoe Hallett, Moundman.

Effie Schaf, Axman.

Effie Schaf, ~~Axman~~ Flagman.

Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Howard W Miller, United States ~~Deputy Surveyor~~ Transitman, in surveying all those parts or portions of the Subdivision of T. 24 S., R. 16 E.

of the Salt Lake Base & meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Chainman.

Chainman.

Moundman.

Roscoe Hallett, Moundman.

Axman.

Effie Schaf, Axman.

Effie Schaf, Flagman.

Subscribed and sworn to before me this 1 day of July, 1901

SEAL

Howard W Miller
U.S. Transitman

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Howard W. Miller, United States Transit[illegible] solemnly swear that, in pursuance of special instructions received from Thomas Hull United States Surveyor General for U t a h, bearing date 6th day of August, 1910, and Supplemental Special Instructions dated Sept. 30, 1910, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surv[illegible] General for U t a h, the Manual of Surveying Instructions, and the laws of United States, surveyed all those parts or portions of the subdivisional lines of T.[illegible] S., R. 24 E.; T.20 S., R. 26 E.;; T. 21 S., R. 26 E.; T.22 S., R. [illegible] E.; T. 22 S., R. 22 E.; T. 24 S., R.26 E.;the subdivisional and mea[illegible] lines of T.20 S., R. 25 E.; T. 21 S., R. 25 E.;; T. 21 S., R. 24 E. 22 S., R.24 E. of the Salt Lake Ba[illegible] and meridian, in the State of U t a h, which are represented in foregoing field notes in books D.G.I.[illegible].P.T.V.X.& Z. as having been surveyed by me, and under my direction; and I do further sole[illegible] swear that all the corners of said survey have been established and perpetuated in strict accordance [illegible] the Manual of Surveying Instructions, and the special written instructions of the United States Surv[illegible] General for U t a h and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey.

Howard W. Miller
United States Transit[illegible]

Subscribed by said Howard W. Miller, and sworn to before me this 3 day of April 1912.

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

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, June 25, 1913.

The foregoing field notes of the survey of the subdivisional lines of Township No. 24 South, Range No. 26 East of the Salt Lake Base and Meridian, Utah,

executed by Howard W. Miller under his special instructions dated Supplemental Special Instructions August 6, 1910 and Sept. 30, 1910, having been critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor Ge[illegible]

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 offi[illegible]

United States Surveyor Ge[illegible]

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4—679.

"A"

BOOK A-380

FILED
FEB 14 1912

FIELD NOTES

Retracement and

OF THE SURVEY OF THE

SUBDIVISION AND MEANDER LINES

OF

TOWNSHIP 8 SOUTH RANGE NO. 1 EAST

Of the Salt Lake Base and *Meridian,*

In the State of Utah.

AS SURVEYED BY

Scott P.Stewart, Transitman, *United States Deputy Surveyor,*

Under his Contract No. Assignment Group No9, *dated* March 30,1911., *19*

Survey commenced April25,1911., *19*

Survey completed May.11,1911., *19*

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Ret. of Bdy 2-53-29
Ret. Subs 5-36-13
Subs 18-26-92
Meanders 6-59-92
Ret. " 22-03

Closing 3-05

BOOK A-380

NAMES AND DUTIES OF ASSISTANTS.

Eric H.Anderson,Chainman.

Clifford A.Jennings,Chainman.

Zenos Porter, Cornerman.

Ralph Hurst, Axman and Flagman.

BOOK A-380

INDEX DIAGRAM.

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Meanders Page .....

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Eric H. Anderson and Clifford A. Jennings do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level th chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; 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 retracement survey o Sub T. 8 S. R. 1 E. of Salt Lake Base and Meridian, Utah.

Eric H. Anderson, Chainman

Clifford A. Jennings, Chainman

Subscribed and sworn to before me this 25 day of April, 1911

SEAL

Scott P. Stewart
Instrumentman G.L.O.

~~WE~~, I, Genos Porter ~~and~~ do solemnly swear that ~~we~~ will well and truly perform the duties of moundmen in the establishme of corners, according to the instructions given ~~me~~, to the best of ~~our~~ skill and ability, in the retracement and survey Sub. T. 8 S. R. 1 E. of Salt Lake Base and Meridian, Utah

Genos Porter, Cornerman ~~Moundman~~

~~Moundman~~

Subscribed and sworn to before me this 25 day of April, 1911

SEAL

Scott P. Stewart
Instrumentman G.L.O.

~~WE~~, I, Ralph Hurst ~~and~~ do solemnly swear that ~~we~~ will well and truly perform the duties of axman and flagman in the establishment of corne and other duties, according to instructions given ~~me~~, to the best of ~~our~~ skill and ability, in the retracement an survey Sub T. 8 S. R. 1 E. of Salt Lake Base and Meridian, Utah

Ralph Hurst, Axman Flagm

Axma

Subscribed and sworn to before me this 25 day of April, 1911

SEAL

Scott P. Stewart
Instrumentman G.L.O.

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

....., Flagma

Subscribed and sworn to before me this ..... day of ....., 19

SEAL

6—151

Retracement. S.bdy.T.8 S.,R.1 E.

Survey commenced April 25,1911,and executed with a W.and L.E.Gurley Explorer's transit,No.956,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 lat.and declination arcs.

The instrument was examined,tested on the meridian at Salt Lake City,found correct and was approved by the Surveyor general for Utah,on April 22,1911.

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

At the cor.of secs.2,3,34,and 35,on S.bdy.of Tp.,latitude 40°04'19"N.,longitude 111°49'13"W.,I set off 40°04'N., on the lat.arc;13°05'N.,on the decl.arc;and at 3 h 58 m p.m.,l.m.t.,I determine a meridian with the solar,and mark a point thereof on a stone firmly set in the ground, 5.00 chs.N.of the cor.

April 25,1911.

April 26,1911:At 5 h 17 .6 m a.m.,l.m.t.,I observe Polaris at eastern elongation,in accordance with the Manual and mark a point in the line thus determined by a tack driven in a wooden plug set in the ground,5.00 chs.N.of the cor. At 7 h 30 m a.m.,l.m.t.,I lay off the azimuth of Polaris 1°32'to the west and mark a point in the meridian thus determined by cutting a small groove in the stone already set 5.00 chs.N.of the cor.;this mark falls 0.4 ins.east of the meridian established by the solar.

Retracement S.bdy.T.8 S.,R.1 E.-Continued.

Chains

At 7 h 58 m a.m.,l.m.t.,I set off 40°04'N.,on the lat. arc;13°18'N.,on the decl.arc;and mark the meridian determined by the solar,by a cross on the stone already set 5.00 chs.N.of the cor.;this mark falls 0.37 ins.east of the meridian determined by Polaris observations.

The solar papparatus by p.m.and a.m.observations defines positions for meridians respectively about 0'21"West and 0'19"east of the meridian established by Polaris observation;therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian,at 8 h 30 m a.m., is N.16°25'W.,the angle thus determined gives the mag. decl.a 16°25'E.

Note:The cor.of secs.2,3,34,and 35,was found by retracing West from the cor.of secs.1,2,35,and 36,which is in the center of a county road and was identified as the original cor.by old settlers living in the neighborhood.

The old cor.of secs.2,3,34,and 35,is a sandstone18x7x6 ins.lying on top of ground.The calcareous stone described in the original notes is 26 lks.west and 8 lks.S.of this cor.,as originally described.

I destroy the old cor.and re-establish it in the same place as follows:

Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of secs.2,3,34,and 35,mkd.on brass cap

T 8 S S 34 in NW.

R 1 E S 35 in NE.

R 1 E S 2 in SE.;and

T 9 S S 3 in SW.quadrants;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.

Note :Before commencing the regular subdivision of this township I decide to retrace part of the old work adjoining my survey,and proceed as follows:

Retracement S.bdy.T.8 S.,R.1 E.-Continued.

	Thence I run
	S.89°59'W.on a retracement line bet.secs.3 and 34.
	Over rolling land;through dense sage brush.
	Asc.
1.00	Leave valley and ascend,bears N.and S.
5.80	Top of spur,100 ft.above cor.,bears NE and SW.
	Desc.
10.00	Bottom of hollow,15 ft.below ridge,course NE .
	Rock slide in bottom.
	Asc.
25.00	Enter scattering cedar timber,bears N.and S.
39.96	Fall 10 lks.N.of the ¼ sec.cor.bet.secs.3 and 34,which is a limestone,10x12x6 ins.above ground,firmly s t,and mkd.and witnessed as described by the surveyor general. I destroy this cor.and re-establish in the same place as follows:
	Set an iron post,3 ft.long,1 in.in dia.,24 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 34 in N half and S 3 in S half;from which
	A cedar,10 ins.dia.,bears N.40°E.,45 lks. dist..mkd.¼ S 34 B T.
	A cedar,10 ins.dia.,bears S.69°W.,29 lks. dist..mkd.¼ S 3 B T.
	Note:This cor.is on a steep side hill sloping northeast and about 2 chs.south of head of ravine.
48.10	Drag road on top of ridge,1000 ft.above valley,bears N.20°W.and S.20°E.
	Desc.
59.35	Head of canon,250 ft.below ridge,course S.15°E.
	Asc.
79.00	Top of divide ridge,350 ft.above canon,bears N.20°W.and S.20°W.
	Desc.
79.92	Fall 22 lks.N.of the cor.of secs.3,4,33,and 34,which is a limestone,12x12x6 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general.

Retracement S.bdy.T.8 S.,R.1 E.-Continued.

Chains

I destroy the old cor.and re-establish it in the same pl
as follows:
Set an iron post,3 ft.long,3 ins.in dia.,12 ins.in the
ground,on solid limestone,and surrounded by mound of
earth and stone,for cor.of secs.3,4,33,and 34,mkd.on bra
cap

T 8 S S 33 in NW.
R 1 E S 34 in NE.
R 1 E S 3 in SE.;and
T 9 S S 4 in SW.quadrants;from which
A cedar,5 ins.dia.,bears N.64°E.,57 lks.
dist..mkd.T 8 S R 1 E S 34 B T.
A cedar,6 ins.dia.,bears S.30°E.,153 lks.
dist..mkd.T 9 S R 1 E S 3 B T.
A cedar,6 ins.dia.,bears S.2°00'W.,85 lks.
dist..mkd.T 9 S R 1 E S 4 B T.
A mahogany, 4 ins.dia.,bears N.17°30'W.,24 lks
dist..mkd.T 8 S R 1 E S 33 B T.

The course of this line is therefore S.89°50'W.,79.92
chs.
Land,mountainous and rolling .
Soil,clay and gravelly loam 2nd and 3rd rate.
Undergrowth,sage brush .
Timber,cedar .
Good grass for grazing.
Mountainous land or land covered with dense undergrowth
79.92 chs.

11 a.m. April 26,1911.

May 5,1911:At 7 h 57 m a.m.,l.m.t.,I set off 40°04'N.,
on the lat.arc;16°04'N.,on the decl.arc;and determine a
meridian with the solar,at the cor.of secs.3,4,33,and 3
on S.bdy.of Tp.,
Thence I run

Retracement S.bdy.T.8 S.,R.1 E.-Continued.

Chains	
	West, on a retracement line bet.secs.4 and 33.
	Over mountainous land; through scattering sage and bitter brush and scattering cedar timber.
	Desc.
17.00	Head of canon, 250 ft.below cor., course N.30°W.
	Asc.
21.00	Top of ridge, 100 ft.above canon, bears NW and SE.
	Desc.along south slope of ridge .
40.00	Fall 35 lks. N.of the ¼ sec.cor.bet.secs.4 and 33, which is a limestone, 18x12x6 ins., lying on top of ground, mkd. and witnessed as described by the surveyor general.
	I destroy all traces of the old cor.and re-establish it in the same place as follows:
	Set an iron post, 3 ft.long, 1 in in dia., 24 ins.in the ground, for ¼ sec.cor..mkd.on brass cap ¼ S 33 in N half and S 4 in S half; from which
	A cedar, 8 ins.dia., bears N.38°E., 61 lks. dist..mkd.¼ S 33 B T.
	A cedar, 12 ins.in dia., bears S.11°E., 56 lks. dist..mkd.¼ S 4 B T.
	I continue my line west
51.00	Drag road, bears NW and SE.
51.20	Bottom of canon, 850 ft.below ridge, course NW.
	Asc.abruptly.
59.10	Top of spur, 500 ft.above canon, bears N.60°E.and S.60°W.
	Desc.
60.30	Head of hollow, 30 ft.below ridge, course N.60°E.
	Asc.abruptly.
68.70	Top of ridge, 300 ft.above hollow, bears NE and SW.
	Enter heavy timber, bears NE and SW.
	Desc.gently.
77.04	Fall 196 lks.N.of the cor.of secs.4,5,32,and 33, which is a sandstone, 18x12x8 ins., lying on top of ground, mkd.and witnessed as described by the surveyor general.
	I destroy the old cor.and at the same point set an iron post, 3 ft.long, 3 ins.in dia., 24 ins.in the

Retracement S.bdy.T.8 S.,R.1 E.-Continued.

Chains

ground,for cor.of secs.4,5,32,and 33,mkd.on brass cap

T 8 S R 1 E.

in N .half.

R 1 E S 4 in SE.;and

T 9 S S 5 in SW.quadrants;from which

A cedar,24 ins.dia.,bears S.55°30'E.,112 lks.

dist..mkd.T 9 S R 1 E S 4 B T.

A cedar,12 ins.dia.,bears S.72°30'W.,97 lks.

dist..mkd.T 9 S R 1 E S 5 B T.

Note:I mark this cor.for cor.of secs.4 and 5 only ,knowin that a closing cor.will be necessary from the north.

The course of the east half of this mile is therefore S.89°30'W.,40.00 chs.and the west half is S.87°31'W.,37.0 chs.

Land,mountainous,steep and rugged.

Soil,gravelly;2nd rate.

Timber,cedar .

Undergrowth,sage and bitter brush.

Mountainous or heavily timbered land,77.08 chs.

May 5,1911:At this cor.I set off 16°06'W.,on the decl. arc;and at 11 h 57 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 40°04'N.,which is the proper lat.nearly.

West,on a retracement line bet.secs.5 and 32.

Over mountainous land;through scattering timber and dens sage brush.

Asc.gradually.

4.40 Top of ridge,10 ft.above cor.,bears N.20°W.and S.20°E.

Desc.abruptly.

36.85 Fall 81 lks.N.of the ¼ sec.cor.,bet.secs.5 and 32,which a limestone,14x15x5 ins. above ground,mkd.and witnessed as described by the surveyor general.

I destroy the old cor.and re-establish it in the same

Retracement S.bdy.T.8 S.,R.1 E.-Continued.

Chains	
	place as follows:
	Set an iron post,3 ft.long,1 in.in dia.,24 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 32 in N half and S 5 in S half;and raise a mound of stone,2 ft.base, 1½ ft.high,E.of cor.(the mound could not be built on N. of cor.)
47.00	Foot of mountain,200 ft. below sec.cor.,bears N.and S. Desc.gradually.
49.10	County road,bears N.and S.
56.28	Fall 124 lks.N.of the meander cor.of secs.5 and 32,on E. bank of Utah lake,which is a limestone,5x15x5 ins.above ground,firmly set,and mkd.and witnessed as described by the surveyor general.
	I destroy all traces of this cor.and at the same point Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for meander cor.of secs.5 and 32,mkd.on brass cap
	M C T 8 S R 1 E S 32 in N half.;and
	T 9 S R 1 E S 5 in S half;and raise a mound of stone,2 ft.base,1½ ft.high,E.of cor.
	The course of this line is therefore S.88°44'W.,the east half is 36.84 chs.and the whole mile is 56.29 chs.
	Land,mountainous and nearly level.
	Soil,gravelly and sandy;2nd and 3rd rate.
	Timber,scattering cedar.
	Undergrowth,sage brush.
	Mountainous land,or land covered with dense undergrowth.
	56.29 chs.
	May 5,1911.

Retracement Sub.,T.8 S.,R.1 E.

April 26,1911;from the cor.of secs.2,3,34,and 35,on S. bdy.of Tp.,heretofore described.

Retracement Sub.T.8 S.,R.1 E.-Continued.

Chains	
	Note:I run on the meridian determined as this cor.this morning.
	Thence I run
	North,on a retracement line bet.secs.34 and 35.
	Over rolling foot hills;descend gently.
3.60	Wash,3 ft.deep,10 lks.wide, in rocks,course E.
23.30	Wash,20 lks.wide,2 ft.deep,course E.
	Asc.
29.00	Wash,20 lks.wide,1 ft.deep,course E.
36.00	Wash,15 lks.wide,2 ft.deep,course E.
40.02	Fall 6 lks.W.of the ¼ sec.cor.bet.secs.34 and 35,which i a sandstone,5x10x6 ins.,above ground,mkd.and witnessed a described by the surveyor general.I destroy this cor.and at the same point
	Set an iron post,3 ft.long,1 in.in dia.,24 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 34 in W.half and S 35 in E half;and raise a mound of stone,2 ft.base, 1½ ft.high,W.of cor.
44.00	Begin asent,bears N.80°E.and S.80°W.
46.60	Wash,10 lks.wide,1 ft.deep,in ravine,30 ft.deep,course E.
	Asc.
48.00	Top of ridge,50 ft.above ravine ,bears E.and W.
	Desc.
55.60	Bottom of hollow,50 ft.below ridge,course E.
	Asc.
60.00	Top of spur,30 ft.above hollow,bears E.and W.
	Desc.
64.20	Ravine,40 ft.deep,course E.
	Asc.
71.00	Top of ridge,40 ft.above ravine,bears E.and W.
	Desc.
76.00	Ravine,30 ft.deep,course E.
	Asc.
79.66	Fall 1 lks.E.of the cor.~~xxxxxxxxxx~~of secs.26,27,34,and 35;which is a sandstone,10x8x7 ins.,above ground, loosly set,and mkd.and witnessed as described by the

Retracement Sub.T.8.S.,R.1.E.-Continued.

Chains	
	surveyor general.
	I destroy the old cor.and re-establish it in the same place as follows:
	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.26,27,34,and 35,mkd.on brass cap
	T 8 S S 27 in NW.
	R 1 E S.26 in NE.
	S 35 in SE.;and
	S 34 in SW.quadrants;and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
	The course of the south half of this mile is therefore N.0°05'E.,40 .02 chs.the N.half is N.0°05'W.,39.64 chs.
	Land,rolling hills and mountainous
	Soil,sandy and rocky;2nd rate.about 2 ft.deep.
	Mountainous land,35.66 chs.
	April 26,1911.
	April 27,1911:At 7 h 58 m a.m.,l.m.t.,I set off 40°05'N., on the lat.arc;13°37'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.26,27,34,and 35.
	Thence I run
	North,on a retracement line bet.secs.26 and 27.
	Over mountainous land,through dense sage brush.
	Desc.
5.50	Foot of mountain,80 ft.below sec.cor.,bears N.20°W.and S.20°E.
	Thence over rolling foot hills.
8.20	Drag road,bears NW and SE.
9.50	Wash,15 lks.wide,8 ft.deep,course E.
	Asc.
17.70	Wash,10 lks.wide,1 ft.deep,course E.
23.65	Wash,15 lks.wide,6 ft.deep,course E.

Retracement Sub.T.8.S.,R.1.E.-Continued.

Chains

40.18 Fall 12 lks.West of the ¼ sec.cor.bet.secs.26 and 27. which is a sandstone,12x8x6 ins.,lying on top of ground, mkd.and witnessed as described by the surveyor general. I destroy the old cor.and re-establish it in the same place as follows:

Set an iron post,3 ft.long,1 in.in dia.,24 ins.in the ground,for ¼ sec.cor.,mkd.on brass cap ¼ S 27 ins W.half and S 26 in E half;and raise a mound of stone,2 ft.base, 1½ ft.high,W.of cor.

70;18 Fall 5 lks.W.of the closing cor.of secs.26 and 27,on S.bdy.of Spanish Fork Indian Reserwation,Which is a sandstone,7x9x6 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general.

I destroy the old cor.and re-establish it in the same place as follows:

Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for closing cor.of secs.26 and 27,mkd.on brass cap

T 8 S R 1 E S 26 S 27 in N half.
C C in S half;
S 26 in SE.;and
S 27 in SW quadrants;and raise a mound of stone, 2 ft.base,1½ ft.high,S.of cor.

77.90 Drag road,bears E.and W.

80.12 Fall 3 lks.W.of the cor.of secs.22,23,26,and 27,which is a sandstone,12x14x6ins.above ground,firmly set,and mkd.and witnessed as describedby the surveyor general. I destroy all traces of this cor.and re-establish it in t the same place as follows:

Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.22,23,26,and 27,mkd.on brass cap

T 8 S S 22 in NW.
R 1 E S 23 in NE.
S 26 in SE.;and
S 27 in SW.quadrants;and raise a mound of stone,

Retracement Sub.T.8 S.,R.1 E.-Continued.

Chains 2 ft.base,1 ½ ft.high,W.of cor.

The course of the south half of this mile is therefore N.0°10'E.,40.18 chs.;the North half is N.0°08'W.,39.94 chs.

Note:The closing cor.of secs.22 and 27,on the Spanish Fork Indian Reservation,bears West 1.98 chs.from this cor.,said cor.is alimestone,10x10x10 ins.above ground, firmly set,and mkd.and witnessed as described by the surveyor general.

I destroy the old cor.and re-establish it in the same place as follows:

Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for closing cor.of secs.22 and 27,mkd.on brass cap

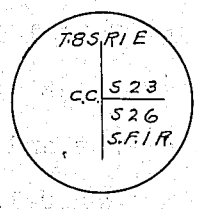
T 8 S R 1 E in N half.

C C in W half.

S F I R in E half.

S 23 in NE. and

S 26 in SE.quadrants;and raise a mound of stone, 2 ft.base,1½ ft.high,E.of cor.



Description of N.and S.mile.

Land,mountainous and rolling and nearly level.

Soil,gravelly;2nd rate.

No timber.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth, 80.12 chs.

April 27,1911:At this cor.I set off 13°40'N.,on the decl. arc;and at 11 h 58 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 40°06'N.,which is the proper lat.nearly.

North,on a retracement line bet.secs.22 and 23.

Over gently rolling land through dense sage brush.

Retracement Tp.T.8 S.,R.1 E.-Continued.

Chains

Desc.

2.80 Wash,20 lks.wide,7 ft.deep,course E.

4.60 Wash,10 lks.wide,5 ft.deep,course E.

7.70 Drag road,bears N.80°E.and S.80°W.

8.60 Wash,10 lks.wide,3 ft.deep,course E.

12.70 Wash,10 lks.wide,2 ft.deep,course E .

15.20 wash,10 lks.wide,2 ft.deep,course E.

17.60 Wash,20 lks.wide,3 ft.deep,course E.

19.60 Wash,10 lks.wide,3 ft.deep,course E.

32.00 Wash,15 lks.wide,15 ft.deep,course E.

32.80 Top of spur,20 ft.high,bears E.and W.

Desc.

35.40 Wash,40 lks.wide,4 ft.deep.course N.60°E.

40.10 Fall 1 lk.west of the old ¼ sec.cor.bet.secs.22 and 23, which is a sandstone,5 x10x5 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general.

I destroy the old cor.and re-establish it in the same place as follows:

Set an iron post,3 ft.long,1 in.in dia.,24 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 22 in W half and S 23 in E half;and raise a mound of stone,2 ft.base, 1½ ft.high,W.of cor.

45.00 Asc,over rolling hills,bears E.and W.

54.00 Old road,bears N.80°W.and S.80°E.

57.20 Wash,30 lks.wide,3 ft.deep,course S.80°E.

60.00 Top of spur,30 ft.above wash,bears NW and SE.

Desc.

65.00 Wash,5 lks.wide,1 ft.deep,course E.

66.00 Old drag road,bears NE and SW.

78.00 Top of spur,20 ft.above hollow,bears N.80°E.and S.80°W.

Desc.

79.00 Wash,30 lks.wide,4 ft.deep,course N.80°E.

80.20 Fall 2 lks.W.of the cor.of secs.14,15,22,and 23,which is a red sandstone,14x10x5 ins.,on top of ground,mkd.and

Retracement Sub.T.8 S.,R.1 E.-Continued.

Chains witnessed as described by the surveyor general.

I destroy the old cor.and re-establish it in the same place as follows:

Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.14,15,22,and 23,mkd.on brass cap

T 8 S S 15 in NW.

R 1 E S 14 in NE.

S 23 in SE.;and

S 22 in SW.quadrants;and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.

The course of this mile is therefore N.0°01'E.,80.20 chs.

Note:The closing cor.of secs.15 and 22,on the Spanish Fork Indian Reservation Bdy.bears West 1.68 chs.from this cor. and said cor.is a quartzite stone,11x9x8 ins.,above ground, firmly set,and mkd.and witnessed as described by the sur-general.

I destroy this old cor.and re-establish it in the same place as follows:

Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for closing cor.of secs.15 and 22,mkd.on brass cap

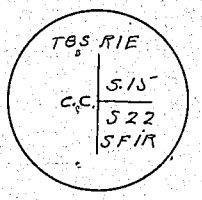
T 8 S R 1 E in N half.

C C in W half.

S.F.I R.in E half;

S 15 in NE;and

S 22 in SE.quadrants;and raise a mound of stone, 2 ft.base,1½ ft.high,E.of cor.



Land,mountainous and rolling.

Soil,clay and gravelly loam;2nd rate.

No timber.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth, 80.20 chs.

April 27,1911.

Retracement Sub.T.8 S. ,R.1 E.-Continued.

Chains	
	April 28,1911:At 7 h 58 m a.m.,l.m.t.,I set off 40°07'N.,o the lat.arc.;13°57'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.14,15,22,and 23,.
	Thence I run
	North,on a retracement line bet.secs.14 and 15.
	Over rolling foot hills;through dense sage brush.
	Desc.gently.
1.10	Old road,bears E.and W.
31.70	Wash,8 lks.wide,1 ft.deep,course E.
40.10	Old road,bears E.and W.
40.33	Fall 6 lks.E.of the old ¼ sec.cor.bet.secs.14 and 15, which is a sandstone,16x10x4 ins.,lying on top of ground mkd.and witnessed as described by the surveyor general.
	I destroy the old cor.and re-establish it in the same place as follows:
	Set an iron post,3 ft.long,1 in.in dia.,24 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 15 in W half; and S 14 in E half ;and raise a mound of stone,2 ft.base 1½ ft.high,W.of cor.
44.75	Wash,6 lks.wide,1 ft.deep,course E.
49.30	Wash,10 lks.wid,1 ft.deep,course E.
56.00	Wash,10 lks.wide,2 ft.deep,course E.
63.00	Leave dense and enter scattering undergrowth,bears NW an SE.
80.58	Fall 12 lks.E.of the cor.of secs.10,11,14,and 15,which i a limestone,10x8x6 ins.,above ground,loosely set,and poorly mkd.in old mound of stone.I destroy the old cor. and re-establish it in the same place as follows:
	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.10,11,14,and 15,mkd.on brass cap
	T 8 S S 10 in NW.
	R 1 E S 11 in NE.
	S 14 in SE.;and
	S 15 in SW.quadrants;and raise a mound of stone

Retracement Sub,T.8 S.,R.1 E.-Continued.

Chains

2 ft.base,1½ ft.high,W.of cor.

The course of this mile is N.0°05'W.,80.56 chs.

Note:The closing cor.of secs.10 and 15,on West bdy.Spanish Fork Indian Reservation,bears West 1.38 chs.,this cor.is a sandstone,15x10x5 ins.,above ground,loosely set,and the marks are almost obliterated.It stands in old mound of stone.

I destroy the old cor.and re-establish it in the same place as follows:

Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for closing cor.of secs.10 and 15,mkd.on brass cap

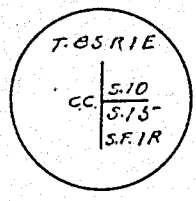
T 8 S R 1 E in N half.

C C in W half.

S F I R in E half.

S 10 in NE.;and

S 15 in SE quadrants;and raise a mound of stone,



2 ft.base,1½ ft.high,E.of cor.

Land,rolling foot hills.

Soil,gravelly and rocky ;2nd and 4th rate.

No timber,

Undergrowth,sage brush.

Land covered with dense undergrowth,63.00 chs.

North,on a retracement line bet.secs.10 and 11.

Over rolling land;

Asc.gently.

11.60 Wash,5 lks.wide,2 ft.deep,course E.

18.20 Wash,6 lks.wide,2 ft.deep,course E.

28.50 Wash,10 lks.wide,3 ft.deep,course E.

31.90 Begin ascent,bears N.30°E.and S.30°W.

40.25 Intersect the ¼ sec.cor.bet.secs.10 and 11,which is a sandstone,5x9x9 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general.

I destroy the old cor.and re-establish it in the same

Retracement Sub.T.8 S.,R.1 E.-Continued.

Chains

place as follows:

Set an iron post,3 ft.long,1 in.in dia.,24 ins.in the ground,for ¼ sec.cor.,mkd.on brass cap ¼ S 10 in W half and S 11 in E half;and raise a mound of stone,2 ft.base, 1½ ft.high,W.of cor.

62.00 Top of ridge,100 ft.above ¼ sec.cor.,bears NE and SW.

Enter large sandstone boulders.

Desc.

79.80 Intersect The cor.of secs.2,3,10,and 11,which is mkd.by the old mound of stone,the old cor.stone being missing.

I re-establish the old cor.at this point as follows:

Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.2,3,10,and 11,mkd.on brass cap

T 8 S S 3 in NW.

R 1 E S 2 in NE.

S 11 in SE.;and

S 10 in SW.quadrants;and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.

The course of this mile is therefore North,79.80 chs.

Note:The closing cor.of secs.3 and 10,on the West bdy.of the Spanish Fork Indian Reservation,bears West 1.08 chs. dist.;this cor.is mkd.by an old mound the corner stone is missing.

I re-establish this cor.at this point as follows:

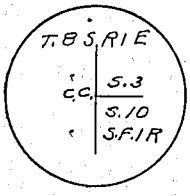
Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for closing cor.of secs.3 and 10,mkd.on brass cap

T 8 S R 1 E in N half.

C C in W half.

S F I R in E half.

S 3 in NE.;and



S 10 in SE.quadrants;and raise a mound of stone, 2 ft.base,1½ ft.high,E.of cor.

Land,mountainous and rolling.

Soil,gravelly and rocky;2nd and 3rd rate.

No timber.

Retracement Sub.T.8 S.,R.1 E.-Continued.

Chains	
	No undergrowth.
	Mountainous land,7.90 chs.
	April 28,1911:At this cor.I set off 13°59'N.,on the decl. arc;and at 11 h 58 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 40°09'N.,which is the proper lat.nearly.
	East,on retracement line bet.secs.2 and 11.
	Over rolling mountainous land;through scattering sage brush and limestone boulders.
	Desc.
14.00	County road,bears N.20½W.and S.
15.65	To shore of Utah Lake ,an old mound is found here which is evidently the old meander cor.Therefore at this point I
	Set an iron post,3 feet long,1 in.in dia.,24 ins.in the ground,for meander cor.of secs.2 and 11,mkd.on brass cap T 8 S R 1 E in N half. M C S 11 in S half.;and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
	Land,rolling mountainous.
	Soil,gravelly and rocky;2nd and 3rd rate.
	No timber.
	Undergrowth,scattering sage brush.
	No grass .
	Rolling mountainous land,.5.65 chs.
	From the cor.of secs.2,3,10,and 11,I run
	North,on a retracement line bet.xxxx.fracl.secs.2 and 3.
	Over rolling mountainous land;through scattering sage brush and boulders .
	Desc.

Retracement Sub.T.8 S.,R.1 E.-Continued.

Chains	
13.75	County road,bears S.60°E.and S.60°W.
14.00	Old mound on shore of Utah Lake,evidently the old meander cor.of fracl.secs.2 and 3.

I set an iron post,3 ft.long,1 in.in dia.,24 ins.in the ground,for meander cor.of fracl.secs.2 and 3,mkd.on brass cap

T 8 S R 1 E in N.half.

S 2 in SE.;and

M C S 3 in SW.quadrants;and raise a mound of stone,2 ft.base,1½ ft.high,S.of cor.

Land,rolling mountainous .

Soil,gravelly and rocky;2nd and 3rd rate.

No timber.

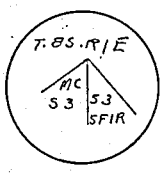
Undergrowth,sage brush.

Rolling mountainous land,14.00 chs.

Note:From this cor.a warm spring in the edge of lake bears NE about 175 lks.dist.

Note:The old NW.cor.of the Spanish Fork Indian Reservation bdy.,bears N.36°W.,182 lks.dist.;this point is mkd. by an old mound of stone.

I re-establish this cor. at the same point as follows: Set an iron post,3 ft.long,1 in.in dia.,24 ins.in the ground,for NW cor.of Spanish Fork Indian Reservation,and meander cor.of fracl.sec.3,mkd.on brass cap



T 8 S R 1 E in N half.

S F I R S 3 in SE.;and

M C S 3 in SW.quadrants;and raise a mound of stone,2 ft.base,1½ ft.high,S.of cor.

3 p.m.April 28,1911.

Sub.T.8 S.,R.1 E.

Chains Survey commenced April 29,1911,and executed with a W.and L.E.Gurley Explorer's transit,No.956,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;which is also the least count of the latitude and declination arcs.

The instrument was examined tested on the meridian,at Salt Lake City,found correct,and was approved by the surveyor general for Utah,on April 22,1911.

Note:For complete test of Instrument See notes of Retracement S.bdy.this township in this book.

April 29,1911:At 7 h 57 m a.m.,l.m.t.,I set off 40°04'N., on the lat.arc;14°15'N.,in the decl.arc;and determine a meridian with the solar,at the cor.of secs.3,4,33,and 34, on S.bdy.of Tp. heretofore described.

Thence I run

N.0°01'W.,bet.secs.33 and 34.

Over mountainous land;through scattering timber and dense sage brush.

Asc.

5.00 Top of divide ridge,40 ft.above sec.cor.,bears N.20°W.and S .20°E.

Desc.

15.00 Head of canon,80 ft.below ridge,course NE.

Asc.

15.10 Old drag road,bears E.and W.

38.30 Point from which a old corral surrounding a seep from which no water runs,bears E.130 lks.dist.

40.00 Set an iron post,3 ft.long,1 in.in dia.,24 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 33 in W half and S 34 in E half;andraise a mound of stone,2 ft.base, 1½ ft.high,W.of cor.

40.50 Head of small ravine course E.

Asc.

Sub.T.8 S.,R.1 E.-Continued.

Chains	
60.50	Old drag road,bears E.and W.
63.00	Top of divide ridge,200 ft.above hollow,bears N.30°E.and S.20°W.
	Desc.
63.00	Enter heavy cedar timber,bears N.20°E.and S.20°W.
74.15	Bottom of canon,200 ft.below ridge,course W.
	Asc.
80.00	Set an iron post 3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.27,28,33,and 34,mkd.on brass cap
	T 8 S S 28 in NW.
	R 1 E S 27 in NE.
	S 34 in SE.;and
	S 33 in SW.quadrants;from which
	A cedar,24 ins.in dia.,bears N.25°E.,38 lks.
	dist..mkd.T 8 S R 1 E S 27 B T.
	A cedar,14 ins.dia.,bears S.71°E.,38 lks.
	dist..mkd.T 8 S R 1 E S 34 B T.
	A cedar,12 ins.dia.,bears S.50°W.,24 lks.
	dist..mkd.T 8 S R 1 E S 33 B T.
	A cedar,14 ins.dia.,bears N.22°30(W.,53 lks.
	dist..mkd.T 8 S R 1 E S 28 B T.
	Land,mountainous .
	Soil,gravelly and rocky 2nd and 4th rate.
	Timber,cedar
	Undergrowth,sage brush.
	Good grass .
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	April 29,1911:At this cor.I set off 14°18'N.,on the decl arc;and at 11 h 57 m a.m.,l.m.t.,I observe the sun on th meridia ,the resulting lat.is 40°05'N.,which is the proper lat.nearly.

Sub.T.8 S.R.1 E. Continued.

Chains.	
	N.89°50'E.,on a random line bet.secs. 27 and 34.
40.00	Set temp.¼ sec.cor.
80.04	Intersect N.and S.line 21 lks.N.of the 3 cor.of secs.26, 27,34 and 35.
	Thence I run
	S.89°59'W.,on a true line bet secs.27 and 34.
	Over mountainous land th rough dence sage brush,
	Ascend.
8.10	Drag road bears N20°E.and S.20° W.,on top of ridge,150 ft.above sec.cor. ,bears same.
	Descend.
18.00	Bottom of canon,100 ft.below ridge,course N.30°E.,ascend.
24.00	Top of spur 100 ft.above hollow,bears N.50° E,and S.50°W.
	Descend.
27.80	Bottom of Canon ,70 ft. below ridge ,course N.20°E.
	Ascend.
37.00	Top of ridge 200 Ft. above canon,bears N.15°W.and S.15°E.
	Descend.
38.10	Bottom of wash ,50 lks.wide,20 ft.deep,course S.10°E.
	Enter Scattering timber,bears same. Continue ascent.
40.02	Set an iron post,3 ft.long ,1 in.in dia.,14 ins.in the ground,on solid rock,and surrounded by a mound of stone, for ¼ sec.cor.,mkd.on brass cap ¼ S.27 in N half and S. 34 in S half;from which
	A mahogany,6 ins. dia.,bears N.87°E.,12 lks. dist.,mkd. ¼ S.27 B T.
	A.cedar,4 ins.in dia.,bears S.21°E.109 lks. dist.,mkd.¼ S.34 B T.
60.00	Enter heavy cedar timber bears N.and S.
62.00	Head of hollow,300 ft above last ridge,course S.E.
	Continue ascent.
72.50	Top of Divide Ridge,1200 Ft.above valley,bears N.10°E., and S.20°W.
	Descend.
80.04	The cor.of secs.27,28,33,and 34.
	Land mountainous.

T.8 S.,R.1 E.-Continued.

Chains

Soil gravelly and rocky ,12 to18 ins.deep,subsoil rocky.

Timber cedar.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous or heavily timbered land or land covered with dense undergrowth,80.04 chs. April 29.1911.

May 1,1911:At 7 h 57 m a.m.,l.m.t.,I set off 40°05'n.,on th lat.arc;14°53'W.,on the decl.arc;and determine a meridian with the solar at the cor.of secs.27,28,33,and 34.
Thence I run
N.0°1'E.,bet.secs.27 and 28.

Over mountainous land through dence undergrowth,and scattering timber.

Ascend.

12.00 Top of ridge ,140 ft.above sec .cor.bears E.and W.

Descend.

20.20 Bottom of canon,400 ft below ridge ,course N.60°W.

Asc.

24.00 Top of ridge 100 ft.above canon,bears E.and W.

Desc.

25.00 Leave scattering cedars bears E.and W.

31.00 Bottom of hollow 130 ft.below ridge,course S.70°W.

Asc.

40.00 Point 150 ft.above canon.

Set andironcpost,3 ft.long,1 in.in dia.,12 ins.in the ground on solid rock;and surrounded by a mound of stone, for ¼ sec Cor.,mkd.on brass cap ¼ S28 in W half,and S 27 in E half ;and raise a mound of stone 2 ft.base ,1½ ft. high,W.of cor.

48.00 Top of ridge 400 ft.abobe hollow bears E.and W.

Desc.

58.00 Head of hollow, 40 ft.above ridge ,course N.W.

Asc.

64.00 Top of ridge ,30 ft.above bears N.W.and S.E.

Desc.

66.40 West side of prospect shaft,6x 6 ft.and 8 ft deep.

Note .There is a vein of Onyx exposed here,bearing N.E.and

Sub.T.8 S.,R.1 E.-Continued.

Chains	
	SW.
	Descend along top of spur bearing north.
80.00	To point 300 ft.below top of ridge.
	Set an iron post,3 ft.long,2 ins.in dia.,12 ins.in the ground,on solid rock and surrounded by mound of earth and stone,for cor.of secs.,21,22,27,and 28,mks.on brass cap
	T 8 S S 21 in NW.
	R 1 E S 22 in NE.
	S 27 in SE.;and
	S 28 in SW.quadrants;and raise a mound of stone,
	2 ft.base,1½ ft.high,W.of cor.
	Land,mountainous .
	Soil,gravelly and rocky;2nd and 4th rate.
	Undergrowth,sage brush.
	Timber,cedar .
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,
	80.00 chs.
	May 1,1911:At this cor.I set off 14°55'N.,on the decl.
	arc;and at 11 h 57 m a.m.,l.m.t.,I observe the sun on the
	meridian,the resulting lat.is 40°06 'N.,which is the
	proper lat.nearly.

	N.89°59'E.,on a random line bet.secs.22 and 27.
40.00	Set temp.¼ sec.cor.
78.12	Intersect W.bdy.of Spanish Fork Indian Reservation,2 lks.
	N.of the closing cor.of fracl.secs.22 and 27.
	Thence I run
	West,on a true line bet.secs.22 and 27.
	Over rolling land;through dense sage brush.
	Asc.
.10	Wash,12 lks.wide,2 ft.deep,course N.60°E.
	Asc.
7.90	Old drag road,bears N.60°E.and S.60°W.

Sub.T.8 S.,R.1 E.-Continued.

Chains

13.30 Ledge,10 ft.high,bears N.and S.

18.75 Old drag road,bears N.60°E.and S.60°E.

22.30 Leave valley and begin ascent of mountain,bears N.and S.

36.30 Top of ridge,500 ft.above closing cor.,bears NE and SW.

Enter bitter brush and scattering cedar timber,bears NE and SW.

Desc.

38.12 Set an iron post,3 ft.long,1 in.in dia.,24 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 22 in N half and S 27 in S half;from which

A cedar,4 ins.dia.,bears N.43°E.,40 lks. dist..mkd.¼ S 22 B T.

A cedar,8 ins.dia.,bears S.83°W.,50 lks. dist..mkd.¼ S 27 B T.

40.70 Limestone ledge 10 ft.high,bears NE and SW.

43.00 Head of hollow,30 ft.below ridge,course NE.

Asc.

48.00 Top of ridge,160 ft.above hollow,bears NE and SW.

Leave timber,bears NE and SW.

Desc.

54.30 Enter ledges,bears N.15°E.and S.15°W.

58.00 Leave ledge,bears N.15°E.and S.15°W.

58.00 Head of Ravine,course N.80°E.

Asc.

62.60 Red shale ledge,40 ft.high,bears N.10°E.and S.10°W.

63.30 Drag road,bears N.20°E.and S.20°W.

Top of divide ridge,1200 ft.above closing cor.,bears N.20° and S.20°W.

Desc.

76.50 Bottom of hollow,300 ft.below ridge,course N.

Asc.

77.50 Top of ridge,50 ft.above hollow,bears N.and S.

Desc.

78.12 The cor.of secs.21,22,27,and 28.

Land,mountainous and rolling .

Sub.T.8 S.,R.1 E.-Continued.

Chains	
	Soil,gravelly and rocky.2nd and 4th rate.
	Timber,cedar .
	Undergrowth,sage and bitter brush.
	Good grass for grazing.
	Mountainous land or land covered with dense undergrowth,
	78.12 chs.
	May 1,1911.
	May 2,1911:At 7 h 57 m a.m.,l.m.t.,I set off 40°06'N.,on the
	lat.arc;15°11'N.,on the decl.arc;and determine a meridian
	with the solar,a the cor.of secs.21,22,27,and 28.
	Thence I run
	N. bet.secs.21 and 22.
	Over mountainous land;through dense sage brush.
	Desc.
2.00	Bottom of hollow,50 ft.below sec.cor.,course NE .
	Asc.
15.00	Top of ridge,200 ft.above hollow,bears N.30°E.and S.30°W.
	Desc.
40.00	Point 300 ft.below ridge,
	Set an iron post.3 ft.long,1 in.in dia.,12 ins.in the
	ground,to solid rock,and surrounded by mound of stone,for
	¼ sec.cor..mkd.on brass cap ¼ S 21 in W half;and S 22 in E
	half;from which
	A cedar,8 ins.dia.,bears N.75°30'E.,165 lks.
	dist..mkd.¼ S 22 B T.
	Sedar,6 ins.dia.,bears N.59°30'W.,129 lks.
	dist..mkd.¼ S 21 B T.
40.50	Enter scattering timber,bears E.and W.
41.90	Bottom of hollow,4[illegible] ft.below ridge,course N.60°W.
	Asc.
55.00	Top of ridge,200 ft.above hollow,bears N.60°W.and S.60°E.
	Desc.abruptly.

Sub.T.8 S.,R.1 E.-Continued.

Chains

61.00 Bottom of canon,300 ft.below ridge,course N.80°W.

Asc.abruptly.

69.00 Top of ridge,200 ft.above canon,bears E.and W.

Desc.

73.20 Bottom of hollow,100 ft.below ridge,course W.

Asc.

77.00 Top of ridge,130 ft.above hollow,bears N.80°E.and S.80°W

Desc.

80.00 Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.15,16,21,and 22,mkd.on brass cap

T 8 S S 16 in NW.

R 1 E S 15 inNE.

S 22 in SE.;and

S 21 in SW.quandrants;and raise a mound of sto

2 ft.base,1½ ft.high,W.of cor.

Land,mountainous.

Soil,gravelly and rocky;2nd and 4th rate.

Subsoil,rock.

Timber,cedar .

Undergrowth,sage brush.

Mountainous land,or land covered with dense undergrowth

80.00 chs.

May 2,1911:At this cor.I set off 15°13'N.,on the decl. arc;and at 11 h 57 m a.m.,l.m.t.,I observe the sun on t meridian,the resulting lat.is 40°07'N.,which is the proper lat.nearly.

East,on a random line bet.secs.15 and 22.

40.00 Set temp.¼ sec.cor.

78.32 Intersect W.bdy.of Spanish Fork Indian Reservation,5 lks S.of the closing cor.of fracl.secs.15 and 22.

Thence I run

S.89°58'W.,on a true line bet.secs.15 and 22.

Sub.T.8 S.,R.1 E.-Continued.

Chains	
	Over molling foot hills through dense sage brush
	Asc.gently.
1.45	Old road,bears NE.and SW.
2.70	Same road,bears NW and SE.
5.05	Same road,bears NE and SW.
8.30	Foot of mountains,bears N.20°W.and S.20°E.
	Asc.
23.30	Begin more abrupt ascent,bears N.20°W.and S.20°E.
31.00	Top of ridge,500 ft.above cor.,bears N.30°E.and S.30°W.
	Continue ascent.
34.30	Head of swale,course NE.
	Asc.
38.32	Set an iron post,3 ft.long,1 inli dia.24 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 15 in N half and S 22 in S half;and raise a mound of stone,2 ft.base, 1½ ft.high,N.of cor.
43.30	Quartzite ledge,5 ft.high,bears N.and S.
	Desc.gently.
47.30	Head of hollow,100 ft.below ledge,course NE.
	Asc.
49.30	Top of divide ridge,800 ft.above closing cor.,bears N.20°E and S.20°W.
	Desc.
59.30	Head of hollow,100 ft.below ridge,course S.65°W.
	Asc.
66.30	Top of ridge,60 ft.above hollow,bears N.70°E.and S.70°W.
	Desc.
78.32	The cor.of secs.15,16,21,and 22.
	Land,mountainous and rolling
	Soil,gravelly and rocky;2nd and 4th rate.about 2 ft.deep.
	No timber.
	Undergrowth,sage brush.
	Good grass
	Mountainous land,or land covered with dense undergrowth, 78.32 chs.
	May 2,1911.

Chains	
	ooo
	May 3,1911:At 7 h 57 m a.m.,l.m.t.,I set off 40°07'N.,on the lat.arc;15°29'N.,on the decl.arc;and determine a meridian with the solar;at the cor.of secs.15,16,21,and
	Thence I run-
	N.0°06'W.,bet.secs.15 and 16.
	Over mountainous land;through dense sage brush
	Desc.
2.40	Bottom of hollow,80 ft.below sec.cor.,course S.65°W.,
	asc.
11.60	Top of ridge,150 ft.above hollow,bears E.and W.
	Desc.
20.00	Head of hollow,200 ft.below ridge,course NE.
	Asc.
35.00	Begin more abrupt descent,bears N.60°W.and S.60°E.
40.00	Foot of abrupt descent,bears N.60°W.and S.60°E.
	Set an iron post,3 ft.long,1 in.in dia.,24 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 16 in W half and S 15 in E half;and raise a mound of stone,2 ft.base 1½ ftlhigh,W.of cor.
	Desc.gradually.
57.60	Old road,bears N.80°E.and S.80°W. in north edge of broad hollow,course W.
	Asc.
68.00	Top of ridge,80 ft.above road,bears E.and W.
	Desc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.9,10,15,and 16,mkd.on brass cap
	T 8 S S 9 in NW.
	R 1 E S 10 in NE.
	S 15 in SE.; and
	S 16 in SW.quadrants;and raise a mound of ston
	2 ft.base,1½ ft.high,W.of cor.
	Land,mountainous

Chains	
	Soil,gravelly and rocky from 1 to 2 ft.deep,2nd and 4th ra rate.Subsoil rocky.
	No timber.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,
	80.00 chs.
	May 3,1911:At this cor.I set off 15°31'N.,on the decl. arc;and at 11 h 57 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 40°08'n.,which is the proper lat.nearly.
	N.89°58'E.,on a randon line bet.secs.10 and 15.
40.00	Set temp.¼ sec.cor.
78.60	Intersect W.bdy.of Spanish fork Indian Reservation,46 lks. S.of the closing cor.of fracl.secs.10 and 15,heretofore described.
	Thence I run
	S.89°59'W. ,on a true line bet.secs.10 and 15.
	Over rolling land;through dense undergrowth.
	Asc.
14.00	Old road,bears N.15°E.and S.15°W.
	Leave valley and begin ascent of mountain,bears N.15°E.and S.15°W.
27.00	Top of abrupt ascent,bears N.20°E.and S.20°W.
29.00	Top of divide ridge,250 ft.above closing cor.,bears N. 20°E.and S.20°W.
	Desc.abruptly.
38.60	Set an iron post,3 ft.long;1 in.in dia.,24 ins.in the ground,for ½ sec.cor..mkd.on brass cap ¼ S 10 in N half and S 15 in S half; and raise a mound of stone, 2 ft. base,1½ ft.high,N.of cor.
40.60	Foot of abrupt descent;bears N.and S.

Sub.T.8 S.,R.1 E.-Continued.

Chains	
	Desc.gently through broad hollow.
60.40	Wash,200 lks.wide,20 ft.deep,in bottom of broad hollow, 150 ft.below ridge,course N.
	Asc.gradually.
68.60	Wash,50 lks.wide,20 ft.deep,course N. Ascent steeper.
78.60	The cor.of secs.9,10,15,and 16.
	Land,mountainous and rolling .
	Soil,clay and gravelly loam;from 1 to 3 ft.deep,2nd rate subsoil,gravel.
	No timber.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,or land,covered with dense undergrowth, 60 chs.

May 3,1911.

May 4,1911:At 7 h 57 m a.m.,l.m.t.,I set off 40°08'N., on the lat.arc;15°47'N.,on the decl.arc;and determine a meridian,with the solar,at the cor.of secs.9,10,15,and 16.

Thence I run

N.0°01'W.,bet.secs.9 and 10.

Over mountainous land;through dense sage brush;

Desc.

5.00	Foot of mountain,100 ft.below sec.cor.,bears N.80°W.and 80°E.
	Desc.gently over rolling hills.
40.00	Set an iron post,3 ft.long,1 in.in dia.,24 ins.in the ground,for ¼ sec.cor.,mkd.¼ S 9 in W half;and S 10 in E half;of brass cap;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.
51.40	Wash,10 lks.wide,3 ft.deep,course NW.
55.50	County road,bears N.60°E.and S.40°W.

Sub.T.8 S.,R.1 E.-Continued.

Chains	
57.80	To south shore of Utah Lake.
	Set an iron post,3 ft.long,1 in.in dia.,24 ins.in the ground,for meander cor.of fracl.secs.9 and 10 ,mkd.on brass cap T8 S R 1 E in N half;M C S 10 in SE.;and S 9 in SW quadrants;and raise a mound of stone,2 ft.base, 1½ ft.high,S.of cor.
	Land,mountainous and rolling .
	Soil,clay and gravelly loam;about 3 ft.deep,subsoil gravel.
	No timber.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 57.80 chs.
	From the closing cor.of fracl.secs.3 and 10,on W.bdy.of Spanish Fork Indian Reservation,heretofore described.
	I run
	S.89°39'W.,on a true line bet.secs.3 and 10.
	Over rolling mountainous land;through dense sage brush. and boulders.
	Asc.gradually.
4.00	Top of divide ridge,10 ft.above sec.cor.,bears N.20°E. and S.20°W.
	Desc.
12.00	Foot of descent,bears NE and SW.
	Desc.gradually over rolling land.
27.50	County road,bears N.60°E.and S.60°W.
29.00	To South shore of Utah Lake.
	Set an iron post,3 ft.long,1 in.in dia.,24 ins.in the ground,for meander cor.of fracl.secs.3 and 10,mkd.on brass cap T 8 S R 1 E in N half;M C S 10 in SE.;and S 3 in NE. quadrants;and raise a mound of stone,2 ft.base,1½ ft. high,E.of cor.

Sub.T.6 S.,R.1 E.-Continued.

Chains

Land,mountainous and rolling .

Soil,gravelly and clay loam about 3 ft.deep,subsoil,clay and gravel.

No timber.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous land,or land covered with dense sage brush,

29.00 chs.

May 4,1911:At this cor.I set off 15°49'N.,on the decl. arc;and at 11 h 57 m a.m.,l.m.t.,I observe the sun on the meridia ,the resulting lat.is 40°09'N.,which is the proper lat.nearly.

12;30 P.M.May 4,1911.

May 6,1911:At 7 h 57 m a.m.,l.m.t.,I set off 40°05'N.,on the lat.arc;16°21'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.27,28,33,and 34.

Note:Knowing that the south bdy.of the Tp.is out of limits in alignment and measurement I decide to run a sectional correction line from the cor.of secs.27,28,33, and 34.

Therefore I run

West,on a sectional correction line bet.secs.28 and 33.

Over mountainous land;through dense sage brush and scattering timber.

Asc.

5.00 Head of hollow,100 ft.below sec.cor.,course S.30°W.

Asc.

11.00 Top of spur,50 ft.above hollow,bearsN.30°E.and S.30°W.

Desc.

35.00 Head of hollow,400 ft.below spur,course S.20°W.

Asc.

39.00 Top of spur,50 ft.above hollow,bears NE and SW.

Desc.

Sub.T.8 S.,R.1 E.-Continued.

Chains	
40.00	Set an iron post,3 ft.long,1 in.in dia.,24 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 28 in N half and S 33 in S half;from which
	A cedar,5 ins.dia.,bears N.18°30'W.,91 lks. dist..mkd.¼ S 28 B T.
	A cedar,6 ins.dia.,bears S.28°30'E.,89 lks. dist..mkd.¼ S 33 B T.
55.00	Leave timber,bears NW and SE.
62.20	Bottom of hollow,500 ft.below ridge,course N.80°W.
	Asc.
70.00	Bend in same hollow,course NW.
	Asc.
73.00	Top of spur,30 ft.above hollow,bears N.70°W.and S.70°E.
	Desc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.28,29,32,and 33,mkd.on brass cap
	T 8 S S 29 in NW.
	R 1 E S 28 in NE.
	S 33 in SE.;and
	S 32 in SW.quadrants;and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
	Land,mountainous
	Soil,gravelly;3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.00 chs.
	May 6,1911:At this cor.I set off 16°24'N.,on the decl. arc;and at 11 h 57 m a.m.,l.m.t.,I observethe sun on the meridian,the resulting lat.is 40°05'N.,which is the proper lat.nearly. May 6,1911.12.30 p.m.
	May 8,1911:At 7 h 56 m a.m.,l.m.t.,I set off 40°05'N.,on the lat.arc;16°55'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.28,29,32,and 33.
	Thence I run.

Sub.T.8 S.,R.1 E.-Continued.

Chains	
	West ,on a sectional correction line bet.secs.29 and 32.
	Over mountainous land;through dense sage brush.
	Desc.abruptly.
8.00	Foot of mountain,bears N.and S.,100 ft.below cor.
	Desc.over foot hills.
14.50	Wash,12 lks.wide,3 ft.deep,course S.80°W.
	Asc.
20.00	Leave foot hills,and enter valley,bears N.and S.
	Descent.
27.20	Wash,12 lks.wide,3 ft.deep,course N.80°W.
32.00	Wash,10 lks.wide,3 ft.deep,course NW.
40.00	Set an iron post,3 ft.long,1 in.in dia.,24 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 29 in N half and S 32 in S half;and raise a moundof stone,2 ft.base,1½ ft.high,N.if cor.
	Note:From this cor.the SE.cor.of O.Ingle VanAusdal's hous bears N.44°30'W.about 28.00 chs.dist.
	A tent claimed by Cornelius J.VanAusdal bears N.57°W., about 39.00 chs.dist.
45.20	Wash,3 lks.wide,1 ft.deep,course N.60°W.
49.00	Wash,8 lks.wide,2 ft.deep,course N.80°W.
51.15	County road,bears N.10°E.and S.10°W.
51.30	Wire fence,bears N.10°E.and S.10°W.
	Enter enclosure.
55.00	Wash,5 lks.wide,1 ft.deep,course N.80°W.
60.00	Old road,bears N.and S.
60.40	Enter ploughed land,bears N.8°E.and S.8°W.
61.90	Leave ploughed land,bears N.8°E.and S.8°W.
66.50	Enter alkali flat,bears N.and S.
68.60	Old wagon road,bears N.and S.
75.70	To east shore of Utah Lake at high water mark.
	Note:The present water level is about 6.00 chs.West.
	Set an iron post,3 ft.long,1 in.in dia.,24 ins.in the ground,for meander cor.of fracl.secs.29 and 32,mkd.on brass cap T 8 S R 1 E in N half.

Sub.T.8 S.,R.1 E.-Continued.

Chains M C S 29 in NE.

S 32 in SE.quadrants;and raise a mound of stone, 2 ft.base,1½ ft.high,E of cor.

Note:From this cor.the SE cor.of O.Ingle VanAusdal's house bears N.41°38'E.,

The SW cor.of Cornielous J.VanAusdal's tent bears N.10° 30'E.

The NW.cor.of James VanAusdal's house bears S.24°17'E.,

Land,mountainous and level.

Soil,gravelly and clay loam;2nd rate.about 2 to 6 ft.deep.

Subsoil gravel.

No timber.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth,

65.00 chs.

