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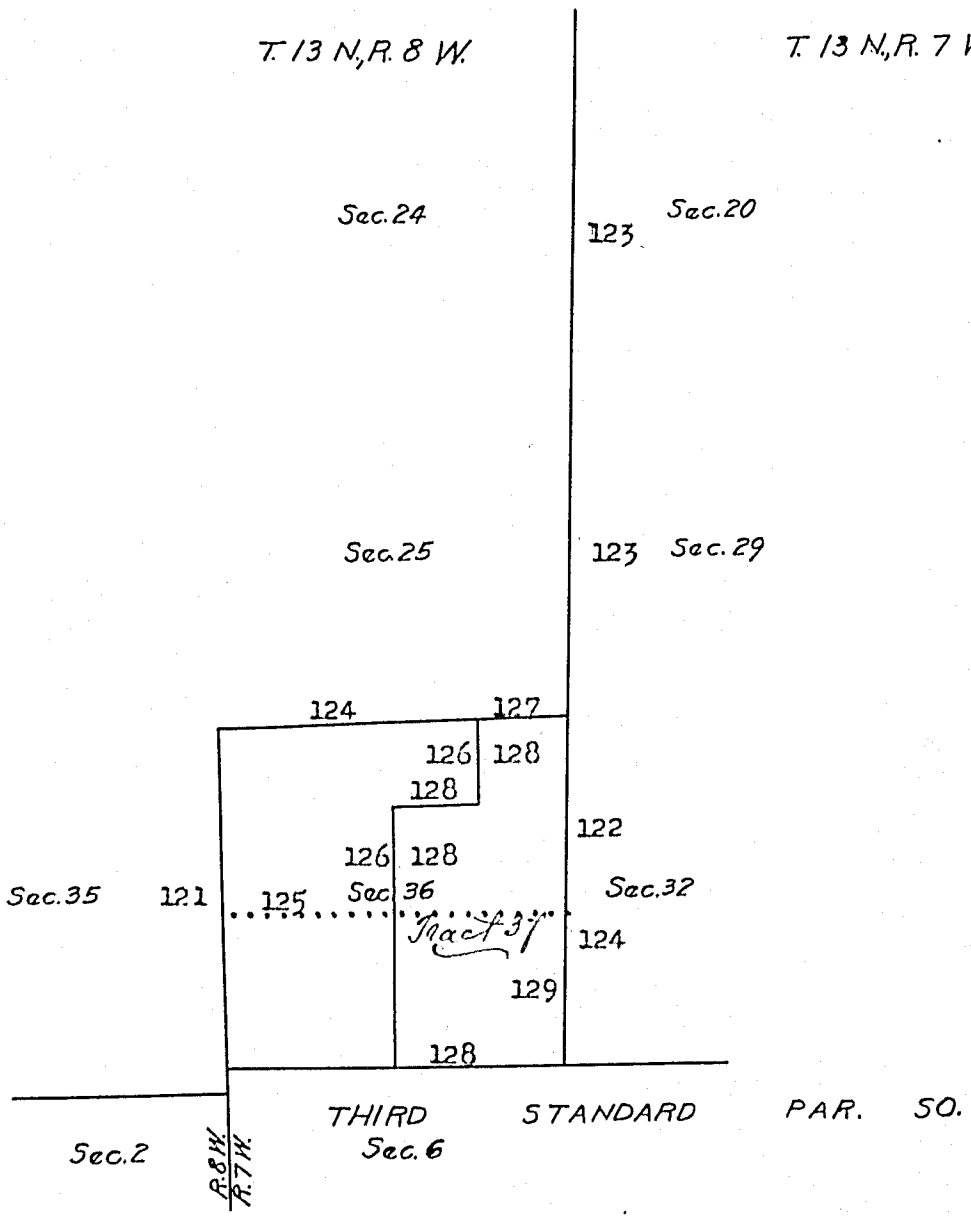
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FIELD NOTES

OF THE ~~SURVEY OF THE~~

Retracement and Resurvey of the Third Standard Parallel North

Through Range 5 West,

Retracement and Resurvey of the South and West Boundaries;

Restoration of Position of the Gorlinski East Boundary;

And

The Dependent Resurvey of Part of the Subdivision

of

Township No.12 North, Range No.5 West,

Of the Salt Lake Base and *Meridian,*

the State of Utah.

EXECUTED BY

John W.Dougall and Thomas C.Rathbone

the capacity of U. S. Surveyor and U.S.Transitman *under instructions dated* April 23 *191*4,
d supplemental special instructions dated Oct.7,1914 and Nov.10,1914,
spectively
ed by the United States Surveyor General to govern surveys included in

up No. 32 *, which were approved by the Commissioner of the General Land*

ce, May 23,1914, Oct.17, *191*4 and Nov.17,1914,respectively *pursuant to authority contained in the Act of*

gress dated *191*

Survey commenced May 15 *191*4

Survey completed November 25, *191*4.

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Retracement of South Boundary of T. 12 N., R. 8 W.

Chains

Survey commenced May 15, 1914, and executed with a Young and Son's light mountain transit No. 8515, with a Smith solar attachment, and with a Keuffel and Esser transit No. 20575, equipped with a Smith solar attachment. The horizontal limbs of both transits are provided with two double verniers, placed opposite to each other, and reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs of both transits.

The instruments were approved by the Assistant Supervisor of surveys for Utah.

Five-chain steel tapes and clinometers were used in making all measurements, and the tapes were frequently tested by comparison with a Standard one-chain steel tape kept for this purpose only.

May 15, 1914: I examine the adjustments of the Young and Son's transit No. 8515 and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications, resulting from solar observations, made during the a. m. and p. m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

At my camp, which is situated in the center of sec. 21, T. 12 N., R. 7 W., in approximate latitude 41°45½' N., longitude 112°39' W., I set off 41°45½' on the lat. arc; 18°52' N. on the decl. arc, and at 4h 56m p. m., l. m. t. determine with the solar a meridian and mark a point thereof on a stake driven in the ground, about 15 chs. N. of my station.

May 15, 1914.

May 16: At $3^h 58.2^m$ a. m., l. m. t., I observe Polaris at eastern elongation, in accordance with the Manual of Instructions, and mark a point in the line thus deter-

Retracement of the South Boundary of T. 12 N., R. 8 W

Chains

mined on a stake, driven in the ground, about 15 chs. N. of my station.

At 6h a. m., apparent time, I lay off the azimuth of Polaris, 1°32½' to the west; the meridian thus determined practically coincides with the meridian determined with the solar.

At 6h56m a. m., l. m. t., I set off 41°45½' on the lat. arc; 19°01' N. on the decl. arc, the meridian thus determined with the solar practically coincides with the meridian established by the Polaris observation. I therefore conclude that the adjustments of this transit are satisfactory.

The magnetic bearing of the true meridian at 7h 30m a. m., is N. 17°11' W.; the angle thus determined gives the mag. decl. 17°11' E.

John W. Dougall
U.S. Surveyor.

Nov. 12, 1914: I examine the adjustments of Keuffel and Esser transit No. 20575, find them correct; then to test the solar apparatus, by comparing its indications, resulting from solar observations, made during the a. m. and p. m., hours, with a meridian determined by observations on Polaris, I proceed as follows:

At my station, from which a meridian was established by observations on Polaris on May 16, 1914, previously described in these notes, I set off 41°45½' on the lat. arc; 17°36½' S. on the decl. arc, and at 3h 44m p. m., l. m. t., determine with the solar a meridian, which coincides with the meridian established by observations on Polaris from this same point by Mr. Dougall on May 16, 1914.

Nov. 13: At 7h 44m a. m., l. m. t., I set off 41°45½' on the lat. arc; 17°47' S. on the decl. arc, and determine

Chains

with the solar a meridian which practically coincides with the meridian established by the Polaris observation. I therefore conclude that the adjustments of the instrument are satisfactory.

Owing to a defective needle, I omit the observation for the determination of the mag. decl. at this time.

Thos. C. Cathcart

U. S. Transitman.

May 16, 1914: At 8h 56m a. m., l. m. t., I set off 41°43½' on the lat. arc; 19°01' N. on the decl. arc, and determine a meridian with the solar at the old cor. of secs. 2, 3, 34 and 35, on the S. bdy. of Tp., as set by Edward W. Koeber, U. S. Deputy Surveyor, in his re-establishment of U. S. Deputy Surveyor George V. M. Boutelle's corner, which is a badly crumpled sandstone, 2 dim grooves remaining on one piece, in a mound of stones. The marked stone is evidently a spall from the old cor.

(Note: Our acceptance of this stone as the old cor. of secs 2, 3, 34 and 35 was in part based on its consistency of position with relation to other known corners on this line.)

Thence I run

West, retracing on S. bdy. sec. 34.

40.00 After diligent search I am unable to find any trace of the old ¼ sec. cor.

I continue my line west, retracing, finding no old cors.

80.00 May 16, 1914: At this point, I set off 19°03' N. on the decl. arc, and at 11h 56m a. m., l. m. t., observe the sun on the meridian; the resulting lat. is 41°43½'.

240.00 Cease work for the day.

May 16, 1914.

May 18, 1914: At 7h 56m a. m., l. m. t., I set off 41°43½' on the lat. arc; 19°28½' N. on the decl. arc,

Chains

and determine a meridian with the solar at the 240.00 chain point.

Thence I continue,

West, retracing along S. bdy. of T. 12 N., R. 8 W., being unable to find any old cors., until at

320.39 Fall 2.79 chs. N. of the remains of an old mound of earth, with remains of four pits in secs., nearly filled in, for cor. of Ts. 11 and 12 N., Rs. 8 and 9 W.

The true course of the four miles on the S. bdy. is therefore S. 89°30' W., and the dist., 320.40 chs.

Note: For verification of the above indications for the Tp. cor., I retrace south, bet. secs. 1 and 6, and at

13.40 Center of track of the C. P. R. R. bears S. 83°43' W., and N. 83°43' E.

14.00 Center of the old U. P. R. R. grade bears E. and W.

The grade and the track join at about 3.00 chs. W. of this point. This practically coincides with the topography as returned by both George V. M. Boutelle and Edward W. Koeber, U. S. Deputy Surveyors; and I therefore accept the indications of the old mound and pits as the old cor. of Ts. 11 and 12 N., Rs. 8 and 9 W.

Note: For re-establishment of this cor. see page 14 of these notes.

May 18, 1914: At this old Tp. cor., I set off 19°30' N. on the decl. arc, and at 11h 56m a. m., l. m. t., observe the sun on the meridian; the resulting lat. is 41°43½'.

May 18, 1914.

Retracement of the North Boundary of T. 12 N., R.8 W.

Third Standard Parallel North.

June 4, 1914: At 7h 58m a. m., l. m. t., I set off 41° 48½' on the lat. arc; 22°24' N. on the decl. arc, and determine a meridian with the solar at the old St. cor. of Ts. 13 N., Rs. 7 and 8 W., as set by Jos. Gorlinski,

Retracement of the North Boundary of T. 12 N., R. 8 W.
Third St. Par. N.

Chains	
	D. S., in 1871, which is a limestone, resembling a granite, 16 x 12 x 8 ins. above ground, firmly set, properly mkd., and witnessed by two bearing trees, as follows:
	A cedar, 10 ins. dia., bears N. 10° E., 295 lks. dist., mkd. T 13 N R 7 W S 31 BT
	A cedar, 14 ins. dia., bears N. 8° W., 225 lks. dist., mkd. T 13 S R 8 W S 36 BT.
	Note: From this cor., the old cor. of secs. 31 and 32, T. 13 N., R. 7 W., set by Edward W. Koeber, D. S., heretofore described, bears N. 45° W., 6.80 chs. dist.
	Thence, from the Tp. cor., I run
	West, retracing along the S. bdy. of Sec. 36, by the 1871 survey.
40.29	Fall 47 lks. N. of the old St. ¼ sec. cor., which is a limestone, 10 x 8 x 8 ins. above ground, firmly set in a stone mound, and properly mkd.
	The true course of this line is therefore S. 89°20' W., and the dist. is 40.29 chs.
	From the old ¼ sec. cor., I run
	West, retracing along S. bdy. of sec. 36
40.05	Fall 20 lks. N. of the old. St. cor. of secs. 35 and 36, which is a limestone, 12 x 6 x 10 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
	After diligent search, I am unable to find any trace of the old closing cor.
	The true course of this line is therefore S. 89°43' W., and the dist., 40.05 chs.
	From this cor., a limestone, 12 x 6 x 8 ins. above ground, firmly set, and mkd. for the St. cor. of T. 13 N., Rs. 7 and 8 W., bears N. 39°31' W., 7.32 chs. dist., This cor. is witnessed by a double cedar, the mkd. limb of which is 5 ins. dia., bearing S. 3° E., 89 lks. dist., plainly scribed T. 12 N R 7 W BT. This cor. was undoubt-

Chains	
	edly set by Edward W. Koeber, D. S., in 1887, for the St. Tp. cor., and its position is consistent with the original system of suryeys by Jos. Troskolawski, D. S., which Jos. Gorlinski, D. S., overlapped.
	Note: D. S. Koeber reports setting the St. Tp. cor. at one mile E. of this point.
	June 4, 1914: At the St. cor. of secs. 35 and 36, I set off 22°25' N. on the decl. arc, and at 11h 58m a. m., l. m. t., observe the sun on the meridian; the resulting lat. is 41°48½'.

	From the old St. cor. of secs. 35 and 36, as established by D. S. Gorlinski, I run
	West, retracing along the S. bdy. of sec. 35, on 3rd. St. Par. N.
40.25	An old rotted stake, lying loose on the ground, too indefinite to accept as the old St. ¼ sec. cor., bears S., 25 lks. dist.
80.69	Fall 60 lks. N. of the old St. cor. of secs. 34 and 35, which is an old pine post, 3 x 3 x 12 ins. above ground, loosely set in a mound of earth, with dim traces of old pits E. and W. There are faint illegible marks, made with a scribe, on the post, but these remains are sufficiently definite for the acceptance as the old cor.
	The true course of this mile is therefore S. 89°34' W., and the dist., 80.69 chs.
	June 4, 1914.

	June 6, 1914: At 7h 58m a. m., l. m. t., I set off 41° 48½' on the lat. arc; 22°37½' N. on the decl. arc, and determine a meridian with the solar at the old St. cor. of secs. 34 and 35,
	Thence I run

Retracement of the North Boundary of T. 12 N., R. 8 W.

Third Standard Parallel North.

Chains	
	West, on the south bdy. sec. 34. on 3rd. St. Par. N.
40.00	After diligent search, I am unable to find any trace of the old St. ¼ sec. cor.
81.30	Fall 58 lks. N. of the old. St. cor. of secs. 33 and 34, which is a chipped limestone, 10 x 7 x 6 ins. above ground, loosely set in an old depression, mkd. with 3 notches on one edge, and 2 notches on the opposite. The stone has been chipped off on the place for the 3rd. notch. Also, an old cedar stake, 2 x 3 x 24 ins. lying loose on the ground beside the stone, is mkd. with 3 notches on two opposite edges; no accessories to cor.
	The true course of this mile is therefore S. 89°35' W., and the dist., 81.30 chs.

	From the old St. cor. of secs. 33 and 34, I run West, retracing along S. bdy. sec. 33, on 3rd. St. Par. N.
40.00	After diligent search, I am unable to find any trace of the old St. ¼ sec. cor.
80.76	Fall 46 lks. N. of the old St. cor. of secs. 32 and 33, which is a limestone, 6 x 12 x 6 ins. lying loose on the ground, in place in old depression, plainly mkd. with 4 notches on one edge, and with 2 on the opposite. No accessories.
	The true course of this mile is therefore S. 89°40' W., and the dist., 80.76 chs.
	June 6, 1914: At this cor. I set off 22°38' N. on the decl. arc, and at 11h 58 m a. m., 1. m. t., observe the sun on the meridian; the resulting lat. is 41°48½'.

	From the St. cor. of sec. 32 and 33, I run West, retracing along S. bdy. sec. 32, on 3rd. St. Par. N.
40.00	After diligent search, I am unable to find any trace of the old St. ¼ sec. cor. I continue west, retracing,

Chains

and find no old cors., until at

159.19 Fall 2.12 chs. N. of the old St. cor. of T. 13 N., Rs. 8 and 9 W., which is a limestone, 12 x 6 x 6 ins. lying loose on a mound of earth and stones, plainly mkd. with 6 notches on 4 edges. The stump remains of an old cedar post was found in mound. No pits in evidence.

The course of the two miles is therefore S. 89°14' W., and the true dist., 159.20 chs.

June 6, 1914.

John W. Dougall
U. S. Surveyor.

Restoration of Points for Corners on the East Boundary of T. 12 N., R. 8 W., as Surveyed by D. S. Gorlinski.

The west bdy. of T. 12 N. R. 7 W., as surveyed by D. S. Troskolawski in 1856, and re-established by D. S. Koeber in 1887, is overlapped by the Gorlinski and Boutelle survey of T. 12 N., R. 8 W, and the second range of sections in this Tp. will be restored to define the overlap. As no subdivisional cors. set by D. S Boutelle were found, the missing cors. will be restored by the method of double proportionate measurement, in accordance with the Pamphlet on Restoration of Lost and Obliterated corners. To do this it will be necessary to restore the points for the E. bdy. of Tp. as surveyed by D. S. Gorlinski.

November 13: For solar observation this day see Page 2.

From the cor. of Ts. 11 and 12 N., Rs. 7 and 8 W., heretofore described as set by D. S. Gorlinski in 1871, I run

North, retracing along the east bdy. of sec. 36, on E. bdy. of Tp. as surveyed by D. S. Gorlinski.

Restoration of Points on the E. Bdy. of T. 12 N., R. 8 W., as Surveyed by D. S. Gorlinski.

Chains	
40.00	After diligent search, I am unable to find any trace of the old ¼ sec. cor. I continue my line north, setting temp. points for ¼ sec. cors. and sec. cors. at intervals of 40.00 chs. After diligent search, I am unable to find any of the old cors.
240.00	At this point, I set off 17°52½'S. on the decl. arc, and at 11h 44m a. m., l. m. t., observe the sun on the meridian; the resulting lat. is 41°46'.
482.98	Fall 5.05 chs. E. of the old St. cor. of Ts. 13 N., Rs. 7 and 8 W., set by D. S. Gorlinski.

The true course of this line is therefore N. 0°36' W., and the miles will be 80.50 chs. I return and adjust the temp. cors. to the true positions for restored cors.

November 13, 1914.

Resurvey of the N. Bdy. of T. 12 N., R. 8 W., 3rd. St. Par. N.

November 16: For solar observation this day, see retracement line bet. secs. 10 and 11.

I re-establish the old St. cor. of secs. 34 and 35, on the S. bdy. of T. 13 N., R. 8 W., 3rd. St Par. N., as follows:

Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground beside the old cor., for re-established Str cor. of secs. 34 and 35, with brass cap mkd.

T 13 N	R 8 W
S 34	S 35

1914

Dig pits, 24 x 18 x 12 ins. cross-wise on each line E. and W. of post, 3 ft. dist.; and N. of post 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.

Thence I run

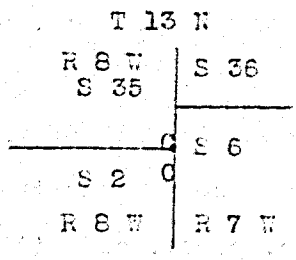
N. 89°34' E., on true line, on S. bdy. sec. 35, 3rd. St. Par. N.

Chains.	
	Asc. gradually over rolling land, through sagebrush undergrowth.
.78	By both sets of chainmen:
	Set a point for the restored closing cor. of secs. 2 and 3.
10.69	Road to timber, bears N. and S.
14.00	Wash, 10 ft. deep, 50 lks. wide, drains S.
15.40	Road to timber, bears N. and S.
	Difference between measurement of 40.34½ chs. by two sets of chainmen: is three links.; position of middle point
	By 1st. set, 40.33 chs.,
	by 2nd. set, 40.36 chs.; the mean of which is
40.34½	Proportionate point for ¼ sec. cor.
	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for restored standard ¼ sec. cor., with brass cap mkd.
	S 35 / ¼ / 1914
	Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Continue to asc. through sagebrush.
	Difference between measurement of the intersection with the west Bdy. of T. 12 N. R. 7 W., is 6 lks. ;
	by 1st. set, 75.22 chs.
	by 2nd set 75.28 chs.; the mean of which is
76.03	Intersect the west bdy. of T. 12 N., R. 7 W. at 5.69 chs. S. 0°13' W. of the N.W. cor. of T. 12 N., R. 7 W.
	At intersection
	Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for standard closing cor. of T. 13 N., R. 8 W., with brass cap mkd.

Resurvey of the North Bdy. of T. 12 N., R. 8 W.

3rd. St. Bar. M.

Chains



1914

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

Land, rolling, general drainage S.W.

Soil, light, coarse, sandy, clay loam, 2nd. to 3rd. rate, on stony subsoil.

No timber.

November 16, 1914.

Geo. C. Rathbone

U. S. Transitman.

Examination of Subdivision of T.12 N.R.8 W.

In the examination of the condition of T. 12 N., R. 8 W. made in May and June, 1914, the following subdivisional lines were examined: Bet. secs. 23 and 26; 22 and 23; 14 and 15; 11 and 14; 10 and 11; 2 and 11; 2 and 3; 33 and 34; 27 and 28; 21 and 22, 15 and 16; 10 and 15; 9 and 10; 3 and 10; 3 and 4; 32 and 33; 28 and 29; 20 and 21; 16 and 17; 9 and 16; 8 and 9; 4 and 5; 20 and 29; 19 and 20; 17 and 18; 7 and 8; 5 and 8, and the E. bdy. of Tp. The search for cors. covered a radius of at least 6 chs., at each point. Not one cor. of D. S. Boutelle's subdivisional survey was found, nor any corners on the E bdy. except the Tp. cors. D. S Koeber surveyed a portion in the western portion of the Tp. which was left unsurveyed by D. S. Boutelle on account of mountains. Four of D.S. Koeber's corners were found, as follows: the cor. of secs.

Chains

5, 6, 7 and 8; the ¼ sec. cor. bet. secs. 5 and 8; the cor. of secs. 17, 18, 19 and 20; and the ¼ sec. cor. bet. secs. 19 and 20. All of these cors. are about 5 chs. W. and 4 chs. N. relative to the position of the bdy. and Tp. cors., and will not be reckoned with in the restoration of the Boutelle subdivisions.

John W. Dougall
U. S. Surveyor.

Thos. C. Cathcart
U. S. Transitman.

First Meridional Line.

November 14, 1914: At 7h 44m a. m., l. m. t., I set off 41°43½' on the lat. arc; 18°03' S. on the decl. arc, and determine a meridian with the solar at the true point for the restored cor. of secs. 1, 2, 35 and 36, on the S. bdy. of Tp., originally set by D. S. Gorlinski, which point is 12.12 chs. S. 89°32' E. of the closing cor. of Ts. 11 and 12 N., R. 8 W., heretofore described.

Thence I run

North, retracing the line bet. secs. 35 and 36, D. S. Boutelle's survey.

3.84 Intersect the S. bdy. sec. 31, T. 12 N., R 7 W., 12.11 chs. N. 89°52' E. of the cor. of Ts. 11 and 12 N., R. 7 W., heretofore described.

40.00 After diligent search, I am still unable to find any trace of the old ¼ sec. cor. Set temp. point.

I continue north on this line, setting temp. points for sec. cors. and ¼ sec. cors. at intervals of 40.00 chs. After careful search at each point, I am still unable to find any trace of the old cors.

Resurvey of Subdivision of T. 12 N., R. 8 W.

Chains	
240.00	November 14, 1914: At this point I set off 18°08½' S. on the decl. arc, and at 11h 44m a. m., l. m. t., observe the sun on the meridian; the resulting lat. is 41°46'.
482.14	Intersect the 3rd. St. Par. N. at 4.07 chs. N. 89°34' E. of the point for the restored closing cor. of secs. 1 and 2, which point is reported as having been set at 55 lks. E. of the St. cor. of secs. 35 and 36.
	The true course of this line is therefore S. 0°29' E. I return and adjust the temp. cors. to their proportionate positions on this line.

Second Meridional Line.

November 16, 1914: For solar observation this day see line on N. bdy. sec. 1, on N. bdy. of Tp.

From the restored point for the closing cor. of secs. 2 and 3, on N. bdy. of Tp., which point is 78 lks. N. 89° 34' E. of the St. cor. of secs. 34 and 35,

I run

South, retracing bet. secs. 2 and 3, setting temp. cors. for sec. cors. and ¼ sec. cors. at intervals of 40.00 chs. After diligent search I am still unable to find any of the old cors.

160.00 Cease work for the day. Set temporary cor. of secs. 10, 11, 14 and 15.

November 16, 1914.

Thos C Rathbone

U. S. Transitman.

November 20, 1914: At 8h 46m a. m., l. m. t., I set off 41°43½' on the lat. arc; 19°34' S. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 2, 3, 34 and 35, on S. bdy. of Tp., heretofore

Resurvey of Subdivisions of T. 12 N., R. 8 W.

Chains

described and re-established.

Thence I run

North, retracing bet. secs. 34 and 35.

40.00 After diligent search, I am still unable to find any trace of the old ½ sec. cor. Set temp. ¼ sec. cor.

77.53 Fall 1.25 chs. E. of the 320.00 ch. point from the west, set on the 1st. latitudinal line.

80.00 Set temp. sec. cor. I continue my line north, find no old cors., and set temp. cors. at intervals of 40.00 and 80.00 chs.

160.00 November 20, 1914: At this point, I set off 19°37' S. on the decl. arc, and at 11h 46m a. m., l. m. t., observe the sun on the meridian; the resulting lat. is 41°45'.

320.77 Fall 4.43 chs. east of the temp. cor. of secs. 10, 11, 14 and 15.

The course of the six miles is therefore N. 0°32' W., and the dist., 480.78 chs.

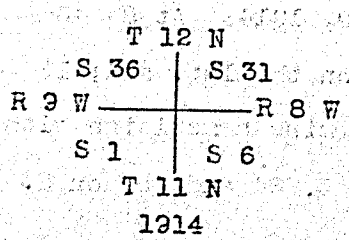
I return and adjust the temp. cors. on this line to their proportionate distances.

November 20, 1914

West Boundary of T. 12 N., R. 8 W.

November 18, 1914: I return to the old cor. of Ts. 11 and 12 N., Rs. 8 and 9 W., described on Page 3 of these notes. The true point, equidistant from the pits, falls on the old mound. I re-establish the cor. at this point as follows:

Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for re-established cor. of Ts. 11 and 12 N., Rs. 8 and 9 W., with brass cap mkd.



1914

chains

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

Nov.18: At 8h. 45m.a.m.l.m.t., I set off 41° 43½' on the lat. arc; 19°06'S., on the decl. arc; and determine a meridian with the solar at the re-established cor. of Tps. 11 and 12 N., Rs. 8 and 9 W.

Thence I run

North, retracing bet. secs. 31 and 36

40.00 After diligent search I find no trace of the ¼ sec. cor. I therefore continue my line North making careful searches for old ¢ sec. and sec. cors. at intervals of 40.00 chs.

60.00 Nov. 18: At this point I set off 19°09'S., on the decl. arc; and at 11h. 45m.a.m.l.m.t., observe the sun on the meridian; the resulting lat. is 41°45'.

239.30 Fall 336 lks. E. of the cor. of secs. 13,18,19 and 24, which is an old cedar stake, 2 x 2 x 8 ins., lying on rock mound, dimly, but properly marked. I re-establish cor. at the same point as follows:

Set an iron post, 3 ft. long, 3 ins. in dia., 18 ins. in the ground to solid rock, and 12 ins. in a mound of stone, 2 ft. base, 1 ft. high, for cor. of secs. 13, 18,19 and 24, with brass cap marked

T 12 N
R 9 W | R 8 W
S 13 | S 18
S 24 | S 19
1914

from which

A cedar, 6 ins. diam., bears N.39½°E., 74 lks. dist., marked T 12 N R 8 W S 18 B T

A cedar, 6 ins. diam., bears S.38°E., 39 lks. dist., marked T 12 N R 8 W S 19 B T

A cedar, 5 ins. diam., bears S.30½°W., 131 lks. dist., marked T 12 N R 9 W S 24 B T

A cedar, 8 ins. diam., bears N.80°W., 9 lks. dist., marked T 12 N R 9 W S 13 B T

Resurvey of West boundary of T.12 N.,R.8 W.

chains	
	The course of these three miles is therefore N.0°48'W. and the distance is 239.32 chs.
	Thence from cor. of secs. 13,18,19 and 24
	S.0°48'E., on true line bet. secs. 19 and 24
39.89	Proportioned point for ¼ sec. cor.
79.78	Proportioned point for restored cor. of secs. 19,24,25 and 30
	S.0°48'E., on true line bet. secs. 25 and 30
39.88½	Proportioned point for ¼ sec. cor.
79.77	Proportioned point for restored cor. of secs. 25,30,31 and 36
	S.0°48'E., on true line bet. secs. 31 and 36
39.88½	Proportioned point for ¼ sec. cor.
79.77	The cor. of Tps. 11 and 12 N., Rs. 8 and 9 W.
	John W. Dougall U. S. Surveyor.
	Nov.18: At 8h. 45.a.m.l.m.t., I set off 41° 48½'on the lat. arc; 19°06'S., on the decl. arc; and determine a meridian with the solar at a point 250 lks. N.89°14'E. of the old St. cor. of T.13 N., Rs. 8 and 9 W. which is the true point for the restored closing cor. of T. 12 N., Rs. 8 and 9 W.
	Thence I run
	South, retracing bet. secs. 1 and 6
39.20	After diligent search, I am unable to find any trace of the ½ sec. cor. (Record distance)
78.90	Fall 109 lks. E. of the cor. of secs. 1,6,7 and 12, which is a cedar stake, 2 x 2 x 8 ins. above ground, loosely set in an old mound of earth, properly marked and witnessed by distinct traces of old pits.
	I re-establish cor. at the same point as follows:

Resurvey of West boundary of T.12 N.,R.8 W.

chains	
	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground alongside old cor. for cor. of secs. 1,6, 7 and 12, with brass cap marked
	T 12 N R 9 W | R 8 W S 1 | S 6 S 12 | S 7 1914
	Dig pits, 18 x 18 x 12 ins., in each sec. 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	The course of this mile is therefore S.0°47'W., and the distance is 78.91 chs.

	From cor. of secs. 1,6,7 and 12, I run South, retracing bet. secs. 7 and 12
40.46	Fall 29 lks. E. of the ¼ sec. cor. which is an old cedar stake, 2 x 2 x 8 ins., above ground, loosely set in an old mound of earth, marked ¼S on W. face, witnessed by faint but distinct traces of pits.
	I re-establish cor. at the same point as follows:
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground alongside old cor. for ¼ sec. cor., with brass cap marked
	¼ S 12 | S 7 1914
	Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
	The course of this ½ mile is S.0° 25'W., and the distance is 40.46 chs.
	From the ¼ sec. cor., I continue South
40.00	After diligent search, I am unable to find any trace of the cor. of secs. 7,12,13 and 18. Set temp. point.
	Nov.18: At this cor., I set off 19°09'S., on the decl.

chains	
	arc; and at 11h. 45m.a.m.l.m.t., observe the sun on the meridian; the resulting lat. is 41° 47'.
	I continue my line South making careful searches for old cors. at intervals of 40.00 chs.
121.24	Fall 242 lks. W. of the cor. of secs. 13,18,19 and 24.
	The course of the line between the ¼ sec. cor. between secs. 7 and 12 and the cor. of secs. 13,18,19 and 24 is therefore S.1° 09' E., and the distance is 121.26 chs.

	From cor. of secs. 13,18,19 and 24
	N.1° 09'W., on true line bet. secs. 13 and 18
40.42	Proportioned point for ½ sec. cor.
80.84	Proportioned point for restored cor. of secs. 7,12,13 and 18.

	N.1°09'W., on true line bet. secs. 7 and 12
40.42	The ¼ sec. cor.
	Thos Rathbone U. S. Transitman.

	Resurvey of subdivision of T.12 N., R.8 W First Latitudinal Line
	November 19,1914: At 8h. 46m.a.m.l.m.t., I set off 41°44' on the lat. arc; 19° 20'S., on the decl. arc; and determine a meridian with the solar at the restored cor. point of secs. 25,30,31 and 36 on the W. bdy. of the Tp.
	Thence I run,
	East, retracing lines bet. secs. 30 and 31, 29 and 32, 28 and 33 and 27 and 34.
	Unable after diligent search to find any old cors.
160.00	November 19: At this station, I set off 19° 23'S., on the decl. arc; and at 11h. 46m.a.m.l.m.t., observe the sun on the meridian; the resulting lat. is 41° 44'.

chains	
320.00	Set temp. cor. for secs. 26,27,34 and 35
	November 19,1914
	November 20,1914: From my 320.00 ch. point I continue East
320.64	Fall 240 lks. S. of the adjusted temp. cor. of secs. 26,27,34 and 35.
	November 20,1914
	John W. Dougall U. S. Surveyor.
	November 25:1914: At 8h. 47m.a.m.l.m.t., I set off 41°44' on the lat. arc; 20° 38½'S., on the decl. arc; and determine a meridian with the solar at the adjusted temp. cor. of secs. 26,27,34 and 35.
	Thence I run
	East, retracing bet. secs. 26 and 35
40.00	Set temp. ¼ sec. cor.
69.11	Intersect W. bdy. of T.12 N., R.7 W., 3.84 chs. S.0°19'W. of the cor. of secs. 30 and 31 heretofore described.
	Set temp. closing cor.
80.20	Fall 36 lks. N. of the adjusted temp. cor. of secs. 25, 26,35 and 36
	From adjusted temp. cor. of secs. 25,26,35 and 36, I run East, retracing bet. secs. 25 and 36
80.41	Fall 14 lks. N. of the true point for Deputy Gorlinski's bdy. cor. of secs. 25,30,31 and 36.
	November 25: At this cor., I set off 20°41'S., on the decl. arc; and at 11h. 47m.a.m.l.m.t., obs. the sun on the meridian; the resulting lat. is 41° 44'.
	Thos C. Calthone U. S. Transitman.
	Second Latitudinal line
	November 18: For solar obsn. see line bet. secs. 31 and 36, W. bdy. of this Tp.
	From point for the restored cor. of secs. 19,24,25 and 30

Resurvey of subdivision of T.12 N.,R.8 W.

chains	
	on the W. bdy. of the Tp., I run
	East, retracing bet. secs. 19 and 30
80.00	No trace of the cor. of secs. 19,20,29 and 30 can be found.
85.36	Fall 504 lks. S. of a cedar post, 3 x 3 x 14 ins. above ground, loosely set in a plain mound of earth, marked with 5 notches on E. and 1 notch on S. side. Other marks broken off. Remains of pits plainly visible.
	Note: Both Deputy Boutelle and Deputy Koeber report having set stone cors. at this point. Unable to find stone cors.
	I continue
	East, retracing bet. secs. 20 and 29
160.00	Set temp. cor.
	November 18,1914.
	November 24,1914: At 8h. 47m.a.m.l.m.t., I set off 41°45' on the lat. arc; 20° 26'S., on the decl. arc; and determine a meridian with the solar at my point 160.00 chs. E. of the restored point for cor. of secs. 19,24, 25 and 30 on the W. bdy. of the Tp.
	Thence I run
	East, retracing bet. secs. 21 and 28 and 22 and 27 with continuous chaining.
320.76	Fall 3.28 chs. S. of the adjusted temp. cor. of secs. 22, 23, 26 and 27.
	November 24: At this cor. I set. off 20° 29'S., on the decl. arc; and at 11h. 47m.a.m.l.m.t., obs. the sun on the meridian; the resulting lat. is 41°45'.
	From the adjusted cor. of secs. 22,23,26 and 27, I run
	East, retracing bet. secs. 23 and 26
40.00	Set temp. ¼ sec. cor.
70.27	Intersect W. bdy. of T.12 N.,R.7 W., 4.36 chs. S.0°19'W. of the cor. of secs. 19 and 30 heretofore described.
	Set temp. closing cor.
80.20	Fall 2 lks. S. of the adjusted temp. cor. of secs. 23,

chains	
	24,25 and 26
	From the adjusted temp. cor. of secs. 23,24,25 and 26 I run
	East, retracing bet. secs. 24 and 25
80.31	Fall 14 lks. N. of the true point for Deputy Gorlinski's cor. of secs. 19,24,25 and 30 on the E. bdy. of the Tp.
	November 24,1914
	John W. Dougall U. S. Surveyor
	Third Latitiudinal Line
	November 18: For solar observation see line bet. secs. 1 and 6, W. bdy. of this Tp.
	From the re-established cor. of secs. 13,18,19 and 24 on the W. bdy. of the Tp., I run
	East, retracing bet. secs. 18 and 19
85.87	Fall 663 lks. S. of the cor. of secs. 17,18,19 and 20, which is a limestone, 16 x 9 x 9 ins., loosely set in a mound of earth, properly marked. This cor. is set by Deputy Edward W. Koeber.
	Deputy Boutelle reports setting an iron stone here. From this cor. a cedar stake, 3 x 2 x 20 ins., lying on the ground, marked ¼ on one face and not witnessed bears S.0° 35'E., 40.34 chs. distant. This stake does not appear to be old enough to have been set by Deputy Boutelle and is the ¼ sec. cor. bet. secs. 19 and 20 set by Deputy Koeber in his resurvey.
	November 18,1914.
	November 20: At 8h. 46m.a.m.l.m.t., I set off 41° 46' on the lat. arc; 19° 34'S., on the decl. arc; and determine a meridian with the solar at my point 85.87 chs. E. of the re-established cor. of secs. 13,18,19 and 24.
	Thence I run
	East, retracing bet. secs. 17 and 20 with continuous chaining.

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chains	
160.00	Set temp. cor.
	November 20: At this point, I set off 19° 37'S., on the decl. arc; and at 11h. 46m.a.m.l.m.t., obs. the sun on the meridian; the resulting lat. is 41° 46'
	Nov. 20, 1914.
	Thos. C. Cathcart
	U. S. Transitman.
	November 23,1914: At 8h. 46m.a.m.l.m.t., I set off 41° 46' on the lat. arc; 20°14'S., on the decl. arc; and determine a meridian with the solar at my point 160.00 chs. E. of the re-established cor. of secs. 13,18,19 and 24 on the W. bdy. of the Tp.
	Thence I run
	East, retracing bet. secs. 16 and 21 and 15 and 22 with continuous chaining.
321.16	Fall 3.81 chs. S. of the adjusted temp. cor. of secs. 14,15,22 and 23.
	November 23,1914: At this cor., I set off 20°16½'S., on the decl. arc; and at 11h. 46m.a.m.l.m.t., obs. the sun on the meridian; the resulting lat. is 41° 46'.
	From the adjusted temp. cor. of secs. 14,15,22 and 23, I run
	East, retracing bet. secs. 14 and 23
40.00	Set temp. ¼ sec. cor.
71.53	Intersect W. bdy. of T.12 N.,R.7 W., 4.54 chs. S.0°19'W. of the cor. of secs. 18 and 19 heretofore described
	Set temp. closing cor.
80.21	Fall 1 lk. S. of the adjusted temp. cor. of secs. 13,14, 23 and 24.
	From adjusted temp. cor. of secs. 13,14,23 and 24, I run
	East, retracing bet. secs. 13 and 24
80.17	Fall 1 lk. S. of the true point for Deputy Gorlinski's cor. of secs. 13,18,19 and 24 on the E. bdy. of the Tp.
	Note: In computing proportionment, a traverse of the Boutelle survey was used, as follows: Bet. secs. 18 and

chains

19, 19 and 20, 20 and 29, 20 and 21, etc.

Fourth Latitudinal Line Nov. 23, 1914.

November 21,1914: At 8h. 46m.a.m.l.m.t., I set off 41° 47' on the lat. arc; 19°48'S., on the decl. arc; and determine a meridian with the solar at the restored point for cor. of secs. 7,12,13 and 18 on the W. bdy. of the Tp.

Thence I run

East, retracing lines bet. secs. 7 and 18, 8 and 17 and 9 and 16

120.00 November 21: At this point, I set off 19°50½'S., on the decl. arc; and at 11h. 46m.a.m.l.m.t., obs. the sun on the meridian; the resulting lat. is 41°47'.

240.00 Set temp. cor. After diligent searches, I found no trace of any cors., either Deputy Koeber's or Deputy Boutelle's.

November 21,1914

John W. Dougall
U. S. Surveyor.

November 23: At 8h. 46m.a.m.l.m.t., I set off 41° 47' on the lat. arc; 20°14'S., on the decl. arc; and determine a meridian with the solar at my point 240.00 chs. E. of the restored point for cor. of secs. 7,12,13 and 18 on the W. bdy. of the Tp.

Thence I run

East, retracing bet. secs. 10 and 15, counting distances from the restored point for cor. of secs. 7,12,13 and 18 on the W. bdy. of the Tp.

321.90 Fall 2.99 chs. S. of the adjusted temp. cor. of secs. 10,11,14 and 15

From the adjusted temp. cor. of secs. 10,11,14 and 15 I run

East, retracing bet. secs. 11 and 14

40.00 Set temp. ¼ sec. cor.

72.68 Intersect W. bdy. of T.12 N.,R.7 W., 5.11 chs. S.0°19'W.

Resurvey of subdivision of T.12 N.,R.8 W.

chains	
	of the cor. of secs. 7 and 18 heretofore described
	Set temp. closing cor.
80.25	Fall 32 lks. S. of the adjusted temp. cor. of secs. 11, 12,13 and 14.
	November 23,1914: At this cor., I set off 20°16½'S., on the decl. arc; and at 11h. 46m.a.m.l.m.t., obs. the sun on the meridian; the resulting lat. is 41° 47'
	From the adjusted temp. cor. of secs. 11,12,13 and 14, I run
	East, retracing bet. secs. 12 and 13
80.06	Fall 27 lks. S. of the true cor. point for Deputy Gorlinski's cor. of secs. 7,12,13 and 18 on the E. bdy. of the Tp.
	Note: In computing the proportionment, a traverse of the Boutelle survey was used as follows: Bet. secs. 7 and 12; 6 and 7; 5 and 8; 8 and 9; 9 and 16; &c.

	Fifth Latitudinal Line
	November 19,1914: At 8h. 46m.a.m.l.m.t., I set off 41°48' on the lat. arc; 19° 20'S., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 1, 6,7 and 12 on the W. bdy. of the Tp.
	Thence I run
	East, retracing bet. secs. 6 and 7
85.47	Fall 4.07 chs. S. of a limestone, 12 x 12 x 6 ins., lying on the top of a mound of stone, marked with 5 notches on one and 3 notches on another edge. Stone is broken off at place for other 2 notches. This cor. stands on a flat bench about 3 chs. wide, bearing NE. and SW. and therefore cannot be made to conform to Deputy Boutelle's description. This cor. was set by Deputy Koeber and will not be taken into consideration in the restoration of the subdivision by Deputy Boutelle.
	I continue
	East, retracing bet. secs. 5 and 8

Resurvey of subdivision of T.12 N.,R.8 W.

chains	
125.47	Fall 3.62 chs. S. of the ½ sec. cor. which is a limestone 8 x 8 x 4 ins. above mound of stone, mkd. ¼ on N. face.
	This cor. will not be taken into consideration in the restoration of the Boutelle subdivision.
160.00	November 19: At this station, I set off 19°23'S., on the decl.arc; and at 11h. 46m.a.m.l.m.t., obs. the sun on the meridian; the resulting lat. is 41° 48'.
	Thence I continue
	East, retracing bet. secs. 4 and 9 and 3 and 10
320.50	Fall 236 lks. S. of the temp. cor. of secs. 2,3,10 & 11.
	November 19,1915
	November 20,1914, I continue my line East
321.22	Fall 243 lks. S. of the adjusted temp. cor. of secs. 2, 3,10 and 11
	November 20,1914.
	November 21,1914: At 8h. 46m.a.m.l.m.t., I set off 41°48' on the lat. arc; 19°48'S., on the decl. arc; and determine a meridian with the solar at the temp. adjusted cor. of secs.2,3,10 and 11
	Thence I run
	East, retracing bet. secs. 2 and 11
40.00	Set temp. ½ sec. cor.
73.98	Intersect W. bdy. of T.12 N.,R.7 W., 5.65 chs. S.0°19'W., of the cor. of secs. 6 and 7 herebofore described.
	Set temp. closing cor.
79.93	Fall 54 lks. S. of the adjusted temp. cor. of secs. 1,2, 11 and 12.
	From the adjusted temp. cor. of secs. 1,2,11 and 12, I run
	East, retracing line bet. secs. 1 and 12
80.40	Fall 53 lks. S. of the point for Gorlinski's cor. of secs. 1,6,7 and 12 on the E. bdy. of the Tp.
	November 21,1914: At this cor., I set off 19°50½'S., on the decl. arc; and at 11h. 46m.a.m.l.m.t., obs. the sun on the meridian; the resulting lat. is 41° 48'
	November 21,1914
	Nov. 25:
	From the cor. of secs. 2,3,34 and 35 on the S. bdy. of

chains	
	the Tp. heretofore described, I run
	N.0° 27'W., on true line bet. secs. 34 and 35
	Over barren alkali mud flat.
18.00	Enter slough, bears N.70°W. and S.70°E., salty water, 3 to 8' ins. deep, slight drainage to the SW. Leave flat.
38.00	Leave slough, bears NW. and SE., enter barren alkali flat.
40.08½	The proportionate point for the ¼ sec. cor.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked
	¼ S 34 | S 35 1914
	Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist; and raise a mound of earth, 3½ ft base, 1½ ft. high, W. of cor.
80.17	Double proportionate measurement point.
	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, with brass cap marked
	T 12 N | R 8 W S 27 | S 26 S 34 | S 35 1914
	Dig pits, 18 x 18 x 12 ins. in each sec., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft.high,W.of cor.
	Land, level, barren alkali flat; 20 chs. covered with salt slough, slight drainage to SW. Soil, alkali. No timber. No undergrowth.

	S.89° 45'E., on true line bet. secs. 26 and 35
	Over barren alkali flat
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked
	¼ S 26 S 35 1914
	Dig pits, 18 x 18 x 12 ins.,E.and W. of post,3 ft.dist.; raise a mound of earth, 3½ ft. base,1½ ft.high,N.of cor.
42.00	Leave mud, enter salt slough 6 ins. deep, drains S., bears N. and S.
65.15	Salt Creek, 6 lks. wide, 15 ins. deep, drains SW.
68.30	Leave slough, enter alkali mud flat, bears NE.and SW

Resurvey of subdivision of T.12 N.,R.8 W.

chains	
69.00	Intersect W. bdy. of T.12 N.,R.7 W., 4.16 chs. S.0°19'W. of the cor. of secs. 30 and 31. At intersection
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 26 and 35, with brass cap marked
	T 12 N S 26 | S 30 CC S 31 S 35 R 8 W | R 7 W 1914
	Dig pits, 24 x 18 x 12 ins. crosswise on each line, N. and S. 3 ft. and W. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, level, alkali mud flat, partly covered with salt slough.
	Soil, barren alkali.
	No timber. Undergrowth, salt grass.

	From the cor. of secs. 26,27,34 and 35, I run N.0°34'W., bet. secs. 26 and 27
	Over level barren alkali mud flat.
31.00	Leave mud flat, bears NW. and SE., enter sandy flat with greasewood undergrowth
40.08½	Proportionate point for the ¼ sec. cor.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked
	¼ S 27 | S 26 1914
	Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist. raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
48.00	Leave greasewood, bears NE. and SW., enter barren alkali mud flat.
60.00	Leave mud flat, bears NE. and SW., asc. over bank 6 ft. high to low sand ridge, through greasewood undergrowth.
69.40	Road, Salt Wells to Cosmo, bears E. and W.
71.70	Road, Hansel Valley to Cosmo, bears N.80°E. and S.80°W.
	The two roads join approximately 3 chs. S.80°W. on top of sand ridge, 15 ft. above flat; descend gradually.

Resurvey of subdivision of T.12 N.,R.8 W.

chains

80.17 Proportionate point for cor. of secs. 22,23,26 and 27.

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, with brass cap marked

T 12 N S 22	R 8 W S 23
S 27	S 26

1914

Dig pits, 18 x 18 x 12 ins. in each sec., 5½ ft. dist., raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level, except for low ridge on N. portion.

Soil, part alkali mud flat, part sandy; 4 th. rate.

No timber. Undergrowth, greasewood.

Nov. 25, 1914.

November 24,1914: At 8h. 47m.a.m.l.m.t., I set off 41°45' on the lat. arc; 20°26'S., on the decl. arc; and determine a meridian with the solar at the point for cor. of secs. 22,23,26 and 27

Thence

N.89°59'E., on true line bet. secs. 23 and 26

Over nearly level land sloping NW., gradually ascend through greasewood undergrowth.

14.80 Road, Hansel Valley to Cosmo, bears N.30°E. and S.30°W.

25.90 Road, Salt Wells to Cosmo, bears NE. and SW. Low ridge, 10 ft. above sec. cor., bears NE. and SW.

33.70 Leave sandy soil, bears NE. and SW., enter salt grass flat.

40.08 Proportionate point for the ¼ sec. cor.

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked

¼ S 23
S 26
1914

Dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.

Resurvey of Subdivision of T. 12 N., R. 8 W.

Chains.	
54.70	Three-wire fence bears S. and N. 2.50 chs., thence NE.
57.30	Enter shallow marshy slough, draining slightly to the S., bears N. and S.
70.19	Intersect the W. bdy. of T. 12 N., R. 7 W., S. 0º 19' W., 4.34 chs. from the cor. of secs. 19 and 30, heretofore described. At point of intersection I
	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the closing cor. of secs. 23 and 26, with brass cap mkd.

T. 12 N
S 19
S 23 | S 30
S 26
R 8 W | R 7 W

1914

Dig pits, 24 x 18 x 12 ins. crosswise on each line, N. and S. of post, 3 ft. dist., and W. of post, 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high W.

Land, level, except for the low ridge in the western portion.

Soil, sandy in the western portion; alkali mud flat in the eastern portion; 4th rate.

Timber, none.

Undergrowth, greasewood in the western portion; salt grass in the eastern portion.

Good grazing in the eastern portion.

From the restored cor. of secs. 22, 23, 26 and 27, N. 1° 1' W., on true line bet. secs. 22 and 23.

Over nearly level sandy flat, through greasewood undergrowth.

40.08½	Proportionate point for the ½ sec. cor.
	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

¼ S 22 | S 23

1914

Dig pits, 18 x 18 x 12 ins. N. and S. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high,

Resurvey of subdivision of T. 12 N., R. 8 W.

Chains.	
	W. of cor.
80.17	Proportionate point for the cor. of secs. 14, 15, 22 and 23.
	Set an iron post, 3ft. long, 2 ins. diam., 24 ins. in the ground, for the restored cor of secs. 14, 15, 22 and 23, with brass cap mkd.
	T 12 N | R 8 W S 15 | S 14 S 22 | S 23 1914
	Dig pits, 18 x 18 x 12 ins. in each sec., 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	November 24, 1914: At this cor. I set off 20º 29' S. on the decl. arc, and at 11h 47m, a. m., l. m. t., observe the sun on the meridian, the resulting lat. is 41° 46'.
	Land, nearly level.
	Soil, sandy, dry; 3rd and 4th rates.
	Timber, none.
	Undergrowth, greasewood.

	From the restored cor. of secs. 14, 15, 22 and 23.
	East, on true line bet. secs. 14 and 23.
	Over nearly level flat draining SE., through salt sage and greasewood undergrowth; along and 30 lks. S. of wire fence.
40.10	Proportionate point for the ¼ sec. cor.
	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	¼ S 14 S 23 1914
	Dig pits, 18 x 18 x 12 ins. E. and W. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
50.30	Road, Cosmo to Hansel Valley, bears NE. and SW.
72.15	Intersect the W. bdy. of T. 12 N., R. 7 W., S. 0º 19' W.,

Chains.	
	4.54 chs. from the cor. of secs. 18 and 19, heretofore described. At point of intersection I
	Set an iron post, 3ft. long, 2 ins. diam., 24 ins. in the ground, for the closing cor. of secs. 14 and 23, with brass cap mkd.
	T 12 N S 14 | S 18 c S 19 S 23 c R 8 W | R 7 W 1914
	Dig pits, 24 x 18 x 12 ins. crosswise on each line, N. and S. of post, 3 ft. dist., and W. of post, 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, nearly level, slight drainage to the SE.
	Soil, dry, sandy; 4th rate.
	Timber, none.
	Undergrowth, greasewood and salt sage.

	From the restored cor. of secs. 14, 15, 22 and 23.
	N. 0° 44' W., on true line bet. secs. 14 and 15.
	Asc. over nearly level land, through greasewood and salt sage undergrowth. Land slopes SE.
.30	Wire fence, bears E. and W.
35.00	Foot of bench, bears NE. and SW.; asc.
40.08½	Proportionate point for the ¼ sec. cor.
	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	¼ S 15 | S 14 1914
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
44.40	Road, Cosmo to Critchlow's bears NW. and SE.
61.80	Wash, 40 lks. wide, 10 ft. deep, drains SE.
73.00	Wash, 30 lks. wide, 10 ft. deep, drains SE.
75.00	Top of bench, bears NE. and SW., 75 ft. above base; thence over level land, through sage brush undergrowth.
80.17	Proportionate point for the cor. of secs. 10,11, 14 and 15.

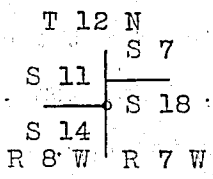
Chains.	
	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 10, 11, 14 and 15, with brass cap mkd.
	T 12 N R 8 W S 10 | S 11 S 15 | S 14 1914
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, SE. slope of bench in the northern postion, nearly level in the southern portion.
	Soil, dry, sandy loam, on stony subsoil in the N. half; 3rd rate.
	Timber, none.
	Undergrowth, salt grass and sage brush.
	November 24, 1914.

	November 23, 1914: For solar observation, see retracement of line bet. secs. 10 and 15.
	From the true point for the proportioned cor. of secs. 10, 11, 14 and 15.
	N. 89° 46' E., on true line bet. secs. 11 and 14.
	Asc. over narrow bench, bearing NE. and SW., through sage brush undergrowth, along fence bearing E. and W.
.75	Desc. over SE. edge of bench, bears NE. and SW.
11.00	Foot of steep desc., bears NE. and SW., 75 ft. below cor.; desc. gradually.
33.00	Branch road, bears N. and S.
37.00	Enter dense sage brush flat, bears NE. and SW.
40.31½	Proportionate point for the ¼ sec. cor.
	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for the ¼ sec. cor., with brass cap mkd.
	½ S 11 S 14 1914
	Dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
	Corner falls under wire fence, bears E. and W.

Chains.	
49.00	Leave sage, bears N. and S., enter salt sage brush.
71.20	Road, bears NE. and SW., Cosmo to Hansel Valley; 1.50 chs. north, branch roads fork to NW.
73.59	Intersect the W. bdy. of T. 12 N., R. 7 W., S. 0° 19' W., 4.82 chs. from the cor. of secs. 7 and 18, heretofore described.

At point of intersection I

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the closing cor. of secs. 11 and 14, with brass cap mkd.



1914

Dig pits, 24 x 18 x 12 ins. crosswise on each line, N. and S. of post, 3 ft. dist., and W. of post, 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, W. 11 chs., steep SE. slope of bench; E. 62.59 chs. nearly level, sloping SE.

Soil, W. 11 chs., sandy and stony, on stony subsoil; E. 62.59 chs., dry, light sandy clay; 3rd rate.

Timber, none.

Undergrowth, sage brush on the western portion; salt sage on the eastern portion.

From the restored cor. of secs. 10, 11, 14 and 15.

N. 0° 08' W., on true line bet. secs. 10 and 11.

Over bench, bearing NE. and SW., through sage brush undergrowth.

13.00	Start desc. over NE. edge of bench, bears NW. and SE.
25.00	Foot of desc. bears NW. and SE., 80 ft. below top; desc. gradually.
40.08½	Proportionate point for the ½ sec. cor.

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in

Chains.	
	the ground, for the ¼ sec. cor., with brass cap mkd.
	¼ S 10 | S 11
	1914
	Dig pits, 18 x 18 x 12 ins. N. and S. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
51.40	Road, Critchlow's to Salt Wells, bears NW. and SE.
53.50	Start desc. into wash, bears NW. and SE.
55.70	Bottom of dry wash, 25 ft. deep, drains SE.
58.30	Leave wash, bears NE. and SW.
63.40	Small wash, 10 ft. deep, drains SE.
80.17	Proportionate point for the cor. of secs. 2, 3, 10 and 11.
	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 2, 3, 10 and 11, with brass cap mkd.
	T 12 N R 8 W
	S 3 | S 2
	S 10 | S 11
	1914
	Dig pits, 18 x 18 x 12 ins. in each sec., 5½ ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
	A N. and S. fence bears West, 88 lks. dist.
	Land, S. 25 chs. steep S. slope of bench; remainder nearly level, except where cut by washes.
	Soil, light sandy clay, dry, at least 25 ins. deep; 2nd and 3 rd rate, except on S. 25 chs. where it is a little stony.
	Timber, none.
	Undergrowth, sage brush.
	November 23, 1914.

November 21, 1914: For solar observation, see retracement of line bet. secs. 2 and 11.

From the true point for the proportionate cor. of secs. 2, 3, 10 and 11.

N. 89° 37' E.; on true line bet. secs. 2 and 11.

Chains. Over nearly level land, draining SE., through sage brush undergrowth.

14.00 Wash, 50 lks. wide, 20 ft. deep, drains S.

32.50 Road, Snowville to Salt Wells, bears NE. and SW.

40.27½ Proportionate point for the ¼ sec. cor.

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

¼ S 2
S 11
1914

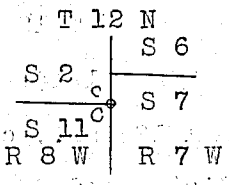
Dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.

59.50 Leave flat, bears N. and S., asc. to ridge.

74.34 Intersect the W. bdy. of T. 12 N., R. 7 W., S. 0° 19' W., 5.15 chs. from the cor. of secs. 6 and 7, heretofore described.

At point of intersection, 80 ft. above flat, I

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



1914

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

Land, west 60 chs., nearly level; east 14.34 chs. W. slope of ridge.

Soil, east 14.34 chs. sandy and rocky, on rocky subsoil, 3rd rate; west 60 chs. light, dry, sandy clay loam, 5 ft. or more deep, 2nd and 3rd rate.

Timber, none.

Undergrowth, sage brush.

From the restored cor. of secs. 2, 3, 10 and 11, N. 0° 16' W., on true line bet. secs. 2 and 3.

Asc. gently along E. side of wire fence, through sage-

Chains.

brush undergrowth.

40.08½ Proportionate point for the ¼ sec. cor.

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

¼-S 3 | S 2

1914

Dig pits, 18 x 18 x 12 ins. N. and S. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.

51.40 Road, Salt Wells to Snowville, bears NW. and SE.

79.93 Intersect the Third Standard Parallel North at 78 lks. N. 89° 34' E. of the reestablished std. cor. of secs. 34 and 35, heretofore described, which point is the true point for the restored Deputy Boutelle closing cor. At point of intersection I

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

T 13 N
S 34 | S 35
R 8 W
S 3 C C S 2
T 12 N

1914

Dig pits, 24 x 18 x 12 ins., crosswise on each line, E. and W., 3 ft. dist., and S. of post, 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, S. of cor.

Land, nearly level; gentle SW. slope.

Soil, dry, sandy clay loam, 2 ft. or more deep.

Timber, none.

Undergrowth, sage brush.

November 21, 1914.

Thos. Rattbone

U. S. Transitman.

Boundaries of T. 12 N., R. 8 W.

Latitudes, departures and closing errors.

Lines Designated.	True Bearing	Distances. Chs.	Latitudes. N. Chs.	Latitudes. S. Chs.	Departures. E. Chs.	Departures. W. Chs.
E. Bdy. T12NR8W.	N. 1°37'W.	3.72	3.72	.....	.....	.10
E. " " " " ".	N. 0°19'E.	478.03	478.03	.....	2.64	
N. " " " " ".	S. 89°34'W.	76.03	.....	.57	.....	76.03
N. " " " " ".	S. 89°35'W.	81.30	.....	.59	.....	81.30
N. " " " " ".	S. 89°40'W.	80.76	.....	.47	.....	80.76
N. " " " " ".	S. 89°14'W.	156.70	.....	2.10	.....	156.68
W. " " " " ".	S. 0°47'W.	78.91	.....	78.91	.....	1.08
W. " " " " ".	S. 0°25'W.	40.46	.....	40.46	.....	.29
W. " " " " ".	S. 1°09'E.	121.26	.....	121.24	2.43	.....
W. " " " " ".	S. 0°48'E.	239.32	.....	239.30	3.34	.....
S. " " " " ".	N. 89°30'E.	320.40	2.80	.....	320.40	.....
S. " " " " ".	S. 89°32'E.	67.96	.....	.55	67.96	.....
Convergency			.....	.....	.....	.56
			484.55	484.19	396.77	396.80
			484.19	Error		396.77
Error in latitude, . .			.36	in dep.		0.03

GENERAL DESCRIPTION.

The portion of the township under this survey is generally flat, with a southerly drainage. The south two sections are on a low flat, only a few feet above the present level of the Great Salt Lake, and may be subject to inundation in times of high water. The salt slough, or marsh, supplied by Salt Wells, with a general southwest drainage, covers part of the south two sections, affords a growth of short salt grass, furnishing grazing for cattle only. The remainder of the two sections is covered with an alkali mud clay and barren of vegetation. Salt grass, however has been raised on these clay flats by flooding the land with water from Salt Wells, thereby washing out the alkali from the soil.

From section 23, to the north, the land becomes higher in elevation, covered with sage brush, and may be dry-farmed, (sections 2 and 11) but the areas covered with greasewood and salt sage appear to have too great an alkaline content for agricultural land.

There is no timber, and no indication of mineral or oil, neither are there any settlers within

General Description T.12 N.,R.8 W.

the bounds of this survey.

John W. Dougall
U. S. Surveyor.

Thos C Kathbone
U. S. Transitman.

4—680

BOOK A-410

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 "D" T.11 N.R.7 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 TRANSITMAN. SURVEYOR.

I, Thomas C. Rathbone, U. S. Transitman Surveyor, do solemnly swear that, in pursuance of ~~special~~ instructions received from the U. S. Surveyor General for Utah bearing date ~~of the~~ Apr. 23, 1914, ~~day of~~ Oct. 7, 1914 and Nov. 10, 1914, respectively ~~19XX~~ 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, retraced and re-surveyed all those parts or portions of the Third Standard Parallel North, through Range 8 West; south and west boundaries; restoration of position of Gorlinski east boundary; and the dependent resurvey of part of the subdivision of Township 12 North, Range 8 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 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 Utah., and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Thos. C. Rathbone
~~U.S. Surveyor.~~
U.S. Transitman.

Subscribed by said Thomas C. Rathbone, and sworn to before me this 18 day of April, 1916

SEAL

U.S. Surveyor-General
for Utah.

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 been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys 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.

6—2761

BOOK A-410

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 .....

.....

.....

.....

.....

.....

.....

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, John W. Dougall, U. S. Surveyor, do solemnly swear that, in pursuance of ~~special~~ instructions received from the U. S. Surveyor General for Utah bearing date ~~of the~~ April 23 ~~day of~~ 1914, Oct. 7 and Nov. 10, 1914, respectively, 1914, 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, retraced and resurveyed all those parts or portions of the Third Standard Parallel North, through Range 8 West; south and west boundaries; restoration of position of Gorlinski east boundary; and the dependent resurvey of part of the subdivision of Township 12 North, Range 8 West

Base and of the Salt Lake Meridian, in the State of Utah, 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 Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

John W. Dougall
U. S. Surveyor.