10 a.m.May 8,1911.

May 6,1911: 1 p.m.,from the cor.of secs.28,29,32,and 33.

I run

S.0°02'E.,on a true line bet.secs.32 and 33.

Over mountainous land;through dense sage brush.

Asc.

2.70 Top of ridge,60 ft.above hollow,bears N.80°E.and S.80°W.

Desc.

7.70 Bottom of hollow,80 ft.below ridge,course S.80°W.

Asc.

10.30 Top of ridge,40 ft.above hollow,bears N.55°E.and S.55°W.

Desc.

13.00 Bottom of canon,40 ft.below ridge,course S.60°W.

Asc.

14.00 Drag road,bears N.80°E.and S.60°W.

16.50 Top of ridge,30 ft.above hollow,bears E.and W.

Desc.

19.30 Bottom of hollow,20 ft.below ridge,course W.

Asc.

Sub.T.8 S.,R.1 E.-Continued.

Chains

24.00 Top of ridge,50 ft.above hollow,bears E.and W.

Desc.

29.00 Drag road,in bottom of canon,100 ft.below ridge,course of canon,N.40°W.,comes from South.

Asc.

30.00 Leave canon and drag road,bears N.and S.30°W.

Asc.

30.30 Enter scattering cedar timber,bears NE and SW.

37.00 Top of ridge,150 ft.above canon,bears E.and W.

Desc.

39.25 Drag road in bottom of same canon,80 ft.below ridge course N.80°W.

Asc.abruptly over ledges.

40.00 Foot of rock slide,bears E.and W.

Set an iron post,3 ft.long,1 in.in dia.,24 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 32 in W half and S 33 in E half;from which

A cedar,6 ins.dia.,bears N.75°E.,196 lks. dist..mkd.¼ S 33 B T.

A cedar,4 ins.dia.,bears N.62°15'W.,216 lks. dist..mkd.¼ S 32 B T.

82.05 Point 1200 ft.above canon.

Intersect S.bdy.of Tp.,3.05 chs.S.88°44'W.,of the cor. of secs.4 and 5,heretofore described.

Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for closing cor.of secs.32 and 33,mkd.on brass ca

T 9 S R 1 E C C S 4 S 5 in S half.

T 8 S S 32 in NW.;and

R 1 E S 33 in NE.quadrants;from which

A cedar,10 ins.dia.,bears N.54°15'E.,57 lks. dist..mkd.T 8 S R 1 E S 33 B T.

A cedar.12 ins.dia.,bears N.52°30'W.,118 lks. dist..mkd.T 8 S R 1 E S 32 B T.

Land,mountainous very rough.

Soil,gravelly and rocky;2nd and 4th rate.

Sub.T.8 S.,R.1 E.-Continued.

Chains	
	Timber,cedar.
	Undergrowth,sage brusg.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,
	82.05 chs.
	May 6,1911.
	—
	May 8,1911:At 10;30 a.m.,From the cor.of secs.28,29,32,
	and 33.
	I run
	North,bet.secs.28 and 29.
	Over mountainous land;through dense sage brush.
	Desc.
6.00	Bottom of canon,100 ft.below sec.cor.,course N.80° W.
	Asc.
15.00	Top of ridge,80 ft.above canon,bears N.80°W.and S.80°E.
	Desc.
22.75	Old drag road in mouth of canon,60 ft.below ridge,course
	NW.
24.10	Wash,10 lks.wide,2 ft.deep,course NW.
29.00	Wash,10 lks.wide,2 ft.deep,course W.
34.50	Top of ridge,40 ft.above wash,bears E.and W.
	Desc.
35.50	Bottom of hollow,40 ft.below ridge,course W.
	Asc.
38.50	Top of ridge,50 ft.above hol ow,bears E.and W.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,24 ins.in the
	ground,for ¼ sec.cor..mkd.on brass cap ¼ S 29 in W half
	and S 28 in E half;and raise a mound of stone,2 ft.base,
	1½ ft.high,W.of cor.
46.80	Wash,10 lks.wide,3 ft.deep,course S.60°W.
	Asc.

Sub.T.8 S.,R.1 E.-Continued.

Chains

49.60 Top of ridge,20 ft.above wash,bears E.and W.

Desc.

51.80 Bottom of holow20 ft.below ridge,course W;

Asc.

54.00 Top of ridge,30 ft.above hollow,bears E.and W.

Desc.

69.30 Wash,12 lks.wide,2 ft.deep,course W.

Foot of mountain,30 ft.below ridge,bears NE and S.30°W.

Desc.over rolling hills.

72.90 Wash,10 lks.wide,2 ft.deep,course W.

78.90 Wash,12 lks.wide,2 ft.deep,course W.

80.00 Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.20,21,28,and 29,mkd.on brass cap

T 8 S S 20 in NW.

R 1 E S 21 in NE.

S 28 in SE.;and

S 29 in SW.quadrants;and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.

Land,mountainous and rolling.

Soil,gravelly;2nd rate from 1 to 3 ft deep.Subsoilrocky.

No timber.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous landlor land covered with dense undergrowth, 80.00 chs.

May 8,1911:At this cor.I set off 16°57'N.,on the decl. arc;and at 11 h 57 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 40°06'N.,which is the proper lat.nearly.

East,on a random line bet.secs.21 and 28.

40.00 Set temp.¼ sec.cor.

79.88 Intersect N.and S.line,7 lks.N.of the cor.of secs.21,22,

Chains	
	27,and 28.
	Thence I run
	N.89°57'W.,on a true line bet.secs.21 and 28.
	Over mountainous land;through dense sage brush.
	Desc.
1.55	Bottom of hollow,40 ft.below sec.cor.,course NE.
	Asc.
6.50	Top of ridge,300 ft.above hollow,bears N.and S.
	Desc.
26.50	Head of hollow,200 ft.below ridge,course N.70°W.
	Enter scattering cedar timber,bears N.and S.
	Continue descent.
37.00	Top of ridge,250 ft.below head of hollow,bears N.70°W. and S.70°E.
	Desc.abruptly.
39.94	Set an iron post,3 ft.long,1 in.in dia.,24 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 21 in N half and S 28 in S half;from which
	A cedar,8 ins.dia.,bears N.8°15'W.,81 lks. dist.mkd.¼ S 21 B T.
	A cedar,10 ins.dia,bears S.26°30'E.,166 lks. dist.mkd.¼ S 28 B T.
46.00	Bottom of hollow,300 ft.below ridge,course SW.
	Desc.
50.00	Leave timber,bears N.and S.
52.50	Limestone ledge,15 ft.high,bears N.and S.
54.80	Bottom of canon,200 ft.below last hollow,course N.70°W.
	Asc.
56.00	Top of spur,20 ft.above canon,bears N.15°W.and S15°E.
	Desc.
64.00	Wash,15 lks.wide,3 ft.edeep,course N 20°W.
	Foot of mountain,bears N.20°W.and S.20°E.
	Enter rolling hills.
79.88	The cor.of secs.20,21,28,and 29.
	,Land,mountainous. and rolling.

Sub.T.8 S.,R.1 E.-Continued.

Chains	
	Soil,gravelly and rocky;2nd and 4th rate.Subsoil,rocky.
	Timber,cedar.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous landor land covered with dense undergrowth,
	79.88 chs.
	May 8,1911.
	May 9,1911:At 7 h 56 m a.m.,l.m.t.,I setoff 40°06'N.,on
	lat.arc;17°11'N.,on the decl.arc;and determine a meridia
	with the solar,at the cor.of secs.20,21,28,and 29.
	Thence I run
	West,on a true line bet.secs.20 and 29.
	Over rolling foot hills through dense sage brush.
	Desc.
1.30	Old road,bears N.10°E.and S.20°W.
11.00	Wash,10 lks.wide,2 ft.deep,course N.20°W.
16.10	Wash,6 lks wide,1 ft.deep,course NW.
23.23	Wash,6 lks.wide,2 ft.deep,course NW.
30.00	East edge of ploughed land is 30 lks.north,
37.65	County road,bears N.40°E.and S.40°W.
	The west edge of ploughed strip 2 rods wide bears N.80 l
	dist.
40.00	Set an iron post,3 ft.long,1 in.in dia.,24 ins.in the
	ground,for ¼ sec.cor..mkd.on brass cap ¼ S 20 in N half
	and S 29 in S half;and raise a mound of stone,2 ft.base
	1½ ft.high,N.of cor.
	Note:From this cor.a house claimed by Geore S.VanAusdal
	bears N.0°55'W.,about 50 chs.dist.
	The southwest cor.of a tract of ploughed land bears N.1
	E.about 40.00 chs.dist.
	The SE cor.of a fence bears N.29°E.,about 41.00 chs.
	dist.

Sub.T.8 S.,R.1 E.-Continued.

Chains	
43.20	To Rocky shore of Utah Lake,20 ft.above water.Present water surface 100 lks.west.
	Set an iron post,3 ft.long,1 in.in dia.,24 ins.in the ground,for meander cor.of fracl.secs.20 and 29,mkd.on brass cap T 8 S R 1 E in N half.S 20 in NE.;and M C S.29 in SE quadrants;and raise a mound of stone,3 ft.base,2 ft. high,E.of cor.
	Land,rolling.
	Soil,gravelly loam;2nd rate.
	No timber.
	Undergrowth,sage brush.
	Good grass for grazing.
	Land covered with dense undergrowth,43.20 chs.

	No.0°01'W.,bet.secs.20 and 21.
	Over rolling land;through dense sage brush.
	Desc.
4.00	Old road,bears N.15°E.and S.15°W.
18.00	Wash,9 lks.wide,1 ft.deep,course N.80°W.
26.30	Wash,10 lks.wide,6 ft.deep,course W.
29.00	Top of small spur,bears E.and W.
	Desc.
37.50	Wash,9 lks.wide,1 ft.deep,course W.
	Asc.
39.80	Wash,8 lks.wide,2 ft.deep, course N.80°W.
40.00	Set an iron post,3 ft.long,1 in.in dia.,24 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 21 in E half. and S 20 in W half;and raise a mound of stone,2 ft.base, 1½ ft.high,W.of cor.
49.20	Wash,15 lks.wide,3 ft.deep,course N.80°W.
53.90	Top of ridge,20 ft.above wash,bears E.and W.
	Desc.
57.75	Bottom of hollow,30 ft.below ridge,course W.

Sub.T.8 S.,R.1 E.-Continued.

Chains	
	Asc.
62.50	Wash,8 lks.wide,1 ft.deep,course W.
68.80	Wash,15 lks.wide,3 ft.deep,course W.
75.00	Wash,6 lks.wide,1 ft.deep,course W.
78.00	Top of small spur,bears E.and W.
	Desc.gently.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.16,17,20,and 21,mkd.on brass cap
	T 8 S S 17 in NW.
	R 1 E S 16 in NE.
	S 21 in SE.;and
	S 20 in SW.quadrants;and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.
	Land,rolling.
	Soil,gravelly loam;2nd rate.about 2 ft. deep.Subsoil, rocky and clay.
	No timber.
	Undergrowth,sage brush.
	Good grass for grazing.
	Land covered with dense undergrowth,80.00 chs.
	May 9,1911:At this cor.I set off 17°13'N.,on the decl. arc;and at 11 h 56 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 40°07'N.,which is the proper lat.nearly.

	S.89°57'E.,on a random line bet.secs.16 and 21.
40.00	Set a temp. ¼ sec.cor.
79.90	Intersect N.and S.line,10 lks.N.of the cor.of secs.15,16, 21,and 22.
	Thence I run
	N.89°53'W.,on a true line bet.secs.16 and 21.
	Over rough mountainous land;through dense undergrowth.
	Desc.
2.60	Bottom of hollow,60 ft.below sec.cor.,course SW.
	Asc.

Sub.T.8 S.,R.1 E.-Continued.

Chains	
10.00	Top of ridge,200 ft. above hollow,bears N.and S.
	Desc.
13.00	Bottom of hollow,100 ft.below ridge,course S.
	Asc.
16.00	Top of ridge,140 ft.above hollow,bears N.and S
	Desc.
27.70	Bottom of hollow,200 ft.below ridge,course S.
	Asc.
30.00	Top of spur,60 ft.above hollow,bears N.and S.
	Desc.
35.00	Bottom of hollow,50 ft.below ridge,course S.
	Asc.
39.95	Set an iron post,3 ft.long,1 in.in dia.,24 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 16 in N half and S 21 in S half;and raise a mound of stone,2 ft.base, 1½ ft.high,N.of cor.
42.20	Top of ridge,40 ft.above hollow,bears NE and SW.
	Desc.
62.90	Old road,bears N.10°W.and S.10°E.
72.00	Begin steeper descent,bears N.and S.
74.00	Foot of mountain,bears N.and S.
	Thence over rolling ground.
79.90	The cor.of secs.16,17,20,and 21.
	400 ft.below ridge.
	Land,mountainous and rolling .
	Soil,gravelly and rocky;2nd and 4th rate.
	No timber.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,
	79.90 chs.

West,on a true line bet.secs.17 and 20.

Sub.T.6 S.,R.1 E.-Continued.

Chains

Over rolling land;through dense sage brush.

Dense.

8.55 Enter ploughed land,bears N.68°W.and S.68°E.

9.90 Leave ploughed land,bears same.

10.00 County road,bears N.20°E.and S.20°W.

12.95 Fence,bears N.10°E.and S.10°W.

Enter enclosure.

16.85 Old road,bears NE and SW.

30.20 To East shore of Utah Lake.

Set an iron post,3 ft.long,1 in.in dia.,24 ins.in the ground,for meander cor.of fracl.secs.17 and 20,mkd.on brass cap T 6 S R 1 E in N half.S 17 in NE.and M C S. 20 in SE quadrants;and raise a mound of stone,2 ft.base, 1½ ft.high,E of cor.

Note:From this cor.the NW cor.of Robert A.VanAusdal's house bears S.10°W.4.04 chs.dist.

Land,rolling.

Soilclay and gravelly loam;2nd rate.from 2 to 3 ft. deep.

Undergrowth,sage brush.

Land,covered with dense undergrowth,28.85 chs.

May 9,1911.

May 10,1911:At 7 h 56 m a.m.,l.m.t.,I set off 40°07'N., on the lat.arc;17°27'N.,on the decl.arc;and determine a meridian,with the solar,at the cor.of secs.16,17,20,and 21.

Thence I run

N.0°37'W.,bet.secs.16 and 17.

Over rolling land;through dense undergrowth.

Dense.

2.10 Wash,12 lks.wide,2 ft.deep,course W.

3.70 Wash,9 lks.wide,1 ft.deep,course S.80°W.

11.00 Wash,6 lks.wide,1 ft.deep,course S.60°W.

Sub.T.8 S.,R.1 E.-Continued.

Chains	
13.50	Top of small ridge,bears N.60°E.and S.60°W.
	Desc.
18.50	Wash,10 lks.wide,1 ft.deep,course N.30°W.
20.00	Top of small ridge,bears E.and W.
	Desc.
28.30	County road,bears N.20°E.and S.20°W.
31.65	Wash,12 lks.wide,2 ft.deep,course N.80°W.
35.65	Enter ploughed land,bears N.80°W.and S.80°E.
36.00	Leave ploughed land,bears same.
37.00	Wash,10 lks.wide,2 ft.deep,course N.70°W.
40.00	Set an iron post,3 ft.long,1 in in dia.,24 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 16 in E half and S 17 in W half;and raise a mound of stone,2 ft.base, 1½ ft.high,W.of cor.
40.35	Old road,bears N.40°E.and S.40°W.
44.75	Wash,15 lks.wide,4 ft.deep,course W.
47.51	To East shore of Utah Lake.
	Set an iron post,3 ft.long,1 in.in dia.,24 ins.in the ground,for meander cor.of fracl.secs.16 and 17,mkd.on brass cap T 8 S R 1 E in N half;M C S 16 in SE.;and S 17 in SW.quadrants;and raise a mound of stone,2 ft.base, 1½ ft.high,S.of cor.
	Land,rolling .
	Soil,clay and gravelly loam;2nd rate.
	No timber.
	Undergrowth,sage brush.
	Good grass for grazing.
	Land,covered with dense undergrowth,47.16 chs.
	May 10,1911:At this cor.I set off 17°29'N. ,on the decl. arc;and at 11 h 56 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 40°07'N.,which is the proper lat.nearly.

Sub.T.8 S.,R.1 E.-Continued.

Chains	
	From the cor.of secs.9,10,15,and 16.
	I run
	N.89°53'W.,on a true linebet.secs.9 and 16.
	Over mou tainous land;through dense undergrowth.
	Asc.
11.00	Top of spur,100 ft.above sec.cor.,bears N.and S.
	Desc.
13.50	Limestone ledge,10 ft.high,bears NE and SW.
	Desc.abruptly.
15.00	Foot of ledges,bears NE and SW.
19.00	Foot of steep descent,bears N.20°E.and S.20°W.
	Thence over rolling land.
39.45	County road,bears N.15°E.and S.15 °W.
40.00	Set an iron post,3 ft.long,1 in.in dia.,24 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 9 in N half and S 16 in S half;and raise a mound of stone,2 ft.base, 1½ ft.high,N.of cor.
42.40	Enter ploughed land,bears N.35°E.and S.35°W.
53.00	Leave ploughed land,bears N.35°E.and S.35°W.
59.65	Old road,bears N.20°E.and S.20°W.
66.60	To east shore of Utah Lake.
	Set an iron post,3 ft.long,1 in.in dia.,24 ins.in the ground,for meander cor.of fracl.secs.9 and 16,mkd.on bra cap T 8 S R 1 E in N half.S.9 in NE.and M C S 16 in SE. quadrants;and raise a mound of stone,2 ft.base,1½ ft. high,E.of cor.
	Land,mountainous and rolling.
	Soil,gravelly loam and clay;2nd rate.
	No timber.
	Undergrowth,sage brush.
	Mountainous land,or land covered with dense undergrowth, 56.00 chs.

May 10,1911.

Meanders in T.8 S.,R.1 E.

Meanders of east shore of Utah Lake .

May 10,1911:At 2 h 56 m p.m.,l.m.t.,I set off 40°04'N., on the lat.arc;17°31'N.,on the decl.arc;and determine a meridan with the solar,at the meander cor.of secs.5 and 32 on S bdy.of Tp.,heretofore described.

Thence I run with meanders in sec.32.

Over level land;through scattering sage brush. Rocky beach.

N.17°E.19.00 chs.At 13.70 chs.Old road bears N.and S.

At 19.00 chs.Bank 4 ft.high.Thence along sandy and gravelly beach.

N.30°W.,23.00 chs.At 5.28 chs.Wire fence,bears N.55°E.and S.55°W.Enter enclosure.

Thence along clay beach

N.25°W.24.00 chs.At 5.00 chs.The remains of an old shed bears NE 2.00 chs.dist.

At 20.00 chs.point from which James Van-Ausdal's house bears S.75°30'E.,5.27 chs. dist.His stable bears East 4.03 chs.dist.

At 22.45 Old road,bears N.80°W.and S.80°E.

At end of course enter alkali flat,bears N.and S.thence through scattering grease-woods.

N.14°15'W.24.26 chs.to Meander cor.of fracl.secs.29 and 32.

Soil gravelly sandy and clay loam.

Undergrowth scattering sage brush and greasewood.

No timber.

Thence with meanders in sec.29.

Over sandy and gravelly beach;through scattering sage brush

N.10°15'W. 7.30 chs.

N.11°E. 15.00 chs.

N.35°E., 14.00 chs.At 6.40 chs.enter ploughed land, bears N.54°W.and S.54°E. At 7.10 chs

Meanders in T.8 S.,R.1 E.-Continued.

Leave ploughed land,bears same.

N. Thence along rocky beach.

N.22°45'E.18.00 chs. At 3.15 chs.Fence bears N.52°W.and S. 52°E.

N.28°E.34.00.chs. To Meander cor.of fracl.secs.20 and 29. bank 20 ft.high.

Land,nearly level.

Soil,sandy,gravelly and rocky;2nd and 3rd rate.

Undergrowth,scattering sage.brush.

May.10,1911.

May 11,1911:At 7 h 56 m a.m.,l.m.t.,I set off 40°06'N. on the lat.arc;17°43'N.,on the decl.arc;and determine a meridian with the solar,at the meander cor.of fracl. secs.20 and 29.

Thence I run with meanders in sec.20.

Along rocky beach through scattering sage and rabbit brush.

N.18°3[illegible]'E.,23.00 chs.Bank 10 ft.high,rocky.

N.22°W.,23.00 chs. At 2.80 chs.Wire fence,bears S.78°E.

N.22°30'E. 10.00 chs.At end of course the NW.cor.of a two room new frame house claimed by Geo.S.VanAusdal,bears S.0°30'E.,2.55 chs.There is a small lumber shack 10 f N.of house.The NW.cor.of a tract of ploughed land,bears N.85°E.,about 10. .00 chs.dist.

N.4°00'E.,10.00 chs.

N.20°30'E.17.00 chs.

N.66°45'E.4.10 chs. To the meander cor.of fracl.secs.17 and 20.

Land,level

Soil,rocky.

Meanders of T.8 S.,R.1 E.-Continued.

Undergrowth,sage and rabbit brush. 1-07-10

Thence I run with meanders in sec.17.

Along rocky beach through scattering sage brush .

N.47°E.,34.00 chs.At 20.00 chs.West end of fence,which bears S.60°E.

N.1°30'E.16.00 chs.At the end of course sloping bank 15 ft.high.

N.30°15'E. 9.60 chs.To meander cor.of fracl.secs.16 and 17.

Land,level.

Soil,rocky;

Undergrowth,sage brush.

May 11,1911At this cor.I set off 17°45'N.,on the decl. arc;and at 11 h 56 m a.m.,l.m.t.,I observe the sun on the meridianthe resulting lat.is 40°07'N.,which is the proper lat.nearly. 59-60

Thence with meanders in sec.16 .

Over level land;through scattering sage,and rabbit brush.

Beach rocky.

N.28°E.14.00 chs.

N.8°30'E.,16.00 chs.

N.45°E.,6.00 chs.To meander cor.of fracl.secs.9 and 16.

Land,level.

Soil,rocky.

Undergrowth,sage brush and rabbit brush. 36-00

Thence with meanders in sec.9.

Over level land;through scattering sage and rabbit brush.

Rocky beach.

Meanders in T.8 S.,R.1 E.-Continued.

N.34°30'E.,15.00 chs.Bank 10 ft.high.

N.50°00'E.,18.00 chs.Rocky bank 8 ft.high.

N.66°E. 24.00 chs. Sloping rocky bank 8 ft.high.

N.27°30'E. 11.00 chs.

N.50°30E. 22.50 chs.To meander cor.of fracl.secs.9 and 1

Land,level.

Soil,sandy and rocky;

Undergrowth,sage and rabbit brush.

1-10-50

May 11,1911.

May 4,1911:2 p.m.,From the meander cor.of fracl.secs. 9 and 10.

I run with meanders in sec.10.

Over level land;through dense sage brush.

Rocky beach.

N.61°30'E.,10 .00 chs.

N.71°E.,15.00 chs.Bank 8 ft.high.

N.63°30'E.26.00 chs.Sloping rocky bank 8 ft.high.

N.78°15'E. 4.20 chs.To meander cor.of racl.secs.3 and 10

Land,level.

Soil,gravelly and rocky.

Undergrowth,sage brush.

55-2-0

Thence with meanders in sec.3.

Over level land;through scattering sage and rabbit brush

Rocky beach.

N.60°45'E.,29.00 chs.Sloping rocky bank 15.ft.high.

N.70.30°E.3.96 chs.To meander cor.of fracl.sec.3,Also th

NW cor.of the Spanish Fork Indian Re

vation bdy.

Rocky bank 5 ft.high.

Meanders in T.8 S.,R.1 E.-Continued.

Land,level.

Soil,rocky and gravelly;.

Undergrowth,sage brush and rabbit brush. 32-96

May 4,1911.

April 28,1911;At 4 p.m.From the meander cor.of fracl.secs.2 and 11. heretofore described.

Thence I run with meanders in sec.2(Retracement).

N.19°W.6.00 chs.At 3.50 chs.the SE.cor.of an old deserted rock house bears West one link dist.

N.58°42'W.16.05 chs.To the meander cor.of fracl.secs.2 and 3,heretofore described.

Land,level. 22-03

Soil,rocky;

April 28,1911.

General Description.

This township is principally mountainous land;sloping easterly and westerly from a main divide ridge,which runs north and south through the east tier of sections.Adjacent to the lake,ranging in width from 5.00 chs.to 70.00 chs. is a tract of rolling and nearly level land;the larger part of which is susceptible of cultivation and part of this land could probably be irrigated from water pumped from Utah Lake at a reasonable cost providing horticultural crops are planted.The soil on the rolling lands is generally gravelly and sandy loam from 1 ft.to 6 ft.deep,on a rocky subsoil.The soil of the mountainous portion of the

township is gravelly and rocky about 1 to 2 ft.deep, underlaid in part by rocky subsoil and in part by solid rock in place.

Almost the entire township is covered with a dense growt of sage brush with some greasewood,rabbit brush,and little brush.

Grass is abundant except where the country is overgrazed by sheep.

A scrubby growth of cedar timber is found on the higher portions of the township.

There is no water in the township except Utah Lake .

No indications of mineral were found in the township except on the line bet.secs.27 and 28,a prospect was found revealing a two foot vein of Utah Onyx of Travert

James A.VanAusdal has a house,some fenced land,ploughed land ,and other improvements in sec.32,Value about $200 He had had some other improvements on this land consis ting of corrals and sheds which have been destroyed by fire. Mr.Van Ausdal through himself and his grantors claims to have had possession of this land for 23 years

O.Ingle Van Ausdal has a house,fences,and ploughed land in sec.29,value about $200.00 .

Cornelius J.VanAusdal has a tent house in sec.29,plough land,and fences.Value about $100.00. He claims that som of his improvements have been destroyed by fire.

D.Pearl Johnson,a widow,has about 20 acres of ploughed in sec.20,and fencing valued at about $50.00.Total valu of improvement $150.00 .

George S.Van Ausdal has a new house valued at $200.00, Ploughed land valued at $100.00;and fencing valued at $80.00 in sec.20.Total value of Improvements $380.00

Robert A.VanAusdal has a cabin,some fencing ,ploughed land in sec.20;Total value of improvements $200.00.

These settlers are living on there claims except D.Pearl Johnson.

No other settlers were found in the township;but a

Sub.T.8 S.,R.1 E.-Continued.

number of small tracts of land have been ploughed recently I could not learn the names of the particular claimants. J.Albert Van Ausdal's claim mentioned in the special instructions was not found.

Scott P. Stewart
U.S.Transitman.

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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 P. Stewart Instrumentman G.L.O., ~~United States Deputy Surveyor~~, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the retracement and survey of Sub T. 8 S. R. 1 E. of Salt Lake Base and Meridian, Utah

showing the respective capacities in which they acted:

Eric H. Anderson, Chainman.
Clifford A. Jennings, Chainman.
Genos Porter, Cornerman ~~Moundman~~.
, Moundman.
Ralph Hurst, Flagman and Axman.
, Axman.
, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Scott P. Stewart, Instrumentman G.L.O., ~~United States Deputy Surveyor~~, in retracing and surveying all those parts or portions of the Sub T. 8 S. R. 1 E.

of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah

Eric H. Anderson, Chainman.
Clifford A. Jennings, Chainman.
Genos Porter, Cornerman ~~Moundman~~.
, Moundman.
Ralph Hurst, Flagman and Axman.
, Axman.
, Flagman.

Subscribed and sworn to before me this 11th day of May 1911, 19

SEAL

Scott P. Stewart
Instrumentman G.L.O.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Scott P. Stewart Instrumentman G.L.O., ~~United States Deputy Surveyor~~ solemnly swear that, in pursuance of special instructions received from Thomas Hull United States Surveyor General for Utah, bearing date 30th day of March, 1911, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Sur General for Utah, the Manual of Surveying Instructions, and the laws United States, retraced and surveyed all those parts or portions of the subdivisional lines with re ment of S.bdy.of Township 8 South, Range 1 East

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

Scott P. Stewart
~~United States Deputy Sur~~
Instrumentman G.L.O.

Subscribed by said Scott P. Stewart, and sworn to before me this 6th day of April, 1912

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Aug. 22, 1

The foregoing field notes of the survey of the subdivisional lines with retr ment of south boundary of Township No.8 South, Range No.1 East of Salt Lake Base and Meridian, Utah,

executed by Scott P. Stewart under his special instructions contract No. , dated March 30, 1911, having critically examined, and the necessary corrections and explanations made, the said field notes, an surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor Ge

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

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BOOK A-380

A.

FIELD NOTES

OF THE SURVEY OF THE

[illegible]

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[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

EXECUTED BY

[illegible]

[illegible] of U. S. [illegible] under instructions dated [illegible], 1912, [illegible] by the United States Surveyor General to survey [illegible] in [illegible] which were approved by the Commissioner of the General Land [illegible] April [illegible], 1911, pursuant to authority contained in the Act of [illegible] dated [illegible] 1891.

Survey commenced [illegible] 1913

Survey completed [illegible] 1913

INDEX DIAGRAM.

Township 24 South, Range 6 West

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Resurvey of West Boundary T24S R6W.

Survey commenced June 29, 1911 and executed with a W & L. E. Gurley light mountain transit, no number, 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 & declination arcs.

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

At the cor. of Tps. 24 & 25 S Rs 6 & 7 W. Lat. 38° 41' N, Long. 112° 34' W,

June 28, 1911. At 4 h 3 m. p. m. l. m. t. I set off 38° 41' N on the lat. arc; 23° 20' N on the decl. arc, & mark the meridian thus determined with the solar by a tack driven in a hub, firmly driven in the ground 5.00 chs. N of the instrument.

June 29, 1911. At 1 h 07 m. a. m. l. m. t. I observe Polaris at eastern elongation, in accordance with instructions in the manual, & mark the line thus determined by a tack driven in a wooden peg, set in the ground 5.00 chs N of my station.

After daylight I lay off the azimuth of Polaris 1° 30' to the west and mark the meridian thus determined by a tack driven in the hub set last evening on which the meridian falls 0.3 ins. west of the mark determined by the solar.

At 8 h 03 m. a. m. l. m. t. I set off 38° 41' on the lat. arc; 23° 18' N on the decl. arc; & mark the meridian determined with the solar by a pencil mark on the hub already set 5.00 chs

Resurvey of West Boundary T24 S R 6 W.

N of my station; this mark falls 0.4 in. west of the meridian established by the Polaris observations.

The solar apparatus by P.M. & A.M. observations defines positions for meridians about 0.16" E and 0.21" W of the meridian established by the Polaris observations.

Therefore I conclude that the adjustments of the instrument are satisfactory.

Thence I run

North on retracement line bet. secs. 31 & 36.

40.00 Fall 9 lks. W of old 1/4 sec. cor. which is a limestone 6 x 8 x 11 in. loosely set & poorly marked. I destroy all traces of old cor. and re-establish it at same point as follows,

Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap

1/4 S 36 on W half; S 31 on E half; from which

A cedar tree 7 in. diam. bears

S 42° 30' E, 53 lks. dist. marked

1/4 S 31 B T

A cedar tree, 14 in. diam. bears

S 51° W, 50 lks. dist. marked

1/4 S 36 B T

Therefore the course of this line is N 0° 08' E.

Thence I run N on random line; at 5 miles 47.83 chs. intersect N bdy. of Tp. 52 lks. E of cor. of Tps. 23 & 24 S Rs 6 & 7 W which is a soft sandstone 5 x 6 x 16 in. properly marked set in a mound of stone. I destroy old cor. and re-establish it at same point as follows

Set an iron post 3 ft. long, 3 in. diam. 24 in. in ground for cor. of Tps. 23 & 24 S, Rs 6 & 7 W. marked on brass cap

T 23 S on N half

T 24 S on S half

R 7 W S 36 in NW

R 6 W S 31 in NE

R 6 W S 6 in SE

R 7 W S 1 in SW, quadrant; raise a mound

Resurvey West Boundary T24S R6W

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

June 30, 1911.

July 1, 1911. At 8h 3m a.m.l.m.t. I set off 38°46' on the lat. arc; 23°11' N on the decl. arc, and determine a meridian with the solar at the cor. of Tps. 23 & 24 S, Rs 6 & 7 W.
Thence I run
S 0°04' E on true line bet. secs. 1 & 6.
Over gently rolling land through sagebrush.
4.10 Wash, known as Big Wash, 60 ft. deep, 4.00 chs wide, drains N 10° W.
37.00 Wash 10 ft. deep, 40 lks. wide drains N 50° E.
47.83 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for ¼ sec. cor. marked on brass cap ¼ S 1 on W half; S 6 on E half; dig pits 18 x 18 x 12 in. N & S of post 3 ft. dist; & raise a mound of earth 3½ ft. base, 1½ ft. high, W of cor.
53.85 Foot of bench bears N 40° E, & S 40° W.
57.85 Top of bench, 20 ft. high bears N 40° E & S 40° W.
75.85 Leave bench, descend, bears E & W.
87.83 Set an iron post 3 ft. long, 3 in. diam. 24 in. in ground for cor. of secs. 1, 6, 7 & 12 marked on brass cap
T24S on N half
R7W S 1 in NW
R6W S 6 in NE
S 7 in SE
S 12 in SW, quadrant; raise a mound of stone 2 ft. base, 1½ ft. high, W of cor.
Pits impracticable.
Land, gently rolling. N slope.
Soil, light sandy loam, 4 to 10 in. deep, with some gravel & stones, medium texture, dry gravel subsoil.
No timber.

S 0°04' E bet. secs. 7 & 12.
Over gently rolling land through sagebrush.

Resurvey of West Boundary, T24 S R6 W.

0.50	Foot of bench 10 ft. below cor. bears E & W
1.00	Leave sagebrush: enter white sage bears E & W.
9.00	Road, Kanosh to Blackrock bears S80°W & N80°E.
14.90	Road, Kanosh to Cove Fort bears S45°W & N45°E.
18.18	Wire fence bears N45°20'E & S45°20'W.
20.85	Telephone line Kanosh to Cove Fort bears N41°30'E, & S41°30'W.
40.00	Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S12 on W half; S7 on E half; dig pits 18 X 18 X 12 in. N & S of post, 3 ft. dist; & raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W of cor.
44.00	Leave white sage: enter sagebrush bears E & W.
68.00	Leave sagebrush; enter rye planted among white sage without the ground being plowed bears N60°W & S60°E.
79.00	Leave rye bears N40°W & S40°E.
80.00	Set an iron post 3 ft. long, 3 in. diam. 24 in. in ground for cor. of secs. 7, 12, 13 & 18, marked on brass cap T24 S on N half R7W S12 in NW R6W S7 in NE S18 in SE S13 in SW, quadrant: dig pits 18 X 18 X 12 in. in each sec. 5 1/2 ft. dist; & raise a mound of earth 4 ft. base, 2 ft. high, W of cor. Land, gently rolling. NE slope. Soil, good brown clay loam, 5 to 20 in. deep, fine texture, dry, clay & gravel subsoil No timber.
	S0°04' E bet. secs. 13 & 18. Over gently rolling land through white sage
6.00	Leave white sage: enter sagebrush bears N50°W & S50°E.
21.45	Wire fence (4 wires) bears N87°15'E & S87°15'W.
40.00	Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S13 on W half; S18 on E half; dig pits 18 X 18 X

Resurvey of West Boundary T24SR6W

12 in. N & S of post 3 ft. dist; & raise a mound of earth 3½ ft. base 1½ ft. high. W of cor.
65.75 Wash 10 ft. deep, 25 lks. wide, drains N 10° W.
74.00 Enter scattering cedar bears N 30° W & S 30° E.
80.00 Set an iron post 3 ft. long, 3 in. diam. 24 in. in ground for cor. of secs. 13, 18, 19 & 24 marked on brass cap.
T24S on N half
R7W S13 in NW
R6W S18 in NE
S19 in SE
S24 in SW, quadrant: from which
A cedar tree, 10 in. diam. bears N 5° E, 77 lks. dist. marked
T24SR6W S18 B T
A cedar tree, 12 in. diam. bears S 70° 35' W, 3.45 chs. dist. marked
T24SR7W S24 B T
A cedar tree, 14 in. diam. bears N 77° 30' W, 3.66 chs. dist. marked
T24SR7W S13 B T
No trees suitable for marking in sec 19, so raise a mound of stone 2 ft. base, 1½ ft. high. W of cor. Pits impracticable.
Land, gently rolling. N slope.
Soil on N 30.00 chs. good brown clay loam 5 to 20 in. deep, fine texture, dry, clay subsoil.
S 50.00 chs. light sandy loam with some gravel, coarse texture, dry, on a mixture of clay, lime & gravel forming concrete.
Timber, scattering cedar
July 1, 1911. At this cor. I set off 23° 10' N on the decl. arc; & at 12 h. 3 m. p.m. l. m. t. observe the sun on the meridian. The resulting lat. is 38° 43' N.

30° 04' E bet. secs. 19 & 24
Over gently rolling land through scattering cedar timber & sagebrush.
20.00 Leave scattering: enter heavy cedar timber

Preserve of West Boundary T 24 S R 6 W

Leave N 20° W & S 20° E

[illegible] heavy [illegible] scattering [illegible] timber

Leave N 40° W & S 40° E

[illegible] Set [illegible] post [illegible] long [illegible] diam [illegible]

ground [illegible] marked [illegible] brass cap

[illegible] half [illegible] from which

[illegible] diam [illegible]

N 69° E [illegible] disk marked

[illegible]

[illegible] diam [illegible]

S 55° W [illegible] disk marked

[illegible]

[illegible] N 30° E

[illegible] Set [illegible] post [illegible] long [illegible] diam [illegible]

ground [illegible] marked [illegible] brass cap

[illegible] half [illegible] from which

[illegible] diam [illegible]

[illegible] disk marked

[illegible]

[illegible] diam [illegible]

S 34° E [illegible] disk marked

[illegible]

[illegible] diam [illegible]

S 66° W [illegible] disk marked

[illegible]

[illegible] diam [illegible]

N 2° W [illegible] disk marked

[illegible]

Land [illegible] drainage.

Soil light [illegible] sandy loam with some

gravel & stones [illegible] deep [illegible]

[illegible] gravel & limestone [illegible] bedrock

Timber, cedar

Resurvey of West Boundary T24S R6W.

July 1, 1911. At 2h 3m. p.m. l.m.t. I set off 38°43' on the lat. arc; 23°10' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 19, 24, 25 & 30.

Thence I run

S 0°04' E on true line bet. secs. 25 & 30.

Over rolling mountainous land, through scattering cedar timber, ascend.

1.00 Small quartzite spur 50 ft. above cor. prog. N 60° W.

17.50 Draw 150 ft. below spur drains N 50° W.

20.50 Spur 90 ft. above draw prog. N 75° W.

30.00 Foot of descent 65 ft. below spur bears N 70° W & S 70° E, thence gentle ascent along E side of smooth draw.

40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 25 on W half; S 30 on E half; from which

A cedar tree 8 in. diam. bears S 72°30' E, 2.40 chs. dist. marked 1/4 S 30 B T

A cedar tree, 6 in. diam. bears S 62°30' W, 93 lks. dist. marked 1/4 S 25 B T.

62.00 Begin abrupt ascent bears E & W.

79.00 Top of ridge 400 ft. high, divide between Dog Valley & Fillmore Valley, bears E & W.

80.00 Set an iron post 3 ft. long, 3 in. diam. 24 in. in ground for cor. of secs. 25, 30, 31 & 36, marked on brass cap

T 24 S on N half

R 7 W S 25 in NW

R 6 W S 30 in NE

S 31 in SE

S 36 in SW, quadrant; from which

A cedar tree 8 in. diam bears N 43° E, 80 lks. dist. marked T 24 S R 6 W S 30 B T

A cedar tree, 8 in. diam. bears N 48° W, 58 lks. dist. marked

Resurvey of West Boundary T24S R6W.

T24S R7W S25 B.T.

No other trees suitable for marking so raise a mound of stone 2 ft. base, 1½ ft. high, W of cor. Pits impracticable.

Land, rolling & broken mountainous.

Ridges, light poor sandy loam, stony, washed on slopes; valleys, light poor sandy loam with some gravel, subsoil, gravel.

Timber, cedar.

S0°04' E bet. secs. 31 & 36.

Over mountainous land through scattering cedar.

6.00	Head of draw 100 ft. below sec. cor. drains W.
12.00	Saddle in spur, 100 ft. above draw proj. S80°W.
27.00	Draw 300 ft. below spur drains S30°W.
30.00	Spur 100 ft. above draw proj. S30°W.
37.00	Small draw 50 ft. deep drains S60°W.
40.00	The 1/4 sec. cor. before described.

Land mountainous.

Ridges & slopes, light poor sandy soil, stony; valleys, sandy loam, gravel subsoil.

Timber, cedar.

July 1, 1911.

Retracement of North Boundary T 23 S R 6 W.

July 3, 1911. At 8h 04m a.m. l.m.t. I set off 38°46' on the lat. arc; 23°63' N on the decl. arc; & determine a meridian with the sun at the cor. of Tps. 23 & 24 S, Rs. 6 & 7 W.
Thence I run
East on retracement line bet. secs. 6 & 31.
40.44 Fall 23 lks. N of old ¼ sec. cor. which is a sandstone 6x10x10 in. above ground, loosely set, marked & witnessed as described by the Surveyor General.
I destroy all traces of the old cor. & re-establish it at same point as follows
Set an iron post 3 ft. long, 1 in. diam. 26 in in ground for ¼ sec. cor. marked on brass cap ¼ S 31 on N half; S 6 on S half; dig pits 18 X 16 X 12 in. E & W of post 3 ft. dist; & raise a mound of earth 3½ ft. base, 1½ ft. high, N of cor.
Therefore the course of this line is S 89°41' E.
Moved to cor.
Thence I run
East on retracement line bet. secs. 6 & 31.
40.63 Fall 38 lks. N of cor. of secs. 5, 6, 31 & 32, which is a quartzite 7x7x5 in. greatly crumbled, marks nearly obliterated
I destroy all traces of the old cor. and re-establish it at same point as follows
Set an iron post 3 ft. long, 3 in. diam. 26 in in ground for cor. of secs. 5, 6, 31 & 32 marked on brass cap
T 23 S S 31 in NW
R 6 W S 32 in NE
R 6 W S 5 in SE
T 24 S S 6 in SW, quadrant; dig pits 18 X 16 X 12 in. in each sec. 5½ ft. dist; & raise a mound of earth 4 ft. base, 2 ft. high, W of cor.
Therefore the course of this line is S 89° 28' E.

East on retracement line bet. secs. 5 & 32.
40.50 Fall 8 lks. N of ¼ sec. cor. which is a limestone 6x14x6 in. above ground, firmly set, marked

Retracement of North Boundary T 24 S R 6 W

& witnessed as described by the Surveyor General.
Therefore the course of this line is S 89° 53' E.
Moved to cor.
Thence I run
East on retracement line bet. secs. 5 & 32.
40.45 Fall 18 lks. N of cor. of secs. 4, 5, 32 & 33 which is a quartzite 8 x 14 x 10 in. above ground, badly decomposed, marks nearly obliterated.
I destroy all traces of the old cor. and re-establish it at same point as follows
Set an iron post 3 ft. long, 3 in. diam. 24 in. in ground for cor. of secs. 4, 5, 32 & 33 marked on brass cap.
T 23 S S 32 in NW
R 6 W S 33 in NE
R 6 W S 4 in SE
T 24 S S 5 in SW, quadrant; from which
A cedar tree, 18 in. diam. bears
N 24° E, 1.90 chs. dist. marked
T 23 S R 6 W S 33 B T
A cedar tree, 4 in. diam. bears
S 32° 30' E; 1.88 chs. dist. marked
T 24 S R 6 W S 4 B T
A cedar tree 5 in. diam. bears
S 27° W, 69 lks. dist. marked
T 24 S R 6 W S 5 B T
A cedar tree, 6 in. diam. bears
N 67° W, 30 lks. dist. marked
T 23 S R 6 W S 32 B T.
Therefore the course of this line is S 89° 45' E.
July 3, 1911. At this cor. I set off 23° 01' N on the decl. arc; and at 12 h 4 m p.m. l. m. t. observe the sun on the meridian, the resulting lat. is 38° 46' N.

East on retracement line bet. secs. 4 & 33.
40.10 Fall 23 lks. N of 1/4 sec. cor. which is a quartzite 12 x 8 x 7 in. above ground firmly set

Retracement of North Boundary T24S R6W.

marked & witnessed as described by the Surveyor General.
Therefore the course of this line is S89°40'E.
Moved to cor.
Thence I run
East on retracement line bet. secs. 4 & 33.
40.78 Fall 49 lks. N of cor. of secs. 3, 4, 33 & 34 which is a quartzite 12x16x8 in loosely set beginning to crumble, marks nearly obliterated.
I destroy all traces of the old cor. & re-establish it at same point as follows
Set an iron post 3 ft. long, 3 in. diam. 24 in. in ground for cor. of secs. 3, 4, 33 & 34 marked on brass cap
T23S S33 in NW
R6W S34 in NE
R6W S3 in SE
T24S S4 in SW, quadrant; from which
A cedar tree 10 in. diam. bears
N 26° E, 21 lks dist. marked
T23S R6W S34 B T
A cedar tree 8 in. diam bears
N 60° W, 25 lks. dist. marked
T23S R6W S33 B T
No other bearing trees within limits.
Raise a mound of stone 2 ft. base, 1½ ft high, W of cor. Pits impracticable.
Therefore the course of this line is S89°19'E.
July 3, 1911.

July 10, 1911. At 8 h 35 m. a. m. l. m. t. I set off 38° 46' on the lat. arc; 22° 21' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 3, 4, 33 & 34 on N bdy of Tp.
Thence I run
East on retracement line bet. secs. 3 & 34.
41.22 Fall 1.06 chs. S of ¼ sec. cor. which is a granite 6x16x10 in. above ground

Retracement of North Boundary T24 S R6 W

firmly set marked & witnessed as described by the surveyor general.
Therefore the course of this line is N88° 32' E.
Moved to cor.
Thence I run
East on retracement line bet. secs. 3 & 34.
10.21 Fall 23 lks. N. of C. C. for Tps. 24 S, Rs 5 & 6 W, which is a limestone 4x10x10 in above ground firmly set, marked & witnessed as described by the surveyor general.
Therefore the course of this line is S88° 43' E & dist. 10.22 chs.

July 10. 1911

Volume
#
R0380

Retracement of Part of South Boundary T24S R6W.

July 5, 1911. At 9h 04m a.m. l.m.t. I set off 38°41' on the lat. arc; 22°52' N on the decl. arc; & determine a meridian with the solar at the cor. of Tps. 24 & 25 S Rs 6 & 7 W.
Thence I run
East on retracement line bet. secs. 6 & 31.
40.00 Fall 35 lks. ~~lks~~ N of old 1/4 sec. cor. which is a granite 4x4x4 in. above ground loosely set.
I destroy all traces of the old cor. and re-establish it at same point as follows
Set an iron post 3 ft. long 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 31 on N half; S 6 on S half; dig pits 18x18x12 in. E & W of post 3 ft. dist; & raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N of cor.
Therefore the course of this line is S 89°30' E
Moved to cor.
Thence I run
East on retracement line bet. secs. 6 & 31.
40.00 Fall ~~40~~ 35 lks N of cor. of secs. 5, 6, 31 & 32 which is a granite 9x10x4 in. above ground, poorly marked.
I destroy all traces of the old cor. and re-establish it at same point as follows
Set an iron post 3 ft. long 3 in. diam 24 in. in ground for Cor. of Secs. 5, 6, 31 & 32 marked on brass cap
T24S S31 in NW
R6W S32 in NE
R6W S5 in SE
T25S S6 in SW, quadrant; raise a mound of stone 2 ft. base, 1 1/2 ft. high W of cor. Pits impracticable.
Therefore the course of this line is S 89°30' E.

East on retracement line bet. secs. 5 & 32.
40.02 Fall 27 lks. N of 1/4 sec. cor. which is a granite 10x4x4 in. loosely set, poorly marked

Retracement of Part of South Boundary T24S R6

I destroy all traces of the old cor. and re-
establish it at same point as follows.
Set an iron post 3 ft. long, 1 in. diam.
26 in in ground for 1/4 sec. cor. marked
on brass cap 1/4 S 32 on N half; S 5 on S half;
raise a mound of stone 2 ft. base, 1 1/2 ft.
high N of cor. Pits impracticable.
Therefore the course of this line is S 89° 37' E.
Moved to cor.
Thence Run
East on retracement line bet. secs. 5 & 32.
40.02 Fall 27 lks. N of cor. of secs. 4, 5, 32 & 33
which is a limestone 5 x 12 x 10 in. above
ground loosely set & not witnessed
I destroy all traces of old cor. and re-
establish it at same point as follows
Set an iron post 3 ft. long, 3 in. diam. 24
in. in ground for cor. of secs. 4, 5, 32 & 33
marked on brass cap
T24S S32 in NW
R6W S33 in NE
R6W S4 in SE
T24S S5 in SW, quadrant; raise a mound
of stone 2 ft. base, 1 1/2 ft. high, W of cor.
Pits impracticable.
Therefore the course of this line is S 89° 37' E
July 5, 1911.

Survey of Part of South Boundary T 24 S R 6 W.

Survey commenced July 5, 1911 and executed with a W V L. E. Gurley light-mountain transit no number 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.

Knowing my instrument is imperfect adjustment from recent observations on Polaris

July 5, 1911. At 2 h 04 m. p. m. l. m. t. I set off 38°41' on the lat. arc: 22°51' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 4, 5, 32 & 33 before described on S. bdy. of Tp.

Thence I run

East on true line bet. secs. 4 & 33.

Over mountainous land through oak brush.

3.00 Draw 75 ft. below cor. drains N 60° W, ascend

16.00 Enter scattering cedar timber bears N 45° W & S 45° E.

34.00 Top of spur 500 ft. above draw prof. S. Leave cedar bears N & S.

40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 33 on N half; S 4 on S half; raise a mound of stone 2 ft. base, 1 1/2 ft. high N of cor. Pits impracticable. This cor. is 130 ft. below spur.

41.75 Head of draw 100 ft. below cor. drains S

56.00 Main spur 200 ft. above draw prof. N 70° W.

60.00 Set an iron post 3 ft. long 2 in. diam. 24 in. in ground for cor. of secs. 3, 4, 33 & 34 marked on brass cap

T 24 S S 33 in NW

R 6 W S 34 in NE

Survey of Part of South Boundary T24S R6

R6W S3 in SE

T25S S4 in SW, quadrant: raise a mound of stone 2 ft. base, 1½ ft. high. W of cor. Pits impracticable.
This cor. is 400 ft. below spur.
Land, rolling mountainous.
Ridges & slopes, light poor sandy loam stony & gravelly; valleys, good sandy loam; gravel subsoil.
Timber, cedar; undergrowth, oakbrush.

East bet. secs. 3 & 34.
Over mountainous land through oak brush, descend.

22.00 Dog Valley Canyon 100 ft. below cor.: spring branch 1 lk wide, 1 in. deep runs N 80° W, ascend.

22.50 Enter cedar timber bears N 80° W & S 80° E.

35.06 Leave same bears N 80° W & S 80° E.

40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for ¼ sec. cor. marked on brass cap ¼ S 3 4 on N half; S 3 on S half; raise a mound of stone 2 ft. base, 1½ ft. high, N of cor. Pits impracticable.
A lone cedar 6 in. diam. bears S 15° E, 2.56 chs. dist. marked ¼ S 3 B J.

45.00 Spur 700 ft. above Dog Valley Canyon proj. S 30° E.

53.75 Draw 350 ft. below spur drains S 20° W.

56.51 Intersect W. bdy T24S R5W, 13.57 chs. S of cor. of secs. 30 & 31 which is a sandstone 8x10x8 in. above ground badly decomposed.
I destroy all traces of the old cor. & re-establish it at same point as follows
Set an iron post 3 ft. long 3 in. diam. 24 in. in ground for cor. of secs. 30 & 31, marked on brass cap
T24S on N half

Survey of Part of South Boundary T24S R6W.

R6W S3 S34 on W half
R5W S30 in NE
S 31 in SE. quadrant; from which
A lone cedar, 6 in. diam. bears
S12°30'E, 1.25 chs. dist. marked
T24S R5W S31 B.T.
Raise a mound of stone 2 ft. base, 1½ ft.
high. W of cor. Pits impracticable.
Set an iron post 3 ft. long, 3 in. diam.
24 in. in ground for closing cor. of Tps.
24 & 25 S R6W, marked on brass cap
CC T24S R5W S30 S31 on E half
T25S R6W S3 in SW
T24S R6W S34 in NW. quadrant from
which
A cedar tree, 6 in. diam. bears
N21°W, 2.13 chs. dist. marked
CC. T24S R6W S34 B.T.
No trees suitable in sec 3 so raise a
mound of stone 2 ft. base, 1½ ft. high
W of cor. Pits impracticable.
Land mountainous.
Ridges & slopes, poor sandy loam with
gravel & stones; valleys, sandy loam on
gravel subsoil.
Timber, cedar; undergrowth oak.

July 5 1911.

John W. Dougall
Transitman

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Page

Retracement & Resurvey of East Bdy. T24S R6W

July 10, 1911. At 10h 05m a.m. l.m.t. I set off 38°46' on the lat arc; 22°20' N on the decl. arc; & determine a meridian with the solar at the closing cor. of Tps. 24 S, Rs. 5 & 6 W.
Thence I run
South on retracement line on W bdy of sec 6 T24S R5W.
111.98 Fall 2.22 chs. W of 1/4 sec. cor. which is an iron stained quartzite 9x10x12 in. poorly marked & loosely set.
I destroy all traces of the old cor. and re-establish it at same point as follows
Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S on W half; S 6 on E half from which
A cedar tree 10 in. diam. bears N 76° 30' E, 52 lks. dist. marked 1/4 S 6 B J
A cedar tree, 8 in. diam. bears S 55° W, 65 lks. dist. marked 1/4 S 10 B J
Therefore the course of this line is N 1° 08' W. and dist. 112.00 chs
July 10, 1911. At this cor. I set off 22°20' N on the decl. arc; and at 12h 05m p.m. l.m.t. observe the sun on the meridian, the resulting lat. is 38°45' N.
Moved to cor.
Thence I run South on retracement line on W. bdy of sec. 6
40.40 Fall 30 lks. E of cor. of secs. 6 & 7 of T24S R5W which is a hard sandstone 4x10x16 in loosely set, dimly marked.
I destroy all traces of the old cor. and re-establish it at same point as follows
Set an iron post 3 ft. long, 3 in. diam. 24 in. in ground for cor. of secs. 6 & 7 marked on brass cap
T24S on N half

Retracement & Resurvey of East Bdy T24S R6W.

R6W S10 S15 on W half
R5W S6 in NE
S7 in SE, quadrant; from which
a cedar tree 8 in. diam. bears
N 24° E, 89 lks. dist. marked
T24 S R5W S6 B T
a cedar tree 5 in. diam. bears
S58° E, 1.34 chs. dist. marked
T24 S R5W S7 B T
Therefore the course of this line is S0°25'W.

July 10, 1911. At 2h 05m. p.m. l.m.t. I set off 38°44' on the lat. arc; 22°19' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 6 & 7 on W bdy. T24S R5W.
Thence I run
South on retracement line on W bdy of sec. 7 of T24S R5W.
40.00 After diligent search no trace of 1/4 sec. cor. is found.
81.40 Fall 18 lks. E of cor. of secs. 7 & 18 which is a limestone 12x12x6 in. above ground poorly marked & stone crumbling.
I destroy all traces of the old cor. and re-establish it at same point as follows
Set an iron post 3 ft. long, 3 in. diam. 24 in. in ground for cor. of secs. 7 & 18 marked on brass cap
T24S on N half
R6W S15 S22 on W half
R5W S7 in NE
S18 in SW, quadrant; from which
a cedar tree 10 in. diam. bears
N79° E, 1.53 chs. dist. marked
T24S R5W S7 B T
a cedar tree 12 in. diam. bears
S61° E, 1.50 chs. dist. marked
T24S R5W S18 B T
Therefore the course of this line is S0°08'W.
July 10, 1911.

tracement & Resurvey of East Boundary T24S R6W.

July 26, 1911. At 8h 06m a.m. l.m.t. I set off 38°48' on the lat. arc; 19°37' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 7 & 18 on W bdy of T24S R5W.
Thence I run
N 0°08' E on W bdy. of sec. 7.
Over broken mountainous land, ascend through scattering cedar timber & oak brush.
12.40 Draw on W slope drains W.
26.40 Leave scattering; enter heavy cedar bears N 45° W & S 45° E.
28.50 Spur 350 ft. above cor. proj. N 40° W.
33.30 Head of draw, 150 ft. below spur drains N 60° W.
40.70 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S on W half; S 7 on E half; from which
A cedar tree 8 in. diam. bears
N 72° E, 27 lks. dist. marked
1/4 S 7 B J
A cedar tree 10 in. diam. bears
S 64° W, 65 lks. dist. marked
1/4 S 1 5 B J
48.40 Spur 220 ft. above draw proj. N 15° W
49.00 Leave heavy; enter scattering cedar timber bears N 15° W & S 15° E.
81.40 The cor. of secs. 6 & 7.
This cor. is 500 ft. below spur.
Land, broken stony mountainous.
Soil, poor sandy loam with gravel & stones
Timber, cedar; undergrowth, oak.
July 26, 1911. At this cor. I set off 19°35' N on the decl. arc; and at 12h 6m p.m. l.m.t. observe the sun on the meridian, the resulting lat. is 38°44' N.

N 0°25' E on W bdy. sec. 6. T24S R5W.
Over rolling mountainous land through scattering cedar & oak brush.
3.40 Draw 50 ft. below cor. drains N 40° W.