Subscribed by said John W. Dougall, and sworn to before me this 18 day of April, 1916

SEAL

N. C. Thoresen
U. S. Surveyor-General
for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 18, 1916

The foregoing field notes of the ~~survey of~~ retracement and resurvey of the Third Standard Parallel North, through Range 8 West; south and west boundaries; restoration of position of Gorlinski east boundary; and the dependent resurvey of part of the subdivision of Township No. 12 North, Range No. 8 West, of the Salt Lake Base and Meridian, Utah,

executed by John W. Dougall and Thomas C. Rathbone under their ~~his special~~ instructions dated April 23, 1914, Oct. 7, and Nov. 10, 1914, respectively, 1914, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the retracements and resurveys they describe, are hereby approved.

N. C. Thoresen
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.

C—2761

U. S. Surveyor General.

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4—679

BOOK A-410

B.

FIELD NOTES

OF THE SURVEY OF THE

tracement of the Third Standard Parallel North, through Range 7 West,

Retracement and Resurvey of the East and West Boundaries

And

Dependent Resurvey of Part of the Subdivision

o f

Township No.12 North, Range No.7 West

Of the Salt Lake Base and *Meridian,*

the State of Utah

EXECUTED BY

John W.Dougall and Thomas C.Rathbone

and U.S.Transitman

the capacity of U. S. Surveyor, *under instructions dated* April 23, *1914*,
d supplemental special instructions dated Oct.7,1914 and Nov.10,1914
spectively
ued by the United States Surveyor General to govern surveys included in

oup No. 32, *which were approved by the Commissioner of the General Land*
and Nov.17, 1914,respectively
fice, May 13,1914,Oct.7, 1914, *pursuant to authority contained in the Act of*

ngress dated ..... *191*....

Survey commenced June 6, *1914*

Survey completed May 28, *1915*

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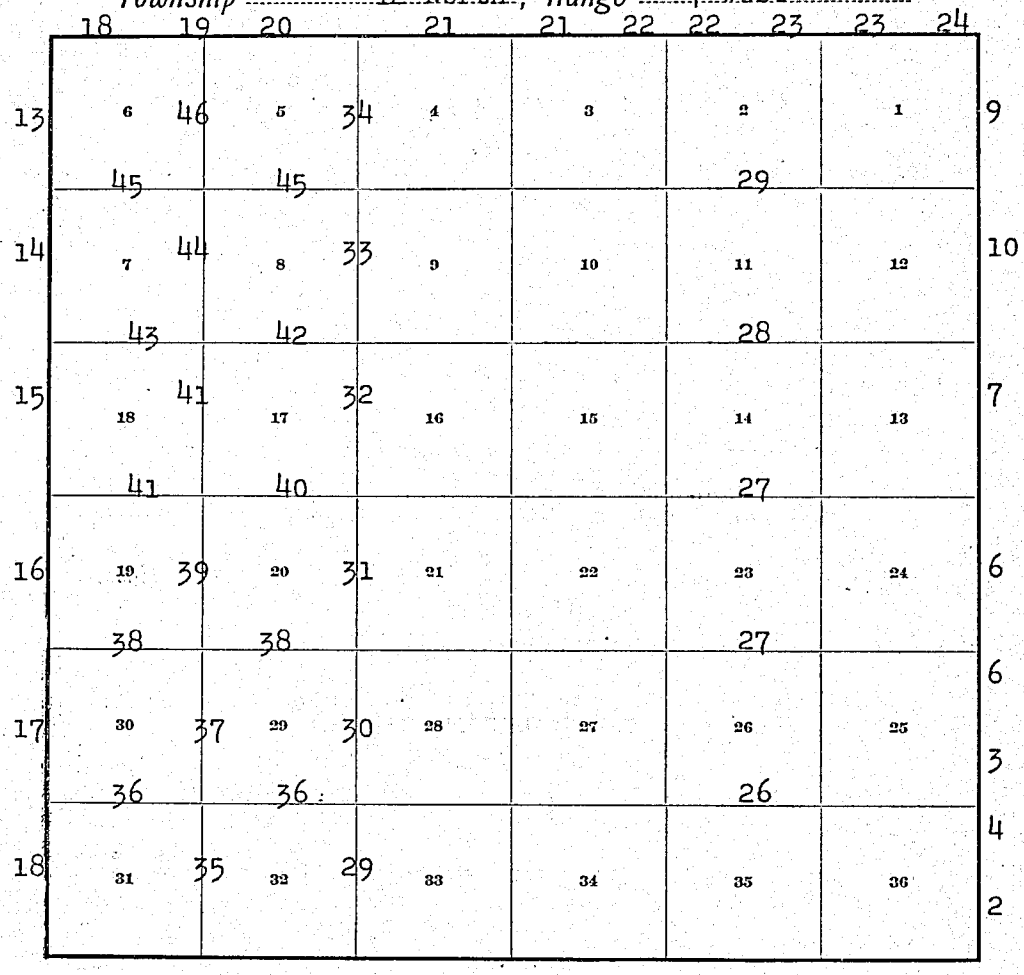
BOOK A-410

INDEX DIAGRAM.

Township 12 North, *Range* 7 West



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Retracements and Resurveys of T.12 N. R. 7 W.

chains

Examinations commenced May,20,1914, for description and test of instruments see notes on T.11N.R.7 W.

Resurvey was commenced May, 14 ,1915,and executed with a Young & Sons light mountain transit No.8515 ,equipped with a Smith solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other and reading to single minutes of arc,which is also the least count of the latitude and declination arcs. The instrument was approved for use in this resurvey by Mr. G.D.D.Kirkpatrick Assistant Supervisor of Surveys.

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 a.m.and p.m. hours,with a meridian determined by observations on Polaris,

I proceed as follows ,

At the cor. of Tps.11 & 12 N.Rs. 6 & 7 W.;latitude 41°43' N. longitude 112°35'W.,at 4^h09^m a.m. l.m.t.,I observe Polaris at eastern elongation,in accordance with instructions in the Manual,and mark the line thus determined, by a tack driven in a wooden peg firmly set in the ground,five chains north of my station.

At 8^h09^m a.m. apparent time,I lay off the azimuth of Polaris, 1°32' to the west, and mark the true meridian thus determined,by a pencil mark on a stake firmly driven in the ground, west of the mark established this a.m.;the magnetic bearing of the true meridian,at 8^h30^m a.m. is N.17°55'W. which gives the magnetic declination 17°55'E.

At 9^h05^m a.m. apparent time, I set off 41°43'N.on the lat. arc,18°29'N. on the decl.arc,and mark a point in the meridian determined with the solar,,by a pencil mark on thestake already set 5.00 chs.north of my station;the mark falls 0.2 ins. east of the meridian established by the Polaris observation.

At 3^h06^m p.m. apparent time ,I set off 41°43'N. on the lat. arc.18°33'N.on the decl.arc,and mark a point in the meridian

Chains. determined with the solar, by a pencil mark on the stake already set 5.00 chs. N. of my station; the mark falls 0.3 ins. west of the meridian established by the Polaris observation.

The solar apparatus, by a.m. and p.m. observations defines positions for meridians, respectively about 0'10" east and 0'16" west of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

May.14,1915.

All measurements were made with steel tapes 5.00 chs. long.

Clinometers were used to take all slope angles the horizontal distance only is shown in these notes.

Oct.24,1914, At $10^h_h\ 00^m$ a.m. apparent time, I set off 41°43'N. on the lat. arc, 11°37'S. on the decl. arc. at the cor. of Tps. 11 & 12 N. Rs.6 & 7 W. described in notes of T.11 N.R. 7 W., and determine a meridian with the solar.

Thence I retrace N. bet. secs. 31 and 36.

40.09 Intersect the base of an old post decayed and broken off at top of mound of earth, the top of post is 2 X 3 ins. 2 ft. long, lying on mound, plainly marked ¼ on one face impression of pits reasonably plain.

I make this cor. permanent as follows,

Set an iron post, 3 ft. long, 1 in. in diam. 26 ins. in the ground, alongside the stump of the old cor. for ¼ sec. cor. with brass cap marked

S 36 | S 31
¼
1914

Dig pits, 18 X 18 X 12 ins. N. & S. of post, 3 ft. dist: and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.

Chains.	
	From the restored ¼ sec. cor. bet. secs. 31 & 36.
	I run .
	North on a retracement line bet. secs. 31 & 36.
40.00	After careful search find no trace of cor. of secs.25,30, 31 and 36.
	Set a stake for temp. cor. of secs. 25,30,31 & 36.
	Oct.24; Atthis temp. cor. I set off 11°39'S. on the decl. arc;and,at 11^h44^ml.m.t.,observe the sun on the meridian; the resulting lat.is 41°44' N.

	From temp.cor. of secs. 25,30,31 & 36.
	I run .
	North on a retracement line bet. secs. 25 & 30.
40.60	Fall 52 lks. E.of ¼ sec. cor. which is a limestone 6 x 6 x 12 ins.loosely set in a stone mound, plainly marked ¼ on W. face .
	I make this cor. permanent as follows .
	Set an iron post, 3 ft.long, 1 in. in diam. 26 ins. in the ground, alongside the old cor. for ¼ sec. cor. with brass cap marked
	¼ S 25 | S 30 1914
	and raise a mound of stone,2½ ft.base 2 ft. high N. of cor.
	Therefore the course of this line from the ¼ sec. cor. bet.secs.31 & 36 to the ¼ sec.cor.bet. secs. 25 & 30,is N.0°22'W.and distance is 80.60 chs.

	Note : I resurvey the line bet.¼ cor.bet. secs. 25 & 30 and the ¼ cor. bet. secs. 31 & 36 as follows.
	From the ¼ cor. bet. secs.25 & 30 ,here-to-fore described I run S.0°22'E.on a resurvey line bet. secs. 25 & 30.
	Over rolling foot hills stony formation draining W.
0.30	Small hollow 10 ft. below cor. drains W.
10.00	Point of small spur 30 ft. above hollow projects W.
16.00	Small hollow 40 ft. below spur drains. W.
32.00	Wash on slope 30 lks. wide 10 ft. deep drains W.

Retracement and Resurvey of East Bdy. of T.12 N.,R.7 W.

Chains.	
40.30	The proportionate point for cor. of secs.25,30,31 & 36.
	Set an iron post ,3 ft.long,3 ins. in.diam. 24 ins. in the ground for cor. of secs.25,30,31 & 36,
	with brass cap marked
	T 12 N R 7 W | R 6 W S 25 | S 30 S 36 | S 31 1914
	and raise a mound of stone 3 ft. base 2½ ft. high W. of cor.
	Land rolling foot hills ,draining west ,
	Soil,gravelly with some sand and clay ,underlayed with gravel.
	Good growth grass.
	No timber.

	From the restored cor, of secs. 25,30,31 & 36,
	I run
	S.0°22'E. on a resurvey line bet. secs. 31 & 36.
	Over rolling foot hills draining W.
00.40	Wash 30 lks. wide 12 ft. deep, drains W.
12.75	Wash 20 lks. wide 10 ft.deep drains W.
22.25	Wash 25 lks. wide 20 ft.deep drains W.
31.90	Wash 30 lks.wide 20 ft. deep, drains S.80°W.
35.50	Wash 20 lks. wide 10 ft. deep drains W.
40.30	The ¼ sec.cor. here-to-fore described.
	Land , rolling foothills sloping W.
	Soil ,gravelly , with some clay ,on conglomerate base.
	good growth of bunch grass .
	No timber.

	From the ¼ sec. cor. bet. secs. 25 & 30.
	I retrace
	North bet. secs. 25 & 30.
40.00	After careful search find no trace of cor.of secs.19,24,25 and 30.;set temp.cor .

Retracement and Resurvey of East Bdy. of T.12 N., R.7 W.

Chains.

Oct. 24, 1914.

Thos. C. Rathbone

U.S. Transitman.

Nov.2,1914, At 10^h a.m. apparent time, I set off 41°45' on the lat. arc. 14°37' S. on the decl. arc. and determine a meridian with the solar at the temp. cor. of secs. 19, 24, 25 & 30.

Thence I retrace

North bet. secs. 19 & 24.

40.00 After careful search find no trace of ¼ sec. cor. set. temp. ¼ sec. cor.

80.32 Fall 1.47 chs: E. of the cor. of secs. 13, 18, 19 & 24. which is a sandstone 8 X 10 X 8 ins. above ground, firmly set, plainly marked, 3 notches on N. & S. edges, plain indications of pits and earth mound,

I make this cor. permanent as follows.

Set an iron post, 3 ft. long, 3 ins. diam. 24 ins. in the ground, alongside the old cor. for cor. of secs. 13, 18, 19 & 24, with brass cap marked,

T 12 N
R 7 W | R 6 W
S 13 | S 18

S 24 | S 19
1914

and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Therefore the course of this line from the ¼ cor. bet. secs. 25 & 30 to cor. of secs. 13, 18, 19 & 24 is N. 0°48' W. and distance is 120.38 chs.

Nov.2,1914, At this cor. I set off 14°39' S. on the decl. arc; and, at 11^h44^m l.m.t., observe the sun on the meridian; the resulting lat. is 41°46'

Nov.2,1914,

May,18,1915 -, The sky is overcast and solar observations are impossible.

From the ¼ sec. cor. bet. secs. 25 & 30, here-to-fore described,

Retracements and Resurvey of East Bdy. of T.12 N.,R.7 W.

Chains.	
	I run
	N.00°42'W. on a resurvey line bet. secs. 25 & 30.
	Ascend over gravelly foot hills,
1.50	Point of spur 35 ft. above ¼ cor. projects W.
10.00	Hollow 70 ft. below spur drains W.
14.80	Point of spur 60 ft. above hollow projects W.
39.00	Leave rolling hills 65 ft. below spur enter rolling valley bears N.20°E. and S.20°W.
40.11	The proportionate point for cor. of secs. 19,24,25 & 30.
	Set an iron post, 3 ft. long, 3 ins. diam. 24 ins. in the ground for cor. of secs. 19,24,25 & 30,
	with brass cap marked
	T 12 N R 7 W | R 6 W S 24 | S 19 S 25 | S 30 1915
	and raise a mound of stone 2½ ft. base 2 ft. high W. of cor.
	Land, rolling foot hills draining W.
	Soil, gravelly, coarse texture, moist, on gravel and conglomerate base, good growth of grass,
	No timber,

	From the cor. of secs. 19,24,25 & 30.
	I run
	N.0°42'W. on a resurvey line bet. secs. 19 & 24.
	Over gently rolling valley land draining W.
40.11	The proportionate point for ¼ sec. cor.
	Set an iron post, 3 ft. long, 1 in. diam. 26 ins. in the ground for ¼ sec. cor. with brass cap marked,
	¼ S 24 | S 19 1915
	and raise a mound of stone 2 ft. base 1½ ft. high W. of cor.
70.00	S.E. cor. of a plot of cultivated land bears W.1.00 ch.
80.22	The cor. of secs. 13,18,19 & 24, here-to-fore described.
	From this cor. N.E. cor. of a plot of cultivated land bears S.22°W. 2.87 chs. dist.
	Land, gently rolling, draining W.

Retracement & Resurvey of East Bdy. of T.12 N.,R.7 W.

Chains.	
	Soil, good sandy loam ,with some gravel, medium texture, moist,underlayed with gravel and clay.
	No timber.
	Dry farming is being done in NE part of sec.24 owner unknown not living on land. Rye being raised.
	May,18,1915.

	Nov.2,1914, From the cor. of secs. 13,18,19 & 24.before described
	I retrace
	North bet. secs. 13 & 18.
40.00	After careful search find no trace of ¼ sec.cor.
	Set temp. cor.
80.57	Fall 2.06 chs. E.of cor. of secs. 7,12,13 & 18, which is a limestone 4 X 6 X 6 ins. above ground, firmly set, plainly marked 4 notches on S.and 2 notches on N.edges plain traces of the old pits,part of the mound remains.
	I make this cor,.permanent as follows .
	Set an iron post, 3 ft.long. 3 ins. diam. 24 ins. in the ground,alongside the old cor,for cor. of secs. 7,12,13 & 18, with brass cap marked,

T 12 N

R 7 W	R 6 W
S 12	S 7
S 13	S 18

1914

	dig pits,18 x 18 x 12 ins.,in each sec.5½ ft.dist.;and raise a mound of earth,4 ft.base 2 ft.high E.of cor.
	Therefore the course of this line is N.1°28'W.and dist. is 80.60 chs.
	Nov.2,1914,

	May,18,1915, From the cor,of secs. 13,18,19 & 24,
	Here-to-fore described.
	I run
	N.1°28'W.on a resurvey line bet.secs. 13 & 18.
	Over gently rolling land draining SW.
5.00	Enter sage brush bears E.and W.
27.50	Wash 50 lks . wide 20 ft. deep,drains S.40°W.

Retracement & Resurvey of East Bdy. of T.12 N., R.7 W.

Chains.	
40.30	The proportionate point for ¼ sec. cor. Set an iron post, 3 ft. long, 1 in. diam, 26 ins. in the ground, for ¼ sec. cor. with brass cap marked ½ S 13 | S 18 1915 dig pits, 18 x 18 x 18 ins, N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
80.60	The cor. of secs. 7, 12, 13 & 18, before described. Land, gently rolling SW. slope; soil good clay loam, 30 ins deep, fine texture, moist, on clay subsoil; suitable for dry farming, Undergrowth, sagebrush. No timber.

	From the cor. of secs. 7, 12, 13 & 18, before described, I retrace North bet. secs. 7 & 12.
40.00	After careful search find no trace of ¼ sec. cor. Set temp. cor.
80.00	After careful search find no trace of cor. of secs. 1, 6, 7 & 12. set temp. cor.

	From temp. cor. for secs. 1, 6, 7 & 12. I retrace North bet. secs. 1 & 6,
40.00	After careful search find no trace of ¼ sec. cor. Set temp. ¼ cor.
78.50	Intersect Third Standard Parallel North 64 lks. W. of S.C. of T.13 N., Rs.6 & 7 W. which is a sandstone 16 x 6 x 6 ins. above ground, firmly set, plainly marked 6 notches on N. E. S. & W. edges and S C. on NW. face, stone mound 3 ft. base 1½ ft. high W. of cor. at 1.10 chs. W. of S.C. of T 13 N., Rs.6 & 7 W. I find a mound of stone with no marked stone for closing cor. of T.12 N., Rs.6 & 7 W. as this mound is in the reported position for the C C of T.12 N., Rs.6 & 7 W.

Retracement & Resurvey of East Bdy. of T.12 N.,R.7 W.

Chains.

I accept it as the true point for CC of T.12 N.,Rs.6 & 7 W.and make the cor. permanent as follows .

Set an iron post, 3 ft.long,3 ins.diam. 24 ins. in the ground for closing cor. of T.12 N.,Rs.6 & 7 W.,with brass cap marked

T 13 N
S 36 | S 31
C C
R 7 W ——— R 6 W
S 1 | S 6
T 12 N
1915

and raise a mound of stone 3 ft.base 2½ ft.high S.of cor.

Therefore I intersect The Third Standard Parallel North 46 lks. E.of the CC.of T.12 N.,Rs.6 & 7 W. which gives the course of this line from cor. of secs. 7,12,13 &18, N.0°10' W. and distance 158.50 chs.

From the CC.of T.12 N.,Rs.,6 & 7 W.

I run.

S.0°10'E.on a resurvey line bet. secs. 1 and 6.

Over rolling stony mountainous land ascend..

15.00 Ridge 100 ft.above cor.bears N.30°W.& S.30°E.

19.50 Enter scattering scrub cedar timber bears E.& W.

33.60 Ravine 200 ft. below ridge drains W.

38.95 The proportionate point for ¼ sec. cor.

Set an iron post,3 ft.long, 1 in. diam. 26 ins. in the ground,for ¼ sec.cor. with brass cap marked

½ S 1 | S 6
1915

from which

A cedar tree 6 ins.diam.,bears N.68°E.8 lks.dist., marked ½ S 6 B T .

A cedar tree 10 ins.diam.,bears S.43°20'W.49 lks.dist., marked ½ S.1 B T .

This ¼ cor .is 100 ft. above ravine on N.slope .

43.00 Spur 75 ft. above ¼ sec. cor. projects W.

52.10 Hollow 125 ft. below spur drains S.80°W.

60.00 Spur 100 ft.above hollow projects W.

Retracement & Resurvey of East Bdy. of T.12 N., R.7 W.

Chains.	
71.50	Small ravine 90 ft. below spur drains S.80°W.
77.00	Point of spur 75 ft. above ravine projects N.80°W.
78.80	The proportionate point for cor. of secs. 1,6,7 & 12.
	Set an iron post, 3 ft. long, 3 ins. diam. 26 ins. in a stone mound, on solid rock, for cor. of secs. 1,6,7 & 12, with brass cap marked,

T 12 N.

R 7 W	R 6 W
S 1	S 6
S 12	S 7

1915

from which

A cedar tree 10 ins. diam., bears N.36°E. 32 lks. dist., marked T.12.N.R.6 W.S 6 B.T.

A cedar tree 8 ins. diam., bears S.71°E. 34 lks. dist. marked T 12 N R 6 W S 7 B T.

A cedar tree 8 ins. diam. bears S.58°W. 41 lks. dist., marked T 12 N R 7 W S 12 B T.

A cedar tree 6 ins. diam., bears N.27°15'W. 56 lks. dist. marked T 12 N R 7 W S 1 B T.

Land., stony rolling hills draining W.

Soil, clay with some gravel and stones 3 to 10 ins. deep, moist. underlayed with limestone and gravel.

Timber, scrub cedar.

From the cor. of secs. 1,6,7 & 12.

I run

S.0°10'E. on a resurvey line bet. secs. 7 & 12.

Descend along west slope of foot hills through scattering cedar timber.

4.00	Leave scattering cedar timber bears N.10°W. & S.10°E.
15.00	Leave W. slope and descend towards valley on S. slope
25.00	Enter sage brush bears NE. & SW. and slope becomes more gentle
39.85	The proportionate point for ¼ sec. cor.
	Set an iron post, 3 ft. long, 1 in. diam. 26 ins. in the ground for ¼ sec. cor., with brass cap marked

Chains

$\frac{1}{4}$ S 12 | S 7

1915

dig pits,18 x 18 x 12 ins.,N.and S. of post,3 ft.dist.; and raise a mound of earth,3½ ft. base 1½ ft.high W.of cor.

This ¼ sec. cor. is 400 ft.below sec. cor.

62.60 Small wash 20 lks. wide 5 ft.deep drains SW,.

79.70 The cor. of secs. 7,12,13 & 18,before described.

N.15 chs.stony rolling foot hills of nearly solid lime stone formation:S.64.70 chs.rolling bench land sloping S.soil sandy loam with some stones 9 to 16 ins. deep, medium texture,moist, on clay and gravel subsoil..

Timber, scattering scrub cedar: undergrowth sage brush.

May,18,1915,

Retracement and Resurvey of West Bdy. of T.12 N.R.,7 W.

Nov.12,1914, From the cor.of Tps. 11 & 12 N.R.7 W. described in the notes of T.11 N.R.7 W.

I retrace

North bet.secs. 31 & 36.

40.00 After careful search find no trace of ¼ sec. cor.

Set temp. ¼ sec. cor.

80.00 After careful search find no trace of cor. of secs.25,30, 31 & 36. Set temp.cor.

From the temp.cor. of secs.25,30,31 & 36.

I retrace

North bet. secs. 25 & 30.

40.00 After careful search find no trace of ¼ sec. cor.

Set temp. ¼sec.cor.

80.00 After careful search find no trace of cor. of secs.19,24 25 & 30. Set temp. cor.

Nov.12,1914,At 9^h,a.m. apparent time , I set off 41°45' on the lat. arc;17°34' S.on the decl.arc; and determine

Retracement & Resurvey of West Bdy. of T.12 N.,R,7 W.

Chains.	
	a meridian with the solar at the temp.cor.of secs.19,24, 25 & 30,
	Thence I retrace ,
	North bet. secs.19 & 24.
40.00	After careful search find no trace of ¼ sec. cor. ,set temp.¼ sec.cor.
80.00	After careful search find no trace of cor, of secs?13,18, 19 & 24,set temp. cor.

	From temp.cor. of secs. 13,18,19 & 24.
	I retrace
	North bet.secs. 13 & 18.
40.00	After careful search find no trace of ¼ sec. cor. set temp. ¼ sec. cor.
80.00	After careful search find no trace of cor. of secs. 7,12, 13 & 18,. set temp. cor.

	From temp.cor. of secs.7,12,13 & 18,
	I retrace
	North bet.secs. 7 & 12
40.00	After careful search find no trace of ¼ sec. cor,. set temp. ¼ cor.
80.00	After careful search find no trace of cor .of secs.1,6, 7 & 12 .,set temp. cor.

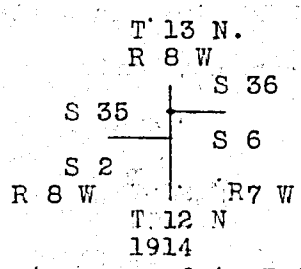
	From temp.cor. of secs. 1,6,7 & 12.
	I retrace
	North bet. secs. 1 & 6.
40.00	After careful search find no trace of ¼ sec.cor. set temp. ¼ cor.
74.00	After careful search find no cor. for end of survey as reported by Deputy Troskolawski.
83.72	Fall 2.67 chs. west of a limestone 12 x 6 x 10 ins. above ground,firmly set,plainly marked 6 notches on N.E.& W. edges,stone mound 2 ft.base 1½ ft.high N. of stone . from which a double cedar tree 5 ins. diam. bears S.3°E.

Retracement & Resurvey of West Bdy. of T.12 N.,R.7 W.

Chains. 8 9 lks. dist.plainly marked (marks are very old)T.12 N. R 7 W B T , this stone was undoubtedly set by Deputy Koeber for the standard cor. of T.13 N.R.7 & 8 W.and is consistent with the original Troskolawski survey of T.12 N.R.7 W,although Deputy Koeber reports eliminating the west range of sections,to conform with the Gorlinski survey of T.12 N.,R.8 W.which overlaps the western part of T.12 N.R.7 W. as originally surveyed by Deputy Troskolawski.

I accept this stone as the NW.cor.of T.12 N.R.7 W.and make it permanent as follows .

Set an iron post, 3 ft.long,3 ins.diam. 24 ins. in the ground ,alongside the old cor. ,for NW.cor. of T.12 N., R.7 W.and standard corner of section 36 of T.13 N., R.8 W., with brass cap marked,



and rebuild the stone mound to 3 ft. base 2 ft.high N. of cor.

Therefore the course of this line ,viz.W.bdy.of T.12 N. R.7 W. is N.0°19'E.and distance is 483.72 chs.

Nov.12,1914,At this cor. I set off 17°36'S.on the decl. arc;and,at 11h44m.l.m.t.,observe the sun on the meridian the resulting lat.is 41°49'

From the NW.cor. of T.12 N.,R 7 W.

Note: Knowing from previous examinations that closing cors. will be set for T.12 N.,R.8 W. I set cors.on this line for T.12 N.,R 7 W.only .

I run

S.0°19' W.on a resurvey line on W.bdy.of sec.6.

Descend gently over foot hills of Hansel Mts.through sage brush.

Retracement & Resurvey of West Bdy. of T.12 N.R.7 W.

Chains.	
5.65	The S.C. for secs. 35 & 36 of T.13 N.R.8 W.as surveyed by Deputy Gorlinski bears east 4.66 chs.dist. which is a limestone 12 x 6 x 10 ins. above ground, firmly set, plainly marked 1 notch on E. and 5 notches on W.edges small stone mound, N.
40.31	The proportionate point for ¼ sec. cor. Set an iron post,3 ft.long,1 in.diam. 26 ins.in the ground for ¼ sec.cor., with brass cap marked ¼ S 6 1914 and raise a mound of stone 2 ft. base 1½ ft.high E.of cor.
45.00	Small draw 100 ft. below Tp cor. drains SE.
51.00	Low ridge 50 ft. above draw bears N.30°W & S.30°E.
80.62	The proportionate point for cor. of secs.6 & 7. Set an iron post,3 ft.long,3 ins. diam. 12 ins. in ground to bed rock and 12 ins. in a stone mound,for cor.of secs. 6 & 7 , with brass cap marked , T 12 N S 6 R 7 W S 2 R 8 W S 7 S 11 1914 and raise a mound of stone ,3 ft. base 2 ft.high E.of cor.
	Land, rolling foot hills, draining SE.
	Soil,light sandy loam with some gravel and stones underlayed with clay and limestone .
	No timber, undergrowth sage brush,

	From the cor. of secs. 6 & 7
	I run
	S.0°19 ' W. on a resurvey line on W. bdy.of sec.7.
	Descend over rolling foot hills through sage brush.
25.00	Enter bench bears E.& W.
35.00	Leave bench descend gradually bears E.& W.
40.31	The proportionate point for ¼ sec. cor. Set an iron post, 3 ft.long, 1 in.diam 26 ins. inthe ground for ¼ se c.cor. with brass cap marked

Retracement & Resurvey of West Bdy. of T.12 N.R.7 W.

Chains	
	¼ S 7 | 1914
	and raise a mound of stone 2 ft.bas e 1½ ft. high E.of cor.
48.50	Road from Salt Wells to Snowville bears NW.& SE.
49.00	Leave sage brush bears NW.& SE. and enter valley NE.& SW.
66.90	Road Salt Wells to Critchlows Dry Farm bears E.& W.
74 90	Dim wood road bears NW.& SE.
77.30	Road from Hansel Valley to Cosmo bears N.40°E.& S.40°W.
80.62	The proportionate point for cor. for secs. 7 & 18.
	Set an irom,post,3 ft.long,3 ins. diam.24 ins.in the ground for cor. of secs. 7 & 18, with brass cap marked

T 12 N R 7 W.
R 8 W. | S 7
S 11 | S 18
S 14
1914

	dig pits 24 x.24 x 12 ins.in each sec.,6 ft.dist.;and raise a mound of earth, 4 ft.base,2 ft.high E.of cor.
	N.49.00 chs. rolling hills ,soil, gravelly and stony,
	S.31.62 chs.valley land, soil good sandy loam 10 to 20 ins. deep, on clay subsoil, capable of being dry farmed
	No timber , undergrowth sage brush,
	From the cor. of secs. 7 & 18
	I run
	S.0°19'W.on a resurvey line on W. bdy. of sec. 18.
	Over valley land,
4.87	Wire fence bears E.& W.
40.31	The proportionate point for ¼ cor.
	Set an iron post, 3 ft.long,1 in.in diam. 26 ins.in the ground for ¼ sec. cor.with brass cap marked
	¼ S.18 | 1914
	dig pits ,18 x.18 x12 ins.N.& S.of post,3 ft.dist.; and raise a mound of earth 3½ ft.base 1½ ft.high E.of cor.
52.60	Small wash 15 lks.wide 5 ft.deep drains SE.
80.62	The proportionate point for cor. of secs.18 & 19.

Chains. Set an iron post,3 ft.long,3 ins.diam.24 ins. in the ground for cor. of secs. 18 & 19,with brass cap marked

T.12 N.
R 8 W | R 7 W
S 14 | S 18
S 23 | S 19
1914

digpits 24 x 24 x 12 ins., in each sec.,6 ft.dist,; and and raise a mound of earth,4 ft.base,2 ft.high E.of cor.

Land level ,

Soil, fine clay loam,4 to 24 ins. deep, fine texture, moist, on clay subsoil,

No timber.

From the cor. of secs. 18 & 19.

I run

S.0°19'W.on a resurvey line on W.bdy of sec.19.

Over nearly level land draining SE.

4.25 Wire fence bears N.87°30'E.and S.87°30'W.

40.31 The proportionate point for ¼ sec. cor.

Set an iron post,3 ft.long,1 in.in diam. 26 ins.in the ground for ¼ sec. cor. with brass cap marked

¼ S 19
1914

dig pits,18 x 18 x 12 ins. N.and S.of post, 3 ft.dist,; and raise a mound of earth,3½ ft.base 1½ ft.high E.of cor.

48.60 Enter scattering greasewood undergrowth bears E.& W.

59.65 Road from Salt Wells to Cosmo bears NE.& SW.

60.00 Low ridge 12 ft.high bears NE.& SW.

66.30 Leave scattering greasewood undergrowth enter alkali mud flat bears N.E.& S.W.

71.35 Wire fence bears N.74°E.and S.74°W.

80.62 The proportionate point for cor. of secs. 19 & 30.

Set an iron post,3 ft.long,3 ins.diam. 24 ins. in the ground for cor. of secs. 19 & 30. with brass cap marked

Retracement & Resurvey of West Bdy. of T.12 N.R.7 W.

Chains.

T 12 N
R 8 W | R 7 W
S 19
S 23 | S 30
S 26
1914

dig pits 24 x 24 x 12 ins. in each sec., 6 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high E. of cor.

N.66.30 chs. nearly level valley land, soil good clay loam 12 to 20 ins. deep, fine texture, moist, on clay subsoil, S.14.32 chs. alkali mud flat,.

No timber, Undergrowth scattering greasewood.

From the cor. of secs. 19 & 30.

I run

S.0°19'W. on a resurvey line on W. bdy. of sec. 30.

Over alkali mud flat.

5.50 Leave mud flat enter slough with short salt grass bears NE. & SW.

40.31 The proportionate point for ¼ sec. cor.

Set an iron post, 3 ft. long, 1 in. diam. 20 ins. in the ground for ¼ se c. cor. with brass cap marked

¼ S 30
1914

dig pits 18 x 18 x 12 ins., N. & S. of post, 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high E. of cor.

78.75 Wire fence bears N.89°E. & S.89°W.

79.00 Leave slough and salt grass enter mud flat bears E. & W.

80.62 The proportionate point for cor. of secs. 30 & 31.

Set an iron post, 3 ft. long, 3 ins. diam. 24 ins. in the ground, for cor. of secs. 30 & 31. with brass cap marked

T 12 N
R 8 W | R 7 W
S 30
S 26 | S 31
S 35
1914

dig pits 24 x 24 x 12 ins. in each sec., 6 ft. dist.; and raise a mound of earth, 4 ft. base 2 ft. high E. of cor.

Land level alkali mud flat and salt slough.

Chains.	
	No timber.
	From the cor. of secs. 30 & 31
	I run
	S.0°18' W. on a resurvey line on west bdy. of sec. 31.
	Over level mud flat,draining SW.
20.00	Leave mud flat enter clay knolls 2 to 5 ft.high bears NE.& SW.
33.80	Leave clay knolls enter swamp and salt grass bears SW.and NE.
36.50	Open channel in swamp 15 lks. wide 15 ins.deep,alkali water runs SW.
40.00	Leave swamp enter alkali flat bears NE.& SW.
40.31	The proportionate point for ¼ sec.cor.
	Set an iron post,3 ft.long,1 in. diam.26 ins.in the ground ,for ¼ sec. cor.with brass cap marked ,
	¼ S 31
	1914
	dig pits 18 x 18 x 12 ins.,N.and S. of post,3 ft.dist.; and raise a mound of earth,3½ ft.base 1½ ft.high E.of cor.
80.62	The cor. of Tps.11 & 12 N. R.7 W. described in notes of T.11 N.R.7 W.
	Land ,level alkali flat and salt swamp.
	No timber.

John W. Dougall
U.S. Surveyor,
Nov. 12 ,1914,

Retracement of Third Standard Parallel N.Through R.7 W.

Nov.16,1914,For solar this day see line bet. secs. 10 & 11 ,of T.12 N.,R.8 W.

From the NW. cor of Tp.12 N.R.7 W.which is also the St. corner of sec. 36 of T.13 N.,R 8 W. before described

I retrace

East on 3rd. Standard Parallel North bet.secs.6 & 36.

Retracement of Third Standard Parallel N.Bet.Tps. 12 & 13 N.R.7 W

Chains.	
40.15	Fall 1 lk.N.of standard ¼ sec.cor.which is a limestone 8 x 7 x 6 ins. above ground,firmly set,plainly marked ¼ on N. face , small stone mound N.of cor. .
	Note: Deputy Koeber does not report setting a cor.in this position,but this stone was undoubtedly set by him .
	I make this cor. permanent as follows,
	Set an iron post,3 ft.long,1 in.diam.26 ins.in the ground alongside the old cor.,for standard ¼ sec.cor.
	with brass cap marked
	S 36 ¼ S 6 1914
	and rebuild a mound of stone 2 ft.base 1½ ft.high N.of cor.
	Therefore the course of this line is S.89°59'E.and dist.; is 40.15 chs.

	From the standard ¼ sec.cor. bet. secs. 6 & 36.
	I retrace
	East on 3rd.standard parallel N.bet. secs. 6 & 36.
40.02	Fall 1 lk.N.of standard cor.of T.13 N.,Rs.7 & 8 W.which is a limestone 14 x 10 x 18 ins. above ground,firmly set, and surrounded with stones ,plainly marked 5 notches on E.and 1 notch on W.edges,SC.on SE.face .
	This is beyond doubt the cor. set by Deputy Koeber for the standard cor. of T.13 N.,Rs.7 & 8 W.as he eliminates the west range of secs.in T.13 N.R.7 W.,according to his field notes and plats,although the old stone cor.is marked for standard cor.of secs.31 & 32,I accept the cor. as the standard cor.of T.13 N.Rs.7 & 8 W,and secs 5 & 6 of T.12 N.R.7 W.,and make it permanent as follows
	Set an iron post,3 ft.long,3 ins. diam. 24 ins.in the g ground,alongside the old cor.for S.C.of T.13N.Rs.7 & 8 W. and cor.of secs.5 & 6 of T.12 N.R.7 W.with brass cap marked

Retracement of Third Standard Parallel N. Bet. Tps. 12 & 13 N. R 7 W.

Chains.	
	T 13 N. R 8 W | R 7 W S 36 | S 32 S 6 | S 5 T. 12 N. 1914
	from which
	A cedar tree 5 ins. diam. bears N.70°E.1.08 chs. dist., marked T 13 N.R.7 W.S 32 B T .
	A cedar tree 5 ins. diam. bears S.41°E.31 lks. dist., marked T 12 N.R.7 W S 5 B T.
	A cedar tree 5 ins. diam. bears S.50°30'W.45 lks. dist., marked T 12 N R 7 W S 6 B T .
	A cedr tree 4 ins. diam. bears N.30°30'W.1.03 chs.dist., marked T 13 N R 8 W S 36 B T .
	Therefore the course of this line is S.89°59'E.and dist., is 40.02 chs.
	The Gorlinski standard cor.of T.13 N.,R.8 W. which is described in the notes of T.12 N.R.8 W. bears S.45°E. 6.80 chs. dist.
	Nov.16,1914.

	June 6,1914. At 8h00m a.m. apparent time, I set off 41°49' on the lat.arc; 22°37'N. on the decl.arc; and determine a meridian with the solar at the standard cor. of T 13 N., Rs.7 & 8 W. as restored or set by Deputy Koeber.
	Thence I retrace
	East on 3rd. standard parallel N. bet. secs.5 & 32.
39.99	Fall 30 lks. S. of the standard ¼ cor. which is a limestone 18 x 4 x 20 insabove ground, firmly set, plainly marked ¼ on N.face, stone mound S. of cor.
	Therefore the course of this line is N.89°34'E.and dist. is 39.99 chs.

	From the standard ¼ cor. bet. secs. 5 & 32 .
	I retrace
	East bet. secs.5 & 32 on 3rd. standard parallel N.
40.14	Fall 14 lks.N. of the S.C. of secs. 32 & 33.which is a limestone 10 x 8 x 8 ins. loosely set in a stone mound

Retracement of Third Standard Parallel N.Bet. Tps.12 & 13 N.R.7 W.

Chains.	
	plainly marked 4 notches on E.and 2 notches on W.faces SC on S_ face .
	Therefore the course of this line is S.89°48'E.and dist.40.14 chs.

	From standard cor. of secs. 32 & 33.
	I retrace
	East on 3rd.standard parallel N. bet. secs. 4 & 33 .
40.65	Fall 18 lks.N.of the standard ¼ cor.which is a limestone 10 x 5 x 6 ins. above ground,firmly set;plainly marked ¼ on N.face .stone mound S. of cor.
	Therefore the course of this line is S.89°45'E.and dist. is 40.65 chs.

	From the standard ¼ sec. cor. on S. bdy. of sec. 33.
	I retrace
	East on 3rd.standard Parallel N. on S. bdy. of sec. 33
40.43	Fall 76 lks.N.of the ¼ C of secs. 33 & 34 ,which is a limestone 10 x 8 x 7 ins.above ground ,firmly set, plainly marked 3 notches on E.and W. edges. stone mound east of cor.
	Therefore the course of this line is S.88°55'E.and distance is 40.44 chs.
	June 6,1914,At this cor. I set off 22°38'N.on the decl. arc;and at 11 h 53 m l.m.t.,observe the sun on the meridian; the resulting lat.is 41°49'

	From the standard cor. of secs. 33 & 34.
	I retrace
	East on 3rd.standard parallel N.on S.bdy. of sec. 34.
40.38	Fall 8 lks. N.of the standard ¼ cor. which is a limestone 9 x 9 x 4 ins. above ground, firmly set,plainly marked ¼ S C on N. face plain traces of pits and earth mound
	I dig pits 18 x 18 x 12 ins.E.& W.of cor. 3 ft dist.and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor. New pits being dug naturally destroys the old ones.

Retracement of Third Standard Parallel N. Bet. Tps. 12 & 13 N.R.7 W.

Chains.	
	Therefore the course of this line is S.89°53'E. and dist. is 40.38 chs.

	From the standard ¼ cor. on S. bdy. of sec.34.
	I retrace
	East on 3rd. standard parallel N. on S. bdy. sec.34.
40.39	Fall 7 lks. N. of S C of secs. 34 & 35, which is a sandstone 20 x 9 x 5 ins. lying loose on the ground, plainly marked 4 notches on one and 2 notches on opposite edges and S C. on one face. Dim trace of pit NE. Alongside the stone is the remains of an old cedar post, 2 ins. diam. rotted off level with the ground. Probably the remains of the old Troskolawski cor.
	I reset this stone at this point and dig pits, 24 x 18 x 12 ins., crosswise on each line, E. and W. 3 ft. dist., and N. of stone, 7 ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high N. of cor.
	Therefore the course of this line is S.89°54'E. and dist. is 40.39 chs.

	From standard cor. of secs. 34 & 35.
	I retrace
	East on 3rd. standard parallel N. on S. bdy. of sec.35.
40.02	Fall 23 lks. S. of the standard ¼ cor. which is a limestone 8 x 10 x 8 ins. above ground, firmly set, plainly marked ¼ S C on N. face, stone mound 2 ft. base 1½ ft. high N of cor.
	Therefore the course of this line is N89°40'E. and dist. is 40.02 chs.
	Thos. C. Cathcart
	U. S. Transitman.
	June 6, 1914.

	May 19, 1915, At 8 h.05 m. am. apparent time, I set off 41°49' on the lat. arc; 19°38'N. on the decl. arc; and determine a meridian with the solar at the standard ¼ sec. cor. for sec. 35.

Retracement of Third Standard Parallel N.Bet.Tps.7 & 8 N.,R.7 W.

Chains.

cor. here-to-fore described , which I make permanent as follows ,

Set an iron post,3 ft.long,1 in.diam,.26 ins. in the ground ,alongside the old cor. for S C.of ¼ on S.bdy.of sec.35,with brass cap marked

¼
S 35
S 2
1915

and rebuild a stone mound 2 ft. base 2 ft.high N.of cor.

Thence I retrace

East on 3rd.standard parallel N. on S. bdy. of sec.35.

40.33 Fall 6 lks.S.of S.C.of secs.35 & 36,which is a lime stone 8 x 4 x 10 ins. above ground,firmly set, plainly marked 5 grooves onW.1 groove on E. and S C. on N faces,small stone mound N. of cor.

I make this cor. permanent as follows

Set an iron post,3 ft.long,3 ins.diam.24 ins. in the groground,alongside the old cor. for S C of secs. 35 & 36, with brass cap marked

T 13 N R 7 W.
S 35 | S 36
S 2 S 1
T 12 N R 7 W
1915

and rebuild a stone mound 3 ft.base 2 ft.high N. of cor.

Therefore the course of this line is N.89°55'E.and distance is 40.33 chs.

From standard cor.of secs.35 & 36.

I retrace

East on 3rd.standard parallel N.on S.bdy. sec.36.

40.12 Fall 6 lks. S.of standard ¼ cor. which is a hard sandstone 20 x 7 x 8 ins. loosely set in a stone mound,plainly marked ¼ S C on N. face , I make this cor. permanent as follows ,

Set an iron post, 3 ft.long.1 in.in diam. 26 ins. in the ground,alongside the old cor. ,for standard ¼ cor. with brass cap marked

Retracement of Third Standard Parallel N.Bet.Tps.12 & 13 N.R.7 W.

Chains.

$\frac{1}{4}$
S 36

S 1
1915

from which

A cedar tree 8 ins. diam. bears N.42°30'W.54 lks. dist.

marked $\frac{1}{4}$ S 36 B T .

No other trees suitable for marking .

and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high N.of cor.

Therefore the course of this line is N.89°55'E.and dist.

is 40.12 chs.

From the standard $\frac{1}{4}$ cor. on S.bdy. sec.36.

I retrace

East on 3rd.standard.parallel N. on S. bdy. of sec.36.

33.87 Fall 5 lks. S. of C C of T.12 N.,Rs.6 & 7 W.here-to-fore described .

-34.97 Fall 5 lks. S.of standard cor. of T.13 N.,Rs.6 & 7 W. here-to-fore described .

Therefore the course of this line is N.89°55'E.and dist.

is 34.97 chs.

John W. Dougall U.S. Surveyor
May.19,1915.

Boundaries of T.12 N.R 7 W.

Latitudes,departures ,and closing errors,

Line Designated	True Bearing	Dist.	Latitudes N	Latitudes S	Departures E	Departures W
		chs.	chs.	chs.	chs.	chs.
S.bdy.sec.36.	S.89°21'W	40.09		.45		40.09
S.bdy.sec.36	S.89°23'W.	40.14		.43		40.14
S.bdy.sec.35	S.89°56'W.	80.26		.09		80.26
S.bdy.sec.34,	S.89°26'W.	40.16		.40		40.16
S.bdy.sec.34,	N.89°51'W.	40.22	.11			40.22
S.bdy.sec.33,	S.88°58'W.	40.22		.73		40.21
S.bdy.sec.33,	S.89°08'W.	40.14		.61		40.14
S.bdy. sec.32,	West	40.15				40.15
S.bdy.sec.32,	S.89°15'W.	40.08		.52		40.08
S.bdy.sec.31,	S.89°43'W.	40.09		.20		40.09
S.bdy.sec.31,	S.89°52'W.	42.00		.10		42.00
W.bdy.T.12N. R.7 W.	N.0° 19'E.	483.72	483.72		2.67	
N.bdy,sec.6	S.89°59'E	80.17		.02	80.17	
N.bdy,sec.5,	N.89°34'E.	39.99	.30		39.99	
N.bdy.sec.5,	S.89°48'E	40.14		.14	40.14	
N.bdy.sec.4,	S.89°45'E.	40.65		.18	40.65	
N.bdy.sec.4	S.88°55'E.	40.44		.76	40.43	
N.bdy.sec.3,	S.89°53'E.	40.38		.08	40.38	
N.bdy.sec.3,	S.89°54'E.	40.39		.07	40.39	
	SubTotals		484.13	4 .78	324.82	483.54

Boundaries of T.12 N.,R.7 W.

Chains. Latitudes,departures ,and closing errors.

Line designated,	True bearing	Distance	Latitudes N.	Latitudes S.	Departures, E.	Departures, W.
Totals carried forward,			484 .13	4.78	3 24.82	483.54
N.bdy.sec.2,	N.89°40'E.	40.02	.23		40.02	
N.bdy. sec.2,	N.89°55'E.	40.33	.06		40.33	
N.bdy.sec.1,	N.89°55'E.	73.99	.11		73.99	
E.bdy.sec.1,	S.0° 10'E.	78.80		78.80	.23	
E.bdy.sec.12,	S.0° 10'E.	79.70		79.70	.23	
E.bdy.sec.13,	S.1° 28'E.	80.60		80.57	2.06	
E.bdy.sec.24,	S.0° 42'E.	80.22		80.21	.98	
E.bdy.sec.25,	S.0° 42'E.	40.11		40.11	.49	
E.bdy.sec.25,	S.0° 22'E.	40.30		40.30	.26	
E.bdy.sec.36,	S.0° 22'E.	40.30		40.30	.26	
E.bdy. sec.36,	South	40.09		40.09		
Convergency					0.64	
Totals			484.53	484.86	484.31	483.54
				484.53	483.54	Error
Error in lat.				.33	.77	dep.

Dependent Resurvey of Part of the Subdivision of

T. 12 N., R 7 W.

May,15,1915,At 9 h 00 m a.m. ,apparent time ,I set off 41°43' on the lat. arc;18 44' N.on the decl.arc;and determine a meridian with the solar at the restored cor. of secs. 4.5.32,and 33,on S. bdy. of Tp. described in notes of T.11 N.,R.7 W. I run

North retracing the line bet. secs.32 and 33,28 and 29, 20 and 21,16 and 17,8 and 9,and 4 and 5.

Unable after careful search to find any trace of old cors.,set temp.cors. at intervals of 40.00 chs.

482.4 9 Fall 15 lks. W.of S C of secs. 32 & 33 ,here to fore described, I make this cor. permanent as follows,

Set an iron post, 3 ft.long,3 ins.diam. 24 ins. in the ground ,alongside the old cor. for standard cor. of secs. 32 & 33 and cor. of secs. 4 & 5 , with brass cap marked

T 13 N R 7 W
S 32 | S 33
S 5 | S 4
T 12 N R 7 W
1915

and raise a mound of stone 2½ ft,base 2 ft.high N.of cor.

Chains

The sky is overcast and further solar observations impossible .

Note: I return and adjust all temp.cors.on this line to their proportionate meridional positions.

May.15,1915,

May,17 ,1915 ,The sky is overcast and solar observations are impossible.

From the restored cor. of secs. 5 &6 ,31 & 32,on S.bdy. of Tp. described in notes of T.11 N.R 7 W., I run North retracing the line bet.secs. 31 and 32,29 and 30, 19 and 20,17 and 18,7 and 8 ,and 5 and 6.

Unable after careful search to find any trace of old cors. ,set temp.cors. at intervals of 40.00 chs.

483.12 Fall 36 lks.W. of standard cor. of T.13 N.Rs.7 & 8 W. which is also the cor. of secs. 5 & 6 of T.12 N.R.7 W. here to fore described.

Note : I return and adjust all temp.cors.on this line to their proportionate meridional positions.

May,17,1915.

1st.Latitudinal Line.

May,24,1915, At 8 h 05 m a.m. apparent time, I set off 41°44' on the lat.arc; 20°40'N.on the decl.arc; and determine a meridian with the solar at the restored cor. of secs. 25,30,31 & 36,on E. bdy. of Tp.,here to fore described ,.Thence I run

West retracing the line bet.secs. 25 and 36,26 and 35, 27 and 34,and 28 and 33.

Note: The ties to temp.cors. are taken to the adjusted positions of temp.cors. on meridional lines.

320.90 Fall 2.22 chs. N.of temp.cor. of secs. 28,29,32 and 33.

May,24,1915 ,At this temp.cor.,I set off 20°41'N.on the decl.arc;and at 11 h 57 m .l.m.t.,observe the sun on the meridian; the resulting lat. is 41°44'

I continue

Dependent Resurvey of Part of the Subdivision of T.12 N.,R.7 W.

Chains.	
	West retracing the line bet. secs.29 and 32.
80.19	Fall 2.81 chs.N.of temp.cor. of secs.29,30,31 and 32.
	I continue
	West retracing the line bet. secs. 30 and 31.
81.77	Fall 3.14 chs. N. of the reestablished cor. of secs. 30 and 31,on W. bdy. of Tp. here too fore described,
	May,24,1915.
	2nd. Latitudinal Line .
	Note: The ties to temp.cors. are taken to the adjusted positions of temp.cors. on meridional lines.
	May.23,1915, At 7 h 55 m a.m. apparent time , I set off 41°45' on the lat.arc;20°28'N. on the decl.arc;and determine a meridian with the solar at the reestablished cor. of secs. 19,24,25 and 30.here to fore described .
	Thence I run
	West retracing the line bet. secs. 24 and 25,23 and 26, 22 and 27,and 21 and 28.
319.90	Fall 1.96 chs.N. of temp.cor. of secs. 20,21,28 and 29.
	May,23,1915, At this temp.cor. I set off 20°30'N.on the decl.arc; and,at 11 h 57 m .l.m.t. ,observe the sun on the meridian;the resulting lat. is 41°45'
	I continue
	West retracing the line bet. secs. 20 and 29
80.22	Fall 2.42 chs. N. of temp.cor. of secs. 19,20,29 and 30.
	I continue
	West retracing the line bet. secs. 19 and 30.
81.55	Fall 2.70 chs.N.of the reestablished cor. of secs. 19 and 30. on W.bdy.of Tp. here to fore described .
	May,23,1915.
	3rd. Latitudinal Line .
	Note: The ties to temp.cors. are taken to the adjusted positions of temp.cors.on meridional lines.
	May,21,1915,At 8 h 20 m .a.m.,apparent time, I set off

Chains.	
	41°46' on the lat.arc; 20°04' N. on the decl. arc; and determine a meridian with the solar at the restored cor. of secs.13,18,19 and 24, on E. bdy. of Tp. here to fore described .
	Thence I run
	West retracing the line bet.secs.13,and 24,14 and 23, 15 and 22,and 16 and 21,.
318.86	Fall 2.21 chs. N.of temp.cor. of secs. 16,17,20 and 21.
	May,21,1915,At this temp.cor. I set off 20°06'N. on the decl.arc; and,at 11 h 56 m.l.m.t., observe the sun on the meridian the resulting lat. is 41°46'
	I continue
	West retracing the line bet. secs.17 and 20.
80.28	Fall 2.69 chs. N. of the temp.cor. of secs.17,18,19 & 20.
	I continue
	West retracing the line bet. secs.18 and 19.
81.16	Fall 2.94 chs. N. of the reestablished cor. of secs. 18 and 19.on W. bdy. of Tp.here to fore describer.
	May,21,1915.
	4th Latitudinal Line .
	Note: The ties to temp.cors. are taken to the adjusted positions of temp.cors.on meridional lines.
	May, 20,1915, The sky is overcast and solar observations impossible.
	From the restored cor. of secs. 7,12,13 and 18,on E.bdy. of Tp.,
	I run
	West retracing the line bet. secs. 12 and 13,11 and 14, 10 and 15,and 9 and 16.
316.70	Fall 1.34 chs.N.of temp.cor. of secs.8.9.16 and 17.
	I continue
	West retracing the line bet.secs.8 and 17.
80.26	Fall 1.76 chs. N. of temp.cor. of secs.7,8,17 and 18.

Chains.	
	I continue
	West retracing the line bet. secs. 7 and 18.
80.93	Fall 1.92 chs. N.of the reestablished cor. of secs. 7 and 18,on W.bdy. of Tp. previously described .
	May.20,1915.
	5th. Latitudinal line.
	Note:The ties to temp.cors.are then to adjusted positions of temp.cors. on meridional lines.
	May,19,1915 At 10h a.m.,the sky becomes so overcast that further solar observations are impossible.
	From the reestablished cor.of secs.1,6,7 and 12,on E.bdy. of Tp.,previously described .
	I run
	West retracing the line bet. secs.1 and 12,2 and 11,3 and 10,and 4 and9.
316.52	Fall 1.48 chs.N.of temp.cor.of secs. 4,5,8 and 9.
	I continue
	West retracing the line bet. secs.5 and 8.
80.29	Fall 1.70 chs.N.of temp.cor. of secs.5,6,7 and 8.
	May,19,1915.
	May,20,1915, I continue
	West retracing the line bet.secs.6 and 7.
80.51	Fall 1.61 chs.N.of the reestablished cor.of secs. 6 and 7,on W.bdy.of Tp.previously described.
	May,20,1915.
	May,24,1915,
	From the restored cor.of secs.4,5,32 and 33,on S.bdy.of Tp.previously described .
	I run
	N.0°56'W.on a true line bet.secs. 32 and 33.
	Over nearly level land through greasewood undergrowth.
15.00	Wash 20 lks. wide 8 ft.deep drains N.20°W.
40.20½	The proportionate point for ¼ sec. cor.
	Set an iron post,3 ft.long,1 in.diam. 26 ins. in the

Chains.	
	ground,for ¼ sec.cor.with brass cap marked ¼ S 32 | S 33 1915 dig pits 18 x 18 x 12 ins.N.and S. of post,3 ft.dist.: and raise a mound of earth 3½ ft.base 1½ ft.high W.of cor.
49.10	Leave greasewood undergrowth and descend 10 ft.to
49.50	Enter mud flat bears N.80°E.and S.80°W.
74.70	Very samll wash drains W.
80.41	The proportionate point for cor. of secs. 28,29,32 & 33. Set an iron post,3 ft.long,2 ins. diam.,24 ins.in the ground for cor. of secs.28,29,32 and 33,with brass cap marked T 12 N | R 7 W S 29 | S 28 S 32 | S 33 1915 dig pits 18 x 18 x 12 ins.,in each sec.5½ ft.dist. and raise a mound of earth 4 ft.base 2 ft.high W.of cor. S.49.10 chs.nearly level land draining NW; soil stiff clay10 to 20 ins. deep,dry,on clay hardpan. N.31.31 chs. alkali mud flat. No timber,undergrowth greasewoods .
	N.0°05'W.on a true line bet. secs. 28 and 29. Over level mud flat.
35.00	Top of small knoll 1.00 ch.diam.4 ft.high.
40.20	The proportionate point for ¼ sec. cor. Set an iron post,3 ft.long,1 in.diam.26 ins. in the ground,for ¼ sec. cor.with brass cap marked ¼ S 29 | S 28 1915 dig pits 18 x 18 x 12 ins.N.and S.of post,3 ft.dist.and raise a mound of earth 3½ ft.base 1½ ft.high W.of cor.
44.80	Leave mud flat enter greasewood points and knolls bears E.and W.
52.50	Wire fence bears N.80°E and S.80°W.

Dependent Resurvey of Part of Subdivision of T.12 N.R.7 W.

Chains.	
56.40	Leave greasewood knolls and points enter mud flat bears N.60°E.and S.60°W.
72.00	Enter grassy slough water about 2 ins. deep.bears N.30°E and S.30°W.
80.40	The proportionate point for cor. of secs. 20,21,28 & 29. Set an iron post,3 ft.long, 2 ins. diam. 24 ins. in the ground,for cor. of secs. 20,21,28 & 29. with brass cap marked

T 12 N | R 7 W
S 20 | S 21
S 29 | S 28.
1915

dig pits 18 x 18 x 12 ins. in each sec.,5½ ft.dist.; and raise a mound of earth,4 ft. base 2 ft.high W.of cor.

Land ,nearly level mud flats and low clay knolls with small greasewood .

No timber, undergrowth greasewood.

May,24,1915,

May,26,1915. The sky is overcast and solar observations impossible,

N.0°10'W.on a true line bet,.secs. 20 and 21.

Over nearly level land across grassy slough.

10.00	Leave slough bears N.30°E.and S.30°W.
20.40	A Salt Creek 25 lks. wide 2 ft.deep, flows S.40°W.
27.50	A salt slough 1.00 chs wide drains W.5.00 chs. then S.45°W.
31.50	Sand ridge 10 ft.high bears N.80°E. and S.80°W.
38.80	Enter mud flat bears N.80°E.and S.80°W.
40.20	The proportionate point for ¼ sec.cor. Set an iron post,3 ft. long,1 in. diam. 26 ins. in the ground,for ¼ sec. cor. with brass cap marked.

¼
S 20 | S 21
1915

dig pits 18 x 18 x 12 ins.N.and S.of post,3 ft.dist.; and raise a mound of earth 3½ ft.base 1½ ft.high W.of cor.

Chains.	
64.00	Leave mud flat ascend 12 ft. to
64.30	Enter greasewood undergrowth bears E.and W.
69.30	Wire fence bears N.45° W.and S.45°E.
73.50	Road Salt Wells to Cosmo bears N.80°W.and S.80°E.
80.40.	The proportionate point for cor. of secs. 16,17,20 & 21. Set an iron post,3 ft.long. 2 ins. diam. 24 ins in the ground,for cor. of secs.16,17,20 and 21,with brass cap marked

T 12 N S 17	R 7 W S 16
S 20	S 21

1915

dig pits 18 x 18 x 12 ins. in each sec.,5½ ft.dist.; and raise amound of earth 4 ft.base 2 ft.high W.of cor. From this cor.the SW.cor. of W.W.Hickman's pasture fence bears S.2°E.6.80 chs. dist.

The NW.cor . bears N.40°45'E.3.00 chs. dist.

Land level mud flats and low clay knolls and sloughs.

Soil, is clay.

No timber . undergrowth greasewood.

N.0°23'W.on a true line bet. secs.16 & 17.

Ascend gently over rolling valley land through small greasewood undergrowth.

6.90	Road Promontory to Sage Valley bears N.60°W & S.60°E.for 5.00 chs. then S.for 8.00 chs. then S.45°E.
12.00	Leave greasewood enter shad scale bears N80°E.and S.80°W.
35.00	Leave Shad scale enter Greasewood bears N.45°E.and S.45°W.
40.20	The proportionate point for ¼ sec.cor . Set an iron post, 3 ft.long.1 in.diam. 26 ins. in the ground,for ¼ sec. cor. with brass cap marked

¼ S 17	S 16

1915

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

46.60	Wash 12 lks.wide 4 ft.deep drains S.30°W.

Dependent Resurvey of Part of Subdivision of T.12 N.R.,7 W.

Chains.	
55.00	Leave greasewood enter shadscale bears NW.& SE.
80.40	The proportionate point for cor.of secs.8,9,16 and 17.
	Set an iron post, 3 ft.long,2 ins. diam. 24 ins. in the ground, for cor. of secs. 8,9,16 and 17.with brass cap marked
	T 12 N R 7 W S 8 | S 9 S 17 | S 16 1915
	dig pits 18 x 18 x 12 ins.in each sec.,5½ ft.dist. and raise a mound of earth 4 ft. base 2 ft.high W.of cor.
	Land gently rolling , draining SW.
	Soil, good clay loam, 9 to 16 ins. deep, medium texture dry ,of clay subsoil,
	No timber, undergrowth greasewood and shadscale.
	May. 26,1915.

	May,27,1915,
	N.0°10'E. on a true line bet. secs.8 and 9.
	Ascend gently over rolling valley land through shadscale
40.20	The proportionate point for ¼ sec.cor.
	Set an iron post, 3 ft.long,1 in.diam. 26 ins. in the ground for ¼ sec. cor. with brass cap marked
	¼ S 8 | S 9 1915
	dig pits 18 x 18 x 12 ins. N and S. of post, 3 ft.dist.; and raise a mound of earth 3½ ft.base 1½ ft.high W.of cor.
40.35	Leave shadscale enter sage brush bears NW .SE.
42.00	Foot of bench.ascend bears NW.& SE.
50.00	Top of bench 50 ft. high bears N.20°W.and S.20°E.
80.40	The proportionate point for cor. of secs. 4,5,8 and 9.
	Set an iron post,3 ft.long.2 ins. diam. 24 ins. in the ground for cor.of secs. 4,5,8 and 9 . with brass cap, marked
	T 12 N R 7 W S 5 | S 4 S 8 | S 9 1915
	dig pits 18 x 18 x 12 ins. in each sec.,5½ ft.dist.;and

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Chains.	
	raise a mound of earth 4 ft.base 2 ft.high W. of cor.
	Land ,gently rolling SW.slope,
	Soil, good sandy loam,7 to 15 ins. deep, medium texture, dry, underlayed with clay, and gravel.
	No timber, undergrowth sage brush and shad scale,
	May. 27,1915,

	May,28,1915.
	N.1°33'E.on a true line bet.secs.4 and 5.
	Ascend gently over rolling land through sage brush.
30.65	Dim road Hansel Valley to Monument bears NE. and SW.
40.20½	The proportionate point for ¼ sec.cor.
	Set an iron post,3 ft.long.1 in.diam. 26 ins. in the ground,for ¼ sec. cor.with brass cap marked
	¼ S 5 | S 4 1915
	dig pits 18 x 18 x 12 ins. N.and S. of post, 3 ft.dist. and reise a mound of earth 3½ ft.base 1½ ft.high W. of cor.
40.30	Road Hansel Valley to Monument bears N.60°E.& S.60°W.
80.50	The restored cor. of secs. 4 & 5.which is also the S.C. of secs. 32 and 33,on 3rd. standard parallel N. here to fore described.
	Land rolling south slope.
	Soil,good sandy loam with somegravel and stones,medium texture, dry, underlayed with gravel and clay,
	No timber , undergrowth sage brush.
	May. 28,1915,

	May,25,1915. At 7h 54 m .a.m. ,apparent time, I set off 41°43' on the lat. arc;20°51'N. on the decl.arc; and determine a meridian with the solar at the restored cor. of secs. 5,6,31,and 32 on S. bdy. of Tp.here to fore described.
	From this cor. The cor.of Tps.11 and 12 N. Rs.7 & 8 W. as set by Deputy Gorlinski ,which is a limestone 8 x 6 x

Dependent Resurvey of Part of Subdivision of T.12 N.R.7 W.

Chains	
	5 ins. loosely set in a small stone mound, plainly marked 5 notches on E. and 1 notch on W. edges, other marks too dim to read, not witnessed, bears S.66°07'E.11.59 chs. distant.
	Thence I run
	N.1°07'W. on a true line bet. secs. 31 and 32.
	Over level land through white sage.
18.50	Leave white sage enter sage brush bears N.80°E.& S.80°W.
24.00	Leave sage brush enter white sage bears N.80°E.& S.80°W.
40.25½	The proportionate point for ¼ sec. cor.
	Set an iron post, 3 ft.long, 1 in.diam. 26 ins.in the ground, for ¼ sec. cor. with brass cap marked
	¼ S 31 | S 32 1915
	dig pits 18 x 18 x 12 ins. N.and S.of post, 3 ft.distant and raise a mound of earth 3½ ft.base 1½ ft.high W.of cor.
41.50	Leave white sage bears E.and W.
41.65	Enter mud flat 6 ft. below white sage flat bears E.and W. extends W 3.00 chs. then NW.
50.00	Leave mud flat ascend 6 ft.to
51.00	Enter shad scale flat bears N.60°E.& S.60°W.
61.20	Leave shad scale flat descend 7 ft. to
62.00	Enter mud flat bears N.80°E.and S.80°W.
63.10	Dry bed of a slough drains S.80°W.
68.00	Salt slough 20 lks.wide 10 ins. deep drains S.75°W.
80.51	The proportionate point for cor. of secs.29,30,31,and 32.
	Set an iron post, 3 ft.long, 2 ins. diam. 24 ins. in the ground for cor.of secs.29,30,31 and 32. with brass cap, marked
	T 12 N R 7 W S 30 | S 29 S 31 | S 32 1915
	dig pits 18 x 18 x 12 ins. in each sec., 5½ ft.dist.; and raise a mound of earth 4 ft.base 2 ft.high W.of cor.
	Land, level

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Dependent Resurvey of Part of Subdivision of T.12 N.,R.7 W.

Chains.	
	S. 41.50 chs. whitesage flat ;good sandy loam 7 to 14 ins. deep, fine texture , moist,on clay subsoil,balance of mile alkali mud flats and clay banks,with a shad scale flat.
	No timber,undergrowth sage brush ,white sage and shad scale,
	---
	From the cor. of secs. 28,29,32 and 33.
	I run
	S.89°35'W.on a true line bet.secs.29 and 32.
	Over mud flat nearly level.
40.24½	The proportionate point for ¼ sec. cor.
	Set an iron post ,3 ft.long, 1 in. diam. 26 ins. in the ground for ¼ sec. cor. with brass cap marked
	¼ S 29 S 32 1915
	dig pits 18 x 18 x 12 ins. E,and W.of post,.3 ft.dist.; and raise a mound of earth 3½ ft.base 1½ ft.high N.of cor.
42.20	Slough 50 lks. wide drains S.30°W.
54.00	Enter clay knolls bears N.and S.
56.00	Leave same bears N.and S.
80.49	The reestablished cor. of secs. 29,30,31 and 32.
	Land , alkali mud flat and clay knolls,
	No timber.

	From the reestablished cor. of secs.29,30,31 and 32.
	I run
	S.89°46'W.on a true line bet. secs. 30 and 31.
	Over level alkali mud flat.
32.30	Enter grassy slough bears N.40°E.and S.40°W.
36.30	Leave same bears N.40°E.and S.40°W.
40.26½	The proportionate point for ¼ sec.cor.
	Set an iron post, 3 ft.long,1 in.diam. 26 ins. in the ground,for ¼ sec. cor. with brass cap marked

Dependent Resurvey of Part of Subdivision of T.12 N.R.7 W.

Chains.	
	$\frac{1}{4}$ S 30 / S 31 1915
	dig pits 18 x 18 x 12 ins. E.and W.of post,3 ft.dist. and raise a mound of earth $3\frac{1}{2}$ ft.base $1\frac{1}{2}$ ft.high N.of cor.
49.50	A Salt Creek (dead water) 30 lks. wide 2 ft.deep runs S.30°W.
80.13	The reestablished cor.of secs. 30 and 31, on W.bdy.of Tp. previously described .
	Land , level alkali mud flats and sloughs.
	No timber.
	May,25,1915 ,At this cor.I set off 20°52'N.on the decl. arc; and at 11 h,57 m,l.m.t.,observe the sun on the meridian the resulting lat. is 41°44'.
	N.0°02'W.on a true line bet. secs.29 and 30.
	Over level land across alkali mud flat.
17.30	Wire fence bears N.76°E.and S.76°W.
30.00	Leave mud flat enter scattering greasewood undergrowth, bears E. and W.
40.25	The proportionate point for $\frac{1}{4}$ sec.cor.
	Set an iron post, 3 ft.long, 1 in.diam.26 ins. in the ground,for $\frac{1}{4}$ sec. cor. with brass cap marked
	$\frac{1}{4}$ S 30 | S 29 1915
	dig pits 18 x 18 x 12 ins. N.and S.of post, 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base $1\frac{1}{2}$ ft.high W.of cor.
43.00	A Salt Creek 10 lks. wide 14 ins. deep runs S.40°W.
52.50	Leave scattering greasewood undergrowth enter alkali mud flat bears N.45°E.and S.45°W.
80.50	The proportionate point for cor. of secs.19,20,29 & 30.
	Set an iron post, 3 ft.long, 2 ins. diam. 24 ins. in the ground, for cor. of secs. 19,20,29 and 30 ,with brass cap marked
	T 12 N R 7 W S 19 | S 20 S 30 | S 29 1915

Dependent Resurvey of Part of Subdivision of T.12 N.R.7 W.

Chains.	
	dig pits 18 x 18 x 12 ins. in each sec., $5\frac{1}{2}$ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	From this cor. SW. cor. of wire fence bears N.43°W. 3.00 chs. dist.
	W.W. Hickmans stable bears N.83°35'E.
	Land, level alkali flats and greasewood flats.
	No timber, undergrowth greasewood.

	From the reestablished cor. of secs. 20, 21, 28 and 29.
	I run
	S.89°40'W. on a true line bet. secs. 20 and 29.
	Over nearly level land across grassy slough.
2.00	Leave grassy slough bears N.30°E. and S.30°W.
2.70	Wire fence bears N.0°40'W. and S.0°40'E.
14.50	Slough 50 lks. wide drains S.35°W.
19.50	Slough 50 lks. wide drains S.27°W.
25.00	Slough 20 lks. wide drains S.40°W.
40.22	The proportionate point for $\frac{1}{4}$ sec. cor.
	Set an iron post, 3 ft. long, 1 in. diam. 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. with brass cap marked
	$\frac{1}{4}$ S 20 / S 29 / 1915
	dig pits 18 x 18 x 12 ins. E. and W. of post, 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high N. of cor.
	From this cor W.W. Hickmans stable bears N.62°40'W.
61.00	Enter alkali mud flat, bears N.20°E. and S.20°W.
80.44	The reestablished cor. of secs. 19, 20, 29 and 30.
	Land, level alkali flat and sloughs.
	No timber.

	From the reestablished cor. of secs. 19, 20, 29 and 30.
	I run
	S.89°48'W. on a true line bet. secs. 19 and 30.
	Over level alkali mud flat.
5.00	Enter grassy slough bears N.40°E. and S.40°W.
40.18	The proportionate point for $\frac{1}{4}$ sec. cor.

Dependent Resurvey of Part of the Subdivision of T.12 N.R.7 W.

Chains.	
	Set an iron post,3 ft.long,1 in. diam., 26 ins.in the ground,for ¼ sec. cor. with brass cap marked
	¼ S 19 S 30 1915
	dig pits 18 x 18 x 12 ins. E and W. of post 3 ft dist.; and raise a mound of earth 3½ ft,base 1½ ft. high N.of cor.
73.-90	Leave grassy slough enter alkali flat bears N.35°E.and S.35°W.
79.80	The reestablished cor. of secs. 19 and 30, on W,bdy.of Tp. previously described .
	Land ,level alkali flat and grassy sloughs .
	No timber.
	May,25,1915

	May 26,1915,
	N0°10'E. on a true line bet. secs. 19 and 20.
	Over level alkali mud flat.
1.50	Wire fence bears E.and W.
5.00	Enter grassy slough bears N.35°E.and S.35°W.
22.00	Leave grassy slough enter mud flat bears N.35°E.& S.35°W.
32.55	Wire fence bears N.2°40'E.and S.2°40'W.
40.25	The proportionate point for ¼ sec. cor.
	Set an iron post, 3 ft.long,1 in.diam. 26 ins. in the ground, for ¼ sec. cor. with brass cap marked
	¼ S 19 | S 20 1915
	dig pits, 18 x 18 x 12 ins. N.and S. of post, 3 ft.dist.; and raise a mound of earth 3½ ft,base 1½ ft.high W.of cor.
46.75	Leave mud flat enter greasewoods bears E. and W.
60.82	NW. cor of fence bears East 1.30 chs. dist.
61.20	Road Salt Wells to Monument bears N.70°E.and S.70°W.
62.30	Leave greasewoods enter alkali mud flat bears E.and W.
67.60	Leave alkali mud flat enter greasewoods bears E.and W.
77.30	Leave greasewoods descend 12 ft.to

Dependent Resurvey of Part of Subdivision of T.12 N.R.7 W.

Chains.	
77.70	Enter alkali mud flat bears N.20°E.and S.20°W.
80.50	The proportionate point for cor. of secs. 17,18,19 & 20. Set an iron post, 3 ft.long,2 ins.diam. 24 ins. in the ground for cor.of secs. 17,18,19 and 20,with brass cap marked

T 12 N R 7 W
S 18 | S 17
S 19 | S 20
1915

dig pits 18 x 18 x 12 ins. in each sec.,5½ ft.dist.;and raise a mound of earth 4 ft.base 2 ft.high W. of cor.
Land level alkali mud flats and clay banks,
No timber, undergrowth greasewood.

From the reestablished cor of secs. 16,17,20 and 21.
I run
S.89°39'W. on a true line bet. secs. 17 and 20.
Over very gently rolling land through small greasewood undergrowth.

8.50	Leave greasewood's enter mud flat,bears N.and S.
11.50	Road Salt Wells to Monument bears N.85°W.and S.85°E.
19.80	Point of greasewood clay bank projects S.into mud flat.
23.50	Road Salt Wells to Monument bears N.45°E. and S.45°W.
23.60	Wash 30 lks. wide 5 ft.deep drains S. also road Salt Wells to Monument bears N.45°W. and S.45°E.
25.00	Leave alkali mud flat enter greasewood flat bears N.& S.
29.75	Leave greasewood flat enter alkali mud flat bears N. 80°W. and S.80°E
37.90	Road Salt Wells to Monument bears N.30°E.and S.30°W.
39.25	Clay spur 7 ft. high projects S.
40.03	The proportionate point for ¼ sec. cor. Set an iron post, 3 ft.long, 1 in. diam. 26 ins. in thee ground, for ¼ sec. cor. with brass cap marked

¼
S 17
S 20
1915

dig pits 18 x 18 x 12 ins. E.and W. of post,3 ft.dist.;

Chains.	
	and raise a mound of earth 3½ ft.base 1½ ft.high N.of cor.
66.00	Leave alkali mud flat bears N.45°Eand S.45°W. enter
[illegible]	greasewood flat .
77.50	Leave greasewood flat enter alkali mud flat bears N.30°E and S.30°W.
80.06	The reestablished cor. of secs. 17,18,19 and 20.
	Land gently rolling and alkali flats.
	No timber, undergrowth greasewood.

	From the reestablished cor. of secs. 17,18,19 & 20.
	I run
	S.89°49'W.on a true line bet.secs. 18 and 19,
	Over level land across alkali mud flat.
13.00	Wash 20 lks. wide 4 ft.deep drains SE.
21.90	Leave alkali mud flat enter greasewood flat bears N.20°W.and S.20°E.
40.06	The proportionate point for ¼ sec. cor.
	Set an iron post,3 ft.long ,1 in.diam. 26 ins. in the ground for ¼ sec. cor. with brass cap marked
	¼ S 18 / S 19 1915
	dig pits 18 x 18 x 12 ins. E and W. of post, 3 ft.dist.; and raise a mound of earth 3½ ft.base 1½ ft.high N.of cor.
65.00	Leave greasewood undergrowth bears N.and S.
71.14	Wire fence bears N. and S.
79.59	The reestablished cor. of secs. 18 and 19 on W. bdy.of Tp. previously described.
	East 21.90 chs. alkali mud flat. West 57.69 chs. greasewood flat. soil, light clay loam ,5 to 12 ins.deep, medium texture, dry. on clay subsoil.
	No timber, undergrowth greasewood.
	May. 26,1915.

	May,27,1915,

Chains.	
	May 27,1915 ,
	N.0°07'W. on a true line bet. secs. 17 and 18.
	Over nearly level mud flat near east side of same.
40.25	The proportionate point for ¼ sec. cor.
	Set an iron post,3 ft.long,1 in.diam. 26 ins. in the ground, for ¼ sec. cor. with brass cap marked
	¼ S 18 | S 17 1915
	dig pits 18 x 18 x 12 ins.N.and S.of post,3 ft.dist.; and raise a mound of earth 3½ ft. base 1½ ft.high W.of cor.
57.90	Leave mud flat ascend 10 ft. to
58.10	Enter greasewood flat bears N.80°E.and S.80°W.
67.00	Road Promontory to Sage Valley bears N.80°W.and S.80°E.
80.50	The proportionate point for cor. of secs. 7,8,17 and 18.
	Set an iron post, 3 ft.long,2 ins. diam. 24 ins. in the ground,for cor. of secs. 7,8,17 and 18,with brass cap marked
	T 12 N R 7 W S 7 | S 8 S 18 | S 17 1915
	dig pits 18 x 18 x 12 ins.in each sec.,5½ ft.dist. and raise a mound of earth 4 ft.base 2 ft.high W.of cor.
	S.58.10 chs. alkali mud flat, N. 22.40 chs. greasewood flat with good sandy loam 9 to 16 ins. deep, medium texture , moist. on clay subsoil,
	No timber, undergrowth greasewood,.

	From the reestablished cor. of secs. 8,9,16 and 17 I run
	S.89°42'W. on a true line bet. secs.8 and 17.
	Over gently rolling land through shad scale.
39.85½	The proportionate point for ¼ sec. cor.
	Set an iron post,3 ft.long,1 in.diam.26 ins. in the ground,for ¼ sec. cor. with brass cap marked

Dependent Resurvey of Part of Subdivision of T.12 N.R.7 W.

Chains.	
	$\frac{S\ \frac{1}{4}\ 8}{S\ \ 17}$ 1915
	dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft.dist.; and raise a mound of earth 3½ ft.base 1½ ft.high N.of cor.
40.25	Low sandy spur 5 ft.high projects S.enter greasewoods.
79.71	The reestablished cor. of secs.7,8,17 and 18.
	Land gently rolling draining south ,
	Soil ;good sandy loam ;7 to 12 ins. deep, medium texture moist,on clay subsoil,
	No timber, undergrowth greasewood and shadscale.
	May,27,1915,At this cor. I set off 21°13'Non the decl. arc; and ,at 11 h 57 m.,l.m.t. observe the sun on the meridian;the resulting lat. is 41°47'
	From the reestablished cor. of secs. 7,8,17 and 18.
	I run
	S.89°53'W. on a true line bet. secs. 7 and 18.
	Over nearly level land through greasewoods.
14.00	Small swale drains S.
29.85	Road Promontory to Sage Valley bears N.60°W.and S.60°E.
39.88	The proportionate point for ¼ sec. cor.
	Set an iron post, 3 ft.long, 1 in.diam.26 ins. in the ground, for ¼ sec. cor. with brass cap marked
	$\frac{S\ \frac{1}{4}\ 7}{S\ \ 18}$ 1915
	dig pits 18 x 18 x 12 ins. E.and W.of post,3 ft.dist.; and raise a mound of earth 3½ ft.base 1½ ft.high N.of cor.
	May,27,1915; At 2h 00 m.,p.m. ,apparent time ,I set off 41°47'on the lat. arc;21°14' N. onthe decl.arc;and determine a meridian with the solar at reestablished ¼ sec. cor. bet.secs.7 and 18.
	I continue
	S.89°53'W.bet. secs.7 and 18.

Dependent Resurvey of Part of Subdivision of T.12 N.R.7 W.

Chains.	
75.00	Leave greasewoods bears N.10°E.and S.10°W.
79.13	The reestablished cor,of secs.7 and 18, on W.bdy.of Tp. previously described.
	Land nearly level,
	Soil,good brown sandy loam, 9 to 16 ins. deep, medium texture , moist, on clay subsoil,
	No timber, undergrowth greasewood.
	May,27,1915.

	May 28,1915,At 9h.a.m., apparent time, I set off 41°47' on the lat.arc;21°22'N.on the decl.arc; and determine a meridian with the solar at the reestablished cor of secs. 7.8,17 and 18.
	Thence I run
	N.0°12'E.on a true line bet. secs. 7 and 8.
	Over nearly level land through greasewoods.
22.50	Leave greasewoods enter sage brush bears E.and W.
40.25	The proportionate point for ¼ sec.cor.
	Set an iron post, 3 ft.long, 1 in .diam. 26 ins. in the ground for ¼ sec. cor. with brass cap marked
	¼ S 7 | S 8 1915
	dig pits 18 x 18 x 12 ins. N and S. of post, 3 ft.dist.; and raise a mound of earth 3½ ft.base 1½ ft.high W. of cor.
76.75	Road Hansel Valley to Monument bears N 45 °E and S.45°W. also begin gentle ascent bears NE.and SW.
80.50	The proportionate point for cor. of secs. 5,6,7 and 8.
	Set an iron post , 3 ft.long,2 ins. diam. 24 ins. in the ground for cor,.of secs.5,6,7 and 8,with brass cap marked
	T 12 N R 7 W S 6 | S 5 S 7 | S 8 1915
	dig pits 18 x 18 x 12 ins. in each sec. 5½ ft dist.;and raise a mound of earth 4 ft. base 2 ft.high W. of cor.
	Land very gently rolling S.slope .

Dependent Resurvey of Part of Subdivision of T.12 N.R.7 W.

Chains.	
	Soil, good brown sandy loam ,7 to 13 ins. deep, medium texture,dry, on clay subsoil,
	No timber,undergrowth sage brush and greasewoods.
	May,28,1915 ,The sky becomes overcast and further solar observations are impossible,
	From the reestablished cor.of secs. 4,5,8 and 9.
	I run
	S.89°51'W.on a true line bet. secs. 5 and 8.
	Descend gently over rolling land through sage brush.
9.00	Foot of descent 45 ft. below sec.cor. thence along S. slope .
39.85½	The proportionate point for ¼ sec. cor.
	Set an iron post,3 ft.long.1 in. diam. 26 ins. in the ground for ¼ sec. cor. with brass cap marked
	¼ S 5 / S 8 / 1915
	dig pits 18 x 18 x 12 ins. E and W.of post,3 ft.dist.: and raise a mound of earth 3½ ft. base 1½ ft.high N.of cor.
44.75	Wash 10 lks. wide 2 ft.deep drains S.
57.25	Wash 7 lks. wide 2 ft. deep drains S.
70.05	Road Hansel Valley to Monument bears N.40°E.and S.40°W.
79.71	The reestablished cor. of secs. 5,6,7 and 8.
	Land gently rolling S. slope ,
	Soil, good brown sandy loam, 5 to 11 ins. deep,medium texture, dry underlayed with clay and gravel.
	No timber, undergrowth sage brush.
	From the reestablished cor. of secs. 5,6,7 and 8.
	I run
	N.89°56'W.on a true line bet. secs. 6 and 7.
	Ascend gently through sage brush.
22.95	Foot Hills of Hansel Mts. ascend abruptly bears NE.& SW.
29.00	Top of abrupt ascent thence gentle ascent bears NE.& SW.
39.82	The proportionate point for ¼ sec.cor.

Dependent Resurvey of Part of Subdivision of T.12 N.,R.7 W.

Chains.	
	Set an iron post,3 ft.long,1 in. diam. 26 ins. in the ground,for ¼ sec. cor. with brass cap marked
	¼ S 6 / S 7 1915
	and raise a mound of stone 3 ft.base 2 ft.high N. of cor. This cor .is 200 ft. above sec. cor.
40.25	Begin abrupt ascent bears N.and S.
47.00	Top of abrupt ascent thence gentle ascent to
64.00	Top of Spur 125 ft. above ¼ sec. cor. projects S.thence gentle descent .
78.94	The reestablished cor. of secs.6 and 7,on W. bdy.of Tp. previously described.
	This cor. is 75 ft. below top of spur.
	E.22.95 chs. gently rolling land draining SE.;
	Soil, good brown sandy loam,4 to 10 ins. deep, medium texture, dry, on clay subsoil; W.55.99 chs. foot hills gravelly and stony slightly washed on slopes.
	No timber. undergrowth sage brush.

	N.1°10'E. on a true line bet. secs. 5 and 6.
	Ascend gently over rolling land through sage brush,
40.25½	The proportionate point for ¼ sec.cor.
	Set an irom post,3 ft.long,1 in.diam. 26 ins. in the ground ,for ¼ sec.cor. with brass cap marked
	¼ S 6 | S 5 1915
	dig pits 18 x 18 x 12 ins.N.and S. of post,3 ft.dist.: and raise a mound of earth 3½ ft.base 1½ ft.high W.of cor.
46.00	Begin abrupt ascent of foot hills of "Hansel Mts." bears N.45°E.and S.45°W.
61.00	Top of abrupt ascent thence gentle ascent bears N.40°E. & S.40°W.
73.60	Dim wood road bears N.80°E.and S.80°W.
76.00	Foot of bench and enter scattering cedar timber bears E.and W.

Dependent Resurvey of Part of Subdivision of T.12 N.,R.7 W.

Chains.	
77.50	Top of bench 75 ft.high bears N.80°E.and S.80°W. thence ascend gently.
80.63	The restored standard cor. of T.13 N.,Rs.7 & 8 W which is also the cor. of secs. 5 & 6 of T.12 N.R.7 W. previously described.

Land, gently rolling and rolling foot hills sloping SE. Soil on S. 46.00 chs. good brown sandy loam ,4 to 17 ins. deep,medium texture, dry, underlayed with clay and limestone ,N.34.63 chs. series of slopes and benches ,stony slightly washed on slopes, limestone formation.

Timber ,scattering cedar;undergrowth sage brush.

John W. Dougall U.S. Surveyor. May. 28,1915.

GENERAL DESCRIPTION

This fractional township has a variety of land from flats to rolling hills,and the soil ranges from alkali to good brown sandy loam. The soil along the foothills is in general good sandy loam capable of being dry farmed and has a fair growth of sage brush and greasewood undergrowth. There is no water available at the present time for irrigation on any of the foot hills or adjacent lands. There is some alkali water from Salt Wells which flows across the southern part of this fractional Tp. causing swamps and sloughs from which some salt grass is harvested for rough hay .

W.W.Hickman owns and claims lands in secs.19,20,29 and 30.

From surface indications the NW.cor.of sec.5 and NE.of sec.6 have large deposits of limestone.

A scattered growth of scrub cedar timber is found in NW. cor. of sec.5.

John W. Dougall
U.S. Surveyor

Thos. A. Talbot
U.S. Transitman
(for surveys in 1914)

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BOOK A-410

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, John W. Dougall and Thomas C. Rathbone, U. S. Transitman, U. S. Surveyor, during the periods and in the capacities stated opposite our several signatures, in ~~surveying~~ retracing and resurveying all those parts or portions of the Third Standard Parallel N. bet. Tps. 12 and 13 N. through Range 7 W. Retracement and resurvey of the East and the West boundaries of T.12 N.R.7 W. and the resurvey of part of the subdivision of T.12 N.R. 7 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~~ them, and under ~~his~~ their direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	
Elliot Bird	Oct. 20 1914	Nov. 30, 1914	Chainman
	May 10 1915	May 31 1915	
Robt. B. Kinnebrew	Oct. 1, 1914	Nov. 30, 1914	Chainman
	May 10, 1915	May 31, 1915	
Ralph A. Groesbeck	May 11, 1915	May 31, 1915	Chainman
Ralph A. Groesbeck	May 12 1915	May 20, 1915	Flagman
Carl Ray	June 6 1914	July 7 1914	Chainman
Barnum Blackwood	June 6 1914	Nov 18 1914	Chainman

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

John W. Dougall
U. S. Surveyor.

6—2764

FINAL OATH OF UNITED STATES SURVEYOR.

I, John W. Dougall, U. S. Surveyor, do solemnly swear that, in pursuance of ~~special~~ instructions received from the U. S. Surveyor General for Utah, bearing date of the April, 23. 1914 and Oct. 7, 1914 day of and Nov. 10, 1914 respectively, 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~~ retraced & resurveyed all those parts or portions of the Third Standard Parallel N. bet. Tps. 12 and 13 N. through Range 7 W. East and the West boundaries of T.12 N.R.7 W. and the West two ranges of sections of T.12 N.R.7 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 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 Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

John W. Dougall
U. S. Surveyor.

Subscribed by said John W. Dougall, and sworn to before me this 18th day of April, 1916

M. C. Thoresen

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 been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys 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.

6—2761

BOOK A-410

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, John W. Dougall and Thomas C. Rathbone, U. S. Transitman, U. S. Surveyor, during the periods and in the capacities stated opposite our several signatures, in retracing and re-surveying all those parts or portions of the Third Standard Parallel North, R. 7 W. and the east and west boundaries of Township 12 North, Range 7 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 them, and under their 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.	
[illegible]			
[illegible]			
Gordon L. Brooks	June 6, 1914	July 7, 1914	Chainman.
Fred Coffman	June 6, 1914	July 7, 1914	Chainman.
Impson M. Michael	Nov. 12, 1914	Nov. 12, 1914	Flagman.
J. Knowlton Reese	June 6, 1914	July 7, 1914	Flagman.
Elliot Baird	Oct. 24, 1914	Nov. 2, 1914	Chainman.
[illegible]			
Joel D. Smith	Nov. 12, 1914	Nov. 12, 1914	Chainman.
Elvin Bingham	Oct. 24, 1914	Nov. 2, 1914	Flagman.

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

John W. Dougall
U. S. Surveyor.

6—2761

TRANSITMAN.

FINAL OATH OF UNITED STATES ~~SURVEYOR~~.

I, Thomas C.Rathbone, Transitman U. S. ~~Surveyor~~, do solemnly swear that, in pursuance of ~~special~~ instructions received from the U. S. Surveyor General for Utah bearing date ~~of the~~ April 23 ~~day of~~ 1914, Oct. 7, and Nov. 10, 1914, respectively, 191 4, 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, retraced and re-surveyed all those parts or portions of east boundary of Township 12 North, Range 7 West, and retraced the Third Standard Parallel North, between Townships 12 and 13 North, through Range 7 We

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 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 Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Thos. C. Rathbone

~~U. S. Surveyor.~~
U.S.Transitman.

Subscribed by said Thomas C.Rathbone, and sworn to before me this 18 day of April, 191 6

SEAL

M. C. Thoresen

U.S.Surveyor-General
for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
Salt Lake City, Utah, April 18, 191 6

The foregoing field notes of the ~~survey of~~ retracement of the Third Standard Parallel North, through Range No.7 West; retracement and resurvey of the east and west boundaries, and dependent resurvey of part of the subdivision of Township No.12 North, Range No.7 West of the Salt Lake Base and Meridian, Utah,

executed by John W.Dougall and Thomas C.Rathbone under ~~his~~ their special instructions dated April 23,1914,Oct.7,1914 and Nov.10, 1914,respectively, ~~191~~, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the retracement and re-surveys they describe, are hereby approved.

M. C. Thoresen

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.

6—2761

U. S. Surveyor General.

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BOOK A-410
C.

FIELD NOTES

OF THE ~~SURVEY OF THE~~

RETRACEMENT OF PORTION OF WEST BOUNDARY

OF

TOWNSHIP NO.13 NORTH, RANGE NO.7 WEST

AND

METES AND BOUNDS SURVEY OF CLAIM IN SECTION 36,T.13 N.R.8 W.

Of the SALT LAKE BASE AND *Meridian,*

in the State of UTAH

EXECUTED BY

JOHN W.DOUGALL AND THOMAS C.RATHBONE

and Transitman

in the capacity of U. S. Surveyor, under instructions dated April 23, *191*4,
and supplemental special instructions dated Nov.19, 1914,
issued by the United States Surveyor General to govern surveys included in

Group No. 32, *which were approved by the Commissioner of the General Land*
Dec.3, 1914, respectively
Office, May 23, 1914, and ~~19XX~~, *pursuant to authority contained in the Act of*

Congress dated ....., *191*...

Survey commenced May 27, *191*4.

Survey completed November 28, *191*4.

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BOOK A-110

INDEX DIAGRAM.

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

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31	32	33	34	35	36

SURVEY OF TRACT 37, SEC. 36, T.13 N.R.8 W?

Chains	
	Survey commenced May 27, 1914, and executed with a Young & Sons light mountain transit No.8518, with solar attachment. For description of instrument and test on Polaris meridian see notes of T.11 N.R.7 W.
	May 27: At 7h 57m a.m.l.m.t., I set off 41° 48' 30" on lat.arc, 21° 14' 30" N.on decl.arc; and determine a meridian with the solar at the stone marked for the standard cor.of T.13 N.Rs.7 and 8 W., which is one mile west of the standard cor.of secs.31 and 32 set by Edward W.Koeber, U.S.Deputy Surveyor, and reported by him as the standard township corner. Both corners hereinafter described.
	Thence I run
	North, retracing between secs.35 and 36, according to the survey of E. W. Koeber, U.S.Dep.Surveyor, and between secs.31 and 36, according to the position of the survey by J.Troskolawski, U.S.Dep.Surveyor.
40.06	Fall 63 lks.E.of a limestone 10 x 7 x 6 ins.above ground, firmly set, plainly mkd.¼ on W.face, witnessed by a mound of stone E.of cor. This corner was undoubtedly set by Edward W.Koeber, U.S.Dep.Surveyor for the ¼ sec. cor.between secs.31 and 36, although he reports surveying the range line one mile east of here.
	The course of this line is therefore N.0° 54'W. 40.06 chs.
	May 27: At this cor.I set off 21° 16'N.on the decl.arc, and at apparent noon observe the sun on the meridian; the resulting lat.is 41° 49' 30" .
	From the stone marked as ¼ sec.cor., I run north
40.19	Intersect a limestone 5 x 6 x 10 ins.above ground, firmly set, plainly mkd. with 5 notches on N.and 1 notch on S. edge, witnessed by a mound of stone E.of cor. This cor. undoubtedly set by Edward W.Koeber, U.S.Dep.Surveyor, although not reported by him. This stone is in the correct position for the cor.of secs.25,30,31, and 36 according to the system of surveys by Joseph Troskolawski, U.S.Dep.Surveyor.

SURVEY OF TRACT 37, SECTION 36, T.13 N.R.8 W.

Chains.	
	The course of this line is therefore north and the distance 40.19 chs. May 27, 1914. John W. Dougall U.S.Surveyor.
	Nov.26, 1914: Survey commenced Nov.26, and executed with a Keuffel & Esser transit No. 20575, with Smith solar attachment. For description of instrument and test on a Polaris meridian see notes of T.11 N.R.7 W. From continuous tests I am assured that my instrument is now in good adjustment.
	Nov.26: At 8h 47m a.m.l.m.t. I set off 41° 48' 30" N.on lat.arc; 20° 50'S.on decl.arc; and determine a meridian with the solar at old standard cor.of secs.31 and 32, as set by Deputy Edward W.Koeber, and reported as the standard cor.of Tp.13 N., Rs.7 and 8 W., heretofore described.
	Thence I run
	North, retracing between secs.32 and 36, according to Edward W.Koeber, U.S.Dep.Surveyor.
40.00	No trace of the old ¼ sec.cor. Set temp. cor.
60.00	Set temp.cor.
80.00	No trace of the old cor.of secs.29 and 32 reported as set by Deputy Edward W.Koeber. Set temp.cor.for secs.29 and 32. Thos. C. Rathbone U.S.Transitman.
	Nov.26,1914: At 8h 47m a.m.l.m.t., I set off 41° 51' 30" on lat.arc; 20° 50'S.on decl.arc; and determine a meridian with the solar at the cor.of secs.17 and 20 on the west boundary of T.13 N.R.7 W., as reported by Deputy Edward W.Koeber, which is a limestone 12 x 6 x 7 ins.above ground, firmly set, plainly mkd. with 5

SURVEY OF TRACT 37, SECTION 36, T.13 N.R.8 W.

Chains.

notches on E. edge and 3 notches on the S.edge, witnessed by a mound of stone west of corner.

Thence I run

South, retracing along W.bdy.of sec.20.

40.00 No trace of the old ¼ sec.cor.

80.00 No trace of the cor.of secs.20 and 29.

Nov.26: At this point I set off 20° 52' 30" S.on the decl.arc, and at apparent noon observe the sun on the meridian; the resulting lat.is 41° 50' 30" N.

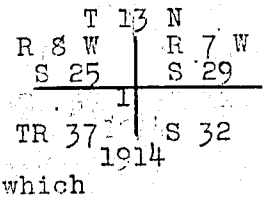
South, retracing along west bdy.of sec.29,

40.00 No trace of the old ¼ sec.cor.of sec.29.

86.66 Fall 5.52 chs.E.of the temp.cor.of secs.29 and 32 set from the south.

The true course of these three miles on the W.bdy.of T. 13 N.R.7 W. will therefore be N.1° 17'E., and the miles 82.26 chs.

The true restored point for cor.of secs.29 and 32 will therefore be 2.24 chs.N.and 1.84 chs.E.of the temp. point for secs.29 and 32 from the south. At this point I set an iron post 3 ft.long, 3 ins.dia., 24 ins.in the ground, for cor.of secs.25,29, 32, and Cor.No.1 Tract 37, with brass cap mkd.



From which

A cedar 5 ins.dia., bears N.38° E.54 lks.dist. mkd.T 13 N R 7 W S 29 B T

A cedar 6 ins.dia., bears S.72° 30'E.82 lks.dist. mkd.T 13 N R 7 W S 32 B T

A cedar 6 ins.dia.bears S.62° 30'W.54 lks.dist. mkd.T 13 N R 8 W Tr.37 Cor.1 B T

A cedar 5 ins.dia.bears N.70° 30'W.23 lks.dist.

METES AND BOUNDS OF TRACT 37 SEC.36 T.13 N.R.8 W.

Chains

mkd.T 13 N R 8 W S 25 B T

Thence I run

S.1° 17'W.on true line bet.sec.32 and Tract 37

20.56 Set true point for $\frac{1}{16}$ sec.cor.on E.bdy.NE$\frac{1}{4}$ sec.36.

41.13 Set an iron post 3 ft.long, 1 in.dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor.sec.32, with brass cap mkd.

T 13 N
R 8 W | R 7 W
Tr 37 | $\frac{1}{4}$ S 32
1914

From which

A cedar 6 ins.dia., bears S.86° 30'E.127 lks. dist., mkd.$\frac{1}{4}$ S 32 B T

A cedar 10 ins.dia.bears N.38° 30'W.192 lks. dist., mkd.T 13 N R 8 W TR 37 B T

82.26 The standard cor.of T.13 N.Rs.7 and 8 W. set by Deputy Edward W.Koeber,

November 26, 1914.

John W. Dougall
U.S.Surveyor.

Nov.26, 1914: For observation for meridian see page 2.

From the stone marked for the cor.of secs.25,30,31 and 36 , set by Deputy Edward W.Koeber, heretofore described, I run

East, retracing between secs.30 and 31, according to marks on stone, or between secs.25 and 36 according to the position of the reported Koeber range line.

40.00 No trace of any old cor.

Nov.26: At this point I set off 20° 52' 30" S.on the decl.arc; and at apparent noon observe the sun on the meridian; the resulting lat.is 41° 49' 30" .

60.00 Leave temporary point for $\frac{1}{16}$ sec.cor.

82.90 Intersect the restored Edward W.Koeber W.bdy.of T.13 N. R.7 W., at 1.89 chs.S.1° 17'W.of the restored cor.of secs.29 and 32.

METES AND BOUNDS OF TRACT 37, SEC.36, T.13 N.R.8 W.

Chains.	
	Thence, S.88°41'W.on true line,
20.74	True point for Cor.No.2, Tract 37.
41.48	True point for restored $\frac{1}{4}$ sec.cor.bet.secs.25 and 36,
	Set an iron post 3 ft.long, 1 in.dia., 24 ins.in the ground, for $\frac{1}{4}$ sec.cor., with brass cap marked
	S 25 / $\frac{1}{4}$ / S 36 / 1914
	from which
	A cedar 8 ins.dia.bears N.60° 30'E.13 lks.dist. marked $\frac{1}{4}$ S 25 B T
	A cedar, 8 ins.dia.bears S.8° W.12 lks.dist. marked $\frac{1}{4}$ S 36 B T
82.96	The old stone marked for cor.of secs.25,30,31, and 36, the position of which we accept as same corner in the extension of the survey by Joseph Troskolawski, U.S. Deputy Surveyor. Nov.26, 1914.
	Thos. C. Hathbone U.S.Transitman.

Nov.27, 1914: At 8h 48m a.m.l.m.t., I set off 41° 49' on lat.arc; 21° 01'S.on decl.arc; and determine a meridian with the solar at the stone marked for $\frac{1}{4}$ sec.cor., set by Edward W.Koeber, U.S.Dep.Surveyor, for $\frac{1}{4}$ sec.cor.on W.bdy.of sec.31, the position of which we accept as the same $\frac{1}{4}$ sec.cor.in the extension of the survey by Joseph Troskolawski, U.S.Dep.Surveyor.

Thence I run

East on a random line through center of sec.36,according to Dep.Troskolawski, or sec.31, according to Deputy Koeber.

40.00	Set point for temp.center of sec.
60.00	Set point for temp.1/16 sec.cor.between NE$\frac{1}{4}$ and SE$\frac{1}{4}$ sec.36.
81.85	Fall 98 lks.S.of the restored $\frac{1}{4}$ sec.cor.,on W.bdy.sec.32.
	The true course of this line will therefore be N.89°19'E. and the distance 81.86 chs.

MEES.AND BOUNDS OF TRACT 37, SEC.36, T.13 N.R.8 W.

Chains. Nov.27: At this cor.I set off 21°03'S.on decl.arc;and at apparent noon, observe the sun on the meridian; the resulting lat.is 41°49'

From the re-established ¼ sec.cor.of secs.6 and 36 I run North on random line; through center of sec.31, according to Deputy Troskolawski system, or sec.36, according to Deputy Koeber's reported range line.

40.09 Fall 85 lks.E.of the temp.point for center of sec.

John W. Dougall
U.S.Surveyor.

Nov.28: At 8h 48m a.m.l.m.t., I set off 41° 49' on lat. arc; 21° 12'S.on decl.arc; and determine a meridian with the solar at 40.09 ch.point from S., and continue

North on random on same line,

60.00 Set temp.point for 1/16 sec.cor.bet.NE¼ and NW¼ sec.36.

81.24 Fall 51 lks.W.of the restored ¼ sec.cor.bet.secs.25 and 36.

The true course of this line is therefore N.0° 22'E.and the dist.81.24 chs.

The true center of section is 1.11 chs.E., and 49 lks. N.of the temp.point.

Thos C Matthews
U.S.Transitman.

Nov.27: For solar observations see line between N½ and S½ of sec.36.

From the temporary 60-chain point, which is 148 lks.W. and 74 lks.S.of true point for 1/16 sec.cor.bet.NE¼ and SE¼ sec.36, I run

North on random line through center of NE¼.

20.00 Leave point for center of NE¼,which will be Cor.No.3 Tract 37.

42.03 Fall 1.71 chs.W.of the true 1/16 sec.cor.on N.bdy.NE¼

Nov.27, 1914.
John W Dougall U.S.Surveyor.

METES AND BOUNDS TRACT 37, SECTION 36 T.13 N., R.8 W.

Chains.

Nov. 28, 1914: For observation for meridian see line between NE¼ and NW¼ sec. 36.

From the true point for ¼ sec. cor. between NE¼ and NW¼ sec. 36, which is 91 lks. N. and 39 lks. E. of the 60-chain point, I run

East on random line through center of NE¼.

18.90 Fall 80 lks. N. of the temporary center of NE¼.

41.07 Fall 70 lks. S. of the true ¼ sec. cor. point on E. bdy. NE¼ sec. 36.

The true course of this line is therefore N. 89° 01' E. and distance 41.08 chs.

The true center of NE¼ is therefore 160 lks. E., and 115 lks. N. of the temporary point for center.

Nov. 28, 1914.

U.S. Transitman.

SURVEY OF TRACT 37.

Nov. 28: At 9h 48m a.m. l.m.t., I set off 41° 49½' on the lat. arc; 21° 13' S. on the decl. arc; and determine a meridian with the solar at Cor. No. 1, of tract.

Thence

S. 88° 41' W. on true line on N. bdy. of tract,

20.74 To Cor. No. 2 Tract 37,

Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for Cor. No. 2, Tract 37, with brass cap mkd.

T 13 N R 8 W
S 25
2
S 36 TR 37
1914

from which

A cedar, 10 ins. dia., bears S. 35° E. 6 lks. dist. mkd. T 13 N. R 8 W Tr. 37 Cor. No. 2 B T

Nov. 28: At this cor. I set off 21° 15' 30" S. on decl. arc; and, at apparent noon, observe the sun on the meridian

METES AND BOUNDS TRACT 37, SECTION 36 T.13 N.R.8 W.

Chains.

the resulting lat. is 41° 49' 30"

Thence

S 0° 20'W. on W.bdy. NE¼ NE¼ of sec. 36, on true line,

20.48 Point for Cor. No. 3 Tract 37,

Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for Cor. No. 3, Tract 37, with brass cap marked

T 13 N R 8 W
S 36 | 3
TR 37
1914

from which

A cedar, 5 ins. dia., bears N.57° E. 92 lks. dist. mkd. T 13 N R 8 W Cor No 3 Tr 37 B T

A cedar 6 ins. dia., bears S.27° W. 32 lks. dist. mkd. T 13 N R 8 W Cor No 3 Tr 37 B T

Thence

S.89° 01'W. on true line on N.bdy. SW¼NE¼ Sec. 36,

20.50 Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for Cor. No. 4 Tract 37, with brass cap mkd.

T 13 N R 8 W
S 36 | 4
TR 37
1914

Raise a mound of stone 2 ft. base, 1½ ft. high SE. of cor.

Thence

S. 0° 22'W. on true line on W. bdy. Tract 37.

60.91 To ¼ sec. cor. secs. 6 and 36 heretofore described, and Cor. No. 5 Tr. 37; I change the marks on this cor. to include Cor. No. 5 Tract 37, leaving it marked as follows:

T 13 N R 8 W
S 36 | TR 37
5
¼ S 6
T 12 N
1914

Thence S.89° 59'E. on true line on S. bdy. Tract 37,

40.02 The re-established standard cor. of Tp. 13 N. Rs. 7 and 8 W., and cor. of secs. 5 and 6 T. 12 N. R. 7 W., heretofore described and Cor. No. 6 Tr. 37.

I change the markings in the NW. quadrant of the brass

METES AND BOUNDS TRACT 37, SECTION 36, T.13 N.R.8 W.

Chains.

cap to include Cor.No.6, Tract 37, leaving the post marked as follows:

T 13 N R 8 W TR 37	R 7 W S 32
6	
S 6 T 12 N	S 5 R 7 W

1914

Thence

N.1°17'E.on true line between Tract 37 and sec.32.

41.13 The ¼ sec.cor.on W.bdy.sec.32.

82.26 The Cor.No.1 Tract 37 and cor.of secs.25,29, and 32.

Nov.28, 1914.

John W. Dougall
U.S.Surveyor.

BOUNDARIES TRACT 37, SECTION 36,T.13 N.R.8 W.

Latitudes, Departures, and Closing Errors.

Lines Designated	True Bearing	Dist. chs.	Latitudes. N. chs.	Latitudes. S. chs.	Departures. E. chs.	Departures. W. chs.
From Cor.No.1 to Cor.No.2	S.88°41'W.	20.74	.....	.49	.....	20.73
From Cor.No.2,to Cor.No.3.	S. 0°20'W.	20.48	.....	20.48	.....	.12
From Cor.No.3,to Cor.No.4.	S.89°01'W.	20.50	.....	.35	.....	20.49
From Cor.No.4,to Cor.No.5.	S. 0°22'W.	60.91	.....	60.91	.....	.39
From Cor.No.5,to Cor.No.6.	S.89°59'E.	40.02	.....	.01	40.02	.....
From Cor.No.6,to Cor.No.1.	N. 1°17'E.	82.26	82.24	.....	1.84	.....
Convergency						.02
	Totals		82.24	82.24	41.86	41.75
				82.24	41.75	
Errors in lat.and dep.				.00	.11	

GENERAL DESCRIPTION.

The land on this tract is generally rough mountains, lying on the south end of the Hansel Mts. The soil is a stony and sandy, dry, coarse loam, on stony subsoil; 3d rate.

Cedar timber covers all but a portion of the southern part of the tract. Undergrowth is sagebrush, affording fair grazing.

There is no water on this tract. There are no settlers on the tract.

John W. Dougall
U.S. Surveyor.

Thos. C. Cathcart
U.S. Transitman.

4—680

BOOK A-410

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 "D" T.11 N.R.7 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, John W. Dougall, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date ~~of the~~ April 23 ~~day of~~ 1914 and Nov. 19, 1914 respectively 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~~ retraced all those parts or portions of the west boundary of Township 13 North, Range 7 West; and metes and bounds survey of tract 37 in section 36 Township 13 North, Range 8 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 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 Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

John W. Dougall
U. S. Surveyor.

Subscribed by said John W. Dougall, and sworn to before me this 18 day of April, 1916

SEAL

M. A. Thoresen
U.S. Surveyor-General
for Utah.

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 been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys 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.

6—2761

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 .....

.....

.....

.....

.....

.....

.....

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.

Transitman.

FINAL OATH OF UNITED STATES ~~SURVEYOR~~.

I, Thomas C. Rathbone, U. S. ~~Surveyor~~ Transitman, do solemnly swear that, in pursuance of ~~special~~ instructions received from the U. S. Surveyor General for Utah bearing date ~~of the~~ April 23, ~~day of~~ 1914 and Nov. 19, 1914, respectively 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~~ retraced all those parts or portions of the west boundary of Township 13 North, Range 7 West; and metes and bounds surv of tract 37 in section 36 Township 13 North, Range 8 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 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 Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Thos. C. Rathbone
~~U. S. Surveyor.~~
U.S. Transitman

Subscribed by said Thomas C. Rathbone and sworn to before me this 18 day of April, 1916

SEAL

A. O. Thorsen
U.S. Surveyor-General
for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
Salt Lake City, Utah, April 18, 1916

The foregoing field notes of the ~~survey~~ of retracement of the west boundary of Township No. 13 North, Range No. 7 West; and metes and bounds survey of Tract 37, section 36, Township No. 13 North, Range No. 8 West of the Salt Lake Base and Meridian, Utah,

executed by John W. Dougall and Thomas C. Rathbone respectively under ~~his special~~ their instructions dated April 23, 1914 and Nov. 19, 1914, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

A. O. Thorsen
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

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BOOK A-410

D.

FIELD NOTES

OF THE SURVEY OF THE

RETRACEMENT AND RESURVEY

OF THE

SOUTH, WEST, EAST, AND NORTH BOUNDARIES

AND

DEPENDENT RESURVEY OF SUBDIVISION

O F

TOWNSHIP NO.11 NORTH, RANGE NO. 7 WEST,

AND

RETRACEMENT AND RESURVEY OF PART OF EAST BOUNDARY

OF

TOWNSHIP NO.12 NORTH, RANGE NO.7 WEST,

Of the SALT LAKE BASE AND *Meridian,*

in the State of U T A H

EXECUTED BY

JOHN W.DOUGALL AND THOMAS C.RATHBONE

and U.S.Transitman

In the capacity of U.S. Surveyor, under instructions dated April 23, *1914,* and supp'l special instructions dated Oct.7,1914,and Nov.10,1914, respectively *issued by the United States Surveyor General to govern surveys included in Group No.* 32, *which were approved by the Commissioner of the General Land Office,* May 13,1914,Oct.17, and Nov.17,1914, respectively *1914, pursuant to authority contained in the Act of Congress dated* ....., *191*....

Survey commenced October 20, *1914*

Survey completed November 10, *1914.*

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BOOK A-410

INDEX DIAGRAM.

Township 11 North, *Range* 7 West

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Retracements and Resurveys in T.11 N.R.7 W.

Examinations commenced May 10, 1914, and executed with two Young and Sons light mountain transits, Nos. 8515 and 7517, respectively; both being equipped with Smith solar attachments. The horizontal limb on each instrument is provided with two double verniers placed opposite to each other and reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instruments were approved for use in these examinations by Mr. G.D.D. Kirkpatrick, Assistant Supervisor of Surveys.

The adjustments of the transits were examined, and the level and collimation errors were corrected; then, to test the solar apparatus of each transit by comparing its indications, resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

At my camp, which is located near the center of sec. 34, T.11 N.R.7 W., Salt Lake Base and Meridian; latitude 41° 38' 30" N.; longitude 112° 37' W., at 4h 23m a.m. l.m.t., I observe Polaris at eastern elongation, in accordance with instructions in the Manual, and mark the line thus determined by a tack driven in a wooden hub firmly set in the ground 5 chs. N. of my station.

At 8h 10m a.m. apparent time, with transit No. 8515, I turn off the azimuth of Polaris 1° 32' to the west, and mark the meridian thus determined by a pencil mark on a stake firmly driven in the ground west of the mark established this a.m.

The magnetic bearing of the true meridian at 8h 30m a.m. is N. 17° 55' W., which gives the mag. decl. 17° 55' E.

At 9h 05m a.m. apparent time, I set off 41° 38' 30" on the lat. arc; 17° 32' N. on the decl. arc; and mark a point in the meridian determined with the solar, by

a pencil mark on the stake already set 5.00 chs.N.of my station; the mark falls 0.4 ins.east of the meridian established by the Polaris observation.

At 2h 50m p.m.apparent time, I set off 41° 38' 30" N. on the lat.arc; 17° 36'N.on the decl.arc; and determine a meridian with the solar, and mark a point thereof on the stake already set 5.00 chs.N.of my station; this mark falls 0.4 ins.west of the meridian established by the Polaris observation.

The solar apparatus by a.m.and p.m.observations defines positions for meridians, respectively, about 0' 21" east and west of the meridian established by the Polaris observation.

Transit No.7517 practically agrees with the above test; therefore we conclude that the adjustments of the transits are satisfactory.

John W. Dougall
U.S.Surveyor.

Thos. C. Rathbone
U.S.Transitman.

May 10, 1914.

Survey commenced October 20, 1914, and executed with a Young and Sons light mountain transit No.8515, equipped with a Smith solar attachment, and a Keuffel & Esser light mountain transit No.20575, fitted with a Smith solar attchment.

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

The instruments were approved for use in this survey by G.D.D.Kirkpatrick, Assistant Supervisor of Surveys.

I examine the adjustments of the Young and Sons transit No. 8515, and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At my camp which is located near the center of section 34 T.11 N.R.7 W., Salt Lake Base and Meridian; latitude 41° 38' 30" N.; longitude 112° 37'W., at 5h 35m a.m.l.m.t., I observe Polaris at western elongation, in accordance with instructions in the Manual; and mark the line thus determined by a tack driven in a wooden peg set in the ground 5.00 chs. N. of my station.

At 8h a.m. apparent time, I turn off the azimuth of Polaris 1° 32' to the east, and mark the meridian thus determined by a pencil mark on a stake firmly driven in the ground east of the mark established this a.m.

The magnetic bearing of the true meridian at 8h 30m a.m. is N.17° 55'W., which gives the magnetic declination 17° 55'E.

At 9h a.m. apparent time, I set off 41° 38' 30" N. on the lat. arc; 10° 10' 30" S. on the decl. arc; and mark a point in the meridian determined with the solar, by a pencil mark on the stake already set 5 chs. N. of my station; the mark falls 0.2 ins. east of the meridian established by the Polaris observation.

At 3h p.m. apparent time, I set off 41° 38' 30" N. on the lat. arc; 10° 16'S. on the decl. arc; and determine with the solar a meridian, and mark a point thereof on the stake already set 5.00 chs. N. of my station; this mark falls 0.4 ins. west of the meridian established by the Polaris observation.

The solar apparatus by a.m. and p.m. observations, defines positions for meridians, respectively, about 0'

10" east and 0' 21" west of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

October 20, 1914. John W. Dougall U.S. Surveyor.

I examine the adjustments of the Keuffel & Esser transit No. 20575, 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 on Polaris, I proceed as follows:

At my camp which is located near the center of sec. 34, T.11 N.R.7 W., Salt Lake Base and Meridian, latitude 41° 38' 30" N.; longitude 112° 37' W., at 5h 37m a.m. l.m.t., observe Polaris at western elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined on a peg driven in the ground 5 chs. N. of my station.

At 8h a.m. l.m.t., I lay off the azimuth of Polaris 1° 32' to the east, and mark the meridian thus determined by driving a tack in a hub set 5.00 chs. N. of my station.

The magnetic bearing of the true meridian at 8h 30m a.m. is N. 17° 55' W.; the angle thus determined gives the mag. decl. 17° 55' E.

At 9h a.m. apparent time, I set off 41° 38' 30" N. on the lat. arc; 10° 10' 30" S. on the decl. arc; and mark a point in the meridian determined with the solar, by a pencil mark on the hub already set 5 chs. N. of my station; this mark falls 0.3 ins. west of the meridian established by the Polaris observation.

Retracements and Resurveys in T.11 N.R.7 W.

At 3h p.m. apparent time, I set off 41° 38' 30" N. on the lat. arc; 10° 16' S. on the decl. arc; and mark a point in the meridian determined with the solar, by a pencil mark on the hub already set 5 chs. N. of my station; this mark falls 0.3 ins. east of the meridian established by the Polaris observation.

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

Thos C Cathcart
U.S. Transitman.
October 20, 1914.

All measurements were made with steel tapes 5 chs. long. Clinometers were used to take all slope angles; the horizontal distances only, being shown in these notes.

Note: Many meridional retracement lines were run on calculated courses, based on data obtained while making examinations in spring of 1914.

October 21, 1914: At 8h a.m. apparent time, I set off 41° 38' on the lat. arc; 10° 30' S. on 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. which is a limestone 8 x 8 x 12 ins. above ground, firmly set, plainly marked with 3 notches on E. and W. edges; not witnessed. I make the corner permanent as follows: Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, alongside the old cor., for cor. of secs. 3, 4, 33, and 34, with brass cap marked,

Retracement and Resurvey of South Boundary of T.11 N.R.7 W.

Chains.	
	T 11 N S 33 | S 34 R 7 W S 4 | S 3 T 10 N 1914
	Dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
	Thence I retrace East on S.bdy. of sec. 34,
	Ascend gently, over rolling land; through sagebrush.
1.50	Wood road, bears N.85° E. and W.
39.96	Fall 1.40 chs. S. of $\frac{1}{4}$ sec. cor., which is a limestone 6 x 7 x 9 ins. above ground, loosely set, plainly marked $\frac{1}{4}$ on N. face; not witnessed.
	I make the cor. permanent as follows:
	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, alongside the old cor., for $\frac{1}{4}$ sec. cor., with brass cap marked
	S 34 $\frac{1}{4}$ S 3 1914
	And raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
	Therefore the course of this line is N.88° 00' E., and distance 39.98 chs.
	Moved to the $\frac{1}{4}$ sec. cor.
	Thence I retrace
	East, along the S.bdy. of sec. 34,
	Ascend gently; through sagebrush.
16.00	Old wood road, bears N. and S.
36.00	Foot of hills, bears N.25° W. and S.25° E.
40.52	Fall 1.45 chs. S. of cor. of secs. 2, 3, 34, and 35, which is a sawed post, 3 ins. square, 12 ins. above ground, firmly set, plainly marked 4 notches on W. and 2 notches on E. edges; some small stones around base of post.
	I make the cor. permanent as follows:
	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in

Retracement and Resurvey of South Boundary of T.11 N.R.7 W.

Chains.

the ground, alongside the old cor., for cor. of secs. 2,3,34, and 35, with brass cap marked

T 11 N
S 34 | S 35
R 7 W
S 3 | S 2
T 10 N
1914

Dig pits 18 x 18 x 12 ins. in each sec., 5½ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

Therefore the course of this line is N.37° 57'E., and dist. 40.55 chs.

Land, gently rolling; draining S.

Soil, good clay loam on clay subsoil.

No timber. Undergrowth, sagebrush and grass.

Land suitable for dry farming.

East, along the S. bdy. of sec. 35,

Ascend through sagebrush.

17.00 Small spur, 15 ft. high, projects SW.

21.80 Wash, 10 ft. deep, drains S.20° W.

33.90 Wash, 15 ft. deep, drains S.

40.06 Fall 1.40 chs. S. of the ¼ sec. cor., which is a limestone 4 x 6 x 8 ins. above ground, loosely set, plainly marked ¼ on N. face; slight trace of pits and earth mound.

I make the corner permanent as follows:

Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, alongside the old cor., for ¼ sec. cor., with brass cap marked

S 35
¼
S 2
1914

Dig pits 18 x 18 x 12 ins. E. and W. of post, 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.

Therefore the course of this line is N.88° 00'E. and dist. is 40.08 chs.

Retracement and Resurvey of South Boundary T.11 N.R.7 W.

Chains.	
	Move to ¼ sec.cor.
	Thence I retrace,
	East, on S.bdy.of sec.35,
	Ascend, through sagebrush.
32.00	Limestone ledge, 3 ft.high, bears N.and S.
40.41	Fall 1.71 chs.S.of cor.of secs.1,2,35, and 36, which is a limestone 8 x 8 x 10 ins.plainly marked 5 notches on one edge and 1 notch on opposite edge, lying loose at the base of a post 3 x 3 ins.square, 18 ins.above ground, firmly set, not marked, surrounded by a few stones. I make the corner permanent as follows:
	Set an iron post 3 ft.long, 3 ins.diam., 24 ins.in the ground, alongside the old post;(the marked stone was also set with new cor.) for cor.of secs.1,2,35, and 36 with brass cap marked

T 11 N
S 35 | S 36
R 7 W
S 2 | S 1
T 10 N
1914

	And raise a mound of stone 2½ ft.base, 2 ft.high W.of cor.
	Therefore the course of this line is N.87°35'E., and distance 40.45 chs.
	Land, rolling and hilly, sloping SW.
	Soil, gravelly with some stones; underlaid with gravel and limestone.
	No timber. Undergrowth, sagebrush and grass.
	Land, suitable for grazing.
	October 21, 1914: At this cor.I set off 10° 35'S.on the decl.arc; and at 11h 45m a.m.l.m.t.observe the sun on the meridian; the resulting lat.is 41°38'
	East on S.bdy.of sec.36,
	Ascend gently, through sagebrush, over rolling hills,
5.00	Ridge, 30 ft.above sec.cor., bears N.and S.

Retracement and Resurvey of South Boundary T.11 N.R.7 W.

Chains.	
8.70.	Road, Cedar Springs to Promontory Station, bears N.45° W. and S.45° E.
14.00	Hollow, 30 ft. below ridge, drains S.45° E. Ascend.
37.00	Spur, 40 ft. above hollow, projects S.50° E.
38.00	Enter scattering cedar timber, bears N. and S.
40.11	Fall 1.74 chs. S. of $\frac{1}{4}$ sec. cor., which is a limestone 8 x 10 x 10 ins. above ground, loosely set, plainly marked $\frac{1}{4}$ on N. face; not witnessed.
	I make the corner permamnent as follows:
	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, alongside the old cor., for $\frac{1}{4}$ sec. cor., with brass cap marked
	S 36 $\frac{1}{4}$ S 1 1914
	from which
	A cedar, 8 ins. dia. bears N.50° 30'E. 75 lks. dist. marked $\frac{1}{4}$ S 36 B T
	A cedar, 10 ins. diam. bears S.38° 15'W. 96 lks. dist., marked $\frac{1}{4}$ S 1 B T
	Therefore the course of this line is N.87° 31'E., and distance 40.15 chs.
	Move to $\frac{1}{4}$ sec. cor.
	Thence I retrace,
	East on S. bdy. of sec. 36
	Descend gently over rolling hills; through scattering cedar timber and sagebrush.
4.00	Leave scattering cedar timber, bears N. and S.
24.80	Old road, bears N. 20° W. and S. 20° E.
25.00	Hollow, 65 ft. below $\frac{1}{4}$ sec. cor., drains S.10° E.
40.22	Fall 1.66 chs. S. of cor. of Tps. 10 and 11 N., Rs. 6 and 7 W., which is a decayed post, badly broken, with no marks; faint traces of pits in each sec., and remains of a mound. I restore the cor. as follows:
	Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the

Chains.

ground, for cor. of Tps. 10 and 11 N., Rs. 6 and 7 W., with brass cap marked

T 11 N
S 36 | S 31
R 7 W ——+—— R 6 W
S 1 | S 6
T 10 N
1914

Dig pits 24 x 24 x 12 ins. on each line, N, E, and W. 4 ft. and S. of post 8 ft. dist.; and raise a mound of earth 5 ft. base, 2½ ft. high S. of cor.

Therefore the course of this line is N. 87°38'E., and distance 40.25 chs.

Land, rolling and hilly, draining S. and E.

Soil, good clay loam, with some gravel, underlaid with gravel and limestone; dry.

Timber, scattering cedar.

Undergrowth, sagebrush and grass.

Land suitable for grazing and dry farming.

October 21, 1914.

October 31, 1914: At 8h a.m. apparent time, I set off 41° 38' on lat. arc; 13° 55' S. on decl. arc; and determine a meridian with the solar at the cor. of secs. 3, 4, 33, and 34 on S. bdy. of Tp.

Thence I retrace

West, along S. bdy. sec. 33,

Descend gently; through sagebrush.

20.00 Enter wood road, bears N. 85° E. and S. 85° W.

25.00 Leave wood road, bears N. 85° E. and S. 85° W.

40.25 Fall 1.23 chs. N. of ¼ sec. cor., which is a limestone, 6 x 6 x 12 ins. above ground, loosely set, plainly marked ¼ on N. face, not witnessed.