Retracement & Resurvey of East Boundary T24S R6

19.15	Spur 300 ft. above draw prog. N 60° W.
33.20	Draw 310 ft. below spur drains N 45° W.
40.40	Intersect 1/4 sec. cor. before described
	Land, rolling mountainous.
	Soil, poor sandy & gravelly loam with stones.
	Timber, cedar; undergrowth, oak.
	July, 26, 1911. At 2h 36m. p.m. l.m.t. I set off 38° 45' on the lat. arc; 19° 33' N on the decl. arc; & determine a meridian with the solar at the 1/4 sec. cor. on W bdy. sec 6.
	Thence I run
	N 1° 08' W on W bdy of sec. 6, ascend
3.30	Spur 70 ft. above cor. prog. N 45° W.
18.00	Draw 200 ft. below spur drains N 20° W.
28.00	Point of spur prog. N 20° W.
42.00	Leave mountainous land into rolling land bears E & W.
53.50	Wood road bears N 75° E & S 75° W.
64.70	Wash 4 ft. deep 30 lks. wide drains W, thence ascend.
94.50	Ridge 400 ft. high bears N 80° W & S 80° E.
112.00	The closing cor. of Tps. 24 S, Rs 5 & 6 W, before described.
	N 47.30 chs & S 42.00 chs. broken & hilly.
	Ridges, stony gravelly soil.
	Balance of line gently rolling land.
	Soil, good sandy loam, 4 to 20 in. deep clay subsoil.
	Timber, cedar.
	July 26, 1911.
	July 11, 1911. At 9h 5m. a. m. l. m. t. I set off 38° 43' on the lat. arc; 22° 13' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 7 & 18 on W bdy of T24S R5W.
	Thence I run
	South on retracement line on W bdy of sec. 18.

Retracement & Resurvey East Bdy T 24 S R 6 W

40.00 Intersect old 1/4 sec. cor. which is a sandstone 10 x 15 x 8 in. above ground poorly marked.
I destroy all traces of the old cor. & re-establish it at same point as follows
Set an iron post 3 ft. long 1 in. diam 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S on W half; S 18 on E half; from which
A cedar tree 8 in. diam. bears S 46° E, 97 lks. dist. marked 1/4 S 18 B T
A cedar tree 8 in. diam. bears S 40° W 95 lks. dist. marked 1/4 S 22 B T

80.00 Intersect cor. of secs. 18 & 19 which is a limestone 18 x 4 x 6 in. above ground poorly marked & not witnessed.
I destroy all traces of the old cor. & re-establish it at same point as follows
Set an iron post 3 ft. long 3 in. diam. 24 in. in ground for cor. of secs. 18 & 19 marked on brass cap
T 24 S on N half
R 6 W S 22 S 27 on W half
R 5 W S 18 in NE
S 19 in SE quadrant;
Raise a mound of stone 2 ft. base 1 1/2 ft. high, W of cor.
Pits impracticable.

South on retracement line on West bdy. of sec. 19.

40.35 Fall 4 lks. E of old 1/4 sec. cor. which is a limestone 4 x 10 x 8 in. above ground dimly marked and not witnessed.
I destroy all traces of the old cor. & re-establish it at same point as follows
Set an iron post 3 ft. long, 1 in. diam.

26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S on W half; S 19 on East half; raise a mound of stone 2 ft. base 1 1/2 ft. high, W of cor.
Pits impracticable.
Therefore the course of this line is S 0° 03' W.
Continue on same line.

80.70 Fall 7 lks W of cor. of secs. 19 & 30 which I established July 7, 1911 for description of which see notes of subdivision of this Tp.
Therefore the course of this line is S 0° 03' W.

July 11, 1911.

July 12, 1911. At 9 h 35 m. a. m. l. m. t. I set off 38° 42' on the lat. arc; 22° 05' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 19 & 30.
Thence I run
South on retracement line on W bdy of sec. 30 T 24 S R 5 W.

40.35 Fall 3 lks E of old 1/4 sec. cor. which is a sandstone 9 x 11 x 16 in. above ground poorly marked & not witnessed.
I destroy all traces of the old cor & re-establish it at same point as follows
Set an iron post 3 ft. long, 1 in. diam 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S on W half; S 30 on E half; raise a mound of stone 2 ft. base 1 1/2 ft. high, W of cor.
Pits impracticable.
Therefore the course of this line is S 0° 03' W.
Continue on same line.

80.70 Fall 7 lks. E of cor. of secs. 30 & 31, cor. before described.
Therefore the course of this line is S 0° 03' W.

July 12, 1911.

Latitudes & Departures & Closing Errors

ne designated	True bearing	Distance	Latitudes N	Latitudes S	Departures E	Departures W
		cho	cho.	cho.	cho.	cho.
dy sec. 34	West	56.51				56.51
dy sec. 33	West	80.00				80.00
dy sec 32	N 89°37'W	80.04	.54			80.04
dy sec 31	N 89°30'W	80.00	.70			80.00
y sec 31	N 0°08'E	40.00	40.00		.09	
y sec 31	N 0°04'W	40.00	40.00			.05
sec. 30, 19, 18, 7 & 6	N 0°04'W	407.83	407.83			.47
y sec 6	S 89°41'E	40.44		.23	40.44	
dy sec 6	S 89°28'E	40.63		.38	40.63	
dy sec. 5	S 89°53'E	40.50		.08	40.50	
bdy sec. 5	S 89°45'E	40.45		.18	40.45	
bdy sec. 4	S 89°40'E	40.10		.23	40.10	
bdy sec 4	S 89°19'E	40.78		.49	40.78	
dy sec. 3	N 88°32'E	41.22	1.06		41.21	
bdy sec. 3	S 88°43'E	10.22		.23	10.22	
y sec. 6, T24S R5W	S 1°08'E	112.00		111.98	2.21	
y sec 6, T24S R5W	S 0°25'W	40.40		40.40		.29
dy sec. 7 T24S R5W	S 0°08'W	81.40		81.40		.19
y sec 18 T24S R5W	South	80.00		80.00		
dy sec 19, T24S R5W	S 0°03'W	80.70		80.70		.07
dy sec. 30 T24S R5W	S 0°03'W	80.70		80.70		.07
ist on E bdy sec. 34	South	13.57		13.57		
nvergency					.37	
			490.13	490.57	297.00	297.69
				490.13		297.00
			Error in lat.	.44	Error in depth	.69

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CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, ..., U. S. Surveyor, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of .....

For certificate of assistants see book "B" T.24 S., R.6 W.

of the ..... Meridian, in the State of .....

which are represented in the foregoing field notes as having been executed 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 executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	

Subscribed and certified to before me on the dates of the final service as shown above.

.....

6—2761 *U. S. Surveyor.*

FINAL OATH OF UNITED STATES SURVEYOR.

I, ..., U. S. Surveyor, do solemnly swear that, in pur
of special instructions received from the U. S. Surveyor General for .....
bearing date of the ..... day of ....., 191 , I have well, faithfully, and
in my own proper person, and in strict conformity with said instructions, the Manual of Sur
Instructions, and the laws of the United States, surveyed all those parts or portions of .....
.....
.....
For final oath of transitman see book "B" T.24 S., R.6 W.
.....
..... of the .....
..... Meridian, in the State of ....., which are represe
the foregoing field notes as having been executed by me, and under my direction; and I do
solemnly swear that all the corners of said survey have been established and perpetuated in strict
ance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Su
General for ..... and in the specific manner described in the field notes, a
the foregoing are the original field notes of such survey.

.....
U. S. Surve

Subscribed by said ....., and sworn to before me
this ..... day of ....., 191

SEAL

.....
.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 30 1

The foregoing field notes of the resurvey of the West, retracement and survey
South, retracement of North, and retracement and resurvey of East
Boundaries of Township No.24 South, Range No.6 West of the Salt L
Base and Meridian, Utah,
.....
.....
.....
executed by John W.Dougall
under his special instructions dated March 27, 191 1 , havin
critically examined, and the necessary corrections and explanations made, the said field notes, a
surveys they describe, are hereby approved.

Thomas Hall
U. S. 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 of

.....
U. S. Surveyor Gene

6—2761

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Page

4—679

"B"
BOOK A-380

M.S.B.

FIELD NOTES

OF THE SURVEY OF THE

Subdivision of Fractional
Township No. 24 South
Range No. 6 West

Of the Salt Lake Base X Meridian,
In the State of Utah

EXECUTED BY

John W. Dougall

In the capacity of U. S. ~~Surveyor~~ Transitman, under instructions dated Mar 27, 1911,
issued by the United States Surveyor General to govern surveys included in
Group No. 10, which were approved by the Commissioner of the General Land
Office, April 22, 1911, pursuant to authority contained in the Act of
Congress dated ....., 191....

Survey commenced June 29, 1911

Survey completed July 26, 1911

Filed 4/17/12

BOOK A-380

INDEX DIAGRAM.

Township 24 South, Range 6 West

6 15 14	5 26 25	4 41 39	3 40	2	1
7 12 12	8 24 23	9 38 36	10 36	11	12
18 11 10	17 21 20	16 34 32	15 33	14	13
19 9 8	20 19 18	21 31 29	22 30	23	24
30 7 1	29 17 2	28 28 3	27 4	26	25
31 5	32 16	33 27	34	35	36

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Subdivision T24S R6W.

Survey commenced July 6, 1911 & executed with a W & L. E. Gurley light mountain transit, no number, with solar attachment. For full description of instrument see Book A. Knowing my instrument is in perfect adjustment from recent Polaris observations, I omit test. On account of the western two miles of the South boundary deviating more than 21' of arc, from an east & west line I run a sectional correction line as follows
July 6, 1911. At 8 h 40 m. a. m. l. m. t. I set off 38°42' N on the lat. arc; 22°47' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 25, 30, 31 & 36 on W bdy. of Tp. heretofore described
Thence I run
East on Sectional Correction line bet. secs. 30 & 31
Over stony mountainous land through scattering cedar.

6.00 Top of ridge bears N 80° W & S 80° E.
22.00 Top of same ridge bears N 80° E & S 80° W.
32.00 Head of draw 200 ft. below ridge drains S.
40.00 Top of same ridge bears N 80° W & S 80° E.
Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 30 on N half; S 31 on S half; from which
A cedar tree 12 in. diam. bears N 50° E, 8 lks. dist. marked 1/4 S 30 B T
A cedar tree, 5 in. diam. bears S 61° E, 14 lks. dist. marked 1/4 S 31 B T
55.50 Top of same ridge bears N 60° E & S 60° W.
72.00 Head of draw 350 ft. below ridge drains S.
Leave scattering; enter heavy cedar & pinion timber bears N & S.
80.00 Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 29, 30, 31 & 32 marked on brass cap
T 24 S S 30 in NW

Subdivision T 24 S R 6 W.

R 6 W S 29 in NE
S 32 in SE
S 31 in SW, quadrant;
A cedar tree 8 in. diam. bears
N 35° E, 45 lks. dist. marked
T 24 S R 6 W S 29 B T
A pinion tree 32 in. diam. bears
S 36° E, 18 lks. dist. marked
T 24 S R 6 W S 32 B T
A cedar tree 10 in. diam. bears
S 29° W, 75 lks. dist. marked
T 24 S R 6 W S 31 B T
A cedar tree, 20 in. diam. bears
N 60° W, 44 lks. dist. marked
T 24 S R 6 W S 30 B T
Land, mountainous.
Soil, light poor sandy loam mixed with gravel & stones.
Timber, cedar & pinion.

July 6, 1911. At 3 h 4 m. p. m. l. m. t. I set off 38° 42' on the dat arc; 22° 45' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 29, 30, 31 & 32.
Thence I run
East on Sectional Correction line bet. secs 29 & 32.
Over mountainous land through thick cedar & pinion timber along steep S slope
2.50 Spur 150 ft. above cor. proj. S 40° W.
4.00 Leave cedar & pinion: enter juniper under growth.
19.00 Head of draw 200 ft. below spur drains S 45° W.
22.00 Spur 100 ft. above draw proj. S 15° W.
26.00 Head of draw 150 ft. below spur drains S.
Enter scattering cedar, bears E & W.
32.00 Spur 150 ft. above draw proj S.
40.00 Draw 200 ft. below spur drains S Point for 1/4 sec. cor. cor. not set.
40.57 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground, for Witness cor. to 1/4 sec. cor.

Subdivision T 24 S R 6 W.

marked on brass cap W.C. 1/4 S 29 on N half; S 32 on S half; from which
A cedar tree, 20 in. diam. bears
N 81° E, 1.28 chs. dist. marked
W.C. 1/4 S 29 B J
A cedar tree, 12 in. diam. bears
S 38° E, 2.06 chs. dist. marked
W.C. 1/4 S 32 B J

55.00 Spur 400 ft. above draw proj. S. Leave scattering cedar.

67.00 Draw 100 ft. below spur drains S.

68.75 Spur 90 ft. above draw proj. S.

70.00 Leave juniper: enter oakbrush bears N & S

80.00 Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 28, 29, 32 & 33 marked on brass cap,
T 24 S S 29 in NW
R 6 W S 28 in NE
S 33 in SE
S 32 in SW, quadrant; raise a mound of stone 2 ft. base, 1 1/2 ft. high W of cor.
Pits impracticable.
A lone cedar tree 6 in. diam. bears
S 3° W, 2.12 chs. dist. marked
T 24 S R 6 W S 32 B J

Land, mountainous.
Soil, light poor sandy loam mixed with stones & gravel.
Timber, cedar & pinion.
Undergrowth, juniper & oak.

July 6, 1911.

July 7, 1911. At 9h 5m. a.m. l. m. t. I set off 38° 42' on the lat. arc; 22° 41' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 28, 29, 32 & 33.
Thence I run
East on Sectional Correction line bet. secs. 28 & 33.
Over mountainous land along S slope, through dense oak brush.

Subdivision T24S R6W

9.10 Draw 100 ft. below cor. drains S15°W.
34.75 Wash 15 ft. deep 30 lks wide drains S10°W.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S28 on N half; S33 on S half; raise a mound of stone 2 ft. base, 1½ ft. high, N of cor. Pits impracticable.
43.50 Draw 100 ft. below cor. drains S10°W.
52.00 Spur 250 ft. above draw, proj. S10°W.
61.00 Draw 150 ft. below spur drains S10°W.
80.00 Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 27, 28, 33 & 34 marked on brass cap
T24S S28 in NW
R6W S27 in NE
S34 in SE
S33 in SW, quadrant; raise a mound of stone 2 ft. base, 1½ ft. high, W of cor.
Pits impracticable.
Land, rolling mountainous, south slope.
Soil on ridges light brown clay loam with some gravel; slopes & valleys, good brown clay loam, with some gravel, subsoil clay & gravel.
No timber; undergrowth, oak.
July 7, 1911. At this cor. I set off 22°40' N on the decl. arc; and at 12h 5m p.m. l. m. t. observe the sun on the meridian, the resulting lat. is 38°42' N.

East on Sectional Correction line bet. secs. 27 & 34
Over stony mountainous land through oakbrush.
13.00 Draw 200 ft. below sec. cor. drains S.W. thence abrupt ascent
38.00 Enter mahogany bears N40°W & S40°E.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S27 on N. half; S34 on S half; from which
A mahogany tree 8 in. diam. bears
N56°W, 1.09 chs. dist. marked 1/4 S27 B.T.

Subdivision T24S R6W

A mahogany tree 5 in. diam. bears
S 47° E, 12 lks. dist. marked
1/4 S 34 B T.
41.00 Top of abrupt ascent, 500 ft. above draw,
thence gentle ascent.
48.00 Thence abrupt ascent.
56.37 Intersect W. bdy. of Tp. 24 S R 5 W, 13.15 chs.
S. of cor. of secs. 19 & 30 which is a sandstone
badly decomposed.
I destroy all traces of old cor. and re-
establish it at same point as follows.
Set an iron post 3 ft. long, 3 in. diam. 24
in. ground for cor. of secs. 19 & 30 marked
on brass cap
T24S on N half
R6W S27 S34 on W half
S19 in NE
R5W S30 in SE, quadrant; raise a mound
of stone 2 ft. base, 1½ ft. high, W of cor.
Pits impracticable.
Set an iron post 3 ft. long, 2 in. diam. 24 in.
in ground for closing cor. of secs. 27 & 34
marked on brass cap
T24S on N half
CC R5W S19 S30 on E half
R6W S34 in SW
S27 in NW, quadrant; raise a mound of
stone 2 ft. base, 1½ ft. high, W of cor.
Pits impracticable.
Land, mountainous.
Soil, light poor sandy loam mixed with
gravel & stones, coarse texture.
No timber; undergrowth, oak & mahogany.
July 7, 1911.

July 6, 1911.
South on random line bet. secs. 31 & 32
40.00 After careful search no trace of old 1/4 sec.
cor. is found
80.80 Intersect S. bdy. of Tp. 10 lks. E. of cor. of secs.

Subdivision T. 24 S R 6 W.

5, 6, 31 & 32, heretofore described.
July 6, 1911. At this cor. I set off 22°46' N on the decl. arc; and at 12 h 4 m, p.m. l. m. t. observe the sun on the meridian, the resulting lat. is 38°41' N.
Thence I run
North on resurvey line bet. secs. 31 & 32
Over gently rolling land through sagebrush.
13.45 Wood road bears E & W.
15.80 Leave Dog Valley bears E & W, ascend; leave sagebrush bears E & W.
30.00 Enter juniper bears E & W.
36.00 Enter scattering cedar bears N 40° E & S 40° W.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 31 on W half; S 32 on E half; from which
A cedar tree, 24 in. diam. bears
S 85° E, 50 lks. dist. marked
1/4 S 32 B J
A cedar tree 10 in. diam. bears
S 50° W, 85 lks. dist. marked
1/4 S 31 B J.
Thence N 0°08' E bet. secs. 31 & 32.
41.37 Top of spur 550 ft. above valley proj. S 75° W.
55.00 Draw 500 ft. below spur drains S 40° W.
72.00 Spur 700 ft. above draw proj. S 35° W
73.00 Leave juniper & scattering cedar: enter heavy cedar & pinion bears N 60° E & S 60° W.
80.80 The cor. of secs. 29, 30, 31 & 32.
S 15.80 chs. valley land, W slope.
Soil, good rich brown clay loam 6 to 30 in. deep, fine texture, dry, clay subsoil.
N 65.00 chs. broken & mountainous.
Ridges, light sandy loam with some gravel and stones; slopes, good clay loam in places, in others stony & washed; draws, sandy loam with some gravel; gravel subsoil.
Timber, cedar & pinion; undergrowth, juniper
July 6, 1911.

Subdivision T 24 S R 6 W.

	July 13, 1911. At 9h 05m a. m. l. m. t. I set off 38°42' on the lat. arc; 21°57' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 29, 30, 31 & 32
	Thence I run
	N 0°03' W bet. secs. 29 & 30.
	Over broken mountainous land through thick cedar & pinion timber.
5.00	Leave heavy; enter scattering timber
10.00	Top of ridge 200 ft. above cor. bears N 70° E & S 70° W; leave scattering timber; enter oak brush descend abruptly.
30.65	Draw 600 ft. below ridge drains N 10° W; enter scattering cedar & pinion.
39.75	Same draw 200 ft. lower drains N 15° E.
40.00	Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 30 on W half; S 29 on E half; from which
	A pinion tree 5 in. diam. bears S 3° E, 1.66 chs. dist. marked 1/4 S 29 B T.
	A cedar tree 6 in. diam. bears N 75° W, 91 lks. dist. marked 1/4 S 30 B T.
49.00	Spur 170 ft. above draw prog. N 30° E.
64.50	Draw 400 ft. below spur drains N 45° W.
74.00	Spur 150 ft. above draw prog. N 85° W.
77.50	Draw 110 ft. below spur, drains N 70° W.
80.00	Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 19, 20, 29 & 30, marked on brass cap
	T 24 S S 19 in NW
	R 6 W S 20 in NE
	S 29 in SE
	S 30 in SW, quadrant; from which
	A cedar tree, 10 in. diam. bears N 58° E, 91 lks. dist. marked T 24 S R 6 W S 20 B T
	A cedar tree 10 in. diam. bears S 68° 30' E, 63 lks. dist. marked

Subdivision T 24 S R 6 W.

T 24 S R 6 W S 29 B T
A cedar tree 7 in. diam. bears
S 54° W, 58 lks. dist. marked
T 24 S R 6 W S 30 B T
A cedar tree 8 in. diam. bears
N 30° W, 60 lks. dist. marked
T 24 S R 6 W S 19 B T
Land, broken mountainous.
Ridges, good clay loam mixed with some gravel & stones, washed on slopes, valleys gravelly.
Timber, cedar & pinion; undergrowth oak

West on random line bet. secs. 19 & 30.
40.00 Set temp. 1/4 sec. cor.
79.78 Intersect W. bdy. of Tp. 3 lks. N. of cor. of secs. 19, 24, 25 & 30 heretofore described.
July 13, 1911 at this cor. I set off 21° 56' N on the decl. arc; and at 12 h 05 m. p.m. l. m. t. observe the sun on the meridian the resulting lat. is 38° 43' N.
Thence I run
N 89° 59' E on true line bet. secs. 19 & 30.
Over rolling mountainous land through cedar timber, descend.
12.50 Draw 125 ft. below cor. drains N 60° W.
29.00 Spur 175 ft. above draw proj. N 50° W.
38.00 Draw 180 ft. below spur drains N 40° W.
39.89 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 19 on N half; S 30 on S half; from which
A cedar tree, 5 in. diam. bears
N 60° E, 96 lks. dist. marked
1/4 S 19 B T.
A cedar tree 10 in. diam. bears
S 50° E, 1.23 chs. dist. marked
1/4 S 30 B T
55.00 Spur 400 ft. above draw proj. N 25° W.
70.00 Draw 350 ft. below spur drains N 20° W
79.78 The cor. of secs. 19, 20, 29 & 30

Subdivision T 24 S R 6 W.

This cor. is 200 ft. above draw.
Land, rolling mountainous.
Ridges, light sandy loam mixed with gravel & stone; slopes & valleys, sandy loam with some gravel, subsoil, gravel.
Timber cedar.

July 13, 1911. At 3 h 5 m. p. m. l. m. t. I set off 38° 43' on the lat. arc; 21° 55' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 19, 20, 29 & 30.
Thence I run
N 0° 03' W bet. secs. 19 & 20.
Over mountainous land through cedar timber ascend along W slope.
7.00 Point of spur 200 ft. above cor. prog. N 40° W.
26.00 Foot of mountains; enter rolling land bears N 40° W & S 40° E, thence descend gently.
32.00 Wash 4 ft. deep, 30 lks. wide drains N 40° W
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap
1/4 S 19 on W half; S 20 on E half; from which
A cedar tree 10 in. diam bears
N 29° E, 1.34 chs. dist. marked
1/4 S 20 B T
A cedar tree, 16 in. diam. bears
S 17° W, 3.34 chs. dist. marked
1/4 S 19 B T
80.00 Set an iron post 3 ft. long 2 in. diam. 24 in. in ground for cor. of secs. 17, 18, 19 & 20, marked on brass cap
T 24 S S 18 in NW
R 6 W S 17 in NE
S 20 in SE
S 19 in SW, quadrant; from which
A cedar tree 10 in. diam. bears
N 74° E, 85 lks. dist. marked
T 24 S R 6 W S 17 B T
A cedar tree 4 in. diam. bears
S 55° 30' E, 1.01 chs. dist. marked

Subdivision T 24 S R 6 W.

T 24 S R 6 W S 20 B J
A cedar tree 14 in. diam. bears
S 64° W. 3.72 chs. dist. marked
T 24 S R 6 W S 19 B J
A cedar tree, 8 in. diam bears
N 20° W. 2.05 chs. dist. marked
T 24 S R 6 W S 18 B J
S 26.00 chs. broken & mountainous
Soil, light sandy loam with gravel & stones.
N 54.00 chs. gently rolling land NW slope.
Soil, poor sandy loam mixed with gravel, 4 to 20 in. deep, coarse texture, dry, gravel subsoil.
Timber cedar

July 13, 1911.

July 14, 1911. At 7 h 55 m. a. m. l. m. t. I set off 38° 43' on the lat. arc; 21° 49' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 17, 18, 19 & 20.
Thence I run
S 89° 59' W on random line bet. secs. 18 & 19.
40.00 Set temp. 1/4 sec. cor.
80.00 Intersect W. bdy. of Tp 3 lks. S. of cor. of secs. 13, 18, 19 & 24. heretofore described.
Thence I run
East on true line bet. secs. 18 & 19.
Over gently rolling land through scattering cedar timber & sagebrush.
1.00 Leave scattering cedar bears N & S
5.00 Wash 6 ft. deep, 30 lks. wide drains N 10° W.
37.00 Enter scattering cedar bears N & S.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 18 on N half; S 19 on S half; from which
A cedar tree 12 in. diam. bears
N 44° E, 2.18 chs. dist. marked
1/4 S 18 B J
A cedar tree, 10 in. diam. bears

Subdivision T24S R6W

S 20° E, 1.73 chs. dist. marked
1/4 S19 B.T.

43.00 Leave scattering; enter heavy cedar bears N 30° W & S 30° E.

75.00 Leave heavy; enter scattering cedar, bears N & S

80.00 The cor. of secs. 17, 18, 19 & 20.
Land, gently rolling N slope.
Soil, light sandy loam with some gravel 4 to 20 in. deep, medium texture dry, gravel subsoil.
Timber, cedar; undergrowth sagebrush.

N 0° 03' W bet. secs. 17 & 18
Over gently rolling land through scattering cedar timber & sagebrush.

8.00 Leave cedar bears N 40° W & S 40° E.

10.20 Wash 8 ft. deep 50 lks. wide drains N 60° W.

20.00 Low bench 25 ft. high bears E & W.

40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S18 on W half; S17 on E half; from which
A lone cedar 6 in. diam. bears
S 61° E, 6.08 chs. dist. marked
1/4 S17 B.T.
Raise a mound of stone 2 ft. base 1 1/2 ft. high W of cor. Pits impracticable.

62.19 Wire fence bears N 87° 15' E & S 87° 15' W.

62.90 Leave sagebrush; enter white sage bears N 40° W & S 40° E.

78.00 Wash 3 ft. deep 10 lks. wide drains N 50° W.

80.00 Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 7, 8, 17 & 18 marked on brass cap
T24S S7 in NW
R6W S8 in NE
S17 in SE
S18 in SW, quadrant; raise a mound of stone 2 ft. base 1 1/2 ft. high, W of cor.
Pits impracticable.

Subdivision T24S R6W.

From this cor. S E cor. of fence bears S37°40'E
A cor. of angle in fence bears N23°05'E.
Land, gently rolling, NW slope.
Soil, sandy loam with some stones 4 to 16 in. deep, dry, gravel & stone subsoil.
Timber, cedar; undergrowth, sagebrush.

West on random line bet. secs. 7 & 18
40.00 Set temp. 1/4 sec. cor.
79.72 Intersect W bdy. of Tp. 11 lks. S of cor of secs. 7, 12, 13 & 18. heretofore described
July 14, 1911. at this cor. I set off 21°47' N on the decl. arc; and at 12 h 6 m p.m. l. m. t. observe the sun on the meridian, the resulting lat. is 38°44' N.
Thence I run
S 89°55' E on true line bet. secs. 7 & 18.
Over gently rolling land through white sage.
1.10 Enter rye sown among white sage without plowing the ground bears N45°W & S45°E.
33.00 Leave rye, bears N50°E & S50°W.
34.00 Wash 2 ft. deep 20 lks. wide drains N30°E.
39.86 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 7 on N half; S18 on S half; dig pits 18 x 18 x 12 in. E & W of post 3 ft. dist; & raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N of cor.
79.38 Small wash 2 ft. deep 10 lks wide drains N25°W.
79.72 The cor. of secs. 7, 8, 17 & 18.
Land, gently rolling, N slope.
Soil, good brown clay loam, 5 to 30 in. deep fine texture, dry, clay subsoil.
No timber.

July 14, 1911. At 2 h 6 m. p. m. l. m. t. I set off 38°44' on the lat. arc; 21°46' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 7, 8, 17 & 18.

Subdivision T 24 S R 6 W.

	Thence I run
	N 0° 03' W bet. secs. 7 & 8.
	Over gently rolling land through white sage.
25.00	Enter rye planted in white sage bears N 45° E & S 45° W.
30.00	Leave same bears N 40° W & S 40° E.
40.00	Set an iron post 3 ft. long, 1 in. diam. 26 in in ground for 1/4 sec. cor. marked on brass cap 1/4 S 7 on W half; S 8 on E half; dig pits 18 x 18 x 12 in. N & S of post 3 ft. dist; & raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W of cor.
	From this cor. galvanized water tank bears N 34° 30' W.
	Frame for tent bears N 35° 20' W.
	Well bears N 37° 55' W.
41.10	Enter corn field bears N 42° W.
49.00	Leave same.
54.70	Wash 3 ft. deep, 20 lks. wide drains N 50° W.
56.40	Road, Hanosh to Jewkes Mine bears N 20° W & S 20° E.
65.50	Leave white sage; enter sagebrush bears E & W.
68.80	Leave sagebrush; enter rye bears E & W.
71.35	Leave rye; enter field peas bears N 60° E & S 60° W.
72.15	Leave field peas; enter corn N 62° E & S 62° W.
75.40	Leave corn; enter white sage bears N 62° 30' E & S 62° 30' W.
78.10	Small wash 3 ft. deep 10 lks. wide drains S 70° W.
80.00	Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 5, 6, 7 & 8 marked on brass cap
	T 24 S S 6 in NW
	R 6 W S 5 in NE
	S 8 in SE
	S 7 in SW, quadrant; dig pits 18 x 18 x 12 in. in each sec. 5 1/2 ft. dist. & raise a mound of earth 4 ft. base 2 ft. high, W of cor.

Subdivision T24S R6W

From this cor. galvanized tank bears S47°W
Frame for tent bears S45°40'W.
Well bears S46°20'W.
Angle in jog in fence bears N35°30'E.
Abandoned well bears S85°30'W, 6.80 chs.
Angle in fence bears N64°20'E.
NE cor. of rye field, 40 acres planted without plowing the ground, bears S37°20'W, 28.53 chs.
Discovery monument of Mohawk Mine bears N63°30'E.
Land, gently rolling, NW slope.
Soil, good brown clay loam, 6 to 20 in. deep, fine texture, dry, clay subsoil.
No timber.

N89°55'W on random line bet. secs. 6 & 7.
40.00 Set temp. 1/4 sec. cor.
79.68 Intersect W. bdy. of Tp. 2 lks. N of cor. of secs. 1, 6, 7 & 12, heretofore described,
Thence I run
S89°56'E on true line bet. secs. 6 & 7
Over gently rolling land through sagebrush
16.68 Road, Hanosh to Cove Fort bears N45°E & S45°W.
18.63 Telephone line, Hanosh to Cove Fort bears N48°30'E & S48°30'W.
18.78 Wire fence bears N44°30'E & S44°30'W.
36.70 Wash (known as "Big Wash") 10 ft. deep, 40 lks. wide drains N10°W.
39.84 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S6 on N half; S7 on S half; dig pits 18x18x12 in. E & W of post 3 ft. dist; raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.
47.20 Wash 3 ft. deep 10 lks. wide drains N10°W.
55.85 Wash 3 ft. deep 20 lks. wide drains N30°W.
63.70 Leave sagebrush; enter white sage bears N60°W & S60°E.

Subdivision T24S R6W

75.90	Road, Hanosh to Jewkes Mine bears N10°E. & S10°W.
79.68	The cor. of secs. 5, 6, 7 & 8.
	Land, gently rolling, N slope.
	Soil, good brown clay loam, 4 to 10 in. deep, medium texture, dry, clay & gravel subsoil.
	No timber.
	July 14, 1911.
	July 20, 1911. At 4 h 36 m. p. m. l. m. t. I set off 38°45' on the lat. arc; 20°46' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 5, 6, 7 & 8.
	Thowing from previous retracements that closing corners will be necessary on the N. bdy.
	I run
	N 0°03' W on true line bet. secs. 5 & 6.
	Over gently rolling land through white sage.
3.80	Wash 3 ft. deep, 10 lks. wide drains S80°W.
31.75	Road, Hanosh to Jewkes Mine bears N10°E, & S10°W.
37.00	Leave white sage; enter sagebrush bears N20° E & S20° W.
40.00	Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S6 on W half; S5 on E half; raise a mound of stone 2 ft. base, 1½ ft. high, W of cor. Pits impracticable.
45.00	Leave sagebrush: enter white sage bears N40° W & S40° E.
47.90	Road, Hanosh to Jewkes Mine bears N10° W & S10° E.
48.78	Wire fence bears S87°20' E, 4.50 chs & N. 87°20' W 14.86 chs. to NW cor. of inclosure.
56.30	Wash 12 ft. deep, 60 lks. wide drains N40° W.
66.40	Road, Hanosh to Cove Fort bears N43° E & S43° W.
66.80	Telephone line, Hanosh to Cove Fort bears N43°30' E & S43°30' W

[illegible] Leave white sage; enter sagebrush bears E & W
[illegible] Leave sagebrush; enter white sage bears E & W
[illegible] Intersect N bdy of Tp. 1.49 chs. N 89° 28' W
of cor. of secs. 5, 6, 31 & 32 heretofore described
Set an iron post 3 ft. long 2 in. diam. 24 in.
in ground for closing cor. of secs. 5 & 6.
marked on brass cap
C C T 23 S R 6 W S 31 S 32 on N half
S 5 on S E
S 6 in S W quadrant; dig pits 24 x 18 x 12 in.
crosswise on each line E & W 3 ft. & S of post
7 ft. dist; & raise a mound of earth 4 ft.
base, 2 ft. high. S of cor.
Land, gently rolling. NW slope
Soil, good brown clay loam, 4 to 20 in. deep
fine texture, dry. clay subsoil.
No timber.

July 20, 1911.

July 8, 1911 Lat. 9 h 05 m. a. m. l. m. t. I set off
38° 42' on the lat. arc; 22° 34' N on the decl. arc
& determine a meridian with the solar at
the cor. of secs. 28, 29, 32 & 33.
Thence I run
South on random line bet. secs. 32 & 33.
[illegible] Fall 3 lks. W of old ¼ sec. cor. which is a
limestone 6 x 8 x 12, loosely set marks nearly
obliterated. I destroy all traces of old cor. & re-
establish it at same point as follows
Set an iron post 3 ft. long 1 in. diam. 26 in. in
ground for ¼ sec. cor. marked on brass cap
¼ S 32 on W half; S 33 on E half; from which
A cedar tree 8 in. diam. bears
N 24° E. 20 chs. dist. marked
¼ S 33 B T
A cedar tree 5 in. diam. bears
S 57° W. 31 lks. dist. marked
¼ S 32 B T
Thence I run
South retracement line bet. secs. 32 & 33.

Subdivision T 24 S R 6 W

Over rolling mountainous land through scattering cedar timber & oak brush.
0.40 Leave cedar timber bears E & W
3.61 Wood road bears E & W.
5.60 Bottom of wash in mouth of Dog Valley Canyon drains W.
24.30 Enter scattering cedar bears N 40° E & S 40° W.
28.30 Spur 250 ft. above canyon proj. N 80° W.
30.30 Leave cedar bears E & W.
37.30 Bottom of draw 225 ft. below spur drains N 60° W.
39.57 Intersect S bdy. of Tp. at cor. of secs. 4, 5, 32 & 33, heretofore described.
I now begin at the 1/4 sec. cor. & run N 0° 04' W on true line bet. secs. 32 & 33.
Over mountainous land through scattering cedar timber & oak brush, ascend along E slope.
23.70 Leave cedar bears N 10° W & S 10° E.
41.69 The cor. of secs. 28, 29, 32 & 33.
Land, rolling mountainous.
Soil, light poor sandy loam with gravel
Timber, cedar; undergrowth oak.

July 8, 1911.

July 15, 1911. At 9 h 6 m. a. m. l. m. t. I set off 38° 42' on the lat. arc; 21° 39' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 28, 29, 32 & 33.
Thence I run
N 0° 02' W bet. secs. 28 & 29
Over stony mountainous land, through oakbrush, ascend.
23.70 Ridge 750 ft. above cor. bears N 70° E & S 70° W.
35.25 Head of draw 500 ft. below ridge drains N 60° W.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 29 on W half; S 28 on E half; raise a mound of stone 2 ft. base, 1 1/2 ft. high, W of cor. Pits impracticable.

Subdivision T 24 S R 6 W

48.00 Enter scattering cedar bears E & W, also leave oakbrush, bears E & W.
59.00 Spur 350 ft. above draw prog. N 20° W.
80.00 Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 20, 21, 28 & 29 marked on brass cap
T 24 S S 20 in NW
R 6 W S 21 in NE
S 28 in SE
S 29 in SW, quadrant; from which
A cedar tree 8 in. diam. bears
N 12° E, 9 lks. dist. marked
T 24 S R 6 W S 21 B T
A cedar tree 12 in. diam. bears
S 66° E, 56 lks. dist. marked
T 24 S R 6 W S 28 B T
A cedar tree 12 in. diam. bears
S 46° W 1.47 chs. dist. marked
T 24 S R 6 W S 29 B T
A cedar tree, 6 in. diam. bears
N 40° W, 50 lks. dist. marked
T 24 S R 6 W S 20 B T
Land, broken mountainous: very stony.
Soil, light sandy & gravelly loam.
Timber, cedar; undergrowth, oak.
July 15, 1911. At this cor. I set off 21° 38' N on the decl. arc; and at 12 h 06 m. p. m. l. m. t. observe the sun on the meridian, the resulting lat. is 38° 43' N.

West on random line bet. secs. 20 & 29.
40.00 Set temp. 1/4 sec. cor.
79.98 Intersect N & S line 12 lks. S of cor. of secs. 19, 20, 29 & 30.
July 15, 1911. At 3 h 06 m. p. m. l. m. t. I set off 38° 43' on the lat. arc; 21° 37' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 19, 20, 29 & 30
Thence I run
S 89° 55' E on true line bet. secs. 20 & 29.

Subdivision T 24 S R 6 W.

	Over rolling mountainous land through cedar timber.
9.25	Spur 190 ft. above cor. prog. N 40° W.
28.00	Draw 300 ft. below spur drains N 45° W.
39.99	Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 20 on N half; S 29 on S half; from which
	A cedar tree 20 in. diam. bears N 72° E, 1.35 chs. dist. marked 1/4 S 20 B T
	A cedar 10 in. diam. bears S 46° E, 1.00 ch. dist. marked 1/4 S 29 B T
46.00	Small draw drains S 80° W.
60.50	Spur 500 ft. above 1/4 sec. cor. prog. N 40° W.
60.63	Discovery monument at Jewkes Mine, claim No. 5 bears N 28° 20' E.
65.00	Head of draw, 100 ft. below spur drains N 20° E
78.23	Discovery monument at Jewkes Mine, claim No. 5 bears N 44° 20' W.
78.50	Spur 300 ft. above draw prog. N 10° W.
79.98	The cor. of secs. 20, 21, 28 & 29.
	Land, rolling & broken mountainous. Ridges, sandy loam with some gravel; slopes, some clay; valleys, poor sandy loam with some gravel; subsoil, gravel. Timber, cedar.
	July 15, 1911.
	July 19, 1911. At 9 h 06 m a.m. l.m.t. I set off 38° 43' on the lat. arc; 21° 00' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 20, 21, 28 & 29. Thence I run N 0° 02' W bet. secs. 20 & 21. Over stony rolling mountainous land, through scattering cedar, descend along E slope
21.50	Prospect 30 ft. deep bears W 1.16 chs.
21.75	Prospect 40 ft. deep bears W. 1.92 chs.

Subdivision T24S R6W

22.00 Remains of old cabin bears W, 1.90 chs.
30.00 Leave scattering cedar, bears E & W.
40.00 Set an iron post 3 ft. long 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S20 on W half; S21 on E half; raise a mound of stone 2 ft. base, 1 1/2 ft. high. W of cor. Pits impracticable.
41.25 Draw 500 ft. below sec. cor. drains N 25° W.
54.00 Spur 250 ft. above draw proj. N 20° W: enter scattering cedar bears N 20° W & S 20° E, descend.
80.00 Falls in wash in bottom of draw 400 ft. below spur. drains N W.
80.50 Set an iron post 3 ft. long 2 in. diam. 24 in. in ground for W.C. to secs. 16, 17, 20 & 21, marked on brass cap
W.C. on N half
T24S S17 in NW
R6W S16 in NE
S21 in SE
S20 in SW, quadrant; from which
A cedar tree, 8 in. diam. bears
N 8° E, 1.60 chs. dist. marked
W.C. T24S R6W S16 B T
A cedar tree 5 in. diam. bears
S 51° 30' E, 20 chs. dist. marked
W.C. T24S R6W S21 B T
A cedar tree 6 in. diam. bears
S 65° W, 1.82 chs. dist. marked
W.C. T24S R6W S20 B T
A cedar tree, 10 in. diam. bears
N 63° W. 1.28 chs. dist. marked
W.C. T24S R6W S17 B T
Land, rolling stony mountainous.
Ridges & slopes, sandy soil with stones & gravel.
Valleys, gravelly soil on gravel subsoil.
Timber, cedar.

N 89° 55' W on random line bet. secs. 17 & 20

Subdivision T 24 S R 6 W

40.00 Set temp. 1/4 sec. cor.
79.88 Intersect N & S line 16 lks. N of cor. of secs. 17, 18, 19 & 20.
July 19, 1911. At this cor. I set off 20° 58' N on the decl. arc; and at 12 h 06 m p.m. l. m. t. observe the sun on the meridian, the resulting lat. is 38° 43' N
Thence, I run
N 89° 58' E on true line bet. secs. 17 & 20.
Over rolling land through scattering cedar timber & sagebush.
4.00 Wash 8 ft. deep 30 lks. wide, drains N 15° W
27.75 Wash 8 ft. deep 25 lks. wide, drains N 45° W.
28.57 Road, Hanosh to Jewkes Mine bears N 10° W & S 10° E.
35.35 Wash 5 ft. deep, 20 lks. wide, drains N 60° W.
39.94 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 17 on N half; S 20 on S half; from which
A cedar tree 8 in. diam. bears
S 34° E, 59 lks. dist. marked
1/4 S 20 B T
A cedar tree, 10 in. diam. bears
N 17° W, 69 lks. dist. marked
1/4 S 17 B T. Ascend over hilly ground
62.00 Point of spur 225 ft. above 1/4 sec. cor. proj. N 20° W.
79.88 Intersect N & S line 50 lks. S of W.C. or the proper point for cor. of secs. 16, 17, 20 & 21.
W 40.00 39.94 chs. rolling land NW slope.
Soil, light poor sandy loam 4 to 8 in. deep coarse texture with some gravel, dry, gravel subsoil.
E 39.94 chs. hilly.
Soil, poor sandy loam, gravelly & stony.
Timber, cedar; undergrowth, sagebush.

July 19, 1911. At 3 h 36 m p.m. l. m. t. I set off 38° 43' on the lat. arc; 20° 57' N on the decl. arc; & determine a meridian with the solar

Subdivision T24S R6W

at the W.C. to secs. 16, 17, 20 & 21.
Thence I run
N 0°02' W bet. secs. 16 & 17.
Over rolling mountainous land through
scattering cedar timber & sagebush, ascend
8.00 Spur 150 ft. above sec. cor. proj. N 70° W.
19.75 Draw 150 ft. below spur drains N 70° W.
30.00 Spur 200 ft. above draw proj. W.
35.00 Foot of mountains: enter rolling land
bears E & W.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in.
in ground for 1/4 sec. cor. marked on brass cap
1/4 S17 on W half; S16 on E half; from which
A cedar tree 5 in. diam. bears
N 31° E. 2.64 chs. dist. marked
1/4 S16 B T
A cedar tree 12 in. diam. bears
S 77° 30' W, 2.44 chs. dist. marked
1/4 S17 B T.
56.30 Wash 20 ft. deep 2.00 chs. wide drains N 60° W.
80.00 Set an iron post 3 ft. long 2 in. diam. 24
in. in ground for cor. of secs. 8, 9, 16 & 17,
marked on brass cap
T24S S8 in NW
R6W S9 in NE
S16 in SE
S17 in SW, quadrant; from which
A cedar tree 5 in. diam. bears
N 51° E, 75 lks. dist. marked
T24S R6W S9 B T
A cedar tree, 8 in. diam. bears
S 58° 30' E, 87 lks. dist. marked
T24S R6W S16 B T.
A cedar tree, 6 in. diam. bears
S 58° 30' W, 70 lks. dist. marked
T24S R6W S17 B T
A cedar tree 8 in. diam. bears
N 52° W, 60 lks. dist. marked
T24S R6W S8 B T
S 35.00 chs. hilly

Subdivision T24S R6W.

N 45.00 chs. rolling land, W slope.
Soil; light, poor sandy loam with some gravel, 4 to 12 in. deep coarse texture, dry, gravel subsoil.
Timber, cedar.

July 19, 1911.

July 20, 1911. At 8h 06m a.m. l.m.t. I set off 38°44' on the lat. arc; 20°50' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 8, 9, 16 & 17.
Thence I run
S 89°58' W on random line bet. secs. 8 & 17
40.00 Set temp. 1/4 sec. cor.
79.90 Intersect N & S line 5 lks. S of cor. of secs. 7 8, 17 & 18
Thence I run
East on true line bet. secs. 8 & 17.
Over gently rolling land through white sage.
1.50 Leave white sage; enter sagebrush bears N & S
7.40 Road, Nanosh to Jewkes Mine bears N & S.
13.58 Wire fence bears N 1°30' W & S 1°30' E.
25.10 Wash 10 ft. deep, 50 lks. wide drains N 40° W.
38.50 Old wood road bears N 40° W & S 40° E.
39.95 Set an iron post 3 ft. long, 1 in. diam. 2 6 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 8 on N half; S 17 on S half; from which
A lone cedar 8 in. diam. bears
N 33° E, 2.26 chs. dist. marked
1/4 S 8 B T.
Raise a mound of stone 2 ft. base 1/2 ft. high N of cor. Pits impracticable.
From this cor. S.E. cor. of fence bears S 57°25' W
A cor. of angle in fence bears N 27° W.
51.90 Enter scattering cedar timber bears N 30° E & S 30° W.
52.60 Wash 4 ft. deep, 20 lks. wide, drains N 40° W
79.90 The cor. of secs. 8, 9, 16 & 17.
Land, gently rolling bench, W slope.

Subdivision T24S R6W.

Soil, light sandy loam, with some gravel 4 to 12 in. deep, coarse texture, dry, gravel subsoil. Timber, cedar.

N 0° 02' W bet. secs. 8 & 9.
Over gently rolling land through cedar timber & sagebrush.

10.00 Wash 6 ft. deep, 50 lks. wide, drains N 70° W.
21.75 Wood road bears N 45° W & S 45° E
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 8 on W half; S 9 on E half; from which
A cedar tree 8 in. diam. bears
S 6° E, 77 lks. dist. marked
1/4 S 9 B T
A cedar tree, 10 in. diam. bears
S 46° 30' W, 2.50 chs. dist. marked
1/4 S 8 B T
45.50 Wash 5 ft. deep, 30 lks. wide drains N 75° W.
67.42 Wire fence bears N 84° 30' E & S 84° 30' W.
80.00 Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 4, 5, 8 & 9 marked on brass cap
T 24 S S 5 in NW
R 6 W S 4 in NE
S 9 in SE
S 8 in SW, quadrant; from which
A cedar tree 6 in. diam. bears
S 61° E, 1.88 chs. dist. marked
T 24 S R 6 W S 9 B T
A cedar tree, 10 in. diam. bears
S 26° 30' W, 2.50 chs. dist. marked
T 24 S R 6 W S 8 B T
A cedar tree 6 in. diam. bears
N 73° W, 2.02 chs. dist. marked
T 24 S R 6 W S 5 B T
No tree in sec. 4 suitable for marking so raise a mound of stone 2 ft. base, 1 1/2 ft. high, W of cor. Pits impracticable.
Land, gently rolling. W slope

Subdivision T24S R6W.

Soil, light poor sandy loam with gravel 4 to 16 in. deep, coarse texture, dry, gravel subsoil.
Timber, cedar.

West on random line bet. secs. 5 & 8.
40.00 Set temp. 1/4 sec. cor.
79.70 Intersect N & S line 2 lks. N of cor. of secs. 5, 6, 7 & 8.
July 20, 1911. At this cor. I set off 20°47' N on the decl. arc; and at 12 h 06 m. p.m. l. m. t. observe the sun on the meridian the resulting lat. is 38°45' N.
Thence I run
N 89°59' E on true line bet. secs. 5 & 8.
Over gently rolling land through white sage.
7.90 Enter corn field bears N 62° E & S 62° W.
13.30 Leave corn field; enter white sage bears N 62° E & S 62° W.
23.70 Leave white sage; enter sagebrush bears N 60° E & S 60° W
39.53 Wood road bears N 20° E & S 20° W.
39.85 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 5 on N half; S 8 on S half; raise a mound of stone 2 ft. base, 1½ ft. high, N of cor.
Pits impracticable.
From this cor. angle in fence bears N 55°30' W.
Discovery monument at Mohawk Mine bears N 18°45' W.
Angle in fence bears N 18°30' W.
53.70 Enter scattering cedar timber bears N 30° E & S 30° W.
73.00 Wood road bears N 10° E & S 10° W.
79.70 The cor. of secs. 4, 5, 8 & 9.
Land, gently rolling W slope.
Soil on west half of mile, good brown clay loam 5 to 20 in. deep, fine texture, dry, clay subsoil.
E half, light sandy loam with gravel

gravel subsoil.
Timber, cedar; undergrowth, sage.
N0°02'W bet. secs 4 & 5
Over gently rolling land through scattering cedar & sagebrush.
2.00 Leave cedar bears N30°W & S30°E.
26.65 Wire fence bears N77°55'E, & S77°55'W.
29.00 Wash 4 ft. deep, 40 lks. wide drains N75°W
38.10 Wood road bears N60°E & S60°W
38.50 Leave rolling; enter rolling mountainous land and scattering cedar bears E & W, ascend
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S5 on W half; S4 on E half; from which
A cedar tree 10 in. diam. bears S22°E, 2.23 chs. dist. marked 1/4 S4 B T
A cedar tree 8 in. diam. bears N25°W, 1.74 chs. dist. marked 1/4 S5 B T
44.80 Top of spur (known as 8 mile point) 100 ft. high, proj. N80°W.
47.75 Head of draw 75 ft. deep drains N40°W.
48.30 Wood road bears N40°W & S40°E.
66.00 Spur 110 ft. above draw proj. N40°W.
69.00 Draw 95 ft. below spur drains N60°W.
72.00 Small spur proj. N70°W.
86.97 Intersect N. bdy. of Tp. 2.78 chs. N89°45'W of cor. of secs. 4, 5, 32 & 33 heretofore described.
Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for closing cor. of secs. 4 & 5 marked on brass cap
CC T23S R6W S32 S33 on N half
S4 in SE
S5 in SW quadrant; from which
A cedar tree 7 in. diam. bears S40°E. 1.66 chs. dist. marked CC T24S R6W S4 B T
A cedar tree 7 in. diam. bears

Subdivision T24S R6W

S 32°30' W, 1.24 chs. dist. marked
C C T24S R6W S5 B J
S 38.50 chs. gently rolling land, W slope.
Soil, good brown clay loam, 5 to 16 in. deep
fine texture, dry, clay subsoil.
N 48.29 chs. hilly.
Soil, sandy loam with some gravel and
stones.
Timber, cedar; undergrowth, sagebrush.
July 20, 1911.

July 8, 1911. At 2h 5m. p.m. l.m.t. I set off
38°42' on the lat. arc; 22°33' N on the decl.
arc; I determine a meridian with the
solar at the cor. of secs. 27, 28, 33 & 34.
Thence I run
South on random line bet. secs. 33 & 34.
40.00 Set temp. 1/4 sec. cor.
81.30 Intersect S bdy. of Tp. 9 lks. W. of cor. of secs.
3, 4, 33 & 34, heretofore described.
Thence I run
N 0°04' W on true line bet. secs. 33 & 34.
Over mountainous land through oak-
brush, descend.
10.25 Dog Valley Canyon 350 ft. below sec. cor.
Spring branch 1 lk. wide, 1 mi. deep, runs W.
19.00 Spur 250 ft. above canyon proj. N 80° W.
29.00 Draw 150 ft. below spur drains W.
30.00 Enter scattering cedar timber bears E & W.
34.50 Brush sheep corral bears E 2.00 chs.
35.00 Low spur 75 ft. above draw proj. W.
40.75 Draw 50 ft. deep drains W.
41.30 Set an iron post 3 ft. long, 1 in. diam. 26 in
in ground for 1/4 sec. cor. marked on brass cap
1/4 S 33 on W half; S 34 on E half; from which
A cedar tree, 6 in. diam. bears
East, 7 lks. dist. marked
1/4 S 34 B J
A cedar tree, 8 in. diam. bears
S 81° W, 22 lks. dist. marked 1/4 S 33 B J

Subdivision T24S R6W

49.00 Leave cedar, bears N70°W & S70°E.
58.00 Spur 240 ft. above 1/4 sec. cor. proj. S40°W.
65.00 Draw 180 ft. below spur drains S45°W.
81.30 The cor. of secs. 27, 28, 33 & 34.
Land, mountainous.
S10.00 chs. clay loam 3 to 16 in. deep fine texture, dry, clay subsoil.
N71.30 chs. sandy loam with stones & gravel
Timber cedar; undergrowth, oak.
July 8, 1911.

July 17, 1911. At 9 h 06 m. a. m. l. m. t. I set off 38°42' on the lat. arc; 21°20' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 27, 28, 33 & 34
Thence I run
N0°01' W bet. secs. 27 & 28.
Over mountainous land through oakbush ascend.
30.00 Begin abrupt ascent bears E & W.
38.00 Enter scattering mahogany & cedar bears E & W.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap
1/4 S28 on W half; S27 on E half; from which
A cedar tree, 3 ft. diam. bears
N87° E, 70 lks. dist. marked
1/4 S27 B.T.
A mahogany tree, 8 in. diam. bears
S47°30' W, 62 lks. dist. marked
1/4 S28 B.T.
45.00 Leave scattering cedar & mahogany bears E & W.
45.70 Ridge 1000 ft. above sec. cor. bears N80° E & S80° W., descend.
72.30 Draw 600 ft. below ridge drains N60° W.
75.80 Spur 110 ft. above draw proj. N60° W.
80.00 Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 21, 22, 27 & 28, marked on brass cap
T24S S21 in NW
R6W S22 in NE

Subdivision T 24 S R 6 W.

S 27 in SE
S 28 in SW, quadrant; raise a mound of stone 2 ft. base, 1½ ft. high, W of cor.
Pits impracticable
This cor. is 150 ft. below spur.
Land, mountainous.
Soil, sandy stony & gravelly, washed on slopes.
Timber, scattering cedar & mahogany.
Undergrowth, oak.
July 17, 1911. At this cor. I set off 21°19' N on the decl. arc; and at 12 h 06 m. p.m. l.m.t. observe the sun on the meridian, the resulting lat. is 38°43' N.

West on random line bet. secs. 21 & 28.
40.00 Set temp. ¼ sec. cor.
80.00 Intersect N & S line 14 lks N of cor. of secs. 20, 21, 28 & 29.
July 17, 1911. At 3 h 06 m. p. m. l. m. t. I set off 38°43' on the lat. arc; 21°18' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 20, 21, 28 & 29.
Thence I run
N 89°54' E on true line bet. secs. 21 & 28.
Over mountainous land through scattering cedar timber.
1.00 Leave cedar: enter oak brush bears N 30° W & S 30° E.
10.25 Draw 400 ft. deep drains N 20° W.
16.25 Spur 250 ft. above draw, proj. N 20° W.
Enter scattering mahogany bears N & S.
23.50 Draw 100 ft below spur drains N 25° W.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in in ground for ¼ sec. cor. marked on brass cap ¼ S 21 on N half; S 28 on S half; from which
A mahogany tree, 6 in. diam. bears
S 63°30' W, 1.50 chs. dist. marked
¼ S 28 B T
A mahogany tree, 10 in. diam. bears

Subdivision T24S R6W.

N 82°30' W, 1.68 chs. dist. marked
1/4 S21 B J.

45.00 Spur 600 ft. above draw proj. N 20° W.

54.00 Begin abrupt descent bears N & S, also leave mahogany.

62.50 Draw 400 ft. below spur drains N 20° E.

64.00 Spur 100 ft. above draw proj. N.

69.25 Draw 200 ft. below spur drains N 30° W.

80.00 The cor. of secs. 21, 22, 27 & 28.
This cor. is 250 ft. above draw.
Land, mountainous.
Soil, stony & gravelly with light sandy loam.
Timber, cedar; Undergrowth, oak and mahogany.

July 17, 1911.

July 21, 1911. At 9 h. 06 m. a. m. l. m. t. I set off 38° 43' on the lat. arc; 20° 38' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 21, 22, 27 & 28.
Thence I run
East on true line bet. frac. secs. 22 & 27.
Over mountainous land through oak brush, ascend abruptly.

16.60 Spur 550 ft. above sec. cor. proj. N 10° W

24.80 Draw 200 ft. below spur drains N 45° E.

32.90 Spur 250 ft. above draw proj. N 40° E, thence abrupt descent; enter scattering cedar timber bears N & S.

40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 22 on N half; S 27 on S half; from which
A cedar tree 18 in. diam. bears
S 57° W, 1.40 chs. dist. marked
1/4 S 27 B J
A cedar tree 14 in. diam. bears
N 5° W, 2.19 chs. dist. marked
1/4 S 22 B J

43.25 Draw 400 ft. below spur drains N 60° E.

Subdivision T24S R6W.

51.00 Spur 100 ft. above draw proj. N 45° E.
56.66 Intersect W. bdy. of T24S R5W 13.57 chs. S 0°03' W of cor. of secs. 18 & 19 heretofore described
Set an iron post, 3 ft. long, 2 in. diam. 24 in. in ground for closing cor. of secs. 22 & 27, marked on brass cap
T24S on N half
CC R5W S18 S19 on E half
R6W S27 in SW,
S22 in NW, quadrant; from which
Cedar tree 8 in. diam. bears
S 73° W, 1.78 chs. dist. marked
CC T24S R6W S27 BT
Cedar tree 20 in. diam. bears
N 52° W, 61 lks. dist. marked
CC T24S R6W S22 BT.
Land, broken mountainous.
Ridges, light poor sandy loam with gravel washed & stony on slopes.
Timber, cedar; undergrowth oak.

July 21, 1911. At cor. of secs. 21, 22, 27 & 28 I set off 20°36' N on the decl. arc; and at 12 h 06 m p.m. l. m. t. observe the sun on the meridian, the resulting lat. is 38°43' N.
Thence I run
N 0°01' W bet. secs. 21 & 22.
Over mountainous land through oak-brush, descend.
2.60 Draw 150 ft. below cor. drains N 80° W.
13.00 Spur 200 ft. above draw proj. N 80° W.
19.80 Draw 175 ft. below spur drains W.
31.70 Top of spur 250 ft. above draw proj N 70° W.
Enter scattering cedar bears N 20° W & S 20° E.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap
1/4 S21 on W half; S22 on E half; from which
Cedar tree 10 in. diam. bears
S 36° E, 1.07 chs. dist. marked
1/4 S22 BT

Subdivision T24SR6W

A cedar tree 8 in. diam. bears
S18°W, 96 lks. dist. marked
¼ S21 B.T.