I make the cor. permanent as follows:

Set an iron post, 3 ft. long, 1 in. in dia., 24 ins. in the ground, alongside the old cor., for ¼ sec. cor., with brass cap marked

Retracement and Resurvey of South Boundary T.11 N.R.7 W.

Chains.

S 33
1/4
S 4
1914

Dig pits 18 x 18 x 12 ins.E.and W.of post 3 ft.dist., and raise a mound of earth 3½ ft.base, 1½ ft.high N. of cor.

Therefore the course of this line is S.88° 15'W., and distance 40.30 chs.

Move to 1/4 sec.cor.

Thence I retrace,

West on S.bdy.of sec.33,

Ascend gently over nearly level land; through sagebrush.

15.70 Wood road, bears N.and S.

21.80 Wash, 5 ft.deep, 20 lks.wide, drains S.20° W.

40.23 Fall 1.29 chs.N.of cor.of secs.4,5,32, and 33, which is an old sawed stake 2 x 2 x 8 ins.above ground, firmly set, plainly marked 4 notches on E.and 2 notches on W.edges; slight trace of mound; no pits.

I make this corner permanent as follows:

Set an iron post 3 ft.long, 3 ins.in dia., 24 ins.in the ground, alongside the old post, for cor.of secs.4,5, 32, and 33, with brass cap marked

T 11 N
S 32 | S 33
R 7 W
S 5 | S 4
T 10 N
1914

Dig pits 18 x 18 x 12 ins.in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

Therefore the course of this line is S.88° 10'W. and distance 40.25 chs.

Land, gently rolling, draining S.

Soil, good clay loam, fine texture, dry, on clay subsoil.

No timber. Undergrowth sagebrush.

Land, suitable for dry farming and grazing.

Retracement and Resurvey of South Boundary T.11 N.R.7 W.

Chains.	
	West, on S.bdy.of sec.32,
	Ascend gently over nearly level land; through sagebrush.
40.00	After diligent search find no trace of $\frac{1}{4}$ sec.cor.
80.47	Fall 2.58 chs.N.of cor.of secs.5,6,31, and 32, which is a limestone 6 x 8 x 11 ins.above ground, loosely set, plainly marked 5 notches on E., and 1 notch on W.edges; stone mound N.of cor.; old sawed post alongside.
	I make the corner permanent as follows:
	Set an iron post 3 ft.long, 3 ins.dia.24 ins.iin the ground, alongside of the old corner, for cor.of secs. 5,6,31 and 32, with brass cap marked

```
        T 11 N
    S 31 | S 32
R 7 W----+-----
    S 6  | S 5
        T 10 N
        1914
```

And raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.

From this corner a limestone 8 x 10 x 18 ins.firmly set, plainly marked 6 notches on N., E., S., and W. edges, and surrounded by mound of stones, bears N. 13° 30'E.3.08 chs.dist.

Note: This is evidently the cor.set by Deputy Surveyor Jos.Gorlinski, for Tps.10 and 11 N., Rs.7 and 8 W., when he resurveyed the range line bet.Rs.7 and 8 W. in 1871.

Therefore the course of this line is S.88° 10'W., and distance 80.51 chs.

Thence I run

N.88° 10'E.on a resurvey line on S.bdy.of sec.32.

Descend through sagebrush.

2.50	Foot of bench 30 ft.high, bears N.30° E. and S.30° W.
40.25½	Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground for $\frac{1}{4}$ sec.cor., with brass cap marked

```
S  32
1/4
-------
S  5
1914
```

Dig pits 18 x 18 x 12 ins.E.and W.of post 3 ft.dist.

Retracement and Resurvey of South Boundary T.11 N.R.7 W.

Chains	
	and raise a mound of earth 3½ ft.base, 1½ ft.high N. of cor.
80.51	The cor.of secs.4,5,32, and 33.
	Land, gently rolling, draining S.
	Soil, good clay loam, dry, underlaid with clay and limestone.
	No timber. Undergrowth sagebrush.
	Land, suitable for dry farming and grazing.
	From cor.of secs.5,6,31, and 32, I retrace
	West on S.bdy.of sec.31
	Ascend over rolling hills; through sagebrush.
8.00	Ridge, 100 ft.above sec.cor., bears N.20° E. and S.20° W. Thence across top of ridge to
10.00	Begin to descend gently.
40.29	Fall 1.30 chs.N.of ¼ sec.cor., which is a limestone 5 x 10 x 11 ins.above ground, surrounded with stones, firmly set, dimly marked ¼ on N.face.
	I make the corner permanent as follows:
	Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for ¼ sec.cor.(alongside of old cor.) with brass cap marked
	S 31 ¼ S 6 1914
	And raise a mound of stone 2 ft.base, 1½ ft.high N.of cor.
	Therefore the course of this line is S.88° 09'W. and the distance 40.31 chs.
	From this corner a limestone 8 x 8 x 10 ins.above ground firmly set, plainly marked ¼ on N.face, not witnessed, bears N.14° 29'E.4.64 chs.dist.
	Note: This is evidently the ¼ sec.cor.set on S.bdy.of sec.36, by Deputy Gorlinski, when he surveyed T.11 N. R.8 W.

Retracement and Resurvey of South Boundary T.11 N.R.7 W.

Chains. Moved to ¼ sec.cor.

Thence I retrace

West on S.bdy.of sec.31

Descend gently through sagebrush.

40.39 Fall 1.23 chs.N.of cor.of Tps.10 and 11 N., Rs.7 and 8 W which is a limestone 5 x 6 x 12 ins.above ground, firmly set, marked 6 notches on N.and W.edges, scattered mound of stone N.of cor.

I make this corner permanent as follows:

Set an iron post 3 ft.long, 3 in.in dia., 24 ins.in the ground, alongside of old corner, for cor.of Tps.10 and 11 N.R.7 W., with brass cap marked

T 11 N
S 35 | T 11 N
R 8 W ——— S 31
S 2 o——— R 7 W
T 10 N | S 6
T 10 N
1914

And raise a mound of stone 3 ft.base, 2 ft.high E.of cor.

Therefore the course of this line is S.88° 15'W., and distance 40.41 chs.

From this corner a limestone 8 x 12 x 14 ins.above ground loosely set, plainly marked 5 notches on W., and 1 notch on E.edges, not witnessed, bears N.15° 10'E.6.06 chs.dist.

Note: This is evidently the cor.of secs.1,2,35, and 36 set by Deputy Jos.Gorlinski in 1871 on the S.bdy.of T.11 N.R.8 W.

Land, rolling hills.

Soil, gravelly and stony underlaid with gravel and limestone.

No timber. Undergrowth, sagebrush.

Land, suitable for winter grazing only.

October 31, 1914: At this cor.I set off 14° 00'S.on the decl.arc; and at 11h 44m a.m.l.m.t., observe the sun on the meridian; the resulting lat.is 41° 38'

U.S.Transitman.

Retracement and Resurvey of West Boundary T.11 N.R.7 W.

Chains.	
	Note: From retracements made during May, 1914, I do not find any corners on the W.bdy.of T.11 N.R.7 W. that I accept as being in the original positions as set by Deputy Jos.Troskolawski in 1856, but do accept the position of cor.of Tps.11 and 12 N.Rs.7 and 8 W. as set by Deputy Jos.Troskolawski. This retracement gives me a calculated course of S.1° 35'E., and distance of 492.00 chs.from cor.of Tps.11 and 12 N.Rs.7 and 8 W. to corner of Tps.10 and 11 N.R.7 W.
	October 27, 1914: At 8h a.m.apparent time I set off 41° 43' on lat.arc; 12° 35'S.on decl.arc; and determine a meridian with the solar at the cor.of Tps.11 and 12 N. Range 7 West., described on page 40 of these notes.
	Thence I run
	S.1° 35'E.on a random line on W.bdy.of Tp., setting temp.$\frac{1}{4}$ sec.and sec.cors.at intervals of 41.00 chs.; and at 491.70 chs.fall 29 lks.W.of cor.of Tps.10 and 11 N.R.7 W., heretofore described.
	Thence I run
	N.1° 37'W.on a resurvey line on W.bdy.of sec.31,
	Ascend gently through sagebrush, along W.slope to
30.00	Begin to descend gently, along W.slope.
40.13	Intersect a limestone 4 x 6 x 12 ins.above ground, loosely set, plainly marked $\frac{1}{4}$ on W.face, remains of a stone mound W.of cor.
	It is my opinion that this corner was set by Deputy Edward W.Koeber for $\frac{1}{4}$ sec.cor.on E.bdy.of sec.35 T.11 N. R.8 W.
40.97½	Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for $\frac{1}{4}$ sec.cor., with brass cap marked $\frac{1}{4}$ | S 31 1914
	Raise a mound of stone 2 ft.base, 1½ ft.high E.of cor.
	A limestone ledge 3 ft.high, 12 ft.long, bears S. 78° 15'E.52 lks.dist., which I mark + B O
50.50	Wash, 7 lks.wide, 3 ft.deep, drains W.

Retracement and Resurvey of West Boundary T.11 N.R.7 W.

Chains	
81.95	Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 30 and 31, with brass cap mkd. T 11 N S 26 | S 30 S 35 | S 31 R 8 W | R 7 W 1914.
	Dig pits 24 x 24 x 12 ins. in each sec. 6 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high E. of cor.
	Land, rolling hills, sloping W.
	Soil, gravelly, underlaid with gravel and limestone.
	No timber.
	Undergrowth, sagebrush.
	Oct. 27, 1914: At this cor. I set off 12° 41' S. on decl. arc; and at 11h 44m a.m. l.m.t., observe the sun on the meridian; the resulting lat. is 41° 39'.
	N. 1° 37' W. resurveying W. bdy. sec. 30,
	Descend gently; through sagebrush.
5.00	Enter bench 30 ft. below sec. cor., bears N. 10° E. and S. 10° W.
5.37	A limestone 4 x 5 x 6 ins. above ground, loosely set in a stone mound, marked 5 notches on N. and 1 notch on S. edge, bears east 45 lks. dist.
	This is evidently the cor. set by Deputy Edward W. Koeber for the cor. of secs. 26 and 35 T. 11 N. R. 8 W.
40.97½	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for ¼ sec. cor. for sec. 30, with brass cap mkd. ¼ | S 30 1914
	Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high E. of cor.
47.60	A limestone 3 x 8 x 12 ins. above ground, loosely set, plainly marked ¼ on W. face, not witnessed, bears E. 30 lks. dist.
	This is evidently the corner set by Deputy Edward W. Koeber for ¼ sec. cor. on E. bdy. of sec. 26 T. 11 N. R. 8 W.

Retracement and Resurvey of West Boundary T.11 N.R.7 W.

Chains.

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

81.95 Set an iron post 3 ft.long, 3 ins.dia., 24 ins.in the ground, for cor.of secs.19 and 30 only, with brass cap marked

T 11 N
S 23 | S 19
S 26 | S 30
R 8 W | R 7 W
19 | 14

Raise a mound of stone 2 ft.base, 1½ ft.high E.of cor.

Land, rolling and narrow bench on E.slope.

Soil, on bench, good clay loam, dry, underlaid with clay and gravel; slope, gravelly.

No timber.

Undergrowth, sagebrush.

N.1° 37'W.resurveying W.bdy.sec.19,

Descend gently over narrow bench; through sagebrush.

2.00 Leave bench; descend along W.slope bearing N.10° E. and S.10° W.

7.19 A limestone 8 x 10 x 16 ins.above ground, firmly set, plainly mkd.4 notches on N.and 2 notches on S.edges, witnessed by mound of stone, W.of cor., bears E.10 lks.dist.

This is evidently the corner set by Deputy Edward W. Koeber for secs.14 and 23, T.11 N.R.8 W.

40.97½ Set an iron post 3 ft.long, in.in dia., 24 ins.in the ground, for ¼ sec.cor.sec.19 only, with brass cap mkd.

¼ | S 19
19 | 14

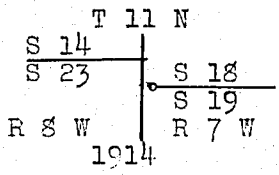
Raise a mound of stone 2 ft.base, 1½ ft.high E.of cor.

46.53 A limestone 4 x 4 x 4 ins.above ground, firmly set in a stone mound, plainly marked ¼ on W.face, bears E. 1.17 chs.dist.

This is evidently the cor.set by Deputy Edward W.Koeber, for ¼ sec.cor.on E.bdy.sec.23, T.11 N.R.8 W.

Retracement and Resurvey West Boundary T.11 N.R.7 W.

Chains.	
	Thence ascend gently on W.slope.
81.95	Set an iron post 3 ft.long, 3 ins.in dia., 24 ins.in the ground, for cor.of secs.18 and 19 only, with brass cap mkd.



Raise a mound of stone 2 ft.base, 1½ ft.high E.of cor.

Land rolling hills, sloping E.

Soil, gravelly, underlaid with gravel and limestone.

No timber.

Undergrowth, sagebrush.

N.1° 37'W., resurveying W.bdy.sec.18,

Ascend gently; through small sagebrush.

2.75	Road, Cedar Springs to Lake Station, bears N.70° E. and S.70° W.
4.70	Wash, 25 lks.wide, 10 ft.deep, drains W.
5.63	A limestone 4 x 6 x 10 ins.loosely set in mound of stone mkd.3 notches on N.and S.edges, bears E.96 lks.dist.

This is evidently the corner set by Deputy Edward W. Koeber for secs.14 and 23, T.11 N.R.8 W.

32.00	Descend abruptly, bearing N.25° E. and S.25° W.
36.10	Wash, 20 lks.wide, 10 ft.deep, drains W.
36.25	Abandoned road, bears N.60° W. and S.60° E.
40.50	Foot of abrupt descent 65 ft.below gentle W.slope, bears N.20° E. and S.20° W.
40.97½	Set an iron post 3 ft.long, 1 in.in dia.,24 ins.in the ground, for ¼ sec.cor.sec.18 only, with brass cap mkd.

¼ | S 18
1914

Raise a mound of stone 2 ft.base, 1½ ft.high E.of cor.

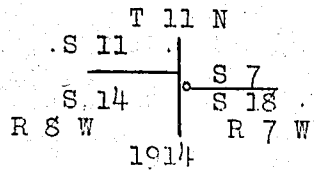
42.00	Enter nearly level bottom land; leave sagebrush; enter greasewood bearing N.25° E. and S.25° W.
44.97	A limestone 4 x 10 x 12 ins.above ground, plainly mkd.¼

Chains.

on W.face, not witnessed, bears E.98 lks.dist.

This is evidently the cor.set by Deputy Edward W.Koeber for ¼ sec.cor.on E.bdy.sec.14 T.11 N.R.8 W.

81.95 Set an iron post 3 ft.long, 3 ins.in dia., 24 ins.in the ground, for cor.of secs.7 and 18, only, with brass cap marked



Dig pits 24 x 24 x 12 ins.in each sec.6 ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high E.of cor.

From this cor.a limestone 5 x 7 x 12 ins.partly crumbled lying loose on the ground, not witnessed, plainly mkd. 4 notches on one edge; no other marks,; bears S.84°05' E.10.48 chs. dist.

It is my opinion that this cor.was set by Deputy George V.M.Boutelle for cor.of secs.11,12,13, and 14, in subdividing T.11 N.R.8 W.

An old sawed post 3 x 3 ins., 3 ft.long, lying loose on the ground, not marked, bears N.28° E.5.14 chs.dist.

This post is in about the position a corner would be if Deputy Koeber had set the cor.for secs.11 and 14, T.11 N.R.8 W.

Land S.42.00 chs.rolling W.slope, with gravelly soil, coarse texture, dry, on gravel and limestone base. N. 39.95 chs.nearly level bottom land, with clay loam, with some alkali, on clay subsoil.

No timber.

Undergrowth, sagebrush and greasewood.

N.1° 37'W.resurveying W.bdy.of sec.7,

Over nearly level land; through greasewood.

40.97½ Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for ¼ sec.cor.sec.7 only, with brass cap mkd.

Retracement and Resurvey of West Boundary T.11 N.R.7 W.

Chains.

$\frac{1}{4}$ | S 7
1014

Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high E. of cor.

72.00 Enter mud flat, bearing N.50° E. and S.50° W.

78.00 Leave mud flat.

81.95 Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 6 and 7 only, with brass cap mkd.

T 11 N
S 2 | S 6
S 7
S 11
R 8 W | R 7 W
1014

Dig pits in each sec. 24 x 24 x 12 ins. 6 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high E. of cor.

From this cor. a limestone 8 x 9 x 10 ins. above ground, loosely set in a mound of stone, plainly marked 5 notches on S. edge, and 1 notch on E. edge, bears S.78°03' E. 12.07 chs.

It is my opinion that this cor. was set by Deputy George V.M. Boutelle, for cor. of secs. 1, 2, 11, and 12 in the subdivision of T.11 N.R.8 W. in 1871.

Land, nearly level.

Soil, clay, with alkali, and mud flat.

No timber.

Undergrowth, greasewood.

N.1° 37' W. resurveying W. bdy. sec. 6,

Over nearly level land; through scattering greasewood.

1.50 Enter mud flat, bearing N.60° E. and S.60° W.; leave greasewood.

4.50 Road, Cedar Springs to Monument, bears N.60° W. and S. 60° E.

40.97½ Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for ¼ sec. cor. sec. 6 only, with brass cap mkd.

Retracement and Resurvey West Boundary T.11 N.R.7 W.

Chains.

$\frac{1}{4}$ | S 6
1914

Dig pits 18 x 18 x 12 ins.N.and S.of post, 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high E. of cor.

81.95 The cor.of Tps.11 and 12 North, Range 7.W.described in retracement of N.bdy.of this township.

Land, nearly level mud flat.

No timber.

Scarcely any vegetation; scattering greasewood on extreme S.portion of mile.

October 27, 1914.

John W. Dougall
U.S.Surveyor.

Retracement East Boundary T.11 N., R. 7 W.

October 21, 1914: From the cor.of Tps.10 and 11 N., Rs. 6 and 7 W., I retrace

North on E.bdy.of sec.36,

Ascend gently, over rolling hills; through sagebrush.

28.20 Enter scattering scrubby cedar timber, bears E.and W.

28.30 Road, Brigham to Cedar Springs, bears N.80° W. and S.80° E.

40.38 Fall 80 lks.E.of the $\frac{1}{4}$ sec.cor., which is a limestone 5 x 5 x 6 ins.above ground, loosely set, marked $\frac{1}{4}$ on W.face; slight traces of pits and mound.

I make this corner permanent as follows:

Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, alongside old corner, for $\frac{1}{4}$ sec.bet.secs/31 and 36, with brass cap marked

$\frac{1}{4}$ S 36 | S 31
1914

Dig pits 18 x 18 x 12 ins.N.and S.of post 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high W. of cor.

Retracement and Resurvey of East Boundary T.11 N.R.7 W.

Chains.	
	Therefore the course of this line is N.1° 08'W., and distance 40.39 chs.
	Moved to ¼ sec.cor.
	Thence I retrace,
	North on E.bdy.of sec.36,
	Ascend through scattering scrub cedar timber and sage-brush.
18.50	Spur, 80 ft.above ¼ sec.cor., projects SE.
18.65	Wood road, bears N.45° W. and S.45° E.
32.50	Draw, 20 ft.below spur, drains S.45° E.
35.25	Spur, 25 ft.above dfaw, projects S.70° E.
40.36	Fall 81 lks.E.of the cor.of secs.25,30,31, and 36,which is a limestone 8 x 8 x 12 ins.above ground, loosely set in a small stone mound, plainly marked 5 notches on N.and 1 notch on S.edges.
	I make this cor.permanent as follows:
	Set an iron post, 3 ft.long, 3 ins.in dia., 24 ins.in the ground, alongside the old cor., for cor.of secs. 25.30,31, and 36, with brass cap marked

T 11 N
R 7 W | R 6 W
S 25 | S 30
S 36 | S 31
1914

From which

A cedar, 5 ins.dia.bears S.71°50'E.1.38 chs.dist. marked T 11 N R 6 W S 31 B T

A cedar 6 ins.dia.bears S.57° 15'W.1.82 chs.dist. marked T 11 N R 7 W S 36 B T

A cedar 12 ins.diam.bears N.29°30'W.28 lks.dist. marked T 11 N R 7 W S 25 B T

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

Therefore the course of this line is N.1° 09'W., and distance 40.37 chs.

Land, rolling hills, draining SE.

South 40.00 chs., good clay loam, fine texture, dry, on

Chains	
	clay subsoil; capable of being dry farmed. North 40.76 chs. hilly, with light, clay loam, with some gravel, on clay and limestone base; suitable for grazing.
	Timber, scattering scrub cedar.
	Undergrowth, sagebrush.
	October 21, 1914.
	October 22, 1914: At 9h a.m. apparent time I set off 41° 39' on the lat. arc; 10° 53' S. on decl. arc; and determine a meridian with the solar at the cor. of secs. 25, 30, 31, and 36.
	Thence I retrace
	North on E. bdy. of sec. 25,
	Descend, through scattering cedar timber and sagebrush.
0.60	Draw, 20 ft. below sec. cor., drains S. 75° E.
1.00	Leave scattering cedar timber and sagebrush, bears S. 45° E. and W. Ascend.
5.00	Spur, 50 ft. above draw, projects S. 80° E. Desc.
11.50	Draw, 25 ft. below spur, drains S. 80° E. Asc.
15.00	Spur, 20 ft. above draw, projects S. 75° E. Descend.
17.50	Draw, 50 ft. below spur, drains S. 75° E. Ascend.
26.00	Spur, 65 ft. above draw, projects S. 75° E. Descend.
32.00	Draw, 40 ft. below spur, drains S. 75° E. Ascend.
39.75	Spur, 50 ft. above dfaw, projects S. 60° E.
	Fall 37 lks. E. of ¼ sec. cor., which is a limestone 4 x 8 x 10 ins. above ground, loosely set, plainly marked ¼ on W. face; not witnessed.
	I make this corner permanent as follows:
	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, alongside of old corner, for ¼ sec. cor., with brass cap marked
	¼ S 25 | S 30 1914
	Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Therefore the course of this line is N. 0° 32' W., and

Chains.	
	distance 39.75 chs.
	Moved to ¼ sec.cor.
	Thence I retrace,
	North on E.bdy.of sec.25,
	Descend over rolling mountainous land, draining E.
15.50	Draw, 50 ft.below ¼ sec.cor., drains S.60° E. Ascend.
20.00	Spur, 30 ft.above draw, projects S.70° E. Descend.
30.00	Draw, 70 ft.below spur, drains S.70° E.
40.27	Fall 3.23 chs.E.of cor.of secs.19,24,25, and 30, which is a limestone 4 x 5 x 8 ins.above ground, firmly set, plainly marked 4 grooves on N.and 2 grooves on S. faces, witnessed by small mound of stone W.of cor.
	I make this corner permanent as follows:
	Set an iron post 3 ft.long, 3 ins.dia., 24 ins.in the ground, alongside of old cor., for cor.of secs.19,24, 25, and 30, with brass cap marked

T 11 N
R 7 W | R 6 W
S 24 | S 19
S 25 | S 30
1914

	Raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
	Therefore the course of this line is N.4° 35'W., and distance 40.40 chs.
	Land, rolling mountains, draining E.
	Soil, good clay loam, medium texture, dry, on clay and gravel subsoil.
	Timber, scrub cedar.
	Undergrowth, sagebrush.
	Ridges and some slopes suitable for farming.
	North on E.bdy.of sec.24, retracing.
	Ascend over rolling mountainous land, draining E.
6.00	Spur, 35 ft.above sec.cor., projects S.75° E. Desc.
11.50	Draw, 60 ft.below spur, drains S.75° E. Ascend.
30.00	Spur, 75 ft.above draw, projects E.10.00 chs., then S. 60° E.

Retracement and Resurvey of East Boundary T.11 N.R.7 W.

Chains.	
35.80	Draw, 60 ft. below spur, drains E. 10.00 chs., then S. 75° E. Ascend.
40.20	Spur, 50 ft. above draw, projects E.
	Fall S 1lks. W. of ¼ sec. cor., which is a limestone 8 x 8 x 16 ins. above ground, loosely set, plainly marked ¼ on W. face, witnessed by mound of stone W. of cor.
	I make this corner permanent as follows:
	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, alongside of old cor., for ¼ sec. cor., with brass cap marked
	¼ S 24 | S 19 1914
	Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Therefore the course of this line is N. 0° 07' E. and dist. 40.20 chs.
	Moved to ¼ sec. cor.
	Oct. 22, 1914: At this cor. I set off 10° 57' S. on the decl arc; and at 11h 45m a.m. l.m.t., observe the sun on the meridian; the resulting lat. is 41° 40'.
	Thence I retrace
	North on E. bdy. of sec. 24,
	Descend over rolling mountainous land, draining E.
23.00	After careful search I find no trace of corner described by Deputy Henry Fitzhugh in 1887.
	Note: I now retrace N. 0° 12' W., reported course,
40.00	After careful search find no trace of cor. of secs. 13, 18, 19, and 24.
	Left mark for temp. cor. of secs. 13, 18, 19, and 24.

	From temp. point for cor. of secs. 13, 18, 19, and 24,
	I retrace N. 0° 12' W. on E. bdy. of sec. 13,
40.00	After careful search find no trace of ¼ sec. cor.
80.00	After careful search find no trace of cor. of secs. 7, 12, 13, and 18.
	Left mark for temp. cor. of secs. 7, 12, 13, and 18.
	October 22, 1914.

Chains.	
	Oct. 23, 1914: At 9h 30m a.m. apparent time, I set off 41° 42' on the lat. arc; 11° 15' S. on the decl. arc; and determine a meridian with the solar at the temp. cor. set for cor. of secs. 7, 12, 13, and 18.
	Thence I retrace
	N. 0° 12' W. on E. bdy. of sec. 12,
40.00	After careful search find no trace of ¼ sec. cor.
80.00	After careful search find no trace of cor. of secs. 1, 6, 7, and 12.
	Left mark for temp. point for cor. of secs. 1, 6, 7, and 12.
	Oct. 23, 1914: At this point I set off 11° 18' S. on the decl. arc; and at 11h 44m a.m. l.m.t., observe the sun on the meridian; the resulting lat. is 41° 43'.
	From temp. point for cor. of secs. 1, 6, 7, and 12, I retrace
	N. 0° 12' W. on E. bdy. of sec. 1,
32.30	Reported distance for end of resurvey. After careful search I find no trace of corner described by Deputy Henry Fitzhugh in 1887.
	Note: I now retrace north, reported course.
40.00	After careful search find no trace of ¼ sec. cor.
77.44	Fall 7.41 chs. E. of a porous sanstone 7 x 7 x 9 ins. above ground, firmly set, plainly marked 6 notches on W., and 4 notches on S., 1 notch on E., and 3 notches on N. edges. There are other dim marks; also a stake 3 x 3 ins. square, 2 ft. long, lying near the stone, with 5 notches on one edge; stake too much decayed to show other marks.
85.78	Fall 1.31 chs. E. of a limestone 6 x 6 x 6 ins. above ground, loosely set, plainly marked 6 grooves on N.E. S. and W. faces; not witnessed.
	October 23, 1914.
	Oct. 24, 1914: At 10h 0 m. apparent time I set off 41°43'

Chains.	
	on lat. arc; 11° 37'S. on decl. arc; and determine a meridian with the solar at the cor. of Tps. 11 and 12 N. Rs. 6 and 7 W. first described.
	Thence I retrace
	North bet. secs. 31 and 36 T.12 N.Rs. 6 and 7 W.
	Descend gently along W. slope.
17.20	Wash, 20 lks. wide, 10 ft. deep, drains W.
26.40	Wood road bears E. and W.
27.20	Wash, 25 lks. wide, 15 ft. deep, drains W.
36.00	Wash, 20 lks. wide, 12 ft. deep, drains W.
40.09	Intersect the base of an old post, decayed, and broken off, on top of mound of earth, the top of post is 2" x 3 ins. 2 ft. long, lying on mound, plainly marked ¼ on one face; impression of pits, reasonably plain.
	I make this corner permanent as follows:
	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, alongside of old stump of corner, for ¼ sec. cor., with brass cap marked
	¼ S 36 | S 31 1914
	Redig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.
44.50	Wash, 20 lks. wide, 10 ft. deep, drains W.
48.34	I measure 6.10 chs. E., and make diligent search for ¼ sec. cor. that should have been set 40.00 chs. N. of 2d cor. found for Tps. 11 and 12 N. Rs. 6 and 7 W., but find no trace of cor.
48.40	Wash, 30 lks. wide, 20 ft. deep, drains S. 80° W.
58.00	Wash, 25 lks. wide, 20 ft. deep, drains W.
67.50	Wash, 20 lks. wide, 10 ft. deep, drains W.
80.00	Falls in wash 30 lks. wide, 12 ft. deep, drains W.
	After careful search I find no trace of cor. of secs. 25, 30, 31, and 36.
	Oct. 24, 1914: At this point I set off 11° 39'S. on decl. arc; and at 11h 44m a.m. l.m.t., observe the sun on the

Retracement and Resurvey of East Boundary T.12 N.R.7 W.

Chains.	meridian; the resulting lat. is 41° 44'.
	From my transit point for cor. of secs. 25, 30, 31, and 36 I retrace
	North bet. secs. 25 and 30,
	Descend gently along W. slope.
3.34	Wash, 30 lks. wide, 10 ft. deep, drains S. 80° W.
	Make diligent search for cor. that should have been set 6.10 chs. E. of this point, but find no trace of it.
24.00	Small draw, 30 ft. deep, drains W. Ascend.
30.00	Point of small spur, 40 ft. above hollow, projects W.
40.30	Hollow, 30 ft. deep, drains W.
40.60	Fall 52 lks. E. of ¼ sec. cor., which is a limestone 6 x 6 x 12 ins. loosely set in a stone mound, plainly mkd. ¼ on W. face.
	I make this corner permanent as follows:
	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, alongside the old cor., for ¼ sec. cor., with brass cap marked ¼ S 25 | S 30 (19 | 14)
	Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Therefore the course of this line is N. 0° 22' W. and distance 40.60 chs.
	Moved to ¼ sec. cor.
	Thence I retrace
	North bet. secs. 25 and 30,
	Descend along W. slope.
1.00	Point of spur, 20 ft. above ¼ sec. cor., projects W.
3.34	After careful search find no trace of ¼ sec. cor. 6.10 chs E. of this line.
10.00	Hollow, 70 ft. below spur, drains W.
14.80	Point of spur, 60 ft. above hollow, projects W.
39.00	Leave W. slope; enter valley bears N. 20° E. and S. 20° W.
40.00	After careful search find no trace of cor. of secs. 19, 24, 25, and 30.

Retracement and Resurvey of East Boundary of T.12 N.R.7 W.

Chains.

After diligent search 8.34 chs.N.and 6.10 chs.E., fail to find any trace of sec.cor.

I now conclude that the first corner found is the proper cor.for Tps.11 and 12 N.R.7 W.

October 24, 1914.

Note: From the ¼ sec.cor.bet.secs.19 and 24, T.11 N.Rs. 6 and 7 W. to the cor.of Tps.11 and 12 N.Rs.6 and 7 W. the course is N.1° 41'W.and dist.is 277.56 chs., I resurvey this portion of E.bdy.T.11 N.R.7 W., as follows:

Nov.6, 1914: At 9ha.m.apparent time I set off 41° 40' on lat.arc; 15°50'S.on decl.arc; and determine a meridian with the solar at the ¼ sec.cor.bet.secs.19 and 24. Thence I run

N.1° 32'W.on resurvey line on E.bdy.of sec.24,

Descend over rolling mountainous land, draining E.

5.50 Draw, 50 ft.below ¼ sec.cor., drains E.

22.77 The point, by proportional distance, for end of resurvey.

Note: The reported course from this point to the end of resurvey on E.bdy.of sec.1, is N.0° 12'W.,therefore I run from the 22.76 chs.point on E.bdy.of sec.24, to the proportional distance point on E.bdy.of sec.I, which is 47.51 chs.S.1° 32'E.of cor.of Tps.11 and 12 N. Rs.6 and 7 W.,N.1° 32'W.plus the reported course of N. 0° 12'W., making N.1° 44'W.

26.00 Spur, 75 ft.above draw, projects N.45° E.

35.40 Head of draw, 55 ft.below spur, drains N.30° E.

39.61 Proportionate distance,

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, with brass cap marked

T 11 N
R 7 W | R 6 W
S 13 | S 18
S 24 | S 19
1914

Raise a mound of stones, 2 ft.base, 1½ ft.high W.of cor.

Retracement and Resurvey of East Boundary T. 12 N.R. 7 W.

Chains. Land, rolling, mountainous; draining E. and NE.

Soil, good clay loam, medium texture, dry, on clay and gravel subsoil.

No timber.

N. 1° 44' W. on a resurvey line on E. bdy. of sec. 13,

Descending gently, over rolling mountainous land, draining NE.

10.00 Point of spur, 30 ft. above sec. cor., projects N. 30° E.

17.50 Enter small valley, bearing E. and W.

39.60½ Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked

¼ S 13	S 18

19 14

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

79.21 Set an iron post 3 ft. long, 3 ins. dia., 24 ins. in the ground, for cor. of secs. 7, 12, 13, and 18, with brass cap marked

T 11 N

R 7 W	R 6 W
S 12	S 7
S 13	S 18

19 14

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

Land, rolling, and rolling mountains.

Soil, clay loam, medium texture, dry, on clay and gravel subsoil.

No timber.

N. 1° 44' W. on a resurvey line on E. bdy. of sec. 12,

Descend gently, over rolling land.

4.50 Wire fence, bears N. 89° E. 6.00 chs., and S. 89° W.

12.50 Lowest place on line in this valley.

27.40 Wire fence bears N. 60° W. and S. 60° E.

27.60 Road, Promontory to Salt Wells, bears N. 60° W., and S. 60° E.

Retracement and Resurvey of East Boundary of T.11 N.R.7 W.

Chains	
28.50	Leave valley; ascend; enter hills, bearing N.60° W. and S.60° E.
39.60½	Proportionate distance,
	Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for ¼ sec.cor., with brass cap marked
	¼ S 12 | S 7 1914
	Raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
	Nov.6, 1914: At this cor.I set off 15° 53'S.on the decl. arc; and at 11h 44m a.m.l.m.t., observe the sun on the meridian; the resulting lat.is 41° 42'
52.15	Spur, 150 ft.above valley, projects W. Descend.
54.75	Draw, 80 ft.below spur, drains W.5.00 chs., then SW.
59.20	Spur, 75 ft.above draw, projects S.45° W.
	Enter scattering cedars, bearing E.and W.
61.25	Draw, 50 ft.below spur, drains S.30° W.
74.75	Ridge, 100 ft.above draw, bears N.30° E. and S.30° W.
78.25	Head of draw, 50 ft.below ridge, drains W.
79.21	Proportionate distance,
	Set an iron post 3 ft.long, 3 ins.in dia., 24 ins.in the ground, for cor.of secs.1,6,7, and 12, with brass cap marked

T 11 N
R 7 W | R 6 W
S 1 | S 6
S 12 | S 7
1914

From which

A cedar 10 ins.dia.bears N.41° E.55 lks.dist. marked T 11 N R 6 W S 6 B T

A cedar, 10 ins.dia., bears S.40°30'E.25 lks.dist. marked T 11 N R 6 W S 7 B T

A cedar 8 ins.dia.bears S.37° W. 20 lks.dist. marked T 11 N R 7 W S 12 B T

A cedar 14 ins.dia.bears N.11° 45'W.34 lks.dist. marked T 11 N R 7 W S 1 B T

Land, south 28.50 chs.rolling valley. Soil, good clay

Chains.	
	loam; medium texture, dry; on clay subsoil; capable of producing fair crops of wheat or rye. North 50.72 chs. mountainous and broken; soil, gravelly and stony; underlaid with limestone.
	Timber, scrub cedar.
	N.1° 44'W.on a resurvey line on E.bdy.of sec.1,
	Ascend through scattering scrub cedar; over stony, mountainous land.
2.10	Spur, 45 ft.above sec.cor., projects W.
6.15	Head of draw, 60 ft.below spur, drains W.
7.35	Spur, 35 ft.above draw, projects W.Leave timber, bearing E. and W.
12.90	Enter slide rock; descend abruptly, bearing N.45° E.and S.45° W.
31.98	Proportional distance for end of resurvey as reported by Deputy Henry Fitzhugh in 1887, on E.bdy.of sec.1.
	Thence I run N.1° 32'W.
35.50	Foot of abrupt descent; leave slide rock bearing N.35° E.and S.40°W.350 ft.below spur.
39.92	Proportionate distance;
	Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for ¼ sec.cor., with brass cap marked
	¼ S 1 | S 6 1914
	Raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
79.53	The cor.of Tps.11 and 12 N.Rs.6 and 7 W.
	I make this corner permanent as follows:
	Set an iron post 3 ft.long, 3 ins.in dia., 24 ins.in the ground, for cor.of Tps.11 and 12 N.Rs.6 and 7 W.,alongside the old cor., with brass cap marked
	T 12 N S 36 | S 31 R 7 W ——— R 6 W S 1 | S 6 T 11 N 1914
	Raise a mound of stone 2 ft.base, 1½ ft.high S.of cor.
	Land,S.35.50 chs.,broken and hilly of nearly solid lime-

Chains.

stone formation. North 44.03 chs. rolling bench sloping W. Soil gravelly and stony on gravel subsoil. Timber, scrubby cedar.

November 6, 1914.

Thos A Rathbone

U.S.Transitman.

Retracement North Boundary T.11 N.R.7 W.

Nov.7, 1914: From the cor.of secs.2,3,34, and 35,which is a porous sandstone 6 x 10 x 16 ins.above ground, firmly set, plainly marked 4 notches on W.amd 2 notches on E.edges, plain impressions of pits and remains of mound.

I make this corner permanent as follows:

Set an iron post, 3 ft.long, 3 ins.in dia., 24 ins.in the ground, alongside of old corner,for cor.of secs. 2,3,34, and 35, with brass cap marked

T 12 N
S 34 | S 35
R 7 W
S 3 | S 2
T 11 N.
1914

Dig pits 18 x 18 x 12 ins.in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

Thence I run

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

40.00 After careful search I find an old wooden stake, greatly decayed, dimly marked, 30 lks.N.of this line, lying loose on the ground, not witnessed.

80.26 Ball 10 lks.S.of cor.of secs.1,2,35, and 36, which is a porous sandstone 4 x 6 x 10 ins.above ground, firmly set, plainly marked 5 notches on W.and 1 notch on E. edges, not witnessed.

I make this corner permanent as follows:

Chains.	
	Set an iron post 3 ft. long, 3 ins. dia., 24 ins. in the ground, alongside old cor., for cor. of secs. 1, 2, 35, and 36, with brass cap marked
	T 12 N S 35 | S 36 R 7 W —————— S 2 | S 1 T 11 N 1914
	Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Therefore the course of this line is N. 89° 56' E., and dist. 80.26 chs.
	Thence I run
	S. 89° 56' W. on a resurvey line bet. secs. 2 and 35,
	Descend gently over rolling land; through sagebrush.
5.00	Wash, 12 lks. wide, 6 ft. deep, dfains N. 45° W.
36.50	Wash, 15 lks. wide, 10 ft. deep, drains N. 50° W.
40.13	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked
	S 35 ¼ —————— S 2 1914
	Raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
42.00	Road, Promontory to Salt Wells, bears N. 45° W. and S. 45° E.
65.00	Leave sagebrush bears N. 30° E. and S. 30° W.
79.75	Wash, 30 lks. wide, 7 ft. deep, drains N. 80° W.
80.26	The cor. of secs. 2, 3, 34, and 35.
	Land, gently rolling W. slope.
	Soil, clay loam, 4 to 12 ins. deep, medium texture, dry; underlaid with clay and gravel.
	No timber. Undergrowth sagebrush.
	———————
	From cor. of secs. 1, 2, 35, and 36, I run
	East on a retracement line bet. secs. 1 and 36,
	Ascend gently over rolling land; through sagebrush.
40.14	Fall 43 lks. S. of ¼ sec. cor., which is a post 3 x 4 ins.

Chains.	
	18 ins. above ground, loosely set, plainly marked $\frac{1}{4}$ on N. face, plain indications of pits and remains of earth mound N. of cor.
	I make this corner permanent as follows:
	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, alongside of old corner, with brass cap mkd.
	S 36 / $\frac{1}{4}$ / S 1 / 1914
	Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
	Therefore the course of this line is N. 89° 23' E., and distance 40.14 chs.
	Moved to $\frac{1}{4}$ sec. cor.
	Thence I retrace
	East bet. secs. 1 and 36,
	Ascend through sagebrush.
9.00	Wash, 18 lks. wide, 6 ft. deep, drains N. 45° W.
10.00	Enter scattering cedars, bearing N. and S.
15.00	Leave cedars, bearing N. and S.
	Top of bench 20 ft. high, bears N. 30° E. and S. 30° W.
40.09	Pall 45 lks. S. of cor. of Tps. 11 and 12 N., Rs. 6 & 7 W.
	Therefore the course of this line is N. 89° 21' E. and distance 40.09 chs.
	Land, rolling, sloping W.
	Soil, clay loam 5 to 15 ins. deep, medium texture, dry, on gravel subsoil.
	Timber, cedars.
	Undergrowth, sagebrush.
	Nov. 7, 1914.

	Nov. 9, 1914: At 9h a.m. apparent time I set off 41° 43' on lat. arc; 16° 43' S. on decl. arc; and determine a meridian with the solar at the cor. of secs. 2, 3, 34, and 35, on N. bdy. of Tp.
	Thence I retrace,

Retracement and Resurvey of North Boundary T.11 N.R.7 W.

Chains	
	West bet. secs. 3 and 34,
	Descend gently over rolling land, draining NW.
25.90	Wash, 20 lks. wide, 7 ft. deep, drains N.70° W.
32.40	Wash, 30 lks. wide, 8 ft. deep, drains N.80° W.
35.00	Small hollow, 20 ft. deep, drains N.75° W.
39.10	Road, Cedar Springs to Salt Wells, bears N. and S.
40.16	Fall 40 lks. N. of ¼ sec. cor., which is a limestone 5 x 6 x 3 ins. above ground, firmly set, plainly marked ¼ on N. face, plain traces of pits, remains of earth mound N. of cor.
	I make this corner permanent as follows:
	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, alongside of old cor., for ¼ sec. cor., with brass cap marked
	S ¼ 34 S 3 1914
	Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.
	Therefore the course of this line is S.89° 26' W., and distance 40.16 chs.
	Moved to ¼ sec. cor.
	Thence I retrace
	West bet. secs. 3 and 34,
	Descend gently over rolling land, draining NW.
19.50	Wash, 20 lks. wide, 5 ft. deep, drains N.75° W.
34.70	Wash, 12 lks. wide, 5 ft. deep, drains N.60° W.
40.22	Fall 11 lks. S. of cor. of secs. 3, 4, 33, and 34, which is a limestone 6 x 6 x 8 ins. above ground, firmly set, plainly marked 3 notches on E. and W. edges; plain traces of pits, and remains of mound N. of cor.
	I make this corner permanent as follows:
	Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, alongside old corner, for cor. of secs. 3, 4, 33, and 34, with brass cap marked

Chains

T 12 N
S 33 | S 34
R 7 W
S 4 | S 3
T 11 N
1914

Dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

Therefore the course of this line is N. 89° 51' W., and distance 40.22 chs.

Land, gently rolling, draining NW.

Soil, clay loam, fine texture, dry, on clay subsoil.

No timber.

West, retracing bet. secs. 4 and 33,

Descend gently over rolling land.

40.21 Fall 73 lks. N. of $\frac{1}{4}$ sec. cor., which is a limestone 6 x 6 x 3 ins. above ground, firmly set, plainly marked $\frac{1}{4}$ on N. face; not witnessed.

I make this corner permanent as follows:

Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, alongside of old cor., for $\frac{1}{4}$ sec. cor., with brass cap marked

S 33
$\frac{1}{4}$
S 4
1914

Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

Therefore the course of this line is S. 88° 58' W. and distance 40.22 chs.

Moved to $\frac{1}{4}$ sec. cor.

Thence I retrace

West bet. secs. 4 and 33,

Overnearly level land.

5.00 Enter scattering greasewood, bearing NE. and SW.

35.00 Wash, 10 lks. wide, 2 ft. deep, drains N. 60° W.

40.14 Fall 61 lks. N. of cor. of secs. 4, 5, 32, and 33, which is a

Chains. limestone 6 x 6 x 8 ins. above ground, firmly set, plainly marked 2 notches on W. edge; no other marks; slight traces of pits.

I make this corner permanent as follows:

Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, alongside the old corner, for cor. of secs. 4, 5 32, and 33, with brass cap marked

T 12 N
S 32 | S 33
R 7 W
S 5 | S 4
T 11 N
1914

Dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

Therefore the course of this line is S. 89° 08' W., and distance 40.14 chs.

Land, gently rolling, draining NW.

Soil, clay loam, medium texture, dry, on clay subsoil, with alkali.

No timber.

Undergrowth, greasewood.

West, retracing bet. secs. 5 and 32,

Over nearly level bottom land; through greasewood.

2.00 Wash, 25 lks. wide, 10 ft. deep, drains N.

18.00 Leave greasewood, bearing NE. and SW.

40.15 Intersect ¼ sec. cor., which is a limestone 4 x 6 x 10 ins. above ground, firmly set, dimly marked ¼ on N. face; slight traces of pits.

I make this corner permanent as follows:

Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, alongside of old cor., for ¼ sec. cor., with brass cap marked

S 32
¼
S 5
1914

Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.;

Chains	
	raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.
80.23	Fall 52 lks.N.of cor.of secs.5,6,31 and 32, which is a limestone 7 x 7 x 8 ins.above ground, firmly set, plainly marked 5 notches on E.and 1 notch on W.edges; slight traces of old mound and pits.
	I make this corner permanent as follows:
	Set an iron post 3 ft.long, 3 ins.in dia., 24 ins.in the ground, alongside the old corner, for cor.of secs.5,6, 31, and 32, with brass cap marked

T 12 N
S 31 | S 32
R 7 W
S 6 | S 5
T 11 N
1914

	Dig pits 18 x 18 x 12 ins.in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.
	Therefore the course of this west half-mile is S.89°15' W., and distance 40.08 chs.
	From this corner a limestone 5 x 6 x 8 ins. loosely set in a stone mound, plainly marked (marks quite new) 5 notches on E., and 1 notch on W.edges.
	Note: This corner is in about the position for the cor. of Tps.11 and 12 N., Rs.7 and 8 W., as set by Deputy Jos.Gorlinski in his erroneous survey of the W.bdy.of T.11 N.R.7 W.
	Land, level bottoms.
	Soil, clay with alkali, underlaid with clay.
	No timber. Undergrowth greasewood.
	Nov.9, 1914: At this cor.I set off 16° 46'S.on the decl. arc; and at 11h 44m a.m.l.m.t., observe the sun on the meridian; the resulting lat.is 41° 43' .
	West, retracing bet.secs.6 and 31,
	Over nearly level land; through scattering greasewood.
5.00	Leave greasewood; enter shadscale, bearing NE. and SW.
17.00	Leave shadscale; enter greasewood, bearing N.and S.

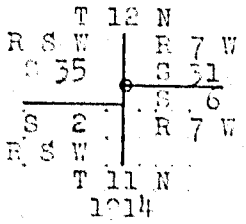
Retracement and Resurvey of North Boundary T.11 N.R.7 W.

Chains	
29.84	An old post 3 x 2 ins., 3 ft. long, plainly marked $\frac{1}{4}$, lying loose on the ground, not witnessed, bears S.4.45 chs. dist.
	Note: This is probably the $\frac{1}{4}$ sec. cor. on N. bdy. of sec. 1 T.11 N.R.8 W., as surveyed by Deputy Jos. Gorlinski in 1871.
37.50	Leave greasewood; enter alkali flat, bearing N.10° E. and S.10° W.
40.09	Fall 20 lks. N. of a limestone 6 x 6 x 6 ins. above ground, firmly set; badly corroded, and no marks can be seen. As there are no other stones in this vicinity it is evident that this stone was set for $\frac{1}{4}$ sec. cor. Slight raise indicates that a mound had been built.
	I make this corner permanent as follows:
	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, alongside of the old stone, for $\frac{1}{4}$ sec. cor. with brass cap marked
	S 31 / $\frac{1}{4}$ / S .6 / 1914
	Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
	Therefore the course of this line is S.89° 43'W., and distance 40.09 chs.
	Moved to $\frac{1}{4}$ sec. cor.
	Thence I retrace
	West across alkali flat.
42.00	Fall 10 lks. N. of cor. of Tps. 11 and 12 N.R.7 W., which is a limestone 8 x 12 x 12 ins. above ground, plainly mkd. 6 notches on N., and 1 notch on E., 2 notches on S. and W. edges; also a pine post 3 x 3 ins., 18 ins. above ground, firmly set, mkd. 6 notches on 4 edges, surrounded with mound of stones.
	I make this corner permanent as follows:
	Set an iron post 3 ft. long, 3 ins. dia., 24 ins. in the ground, alongside of old cor., for cor. of Tps. 11 and 12

Retracement and Resurvey of North boundary T.11 N.R.7 W.

Chains.

N.R.7 W., with brass cap marked



Dig pits 30 x 24 x 12 ins. on each line N. and S. of post. 4 ft., and E. of post 8 ft. dist.; and raise a mound of earth 5 ft. base, 2½ ft. high E. of cor.

Land, nearly level.

Soil, alkali flat and clay bottom.

No timber.

Undergrowth, shadscale and greasewood.

The course of this line is S. 80° 52' W., and distance 42.00 chs.

November 9, 1914.

Thos. A. Cathcart

U.S. Transitman.

Boundaries of T.11 N.R.7 W.

Latitudes, Departures, and Closing Errors.

Lines Designated	True Bearing	Dist. chs.	Latitudes. N. chs.	Latitudes. S. chs.	Departures. E. chs	Departures. W. chs.
S.bdy.sec.36,	S.87°38'W.	40.25	.....	1.66	.....	40.22
S.bdy.Sec.36,	S.87°31'W.	40.15	.....	1.74	.....	40.11
S.bdy.Sec.35,	S.87°35'W.	40.45	.....	1.71	.....	40.41
S.bdy.sec.35,	S.88°00'W.	40.08	.....	1.40	.....	40.06
S.bdy.sec.34,	S.87°57'W.	40.55	.....	1.43	.....	40.52
S.bdy.sec.34,	S.88°00'W.	39.98	.....	1.40	.....	39.96
S.bdy.sec.33,	S.88°15'W.	40.30	.....	1.23	.....	40.28
S.bdy.sec.33,	S.88°10'W.	40.25	.....	1.29	.....	40.23
S.bdy.sec.32,	S.88°10'W.	80.51	.....	2.58	.....	80.47
S.bdy.sec.31,	S.88°09'W.	40.31	.....	1.30	.....	40.29
S.bdy.sec.31,	S.88°15'W.	40.41	.....	1.23	.....	40.39
W.bdy.Tp.	N. 1°37'W.	491.70	491.50	.....	.....	13.87
N.bdy.sec. 6,	N.89°52'E.	42.00	.10	.....	42.00	.....
N.bdy.sec. 6,	N.89°43'E.	40.09	.20	.....	40.09	.....
N.bdy.sec. 5.	N.89°15'E.	40.08	.52	.....	40.08	.....
N.bdy.sec.5,	East	40.15	.....	.....	40.15	.....
N.bdy.sec. 4,	N.89°03'E.	40.14	.61	.....	40.14	.....
N.bdy.sec. 4,	N.88°58'E.	40.22	.73	.....	40.21	.....
N.bdy.sec. 3,	S.89°51'E.	40.22	.....	.11	40.22	.....
N.bdy.sec. 3,	N.89°26'E.	40.16	.40	.....	40.16	.....
N.bdy.sec. 2,	N.89°56'E.	80.26	.09	.....	80.26	.....
N.bdy.sec. 1,	N.89°23'E.	40.14	.43	.....	40.14	.....
N.bdy.sec. 1,	N.89°21'E.	40.09	.45	.....	40.09	.....
E.bdy.sec. 1,	S. 1°32'E.	47.55	.....	47.53	1.27	.....
E.bdy.sec. 1,	S. 1°44'E.	31.98	.....	31.97	.97	.....
E.bdy.sec.12,	S. 1°44'E.	79.21	.....	79.17	2.40	.....
E.bdy.sec.13,	S. 1°44'E.	79.21	.....	79.17	2.40	.....
E.bdy.sec.24,	S. 1°44'E.	16.84	.....	16.83	.51	.....
E.bdy.sec.24,	S. 1°32'E.	22.77		22.76	.61	.....
E.bdy.sec.24,	S. 0°07'W.	40.20	.....	40.20	.....	.08
E.bdy.sec.25,	S. 4°35'E.	40.40	.....	40.27	3.23	.....
E.bdy.sec.25,	S. 0°32'E.	39.75	.....	39.75	.37	.....
E.bdy.sec.36,	S. 1°09'E.	40.37	.....	40.36	.81	.....
E.bdy.sec.36,	S. 1°08'E.	40.39	.....	40.38	.80	.....
Convergency					.63	
Totals			495.03	495.49	497.54	496.89
				495.03	496.89	
Error in lat.and dep.				.46	.65	

Chains.

October 22, 1914: At 8h a.m. apparent time I set off 41° 38' on the lat. arc 10° 52'S. on the decl. arc; and determine a meridian with the solar at the restored cor. of secs. 1, 2, 35, and 36 on S. bdy. of Tp.

Thence I run

North on retracement line bet. secs. 35 and 36,

40.00 After careful search find no trace of ¼ sec. cor.

72.00 After careful search find no trace of cor. reported at end of survey or resurvey.

80.38 Fall 45 lks. W. of cor. of secs. 25, 26, 35, and 36, which is a sandstone 8 x 8 x 9 ins. loosely set, plainly marked 1 notch on S. and E. edges; from which

A cedar, 5 ins. diam. bears N. 42° W. 45 lks. dist. marked T 11 N R 7 W S 26 B T

Note: These marks are very old, and no doubt were put on this tree when cor. was set and not reported.

I make this corner permanent as follows:

Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, alongside the old cor., for cor. of secs. 25, 26, 35, and 36, with brass cap marked

T 11 N	R 7 W
S 26	S 25
S 35	S 36

1914

From which

A cedar 6 ins. diam. bears N. 1° 30' E. 1.23 chs. dist., marked T 11 N R 7 W S 25 B T

A cedar 5 ins. diam. bears S. 8° 20' E. 3.82 chs. dist., marked T 11 N R 7 W S 36 B T

A cedar 7 ins. diam. bears S. 76° 30' W. 1.24 chs. dist. marked T 11 N R 7 W S 35 B T

Therefore the course of this line is N. 0° 19' E. and distance 80.38 chs.

Thence I run

S. 0° 19' W. on a resurvey line bet. secs. 35 and 36,

Descend gently over rolling mountainous land; through scattering cedar timber.

Chains.	
10.00	Leave scattering cedar timber, bears N.30° E. and S.30° W.
16.00	Draw, 75 ft. below sec. cor., drains S.30° W.
20.00	Enter sagebrush, bears N.35° E. and S.35° W.
29.00	Point of spur, 45 ft. above draw, projects S.45° W.
33.00	Leave rolling hills; descend gently over bench land.
40.19	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground for ¼ sec. cor., with brass cap marked ¼ S 35 | S 36 1914 and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
47.10	Road, Blue Creek to Cedar Springs, bears E. and W.
63.00	Wash, 40 lks. wide, 12 ft. deep, drains S.75° W.
80.38	The cor. of secs. 1, 2, 35, and 36.
	North 33.00 chs. rolling hills, ridges with light poor gravelly soil, underlaid with limestone. South 47.38 chs. bench land, facing S.; soil, sandy loam, with some gravel underlaid with gravel.
	Timber, cedar.
	Undergrowth, sagebrush.
	October 22, 1914.

	October 21, 1914: At 3h p.m. l.m.t., I set off 41° 39' on lat. arc; 10° 37' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 25, 26, 35, and 36.
	Thence I retrace
	East, bet. secs. 25 and 36,
10.20	After careful search find no trace of corner reported at end of resurvey.
40.20	After careful search find no trace of ¼ sec. cor.
78.40	Intersect E. bdy. of Tp. 3. 65 chs. S. 1° 09' E. of the cor. of secs. 25, 30, 31, and 36.
	Therefore the course of this line is N.87° 20' E. and dis-

Dependent Resurvey Subdivision T.11 N.R.7 W.

Chains.

tance 73.45 chs. Oct. 21, 1914.

Nov. 3, 1914: At 9h a.m. apparent time I set off 41° 39' on the lat. arc; 14° 55' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 25, 26, 35, and 36.

Thence I run

N. 87° 20' E. on a resurvey line bet. secs. 25 and 36,

Descend gently over rolling mountainous land; through scattering cedars.

7.00 Draw, 35 ft. below sec. cor., drains S. 40° W.

16.50 Top of spur, 65 ft. above draw, projects S. 40° W.; thence across top of spur.

22.25 Descend from top of spur, bears N. 25° E. and S. 25° W.

25.75 Draw, 50 ft. below spur, drains S. 30° W.

32.00 Spur, 45 ft. above draw, projects S.

35.50 Draw, 50 ft. below spur, drains S.

39.34 Proportionate point for ¼ sec. cor.

Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked

S 25
¼
S 36
1914

From which

A cedar, 5 ins. dia. bears N. 56° 30' E. 67 lks. dist. marked ¼ S 25 B T

A cedar 5 ins. dia. bears S. 15° 30' E. 24 lks. dist. marked ¼ S 36 B T

39.75 Point of spur, 45 ft. above draw, projects S.

45.00 Draw, 50 ft. above point of spur, drains S. 25° W.

50.75 Ridge, 100 ft. above draw, bears N. 10° E. and S. 10° W.

56.00 Draw, 75 ft. below ridge, drains S. 10° W.

63.50 Spur, 65 ft. above draw, projects S. 40° E.

68.00 Wood road, bears N. 45° W. and S. 45° E.

78.48 The cor. of secs. 25, 30, 31, and 36 on E. bdy. of Tp.

Land, rolling, mountainous; draining SW. and SE.

Soil, light, sandy loam, with some gravel underlaid

Chains.	
	with gravel and limestone.
	Timber, scrub cedar.
	Nov. 3, 1914.
	Oct. 22, 1914: From the cor. of secs. 25, 26, 35, and 36, I retrace
	North bet. secs. 25 and 26,
40.11	Fall 35 lks. W. of ¼ sec. cor., which is a sandstone 5 x 6 x 12 ins., loosely set in a stone mound, marked ¼ on W. face; from which
	A cedar 10 ins. dia. bears S. 23° W. 31 lks. dist. marked ¼ S B T
	Therefore the course of this line is N. 0° 30' E. and distance 40.11 chs.
	I make this corner permanent as follows:
	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for ¼ sec. cor., alongside of old cor., with brass cap marked
	¼ S 26 | S 25 1914
	Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	A cedar 9 ins. dia. bears S. 30° E. 27 lks. dist. marked ¼ S 25 B T
	Oct. 22, 1914: At this cor. I set off 10° 57' S. on the decl. arc; and at 11h 45m a.m. l.m.t., observe the sun on the meridian; the resulting lat. is 41° 40'.
	Thence I run
	S. 0° 30' W. on a resurvey line bet. secs. 25 and 26,
	Descend over stony mountainous land; through scrub cedars.
14.10	Draw, 200 ft. below ¼ sec. cor., drains S. 75° W.
19.50	Spur, 100 ft. above draw, projects S. 30° W.
27.50	Draw, 80 ft. below spur, drains S. 40° W.
34.10	Spur, 75 ft. above draw, projects S. 45° W.
40.11	The cor. of secs. 25, 26, 35, and 36, 80 ft. below spur.

Dependent Resurvey of Subdivision T.11 N.R.7 W.

Chains.	
	Land, rolling stony, mountainous, draining SW. Soil, light, sandy loam, with some gravel and stones, underlaid with gravel and limestone. Timber, scrub cedar.
	From the ¼ sec.cor.bet.secs.25 and 36, I run North, retracing the line bet.secs.25 and 26, 23 and 24, 13 and 14, 11 and 12, and 1 and 2. After careful search I am unable to find any trace of old corners. Set temp.cor., at intervals of 40.00 chs.
360.17	Fall 13.24 chs.E.of cor.of secs.1,2,35, and 36 on N.bdy. of Tp,
	Note: I return and adjust all temporary corners on this line to their proportionate meridional positions. Note: These retracements were made during the interval of time from Oct.22 to 26, inclusive, on a meridian established Oct.22, 1914.
	Oct.26, 1914: At 8h a.m.apparent time I set off 41° 38' on the lat.arc; 12° 15'S.on the decl.arc; and determine a meridian with the solar at the cor.of secs.2,3, 34, and 35 on S.bdy.of Tp. Thence I retrace North bet.secs.34 and 35, Ascend gently over rolling land; through sagebrush.
9.64	Cedar Spring, bears N.52° W.
	A shed bears N.72° 30'W.4.00 chs.dist. Heber Stokes' house bears N.82° W.9.00 chs.dist .
18.60	Small draw, 30 ft.deep, drains S.45° W.
32.60	Road,Brigham City to Cedar Springs, bears E.and W.
40.18	Fall 62 lks.E.of ¼ sec.cor., which is a cedar post 3 x 3 ins., 18 ins.long, firmly set, mkd.¼ on W.face, plain traces of old pits.

Dependent Resurvey of Subdivision T.11 N.R.7 W.

Chains. I make this corner permanent as follows:

Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked

¼ S 34 | S 35
1914

Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.

Therefore the course of this line is N. 0° 53' W., and distance 40.19 chs.

Moved to ¼ sec. cor.

Thence I retrace, North bet. secs. 34 and 35,

Ascend gently through sagebrush,

38.36 Wire fence bears E. 80.00 chs., and W. 1.50 chs.

Enter W. L. Grover's enclosure, bears E. and W.

40.25. Small hollow, 10 ft. deep, drains SW.

42.20 Fall 17 lks. W. of cor. of secs. 26, 27, 34, and 35, which is a squared post 3 x 2 ins., 2 ft. long, mkd. 1 notch on S. and 2 notches on E. edges; plain traces of pits and mound.

I make this corner permanent 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, with brass cap marked

T 11 N | R 7 W
S 27 | S 26
S 34 | S 35
1914

Dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

Therefore the course of this line is N. 0° 14' E. and distance is 42.20 chs.

Land, gently rolling, draining SW.

Soil, good clay loam with some gravel on clay subsoil.

No timber. Undergrowth, sagebrush.

October 26, 1914.

Thos. C. Cathcart

U.S. Transitman.

Dependent Resurvey of Subdivision T.11 N.R.7 W.

Chains	
	Oct. 21, 1914:
	East on a retracement line bet. secs. 26 and 35,
40.00	After careful search find no trace of $\frac{1}{4}$ sec. cor.
81.07	Fall 1.08 chs. S. of cor. of secs. 25, 26, 35, and 36.
	Therefore the course of this line is N. 89° 14' E. and distance 81.08 chs.
	Oct. 21, 1914: At this cor. I set off 10° 35' S. on decl. arc, and at 11h 45m a.m. l.m.t., observe the sun on the meridian; the resulting lat. is 41° 39'
	Thence I run
	S. 89° 14' W. on a resurvey line bet. secs. 26 and 35,
	Ascend over rolling hills through scattering cedar timber.
1.80	Wire fence bears S. 3.40 chs. dist., and N.
4.20	Spur, 50 ft. above cor., projects S. 20° W. Descend.
16.20	Draw, 65 ft. below spur, drains S. 20° W. Ascend.
20.00	Spur, 45 ft. above draw, projects S. Descend.
25.00	Draw, 60 ft. below spur, drains S. Ascend.
30.00	Spur, 50 ft. above draw, projects S. Descend.
34.60	Draw, 40 ft. below spur, drains S. Ascend.
38.00	Spur, 50 ft. above draw, projects S.
40.54	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{S\ 26}{S\ 35}$ 1914
	From which
	A cedar 6 ins. dia. bears N. 65° 30' E. 1.00 ch. dist. marked $\frac{1}{4}$ S 26 B T
	A cedar 6 ins. dia., bears S. 54° E. 2.79 chs. dist. marked $\frac{1}{4}$ S 35 B T
41.96	Wire fence bears N. and S. 3.60 chs.; also leave rolling hills and cedar timber; enter gentle slope and sage-brush, bears N. and S., drains W.
80.00	Small hollow, 10 ft. deep, drains SW.
81.08	The cor. of secs. 26, 27, 34, and 35.

Chains. East 41.96 chs. rolling hills, covered with a scrubby growth of cedar timber; soil, light, sandy loam, underlaid with gravel. West 39.12 chs. gently rolling bench land draining SW.; soil, good clay loam with some gravel, underlaid with clay and gravel; capable of being dry farmed.

Timber, cedar.

John W. Dougall
U.S. Surveyor.

October 21, 1914.

Oct. 26, 1914:

North, retracing bet. secs. 26 and 27,

40.00 After careful search find no trace of $\frac{1}{4}$ sec. cor.

79.19 Fall 5.77 chs. E. of cor. of secs. 22, 23, 26, and 27, which is an old post, 3 x 3 ins., 2 ft. above ground, loosely set, plainly marked 2 notches on S. and E. edges; plain traces of pits.

I make this corner permanent as follows:

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

T 11 N	R 7 W
S 22	S 23
S 27	S 26

1914

from which

A cedar 5 ins. dia. bears S.30° 45'W. 1.74 chs. dist., marked T 11 N R 7 W S 27 B T

A cedar 6 ins. dia. bears N.73° 30'W. 1.93 chs. dist., marked T 11 N R 7 W S 22 B T

No suitable bearing trees in secs, 23 and 26; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.

Therefore the course of this line is N.4° 10'W. and dist. 79.40 chs.

Oct. 26, 1914: At this cor. I set off 12° 20'S. on the decl. arc; and at 11h 44m a.m. l.m.t., observe the sun on the

Chains.	
	meridian; the resulting lat. is 41° 40'.
	Thence I run
	S.4° 10'E. on a resurvey line bet. secs. 26 and 27,
	Over gently rolling land sloping W.; through sagebrush, scattering cedars W. of line extend S. about 6.00 chs.
1.00	W.L.Grover's house, bears S.34° 50'E.
2.85	Wire fence, bears E. and W.
14.20	Small hollow, 15 ft. deep, drains W.
33.00	Wood road, bears E. and W.
38.00	Small hollow, 10 ft. deep, drains W.
38.70	Wire fence, bears N. and S.
39.70	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S 27 | S 26 1914
	Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.
	From this cor. W.L.Grover's house bears N.77° 20'E.
40.00	Enter cultivated land, bearing N. and S.
66.65	Leave cultivated land, bearing N.85° E. and S.85° W.
70.00	Enter sagebrush, bearing E. and W.
79.40	The cor. of secs. 26, 27, 34, and 35.
	Land, gently rolling drains W.
	Soil, good clay loam, with some gravel, on clay and gravel subsoil; capable of producing crops of wheat and barley without irrigation.
	No timber. Undergrowth, sagebrush.
	From the cor. of secs. 22, 23, 26, and 27 I retrace North, between secs. 22 and 23,
	Descend gently through sagebrush; scattering cedars W. of line.
39.82	Fall 71 lks. E. of ¼ sec. cor., which is a limestone 6 x 8 x 6 ins. above ground, firmly set in a stone mound,

Chains. plainly marked ¼ on W.face; no accessories.

I make this corner permanent as follows:

Set an iron post 3 ft.long, 1 in.in dia.; 24 ins.in the ground, alongside of old cor., for ¼ sec.cor., with brass cap marked

¼ S 22 | S 23
1914

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

Corner falls in a small hollow, 15 ft.deep, drains NW.

The course of this line is N.1° 01'W. and distance 39.83 chs. Moved to ¼ sec.cor.

Thence I run

North, retracing bet.secs.22 and 23,

Over gently rolling land draining NW.; through sagebrush.

3.40 Small hollow, 15 ft.deep, drains NW.

15.00 Enter scattering cedars bearing N.20° E. and S.20° W.

29.80 Hollow, 10 ft.deep, drains NW.

37.00 Leave cedars; enter valley bearing N.20° E. and S.20°W.

37.50 Wire fence bears N.89° E. and S.89° W.

38.80 Wire fence, bears E. and W.; extends E.1.50 chs., then NE.

40.94 Fall 70 lks.E.of cor.of secs.14,15,22, and 23, which is a decayed post 3 x 3 ins., 14 ins.long, loosely set in a small stone mound, plainly marked 3 notches on S. and 2 notches on E.edges; no accessories.

I make this corner permanent as follows:

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

T 11 N R 7 W
S 15 | S 14
S 22 | S 23
1914

From which

A cedar 4 ins.dia., bears N.32°10'E.2.47 chs. dist., marked T 11 N R 7 W S 14 B T

A cedar, 6 ins.dia., bears S.13° 30'E. 3.36 chs.

Chains. dist., marked T 11 N R 7 W S 23 B T

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

The course of this line is N.0° 59'W. and distance 40.95 chs.

From this corner Wm.Horsley's house bears S.77° 10'W.

Windmill bears S.76° W.

Granary bears S.69° 30'W.

Land, rolling.

Soil, light clay loam, with some gravel on clay and gravel subsoil.

Timber, scattering cedar. Undergrowth, sagebrush.

October 26, 1914.

Nov.7, 1914: At 9h a.m.apparent time I set off 41° 41' on lat.arc; 16° 08'S.on decl.arc; and determine a meridian with the solar at the cor.of secs.14,15,22, and 23. Thence I retrace

North between secs.14 and 15,

Descend gently over rolling valley land, draining NW.

40.00 After careful search find no trace of ¼ sec.cor.

80.64 Fall 3.05 chs.E.of cor.of secs.10,11,14, and 15, which is a limestone 6 x 10 x 10 ins., loosely set at fence corner, plainly marked 4 notches on S., and 2 notches on E.edges; no accessories.

I make this corner permanent as follows:

Set an iron post 3 ft.long, 2 ins.in dia., 24 ins.in the ground, alongside the old corner, at intersection of N.and S., and E.and W.fences, for cor.of secs.10,11,14 and 15, with brass cap marked

T 11 N	R 7 W
S 10	S 11
S 15	S 14

1914

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

The course of this line is N.2° 10'W. and distance 80.70

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	chs. Thence I run
	S.2° 10'E.on a resurvey line bet.secs.14 and 15,
	Ascend gently over rolling land, draining NW.; through sagebrush.
5.70	Wash, 15 ft.deep, drains NW.
8.50	Leave sagebrush; enter cultivated land at NW.cor.of plot, bears N.45° E. and S.10° W.
25.70	Leave cultivated land; enter sagebrush bearing E.and W.
29.70	Wash, 12 ft.deep, drains NW.
36.60	Leave sagebrush; enter cultivated land, bearing N.70° W. and S.70° E.
40.35	Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for ¼ sec.cor., with brass cap marked ¼ S 15 | S 14 1914
	Raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
65.20	Wood road, bears N.30° E. and S.30° W.
65.35	Leave cultivated land; enter sagebrush bearing E.and W.
70.00	Leave sagebrush; enter cultivated land, bearing E.and W.
80.20	Leave cultivated land; enter sagebrush bearing N.10° E. and S.10° W.
80.70	The cor.of secs.14,15,22, and 23.
	Land, gently rolling, draining NW.
	Soil, fine, clay loam, with some gravel on clay subsoil.
	No timber. Undergrowth, sagebrush.
	Land is being dry farmed.

	From cor.of secs.10,11,14, and 15, I retrace
	North bet.secs.10 and 11,
40.00	After careful search find no trace of ¼ sec.cor.
40.26	Fall 1.63 chs.E.of cor.of secs.2,3,10, and 11, which is a hard sandstone 6 x 8 x 7 ins.above ground, firmly set at fence corner; plainly marked 5 notches on S.and 2 notches on E.edges; no accessories.
	I make this corner permanent as follows:

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.

Set an iron post 3 ft.long, 2 ins.in dia., 24 ins.in the ground, alongside of the old corner, for cor.of secs. 2,3,10, and 11, with brass cap marked

T 11 N	R 7 W
S 3	S 2
S 10	S 11

1914

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

The course of this line is N.1° 10'W. and distance 80.28 chs.

Nov.7, 1914: At this cor.I set off 16° 11'S.on the decl. arc; and at 11h 44m a.m.l.m.t., observe the sun on the meridian; the resulting lat.is 41° 43'

Thence I run

S.1° 10'E.on a resurvey line bet.secs.10 and 11,

Over gently rolling land, draining NW.; through sagebrush alongside of a wire fence.

39.76 Fence from west, joins N.and S.fence.

39.80 NE.cor.of cultivated land.

40.14 Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for ¼ sec.cor., with brass cap marked

¼ S 10	S 11

1914

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

Chas.Reeves' cabin bears S.48° 45'W.

62.38 Wash, 10 ft.deep, drains NW.

80.28 The cor.of secs.10,11,14, and 15.

The SE.cor.of cultivated land bears NW.20 lks.dist.

Chas.Reeves' cabin bears N.45° 45'W.

Land, gently rolling, draining NW.

Soil, sandy loam with some gravel on gravel subsoil.

No timber.

Undergrowth sagebrush.

From the cor.of secs.2,3,10, and 11 I retrace

North, bet.secs.2 and 3,

Chains.	
	Over gently rolling land; through small sagebrush.
39.00	Small wash, drains NW.
40.25	Fall 59 lks.E.of ¼ sec.cor., which is a limestone 4 x 4 x 6 ins.loosely set in a stone mound, plainly mkd. ¼ on W.face.
	I make this corner permanent as follows:
	Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, alongside of old corner, for ¼ sec.cor., with brass cap marked
	¼ S 3 | S 2
	1914
	Raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
	The course of this line is therefore N.0° 50'W., and distance 40.25 chs.
	Moved to ¼ sec.cor.
	Thence I retrace
	North bet.secs.2 and 3,
	Over gently rolling land; through small sagebrush.
39.20	Small wash, drains N.80° W.
40.06	Fall 75 lks.E.of cor.of secs.2,3,34, and 35 on N.bdy. of Tp.
	The course of this line is N.1° 04'W. and distance 40.07 chs.
	Land, gently rolling, draining W.
	Soil, clay loam, fine texture, dry, on clay and gravel subsoil.
	No timber. Undergrowth sagebrush.

November 7, 1914.

Thos C Cathcart

U.S.Transitman.

Third Meridional Line.

From the restored cor.of secs.3,4,33, and 34 on S.bdy. of Tp. , heretofore described, I run

N.1° 29'W.retracing the line bet.secs.33 and 34, 27 and

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	
	and 28, 21 and 22, 15 and 16, 9 and 10, and 3 and 4.
	After careful search I am unable to find any trace of old corners. Set temp. corners at intervals of 40.00 chs.
486.20	Fall 30 lks. E. of cor. of secs. 3, 4, 33, and 34 on N. bdy. of Tp. described on page 36 of these notes.
	Note: I return and adjust all temporary corners on this line to their proportionate meridional positions.
	Fourth Meridional Line.
	From the restored cor. of secs. 4, 5, 32, and 33 on S. bdy. of Tp. heretofore described, I run
	N. 1° 29' W. retracing the line bet. secs. 32 and 33, 28 and 29, 20 and 21, 16 and 17, 8 and 9, and 4 and 5.
	After careful search I am unable to find any trace of old corners. Set temp. corners at intervals of 40.00 chs.
487.68	Fall 83 lks. E. of cor. of secs. 4, 5, 32, and 33 on N. bdy. of Tp. heretofore described, see page 38 these notes.
	Note: I return and adjust all temporary corners on this line to their proportionate meridional positions.
	Fifth Meridional Line.
	From the restored cor. of secs. 5, 6, 31, and 32 on S. bdy. of Tp. heretofore described, I run
	N. 1° 30' W. retracing the line bet. secs. 31 and 32, 29 and 30, 19 and 20, 17 and 18, 7 and 8, and 5 and 6.
	After careful search I am unable to find any trace of the old corners. Set temp. corners at intervals of 40.00 chs.
489.36	Fall 36 lks. W. of cor. of secs. 5, 6, 31, and 32 on N. bdy. of the township, heretofore described, see page 39.
	Note: I return and adjust all temporary corners on this line to their proportionate meridional positions.
	First Latitudinal Line.
	Note: The ties to temporary corners are taken to the adjusted positions of temp. corners on meridional lines.
	From the restored corner of secs. 26, 27, 34, and 35, here-

Chains.	
	tofore described. I run
	S.88° 06'W. retracing the line bet.secs.27 and 34,
82.41	Fall 1.47 chs.N.of temporary cor.of secs.27,28,33, and 34.
	I continue
	S.88° 06'W., retracing the line bet.secs.28 and 33,
80.38	Fall 1.11 chs.N.of temp.cor.of secs.28,29,32, and 33.
	I continue
	S.88°06'W. retracing the line bet.secs.29 and 32,
80.69	Fall 85 lks.N.of cor.of secs.29,30,31, and 32.
	I continue
	S.88° 06'W.retracing the line bet.secs.30 and 31,
80.92	Fall 50 lks.N.of the re-established cor.of secs.25 and 30 on W.bdy.of Tp., heretofore described.
	Second Latitudinal Line.
	Note: The ties to temp.cors.are taken to the adjusted positions of temp.cors.on meridional lines.
	From the re-established cor.of secs.19,24,25, and 30 on the E.bdy.of Tp. heretofore described, I run
	West, retracing the line bet.secs.24 and 25,
76.16	Fall 3.45 chs.N.of temp.cor.of secs.23,24,25, and 26.
	I continue
	West, retracing the line bet.secs.23 and 26,
85.36	Fall 5.52 chs.N.of the cor.of secs.22,23,26, and 27.(See p.5
	From the cor.of secs.22,23,26, and 27 I run
	S.88° 13'W.retracing the line bet.secs.22 and 27.
78.83	Fall 21 lks.S.of temp.cor.of secs.21,22,27, and 28.
	I continue
	S.88° 13'W.retracing the line bet.secs.21 and 28,
80.45	Fall 66 lks.S.of temp.cor.of secs.20,21,28, and 29.
	I continue
	S.88° 13'W.retracing the line bet.secs.20 and 29,
80.66	Fall 1.30 chs.S.of temp.cor.of secs.19,20,29, and 30.
	I continue
	S.88° 13'W.retracing the line bet.secs.19 and 30,

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	
80.86	Fall 2.10 chs.S.of cor.of secs.19 and 30 on W.bdy.of Tp.
	Third Latitudinal Line.
	Note: The ties to temp.corners, are taken to the adjusted positions of temp.cor.on meridional lines.
	From the restored cor.of secs.13,18,19, and 24 on E.bdy. of Tp. heretofore described, I run
	West, retracing the line bet.secs.13 and 24,
78.03	Fall 2.90 chs.N.of temp.cor.of secs.13,14,23, and 24.
	I continue
	West, retracing the line bet.secs.14 and 23,
83.58	Fall 4.26 chs.N.of cor.of secs.14,15,22, and 23.(Desc.p.52)
	From the cor.of secs.14,15,22, and 23 I continue
	S.88° 51'W.retracing the line bet.secs.15 and 22,
79.73	Fall 26 lks.N.of cor.of secs.15,16,21, and 22.
	I continue
	S.88°51'W.retracing the line bet.secs.16 and 21,
80.50	Fall 40 lks.N.of temp.cor.of secs.16,17,20, and 21.
	I continue
	S.88° 51'W.retracing the line bet.secs.17 and 20.
80.73	Fall 27 lks.N.of temp.cor.of secs.17,18,19, and 20.
	I continue
	S.88°51'W.retracing the line bet.secs.18 and 19,
81.02	Fall 6 lks.N.of cor.of secs.18 and 19 on W.bdy.of Tp. heretofore described.
	Fourth Latitudinal Line.
	Note: The ties to temp.cors.are taken to the adjusted positions of temporary corners on meridional lines.
	From the restored cor.of secs.7,12,13, and 18 on E.bdy. of the Tp., heretofore described. I run
	West, retracing the line bet.secs.12 and 13,
78.86	Fall 2.19 chs.N.of temp.cor.of secs.11,12,13, and 14.
	I continue
	West, retracing the line bet.secs.11 and 14,

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains	
83.64	Fall 2.84 chs.N.of cor.of secs.10,11,14, and 15.(Desc.p.53
	I continue from cor.of secs.10,11,14, and 15
	S.89° 00'W.retracing the line bet.secs.10 and 15,
78.92	Fall 30 lks.N.of temp.cor.of secs.9,10,15, and 16.
	I continue
	S.89° 00'W.retracing the line bet.secs.9 and 16,
80.41	Fall 65 lks.N.of temp.cor.of secs.8,9,16, and 17.
	I continue
	S.89° 00'W.retracing the line bet.secs.8 and 17,
80.75	Fall 50 lks.N.of temp.cor.of secs.7,8,17, and 18.
	I continue
	S.89° 00'W.retracing the line bet.secs.7 and 18,
81.24	Fall 29 lks.N.of re-established cor.of secs.7 and 18, on W.bdy.of Tp. heretofore described.
	Fifth Latitudinal Line.
	Note: The ties to temp.cors.are taken to the adjusted positions of temp.cors.on meridional lines.
	From the restored cor.of secs.1,6,7, and 12 on E.bdy.of Tp., described page 31, I run
	West retracing the line bet.secs.1 and 12,
79.63	Fall 1.45 chs.N.of temp.cor.of secs.1,2,11, and 12.
	I continue
	West retracing the line bet.secs.2 and 11,
82.14	Fall 1.69 chs.N.of cor.of secs.2,3,10, and 11.(Desc.p.55)
	From the cor.of secs.2,3,10, and 11 I run
	S.89° 30'W.retracing the line bet.secs.3 and 10,
79.58	Fall 21 lks.N.of temp.cor.of secs.3,4,9, and 10.
	I continue
	S.89° 30'W.retracing the line bet.secs.4 and 9,
80.44	Fall 76 lks.N.of temp.cor.of secs.4,5,8, and 9.
	I continue
	S.89° 30'W.retracing the line bet.secs.5 and 8,
80.27	Fall 70 lks.N.of the temporary cor.of secs.5,6,7, and 8.
	I continue
	S.89° 30'W.retracing the line bet.secs.6 and 7,

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains	
81.92	Fall 71 lks.N.of the re-established cor.of secs.6 and 7 on W.bdy.of Tp., heretofore described, see page 20.

Nov.4, 1914: At 9h a.m.apparent time I set off 41° 40' on the lat.arc; 15° 14'S.on the decl.arc; and determine a meridian with the solar at the ¼ sec.cor.bet. secs.25 and 26,

Thence I run

N.7° 52'W.on a true line bet.secs.25 and 26,

Ascend over mountainous land; through scattering cedars.

12.00	Wire fence bears N.and S.
14.00	Spur, 100 ft.above ¼ sec.cor., projects W.
24.00	Draw, 125 ft.below spur, drains N.80° W.
36.35	Wire fence bears E.2.00 chs.and W.
40.43	The proportionate point for cor.of secs.23,24,25, and 26,

Set an iron post 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.23,24,25, and 26, with brass cap marked

T 11 N	R 7 W
S 23	S 24
S 26	S 25

1914

From which

A cedar 5 ins.dia.bears N.80° 45'E.46 lks.dist. marked T 11 N R 7 W S 24 B T

A cedar 8 ins.dia.bears S.19° E.1.25 chs.dist. marked T 11 N R 7 W S 25 B T

A cedar 6 ins.dia.bears S.1° W. 44 lks.dist. marked T 11 N R 7 W S 26 B T

A cedar 6 ins.dia.bears N.74° W.1.80 chs.dist. marked T 11 N R 7 W S 23 B T

Land, mountainous.

Soil, light, sandy loam, with some gravel and stones on gravel subsoil.

Timber, cedar.

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	
	From the re-established cor. of secs. 19, 24, 25, and 30 on E.bdy. of Tp., heretofore described, I run
	S.87° 32'W. on a true line bet. secs. 24 and 25,
	Ascend gently over rolling mountainous land.
5.00	Spur, 35 ft. above cor., projects S.50° E.
6.50	Draw, 50 ft. below spur, drains S.50° E.
13.25	Spur, 60 ft. above draw, projects S.60° E.
15.25	Draw, 35 ft. below spur, drains S.60° E.
30.30	Spur 100 ft. above draw, projects S.45° E.
35.00	Head of draw, 50 ft. below spur, drains S.45° E.
40.13½	The proportionate point for ¼ sec. cor.
	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked
	S 24 ¼ S 25 1914
	from which
	A cedar 5 ins. dia. bears N.46° W. 1.90 chs. dist. marked ¼ S 24 B T
	A cedar, 6 ins. dia., bears S.49° 30'W. 2.50 chs. dist., marked ¼ S 25 B T
	Nov. 4, 1914: At this cor. I set off 15° 17'S. on the decl. arc; and at 11h 44m a.m. l.m.t., observe the sun on the meridian; the resulting lat. is 41° 40'
41.00	Enter scattering cedars, bearing N.40° E. and S.40° W.
42.35	Ridge, 100 ft. above draw, bears N. and S.
52.50	Draw, 125 ft. below ridge, drains N.85° W.
70.00	Point of spur, 75 ft. above draw, projects N.40° W.
80.27	The re-established cor. of secs. 23, 24, 25, and 26.
	Land, rolling and broken, mountainous.
	Soil on ridges light sandy loam with some gravel and stones; slightly washed on slopes; stony and gravelly in draws.
	Timber, cedar.

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	
	S.88°33'W.on a true line bet.secs.23 and 26,
	Descend over rolling mountainous land; through scattering cedars.
1.50	Head of draw, 20 ft.below cor., drains N.85°W.
20.00	Prospect hole, 4 x 4 ft., 15 ft.deep, prospecting for water.
28.00	Dim wood road, bears N.85° E. and S.85°W.
29.50	Draw, 125 ft.below sec.cor., drains S.85°W.
40.82	The proportionate point for ¼ sec.cor.
	Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for ¼ sec.cor., with brass cap marked
	S ¼ 23 / S.26 1914
	from which
	A cedar, 6 ins.dia.bears N.26° 45'E.73 lks.dist. marked ¼ S 23 B T
	A cedar, 8 ins.dia., bears S.37° 35'E.2.82 chs. dist., marked ¼ S 26 B T
42.00	Leave foot hills and cedars, bearing N.and S.; enter gently sloping bench, draining W.
63.50	Enter plowed ground, bearing S.3.00 chs.and N.10.00 chs.
74.00	Leave plowed ground.
80.00	Wire fence, bears N.2° E. and S.2° W.
81.34	The cor.of secs.22,23,26, and 27.
	East 42.00 chs.rolling,mountainous, with light sandy soil, with some gravel. West 39.34 chs.gently rolling bench land, draining W.; soil, gravelly on gravel subsoil.
	Timber, cedar.
	Nov.4, 1914.

Nov.6, 1914: From the cor.of secs.23,24,25, and 26,

N.0° 35'W.on a true line bet.secs.23 and 24,

Ascend through cedars, over mountainous land.

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	
4.50	Spur, 50 ft. above cor., projects W.
6.75	Draw, 55 ft. below spur, drains W.
11.50	Spur, 85 ft. above draw, projects W.
20.50	Draw, 35 ft. below spur, drains W.
26.00	Spur, 65 ft. above draw, projects S.85° W.
40.00	Draw, 75 ft. below spur, drains N.80°W.
40.05	The proportionate point for ¼ sec. cor.
	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ S 23 | S 24 1914 from which
	A cedar 20 ins. dia. bears S.24° E.29 lks. dist. marked ¼ S 24 B T
	A cedar, 16 ins. dia. bears S.20° W., 44 lks. dist. marked ¼ S 23 B T
43.00	Spur, 60 ft. above draw, projects N.80° W.
48.50	Draw, 125 ft. below spur, drains N.75° W.
55.00	Spur, 100 ft. above draw, projects N.75° W.
63.00	Draw, 110 ft. below spur, drains N.85° W.
70.00	Spur, 100 ft. above draw, projects N.75° W.
76.80	Draw, 50 ft. below spur, drains W.
79.00	Limestone spur, 60 ft. above draw, projects N.75°W.
80.10	The proportionate point for cor. of secs. 13, 14, 23, and 24,
	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 13, 14, 23, and 24, with brass cap marked
	T 11 N | R 7 W S 14 | S 13 S 23 | S 24 1914 from which
	A cedar 10 ins. dia. bears N.50° E.43 lks. dist. marked T 11 N R 7 W S 13 B T
	A cedar, 10 ins. dia. bears S.35°E.15 lks. dist. marked T 11 N R 7 W S 24 B T
	A cedar 8 ins. dia. bears S.23° W.36 lks. dist. marked T 11 N R 7 W S 23 B T
	A cedar, 10 ins. dia., bears N.56° W.24 lks. dist.

Dependent Resurvey of Subdivision of T.11 N.R.7 E.

Chains	
	marked T 11 N R 7 W S 14 B T
	Land, mountainous, ridges stony with some small limestone ledges; slightly washed on slopes. Draws with sandy loam and gravel.
	Timber, cedar.
	From the restored corner of secs.13,18, 19, and 24, on E.bdy.of Tp., I run
	S.87° 55'W.on a true line bet.secs.13 and 24,
	Ascend over mountainous land.
5.00	Point of spur, 50 ft.above cor., projects N.45° E.
10.00	Small draw, drains N.
21.00	Spur, 75 ft.above draw, projects N.10° E.
27.75	Draw, 100 ft.below spur, drains N.
34.75	Ridge, 80 ft.above draw, bears N.and S. ;enter cedars bearing N.and S.
39.99½	The proportionate point for ¼ sec.cor.
	Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for ¼ sec.cor., with brass cap marked
	S 13 / ¼ / S 24 / 1914
	from which
	A cedar 8 ins.dia.bears S.13° 30'E. 60 lks.dist. marked ¼ S 24 B T
	A cedar, 12 ins.dia.bears N.24° W. 32 lks.dist. marked ¼ S 13 B T
	Nov.6, 1914: At this cor.I set off 15° 53'S.on the decl. arc; and at 11h 44m a.m.l.m.t., observe the sun on the meridian; the resulting lat.is 41° 41'
42.00	Draw, 100 ft.below spur, drains N.
50.00	Spur, 110 ft.above draw, projects N.
54.00	Head of draw, 50 ft.below spur, drains N.
56.50	Spur, 60 ft.above draw, projects N.10° W.
60.00	Head of draw, 65 ft.below spur, drains N.65° W.

Chains.	
66.00	Point of spur, 45 ft. above draw, projects N.65° W.
79.99	The cor. of secs. 13, 14, 23, and 24.
	Land, mountainous, soil on ridges stony; slopes sandy loam, slightly washed, with some gravel; draws, stony.
	Timber, cedar.
	Nov. 6, 1914: At 2h p.m. apparent time I set off 41° 41' on the lat. arc; 15° 55' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 13, 14. 23, and 24.
	S. 89° 03' W. on a true line bet. secs. 14 and 23,
	Descend abruptly over mountainous land; through cedars.
11.25	Draw, 325 ft. below sec. cor., drains N.80° W.
18.75	Point of spur, 45 ft. above draw, projects N.75° W.
23.75	Draw, 50 ft. below spur, drains N.75° W.
25.75	Spur, 35 ft. above draw, projects N.75° W.
27.00	Enter bench along foot of mountains, slopes W.
41.23	Proportionate point for ¼ sec. cor.
	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked
	S 14 ¼ S 23 1914
	from which
	A cedar 6 ins. dia. bears N.23° 45' E. 2.26 chs. dist. marked ¼ S 14 B T
	A cedar 6 ins. dia. bears S.5° 10' W. 2.02 chs. dist. marked ¼ S 23 B T
55.50	Wash, 20 lks. wide, 4 ft. deep, drains N.65° W.
55.60	Wire fence bears N.60° E. and S.60° W.
58.75	Low spur, projects N.45° W.
67.30	Small draw, 25 ft. deep, drains N.60° W.
74.00	Point of spur, 30 ft. above draw, projects N.60° W.
75.75	Mouth of small draw, 50 ft. below spur, drains NW.
78.00	Enter valley, bears N.45° E. and S.45° W.

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	
	Leave cedars bearing NE. and SW.
51.67	The cor. of secs. 14, 15, 22, and 23.
	East 27.00 chs., broken mountains; stony soil. West 54.67 chs. rolling bench and valley land; soil, gravelly on gravel subsoil.
	Timber, cedar.
	November 6, 1914.
	Nov. 9, 1914: At 9h apparent time I set off 41° 41' on the lat. arc; 16° 43' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 13, 14, 23 and 24. Thence I run
	N. 2° 02' W. on a true line bet. secs. 13 and 14,
	Descend over mountainous land; through cedars.
3.00	Draw, 35 ft. below cor., drains W.
13.60	Spur, 50 ft. above draw, projects N. 75° W.
16.70	Draw, 75 ft. below spur, drains N. 80° W.
30.00	Spur, 60 ft. above draw, projects N. 80° W.
34.60	Draw, 185 ft. below spur, drains N. 75° W.
36.50	Point of spur, 65 ft. above draw, projects N. 60° W.
40.07½	The proportionate point for ¼ sec. cor.
	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S 14 | S 13 1914 from which A cedar 6 ins. dia. bears S. 80° E. 15 lks. dist. marked ¼ S 13 B T A cedar 8 ins. dia. bears N. 8° W. 42 lks. dist. marked ¼ S 14 B T
42.00	Foot of mountains; enter rolling bench land, bearing NE. and SW.
60.00	Small draw, 25 ft. deep, drains N. 80° W.
62.00	Leave cedars, bearing NE. and SW.
64.00	Small hollow, 20 ft. deep, drains N. 80° W.

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	
66.40	Small hollow, 20 ft. deep, drains N.80° W.
74.20	Small hollow, 20 ft. deep, drains N.80° W.
80.15	The proportionate point for cor. of secs. 11, 12, 13, and 14.

Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 11, 12, 13, and 14, with brass cap marked

T 11 N | R 7 W
S 11 | S 12
S 14 | S 13
1914

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

Land, south 42.00 chs. broken and mountainous; soil, stony and with small limestone outcroppings. North 38.15 chs. rolling bench land; soil, light sandy loam with some gravel and stones on clay and gravel subsoil.

Timber, cedar.

From the re-established cor. of secs. 7, 12, 13, and 18 on E. bdy. of Tp., I run

S.88° 27'W. on a true line bet. secs. 12 and 13,

Ascend gently over rolling mountainous land.

17.25	Low spur, 50 ft. above cor., projects N.
20.75	Hollow, 40 ft. below spur, drains N.15.00 chs. into cultivated land.
34.65	Ridge, bears N. and S.; small scattering cedars N. of line
40.35	Proportionate point for ¼ sec. cor.

Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked

S 12
¼
S 13
1914

from which

A cedar 6 ins. dia. bears N.35° 30'E. 2.18 chs. dist. marked ¼ S 12 B T

No other bearing trees within limits; dig pits 18 x 18

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	
	x 12 ins. E. and W. of post, 3 ft. dist.; raise a mound of earth. 3½ ft. base; 1½ ft. high N. of cor.
	Thence across small bench bearing N. and S.
46.25	Leave bench; descend bearing N. and S.
53.25	Enter bench, bears N. and S.
59.75	Leave bench; descend bearing N. and S.; enter scattering cedars, bearing N. and S.
65.25	Leave scattering cedars bearing N.25° E. and S.25° W.
69.25	Enter open valley bears N.10° E. and S.10° W.
80.70	The cor. of secs. 11, 12, 13, and 14.
	East 69.25 chs. rolling benches and mountains; soil good clay loam, with some gravel; underlaid with clay subsoil. West 11.45 chs. open valley; soil, gravelly, on clay and gravel subsoil. A great portion of this line can be dry farmed.
	Timber cedars.
	Nov. 9, 1914: At this cor. I set off 16° 46' S. on the decl. arc; and at 11h 44m a.m. l.m.t., observe the sun on the meridian; the resulting lat. is 41° 42'.
	S.89° 33' W. on true line bet. secs. 11 and 14,
	Descend gently over rolling valley land.
1.90	Wire fence extends N. 1.35 chs., to NE. cor. of enclosure, and S.
8.70	Small wash, 4 ft. deep, drains N.75° W.
15.00	Enter cultivated land, bearing N. and S.; extends N. 1.00 ch.
22.90	Wood road, bears N.25° E. and S.25° W.
40.90½	The proportionate point for ¼ sec. cor. falls in cultivated land.
	In a fence line bearing N.89° E. and S.89° W., and at a point 64 lks. N. of true point for ¼ sec. cor., I
	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for witness corner to ¼ sec. cor., with brass cap marked

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	
	T 11 N R 7 W S 11 / S 14 — WC¼ 1914
	Raise a mound of stone 2 ft.base, 1½ ft.high N.of cor.
43.30	Small wash, 4 ft.deep, drains NW.
74.70	Leave cultivated land. bears N.and S.
75.40	Small wash, 5 ft.deep, drains NW.
81.81	The cor. of secs.10,11,14, and 15.
	Land, gently rolling valley, drains NW.
	Soil, good clay loam with some gravel on clay and gravel subsoil; capable of being, and is dry farmed.
	No timber.
	From cor.of secs.11,12,13, and 14 I run
	N.1° 14'W.bet.secs.11 and 12,
	Descend gently over rolling valley land.
1.40	Wire fence bears N.88° 30'E. and S.88° 30'W.
7.90	Wash, 7 ft.deep, 20 lks.wide, drains NW.
14.40	Wash, 20 lks.wide, 5 ft.deep, drains NW.
18.50	Enter sagebrush, bears NE. and SW.
40.06	The proportionate point for ¼ sec.cor.
	Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for ¼ sec.cor., with brass cap marked ¼ S 11 | S 12 1914
	Dig pits 18 x 18 x 12 ins.N.and S.of post 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W. of cor.
64.10	Small wash, 3 ft.deep, drains W.
80.12	The proportionate point for cor.of secs.1,2,11, and 12.
	Set an iron post 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.1,2,11, and 12, with brass cap marked T 11 N | R 7 W S 2 | S 1 S 11 | S 12 1914

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains	
	Land, gently rolling, draining W.
	Soil, good brown, clay loam, medium texture, dry, on clay and gravel subsoil; suitable for dry farming.
	No timber. Undergrowth, sagebrush.
	Nov. 9, 1914.
	Nov. 10, 1914. At 10h a.m. apparent time I set off 41° 43' on lat. arc; 17° 02' S. on decl. arc; and determine a meridian with the solar at the cor. of secs. 1, 6, 7, and 12, on E. bdy. of Tp., heretofore described.
	Thence I run
	S. 88° 58' W. on a true line bet. secs. 1 and 12,
	Descend abruptly over broken stony mountainous land; through cedars.
5.25	Leave cedars, bearing N. and S.
6.30	Limestone ledge, 40 ft. high, bears N. and S.
11.70	Enter slide rock, bearing N. and S.
20.00	Leave slide rock at foot of abrupt descent, bearing N. and S.
32.75	Wood road, bears N. 10° E. and S. 10° W. Enter sagebrush, bearing N. and S.
39.51	The proportionate point for $\frac{1}{4}$ sec. cor.
	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{S\ 1}{\frac{1}{4}\ S\ 12}$ 1914
	Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
57.80	Wash, 50 lks. wide, 20 ft. deep, drains NW. Enter valley bears N. and S.
59.30	Road, Promontory to Salt Wells, bears N. 45° W. & S. 45° E.
59.70	Wire fence bears N. 45° W. about 7.00 chs. then W. and S. 45° E.
80.24	The cor. of secs. 1, 2, 11, and 12.
	From this cor. NW. cor. of enclosure bears N. 65° W. 3.45 chs.
	East 57.80 chs. rolling and broken hills and bench land;

Chains.	
	slopes stony; benches with light sandy loam, with some gravel and stones on gravel and limestone base. West 22.44 chs. valley land; gently rolling, draining NW.; soil, light, clay loam, medium texture; dry, with some gravel and stones, underlaid with gravel and limestone
	Timber, cedar. Undergrowth, sagebrush.
	Nov. 10, 1914: At this cor. I set off 17° 03'S. on the decl arc; and at 11h 44m a.m. l.m.t., observe the sun on the meridian; the resulting lat. is 41° 43'.
	S.89° 50'W. on a true line bet. secs. 2 and 11,
	Descend gently over rolling valley land; through sagebrush.
2.14	Wire fence bears N. and S.
2.20	Wood road, bears N. and S.
16.50	Small wash, drains NW.
35.50	Small wash, drains NW.
40.77	The proportionate point for $\frac{1}{4}$ sec. cor.
	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked
	S $\frac{1}{4}$ 2 / S 11 1914
	Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of corner.
61.80	Small wash drains NW.
81.54	The cor. of secs. 2, 3, 10, and 11.
	Land, rolling valley; soil, clay loam, medium texture, dry, with some gravel and stones, underlaid with gravel.
	No timber. Undergrowth, sagebrush.
	From cor. of secs. 1, 2, 11, and 12, I run
	N.1° 40'W. bet. secs. 1 and 2,

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	
	Descend gently over rolling land; through sagebrush.
2.40	Wire fence bears N.87° W. and S.87° E.
2.50	Wood road, bears E.and W.
19.60	Small wash 12 lks.wide, 5 ft.deep, drains NW.
22.20	Wash, 15 lks.wide, 6 ft.deep, drains NW.
32.60	Road, Promontory to Salt Wells bears N.45° W. and S.45° E.
40.07	The proportionate point for ¼ sec.cor.
	Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for ¼ sec.cor., with brass cap marked
	¼ S 2 | S 1 1°14
60.80	Foot of low bench, 30 ft.high, bears NE. and SW.
70.85	Small wash, 5 ft.deep, drains NW.
80.09	The cor.of secs.1,2,35, and 36 on N.bdy.of Tp.heretofore described.
	Land, gently rolling valley, draining NW.; soil, light clay loam, with some gravel and stones; underlaid with gravel and clay.
	No timber.
	Undergrowth, sagebrush.
	November 10, 1914.

	Oct.29, 1914: At 2h p.m.l.m.t., I set off 41° 38' on the lat.arc; 13° 22'S.on the decl.arc; and determine a meridian with the solar at the restored cor.of secs. 3,4,33, and 34 on S.bdy.of Tp.,heretofore described.
	Thence I run
	N.0° 38'W.on a true line bet.secs.33 and 34,
	Ascend gently over rolling valley land; through sagebrush.
0.30	Road to Cedar Springs bears N.80° E. and S.80° W.
13.00	Enter scattering cedars, bearing E.and W.
24.30	Wood road, bears N.45° E. and S.45° W.
40.50½	The proportionate point for ¼ sec.cor.
	Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for ¼ sec.cor., with brass cap marked

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	
	$\frac{1}{4}$ S 33 | S 34 1914
	from which
	A cedar 10 ins.dia.bears N.15° 45'E.74 lks.dist. marked $\frac{1}{4}$ S 34 B T
	A cedar, 6 ins.dia.bears N.79° W. 1.24 chs.dist. marked $\frac{1}{4}$ S 33 B T
	From this cor.Cedar Spring bears N.89° 45'E.
60.00	Leave scattering cedars, bearing NW. and SE.
65.00	Foot of bench, bearing E.and W.
71.30	Road, Cedar Springs to Lake bears N.80° W. and S.80° E.
75.00	Top of bench, 45 ft.high, bears N.80° W. and S.80° E.
81.01	Proportionate point for cor.of secs.27,28,33, and 34.
	Set an iron post 3 ft.long, 2ins.in dia., 24 ins.in the ground, for cor.of secs.27,28,33, and 34, with brass cap marked
	T 11 N | R 7 W S 28 | S 27 S 33 | S 34 1914
	Dig pits 18 x 18 x 12 ins.in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.
	From this corner J.G.Toombs' house, (empty at this time) bears W.7.70 chs.
	Land, gently rolling, sloping S.
	Soil, good sandy loam, medium texture, dry, underlaid with clay.
	Timber, cedar. Undergrowth, sagebrush.
	Land, suitable for dry farming.
	From the cor.of secs.26,27,34, and 35, I run S.87° 04'W.on a true line bet.secs.27 and 34,
	Descend gently over rolling land; through sagebrush.
2.40	Wire fence bears N.and S.3.84 chs.; thence E.
32.80	Wood road bears N.35° E. and S.35° W.

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	
40.58	The proportionate point for $\frac{1}{4}$ sec.cor.
	Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for $\frac{1}{4}$ sec.cor., with brass cap marked
	$\frac{S\ 27}{\frac{1}{4}\ S\ 34}$ 1914
	Dig pits 18 x 18 x 12 ins.E.and W.of post 3 ft.dist., and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high N. of cor.
41.00	Road, Cedar Springs to Salt Wells, bears N.and S.
77.40	Road, Cedar Springs to Monument, bears N.30° W. and S. 30° E.
81.16	The cor.of secs.27,28,33, and 34.
	Land, gently rolling, draining SW.
	Soil, good sandy loam, coarse texture, dry, with some gravel, on clay and gravel subsoil, suitable for dry farming.
	No timber.
	Undergrowth, sagebrush.
	From the cor.of secs.27,28,33, and 34, I run
	N.3° 25'W.on a true line bet.secs.27 and 28,
19.05	SE.cor.of J.G.Toombs' enclosure, bears W.80 lks.; fence extends N.1° 28'W. and S.88° 40'W.
30.00	Wire fence bears N.1° W. and S.1° E.
39.10	Wire fence bears S.88° 45'W. and N.88° 45'E.
40.00	Road, Cedar Springs to Monument, bears N.75° W. and S. 75° E.
40.53	The proportionate point for $\frac{1}{4}$ sec.cor.
	Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for $\frac{1}{4}$ sec.cor., with brass cap marked
	$\frac{1}{4}$ S 28 | S 27 1914
	Dig pits 18 x 18 x 12 ins.N.and S.of post 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high W.

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	
	of cor.
	From this cor. the NE. cor. of J.G. Toombs' fence bears S. 26° 30'E. 1.70 chs. dist.
41.00	Begin gentle ascent; through sagebrush, bears E. and W.
55.00	Top of gentle ascent, 65 ft. above cor.; thence across low ridge.
78.00	Dim wood road, bears E. and W.
81.06	The proportionate point for cor. of secs. 21, 22, 27, and 28.
	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 21, 22, 27, and 28, with brass cap marked

T 11 N | R 7 W
S 21 | S 22
S 28 | S 27
1914

	Dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.
	From this cor. SW. cor. of Wm. Horseley's fence bears S. 50° 30'E. 3.13 chs. dist.
	Wind mill, over a well, bears N. 66° 30'E.
	Land, gently rolling, draining S.
	Soil, good sandy loam, coarse texture, dry, with some gravel, on gravel and clay subsoil; suitable for dry farming.
	No timber.
	Undergrowth, sagebrush.
	From the cor. of secs. 22, 23, 26, and 27 I run S. 88° 22'W. on a true line bet. secs. 22 and 27,
	Descend gently over bench land; through sagebrush.
2.00	Enter scattering cedars, bearing N. 10° E. and S. 10° W.
6.30	Leave bench; descent becomes steeper, bears N. and S.
15.00	Leave cedars, bearing N. and S.
22.50	Foot of bench 100 ft. below sec. cor., bears N. and S.
27.80	Leave sagebrush; enter cultivated land, bears N. and S.

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains	
40.13½	The proportionate point for ¼ sec. cor.
	Note: This point falls in cultivated field; therefore at a point 2.47 hhs. S. of true point for ¼ sec. cor., I
	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for witness cor. to ¼ sec. cor. with brass cap mkd.
	T 11 N R 7 W S 22 ——— WC¼ S 27 1914
	Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.
	Corner set in fence line, bearing N.89°E. and S.89° W.
	From this cor. wind mill bears N.51° 30'W.
53.20	Road, Cedar Springs to Salt Wells bears N. and S.
77.80	Leave cultivated land, bears N. and S.
77.90	Wire fence bears N. and S.
80.27	The cor. of secs. 21, 22, 27, and 28.
	Land, gently rolling.
	Soil, good clay loam, medium texture, dry, with some gravel, on clay and gravel subsoil, suitable for dry farming.
	Timber, cedar.
	Undergrowth, sagebrush.
	October 29, 1914.

	Oct. 30, 1914: Sky overcast solar observations impossible.
	N.1° 01'W. on a true line bet. secs. 21 and 22,
	Across top of low ridge, bears E. and W.
9.00	Begin to descend gently; through sagebrush.
40.51	The proportionate point for ¼ sec. cor.
	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ S 21 | S 22 1914
	Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.;

Chains.	
	and raise a mound of earth 3½ ft.base, 1½ ft.high W. of cor.
	Descent becomes gradual.
78.10	Wire fence bears E.and W.
81.02	The proportionate point for cor.of secs.15,16,21, and 22. Set an iron post 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.15,16,21, and 22, with brass cap marked

T 11 N	R 7 W
S 16	S 15
S 21	S 22

1914

Dig pits 18 x 18 x 12 ins.in each sec.5½ ft.dist., and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

From this cor.SW.cor.of fence bears S.56° 30'W.5.72 chs.

SE.cor.of fence bears S.21° E.3.25 chs.

NW.Cor.of Wm.Horsley's field bears S.35° 10'E.3.75 chs.

Land, rolling.

Soil, good clay loam; fine texture, dry, mixed with fine gravel, on clay subsoil; suitable for dry farming.

No timber.

Undergrowth, sagebrush.

From cor.of secs.14,15,22, and 23, I run S.88° 40'W.on a true line bet.secs.15 and 22

	Descend gently over rolling valley land; through sagebrush.
0.10	Leave sagebrush; enter cultivated land, bearing N.and S.
11.00	Wood road, bears N.10° E. and S.10° W.
12.10	Leave cultivated land, bearing N.9° E. and S.9° W.;enter sagebrush.
12.15	Wire fence, bears N.9° E. and S.9° W.
25.90	Road, Cedar Springs to Salt Wells, bears N.10° E. and S.10° W.
35.20	Small wash drains NW.

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains	
40.23½	The proportionate point for ¼ sec.cor.
	Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for ¼ sec.cor., with brass cap marked
	S 15 / ¼ / S 22 / 1914
	Raise a mound of stone 2 ft.base, 1½ ft.high N.of cor.
	From this cor.Wm.Horsley's house bears S.70° E.
	Granary bears S.60° E.
	Wind mill bears S 66° 15'E.
79.40	Wire fence bears N.1°30'W. and S.1° 30'E.
80.47	The cor.of secs.15,16,21, and 22.
	Land, gently rolling.
	Soil, fine clay loam, dry, with some gravel on clay subsoil. Suitable for dry farming.
	No timber. Undergrowth sagebrush.

	N.2° 01'W.on a true line bet.secs.15 and 16,
	Over gently rolling land, draining NW.; through sagebrush.
7.50	Small wash, drains NW.
38.10	Wire fence bears E.and W.
40.51	The proportionate point for ¼ sec.cor.
	Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for ¼ sec.cor., with brass cap marked
	¼ S 16 | S 15 / 1914
	Dig pits 18 x 18 x 12 ins.N.and S.of post 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W. of cor.
	From this cor.NW.cor.of fence bears S.45° 10'W.4.88 chs.
	NE.cor.of fence bears S.22° 45'E.3.90 chs.
44.50	Wash, 14 lks.wide, 7 ft.deep, drains NW.
61.50	Shallow wash, drains NW.

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	
68.40	Wash, 15 lks.wide, 8 ft.deep, drains NW.
81.02	The proportionate point for cor.of secs.9,10,15, and 16.
	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, with brass cap marked
	T 11 N | R 7 W S 9 | S 10 S 16 | S 15 1914
	Dig pits 18 x 18 x 12 ins.in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.
	From this cor.junction of two fences one from S. and one from E.bears S.85° 35'E.1.95 chs.
	Land, rolling.
	Soil, clay loam, fine texture, dry, on clay subsoil.
	No timber. Undergrowth sagebrush.
	October 30,1914.
	Oct.31,1914: At the cor.of secs.10,11,14, and 15 I set off 14° 00'S.on decl.arc; and at 11h 44m a.m.l.m.t., observe the sun on the meridian; the resulting lat.is 41° 42'. Thence I run
	S.88° 47'W.on a true line bet.secs.10 and 15,
	Descend gently along S.side of cultivated land, on N. side of wire fence.
10.10	Wire fence extends N.
21.00	SW.cor.of cultivated land; enter sagebrush bearing N. and S.
34.00	Road, Cedar Springs to Salt Wells bears N.and S.
40.18½	The proportionate point for ¼ sec.cor.
	Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for ¼ sec.cor., with brass cap marked
	S 10 ¼ S 15 1914
	Dig pits 18 x 18 x 12 ins.E.and W.of post 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	
	of cor.
78.38	Wire fence bears N.1° W. and S.1° E.
80.37	The cor.of secs.9,10,15, and 16.
	Land, rolling.
	Soil, good clay loam, fine texture, dry, on clay sub-soil.
	No timber. Undergrowth sagebrush.
	N.1° 10'W.bet.secs.9 and 10,
	Over gently rolling land; through sagebrush.
10.60	Wash, 15 lks.wide, 6 ft.deep, drains NW.
37.20	Wash, 16 lks.wide, 6 ft.deep, drains NW.
40.51	The proportionate point for ¼ sec.cor.
	Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for ¼ sec.cor., with brass cap marked
	¼ S 9 | S 10 1914
	Dig pits 18 x 18 x 12 ins.N.and S.of post 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W. of cor.
46.70	Wash, 25 lks.wide, 9 ft.deep, drains N.75° W.
51.02	The proportionate point for cor.of secs.3,4,9, and 10.
	Set an iron post 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.3,4,9, and 10, with brass cap marked
	T 11 N | R 7 W S 4 | S 3 S 9 | S 10 1914
	Dig pits 18 x 18 x 12 ins.in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.
	From this cor.NW.cor.of fence bears N.88° E.1,53 chs. dist.
	Land, rolling.
	Soil, light, clay loam; fine texture; dry; on clay sub-soil.

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	
	No timber.
	Undergrowth, sagebrush.

	From cor. of secs. 2, 3, 10, and 11 I run
	S. 89° 21' W. on a true line bet. secs. 3 and 10,
	Descend gently over rolling valley, draining NW., along S. side of fence.
31.35	Road, Cedar Springs to Salt Wells, bears N. and S.
40.26½	The proportionate point for ¼ sec. cor.
	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked
	S ¼ 3 / S 10 / 1914
	Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.
79.00	Wash, 30 lks. wide, 10 ft. deep, drains N. 75° W.; also wire fence bears N. and S.
80.53	The cor. of secs. 3, 4, 9, and 10.
	Land, gently rolling.
	Soil, light, clay loam; medium texture; dry, on clay subsoil.
	No timber.
	Undergrowth, sagebrush.
	October 31, 1914.

	Nov. 1, 1914:
	N. 0° 51' W. on a true line bet. secs. 3 and 4,
	Over gently rolling land; through sagebrush.
0.20	Wash, 20 lks. wide, 9 ft. deep, drains N. 75° W.
10.00	Leave sagebrush, bears NE. and SW.
15.00	Small wash drains W.
40.51	The proportionate point for ¼ sec. cor.

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	
	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S 4 | S 3 1914
	Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.
58.00	Small wash, drains N.80° W.
80.50	Small wash, drains N.80° W.
81.12	The cor. of secs. 3, 4, 33, and 34 on N. bdy. of Tp., heretofore described.
	Land, gently rolling; draining NW.
	Soil, light clay loam; fine texture; dry, on clay subsoil.
	No timber. Undergrowth sagebrush.
	November 1, 1914.
	John A. Dougall U.S. Surveyor.

	Oct. 29, 1914: At 2h p.m. apparent time I set off 41°38' on lat. arc; 13° 22' S. on decl. arc; and determine a meridian with the solar at the cor. of secs. 4, 5, 32, and 33 on S. bdy. of Tp., heretofore described.
	Thence I run
	N.1° 15' W. on a true line bet. secs. 32 and 33,
	Ascend gently over rolling land; through sagebrush.
40.63½	The proportionate point for ¼ sec. cor.
	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S 32 | S 33 1914
	Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
45.00	Top of low bench bearing S.80° W. and N.80° E.
75.00	Foot of low mountains, bearing N.45° E. and S.45° W.
81.27	The proportionate point for cor. of secs. 28, 29, 32, and 33.
	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, with brass

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	
	cap marked T 11 N | R 7 W S 29 | S 28 S 32 | S 33 1914 Raise a mound of stone 2 ft.base, 1½ ft.high W.of cor. Land, rolling, sloping S. Soil, light, clay loam, 6 to 12 ins.deep, medium texture, dry, on clay and gravel subsoil. No timber. Undergrowth sagebrush.
	From cor.of secs.27,28,33, and 34, I run S.88° 21'W.on a true line bet.secs.28 and 33, Over gently rolling land; through scattering sagebrush.
23.70	Road, Cedar Springs to Lake, bears N.40° W. and S.40° E.
40.57½	The proportionate point for ¼ sec.cor. Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for ¼ sec.cor., with brass cap marked S ¼ 28 S 33 1914 Dig pits 18 x 18 x 12 ins.E.and W.of post 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N. of cor.
62.00	Scattering cedars S.of line, in basin 50 ft.below ¼ sec cor.
70.00	Ascend foot of low mountains bearing N.25° E. and S.25° W.
75.00	Spur, 40 ft.above basin, projects S.
80.00	Small hollow, 20 ft.below spur, drains S.
81.15	The cor.of secs.28.29,32, and 33. Land, rolling and rolling hills, draining S. Soil, light clay loam with some gravel; medium texture, dry, on clay and gravel subsoil. Timber, scattering cedar. Undergrowth, sagebrush.

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains	
	N.2° 44'W.on a true line bet.secs.28 and 29,
	Ascend over rolling hills or mountains; through sage-brush.
20.00	Enter scattering cedars, bearing N.50° W. and S.50° E.
29.00	Leave cedars, bearing E.and W.
40.64½	The proportionate point for ¼ sec.cor.
	Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for ¼ sec.cor., with brass cap marked ¼ S 29 | S 28 1914
	Raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
44.80	Ridge, 50 ft.above ¼ sec.cor. bears N.45° E. and S.45° W.
50.00	Enter scattering cedars, bearing E.and W.
56.70	Road, Cedar Springs to Lake bears N.80° W. and S.80° E.
65.00	Leave cedars, bearing NE. and SW.
80.00	Wire fence bears E. and W.; enter Hannah Valentine's field bearing E.and W.
81.29	The proportionate point for cor.of secs.20,21,28, and 29.
	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, with brass cap marked T 11 N | R 7 W S 20 | S 21 S 29 | S 28 1914
	Raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
	Land, rolling mountains.
	Soil, light, clay loam, 4 to 12 ins.deep, medium texture, dry, with some gravel and stone, on clay and gravel subsoil.
	Timber, cedar. Undergrowth, sagebrush.

From cor.of secs.21,22,27, and 28 I run

S.88° 32'W.on a true line bet.secs.21 and 28,

Over rolling hills; along top of ridge; through sagebrush

Chains.	
21.00	Leave top of ridge, descend, bearing N.80° E. and S.80° W.
25.00	Head of small draw, 25 ft. deep, drains N.
32.20	Road, Cedar Springs to Monument, bears N.40° W. and S. 40° E.
40.00	Top of small spur, 35 ft. above draw, projects N.
40.08	The proportionate point for ¼ sec. cor.
	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked
	S 21 / ¼ / S 28 / 1914
	Raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
42.00	Descend abruptly, 60 ft., bearing N.80° E. and S.80° W.
48.50	Foot of abrupt descent, bearing N.80° E. and S.80° W.
77.90	Wire fence bears N. and S. Enter Valentine's field, bearing N. and S.
80.16	The cor. of secs. 20, 21, 28, and 29.
	Land, rolling.
	Soil, good sandy loam, with some gravel on clay and gravel subsoil.
	No timber.
	Undergrowth, sagebrush.
	October 29, 1914.

Oct. 30, 1914: Sky overcast, solar observations impossible.
N.1° 19'W. on a true line bet. secs. 20 and 21,
Descend gently, over N. slope through Valentine's field.

9.50	Leave cultivated land, bearing E. and W.; enter sagebrush.
22.00	Swale, 30 ft. deep, drains W.
28.70	Low spur, 20 ft. high projects W.
40.63½	The proportionate point for ¼ sec. cor.
	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ S 20 | S 21 / 1914

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	
	Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
78.90	Wire fence bears E. and W.
81.27	The proportionate point for cor. of secs. 16, 17, 20, and 21.
	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, with brass cap marked
	T 11 N R 7 W S 17 | S 16 S 20 | S 21 1914
	Dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
	From this cor. NE. fence cor. bears S. 19° 30' E. 2.60 chs.
	Land, rolling, sloping N.
	Soil, good sandy loam, with some clay and gravel, on clay and gravel subsoil.
	No timber.
	Undergrowth, sagebrush.
	From cor. of secs. 15, 16, 21, and 22, I run
	S. 88° 41' W. on a true line bet. secs. 16 and 21,
	Over rolling land, sloping N.
4.75	Wire fence bears N. and S
5.00	Enter sagebrush, bears N. and S.
16.90	Wash, 15 lks. wide, 6 ft. deep, drains N. 20° W.
27.50	Wash, 20 lks. wide, 6 ft. deep, drains N.
39.70	Wash, 30 lks. wide, 7 ft. deep, drains N.
40.27	The proportionate point for ¼ sec. cor.
	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked
	S ¼ 16 S 21 1914
	Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.
44.20	Wash, 20 lks. wide, 7 ft. deep, drains N.

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	
58.30	Wash, 25 lks.wide, 8 ft.deep, drains N.
74.00	Road, Cedar Springs to Monument, bears N.45° W. and S. 45° E.
80.54	The cor.of secs.16,17,20, and 21.
	Land, rolling, sloping N.
	Soil, good clay loam, 10 to 20 ins.deep; fine texture, dry, on clay subsoil.
	No timber. Undergrowth, sagebrush.
	N.2° 03'W.on a true line bet.secs.16 and 17,
	Descend gently over rolling land, sloping N.; through sagebrush.
11.25	Road, Cedar Springs to Monument, bears N.45° W. and S. 45° E.
40.63½	The proportionate point for ¼ sec.cor.
	Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for ¼ sec.cor., with brass cap marked ¼ S 17 | S 16 1914
	Dig pits 18 x 18 x 12 ins.N.and S.of post 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W. of cor.
46.00	Wash, 60 lks.wide, 40 ft.deep, drains N.30° E.
81.27	The proportionate point for cor.of secs.8,9,16, and 17.
	Set an iron post 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.8,9,16, and 17, with brass cap marked T 11 N | R 7 W S 8 | S 9 S 17 | S 16 1914
	Raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
	Land, rolling N.slope.
	Soil, good clay loam, 5 to 16 ins.deep; fine texture, dry, on clay subsoil, with some stones and gravel.
	No timber. Undergrowth, sagebrush.

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	
	From the cor. of secs. 9, 10, 15, and 16, I run
	S. 88° 45' W. on a true line bet. secs. 9 and 16,
	Over rolling land; through sagebrush.
30.00	Wash, 30 lks. wide, 10 ft. deep, drains N. 35° W.
37.00	Wash, 40 lks. wide, 11 ft. deep, drains N. 35° W.
40.20½	Proportionate point for ¼ sec. cor.
	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground; for ¼ sec. cor., with brass cap marked
	S 9 / ¼ / S 16 / 1914
	Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.
43.00	Wash, 25 lks. wide, 12 ft. deep, drains N.
55.30	Wash, 25 lks. wide, 15 ft. deep, drains N.
65.00	Wash, 20 lks. wide, 10 ft. deep, drains N.
80.41	The cor. of secs. 8, 9, 16, and 17.
	Land, rolling, draining N.
	Soil, clay loam 5 to 20 ins. deep, fine texture, dry, on clay subsoil.
	No timber. Undergrowth, sagebrush.
	October 30, 1914.
	Thos. Rathbone
	U.S. Transitman.

	Nov. 1, 1914: At 10h a.m. l.m.t., I set off 41° 42' on the lat. arc; 14° 18' S. 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. 1° 19' W. on a true line bet. secs. 8 and 9,
	Descend gently over rolling land; through sagebrush.
2.15	SE. cor. of W. A. Richardson's fence bears W. 2.35 chs.
40.63½	The proportionate point for ¼ sec. cor.

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	
	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{1}{4}$ S 8 | S 9 1914
	Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
43.80	Wash, 30 lks. wide, 10 ft. deep, drains N. 30° W.
81.27	The proportionate point for cor. of secs. 4, 5, 8, and 9.
	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 4, 5, 8, and 9., with brass cap marked T 11 N | R 7 W S 5 | S 4 S 8 | S 9 1914
	Dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
	From this cor. NE. cor. of W.A. Richardson's fence bears S. 24° W. 34 lks. dist.
	Land, gently rolling; sloping N.
	Soil, light clay loam, 4 to 10 ins. deep, fine texture.
	No timber.
	Undergrowth, sagebrush.
	From the cor. of secs. 3, 4, 9, and 10, I run S. 89° 06' W. on a true line bet. secs. 4 and 9, Over gently rolling land; through sagebrush.
13.00	Wash, 20 lks. wide, 6 ft. deep, drains N 45° W.
38.60	Wash, 30 lks. wide, 12 ft. deep, drains N. 60° W.
40.27½	The proportionate point for $\frac{1}{4}$ sec. cor.
	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked S 4 $\frac{1}{4}$ S 9 1914
	Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.;

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	
	and raise a mound of earth 3½ ft.base, 1½ ft.high N. of cor.
66.00	Wash, 20 lks.wide, 8 ft.deep, drains N.
75.40	Wash, 10 lks.wide, 4 ft.deep, drains N.
80.55	The cor.of secs.4,5,8, and 9.
	Land, gently rolling; draining NW.
	Soil, light, clay loam, with some alkali, 4 to 10 ins. deep; fine texture, dry, on clay subsoil.
	No timber. Undergrowth, sagebrush.
	Nov.1, 1914: At this cor.I set off 14° 20'S.on decl.arc; and at 11h 44m a.m.l.m.t., observe the sun on the meridian; the resulting lat.is 41° 43'.
	N.0° 50'W.on a true line bet.secs.4 and 5,
	Over nearly level land; draining NW.; through sagebrush.
10.00	Leave sagebrush, bears NE. and SW.
28.90	Wash, 16 lks.wide, 5 ft.deep, drains N.30° W.
39.30	Wash, 10 lks.wide, 5 ft.deep, drains N.25° W.
40.64	The proportionate point for ¼ sec.cor.
	Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for ¼ sec.cor., with brass cap marked ¼ S 5 | S 4 1914
	Dig pits 18 x 18 x 12 ins.N.and S.of post, 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W. of cor.
50.00	Enter scattering greasewood, bearing NE. and SW.
70.00	Wash, 15 lks.wide, 7 ft.deep, drains N.40° W.
73.40	Wash, 12 lks.wide, 6 ft.deep, drains N.45° W.
81.33	The cor.of secs.4,5,32, and 33 on N.bdy.of Tp.
	Land, gently rolling; draining NW.
	Soil, sandy loam, with some alkali, 5 to 12 ins.deep; medium texture; dry, on clay subsoil.
	No timber.