56.00 Leave oak brush: enter heavy cedar bears
N40°W & S40°E.

72.00 Top of spur (main) 100 ft. below spur
proj. N40°W.

77.50 Leave heavy cedar timber bears N40°W &
S40°E.

80.00 Set an iron post 3 ft. long 2 in. diam. 24 in
in ground for cor. of secs. 15, 16, 21 & 22,
marked on brass cap
T24SS16 in NW
R6WS15 in NE
S22 in SE
S21 in SW, quadrant; from which
A cedar tree 6 in. diam. bears
S9°E, 1.00 ch. dist. marked
T24SR6WS22 B.T.
A cedar tree 8 in diam. bears
S17°W, 1.29 chs. dist. marked
T24SR6WS21 B.T.
No other trees suitable for marking so
raise a mound of stone 2 ft. base, 1½ ft high
W of cor. Pits impracticable.
Land, Broken mountainous.
Ridges, poor sandy soil, mixed with
limestone & gravel; slopes, washed & stony.
Timber, cedar; undergrowth, oak.
July 21, 1911.

July 22, 1911. At 8 h 36 m. a.m. l.m.t. I set off
38°43' on the lat. arc; 20°26' N on the decl.
arc; & determine a meridian with the solar
at the cor. of secs. 15, 16, 21 & 22.
Thence I run
S89°54' W on random line bet. secs. 16 & 21.

110.00 Set temp. ¼ sec. cor.

80.18 Intersect N & S line 76 lks. S of W.C. for secs.
16, 17, 20 & 21 or 26 lks. S of point for cor.

Subdivision T 24 S R 6 W.

Thence Drew
S 89° 55' E on true line bet. secs. 16 & 21.
Over rolling mountainous land through scattering cedar timber, juniper & oak brush, descend.
18.00 Spur 275 ft. above cor. proj. N 40° W.
31.50 Draw 200 ft. below spur drains N 40° W.
38.50 Spur 150 ft. above draw proj. N 20° W.
40.09 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 16 on N half; S 21 on S half; from which
A cedar tree 8 in. diam. bears
S 43° 30' E, 80 lks. dist. marked
1/4 S 21 B T
A cedar tree 6 in. diam. bears
N 21° W, 50 lks. dist. marked
1/4 S 16 B T
47.75 Draw 250 ft. below spur drains N 10° W.
Leave juniper & oak brush bears N & S.
69.00 Spur 400 ft. above draw proj. N 30° W.
80.18 The cor. of secs. 15, 16, 21 & 22.
Land, rolling mountainous, stony.
Ridges, sandy soil mixed with gravel & stones, washed on slopes; valleys, light-poor sandy loam, with gravel & stones, subsoil, gravel.
Timber, cedar; undergrowth juniper & oak
July 22, 1911. At this cor. I set off 20° 24' N on the decl. arc; and at 12 h. 06 m. p.m. l. m. t. observe the sun on the meridian, the resulting lat. is 38° 43' N.

East on true line bet. fract. secs. 15 & 22.
Over stony mountainous land, descend.
2.00 Enter oak brush bears N 40° W & S 40° E.
3.00 Draw 150 ft. below cor. drains N 40° W; leave oak brush; enter scattering cedar & juniper.
14.25 Spur 300 ft. above draw proj. N 10° W.
20.50 Draw 150 ft. below spur drains N 30° W.
35.25 Spur 300 ft. above draw proj. N 25° W.

Subdivision T 24 S R 6 W.

40.00 Set an iron post 3 ft. long, 1 in. diam. 24 in. in ground for 1/4 sec. cor. marked on brass cap
1/4 S 15 on N half; S 22 on S half; from which
A cedar tree, 20 in. diam. bears
N 80° E. 51 lks. dist. marked
1/4 S 15 B T
A cedar tree, 16 in. diam. bears
S 28° E, 45 lks. dist. marked
1/4 S 22 B T
45.00 Leave scattering cedar & juniper; enter oak brush bears N 30° W & S 30° E.
56.88 Intersect W bdy. of T 24 S R 5 W, 13.66 chs. S of cor. of secs. 7 & 18 heretofore described
Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for closing cor. of secs. 15 & 22 marked on brass cap
T 24 S on N half
C C R 5 W S 7 S 18 on E half
R 6 W S 22 in SW
S 15 in NW, quadrant; raise a mound of stone 2 ft. base, 1/2 ft. high W of cor.
Pits impracticable
Land, rolling & broken mountainous.
Soil is stony clay & gravel.
Timber, cedar; undergrowth oak & juniper.

July 22, 1911. At 3 h 06 m. p. m. l. m. t. I set off 38° 43' on the lat. arc; 20° 23' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 15, 16, 21 & 22.
Thence I run
N 0° 01' W bet. secs. 15 & 16.
Over mountainous land, descend.
11.50 Draw 150 ft. below cor. draws N 50° W; enter cedar timber, bears N 40° W & S 40° E.
10.00 Spur 200 ft. above draw, proj. N 45° W.
21.00 Draw 250 ft. below spur draws N 45° W.
38.00 Spur 280 ft. above draw proj. N 20° W.
40.00 Set an iron post 3 ft. long, 1 in. diam. 24 in. in ground for 1/4 sec. cor. marked on brass cap

Subdivision T24S R6W

1/4 S16 on W half; S15 on E half; from which
A cedar tree 8 in. diam. bears
S44° E. 28 lks. dist. marked
1/4 S15 B T
A cedar tree 8 in. diam. bears
N82° W, 31 lks. dist. marked
1/4 S16 B T.

42.00 Head of small draw drains E
53.00 Low spur on E slope proj. N75° E.
57.50 Draw 100 ft. below spur drains E.
70.00 Low spur on E slope proj. E.
80.00 Set an iron post 3 ft. long, 2 in. diam. 24 in in ground for cor. of secs. 9, 10, 15 & 16, marked on brass cap:
T24S S9 in NW
R6W S10 in NE
S15 in SE
S16 in SW, quadrant; from which
A cedar tree, 6 in. diam. bears
N9° E, 19 lks. dist. marked
T24S R6W S10 B T
A cedar tree, 10 in. diam. bears
S64° E, 26 lks. dist. marked
T24S R6W S15 B T
A cedar tree, 12 in. diam. bears
S44° W, 26 lks. dist. marked
T24S R6W S16 B T
A cedar tree 14 in. diam. bears
N87° W, 12 lks. dist. marked
T24S R6W S9 B T.

Land, rolling mountainous.
Ridges, sandy loam; slopes with some clay & gravel; valleys, gravelly.
Timber, cedar.

June 22, 1911.

July 24, 1911. At 8h 06m a.m. l.m.t. I set off 38° 44' on the lat. arc; 20° 03' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 9, 10, 15 & 16.

Subdivision T 24 S R 6 W

	Thence I run
	N 89° 55' W on random line bet. secs. 9 & 16.
40.00	Set temp. 1/4 sec. cor.
79.88	Intersect N & S line 14 lks. S of cor. of secs 8, 9, 16 & 17.
	Thence I run
	S 89° 49' E on true line bet. secs. 9 & 16.
	Over rolling land through cedar timber, & sage brush.
13.00	Wash 8 ft. deep 30 lks. wide drains N 70° W.
18.00	Enter mountainous land bears N 40° E & S 40° W.
20.50	Wood road bears N 30° W & S 50° E.
35.50	James Wolfe's prospect hole bears S 2.92 chs.
36.70	Spur 150 ft. high prof. N 30° W.
39.94	Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 9 on N half; S 16 on S half; from which
	A cedar tree 5 in. diam. bears S. 82° W, 8.9 lks. dist. marked 1/4 S 16 B J
	A cedar tree 10 in. diam. bears N 23° W, 1.07 chs. dist. marked 1/4 S 9 B J.
42.50	Draw 150 ft. below spur drains N 30° W.
51.50	Spur 200 ft. above draw prog. N 20° W.
57.00	Draw 150 ft. below spur drains N 20° W.
72.00	Spur 250 ft. above draw prog. N 10° W.
79.88	The cor. of secs. 9, 10, 15 & 16.
	This cor. is 200 ft. below a spur.
	W 18.00 chs. gently rolling land. NW slope Soil, light poor sandy loam, with some gravel 5 to 10 in. deep, coarse texture, dry, gravel subsoil.
	E 61.88 chs. broken & hilly.
	Ridges & slopes, sandy loam with gravel & stones; valleys, gravelly soil.
	Timber, cedar.
	East on true line bet. fract. secs. 10 & 15
	Over rolling mountainous land through

Subdivision T24S R6W.

Chains	
	cedar timber, descend.
5.80	Wood road bears N10°W & S10°E.
10.60	Wash in Wide Mouth Canyon, 10 ft. deep 50 lks. wide, drains N10°W, ascend gently.
16.20	Mouth of small draw drains N80°W.
34.00	Begin abrupt ascent bears N & S.
40.00	Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S10 on N half; S15 on S half; from which
	A cedar tree 8 in. diam. bears N63°E, 28 lks. dist. marked 1/4 S10 B T.
	A cedar tree, 6 in. diam. bears S44°W, 22 lks. dist. marked 1/4 S15 B T.
44.00	Top of abrupt ascent, thence gentle ascent bears N40°W & S40°E.
49.00	Enter juniper & oak brush bears N80°W & S80°E.
51.00	Top of spur 400 ft. high proj. N40°W.
57.25	Intersect W. bdy. of T24S R5W 14.94 chs. S0°08'W of cor. of secs. 6 & 7 heretofore described. Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for closing cor. of secs. 10 & 15 marked on brass cap
	T24S on N half
	CC R5W S6 S7 on E half
	R6W S15 in SW
	S10 in NW, quadrant; from which
	A cedar tree, 6 in. diam. bears S85°W, 2.30 chs. dist. marked CC T24S, R6W S15 B T
	A cedar tree, 5 in. diam. bears N57°30'W, 1.87 chs. dist. marked CC T24S R6W S10 B T.
	Land, broken & hilly.
	Ridges & slopes, light sandy loam with some gravel; valleys, good clay loam with some gravel; subsoil, gravel & clay
	Timber, cedar; undergrowth oak & juniper.
	July 24, 1911. At this cor. I set off 20°55' N on

Subdivision T24S R6W.

Chains	
	the decl. arc; & at 12 h 6 m p.m. l.m.t. observe the sun on the meridian, the resulting lat. is 38° 44' N.
	July 24, 1911. At 2 h 06 m. p.m. l.m.t. I set off 38° 44' on the lat. arc; 19° 59' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 9, 10, 15 & 16.
	Thence I run
	N 0° 01' W bet. secs. 9 & 10.
	Over rolling mountainous land along E slope through cedar timber.
21.75	Wood road bears N 30° W & S 30° E.
25.50	Wash, from Wide Mouth Canyon, 10 ft. deep 50 lks. wide, drains N 40° W.
40.00	Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 9 on W half; S 10 on E half; from which
	A cedar tree 18 in. diam. bears
	S 89° E. 28 lks. dist. marked
	1/4 S 10 B T.
	A cedar tree, 10 in. diam. bears
	West. 32 lks, marked
	1/4 S 9 B T.
50.50	Spur 100 ft. high proj. N 60° W.
54.60	Draw 100 ft. deep drains N 60° W.
68.00	Spur 100 ft. high proj. N 60° W.
74.50	Wood road bears N 50° W & S 50° E.
79.50	Wash 10 ft. deep, 50 lks. wide drains N 70° W.
80.00	Falls in wash.
80.40	Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for W.C. to secs. 3, 4, 9 & 10 marked on brass cap
	W.C. on N half
	T24S S4 in NW
	R6W S3 in NE
	S10 in SE
	S9 in SW, quadrant; from which
	A cedar tree, 12 in. diam. bears
	N 88° E, 1.35 chs. dist. marked

Subdivision T24SR6W

WC T24SR6W S3 B.T.
A cedar tree 6 in. diam. bears
S 6° E. 1.39 chs. dist. marked
WC. T24SR6W S10 B.T.
A cedar tree 6 in. diam. bears
S 33° W, 72 lks. dist. marked
WC T24SR6W S9 B.T.
A cedar tree, 8 in. diam. bears
N 75° W, 1.62 chs. dist. marked
WC T24SR6W S4 B.T.

Land, rolling mountainous.
Ridges & slopes, sandy loam with some gravel; valleys, good brown clay loam 5 to 40 in. deep, medium texture, dry, clay & gravel subsoil.
Timber, cedar.

July 24, 1911.

July 25, 1911. At 9 h. 6 m. a.m. l.m.t. I set off 38° 45' on the lat. arc; 19° 49' N on the decl. arc; & determine a meridian with the solar at the cor of secs. 3, 4, 9 & 10.
Thence I run
N 89° 49' W on random line bet. secs. 4 & 9.
40.00 Set temp. 1/4 sec. cor.
79.79 Intersect N & S line 5 lks. N. of cor. of secs. 4, 5, 8 & 9.
Thence I run
S 89° 51' E on true line bet. secs. 4 & 9.
Over gently rolling land through scattering cedar timber & sagebrush.
1.00 Leave scattering cedar bears N 30° W & S 30° E.
19.79 Wood road bears N 20° W & S 20° E.
22.80 Wash 1 ft. deep 50 lks. wide drains N 40° W.
23.17 Wire fence bears N & S.
37.00 Enter scattering cedar bears N & S.
39.89½ Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 4 on N half; S 10 on S half; from which
A cedar tree, 6 in. diam. bears

Subdivision T 24 S R 6 W.

S 40° E, 2.23 chs. dist. marked
1/4 S 9 B T.
A cedar tree 8 in. diam. bears
N 68° W, 1.00 ch. dist. marked
1/4 S 4 B T

53.80 Enter thick cedar timber bears N & S.
71.47 Wood road bears N 80° W & S 80° E.
73.50 Leave thick; enter scattering cedar bears N & S.
79.79 Intersect N & S line at point 40 lks. S of W. C for secs. 3, 4, 9 & 10.
Land, gently rolling, W slope.
Soil, good brown clay loam, 4 to 14 in. deep, medium texture, dry, clay & gravel subsoil.
Timber, cedar; undergrowth, sagebrush.

From a point 40 lks. S of W.C. to secs. 3, 4, 9 & 10.
I run East on true line bet. frac. secs. 3 & 10.
Over rolling land through scattering cedar timber & sagebrush.
0.60 Top of bank of wash bears N 30° W & S 30° E.
9.50 Wood road bears N 30° W & S 30° E.
23.00 Spur 150 ft. above cor. proj. N 50° W
35.60 Draw 75 ft. below spur drains N 30° W.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 3 on N half; S 10 on S half; from which
A cedar tree 5 in. diam. bears
N 5° 30' E, 1.26 chs. dist. marked
1/4 S 3 B T.
A cedar tree 8 in. diam. bears
S 14° W, 1.05 chs. dist. marked
1/4 S 10 B T.
July 25, 1911. At this cor. I set off 19° 48' N on the decl. arc; & at 12 h. 6 m. p.m. l. m. t. observe the sun on the meridian, the resulting lat. is 38° 45' N.
44.00 Spur 85 ft. above 1/4 sec. cor. proj. N. 20° W.

51.60 Draw 170 ft. below spur drains N 30° W.
57.17 Intersect W. bdy. of T24S R5W, 24.64 chs. N 1° 08' W of 1/4 sec. sec. cor. on W. bdy. sec. 6, heretofore described.
Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for closing cor. of secs. 3 & 10 marked on brass cap
T24S on N half
CC R5W S6 on E half
R6W S10 in SW
S 3 in NW, quadrant; from which
A cedar tree 16 in. diam. bears
S 53° W, 1.15 chs. dist. marked
CC T24S R6W S3 1/10 B.T.
A cedar tree, 10 in. diam. bears
N 35° 30' W, 92 lks. dist. marked
CC T24S R6W S3 B.T.
Land, rolling & hilly.
Ridges & slopes, light sandy loam with stones & gravel; valleys, good brown clay loam, subsoil gravel.
Timber, cedar; undergrowth sagebrush.

July 25, 1911. At 2 h 6 m. p.m. l. m. t. I set off 38° 45' on the lat. arc; 19° 47' N on the decl. arc; & determine a meridian with the solar at the cor of secs. 3, 4, 9 & 10.
Thence I run
N 0° 01' W bet. secs. 3 & 4.
Over gently rolling land through scattering cedar timber & sagebrush.
6.30 Wood road bears N 70° W & S 70° E.
38.25 Wash 8 ft. deep 40 lks. wide drains W.
Enter rolling mountainous land bears E & W, ascend.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S4 on W half; S3 on E half; from which
A cedar tree 5 in. diam. bears
N 37° E. 1.47 chs. dist. marked 1/4 S3 B.T.

Subdivision T24S R6W.

A cedar tree 16in. diam. bears
N20°W, 2.09chs. dist. marked
1/4 S4 B J.

77.40 Top of peak on spur 450 ft. above base of mts. proj. W; abrupt descent through thick scrubby cedar.

86.50 Intersect N bdy. of Tp. 3.94 chs. N89°19'W of cor. of secs. 3, 4, 33 & 34, heretofore described
Set an iron post 3 ft. long, 2in. diam. 24 in. in ground for closing cor. of secs. 3 & 4 marked on brass cap
CC T23S R6W S33 S34 on N half
S3 in SE
S4 in SW, quadrant; from which
A cedar tree 10in. diam. bears
S62°E. 32 lks. dist. marked
CC T24S R6W S3 B J
A cedar tree 9in. diam. bears
S69°W, 35 lks. dist. marked
CC T24S R6W S4 B J.

S 38.25chs. rolling land, W slope.
Soil, good brown clay loam, 5 to 15in. deep medium texture, dry; clay subsoil.
N 58.25chs. broken & hilly.
Soil, light poor sandy loam, with gravel & stones.
Timber, cedar; undergrowth, sagebrush.

July 25, 1911.

John W. Dougall
Transitman

General Description

This fractional township contains a variety of land from gently rolling to mountainous, and the soil ranges from gravel to good brown clay loam.

The soil of the rolling land is generally rich clay loam capable of producing from small to medium crops of wheat rye or corn under modern methods of dry farming.

The mountains have a growth of cedar timber, oak brush & juniper, while the lowlands have a growth of white sage & sagebrush.

There is no water for irrigation. The only water in this fractional township is a small spring branch in Dog Valley Canyon which at the present time sinks soon after entering sec. 33.

There is a wire fence which incloses a field as follows: the SW. cor. of sec. 4, southern part of sec. 5, SE part of sec. 6, all of sec 7 except the extreme NW cor, north & western part of sec. 8, the extreme NW cor. of sec. 9, the extreme NW quarter of sec. 17, and the northern part of sec. 18.

This field is known as the Ray, Giles, Greenwood Field.

I found no corners to indicate the exact land claimed individually by Clinton D Ray, Joseph E Ray, Joseph S. Giles, and Samuel A Greenwood.

There are corn, peas, wheat & rye growing in this field.

There are two wells, a galvanized water tank and a frame for a tank in the NW quarter of sec. 7.

No water was found in either well: one was 100 ft. deep.

Of the 120 acres inside this field that had been planted, some of the ground

General Description

had not been plowed, simply sown to rye & gone over with a disc harrow.

The estimated value of improvements are as follows.

Fences	$450.00
Wells	200.00
Plowing & planting	500.00

There is only one man living in this township at the present time, a miner at the Jewkes Mine in the SE quarter of sec. 20.

This mine has produced some iron and there are indications of lead and silver.

There are two other prospects in this fractional township, the Mohawk in SW quarter of sec. 5, & the James Wolfe in NW quarter of sec. 16.

Part of the wood supply for Hancock is taken from this fractional township.

There are indications of mineral in the S.W. 1/4 of sec. 5. in the N.W. quarter of sec. 16 in the W half of sec. 21 and the E. half of sec 20

John W. Dougall
U. S. Transitman

4—080

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, John W. Dougall, U. S. ~~Surveyor~~ Transitman, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of the West, North, South and East Boundaries and Subdivisional lines of Township No. 24 South, Range No. 6 West

of the Salt Lake Base and Meridian, in the State of Utah which are represented in the foregoing field notes as having been executed 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 executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	
Wilford W. Clyde	June 26, 1911	July 31, 1911	Chainman.
Willis C. Kitsmore	June 26, 1911	July 10, 1911	Chainman.
Royle G. Goodsell	July 11, 1911	July 29, 1911	Chainman.
Royle G. Goodsell	July 1, 1911	July 10, 1911	Flagman.
Arthur Hasley	July 10, 1911	July 27, 1911	Moundman.
Arthur Hasley	" " "	" " "	Axman.
Alonzo Turner	July 10, 1911	July 16, 1911	Axman.

Subscribed and certified to before me on the dates of the final service as shown above.

John W. Dougall U. S. ~~Surveyor~~ Transitman.

6—2761

FINAL OATH OF UNITED STATES SURVEYOR.

I, John W. Dougall, U. S. ~~Surveyor~~ Transitman, do solemnly swear that, in pu
of special instructions received from the U. S. Surveyor General for Utah
bearing date of the 27 day of March, 1911, I have well, faithfully, an
in my own proper person, and in strict conformity with said instructions, the Manual of Su
Instructions, and the laws of the United States, surveyed all those parts or portions of the re
of the West, retracement of North; retracement and resurvey of Eas
boundaries; and the Subdivisional lines of Township No. 24 South,
No. 6 West

of the Salt La
Base and Meridian, in the State of Utah, which are represe
the foregoing field notes in books A. & B. as having been executed by me, and under my direction; and I do
solemnly swear that all the corners of said survey have been established and perpetuated in strict
ance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Su
General for Utah and in the specific manner described in the field notes, a
the foregoing are the original field notes of such survey.

John W. Dougall
~~U. S. Surve~~
United States Tr

Subscribed by said John W. Dougall, and sworn to before me
this 17 day of April, 1912

SEAL

U.S. Surveyor-General
for Utah.

APPROVAL.

Office of the United States Surveyor General,

Salt Lake City, Utah, June 30

The foregoing field notes of the survey of the Subdivisional lines of Town
No. 24 South, Range No. 6 West of the Salt Lake Base and Meridian,

executed by John W. Dougall
under his special instructions dated March 27, 1911, havi
critically examined, and the necessary corrections and explanations made, the said field notes, a
surveys they describe, are hereby approved.

U. S. 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 o

U. S. Surveyor Gen

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Page

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Page

Filed June 8th 1912
K.J.B.
a.K.g

4—679

"E"

BOOK A-380

FIELD NOTES

Dec. 23-1912

OF THE SURVEY OF THE

Part of the South and the West Boundaries

of

Township No. 13 South, Range No., 4 West

Of the Salt Lake Base and *Meridian,*

In the State of UTAH

EXECUTED BY

John W. Dougall

In the capacity of U. S. ~~*Surveyor*~~ Transitman, *under instructions dated* March, 27, *1911, issued by the United States Surveyor General to govern surveys included in Group No.* 10 UTAH, *which were approved by the Commissioner of the General Land Office,* April 22, *1911, pursuant to authority contained in the Act of Congress dated* ....., *191*

Survey commenced August 31, 1911, ~~*191*~~

Survey completed September, 4, 1911., ~~*191*~~

6—151

Retr. of Bdy - 1-40-62 ✓
of Bdy 1-44-10 ✓
W. Bdy 6-05-17 ✓

BOOK A-380

INDEX DIAGRAM.

Township 13 South, Range 4 West

5	6	5	4	3	2	1
5	7	8	9	10	11	12
6	18	17	16	15	14	13
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9	31	32	33	34	35	36
	4	2	1			

6—151

South Boundary T13 S R 4 W.

Survey commenced Aug. 31, 1911 & executed with a W & L. E. Gurley light mountain transit, no number, with solar attachment. For full description of instrument see Book A. (Page 197)

Knowing that my instrument is in perfect adjustment from recent observations on Polaris,

Aug. 31, 1911. At 8 h 45 m. a. m. l. m. t. I set off 39° 38' on the lat. arc; 8° 55' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 3, 4, 33 & 34 on S. bdy. of Tp., which is a limestone 10 x 10 x 6 in. above ground firmly set marked & witnessed as described by the Surveyor General.

Thence I run

West on retracement line bet. secs. 4 & 33.

Over gently rolling land, W slope.

40.37 Fall 26 lks. S of old 1/4 sec. cor. which is a limestone 10 x 8 x 5 in. above ground plainly marked, but loosely set & not witnessed.

I destroy all traces of the old cor. and re-establish it at same point as follows

Set an iron post 3 ft. long, 1 in. diam. 2 6 in in ground for 1/4 sec. cor. marked on brass cap 1/4 S 33 on N half; S 4 on S half; dig pits 18 18 x 12 in. E & W of post, 3 ft. deep; & raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high; N of cor.

Therefore the course of this line is N 89° 38' W.

Moved to cor.

Thence I run

West on retracement line bet. secs. 4 & 33.

29.00 Road, Leamington to Silver City, bears N 20° W & S 20° E.

39.23 Wire fence bears N 18° 35' E & S 18° 35' W; enter right of way.

40.00 Fall 15 lks. S of remains of cor. of secs. 4, 5, 32 & 33 which is a limestone badly broken

South Boundary T13S R4W.

& not witnessed and on account of old cor. being near burrow pit for R. R. Grade I perpetuate the point for cor. as follows: Deposit a limestone 6x8x10 in. marked 4 notches on E & 2 notches on Wedge, 27 in. in ground and re establish a witness cor. to secs. 4, 5, 32 & 33 at 77 lks. S 89° 47' E of true point for cor. as follows:
Set an iron post 3 ft. long, 3 in. diam. 24 in in ground for witness cor. to secs. 4, 5, 32 & 33 marked on brass cap
T13S S32 in NW
W C R4W S33 in NE
R4W S4 in SE
T14S S5 in SW, quadrant; from which
A lone cedar, 6 in. diam. bears
N 28° 30' E, 48 lks. dist. marked
W.C. T13S R4W S33 B.T.
No other trees in limits; Dig pits 18x18x12 in in each sec. 5½ ft. dist. & raise a mound of earth 4 ft. base, 2 ft. high W of cor.
From this W.C. switch stand at S. end of Champlin siding bears N 3° 18' W, 3.66 chs. dist.
Therefore the course of this line is N 89° 47' W.
Land, gently rolling, W slope.
Soil, sandy loam, 7 to 20 in. deep, medium texture, dry, clay subsoil.
No timber.

From true point for cor. of secs. 4, 5, 32 & 33
Run
West on retracement line bet. secs 5 & 32
Over gently rolling land across R. R. right of way
0.45 Center of S.P.L.A. & S.L. R.R bears N 18° 35' E & S 18° 35' W.
1.18 W.W. Telegraph line bears N 18° 35' E and S 18° 35' W.
2.05 Wire fence: leave right of way bears N 18° 35' E

South Boundary T13S R4W

& S.18°35'W.
Set an iron post 3 ft. long, 3 in. diam. 24 in. in ground for witness cor. to secs. 4, 5, 32 & 33 marked on brass cap
T13S S32 in NW
W.C. R4W S33 in NE
R4W S4 in SE
T14S S5 in SW, quadrant; dig pits 18x18x12 in. in each sec. 5½ ft. dist; & raise a mound of earth 4 ft. base, 2 ft. high, W of cor.
8.00 Enter sand hills & sinks from Intic Valley bears N20°E & S20°W.
12.00 Enter scattering cedar bears N30°E & S30°W.
40.25 Intersect old ¼ sec. cor. which is a limestone 16x8x6 in. above ground poorly marked & not witnessed.
I destroy all traces of the old cor. and re-establish it at same point as follows:
Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for ¼ sec. cor. marked on brass cap ¼ S32 on N half; S5 on S half; from which
A cedar tree 12 in. diam. bears
N 6°E, 1.07 chs. dist. marked
¼ S32 B T
A cedar tree, 12 in. diam. bears
S54°W, 61 lks. dist. marked
¼ S5 B T
From this ¼ sec. cor. SW cor. of Peter Mayers wire fence bears N31°50'W, 2.20 chs. dist.
Thence Run
West on true line bet. secs. 5 & 32.
Over sand hills & sinks from Intic Valley through scattering cedar timber.
40.00 Set an iron post 3 ft. long, 3 in. diam. 24 in. in ground for cor. of secs. 5, 6, 31 & 32 marked on brass cap
T13S S31 in NW
R4W S32 in NE
R4W S5 in SE
T14S S6 in SW, quadrant; from which

South Bdy T13S R4W

A cedar tree 10 in. diam. bears
N61°08'E, 6.89 chs. dist. marked
T13S R4W S32 B T.
A cedar tree, 24 in. diam. bears
S47°30'E, 5.36 chs. dist. marked
T14S R4W S5 B T
A cedar tree, 6 in. diam. bears
S30°30'W, 9.21 chs. dist. marked
T14S R4W S6 B T
A cedar tree 20 in. diam. bears
N32°30'W, 9.18 chs. dist. marked
T13S R4W S31 B T
Land, gently rolling.
Soil, light poor sandy loam 5 to 20 ft. deep
medium texture, dry, clay subsoil.
Timber, cedar.

West on true line bet. secs. 6 & 31.
Over sandhills & sinks from Tintic Valley,
through scattering cedar.
3.00 Leave scattering cedar bears N & S.
10.00 Enter drifting sand hills bears N30°E & S30°W.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in.
in ground for 1/4 sec. cor. marked on brass cap
1/4 S31 on N half; S6 on S half; dig pits 18x18x
12 in. E & W of post, 3 ft. dist; & raise a mound
of earth 3½ ft. base, 1½ ft. high, N of cor.
80.00 Set temp. cor. for cor. of Tps 13 & 14 S Rs 4 & 5 W.

Aug. 31, 1911. At this temp. cor. I set off 8°52'N
on the decl. arc; & at 12 h 01 m. l. m. t. observe
the sun on the meridian the resulting
lat is 39°38'. Tp. cor. afterward made permanent at
84.10 (See W. bdy.)

Aug. 31, 1911. From temp. cor. of Tps. 13 & 14 S,
Rs 4 & 5 W.
I run
North on a random line along the W. bdy
of T13S R4W setting temp. 1/4 and sec.
cors. at intervals of 40.00 chs. and at

West Boundary T13S R4W

485.17 chs. intersect S. bdy. of T12S R4W
4.10 chs. E of cor. of Tps. 12 & 13 S Rs 4 & 5 W, which I established Aug. 10, 1911.
Sept. 1, 1911.

Sept 2, 1911. I abandon random line.
At 8 h 00 m. a.m. l. m. t. I set off 39° 45' on the lat. arc; 8° 12' N on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 12 & 13 S Rs 4 & 5 W, which I established Aug. 10, 1911.
Thence I run
South on true line bet. secs. 1 & 6.
Over drifting sandhills.
45.17 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S1 on W half; S6 on E half; dig pits 18 x 18 x 12 in. N & S of post 3 ft. dist; & raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W of cor.
85.17 Set an iron post 3 ft. long 3 in. diam. 24 in. in ground for cor. of secs. 1, 6, 7 & 12 marked on brass cap
T13 S on N half
R5 W S1 in NW
R4 W S6 in NE
S7 in SE
S12 in SW quadrant; dig pits 18 x 18 x 12 in. in each sec. 5 1/2 ft. dist; & raise a mound of earth 4 ft. base, 2 ft. high, W of cor.
Land, drifting sand hills.
Soil, drifting sand.
No timber.

South on true line bet. secs. 7 & 12.
Over drifting sandhills.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S12 on W half; S7 on E half; dig pits

West Boundary T 13 S R 4 W.

18 x 18 x 12 in. N & S of post 3 ft. dist; & raise a mound of earth 3½ ft. base, 1½ ft. high, W of cor.

55.00 Leave drifting sandhills; enter sagebrush & greasewood bears N 40° E & S 40° W.

78.00 Enter scattering cedar bears N 60° W & S 60° E.

80.00 Set an iron post 3 ft. long, 3 in. diam., 24 in. in ground for cor. of secs. 7, 12, 13 & 18 marked on brass cap,

T 13 S on N half
R 5 W S 12 in NW
R 4 W S 7 in NE
S 18 in SE
S 13 in SW, quadrant; from which
A cedar tree 4 in. diam. bears
S 40° E, 71 lks. dist. marked
T 13 S R 4 W S 18 B T
A cedar tree 6 in. diam. bears
S 30° W, 1.72 chs. dist. marked
T 13 S R 5 W S 13 B T
A cedar tree, 16 in. diam. bears
N 52° W, 3.15 chs. dist. marked
T 13 S R 5 W S 12 B T.

No other trees in limits; Dig pits 18 x 18 x 12 in. in each sec. 5½ ft. dist; & raise a mound of earth 4 ft. base, 2 ft. high, W of cor.

N 55.00 chs. drifting sandhills.

S 25.00 chs. gently rolling land.

Soil, poor sandy loam, 6 to 20 in. deep, medium texture, dry, clay subsoil.

Timber, cedar on S 2.00 chs.

Undergrowth, sagebrush.

Sand storm prevented further work on this day.

Sept. 2, 1911.

Sept. 4, 1911. At 8 h 30 m. a. m. l. m. t. I set off 39° 42 on the lat. arc; 7° 28' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 7, 12, 13 & 18.

West Boundary T13S R4W.

Thence I run
South on true line bet. secs. 13 & 18.
Over gently rolling land through scattering
cedar & sagebrush.
30.00 Leave rolling; enter mountainous land bears
E & W, ascend.
39.15 Top of spur 75 ft. high, proj. E.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in.
in ground for 1/4 sec. cor. marked on brass
cap 1/4 S13 on W. half; S18 on E half; from which
A cedar tree 12 in. diam. bears
N 30° E, 97 lks. dist; marked
1/4 S18 B T
A cedar tree 16 in. diam. bears
N 52° W, 59 lks. dist. marked
1/4 S13 B T
46.00 Draw 85 ft. below spur drains E.
69.00 Ridge of Little Mountain 250 ft. above
draw bears N 50° W & S 50° E.
74.00 Head of draw 75 ft. below ridge drains S40°W
80.00 Set an iron post 3 ft. long, 3 in. diam. 24
in. in ground for cor. of secs. 13, 18, 19 & 24
marked on brass cap
T13 S on N half
R5W S13 in NW
R4W S18 in NE
S19 in SE
S24 in SW, quadrant; from which
A cedar tree 4 in. diam. bears
N 36° E, 46 lks. dist. marked
T13 S R4W S18 B T
A cedar tree, 10 in. diam. bears
S 41° E, 22 lks. dist. marked
T13 S R4W S19 B T
A cedar tree, 8 in. diam. bears
S 63° W, 83 lks. dist. marked
T13 S R5W S 24 B T
A cedar tree, 10 in. diam. bears
N 49° W, 71 lks. dist. marked
T13 S R5W S13 B T

West Boundary T 13 S R 4 W.

N 30.00 chs. gently rolling land
Soil, light sandy loam 10 to 40 in. deep
medium texture, dry, clay subsoil.
S 50.00 chs. broken & hilly.
Soil, light poor drifting sand on lime-
stone subsoil.
Timber, cedar; undergrowth, sagebrush.

South on true line bet. secs. 19 & 24.
Over broken mountainous land through
scattering cedar.
0.50 Top of spur 30 ft. above cor. proj. S 20° W.
12.00 Foot of mountains; enter rolling land
bears N 60° E & S 60° W.
30.00 Leave scattering cedar; enter scattering
sagebrush & greasewood bears N 20° E & S 20° W.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in.
in ground for 1/4 sec. cor. marked on brass cap
1/4 S 24 on W half; S 19 on E half; dig pits 18 X 18
X 12 in. N & S of post 3 ft. dist; & raise a mound
of earth 3 1/2 ft. base, 1 1/2 ft. high, W of cor.
Sept. 4, 1911. At this cor. I set off 17° 24' N on
the decl. arc; and at 11 h 59 m. 4 s. l. m. t. observe
the sun on the meridian, the resulting
lat. is 39° 40'.
80.00 Set an iron post 3 ft. long, 3 in. diam. 24
in. in ground for cor. of secs 19, 24, 25 & 30
marked on brass cap
T 13 S on N half
R 5 W S 24 in NW
R 4 W S 19 in NE
S 30 in SE
S 25 in SW, quadrant; dig pits 18 X 18 X 12
in. in each sec. 5 1/2 ft. dist; & raise a mound
of earth 4 ft. base, 2 ft. high, W of cor.
N 12.00 chs. broken & hilly land.
Soil, light poor drifting sand, on lime-
stone subsoil.
S 68.00 chs. gently rolling land & slopes.
Soil, light poor sandy loam, 4 to 24 in.

West Boundary T13S R4W

deep, medium texture, dry, clay subsoil.
Timber, cedar.

Sept 4, 1911. At 2 h 00 m. p. m. l. m. t. I set off 39°40' on the lat. arc; 7°23' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 19, 24, 25 & 30.
Thence I run
South on true line bet. secs. 25 & 30.
Over gently rolling land through scattering sagebrush & greasewood.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 25 on W half; S 30 on E half; dig pits 18 X 18 X 12 in. N & S of post 3 ft. dist; & raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W of cor.
41.00 Leave scattering sagebrush & greasewood enter drifting sandhills bears E & W.
80.00 Set an iron post 3 ft. long, 3 in. diam. 24 in. in ground for cor. of secs. 25, 30, 31 & 36, marked on brass cap
T13S on W half
R5W S25 in NW
R4W S30 in NE
S31 in SE
S36 in SW, quadrant; dig pits 18 X 18 X 12 in. in each sec. 5 1/2 ft. dist; & raise a mound of earth 4 ft. base, 2 ft. high, W of cor.
N 41.00 chs. gently rolling land.
Soil, light poor sandy loam, 10 to 20 in. deep, fine texture, dry, clay subsoil.
S 39.00 chs. drifting sandhills.
No timber; undergrowth scattering sagebrush & greasewood.

South on true line bet. secs. 31 & 36.
Over drifting sandhills.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap

West Boundary T13 S R4W

	1/4 S 36 on W half; S 31 on E half; dig pits 18 x18x12 in N & S of post, 3 ft. dist; & raise a mound of earth 3½ ft. base, 1½ ft. high, W of cor.
80.00	Intersect S. Bdy. of Tp. 4.10 chs. W. of temp cor. of Tps. 13 & 14 S, Rs 4 & 5 W, previously est. I destroy all traces of temp. cor. and at my intersection Set an iron post 3 ft. long 3 in. diam. 24 in. in ground for cor. of Tps. 13 & 14 S Rs 4 & 5 W marked on brass cap T13 S on N half T14 S on S half R5W S36 in NW R4W S31 in NE R4W S6 in SE R5W S1 in SW, quadrant; dig pits 24 x24x12 in. on each line, N. E & W, 4 ft. & S of post, 8 ft. dist; & raise a mound of earth 5 ft. base, 2½ ft. high, S of cor. Land, sandhills. Soil, drifting sand. No timber. Sept. 4, 1911.

Latitudes Departures & Closing Errors.

e designated	True bearing	Distance	Latitudes N	Latitudes S	Departures E	Departures W
		chs.	chs.	chs.	chs.	chs.
dy sec 33	N89°38'W	40.37	26			40.37
dy sec. 33	N89°47'W	40.00	15			40.00
dy secs. 31 & 32	West	164.35				164.35
dy. T13SR4W	North	485.17	485.17			
dy. secs. 2,3,4,5 & 6	East	406.10			406.10	
dy sec. 2	S0°13'W	40.31		40.31		15
dy sec 2.	S0°13'W	40.48		40.48		15
dy sec. 11	S0°16'W	40.60		40.60		19
dy sec. 11	S0°45'W	41.70		41.70		55
dy sec. 11	S89°47'W	80.57		30		80.57
dy sec. 15	South	80.42		80.42		
dy sec. 22	South	80.21		80.21		
dy sec. 22	S89°57'W	80.09		.07		80.09
dy sec. 28	S0° 48'W	79.91		79.90		1.12
dy sec. 33	S0° 33'E	81.32		81.32	.78	
vergency					40	
			485.58	485.31	407.28	407.54
			485.31			407.28
		Error in lat	.27		Error in Dep't	.26

John W. Dougall
U. S. Transitman

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4—680

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, ..., U. S. Surveyor, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of .....

For certificate of assistants see book "F" T.13 S., R.4 W.

of the ..... Meridian, in the State of .....

which are represented in the foregoing field notes as having been executed 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 executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	

Subscribed and certified to before me on the dates of the final service as shown above.

.....

6—2701 *U. S. Surveyor.*

FINAL OATH OF UNITED STATES SURVEYOR.

I, ..., U. S. Surveyor, do solemnly swear that, in purs
of special instructions received from the U. S. Surveyor General for .....
bearing date of the ..... day of ....., 191 , I have well, faithfully, and
in my own proper person, and in strict conformity with said instructions, the Manual of Sur
Instructions, and the laws of the United States, surveyed all those parts or portions of .....

For final oath of transitman see book "F" T.13 S., R.4 W.

..... of the .....
..... Meridian, in the State of ....., which are represe
the foregoing field notes as having been executed by me, and under my direction; and I do f
solemnly swear that all the corners of said survey have been established and perpetuated in strict a
ance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Su
General for ..... and in the specific manner described in the field notes, a
the foregoing are the original field notes of such survey.

.....
U. S. Surve

Subscribed by said ....., and sworn to before me
this ..... day of ....., 191

SEAL

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 30, 1

The foregoing field notes of the survey of part of the South, and the West
ry of Township No. 13 South, Range No. 4 West of the Salt Lake Base
Meridian, Utah,

executed by John W. Dougall
under his special instructions dated March 27, 191 1, havin
critically examined, and the necessary corrections and explanations made, the said field notes, a
surveys they describe, are hereby approved.

U. S. 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 o

U. S. Surveyor Gen

6—2761

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Page

4—679

"F"

BOOK A-380

M.S.B.

FIELD NOTES

OF THE SURVEY OF THE

FRACTIONAL

SUBDIVISION OF FRACTIONAL

TOWNSHIP NO. 13 SOUTH ,RANGE NO.4 WEST

Of the Salt Lake Base and *Meridian,*

In the State of Utah

EXECUTED BY

John W. Dougall,

In the capacity of U. S. ~~Surveyor~~ Transitman *under instructions dated* March,27,1911 *191*, *issued by the United States Surveyor General to govern surveys included in Group No.* 10 Utah, *which were approved by the Commissioner of the General Land Office,* April 22, *1911*, *pursuant to authority contained in the Act of Congress dated* *191*

Survey commenced September ,5,1911 *191*

Survey completed September 14, 1911. *191*

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Retr. Lab. 11-07-59 Closing 5-65

Lab 34-39-55

BOOK A-380

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Retracement of Part of Subdivision T13S R4W.

Survey commenced Sept. 5, 1911 & executed with a W & L. E. Gurley light mountain transit, no number, with solar attachment. For full description of instrument see Book A.

Knowing that my instrument is in perfect adjustment from recent observations on Polaris.

Sept. 5, 1911. At 8h 29m a.m. l.m.t. I set off 39°38' on the lat. arc; 7°06' N on the decl. arc; & determine a meridian with the solar attachment for cor. of secs. 4, 5, 32 & 33 on S. bdy. of Tp. cor. before described.

Thence I run

North on retracement line bet. secs. 32 & 33 over gently rolling land across R. R. right of way.

1.00 Center of S. P. L. A. & S. L. R. R. bears N 18°35' E & S 18°35' W.

2.20 Intersect S. W. cor. of section house of sec. No. 36.

6.00 W. W. Telegraph line bears N 18°35' E and S 18°35' W.

9.00 Wire fence; leave right of way bears N 18°35' E & S 18°35' W.

11.00 Cement house for section hands bears E, 3.50 chs.

14.00 Enter sandhills and small basins or sinks also scattering cedar bears N 30° E & S 30° W.

32.00 Road, Leamington to Cherry Creek bears N 20° W & S 20° E.

33.85 West gate post on N side of Peter Mayers sheep corral bears S 37°20' E, 6.23 chs. dist. South post of gate on E. side of Peter Mayers horse corral bears S 37°20' E, 3.50 chs. dist. S. W. cor. of Peter Mayers frame stable bears S 37°20' E, 2.34 chs. dist.

40.04 Intersect old 1/4 sec. cor. which is a cedar post, greatly decayed, marks nearly obliterated. I destroy all traces of the old cor. and re-

Retracement of Part of Subdivision T13S R4W

establish it at same point as follows:
Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S32 on W half; S33 on E half; from which
A cedar tree 20 in. diam. bears
S15° E, 86 lks. dist. marked
1/4 S33 B T
A cedar tree, 16 in. diam. bears
S6° 30' W, 1.00 ch. dist. marked
1/4 S32 B T
From this 1/4 sec. cor. Peter Mayers frame cabin bears S16° 20' E, 7.01 chs. dist.
46.00 Leave scattering cedar bears N80° W & S80° E.
46.50 Leave sandhills & sinks: enter level bottom land bears E & W.
74.00 Road, Leamington to Cherry Creek bears N20° E & S20° W.
74.50 Leave level bottom land: enter drifting sandhills bears N10° E & S10° W.
80.27 Intersect old cor. of secs. 28, 29, 32 & 33 which is a limestone 10 x 10 x 6 in. above ground loosely set and poorly marked.
I destroy all traces of the old cor. and re-establish it at same point as follows:
Set an iron post 3 ft. long 2 in. diam. 24 in. in ground for cor. of secs. 28, 29, 32 & 33 marked on brass cap
T13S S29 in NW
R4W S28 in NE
S33 in SE
S32 in SW, quadrant; dig pits 18 x 18 x 12 in. in each sec. 5 1/2 ft. dist; & raise a mound of earth 4 ft. base, 2 ft. high, W of cor.
S 46.50 chs. gently rolling land.
Soil, light sandy loam 5 to 24 in. deep medium texture, dry, clay subsoil.
Central 28.00 chs. level bottom land.
N. 5.77 chs. drifting sand hills.
Timber, scattering cedar.

Retracement of Part of Sub. T 13 S R 4 W.

S 89° 51' E on retracement line bet. secs. 28 & 33.
Over drifting sandhills.
4.00 Leave drifting sandhills: enter level bottom land bears N 10° E & S 10° W.
4.25 Road, Leamington to Cherry Creek bears N 20° E & S 20° W.
23.25 Remains of old freight-road to Proche bears N 40° E & S 40° W.
32.50 Wire fence: enter right of way on curve from N 51° 08' E to S 18° 35' W.
33.00 Leave level bottom; enter gently rolling land bears N 50° E & S 50° W.
33.50 W.W. Telegraph line bears from N 51° 08' E to S. 18° 35' W.
34.40 Center of S.P. L.A. & S.L. R.R. on curve from N 51° 08' E to S 18° 35' W.
36.40 Wire fence; leave right of way bears from N 51° 08' E to S 18° 35' W.
36.50 Road, Leamington to Silver City bears N 51° 08' E & S 20° W
39.44 Fall 26 lks. S of 1/4 sec. cor. which is a limestone 12 x 8 x 8 in above ground firmly set, marked & witnessed as described by the surveyor general.
Therefore the course of this 1/2 mile is N 89° 46' E.
Moved to cor.
Thence I run
S 89° 51' E on retracement line bet. secs. 28 & 33.
Over gently rolling land.
20.00 Top of bench bears N 50° E & S 50° W.
40.06 Fall 49 lks. S of cor. of secs. 27, 28, 33 & 34 which is a limestone 8 x 9 x 5 in. above ground firmly set marked & witnessed as described by the surveyor general.
Therefore the course of this line is N 89° 27' E.
W 4.00 chs. of this mile is drifting sandhills.
Then bottom land for 29.00 chs. with sandy soil 14 to 22 in. deep medium texture, dry,

Retracement of Part of Subdivision T 13 S R 4

clay subsoil.
E 46.50 chs gently rolling land S.W slope.
Soil, light sandy loam, 6 to 18 in. deep
medium texture, dry, clay & gravel subsoil.
No timber.

South on retracement line bet. secs. 33 & 34
Over gently rolling land W slope.
7.30 Leave gently rolling land; begin ascent of stony ground bears N 48° E & S 48° W.
37.25 Top of rocky spur 300 ft. above cor. proj. W.
40.82 Fall 39 lks. W of 1/4 sec. cor. which is a limestone 10 X 10 X 5 in. above ground firmly set marked & witnessed as described by the surveyor general.
Therefore the course of this 1/2 mile is S 0° 33' E.
Moved to cor.
Thence I run
South on retracement line bet. secs. 33 & 34.
18.70 Foot of descent 250 ft. below spur; enter gently rolling land bears E & W.
40.50 Intersect S bdy of Tp 39 lks. W. of cor. of secs. 3, 4, 33 & 34, previously described.
Therefore the course of this 1/2 mile is S 0° 33' E.
N 7.30 & S 21.80 chs. gently rolling bench land, W slope.
Soil, light sandy loam, 5 to 20 in. deep, medium texture, dry, clay & gravel subsoil.
Central part of this mile broken & hilly.
Soil, light poor and stony, limestone base.
No timber.

Sept. 5, 1911. At cor. of secs. 27, 28, 33 & 34 previously described I set off 7° 02' N on the decl. arc; and at 11 h 59 m. m.t. observe the sun on the meridian the resulting lat is 39° 39'.
Thence I run
North on retracement line bet. secs. 27 & 28.
Over gently rolling land W slope.

Retracement of Part of Subdivision T13 S R 4 W

13.40	Wood road bears E & W.
22.00	Top of bench bears N 50° E & S 50° W, descend.
23.90	Foot of bench 40 ft. below top: enter level bottom land bears N 50° E & S 50° W.
32.65	Road, Leamington to Silver City bears N 50° E & S 50° W.
36.20	Wire fence: enter R. R. right of way bears N 51° E & S 51° W.
38.15	Center of S. P. L. A & S L. R. R. bears N 51° 08' E & S 51° 08' W.
39.05	W. W. Telegraph line bears N 51° 08' E and S 51° 08' W.
39.95	Fall 56 lks. W of 1/4 sec. cor. which is a lime-stone badly crumbled, marks nearly obliterated.
	I destroy all traces of the old cor. and re-establish it at same point as follows: Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 28 on W half; S 27 on E half; dig pits 18 x 18 x 12 in. N & S of post, 3 ft. dist; & raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
	Therefore the course of this 1/2 mile is N 0° 48' E.
	Moved to cor.
	North on retracement line bet. secs. 27 & 28.
0.10	Wire fence: leave right of way bears N 51° E & S 51° W.
1.40	Remains of old freight road to Roche bears N 50° E & S 50° W.
4.10	Wash 6 ft. deep, 20 lks. wide comes from N 50° E. and at this point is diverted to Peter Mayers canal 6 ft. wide in bottom & 5 ft. deep, drains N 45° W, 2.25 chs, thence west.
10.75	Wash 6 ft. deep 25 lks. wide drains S 50° W.
20.00	Leave level bottom land: enter rolling land bears N 40° E & S 40° W, ascend.
20.65	Old road, Leamington to Silver City bears N 45° E & S 45° W.

Retracement of Part of Subdivision T13S R4

30.00 Enter drifted sand bears E & W.
34.00 Enter scattering cedar bears E & W.
39.96 Fall 56 lks. west of cor. of secs. 21, 22, 27 & 28 which is a limestone 10 x 8 x 7 in. planly marked, loosely set & not witnessed.

I destroy all traces of the old cor. and re-establish it at same point as follows: Set an iron post 3 ft. long, 2 in. diam. 24 in in ground for cor. of secs. 21, 22, 27 & 28, marked on brass cap

T13S R4W S21 in NW.
R4W S22 in NE
S27 in SE
S28 in SW, quadrant; from which
A cedar tree 8 in. diam. bears
N 24° E, 3.25 chs. dist. marked
T13S R4W S22 B T
A cedar tree 20 in. diam. bears
S 63° E, 1.76 chs. dist. marked
T13S R4W S27 B T
A cedar tree 14 in. diam. bears
S 57° 30' W, 1.86 chs. dist. marked
T13S R4W S28 B T
A cedar tree 10 in. diam. bears
N 62° W. 2.19 chs. dist. marked
T13S R4W S21 B T.

Therefore the course of this line is N 0° 48' E.
S 23.90 chs & N 19.96 chs. rolling land
Soil, light poor sandy loam, 5 to 18 in. deep medium texture, dry, clay & gravel subsoil.
Central part of mile level bottom land.
Soil, good clay loam 1 to 6 ft. deep, fine texture, dry, clay subsoil.
Timber, cedar.

Sept. 5, 1911. At 2 h 59 m. p. m. l. m. t. I set off 39° 40' on the lat. arc; 7° 00' N on the decl arc; & determine a meridian with the solar at the cor. of secs. 21, 22, 27 & 28.
Thence I run

Retracement of Part of Subdivision T13S R4W.

	East on retracement line bet. secs. 22 & 27. Over rolling land at foot of Black Mt. slopes S.E., through drifted sandhills & scattering cedar timber.
20.00	Leave scattering cedar bears N 40° E & S 40° W.
25.00	Leave rolling sandhills: enter, level bottom land bears N 45° E & S 45° W.
30.90	Old road, Leamington to Silver City bears N 45° E & S 45° W.
40.04½	Fall 4 lks. S of ¼ sec. cor. which is a limestone greatly crumbled & marks nearly obliterated. I destroy all traces of the old cor. and re-establish it at same point as follows: Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for ¼ sec. cor. marked on brass cap ¼ S 22 on N half; S 27 on S half; dig pits 18 x 18 x 12 in. E & W of post 3 ft. dist; & raise a mound of earth 3½ ft. base, 1½ ft. high, N of cor. Therefore the course of this ½ mile is N 89° 57' E. Moved to cor. Thence I run:
	East on retracement line bet. secs. 22 & 27. Over level bottom land.
4.00	Wash 7 ft. deep, 60 lks. wide drains S 50° W.
8.00	Remains of old freight-road to Proche bears N 50° E & S 50° W.
9.45.	Wire fence; enter right of way bears N 51° E & S 51° W.
10.75	W. W. Telegraph line bears N 51° 08' E & S 51° 08' W.
11.84	S. P. L. A. & S. L. R. R. bears N 51° 08' E & S 51° 08' W.
14.25	Wire fence; leave right of way bears N 51° E & S 51° W.
25.60	Road, Leamington to Silver City bears N 50° E & S 50° W.
30.00	Foot of ascent: leave bottom land bears N 45° E & S 45° W.
35.00	Top of bench 75 ft. high bears N 50° E & S 50° W.
40.04½	Fall 4 lks. S of cor. of secs. 22, 23, 26 & 27 which is a limestone 10 x 10 x 6 in. above ground

Retracement of Part of Subdivision T13S R4W

plainly marked & not witnessed: loosely set. Therefore the course of this line is N 89°57' E.
I destroy all traces of the old cor. and re-establish it at same point as follows:
Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 22, 23, 26 & 27 marked on brass cap
T13S S22 in NW
R4W S23 in NE
S26 in SE
S27 in SW, quadrant; dig pits 18x18x12 in. in each sec. 5½ ft. dist; & raise a mound of earth 4 ft. base, 2 ft. high, W of cor.
W. 25.00 chs. rolling sand hills.
Soil, drifted sand 2 to 10 ft. deep, fine texture dry, limestone subsoil.
E. 55.09 chs. bottom & bench land SW slope.
Soil, good clay loam, 1 to 6 ft. deep, fine texture, dry, clay & gravel subsoil.
Timber, cedar.

North on retracement line bet. secs. 22 & 23.
Over gently rolling bench land, SW slope.

8.00 Top of bench bears N 50° E & S 50° W.

16.38 S. end of dugway on road Leamington to Silver City bears N 40° E, & S 40° W; also foot of bench 75 ft. below top of bench: enter bottom land bears N 40° E & S 40° W.

21.20 N. end of wire fence on E. side of right-of way.

22.90 S.P.L.A & S.L.R.R. bears N 51°08' E & S 51°08' W.

23.50 E. end of Peter Mayers drift fence bears W 1.75 chs. thence N 54°58' W, 77.54 chs.

23.70 W.U. Telegraph line bears N 51°08' E & S 51°08' W.

26.70 Remains of old freight road to Proche bears N 30° E & S 30° W.

32.75 Wash 6 ft. deep, 12 lks. wide drains S 50° W.

37.50 Wash 1.4 ft. deep 30 lks. wide drains S 40° W.

40.21 Intersect ¼ sec. cor. which is a limestone 10x8x8 in. above ground loosely set and

Retracement of Part of Sub. T.13 S R4 W.

	dimly marked.
	I destroy all traces of the old cor. and re-establish it at same point as follows:
	Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 22 on W half; S 23 on E half; dig pits 18 x 18 x 12 in. N & S of post 3 ft. dist; & raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W of cor.
52.35	Old road Leamington to Silver City bears N 40° E & S 40° W.
53.00	Leave bottom land, ascend, bears N 40° E & S 40° W.
63.00	Top of flat spur 110 ft. above bottom land proj. N 85° E.
80.21	Intersect the cor. of secs. 14, 15, 22 & 23 which is a limestone 12 x 12 x 5 in. above ground loosely set and poorly marked.
	I destroy all traces of the old cor. and re-establish it at same point as follows:
	Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 14, 15, 22 & 23 marked on brass cap
	T13 S S 15 in NW
	R4 W S 14 in NE
	S 23 in SE
	S 22 in SW, quadrant; dig pits 18 x 18 x 12 in. in each sec. 5 1/2 ft. dist; & raise a mound of earth 4 ft. base, 2 ft. high, W of cor.
	Land, gently rolling & bottom.
	Soil, clay loam 2 to 14 ins. deep, clay & gravel subsoil.
	No timber.
	Sept. 5, 1911.
	Sept. 6, 1911. At 8h 15m. a. m. l. m. t. I set off 39° 41' on the lat. arc; 6° 44' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 14, 15, 22 & 23, previously described.

Retracement of Part of Subdivision T13 S

Thence I run
North on retracement line bet. secs. 14 & 15.
Over gently rolling land, S.E. slope.
6.30 Wash 3 ft. deep, 30 lks. wide, drains S60° E.
40.24 Intersect 1/4 sec. cor. which is a quartzite stone 12x12x11 in. above ground loosely set and poorly marked.
I destroy all traces of the old cor. and re-establish it at same point as follows:
Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S15 on W half; S14 on E half; raise a mound of stone 2 ft. base, 1/2 ft. high, W of cor. Pits impracticable.
41.00 Spur 100 ft. above wash proj. S70° E.
45.50 Draw 60 ft. below spur drains S80° E.
80.42 Intersect cor. of secs. 10, 11, 14 & 15 which is a limestone 12x8x7 in. above ground plainly marked, loosely set, and not witnessed.
I destroy all traces of the old cor. and re-establish it at same point as follows:
Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 10, 11, 14 & 15 marked on brass cap
T13 S S10 in NW
R4W S11 in NE
S14 in SE
S15 in SW, quadrant; dig pits 18x18x12 in. in each sec. 5 1/2 ft. dist; & raise a mound of earth 4 ft. base, 2 ft. high, W of cor.
Land, gently rolling S.E. slope.
Soil, light sandy loam 10 to 18 in. deep medium texture, dry, clay subsoil.
No timber.