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	
	Undergrowth, sagebrush and greasewood.
	Nov. 1, 1914.
	John W. Dougall U.S. Surveyor.
	Oct. 31, 1914:
	From the re-established cor. of secs. 5, 6, 31, and 32 on S. bdy. of Tp., heretofore described, I run
	N. 1° 22' W. on a true line bet. secs. 31 and 32,
	Ascend over rolling hills or mountains; through sage-brush.
16.00	Point of spur, on E. slope of ridge, projects E. 45 ft. above sec. cor.
40.78½	The proportionate point for ¼ sec. cor.
	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ S 31 | S 32 1914
	Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
70.50	Small draw, 20 ft. deep, drains S. 50° E.
81.57	The proportionate point for cor. of secs. 29, 30, 31, and 32.
	Set an iron post 3 ft. long 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 29, 30, 31, and 32, with brass cap marked
	T 11 N | R 7 W S 30 | S 29 S 31 | S 32 1914
	Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	From this corner a limestone 6 x 5 x 6 ins. above ground loosely set in a mound of stones, plainly marked with 5 notches on N. and 1 notch on S. edges, bears N. 59° 40' E 2.50chs. dist. No accessories.
	Note: This is probably the cor. set by Deputy Jos. Gorlinski for secs. 25, 30, 31, and 36 on his E. bdy. of T.11 N. R.8 W.

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	
	Land, rolling mountains, sloping SE.
	Soil, gravelly, with clay and stones, on stone and gravel base.
	No timber. Undergrowth, sagebrush.
	Thos. C. Hachtbone U.S.Transitman. October 31, 1914.
	Nov.5, 1914: At 8h a.m.l.m.t., I set off 41° 39' on lat. arc; 15° 30'S.on decl.arc; and determine a meridian with the solar at the cor.of secs.28,29,32, and 33.
	Thence I run
	S.88° 17'W.on a true line bet.secs.29 and 32,
	Ascend gently over rolling mountainous land; through sagebrush.
40.52	The proportionate point for $\frac{1}{4}$ sec.cor.
	Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for $\frac{1}{4}$ sec.cor., with brass cap marked S 29 $\frac{1}{4}$ S 32 1914
	Raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor.
60.00	Ascent becomes steeper, bears N.and S.
79.00	Spur, 100 ft.high, projects S.
81.04	The cor.of secs.29,30,31, and 32.
	Land, rolling mountains.
	Soil, light, sandy loam with some gravel and stones, underlaid with gravel and stone.
	No timber. Undergrowth, sagebrush.
	S.88° 21'W.on a true line bet.secs.30 and 31,
	Descend through sagebrush, over stony, rolling mountains.
7.00	Draw, 50 ft.deep, drains S.30° E.
25.00	Ridge, 100 ft.above draw, bears N.and S.

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains	
40.54	The proportionate point for $\frac{1}{4}$ sec.cor.
	Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for $\frac{1}{4}$ sec.cor., with brass cap marked
	S 30 / $\frac{1}{4}$ / S 31 / 1914
	Raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor.
41.00	Begin abrupt descent, bearihg N.and S.
44.50	Foot of abrupt descent 125 ft.below $\frac{1}{4}$ sec.cor.; then descend over a series of narrow benches or old shore marks, bearing N.and S.
81.04	The cor.of secs.30 and 31 on W.bdy.of Tp.,beretofore desc.
	This cor.is 350 ft.below ridge.
	Land, rolling mountains.
	Soil, light, sandy loam, with gravel and stones, underlaid with gravel and stone.
	No timber.
	Undergrowth, sagebrush.
	John W. Dregall U.S.Surveyor. Nov.5, 1914.

	Oct.31, 1914:
	From the cor.of secs.29,30,31, and 32, I run
	N.2° 05'W.on a true line bet.secs.29 and 30,
	Ascend through sagebrush, over rolling mountains.
5.00	Spur, 50 ft.high, projects S.35° E.
12.50	Head of draw, 25 ft.deep, drains E.
16.00	Ridge, 50 ft.high, bears NE. and SW.
20.00	Enter small valley, bearing E.and W.
$40.78\frac{1}{2}$	The proportionate point for $\frac{1}{4}$ sec.cor.
	Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground for $\frac{1}{4}$ sec.cor., with brass cap marked
	$\frac{1}{4}$ S 30 | S 29 / 1914

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	
	Raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
42.00	Leave valley; ascend bearing E.and W.
51.00	Spur, 100 ft.high, projects W.
70.00	Swale, 125 ft.below spur, drains SE.
80.50	SW.cor.of wire fence bears E.70 lks.dist. Valentine's field.
81.57	The proportionate point for cor.of secs.19,20,29, and 30. Set an iron post 3 ft.long, 2 ins.in dia., 24 ins.in the ground for cor.of secs.19,20,29, and 30, with brass cap marked

T 11 N | R 7 W
S 19 | S 20
S 30 | S 29
1914

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

Land, rolling mountains.

Soil, light, poor, sandy loam, with gravel and stones underlaid with gravel and stone.

No timber. Undergrowth, sagebrush.

Note: A limestone 4 x 9 x 10 ins.lying loose on the ground, dimly marked 2 notches on one edge and 4 notches on opposite edge, bears S.82° 08'E.5.55 chs. This is probably the cor.set by Deputy Jos.Gorlinski for cor.of secs.19,24,25, and 30 in his erroneous survey of E.bdy.T.11 N.R.8 W.

October 31, 1914.

Thos Rathbone

U.S.Transitman.

Nov.5, 1914:

From the cor.of secs.20,21,28 and 29, I run S.88° 41'W.on a true line bet.secs.20 and 29, Over rolling land; through cultivated land, ascending gently.

36.55	Leave cultivated land, bearing N.and S.; extends S.50lks.
40.14½	Proportionate point for ¼ sec.cor.

Chains.	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked S 20 $\frac{1}{4}$ S 29 1914
	Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
40.50	Road, Cedar Springs to Lake, bears N.70° W. and S.70° E.
52.00	Leave rolling; enter rolling mountainous land; ascending stony slope, bearing N. and S.
65.00	Top of ridge, 65 ft. high, bears N. and S.
79.55	Wire fence, bears N.1° W. and S.1° E.
80.29	The cor. of secs. 19, 20, 29, and 30.
	East 52.00 chs. rolling land, draining N. Soil good sandy loam, 5 to 10 ins. deep; medium texture, dry, with some gravel on clay and gravel subsoil, capable of and is being dry farmed; wheat and barley crops raised. West 28.29 chs. rolling mountains, stony; not practicable for dry farming.
	No timber. Scrubby growth of sagebrush.
	S.88° 47' W. on a true line bet. secs. 19 and 30,
	Descend gently over rolling mountainous land; through scattering growth of sagebrush.
10.00	Ridge, bears N. and S., 25 ft. below sec. cor.
40.11	Proportionate point for $\frac{1}{4}$ sec. cor.
	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked S 19 $\frac{1}{4}$ S 30 1914
	Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
	This cor. is 200 ft. below ridge.
75.70	Bench, bears N. and S.
78.70	Wood road, bears N.10° E. and S.10° W.
80.07	The cor. of secs. 19 and 30 on W. bdy. of Tp., heretofore desc.
	This cor. is 350 ft. below $\frac{1}{4}$ sec. cor.

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.

Land, rolling, mountainous.

Soil, light sandy loam, with some stones and gravel underlaid with stones and gravel.

No timber. Scrubby growth of sagebrush.

Nov. 5, 1914.

John W. Dougall
U.S.Surveyor.

Oct.31, 1914: From the cor.of secs.19,20,29, and 30 I run

N.1° 20'W.on a true line bet.secs.19 and 20,

Descend gently over rolling mountains; through scattering sagebrush; along W.side of wire fence.

37.25 Road, Cedar Springs to Lake, bears N.60° W. and S.60° E.

Enter W.side of small valley, 100 ft.below sec.cor., bears N.10° W. and S.10° E.

40.78½ Proportionate point for ¼ sec.cor.

Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for ¼ sec.cor., with brass cap marked

¼ S 19 | S 20
1914

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

81.57 The proportionate point for cor.of secs.17,18,19, and 20,

Set an iron post 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.17,18,19, and 20, with brass cap marked

T 11 N | R 7 W
S 18 | S 17
S 19 | S 20
1914

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

From this cor.the NW.cor.of field fence bears S.25° 45' E.2.60 chs.dist.

NW.cor.of plot of cultivated land of about 20 acres,

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	
	bears S.26° E. 2.75 chs.
	A limestone 5 x 5 x 6 ins. lying loose on the ground, dimly marked with 3 notches on opposite edges, bears S.72° 30'E. 6.15 chs. dist. No accessories.
	Note: This is probably the corner marked by Deputy Jos. Gorlinski, for cor. of secs. 13, 18, 19, and 24, on E. bdy. T.11 N.R.8 W.
	South 37.25 chs. rolling mountains, sloping N. and NE. Soil, stony and gravelly. North 44.32 chs. gently rolling valley land; soil, good clay loam, 5 to 20 ins. deep, fine texture, dry, on clay subsoil.
	No timber.
	Undergrowth, sagebrush.
	Thos. C. Rathbone U.S. Transitman. October 31, 1914.
	Oct. 30, 1914. From the cor. of secs. 16, 17, 20, and 21 I run
	S.89° 00'W. on a true line bet. secs. 17 and 20,
	Ascend gently, over rolling land; through sagebrush.
14.00	Wash, 1.00 ch. wide, 30 ft. deep, drains N.10° E.
23.40	Foot of bench, bears N. and S.
27.00	Top of bench, 35 ft. high, bears N. and S.
40.28½	The proportionate point for ¼ sec. cor.
	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked S 17 ¼ S 20 1914
	Raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
42.50	Foot of abrupt ascent; enter rolling mountains bearing N. and S.
48.00	Thence gentle ascent to
54.00	Top of ridge, 125 ft. high, bears N. and S.

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	
69.00	Enter N.end of small valley, 50 ft.below ridge.
80.57	The true point for cor.of secs.17,18,19, and 20.
	Note: The corner for these secs.was set on Oct.31,1914.
	Land, rolling and rolling mountains.
	Ridges and steep slopes with stony gravelly soil.
	Benches and valleys with good clay loam, medium and fine texture; dry, on clay and gravel subsoil.
	No timber. Undergrowth, sagebrush.
	From the true point for cor.of secs.17,18,19, and 20 I run
	S.89° 00'W.on a true line bet.secs.18 and 19,
	Ascend over valley land; through sagebrush.
3.00	Leave valley; ascend, bearing N.and S.
7.00	Ridge, 45 ft.above valley, bears N.and S.
40.23	The proportionate point for $\frac{1}{4}$ sec.cor.
	Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for $\frac{1}{4}$ sec.cor., with brass cap marked
	S 18 / $\frac{1}{4}$ / S 19 / 1914
	Raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor.
	This corner is 110 ft.below ridge.
47.50	Road, Cedar Springs to Lake, bears N.60° W. and S.60° E.
56.50	Road, Cedar Springs to Lake bears N.70° W. and S.70° E.
80.40	The cor.of secs.18 and 19, on W.bdy.of Tp.,heretofore desc.
	This corner is 225 ft.below $\frac{1}{4}$ sec.cor.
	Land, rolling mountains.
	Soil, light sandy loam with gravel and stones, underlaid with gravel and stone.
	No timber. Undergrowth, sagebrush.

October 30,1914.

John W. Dougall
U.S.Surveyor.

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	
	Oct.31, 1914:
	From the cor.of secs.17,18,19 and 20, I run
	N.1° 46'W.on a true line bet.secs.17 and 18,
	Ascend over valley land; through sagebrush.
14.50	Ridge, 80 ft.high, bears E. and S.20°W.
40.78½	The proportionate point for ¼ sec.cor.
	Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for ¼ sec.cor., with brass cap marked
	¼ S 18 | S 17 1914
	Raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
	Thence descend, over a series of small benches.
81.57	The proportionate point for cor.of secs.7,8,17, and 18.
	Set an iron post 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.7,8,17, and 18, with brass cap marked
	T 11 N | R 7 W S 7 | S 8 S 18 | S 17 1914
	Raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
	From this corner a limestone 6 x 7 x 8 ins.above ground, loosely set, dimly marked with 4 notches on S., 2 no' notches on N.edges, bears S.65° E.8.67 chs.dist. No accessories.
	Note: This is probably the cor.set by Deputy Jos.Gorlinski in his survey of E.bdy.of T.11 N.R.8 W.
	Land, rolling hills and mountains.
	Soil, light, sandy loam, with some stones and gravel, underlaid with stone and gravel.
	No timber. Undergrowth, sagebrush.
	Thos. C. Rathbone U.S.Transitman. October 31, 1914.

Nov.5, 1914: At the cor.of secs.8,9,16, and 17, I set

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	
	off 15° 35'S.on decl.arc; and at 11h 44m a.m.l.m.t., observe the sun on the meridian; the resulting lat.is 41° 42'
	Thence I run
	S.89° 06'W.on a true line bet.secs.8 and 17,
	Ascend gently over rolling land, sloping N.; through sagebrush.
9.00	Wash, 25 lks.wide, 7 ft.deep,drains N.
11.30	Wood road, bears N.and S.
23.10	Wash, 20 lks.wide, 5 ft.deep, drains N.
40.18	The proportionate point for $\frac{1}{4}$ sec.cor.
	Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for $\frac{1}{4}$ sec.cor., with brass cap marked
	S 8 $\frac{1}{4}$ S 17 1914
	Dig pits 18 x 18 x 12 ins.E.and W.of post 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high N. of cor.
55.00	Road, Cedar Springs to Monument, bears S 45° E. and N. 45° W.75 lks., then W.
80.36	The cor.of secs.7,8,17, and 18.
	Land, rolling, draining N.
	Soil, light, clay loam, 4 to 10 ins.deep; fine texture, with some stones; underlaid with stones and clay.
	No timber. Undergrowth, sagebrush.
	S.89° 09'W.on a true line bet.secs.7 and 18,
	Ascend gently, over rolling land; through sagebrush.
4.00	Foot of rolling mountains, bearing N.and S.
7.00	Spur, 50 ft.high, projects N.
13.00	Center of small basin, drains N,40 ft.deep.
27.00	Ridge, 150 ft.high, bears N.and S.
40.15	Proportionate point for $\frac{1}{4}$ sec.cor.
	Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	
	ground, for $\frac{1}{4}$ sec.cor., with brass cap marked S 7 $\frac{1}{4}$ S 18 1914
	Raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor.
55.00	Begin abrupt descent, bearing N.and S.
77.00	Foot of mountains; enter greasewood flat bearing N.and S.
80.18	The cor.of secs.7 and 18 on W.bdy.of Tp.; heretofore desc.
	Land, rolling and rolling mountains.
	Soil, sandy loam with gravel and stones on ridges and slopes; flats and valleys good clay loam, on clay subsoil.
	No timber. Undergrowth, sagebrush and greasewood.
	November 5, 1914. John W. Dougall U.S.Surveyor.
	Oct.31, 1914:
	From the cor.of secs.7,8,17, and 18, I run
	N.1° 47'W.on a true line bet.secs.7 and 8.
	Descend gently over rolling land; through sagebrush.
1.10	Road, Cedar Springs to Monument, bears E.and W.
1.30	SW.cor.of W.T.Richardson's fence, bears W.30 lks.
12.00	Wire fence bears N.1° E. and S.1° W.
15.00	Road, Cedar Springs to Monument, bears N.1° W. and S.1° E.
27.75	Road, Cedar Springs to Monument, bears N.50° W. and S. 50° E.
40.78½	Proportionate point for $\frac{1}{4}$ sec.cor.
	Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for $\frac{1}{4}$ sec.cor.for secs.7 and 8, with brass cap marked $\frac{1}{4}$ S 7 | S 8 1914
	Dig pits 18 x 18 x 12 ins.N.and S.of post 3 ft.dist.;

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	
	and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
50.00	Enter lower level and nearly level land bearing NW. and SE.
81.57	The proportionate point for cor. of secs. 5, 6, 7, and 8. 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, with brass cap marked

T 11 N | R 7 W
S 6 | S 5
S 7 | S 8
1914

Dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

From this cor. the NW. cor. of W.T. Richardson's fence bears S. 65° E. 1.07 chs.

Land, rolling.

Soil, fine clay loam, with some gravel, on clay subsoil.

No timber. Undergrowth, sagebrush.

October 31, 1914.

Thos. O. Rathbone

U.S. Transitman.

Oct. 31, 1914: At 3h p.m. apparent time, I set off 41° 43' on lat. arc; 14° 02' S. on decl. arc; and determine a meridian with the solar at the cor. of secs. 4, 5, 8, and 9. Thence I run

S. 89° 33' W. on a true line bet. secs. 5 and 8,

Over nearly level land; through scattering sagebrush.

7.70	Wash, 10 lks. wide, 5 ft. deep, drains N.
21.00	Wash, 12 lks. wide, 6 ft. deep, drains N.
33.10	Wash, 12 lks. wide, 5 ft. deep, drains N. 20° W.
40.37	Proportionate point for $\frac{1}{4}$ sec. cor. Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

S $\frac{1}{4}$ 5
S 8
1914

Chains. Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.

54.25 Wash, 14 lks. wide, 7 ft. deep, drains N.20° E.

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

Land, nearly level, draining N.

Soil, light, sandy loam, with some clay, 5 to 12 ins. deep, medium texture, dry, on clay subsoil.

No timber. Undergrowth, scattering sagebrush.

S.89° 30' W. on a true line bet. secs. 6 and 7,

Over nearly level land; through scattering sagebrush.

20.00 Leave flat; ascend bearing N. and S.

35.00 Top of low ridge, 75 ft. high, bears N. about 10.00 chs. and south.

40.31 Proportionate point for ¼ sec. cor.

Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked

S 1 6
———
S 7
1914

Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.

50.00 Leave rolling land; enter alkali flats and greasewood bearing N. and S., 100 ft. below ridge.

71.95 Road, Cedar Springs to Monument, bears N.70° W. and S. 70° E.

80.34 The cor. of secs. 6 and 7 on W. bdy. of Tp., heretofore described.

Land, rolling and nearly level.

Soil on ridge light sandy loam, with some gravel; underlaid with gravel; on flat, except the alkali flat which is clay, soil, good sandy loam; medium texture, dry, on clay subsoil.

No timber. Undergrowth, sagebrush and greasewood.

Dependent Resurvey of Subdivision of T.11 N.R.7 W.

Chains.	
	October 31, 1914. John W. Doregall U.S.Surveyor.
	October 31, 1914: From the cor.of secs.5,6,7, and 8, I run N.0° 24'W.on a true line bet.secs.5 and 6, Over nearly level land; through scattering sagebrush and greasewood.
40.78	Proportionate point for $\frac{1}{4}$ sec.cor. Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for $\frac{1}{4}$ sec.cor., with brass cap marked $\frac{1}{4}$ S 6 | S 5 1914 Dig pits 18 x 18 x 12 ins.N.and S.of post 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high W. of cor.
70.00	Leave scattering sagebrush and greasewood; enter greasewood bearing E.and W.
81.50	The cor.of secs.5,6,31 and 32 on N.bdy.of Tp.,heretofore described. Land, level. Soil, light,clay loam, with some alkali fine texture, dry, underlaid with clay and some sand. No timber. Undergrowth, sagebrush and greasewood. October 31, 1914. Thos. C. Hartboure U.S.Transitman.

General Description T.11 N.R.7 W.

This township contains a variety of land, from gently rolling benches and bottoms, to mountains; and the soil ranges from alkali to rich loam. The soil around the base of the mountains is generally rich, clay loam, capable of, and is being dry-farmed, and produces fair to good crops, of wheat, rye, barley, and corn. The soil of the remaining portion of the township, except the alkali flat, which is in sec. 6, and the mountains, can be classed as second rate.

The mountains in the eastern portion of this township are covered with scattering cedar timber and have an abundant growth of nutritious grass. The east slopes of the mountains, in the western part of the township, are also covered with scrubby cedar timber and grass. A low ridge joins the eastern and western mountains, forming a north slope, favorable for dry farming. There is a good growth of sagebrush on most of the township.

There are numerous small outcroppings of limestone on the mountains. No surface indications of mineral.

The only running water in this township is a small spring near the center of sec. 34, known as Cedar Spring.

There are two wells in sec. 22, owned by Wm. Horsley indicating a flow of surface water or artesian water, at depths varying from 100 to 300 ft.

Wm. Horsley is dry farming in secs. 14 and 22.

Chas. Reeves is dry farming in sec. 10.

Walter L. Grover is dry farming in sec. 26.

J.G. Toombs is dry farming in sec. 28.

E.A. Valentine is dry farming in sec. 20.

The principal crops raised are wheat and rye, yielding from 10 to 30 bushels per acre.

John W. Dougall U.S. Surveyor.

Thos. C. Hackstaff U.S. Transitman.

BOOK A-410

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, John W. Dougall & Thomas G. Rathbone U. S. Surveyor, during the periods and in the capacities U. S. Transitman, ated opposite our several signatures, in retracing and re-surveying all those parts or portions of the south, west, east, and north boundaries and dependent resurvey of subdivision of Township 11 North, Range 7 West; retracement and resurvey of part of east boundary of Township 12 North, Range 7 West; remacement and resurvey the south; restoration of east boundary; dependent resurvey of part the subdivision of Township 12 North Range 8 West; and metes and unds survey of claim in sec. 36, T. 13 N. R. 8 W.

the Salt Lake Base and Meridian, in the State of Utah hich are represented in the foregoing field notes as having been executed by him, and under his direc-on; and that said survey has been, in all respects, to the best of our knowledge and belief, well and ithfully executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	
Barnum B. Packard	Oct. 20, 1914	Nov. 30. 1914	Chainman
Elliot B. Bird	Oct. 20, 1914	Nov. 30. 1914	Chainman.
Henry Johansen	Oct. 20, 1914	Oct, 31, 1914	Chainman.
Joseph Smith	Oct. 20. 1914	Nov. 30 1914	Chainamn.
Alanson Allen	Oct. 20, 1914.	Nov. 30., 914	Axman.
Louis Bingham	Oct. 20, 1914	Nov. 30, 1914	Flagman.
Myron M. Michael	Oct. 20, 1914	Nov. 30, 1914	Falgman.
Ross B. Kimball	Nov. 1, 1914	Nov. 30. 1914.	Chainman.

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

John W. Dougall
U. S. Surveyor.

6—2761

FINAL OATH OF UNITED STATES SURVEYOR.

I, John W. Dougall, U. S. Surveyor, do solemnly swear that, in pursuan of special instructions received from the U. S. Surveyor General for Utah, bearing date of the April 23 day of 1914, Oct. 7 and Nov. 10 1914, respectively, 191 4, I have well, faithfully, and trul in my own proper person, and in strict conformity with said instructions, the Manual of Surveyi Instructions, and the laws of the United States, surveyed all those parts or portions of: Retraced, and Resurveyed and Restored the North, East, West & Sout boundaries and the dependent resurvey of the subdivision of Townshi 11 North, Range 7 West; and retracement and resurvey of part of the east boundary of Township 12 North, Range 7 West of the Salt Lake Base and Meridian, in the State of Utah., which are represented 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. Survey General for Utah. and in the specific manner described in the field notes, and th the foregoing are the original field notes of such survey.

John W. Dougall
U. S. Surveyor.

Subscribed by said John W. Dougall, and sworn to before me this 18 day of April, 191 6

M. O. Thoresen
U. S. Surveyor-General
for Utah.

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 surveys 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.

4—680

BOOK A-410

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, John W. Dougall and Thomas C. Rathbone, U. S. Transitman, U. S. Surveyor, during the periods and in the capacities stated opposite our several signatures, in retracing and re-surveying all those parts or portions of the Third Standard Parallel North, through Range 8 West; south and west boundaries; restoration of position ~~of the~~ position of the Gorlinski east boundary; and dependent resurvey of part of the subdivision of T.12 N.R.8 W.; and retracement of part of the west boundary of T.13 North, Range 7 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~~ them, and under ~~his~~ their direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	Beats.	Ended.	
Barnum O. B. Packard	May 16, 1914	June 6, 1914	Chainman.
Carl Ray	May 16, 1914	June 6, 1914	Chainman.
Fodor E. Brown	May 16, 1914	June 6, 1914	Chainman.
Fred Coffman	May 16, 1914	June 6, 1914	Chainman.
Myron M. Michael	May 16, 1914	June 6, 1914	Flagman.
J. Knowlton Pierce	May 16, 1914	June 6, 1914	Flagman.

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

John W. Dougall
U. S. Surveyor.

6—[illegible]

FINAL OATH OF UNITED STATES ~~SURVEYOR~~ TRANSITMAN.

I, Thomas C. Rathbone, U. S. ~~Surveyor~~ Transitman, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Utah, dated April 23, 1914, Oct. 7, 1914 and Nov. 10, 1914, respectively bearing date of the ~~April 23~~ day of ~~1914~~ Oct. 7, 1914, 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 retracement and resurvey of the south, west, east, and north boundaries; and dependent resurvey of subdivision of Township 11 North, Range 7 West; and retracement and resurvey of part of the east boundary of Township 12 North, Range 7 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 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 Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Thos. C. Rathbone
~~U.S. Surveyor.~~
U.S. Transitman

Subscribed by said Thomas C. Rathbone, and sworn to before me this 15 day of April, 1916

SEAL

M. C. Thorsen
U.S. Surveyor-General
for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 16, 1916.

The foregoing field notes of the ~~survey of~~ retracement and resurvey of the south, west, east, and north boundaries; and dependent resurvey of the subdivisional lines of Township No. 11 North, Range No. 7 West; and retracement and resurvey of part of the east boundary of Township No. 12 North, Range No. 7 West of the Salt Lake Base and Meridian, Utah,

executed by John T. Dougall and Thomas C. Rathbone under ~~the~~ special instructions dated April 23, 1914, Oct. 7, 1914 and Nov. 10, 1914, respectively, 191 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

M. C. Thorsen
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.

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4—679

BOOK A-410

E.

FIELD NOTES

OF THE SURVEY OF THE

RETRACEMENT AND RESURVEY OF THE

NORTH AND SOUTH BOUNDARIES

AND

SUBDIVISIONAL AND MEANDER LINES

OF

TOWNSHIP 11 NORTH, RANGE 8 WEST

Of the Salt Lake Base and *Meridian,*

the State of Utah

EXECUTED BY

John [illegible] Dougall and Thomas C. Rathbone

and U. S. Transitman

the capacity of U. S. Surveyor, under instructions dated April 23, *1914,*
nd supplemental special instructions dated October 7, 1914, and
ovember 10, 1914, respectively.
sued by the United States Surveyor General to govern surveys included in

roup No. 32, *which were approved by the Commissioner of the General Land*
October 17, 1914, and November 17, 1914, respectively
ffice, May 13, 1914, /—, *191—, pursuant to authority contained in the Act of*

ongress dated ....., *191*

Survey commenced November 2, *1914*

Survey completed November 9, *1914*

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BOOK A-110

INDEX DIAGRAM.

Township 11 North, *Range* 8 West

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

RETRACEMENT AND RESURVEY OF SOUTH BDY. OF T. 11 N., R. 8 W.

Chains

Survey commenced November 2, 1914, and executed with a Young & Sons light mountain transit, No. 8515, fitted with Smith solar attachment, and a Keuffel & Esser light mountain transit, No. 20575, fitted with a Smith solar attachment.

For description of instruments see book "A" these notes.

Knowing from recent Polaris observations that the instruments are in adjustment,

At 9 a.m., l.m.t., I set off 41°38' on the lat. arc; 14°36'S. on the decl. arc; and determine a meridian with the solar at the cor. accepted as having been set by U. S. Deputy Surveyor Jos. Gorlinski for secs. 35 and 36, on the S. bdy. of T. 11 N., R. 8 W., which is a limestone 8 x 12 x 14 ins. above ground, loosely set, and plainly marked 5 notches on W. and 1 notch on E. edges; no accessories.

I retrace
East?
West, on S. bdy. of sec. 35.

1.73 Intersect W. bdy. of T. 11 N., R. 7 W., 5.86 chs. N.1° 37'W. of the cor. of Ts. 10 and 11 N., R. 7 W.

39.92 Fall 11 lks. S. of the ¼ sec. cor., which is a limestone 7 x 9 x 12 ins. above ground, firmly set and plainly marked ¼ on N. face; no accessories.

I make this cor. permanent as follows:

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor. of secs. 2 and 35, alongside of old cor., with brass cap marked

S 35
¼
S 2
1914

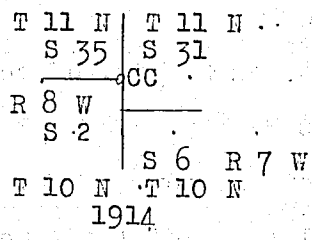
and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

The course of this half mile is therefore N.89°50'W., and the distance 39.92 chs.

Thence

RETRACEMENT AND RESURVEY OF SOUTH BDY. OF T. 11 N., R. 8 W.

Chains	
	S.89°50'E., on a resurvey line on the S. bdy. of sec.35.
	Ascending gently over rolling land.
6.65	Dim wood road bears N.45°W. and S.45°E.
8.90	Foot of low bench bears N.20°W. and S.20°E., 10 ft.high.
11.60	Old railroad grade bears N.21°W. and S.21°E.
19.80	Southern Pacific Ry. bears N.21°W. and S.21°E.
22.10	W. U. Telegraph line bears N.21°W. and S.21°E.
30.00	Wood road bears N. and S.
32.10	Foot of bench bears N.10°W. and S.10°E.; enter sagebrush bearing N. and S. Ascend.
33.00	Top of bench, 35 ft. high, bears N.10°W. and S.10°E.
38.19	Intersect W. bdy. of T. 11 N., R. 7 W., 5.85 chs. N.1° 37'W. of the cor. of Ts. 10 and 11 N., R. 7 W.
	Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for closing cor. of secs. 2 and 35, with brass cap marked



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

Land, rolling; west slope.

Soil, light clay loam with some gravel and stones.

No timber.

Undergrowth, sagebrush.

From the ¼ cor. on the S. bdy. of sec. 35

I retrace

West, on S. bdy. of sec. 35.

40.00 After careful search, find no trace of cor. of secs. 34 and 35.

Continue

West, on S. bdy. of sec 34, and at

80.20 Fall 9 lks. S. of the ¼ sec. cor., which is a limestone 8 x 8 x 9 ins. above ground, firmly set, and plainly

RETRACEMENT AND RESURVEY OF SOUTH BDY. OF T. 11 N., R. 8 W.

Chains

marked ¼ on N. face; no accessories.

I make this cor. permanent as follows:

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor. of secs. 3 and 34, with brass cap marked

S 34
¼
S 3
1914

and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Post is set beside old stone.

The course of this line is therefore N.89°56'W. and the distance 80.20 chs.

Thence

S.89°56'E., on a resurvey line on the S. bdy. of sec.34.

Over gently rolling land.

17.50 Dim wood road bears N.45°E. and S.45°W.

40.10 The proportionate point for cor. of secs. 34 and 35.

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

T 11 N S 34	R 8 W S 35
S 3 T 10 N	S 2 R 8 W

1914

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

Land, gently rolling.

Soil, light clay, fine texture, dry, underlaid with clay and gravel.

No timber.

From the re-established cor. of secs. 2, 3, 34 and 35, I run

S.89°56'E., on a resurvey line on the S. bdy. of sec. 35.

Ascending gently over rolling land.

Chains	
8.50	Foot of bench bears N. and S.
	Ascend.
9.50	Top of bench, 12 ft. above foot, bears N. and S.; thence over level land.
40.10	The ¼ sec. cor. on the S. bdy. of sec. 35.
	Land, gently rolling.
	Soil, light, poor sandy loam with some gravel, medium texture, dry, underlaid with gravel and limestone.
	No timber.
	November 2, 1914: At 11h 44m a.m., l.m.t., I set off 14°39'S. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 41°38'.
	From the ¼ cor. on the S. bdy. of sec. 34
	I retrace
	West, on the S. bdy. of sec. 34.
25.00	Low ridge, 25 ft. high, bears S. 5.00 chs. and N. 10.00 chs.
40.08	Fall 22 lks. S. of the cor. of secs. 3, 4, 33 and 34, which is a limestone 2 x 9 x 16 ins. above ground, firmly set, and plainly marked 3 notches on E. and W. edges; no accessories.
	I make this cor. permanent as follows:
	Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 3, 4, 33 and 34, alongside the old cor. with brass cap marked

T 11 N S 33	R 8 W S 34
S 4 T 10 N	S 3 R 8 W

1914

Chains	
	and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	The course of this line is therefore N.89°41'W. and the distance 40.08 chs.
	Land, gently rolling.
	Soil, light sandy loam, 4 to 8 ins. deep, coarse tex-

Chains

ture, dry, underlaid with clay and gravel.

No timber.

From the cor. of secs. 3, 4, 33 and 34,

I retrace

West, on the S. bdy. of sec. 33.

16.55 After careful search find no trace of the cor. reported at end of resurvey by Deputy Koeber, nor of the meander cor. reported as having been set by U. S. Deputy Surveyor Joseph Gorlinski.

18.00 After careful search find no trace of the meander cor. of fractional secs. 4 and 33, reported as having been set by U. S. Deputy Surveyor Edward W. Koeber.

18.90 Shore of Great Salt Lake bears N. and S.

Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in a mound of stone, for meander cor. of fractional secs. 4 and 33, with brass cap marked

T 11 N
S 33
MC R 8 W
S 4
T 10 N
1914

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

The shore line is well defined by an outcropping of iron stained stones.

Land, gently rolling.

Soil, light, poor sandy loam, 5 to 8 ins. deep, coarse texture, dry, with some stones, underlaid with clay and gravel.

No timber.

U. S. Transitman.

November 2, 1914.

RETRACEMENT AND RESURVEY OF

PART OF NORTH BDY. OF FRACL. T. 11 N., R. 8 W.

Chains

November 9, 1914: For observation for lat. see N. bdy. T. 11 N., R. 7 W.

November 9, 1914: At 2 p.m., l.m.t., I set off 41°44' on the lat. arc; 16°47'S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 2, 3, 34 and 35, on the N. bdy. of the Tp., which is a limestone 5 x 10 x 16 ins., loosely set in a stone mound; stone corroded and marks not visible.

Note: This cor. is in an open mud flat and there are no other stones in a radius of 5.00 chs.; therefore I accept this as the proper cor.

I make this cor. permanent as follows:

Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, alongside of old cor., for cor. of secs. 2, 3, 34 and 35, with brass cap marked

T 12 N S 34	R 8 W S 35
S 3 T 11 N	S 2 R 8 W

1914

Dig pits 18 x 18 x 12 ins. in each sec., 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Thence I retrace

East, on the N. bdy. of sec. 2.

40.00 After careful search find no trace of ¼ sec. cor.

67.96 Intersect the W. bdy. of T. 11 N., R. 7 W., 3.16 chs. S.1°37'E. of the cor. of Ts. 11 and 12 N., R. 7 W., heretofore described.

80.00 After careful search find no trace of the cor. of secs. 1, 2, 35 and 36, reported to have been set by George V. M. Boutelle, U. S. Deputy Surveyor.

I continue east, and at

120.12 Fall 99 lks. N. of the ¼ sec. cor. on the N. bdy. of sec. 1, as surveyed by Deputy Boutelle and heretofore described.

The course of this line is therefore S.89°32'E. and

Chains

the distance 120.12 chs.

Note: I return N.89°32'W., and at

40.04 Set temp. point for cor. of secs. 1, 2, 35 and 36, according to Deputy Boutelle's survey.

From this temp. point I run

N.89°32'W., on a blank line.

12.12 Intersect the W. bdy. of T. 11 N., R. 7 W., 3.72 chs. S.1°37'E. of the cor. of Ts. 11 and 12 N., R. 7 W.

Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for closing cor. of Ts. 11 and 12 N., R. 8 W., with brass cap marked

T 12 N
S 31
S 35 C S 6
R 8 W C R 7 W
S 2
T 11 N
1914

Dig pits 24 x 18 x 12 ins., crosswise on each line, N. and S., 3 ft., and W. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2½ ft. high, W. of cor.

From this closing cor. I run

N.89°32'W., on a resurvey line bet. secs. 2 and 35.

Over alkali or mud flat.

19.70 Salt Creek 25 lks. wide, 1 ft. deep, very slow current flows S.25°W.

27.92 Proportionate point for ¼ sec. cor.

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ cor. bet. secs. 2 and 35, with brass cap marked

S 35
¼
S 2
1914

Dig pits 18 x 18 x 12 ins. E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.

67.96 The cor. of secs. 2, 3, 34 and 35.

RETRACEMENT AND RESURVEY OF

PART OF NORTH BDY. OF FRACL. T. 11 N., R. 8 W.

Chains	
	Land, level bottoms.
	Soil, heavy clay with alkali, wet.
	No timber.
	November 9, 1914.

RETRACEMENT AND RESURVEY OF

PART OF SUBDIVISION OF FRACL. T. 11 N., R. 8 W.

Chains	
	November 2, 1914: From the re-established cor. of secs. 2, 3, 34 and 35, I retrace
	North, bet. secs. 34 and 35.
	Over gently rolling land.
30.70	Dim wood road bears N.30°E. and S.30°W.
40.56	Fall 26 lks. E. of the ¼ sec. cor., which is a limestone 8 x 12 x 12 ins. above ground, firmly set, and plainly marked ¼ on W. face; no accessories.
	I make this cor. permanent as follows:
	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, alongside the old cor., for ¼ sec. cor. with brass cap marked
	¼ S 34 | S 35 1914
	Dig pits 18 x 18 x 12 ins. N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
	The course of this line is therefore N.0°22'W. and the distance 40.56 chs.
	Moved to ¼ cor.
	Thence I retrace
	North, bet. secs. 34 and 35.
40.20	Fall 26 lks. E. of the cor. of secs. 26, 27, 34 and 35, which is a limestone 5 x 6 x 8 ins. above ground, firmly set, and plainly marked 1 notch on S. and 2 notches on E. edges; no accessories.
	I make this cor. permanent as follows:

Chains

Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, alongside the old cor., for cor. of secs. 26, 27, 34 and 35, with brass cap marked

T 11 N	R 8 W
S 27	S 26
S 34	S 35

1914

Dig pits 18 x 18 x 12 ins., in each sec., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

The course of this line is therefore N.0°22'W. and the distance 40.20 chs.

Land, rolling.

Soil, light sandy loam, medium texture, dry, on clay and gravel subsoil.

No timber.

November 2, 1914.

November 3, 1914: At 9 a.m., l.m.t., I set off 41°39' on the lat. arc; 14°55'S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 26, 27, 34 and 35.

Thence I retrace

N.89°39'E., bet. secs. 26 and 35.

40.15 Fall 7 lks. S. of the ¼ sec. cor., which is a limestone 8 x 10 x 10 ins. above ground, firmly set, and plainly marked ¼ on N. face; small mound of stone N.

The course of this line is therefore N.89°33'E. and the distance 40.15 chs.

Moved to ¼ sec. cor.

Thence I retrace

N.89°39'E., bet. secs. 26 and 35.

36.34 Intersect W. bdy. of T. 11 N., R. 7 W., 5.31 chs. N.1° 37'W. of the cor. of secs. 30 and 31, heretofore described.

RETRACEMENT AND RESURVEY OF

PART OF SUBDIVISION OF FRACL. T. 11 N., R. 8 W.

Chains	
36.78	Fall 6 lks. S. of the cor. of secs. 26 and 35 on the E. bdy. of the Tp., as set by Deputy Koeber, heretofore described.
	The course of this line is therefore N.89°33'E. and the distance 36.78 chs.
	Thence
	S.89°33'W., on a blank line.
.44	Intersect W. bdy. of T. 11 N., R. 7 W., 5.37 chs. N.1° 37'W. of the cor. of secs. 30 and 31.
	Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for closing cor. of secs. 26 and 35, with brass cap marked

T 11 N
S 26 | S 30
C
C
S 35 | S 31
R 8 W | R 7 W
1914

	and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	From this closing cor. I run
	S.89°33'W., on a resurvey line bet. secs. 26 and 35.
	Descend through sagebrush.
10.90	Wood road bears N. and S.; also leave sagebrush, bearing N. and S.
19.15	W. U. Telegraph line bears N.6°30'W. and S.6°30'E.
20.30	Southern Pacific Ry. bears N.7°50'W. and S.7°50'E.
28.00	Old R. R. grade bears N.10°W. and S.10°E.
36.34	The ¼ sec. cor., which I make permanent as follows:
	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, alongside the old cor., for ¼ sec. cor. bet. secs. 26 and 35, with brass cap marked

S 26
¼
S 35
1914

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

RETRACEMENT AND RESURVEY OF

PART OF SUBDIVISION OF FRACL. T. 11 N., R. 8 W.

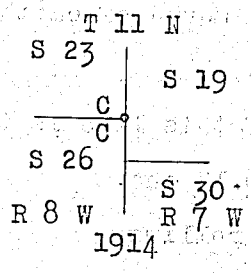
Chains	
	N. of cor.
43.15	Wood road bears N. and S.25°E.
53.00	Foot of bench, 15 ft. high, bears N. and S.
53.20	Wood road bears N. and S.
76.49	The cor. of secs. 26, 27, 34 and 35.
	Land, rolling W. slope.
	Soil, sandy loam, 3 to 10 ins. deep, coarse texture, dry, underlaid with gravel and limestone.
	No timber.
	Undergrowth, sagebrush.
	From the cor. of secs. 26, 27, 33 and 34, I retrace West, bet. secs. 27 and 34.
	Over nearly level land draining W.
40.34	Fall 45 lks. N. of the ¼ sec. cor., which is a post 3 x 3 x 18 ins., loosely set, and plainly marked ¼ S on N. face; slight traces of pits.
	I make this cor. permanent as follows:
	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, alongside the old cor., for ¼ sec. cor., bet. secs. 27 and 34, with brass cap marked
	S 27 / ¼ / S 34 / 1914
	Dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
	The course of this line is therefore S.89°22'W. and the distance 40.34 chs.
	Moved to ¼ sec. cor.
	Thence I retrace West, bet. secs. 27 and 34.
24.20	Fall 26 lks. N. of the old meander cor. of secs. 27 and 34, which is a limestone 8 x 10 x 10 ins. above

Chains	
	ground, firmly set, and plainly marked M on N. face; no accessories.
	I make this cor. permanent as follows:
	Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, alongside the old cor., for meander cor. of fracl. secs. 27 and 34, with brass cap marked
	T 11 N R 8 W MC S 27 S 34 1914
	Dig a pit 36 x 36 x 12 ins. E. of cor. 5 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, E. of cor.
	The true course of this line is therefore S.89°23'W. and the distance 24.20 chs.
	The shore of Great Salt Lake is well defined by a sand bar 5 to 10 ft. high, bearing N. and S.
	Land, nearly level.
	Soil, light sandy loam, medium texture, dry, on clay and gravel subsoil.
	No timber.
	From the cor. of secs. 26, 27, 34 and 35, I retrace
	North, bet. secs. 26 and 27.
	Over gently rolling land draining W.
20.00	Enter scattering greasewood, bearing NE. and SW.
29.00	Leave greasewood, bearing E. and W.
40.23	Fall 29 lks. E. of the ¼ sec. cor., which is a limestone 8 x 8 x 8 ins. above ground, firmly set, and plainly marked ¼ on W. face; no accessories.
	I make this cor. permanent as follows:
	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, alongside the old cor., for ¼ sec. cor.,

RETRACEMENT AND RESURVEY OF

PART OF SUBDIVISION OF FRACL. T. 11 N., R. 8 W.

Chains	
	with brass cap marked
	¼ S 27 | S 26
	1914
	Dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
	The course of this line is therefore N.0°25'W. and the distance 40.23 chs.
	November 3, 1914: At this cor. I set off 14°58'S. on the decl. arc; and at 11h 44m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 41°40'.
	Moved to ¼ sec. cor.
	Thence I retrace
	North, bet. secs. 26 and 27.
40.15	Fall 15 lks. E. of the cor. of secs. 22, 23, 26 and 27, which is a limestone 8 x 8 x 6 ins. above ground, firmly set, very dimly marked 2 notches on S. and E. edges; slight traces of pits.
	I make this cor. permanent as follows:
	Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, alongside the old cor., for cor. of secs. 22, 23, 26 and 27, with brass cap marked
	T 11 N | R 8 W S 22 | S 23 S 27 | S 26
	1914
	Dig pits 18 x 18 x 12 ins., in each sec., 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	The course of this line is therefore N.0°13'W. and the distance 40.15 chs.
	Land, gently rolling.
	Soil, on S. 25.00 chs. light, poor sandy loam, 3 to 10 ins. deep, medium texture, dry, on gravel subsoil, with some alkali; N.65.38 chs. heavy clay soil, fine texture, dry, on clay subsoil, with some alkali.

Chains	
	No timber. Undergrowth, greasewood. November 3, 1914.
	November 5, 1914: At 9 a.m., l.m.t., I set off 15°32'S. on the decl. arc; 41°40' on the lat. arc; and determine a meridian with the solar at the cor. of secs. 22, 23, 26 and 27. Thence I retrace S.89°55'E., bet. secs. 23 and 26.
39.90	Reported distance. After careful search find no trace of ¼ cor.
74.35	Intersect W. bdy. of T. 11 N., R. 7 W., 3.12 chs. N.1° 37'W. of the cor. of secs. 19 and 30, heretofore described.
74.46	Fall 4.07 chs. S. of the cor. of secs. 23 and 26, heretofore described. The course of this line is N.86°57'E. and the distance 74.57 chs. Thence I run S.86°57'W., on a blank line.
.11	Intersect W. bdy. of T. 11 N., R. 7 W., 7.19 chs. N.1° 37'W. of the cor. of secs. 19 and 30. Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for closing cor. of secs. 23 and 26, with brass cap marked  and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. From this closing cor. I run S.86°57'W., on a resurvey line bet. secs. 23 and 26.

Chains	
	Descend through sagebrush, over foothills.
9.30	W. U. Telegraph line bears N.1°W. and S.1°E.
10.20	Southern Pacific Ry. bears N.1°W. and S.1°E.
13.70	Old railway grade bears N. and S.
14.70	Leave foothills, enter flat, also leave sagebrush bearing N. and S. 100 ft. below sec. cor.
17.90	Wood road bears N. and S.
24.00	Enter greasewood, bearing N. and S.
35.32	The proportionate point for ¼ sec. cor.
	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked S 23 / ¼ / S 26 / 1914
	Dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
45.00	Leave greasewood, bearing N. and S.
74.46	The cor. of secs. 22, 23, 26 and 27.
	East 14.70 chs., rolling foothills; soil, light, poor sandy loam with some gravel and stones, underlaid with limestone.
	West 59.76 chs., nearly level bottom land; soil, heavy clay, fine texture, dry, with some alkali, on clay subsoil.
	No timber.
	Undergrowth, sagebrush and greasewood.
	From the cor. of secs. 22, 23, 26 and 27, I retrace West, bet. secs. 22 and 27.
	Over nearly level bottom land.
3.30	Enter alkali flat, bearing N. and S.
18.20	Leave same, bearing N. and S.

Chains

40.28 Fall 20 lks. N. of the ¼ sec. cor., which is a lava rock 6 x 8 x 6 ins. above ground, firmly set, plainly marked ¼ on N. face; slight traces of pits.

I make this cor. permanent as follows:

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, alongside the old cor., for ¼ sec. cor., with brass cap marked

S 22
¼
S 27
1914

Dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.

The course of this line is therefore S.89°43'W. and the distance 40.28 chs.

Moved to ¼ sec. cor.

Thence I retrace

West, bet. secs. 22 and 27.

10.22 Reported distance for meander cor. of fracl. secs. 22 and 27. After careful search find no trace of cor.

15.22 Shore of Great Salt Lake sandy beach indistinctly marked.

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for meander cor. of fracl. secs. 22 and 27, with brass cap marked

T 11 N R 8 W
MC
S 22
S 27
1914

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

Land, nearly level bottoms.

Soil, heavy, damp clay with alkali, underlaid with clay.

No timber.

November 5, 1914: At this cor. I set off 15°36'S. on the decl. arc; and at 11h 44m a.m., l.m.t., observe

Chains	
	the sun on the meridian; the resulting lat. is 41°40'. November 5, 1914.
	November 3, 1914:
	From the cor. of secs. 22, 23, 26 and 27,
	I retrace
	North, bet. secs. 22 and 23.
	Over nearly level bottoms.
24.80	Enter alkali flat bearing E. and W. near E. end of same.
31.00	Leave same, bearing E. and W.
40.15	Fall 54 lks. E. of the ¼ sec. cor., which is a limestone 10 x 6 x 10 ins. above ground, firmly set, plainly marked ¼ on W. face; traces of pits plain.
	I make this cor. permanent as follows:
	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, alongside the old cor., for ¼ sec. cor., with brass cap marked
	¼ S 22 S 23
	1914
	Dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
	The course of this line is therefore 0°46'W. and the distance 40.15 chs.
	Moved to ¼ sec. cor.
	Thence I retrace
	North, bet. secs. 22 and 23.
40.00	After careful search, find no trace of the cor. of secs. 14, 15, 22 and 23.
	Set temp. point.
	I continue
	North, retracing the line bet. secs. 14 and 15.
	Unable after careful search to find any trace of ¼ sec. cor.
	Set temp. cors. at intervals of 40.00 chs.

RETRACEMENT AND RESURVEY OF

SUBDIVISION OF FRACL. T. 11 N., R. 8 W.

Chains

120.75 Counting the distance from the ¼ sec. cor. bet. secs. 22 and 23.

Fall 72 lks. E. of the cor. of secs. 10, 11, 14 and 15, which is a wooden post 3 x 3 x 16 ins. above ground, loosely set, plainly marked 4 notches on S. and 1 notch on E. edges; no accessories.

Note: I return and adjust all temp. cors. on this line to their proportionate meridional positions.

From the cor. of secs. 14 and 23, heretofore described, as set by Deputy Hoeber, on the W. bdy. of T. 11 N., R. 7 W., I retrace

N.89°45'W., bet. secs. 14 and 23.

.97 Intersect the W. bdy. of T. 11 N., R. 7 W., 5.76 chs. N.1°37'W. of the cor. of secs. 18 and 19, heretofore described.

33.92 Fall 4.63 chs. N. of the ¼ sec. cor. bet. secs. 14 and 23, which is a limestone 10 x 6 x 10 ins. above ground, loosely set, plainly marked ¼ on N. face; no accessories. This is the Boutelle cor.

I continue

N.89°45'W., retracing the line bet. secs. 14 and 23.

73.56 Fall 4.32 chs. N. of the adjusted temp. cor. of secs. 14, 15, 22 and 23.

I continue

West, retracing the line bet. secs. 15 and 22.

40.39 Fall 4.77 chs. N. of the ¼ sec. cor., which is a limestone 3 x 8 x 10 ins. above ground, firmly set, dimly marked; no accessories.

The true point is therefore 47 lks. W. of the temp.

From the ¼ sec. cor. bet. secs. 22 and 23, previously described, I run

N.1°01'W., on a true line bet. secs. 22 and 23.

Over nearly level bottoms.

4.40 Enter alkali flat, bearing E. and W.

RETRACEMENT AND RESURVEY OF

SUBDIVISION OF FRACL. T. 11 N., R. 8 W.

Chains	
9.60	Leave same, bearing E. and W.
19.90	Enter alkali flat, bearing E. and W.
40.26	The proportionate point for cor. of secs. 14, 15, 22 and 23.

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

T 11 N	R 8 W
S 15	S 14
S 22	S 23

1914

Dig pits 18 x 18 x 12 ins., in each sec., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, clay bottoms and alkali flats near the shore of Great Salt Lake.

No timber.

From the cor. of secs. 14 and 23 as set by Deputy Koeber on the W. bdy. of T. 11 N., R. 7 W., heretofore described, I run

S.82°29'W., on a blank line.

.97 Intersect W. bdy. of T. 11 N., R. 7 W., 5.63 chs. N.1° 37'W. of the cor. of secs. 18 and 19.

Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for closing cor. of secs. 14 and 23, with brass cap marked

T 11 N
S 14 | S 18
CC
S 23 | S 19
R 8 W | R 7 W

1914

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

From this closing cor. I run

S.82°29'W., on a true line bet. secs. 14 and 23.

Chains	
	Descending through sagebrush.
3.00	Wash, 10 ft. deep, drains W.
5.90	W. U. Telegraph line bears N.18°W. and S.18°E.
6.00	Foot of descent, leave sagebrush 75 ft. below cor., bearing N. and S.
6.75	Southern Pacific Ry. bears N.18°W. and S.18°E.
7.75	Road, Cedar Springs to Lake, bears N.30°W. and S.30°E.
12.67	Old railway grade bears N.40°W. and S.40°E.
14.65	Wood road bears N. and S.
33.23	The ¼ sec. cor. heretofore described.
	I make this cor. permanent as follows:
	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, alongside the old cor., with brass cap marked
	S 14 / ¼ / S 23 / 1914
	Dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
	Thence
	N.89°18'W., on a true line bet. secs. 14 and 23.
33.50	Enter alkali flat, bearing N. and S.
73.34	The cor. of secs. 14, 15, 22 and 23.
	East 6.00 chs., foothills; soil, light, poor sandy loam and gravel on gravel and limestone subsoil.
	West 67.34 chs., nearly level bottoms and alkali flat.
	No timber.
	Undergrowth, sagebrush.
	November 3, 1914.

November 4, 1914: At 9 a.m., l.m.t., I set off 41°41' on the lat. arc; 15°13'S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 14, 15, 22 and 23.

RETRACEMENT AND RESURVEY OF

SUBDIVISION OF FRACL. T. 11 N., R. 8 W.

Chains	
	Thence
	S.89°21'W., on a true line bet. secs. 15 and 22.
	Over alkali flat.
3.00	Slough drains S. 10 chs., then SW.
9.80	Slough drains S.
39.92	The $\frac{1}{4}$ sec. cor. heretofore described.
	I make this cor. permanent as follows:
	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, alongside the old cor., with brass cap marked
	S 15 / $\frac{1}{4}$ / S 22
	1914
	Dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Thence
	West, on a retracement line bet. secs. 15 and 22.
26.00	Reported distance for meander cor. of fracl. secs. 15 and 22. After careful search find no trace of cor.
40.00	After careful search find no trace of cor. of secs. 15, 16, 21 and 22.
	Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 15, 16, 21 and 22, with brass cap marked
	T 11 N | R 8 W S 16 | S 15 S 21 | S 22
	1914
	Dig pits 18 x 18 x 12 ins., in each sec., $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	The shore of Great Salt Lake is a clay beach; water line is indistinct.
	Land, level alkali flat, subject to inundation.

RETRACEMENT AND RESURVEY OF

SUBDIVISION OF FRACL. T. 11 N., R. 8 W.

Chains	
	Soil, heavy wet clay.
	No timber.
	From the cor. of secs. 14, 15, 22 and 23, I run N.0°01'W., on a true line bet. secs. 14 and 15.
	Over level alkali flat.
9.70	Slough drains S.20°W.
40.25	The proportionate point for ¼ sec. cor.
	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ S 15 | S 14
	1914
	Dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
80.50	The cor. of secs. 10, 11, 14 and 15, heretofore described.
	Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, alongside the old cor., for cor. of secs. 10, 11, 14 and 15, with brass cap marked
	T 11 N | R 8 W S 10 | S 11 S 15 | S 14
	1914
	Dig pits 18 x 18 x 12 ins., in each sec., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, level alkali flat lake bottom.
	Soil, heavy wet clay.
	No timber.
	November 4, 1914: At this cor. I set off 15°17'S. on the decl. arc; and at 11h 44m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 41°42'.

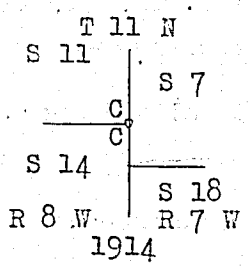
Thos. C. Bartholomew

U. S. Transitman.
November 4, 1914.

RETRACEMENT AND RESURVEY OF

SUBDIVISION OF FRACL. T. 11 N., R. 8 W.

Chains	
	November 7, 1914: At 10 a.m., l.m.t., I set off 41°42' on the lat. arc; 16°09'S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 10, 11, 14 and 15.
	Thence I retrace
	S.89°45'E., bet. secs. 11 and 14.
39.52	Fall 1.04 chs. S. of the ¼ sec. cor., which is a limestone 4 x 8 x 12 ins. above ground, loosely set, and plainly marked ¼ on N. face; no accessories.
	The course of this line is therefore N.88°44'E. and the distance 39.53 chs.
	Moved to ¼ cor.
	Thence I retrace
	Note: A flag on the cor. of secs. 11, 12, 13 and 14 as set by Deputy Boutelle, bears S.86°52'E.
	S.86°52'E., bet. secs. 11 and 14.
31.30	Intersect W. bdy. of T. 11 N., R. 7 W., 51 lks. S.1° 37'E. of the cor. of secs. 7 and 18, heretofore described.
41.73	The cor. of secs. 11, 12, 13 and 14, heretofore described.
	Thence I run
	N.86°52'W., on a blank line
10.43	Intersect W. bdy. of T. 11 N., R. 7 W., 51 lks. S.1° 37'E. of the cor. of secs. 7 and 18.
	Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for closing cor. of secs. 11 and 14, with brass cap marked



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

RETRACEMENT AND RESURVEY OF

SUBDIVISION OF FRACL. T. 11 N., R. 8 W.

Chains	
	From this closing cor. I run
	N.86°52'W., on a resurvey line bet. secs. 11 and 14.
	Over nearly level land, through scattering greasewood.
10.00	Dim wood road bears N. and S.
25.00	Road, Cedar Springs to Lake, bears N.40°W. and S.40°E.
26.50	Leave greasewood, enter alkali flat, bearing N. and S.
31.30	The ¼ sec. cor., heretofore described.
	I make this cor. permanent as follows:
	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, alongside the old cor., for ¼ sec. cor., with brass cap marked
	S 11 / ¼ / S 14 / 1914
	Dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
	Thence
	S.88°44'W., on a resurvey line bet. secs. 11 and 14.
.80	Leave alkali flat, enter small sand hills, bearing N. and S.
5.00	Leave small sand hills, enter alkali flat, bearing N. and S.
10.00	W. U. Telegraph line bears N.39°30'W. and S.39°30'E.
10.90	Southern Pacific Ry. bears N.39°30'W. and S.39°30'E.
11.10	Slough drains S.
38.00	Old railway grade bears N.45°W. and S.45°E.
39.53	The cor. of secs. 10, 11, 14 and 15.
	Land, level bottoms.
	Soil, clay with alkali, wet.
	No timber.
	Undergrowth, greasewood.

U. S. Surveyor.

November 7, 1914.

RETRACEMENT AND RESURVEY OF

SUBDIVISION OF FRACL. T. 11 N., R. 8 W.

Chains	
	November 4, 1914:
	From the cor. of secs. 10, 11, 14 and 15,
	I retrace
	North, bet. secs. 10 and 11.
40.00	After careful search, find no trace of ¼ sec. cor.
79.59	Fall 1.48 chs. E. of the cor. of secs. 2, 3, 10 and 11, which is a small post, 2 x 3 x 14 ins. above ground, loosely set, very dimly marked 5 notches on S. and 2 notches on E. edges; no accessories.
	I make this cor. permanent as follows:
	Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, alongside the old cor., for cor. of secs. 2, 3, 10 and 11, with brass cap marked
	T 11 N | R 8 W S 3 | S 2 S 10 | S 11 1914
	and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	The course of this line is therefore N.1°04'W. and the distance 79.60 chs.
	Thence
	S.1°04'E., on a resurvey line bet. secs. 10 and 11.
	Over nearly level land, across alkali flat.
39.80	The proportionate point for ¼ sec. cor.
	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ S 10 | S 11 1914
	and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
41.90	Road, Lake to Monument, bears N.40°W. and S.40°E.
42.50	W. U. Telegraph line bears N.39°42'W. and S.39°42'E.
43.75	Main line of the Southern Pacific Ry. bears N.39°42'W. and S.39°42'E.
44.05	Siding of Southern Pacific Ry. called "Lake" bears

RETRACEMENT AND RESURVEY OF

SUBDIVISION OF FRACL. T. 11 N., R. 8 W.

Chains

N.39°42'W. and S.39°42'E.

66.20 Slough drains S.20°W.

78.50 Old railway grade bears N.45°W. and S.45°E.

79.60 The cor. of secs. 10, 11, 14 and 15.

Land, level alkali flat.

Soil, wet, heavy clay, old lake bottom.

No timber.

From the cor. of secs. 2, 3, 10 and 11,

I retrace

S.89°51'E., bet. secs. 2 and 11.

39.98 Fall 14 lks. S. of the ¼ sec. cor., which is a limestone 6 x 12 x 8 ins. above ground, loosely set, plainly marked ¼ on N. face; no accessories.

The course of this line is therefore N.89°57'E. and the distance 39.98 chs.

Moved to ¼ cor.

Thence I retrace

Note: A flag on the cor. of secs. 1, 2, 11 and 12 as set by Deputy Boutelle bears S.89°15'E.

S.89°15'E., bet. secs. 2 and 11.

29.95 Intersect W. bdy. of T. 11 N., R. 7 W., 2.39 chs. S.1° 37'E. of the cor. of secs. 6 and 7, heretofore described.

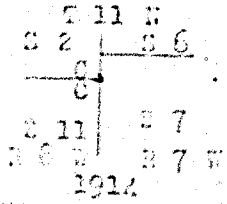
41.93 The cor. of secs. 1, 2, 11 and 12, heretofore described.

Thence

N.89°15'W., on a blank line.

11.98 Intersect W. bdy. of T. 11 N., R. 7 W., 2.39 chs. S.1° 37'E. of the cor. of secs. 6 and 7.

Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for closing cor. of secs. 2 and 11; with brass cap marked



Chains	
	Dig pits 24 x 18 x 12 ins., crosswise on each line, N. and S., 3 ft., and W. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	From this closing cor. I run
	N.89°15'W., on a resurvey line bet. secs. 2 and 11.
	Over nearly level bottom land.
14.95	Low sand ridge, 8 ft. high, bears N.30°E. and S.30°W.
29.95	The ¼ sec. cor. heretofore described.
	I make this cor. permanent as follows:
	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, alongside the old cor., for ¼ sec. cor., with brass cap marked
	S 2 / ¼ / S 11 / 1914
	Dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
	Thence
	S.89°57'W., on a resurvey line bet. secs. 2 and 11.
8.25	Slough, 20 lks. wide, 1 ft. deep, drains S.
20.43	Slough, 30 lks. wide, 1 ft. deep, drains S.
35.70	Slough, 20 lks. wide, 1 ft. deep, drains S.
39.98	The cor. of secs. 2, 3, 10 and 11.
	Land, nearly level.
	Soil, heavy, wet clay with alkali.
	No timber.
	U. S. Transitman.
	November 4, 1914.

November 7, 1914: At the cor. of secs. 2, 3, 10 and 11 I set off 16°11'S. on the decl. arc; and at 11h 44m a.m., l.m.t., observe the sun on the meridian; the

RETRACEMENT AND RESURVEY OF

SUBDIVISION OF FRACL. T. 11 N., R. 8 W.

Chains

resulting lat. is 41°43'.

Thence I retrace, on old course

N.0°17'E., bet. secs. 2 and 3.

Over level alkali flats.

31.00 Enter slough draining S.20°E.

33.00 Leave same.

40.51 Fall 37 lks. E. of the ¼ sec. cor., which is a limestone 6 x 10 x 12 ins. above ground, loosely set, surrounded with stones. Stone so badly corroded that marks are not visible.

I make this cor. permanent as follows:

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, alongside the old cor., for ¼ sec. cor. with brass cap marked

¼ S 3 | S 2

1914

Dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.

The course of this line is therefore N.0°15'W. and the distance 40.51 chs.

Moved to ¼ cor.

Thence I retrace, on old course

N.0°17'E., bet. secs. 2 and 3.

8.20 Road, Cedar Springs to Monument, bears N.60°W. and S. 60°E.

40.21 Fall 15 lks. E. of the cor. of secs. 2, 3, 34 and 35, on E. bdy. of Tp. Cor. described on page 6, these notes.

The course of this line is therefore N.0°04'E. and the distance 40.21 chs.

Land, level alkali flat.

Soil, wet, heavy clay.

No timber.

U. S. Surveyor.
November 7, 1914.

RETRACEMENT AND RESURVEY OF

SUBDIVISION OF FRACL. T. 11 N., R. 8 W.

Chains	
	November 5, 1914:
	From the re-established cor. of secs. 3, 4, 33 and 34, on S. bdy. of Tp., I retrace
	North, bet. secs. 33 and 34.
	Over nearly level land.
24.40	Low rocky ridge 20 ft. high, bears E. and W.
40.10	Fall 58 lks. E. of the ¼ sec. cor., which is a post, 2 x 3 x 20 ins., lying loose on the ground, dimly marked ¼ on one face; no accessories.
	I make this cor. permanent as follows:
	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, with the old cor., for ¼ sec. cor., with brass cap marked
	¼ S 33 | S 34 1914
	and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	The course of this line is therefore N.0°50'W. and the distance 40.10 chs.
	Moved to ¼ cor.
	Thence I retrace
	North, bet. secs. 33 and 34.
6.50	Sand bar 5 ft. high bears N.45°E. and S.45°W.
8.25	Reported dist. for meander cor. for fracl. secs. 33 and 34. After careful search find no trace of cor.
8.33	Shore of Great Salt Lake; beach sandy and not well defined.
	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for meander cor. of fracl. secs. 33 and 34, with brass cap marked
	T 11 N R 8 W MC S 33 | S 34 1914
	and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor.

Chains	
	Land, gently rolling. Soil, light, poor sandy loam, medium to coarse texture, dry, underlaid with clay and limestone. No timber.
	MEANDERS, T. 11 N., R. 8 W. I commence at the meander cor. of fracl. sec. 33, on the S. bdy. of the Tp., heretofore described. Thence I run with meanders along the rocky shore of Great Salt Lake in sec. 33. N.8°E. 11.90 chs. N.12°E. 15.00 chs. N.19°30'W. 12.00 chs. N.1°W. 3.00 chs. N.43°E. 7.70 chs. N.88°30'E. 7.00 chs. Leave rocky shore; enter sandy beach. N.70°20'E. 5.58 chs., to meander cor. for fracl. secs. 33 and 34. Land, lake shore. Soil, clay, sand and stones. No timber.
	Thence in sec. 34, from meander cor. of fracl. secs. 33 and 34, along sandy beach; shore line indistinct. N.31°45'E. 15.33 chs. N.22°45'E. 20.00 chs., to meander cor. of fracl. secs. 27 and 34. Land, lake shore, level. Soil, sandy on clay with alkali and salt.
	Thence in sec. 27, from meander cor. of fracl. secs. 27 and 34, along sandy beach. N.1°W. 7.20 chs. N.14°W. 32.00 chs.

MEANDERS, T. 11 N., R. 8 W.

N.7°45'W. 18.00 chs.

N.65°30'E. 11.00 chs.

North 13.00 chs.

N.40°E. 4.50 chs.

N.59°E. 7.00 chs., to meander cor. of secs. 22 and 27.

Land, lake shore.

Soil, sandy with some stones on lava and clay base.

No timber.

U. S. Transitman.

November 5, 1914.

Latitudes, Departures and Closing Errors.

Lines Designated	True Bearing	Dist. Chs.	Latitudes N. Chs.	Latitudes S. Chs.	Departures E. Chs.	Departures W. Chs.
S.bdy.sec.35	N.89°50'W.	38.19	.11	.....	.....	38.19
S.bdy.sec.35	N.89°56'W.	40.10	.05	.....	.....	40.10
W.bdy.sec.35	N.0°22'W.	40.56	40.56	.....	.....	.26
W.bdy.sec.35	N.0°22'W.	40.20	40.20	.....	.....	.26
W.bdy.sec.26	N.0°25'W.	40.23	40.23	.....	.....	.29
W.bdy.sec.26	N.0°13'W.	40.15	40.15	.....	.....	.15
W.bdy.sec.23	N.0°46'W.	40.15	40.14	.....	.....	.54
W.bdy.sec.23	N.1°01'W.	40.26	40.25	.....	.....	.71
W.bdy.sec.14	N.0°01'W.	80.50	80.50	.....	.....	.02
W.bdy.sec.11	N.1°04'W.	79.60	79.59	.....	.....	1.48
W.bdy.sec. 2	N.0°15'W.	40.51	40.51	.....	.....	.18
W.bdy.sec. 2	N.0°04'W.	40.21	40.21	.....	.....	.05
N.bdy.sec. 2	S.89°32'E.	67.96	.....	.55	67.96	.....
E.bdy.secs.2,11, 14,23,26 & 35	S.1°37'E.	482.13	.....	481.94	13.60	.....
Convergency					.10	
	Totals		482.50 482.49	482.49	81.66	82.23 81.66
	Error in lat. and dep.		.01			.57

GENERAL DESCRIPTION, T. 11 N., R. 8 W.

The land in the southeastern part of sec. 14, and the eastern part of secs. 23, 26 and 35 is low foothills. The balance of this fractional township is low, nearly level land along the shore of Great Salt Lake. The soil is clay with some alkali and alkali barren flats. There is a scattered growth of greasewood on the clay lands. Soil on the foothills is gravelly and stony, and has a scattered growth of sagebrush.

There are some iron stained rocks on the shore of Great Salt Lake in sec. 34; no other traces of mineral.

There is no fresh water in this fractional township.

A salty marsh or slough extends through secs. 2, 11 and 14.

This fractional township is exposed to hot, dry, southwest winds, detrimental to vegetation.

There are no settlers in the township.

This fractional township furnishes some winter pasture for sheep and cattle.

Chas. W. Dougall
U. S. Surveyor.

Thos. C. Cattoire
U. S. Transitman.

4—680

BOOK A-410

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 ited opposite our several signatures, in surveying all those parts or portions of .....

.....

.....

.....

.....

.....

.....

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

ich are represented in the foregoing field notes as having been executed by him, and under his direc-n; and that said survey has been, in all respects, to the best of our knowledge and belief, well and ithfully 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.

3—2764

BOOK A-410

FINAL OATH OF UNITED STATES ~~SURVEYOR~~ TRANSITMAN.

I, Thomas C. Rathbone, Transitman, U. S. ~~Surveyor~~, do solemnly swear that, in pursuan of special instructions received from the U. S. Surveyor General for Utah bearing date of ~~the April 23, day of 1914, October 7,~~ and November 10, 1914, respectively, 1914, I have well, faithfully, and trul in my own proper person, and in strict conformity with said instructions, the Manual of Surveyin Instructions, and the laws of the United States, retraced and re-surveyed all those parts or portions of

North bdy. T. 11 N., R. 8 W.
South bdy. T. 11 N., R. 8 W.
Subdivision of Fracl. T. 11 N., R. 8 W. and
Meander Lines in T. 11 N., R. 8 W.

of the Salt Lake Base and Meridian, in the State of Utah, 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 accord ance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyo General for Utah and in the specific manner described in the field notes, and tha the foregoing are the original field notes of such survey.

Thos. C. Rathbone
~~U. S. Surveyor~~ Transit

Subscribed by said Thomas C. Rathbone, and sworn to before me this 18th day of April, 1916

SEAL

C. O. Thoresen

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 been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys 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.

C—2761

4—680

BOOK A-410

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, John W. Dougall and Thomas C. Rathbone, U.S. Transitman, U. S. Surveyor, during the periods and in the capacities ted opposite our several signatures, in retracing and re-surveying all those parts or portions of Pracl

North bdy. of T.11 N.R.8 W.

South bdy. of T.11 N.R.8 W.

Subdivision And Meander Lines

of

T.11.N.R.8 W.

the Salt Lake Base and Meridian, in the State of Utah.

ich are represented in the foregoing field notes as having been executed by him, and under his direc-n; and that said survey has been, in all respects, to the best of our knowledge and belief, well and thfully executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	
arnum B. Packard	Nov.2. 1914	Nov.9,1914	Chainman
lliot Bird	Nov.2.1914	Nov. 9,1914	Chainman
~~Henry Johnson~~	00000000000000	00000000000000000	~~Chainman~~
Joseph Smith	Nov. 2, 1914	Nov. 9 ,1914.	Chainman
Alanson Allen	Nov. 2, 1914	Nov. 9, 1914.	Axman
Louis Bingham	Nov. 2, 1914	Nov. 9,1914	Flagman
ryson M. Mitchell	Nov. 2,1914	Nov. 9, 1914	Flagman
Ross B Kindred	Nov. 2, 1914,	Nov,.9,1914	Chainman

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

John W. Dougall
U. S. Surveyor.

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FINAL OATH OF UNITED STATES SURVEYOR.

I, John W. Dougall, 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 April 23, 1914, and Nov. 10, 1914, respectively Oct. 7, 1914, 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, retraced and re-surveyed all those parts or portions of

North bdy. T.11 N.R.8 W.
South bdy. of T.11 N.R.8 W.

Subdivision of fracl. T.11 N.R.8 W. and
Meander Lines in T. 11 N., R. 8 W.

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

John W. Dougall
U. S. Surveyor

Subscribed by said John W. Dougall, and sworn to before me this 18 day of April, 1916.

SEAL

J. C. Thoresen
U. S. Surveyor-General
for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 18, 1916.

The foregoing field notes of the ~~survey~~ retracement and resurvey of the Nort and South boundaries and Subdivisional and Meander lines of Township 11 North, Range 8 West, of the Salt Lake Base and Meridian,

executed by John W. Dougall and Thomas C. Rathbone under their ~~special~~ instructions dated April 23, 1914, and November 10, 1914, respectively October 7, 1914, ~~ink~~, having bee critically examined, and the necessary corrections and explanations made, the said field notes, and th retracements and re-surveys they describe, are hereby approved.

J. C. Thoresen
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.

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U. S. Surveyor General.

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BOOK A-410

U. S. Surveyor General's Office
FEB 25 1915
SALT LAKE CITY, UTAH.

new FIELD NOTES

OF THE SURVEY OF THE

RETRACEMENT AND RESURVEY OF SECOND STANDARD PARALLEL NORTH

THROUGH RANGES 4, 5, and 6 EAST;

RETRACEMENT OF SECOND STANDARD PARALLEL NORTH RANGE 3 EAST;

RACEMENT WEST BOUNDARY AND SUBDIVISION TOWNSHIP 9 NORTH, RANGE 4 EAST;

ACEMENT AND RESURVEY OF NORTH BOUNDARY TOWNSHIP 7 NORTH, RANGE 4 EAST;

RETRACEMENT AND RESURVEY FIRST GUIDE MERIDIAN

TOWNSHIP 8 NORTH, BETWEEN RANGES 4 AND 5 E.;

RACEMENT AND RESURVEY EAST BOUNDARY TOWNSHIP 8 NORTH, RANGE 3 EAST;

RETRACEMENT NORTH BOUNDARY TOWNSHIP 7 NORTH, RANGE 3 EAST;

AND

URVEY OF THE SUBDIVISIONAL LINES OF TOWNSHIP 8 NORTH, RANGE 4 EAST

Of the SALT LAKE BASE AND *Meridian,*

the State of U T A H

EXECUTED BY

JOHN W. DOUGALL AND THOMAS C. RATHBONE

the capacity of U. S. Surveyor and Transitman *, under instructions dated* July 8 *, 1914,*

sued by the United States Surveyor General to govern surveys included in

roup No. 34 *, which were approved by the* Supervisor of Surveys ~~Commissioner of the General Land~~

fice, July 13 *, 1914, pursuant to authority contained in the Act of*

ongress dated *, 191*

Survey commenced July 14, *, 1914*

Survey completed Sept. 14, *, 1914.*

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BOOK A-410

Examinations Classified

A Plat V.I.F. Notes V.I.F.

B Computations V.I.F. Ck.

Comparing

C Plat G.N. Notes E.R. · K.F.B.

31 32 33 34 35 36

Second Standard Parallel North, through R.5 E.

37 41 39 42 43 44

18 18 17 17 16 16

31 32 33 34 35 36

South Line of Second Standard.

8 9 10 11 12 13

INDEX DIAGRAM.

Township 8 North, *Range* 4 East

21 29 21 30 20 31 20 32 34 19 35 19

3 4 4 5 6 7

71 85 6 161 5 144 4 132 3 120 2 108 1 60 69

160 159 143 131 119 107

71 84 7 158 8 142 9 130 10 118 11 105 12 61 68

156 155 141 129 117 104

72 82 18 154 17 140 16 128 15 115 14 103 13 66 60

153 152 139 126 114 102

72 81 19 150 20 137 21 125 22 113 23 100 24 64 59

149 148 136 124 112 99

73 80 30 147 29 135 28 123 27 111 26 98 25 58 63

96 94 93 91 90 89

74 79 31 146 32 134 33 122 34 109 35 97 36 62 58

76 75 56 54 53 51 50 48

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BOOK A-410

FIELD NOTES

OF THE SURVEY OF THE

Of the ..... *Meridian,*

the State of .....

EXECUTED BY

the capacity of U. S. Surveyor...., *under instructions dated*....., *191*....,

sued by the United States Surveyor General to govern surveys included in

roup No......, *which were approved by the Commissioner of the General Land*

fice, ..., *191*...., *pursuant to authority contained in the Act of*

ongress dated ....., *191*....

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

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

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31	32	33	34	35	36
North Line Second Standard Parallel N. Range 3 East.					
				23	22

INDEX DIAGRAM.

Township 9 North, *Range* 3 East.

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	23 35	36

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BOOK A-410

FIELD NOTES

OF THE SURVEY OF THE

Of the ..... *Meridian,*

the State of .....

EXECUTED BY

the capacity of U. S. Surveyor....., under instructions dated....., 191....,

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roup No....., which were approved by the Commissioner of the General Land

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ongress dated ....., 191....

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

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

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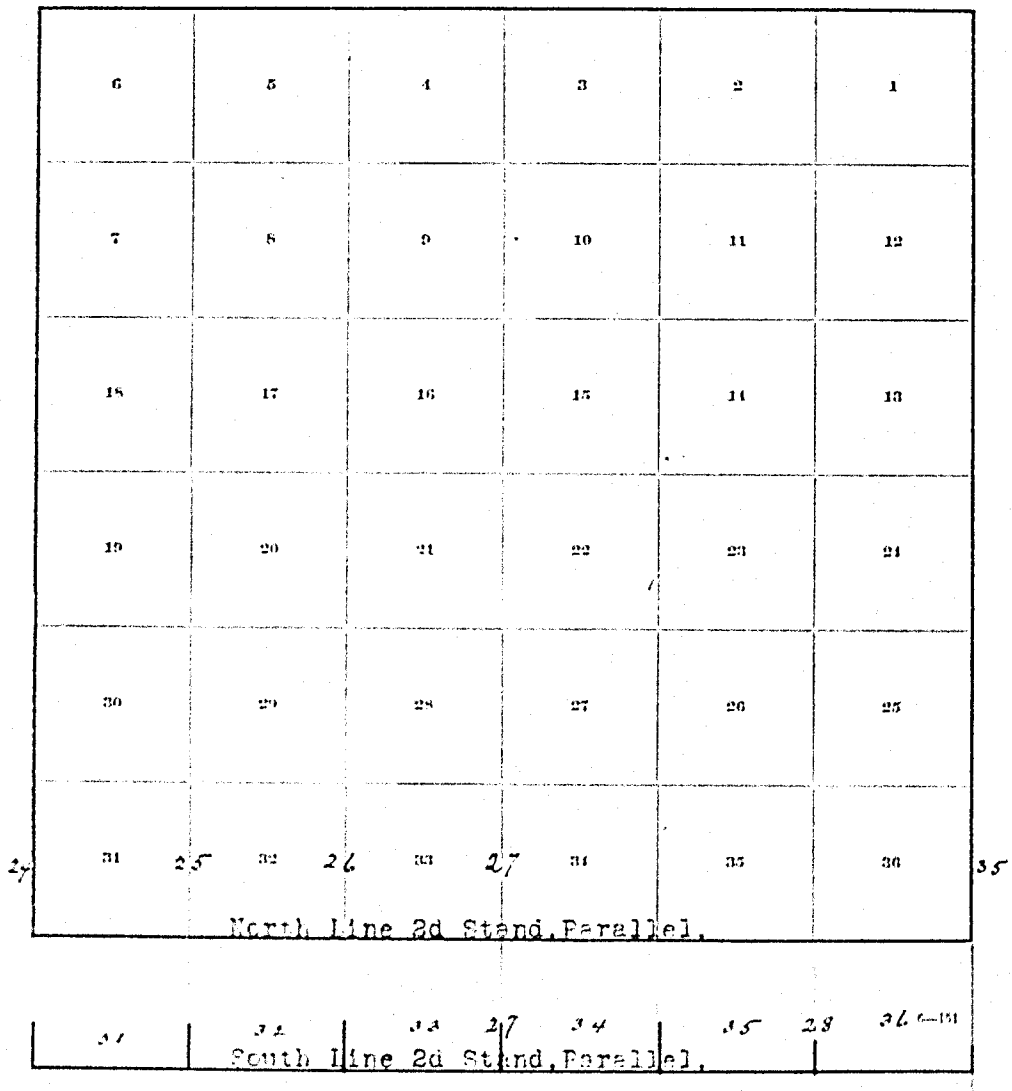
INDEX DIAGRAM.

Township 9 North, *Range* 4 East.



Retracement of Second Standard ParallelN.throughRs.4 & 5 E.

Survey commenced July, 14 ,1914, and executed with a Young and Sons light mountain transit No.8515 ,with solar attachment and a K.& E.light mountain transit No. 20575 with solar attachment . The horizontal limb on each transit is provided with two double verniers placed opposite to each other and reading to single minutes of arc;which is also the least count of the verniers of the latitude and declination arcs;.

The instruments were approved for use in this survey by Mr.G.D.D.Kirkpatrick,Assistant Supervisor of Surveys.

We examine the adjustments of the instruments and correct the level and collimation errors ,then, to test the solar apparatus of the instruments ,by comparing their indications resulting from solar observations made during p.m.and a.m.hours ,with a meridian determined by observations on Polaris.,

We proceed as follows ;

At a point 12 00 chs.S.of a CC.Apparently the cor. set for the CC.of T.8 N.Rs.3 & 4 E.by Edward Hansen, U.S.Deputy Surveyor under his (rejected) Contract No. 231 dated April 26,1899.;latitude 41°28' N.longitude 111°33' W.

We set off 41°28'N. on the lat.arc;21°44'N. on the decl. arc;and at 4 h p.m. apparent time ,determine a meridia n with the solars of each transit and mark points thereof on a wooden stake firmly driven in the ground 5 chs.N. of the station.

July,14,1914,

July ,15,1914, At Oh.05 m. a.m. l.m.t. observe Polaris at eastern elongation ,in accordance with the Manual of Instructions ,and mark a point in the line thus determined ,on a wooden peg firmly driven in the ground 5 chains N. of the station.

At 7:30 a.m. apparent time , lay off the azimuth of Polaris ,1°32' to the west ,and mark the meridian thus determined ,by making a pencil markon the stake set

July,14, on which the meridian falls 0.9 ins.eastof the mark determined by the solar on transit No.8515,and 0.3 west of the mark determined by the solar on transit No. 20575.

At 9 a.m. apparent time , set off 41°28'N. on the lat arc; 21°37'N. on the decl.arc; and mark points in the meridians determined with the solars ,by making pencil marks on the stake set July, 14, 5 chs. N. of the stati the mark defined by the solar on transit No.8515 falls 0.2 ins.west and the mark defined by the solar on tran No.20575 falls 0.6 ins.west of the meridian established by the Polaris observation .

The solar apparatus ,on transit No.8515 by p.m.and a.m. observations defines positions for meridians , respectively about 0'47" westand 0'10" west,and the solar apparatus on transit No.20575 by p.m.and a.m. observations defines positions for meridians , respectively about 0'16" east and 0'31" west of the meridian established by the Polaris observations ; therefore we conclude that the adjustments of the instruments are satisfactory.

The magnetic bearing of the true meridian ,at 9^h30^ma.m. isN17°55'W.;the angle thus determined gives the mag. decl.17°55'E.

Steel tapes 5 chains long were used in all the field wor together with clinometers for determining slope angles and the reduced horizontal distances only appear in the field note books,. The tapes were tested frequently during the season,comparison being made with a standard tape 1 chain long ,kept for this purpose .

The data furnished by The Surveyor General indicates that there are two Second Standard Parallels North monumented on the ground through ranges 4 and 5 East. and in order to ascertain which is the proper parallel

Chains.

on which to close the surveys in T.8 N.R.4 E.1 deem it necessary to make extensive retracements of the monumented lines in Rs.4 and 5 E. also retrace all boundaries of T.8 N.R.4 E .

Retracement of the South Line of the Second Standard Parallel North Through Ranges 4 and 5 East .

---

1 commence at the CC. of T.8 N. Rs. 3 and 4 E. apparently set by Edward Hansen ,U.S.Deputy Surveyor under his (Rejected) Contract No.231 dated April ;26,1899 , on the S. one of the two standard lines, which is asand stone 10 X 12 X 20 ins. above the ground ,firmly set, plainly marked 6 grooves on E.S. and W. faces and CC on N. face not witnessed ,

Thence 1 retrace

East on S.bdy. of sec.31.

Descend gently along N. slope of spur .

1.80 Enter dense willow and choke cherry underbrush bears N.45°E and S.45°W.

19.50 Fall 84 lks.S.of standard ¼ sec.cor. which is a quartzite stone 4 X 8 X 8 ins. above ground, firmly set,plainly marked ¼ on N. face ;small stone mound, N. of cor.

Therefore the course of this line is N.87°32'E. and distance is 19 52 chs.

Moved to ¼ sec. cor.

Thence 1 retrace

East on S.bdy. of sec.31,.

4.00. Draw 50 ft. below ¼ sec. cor. heads S.60°E. drains N.20°W.

35.50 Top of spur 375 ft. above draw projects N.20°W. also leave underbrush enter scattering aspen timber bears N.20°W and S.20°E.

40.12 Intersect the standard cor. of secs.31 and 32 ,which is a reddish sand stone 6 X 10 X 12 ins. above ground, firmly set , plainly marked 5 grooves on E. and 1 groove on W. faces ,not witnessed .

Chains.	
	Therefore the course of this line is East and distance is 40 12 chs.
	July,15, At this cor.1 set off 21°36'N. on the decl.arc; and at 12 m.apparent time observe the sun on the meridian the resulting lat.is 41°28'
	From the standard cor. of secs.31 and 32.
	1 retrace
	East on S. bdy of sec. 32.
	Descend gently over mts.land through scattering aspen timber .
9. 20	Small draw 100 ft.below sec.cor.drains N.
14. 50	Spur 60 ft.above draw projects N.
22. 75	Head of draw 50 ft.below spur drains N.10°W.10 chs.then N.60°W.
35.00	Top of main spur 110 ft.above draw projects N.10°W.
40.39	Fall 62 lks.S.of an aspen tree 16 ins.diam. plainly marked ¼ S 5 B T .
	After diligent search find no other traces of a ¼ sec. cor.
	Thence descend gently .
63. 00	Draw 200 ft. below spur drains N.
66. 90	Leave aspen timber bears N. and S.
82. 04	Fall 22 lks. S .of standard cor.of secs.32 and 33,which is a limestone 7 X 17 X 13 ins.above ground ,firmly set, plainly marked 4 grooves on E.and 2 grooves on W.faces not witnessed
	Therefore the course of this line is N.89°51'E.and distance is 82 04 chs.
	July, 15,1914.
	July,16,1914, At 8 a.m. apparent time ,1 set off 41°28' N.on the lat. arc; 21°28'N.on the decl.arc;and determine a meridian with the solar at the S.C.of secs.32 and 33.
	Thence 1 retrace
	East on S.bdy.of sec.33.

Retracement of S. Line of Second Standard N. Through R. 4 E.

Chains.	
	Ascend over mountainous land .
11.00	Barney "Dug Way" on road from Ogden to Woodruff bears N. 10°E. and S. 10°W.
13.95	Abandoned road bears N. 40°E. & S. 40°W.
15.00	Enter scattering aspen timber bears N. 30°E. and S. 30°W.
19.80	Abandoned road bears N. & S.
26.00	Leave aspen timber bears N. & S.
27.30	Road Ogden to Woodruff bears N. 10°W. and S. 10°E.
38.70	Fall 9 lks. S. of standard ¼ sec. cor. which is a sandstone 6 X 14 X 16 ins. above ground, loosly set, plainly marked ¼ on N. face, not witnessed .
	Therefore the course of this line is N. 89°52'E. and distance is 38.70 chs.
	Moved to ½ sec. cor.
	Thence 1 retrace
	East on S. bdy. of sec. 33.
5.00	Enter aspen and pine timber bears N. 50°E. and S. 60°W.
6.00	Top of Ridge 300 ft. above S. C. of secs. 32 and 33. bears N. 80°E. and S. 10°W.
19.00	Head of draw 75 ft. below ridge drains S. 70°E.
21.80	Road Ogden to Woodruff bears N. 60°E. and S. 60°W.
40.41	Fall 19 lks. S. of S. C. of secs. 33 and 34, which is a limestone 12 X 20 X 24 ins. loosly set in a stone mound plainly marked 3 grooves on E and W. faces and S. C. on N. face, not witnessed.
	Therefore the course of this line is N. 89°44'E. and distance is 40.41 chs.
	July, 16, At this cor. 1 set off 21°26'N. on the decl. arc; and at 12 m. apparent time observe the sun on the meridian the resulting lat. is 41°27'N. or within 1' of the true lat.
	From the S. C. of secs. 33 and 34,
	1 retrace
	East along S. bdy. of sec. 34.
	Ascend gently through scattering aspen and pine timber.
0.70	Low spur 10 ft. above cor. projects S.

Retracement of S.Line of 2nd. Standard Through R.4 E.

Chains.	
3.75	Head of small draw 40 ft.deep drains S.
21.00	Top of Ridge 75 ft.above draw bears S.85°E. and N.85°W.
23.00	Enter heavy timber bears N. and S.
37.00	Leave same bears N.10°E.and S.10°W.
38.00	Top of ridge bears N.10°E.and S.85°W.
40.00	After careful search find no trace of standard $\frac{1}{4}$ sec.cor.
40.65	Begin abrupt descent bears N.& S.
45.50	Foot of abrupt descent thence gentle descent bears N.& S.
46.00	Enter heavy aspen timber bears N.40°E. and S.40°W.
56.00	Head of draw 400 ft.below ridge drains N.40°E.
71.00	Point of spur 65 ft.above draw projects N.30°E.
79.00	Enter pine timber among aspen bears N.& S.
81.47	Fall 1 lk.south of S.C.of secs.34 and 35 ,which is a limestone 6 X 10 X 8 ins.above ground, loosly set, plainly marked 2 grooves on E.and 4 grooves on W.faces. not witnessed ,
	Therefore the course of this line is East and distance is 81 47 chs.
	July,16,1914.

	July,17, 1914, From the standard cor.of secs.34 and 35. 1 retrace E.on S.bdy.of sec. 35.
	Descend over mountainous land through pine and aspen timber.
0.80	Leave timber bears N.45-W. and S.45°E.
2.75	Draw 75 ft.below sec. cor. drains S.25°E.
6.00	Begin abrupt ascent bears N.25°W.& S.25°E.
13.00	Top of abrupt ascent bears N. and S.
13.25	Enter aspen timber and dense choke cherry underbrush bears N. and S.
20.00	Leave dense underbrush bears N. and S.
31.00	Enter dense underbrush bears N.10°E and S.10°W.
32.00	Top of spur 200 ft.above draw projects S.60°E.
40.00	After careful search find no trace of standard $\frac{1}{4}$ sec.cor.
42.60	Head of draw 190 ft.below spur drains S.60°E.
60.00	Spur 125 ft,above draw projects S.60°E.

Retracement of S.Line of 2nd.Standard N.Through R.4 E.

chains.	
70.00	Leave timber and underbrush bears N. and S.
81.45	Fall 9 lks. S.of S C .of secs. 35 and 36,which is a limestone 5 X 6 X 6 ins. above ground, loosly set , plainly marked 1 groove on E. and 5 grooves on W.faces, not witnessed ,
	Therefore the course of this line is N.89°56'E. and distance is 81 45 chs.
	July,17, At this cor.1 set off 21°16'N. on the decl.arc; and at 12 m.apparent time ,observe the sun on the meridian the resulting lat. is 41°28' N.
	From the S.C. of secs. 35 and 36,
	1 retrace E. on S.bdy. of sec. 36,
	Descend gently over rolling mts.land.
5.00	Head of draw 50 ft.below sec.cor. drains,S.20°E.
6.40	Wood road bears N.20°W.and S.20°E.
9.00	Enter scrubby aspen timber bears N.45°W & S.45°E.
13.50	Leave same bears N.10°W.& S.10°E.
35.00	Main spur 100 ft.above draw projects S.45°E.
40.12	Fall 5 lks.N.of standard ¼ sec.cor. which is a sandstone 6 X 6 X 6 ins. above ground, firmly set, plainly marked ¼ on S.face small stone mound, S.E. of cor.
	Therefore the course of this line is S.89°56'E.and distance is 40.12 chs.
	Moved to ¼ sec. cor.
	July,17 , At 2 h p.m. apparent time ,1 set off 41°28' N. on the lat. arc;,21°15'N. on the decl.arc; and determine a meridian with the solar at the Standard ¼ sec .cor.
	Thence 1 retrace,
	East on S. bdy. of sec. 36,
	Descend gently along N. E. slope .
4.00	Draw 75 ft. below ¼ sec. cor. drains N.
4.25	Enter small aspen timber bears N. and S.
6.70	Leave same bears N.and S.
14.00	Top of small spur 90 ft.above draw projects N.
15.00	Enter thick scrubby aspen timber bears N.10°W. and S.10°E.

Chains.	
40.39	Fall 12 lks.S. of closing cor. of Tp.8 N. Rs. 4 & 5 E. which is a sandstone 10 X 10 X 20 ins. above ground, firmly set, plainly marked ,6 grooves on E.S.& W.faces. CC on S. face,
	Stone mound S.of cor.
40.99	Fall 12 lks.S.of Standard cor. of T.9 N.Rs.4 & 5 E. which is a sandstone 7 X 7 X 7 ins. above ground, loosly set, dimly marked 6 grooves on E.W.& N.faces and S C.on N. face ,not witnessed ,
	This cor. is 400 ft. below spur .
	Therefore the course of this line is N.89°50'E. and dist. is 40 99 chs.
	July, 17, 1914.

Retracement of S.Line of Second Standard Through R.5 E.

	July, 20. 1914. At 9 h.a.m. , apparent time ,I set off 41°28'N. on the lat. arc; 20°46'N. on the decl.arc; and determine a meridian with the solar at the Standard cor. of T.9 N.Rs.4 & 5 E. previously described .
	Thence I retrace ,
	N.89°29'E. on S. bdy. of sec. 31,
	Descend through aspen timber,
9.10	Draw 150 ft. below Tp.cor. drains S.80°E.
10.50	Abandoned road bears N.80°W.and S. 80°E.
26·00	Leave aspen timber bears N. and S.
26·91	Fall 9 lks. S. of standard ¼ sec. cor. which is a sandstone 5 X 12 X 8 ins. above ground ,firmly set,in a mound of stone , plainly marked ¼ on N. face .not witnessed ,
	Therefore the course of this line is N.89°17'E.and distance is 26.91 chs.
	Moved to ¼ sec. cor.
	Thence I retrace ,
	N.89°29'E.on S.bdy. of sec.31;
13.30	Abandoned road bears N.80°E. and S.80°W.
24·00	Spring branch 3 lks. wide 3 ins. deep in mouth of draw

Chains.	
	drains S. 2 00 chs. then S.80°E.
26.19	Fall 18 lks. N. of closing cor.of secs. 5 & 6. of T.8 N. R.5 E.which is a hard sand stone 9 X 10 X 12 ins. above ground, firmly set, plainly marked 1 groove on W. and 5 grooves on E.faces and CC.on S. face ,stone mound, 2 ft.base 2 ft. high S. of cor.
40.07	Fall 27 lks.N. of Standard cor. of secs.31 & 32 ,which is a hard sandstone 5 X 6 X 8 ins,loosly set in a stone mound, plainly marked 1 notch on W.& 5 notches on E. edges,and S.C. on NW. face ,not witnessed,
	This cor.is 150 ft. above spring branch.
	Therefore the course of this line is N.89°52'E.and dist. is 40 07 chs.
	- - ----------
	From standard cor. of secs. 31 and 32 .
	1 retrace N.89°29'E. on S. bdy. of sec. 32.
	Ascend over rolling mts. land.
10.80	Top of spur 85 ft.above S.C. projects S. thence across spur .
21.50	Enter scrubby aspen timber bears N. and S. and descend
33.00	Leave same bears N. and S.
34.90	Small draw 75 ft.below spur drains S. 10°E.
40.01	Fall 5 lks. S. of standard ¼ sec. cor. which is a lime stone 3 X 7 X 12 ins. loosly set in a stone mound, plainly marked ¼ on N. face,not witnessed ,.
	Therefore the course of this line is N.89°25'E.and distance is 40 01 chs.
	July, 20,1914. The sky is partly overcast and further solar observations are impossible,
	Moved to ½ sec. cor.
	Thence 1 retrace N.89°29'E. on S. bdy. of sec. 32.
5.00	Low spur projects S.
8.80	Enter scrubby aspen timber bears N.and S.
11.90	Leave same bears N and S.
14.85	Spring branch 4 lks. wide 2 ins. deep in hollow drains S.
25.91	Fall 4 lks. N.of closing cor. of secs. 4 & 5 of T.8 N.

Retracement of S.Line of 2nd.Standard Through R.5 E.

Chains.	
	R.5 E. ,which is a sandstone 6 X 10 X 12 ins. above ground, loosly set, plainly marked 2 grooves on W.4 grooves on E.and 6 grooves and CC on S faces ,stone mound, 2 ft. base 1 ft. high S of cor.
35.90	Top of spur 90 ft. above hollow projects S.10°W.
40.08	Fall 13 lks.N. of standard cor. of secs. 32 and 33, which is a sandstone 6 X 6 X 8 ins. above ground, loosly set, plainly marked 2 grooves on W.and 4 grooves on E. faces and S C on N. face not witnessed ,
	Therefore the course of this line is N.89°40'E. and distance is 40 08 chs.

	Frmmthe S C of secs. 32 and 33,
	1 retrace
	N.89°29'E. on S.bdy.of sec. 33,
	Descend gently over rolling mts. land, .
2.00	Head of draw 50 ft.below sec.cor. drains S.20°W.
26.00	Top of spur 125 ft.above head of draw projects S.
27.00	Enter scrubby aspen timber bears N.and S.
39.80	Bottom of draw 200 ft. below spur drains S.20°W.also leave aspen timber , bears N. and S.
39.93	Fall 13 lks.N. of standard ¼ sec. cor. which is a sand stone 6 X 7 X 8 ins. above ground, firmly set,plainly marked ¼ on N. face ,not witnessed .
	Therefore the course of this line is N.89°40'E. and distance is 39 93 chs.
	Moved to ¼ sec. cor.
	Thence 1 retrace
	N.89°29'E. on S. bdy.of sec. 33,
	Ascend over mts.land.
16.50	Top of spur 300 ft. above ¼ sec.cor. projects S.10°W.
20.50	Enter scrubby aspen timber bears N.& S.
22.50	Leave same bears N.and S.
25.94	Fall 16 lks. S.of closing cor. of secs. 3 and 4, of T.8 N.R.5 E. which is a sandstone 8 X 10 X 12 ins. above ground, firmly set, plainly marked 3 grooves on

Chains.	
	E and W faces ,6 grooves and C C .on S.face ,stone mound 3 ft.base 1 ft.high S.of cor.
39.98	Fall 23 lks. S. of standard cor. of secs. 33 and 34, which is a sandstone 6 X 12 X 12 ins. above ground, firmly set , plainly marked 3 grooves on E.and W. faces S C on N. face small stone mound, N. of cor. Therefore the course of this line is N.89°09'E. and distance is 39 98 chs.
	July, 20,1914.

	July 23 1914. The sky is overcst and solar observations are impossible.
	From the standard cor. of secs. 33 and 34.
	1 retrace
	N.89°29'E. on S.bdy .of sec.34.
	Descend gently over mts. land.
1.00	Head of draw 175 ft. below spur drains S.IO°W.
13.00	Spur 125 ft. above head of draw projects S.IO°W.
17.30	Enter scrubby aspen timber bears N.& S.
23.40	Leave same bears N. and S.
28.70	Draw 320 ft. below spur drains. S. IO°E.
39.99	Fall 3 lks. N. of standard ¼ sec. cor. which is a sand stone 3 X IO X II ins. above ground, firmly set, plainly marked ¼ on N. face , not witnessed , Therefore the course of this line is N.89°32'E. and distance is 39 99 chs.
	Moved to ¼ sec. cor.
	Thence 1retrace ,
	N.89°29'E. on S.bdy.of sec. 34.
	Ascend gently over mts.land.
4.80	Spur 275 ft. above draw projects S.
12.00	Enter scrubby aspen timber bears N. and S.
15.90	Draw 225 ft. below spur drains S. leave aspen timber brs. N.& S.
24.50	Spur 125 ft. above draw projects S.
25.86	Intersect closing cor.of secs. 2 and 3,of T.8 N.R.5 E which is a sandstone 6 X 8 X 12 ins. above ground,

Chains.	
	firmly set, plainly marked 2 grooves on E. 4 grooves on W.faces ,6 grooves and CC.on S.face ,stone mound, 2 ft. base 1 ft.high S. of cor.
32 .70	Head of small draw drains S.
38.70	Small spur projects S.
39.93	Fall 7 lks.S.of standard cor.of secs. 34 & 35,which is a sandstone 6 X 6 X 8 ins. above ground ,firmly set, plainly marked 4 grooves on W. 2 grooves on E.faces. 6 grooves and S C on N. face,small stone mound N. Therefore the course of thisline is N.89°23'E. and distance is 39 93 chs.

	Fram standard cor. of secs. 34 and35 ,
	1 retrace
	N.89°29'E. on S.bdy. of sec. 35,
	Descend over mountainous land,
3.20	Enter scrubby aspen timber bears N.IO°E.and S.IO°W.
5.80	Leave same bears N.and S.
13 .00	Draw 275 ft. below cor. drains S.
21.00	Spur 300 ft. above draw projects S.
38 .50	Draw 200 ft.below spur drains S.IO°W.
40 .00	After careful search find no trace of standard ¼ sec. cor.
49.30	Spur 500 ft. above draw projects S.30°W.
53.00	Head of draw 75 ft.below spur drains S.
58 .00	Spur 85 ft .above head of draw projects S.
62.00	Head of draw 100 ft.below spur drains S.
65.00	Low spur 60 ft.above head of draw projects S.
66.76	Fall 29 lks. S.ofclosing cor. of secs. 1 & 2 of T.8 N.R. 5 E .which is a quartzite stone 5 X IO X 12 ins. above ground, firmly set, plainly marked 1 groove on E . 5 grooves on W.faces ,6 grooves and CC on S. face.stnne mound 2 ft. base 1 ft. high S. of cor.
74.00	Small draw drains S.
79.00	Point of spur projects S.
79.55	Fall 30 lks. S. of standard cor. of secs. 35 and 36,

hains.	which is a sand stone 5 X 12 X 18 ins. above ground, firmly set, plainly marked ,5 grooves on W. and 1 groove on E.and 6 grooves and S C on N. faces ,stone mound 2ft base 1 ft.high N. of cor.
	Therefore the course of this line is N.89°16'E.and distance is 79.55 chs.

	From the standard cor.of secs. 35 and 36 ,
	1 retrace
	N.89°29'E. on S.bdy.of sec. 36.
	Descend over mountainous land.
3.00	Draw 120 ft.below sec.cor. drains S.
15.00	Spur 95 ft.above draw projects S.
18.20	Enter thick willows bears N. and S.
20.00	Leave same bears N.and S.
25.00	Enter N. side on "Woodruff Creek Canyon" bears N.85°E and S.85°W.
40.02	Fall 5 lks.S.of standard ¼ sec.cor. which is a hard sandstone 8 X 10 X 12 ins. above ground, firmly set, plainly marked ¼ on N. face ,small stone mound N.of cor.
	Therefore the course of this line is N.89°25'E. and distance is 40 02 chs.
	Moved to ¼ sec. cor.
	Thence 1 retrace
	N.89°29'E. on S. bdy.of sec.36.
	Across bottoms.
2.00	Enter dense willows bears N.85°E.and S.85°W.
8.00	Leave same bears N.80°W.and S.80°E.
9.00	Leave bottom of Woodruff Creek Canyon"ascend bears N.85°W. and S.85°E.
28.01	Fall 2 lks.S.of closing cor.of T.8 N.Rs.5 & 6.E. which is a quartzite stone 7 X 8 X 5 ins. above ground, firmly set, plainly marked,6 grooves on E.S.& W.faces and CC on S. face . Stone mound 2 ft. base 1 ft. high S.of cor.
33.00	Spur 100 ft. above bottoms projects. S.

Retracement of S.Line of 2nd.Standard N.Through R.5 E.

Chains.	
40.19	Fall 12 lks.N. of standard cor.of T.9 N.Rs.5 & 6 E. which is a limestone 5 X 6 X 12 ins. loosly set in a stone mound, marked 6 notches on three edges . not witnessed.
	Therefore the course of this line is N.89°39'E. and distance is 40 19 chs.
	July, 23,1914, .
	- ----- ----------
	July, 24,1914,At 9 ha.m. apparent time, 1 set off 41°28' N.on the lat. arc; 19°59'N.on the decl.arc; and determin a meridian with the solar at the Standard cor.of T.9 N. Rs.5 & 6 E.
	Thence 1 retrace
	East. . on S.bdy.of sec.31,
	Descend over mts. land .
3.00	Enter bottom of "Woodruff Creek Canyon" and willows bears N.80°E.and S.80°W.
7.00	Woodruff Creek 25 lks.wide 1 ft.deep runs N.70°E.
8.00	Leave willows bears N.75°E & S75°W.
8.70	Wood road bears N.75°E. and S.75°W.
19.30	Spur 175 ft. above creek projects N.10°E.
34.00	Draw 75 ft.deep drains N.
39.52	Fall 26 lks. S. of standard ¼ sec. cor. which is a cobble stone 6 X 6 X 16 ins. above the ground, firmly set, plainly marked ¼ on N. face ,not witnessed,
	Therefore the course of this line is N.89°37'E. and distance is 39 52 chs.
	Moved to ¼ sec.cor.
	Thence 1 retrace .
	N.89°29'E. on S.bdy. of sec. 31.
	Ascend over rolling mts. land.
3.50	Point of spur 125 ft. above draw projects N.
13.75	Draw 90 ft. below spur drains N.
16.81	A hard sandstone 6 X 8 X 12 ins. above ground ,firmly set,plainly marked 6 grooves on N.E.and W?faces and

Retracement of S.Line of 2nd.Standard N.Through R.6 E.

Chains.	
	S C on E.face ,not witnessed ,bears N.6.55 chs. dist. This is evidently the cor.set by Deputy J.H.Martineau for the standard cor. of T.9 N.Rs.5 & 6 E.
20.75	Spur 100 ft. above draw projects N.
29.00	Draw 200 ft. below spur drains.N.
38.29	Fall 51 lks.N.of cor.of secs.31 & 32,which is a quartz stone 6 X 8 X 12 ins. loosly set in a stone mound, plainly marked 1 groove on W.5 grooves on E.and 6 grooves on N. faces ,not witnessed , Therefore the course of this line is S.89°45'E. and distance is 38.29.chs,.

July, 24. 1914.

Retracement of N.Line of 2nd.Standard Through R.5 E.

Chains. July,24,1914, From the standard cor.of T.9 N.Rs.5 & 6 E hereto fore described . On N.line of 2nd.Standard.

1 retrace .

S.89°29'W. on S. bdy..of sec. 36.

40.68 Fall 7 lks. N. of standard ¼ sec. cor. which is a hard sand stone 5 X 8 X 12 ins. loosly set in a stone mound, plainly marked ¼ on N. face.not witnessed ,

Therefore the course of this line is S.89°23'W.and dist. is 40 68 chs.

Moved to ¼ sec. cor.

Thence 1 retrace

S.89°29'W. on S. bdy.of sec.36.

39.72 Fall 6.2 lks. S. of S.C.of secs. 35 and 36 ,which is a hard sand stone 5 X 10 X 6 ins. loosly set, in a stone mound,plainly marked ,5 grooves on W.face and 1 groove on E. face ,not witnessed ,

Therefore the course of this line is N.89°37'W.and distance is 39 72 chs.

July, 24. At this cor 1 set off 19°57'N.on the decl.arc; and at 12 m.apparent time ,observe the sun on the meridian the resulting lat. is 41°27' or within 1'of the proper lat.

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From the standard cor. of secs. 35 & 36,

1 retrace .

S.89°29'W. on S.bdy. of sec. 35 .

40.20 Fall 1.9 lks.S.of standard ¼ sec. cor. which is a sandstone 5 X 6 X 12 ins. loosly set in a stone mound ,plainly marked ¼ on N. face ,not witnessed .

Therefore the course of this line is S.89°45'W.and distance is 40 20 chs.

Moved to ¼ sec.cor.

Thence 1 retrace

S.89°29'W.on S.bdy. of sec. 35,

40.15 Fall 1.2 lks. S.of S.C.of cor. of secs. 34 and 35 ,which is a quartz stone 7 X 9 X 15 ins, loosly set in a stone

Chains.	
	mound ,plainly marked 2 grooves on E.and 4 grooves on W.faces, not witnessed ,
	Therefore the course of this line is S.89°39'W. and distance is 40.15.chs.

	From the standard cor. of secs.34 and 35.
	1 retrace
	S.89°29'W. on S.bdy .of sec. 34.
40.00	After careful search find no trace of standard ¼ sec.cor.
79.82	Fall 26 lks. S.of standard cor .of secs. 33 and 34, which is a sandstone 6 X IO X I4 ins, loosly set in a small stone mound, plainly marked 3 notches on E.and W. edges 6 notches on N. edge and S C on NE.face ,not witnessed ,
	Therefore the course of this line is S.89°40'W.and distance is 79 82 chs.
	July, 24, 1914.

	July 25, 1914, From the standard cor.of secs. 33 & 34.
	1 retrace ,
	S.89°29'W. on S. bdy. of sec. 33.
40.05	Fall 36 lks. S.of standard ¼ sec. cor. which is a sandstone 4 X IO X 8 ins.loosly set in a stone mound,plainly marked ¼ on N. face ,not witnessed .
	Therefore the course of this line is West and distance is 40.05 chs.
	Moved to ¼ sec. cor.
	Thence 1 retrace
	S.89°29'W. on S.bdy.of sec. 33,
40.55	Fall 31 lks. S. of standard cor. of secs.32 & 33 ,which is a sandstone 2 X 24 X 24 ins. loosly set in a stone mound, dimly marked 4 notches on E.and 2 notches on W. edges ,not witnessed ,
	Therefore the course of this line is S.89°55'W. and distance is 40.55 chs.

	From the standard cor. of secs. 32 and 33,

Retracement of N.Line of 2nd.Standard N.Through R.5 E.

Chains.	
	I retrace .
	S.89°29'W. on S.bdy. of sec. 32.
40 35	Fall 36 lks. S. of standard ¼ sec.cor. which is a sandstone 7 X 8 X 13 ins. loosly set in a small stone mound, plainly marked ¼ on N. face not witnessed .
	Therefore the course of this line is West and distance is 40 35 chs.
	Moved to ¼ sec. cor.
	July,25, At this standard ¼ sec. cor. I set off 19°44'N. on the decl. arc; and at 12 m. apparent time ,observe the sun on the meridian ; the resulting lat. is 41°28'N.
	Thence I retrace
	S.89°29'W. on S.bdy. of sec. 32.
40 44	Fall 12 lks. S. of standard cor. of secs. 31 and 32, which is a sandstone 4 X 6 X 12 ins. above ground, loosly set, plainly marked 1 groove on W. & 5 grooves on E. faces, not witnessed ,
	Therefore the course of this line is S.89°39'W. and distance is 40 44 chs.

	July ,25 , 1914, At 2 h .p.m.,apparent time ,I set off 41°28'N. on the lat. arc; 19°43'N. on the decl. arc;and determine a meridian with the solar at the standard cor of secs. 31 and 32.
	Thence I retrace
	S.89°29'W. on S.bdy. of sec. 31 .
40 11	Fall 40 lks. S. of standard ¼ sec. cor. which is a sandstone 6 X 8 X 10 ins. loosly set in a stone mound, plainly marked ¼ on N. face . not witnessed.
	Therefore the course of this line is N.89°57'W. and distance is 40 11 chs.
	Moved to ¼ sec .cor.
	Thence I retrace
	S.89°29'W. on S.bdy. of sec. 31.
27 00	Reported distance make careful search but find no trace of standard cor. of T.9 N.Rs.4 and 5 E.
	Set temp. point. July, 25,1914 .

Chains.	
	July, 30, 1914, At 8 h.a.m. apparent time, I set off 41° 28'N. on the lat. arc; and 18°39'N. on the decl. arc; and determine a meridian with the solar at the temp. transit point left by me on July, 25th. for temp. cor. of T. 9 N. Rs. 4 and 5 E.
	Thence I retrace
	West on S. bdy. of sec. 36.
53.25	Fall 67 lks. N. of standard ¼ sec. cor. which is a sandstone 6 X 12 X 6 ins. above ground, firmly set, plainly marked ¼ S C on N. face, not witnessed,
	Therefore the course of this line from the ¼ sec. cor. on S. bdy. of sec. 31 to the standard ¼ sec. cor. just described is S. 89°21'W. and distance is 80.25 chs.
	Moved to ¼ sec. cor.
	Thence I retrace
	West on S. bdy. of sec. 36.
40.00	After careful search find no trace of standard cor. for secs. 35 and 36.
	From this point
	I retrace
	West on S. bdy. of sec. 35,
40.00	After careful search find no trace of standard ¼ sec. cor. The sky is partly overcast and further solar observations are impossible.
80.83	Fall I 20 chs. N. of an old post greatly decayed, no marks visible, from which
	An aspen tree 8 ins. diam. bears N. 10°40'E. 19 lks. dist. marked 35 B T, other marks to much blurred to read.
	An aspen tree 14 ins. diam. bears S. 67°10' W. 52 lks. dist. marked T 8 N R 4 E S3 B T:
	Therefore the course of this line from the ¼ sec. cor. on S. bdy. of sec. 36 to this old post which is probably the cor. for secs. 34 and 35, is S. 89°26'W. and distance is 120.84 chs.
	July, 30, 1914.

Retracement of N. Line of 2nd. Standard N. Through R.4 E.

Chains.	
	July ,31, At 9 a.m. ,apparent time, I set off 41°28'N. on the lat. arc; 18°23'N. on the decl. arc; and determine a meridian with the solar at the standard cor. of secs. 34 and 35,
	Thence I retrace
	West on S. bdy. of sec. 34.
40·14	Intersect standard ¼ sec. cor. which is a limestone 8 X 8 X 16 ins. firmly set in a stone mound, plainly marked ¼ S C on N. face ,stone mound 3 ft. base 1½ ft. high N. of cor.
	Therefore the course of this line is west and distance is 40·14 chs.
	Begin at ½ sec. cor.
	Thence I retrace
	West on S. bdy. of sec. 34,
40.05	Fall 35 lks. N. of standard cor. of secs .33 & 34, which isa conglomerate stone IO X 12 X 16 ins. above ground, firmly set, and surrounded with stones. plainly marked 3 notches on E. & W. edges ,from which
	An aspen tree 10 ins. diam. bears S. 40°E. 38 lks. dist. marked T 8 N R (a blurred place where 4 should have been E (the S 3 B T is blurred)
	An aspen tree 12 ins. diam. bears N. 70°W. 91 lks. dist. dimly marked T 9(then some marks too dim to read)S 33,
	Therefore the course of this line is S. 89°30'W. and distance is 40·05 chs.
	July, 31 ,At this cor. I set off 18°21'N. on the decl. ar and at 12 m. apparent time , observe the sun on the merid the resulting lat. is 41° 28'

	From the standard cor. of secs. 33 and 34,
	I retrace
	West on S. bdy. of sec. 33,
22.58	Fall 7 lks. S. of a small (X)cross on a limestone out-cropping , continued on same line
40.28	Fall II lks. N. of standard ¼ sec. cor. which is a lime stone 3 X IO X 12 ins. loosly set in a stone mound,

Chains. plainly marked ¼ S C on N. face ,not witnessed ,
Therefore the course of this line is S.89°51'W. and
distance is 40.28 chs.
Moved to ¼ sec. cor.
Thence 1 retrace
West on S. bdy. of sec. 33.
40.27 Intersect standard cor. of secs. 32 & 33, which is a
sandstone 6 x 6 x 6 ins. above ground, loosly set ,diml y
marked 2 notches on W. and 4 notches on E. edges .
from which
A pine 12 ins. diam. bears S.57°E.36 lks. dist.
marked T.8 N.R.4 E. S (other marks too dim to read)
A balsam 18 ins. diam. bears S.78°W.68 lks. dist.
marked T 8 N R 4 E S 5 B T .
A pine 24 ins. diam. bears N.26°W.32 lks. dist.
blazed but not marked .
Therefore the course of this line is west and distance
is 40.27 chs.

July, 31,1914,

August,1,1914. From the standard cor. of secs.32 & 33.
1 retrace
West on S. bdy. of sec. 32.
40.00 After careful search find no trace of standard ¼ sec. cor.
At this point ,1 set off 41°28' on the lat. arc; 18°08'N.
on the decl. arc; and at 10 h.a.m. apparent time, determine
a meridian with the solar.
Thence 1 retrace
West on S. bdy. of sec. 32.
40.00 After careful search find no trace of standard cor. of
secs. 31 & 32. Left point for temp. cor. of S.C. of secs. 31 & 32
August,1,1914, At this point, 1 set off 18°07'N. on the
decl. arc; and at 12,m. apperent time, observe the sun on
the meridian the resulting lat. is 41°27', or within 1'
of the proper lat.

Chains.	
	From transit point left for temp.point for standard cor. of secs. 31 & 32.
	I retrace
	West on S. bdy .of sec.31.
40.00	After careful search find no trace of standard ¼ sec.cor.
79.70	Fall 84 lks.S.of a pile of stones from which
	A pine 10 ins diam. bears N.30°E.72 lks. dist.
	blazed but cannot read the marks.
	A pine 24 ins. diam. bears S.16°W.23 lks. dist.
	marked T 8 N R 3 E S 1 B T .
	A pine 14 ins. diam. bears N. 43°W.93 lks. dist.
	marked T 9 N R 3 E S 36 B T .
	Note:In searching for the cor.find a limestone 9 X 11 x 19 ins.lying loose on face of hill about 75 lks.below stone pile . This stone is plainly marked 6 notches on 3 edges. I therefore conclude that the cor. stone has rolled down the hill and that the stone pile is the true position for the standard cor. of T.9 N.Rs.3 & 4 E.
	Where I reset the stone found.
	Therefore the course of this line from the standard cor. of secs.32 & 33,to the standard cor.of T.9 N.R.3 & 4 E. is N.89°42'W.and distance is 159.70 chs.
	August.1,1914,

August,3,1914.At 9 a.m.,apparent time, I set off 41°28' on the lat. arc;17°38'N.on the decl.arc; and determine a meridian with the solar at the standard cor. of T.9 N.R.3 & 4 E.

	Thence I retrace
	West on S.bdy.of sec.36.
7.90	After careful search find no trace of CC.of T.8 N.R.3 & 4 E.
23.85	The cor. accepted as the CC.for T.8 N.Rs.3 & 4E.set by Deputy Hansonunder his rejected contract No.231 bears S.9.76 chs. dist.
40.00	After careful search find no trace of standard ¼ sec.cor.

Retracement of N. Line of 2nd. Standard N. Through R 3 E.

Chains.	
80 00	After careful search find no trace of standard cor. of secs. 35 & 36. Left temp. point.
	August.3, At this point, I set off 17°36'N. on the decl. arc; and at 12 m. apparent time observe the sun on the meridian; the resulting lat. is 41°28'

	Form this point (Temp. point for standard cor. of secs 35 and 36.
	I retrace
	West on S. bdy. of sec. 35.
40 00	Find no trace of standard ¼ sec. cor.
78 80	Fall 79 lks. S. of standard cor. of secs. 34 & 35, which is a sandstone 6 X 8 X 16 ins. firmly set in a stone mound, plainly marked 2 grooves on E. and 4 grooves on W. and S C on N. faces. stone mound 2 ft. base 2 ft. high N. of cor.
	Therefore, the course of this line from the standard cor. of T. 9 N. Rs. 3 & 4 E. to standard cor. of secs. 34 & 35 is N. 89°43' W. and distance is 158.80 chs.
	August, 3, 1914,
	--- --- --- ---
	Retracement of Subdivision in T. 9 N. R. 3 E.

	August, 3 1914, From the standard cor. of secs. 34 and 35 here-to-fore described.
	I retrace N. bet. secs. 34 and 35.
	Descend gently over rolling stony land.
38.20	Dim wood road bears N. 45° W. and S. 45° E.
37.45	Fall 2.08 chs. W. of ¼ sec. cor. which is a hard sand boulder 6 X 10 X 12 ins. above ground, firmly set, plainly marked ¼ on W face, not witnessed,
	Therefore the course of this line is N. 3°11' E. and dist. is 37.51 chs.
	Moved to ¼ sec. cor.
	Thence I retrace
	North bet. secs. 34 and 35.

Chains.	
38.55	Skunk Creek 4 lks. wide 2 ins. deep, runs W.
43.77	Fall 59 lks. E. of cor. of secs. 26,27,34 and 35, which is a sandstone 6 x 8 x 12 ins. above ground, firmly set,plainly marked ,1 notch on S. and 2 notches on E. edges , not witnessed .
	Therefore the course of this line is N.0°46'W. and dist. is 43.77 chs.
	August ,3,1914,

	Retracement of Part of W. bdy. of T.9 N.R.4 E.

	August. 5, 1914, At7,a.m. ,apparent time, I set off 41º 28' N. on the lat. arc; 17°08'N. on the decl.arc; and determine a meridian with the solar at the standard cor. of Tp. 9 N.Rs. 3 & 4 E. here to fore described.
	Thence I run
	North on a retracement line bet. secs.31 and 36.
	Descend over stony mts. land through scattering pine timber.
4.00	Leave scattering pine enter aspen timber bears E. andW.
7.80	Draw 200 ft. below Tp.cor. drains N.40ºW.
24.00	Leave aspen timber bears W. and E.
27.00	Spur 150 ft. above draw projects N.75°W.
39.50	Draw 170 ft. below spur drains N.80°W.
39.80	Fall 18 lks. W.of ¼ sec. cor. which is a limestone 17 x 10 X 8 ins above ground, loosly set in a stone mound dimly marked ¼ on W. face ,stone mound 2 ft.base 1½ft. high W. of cor.
	Therefore the course of this line is N.0°16'E. and dist is 39.80 chs.
	Moved to ¼ sec. cor.
	Thence I retrace
	North bet. secs. 31 and 36.
	Ascend abruptly over stony mts. land,
5.00	Enter scattering pine timber bears N.45°W. and S.45°E.
11.00	Leave timber bears N.45°W. and S.45°E.

Chains.	
20.50	Spur 325 ft. above ¼ sec .cor. projects N.80°W.
34.60	Draw 125 ft. below spur drains N.80°W.
35.00	Enter scrubby mahogany timber bears E. and W.
39.16	Fall 83 lks. W. of cor. of secs. 25,30,31 and 36.
	which is a limestone 12 x 8 x 6 ins .above ground,
	firmly set, and plainly marked 5 notches on N. and 1
	notch on S. edges from which
	A mahogany 8 ins. diam. bears S.80°E. 15 lks. dist.
	marked T 9 N R 4 E S 31
	After careful search find no other witnesses .
	I raise a mound of stone 2 ft. abse 1½ ft. high W. of cor.
	Therefore the course of this line is N.1°13'E. and dist.
	is 39.17 chs.
	August, 5,1914.

August,4,1914, At 7 a.m. apparent time, I set off 41°28' on the lat. arc; 17°24'N. on the decl. arc; and determine a meridian with the solar at the temp. point for standard cor. of secs. 31 & 32. on N. line of 2nd. Standard Parallel N.R.4 E.

Thence I retrace

North bet. secs. 31 and 32.

Ascend gently along E. slope through aspen timber.

4.00	Leave aspen timber bears E. and W.
15.00	Spur 35 ft. above temp. cor. point projects N.75°E.
	also enter aspen timber bears N.75°E. and S.75°W.
25.20	Leave aspen timber bears N.30°E. and S.30°W.
35.00	Draw 75 ft. below spur drains N.30°E.
40.00	After careful search find no trace of ¼ sec .cor.
41.70	Enter aspen timber bears N.40°E. and S.40°W.
48.00	Spur 50 ft. above draw projects E . also leave aspen
	timber bears E. and W.
71.30	Draw 275 ft. below spur drains N.45°W.
75.00	Enter burned pine timber bears N.45°W. and S.45°E.
80.00	After careful search find no trace of cor. of secs.
	29,30,31 and 32.

Chains.	
	From the standard cor. of secs.32 and 33 ,on N. line of 2nd. Standard Parallel N.
	1 retrace North bet. secs. 32 and 33,
	Ascend gently through pine timber . .
5.00	Point of spur 50ft .above sec.cor. projects N.45°W.
27.00	Leave pine timber bears N.45°E. and S.45°W.
31.00	Draw 100 ft. below point of spur drains N.30°E.
36.40	Low spur 50 ft. above draw projects N.60°E .
40.00	After careful search find no trace of ¼ sec. cor.
48.00	Enter scattering pine and aspen timber bears E. and W.
57.70	Small draw 60 ft. below spur drains N.70°E.
62.70	Spur 35 ft. above draw projects E. also leave timber bears E. and W.
76.00	Canyon 175 ft. below spur drains N.60°W.
80.00	After careful search find no trace of cor. of secs. 28,29,32 and 33.
	August, 4,1914.

	For further proof of the proper line of the two Stand
	August, 25,1914, At 2,p.m. apparent time, 1 set off 41
	28' on the lat. arc; 10°51' N. on the decl.arc; and determine a meridian with the solar at the Standard cor.of secs. 32 and 33 on S.line of 2nd. Standard Parallel N.
	Thence 1 retrace N. bet. secs. 32 and 33.
	Ascend gently along W.slope through scattering aspen. timber . . . . .
26.00	Enter dense underbrush and thich aspen timber.bears N.25°W. and S.25°E.
35.00	Spur on W. slope 90 ft. above cor. projects W.
40.00	After careful search find no trace of ¼ sec. cor.
51.57	Draw 50 ft. below spur drains W.
61.70	Spur 60 ft. above draw projects W.
71.00	Leave aspen timber and underbrush bears N.60°E. and S. 60°W.
80.00	After careful search find no trace of cor.of secs.28,2
	August,25,1914.

Chains. August, 24,1914, At 10 ,a.m. apparent time, I set off 41°28'N. on the lat. arc; 11°15; N. on the decl. arc; and determine a meridian with the solar at the standard cor. of secs.33 and 34, on S.line of 2nd. Standard Parallel N.

Thence I retrace N. bet. secs.33 and 34.

Ascend gently through aspen and pine timber.

7.50 Ridge 50 ft. above cor . bears E.and W.

11.00 Road Ogden to Woodruff bears N.80°E. and S.80°W.

40.00 After careful search find no trace of ¼ sec. cor.

65.00 Leave timber bears N.80°E.and S.80°W.

75.00 Draw 125 ft. below ridge drains S.80°W.

80.00 After careful search find no trace of cor. of secs. 27, 28,33 and 34.

August,24,1914, At the Standard cor. of sec.33 and 34, on N.line of 2nd.Standard Parallel N. I set off 11°13'N. on the decl.arc;and at 12 m.apparent time, observe the sun on the meridian the resulting lat.is 41° 28'.