N89° 45' E on retracement line bet. secs. 11 & 14.
Over gently rolling land S.E. slope.
20.15 Wash 6 ft. deep 15 lks. wide drains S80° E.

Retracement of Part of Subdivision T13S.R4W.

40.23 Fall 2 lks. N of 1/4 sec. cor. which is a lime-stone 6x6x5 in. above ground poorly marked & loosely set.

I destroy all traces of the old cor. and re-establish it at same point as follows: Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S11 on N half; S14 on S half; dig pits 18x18x12 in E & W of post, 3 ft. dist; & raise a mound of earth 3/2 ft. base, 1/2 ft. high N of cor.

Therefore the course of this 1/2 mile is N 89° 47' E.

Moved to cor.

N 89°45' E on retracement-line bet. secs. 11 & 14 over gently rolling land S.E. slope.

6.00 Leave rolling; enter level bottom land bears N 30° E & S 30° W.

12.20 Old road, Leamington to Silver City bears N 10° E & S 10° W.

40.34 Fall 2 lks. N. of cor. of secs. 11, 12, 13 & 14 which is a quartzite stone, badly crumbled, & marks nearly obliterated.

I destroy all traces of the old cor. and re-establish it at same point as follows Set an iron post 3 ft. long, 1 in. diam. 24 in. in ground for cor. of secs. 11, 12, 13 & 14, marked on brass cap

T13 S S11 in NW

R4W S12 in NE

S13 in SE

S14 in SW, quadrant; dig pits 18x18x12 in. in each sec. 5/2 ft. dist; & raise a mound of earth 4 ft. base, 2 ft. high W of cor.

Therefore the course of this 1/2 mile is N 89° 47' E.

W 46.23 chs. gently rolling land S.E. slope. Soil, light sandy loam, 5 to 12 in. deep, medium texture, dry, clay & gravel subsoil.

E 34.34 chs. level bottom land drains SW. Soil, good clay loam, 1 to 3 ft. deep, fine

texture, dry, clay subsoil.
No timber.

North on retracement line bet. secs. 11 & 12
Over level bottom land drains S.W.
41.70 Fall 55 lks. W of 1/4 sec. cor. which is a quartzite stone 12x9x7 in. above ground plainly marked, loosely set & not witnessed
I destroy all traces of the old cor. and re-establish it at same point as follows:
Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S11 on W half; S12 on E half; dig pits 18x18x12 in. N & S of post, 3 ft. dist; & raise a mound of earth 3½ ft. base, 1½ ft. high, W of cor.
Therefore the course of this ½ mile is N 0° 45' E.
Moved to cor.
Thence I run
North on retracement line bet. secs. 11 & 12.
Over bottom land
3.85 Old road, Leamington to Silver City bears N 30° E & S 30° W.
24.25 Leave bottom land, ascend bears N 30° E & S 30° W.
35.00 Top of bench, 65 ft. above bottom land bears N 30° E & S 30° W.
40.60 Fall 19 lks. W. of cor. of secs. 1, 2, 11 & 12 which is a quartzite 10x8x6 in. above ground, poorly marked & loosely set.
I destroy all traces of the old cor. and re-establish it at same point as follows:
Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 1, 2, 11 & 12 marked on brass cap
T13S S2 in NW
R4W S1 in NE
S12 in S.E.
S11 in SW. quadrant; dig pits 18x18x12

Retracement of Part of Subdivision T13SR4W.

in. in each sec. 5½ ft. dist; & raise a mound of earth 4 ft. base, 2 ft. high, W of cor.
Therefore the course of this ½ mile is N0°16'E.
S 65.95 chs. level bottom land.
Soil, good clay loam, 2 to 4 ft. deep, fine texture, dry, clay subsoil.
N 16.35 chs. rolling land S.E. slope.
Soil, sandy loam 4 to 16 in. deep, clay and gravel subsoil.
No timber.

North on retracement line bet. secs. 1 & 2.
Over gently rolling bench land, S.E. slope.
40.48 Fall 15 lks. W. of ¼ sec. cor. which is a quartzite stone 10 x 7 x 5 in. above ground dimly marked & loosely set.
I destroy all traces of the old cor. and re-establish it at same point as follows;
Set an iron post 3 ft. long, 1 in. diam, 26 in. in ground for ¼ sec. cor. marked on brass cap ¼ S 2 on W half; S 1 on E half; dig pits 18 x 18 x 12 in. N & S of post, 3 ft. dist; & raise a mound of earth 3½ ft. base, 1½ ft. high, W of cor.
Therefore the course of this ½ mile is N.0°13'E.
Moved to cor.
Sept. 6, 1911. At this cor. I set off 6°40' N. on the decl. arc; and at 11 h 59 m. a.m. l. m. t. observe the sun on the meridian the resulting lat. is 39°43'.
North on retracement line bet. secs. 1 & 2.
Over gently rolling land. S.E. slope.
12.20 Wash 6 ft. deep, 98 lks. wide drains S 80°E.
14.40 Wash 6 ft. deep, 20 lks. wide drains S 10°E.
25.75 Same wash 5 ft. deep, 10 lks. wide drains S 10° W.
26.40 Road, Nephi to Cherry Creek bears E & W.
40.31 Intersect N. bdy. of Tp. 15 lks. W. of cor. of secs. 1, 2, 35 & 36 previously described.
Therefore the course of this ½ mile is

Retracement of Part of Subdivision T13 S R4 W

N 0°13' E.
Land, gently rolling bench S E slope.
Soil, sandy loam 7 to 22 in. deep, medium texture, dry, clay & gravel subsoil.
No timber.

Sept. 6, 1911. At 2 h 29 m. p. m. l. m. t. I set off 39°42' on the lat. arc; 6°38' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 10, 11, 14 & 15 previously described
From previous retracements I now decide it necessary to put in a Sectional Guide Meridian from this cor.
Thence I run
North on Sectional Guide Meridian bet. secs. 10 & 11.
Over rolling land
2.50 Wash 5 ft. deep 50 lks. wide drains E.
29.25 Foot of ascent bears N30°E & S30°W.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S10 on W half; S11 on E half; dig pits 18 x 18 x 12 in. N & S of post 3 ft. dist; & raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W of cor.
42.20 Spur 80 ft. above wash prog. E
47.25 Draw 75 ft. below spur, drains E.
80.00 Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 2, 3, 10 & 11 marked on brass cap
T13 S S3 in NW
R4 W S2 in NE
S11 in SE
S10 in SW, quadrant; dig pits 18 x 18 x 12 in. in each sec 5 1/2 ft. dist; & raise a mound of earth 4 ft. base, 2 ft. high, W of cor.
Land, rolling S E slope.
Soil, sandy loam 4 to 24 in. deep, medium texture, dry, clay & gravel subsoil.
No timber.

Subdivision T13 S R4 W.

East on random line bet. secs. 2 & 11.
39.08 Fall 19 lks. S of 1/4 sec. cor. which is a limestone 10 x 8 x 5 in. above ground poorly marked & loosely set.
I destroy all traces of the old cor. and re-establish it at same point as follows:
Set an iron post 3 ft. long, 1 in. diam. 26 in in ground for 1/4 sec. cor. marked on brass cap 1/4 S 2 on N half; S 11 on S half; dig pits 18 x 18 x 12 in. E & W of post 3 ft. dist; & raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N of cor.
Thence I run
S 89° 43' W on true line bet. secs. 2 & 11.
Over rolling land S E slope, ascend.
6.50 Spur 75 ft. above cor. prog. S 45° E.
11.50 Draw 90 ft. below spur drains S 45° E.
15.00 Enter sagebrush bears N & S.
39.08 The cor. of secs. 2, 3, 10 & 11.
Land, rolling bench, S.E. slope.
Soil, sandy loam 12 to 24 in. deep, medium texture, dry, on clay & gravel subsoil.
No timber; undergrowth, sagebrush.
From 1/4 sec. cor. bet. secs. 2 & 11 before described I run
East on retracement line bet. secs. 2 & 11.
Over gently rolling bench land.
42.16 Intersect N & S line 2.03 chs. S 0° 16' W of cor. of secs. 1, 2, 11 & 12 previously described.
Therefore the course of this 1/2 mile is N 87° 15' E & dist. 42.21 chs.

Sept. 6, 1911.

Sept. 13, 1911. At 9 h 56 m. a.m. l.m.t. I set off 39° 43' on the lat. arc; 4° 06' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 2, 3, 10 & 11.
Thence I run
North on Sectional Guide Meridian bet. secs. 2 & 3.

Subdivision T13S R4W

Over gently rolling land through sagebrush
ascend gently.
6.00 Low spur proj. N 35° E.
39.00 Leave sagebrush; enter white sage bears
N 40° E & S 40° W.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in.
in ground for 1/4 sec. cor. marked on brass
cap 1/4 S 3 on W half; S 2 on E half; dig pits 18
x 18 x 12 in. N & S of post, 3 ft. dist; & raise a
mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W
of cor.
42.35 Wood road bears N 45° E, & S 45° W.
43.00 Draw 25 ft. below 1/4 sec. cor. drains N 45° E.
53.80 Wood road bears N 80° W & S 80° E.
57.25 Leave white sage; enter sagebrush bears
N 10° W & S 10° E.
78.25 Leave sagebrush; enter white sage bears
N 20° E & S 20° W.
83.29 Intersect N bdy. of Tp. 1.14 chs. W. of cor. of
secs. 2, 3, 34 & 35 previously described.
Set an iron post 3 ft. long, 2 in. diam. 24
in. in ground for closing cor. of secs. 2 & 3
marked on brass cap
CC T12S R4W S 34 & S 35 on N half
S 2 in SE
S 3 in SW; quadrant; dig pits 24 x 18 x 12
in. crosswise on each line, E & W 3 ft. &
S of post 7 ft. dist; & raise a mound of earth
4 ft. base, 2 ft. high S of cor.
I destroy all marks on cor. of secs. 2, 3,
34 & 35 that pertain to secs. 2 & 3.
Land, gently rolling.
Soil, good brown sandy loam 1 to 3 ft.
deep, medium texture, dry, clay subsoil.
No timber; undergrowth, sagebrush.
Sept. 13, 1911.

Sept. 7, 1911. At 7h 58m a. m. l. m. t. I set off
39° 40' on the lat. arc; 6° 22' N on the decl.
arc; & determine a meridian with the

Subdivision T13S R4W.

solar at the cor. of secs. 21, 22, 27 & 28 previously described.
Thence I run
N0°01' W bet. secs. 21 & 22.
Over drifted sandhills at base of Black Mt. through scattering cedar timber ascend.
13.00 Leave sandhills; begin abrupt ascent limestone formation bears E & W.
22.00 Spur 350 ft. above cor. proj. S60°W.
30.00 Head of draw 150 ft. below spur drains S60°W.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S21 on W half; S22 on E half; from which
A cedar tree 10 in. diam. bears
S82° E, 86 lks. dist. marked
1/4 S22 B T
A cedar tree, 6 in. diam. bears
N 78° W, 81 lks. dist. marked
1/4 S21 B T
48.00 Limestone spur 300 ft. above draw proj. S80° E.
55.50 Draw 250 ft. below spur drains S80° E.
67.50 Ridge 325 ft. above draw bears N85° E & S85° W.
80.00 Set an iron post 3 ft. long 2 in. diam. 24 in. in ground for cor. of secs. 15, 16, 21 & 22 marked on brass cap
T13S S16 in NW
R4W S15 in NE
S22 in SE
S21 in SW, quadrant; from which
A cedar tree, 16 in. diam. bears
N 31° E, 57 lks. dist. marked
T13S R4W S15 B T
A cedar tree 10 in. diam. bears
S 45° E, 1.78 chs. dist. marked
T13S R4W S22 B T
A cedar tree, 12 in. diam. bears
S35° 30' W, 1.93 chs. dist. marked
T13S R4W S21 B T

Subdivision T 13 S R 4 W.

A cedar tree, 12 in. diam. bears
N 41° 30' W, 48 lks. dist. marked
T 13 S R 4 W S 16 B T
South 13.00 chs. drifted sandhills on limestone base.
North 67.00 chs. broken & hilly.
Ridges, light poor sandy loam; draws & slopes washed, very stony; drains S E.
Timber, cedar.

N 89° 57' E on random line bet. secs. 15 & 22.
40.10 Fall 16 lks. S of old 1/4 sec. cor. which is a limestone 10 x 6 x 5 in. above ground badly crumbled, marks nearly obliterated.
I destroy all traces of the old cor. and re-establish it at same point as follows:
Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap. 1/4 S 15 on N half; S 22 on S half; from which
A cedar tree 6 in. diam. bears
N 3° E, 1.48 chs. dist. marked
1/4 S 15 B T
A cedar tree 6 in. diam. bears
S 1° W, 1.50 chs. dist. marked
1/4 S 22 B T
Thence I run
S 89° 43' W on true line bet. secs. 15 & 22.
Over hilly land through scattering cedar timber, ascend.
10.00 Point of spur 150 ft. above cor. proj. N 45° E, thence along N slope of ridge.
30.00 Draw drains N 70° E.
34.00 Same draw drains S 80° E.
40.10 The cor. of secs. 15, 16, 21 & 22.
Land, hilly NE slope.
Soil, light clay loam, 4 to 8 in. deep, medium texture, dry, gravel subsoil.
Timber cedar.
From 1/4 sec. cor. bet. secs. 15 & 22 before described I run

Subdivision T 13 S R 4 W

E on retracement line bet. secs. 15 & 22.
Over hilly land through scattering cedar.
10.00 Begin abrupt descent bears N 30° W & S 30° E.
13.50 Leave scattering cedar bears N 30° W & S 30° E
16.00 Foot of abrupt descent, thence gentle descent bears N 30° W & S 30° E.
40.00 Fall 10 lks. S of cor. of secs. 14, 15, 22 & 23 previously described.
Therefore the course of this ½ mile is N 89° 51' E.
W 16.00 chs. hilly, E slope.
Soil, light clay loam.
E 24.00 chs. gently rolling.
Soil, sandy loam 1 to 2 ft. deep, medium texture, dry, clay subsoil.
Timber, scattering cedar.

Sept. 7, 1911. At cor. of secs. 15, 16, 21 & 22 Deck off 6° 18' N on the decl. arc; and at 11h 58m a.m. l.m.t. observe the sun on the meridian, the resulting lat. is 39° 41'.
N 0° 01' W bet. secs. 15 & 16.
Over stony hilly land through scattering cedar timber, descend.
1.10 Draw 30 ft. below cor. drains S 85° E.
12.50 Spur 250 ft. above draw proj. E 10.00 chs. thence N 45° E.
18.00 Leave stony formation; enter sandy loam formation bears E & W.
35.00 Draw 300 ft. below spur drains E.
38.00 Point of spur, 30 ft. above draw proj. S 10° E.
39.00 Small draw 25 ft. below spur drains S 20° E.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for ¼ sec. cor. marked on brass cap ¼ S 16 on W half; S 15 on E half; from which
A cedar tree 7 in. diam. bears S 66° E, 38 lks. dist. marked ¼ S 15 B T
A cedar tree 12 in. diam. bears S 75° 30' W, 2.37 chs. dist. marked

Subdivision T13S R4W

	1/4 S16 B T
49.00	Spur 100 ft. above cor. proj. S60°E.
53.00	Head of draw 75 ft. below spur, drains S60°E.
61.00	Spur, 50 ft. above head of draw proj. S70°E.
66.00	Head of draw, 60 ft. below spur drains S45°E.
79.00	Spur 70 ft. above draw proj. N40°E.
80.00	Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 9, 10, 15 & 16 marked on brass cap
	T13S S9 in NW
	R4W S10 in NE
	S15 in SE
	S16 in SW, quadrant; from which
	A cedar tree 6 in. diam. bears
	N31°E, 48 lks. dist. marked
	T13S R4W S10 B T
	A cedar tree, 10 in. diam. bears
	S74°30'E, 58 lks. dist. marked
	T13S R4W S15 B T
	A cedar tree 7 in. diam. bears
	S47°W, 1.17 chs. dist. marked
	T13S R4W S16 B T
	A cedar tree 6 in. diam. bears
	N11°W, 2.06 chs. dist. marked
	T13S R4W S9 B T
	Land, hilly E slope.
	Soil on S18.00 chs. light-clay loam on limestone base.
	N62.00 chs. good sandy loam, on clay & gravel subsoil.
	Timber, cedar.
	Sept 7, 1911. At 2h 10m. p.m. l.m.t. I set off 39°42' on the lat. arc; 6°16' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 9, 10, 15 & 16.
	Thence I run
	N89°57'E on random line bet. secs. 10 & 15
40.00	Set temp. 1/4 sec. cor.
79.85	Intersect N & S line 88 lks. S. of cor. of secs.

Subdivision T13S R4W

10, 11, 14 & 15.
Set an iron post 3 ft. long, 2 in. diam., 24 in. in ground for closing cor. of secs. 10 & 15, marked on brass cap
T13S R4W in N half
CC S11 S14 on E half
S10 in NW
S15 in SW, quadrant; dig pits 2.4 x 1.8 x 1.2 in. crosswise on each line, N & S, 3 ft. and W of cor 7 ft. dist; & raise a mound of earth 4 ft. base, 2 ft. high, W of cor.
I destroy all marks on cor. of secs. 10, 11, 14 & 15 that pertain to secs. 10 & 15.
Thence I run
S 89°57' W on true line bet. secs. 10 & 15.
Over rolling land, E slope: ascend gently
17.90 Draw drains N 50° E; enter scattering cedar bears N 50° E & S 50° W.
30.00 Spur 100 ft. above draw proj. N 70° E.
36.65 Draw 60 ft. below spur drains N 30° E.
39.92½ Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S10 on N half; S15 on S half; from which
A cedar tree 8 in. diam. bears
N 66° E, 65 lks. dist. marked
1/4 S 10 B T
A cedar tree, 14 in. diam. bears
S 35° E. 59 lks. dist. marked
1/4 S 15 B T
41.00 Spur 65 ft. above draw proj. N 45° E.
45.00 Draw 56 ft. below spur drains N 45° E.
76.00 Spur 60 ft. above draw proj. N 45° E.
79.85 The cor. of secs. 9, 10, 15 & 16.
Land rolling E & N.E. slope.
Soil, good sandy loam 1 to 3 ft. deep, medium texture, dry, clay & gravel subsoil
Timber, cedar.

N 0°01' W bet. secs. 9 & 10.
Over rolling land, N.E. slope through

Subdivision T13S R4W.

	scattering cedar timber.
2.00	Leave scattering cedar; enter sagebrush bears E & W.
19.00	Enter scattering cedar bears N40°E & S40°W.
26.00	Leave same bears N45°E & S45°W.
39.00	Enter scattering cedar bears N45°E & S45°W.
40.00	Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S9 on W half; S10 on E half; from which
	A cedar tree 8 in. diam. bears
	N62°E, 1.06 chs. dist. marked
	1/4 S10 B T
	A cedar tree 7 in. diam. bears
	N60°W, 2.70 chs. dist. marked
	1/4 S9 B T.
43.75	Wood road bears N45°E. & S45°W.
72.00	Draw drains N40°E.
80.00	Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of sec. 3, 4, 9 & 10 marked on brass cap
	T13S S4 in NW
	R4W S3 in NE
	S10 in SE
	S9 in SW, quadrant; from which
	A cedar tree 18 in. diam. bears
	N75°E, 3.70 chs. dist. marked
	T13S R4W S3 B T
	A cedar tree 24 in. diam. bears
	S88°30'E, 2.50 chs. dist. marked
	T13S R4W S10 B T
	A cedar tree 18 in. diam. bears
	S6°30'W, 2.78 chs. dist. marked
	T13S R4W S9 B T
	No other trees in limits; Dig pits 18x18x12 in. in each sec. 5½ ft. dist; & raise a mound of earth 4 ft. base, 2 ft. high, W of cor.
	Land, gently rolling, NE. slope.
	Soil, good brown sandy loam 1 to 3 ft. deep, medium texture, dry, clay subsoil.

Subdivision T13S R4W.

Timber, scattering cedar.
Undergrowth, sagebrush.
Sept. 7, 1911.

Sept. 13, 1911. At 9 h. 45 m. a. m. l. m. t. I set off 39° 43' on the lat. arc; 4° 04' N on the decl. arc; & determine a meridian with the polar at the cor. of secs. 3, 4, 9 & 10.
Thence I run
N 89° 57' E on random line bet. secs. 3 & 10.
40.00 Set temp. 1/4 sec. cor.
79.72 Intersect N & S line 80 lks. S. of cor. of secs. 2, 3, 10 & 11.
Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for closing cor. of secs. 3 & 10, marked on brass cap
T13 S R4W on N half
C C S2 S11 on E half
S 3 in NW.
S 10 in SW, quadrant; dig pits 24 x 18 x 12 in crosswise on each line N & S 3 ft. & W of cor. 7 ft. dist; & raise a mound of earth 4 ft. base 2 ft. high, W of cor.
I obliterate all marks on cor. of secs. 2, 3, 10 & 11 that pertain to secs. 3 & 10.
Thence I run
S 89° 57' W on true line bet. secs. 3 & 10.
Over gently rolling land NE slope through sagebrush.
5.75 Top of low spur proj. N 35° E.
37.80 Wide smooth draw drains N 30° E.
38.40 Wood road bears N 30° E & S 30° W.
39.86 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S3 on N half; S10 on S half; dig pits 18 x 18 x 12 in. E & W of post, 3 ft. dist; & raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N of cor.
43.70 Low spur proj. N 35° E.
57.75 Wide, smooth draw drains N 45° E.

Subdivision T13S R4W

75.75	Enter scattering cedar bears N & S.
79.72	The cor. of secs. 3, 4, 9 & 10.
	Land, gently rolling NE slope.
	Soil, good brown sandy loam, 1 to 3 ft. deep, medium texture, dry, clay subsoil.
	Timber, cedar; undergrowth, sagebrush.
	N 0°01' W on true line bet. secs. 3 & 4.
	Over gently rolling land through scattering cedar & sagebrush, E & NE slope
1.00	Leave scattering cedar bears N 10° E & S 10° W.
25.00	Knoll 25 ft. high.
40.00	Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 4 on W half; S 3 on E half; dig pits 18 x 18 x 12 in. N & S of post 3 ft. dist; & raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W of cor.
54.00	Leave sagebrush: enter white sage bears N 80° W & S 80° E.
74.15	Wood road bears E & W.
77.00	Leave white sage: enter sagebrush bears E & W.
84.15	Intersect N. bdy. of Cp. 89 lks. W of cor. of secs. 3, 4, 33 & 34, previously described.
	Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for closing cor. of secs. 3 & 4, marked on brass cap
	CC T12S R4W S3 S34 on N half
	S3 in SE
	S4 in SW, quadrant; dig pits 24 x 18 x 12 in. crosswise on each line, E & W, 3 ft. & S. of cor. 7 ft. dist; & raise a mound of earth 4 ft. base 2 ft. high S of cor.
	I destroy all marks on cor. of secs. 3, 4, 33 & 34 that pertain to secs. 3 & 4.
	Land, gently rolling, E slope.
	Soil, good sandy loam 10 to 30 in. deep medium texture, dry, clay subsoil.
	Timber, cedar; undergrowth, sagebrush.
	Sept. 13, 1911. At this C. C. I set off 4°02' N on

Subdivision T 13 S R 4 W.

the decl. arc; & at 11 h 56 m a.m. l. m. t. observe the sun on the meridian, the resulting lat. is 39° 43'.

Sept. 13, 1911.

Knowing from retracements that a sectional correction line is necessary Sept. 8, 1911. At 9 h 10 m. a. m. l. m. t. I set off 39° 40' on the lat. arc; 5° 58' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 21, 22, 27 & 28 previously described.

Thence I run

West on Sectional Correction line bet. secs. 21 & 28.

Over drifted sandhills, through scattering cedar timber along base of Black Mts.

16.00 Mouth of draw 100 ft. below cor. draws S 10° E.

39.00 Point of limestone spur 90 ft. above draw prof. S 10° E.

40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 21 on N half; S 28 on S half; from which

A cedar tree 20 in. diam. bears S 39° 30' E, 1.20 chs. dist. marked 1/4 S 28 B T

A cedar tree, 18 in. diam. bears N 60° W, 20 lks. dist. marked 1/4 S 21 B T

42.00 Draw 50 ft. below cor. draws S 10° E.

58.00 Spur 200 ft. above draw prof. S 20° E.

78.00 Base of mountains 250 ft. below spur; enter gently rolling land bears N & S.

80.00 Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 20, 21, 28 & 29 marked on brass cap

T 13 S S 20 in NW

R 4 W S 21 in NE

S 28 in SE

S 29 in SW, quadrant; from which

Subdivision T13SR4W.

A cedar tree, 36 in. diam. bears
N 6° E, 2.35 chs. dist. marked
T13SR4WS21BT
A cedar tree 40 in. diam. bears
S 19° E, 2.97 chs. dist. marked
T13SR4WS28BT
A cedar tree 20 in. diam. bears
S 39° 30' W, 6.70 chs. dist. marked
T13SR4WS29BT
A cedar tree 30 in. diam. bears
N 48° 20' W, 1.10 chs. dist. marked
T13SR4WS20BT
E 18.00 chs. broken & hilly.
Ridges with light drifted sand, washed on slopes, limestone base.
W 2.00 chs. gently rolling land.
Soil, light drifted sand, 4 to 12 in. deep, clay subsoil.
Timber, cedar.

West on Sectional Correction line bet. secs 20 & 29.
Over gently rolling land through scattering cedar timber.
3.00 Leave scattering cedar: enter scattering greasewood bears N & S.
12.63 Road, Leamington to Cherry Creek bears N 45° W & S 45° E.
30.78 Enter scattering cedar timber bears N 10° W & S 10° E.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S20 on N half; S29 on S half; from which
A cedar tree 36 in. diam. bears
S 42° W, 1.69 chs. dist. marked
1/4 S29 BT
A cedar tree 36 in. diam. bears
N 48° W, 32 lks. dist. marked
1/4 S20 BT
80.00 Set an iron post 3 ft. long, 2 in. diam. 24 in

Subdivision T13S R4W.

in ground for cor. of secs. 19, 20, 29 & 30 marked on brass cap
T13S S19 in NW
R4W S20 in NE
S29 in SE
S30 in SW, quadrant; from which
A cedar tree 14 in. diam. bears
N 34°50' E, 1.90 chs. dist. marked
T13S R4W S20 B T
A cedar tree 14 in. diam. bears
N 74°45' W, 2.74 chs. dist. marked
T13S R4W S19 B T
No other trees in limits; Dig pits 18 x 18 x 12 in. in each sec 5½ ft. dist; & raise a mound of earth 4 ft. base, 2 ft. high, W of cor.
Land, gently rolling S slope.
Soil, light-poor sandy loam 10 to 20 in. deep, medium texture, dry, clay subsoil.
Timber, scattering cedar.
Undergrowth, scattering greasewood.
Sept. 8, 1911. At this cor. I set off 5°55' 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°40'.

West on sectional correction line bet. secs. 19 & 30.
Over level land through scattering cedar timber & greasewood.
10.00 Leave scattering cedar bears N 45° E & S 45° W.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for ¼ sec. cor. marked on brass cap ¼ S19 on N half; S30 on S half; dig pits 18 x 18 x 12 in. E & W of post 3 ft. dist; & raise a mound of earth 3½ ft. base, 1½ ft. high N of cor.
84.80 Intersect W. bdy. of Tp 80 lks. N. of cor. of secs. 19, 24, 25 & 30 heretofore described
Set an iron post 3 ft. long 2 in. diam. 24 in. in ground for closing cor. of secs. 19 & 30

Subdivision T13S R4W.

Chains

marked on brass cap
T13S on N half
CCR5WS24 S25 on W half
S19 in NE
R4W S30 in SE, quadrant; dig pits 24x
18x12 in. crosswise on line N & S, 3 ft. of E
of post 7 ft. dist; & raise a mound of earth
4 ft. base 2 ft. high, E of cor.
I destroy all marks on cor. of secs. 19, 24, 25
& 30 that pertain to secs. 19 & 30.
Land, level.
Soil, light poor sandy loam 6 to 24 in.
deep, medium texture, dry, clay subsoil.
Timber, scattering cedar.
Undergrowth, scattering greasewood.

Sept. 8, 1911. At 4 h 05 m. p.m. d.m.t. I set
off 39° 39' on the lat. arc; 5° 52' N on the
decl. arc; & determine a meridian with
the solar at the cor. of secs. 28, 29, 32 & 33
previously described.
Thence I run
North on true line bet. secs. 28 & 29.
Over drifting sandhills.
9.00 Leave drifting sandhills; enter level bottom
land bears E & W.
25.69 Wire fence bears N 84° 12' W, 22.07 chs. & S 84°
14' E, 56.89 chs. to R. R. fence.
36.00 Leave level bottom; enter rolling land
bears N 40° E & S 40° W.
38.00 Wash 4 ft. deep 20 lks. wide drains S 40° W.
38.50 Road, Leamington to Cherry Creek bears
N 20° W & S 20° E.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in.
in ground for 1/4 sec. cor. marked on brass
cap; 1/4 S29 on W half; S28 on E half; dig pits
18x18x12 in. N & S of post 3 ft. dist; & raise
a mound of earth 3 1/2 ft. base, 1 1/2 ft. high
W of cor.
From this 1/4 sec. cor. overflow of Peter Mayer

Subdivision T13SR4W

Chains	
	reservoir bears N78°E, 6.50 chs.
	Well 100 ft. deep bears S74°40'E, 26.30 chs. dist.
48.00	Road, Leamington to Cherry Creek bears N20°E & S20°W.
56.00	Enter scattering cedar bears E & W.
60.85	Wire fence bears N83°35'W & S83°35'E.
67.85	Road, Leamington to Cherry Creek bears N45°W & S45°E.
80.67	Intersect Sectional Correction line 63 lks. W. of cor. of secs. 20, 21, 28 & 29.
	Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for closing cor. of secs. 28 & 29 marked on brass cap
	CC T13S R4W S20 S21 on N half
	S28 in SE
	S29 in SW, quadrant; from which
	A cedar tree 48 in. diam. bears
	S9°E, 1.97 chs. dist. marked
	T13S R4W S28 BT
	A cedar tree 25 in. diam. bears
	S29°30'W, 6.62 chs. dist. marked
	T13S R4W S29 BT
	I destroy all marks on cor. of secs. 20, 21, 28 & 29 that pertains to secs. 28 & 29.
	Land, level & rolling SW slope.
	Soil, light poor sandy loam 10 to 30 in. deep, medium texture, dry, clay subsoil.
	Timber, cedar.
	Sept. 8, 1911.

Sept. 11, 1911. At 8h 30m a.m. l. m. t. I set off 39°40' on the lat. arc; 4°51' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 20 & 21, 28 & 29.

	Thence I run
	N0°02'W bet. secs. 20 & 21.
	Over gently rolling land through scattering cedar, ascend.
10.00	Leave scattering cedar; enter sagebrush bears N40°W & S40°E.

Subdivision T13S R4W.

Chains	
23.50	Wash 5 ft. deep, 12 lks. wide drains S45°W.
28.00	Leave sagebrush: enter foothills and scattering cedar bears N60°W & S60°E.
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S20 on W half; S21 on E half; from which A cedar tree 18 in. diam. bears S84°E, 72 lks. dist. marked 1/4 S21 B.T. A cedar tree, 16 in. diam. bears N65°W, 2.07 chs. dist. marked 1/4 S20 B.T.
59.25	Wash 8 ft. deep 20 lks. wide drains S45°W.
71.00	Leave foothills: enter stony broken hills bears N40°W & S40°E.
80.00	Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 16, 17, 20 & 21, marked on brass cap T13S S17 in NW R4W S16 in NE S21 in SE S20 in SW, quadrant; from which A cedar tree 20 in. diam. bears N36°E, 32 lks. dist. marked T13S R4W S16 B.T. A cedar tree 12 in. diam. bears S46°30'E, 82 lks. dist. marked T13S R4W S21 B.T. A cedar tree, 16 in. diam. bears S41°20'W, 65 lks. dist. marked T13S R4W S20 B.T. A cedar tree, 12 in. diam. bears N72°30'W, 52 lks. dist. marked T13S R4W S17 B.T. S71.00 chs. rolling land, SW slope. Soil, light-sandy loam 1 to 2 ft. deep, medium texture, dry, clay subsoil. N 9.00 chs. broken & stony, washed, limestone formation. Timber, cedar; undergrowth, sagebrush.

Subdivision T13S R4W.

East on random line bet. secs. 16 & 21.
40.00 Set temp. 1/4 sec. cor.
79.94 Intersect N & S line 21 lks. S. of cor. of secs. 15, 16, 21 & 22.
Thence I run
S 89° 51' W on true line bet. secs. 16 & 21.
Over stony broken hills, through scattering cedar timber.
5.00 Leave scattering; enter thick scrubby cedar timber bears N 40° E & S 40° W.
14.00 Spur 250 ft. above cor. proj. N 45° E.
39.97 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 16 on N half; S 21 on S half; from which
A cedar tree 8 in. diam. bears
N 28° E, 65 lks. dist. marked
1/4 S 16 B T
A cedar tree 10 in. diam. bears
S 8° W, 65 lks. dist. marked
1/4 S 21 B T
62.00 Head of draw 150 ft. below spur drains N 60° E.
63.00 Leave thick; enter scattering cedar bears N 60° E & S 60° W.
66.00 Saddle in ridge 100 ft. above head of draw bears N 40° W & S 40° E
79.94 The cor. of secs. 16, 17, 20 & 21.
This cor. is 300 ft. below saddle in ridge.
Land, broken & hilly.
Ridges, light poor sandy loam, badly washed on slopes; draws, good brown sandy loam with some gravel, on gravel subsoil.
Timber, cedar.
Sept. 11, 1911. At this cor. I set off 4° 47' N on the decl. arc; and at 11h 57m a.m. l.m.t. observe the sun on the meridian the resulting lat. is 39° 41

N 0° 02' W bet. secs. 16 & 17.
Over stony broken hills ascend through

Subdivision T13 S R4 W.

scattering cedar.

14.00 Ridge 450 ft. above cor. bears N40° W & S40° E.

32.00 Draw 250 ft. below ridge drains S 80° E.

40.00 Set an iron post 3 ft. long, 1in. diam, 26in. in ground, for 1/4 sec. cor. marked on brass cap 1/4 S17 on W half; S16 on E half; from which
A cedar tree, 6in. diam. bears
N 82° 30' E, 92 lks. dist. marked
1/4 S16 B T
A cedar tree 7in. diam. bears
S 85° 30' W, 1.05 chs. dist. marked
1/4 S17 B T

54.00 Black Mts. 275 ft. above draw bear E & W, thence abrupt descent.

64.00 Foot of abrupt descent thence gentle descent & enter rolling land bears E & W.

80.00 Set an iron post 3 ft. long, 2in. diam. 24in. in ground for cor. of secs. 8, 9, 16 & 17 marked on brass cap
T13 S S 8in NW
R4 W S 9in NE
S16in SE
S17in SW, quadrant; from which
A cedar tree, 16in. diam. bears
N 41° 15' E, 1.58 chs. dist. marked
T13 S R4 W S 9 B T
A cedar tree 15in. diam. bears
S 83° E, 1.23 chs. dist. marked
T13 S R4 W S 16 B T
A cedar tree, 14in. diam. bears
S 67° 45' W, 1.49 chs. dist. marked
T13 S R4 W S 17 B T
A cedar tree 17in. diam. bears
N 76° 15' W, 66 lks. dist. marked
T13 S R4 W S 8 B T

S 64.00 chs. broken & hilly.
Ridges, light poor gravelly soil; slopes washed & stony; valleys, good brown sandy loam with some gravel on gravel subsoil.

Subdivision T13S R4W.

N 16.00 chs. rolling land, N slope.
Soil, good brown sandy loam 5 to 21 in. deep, medium texture, dry, clay subsoil.
Timber, cedar.

Sept. 11, 1911. At 3 h 08 m. p.m. l. m. t. I set off 39°42' on the lat. arc; 4°45' N on the decl. arc; & determine a meridian with the cedar at the cor. of secs. 8, 9, 16 & 17.
Thence I run
N 89°51' E on random line bet. secs. 9 & 16.
40.00 Set temp. 1/4 sec. cor.
80.06 Intersect N & S line 5 lks. N of cor. of secs. 9, 10, 15 & 16.
Thence I run
S 89°53' W on true line bet. secs. 9 & 16.
Over rolling land through scattering cedar.
3.00 Leave scattering cedar; enter sagebrush bears N 40° E & S 40° W.
16.00 Leave sagebrush; enter scattering cedar bears N 40° E & S 40° W.
40.03 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 9 on N half; S 16 on S half; from which
A cedar tree 10 in. diam. bears
N 10°45' E, 62 lks. dist. marked
1/4 S 9 B T
A cedar tree, 12 in. diam. bears
S 65° E, 50 lks. dist. marked
1/4 S 16 B T
42.00 Spur 200 ft. high proj. N 20° E.
47.00 Draw 170 ft. below spur. drains N 10° E.
64.00 Spur 100 ft. above draw proj. N.
69.00 Draw 75 ft. below spur drains N.
78.00 Spur 60 ft. above draw proj. N 20° W.
80.06 The cor. of secs. 8, 9, 16 & 17.
Land, rolling N slope.
Soil, good sandy loam 10 to 30 in. deep medium texture, dry, clay and gravel

subsoil.
Timber, cedar; undergrowth, sagebrush.
Sept. 11, 1911.

Sept. 13, 1911. At 1 h 56 m. p.m. l.m.t. I set off 39°42' on the lat. arc; 4°00' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 8, 9, 16 & 17.
Thence I run
N 0°02' W bet. secs. 8 & 9.
Over rolling land through cedar timber.
5.00 Spur 75 ft. above cor. proj. N 40° W.
18.00 Head of draw 100 ft. below spur draws N 40° E.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 8 on W half; S 9 on E half; from which
A cedar tree 20 in. diam. bears
N 70° E, 26 lks. dist. marked
1/4 S 9 B T
A cedar tree 18 in. diam. bears
N 13° W., 1.00 chs. dist. marked
1/4 S 8 B T
45.50 Spur 120 ft. above 1/4 sec. cor. proj. N 45° E.
74.00 Draw 250 ft. below spur draws N 30° E.
78.00 Point of spur 50 ft. above draw proj. N 30° E.
80.00 Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 4, 5, 8 & 9 marked on brass cap
T 13 S S 5 in NW
R 4 W S 4 in NE
S 9 in SE
S 8 in SW, quadrant; from which
A cedar tree 8 in. diam. bears
N 47° 45' E, 66 lks. dist. marked
T 13 S R 4 W S 4 B T
A cedar tree 6 in. diam. bears
S 37° 30' E, 1.12 chs. dist. marked
T 13 S R 4 W S 9 B T
A cedar tree, 10 in. diam. bears
S 38° 45' W, 1.17 chs. dist. marked

Subdivision T13S R4W.

T13S R4W S8BJ
A cedar tree 12 in. diam. bears
N 32° 15' W, 1.34 chs. dist. marked
T13S R4W S5BJ
Land, rolling, N slope.
Soil, good brown sandy loam, 6 to 24 in. deep, medium texture, dry, clay subsoil.
Timber, cedar.

N 89° 53' E on random line bet. secs. 4 & 9.
40.00 Set temp. 1/4 sec. cor.
79.90 Intersect N & S line 7 lks. N of cor. of secs. 3, 4, 9 & 10.
Thence I run
S 89° 56' W on true line bet. secs. 4 & 9
Over rolling land through scattering cedar timber & sagebrush.
39.95 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S4 on N half; S9 on S half; from which
A cedar tree 8 in. diam. bears
S 21° W, 50 lks. dist. marked
1/4 S 9 BJ
A cedar tree 16 in. diam. bears
N 30° W, 46 lks. dist. marked
1/4 S 4 BJ
46.00 Spur 30 ft. high proj. N.
60.00 Leave scattering cedar bears N 20° E & S 20° W.
70.00 Leave sagebrush bears N 20° E & S 20° W.
75.50 Draw 6 ft. below spur drains N 30° E.
77.00 Enter scattering cedar bears N & S.
79.90 The cor. of secs. 4, 5, 8 & 9.
Land, gently rolling, N slope.
Soil, good brown sandy loam, 4 to 24 in. deep, medium texture, dry, clay subsoil.
Timber, cedar. Sept. 13, 1911.
Undergrowth sagebrush.

Sept. 14, 1911. At 7 h 56 m. a. m. l. m. t. I set off 39° 43' on the lat. arc; 3° 43' N on the decl. arc; & determine a meridian with the

Subdivision T13S R4W.

solar at the cor. of secs. 4, 5, 8 & 9.
Thence I run
N0°02' W on true line bet. secs. 4 & 5.
Over rolling land through scattering cedar.

2.00 Leave scattering cedar bears E & W.
9.00 Enter white sage bears E & W.
33.00 Swale, drains W.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S5 on W half; S4 on E half; dig pits 18x18x12 in. N & S of post 3 ft. dist; & raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W of cor.
42.00 Leave white sage; enter sagebrush bears N70°W & S70°E.
44.00 Low ridge 30 ft. high bears E & W.
58.00 Leave sagebrush; enter white sage flat bears N25°E & S25°W.
58.50 Enter plowed ground bears N24°E & S24° W.
70.22 Top of dam to form a reservoir bears N29° 30' W, 2.37 chs. & S29°30' E, 7.40 chs. average height of dam 6 ft.
Leave plowed ground bears S29°30' E & S24° W; area plowed about 5 acres.
83.21 Line of fence posts bears E 19.80 chs. & W 20.30 chs.
84.10 Intersect N. bdy. of Tp. 81 lks. W. of cor. of secs. 4, 5, 32 & 33, heretofore described.
Set an iron post 3 ft. long 2 in. diam. 24 in. in ground for closing cor. of secs. 4 & 5 marked on brass cap
CC T12S R4W S32 & S33 on N half
S4 in SE
S5 in SW, quadrant; dig pits 24x18x12 in. crosswise on line, E & W, 3 ft. & S of cor. 7 ft. dist; & raise a mound of earth 4 ft. base 2 ft. high, S of cor.
I destroy all marks on cor. of secs. 4, 5, 32

& 33 that pertain to secs. 4 & 5.
Land, gently rolling, N & W slopes.
Soil, good sandy loam 5 to 10 in. deep, medium texture, dry, clay subsoil.
Timber, scattering cedar.

Sept. 14, 1911.

Sept. 9, 1911. At 9 h 28 m. a. m. l. m. t. I set off 39° 38' on the lat. arc; 5° 35' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 5, 6, 31 & 32 on the S. bdy of Tp. heretofore described,
Thence I run
N. 0° 01' W. bet. secs. 31 & 32.
Over sandhills & sinks from Tintic Valley through scattering cedar.
12.00 Leave scattering cedar & sinks; enter drifting sandhills bears N 30° E & S 30° W.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 31 on W half; S 32 on E half; dig pits 18 X 18 X 12 in. N & S of post 3 ft. dist; & raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W of cor.
80.00 Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 29, 30, 31 & 32, marked on brass cap
T13S S30 in NW
R4W S29 in NE
S 32 in SE
S 31 in SW, quadrant; dig pits 18 X 18 X 12 in. in each sec. 5 1/2 ft. dist; & raise a mound of earth 4 ft. base 2 ft. high, W of cor.
S 12.00 chs. sandhills & sinks
Soil, light poor sandy loam 1 to 2 ft. deep medium texture, dry, clay subsoil.
N 68.00 chs. drifting sandhills.
Timber, scattering cedar.

Subdivision T13S R4W.

	East on random line bet. secs. 29 & 32.
40.00	Set temp. 1/4 sec. cor.
80.25	Intersect N & S line 28 lks. S. of cor. of secs. 28, 29, 32 & 33.
	Thence I run
	S 89° 48' W on true line bet. secs. 29 & 32.
	Over drifting sandhills.
6.25	Leave drifting sandhills; enter greasewood bears N 30° W & S 30° E.
23.75	Wash 4 ft. deep 40 lks. wide trans S 30° W.
24.25	Leave greasewood; enter drifting sandhills bears N 30° E & S 30° W.
25.20	Wire fence bears N 4° 57' E & S 4° 57' W.
40.12½	Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 29 on N half; S 32 on S half; dig pits 18 x 18 x 12 in. E & W of post 3 ft. dist; & raise a mound of earth 3½ ft. base, 1½ ft. high, N of cor.
80.25	The cor. of secs. 29, 30, 31 & 32.
	Land, rolling & drifting sandhills.
	Soil, sandy loam and drifting sand.
	No timber. Undergrowth greasewood.
	Sept. 9, 1911. At this cor. I set off 5° 33' 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° 39'.
	West on random line bet. secs. 30 & 31.
40.00	Set temp. 1/4 sec. cor.
84.08	Intersect W. bdy. of Tp. 1 lk. N. of cor. of secs 25, 30, 31 & 36, previously described.
	Thence I run
	East on true line bet. secs. 30 & 31.
	Over drifting sandhills.
44.08	Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 30 on N half; S 31 on S half; dig pits 18 x 18 x 12 in. E & W of post 3 ft. dist; & raise a mound of earth 3½ ft. base, 1½ ft. high

Subdivision T13S R4W

N of cor.
84.08 The cor. of secs. 29, 30, 31 & 32.
Land, drifting sandhills.
Soil, drifted sand.
No timber.

Sept. 9, 1911. At 2h 38m. p. m. f. m. t. I set off 39°39' on the lat. arc; 5°30' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 29, 30, 31 & 32.
Thence I run
N 0°01' W bet. secs. 29 & 30.
Over drifting sandhills
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S30 on W half; S29 on E half; dig pits 18x18x12 in. N & S of post 3 ft. dist; & raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W of cor.
75.00 Leave drifting sandhills; enter scattering cedar timber bears E & W.
80.72 Intersect Sectional Correction line 78 lks.
W of cor. of secs. 19, 20, 29 & 30.
Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for closing cor. of secs. 29 & 30 marked on brass cap.
CC T13S R4W S19 S20 on N half
S29 in SE
S30 in SW, quadrant; from which
Cedar tree 36 in. diam. bears
S 53°15' E. 3.95 chs. dist. marked
T13S R4W S29 B T
Cedar tree 30 in. diam. bears
S 27°30' W, 5.51 chs. dist. marked
T13S R4W S30 B T
I destroy all marks on cor. of secs. 19, 20, 29 & 30 that pertain to secs. 29 & 30.
S 75.00 chs. drifting sandhills.
N 5.72 chs. rolling land S slope.
Soil, light poor sandy loam 6 to 11 in.

Subdivision T13S R4W

deep, medium texture, dry. clay subsoil.
Timber, scattering cedar.
Sept. 9, 1911.

Sept. 12, 1911. At 7h 57m. a.m. l.m.t. I set off 39°40' on the lat. arc; 4°29' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 19 & 20,
Thence I run
N 0°02' W bet. secs. 19 & 20
Over gently rolling land & slope through scattering cedar timber.
26.00 Leave scattering cedar bears N 40° W & S 40° E.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S19 on W half; S20 on E half; dig pits 18 x 18 x 12 in. N & S of post 3 ft. dist; & raise a mound of earth 3/2 ft. base, 1/2 ft. high, W of cor.
68.00 Road Leamington to Cherry Creek bears N 40° W & S 40° E.
68.75 Leave rolling; enter hilly land, limestone formation bears E & W.
70.00 Enter scattering cedar bears E & W.
80.00 Set an iron post 3 ft. long 2 in. diam. 24 in. in ground for cor. of secs. 17, 18, 19 & 20 marked on brass cap.
T13 S S18 in NW
R4 W S17 in NE
S20 in SE
S19 in SW, quadrant; from which
A cedar tree, 10 in. diam. bears N 53°30' E, 95 lks. dist. marked T13 S R4 W S17 B T
A cedar tree, 10 in. diam. bears S 44°30' E, 74 lks. dist. marked T13 S R4 W S 20 B T
A cedar tree, 6 in. diam. bears S 57°30' W, 1.30 chs. dist. marked T13 S R4 W S 19 B T
A cedar tree 8 in. diam. bears

Subdivision T13SR4W.

N 20° 45' W, 1.18 chs. dist. marked
T13SR4W S18 B T
This cor. is 150 ft. above base of hills.
S 68.75 chs. gently rolling land S slope.
Soil, light poor sandy loam 1 to 2 ft. deep
medium texture, dry clay subsoil.
N 11.25 chs. broken & hilly.
Soil, stony & gravelly, washed.
Timber, scattering cedar.

East on random line bet. secs. 17 & 20
40.00 Set temp. 1/4 sec. cor.
80.22 Intersect N & S line 3 lks. N of cor. of secs.
16, 17, 20 & 21.
Thence I run
N 89° 59' W on true line bet. secs. 17 & 20.
Over broken stony hills through scatter
ing cedar timber, descend.
3.10 Draw 50 ft. below cor. drains S 15° W.
19.00 Spur 100 ft. above draw proj. S.
30.50 Draw 125 ft. below spur drains S 40° E.
40.11 Set an iron post 3 ft. long, 1 in. diam. 26 in.
in ground for 1/4 sec. cor. marked on brass
cap 1/4 S17 on N half; S20 on S half; from which
A cedar tree 15 in. diam. bears
N 83° 15' E, 75 lks. dist. marked
1/4 S17 B T
A cedar tree 24 in. diam. bears
S 53° W, 12 lks. dist. marked
1/4 S20 B T
51.00 Ridge bears N 75° W, & S 75° E.
80.22 The cor. of secs. 17, 18, 19 & 20.
This cor. is 200 ft. below top of ridge.
Land, broken & hilly.
Ridges, light poor sandy loam, stony,
washed on slopes; valleys, light sandy
loam with some gravel on limestone
base.
Timber, scattering cedar.

Subdivision T13SR4W

	West on true line bet. secs. 18 & 19.
	Over broken, hilly stony land through scattering cedar, descend.
3.70	Leave hilly stony land & cedar timber; enter gently rolling sandy land bears N & S.
4.30	Road, Leamington to Cherry Creek bears N30°W & S30°E.
40.00	Set an iron post 3 ft. long 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S18 on N half; S19 on S half; dig pits 18x18x12 in. E & W of post 3 ft. dist; & raise a mound of earth 3½ ft. base, 1½ ft. high, N of cor.
70.00	Enter scattering cedar bears N & S
74.00	Foot of Little Mountain bears N & S.
84.00	Top of Little Mountain, spur. 100 ft. high, prof. S10°W.
84.87	Intersect W. bdy. of Tp. 82 lks. N. of cor. of secs. 13, 18, 19 & 24, heretofore described
	Set an iron post 3 ft. long 2 in. diam. 24 in. in ground for closing cor. of secs. 18 & 19 marked on brass cap
	T13S on N half
	CCR5W S13 S24 on W half
	S18 in NE
	R4W S19 in SE, quadrant; from which
	A cedar tree 12 in. diam. bears
	N32°20'E, 1.20 chs. dist. marked
	T13SR4W S18 B.T
	A cedar tree 8 in. diam. bears
	S43°15'E, 32 lks. dist. marked
	T13SR4W S19 B.T
	Obliterate all marks on cor. of secs. 13, 18, 19 & 24 that pertain to secs. 18 & 19.
	W10.87 & E3.70 chs. broken & hilly.
	Soil, light poor drifted sand & gravel.
	Remainder of mile rolling land S. slope.
	Soil, light poor sandy loam 4 to 16 in. deep medium texture, dry, clay subsoil.
	Timber, cedar.
	Sept. 12, 1911. At this cor. I set off 4°24' N on

Subdivision T13SR4W.

the decl. arc; and at 11h 57m 0s l.m.t. observe the sun on the meridian the resulting lat. is 39°41'.

N 0°02' W bet. secs. 17 & 18.
Over broken hilly land through scattering cedar.
1.00 West point of ridge bears S 75° E & N 75° W.
6.00 Foot of hills 200 ft. below cor.; enter rolling land bears E & W.; also leave scattering cedar bears E & W.
12.50 Wash 6 ft. deep, 25 lks. wide drains S 75° W.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S18 on W half; S17 on E half; dig pits 18 x 18 x 12 in. N & S of post, 3 ft. dist; & raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W of cor.
48.15 Wash 5 ft. deep 20 lks. wide drains S 75° W.
50.00 Enter scattering cedar bears N 40° W & S 40° E.
58.00 Spur 100 ft. high proj. W.
70.00 Leave scattering cedar bears N 40° W & S 40° E.
78.00 Draw 75 ft. below spur drains S 80° W.
80.00 Point of low spur 20 ft. above draw proj. S 80° W.
Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 7, 8, 17 & 18 marked on brass cap
T13S S7 in NW
R4W S8 in NE
S17 in SE
S18 in SW, quadrant; raise a mound of stone 2 ft. base, 1 1/2 ft. high, W of cor.
Pits impracticable
S 6.00 chs. broken & stony limestone formation.
N 74.00 chs. rolling land W slope.
Soil, light poor sandy loam 5 to 10 in. deep medium texture, dry; gravel subsoil.
Timber cedar

Sept. 12, 1911. At 2h 45m p.m. l.m.t. I set off 39°42' on the lat. arc; 4°22' N on the decl.

Subdivision T13S R4W.

arc; & determine a meridian with the solar at the cor. of secs. 7, 8, 17 & 18.
Thence I run
S89°59'E on random line bet. secs. 8 & 17.
40.00 Set temp. 1/4 sec. cor.
80.10 Intersect N & S line 3 lks. S. of cor. of secs. 8, 9 16 & 17.
Thence I run
West on true line bet. secs. 8 & 17
Over rolling land through cedar timber descend.
4.00 Enter sagebrush bears N40°E & S40°W.
37.00 Small draw drains N10°W.
39.50 Small spur 40 ft. above draw proj. N10°W
40.05 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S8 on N half; S17 on S half; from which
A cedar tree, 6 in. diam. bears
N85°30'E, 110 chs. dist. marked
1/4 S 8 B T
A cedar tree 10 in. diam. bears
S30°E. 24 lks. dist. marked
1/4 S17 B T
47.00 Leave scattering cedar bears N & S.
58.00 Leave sagebrush; enter white sage bears N40°E & S40°W.
77.00 Bottom of draw 150 ft. below 1/4 sec. cor. drains S80°W; leave white sage bears N70°E & S70°W.
80.10 The cor. of secs. 7, 8, 17 & 18.
Land, gently rolling N & W slope.
Soil, good brown sandy loam 5 to 20 in. deep, clay subsoil.
Timber, cedar; undergrowth, sagebrush.

West on true line bet. secs. 7 & 18.
Over rolling land.
12.00 Draw drains S80°W.
16.05 Road, Leamington to Cherry Creek bears N & S.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in

Subdivision T13SR4W.

ground for 1/4 sec. cor. marked on brass cap
1/4 S 7 on N half; S 18 on S half; dig pits 18x18
x12 in. E & W of post 3 ft. dist; & raise a mound
of earth 3 1/2 ft. base, 1 1/2 ft. high, N of cor.
70.00 Enter sagebrush bears N & S.
84.81 Intersect W. bdy. of Tp. 93 lks. N of cor. of secs.
7, 12, 13 & 18 previously described.
Set an iron post 3 ft. long, 2 in. diam. 24 in.
in ground for closing cor. of secs. 7 & 18 marked
on brass cap
T13S on N half
CCR5W S 12 S 13 on W half
S 7 in NW
R4W S 18 in SE, quadrant; from which
A cedar tree 6 in. diam. bears
S 21° E, 1.53 chs. dist. marked
T13S R4W S18 B T
No other trees in limits; Dig pits 24x18x12
in. crosswise on each line, N & S, 3 ft; & E
of post 7 ft. dist; & raise a mound of earth
4 ft. base, 2 ft. high, E of cor.
I destroy all marks on cor. of secs. 7, 12, 13
& 18 that pertain to secs. 7 & 18.
From this cor. sinks of Jericho Wash bear
N 40° E, 25.00 chs.
Land, rolling W slope.
Soil, light sandy loam 5 to 12 in. deep
medium texture, dry, clay subsoil.
No timber.

Sept. 12, 1911.

Sept. 14, 1911. At 10 h 00 m. a.m. l. m. t. I set off
39° 42' on the lat. arc; 3° 41' N on the decl. arc;
& determine a meridian with the solar at
the cor. of secs. 7, 8, 17 & 18.
Thence I run
N 0° 02' W bet. secs. 7 & 8.
Over rolling land W slope.
8.00 Small draw 25 ft. below cor. drains S 80° W.
12.00 Enter scattering cedar bears N 20° E & S 20° W.

Subdivision T13SR4W

23.75 Spur 110 ft. above draw proj. S70°W.
29.00 Leave cedars bear E & W.
34.00 Draw 95 ft. below spur drains W.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap
1/4 S7 on W half; S8 on E half; from which
A lone cedar tree, 10 in. diam. bears
S 38°30' E, 7.35 chs. dist. marked
1/4 S8 B T
No other trees in limits; Dig pits 18X18X12 in. N & S of post 3 ft. dist; & raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W of cor.
70.80 Road, Leamington to Cherry Creek bears N 30° E & S 30° W.
80.00 Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 5, 6, 7 & 8 marked on brass cap
T13 S 5 in NW
R4W S 5 in NE
S 8 in SE
S 7 in SW, quadrant; from which
A lone cedar 8 in. diam. bears
S 87°02' W, 15.31 chs. dist. marked
T13 S R4W S 7 B T
No other trees in limits: Dig pits 18X18X12 in. in each sec. 5 1/2 ft. dist; & raise a mound of earth 3 1/2 ft. base, 2 ft. high, W of cor.
Land, rolling. W slope.
Soil, light sandy loam 1 to 2 ft. deep, medium texture, dry, clay subsoil.
Timber, scattering cedar.

East on random line bet. secs. 5 & 8.
40.00 Set temp. 1/4 sec. cor.
80.12 Intersect N & S line 7 lks. N. of cor. of secs. 4, 5, 8 & 9.
Sept. 14, 1944; At this cor. I set off 3°39' 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°43'.

Subdivision T13S R4W.

	Thence I run
	N 89°57' W on true line bet. secs. 5 & 8.
	Over rolling hills along N. slope, through
	scattering cedar.
6.50	Small spur proj. N.
32.00	Head of draw drains N.
40.06	Set an iron post 3 ft. long, 1 in. diam. 26 in. in
	ground for 1/4 sec. cor. marked on brass cap 1/4
	S5 on N half; S8 on S half; from which.
	A cedar tree, 6 in. diam. bears
	N 80°45' W, 1.24 chs. dist. marked
	1/4 S5 B T
	A cedar tree 6 in. diam. bears
	S 9°50' W, 1.08 chs. dist. marked
	1/4 S8 B T
42.00	Spur 150 ft. above draw proj. N 40° W.
42.88	Gate of brush sheep corral bears N 72° W.
58.00	Leave scattering cedar bears N 30° E & S 30° W.
60.00	Gate of brush sheep corral bears N 67°45' E,
	also foot of spur 200 ft. below top; enter gently
	rolling land bears N & S.
72.80	Road, Leamington to Cherry Creek bears N 30° E
	& S 30° W.
80.12	The cor. of secs. 5, 6, 7 & 8.
	E 60.00 chs. rolling hills.
	Soil, light poor sandy loam with some
	gravel & stones, gravel subsoil.
	W 20.12 chs. rolling land, NW slope.
	Soil, light sandy loam 1 to 2 ft. deep, medium
	texture, dry, clay subsoil.
	Timber, scattering cedar.

	West on true line bet. secs. 6 & 7.
	Over rolling land.
26.00	Drifted sand ridge 12 ft. high bears N 40° E
	& S 40° W.
32.50	Jericho Wash 12 ft. deep 50 lks. wide drains
	S 40° W.
40.00	Set an iron post 3 ft. long, 1 in. diam. 26 in.
	in ground for 1/4 sec. cor. marked on brass cap

Subdivision T13SR4W.

¼ S6 on N half; S7 on S half; dig pits 18x18x12 in. E & W of post 3 ft. dist; & raise a mound of earth 3½ ft. base, 1½ ft. high, N of cor.
63.00 Enter drifting sandhills bears N30°E & S30°W.
84.84 Intersect W bdy of Tp. 93 lks. N of cor. of secs. 1-6-7 & 12 previously described.
Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for closing cor. of secs. 6 & 7 marked on brass cap
T13S on N half
CCR5W S1 S12 on W half
S6 in NE
R4W S7 in SE, quadrant; dig pits 24x18x12 in. crosswise on each line N & S, 3 ft. N & E of cor. 7 ft. dist; & raise a mound of earth 4 ft. base 2 ft. high, E of cor.
I destroy all marks on cor. of secs. 1, 6, 7 & 12 that pertain to secs. 6 & 7.
E 63.00 chs. rolling land SW slope.
Soil, light sandy loam 5 to 15 in. deep medium texture, dry, clay subsoil.
W 17.00 chs. drifting sandhills.
No timber.

Sept. 14, 1911. At 4h 0.0m. p. m. l. m. t. I set off 39'43' on the dat. arc; 3°35' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 5, 6, 7 & 8.
Thence I run
N 0°02' W on true line bet. secs. 5 & 6.
Over gently rolling land.
17.50 Jericho Wash 15 ft. deep, 80 lks. wide drains S45°W.
39.00 Enter sagebrush bears N35°E & S35°W.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for ¼ sec. cor. marked on brass cap ¼ S6 on W half; S5 on E half; dig pits 18x18x12 in. N & S of post 3 ft. dist; & raise a mound of earth 3½ ft. base, 1½ ft. high, W of cor.
84.18 Intersect N. bdy. of Tp. 95 lks. W of cor. of secs.

Subdivision T13S R4W.

5, 6, 31 & 32, previously described.
Set an iron post 3 ft. long, 2 in. diam., 24 in. in ground for closing cor. of secs. 5 & 6 marked on brass cap
CC T12S R4W S31 S32 on N. half
S5 in SE
S6 in SW, quadrant; from which
A cedar tree, 16 in. diam. bears
S 20° 30' W, 2.46 chs. dist. marked
T13S R4W S6 B.T.
No other trees in limits. Dig pits 24 x 18 x 12 in. crosswise on each line, E & W of post 3 ft; & S of post 7 ft. dist; & raise a mound of earth 4 ft. base, 2 ft. high, S of cor.
I destroy all marks on cor. of secs. 5, 6, 31 & 32 that pertain to secs. 5 & 6.
Land, gently rolling SW slope.
Soil, light sandy loam 1 to 4 ft. deep, medium texture, dry, clay subsoil.
No timber.

Sept. 14, 1911.

General Description

This fractional township contains a variety of land from gently rolling to mountainous and the soil ranges from light drifting sand to good brown sandy loam.

The soil of the lower lands along the wash from Tintic Valley, Jericho Wash, and north of the Black Mountains is generally good brown sandy loam capable of producing small to fair crops of wheat & corn, wet seasons if tilled by modern dry farming methods.

The Black Mountains which are of limestone formation have a scattering growth of scrubby cedar timber.

There is no water in this fractional

township and from present indications it can never be furnished for irrigation.
Flood water from Jericho Wash sinks in sec. 7.
A part of secs. 7, 29 & 32 and the greater part of secs. 6, 30 & 31 are covered with drifted sandhills which are gradually being drifted in a north easterly direction.
Flood water from Tintic Valley sinks in secs. 28, 32 & 33.
All of this fractional township except secs. 8, 9 & 10 which are protected by the Black Mountains is exposed to dry, hot, south-west winds very detrimental to vegetation.
There is some white sage in the northern part of this fractional township which affords winter graging for cattle & sheep.
Peter Mayer has a well 100 ft. deep in SW 1/4 of sec. 28, but found no water, also has a canal & reservoir to catch flood water from Tintic Valley.
In sec. 33 he has a cabin & corrals and about five miles of fence in secs. 22, 28, 29, 32 & 33. Estimated value of Peter Mayers improvements $3000.00
S. P. L. A & S.L. R.R. siding named Champlin is in west half of sec. 33.
The only indications I found of George D. Jacksons Desert Entry are a row of cedar posts along N. bdy. of sec. 4, a dam to catch flood water also in sec. 4, and two small plots of plowed ground of about 9 acres in secs. 4 & 5.
I was unable to find any trace of Ferdinand Erickson, O. F. Wall, H. L. Coates, Louis Erickson, Nels Larson, George Christensen, Andrew Neilson, Chas. Oldham, James Borg and Ole Hanson or their improvements.

John W. Dougall
U. S. Transitman

BOOK A-380

4—680

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, John W. Dougall, U. S. Surveyor, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of Townships No. 12 and 13 South Range No., 4 West, being the retracement of ~~East; ret.and survey of South; ret.and survey of West; and ret.and re-~~ survey of North Bdrs.T.12 S., R.4 W.; survey of part of South and the West Bdrs. T.13 S., R.4 W.; and the subdivisional lines of Townships 12 and 13 S., R.4 W.

of the Salt Lake Base and Meridian, in the State of Utah. which are represented in the foregoing field notes as having been executed 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 executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	
Wilford W. Clyde	Aug.,1, 1911	Sept.,15,1911	Chainman
Lyle A. Goubeck	Aug,3,1911	Sept., 15,1911	Chainman,
William H. Kelsey Jr.	Aug.8,1911,	Sept, 15,1911	Moundman
Samuel Ritchie	Aug11,1911	Sept,.12,1911	Axman
Earl Diamond.	Aug, .3,1911	Sept.15 ,1911	Flagman.

Subscribed and certified to before me on the dates of the final service as shown above.

John W. Dougall
U. S. ~~Surveyor~~ Transitman.

6—2761

FINAL OATH OF UNITED STATES SURVEYOR.

I, John W. Dougall, Transitman, U. S. Surveyor, do solemnly swear that, in pursua of special instructions received from the U. S. Surveyor General for Utah. bearing date of the 27 th. day of March, 1911, I have well, faithfully, and tr in my own proper person, and in strict conformity with said instructions, the Manual of Survey Instructions, and the laws of the United States, surveyed all those parts or portions of Townships No. 12 and 13 South Range No., 4 West, being the retracement of I ret. and survey of South; ret. and survey of West; and ret. and resurve North Bdrs. T. 12 S., R. 4 W.; survey of part of South and the West Bdr T. 13 S., R. 4 W.; and the subdivisional lines of Townships 12 and 13 R. 4 W. of the Salt Lake Base and Meridian, in the State of Utah, which are represente the foregoing field notes in books C.D.E.& F. as having been executed by me, and under my direction; and I do fur solemnly swear that all the corners of said survey have been established and perpetuated in strict acc ance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surve General for State of Utah. and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey.

John W. Dougall
~~U. S. Surveyo~~
U.S.Transitman.

Subscribed by said John W.Dougall, and sworn to before me this 15 day of June, 1912.

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 30 191

The foregoing field notes of the survey of the Subdivisonal lines of Townshi No. 13 South, Range No. 4 West of the Salt Lake Base and Meridian, Utah

executed by John W. Dougall under his special instructions dated March 27, 191 1, having b critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Thomas Kell
U. S. 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 offic

U. S. Surveyor Genera

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4—679

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BOOK A-380

M.S.B.

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION.

of

Township No. 12 South ,Range No., 4 West

Of the Salt Lake Base and *Meridian,*

In the State of Utah.

EXECUTED BY

John W.Dougall,

In the capacity of U. S. ~~Surveyor~~ Transitman, *under instructions dated* March ,27,1911 *191*, *issued by the United States Surveyor General to govern surveys included in Group No.* 10 Utah, *which were approved by the Commissioner of the General Land Office,* April 22, *1911, pursuant to authority contained in the Act of Congress dated* , *191*

Survey commenced August ,14, 1911, *191*

Survey completed August30,1911, *191*

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60-70-91 Closing 0-38-72

Book A-380

INDEX DIAGRAM.

Township 12 South, Range 4 West

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Subdivision T 12 S R 4 W.

Survey commenced Aug 14, 1911, and executed with a W & L. E. Gurley light mountain transit, no number with solar attachment.

For full description of instrument see Book C.

Knowing my instrument is in perfect adjustment from recent observations on Polaris,

Aug. 14, 1911. At 7 h 35 m. a. m. l. m. t. I set off 39° 43' on the lat. arc; 14° 37' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 1, 2, 35 & 36 on the S bdy. of Tp; cor. before described.

Thence I run

N 0° 01' W bet. secs. 35 & 36.

Over rolling land, ascend through small sagebrush.

14.00 Enter cedar timber bears N 45° E & S 45° W.

33.00 Small draw drains S 10° E.

40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in in ground for 1/4 sec. cor. marked on brass cap 1/4 S 35 on W half; S 36 on E half; from which

A cedar tree 8 in. diam. bears N 71° E, 2.40 chs. dist. marked 1/4 S 36 B T

A cedar tree 6 in. diam. bears N 35° 30' W, 2.47 chs. dist. marked 1/4 S 35 B T.

63.75 Small draw drains S 10° W.

80.00 Set an iron post 3 ft. long, 2 in. diam. 24 in in ground for cor. of secs. 25, 26, 35 & 36, marked on brass cap

T 12 S S 26 in NW

R 4 W S 25 in NE

S 36 in SE

S 35 in SW, quadrant; from which

A cedar tree, 14 in. diam. bears N 81° E, 27 lks. dist. marked T 12 S R 4 W S 25 B T

Subdivision T 12 S R 4 W

A cedar tree 14 in. diam. bears
S 45° E, 95 lks. dist. marked
T 12 S R 4 W S 36 B T.
A cedar tree, 12 in. diam. bears
S 49° W, 1.20 chs. dist. marked
T 12 S R 4 W S 35 B T
A cedar tree 16 in. diam. bears
N 22° W, 50 lks. dist. marked
T 12 S R 4 W S 26 B T.
Land, rolling; S slope.
Soil on S 50.00 chs. good brown sandy loam, 4 to 20 in. deep, medium texture dry, clay subsoil.
N 30.00 chs. poor gravelly soil, gravel subsoil.
Timber, cedar.

East on random line bet. secs. 25 & 36.
40.00 Set temp. 1/4 sec. cor.
80.25 Intersect E bdy. of Tp. 80 lks. S of cor. of secs. 25, 30, 31 & 36 before described.
Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 25 & 36 marked on brass cap
T 12 S on N half
R 3 W S 30 S 31 on E half
S 25 in NW
R 4 W S 36 in SW, quadrant; dig pits 24 x 24 x 12 in. in each sec. 6 ft. dist; & raise a mound of earth 4 ft. base, 2 ft. high, W of cor.
I destroy all marks on cor. of secs. 25, 30, 31 & 36 that pertain to secs. 25 & 36.
Thence I run
West on true line bet. secs. 25 & 36.
Over rolling land through shadscale.
14.00 Leave shadscale; enter scattering cedar timber & sagebrush, bears N 20° W & S 20° E.
18.00 Spur 75 ft. above cor. proj. S 30° E.
23.50 Draw 70 ft. below spur drains S 30° E.

Subdivision T12 S R 4 W

40.12½ Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for ¼ sec. cor. marked on brass cap ¼ S 25 on N half; S 36 on S half; from which
A cedar tree, 16 in. diam. bears N 77° 15' E, 3.12 chs. dist. marked ¼ S 25 B J
A cedar tree, 8 in. diam. bears S 69° W, 3.54 chs. dist. marked ¼ S 36 B J
52.00 Spur 110 ft. above draw proj. S 15° E.
55.00 Draw 125 ft. below spur drains S 20° E.
68.60 Spur 150 ft. above draw proj. S 30° E.
70.70 Draw 100 ft. below spur drains S 10° E.
80.25 The cor. of secs. 25, 26, 35 & 36.
Land, rolling; S E slope.
Soil, stony & gravelly, dry, gravel subsoil.
Timber, cedar.
Aug. 14, 1911. At this cor. I set off 14° 33' N on the decl. arc; & at 12 h 05 m p.m. l. m. t. observe the sun on the meridian, the resulting lat. is 39° 44' N.

N 0° 01' W bet. secs. 25 & 26.
Over rolling land, ascend through cedar & small sagebrush.
8.00 Spur 50 ft. above cor. proj. S 20° W.
15.00 Draw 60 ft. below spur drains S 20° W.
20.00 Enter rolling mountainous land bears N 20° E & S 20° W; ascend.
38.00 Head of draw, drains S 6° W.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for ¼ sec. cor. marked on brass cap ¼ S 26 on W half; S 25 on E half; from which
A cedar tree, 7 in. diam. bears N 45° E, 5 lks. dist. marked ¼ S 25 B J
A cedar tree, 10 in. diam. bears West, 7 lks. dist. marked ¼ S 26 B J.
45.00 Leave cedar timber bears N 80° W & S 80° E.

Subdivision T 12 S R 4 W

47.25 Jericho Ridge 500 ft. high bears N 80° E & S 80° W.

55.50 Foot of descent 350 ft. below ridge bears E & W, thence gentle descent through sage brush.

68.00 Bottom of draw drains N 60° W, ascend

69.00 Leave sagebrush bears E & W.

79.00 Top of west point of spur 200 ft. above draw proj. W.

80.00 Set an iron post 3 ft. long 2 in. diam. 24 in in ground for cor. of secs. 23, 24, 25, & 26 marked on brass cap

T 12 S S 23 in NW

R 4 W S 24 in NE

S 25 in SE

S 26 in SW, quadrant; raise a mound of stone 2 ft. base, 1½ ft. high, W of cor.

Pits impracticable.

S 20.00 chs. high rolling land, S slope.

Soil, light poor sandy loam with gravel & stones, coarse texture, dry, gravel subsoil.

N 60.00 chs. broken & hilly.

Ridges & slopes, light poor sandy soil with stones & gravel; valleys, good brown clay loam, gravel subsoil.

Timber, cedar.

Aug. 14, 1911 At 3 h. 35 m. p.m. l. m. t. I set off 39° 45' on the lat. arc; 14° 31' N on the decl arc; & determine a meridian with the solar at the cor. of secs. 23, 24, 25 & 26.

Thence I run

East on random line bet. secs. 24 & 25.

40.00 Set temp ¼ sec. cor.

80.13 Intersect E. bdy. of Tp. 1.29 chs. S of cor. of secs. 19, 24, 25 & 30, before described.

Set an iron post 3 ft. long 2 in. diam. 24 in in ground for cor. of secs. 24 & 25 marked on brass cap:

Subdivision T 12 S R 4 W.

T 12 S on N half
R 3 W S 19 S 30 on E half
S 24 in NW
R 4 W S 25 in SW. quadrant; from which
A cedar tree 6 in. diam. bears
N 2° 40' W, 3.17 chs. dist. marked
T 12 S R 4 W S 24 B J
Dig pits 24 x 24 x 12 in. in each sec. 6 ft. dist.
& raise a mound of earth 4 ft. base 2 ft.
high, W of cor. No other trees within limits.
I destroy all marks on cor. of secs. 19, 24, 25
& 30 that pertain to secs. 24 & 25.
Thence I run
West on true line bet. secs. 24 & 25
Over rolling bench land through sagebrush
28.00 Foot of abrupt ascent bears N & S; leave
sagebrush.
33.50 Enter cedar timber bears N 20° E & S 20° W.
36.00 Quartzite ledge 15 ft. high bears N & S.
40.06½ Set an iron post 3 ft. long, 1 in. diam, 26 in.
in ground for ¼ sec. cor. marked on brass cap
¼ S 24 on N half; S 25 on S half; from which
A cedar tree 10 in. diam. bears
N 66° W, 70 lks. dist. marked
¼ S 24 B J
A cedar tree 8 in. diam. bears
S 56° W, 74 lks. dist. marked
¼ S 25 B J
42.50 Top of Jericho Ridge 550 ft. high bears
N 20° E & S 20° W; thence descend gently
along spur proj. W.
66.00 Saddle in Spur; leave cedar timber bears
N 60° W & S 60° E.
75.00 Top of west end of spur, descend.
80.13 The cor. of secs. 23, 24, 25 & 26.
E 28.00 chs. gently rolling bench land,
S.E. slope.
Soil, rich brown clay loam, 6 to 20 in. deep
fine texture, dry, clay subsoil.
W 52.13 chs. broken & hilly.

Subdivision T 12 S R 4 W.

Soil, stony & gravelly with small quantities of clay & sand.
Timber, cedar.

Aug 14, 1911.

Aug 15, 1911. At 8h 05m. a. m. l. m. t. I set off 39°45' on the lat. arc; 14°18' N on the decl. arc & determine a meridian with the solar at the cor. of secs. 23, 24, 25 & 26.
Thence I run
N 0°01' W bet. secs. 23 & 24.
Over stony rolling mountainous land, descend.

10.00 Foot of abrupt stony descent, thence gentle descent: leave mountainous land: enter gently rolling land & sagebrush bears N 70° E & S 70° W.

38.00 Wash 2 ft. deep 15 lks. wide drains N 30° E.

40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 23 on W half; S 24 on E half; dig pits 18 X 18 X 12 in N & S of post 3 ft. dist. & raise a mound of earth 3½ ft. base, 1½ ft. high, W of cor.

62.00 Wash 3 ft. deep 15 lks. wide drains N 60° E.

66.20 Road, Silver City to Cherry Creek bears N 60° E & S 60° W.

71.00 Foot of ascent: enter stony formation bears E & W.

78.00 Enter cedar timber, bears E & W.

79.50 Top of ridge 200 ft. high bears E & W.

80.00 Set an iron post 3 ft. long 2 in. diam. 24 in. in ground for cor. of secs. 13, 14, 23 & 24 marked on brass cap
T 12 S S 14 in NW
R 4 W S 13 in NE
S 24 in SE
S 23 in SW, quadrant; from which
A cedar tree 10 in. diam. bears
N 61° E, 36 lks. dist. marked

Subdivision T12S R4W.

T12S R4W S13 B J
A cedar tree 12 in. diam. bears
S70°E, 26 lks. dist. marked
T12S R4W S24 B J
A cedar tree, 16 in. diam. bears
S58°W. 25 lks. dist. marked
T12S R4W S23 B J
A cedar tree, 10 in. diam. bears
N68°W, 35 lks. dist. marked
T12S R4W S14 B J
S10.00 chs & N 9.00 chs. broken & hilly
Soil, stony gravelly & sandy.
Remainder of this mile is gently rolling
Soil, good brown clay loam 4 to 20 in.
deep; fine texture, dry, clay & gravel subsoil
Timber, cedar; undergrowth, sagebrush.

East on random line bet. secs. 13 & 24.
40.00 Set temp. 1/4 sec. cor.
80.25 Intersect E. bdy. of Tp. 2.25 chs. S of cor. of
secs. 13, 18, 19 & 24 before described.
Set an iron post 3 ft. long 2 in. diam. 24 in
ground for cor. of secs. 13 & 24 marked on
brass cap
T12S on N half
R3W S18 S19 on E half
S13 in NW
R4W S24 in SW, quadrant; from which
A cedar tree 8 in. diam. bears
S57°30'W, 95 lks. dist. marked
T12S R4W S24 B J
A cedar tree 16 in. diam. bears
N71°30'W, 1.27 chs. dist. marked
T12S R4W S13 B J
I destroy all marks on cor. of secs. 13, 18, 19 &
24 that pertain to secs. 13 & 24.
Thence I run
West on true line bet. secs. 13 & 24.
Over rolling bench land through scat-
tering cedar & sagebrush, ascend.

Subdivision T12S R4W

16.00 Leave scattering cedar bears N & S, ascend along S slope.
20.00 Begin descent along S slope of stony hill.
32.50 Foot of stony descent bears N & S.
35.00 Wash 3 ft. deep 15 lks. wide drains S10°E.
40.12½ Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S13 on N half; S24 on S half; dig pits 18x18x12 in. E & W of post 3 ft. dist; & raise a mound of earth 3½ ft. base, 1½ ft. high N of cor.
43.00 Wash 5 ft. deep 50 lks. wide drains S45°E.
49.30 Road, Silver City to Cherry Creek bears N45°E, & S45°W.
74.00 Begin ascent at East end of stony ridge.
78.00 Enter cedar timber bears N80°E & S80°W.
80.25 The cor. of secs. 13, 14, 23 & 24.
E 74.00 chs. gently rolling land S.E. slope
Soil, good brown clay loam 10 to 30 in. deep, fine texture, dry, clay & gravel subsoil
West 6.25 chs. hilly & stony.
Timber, cedar; undergrowth, sagebrush.
Aug 15, 1911. At this cor. I set off 14°15' N on the dist. arc; and at 12 h. 05' m. l. m. t. observe the sun on the meridian, the resulting lat. is 39°46' N.

N 0°01' W bet. secs. 13 & 14.
Over rolling stony land through heavy cedar timber & sagebrush, descend.
6.00 Foot of stony descent bears E & W: leave heavy cedar timber & sagebrush, enter scattering cedar timber bears E & W.
17.00 Draw 110 ft. below cor. drains E.
38.10 Wash 3 ft. deep 30 lks. wide drains S60°E.
110.00 Set an iron post 3 ft. long 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S14 on W half; S13 on E half; from which
A cedar tree 14 in. diam. bears
N 6° E 1.30 chs. dist. marked
1/4 S 13 B J

Subdivision T 12 S R 4 W.

A cedar tree 12 in. diam. bears S 31° 30' W, 1.00 ch. dist. marked 1/4 S 14 B T

42.00 Leave scattering; enter heavy cedar timber bears N 60° W & S 60° E.

53.50 Wash 3 ft. deep 20 lks. wide drains S 30° E. Leave heavy; enter scattering cedar timber bears E & W.

72.00 Leave scattering; enter heavy cedar bears E & W.

77.00 Spur 75 ft. high proj. S 60° E.

79.00 Leave heavy; enter scattering cedar timber bears N 60° W & S 60° E.

80.00 Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 11, 12, 13 & 14, marked on brass cap

T 12 S S 11 in NW
R 4 W S 12 in NE
S 13 in SE
S 14 in SW, quadrant; from which

A cedar tree 10 in. diam. bears N 7° 30' E, 3.46 chs. dist. marked T 12 S R 4 W S 12 B T

A cedar tree 6 in. diam. bears S 39° E, 2.05 chs. dist. marked T 12 S R 4 W S 13 B T

A cedar tree 8 in. diam. bears S 32° W, 36 lks. dist. marked T 12 S R 4 W S 14 B T

A cedar tree 18 in. diam. bears N 17° 30' W, 77 lks. dist. marked T 12 S R 4 W S 11 B T

Land, rolling & hilly, SE slope.
Soil on S 6.00 chs. stony & gravelly.
N 74.00 chs. good brown clay loam 6 to 20 in. deep, fine texture, dry, clay & gravel subsoil.
Timber, cedar; undergrowth, sagebrush.

Aug. 15, 1911. At 3 h. 05 m. p. m. l. m. t. I set off 39° 47' on the lat. arc; 14° 13' N on the decl. arc;

Subdivision T12S R4W.

and determine a meridian with the solar at the cor. of secs. 11, 12, 13 & 14.
Thence I run
East on a random line bet. secs. 12 & 13.
40.00 Set temp. 1/4 sec. cor.
80.32 Intersect E bdy of Tp 3.53 chs. S of cor. of secs. 7, 12, 13 & 18, cor. before described.
Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 12 & 13 marked on brass cap
"T12S on N half
R3W & 7 S18 on E half
S12 in NW
R4W S13 in SW, quadrant; from which
A cedar tree 12 in. diam. bears
S19° W, 3.60 chs. dist. marked
T12S R4W S13 B J
A cedar tree 7 in. diam. bears
N37° W 2.36 chs. dist. marked
T12S R4W S12 B J
I destroy all marks on cor. of secs. 7, 12, 13 & 18 that pertain to secs. 12 & 13.
Thence I run
West on true line bet. secs. 12 & 13.
Over rolling land through scattering cedar timber & sagebrush.
16.30 Leave scattering: enter heavy cedar bears N70° E & S70° W.
24.25 Small draw drains N80° E.
40.16 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S12 on N half; S13 on S half; from which
A cedar tree 12 in. diam. bears
N53° E, 41 lks. dist. marked
1/4 S12 B J
A cedar tree, 16 in. diam. bears
S20° E, 66 lks. dist. marked
1/4 S13 B J
44.00 Spur 150 ft. above cor. proj. S60° E.
60.30 Wash, in small draw, 2 ft. deep, 15 lks.

Subdivision T 12 S R 4 W

wide drains S 20° E.
64.30 Low spur proj. S 20° E: leave heavy: enter scattering cedar bears S 20° E & N 20° W.
70.75 Draw drains S 30° E.
80.32 The cor. of secs. 11, 12, 13 & 14.
Land, hilly rolling S.E. slope.
Soil, good brown clay loam 4 to 24 in. deep, fine texture, dry, clay & gravel subsoil.
Timber, cedar; undergrowth, sagebrush.
Aug. 15, 1911.

Aug. 16, 1911. At 8 h 34 m. a. m. l. m. t. I set off 39° 47' on the lat. arc; 13° 59' N on the dec. arc; & determine a meridian with the polar at the cor. of secs. 11, 12, 13 & 14.
Thence I run
N 0° 01' W bet. secs. 11 & 12.
Over rolling hilly land through scattering cedar & sagebrush.
3.80 Draw 40 ft. below cor. drains S 50° E.
Leave scattering: enter heavy cedar bears E & W.
18.75 Spur 100 ft. above draw proj. S 60° E.
24.00 Draw 60 ft. below spur drains S 70° E.
30.00 Low spur 50 ft. above draw proj. S 70° E.
35.00 Leave heavy: enter scattering cedar bears E & W.
39.50 Draw (wash in bottom 7 ft. deep 20 lks. wide, drains S 70° E.)
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 11 on W half; S 12 on E half; from which
A cedar tree 12 in. diam. bears
S 23° E, 1.62 chs. dist. marked
1/4 S 12 B J
A cedar tree 7 in diam. bears
N 74° 30' W, 3.27 chs. dist. marked
1/4 S 11 B J
40.85 Road, Tanner Creek to Mud Spring bears N 70° W & S 70° E.
48.75 Top of spur 120 ft. above draw proj. S 60° E.

Subdivision T12S R4W.

58.00 Draw 90 ft. below spur drains S75°E.
62.00 Spur 80 ft. above draw proj. S75°E.
71.25 Draw 75 ft. below spur drains S60°E.
73.70 Low spur 60 ft. above draw proj. S60°E.
80.00 Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 1, 2, 11 & 12 marked on brass cap
T12S S2 in NW
R4W S1 in NE
S12 in SE
S11 in SW, quadrant; from which
A cedar tree, 12 in. diam. bears N16°E, 77 lks. dist. marked T12S R4W S1 B.T.
A cedar tree, 14 in. diam. bears S24°E, 1.39 chs. dist. marked T12S R4W S12 B.T.
A cedar tree 12 in. diam. bears S12°W, 64 lks. dist. marked T12S R4W S11 B.T.
A cedar tree, 12 in. diam. bears N6°30'W, 1.76 chs. dist. marked T12S R4W S2 B.T.
Land, rolling & hilly S.E. slope.
Soil, good brown clay loam, 6 to 20 in. deep, fine texture, dry, clay subsoil.
Timber, cedar; undergrowth, sagebrush.

East on random line bet. secs. 1 & 12.
40.00 Set temp. 1/4 sec. cor.
80.30 Intersect E. bdy. of Tp. 4.54 chs. S of cor. of secs. 1, 6, 7 & 12. Heretofore described
Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 1 & 12 marked on brass cap
T12S on N half
R3W S6 S7 on E half
S1 in NW
S12 in SW, quadrant; from which
A cedar tree, 10 in. diam. bears

Subdivision T 12 S R 4 W

S 60° 30' W, 1.30 chs. dist. marked
T12SR4WS12BJ
A cedar tree, 14 in. diam. bears
N 16° 40' W, 6.04 chs. dist. marked
T12SR4WS1BJ
I destroy all marks on cor. of secs. 1, 6, 7 &
12 that pertain to secs. 6 & 7.
Aug 16, 1911. At this cor. I set off 13° 56' N on
the decl. arc; & at 12 h 04 min. l. m. t. observe
the sun on the meridian, the resulting
lat. is 39° 48' N.
Thence I run
West on true line bet. secs. 1 & 12.
Over rolling hilly land through scat-
tering cedar timber & sagebrush, ascend.
6.30 Leave scattering; enter heavy cedar timber
bears N 40° W & S 40° E.
23.25 Top of spur 300 ft. above cor. proj. S 45° E.
36.25 Top of yellow clay banks bears N 40° W
& S 40° E.
38.00 Foot of yellow clay banks, 75 ft. deep
bears N 40° W & S 40° E.
40.15 Set an iron post 3 ft. long, 1 in. diam. 26
in. in ground for 1/4 sec. cor. marked on brass
cap 1/4 S1 on N half; S12 on S half; from which
A cedar tree, 14 in. diam. bears
N 69° W, 76 lks. dist. marked
1/4 S 1 B J
A cedar tree, 11 in. diam. bears
S 58° E, 65 lks. dist. marked
1/4 S12 B J
41.30 Leave heavy cedar bears N 20° W & S 20° E.
56.30 Enter heavy cedar bears N 40° W & S 40° E.
64.25 Leave same bears N 40° W & S 40° E.
67.75 Bottom of draw drains S 50° E.
75.25 Enter scattering cedar bears N 45° W & S 45° E.
80.30 The cor. of secs. 1, 2, 11 & 12.
Land rolling & hilly S E slope.
Soil, good clay loam 10 to 20 in. deep, fine
texture, dry, clay subsoil.

Subdivision T 12 S R 4 W.

Timber, cedar; undergrowth, sagebrush

Aug 16, 1911. At 2 h 34 m. p. m. l. m. t. I set off 39° 48' on the lat. arc; 13° 54' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 1, 2, 11 & 12.
Thence I run
N 0° 01' W on random line bet. secs. 1 & 2.
40.00 Set temp. 1/4 sec. cor.
85.70 Intersect N. bdy. of Tp, 10 lks. W of cor. of secs. 1, 2, 35 & 36 before described.
Thence I run
S 0° 03' W on true line bet. secs. 1 & 2.
Over rolling land through heavy cedar.
7.30 Spur 75 ft. above cor. proj. S 80° E.
19.00 Draw 90 ft. below spur (wash in bottom 6 ft. deep 50 lks. wide) drains S 80° E.
33.00 Spur 125 ft. above draw proj. S 45° E.
43.00 Draw 110 ft. below spur drains S 45° E.
45.70 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 2 on W half; S 1 on E half; from which
A cedar tree 10 in. diam. bears
N 65° E 1.14 chs. dist. marked
1/4 S 1 B T
A cedar tree 14 in. diam. bears
S 1° W, 1.27 chs. dist. marked
1/4 S 2 B T
54.75 Low spur 70 ft. above cor. proj. S 30° E.
60.50 Draw 90 ft. below spur drains S 30° E.
70.00 Leave heavy; enter scattering cedar bears N 40° W & S 40° E.
71.70 Top of yellow banks bears E & W.
75.70 Foot of same 75 ft. deep bears E & W.
81.00 Draw 125 ft. below top of yellow banks drains S 45° E.
85.70 The cor. of secs. 1, 2, 11 & 12.
Land, rolling & hilly. SE slope.
Soil, good clay loam 3 to 20 in. deep, fine texture, dry, clay & gravel subsoil

Subdivision T12S R4W

Timber cedar; undergrowth, sagebrush.
Aug. 16, 1911.

Aug. 17, 1911. At 8h 04m. a. m. l. m. t. I set off 39°43' on the lat. arc; 13°40' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 2, 3, 34 & 35 on S bdy of Tp. ~~Thereto fore described~~.
Thence I run
N 0°01' W bet. secs. 34 & 35
Over rolling land through white sage, ascend gently.
From this cor. Mile Post 27 M Nephi bears N 27° W 13.37 chs. dist, is a lime stone 12x10x8 in. above ground marked 27 M Nephi on N face.

10.65 Road, Nephi to Cherry Creek bears N 60° W & S 60° E.

26.00 Enter scattering cedar bears S 80° W & N 80° E.

34.00 Leave white sage; enter sagebrush bears N 80° W & S 80° E.

40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 34 on W half; S 35 on E half; from which
A cedar tree 8 in. diam. bears
S 61°30' E, 2.15 chs. dist. marked
1/4 S 35 B T
A cedar tree 14 in. diam. bears
S 66° W, 2.79 chs. dist. marked
1/4 S 34 B T

61.00 Enter thick scrubby cedar bears E & W.

76.00 Low spur 200 ft. above sec. cor. proj. S 45° W.

80.00 Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 26, 27, 34 & 35 marked on brass cap
T12 S S27 in NW
R4W S26 in NE
S35 in SE
S34 in SW, quadrant; from which
A cedar tree 12 in. diam. bears
N 64° E, 59 lks. dist. marked

Subdivision T12S R4W

T12S R4W S26 B J
A cedar tree 8 in. diam. bears
S50°E, 64 lks. dist. marked
T12S R4W S35 B J
A cedar tree, 16 in. diam. bears
S49°W, 38 lks. dist. marked
T12S R4W S34 B J
A cedar tree 7 in. diam. bears
N68°W, 67 lks. dist. marked
T12S R4W S27 B J.
S76.00 chs. gently rolling bench land S slope
Soil, good brown sandy loam 6 to 30 in.
deep, medium texture, dry, clay subsoil.
N4.00 chs. gravelly & hilly.
Timber, cedar; undergrowth, sagebrush.

East on random line bet. secs. 26 & 35.
40.00 Set temp. 1/4 sec. cor.
80.40 Intersect N & S line 26 lks. S of cor. of secs.
25, 26, 35 & 36.
Thence I run
S89°49' W on true line bet. secs. 26 & 35
Over stony rolling land, S slope, along
foothills, through cedar timber and
sagebrush.
4.40 Spur 75 ft. above cor. proj. S10°W.
6.65 Draw 100 ft. below spur drains S10°W.
27.00 Spur 150 ft. above draw proj. S20°E.
31.40 Draw 75 ft. below spur drains S20°E.
34.40 Spur 85 ft. above draw proj. S20°E.
37.30 Draw 40 ft. below spur drains S20°E.
39.50 Spur 30 ft. above draw proj. S20°E.
40.20 Set an iron post 3 ft. long, 1 in. diam. 26 in.
in ground for 1/4 sec. cor. marked on brass cap.
1/4 S26 on N half; S35 on S half; from which
A cedar tree, 10 in. diam. bears
N4°W, 32 lks. dist. marked
1/4 S26 B J
A cedar tree, 16 in. diam. bears
S21°E, 23 lks. dist. marked 1/4 S35 B J

Subdivision T12S R4W

43.90	Draw 75 ft. below spur drains S 25° E.
52.40	Spur 100 ft. above draw proj. S.
59.50	Draw 75 ft. below spur drains S
76.50	Spur 65 ft. above draw proj. S. 10° W.
80.40	The cor. of secs. 26, 27, 34 & 35.
	Land, rolling foothills, S slope.
	Soil; gravelly, coarse texture, dry, gravel subsoil.
	Timber, cedar; undergrowth; sagebrush.
	Aug. 17, 1911. At this cor. I set off 18° 37' N on the decl. arc; and at 12 h 04 m. p.m. l. m. t observe the sun on the meridian, the resulting lat. is 39° 44' N.
	N 0° 01' W bet. secs. 26 & 27.
	Over rolling stony foothills through thick scrubby cedar.
4.85	Small draw 50 ft. below cor. drains S 20° W
	Begin abrupt ascent; leave cedar, E & W.
17.00	Top of spur, 250 ft. high proj. W.
25.00	Foot of abrupt descent; thence gentle descent bears E & W.
27.50	Draw 150 ft. below spur drains S 80° W, ascend.
39.00	Enter scattering cedar bears E & W.
39.75	Top of Jericho Ridge 350 ft. above draw bears N 80° E & S 80° W.
40.00	Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 27 on W half; S 26 on E half; from which
	A cedar tree, 8 in. diam. bears N 58° E 75 lks. dist. marked, 1/4 S 26 B T
	A cedar tree 10 in. diam. bears S 20° W 50 lks. dist. marked 1/4 S 27 B T.
57.75	Leave cedar; enter thick sagebrush bears N 60° W & S 60° E.
63.00	Draw 225 ft. below ridge drains N 30° W.
76.50	Point of spur 100 ft. above draw proj. W.
	Leave sage; enter thick scrubby cedar bears N 50° W & S 50° E.

80.00 Set an iron post 3 ft. long, 2 in. diam. 24 in ground for cor. of secs. 22, 23, 26 & 27 marked on brass cap
T12S S22 on NW
R4W S23 in NE
S26 in SE
S27 in SW, quadrant; from which
A cedar tree, 6 in. diam. bears
N 41° E, 77 lks. dist. marked
T12S R4W S23 BT
A cedar tree 8 in. diam. bears
S 41° E, 40 lks. dist. marked
T12S R4W S26 BT
A cedar tree 4 in. diam. bears
S 63° W, 49 lks. dist. marked
T12S R4W S27 BT
A cedar tree, 12 in. diam. bears
N 28° W, 77 lks. dist. marked
T12S R4W S22 BT
Land, broken & hilly.
Soil, stony & gravelly, dry.
Timber, cedar; undergrowth, sagebrush.

N 89° 49' E on random line bet. secs. 23 & 26.
40.00 Set temp. 1/4 sec. cor.
80.40 Intersect N & S line 7 lks. S of cor. of secs. 23, 24, 25 & 26.
Thence I run
S 89° 46' W on true line bet. secs. 23 & 26.
Over stony land, descend.
4.00 Foot of descent: leave stony land: enter clay land & sagebrush bears N & S.
16.00 Small wash 2 ft. deep 5 lks. wide drains N 20° W.
40.20 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S23 on N half; S26 on S half; from which
A cedar tree 6 in. diam. bears
N 8° 30' W, 98 lks. dist. marked
1/4 S23 BT

Subdivision T 12 S R 4 W

A cedar tree 8 in. diam. bears S 69° 30' W, 4.70 chs. dist. marked 1/4 S 26 B J.

41.00 Leave clay; enter stony soil bears N & S ascend.

41.50 Leave sagebrush; enter thick scrubby cedar bears N 40° E & S 40° W.

72.00 Top of spur 150 ft. high proj. N 20° E.

80.40 The cor. of secs. 22, 23, 26 & 27.

E 5.00 chs. & W. 39.40 chs. broken & hilly, N slope.

Soil, stony & gravelly, dry.

Soil on balance of mile, good brown clay loam, 6 to 20 in. deep, fine texture dry, clay & gravel subsoil.

Timber, cedar; undergrowth, sagebrush.

Aug 17, 1911. At 4 h 24 m p. m. l. m. t. I set off 39° 45' on the lat. arc; 13° 34' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 22, 23, 26 & 27.

Thence I run

N 0° 01' W bet. secs. 22 & 23.

Over rolling stony land through thick scrubby cedar.

10.00 Leave stony; enter clay soil bears N 40° E & S 40° W.

12.00 Leave thick cedar; enter sagebrush bears N 60° E & S 60° W.

24.00 Willow drains S & N.

40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brasscap 1/4 S 22 on W half; S 23 on E half; from which

A lone cedar 10 in. diam. bears N 40° W, 92 lks. dist. marked 1/4 S 22 B J

Dig pits 18 x 18 x 12 in. N & S of post 3 ft. dist. & raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W of cor.

46.90 Road, Silver City to Cherry Creek bears N 75° E & S 75° W.

60.00 Enter scattering cedar, bears E & W.

Subdivision T12S R4W.

80.00 Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 14, 15, 22 & 23 marked on brass cap.
T12S S15 in NW
R4W S14 in NE
S 23 in SE
S 22 in SW, quadrant; from which
A cedar tree, 6 in. diam. bears
N 18° E, 1.19 chs. dist. marked
T12S R4W S14 B T
A cedar tree, 16 in. diam. bears
S 77° 30' E, 6.56 chs. dist. marked
T12S R4W S23 B T
A cedar tree, 10 in. diam. bears
S 8° W, 2.90 chs. dist. marked
T12S R4W S22 B T
A cedar tree, 6 in. diam. bears
N 15° W, 1.19 chs. dist. marked
T12S R4W S15 B T.
Land, rolling & hilly, N.E. slope.
S 10.00 chs. soil; stony & gravelly.
N 70.00 chs. good brown clay loam, 7 to 24 in. deep, fine texture, dry, clay subsoil.
Timber, cedar; undergrowth, sagebrush.
Aug. 17, 1911.

Aug. 18, 1911. At 8 h. 04 m. a. m. l. m. t. I set off 39° 46' on the lat. arc; 13° 22' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 14, 15, 22 & 23.
Thence I run,
N 89° 46' E on random line bet. secs. 14 & 23.
40.00 Set temp. 1/4 sec. cor.
80.22 Intersect N & S line 21 lks. N of cor. of secs. 13, 14, 23 & 24.
Thence I run
S 89° 55' W on true line bet. secs. 14 & 23.
Over rolling stony land, descend through thick cedar timber along N. slope of small ridge.

Subdivision T12 S R 4 W.

20.50 Leave heavy; enter scattering cedar, N & S.
22.25 Leave stony; enter clay soil bears N 45° E & S 45° W
22.50 Foot of hills, thence gently rolling land bears N & S.
29.25 Wash 5 ft. deep, 25 lks. wide, drains S 30° E
39.70 Enter heavy cedar bears N 20° W & S 20° E.
40.11 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 14 on N half; S 23 on S half; from which
A cedar tree 8 in. diam. bears N 64° E, 16 lks. dist. marked 1/4 S 14 B T
A cedar tree 16 in. diam. bears S 60° W, 21 lks. dist. marked 1/4 S 23 B T.
52.00 Leave heavy cedar, bears N & S.
62.75 Enter heavy cedar bears N 20° W & S 20° E.
74.25 Leave same bears N 20° W & S 20° E.
80.22 The cor. of secs. 14, 15, 22 & 23.
Land, rolling bench, S E slope.
Soil on E 22.25 chs. stony & gravelly W 58.00 chs. good brown clay loam 6 to 25 in. deep, medium texture, dry, clay subsoil.
Timber, cedar; undergrowth, sagebrush.

N 0°01' W bet. secs. 14 & 15.
Over gently rolling land through scattering cedar timber & sagebrush.
5.00 Leave cedar bears N 10° W & S 10° E.
18.00 Enter heavy cedar bears N 20° W & S 20° E.
22.00 Low spur 75 ft. above sec. cor proj S 40° E.
27.00 Draw 50 ft. below spur drains S 40° E.
32.00 Low spur 80 ft. above draw proj. S 30° E.
33.00 Leave heavy; enter scattering cedar bears N 10° W & S 10° E.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 15 on W half; S 14 on E half; from which
A cedar tree, 6 in. diam. bears S 52° E 1.29 chs. dist. marked, 1/4 S 14 B T

A cedar tree 7 in. diam. bears
S66°W, 77 lks. dist. marked
1/4 S15 B J
43.50 Draw 60 ft. below spur, drains S40°E.
69.00 Spur 100 ft. above draw proj. S45°E.
80.00 Set an iron post 3 ft. long, 2 in. diam. 24
in. in ground for cor. of secs. 10, 11, 14 & 15
marked on brass cap
T12S S10 in NW
R4W S11 in NE
S14 in SE
S15 in SW, quadrant; from which
A cedar tree 6 in. diam. bears
N59°30'E, 4.82 chs. dist. marked
T12S R4W S11 B J
A cedar tree 5 in. diam. bears
S56°30'E, 1.21 chs. dist. marked
T12S R4W S14 B J
A cedar tree, 10 in. diam. bears
S44°30'W, 1.19 chs. dist. marked
T12S R4W S15 B J
A cedar tree 12 in. diam. bears
N67°W, 1.83 chs. dist. marked
T12S R4W S10 B J.
Land rolling, S.E slope.
Soil, good brown clay loam, 6 to 20
in. deep, fine texture, dry, clay subsoil.
Timber, cedar, undergrowth, sagebrush.

N89°55'E on random line bet. secs. 11 & 14,
40.00 Set temp. 1/4 sec. cor.
80.20 Intersect N & S line 7 lks. N. of cor. of secs.
11, 12, 13 & 14.
Aug. 8, 1911. At this cor. I set off 13°18' N on the
decl. arc; and at 12 h. 04 p.m. l.m.t. observe
the sun on the meridian, the resulting
lat. is 39°47' N.
Thence I run
S89°58'W on true line bet. secs. 11 & 14.
Over rolling land through scattering

Subdivision T12S R4W

cedar timber & sagebrush
8.25 Spur 70 ft. above cor. proj. S20° E.
19.00 Draw 75 ft. below spur drains S25° E.
29.50 Spur 100 ft. above draw proj. S15° E.
35.00 Draw 80 ft. below spur drains S20° E.
40.10 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S11 on N half; S14 on S half; from which
A cedar tree 8 in. diam. bears S52° W, 25 lks. dist. marked 1/4 S14 B T
A cedar tree 11 in. diam. bears N80° W, 65 lks. dist. marked 1/4 S11 B T.
43.00 Spur 90 ft. above draw proj. S10° E
Leave cedar, bears N & S.
53.50 Draw 75 ft. below spur drains S.
76.00 Enter scattering cedar bears N & S.
80.20 The cor. of secs. 10, 11, 14 & 15.
Land, rolling, 5% slope.
Soil, good brown clay loam 10 to 24 in. deep, fine texture, dry, clay subsoil.
Timber, cedar; undergrowth, sagebrush.

Aug 18, 1911. At 2 h 04 m. p.m. l.m.t. I set off 39° 47' on the lat arc; 13° 16' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 10, 11, 14 & 15.
Thence I run
N 0° 01' W bet. secs. 10 & 11.
Over rolling land through scattering cedar & sagebrush.
2.00 Head of small draw drains S80° E.
34.00 Spur 100 ft. above cor. proj. S45° E.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S10 on W half; S11 on E half; from which
A cedar tree, 6 in. diam. bears S60° 15' E, 1.17 chs. dist. marked 1/4 S11 B T

Subdivision T12 S R 4 W.

A cedar tree 16 in. diam. bears
S 79° W, 30 lks. dist. marked
1/4 S 10 B J
42.00 Head of draw 75 ft. below spur draws S 45° E
54.00 Low ridge 110 ft. above draw bears S 40° E
& N 40° W.
69.00 Road, Mud Spring to Cherry Creek bears
N 20° E & S 20° W.
80.00 Set an iron post 3 ft. long 2 in. diam.
24 in. in ground for cor. of secs. 2, 3, 10 & 11
marked on brass cap
T12S S3 in NW
R4W S2 in NE
S11 in SE
S10 in SW, quadrant; from which
A cedar tree 6 in. diam. bears
N 15° E, 70 lks. dist. marked
T12 S R4W S 2 B J
A cedar tree, 10 in. diam. bears
S 41° 30' E, 66 lks. dist. marked
T12 S R4W S 11 B J
A cedar tree, 10 in. diam. bears
S 68° W, 2.50 chs. dist. marked
T12 S R4W S 10 B J
A cedar tree, 6 in. diam. bears
N 62° 30' W, 2.52 chs. dist. marked
T12 S R4W S 3 B J
Land, rolling, SW slope.
Soil, good brown clay loam, 14 to 20 in.
deep, fine texture, dry, clay subsoil.
Timber, cedar; undergrowth, sagebrush.

N 89° 58' E on random line bet. secs. 2 & 11.
40.00 Set temp. 1/4 sec. cor.
80.27 Intersect NS line 12 lks. S of cor. of secs.
1, 2, 11 & 12.
Thence I run
S 89° 53 W on true line bet. secs. 2 & 11.
Over rolling hilly land through cedar
& sagebrush, ascend.

Subdivision T 12 S R 4 W.

8.00	Spur 70 ft. above cor. proj. N 40° E.
9.75	Draw 50 ft. below spur drains N 40° E.
19.75	Spur 75 ft. above draw proj. N. 40° E.
23.25	Draw 65 ft. below spur drains N. 35° E.
27.00	Spur 85 ft. above draw proj. N 30° E.
29.00	Draw 50 ft. below spur drains N 30° E.
40.13½	Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for ¼ sec. cor. marked on brass cap ¼ S 2 on N half; S 11 on S half; from which A cedar tree, 16 in. diam. bears N 2° E, 33 lks. dist. marked ¼ S 2 B T A cedar tree 16 in. diam. bears S 40° E, 36 lks. dist. marked ¼ S 11 B T
49.00	Top of spur 120 ft. above draw proj. S 80° E.
51.50	Road, Mud Spring to Tanner Creek bears N 60° W & S 60° E.
52.50	N.E. cor. of John G. Baylis house bears N 6° 45' W, 6.31 chs. W gable of John G. Baylis cellar bears N 11° 20' W, 5.90 chs.
60.00	Draw 125 ft. below spur drains S 70° E.
64.40	Road, Mud Spring to Silver City bears N 40° E & S 40° W.
69.00	Mud Spring (a very small spring of fresh water) bears S 1.93 chs.
69.50	Corral bears S 36 lks.
80.27	The cor. of secs. 2, 3, 10 & 11. Land, rolling hilly, S.E. slope. Ridges, light-poor gravelly soil, gravel subsoil; valleys, good brown clay loam, clay subsoil. Timber, cedar; undergrowth, sagebrush. Aug. 18, 1911.

Aug. 21, 1911. At 4 h 03 m. p. m. l. m. t. I set off 39° 48' on the lat. arc; 12° 17' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 2, 3, 10 & 11.

Subdivision T12S R4W

Knowing from retracements a C.C. will be necessary on N. bdy.
Iron
N 0° 01' W on true line bet. secs 2 & 3.
Over rolling land through scattering cedar timber & sagebrush.
18.00 Draw 80 ft. below cor. drains S20°E.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for ¼ sec. cor. marked on brass cap ¼ S3 on W half; S2 on E half; from which
A cedar tree, 6 in. diam. bears
N 89° E, 36 lks. dist. marked
¼ S2 B T
A cedar tree 7 in. diam. bears
S 63° 20' W, 78 lks. dist. marked
¼ S3 B T
45.00 Same draw drains S10°W.
86.62 Intersect N bdy. of Tp. 1.30 chs. S 89° 27' E. of cor. of secs. 2, 3, 34 & 35. heretofore described
Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for closing cor. of secs. 2 & 3 marked on brass cap
CC T11S R4W S34 S35 in N half
S2 in SE
S3 in SW, quadrant; from which
A cedar tree, 8 in. diam. bears
S45°E, 1.06 chs. dist. marked
T12S R4W S2 B T
A cedar tree, 10 in. diam. bears
S 39° 30' W, 1.24 chs. dist. marked
T12S R4W S3 B T
I obliterate all marks on cor. of secs. 2, 3, 34 & 35 that pertain to secs. 2 & 3.
Land rolling SW slope.
Soil, good brown clay loam 14 to 30 in. deep fine texture, dry, clay subsoil.
Timber, cedar, undergrowth, sagebrush.
Aug. 21, 1911

Subdivision T12SR4W

Aug. 19, 1911. At 7h 34m a.m. l.m.t. I set off 39°43' on the lat. arc; 13°03' N on the decl arc; & determine a meridian with the solar at the cor. of secs. 3, 4, 33 & 34 on S bdy. of Tp. Pentofore described.
Thence I run
N 0°02' W bet. secs. 33 & 34.
Over rolling land through sagebrush.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S33 on W half; S34 on E half; dig pits 18X18X12 in. N & S of post, 3 ft. dist. & raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W of cor.
62.10 Road, Nephi to Cherry Creek bears N45°W & S45°E.
80.00 Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 27, 28, 33 & 34, marked on brass cap
T12SS28 in NW
R4WS27 in NE
S34 in SE
S33 in SW, quadrant; from which
A lone cedar tree, 10 in. diam. bears
S40°30' W, 3.00 chs. dist. marked
T12SR4WS33BT
Dig pits 18X18X12 in. in each sec. 5 1/2 ft. dist. & raise a mound of earth 4 ft. base 2 ft. high, W of cor.
Land, rolling, SW slope.
Soil, good brown sandy loam, 10 to 24 in. deep, medium texture, dry, clay subsoil.
No timber; undergrowth, sagebrush.

East on random line bet. secs. 27 & 34.
40.00 Set temp. 1/4 sec. cor.
80.24 Intersect N & S line 5 lks. S of cor. of secs. 26, 27, 34 & 35
Thence I run
S 89°58' W on true line bet. secs. 27 & 34.
Over rolling land along foothills, through

Subdivision T12 S R 4 W

	thick scrubby cedar & sagebrush.
3.00	Small draw drains S15°W: leave foothills.
7.00	Leave thick: enter scattering cedar bears N10°E & S10°W.
36.00	Leave scattering cedar bears N40°W & S40°E.
40.12	Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S27 on N half; S34 on S half; from which A cedar tree, 6 in. diam. bears N47°E, 5.08 chs. dist. marked 1/4 S27 B T A cedar tree 12 in. diam. bears S85°E, 3.38 chs. dist. marked 1/4 S34 B T
74.00	Low spur proj. S20°W.
80.24	The cor. of secs. 27, 28, 33 & 34.
	Land, rolling; SW slope.
	Soil, good brown sandy loam, 5 to 22 in. deep, medium texture, dry, clay subsoil.
	Timber, cedar; undergrowth, sagebrush.
	N0°02'W bet. secs. 27 & 28.
	Over rolling land through sagebrush.
9.00	Point of low spur proj. S40°W.
35.00	Mouth of draw 75 ft. below spur drains S45°W.
36.00	Enter scattering cedar bears N60°W & S60°E.
40.00	Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S28 on W half; S27 on E half; from which A cedar tree 10 in. diam. bears S38°30'E, 6.70 chs. dist. marked 1/4 S27 B T A cedar tree, 10 in. diam. bears N24°W, 3.70 chs. dist. marked 1/4 S28 B T
47.00	Top of spur 110 ft. above draw proj. S40°W.
53.00	Leave scattering cedar bears N45°E & S45°W.
60.00	Enter small valley bears N20°E & S20°W.
67.50	Jericho Wash 12 ft. deep, 60 lks. wide

Subdivision T12S R4W.

drains S30°W.

80.00 Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 21, 22, 27 & 28 marked on brass cap
T12S S21 in NW
R4W S22 in NE
S27 in SE
S28 in SW, quadrant; dig pits 18x18x12 in. in each sec. 5½ ft. dist. & raise a mound of earth 4 ft. base, 2 ft. high, W of cor.
Land, rolling; SW slope.
Soil, good sandy loam 5 in. to 12 ft. deep fine texture, dry, clay subsoil.
Timber, cedar; undergrowth sagebrush.
Aug. 19, 1911. At this cor. I set off 12°59' N on the decl. arc; and at 12 h 04 m. p.m. l. m. t. observe the sun on the meridian the resulting lat. is 39° 45' N.

N 89°58' E on random line bet. secs. 22 & 27
40.00 Set temp. ¼ sec. cor.
80.30 Intersect N & S line 33 lks. N of cor. of secs. 22, 23, 26 & 27.
Thence I run
N 89° 48' W on true line bet. secs. 22 & 27.
Over rolling land through thick cedar timber, descend.
2.40 Leave cedar: enter sagebrush bears N 40° W & S 40° E.
7.00 Mouth of draw drains N 20° W.
9.25 Leave sagebrush; enter cedar timber bears N 20° W & S 20° E.
21.50 Begin abrupt stony ascent bears N 20° W & S 20° E.
33.25 Top of ridge 400 ft. high bears N 10° W & S 10° E
40.15 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for ¼ sec. cor. marked on brass cap ¼ S 22 on N half; S 27 on S half; from which
A cedar tree 10 in. diam. bears
N 49° E, 56 lks. dist, marked ¼ S 22 B.T.

Subdivision T 12 S R 4 W

A cedar tree 10 in. diam. bears S 63° E. 16 lks. dist. marked 1/4 S 27 B J

65.00 Leave cedars; enter sagebrush bears N 10° E & S 10° W.

68.00 Enter valley 420 ft. below ridge bears N 20° E & S 20° W.

73.50 Jericho Wash 12 ft. deep, 60 lks. wide drains S 30° W.

80.30 The cor. of secs. 21, 22, 27 & 28.

E 68.00 chs. broken & hilly.
Ridges & slopes, very stony & gravelly; valleys, good brown clay loam, gravel subsoil.
W 12.30 chs. level valley land & slope.
Soil; good brown sandy loam 1 to 10 ft. deep, fine texture, dry, clay subsoil.
Timber, cedar; undergrowth, sagebrush.

Aug. 19, 1911. At 2 h 04 m. p. m. l. m. t. I set off 39° 45' on the lat. arc; 12° 57' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 21, 22, 27 & 28.
Thence I run
N 0° 02' W bet. secs. 21 & 22.
Over valley land through sagebrush.

1.00 Wash 6 ft. deep 50 lks. wide drains S 25° W

23.00 Leave valley; enter rolling land, bears N 20° E & S 20° W, ascend

29.00 Enter scattering cedar bears E & W.

35.00 Low sandy ridge 120 ft. high bears N 20° E & S 20° W.

40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 21 on W half; S 22 on E half; from which
A cedar tree 10 in. diam. bears S 18° 30' E, 45 lks. dist. marked 1/4 S 22 B J
A cedar tree 5 in. diam. bears S 22° W, 45 lks. dist. marked 1/4 S 21 B J

Subdivision T 12 S R 4 W

40.50 Leave scattering cedar bears N 10° E & S 10° W.
43.50 Road Silver City to Cherry Creek bears E & W.
54.75 Road Mud Springs to Cherry Creek bears N 70° E & S 70° W.
75.00 Mouth of draw, 75 ft. below ridge, drains S 40° E; enter scattering cedar bears N 80° W & S 80° E.
80.00 Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 15, 16, 21 & 22 marked on brass cap
T 12 S S 16 in NW
R 4 W S 15 in NE
S 22 in SE
S 21 in SW, quadrant; from which
A cedar tree, 20 in. diam. bears N 82° E, 1.78 chs. dist. marked
T 12 S R 4 W S 15 B T
A cedar tree, 16 in. diam. bears S 80° E, 1.94 chs. dist. marked
T 12 S R 4 W S 22 B T
A cedar tree 7 in. diam. bears S 51° 20' W, 6.20 chs. dist. marked
T 12 S R 4 W S 21 B T
A cedar tree 10 in. diam. bears N 17° W, 2.81 chs. dist. marked
T 12 S R 4 W S 16 B T
S 23.00 chs. Valley land
N 57.00 chs, rolling land, SE slope.
Soil, good brown sandy loam 3 to 10 ft. deep, fine texture, dry, clay subsoil.
Timber, cedar; undergrowth, sagebrush.

S 89° 48' E on random line bet. secs. 15 & 22.
40.00 Set temp. 1/4 sec. cor.
80.14 Intersect N & S line 19 lks. S of cor. of secs. 14, 15, 22 & 23.
Thence I run
N 89° 56' W on true line bet. secs. 15 & 22.
Over rolling land through scattering cedar and sagebrush.

Subdivision T 12 S R. 4 W.

8.00	Ridge 120 ft. above cor. bears N 10° W & S 10° E.
12.00	Draw 50 ft. below ridge drains S 10° W.
22.00	Spur 75 ft. above draw proj. S: leave scattering cedar bears N & S.
30.00	Leave rolling land: enter valley 90 ft. below spur bears N & S.
35.40	Jericho Wash 10 ft. deep, 50 lks. wide drains South.
40.07	Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 15 on N half; S 22 on S half; dig pits 18 x 18 x 12 in. E & W of post 3 ft. dist. & raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N of cor.
55.35	Wash 15 ft. deep, 50 lks. wide drains S
66.00	Road, Mud Spring to Cherry Creek bears N 20° E & S 20° W.
68.00	Leave valley: enter rolling land bears N & S.
76.00	Enter scattering cedar bears N 40° W & S 40° E.
80.14	The cor. of secs. 15, 16, 21 & 22.
	Land, rolling & valley, S slope.
	Soil, good brown sandy loam 1 to 12 ft. deep, fine texture, dry, clay subsoil.
	Timber, cedar; undergrowth, sagebrush.
	Aug. 19, 1911.

Aug. 21, 1911. At 7 h 33 m. a.m. l.m.t. I set off 39° 46' on the lat. arc; 12° 24' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 15, 16, 21 & 22.

Thence I run

N 0° 02' W bet. secs. 15 & 16.

Over rolling land, ascend through scattering cedar & sagebrush.

2.00	Enter thick cedar bears N 40° W & S 40° E.
17.00	Spur 150 ft. above cor. proj. S 80° E.
30.00	Leave cedar, bears N 40° W & S 40° E.
40.00	Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 16 on W half; S 15 on E half; from which

Subdivision T12 S R4 W.

A lone cedar tree 16 in. diam. bears N47°E, 9.45 chs. dist. marked 1/4 S15 B J
A lone cedar tree 5 in. diam. bears S20°15'W, 2.19 chs dist. marked 1/4 S16 B J

44.25 Mouth of draw 110 ft. below spur drains S40°E.

56.00 Enter scattering cedar bears N40°W & S40°E.

65.00 Spur 125 ft. above draw proj. S40°E.

80.00 Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 9, 10, 15 & 16 marked on brass cap
T12 S S9 in NW
R4 W S10 in NE
S15 in SE
S16 in SW, quadrant; from which
A cedar tree 4 in. diam. bears N20°30'E, 26 lks. dist. marked T12 S R4 W S10 B J
A cedar tree, 6 in. diam. bears S21°50'E, 72 lks. dist. marked T12 S R4 W S15 B J
A cedar tree 12 in. diam. bears S31°W, 22 lks. dist. marked T12 S R4 W S16 B J
A cedar tree, 10 in. diam. bears N49°45'W, 56 lks. dist. marked T12 S R4 W S9 B J

Land, rolling; S.E. slope.
Soil, good brown sandy loam 6 to 20 in. deep, medium texture, dry, clay and gravel subsoil.
Timber, cedar; undergrowth, sagebrush

S89°56'E on random line bet. secs. 10 & 15

40.00 Set temp. 1/4 sec. cor.

80.12 Intersect N & S line 9 lks. S of cor. of secs. 10, 11, 14 & 15.
Thence I run

Subdivision T12 S R 4 W.

	West on true line bet. secs. 10 & 15.
	Over rolling land through scattering cedar & sagebrush.
3.70	Ridge 60 ft. above cor. bears N 20° W & S 20° E
6.00	Draw 50 ft. below ridge drains S 10° W.
10.00	Spur 40 ft. above draw proj. S 10° W.
19.00	Leave rolling land; enter valley bears N 10° E & S 10° W: leave cedars bears N & S.
25.75	Jericho Wash 2 ft. deep 10 lks. wide drains S 15° W.
26.60	Road, Mud Spring to Cherry Creek bears N 20° E & S 20° W.
40.06	Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 10 on N half; S 15 on S half; dig pits 18 x 18 x 12 in. E & W of post 3 ft. dist. & raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N of cor.
56.00	Low spur 30 ft. above valley proj. S.
59.60	Wash 3 ft. deep 12 lks. wide drains S 15° E.
70.50	Wash 3 ft. deep 18 lks. wide drains S 30° E.
78.00	Leave valley; enter rolling land and scattering cedar bears N & S.
80.12	The cor. of secs. 9, 10, 15 & 16.
	Land, rolling & valley, S slope.
	Soil, good brown clay loam 5 to 20 in. deep, fine texture, dry, clay subsoil.
	Timber, cedar; undergrowth sagebrush.
	N 0° 02' W bet. secs. 9 & 10.
	Over rolling land through scattering cedar & sagebrush.
40.00	Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 9 on W half; S 10 on E half; from which
	A cedar tree 7 in. diam. bears
	N 51° E, 2.3 lks. dist. marked
	1/4 S 10 B T
	A cedar tree 10 in. diam. bears
	N 76° 30' W, 1.02 chs. dist. marked, 1/4 S 9 B. T.

Subdivision T12S R4W.

40.50 Leave rolling; enter mountainous land ascend over stony land through thick cedar bears N60°E & S60°W.
54.00 Spur 325 ft. above 1/4 sec. cor. proj. E.
60.00 Draw 250 ft. below spur drains E. leave mountainous enter rolling land.
70.00 Leave thick; enter scattering cedar bears N40°W & S40°E.
80.00 Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 3, 4, 9 & 10. marked on brass cap
T12S S4 in NW
R4W S3 in NE
S10 in SE
S9 in SW, quadrant; from which:
A cedar tree 6 in. diam. bears N62°E, 1.64 chs. dist. marked T12S R4W S3 B T
A cedar tree 10 in. diam. bears S47°30'E, 3.47 chs. dist. marked T12S R4W S10 B T
A cedar tree 12 in. diam. bears S64°W, 3.27 chs. dist. marked T12S R4W S9 B T
A cedar tree 6 in. diam. bears N56°W, 4.12 chs. dist. marked T12S R4W S4 B T
S40.50 chs. & N20.00 chs. rolling land S.E. slope.
Soil, light sandy loam 4 to 12 in. deep medium texture, dry, clay & gravel subsoil
Remainder of mile, hilly & stony.
Soil, gravelly.
Timber, cedar; undergrowth, sagebrush.
Aug 21, 1911. At this cor. I set off 12°19' N on the decl. arc; and at 12 h 03 m. p.m. l.m.t. observe the sun on the meridian the resulting lat. is 39°48'.

Subdivision T 12 S R 4 W.

East on random line bet. secs. 3 & 10.
40.00 Set temp. 1/4 sec. cor.
80.16 Intersect N. & S. line 3 lks. S of cor. of secs 2, 3, 10 & 11.
Thence I run
S 89° 59' W on true line bet. secs. 3 & 10.
Over rolling land through scattering cedar & sagebrush.
10.00 Ridge 90 ft. above sec. cor. bears N 20° W & S 20° E.
31.50 Jericho Wash 6 ft. deep 1.00 ch. wide drains S 15° E.
40.08 Set an iron post 3 ft. long 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 3 on N half; S 10 on S half; from which
A cedar tree 6 in. diam. bears
N 54° 30' E, 1.80 chs. dist. marked
1/4 S 3 B T
A cedar tree 8 in. diam. bears
S 74° 30' W, 2.91 chs. dist. marked
1/4 S 10 B T
50.00 Spur 75 ft. above wash proj. S 20° E.
54.00 Draw 50 ft. below spur drains S 20° E.
66.50 Spur 100 ft. above draw proj. S 20° E.
80.16 The cor. of secs. 3, 4, 9 & 10.
Land, rolling S.E. slope.
Soil, good sandy loam 4 to 30 in. deep medium texture, dry, clay subsoil.
Timber, cedar; undergrowth, sagebrush.
Aug 21, 1911.

Aug 24, 1911. At 8 h 33 m. a. m. l. m. t. I set off 39° 48' on the lat. arc; 11° 22' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 3, 4, 9 & 10.
Thence I run
N 0° 02' W bet. secs. 3 & 4. on a true line
Over rolling land through scattering cedar & sagebrush.
9.00 Enter thick scrubby cedar bears N 40° W & S 40° E.

Subdivision T12 S R 4 W

35.00 Spur 125 ft. above cor. proj. S 40° E.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 4 on W half; S 3 on E half; from which
A cedar tree 5 in. diam. bears S 65° E, 77 lks. dist. marked 1/4 S 3 B T
A cedar tree, 18 in. diam. bears S 84° W, 30 lks. dist. marked 1/4 S 4 B T.
43.00 Small draw 75 ft. below spur drains S 45° E.
45.00 Low spur, 60 ft. above draw proj. S 75° E.
46.00 Leave thick cedar timber; enter sagebrush bears E & W.
50.65 Jericho Wash 6 ft. deep, 20 lks. wide, drains S 60° E.
56.00 Leave sagebrush; enter thick cedar timber bears E & W.
73.00 Spur 200 ft. above Jericho Wash proj. S 45° E
87.77 Intersect N. bdy. of Tp. 2.54 chs. S 89° 27' E of cor. of secs. 3, 4, 33 & 34 heretofore described
Set an iron post 3 ft. long 2 in. diam. 24 in. in ground for closing cor. of secs. 3 & 4 marked on brass cap
CC T11 S R4 W S 33 S 34 on N half
S 3 in S E
S 4 in S W. quadrant; from which
A cedar tree, 5 in. diam. bears S 54° E, 1.04 chs. dist. marked T12 S R4 W S 3, B T
A cedar tree 5 in. diam. bears S 61° W, 60 lks. dist. marked T12 S R4 W S 4 B T.
I obliterate all marks on cor. of secs. 3, 4, 33 & 34 that pertain to secs. 3 & 4.
Land, rolling hilly S E slope.
Soil, good brown sandy loam, 4 to 24 in. deep, medium texture, dry, clay and gravel subsoil
Timber, cedar.

Subdivision T12SR4W.

Undergrowth, sagebrush.
Aug. 24, 1911.

Aug. 22, 1911. At 7h 57m a.m. l.m.t. I set off 39°43' on the lat. arc; 12°03' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 4, 5, 32 & 33 on the S bdy. of Tp. heretofore described
Thence I run
N 0°03' W bet. secs. 32 & 33.
Over gently rolling land through white sage.

5.00 Leave white sage; enter sagebrush bears N 60° W & S 60° E.

5.50 Ditch for flood water 2 ft. deep 8 lks. wide trains S 50° E.

14.45 Jericho Wash 6 ft. deep, 10 lks. wide trains S 30° W.

16.00 Leave sagebrush; enter white sage bears N 20° E, & S 20° W.

35.00 Small wash 2 ft. deep, 6 lks. wide trains S 30° W.

40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in in ground for 1/4 sec. cor. marked on brass cap 1/4 S 32 on W half; S 33 on E half; dig pits 18 X 18 X 12 in. N & S of post, 3 ft. dist; & raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W of cor.

42.00 Leave white sage; enter sagebrush bears N 20° E & S 20° W.

63.00 Small wash 2 ft. deep, 7 lks. wide trains S 30° W.

80.00 Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 28, 29, 32 & 33 marked on brass cap
T12S S29 in NW
R4W S28 in NE
S33 in SE
S32 in SW, quadrant; from which
One lone cedar tree, 8 in. diam. bears
N 89° 30' W, 3.61 chs. dist. marked

Subdivision T12S R4W

T12S R4W S29 B J
Dig pits 18x18x12 in. in each sec. 5½ ft. dist. & raise a mound of earth 4 ft. base 2 ft. high, W of cor.
Land, gently rolling, SW slope.
Soil, good brown sandy loam 4 to 30 in. deep, fine texture, dry, clay subsoil.
No timber; undergrowth, sagebrush.

East on random line bet. secs. 28 & 33.
40.00 Set temp. 1/4 sec. cor.
79.80 Intersect N & S line 14 lks. N of cor. of secs. 27, 28, 33 & 34.
Thence I run
N 89°54' W on true line bet. secs. 28 & 33
Over gently rolling land SW slope through sagebrush.
12.90 Road, Nephi to Cherry Creek bears N 50° W & S 50° E.
24.00 Leave sagebrush bears N 10° E & S 10° W.
25.00 Jericho Wash 16 ft. deep 30 lks. wide drains S 40° W.
39.90 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 28 on N half; S 33 on S half; dig pits 18X18X12 in. E & W of post 3 ft. dist; & raise a mound of earth 3½ ft. base, 1½ ft. high N of cor.
45.00 Enter sagebrush bears N & S.
53.00 Wash 3 ft. deep, 10 lks. wide drains S.
67.00 Spur 70 ft. high proj. S 40° E.
79.80 The cor. of secs. 28, 29, 32 & 33.
Land, gently rolling SW slope.
Soil, good brown clay loam, 12 to 16 ins. deep fine texture, dry, clay subsoil.
No timber; undergrowth, sagebrush.

N 0°03' W bet. secs. 28 & 29.
Over gently rolling land through sagebrush.

Subdivision T12 S R4W.

20.00 Low spur 75 ft. above cor. proj. S30°E.
38.00 Enter scattering cedar bears E & W.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S29 on W half; S28 on E half; from which
A cedar tree 4 in. diam. bears N 6°30' E, 2.30 chs. dist. marked 1/4 S28 B T
A cedar tree 3 in. diam. bears N 42° W, 1.30 chs. dist. marked 1/4 S29 B T
50.00 Enter thick cedar bears N 60° E & S 60° W
53.80 Road, Nephi to Cherry Creek bears N 70° W & S 70° E.
80.00 Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 20, 21, 28 & 29 marked on brass cap
T12 S S20 in NW
R4W S21 in NE
S28 in SE
S29 in SW, quadrant; from which
A cedar tree 6 in. diam. bears N 38° E, 35 lks. dist. marked T12 S R4W S21 B T
A cedar tree 4 in. diam. bears S 63° E, 22 lks. dist. marked T12 S R4W S28 B T
A cedar tree 20 in. diam. bears S 64° W, 1.60 chs. dist. marked T12 S R4W S29 B T
A cedar tree, 6 in. diam. bears N 26° W, 77 lks. dist. marked T12 S R4W S20 B T
Land, gently rolling SW slope.
Soil, good brown sandy loam, 10 to 30 in. deep, medium texture, dry, clay subsoil.
Timber, cedar; undergrowth, sagebrush.
Aug. 22, 1911. At this cor. I set off 11°59' N on the decl. arc; & at 12 h 03 m. l. m. t.

Subdivision T12S R4W

observe the sun on the meridian, the resulting lat. is 39°45'.

S 89°54' E on random line bet. secs. 21 & 28.
40.00 Set temp. 1/4 sec. cor.
79.76 Intersect N & S line 19 lks. S. of cor. of secs. 21, 22, 27 & 28.
Thence I run
S 89°58' W on true line bet. secs. 21 & 28.
Over valley land through sagebrush.
0.80 Wash 6 ft. deep, 40 lks. wide drains S 40° W.
10.00 Leave valley; enter rolling land bears N 20° E & S 20° W, ascend.
17.00 Enter scattering cedar bears N & S.
35.00 Top of spur 100 ft. above cor. proj. S 15° W.
Leave cedar, bears N 15° E & S 15° W.
39.88 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 21 on N half; S 28 on S half; dig pits 18 x 18 x 12 in. E & W of post, 3 ft. dist; & raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N of cor.
44.00 Draw 75 ft. below spur drains S.
47.00 Enter thick cedar bears N 15° E & S 15° W.
50.50 Spur 90 ft. above draw proj. S.
52.00 Leave thick cedar bears N 15° E & S 15° W.
57.00 Draw 80 ft. below spur drains S 15° E.
62.00 Enter heavy cedar bears N 15° E & S 15° W.
65.00 Top of spur 75 ft. above draw proj. S 15° E.
74.00 Draw 60 ft. below spur drains S 10° E.
79.76 The cor. of secs. 20, 21, 28 & 29.
E 10.00 chs. valley land SW slope.
W 69.76 chs. rolling land South slope.
Soil, good brown sandy loam 12 to 24 in. deep, medium texture, dry, clay subsoil.
Timber, cedar; undergrowth, sagebrush.

Aug 22, 1911. At 3 h 03 m. p. m. l. m. t. I set off 39°45' on the lat. arc; 11°57' N on the decl. arc; and determine a meridian with the

Subdivision T12S R4W

	solar at the cor. of secs. 20, 21, 28 & 29.
	Thence I run
	N0°03'W bet. secs. 20 & 21.
	Over rolling hilly land through heavy cedar & sagebrush.
10.00	Leave heavy cedar bears N15°W & S15°E.
14.00	Draw 50 ft. below cor. drains S20°E.
18.00	Enter heavy cedar bears N10°E & S10°W.
26.00	Spur 75 ft. above draw proj. S15°E.
32.00	Draw, 60 ft. below spur drains S15°E.
36.00	Road, Silver City to Cherry Creek bears E & W.
40.00	Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S20 on W half; S21 on E half; from which
	A cedar tree 3 in. diam. bears
	S51°20'E, 50 lks. dist. marked
	1/4 S21 B T
	A cedar tree 4 in. diam. bears
	S48°W, 1.19 chs. dist. marked
	1/4 S20 B T
47.00	Spur 60 ft. above draw proj. S45°E.
70.00	Draw 90 ft. below spur drains S30°E.
74.00	Spur 75 ft. above draw proj. S30°E.
80.00	Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 16, 17, 20 & 21 marked on brass cap
	T12S S17 in NW
	R4W S16 in NE
	S21 in SE
	S20 in SW, quadrant; from which
	A cedar tree 4 in. diam. bears
	N39°E, 70 lks. dist. marked
	T12S R4W S16 B T
	A cedar tree 12 in. diam. bears
	S48°E, 75 lks. dist. marked
	T12S R4W S21 B T
	A cedar tree 8 in. diam. bears
	S19°W, 32 lks. dist. marked
	T12S R4W S20 B T
	A cedar tree 8 in. diam. bears

Subdivision T12SR4W.

N 65° W, 45 lks. dist. marked
T12SR4WS17BJ.
Land, rolling & hilly, SE slope.
Soil, good brown sandy loam, 6 to 20 in deep, medium texture, dry, clay & gravel subsoil.
Timber, cedar, undergrowth, sagebrush.
Aug. 22, 1911.

Aug 23, 1911. At 7h 33m. a. m. f. m. t. I set off 39°46' on the lat. arc; 11°44' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 16, 17, 20 & 21.
Thence I run
N 89°58' E on random line bet. secs 16 & 21.
40.00 Set temp. 1/4 sec. cor.
79.82 Intersect N & S line 7 lks. S of cor. of secs. 15, 16, 21 & 22.
Thence I run
S 89°55' W on true line bet. secs. 16 & 21.
Over rolling hills through scattering cedar
5.00 Draw 20 ft below cor. drains S 45° E.
25.00 Spur 100 ft. above draw proj. S 45° E.
28.00 Draw 50 ft. below spur drains S 45° E.
39.91 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S16 on N half; S 21 on S half; from which
A cedar tree 6 in. diam. bears
N 54° E, 86 lks. dist. marked
1/4 S16 B J
A cedar tree 6 in. diam. bears
S 45° W, 66 lks. dist. marked
1/4 S 21 B J
57.50 Spur 120 ft. above draw proj. S 30° E.
62.00 Draw 90 ft. below spur drains S 30° E.
66.50 Spur 85 ft. above draw proj. S 30° E.
68.00 Leave scattering cedar bears N 10° E & S 10° W.
72.00 Draw 70 ft. below spur drains S 10° E.

Subdivision T12S R4W.

74.00 Enter heavy cedar bears N & S.
79.82 The cor. of secs. 16, 17, 20 & 21.
Land, rolling hills S E slope
Soil, good sandy loam 5 to 25 in. deep
medium texture, dry, clay subsoil.
Timber, cedar; undergrowth, sagebrush.

N 0° 03' W bet. secs. 16 & 17.
Over rolling hills through heavy cedar
and sagebrush.
7.00 Leave heavy cedar bears N 10° W. & S 10° E.
12.25 Draw 65 ft. below cor. drains S 15° E.
17.00 Enter heavy cedar bears N 20° W & S 20° E.
19.50 Spur 75 ft. above draw proj. S 15° E.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in
ground for 1/4 sec. cor. marked on brass cap
1/4 S 17 on W half; S 16 on E half; from which
A cedar tree 18 in. diam. bears
N 61° E, 34 lks. dist. marked
1/4 S 16 B T
A cedar tree 5 in. diam. bears
N 48° 30' W 21 lks. dist. marked
1/4 S 17 B T
56.00 Draw 60 ft. below spur drains S 15° E.
80.00 Set an iron post 3 ft. long 2 in. diam. 24 in
in ground for cor. of secs. 8, 9, 16 & 17
marked on brass cap
T 12 S S 8 in NW
R 4 W S 9 in NE
S 16 in SE
S 17 in SW, quadrant; from which
A cedar tree 5 in. diam. bears
N 47° 20' E; 2.93 chs. dist. marked
T 12 S R 4 W S 9 B T.
A cedar tree 6 in. diam. bears
S 69° 10' E, 3.07 chs. dist. marked
T 12 S R 4 W S 16 B T
A cedar tree 8 in. diam. bears
S 14° W, 74 lks. dist. marked
T 12 S R 4 W S 17 B T

Subdivision J 12 S R 4 W.

A cedar tree 10 in. diam. bears N 45° W, 1.15 chs. dist. marked -J 12 S R 4 W S 8 13 J
Land, rolling hilly S E slope.
Ridges & slopes, poor sandy soil with gravel & some stones; valleys, good brown sandy loam, drains N E, clay & limestone subsoil.
Timber, cedar; undergrowth, sagebrush.
Aug. 23, 1911. At this cor. I set off 11° 39' N on the decl. arc; & at 12 h 03 m. p.m. L. m. t. observe the sun on the meridian the resulting lat. is 39° 47'.

N 89° 55' E on random line bet. secs. 9 & 16.
40.00 Set temp. 1/4 sec. cor.
79.74 Intersect N & S line 9 lks. S of cor. of secs. 9, 10, 15 & 16.
Thence I run
S 89° 51' W on true line bet. secs. 9 & 16.
Over rolling hills through scattering cedar timber & sagebrush.
11.00 Spur 90 ft. above cor. proj. S 45° E.
15.00 Leave cedar timber bears N 45° W & S 45° E.
23.80 Draw 100 ft. below spur drains S 45° E.
31.50 Enter heavy cedar bears N 40° W & S 40° E.
39.87 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 9 on N half; S 16 on S half; from which
A cedar tree, 12 in. diam. bears N 5° W, 83 lks. dist. marked 1/4 S 9 13 J
A cedar tree, 6 in. diam. bears S 84° E, 22 lks. dist. marked 1/4 S 16 13 J
43.00 Spur 110 ft. above draw proj. S 20° E.
55.00 Draw 90 ft. below spur drains S 25° E.
64.00 Spur 80 ft. above draw proj. S 45° E.
69.40 Draw 60 ft. below spur drains S 40° E.
73.00 Spur 30 ft. above draw proj. S 15° E.
77.60 Draw 65 ft. below spur drains S 30° E.

Subdivision T12S R4W

79.74 The cor. of secs. 8, 9, 16 & 17
Land, rolling hills S.E. slope
Ridges & slopes, light sandy soil with some gravel; valleys, good sandy loam, drains S.E.
Clay, gravel & limestone subsoil.
Timber, cedar; undergrowth, sagebrush.

N0°03'W bet. secs. 8 & 9.
Over rolling hills through cedar timber & sagebrush.
3.00 Head of draw, 30 ft. below cor. drains S20°E.
10.00 Spur 60 ft. above draw proj. S20°E.
18.00 Draw 90 ft. below spur drains S20°E.
31.00 Spur 120 ft. above draw proj. S20°E.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S8 on W half; S9 on E half; from which
A cedar tree 12 in. diam. bears
N60°E, 37 lks. dist. marked
1/4 S9 B.T.
A cedar tree, 14 in. diam. bears
N41°W, 22 lks. dist. marked
1/4 S8 B.T.
52.00 Draw 110 ft. below spur (wash in bottom 10 ft. deep 50 lks wide) drains S30°E.
64.00 Spur 100 ft. above draw proj. S40°E.
80.00 Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 4, 5, 8 & 9, marked on brass cap
T12S S5 in NW
R4W S4 in NE
S9 in SE
S8 in SW, quadrant; from which
A cedar tree 4 in. diam. bears
N63°30'E, 67 lks. dist. marked
T12S R4W S4 B.T.
A cedar tree 10 in. diam. bears
S29°45'E, 1.33 chs. dist. marked
T12S R4W S9 B.T.
A cedar tree, 10 in. diam. bears

Subdivision T12 S R4 W

S 38°40' W, 50 lks. dist. marked
T12 S R4 W S 8 B.T.
A cedar tree 7 in. diam. bears
N 82°30' W, 22 lks. dist. marked
T12 S R4 W S 5 B.T.
Land, rolling & hilly SE slope.
Ridges & slopes, light poor soil with gravel & some stones; valleys, good brown sandy loam, clay, gravel & limestone subsoil.
Timber, cedar; undergrowth, sagebrush.
Aug 23, 1911.

Aug 24, 1911.
N 89°51' E on random line bet. secs. 4 & 9.
40.00 Set temp. 1/4 sec. cor.
79.96 Intersect N & S line 12 lks. N of cor. of secs 3, 4, 9 & 10.
At this cor. I set off 11°19' N on the decl. arc; & at 12 h 03 m. l. m. t. observe the sun on the meridian, the resulting lat. is 39°48'.
Thence I run
S 89°56' W on true line bet. secs. 4 & 9.
Over rolling hills through scattering cedar & sagebrush.
14.00 Draw 40 ft. below cor. drains S 40° E.
20.00 Enter heavy cedar bears N & S.
30.00 Spur 70 ft. above draw proj. S 40° E.
33.00 Draw 60 ft. below spur drains S 40° E.
39.98 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 4 on N half; S 9 on S half; from which
A cedar tree 6 in. diam. bears
N 3° W, 14 lks. dist. marked
1/4 S 4 B.T.
A cedar tree 10 in. diam. bears
S 57° W, 63 lks. dist. marked
1/4 S 9 B.T.
63.50 Spur 110 ft. above draw proj. S 40° E.

Subdivision T 12 S R 4 W.

75.00 Draw 125 ft. below spur drains S10°E.
79.96 The cor. of secs. 4, 5, 8 & 9.
Land, rolling hills SE slope.
Ridges & slopes, light poor sandy soil with gravel; valleys, good sandy loam drains to SE, clay & gravel subsoil.
Timber, cedar; undergrowth, sagebrush.

Aug 24, 1911. At 3 h. 03 m. p. m. l. m. t. I set off 39°48' on the lat. arc; 11°16' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 4, 5, 8 & 9.
Thence I run on a true line
N 0°03' W bet. secs. 4 & 5.
Over rolling stony hills through heavy cedar.
29.40 Draw 90 ft. below cor. drains S10°E.
35.00 Spur 100 ft. above draw proj. S20°E.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S5 on W half; S4 on E half; from which
A cedar tree 12 in. diam bears N51°E, 32 lks. dist. marked 1/4 S4 B J
A cedar tree 8 in. diam. bears N79°W, 17 lks. dist. marked 1/4 S5 B J
53.80 Draw 75 ft. below spur drains S40°E.
68.00 Spur 75 ft. above draw proj. S70°E.
78.00 Draw 95 ft. below spur drains S70°E.
80.00 Spur 60 ft. above draw proj. S75°E.
87.50 Head of draw 50 ft below spur drains S75°E.
88.55 Intersect N bdy. of Tp. 3.55 chs. S89°27'E of cor. of secs. 4, 5 32 & 33. ~~heretofore described~~
Set an iron post 3 ft. long 2 in. diam. 24 in. in ground for closing cor. of secs 4 & 5 marked on brass cap
CC T11 S R4W S32 S33 on N half S4 in SE

Subdivision T12S R4W

S5 in SW, quadrant; from which
A cedar tree 9 in. diam. bears
S79°E, 33 lks. dist. marked
T12S R4W S4 B.T.
A cedar tree, 8 in. diam. bears
S45°W, 30 lks. dist. marked
T12S R4W S5 B.T.
I destroy all marks on cor. of secs. 4, 5, 32 & 33
that pertain to secs. 4 & 5.
Land, rolling stony & hilly, S.E. slope
Soil, light-poor sandy loam with gravel
& stones on limestone bedrock.
Timber, cedar.

Aug. 24, 1911.

Aug. 25, 1911. At 9h 02m a.m. l.m.t. I set
off 59°43' on the lat. arc; 11°01' N on the decl.
arc; & determine a meridian with the solar
at the cor. of secs. 5, 6, 31 and 32 on the
S bdy. of Tp. heretofore described
Thence I run
N0°03' W bet. secs. 31 & 32
Over gently rolling sandy land.
1.00 Enter scattering cedar bears N45°E & S45°W.
4.00 Leave scattering cedar; enter drifting sand
hills bears N45°E, & S45°W.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in.
in ground for 1/4 sec. cor. marked on brass
cap 1/4 S31 on W half; S32 on E half; dig pits
18 X 18 X 12 in. N & S of post, 3 ft. dist; & raise
a mound of earth 3/2 ft. base, 1/2 ft. high
W of cor.
80.00 Set an iron post 3 ft. long, 2 in. diam. 24
in. in ground for cor. of secs. 29, 30, 31 & 32
marked on brass cap
T12S S30 in NW
R4W S29 in NE
S32 in SE
S31 in SW, quadrant; dig pits 18 X 18 X
12 in. in each sec. 5/2 ft. dist; & raise a

Subdivision T12S R4W

mound of earth 4 ft. base, 2 ft. high W of cor.
S 4.00 chs. sandy soil with scattering cedars.
N 76.00 chs. drifting sand hills.
No timber

East on random line bet. secs. 29 & 32.
40.00 Set temp 1/4 sec. cor.
79.88 Intersect N & S line 5 lks. S of cor. of secs. 28 29, 32 & 33.
Aug. 25, 1911. At this cor. I set off 10°58' N on the decl. arc; and at 12 h 02 m. p.m. l. m. t. observe the sun on the meridian the resulting lat. is 39°44'.
Thence I run
S 89°58' W on true line bet. secs. 29 & 32.
Over gently rolling land through sagebrush.
5.40 Dim road, Leamington to Cherry Creek bears N 15° E & S 15° W.
12.00 Enter scattering cedar bears N 20° E & S 20° W.
24.00 Leave same bears N & S.
33.00 Enter thick scrubby cedar bears N & S.
39.94 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 29 on N half; S 32 on S half; from which
A cedar tree, 6 in. diam. bears
S 71° E, 56 lks. dist. marked
1/4 S 32 B T
A cedar tree 8 in. diam. bears
N 77° W, 14 lks. dist. marked
1/4 S 29 B T
46.00 Leave thick cedar and sagebrush bears N 15° E & S 15° W.
64.00 Enter drifting sandhills bears N 15° E & S 15° W
79.88 The cor. of secs. 29, 30, 31 & 32.
Land, gently rolling S slope.
E. 64.00 chs. good sandy loam, 1 to 3 ft. deep medium texture, dry, clay subsoil.
W 15.88 chs. drifting sandhills.
Timber, cedar; undergrowth, sagebrush.

Subdivision T12S R4W

Aug. 25, 1911. At 2 h 32 m. p. m. l. m. t. I set off 39° 44' on the lat. arc; 10° 56' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 29, 30, 31 & 32.
Thence I run
West on random line bet. secs. 30 & 31.
40.00 Set temp 1/4 sec. cor.
86.02 Intersect W bdy of Tp 5 lks. N. of cor. of secs. 25, 30, 31 & 36. heretofore described
Thence I run
N 89° 58' E. on true line bet. secs. 30 & 31.
Over sand hills through scattering sagebrush & greasewood.
16.00 Leave scattering sagebrush & greasewood; enter drifting sand hills bears N 10° E & S 10° W.
46.02 Set an iron post 3 ft. long 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 30 on N half; S 31 on S half; dig pits 18 X 18 X 12 in. E & W of post, 3 ft. dist; & raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N of cor.
86.02 The cor. of secs. 29, 30, 31 & 32.
Land; rolling, drifting sand hills.
Soil, drifting sand.
No timber; scattering sagebrush and greasewood.

Aug 25, 1911.

Aug. 26, 1911. At 9 h 32 m. a. m. l. m. t. I set off 39° 44' on the lat. arc; 10° 40' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 29, 30, 31 & 32.
Thence I run
N 0° 03' W bet. secs. 29 & 30.
Through drifting sand hills.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 30 on W half; S 29 on E half; from which

Subdivision T12 S R4 W.

A low cedar tree 12 in. diam. bears
N 3°45' W, 3.32 chs. dist. marked
T12 S30 B T
Big pile [illegible] in. N & S of post 3 ft. dist.
[illegible] a mound of earth 3½ ft. base,
1½ ft. high, W of cor.
[illegible] [illegible] sand hills; enter thick
[illegible] cedar bears N 75° W & S 75° E.
Mouth of draw drains S 45° E.
[illegible] Set an iron post 3 ft. long, 2 in. diam.
[illegible] in ground for cor. of secs. 19, 20, 29
[illegible] marked on brass cap
T12 S S19 in NW
R4 W S20 in NE
S29 in SE
S30 in SW quadrant; from which
A cedar tree, 18 in. diam. bears
N [illegible] 30' E, 68 lks. dist. marked
T12 S R4 W S20 B T
A cedar tree 20 in. diam. bears
S 66° 30' E, 19 lks. dist. marked
T12 S R4 W S29 B T
A cedar tree 20 in. diam. bears
S 33° W, 34 lks. dist. marked
T12 S R4 W S30 B T
A cedar tree 20 in. diam. bears
N 34° 30' W, 40 lks. dist. marked
T12 S R4 W S19 B T
S 53.00 chs. drifting sand hills.
N 27.00 chs. rolling land.
Soil light poor sandy loam, 18 to 30 in.
deep sand subsoil.
Timber cedar.

N [illegible] 58' E on random line bet. secs. 20 & 29.
[illegible] Set temp. [illegible] sec. cor.
[illegible] [illegible] line [illegible] N of cor. of secs.
[illegible]
Aug 26, 19[illegible] At this cor. I set off 10°38' N
[illegible] dist. arc, and at 12 h 02 m [illegible]

Subdivision T12 S R4 W.

observe the sun on the meridian the resulting lat. is 39°45'.
Thence I run
N 89°56' W on true line bet. secs. 20 & 29.
Over rolling hills through scattering cedar & sagebrush.

5.50 Spur 50 ft. above cor. proj. S 20° E.
12.00 Leave cedar bears N 15° W & S 15° E.
16.00 Draw 60 ft. below spur drains S 15° E.
18.00 Enter thick cedar bears N & S.
25.50 Spur 45 ft. above draw proj. S 15° E.
32.00 Draw 75 ft. below spur drains S 20° E.
32.25 Road, Nephi to Cherry Creek bears N 30° W & S 30° E.
39.90 Set an iron post 3 ft. long, 1 in. diam., 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 20 on N half; S 29 on S half; from which
A cedar tree 8 in. diam. bears N 76° E, 88 lks. dist. marked 1/4 S 20 B. T.
A cedar tree, 6 in. diam. bears S 56° E, 84 lks. dist. marked 1/4 S 29 B T.
58.00 Spur 90 ft. above draw proj. S 10° E.
62.00 Draw 75 ft. below spur drains S 10° E
76.00 Spur 70 ft. above draw proj. S 10° E.
79.80 The cor. of secs. 19, 20, 29 & 30.
Land rolling, S E slope.
Soil, light sandy loam, 5 to 12 in. deep, medium texture, dry, clay & gravel subsoil.
Timber, cedar; undergrowth, sagebrush.

Aug. 26, 1911. At 2 h 02 m. p. m. l. m. t. I set off 39°45' on the lat. arc; 10°35' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 19, 20, 29 & 30.
Thence I run
N 89°58' W on true line bet. secs. 19 & 30.
Over rolling land through thick cedar timber & sagebrush.

Subdivision T12S R4W.

9.25 Draw 110 ft. below cor. drains S10°E.
18.00 Spur 80 ft. above draw proj. S10°E.
33.00 Draw 150 ft. below spur drains S10°W.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S19 on N half; S30 on S half; from which
A cedar tree 5 in. diam. bears North 37 lks. dist. marked 1/4 S19 B T
A cedar tree 8 in. diam. bears S63°W, 42 lks. dist. marked 1/4 S30 B T.
50.00 Spur 175 ft. above draw proj. S20°W.
76.00 Leave cedar bears N40°E & S40°W.
80.50 Draw 200 ft. below spur proj. S40°W.
83.50 Enter cedar bears N40°E & S40°W.
86.32 Intersect W. bdy. of Tp. 2.20 chs. S. of cor. of secs. 19, 24, 25 & 30. heretofore described
Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for closing cor. of secs. 19 & 30 marked on brass cap
T12S on N half
CC R5W S24 S25 on W half
S19 in NE
R4W S30 in S.E. quadrant; from which
A cedar tree, 15 in. diam. bears N46°E, 1.20 chs. dist. marked T12S R4W S19 B T
A cedar tree, 20 in. diam. bears S47°E. 1.40 chs. dist. marked T12S R4W S30 B T
I destroy all marks on cor. of secs. 19, 24, 25 & 30 that pertain to secs. 19 & 30.
Land rolling S.E. & S.W. slope.
Soil, light-sandy loam 5 to 30 in. deep medium texture, dry, clay and sand subsoil.
Timber, cedar; undergrowth, sagebrush.
Aug. 26, 1911.

Subdivision T12 S R4 W.

Aug 28, 1911. At 8h 0m a. m. l. m. t. I set off 39° 45' on the lat. arc; 10° 00' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 19, 20, 29 & 30. Thence I run
N 0° 03' W bet. secs. 19 & 20.
Over rolling hilly land, through thick cedar timber & sagebrush, ascend.
10.00 Spur 70 ft. above cor. proj. S 10° E.
38.00 Leave thick; enter scattering cedar, bears N 20° W & S 20° E.
40.00 Set an iron post 3 ft. long 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S19 on W half; S20 on E half; from which
A cedar tree 20 in. diam. bears
N 67° 30' E, 2.09 chs. dist. marked
1/4 S20 B.T
A cedar tree 14 in. diam. bears
N 87° 30' W, 1.20 chs. dist. marked
1/4 S19 B.T
41.00 Draw 175 ft. below spur drains S 30° E.
46.00 Leave scattering; enter thick cedar bears N 30° W & S 30° E.
65.00 Spur 200 ft. above draw proj. S 20° E.
78.00 Road, Nephi to Cherry Creek bears E & W.
80.00 Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 17, 18, 19 & 20 marked on brass cap
T12 S S18 in NW
R4 W S17 in NE
S20 in SE
S19 in SW, quadrant; from which
A cedar tree 16 in. diam. bears
N 68° E, 40 lks. dist. marked
T12 S R4 W S17 B.T
A cedar tree, 8 in. diam. bears
S 62° E, 25 lks. dist. marked
T12 S R4 W S20 B.T
A cedar tree 10 in. diam. bears
S 47° W, 15 lks. dist. marked

Subdivision T12SR4W

T12SR4W S19 BT
A cedar tree 14 in. diam. bears
N21°W, 61 lks. dist. marked
T12SR4W S18 BT
Land, rolling hills & E slope.
Soil, sandy loam 10 to 20 in. deep, medium texture, dry, clay subsoil.
Timber, cedar; Undergrowth, sagebrush.

S89°56'E on random line bet. secs. 17 & 20.
40.00 Set temp. 1/4 sec. cor.
79.70 Intersect N & S line at the cor. of secs. 16, 17, 20 & 21.
Thence I run
N89°56'W on true line bet. secs. 17 & 20.
Over rolling hilly land through cedar timber & sagebrush, ascend.
5.20 Spur 50 ft. above cor. proj. S10°E.
15.50 Draw 100 ft. below spur drains S15°E.
38.75 Spur 90 ft. above draw proj. S20°E.
39.85 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S17 on N half; S20 on S half; from which
A cedar tree 15 in. diam. bears
S10°E, 17 lks. dist. marked
1/4 S20 BT
A cedar tree 6 in. diam. bears
N63°W, 54 lks. dist. marked
1/4 S17 BT
56.40 Draw 125 ft. below spur drains S20°E.
69.00 Spur 110 ft. above draw proj. S10°E.
74.00 Head of draw 100 ft. below spur drains S10°E.
79.70 The cor. of secs. 17, 18, 19 & 20.
Land, rolling hilly.
Soil, sandy loam, 5 to 20 in. deep, medium texture, dry, clay and gravel subsoil.
Timber, cedar; undergrowth, sagebrush.
Aug. 28, 1911. At this cor. I set off 9°56' N on

Subdivision T12S R4W

the decl. arc; and at 12 h 01 m p.m. l. m. t. observe the sun on the meridian the resulting lat. is 39°46'.

S 89°58' W on true line bet. secs. 18 & 19.
Over rolling land through cedar timber ascend gently.
2.00 Spur 15 ft. above cor. proj. S.
24.00 Wash 5 ft. deep, 15 lks. wide drains S 20° W.
40.00 Set an iron post 3 ft long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S18 on N half; S19 on S half; from which
A cedar tree, 6 in. diam. bears N 70° E, 26 lks. dist. marked 1/4 S18 B T
A cedar tree 8 in. diam. bears S 40° W, 17 lks. dist. marked 1/4 S19 B T.
50.00 Wash 15 ft. deep, 50 lks wide drains S.
58.20 Road, Nephi to Cherry Creek bears N 70° W & S 70° E.
62.50 Wash 6 ft. deep 30 lks. wide drains S.
84.50 Spur 100 ft. high proj. S.
86.20 Intersect W. bdy. of Tp 2.08 chs. S 0°04' E. of cor. of secs. 13, 18, 19 & 24. heretofore described
Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for closing cor. of secs. 18 & 19, marked on brass cap
T12S on N half
CC R5W S13 S24 on W half
S18 in NE
R4W S19 in SE quadrant; from which
A cedar tree 10 in. diam. bears N 55° E, 47 lks. dist. marked T12S R4W S18 B T
A cedar tree 16 in. diam. bears S 36° E, 38 lks. dist. marked T12S R4W S19 B T
I obliterate all marks on cor. of secs. 13, 18, 19 & 24 that pertain to secs. 18 & 19.
Land, rolling & hilly.

Subdivision T12SR4W.

Soil, sandy loam 5 to 24 in. deep; medium texture, dry, clay & gravel subsoil.
Timber, cedar.

Aug. 28, 1911. At 3h 31m. p. m. l. m. t. I set off 39°45' on the lat. arc; 9°53' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 17, 18, 19 & 20.
Thence I run
N 0°03' W bet. secs. 17 & 18.
Over rolling hills through cedar timber.

6.00 Head of draw drains S15°E.
19.45 Spur 160 ft. above head of draw proj. S20°W.
24.00 Leave cedar timber; enter sagebrush bears N20°E. & S20°W.
28.75 Draw 130 ft. below spur drains S40°W.
33.00 Leave sagebrush; enter cedar timber bears N20°E & S20°W.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S18 on W half; S17 on E half; from which
A cedar tree, 6 in. diam. bears
S57°E, 82 lks. dist. marked
1/4 S17 B T
A cedar tree 6 in. diam. bears
S70°W 40 lks. dist. marked
1/4 S18 B T
41.00 Leave cedar; enter sagebrush bears E & W.
57.00 Leave sagebrush; enter cedar bears N10°E & S10°W.
70.00 Spur 200 ft. above draw proj. S45°E.
80.00 Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 7, 8, 17 & 18, marked on brass cap
T12S 57 in NW
R4W 58 in NE
S17 in SE
S18 in SW, quadrant; from which
A cedar tree, 10 in. diam. bears
N33°30'E, 1.58 chs. dist. marked

Subdivision T12S R4W.

T12SR4WS8BJ
A cedar tree 10 in. diam. bears
S21°E, 47 lks. dist. marked
T12SR4W S17BJ
A cedar tree 12 in. diam. bears
S38°30'W, 84 lks. dist. marked
T12SR4W S18BJ
A cedar tree 10 in. diam. bears
N42°W, 30 lks. dist. marked
T12SR4W S7BJ
S 57.00 chs. rolling hills SE & SW slope.
Soil, sandy loam 5 to 20 in. deep, medium texture, dry, clay & gravel subsoil.
N 23.00 chs. broken & hilly.
Soil, poor gravelly & stony; lime stone base.
Timber, cedar; undergrowth, sagebrush.
Aug 28, 1911.

Aug. 29, 1911. At 9h 01m. a. m. l. m. t. I set off 39°47' on the lat. arc; 9°37' N on the decl. arc, & determine a meridian with the solar at the cor. of secs. 7, 8, 17 & 18.
Thence I run
S89°56'E on random line bet. secs. 8 & 17
40.00 Set temp. 1/4 sec. cor.
79.82 Intersect N & S line 2 lks. N of cor. of secs. 8, 9, 16 & 17.
Thence I run
N89°55'W on true line bet. secs. 8 & 17.
Over rolling hills through cedar timber & sagebrush.
3.00 Spur 50 ft. above cor. proj. S20°E.
15.00 Draw 60 ft. below spur drains S25°E.
20.00 Spur 65 ft. above draw proj. S20°E.
28.00 Draw 50 ft. below spur drains S30°E.
34.00 Spur 75 ft. above draw proj. S30°E.
39.50 Draw 80 ft. below spur drains S30°E.
39.91 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap

Subdivision T12S R4W

	1/4 S8 on N half; S17 on S half; from which
	A cedar tree 10 in. diam. bears
	N 23° E 46 lks. dist; marked
	1/4 S 8 B J
	A cedar tree, 12 in. diam. bears
	S 74° W, 20 lks. dist. marked
	1/4 S 17 B J
45.00	Spur 85 ft. above cor. proj. S.
56.00	Draw 75 ft. below spur drains S.
74.00	Spur 65 ft. above draw proj. S 20° E
78.60	Head of draw 80 ft. below spur drains S 20° E
79.82	The cor. of secs. 7, 8, 17 & 18.
	E 78.60 chs. small rolling hills.
	Soil, good clay loam, 6 to 14 in. deep, fine
	texture, dry, clay subsoil.
	W 1.20 chs. broken & stony; limestone base.
	Timber, cedar; undergrowth, sagebrush.
	S 89° 58' W on true line bet. secs. 7 & 18.
	Over broken stony mountainous land
	through cedar timber, ascend.
7.00	Spur 100 ft. above cor. proj. S.
10.50	Draw 110 ft. below spur drains S.
20.00	Spur 200 ft. above draw proj. S 20° W.
40.00	Set an iron post 3 ft. long, 1 in. diam. 26 in.
	in ground for 1/4 sec. cor. marked on brass cap
	1/4 S 7 on N half; S 18 on S half; from which
	A cedar tree 6 in. diam. bears
	N 69° E, 1.39 chs. dist. marked
	1/4 S 7 B J
	A cedar tree 6 in. diam. bears
	S 22° W, 82 lks. dist. marked
	1/4 S 18 B J
43.50	Draw 300 ft. below spur drains S 35° W.
55.00	Spur 275 ft. above draw proj. S 35° W.
63.50	Draw 250 ft. below spur drains S 25° W.
73.00	Spur 300 ft. above draw; thence descend
	along top of small spur proj. W.
86.15	Intersect W. bdy. of Tp. 2.94 chs. S 0° 04' E
	of cor. of secs. 7, 12, 13 & 18. heretofore described

Subdivision T12S R4W.

Set an iron post 3 ft. long 2 in. diam. 24 in. in ground for closing cor. of secs. 7 & 18 marked on brass cap
T12S on N half
CC R5W S12 S13 on W half
S7 in NE
R4W S18 in SE, quadrant; from which
A cedar tree, 7 in. diam. bears
N63°E, 38 lks. dist. marked
T12S R4W S7 B T
A cedar tree 10 in. diam. bears
S34°E, 30 lks. dist. marked
T12S R4W S18 B T
I obliterate all marks on cor. of secs. 7, 12, 13 & 18 that pertain to secs. 7 & 18.
Land, broken & hilly.
Soil, poor gravelly & stony; limestone base.
Timber, cedar.
Aug. 29, 1911. At this cor. I set off 9°34' N on the decl. arc; and at 12 h 01 m. p.m. l. m. t. observe the sun on the meridian, the resulting lat. is 39°47'.

Aug. 29, 1911. At 2 h 01 m. p. m. l. m. t. I set off 39°47' on the lat. arc; 9°33' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 7, 8, 17 & 18.
Thence I run
N0°03' W bet. secs. 7 & 8.
Over broken stony mountainous land through cedar timber.
2.00 Head of draw 40 ft. below cor. drains S35°E.
11.00 Spur 150 ft. above draw proj. S35°E.
21.00 Draw 125 ft. below spur drains S35°E.
36.00 Spur 210 ft. above draw proj. S40°E.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S7 on W half; S8 on E half; from which
A cedar tree 16 in. diam. bears

Subdivision T12S R4W.

N 85° E, 18 lks. dist. marked
1/4 S 8 B T
A cedar tree, 12 in. diam. bears
N 49° W, 31 lks. dist. marked
1/4 S 7 B T
49.30 Draw 150 ft. below spur draws S 30° E.
77.50 Ridge 325 ft. above draw bears, N 20° E, & S 20° W.
80.00 Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for cor. of secs. 5, 6, 7 & 8, marked on brass cap
T12S S6 in NW
R4W S5 in NE
S8 in SE
S7 in SW, quadrant; from which
A cedar tree, 18 in. diam. bears
N 56° E, 43 lks. dist. marked
T12S R4W S5 B T
A cedar tree, 10 in. diam. bears
S 8° E, 89 lks. dist. marked
T12S R4W S8 B T
A cedar tree 12 in. diam. bears
S 48° 30' W, 74 lks. dist. marked
T12S R4W S7 B T
A cedar tree 8 in. diam. bears
N 61° 30' W 55 lks. dist. marked
T12S R4W S6 B T
Land, broken & mountainous.
Soil, stony and gravelly limestone formation.
Timber, cedar.

Aug. 29, 1911.

Aug. 30, 1911. At 9h 01m. a.m. l. m. t. I set off 39° 48' on the lat. arc; 9° 16' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 5, 6, 7 & 8.
Thence I run
S 89° 55' E on random line bet. secs. 5 & 8.
40.00 Set temp. 1/4 sec. cor.

Subdivision of 12 S R 4 W.

79.84 Intersect N & S line 3 lks. S of cor. of secs. 4, 5, 8 & 9.
Thence I run
N 89°56' W on true line bet. secs. 5 & 8.
Over broken & hilly land through cedar timber, ascend.
7.00 Spur 110 ft. above cor. prog. S 40° E.
20.00 Draw 150 ft. below spur drains S 40° E.
26.00 Spur 125 ft. above draw prog. S 40° E.
37.00 Draw 100 ft. below spur drains S 20° E.
39.92 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 5 on N half; S 8 on S half; from which
A cedar tree, 10 in. diam. bears
N 3° W. 23 lks. dist. marked
1/4 S 5 B T
A cedar tree 10 in. diam. bears
S 15° E, 34 lks. dist. marked
1/4 S 8 B T
49.25 Spur 250 ft. above draw prog. S 60° E.
58.00 Draw 200 ft. below spur drains S 65° E.
63.25 Spur 225 ft. above draw prog. S 65° E.
67.25 Head of draw 100 ft. below spur drains S 60° E.
77.25 Ridge 200 ft. above draw bears N 20° E and S 20° W.
79.84 The cor. of secs. 5, 6, 7 & 8
Land, broken & mountainous.
Soil, gravelly and stony limestone formation.
Timber, cedar.

S 89°58' W on true line bet. secs. 6 & 7.
Over broken mountainous land through cedar timber, descend.
37.00 Draw 350 ft. below cor. drains S 85° W.
40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 6 on N half; S 7 on S half; from which
A cedar tree 12 in. diam. bears

Subdivision T12SR4W

S69°30'E, 1.92 chs. dist. marked
1/4 S7 B T
A cedar tree, 10 in. diam. bears
N 75°W, 57 lks. dist. marked
1/4 S6 B T.

Aug. 30, 1911. At this cor. I set off 9°13' N on the decl. arc; and at 12 h. 01 m. p.m. l. m. t. observe the sun on the meridian the resulting lat. is 39°48'.

49.50 Spur 110 ft. above draw proj. S50°W.
51.00 Draw 80 ft. below spur drains S40°W.
67.00 Spur 75 ft. above draw proj. S20°W
71.50 Draw 125 ft. below spur drains S10°W.
85.00 Spur 150 ft. above draw proj. S10°W.
86.30 Intersect W. bdy. of Tp. 6.70 chs. S0°06'E of cor. of secs. 1, 6, 7 & 12. heretofore described
Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for closing cor. of secs. 6 & 7. marked on brass cap
T12S on N half
CCR5W S1 S12 on W half
S6 in NE
R4W S7 in SE, quadrant; from which
A cedar tree, 6 in. diam. bears
N58°E, 10 lks. dist. marked
T12SR4W S6 B T
A cedar tree, 8 in. diam. bears
S71°E, 33 lks. dist. marked
T12SR4W S7 B T
I destroy all marks on cor. of secs. 1, 6, 7 & 12 that pertain to secs. 6 & 7.
Land, broken & hilly S.W. slope.
Soil, stony and gravelly limestone formation.
Timber, cedar.

Aug. 30, 1911. At 3 h. 01 m. p.m. l. m. t. I set off 39°48' on the lat. arc; 9°11' N on the decl. arc & determine a meridian with the solar at the cor. of secs. 5, 6, 7 & 8.

Subdivision T12 S R4 W.

Thence I run
N 0°03' W on true line bet. secs. 5 & 6.
Over broken mountainous land through cedar timber, descend gently.
7.00 Head of draw, 200 ft. below cor. drains S 80° W.
37.00 Spur 500 ft. above draw proj. S 20° W.
40.00 Set an iron post 3 ft. long, 1 in. diam, 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 6 on W half; S 5 on E half; from which
A cedar tree 12 in. diam. bears N 74° E, 19 lks. dist. marked 1/4 S 5 B T
A cedar tree 6 in. diam. bears N 29° W, 75 lks. dist. marked 1/4 S 6 B T
52.80 Head of draw 75 ft. below spur drains S 75° W.
72.00 Spur 100 ft. above draw proj. S 80° W.
82.90 Draw 250 ft. below spur drains S 60° W.
89.46 Intersect N. bdy. of Tp. 5.00 chs. S 89°27' E of cor. of secs. 5, 6, 31 & 32.
Set an iron post 3 ft. long, 2 in. diam. 24 in. in ground for closing cor. of secs. 5 & 6 marked on brass cap
C C T11 S R4 W S31 S32 on N half
S 5 in SE
S 6 in SW, quadrant; from which
A cedar tree 8 in. diam. bears S 34° E, 62 lks. dist. marked T12 S R4 W S 5 B T
A cedar tree, 10 in. diam. bears S 29° W, 71 lks. dist. marked T12 S R4 W S 6 B T
I obliterate all marks on cor. of secs. 5, 6, 31 & 32 that pertain to secs. 5 & 6.
Land, broken & mountainous. SW slope.
Soil, very stony & gravelly limestone formation.
Timber, cedar.

Aug. 30, 1911.

General Description.

This township contains a variety of land from rolling bench to mountainous, and the soil ranges from drifting sand to good clay loam.

The soil in the central eastern and south eastern parts of this township is generally good brown clay loam.

All of sec. 31, the greater part of sec. 30 and the western part of sec. 32 are covered with drifting sandhills.

The central, western part of this township is sandy while the mountains in the north western part are stony and broken.

A great portion of this township is covered with a growth of scrubby cedar timber.

There is a very sparse growth of grass on the mountains, but practically no grass in the small valleys.

There is some white sage in the southern part which furnishes fall & winter graging for cattle & sheep.

From surface indications there are large quantities of limestone in the north western part of this township.

The only water found is a small spring known as Mud Spring in the N.W. cor. of sec. 11.

There is no water for irrigation in this Tp.

This township is exposed to dry hot S. W. winds very detrimental to vegetation and which drifts sand from sandhills in S.W, gradually taking them in a N.E. direction.

I was unable to find any trace of Ferdinand Erickson, O. F. Wall, H. L. Coates, Louis Erickson, Nels Larson, George Christensen, Andrew Nelson, Chas. Oldham, James Borg & Ole Hansen or their improvements.

John G. Baxter is the only settler in this Tp. His cabin is in the S.W. cor. of sec. 2 and he claims Mud Spring. The estimated value of his improvements is $500.

John W. Dougall U.S. Surveyor

BOOK A-380

4—680

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, ..., U. S. Surveyor, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of .....

For certificate of assistants see book "F" T.13 S., R.4 W.

of the ..... Meridian, in the State of .....

which are represented in the foregoing field notes as having been executed 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 executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	

Subscribed and certified to before me on the dates of the final service as shown above.

.....

U. S. Surveyor.

6—2764

FINAL OATH OF UNITED STATES SURVEYOR.

I, _____, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for _____ bearing date of the _____ day of _____, 191 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

For final oath of transitman see book "F" T.13 S., R.4 W.

_____ of the _____ Meridian, in the State of _____, which are represented i the foregoing field notes as having been executed by me, and under my direction; and I do furthe solemnly swear that all the corners of said survey have been established and perpetuated in strict accor ance with the Manual of Surveying Instructions, and the special written instructions of the U. S. 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.

_____
U. S. Surveyor.

Subscribed by said _____, and sworn to before me this _____ day of _____, 191

SEAL

_____

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 30, 1913

The foregoing field notes of the survey of the Subdivisional lines of Township No. 12 South, Range No. 4 West of the Salt Lake Base and Meridian, Ut

executed by John W. Dougall under his special instructions dated March 27, 1911, having b critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Thomas Bell
U. S. 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 offic

_____
U. S. Surveyor Genera

6—2761

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Filed June 15-1912
10/16

4—679

"C"

BOOK A-380

M.S.B.

FIELD NOTES

OF THE SURVEY OF THE

NORTH ,EAST SOUTH AND WEST BOUNDARIES

OF

TOWNSHIP No.12 SOUTH ,RANGE No.4 WEST .

Of the Salt Lake Base and *Meridian,*

In the State of Utah.

EXECUTED BY

John W.Dougall

In the capacity of U. S. ~~*Surveyor*~~ Transitman *under instructions dated* March ,27,1911 *191*, *issued by the United States Surveyor General to govern surveys included in Group No.* 10 Utah, *which were approved by the Commissioner of the General Land Office,* April 22, *1911, pursuant to authority contained in the Act of Congress dated* , *191*

Survey commenced August 1,1911. , ~~*191*~~

Survey completed August ,12 ,1911. , ~~*191*~~

6—151

Retr. E. Bdy 6-05-36 West Bdy 2-02-20 Retr. N Bdy 1-00-15
Retr. S Bdy 2-00-50 Res " " 2-06-80 Res N " 5-06-75
S Bdy 4-05-90

BOOK A-380

INDEX DIAGRAM.

Township 12 South, Range 4 West

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20	7	8	9	10	11	12	7
23	18	17	16	15	14	13	6
24	19	20	21	22	23	24	4
17	30	29	28	27	26	25	3
18	31	32	33	34	35	36	2
	16	15	14	13	12	11	

6—151

Retracement of East Boundary T12S R4W.

Survey commenced July 31, 1911 & executed with a W & L. E. Gurley light mountain transit, no number, with solar attachment.
For full description of instrument see Book A.

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

July 31, 1911. At the cor. of Tps. 12 & 13 S, Rs 3 & 4 W, which is a hard sandstone 10 x 8 x 8 in above ground dimly marked.
I destroy all traces of the old cor. and re-establish it at same point as follows:
Set an iron post 3 ft. long 3 in. diam. 24 in. in ground for cor. of Tps. 12 & 13 S, Rs 3 & 4 W, marked on brass cap
T12S on N half
T13S on S half
R4W S36 in NW
R3W S31 in NE
R3W S6 in SE
R4W S1 in SW, quadrant; raise a mound of stone 2 ft. base 1½ ft. high S of cor.
Pits impracticable.
At 10 h 58 m. p. m. l. m. t. I observe Polaris at eastern elongation, in accordance with Manual of Instructions & mark a point in the line thus determined on a peg driven in the ground 5.00 chs. N of my station.

July 31, 1911.

Aug 1, 1911. At 9 h. 46 m. a. m. l. m. t. I lay off the azimuth of Polaris 1° 31' to the west and mark the meridian thus determined by driving a tack in a wooden peg firmly driven in the ground 5.00 chs

Retracement of East Boundary T12SR4W.

Chains	
	N of my station
	At 9h 06m. a. m. l. m. t. I set off 39°43' N on the lat. arc; 18°13' N on the decl. arc; and mark a point in the meridian determined with the solar, by a pencil mark on the peg already set 5.00 chs. N. of my station; this mark falls 0.3 in. west of the meridian established by Polaris observation.
	I set off 18°11' N on the decl. arc; and at 12h 06m. p.m. l. m. t. observe the sun on the meridian, the resulting lat. is 39°43'.
	At 2h 06m. p. m. l. m. t. I set off 39°43' on the lat. arc; 18°10' N on the decl. arc; and mark a point in the meridian determined with the solar by a pencil mark on the peg already set 5.00 chs. N of my station: this mark falls 0.5 in. east of the meridian established by the Polaris obs.
	The solar apparatus by a. m. & p. m. observations defines positions for meridian respectively about 0'16" west and 0'26" east of the meridian established by the Polaris obs.: therefore I conclude that the adjustments of the instruments are satisfactory.
	The magnetic bearing of the true meridian at 9h 15m. a. m. is N16°45'W.: the angle thus determined gives the magnetic decl. is 16°45'E.
	From the Tp. cor. previously described, I retrace
	North on the E. bdy. of Tp. bet. secs. 31 & 36.
	Over bottom land through shadscale.
30.00	Leave shadscale: enter white sage bears N10°E & S10°W.
40.53	Intersect the 1/4 sec. cor. which is a limestone 6x8x10 in. above ground poorly marked and loosely set.
	I destroy all traces of the old cor, and re

Retracement of East Boundary T12 S R4 W.

Chains

establish it at same point as follows: Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S36 on W half; S31 on E half; dig pits 18x18x12 in. N & S of post, 3 ft. dist; raise a mound of earth 3½ ft. base, 1½ ft. high W of cor.

48.00 Road, Leamington to Silver City bears N30°E & S30°W.

64.00 Leave bottom: enter rolling land bears N30°E & S30°W, ascend.

80.77 Intersect cor. of secs. 25, 30, 31 & 36 which is a quartzite stone 12x12x10 in. above ground, dimly marked & loosely set.

I destroy all traces of the old cor. and re-establish it at same point as follows: Set an iron post 3 ft. long, 3 in. diam. 24 in. in ground for cor. of secs. 25, 30, 31 & 36 marked on brass cap

T12 S on N half

R4 W S25 in NW

R3 W S30 in NE

S31 in SE

S36 in SW, quadrant; dig pits 18x18x12 in. in each sec. 5½ ft. dist; & raise a mound of earth 4 ft. base, 2 ft. high, W of cor.

S 64.00 chs. bottom land.

Soil, clay loam 8 to 20 in. deep, fine texture, dry, clay subsoil.

N 16.77 chs. rolling land.

Soil, sandy loam, 5 to 16 in. deep, medium texture, dry, clay subsoil.

North on retracement line bet. secs. 25 & 30. Over gently rolling land SE slope.

34.00 Enter cedar timber bears N60°W & S60°E.

40.18 Intersect old 1/4 sec. cor. which is a cedar post, greatly decayed, marks nearly obliterated.

I destroy all traces of the old cor. and re-establish it at same point as follows:

Retracement of East Boundary T12S R4W

Chains

Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S25 on W half, S30 on E half; from which
A cedar tree 8 in. diam. bears
N 76° 40' E, 98 lks. dist. marked
1/4 S30 B.T.
A cedar tree 10 in. diam. bears
S 8° 40' W, 1.44 chs. dist. marked
1/4 S25 B.T.

57.00 Leave cedar timber bears E & W.

80.49 Intersect cor. of secs. 19, 24, 25 & 30 which is a quartzite stone 8 x 9 x 11 in. above ground badly decomposed, marks nearly obliterated.
I destroy all traces of the old cor. and re-establish it at same point as follows:
Set an iron post 3 ft. long, 3 in. diam. 24 in. in ground for cor. of secs. 19, 24, 25 & 30 marked on brass cap
T12S on N half
R4W S24 in NW
R3W S19 in NE
S30 in SE
S25 in SW, quadrant; from which
A cedar tree 6 in. diam. bears
N 23° E, 2.26 chs. dist. marked
T12S R3W S19 B.T.
No other trees in limits. Dig pits 18 x 18 x 12 in. in each sec. 5½ ft. dist; I raise a mound of earth 4 ft. base, 2 ft. high, W of cor.
Land, gently rolling.
Soil, sandy loam, 5 to 15 in. deep, medium texture, dry, clay subsoil.
Timber, cedar

North on retracement line bet. secs. 19 & 24.
Over gently rolling land.

2.00 Enter scattering cedar bears E & W.
10.00 Leave same, bears S 80° E & N 80° W.
14.50 Draw 75 ft. deep drains S 60° E.
36.00 Enter thick cedar bears N 80° W & S 80° E.

Retracement of East Boundary T12S R4W

Chains	
40.53	Fall 1 lk. west of 1/4 sec. cor. which is a limestone 18x12x10 in. above ground dimly marked & loosely set.
	I destroy all traces of the old cor. and reestablish it at same point as follows: Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S24 on W half; S19 on E half; from which
	A cedar tree 12 in. diam. bears N 72° E, 22 lks. dist. marked: 1/4 S19 B T
	A cedar tree, 10 in. diam. bears S 61° W, 72 lks. dist. marked 1/4 S 24 B T
56.00	Spur 150 ft above draw proj. S 60° E.
70.00	Leave thick: enter scattering cedar timber bears N 40° W & S 40° E.
75.00	Wood road bears N 80° W & S 80° E.
81.00	Intersect cor. of secs. 13, 18, 19 & 24 which is a cedar post greatly decayed marks nearly obliterated.
	I destroy all traces of the old cor. and reestablish it at same point as follows: Set an iron post 3 ft. long, 3 in. diam. 24 in. in ground for cor. of secs. 13, 18, 19 & 24 marked on brass cap
	T12S on N half
	R4W S13 in NW
	R3W S18 in NE
	S19 in SE
	S24 in SW, quadrant; from which
	A cedar tree, 10 in. diam. bears S54° E, 3.58 chs. dist. marked T12S R3W S19 B T
	A cedar tree, 8 in. diam. bears S 60° W, 95 lks. dist. marked T12S R4W S24 B T
	No other trees in limits: Dig pits 18x18x12 in in each sec. 5½ ft. dist; & raise a mound of earth 4 ft. base, 2 ft. high, W of cor.

Retracement of East Boundary T12S R4W

Chains	
	Land, gently rolling. Soil, sandy loam, 6 to 16 in. deep, medium texture, dry, clay subsoil. Cedar timber.
	North on retracement line bet. secs. 13 & 18. Over gently rolling land through scattering cedar timber.
40.70	Intersect 1/4 sec. cor. which is a cedar post greatly decayed, marks nearly obliterated. I destroy all traces of the old cor. and re-establish it at same point as follows: Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S13 on W half; S18 on E half; from which A cedar tree 12 in. diam. bears S 39° E, 1.60 chs. dist. marked 1/4 S18 B T A cedar tree 6 in. diam. bears N 33° W, 2.34 chs. dist. marked 1/4 S13 B T
43.50	Road, Silver City to Cherry Creek bears N 45° E & S 45° W.
79.00	Small wash drains E.
81.14	Intersect cor. of secs. 7, 12, 13 & 18 which is a limestone 9 x 8 x 7 in. above ground badly decomposed & marks nearly obliterated. I destroy all traces of the old cor. and re-establish it at same point as follows: Set an iron post 3 ft. long 3 in. diam. 24 in. in ground for cor. of secs. 7, 12, 13 & 18 marked on brass cap T12S on N half R4W S12 in NW R3W S7 in NE S18 in SE S13 in SW quadrant; from which A cedar tree, 6 in. diam. bears N 59° 20' E, 4.33 chs. dist. marked T12S R3W S7 B T

Retracement of East Boundary T12S R4W.

Chains

A cedar tree 7in. diam. bears
S 45° E, 33 lks. dist. marked
T12S R3W S18 B T
A cedar tree, 7in. diam. bears
S 70° W, 43 lks. dist. marked
T12S R4W S13 B T
A cedar tree 12 in. diam. bears
N 80° W, 55 lks. dist. marked
T12S R4W S12 B T
Land, gently rolling.
Soil, sandy loam, 6 to 20 in. deep, medium texture, dry; clay subsoil.
Timber, cedar.

Aug 1, 1911.

Aug. 2, 1911. At 8h 36m. a. m. l. m. t. I set off 39° 47' on the lat. arc; 17° 58' N on the decl. arc; & determine a meridian with the solar at the cor. of secs, 7, 12, 13 & 18, previously described.
Thence I run
North on retracement line bet. secs. 7 & 12.
Over gently rolling land through scattering cedar timber.

4.00 Draw, 25 ft. below cor. drains S 70° E.
6.15 Spur, 50 ft. above draw, proj. S 80° E.
17.20 Draw 75 ft. below spur drains S 80° E.
17.85 Road, Mud Spring to Tanner Creek, bears S 80° E & N 80° W.
34.00 Spur 75 ft. high proj. S 30° E.
40.54 Fall 1 lk East of 1/4 sec. cor. which is a cedar tree, very poorly marked.

I destroy all traces of the old cor. and re-establish it at same point as follows:
Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 12 on W half; S 7 on E half; from which
A cedar tree, 10 in. diam. bears
N 20° E, 70 lks. dist. marked
1/4 S 7 B T.

Retracement of East Boundary T12S R4W.

Chains	
	A cedar tree 18 in. diam. bears S50°W. 62 lks. dist. marked 1/4 S12 B.T
46.00	Draw 75 ft. below spur, drains S40°E.
62.25	Spur 90 ft. above draw, prog. S40°E.
78.00	Head of draw, 100 ft. below spur drains S80°E.
80.90	Intersect cor. of secs. 1, 6, 7 & 12 which is a limestone 8x7x5 in. above ground poorly marked and loosely set.
	I destroy all traces of old cor. and re-establish it at same point as follows: Set an iron post 3 ft. long, 3 in. diam. 24 in in ground for cor. of secs. 1, 6, 7 & 12 marked on brass cap
	T12S on N half
	R4W S1 in NW
	R3W S6 in NE
	S7 in SE
	S12 in SW, quadrant; from which
	A cedar tree 14 in. diam. bears N72°E, 3.43 chs. dist. marked T12S R3W S6 B.T
	A cedar tree 20 in. diam. bears S9°E. 4.58 chs. dist. marked T12S R3W S7 B.T
	A cedar tree 8 in. diam. bears S60°W, 7.25 chs. dist. marked T12S R4W S12 B.T
	A cedar tree 10 in. diam. bears N20°W, 98 lks. dist. marked T12S R4W S1 B.T
	Land, rolling.
	Soil, sandy loam, 8 to 16 in. deep, medium texture, dry, clay subsoil.
	Timber, cedar.
	North on retracement line bet. secs. 1 & 6. Over rolling land through scattering cedar.
7.50	Spur 60 ft. above cor. prog. S50°E.

Retracement of East Boundary, T12SR4W.

Chains	
18.00	Leave scattering cedar bears E & W.
24.40	Draw 50 ft. below spur drains S60°E.
28.75	Spur 40 ft. above draw prog. S70°E.
40.45	Intersect 1/4 sec. cor. which is a limestone 10x6x4 in. above ground poorly marked and loosely set.
	I destroy all traces of the old cor. and re-establish it at same point as follows: Set an iron post 3 ft. long, 1 in. diam: 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S1 on W half; S6 on E half; dig pits 18x18x12 in. N & S of post, 3 ft. dist; & raise a mound of earth 3/2 ft. base, 1/2 ft. high W of cor.
70.50	Wash 10 ft. deep, 10 lks. wide drains S40°E.
78.00	Enter cedar timber bears N40°W & S40°E.
81.06	Fall 1 lk. east of cor. of Tps. 11 & 12 S Rs 3 & 4 W which is a limestone, 10x10x5 in. above ground, badly broken and marks nearly obliterated.
	I destroy all traces of the old cor. and re-establish it at same point as follows: Set an iron post 3 ft. long, 3 in. diam. 24 in. in ground for cor. of Tps 11 & 12 S, Rs 3 & 4 W, marked on brass cap T11S on N half T12S on S half R4W S36 in NW R3W S31 in NE R3W S6 in SE R4W S1 in SW, quadrant; from which A cedar tree, 20 in. diam. bears N50°E, 15 lks. dist. marked T11S R3W S31 BT A cedar tree 18 in. diam. bears S12°E, 45 lks. dist. marked T12S R3W S6 BT A cedar tree, 16 in. diam. bears S32°W, 50 lks. dist. marked T12S R4W S1 BT A cedar tree, 12 in. diam. bears

Retracement of East Boundary T12 S R4 W.

Chains	R5°W, 17 lks. dist. marked T11 S R4 W S36 B.T. Land, rolling. Soil, sandy loam, 10 to 20 in. deep, medium texture, dry, clay subsoil. Timber, cedar. Aug. 2, 1911.

Retracement of part of South Bdy T12 S R 4 W.

Chains	
	Aug. 3, 1911. At 8 h. 06 m. a. m. l. m. t. I set off 39°43' on the lat. arc; 17°43' N on the decl. arc; & determine a meridian with the solar at the cor. of Tps. 12 & 13 S, Rs 3 & 4 W, previously described.
	Thence I run
	West on retracement line bet. secs. 1 & 36:
	Over bottom land through shadscale.
18.55	Leave shadscale; enter white sage bears N 10° E & S 10° W.
21.90	Road, Leamington to Silver City bears N 30° E & S 30° W.
35.30	Leave bottom; enter rolling land bears N 30° E & S 30° W.
40.16	Intersect 1/4 sec. cor. which is a quartzite stone 8 x 6 x 6 in. above ground, poorly marked & loosely set.
	I destroy all traces of the old cor. & re-establish it at same point as follows:
	Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 36 on N half; S 1 on S half; raise a mound of stone 2 ft. base, 1/2 ft. high, N of cor.
	Pits impracticable.
78.70	Wash 5 ft. deep 10 lks. wide, drains S.
80.30	Intersect cor. of secs. 1, 2, 35 & 36 which is a quartzite stone 9 x 8 x 8 in. above ground poorly marked & loosely set.
	I destroy all traces of the old cor. and re-establish it at same point as follows;
	Set an iron post 3 ft. long 3 in. diam. 24 in. in ground for cor. of secs. 1, 2, 35 & 36 marked on brass cap
	T 12 S S 35 in NW
	R 4 W S 36 in NE
	R 4 W S 1 in SE
	T 13 S S 2 in SW, quadrant; dig pits 18 x 18 x 12 in. in each sec. 5 1/2 ft. dist; & raise a mound of earth 4 ft. base, 2

Retracement of part of South Boundary T12S R4W

Chains	
	ft. high W of cor.
	E 35.30 chs. bottom land.
	Soil, clay loam, 6 to 18 in. deep, fine texture, dry, clay subsoil.
	W 45.00 chs. rolling land.
	Soil, sandy loam, 10 to 18 in. deep, medium texture, dry, gravel subsoil.
	No timber.
	West on retracement line bet. secs. 2 & 35.
	Over gently rolling land.
33.00	Enter scattering cedar timber bears N & S.
38.50	Top of spur 150 ft. above cor. proj. S 15° E.
40.17	Fall 1 lk. S. of 1/4 sec. cor. which is a quartzite stone 10 x 7 x 6 in. above ground poorly marked & loosely set.
	I destroy all traces of the old cor. and re-establish it at same point as follows: Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S35 on N half; S2 on S half; from which
	A cedar tree 11 in. diam. bears N 49° E. 73 lks. dist. marked 1/4 S 35 B T
	A cedar tree, 10 in. diam. bears S 60° 30' E, 1.09 chs dist. marked 1/4 S 2 B T
42.00	Leave scattering cedar bears N & S.
54.30	Road, Nephi to Cherry Creek bears N 30° W & S 30° E.
80.20	Intersect the cor. of secs. 2, 3, 34 & 35 which is a cedar post greatly decayed & marks nearly obliterated.
	I destroy all traces of the old cor. and re-establish it at same point as follows; Set an iron post 3 ft. long, 3 in. diam. 24 in. in ground for cor. of secs. 2, 3, 34 & 35 marked on brass cap
	T12S S34 in NW
	R4W S35 in NE
	R4W S2 in SE
	T13S S3 in SW, quadrant; dig pits 18 x 18 x 12 in. in each sec. 5½ ft. dist. or raise

South Boundary T 12 S R 4 W.

Chains	
	a mound of earth 4 ft. base, 2 ft. high W of cor. Land, gently rolling. Soil, sandy loam, 10 to 20 in. deep, fine texture, dry, clay subsoil.
	West on true line bet. secs. 3 & 34. Over gently rolling land through white sage.
4.00	Leave white sage: enter sagebrush bears N & S.
12.00	Spur 50 ft. above cor. proj. S.
15.20	Leave sagebrush: enter white sage bears N 10° W & S 10° E.
17.20	Wood road bears N 40° W & S 40° E.
29.50	Leave white sage: enter sagebrush bears N & S.
38.00	Leave sagebrush: enter white sage bears N & S.
40.00	Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 34 on N half; S 3 on S half; dig pits 18 x 18 x 12 in. E & W of post 3 ft. dist. & raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N of cor. Aug. 3, 1911. At this cor. I set off 17° 40' N on the decl. arc; and at 12 h 06 m. l. m. t. observe the sun on the meridian the resulting lat. is 39° 43'.
42.00	Leave white sage: enter sagebrush bears N & S.
46.00	Leave sagebrush: enter white sage bears N & S
51.80	Leave white sage: enter sagebrush bears N & S.
72.50	Leave sagebrush: enter white sage bears N & S
79.00	Leave white sage: enter sagebrush bears N & S.
80.00	Set an iron post 3 ft. long 3 in. diam. 24 in. in ground for cor. of secs. 3, 4, 33 & 34

South Boundary T12S R4W

Chains	marked on brass cap T12S S33 in NW R4W S34 in NE R4W S3 in SE T13S S4 in SW, quadrant; dig pits 18x18x12 in. in each sec. 5½ ft. dist; & raise a mound of earth 4 ft. base, 2 ft. high, W of cor. Land, gently rolling, S slope. Soil, good sandy loam 20 to 36 in. deep fine texture, dry, clay subsoil. No timber.
	Aug. 3, 1911. At 2 h 06 m. p. m. l. m. t. I set off 39° 43' on the lat. arc; 17° 39' on the decl. arc; & determine a meridian with the solar at the cor. of secs. 3, 4, 33 & 34. Thence I run West on a true line bet. secs. 4, & 33. Over gently rolling land through sage-brush.
15.00	Leave sagebrush: enter white sage bears N & S.
30.00	Swale 50 ft. below cor. drains S 40° W.
34.00	Leave white sage; enter sagebrush bears N 10° E & S 10° W.
40.00	Set an iron post 3 ft. long 1 in. diam. 26 in. in ground for ¼ sec. cor. marked on brass cap ¼ S33 on N half; S4 on S half; dig pits 18 x 18 x 12 in. E & W of post, 3 ft. dist; & raise a mound of earth 3½ ft. base, 1½ ft. high, N of cor.
73.00	Leave sagebrush: enter white sage flat bears N 30° W & S 30° E.
80.00	Set an iron post 3 ft. long, 3 in. diam. 24 in. in ground for cor. of secs. 4, 5, 32 & 33 marked on brass cap T12S S32 in NW R4W S33 in NE R4W S4 in SE T13S S5 in SW, quadrant; dig pits 18 x 18 x 12 in. in each sec. 5½ ft. dist; & raise a

South Boundary T12S R4W

Chains	
	mound of earth 4 ft. base, 2 ft. high W of cor.
	Land, gently rolling, SW slope.
	Soil, good brown sandy loam 2 to 3 ft. deep, fine texture, dry, clay subsoil.
	No timber.
	West on true line bet. secs. 5 & 32.
	Over level land through white sage.
3.50	Jericho Wash 6 ft. deep, 30 lks. wide drains S10° W.
22.10	Road, Leamington to Cherry Creek bears N30° E & S30° W.
28.00	Leave white sage: enter sagebrush bears N55° E, & S55° W.
28.70	Wash 3 ft. deep, 10 lks. wide drains S50° W.
29.00	Leave level: enter gently rolling land bears N50° E & S50° W.
40.00	Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S32 on N half; S5 on S half; dig pits 18x18x12 in. E & W of post, 3 ft. dist; & raise a mound of earth 3½ ft. base, 1½ ft. high N of cor.
53.00	Leave sagebrush: enter drifting sand and scattering greasewood bears N30° E & S30° W.
80.00	Set an iron post 3 ft. long, 3 in. diam. 24 in. in ground for cor. of secs. 5, 6, 31 & 32, marked on brass cap
	T12S S31 in NW
	R4W S32 in NE
	R4W S5 in SE
	T13S S6 in SW, quadrant; from which
	A cedar tree, 15 in. diam. bears
	N20° E, 9.50 chs. dist. marked
	T12S R4W S32 B T
	A cedar tree, 16 in. diam. bears
	S88° W, 3.45 chs. dist. marked
	T13S R4W S6 B T
	A cedar tree, 12 in. diam. bears
	N8° 15' W, 2.40 chs. dist. marked

South Boundary T12S R4W.

Chains	
	T12S R4W S31 B.T.
	No other trees in limits: Dig pits 18x18x12 in. in each sec. 5½ ft. dist; & raise a mound of earth 4 ft. base, 2 ft. high, W of cor.
	E 29.00 chs. level white sage flat.
	Soil, good brown sandy loam 4 to 10 ft. deep, fine texture, dry. clay subsoil.
	W 51.00 chs. gently rolling land S slope.
	Soil, sandy loam 3 to 6 ft. deep, fine texture, dry, clay subsoil.
	No timber.
	Aug. 3, 1911.
	Aug. 5, 1911. At gh 3 h 6 m. a. m. l. m. t. I set off 39° 43' on the lat. arc; 17° 11' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 5, 6, 31 & 32.
	Thence I run
	West on a true line bet. secs. 6 & 31.
	Over gently rolling land through scattering greasewood.
0.50	Enter scattering cedar timber bears N 20° E & S 20° W.
4.00	Leave scattering cedar & greasewood: enter barren drifting sand hills bears N 50° E & S 50° W.
40.00	Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for ¼ sec. cor. marked on brass cap ¼ S 31 on N half; S 6 on S half; dig pits 18 x 18 x 12 in. E & W of post, 3 ft. dist; & raise a mound of earth 3½ ft. base, 1½ ft. high N of cor.
80.00	Set temp. cor. for Tps. 12 & 13 S R 4 W & R 5 W.
	E 4.00 chs. rolling land, covered with a scattering growth of cedar timber and greasewood.
	Soil, sandy loam 3 to 6 ft. deep, fine texture, dry; clay subsoil.
	Bal. of line, barren drifting sand hills.
	This cor. afterward made permanent at
85.90	(See survey of N. Bdy.)

West Boundary T12S R4W

Aug, 5, 1911.
From the temp. cor. of Tps. 12 & 13 S Rs 4 & 5 W, I run
North on random line along W. bdy of T12S R4W, setting temp. 1/4 sec. & sec. cors. at intervals of 40.00 chs. and at 162.20 chs. fall 5.90 chs. E of cor. of secs. 19, 24, 25 & 30 which is a quartzite stone 7x7x6 in. above ground, poorly marked & loosely set.
I destroy all traces of the old cor. and re-establish it at same point as follows:
Set an iron post 3 ft. long, 3 in. diam. 24 in. in ground for cor. of secs. 19, 24, 25 & 30 marked on brass cap
T12S on N half
R5W S24 in NW
R4W S19 in NE
S30 in SE
S25 in SW, quadrant; from which
A cedar tree 15 in. diam. bears
N 20° E, 97 lks. dist. marked
T12S R4W S19 BT
A cedar tree 20 in. diam. bears
S 60° E, 80 lks. dist. marked
T12S R4W S30 BT
A cedar tree, 10 in. diam. bears
S 61° W, 64 lks. dist. marked
T12S R5W S25 BT
A cedar tree, 16 in. diam. bears
N 39° W, 49 lks. dist. marked
T12S R5W S24 BT
Aug. 5, 1911

Aug. 10, 1911. At 2 h 05 m. p. m. l. m. t. I set off 39° 45' on the lat. arc; 15° 44' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 19, 24, 25 & 30 previously described.
I abandon random line & run
South on true line bet. secs. 25 & 30,

West Boundary T 12 S R 4 W.

Over rolling sandy hills through scrubby cedar timber.

12.00 Small draw 40 ft. below cor. drains S 45° W

43.20 Set an iron post 3 ft. long, 1 in. diam. 28 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 25 on W half, S 30 on E half; from which

A cedar tree, 10 in. diam. bears N 56° 30' E, 1.07 chs. dist. marked 1/4 S 30 B T

A cedar tree, 16 in. diam. bears N 68° W, 58 lks. dist. marked 1/4 S 25 B T

52.00 Leave cedar timber: enter scattering sagebrush & greasewood bears E & W.

82.20 Set an iron post 3 ft. long, 3 in. diam. 24 in. in ground for cor. of secs. 25, 30, 31 & 36 marked on brass cap

T 12 S on N half

R 5 W S 25 in NW

R 4 W S 30 in NE

S 31 in S 6

S 36 in SW, quadrant, from which

A lone cedar tree, 6 in. diam. bears S 60° W, 7.00 chs. dist. marked T 12 S R 5 W S 36 B T

No other trees in limits: Dig pits 18 in. x 12 in. in each sec. 5½ ft. dist; & raise a mound of earth 4 ft. base, 2 ft. high. W of cor.

Land, gently rolling SW slope.

Soil: sand 12 in. to 3 ft. deep, medium texture, dry, clay & sand subsoil.

Timber, cedar.

South on true line bet. secs. 31 & 36.

Over sand hills through scattering sagebrush & greasewood.

30.00 Leave scattering sagebrush & greasewood enter drifting sand hills, bears E & W.

40.00 Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass

West Boundary T12S R4W

cap 1/4 S36 on W half; S31 on E half; dig pits 18x18x12 in. N & S of post, 3 ft. dist; & raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W of cor.

80.00 Intersect S. bdy. of Tp. 5.90 chs. W of temp. cor. of Tps. 12 & 13 S, Rs 4 & 5 W, previously set. I destroy all traces of temp. cor. and at my intersection:

Set an iron post 3 ft. long, 3 in. diam. 24 in. in ground for cor. of Tps. 12 & 13 S, Rs 4 & 5 W, marked on brass cap

T12S on N half
T13S on S half
R5W S36 in NW
R4W S31 in NE
R4W S6 in SE
R5W S1 in SW quadrant; dig pits 24x24x12 in. on each line, N, E, & W 4 ft. & S of post 8 ft. dist; & raise a mound of earth 5 ft. base 2 1/2 ft. high, S of cor.

Land, gently rolling sand hills.
Soil on N 30.00 chs. sand (sand hills)
S 50.00 chs. drifting sand.
No timber.

Aug 10, 1911.

Aug. 8, 1911. At 2 h 36 m. p. m. l. m. t. I set off 39° 48' on the lat. arc; 16° 18' N on the decl. arc; & determine a meridian with the solar at the cor. of Tps. 11 & 12 S, Rs 4 & 5 W, previously set.

Thence I run:

South on retracement line bet. secs. 1 & 6

40.00 After diligent search find no trace of 1/4 sec. cor.

80.00 After diligent search find no trace of cor. of secs. 1, 6, 7 & 12.

Aug. 8, 1911.

Retracement of part of West Bdy. T12S R4W.

Aug. 9, 1911.
South on retracement line bet. secs. 7 & 12.
40.00 After diligent search find no trace of 1/4 sec. cor.
86.80 Fall 30 lks. W. of cor. of secs. 7, 12, 13 & 18 which is a quartzite stone 16x16x10 in. loosely set, plainly marked; but not witnessed. I destroy all traces of the old cor. and re-establish it at same point as follows: Set an iron post 3 ft. long, 3 in. diam, 24 in. in ground for cor. of secs. 7, 12, 13 & 18 marked on brass cap
T12S on N half
R5W S12 in NW
R4W S7 in NE
S18 in SE
S13 in SW, quadrant; from which
A cedar tree, 8 in. diam. bears
N32°E, 40 lks. dist. marked
T12S R4W S7 BT
A cedar tree, 10 in. diam. bears
S50°E, 22 lks. dist. marked
T12S R4W S18 BT
A cedar tree 6 in. diam. bears
S39°W, 51 lks. dist. marked
T12S R5W S13 BT
A cedar tree, 10 in. diam. bears
N28°W, 25 lks. dist. marked
T12S R5W S12 BT
Therefore the course of this line is S0°06'E.
Aug 9, 1911. At 9h 35m a. m. l. m. t. I set off 39°47' on the lat. arc; 16°04' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 7, 12, 13 & 18.
Thence I run
N0°06'W on resurvey line bet. secs. 7 & 12.
Over rolling mountainous land through scrubby cedar timber, descend.
4.00 Draw 90 ft. below cor. draws S80°W.
9.75 Spur 150 ft. above draw prog. S80°W.

Retracement of part of West Bdy. T12S R4W.

13.80 Draw 125 ft. below spur drains S 80° W.
17.80 West end of spur 75 ft. above draw proj. S 70° W.
29.80 Draw 200 ft. below spur drains S 80° W.
38.00 Wash 4 ft. deep, 30 lks. wide drains SW.
41.70 Proportional dist. for 1/4 sec. cor. Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap. 1/4 S 12 on W half; S 7 on E half; from which
A cedar tree 6 in. diam. bears N 50° E, 69 lks. dist. marked 1/4 S 7 B T
A cedar tree 10 in. diam. bears N 70° 30' W, 3.00 chs. dist. marked 1/4 S 12 B T
78.60 Spur 200 ft. above cor. proj. S 60° W.
83.20 Draw 100 ft. below spur drains S 60° W.
83.40 Set an iron post 3 ft. long, 3 in. diam. 24 in. in ground for cor. of secs. 1, 6, 7 & 12 marked on brass cap
T12S on N half
R5W S1 in NW
R4W S6 in NE
S7 in SE
S12 in SW, quadrant; from which
A cedar tree, 10 in. diam. bears N 30° E, 58 lks. dist. marked T12S R4W S6 B T
A cedar tree, 12 in. diam. bears S 50° E, 60 lks. dist. marked T12S R4W S7 B T
A cedar tree 24 in. diam. bears S 24° W, 1.05 chs. dist. marked T12S R5W S12 B T
A cedar tree 16 in. diam. bears N 26° W 1.14 chs. dist. marked T12S R5W S1 B T

Land, rolling mountainous.
Ridges & slopes, light poor sandy soil with some gravel; valleys, good brown

Retracement of part of West Bdy. T12S R4W.

sandy loam, drains SW; subsoil, clay & gravel.
Timber, cedar.

N 0°06' W on resurvey line bet. secs. 1 & 6
Over rolling hilly land through cedar timber, ascend.

4.00 Spur 90 ft. above cor. proj. S 40° W.
5.90 Wood road bears N 60° E & S 60° W.
12.90 Draw 75 ft. below spur drains S 40° W
16.50 Spur 60 ft. above draw proj. S 30° W.
28.90 Draw 100 ft. below spur drains S 30° W.
40.00 Spur 70 ft. above draw proj. S 35° W.
41.70 Proportional dist. for 1/4 sec. cor. Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 1 on W half; S 6 on E half; from which
A cedar tree 6 in. diam. bears N 39° E, 39 lks. dist. marked 1/4 S 6 B T
A cedar tree 6 in. diam. bears S 30° W, 55 lks. dist. marked 1/4 S 1 B T
Aug. 9, 1911. At this cor. I set off 16° 02' N on the decl. arc; & at 12h 06m, l. m. t. observe the sun on the meridian, the resulting lat. is 39° 49'.
43.30 Draw 50 ft. below spur (wash in bottom 6 ft. deep, 30 lks. wide) drains S 30° W.
48.20 Wood road bears E & W.
49.90 Spur 75 ft. above draw proj. S 40° W.
54.70 Draw, 60 ft. below spur drains S 40° W.
63.90 Spur, 75 ft. above draw proj. S 40° W.
69.00 Draw, 50 ft. below spur drains S 40° W.
69.10 Wood road, bears S 45° W & N 45° E.
74.50 Spur, 60 ft. above draw, proj. S 30° W.
78.25 Draw, 50 ft. below spur, drains S 30° W.
83.40 The cor. of Tps. 11 & 12 S, Rs 4 & 5 W, previously described.
Land, rolling & hilly.

Retracement of part of West Bdy T12S R4W.

Ridges & slopes, light sandy loam with some gravel; valleys, good brown clay loam; clay & gravel subsoil.
Timber, cedar.

Aug. 9, 1911. At 4 h 05 m. p. m. l. m. t. I set off 39° 47' on the lat. arc; 16° 00' N on the decl. arc; & determine a meridian with the polar at the cor of secs. 7, 12, 13 & 18.
Thence I run
South on retracement line bet. secs. 13 & 18.
Over rolling mountainous land through scrubby cedar timber.

3.50	Spur, 120 ft. above cor. prog. West.
9.50	Draw, 250 ft. below spur drains West.
16.50	Spur, 225 ft. above draw prog. West.
22.00	Draw, 210 ft. below spur drains West.
28.00	Spur, 200 ft. above draw prog. West.
40.34	Fall 5 lks. west of 1/4 sec. cor. which is a porphyry stone 12 x 6 x 5 in. dimly marked & loosely set.

I destroy all traces of the old cor. and re-establish it at same point as follows: Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground, for 1/4 sec. cor. marked on brass cap 1/4 S13 on W half; S18 on E half; from which

A cedar tree, 6 in. diam. bears S 75° E. 9 lks. dist. marked 1/4 S18 B T

A cedar tree, 6 in. diam. bears S 80° W. 14 lks. dist. marked 1/4 S13 B T

40.50	Draw 250 ft. below spur drains S 20° W.
49.25	Spur 175 ft. above draw prog. S 20° W.
54.25	Draw 150 ft. below spur drains S 25° W.
57.25	Spur 115 ft. above draw prog. S 25° W.
62.50	Draw 100 ft. below spur drains S 20° W.
77.40	Road, Nephi to Cherry Creek bears N 80° W & S 80° E.

Retracement of part of West Bdy. T12S R4W

78.00 80.67		Wood road bears N 50° E & S 50° W. Fall 10 lks. west of cor. of secs. 13, 18, 19 & 24 which is a sandstone 10x10x6 in above ground, poorly marked & loosely set. I destroy all traces of the old cor. and re-establish it at same point as follows: Set an iron post 3 ft. long, 3 in. diam. 24 in. in ground for cor. of secs. 13, 18, 19 & 24 marked on brass cap T12S on N half R5W S13 in NW R4W S18 in NE S19 in SE S24 in SW, quadrant; from which A cedar tree, 10 in. diam. bears N 35° E, 25 lks. dist. marked T12S R4W S18 B T A cedar tree, 10 in. diam. bears S 40° E, 35 lks. dist. marked T12S R4W S19 B T A cedar tree, 10 in. diam. bears S 35° W, 16 lks. dist. marked T12S R5W S24 B T A cedar tree, 10 in. diam. bears N 27° W, 21 lks. dist. marked T12S R5W S13 B T Therefore the course of this mile is S 0° 04' E. Land, rolling & mountainous. Ridges & slopes, light drifting sand on gravel & stone base; valleys, drifted sand on clay subsoil. Timber, cedar. Aug. 9, 1911.
		Aug 10, 1911. At 10 h 05 m. a. m. l. m. t. I set off 39° 46' on the lat. arc; 15° 46' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 13, 18 19 & 24. Thence I run

Retracement of part of West Bdy. T12S R4W.

South on retracement line bet. secs. 19 & 24.
Over rolling sandy land through cedar timber.

5.00 Spur 75 ft. above cor. prog. S 30° W.
28.00 Draw 200 ft. below spur drains S 30° W.
34.00 Spur 75 ft. above draw prog. S 30° W.
40.00 Fall 5 lks. west of 1/4 sec. cor. which is a limestone 10 x 6 x 6. dimly marked and loosely set and not witnessed.
I destroy all traces of the old cor. and re-establish it at same point as follows:
Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 24 on W half; S 19 on E half; from which
A cedar tree, 6 in. diam. bears S 81° E. 1.29 chs. dist. marked 1/4 S 19 B T
A cedar tree 12 in. diam. bears S 53° W. 80 lks. dist. marked 1/4 S 24 B T
41.00 Draw 100 ft. below spur drains S 30° W.
80.00 Fall 10 lks. west of cor. of secs. 19, 24, 25 & 30 previously described.
Therefore the course of this line is S 0° 04' E.
Land, rolling & hilly.
Ridges & slopes, light-drifting sand on stony base.
Valleys, drifted sand on clay subsoil, dry.
Timber, cedar.

Aug. 10, 1911.

Retracement & Resurvey of North Bdy. T12S R4W.

	Aug. 2, 1911. At 2 h 36 m. p. m. l. m. t. I set off 39° 49' on the lat. arc; 17° 54' N on the decl. arc; & determine a meridian with the solar at the cor. of Tps. 11 & 12 S, Rs 3 & 4 W, previously described.
	Thence I run
	West on retracement line on N bdy of sec 1 of T12 S R4 W.
	Over gently rolling land through cedar timber.
1.00	Leave cedar timber, bears N 40° W & S 40° E.
9.50	Wash 12 ft. deep, 1.00 ch. wide drains S 25° E.
35.00	Point of low spur, 25 ft. high, proj. S 45° E.
38.75	Wash 8 ft. deep, 20 lks. wide, drains S 80° E.
40.03	Intersect 1/4 sec. cor. which is a sandstone 10 x 7 x 3 in. above ground, badly decomposed, marks nearly obliterated.
	I destroy all traces of the old cor. and re-establish it at same point as follows: Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 36 on N half; S 1 on S half; dig pits 18 x 18 x 12 in. E & W of post, 3 ft. dist; & raise a mound of earth 3 1/2 ft. base, 1/2 ft. high, N of cor.
56.00	Enter cedar timber bears N 80° W & S 80° E.
80.15	Intersect cor. of secs. 1, 2, 35 & 36 which is a limestone 10 x 10 x 6 in. above ground, plainly marked, loosely set, and not witnessed.
	I destroy all traces of the old cor. and re-establish it at same point as follows: Set an iron post 3 ft. long, 3 in. diam. 24 in. in ground for cor. of secs. 1, 2, 35 & 36 marked on brass cap
	T 11 S S 35 in NW
	R 4 W S 36 in NE
	R 4 W S 1 in SE
	T 12 S S 2 in SW, quadrant; from which
	A cedar tree 15 in. diam. bears

Retracement & Resurvey of North Bdy. T12S R4

N 40° E, 75 lks. dist. marked
T11S R4W S36 B J
A cedar tree 10 in. diam. bears
S 50° E, 99 lks. dist. marked
T12S R4W S1 B J
A cedar tree, 12 in. diam. bears
S 65° W, 48 lks. dist. marked
T12S R4W S2 B J
A cedar tree, 18 in. diam. bears
N 40° W, 80 lks. dist. marked
T11S R4W S35 B J
Land, gently rolling.
Soil, brown clay loam, 4 in. to 3 ft. deep medium texture, dry, clay & gravel subsoil.
Timber, cedar.

Aug. 2, 1911.

Aug 4, 1911. At 10 h. 06 m. a. m. l. m. t. I set off 39° 49' on the lat. arc; 17° 26' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 1, 2, 35 & 36 on N. bdy. of Tp.
Thence I run
West on retracement line bet. secs. 2 & 35.
40.00 After diligent search find no trace of 1/4 sec. cor.
80.00 After diligent search find no trace of cor. of secs. 2, 3, 34 & 35.

West on retracement line bet. secs. 3 & 34.
40.00 After diligent search find no trace of 1/4 sec. cor.
80.00 After diligent search find no trace of cor. of secs. 3, 4, 33 & 34.

Aug 4, 1911.

Aug 7, 1911.
West on retracement line bet. secs. 4 & 33.
40.00 After diligent search find no trace of 1/4 sec. cor.

Retracement & Resurvey of North Bdy T12S R4W

80.00	After diligent search find no trace of cor. of secs. 4, 5, 32 & 33.	
	West on retracement line bet. secs. 5 & 32.	
40.00	After diligent search find no trace of 1/4 sec. cor.	
80.00	After diligent search find no trace of cor. of secs. 5, 6, 31 & 32.	
	Aug. 7, 1911.	
	Aug. 8, 1911.	
	West on retracement line bet. secs. 6 & 31.	
40.00	After diligent search find no trace of 1/4 sec. cor.	
86.74	Intersect W. bdy. of Tp 3.91 chs. S of cor. of Tps. 11 & 12 S, Rs 4 & 5 W, which is a white quartz stone 12 x 12 x 10 in. above ground dimly marked & loosely set.	
	I destroy all traces of the old cor. and re establish it at same point as follows: Set an iron post 3 ft. long, 3 in. diam. 24 in. in ground for cor. of Tps. 11 & 12 S Rs 4 & 5 W, marked on brass cap	
	T11S on N half	
	T12S on S half	
	R5W S36 in NW	
	R4W S31 in NE	
	R4W S6 in SE	
	R5W S1 in SW, quadrant; from which	
	A cedar tree, 8 in. diam. bears	
	N11° E, 92 lks. dist. marked	
	T11S R4W S31 BT	
	A cedar tree 5 in. diam. bears	
	S52° E, 52 lks. dist. marked	
	T12S R4W S6 BT	
	A cedar tree, 6 in. diam. bears	
	S9° W, 28 lks. dist. marked	
	T12S R5W S1 BT	
	A cedar tree 8 in. diam. bears	
	S83° 30' W, 44 lks. dist. marked	

Retracement & Resurvey of North Bdy T12S R4W

T11S R5W S36 BT
Therefore the course of this line from cor of secs. 1, 2, 35 & 36 to cor. of Tps. 11 & 12 S Rs 4 & 5 W is N 89° 27' W, distance 5 miles 6.75 chs.
Note: On account of Tp 11 S R4 W being subdivided & this boundary being unchangeable I set 1/4 & sec. cor. at proportional intervals of 40.67 1/2 and 81.35 respectively, on true line bet. the cor. of Tps. 11 & 12 S, Rs 4 & 5 W, and cor. of secs. 1, 2, 35 & 36.

Aug. 8, 1911.

Aug 11, 1911. At 8 h 05 m. a. m. l. m. t. I set off 39° 49' on the lat. arc; 15° 31' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 1, 2, 35 & 36 on N. bdy. of Tp. cor. previously described. Thence I run
N 89° 27' W on resurvey line bet. secs. 2 & 35. Over stony rolling land through thick scrubby cedar timber, ascend gently.
38.40 Road, Mud Spring to Silver City bears N 30° E & S 30° W.
40.67 1/2 Set an iron post 3 ft. long, 1 in. diam. 26 in in ground for 1/4 sec. cor. marked on brass cap 1/4 S 35 on N half; S 2 on S half; from which
A cedar tree 5 in. diam. bears S 21° 30' E, 35 lks. dist. marked 1/4 S 2 B T
A cedar tree, 24 in. diam. bears N 9° 45' W, 65 lks. dist. marked 1/4 S 35 B T
51.00 Leave thick: enter scattering cedar timber and sagebrush bears N 40° W & S 40° E.
52.00 Spur 120 ft. above 1/4 sec. cor. proj. S 80° E.
75.30 Wash 4 ft. deep, 30 lks. wide drains S 60° E.
81.35 Set an iron post 3 ft. long, 3 in. diam. 24 in. in ground for cor. of secs. 2, 3, 34 & 35

Retracement & Resurvey of North Bdy. T12S R4W.

		marked on brass cap T11S S34 in NW R4W S35 in NE R4W S2 in SE T12S S3 in SW, quadrant; from which A cedar tree, 7 in. diam. bears N 41° 20' E, 35 lks. dist. marked T11S R4W S35 B T A cedar tree, 12 in. diam. bears S 51° E, 75 lks. dist. marked T12S R4W S2 B T A cedar tree 8 in. diam. bears S 63° W, 60 lks. dist. marked T12S R4W S3 B T A cedar tree 7 in. diam. bears N 46° W, 63 lks. dist. marked T11S R4W S34 B T Land, rolling. Soil on E. 60.00 chs. sandy with some stones, clay subsoil. W 20.00 chs. good brown clay loam 6 to 14 in. deep, fine texture, dry, clay subsoil. Timber, cedar; undergrowth, sagebrush.
		N 89° 27' W on resurvey line bet. secs. 3 & 34. Over rolling land through scattering cedar timber & sagebrush.
	2.00	Leave scattering cedar timber and sagebrush; enter heavy cedar bears N 40° W & S 40° E.
	9.00	Leave heavy cedar; enter sagebrush bears N 40° W & S 40° E.
	20.00	Leave sagebrush; enter heavy cedar bears N 40° W & S 40° E.
	29.00	Spur, 75 ft. high prog. S 40° E.
	37.00	Hollow 70 ft. below spur drains S 40° E.
	40.67½	Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S34 on N half; S3 on S half; from which A cedar tree 15 in. diam. bears

Retracement & Resurvey of North Bdy. T12S R4W.

S 25°20' E, 46 lks. dist. marked
1/4 S3 B.T
A cedar tree, 18 in. diam. bears
N 48°20' W, 59 lks. dist. marked
1/4 S34 B.T.
Aug. 11, 1911. At this cor. I set off 15°27' N on the decl. arc; and at 12 h 05 m. p.m. l. m. t. observe the sun on the meridian the resulting lat. is 39°49'.
46.75 Spur 70 ft. above draw proj. S40° E.
75.80 Draw, 90 ft. below spur drains S 60° E.
81.35 Set an iron post, 3 ft. long, 3 in. diam. 24 in. in ground for cor. of secs. 3, 4, 33 & 34 marked on brass cap
T11 S S33 in NW
R4W S34 in NE
R4W S3 in SE
T12S S4 in SW, quadrant; from which
A cedar tree 6 in. diam. bears
N 84°16' E, 26 lks. dist. marked
T11S R4W S34. B.T
A cedar tree 16 in. diam. bears
S 70° E, 85 lks. dist. marked
T12S R4W S3 B.T
A cedar tree, 8 in. diam. bears
S 30° W, 62 lks. dist. marked
T12S R4W S4 B.T
A cedar tree, 6 in. diam. bears
N 49°20' W, 20 lks. dist. marked
T11S R4W S33 B.T
Land, rolling, SE slope.
Soil, good brown clay loam 6 to 20 in. deep, fine texture, dry, clay subsoil.
Timber, cedar.

Aug 11, 1911. At 2 h 05 m. p. m. l. m. t. I set off 39°49' on the lat. arc; 15°26' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 3, 4, 33 & 34.
Thence I run

Retracement & Resurvey of North Bdy. T12S R4W.

	N 89°27' W on resurvey line bet secs. 4 & 33. Over rolling mountainous land, through cedar timber.
16.00	Spur 75 ft. above cor. prog. S 20° E. enter stony land.
19.00	Draw 90 ft. below spur drains S 10° E.
22.50	Spur 50 ft above draw prog. S 30° E.
30.00	Draw 70 ft. below spur drains S 30° E.
34.00	Spur 75 ft. above draw prog. S 30° E.
40.67½	Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for 1/4 sec. cor. marked on brass cap 1/4 S 33 on N half; S 4 on S. half; from which
	A cedar tree 7 in. diam. bears N 42°15' E, 2.20 chs. dist. marked 1/4 S 33 B T
	A cedar tree 5 in. diam. bears S 38°41' E, 1.30 chs. dist. marked 1/4 S 4 B T
43.50	Draw 100 ft. below spur drains S 70° E.
60.50	Spur 200 ft. above draw prog. S 70° E
80.00	Head of draw 100 ft. below spur drains S 70° E.
81.35	Set an iron post 3 ft. long, 3 in diam. 24 in. in ground for cor. of secs. 4, 5, 32 & 33 marked on brass cap
	T 11 S S 32 in NW
	R 4 W S 33 in NE
	R 4 W S 4 in SE
	T 12 S S 5 in SW, quadrant; from which
	A cedar tree 24 in. diam. bears N 65° E, 30 lks. dist. marked T 11 S R 4 W S 33 B T
	A cedar tree, 16 in. diam. bears S 20° E, 25 lks. dist. marked T 12 S R 4 W S 4 B T
	A cedar tree 10 in. diam. bears S 40° W, 30 lks. dist. marked T 12 S R 4 W S 5 B T
	A cedar tree, 16 in. diam. bears N 73° W, 38 lks. dist. marked T 11 S R 4 W S 32 B T

Retracement & Resurvey of North Bdy. T128 R4W

Land, rolling mountainous.
E. 16.00 chs. good clay loam 4 to 12 in. deep fine texture, dry, clay & gravel subsoil.
W 65.35 chs. broken & hilly.
Ridges & slopes, light poor sandy loam with stones & gravel; valleys, good sandy loam with some gravel; subsoil, gravel.
Timber, cedar.

Aug. 11, 1911.

Aug. 12, 1911. At 8 h. 35 m. a.m. l. m. t. I set off 39°49' on the lat. arc; 15°13' N on the decl. arc; & determine a meridian with the solar at the cor. of secs. 4, 5, 32 & 33.
Thence I run
N 89°27' W on resurvey line bet. secs. 5 & 32.
Over stony mountainous land through cedar timber, ascend.

22.00 Spur, 400 ft. above cor. proj. S 20° E.
35.50 Draw 300 ft. below spur, drains S 40° E.
40.67½ Set an iron post, 3 ft. long, 1 in. diam. 26 in. in ground for ¼ sec. cor. marked on brass cap ¼ S 32 on N half; S 5 on S half; from which
A cedar tree, 18 in. diam. bears S 33° E, 24 lks. dist. marked ¼ S 5 B T
A cedar tree, 36 in. diam. bears N 15° W, 1.66 chs. dist. marked ¼ S 32 B T
56.00 Ridge, 350 ft. above draw, bears N 10° W & S 10° E.
62.25 Head of draw 150 ft. below ridge drains S 40° W.
72.75 Point of rocks 100 ft. above draw proj. S 45° W.
79.75 Draw 200 ft. below point of rocks drains S 45° W.
81.35 Set an iron post 3 ft. long, 3 in. diam. 24 in. in ground for cor. of secs. 5, 6, 31 & 32 marked on brass cap
T 11 S S 31 in NW

Retracement & Resurvey of North Bdy. T12S R4W

R4W S32 in NE
R4W S5 in SE
T12S S6 in SW, quadrant; from which
A cedar tree 10 in. diam. bears
N 40° E, 20 lks. dist. marked
T11 S. R4W S32 B T
A cedar tree, 10 in. diam. bears
S 36° E, 50 lks. dist. marked
T12S R4W S5 B T
A cedar tree 8 in. diam. bears
S 47° W, 62 lks. dist. marked
T12S R4W, S6 B T
A cedar tree, 6 in. diam. bears
N 29° W, 71 lks. dist. marked
T11S R4W S31 B T
Land, broken stony mountainous.
Soil, light poor sandy loam, stony and gravelly.
Timber, cedar.
Aug. 12, 1911. At this cor. I set off 15°10' N on the decl. arc; and at 12 h 05 m p.m. l. m. t. observe the sun on the meridian the resulting lat. is 39°49'.

N 89°27' W on resurvey line bet. secs. 6 & 31.
Over broken stony mountainous land through cedar timber.

3.25	Spur 75 ft. above cor. proj. S, 10° W.
8.90	Draw 150 ft. below spur drains S.
17.25	Spur, 170 ft. above draw proj. S.
21.60	Draw 100 ft. below spur drains S.
29.00	Spur 175 ft. above draw proj. S.
36.25	Draw 200 ft. below spur drains S.
40.67½	Set an iron post 3 ft. long, 1 in. diam. 26 in. in ground for ¼ sec. cor. marked on brass cap ¼ S 31 on N half; S6 on S half; from which

A cedar tree, 6 in. diam. bears
N 29° E, 31 lks. dist. marked
¼ S31 B T

Retracement & Resurvey of North Bdy T12S R4W.

	Cedar tree 10 in. diam. bears S18°E. 19 lks. dist. marked 1/4 S6 BT
41.25	Spur 180 ft. above draw proj. S.
53.75	Draw 400 ft. below spur drains S30°W.
67.00	Spur 100 ft. above draw proj. S45°W.
76.25	Draw 75 ft. below spur drains S45°W.
79.25	Spur 60 ft. above draw proj. S45°W.
81.35	The cor. of Tps. 11 & 12 S R's 4 & 5 W previously described.
	Land, broken & hilly.
	Soil, light poor sandy loam with gravel and limestone; limestone base.
	Timber, cedar.
	Aug. 12, 1911.

Latitudes, Departures & Closing Errors.

ne designated	True bearing	Distance	Latitudes N	Latitudes S	Departu E	Departu W
3. Bdy. T12S R4W	West	486.40				486.
W. Bdy. secs. 30 & 31	North	162.20	162.20			
W. Bdy secs. 18 & 19	N0°04'W	160.67	160.67			
W. Bdy secs. 6 & 7	N0°06'W	166.80	166.80			
W. Bdy. secs. 2, 3, 4, 5 & 6	S89°27'E	406.75		3.90	406.73	
W. Bdy. sec. 1.	East	80.15			80.15	
. Bdy. T12S R4W	South	485.36		485.36		
Convergency					.61	
			489.67	489.26	487.49	486.
			489.26		486.88	
		Error in Lat.	.41		.61	Error in

John W. Dougall
U. S. Transitman.

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BOOK A-380

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, ..., U. S. Surveyor, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of .....

For certificate of Assistants see book "F" T.13 S., R.4 W.

of the ..... Meridian, in the State of ..... which are represented in the foregoing field notes as having been executed 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 executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	

Subscribed and certified to before me on the dates of the final service as shown above.

.....

U. S. Surveyor.

FINAL OATH OF UNITED STATES SURVEYOR.

I, ..., U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for ..... bearing date of the ..... day of ....., 191 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

For final oath of transitman see book "F" T.13 S., R.4 W.

..... of the ..... Meridian, in the State of ....., which are represented in the foregoing field notes as having been executed 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 U. S. 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.

.....
U. S. Surveyor.

Subscribed by said ....., and sworn to before me this ..... day of ....., 191

SEAL

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 30, 191 3

The foregoing field notes of the ~~xxxxxxx~~ retracement of East, retracement and survey of South; retracement and survey of West; and retracement and survey of North boundaries of Township No.12 South, Range No.4 West, the Salt Lake Base and Meridian, Utah,

executed by John W.Dougall under his special instructions dated March 27, 191 1, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Kell
U. S. 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

.....
U. S. Surveyor General

6—2761