Thence I retrace North bet. secs. 33 and 34.

Ascend gently through aspen timber .

37.00 Ridge 100 ft. above sec.cor. bears N.20°E.and S.20°W.

40.00 After careful search find no trace of ¼ sec .cor.

78.00 Enter scattering pine among aspen timber bears E. and W.

85.88 Intersect cor. of secs.27,28,33 and 34.which is a sandstone boulder 10 x 14x 16 ins. above ground, firmly set plainly marked ,1 notch on S. and 3 notches on E.edges. not witnessed ,

I mark trees as follows

An aspen 10 ins. diam.bears N.40°E. 1.25 chs. di st. marked T 9 N R 4 E S 27 B T .

An aspen 10 ins. diam. bears S.40°E. 1.59 chs. dist. marked T 9 N R 4 E S 34 B T .

An aspen 6 ins. diam.bears S.51°30'W.38 lks. dist. marked T 9 N R 4 E S 33 B T .

An aspen 6 ins. diam. bears N.31°W. 7 lks. dist.

Chains.

marked T 9 N R 4 E S 28 B T .

Therefore the course of this line is N. and distance is 85.88 chs.

August, 24, 1914,

August, 25,1914, At 10,a.m. ,apparent time, I set off 41°28'N. on the lat. arc; 10°54'N. on the decl.arc; and determine a meridian with the solar at the standard cor of secs .35 and 36. on S. line of 2nd. Standard Parallel N.

Thence I retrace North bet. sess. 35 and 36.

Ascend gently over rolling mountainous land .

2.50 Enter aspen timber bears E. and W.

4.00 Leave same bears E. and W.

6.00 Spur 45 ft. above sec. cor. Projects S.85°E.

7.00 Enter pine and scattering aspen timber bears E. and W.

8.00 Leave same bears E. and W.

11.50 Draw 55 ft. below spur drains S.85°E. 5 chs. them N.85°I

31.00 Enter scrubby aspen timber and chokecherry underbrush bears N.80°W & S.80°E.

40.00 Top of spur 250 ft. above draw projects E.

After careful search find no trace of ¼ sec. cor.

80.00 After careful search find no trace of cor. of secs. 25 26,35 and 36.

August,25, 1914.

Note ; For retracements in T.9 N.R.5 E. see Group No.3

From the retracements I have now made I am of the opinion that the N. line of the two Second Standard Parallels.N. is the proper line and therefore close the Boundaries and Subdivisions of T.8 N.R.4 E. on this line. And destroy all marks on the Standard sec.a ¼ sec.cors. found on the S. line but leave them standi as witness points.

August, 25 1914.

Chains.

August, 5, 1914, At the standard cor. of T.9 N. Rs.3 & 4 E. here-to-fore described, I set off 17°04'N. on the decl. arc; and at 12 m. apparent time, observe the sun on the meridian; .; the rsulting lat. 41°28'.

Thence I run

S.89°42'E., on a resurvey line on the S. bdy. of sec. 31.

Ascend over mountainous land through scattering pine timber.

3.20 Spur 65 ft. above Tr. cor. projects N.30°W. also leave pine timber bears N. and S.

10.70 Draw 50 ft. below spur drains N.45°W.

26.90 Enter thick willows and scrubby aspen timber bears N.45°W. and S.45°E.

33.70 Spur 125 ft above draw projects N.20°W. leave underbrush.

39.92½ Set an iron post, 3 ft. long, 1 in. in dia. 24 ins. in the ground, for standard ¼ sec. cor., with brass cap marked

S ¼ 31

1914

from which an aspen 5 ins. diam. bears N.50°W. 53 lks. dist. marked ¼ S 31 B T.

40.20 Draw 135 ft. below spur drains N.20°W.

41.00 Enter scattering pine among aspen timber bears N.30°W. and S.30°E.

43.00 Leave timber bears N.45°W. and S.45°E.

66.50 Spur 410 ft. above draw projects N.10°W.

71.00 Enter aspen timber bears N. and S.

79.85 Set an iron post, 3 ft. long. 3 ins. in dia. 24 ins. in the ground, for standard cor. of secs. 31 and 32. with brass cap marked

T 9 N	R 4 E
S 31	S 32

1914

from which

An aspen 12 ins: diam. bears N.69°30'E. 75 lks. dist.

Chains.	
	marked T 9 N R 4 E S 32 B T .
	An aspen 6 ins. diam. bears N.44°W. 12 lks.dist.
	marked T 9 N R 4 E S 31 B T .
	Land, mountainous.
	Soil, brown sandy loam,on ridges ,slightly washed on slopes and in draws , with some stones and gravel, underlayed with clay and limestone .
	Timber, aspen and pine,underbrush willows and scrubby aspens.
	Mountainous or timbered land , 79.85 chs.

	S.89°42'E. on a resurvey line on the S. bdy. of sec.32.
	Descend over rolling mountainous land through aspen timber.
17.00	Leave timber bears N and S.
24.00	Draw 210 ft. below sec. cor. drains N.
39.92½	Set an iron post, 3 ft.long.1 in.in dia. 24 ins. in the ground, for standard ¼ sec.cor. with brass cap marked
	S ¼ 32 / 1914
	from which
	An aspen 8 ins. diam. bears N.4°45'W.97 lks. dist.
	marked ¼ S 32 B T .
41.00	Enter scattering aspen timber bears N.45°W. and S.45°E.
43.00	Leave aspen timber bears N.and S.
47.15	Road "Barney Dugway" Ogden to Woodruff bears N.30°E. and S.30°W.
55.00	Enter aspen timber bears N.10°E. and S.10°W.
64.00	Leave same bears N. and S.
64.50	Road Ogden to Woodruff bears N. and S.
72.50	Spur 300 ft. above ¼ sec. cor. projects N. 20°W.
75.00	Enter scattering pine timber . bears N. and S.
79.00	Draw 75 ft. below spur drains N. heads S.80°E.
79.85	The standard cor. of secs.32 and 33 here-to-fore described. I re-establish cor. at same point as follows.

Chains.

Set an iron post, 3 ft. long, 3 ins. in dia. 24 ins. in the ground, for standard cor. of secs. 32 and 33. with brass cap marked

T 9 N | R 4 E
S 32 | S 33

1914

from which

A pine 8 ins. diam. bears N.33°30'E. 83 lks. dist. marked T 9 N R 4 E S 33 B T .

A pine 12 ins. diam. bears S.57°E. 36 lks. dist. already marked (marks very old) T 8 N R 4 E S and as these old marks might be damaged by adding the No. of the sec. and B T . I leave the original marks.

A balsam 18 ins. diam. bears S.78°W. 68 lks. dist. already marked T 8 N R 4 E S 5 B T .

A pine 2 ft. in dia. bears N.26°W. 32 lks. dist. which I mark T 9 N R 4 E S 32 B T .

The old stone cor. is buried alongside the new cor.

Land , mountainous.

Soil, good brown sandy loam, 10 to 20 ins. deep, slightly washed on slopes ,with some stones , underlaid with clay and limestone .

Timber aspen and pine.

Mountainous or timbered land 79,85 chs.

August, 5, 1914.

August, 9,1914, At 8 a.m. apparent time, I set off 41°28' on the lat. arc; 16°01'N. on the decl. arc; and determine a meridian with the solar at the standard cor. of secs. 32 and 33.

Thence I run.

East on a resurvey line on S. bdy. of sec. 33

Ascend over mountainous land through pine timber.

10.00 Leave pine enter aspen timber bears N. and S.

15.00 Spur 65 ft. above sec. cor. projects N.

17.00 Leave aspen enter pine timber bears N. and S.

TRANSCRIBED COPY OF ORIGINAL FIELD NOTES

Chains.	
30.00	Head of draw 75 ft. below spur drains N.
33.40	Road Ogden to Woodruff bears N.75°E. and S.75°W.
34.00	Leave pine timber bears N.45°W.& S.45°E.
40.27	The standard ¼ sec.cor. her-to-fore described which I witness as follows.
	raise a mound of stone 2½ ft. abse 2 ft.high N.of cor.
	From this ¼ sec.cor.
	I run.
	N.89°51'E.on a resurvey line on S. bdy. of sec. 33.
	Ascend gently along N.slope of ridge over mountainous land.
10.00	Spur 50 ft. above ¼ sec. cor. projects N.
14.00	Enter aspen and pine timber bears N.80°W.and S.80°E.
17.70	A small (+)cross on a limestone ledge bears N.1 lk.
25.00	Head of draw 50 ft. below spur drains N.50°W.
34.00	Leave pine continue in aspen timber bears N.and S.
35.00	Ridge 40. ft.above draw bears N. and S.
40.28	The standard cor. of secs. 33 and 34. here-to-fore described .
	Land, mountainous.
	Soil, good brown sandy loam, 4 to 16 ins. deep, underlaid with clay and limestone .
	Timber, aspen and pine.
	Mountainous or timbered land, 80.55 chs.

	From standard cor of secs.33 and 34.
	I run
	N.89°30'E. on a resurvey line on S. bdy. of sec. 34.
	Descend over mountainous land through aspen timber.
19.50	Draw 275 ft. below sec. cor. drains N.45°E.
21.00	Leave aspen enter scattering pine timber bears N.and S
26.00	Spur 40 ft. above draw projects N.45°E.
29.00	Leave pine enter aspen timber bears N50°W. and S.50°
32.80	Draw 75 ft. below spur drains S.75°E.10.00 chs. then S.25°E. also leave aspen timber bears N.60°W.&S.60°E.
39.00	Enter scattering scrubby mahogany timber bears N.& S

hains.	
39.75	Leave same bears N.45°W. and S.45°E.
40.05	The standard ¼ sec. cor. here-to-fore described .
	From this ¼ sec. cor.
	I run
	East on a resurvey line on S.bdy. of sec. 34.
	Ascend over mountainous land .
1.00	Enter scattering pine timber bears N.65°W.& S.65°E.
1.20	Point of limestone spur 30 ft. above ¼ sec. cor. projects. S.30°E.
3.00	Leave pine timber bears N. and S.
8.50	Draw 65 ft. below spur drains S. also enter aspen timber and chokecherry underbrush.bears N.10°W.and S.10°E.
28.50	Spur 125 ft. above draw projects S.60°E.
40.14	The standard cor. of secs:34 and 35, here-to-fore described .I re-establish the cor. at same point as follows Set an iron post, 3 ft.long, 3 ins. in dia. 24 ins. in the ground for standard cor. of secs. 34 and 35, with brass cap marked

T 9 N | R 4 E
S 34 | S 35

1914

from which

An aspen 8 ins. diam. bears N.10°40'E.19 lks. dist. marked T 9 N R 4 E S 35 B T .

An aspen 14 ins. diam. bears S.67°10'W.52 lks. dist. marked T.8 N R 4 E S 3 B T (These marks are very old)

An aspen 8 ins. diam. bears N. 29°W. 20 lks.dist. marked T 9 N R 4 E S 34 B T .

Land , mountainous,

Soil, sandy loam, medium texture ,moist,underlaid with clay and limestone.

Timber aspen and pine . underbrush chokecherry,

Mountainous or timbered land .80.19 chs.

August,9,1914.

At this cor. I set off 15°57'N. on the decl arc; and at 12 m, apparent time, observe the sun on the meridian the resulting lat.is 41°28' .

Resurvey of Second Standard Parallel N. Through R.4 E.

Chains.	
	From standard cor. of secs . 34 and 35.
	1 run
	N.89°26'E. on a resurvey line on S. bdy. of sec. 35.
	Descend gently over rolling mountainous land through aspen timber and chokecherry underbrush .
12.00	Draw 45 ft. below sec. cor. drains S. also leave underbrush bears N. and S.
30.00	Spur 60 ft. above draw projects S.80°E.
31.00	Leave aspen timber bears N.60°E. and S.60°W.
40.28	Set an iron post, 3 ft. long, 1 in. in dia. 24 ins. in the ground, for, standard ¼ sec. cor. with brass cap marked

S 35
¼
1914

from which

An aspen 8 ins. diam. bears N.18°05'W. 3.43 chs. dist. marked ¼ S 35 B T .

This cor. falls in a smooth hollow which heads N.60°W drains N.85°E.

46.90	Wood road bears N.20°E. and S. 20°W.
47.50	Enter scattering aspen timber bears N.75°E. & S.75°W.
65.00	Spur 75 ft. above ¼ sec. cor. projects N.
80.56	Set an iron post, 3 ft. long, 3 ins. in dia. 24 ins. in the ground for standard cor. of secs. 35 and 36, with brass cap marked

T 9 N	R 4 E
S 35	S 36

1914

from which

An aspen 6 ins. diam. bears N.81°E. 22 lks. dist. marked T 9 N R 4 E S 36 B T.

An aspen 8 ins. diam. bears N.72°W.8 lks. dist. marked T 9 N R 4 E S 35 B T .

Land, mountainous.

Soil, brown sandy loam , 5 to 20 ins. deep, medium texture , moist, underlaid with clay and sandstone.

Chains.

Timber ,aspen..undergrowth chokecherry.

Mountainous or timbered land 80.56 chs.

From standard cor. of secs. 35 and 36.

I run

N.89°26'W. on a resurvey line on S.bdy. of sec. 36.

Descend gently along N. slope through aspen timber.

3.30 Small draw 35 ft. below sec.cor . drains N.20°W.

4.00 Leave aspen timber bears N. and S.

5.70 Spur 30 ft. above draw projects N.

12.00 Enter aspen timber bears N.10°W. and S.10°E. 6.00 chs.

then S.60°W.

34.50 Begin abrupt descent bears N.20°W. and S.20°E.

40.28 The standard ¼ sec. cor. here-to-fore described .

In order to perpetuate t is cor.I reestablish it as follows.

Set an iron post,3 ft long, 1 in. in dia. 24 ins. in the ground, for standard ¼ sec. cor. along side of the old cor, with brass cap marked

S 36

1914

from which

An aspen 8 ins. diam. bears N.30°W.68 lks. dist.

marked ¼ S 36 B T .

August, 9,1914,

August,25,1914.

Note: From the topography it is evident that the standard cor. on T.9 N.Rs. 4 & 5 E. was not set at the reported distance I restore the cor. as follows .

From the temp.point left 27.00 chs . S.89°29'W. of the standard ¼ sec. cor. on S. bdy. of sec. 31. T 9 N.R.5 E.

Thence I retrace .

North bet. secs. 31 and 36.

40.57 Fall 12. 78 chs. E. of ¼ sec. cor. which is a limestone 4 X 12 X 16 ins. above ground, firmly set, plainly marked ¼ on W. face ,surrounded with stones.

August ,25, 1914,. At this cor. I set off 10°52'N.on the

Chains. decl.arc; and at 12 m,apparent time , observe the sun on the meridian ; the resulting lat. is 41°28'.

Thence 1 run.

North on a retracement line bet. secs. 31 and 36.

40.94 Fall 39 lks. W.of cor. of secs. 25,30,31 and 36,which is a sandstone 10 X 16 X 20 ins. above ground, loosly set, plainly marked 1 notch on N. and 5 notches on S. edges. not witnessed .

Therefore the course of this line is N.0°33'E.and dist. is 40.94 chs.

From the ¼ sec. cor. bet. secs.31.and 36.

1 run South .

40.69 Fall 12.78 chs. S.89°29'W.of the temp.point left 27.00 chs.S.89°29'W. of the standard ¼ sec. cor. on S.bdy.of sec. 31.

Now from retracements 1 can see that a line extended E. from the standard ¼ cor. on S.bdy. of sec.36,T.9.N.R.4 E will fall 55 lks. S. of the point of intersection of of the lines extended S.from the ¼ sec. cor. on W.bdy. of sec. 31 and S.89°29'W. from standard ¼ sec. cor. on S. bdy. of sec. 31.

Therefore at a point 27½ lks. S. of the intersection of the S. & W. bdys. of sec.31,T.9 N.R.5 E.

Set an iron post ,3 ft.long, 3 ins. in dia. 24 ins. in the ground, for standard cor. of T.9 N.Rs 4 & 5E.with brass cap marked

T 9 N
R 4 E | R 5 E
S 36 | S 31

1914

from which.

An aspen 5 ins. diam. bears N.55°E.90 lks. dist. marked T 9 N R 5 E.S 31 B T ..

An aspen 5 ins. diam. bears N.41°30'W.65.lks. dist. marked T 9 N R 4 E S 36 B T ..

Therefore the course of the line from the standard ¼ sec. cor. on S. bdy of sec.36.T 9 N R.4 E. to the restored standa

Chains. cor. of T. 9 N. Rs. 4 & 5 E. is N. 89°36'E. and dist. is 40.47 chs.

And the course from the standard ¼ sec. cor. on S. bdy. of sec. 31, T. 9 N. R. 5 E. to the restored standard cor. of T. 9 N. Rs. 4 & 5 E. is S. 89°05'W. and dist. is 39.78 chs. and the course of the line from the ¼ sec. cor. on W. bdy. of sec. 31. T. 9 N. R. 5 E. to the restored standard cor. of T. 9 N. Rs. 4 & 5 E. is South and dist. is 40.96 chs.

August, 25, 1914, From the standard ¼ sec. cor. on S. bdy. of sec. 36. T. 9 N. R. 4 E.

I run

N. 89°36'E. on a resurvey line on S. bdy. of sec. 36.

Descend gently through scattering aspen timber.

1.10 Hollow 45 ft. below ¼ sec. cor. drains S. 80°E.

2.00 Road in hollow bears N. 80°W. and S. 80°E.

4.00 Leave aspen timber bears N. 45°W. and S. 45°E.

30.50 Point of spur 75 ft. above hollow projects S. 75°E.

36.00 Enter aspen timber bears N. and S.

40.47 The standard cor. of T. 9. N. Rs. 4 & 5 E.

Land rolling mountains draining south and east.

Soil, on ridges and slopes light sandy loam, with some stones and gravel, draws with good sandy loam, 4 to 20 ins. deep, medium texture, moist, underlaid with clay and sandstone.

Timber, aspen,.

From standard cor. of T. 9 N. Rs. 4 and 5 E.

I run

N. 89°05'E. on a resurvey line on S. bdy. of sec. 31.

Descend through aspen timber.

2.50 Leave aspen timber bears N. and S.

5.05 Wood road bears N. and S.

7.65 Draw 75 ft. below Tp. cor. spring branch in bottom 4 lks. wide 3 ins. deep. runs S. 5.00 chs. then S. 80°E.

7.85 Old abandoned wood road bears N. and S.

Resurvey of 2nd. Standard Parallel N. Through R 5 E.

Chains.	
22.30	Spur 65 ft. above draw projects S.
24.00	Enter scrubby aspen timber bears N. and S.
25.85	Leave same bears N. and S.
26.35	Draw 70 ft. below spur drains S.10°W.
39.78	Intersect standard ¼ sec. cor. here to fore described which I replace as follows.
	Set an iron post, 3 ft.long. 1 in.in dia. 24 ins.in the ground for standard ¼ sec. cor.along side the old cor. with brass cap marked
	S 31 / ¼ / 1914
	and raise a mound of stone 2 ft. base 1½ ft.high N.of cor.
	From this standard ¼ sec. cor. I run S.89°57'E. Ascend gently over mountainous land draining S.
3.30	Spur (Main) 30 ft. above ¼ sec. cor.projects S.
5.50	Enter scrubby aspen timber bears N. and S.
11.50	Leave same bears N. and S.
13.30	Head of draw 70 ft. below spur drains S.
30.30	Spur 25 ft. above draw projects S.
32.40	Enter aspen timber bears N.20°W.& S.20°E.
39.00	Draw 60 ft. below spur spring branch in bottom 3 lks. wide 2 ins.deep, runs S.
40.11	Intersect standard cor. of secs. 31 and 32. before described ,which I replace as follows,
	Set an iron post, 3 ft.long, 3 ins. in dia. 24 ins. in the ground, for, standard cor. of secs. 31 & 32, with brass cap marked
	T 9 N R 5 E / S 31 | S 32 / 1914
	from which
	An aspen 8 ins. diam. bears N.59°15'E.19 lks. dist. marked T 9 N R 5 E S.32 B T.
	An aspen 6 ins. diam. bears N.79°30'W.24 lks. dist.

Chains.

marked T 9 N R 5 E S 31 B T .

Land , mountainous,

Soil, on ridges and slopes clay loam with some stones and gravel, draws with clay loam, medium texture , moist underlaid with sandstone and clay.

Timber, aspen.

Mountainous or timbered land 79.89 chs.

John W. Dougall.
U.S. Surveyor.

August, 25,1914.

Sept. 13, 1914. The sky is overcast and solar abservations are impossible.

From the standard cor. of secs. 33 and 34,here to fore described ,which I replace as follows .

Set an iron post, 3 ft.long. 3 ins. diam. 24 ins. in the ground, for standard cor. of secs. 33 and 34 the old cor. is buried with the new ,with brass cap marked

T 9 N R 5 E
S 33 | S 34
1914

from which

An aspen 6 ins. diam. bears N.75°W. 1.10 chs.dist.

marked T 9 N R 5 E S 33 B T .

No other trees in limits ;

and Raise a mound of stone 3 ft. base 2 ft.high N. of cor.

Thence I run

West on a resurvey line on S. bdy. of sec. 33 .

Descend over mountainous land,

1.00 Draw 10 ft. below sec.cor. drains S.

1.10 Enter scrubby aspen timber bears N. and S.

8.00 Leave same bears N. and S.

14.50 Spur 125 ft. above sec. cor. projects S.

28.00 Draw 75 ft. below spur drains S.30 E. also enter aspen

Chains.	
	timber bears N.30°W. and S.30°E.
38.50	Leave same bears N. and S.
40.05	Intersect standard ¼ sec. cor. before described, which I replace as follows ,
	Set an iron post, 3 ft. long. 1 in. in dia. 24 ins. in the ground for standard ¼ sec. cor. with brass cap marked , (The old ¼ cor. is reset with iron post)
	S 33 / ¼ / 1914
	Trees too small to mark,
	~~and~~ raise a mound of stone 2½ ft. base 2 ft. high N. of cor.
	Thence I run
	S.89°55'W. on S. bdy. of sec. 33.
4.10	Spur 60 ft. above ¼ sec. cor. projects S.10°E.
30.00	Head of draw 75 ft. below spur drains S.
74.25	Spur 80 ft. above draw projects S.
40.55	Intersect the standard cor. of secs. 32 and 33, here to fore described which I replace as follows .
	Set an iron post, 3 ft. long, 3 ins. in dia. 24 ins. in the ground, along side the old. cor. with brass cap marked
	T 9 N R 5 E / S 32 | S 33 / 1914
	and raise a mound of stone 2½ ft. base 2 ft. high N. of cor.
	Land mountainous,
	Soil, light sandy loam , with some stones and gravel underlaid with sandstone.
	Timber ,aspen,
	Mountainous or timbered land, 80.60 chs.

	From the standard cor. of secs. 32 & 33 .
	I run

Chains.	
	West on a resurvey line on S. bdy. of sec.32.
	Descend over mountainous land ,
8.50	Enter scrubby aspen timber bears N. and S.
13.10	Draw 75 ft. below sec. cor. drains S.
25.80	Spur 90 ft. above draw projects S.also leave aspen timber bears N. and S.
40.35	Intersect standard ¼ sec. cor. here to fore described which I replace as follows .
	Set an iron post, 3 ft.long 1 in. in dia. 24 ins. in the ground, along side the old. cor.for standard ¼ sec. cor. with brass cap marked
	S 32 ¼ / 1914
	and raise a mound of stone 2 ft. base 1½ ft.high N. of cor.
	Thence I run
	S.89°39'W.on a resurvey line on S.bdy. of sec. 32.
7.00	Head of draw 15 ft. below ¼ sec. cor. drains S.
12.50	Spur 20 ft. above draw projects S.
40.00	Enter aspen timber bears N.10°W. and S.10°E.
40.44	Intersect standard cor. of secs.31 and 32. here to fore described.
	Land ,mountainous.
	Soil, light sandy loam with some gravel and stones on sandstone base .
	Timber ,aspen .
	Mountainous or timbered land 80.79 chs.

John W. Dougall
U.S.Surveyor,

Sept.13,1914.

Sept. 15,1914.At 9 a.m. apparent time, I set off 41°28' on the lat. arc; 3°12'N.on the decl. arc; and determine a meridian with the solar at the standard cor. of secs. 33 and 34 , here to fore described,

Resurvey of 2nd. Standard Parallel N. Through R.5 E.

Chains.	
	Thence I run
	N.89°40'E. on a resurvey line on S.bdy. of sec.34.
	Ascend over mountainous land .
12.00	Spur 125 ft. above sec. cor. projects S.
15.00	Head of draw 25 ft. below spur drains S.
20.30	Spur 50 ft. above draw projects S.15°E.
27.00	Head of draw 50 ft. below spur drains S.80°E.
34.40	Point of spur 20 ft. above draw projects SE. 1 .ch.
37.50	Draw (Main) 140 ft. below spur drains S.
39.91	Set an iron post, 3 ft.long, 1 in.in dia. 24 ins. in th ground, for standard ¼ sec. cor. with brass cap marked

S 34
¼
1914

and raise a mound of stone 2 ft. base 1 ½ ft. high N. of cor.

46.00	Spur 200 ft. above draw projects S.
50.00	Mouth of draw 45 ft. below spur drains S.
60.00	Point of spur 50 ft. above draw projects S.
67.10	Draw 150 ft. below spur drains S.
79.82	Top of spur 260 ft.above draw projects S. 20°W.
	Intersect the standard cor. of secs.34 and 35 ,before described,which I replace as follows,
	Set an iron post, 3 ft. long, 3 ins. in dia. 24 ins. i the ground, along side the old cor. for standard cor. secs. 34 and 35 ,with brass cap marked

T 9 N R 5 E

S 34 | S 35
1914

and raise a mound of stone 3 ft. base 2 ft.high N. of

Land, mountainous.

Soil, stony and gravelly washed on slopes.

No timber.

Mountainous land 79.82 chs.

Thos. C. Rathbone
U. S. Surveyor

Sept, 15, 1914.

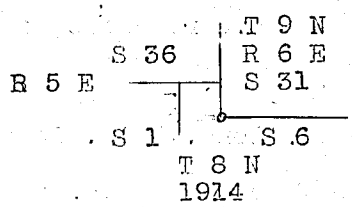
Resurvey of 2nd. Standard Parallel N. Through R.5 E.

Chains.	
	Sept.14,1914, At 8 a.m. apparent time, I set off 41°28' on the lat. arc; 3°37'N. on the decl. arc; and determine a meridian with the solar at the standard cor. of secs. 34 and 35.
	Thence I run
	N.89°39'E. on a resurvey line on S.bdy. of sec. 35.
	Descend over mountainous land.
5.70	Draw 50 ft. below sec. cor. drains S. 25°E.
9.30	Spur 35 ft. above draw projects S.
16.50	Draw 100 ft. below spur drains S.
22.00	Spur 35 ft. above draw projetts. S.
27.00	Hollow 100 ft. below spur drains S.
37.00	Point of spur 110 ft. above draw projects S.
40.15	Intersect standard ¼ sec.cor. before described, which I replace as follows.
	Set an ironpost, 3 ft. long. 1 in. in dia. 24 ins. in the ground, along side of the old ¼ sec. cor. for standard ¼ sec. cor. with brass cap marked
	S 35 / ¼ / 1914
	and raise a mound of stone 2 ft? base 1½ ft. high N. of cor.
	Thence I run
	N.89°45'E. on a resurvey line on S.bdy. of sec.35.
5.00	Enter shale slide on steep S. slope bears N.85°E & S.85°W.
30.00	Leave slide continue on S.slope. bears N.85°W. and S.85°E.
40.20	Intersect the standard cor. of secs. 35 and 36, here to fore described, which I replace as follows.
	Set an iron post, 3 ft. long, 3 ins. in dia. 24 ins. in the ground, (The old cor. was buried with the new) for standard cor. of secs. 35 & 36, with brass cap marked.
	T 9 N R 5 E S 35 | S 36 1914
	and raise a mound of stone 3 ft. base 2 ft, high N. of cor.
	Land, mountainous.
	Soil, light poor sandy loam, with gravel and stones and shale, underlayed with limestone and gravel.
	No timber.

Resurvey of 2nd. Standard Parallel N. Through R.5 E.

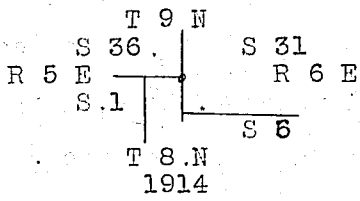
Chains.	
	From standard cor. of secs. 35 and 36.
	I run
	S.89°37'E. on a resurvey line on S. bdy. of sec. 36.
	Descend along steep S. slope.
2.00	Small draw 20 ft. below sec. cor. drains S.
15.90	Spur 75 ft. above draw projects S.
20.30	Draw 90 ft. below spur drains S.
24.19	Intersect W. bdy. of T.9 N.R.6 E. 6.65 chs. N.0°40'E. of standard cor. of T.9 N.Rs. 5 & 6 E., before described, which I replace as follows.

Set an iron post 3 ft. long, 3 ins. in dia. 24 ins. in the ground, (The pieces of the old cor. buried with new for standard cor. of T.9 N.R.6 E. with brass cap marked



and raise a mound of stone 2 ft. base 1 ½ ft. high NE. of cor.

Set an iron post, 3 ft. long, 3 ins. diam. 24 ins. in the ground, for closing cor. of T.9 N.R.5 E. and T.8 N.R.6 E. with brass cap marked



and raise a mound of stone 3 ft. base 2 ft. high W. of cor

Land, mountainous,.

Soil, light dandy loam with gravel and stones, underlaid with gravel and limestone.

No timber.

John W. Dougall
U.S. Surveyor

Sept. 14, 1914.

Retracement of North Boundary of T.7 N., R.4 E.

Chains.	
	July 20, 1914:
	After diligent search having found no trace of any township corner, I proceed to the closing corner marked for T.7 N., Rs.3 and 4 E., heretofore described and run
	N.89°54'E.on a retracement line bet.secs.6 and 31
22.00	After careful search find no trace of ¼ sec.cor.
	July 20, 1914.
	July 23, 1914: The sky is overcast and solar observations impossible.
	I continue on retracement line bet.secs.6 and 31
63.31	Fall 7 lks.N.of the cor.of secs.5,6,31 and 32, which is a sandstone 5 x 12 x 14 ins.above ground, firmly set, plainly marked 5 notches on E. and 1 notch on W.edges, witnessed as described by the surveyor general.
	Therefore the course of this line is N.89° 58'E. and distance 63.31 chs.
	From the cor.of secs.5,6,31 and 32 I run
	N.89°54'E.on a retracement line bet.secs.5 and 32,
40.91	Fall 5 lks.N.of ¼ sec.cor., which is a sandstone 6 x 12 x 10 ins.above ground, firmly set, plainly marked ¼ on N.face, witnessed as described by the surveyor general.
	Therefore the course of this line is N.89° 58'E. and distance 40.91 chs.
	Moved to ¼ sec.cor.
	Thence I run
	N.89°54'E.on retracement line on N.bdy.of sec.5,
39.27	Fall 5 lks.N.of cor.of secs.4,5,32, and 33, which is a limestone outcropping in place, marked cross (X) and 2 notches W.and 4 notches E.of cross, witnessed as described by the surveyor general.
	Therefore the course of this line is N.89°58'E., and

Chains.	
	distance 39.27 chs.
	July 23, 1914.
	July 24, 1914: At 9 a.m.apparent time, I set off 41° 23' on the lat.arc; 19° 59'N.on the decl.arc; and determine a meridian with the solar at the cor.of secs.4,5, 32, and 33.
	Thence I run
	N.89°54'E.on a retracement line bet.secs.4 and 33,
39.48	Fall 6 lks.N.of ¼ sec.cor., which is a quartzite stone 7x7x6 ins.above ground, firmly set and marked and witnessed as described by the surveyor general.
	Therefore the course of this line is N.89° 59'E., and distance 39.48 chs. Moved to ¼ sec.cor.
	Thence I run
	N.89°54'E.on a retracement line bet.secs.4 and 33,
40.16	Fall 15 lks.N.of cor.of secs.3,4,33, and 34, which is a quartzite stone 9 x 12 x 9 ins.above ground, firmly set, marked and witnessed as described by the surveyor general. Therefore the course of this line is S. 89° 53'E., and distance 40.16 chs .
	July 24, 1914:At this cor.I set off 19°57'N.on the decl arc; and at 12 M.apparent time,observe the sun on the meridian; the resulting lat.is 41° 23' or within 1' of the proper lat.
	From the cor.of secs.3,4,33, and 34 I run
	N.89°54'E.on a retracement line bet.secs.3 and 34,
39.73	Intersect the ¼ sec.cor., which is a sandstone 4 x 12 x 6 ins.above ground,firmly set,and marked and witnessed as described by the surveyor general. Therefore the course of this line is N.89°54'E.and distance 39.73 ch
	From the ¼ sec.cor.I run
	N.89°54'E.on a retracement line bet.secs.3 and 34,
40.06	Fall 2 lks.S.of the cor.of secs.2,3,34, and 35.

Chains.

which is a sandstone 8 x8 x 8 ins. above ground, firmly set,and marked and witnessed as described by the surveyor general.

Therefore the course of this line is N.89°52'E.and dist. is 40.06 chs.

July, 24, 1914.

July, 25, 1914, At 9 a.m. ,apparent time, I set off 41°23' on the lat. arc; 19°46'N.on the decl. arc; and determine a meridian with the solar at the cor. of secs.2,3,34& 35.

Thence I run

N.89°54'E.on a retracement line bet. secs. 2 & 35 E.

40.39 Fall 12 lks. S. of ¼ sec. cor. which is a quartzite stone 4 x 12 x 6 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.

Therefore the course of this line is N.89°44'E. and distance is 40.39 chs.

Moved to ¼ sec. cor.

Thence I run

N.89°54'E .on a retracement line bet.secs.2 & 35.

40.15 Fall 16 lks. N. of cor. of secs.1,2,35 & 36,which is a quartzite stone 9 X 9 X 10 ins. above ground, firmly set and marked and witnessed as described by the surveyor general.

Therefore the course of this line is N.89°40'E. and distance is 40.15 chs.

July, 25,1914, At this cor. I set off 19°44'N. on the decl. arc; and ,at 12 m.apparent time, observe the sun on the meridian ;the resulting lat. is 41°23'

From the cor. of secs. 1,2,35 and 36.

I run

N. 89°54'E. on a retracement line bet.secs. 1 & 36.

40.30 Fall 5 lks .S.of ¼ sec. cor. which is a limestone 6 x 9 x 7 ins. above ground, firmly set, and marked and

Chains.	
	and witnessed as described by the surveyor general.
	Therefore the course of this line is N.89°50'E. and
	distance is 40.30 chs.
	Moved to ¼ sec. cor.
	Thence I run
	N.89°54'E. on a retracement line bet. secs. 1 & 36.
40 32	Fall 2.45 chs. S. of cor. of Tps. 7 & 8 N.Rs. 4 and 5
	E. which is a sandstone 8 X 10 X 6 ins. above ground,
	firmly set, and marked and witnessed as described by t
	surveyor general.
	Therefore the course of this line is N.86°25'E. and dist.
	is 40.39 chs.
	July, 25,1914,
	Resurvey of N. Boundary of T.7 N.R 4 E.
	August,1, 1914, At 9 a.m. apparent time , I set off 41
	23 ' on the lat. arc; 18°09'N. on the decl. arc; and
	determine a meridian with the solar at the cor. of Tps
	7 & 8 N Rs. 4 & 5 E.
	Thence I run
	S.86°25'W. on a resurvey line on N. bdy. of sec. 1.
	Ascend over mountainous land through aspen timber,.
10.00	Ridge 75 ft. above Tp. cor. bears S.80°E. and W. thenc
	along top of ridge to
33.00	Leave ridge bears S.60°W. and E.
40.00	Set an iron post, 3 ft. long, 1 in. in dia. 24 ins. in
	the ground, for, ¼ sec. cor. of sec. 36, with brass
	cap marked
	S ¼ 36
	1914
	from which
	An aspen 6 ins. diam. bears N.62°30'E. 48 lks. dist.
	marked ¼ S 36 B T .
	An aspen 6 ins. diam. bears N.76°W. 65 lks. dist.
	marked ¼ S 36 B T .
40 39	The old ¼ sec. cor. here-to-fore described. I destroy

Chains. the marks on bearing tree that stands in sec. 36.

Note; From this ¼ sec. cor. 1 run

S.89°50'W. on a resurvey line on N. bdy. of sec. 1.

49.00 Head of draw 60 ft. below ¼ sec. cor, drains N.50°W.

49.50 Leave aspen enter scattering pine timber bears N.10°W. and S.10°E.

52.30 Leave pine timber bears N.45°W. and S. 45°E.

57.00 Spur 50 ft. above draw projects N.45°W.

67.70 Enter scattering aspen timber bears N.45°W. and S.45°E.

76.90 Draw 225 ft. below spur spring branch 3 lks. wide 1 in. deep, runs N. 45°W.

80.00 Set an iron post, 3 ft. long 3 ins. in dia. 24 ins. in the ground, for cor. of secs. 35 & 36 of T.8 N.R.4 E? with brass cap marked

T 8 N
S 35 | S 36
R 4 E----------
S 2 | S 1
T 7 N
1914

from which

An aspen 7 ins. diam. bears N.65°E.45 lks. dist.
marked T 8 N R 4 E S 36 B T .

An aspen 8 ins. diam. bears N.36°W.87 lks. dist.
marked T 8 N R 4 E S 35 B T .

Land, mountainous ,

Ridges with good sandy loam 4 to 18 ins, deep, medium texture , moist, underlaid with clay and limestone.

slopes and draws slightly washed and stony.

Timber, aspen and pine.

Mountainous or timbered land 80.00 chs.

August, 1, 1914, The sky is partly overcast and lat. obs. impossible.

From cor. of secs. 35 and 36. of T.8 N. R.4 E.

I run

S.89°50'W. on a resurvey line on N. bdy. of sec. 1.

00.69 Intersect the cor. of secs. 1, 2, 35 and 36, heretofore described. I destroy all marks on cor. of secs. 1, 2, 35 and 36 that pertain to secs.

Chains.	
	35 and 36.
	Thence I run
	S.89°40'W. on N. bdy. of sec. 2 .
	Ascend over mountainous land through aspen timber .
2.00	Leave aspen enter pine timber bears N. and S.
5.00	Leave pine timber bears N. 45°W. & S.45°E.
5.50	Point of spur 50 ft. above sec. cor. projects N.
18.50	Spring branch 4 lks. wide 2 ins. deep in draw 100 ft. below spur runs. N.45°E.
18.70	Enter aspen timber bears N.45°E. and S.4 5°W.
28.00	Leave aspen timber bears N. and S.
31.30	Ridge 110 ft. above draw bears N.10°W. and S.10°E. divide bet. Rich and Weber Counties.
35.10	Wood road bears N.10°W. and S.10°E.
40.00	Set an iron post 3 ft.long, 1 in. in dia. 24 ins. in th ground, for ¼ sec. cor. of sec. 35 ,with brass cap mark
	S ¼ 35 / 1914
	from which
	An aspen 6 ins. diam. bears N.63°E.37 lks? dist. marked ¼ S 35 B T .
	An aspen 8 ins. diam. bears N.23°W.48 lks. dist. marked ¼ S 35 B T .
40.84	The old ¼ sec. cor. here-to-fore described.
	I destroy the marks on the bearing tree in sec. 35.
	Thence I run
	S.89°44'W. on a resurvey line on N. bdy. of sec. 2.
41.50	Enter aspen timber bears N.75°E. & S .75°E
55.25	Draw 50 ft. below ¼ sec. cor. drains N?85°W.
68.70	Same draw drains S.85°W.
73.00	Leave aspen timber bears N.45°W.and S.45°E.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia. 24 ins. in the ground, for cor,. of secs. 34 and 35 of T.8 N.R.4 E with brass cap marked

Chains.

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        T 8 N
     S 34 | S 35
R 4 E ---------
   S 3 | S 2
     T 7 N
      1914
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and raise a mound of stone 3 ft. base 2 ft. high W. of cor.

Land , mountainous.

Soil, good brown sandy loam , medium texture, moist, on clay subsoil.

Timber, aspen and pine.

Mountainous or timbered land, 80 .00 chs.

August, 1 ,1914.

August, 3 ,1914, At 8 a.m. ,apparent time , 1 set off 41°23'N. on the lat. arc; 17°39'N. on the decl. arc; an d determine a meridian with the solar at the cor. of secs. 34 and 35.

Thence 1 run

S.89°44'W. on a resurvey line on N. bdy. of sec. 2.

Descend gently over rolling mountainous land.

1.23 Intersct the cor. of secs. 2,3,34 and 35. here-to-fore described . 1 destroy all marks on this cor. that pertain to secs. 34 and 35.

Thence 1 run

S.89°52'W. on a resurvey line on N. bdy. of sec. 3.

3.50 Draw 30 ft. below sec. cor. drains N.85°W.

9.90 Same draw drains S.50°W.

10.60 Spring of good water 10 lks. N. of line.

12.00 Point of spur 35 ft. above draw projects S.

13.70 Draw 45 ft. below spur spring branch 4 lks. wide 2 ins. deep in bottom runs S.30°W.

22.00 Spur 75 ft. above draw projects S.25°E.

27.50 Draw 50 ft. below spur drains S. 40°E.

28.50 Enter aspen timber bears N.45°W. and S.458 E.

37.00 Spur 100 ft. above draw projects S.60°E.

40.00 Set an iron post, 3 ft. long, 1 in. in dia. 24 ins. in the ground, for ¼ sec. cor. of sec.34, with brass cap marked

Chains.	
	S 34 1/4 1914
	from which
	An aspen 6 ins. diam. bears N.30°E. 37 lks. dist.
	marked 1/4 S 34 B T
	An aspen 8 ins. diam. bears N.23°W?.48 lks. dist.
	marked 1/4 S 34 B T .
41.29	The old 1/4 sec. cor. here-to-fore described.
	I destroy the marks on the bearing tree in sec. 34.
	Thence I run.
	S.89°54'W. on a resurvey line on N. bdy. of sec.3.
46.00	Head of draw 50 ft. below spur drains S.50° E.
52.55	Spur 75.ft. above draw projects S.60°W.
80.00	Set an iron post, 3 ft.long, 3 ins. in dia. 24 ins. in
	the ground, for cor. of secs. 33 and 34 T.8 N.R.4 E.
	with brass cap marked

T 8 N
S 33 | S 34
R 4 E
S 4 | S 3
T 7 N
1914

from which
An aspen 12 ins. diam. bears N.37°15'E.91 lks.dist.
marked T 8 N R 4 E S 34 B T.
An aspen 16 ins. diam. bears N.65°20'W.1.68 chs. dist.
marked T 8 N R 4 E S 33 B T .
This cor. is 300 ft. below spur .
Land, mountainous,
Soil, sandy loam, 3 to 20 ins. deep, medium texture, moist, on clay subsoil,
Timber aspen.
Mountainous or timbered land, 80.00 chs.
August ,3.1914,At this cor. I set off 17°36'N. on the decl.arc; and , at 12 m.apparent time, observe the sun on the meridian ;the resulting lat. is 41°23'.

From the cor.of secs. 33 and 34,of T.8 N.R.4 E.
I run

Resurvey of North Boundary of T.7 N.R.4 E.

Chains.	
	S.89°54'W. on a resurvey line on N. bdy. of sec.3.
	Descend over mountainous land through aspen timber .
1.02	Intersect the cor. of secs.3,4,33 and 34,here-to-fore described , I destroy all marks on this cor. that pertain to secs. 33 and 34.
	Thence I run
	N.89°53'W. on a resurvey line on N. bdy. of sec. 4.
1.20	Draw 20 ft. below sec. cor. spring branch 1 lk.wide 1 in. deep runs. N. 5 chs. then S.80°W.
8.00	Point of spur 50 ft. above draw projects N.
11.30	Leave aspen enter pine timber bears N.60°E .& S.60°W.
25.00	Leave pine enter aspen timber ,bears N.75°E. and S.75°W.
27.80	Draw 125 ft. below spur drains S.60°W. also leave aspen timber bears N.60°E. and S.60°W.
36.00	Enter aspen timber and chokecherry underbrush bears N. and S.
40.00	Set an iron post, 3 ft.long, 1 in.in dia. 24 ins. in the ground, for ¼ cor. of sec. 33, with brass cap marked

S 33
¼

1914

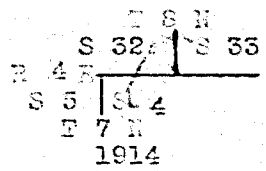
from which

An aspen 5 ins. diam. bears N.48°E.75 lks. dist.marked ¼ S 33 B T .

An aspen 5 ins. diam. bears N.1°W.5 lks. dist.marked ¼ S 33 B T .

41.18	The old ¼ sec. cor. here-to-fore described .
	Thence I run
	S.89°59'W. on a resurvey line on N. bdy. of sec. 4.
53.50	Spur 400 ft. above draw projects S.45°W.
60.00	Leave aspen enter scattering pine timber bears N. and S.
80.00	Set an iron post, 3 ft.long, 3 ins. in dia. 24 ins. in a stone mound, (On account of the stony formation was impossible to dig.)for cor. of secs. 32,and 33 , T 8 N R 4 E. with brass cap marked

Chains.



from which

A pine 10 ins. diam. bears N.10°W. 33 lks. dist. marked

T 8 N R 4 E S 33 B T .

A pine 18 ins. diam. bears N.80°W. 65 lks. dist. marked

T 8 N R 4 E S 32 B T .

This cor. is 650 ft. below spur .

Land ,mountainous,

Soil, on E.53.50 chs. sandy loam,medium texture, moist, with some stones ,on clay subsoil, W.26.50 chs. washed and stony with numerous small limestone outcroppings.

Timber, aspen and pine, underbrush chokecherry.

Mountainous or timbered land 80.00 chs.

August,3,1914.

August ,4 ,1914.At 9 a.m. apparent,time,I set off 41°2 on the lat. arc; 17°22'N. on the decl. arc; and determi a meridian;with the solar at the cor. of secs. 32 & 33.

Thence I run

S.89°59'W. on a resurvey line on N. bdy. of sec.4.

Descend over mountainous land through pine timber and chokecherry underbrush.

00.66 The cor. of secs. 4,5,32 and 33,here-to-fore described. I destroy all marks on this cor. that pertain to secs. 32 and 33 .

Thence I run

S.89°58'W. on a resurvey line on N. bdy. of sec. 5 .

1.50 Spring branch 6 lks. wide 5 ins. deep in "Bottom of Canyon" runs S.10°W. 50 ft. below sec. cor.

7.75 Point of rocky spur 400 ft. above draw projects S.

14.25 Bottom of draw 450 ft. below spur drains S.also leave pine timber bears N. and S. and underbrush.

Resurvey of North Boundary of T.7 N.R. 4 E.

Chains	
35.00	Enter aspen timber bears N. and S.
39.93	The old ¼ sec. cor. here-to-fore described .
40.00	Set an iron post, 3 ft. long, 1 in. in dia. 24 ins in the ground, for ¼ cor. of sec.32, with brass cap marked

S 32
¼

1914

from which

An aspen 5 ins. diam. bears N.5°E. 22 lks. dist.
marked ¼ S 32 B T .

This ¼ sec. cor. is 500 ft. above draw.

59.15	Dim wood road bears N. and S.
67.50	Enter willows among aspen timber bears N. and S.
68.50	Top of ridge 300 ft. above ¼ sec. cor. bears N. and S.
72.00	Leave willows among aspen timber bears N10°W. & S.10°E.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia 24 ins. in the ground for cor. of secs.31 & 32 of T.8 N.R.4 E. with brass cap marked

T 8 N
S 31 | S 32
R4 E ----------
S 6 | S 5
T 7 N
1914

from which

An aspen 20 ins. diam. bears N.19°E. 25 lks. dist.
marked T 8 N R 4 E S 32 B T .

An aspen 6 ins. diam. bears N.47°W.14 lks. dist.
marked T 8 N R 4 E S 31 B T .

This cor. is 325 ft. below ridge.

Land ,mountainous.

Soil, light sandy loam , on ridges washed and stony on slopes and in draws , underlaid with limestone,

Timber , aspen and pine . underbrush chokecherry and willows .

Mountainous or timbered land 80.00 chs.

August ,4,1914, At this cor. I set off 17°20'N. on the decl. arc; and ,at 12,m,apparent time ,observe the sun on the meridian , the resulting lat. is 41°23'.

Chains. From cor. of secs. 31 and 32.

I run

S.89°58'W. on a resurvey line on N. bdy. of sec.5.

Descend over mountainous land through aspen timber.

00.84 The cor. of secs.5,6,31 & 32,here-to-fore described.

I destroy all marks on this cor. that pertain to secs. 31 & 32.

Note ;The cor. of Tps. 7 & 8 N.Rs.3 & 4 E.was restored at a point 88 lks. E. and 40 lks. N. of the point at which the G.C. marked for T 7 N Rs.3 and 4 E. was found and the course from the cor.marked for T.7 N.Rs.3 & 4 E.to cor. of secs. 5,6 31 & 32 is N.89°58'E.& dist.63.[illegible] Therefore the course from cor. of secs. 5 & 6,to the restored cor. of Tps. 7 & 8 N.Rs. 3 & 4E.is N.89°40'W. and distance is 62.43 chs.

Thence I run

N.89°40'W. on a resurvey line on N. bdy. of sec.6.

2.10 Draw 20 ft. below sec. cor.drains S.10°W.

23.00 Spur 300 ft. above draw projects S.10°W.

40.00 Set an iron post, 3 ft.long, 1 in.in dia. 24 ins. in t[illegible] ground for ¼ cor. of sec.31 ,with brass cap marked

S ¼ 31
1914

from which an aspen 4 ins. diam. bears N.30°E.25 lks. marked ¼ S 31 B T .

41.12 Set an iron post, 3 ft.long.1 in.in dia. 24 ins. in th[illegible] ground,for ¼ cor. of sec. 6.with brass cap marked

¼
S 6
1914

from which

An aspen 4 ins. diam. bears S.40°E.6 lks. dist. marked ¼ S 6 B T .

Note ; The ¼ sec. cor. for sec .6 was set at proporti[illegible] distance bet. cor. of secs. 5 & 6.and the Tp.cor.

$$\frac{\text{Record}}{\text{Measured}} = \frac{62.00}{62.43} = \frac{40.00}{X} \quad X = 40.28 \text{ chs.}$$

Resurvey of North Boundary of T.7 N.R.4 E.

Chains.	
41.50	Leave aspen timber bears N. and S.
50.00	Draw 400 ft. below spur drains S.
51.00	Enter dense underbrush of chokecherry and willows.bears N. and S.
61.00	Leave underbrush bears N.45 °E. and S. 45°W.
62.43	The cor. of Tps. 7 & 8 N Rs.3 & 4 E.

This cor. is 350 ft. above draw .

Land, mountainous .

Soil, good sandy loam, 3 to 17 ins. deep, medium texture moist, with some stones ,slightly washed on slopes .

Timber, aspen, undergrowth ,chokecherry and willows.

Mountainous or timbered land 62.43 chs.

Thos. C. Rathbone
U.S. Transitman

August,4. 1914.

Retracement of 1st. Guide Meridian East, through T. 8 N. bet? 4 &

Chains.	
	July, 27, 1914, At 9, a.m. apparent time, I set off 41° on the lat. arc; 19°20' N. on the decl. arc; and determ a meridian with the solar at the cpr. of Tps. 7 & 8 N. Rs. 4 & 5 E. heretofore described.
	Thence I run.
	North on a retracement line bet. secs. 31 and 36.
39.81	Fall 5 lks. W. of ¼ sec. cor. which is a pine tree 18 ins. in dia. marked and witnessed as described by the surveyor general,
	Therefore the course of this line is N. 0°04' E. and dis is 39,81 chs.
	Moved to ½ sec. cor.
	Thence I run
	North on a retracement line bet. secs. 31 and 36.
40.48	Fall 5 lks. W. of cor. of secs. 25,30,31 & 36. which is a sandstone 6 X 8 X 6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.
	Therefore the course of this line is N. 0°04' E. and dis is 40.48 chs.
	July, 27, 1914., At this cor., I set off 19°18' N. on th decl. arc.; and at 12, m. apparent time, observe the sun on the meridian; the resulting lat. is 41°23'.
	--- ---
	From the cor. of secs. 25,30,31 and 36.
	I run
	North on a retracement line bet. secs. 25 and 30.
40.00	After careful search find no trace of ¼ sec./cor.
80.30	Fall 28 lks. W. of cor. of secs. 19,24,25 and 30, which is a hard sand stone 8 X 12 X 8 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	Therefore the course of this line is N. 0°12' E. and distance is 80.30 chs.
	July, 27, 1914.

July, 28,1914, At 9 a.m. ,apparent time, I set off 41°24'
on the lat. arc; 19°06'N. on the decl.arc; and determine
a meridian with the solar at the cor. of secs.19,24,25
and 30,

Thence I run

North on a retracement line bet. secs. 19 and 24.

40.00 Fall 14 lks. W. of ¼ sec. cor. which is a sandstone
6 X 12 X 6 ins. above ground, firmly set, marked and
witnessed as described by the surveyor general.
Therefore the course of this line is N.0°12'E. and
distance is 40.00 chs.

Moved to ¼ sec. cor.

Thence I run

North on a retracement line bet. secs. 19 and 24.

40.00 Fall 14 lks. W. of an old decayed pine stump 24 ins. in
dia. dimly marked S 18 on NE.

from which a pine stump 12 ins. diam. bears N.45°E. 45
lks. dist. dimly marked S 18 B T .

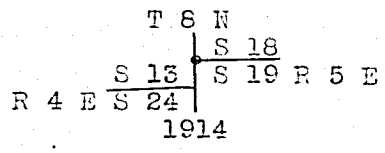
A pine stump greatly decayed bears S.31°E.34 lks. dist.
dimly marked S.19 B T.

No other accessories found,

I therefore conclude that the stump found is at the
original cor. point .

I re establish the cor. at this point as follows .

Set an iron post, 3 ft.long, 3 ins. in dia. 24 ins in
the ground ,for cor .of secs. 18 and 19. with brass cap
marked . (Note; From retracements already made I know
that cors. for 2 secs.will be set on this meridian.)



from which

A pine 8 ins. diam. bears N.60°E.40 lks. dist.
marked T 8 N R 5 E S 18 B T .

A pine 12 ins. diam. bears S.70°E.20 lks. dist.
marked T 8 N R 5 E S 19 B T .

Therefore the course of this line is N.0°12'E.and dist is 40.00 chs.

July, 28,1914, At this cor. 1 set off 19°04'N. on the decl.arc; and ,at 12 m.apparent time, observe the sun on the meridian the resulting lat. is 41°25'.

From cor. of secs.18 and 19 of T.8 N.R.5 E.

1 run

North on a retracement line bet. secs. 13 and 18.

38 97 Fall 10 lks. W. of ¼ sec. cor.which is a sandstone 6 X 12 X 6 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general . Therefore the course of this line is N. 0°09'E.and distance is 38.97 chs.

Moved to ¼ sec. cor.

Thence 1 run

North on a retracement line bet. secs. 13 and 18.

40.07 Fall 10 lks. E. of cor. of secs. 7,12,13 and 18, which is a sandstone in place 20 X 20 X 4 ins . above ground marked and witnessed as described by the surveyor gene Therefore the course of this line is N.0°09'W.and distance is 40.07 chs.

Thos. C. Rathbone.
A. S. Transitman

July, 28, 1914 .

July, 18, 1914, At 9 ,a.m. apparent time, 1 set off 41° 28'N. on the lat. arc; 21° 07'N. on the decl.arc; and determine a meridian with the solar at the CC .of T.8 N. Rs. 4 & 5 E. before described.

Thence 1 run

South on a retracement line bet. secs .1 & 6.

33 43 Intersect ¼ sec. cor. which is a sandstone 3 X 12 X 12 ins. above ground, firmly set, and marked and witnesse as described by the surveyor general,

73 46 Intersect the cor, of secs. 1,6,7 & 12 , which is a sandstone 3 X 7 X 8 ins. badly broken quite plainly

Retracement of 1st. Guide Meridian E. through T. 8 N bet. Rs. 4 & 5 E.

hains. marked 5 notches on one piece and 1 notch on another. stene mound W. of cor.

I re establish the cor. at same point as follows .

Set an iron post, 3 ft. long, 3 ins. in dia. 24 ins. in the ground for cor. of secs. 1,6,7 and 12. with brass cap marked

T 8 N
R 4 E | R 5 E
S 1 | S 6
S 12 | S 7
1914

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

Therefore the course of this line is S. and distance is 73.46 chs.

July, 18, 1914, At this cor. I set off 21°06'N. on the decl. arc; and , at 12, m. apparent time , observe the sun on the meridian ; the resulting lat. is 41°27'

From cor, of secs .1,6.7 & 12.

I run

South on a retracement line bet. secs. 7 and 12.

40.03 Fall 5 lks. W. of ¼ sec. cor. which is a sandstone 8 X 8 X 6 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.

Therefore the course of this line is S. 0°04'E. and dist. is 40.03 chs.

Moved to ¼ sec. cor.

Thence I run

South on a retracement line bet. secs. 7 and 12..

39.96 Fall 1 lk. W. of cor. of secs. 7,12,13 & 18 which is a sandstone in place 20 X 20 X 4 ins. above ground, marked and witnessed as described by the surveyor general.

Therefore the course of this line is S. 0°01'E. and dist. is 39.96 chs.

John W. Dougherty
U.S. Surveyor
July, 18, 1914

Chains.	
	August, 6, 1914, At 3 p.m. ,apparent time, 1 set off 4
	23'N. on the lat. arc; 16°46'N. on the decl.arc; and
	determine a meridian with the solar at the cor. of
	Tps. 7 & 8 N.Rs. 4 & 5 E.here to fore described.
	Thence 1 run
	N.0°04'E. on a resurvey line bet. secs. 31 and 36.
	Descend over mountainous land through aspen timber.
7.00	Head of draw 100 ft. below Tp cor. drains N.70°E.
19.00	Spur 125 ft. above draw projects N.70°E.
26.00	Leave aspen enter pine timber bears E. and W.
37.18	Set an iron post,3 ft.long, 1 in.in dia. 24 ins. in th
	ground,for ¼ cor. of sec .36 with brass cap marked.
	¼ S 36 | 1914
	from which
	A pine 6 ins. diam. bears N.61°W.30 lks. dist.
	marked ¼ S 36 B T .
	Note ; This ¼ sec.cor .setat 40.00-2.82 the northing o
	the S.bdy. of Tp. equals 37.18 chs.
39.81	The old ¼ sec. cor. here to fore described . 1 destroy
	all marks on this cor. that pertain to sec.36.
49.00	Bottom of draw 325 ft. below spur ,spring branch 2 lks
	wide 1 in.deep. runs N.80°E. also leave pine timber be
	E and W.
55.00	Enter aspen timber bears N.45°E. and S.45°W.
62.00	Spur 250 ft. above draw projects S.70°E.
66.00	Head of draw 65 ft. below spur drains S.60°E.
77.18	Set an iron post.3 ft.long,3 ins. in dia. 24 ins. in th
	ground, for cor. of secs. 25 and 36,T.8 N.R.4 E.
	with brass cap marked
	T 8 N S 30 R 5 E. R 4 E S 25 S 31 S 36 1914
	from which
	An aspen 10 ins. diam. bears S.34°30'W 36 lks. dist.

Chains.

marked T 8 N R 4 E. S 36 B T .

An aspen 11 ins. diam. bears N.35°40'W.30 lks. dist.

marked T 8 N R 4 E S 25 B T .

Land, mountainous.

Soil, good brown sandy loam, 4 to 20 ins. deep, medium texture , moist, underlaid with clay and sandstone,

Timber, aspen and pine.

Mountainous or timbered land 77.18 chs.

August, 6 , 1914.

August , 7 ,1914. At 8 ,a.m.,apparent time ,I set off 41°24' on the lat.arc; 16°35'N. on the decl.arc; and determine a meridian with the solar at the cor.of secs 25 and 36.

Thence I run

N.0°04'E. on a resurvey line on E. bdy. of sec.25.

Ascend over mountainous land through aspen timber.

3.11 Top of spur 75 ft. above draw projects N. 80°E.

Intersct the cor. of secs. 25,30,31 and 36,here to fore described . I destroy all marks on this cor. that pertain to secs. 25 and 36.

Thence I run

N.0°12'E. on E.bdy. of sec. 25.

9.00 Leave aspen enter pine timber bears E. and W.

30.00 Begin abrupt descrnt bears E. and W.

40.00 Set an iron post, 3 ft.long, 1 in.in dia.24 ins. in the ground, for ¼ cor. of sec.25, with brass cap marked

¼ S 25 | 1914

from which

A pine 16 ins diam. bears N.15°W.13 lks. dist. marke d ¼ S 25 B T .

43.26 Being midway bet. cor. of secs.25,30,31 and 36,and 19,24 25 and 30. restore the ¼ sec. cor.for sec.30 as follows: Set an iron post, 3 ft.long, 1 in.in dia. 24 ins. in the ground ,for ¼ cor. of sec.30,with brass cap marked

Chains.

$\frac{1}{4}$ | S 30
1914

from which

A pine 12 ins. diam. bears S.80°E. 17 lks. dist. marked

$\frac{1}{4}$ S 30 B T .

48.00 Bottom of canyon 500 ft. below spur spring branch 6 wide 5 ins. deep runs N.80°E. also leave pine timber bears N.80°E. and S.80°W.

61 50 Spur 300 ft. above canyon projects S.80°E. and enter scattering pine and aspen timber bears E. and W.

67.00 Draw 125 ft. below spur drains S.85°E.

76.00 Spur 100 ft. above draw projects S.80°E.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia. 24 ins. in the ground, for cor. of secs. 24 and 25, T.8 N. R.4 E. with brass cap marked

T 8 N
S 19
S 24 | S 30
S 25
R 4 E | R 5 E
1914

from which

An aspen 8 ins. diam. bears S.69°W. 1.10 chs. dist. marked T 8 N R 4 E S 25 B T .

An aspen 7 ins. diam. bears N.77°W. 1.26 chs. dist. marked T 8 N R 4 E S 24 B T .

Land, mountainous .

Soil , on ridges good sandy loam with some stones, washed and stony on slopes.

Timber, aspen and pine.

Mountainous or timbered land, 80.00 chs.

August, 7 ,1914, At this cor. I set off 16°31'N. on the decl. arc; and at 12 m. apparent time, observe the sun on the meridian ; the resulting lat. is 41°25'

From cor. of secs. 24 and 25.

I run

N.0°12'E. on a resurvey line on E. bdy. of sec. 24.

Descend over mountainous land through scattering aspen and pine timber.

3.41 Intersect the cor. of secs. 19,24,25 & 30, here to fore described. I mark bearing trees as follows:

A pine 6 ins. diam. bears N.68°E. 1.20 chs. dist. marked T 8 N R 5 E S 19 B T.

A pine 6 ins. diam. bears S.65°30'E. 41 lks. dist. marked T 8 N R 5 E S 30 B T.

7.40 Draw 50 ft. below sec. cor. spring branch 3 lks. wide 2 ins. deep runs S.70°E. also leave aspen and pine timber bears N.70°W. and S.70°E.

27.50 Top of spur 350 ft. above draw projects N.60°E.

30.00 Enter scattering aspen timber bears N.45°E. & S.45°W.

35.50 Leave same bears E. and W.

40.00 Set an iron post, 3 ft. long. 1 in. in dia. 24 ins. in the ground, for ¼ cor. of sec. 24, with brass cap marked

¼ S 24
1914

from which

An aspen 8 ins. diam. bears N.1°20'W. 4.65 chs. dist. marked ¼ S 24 B T.

43.41 The old ¼ sec. cor. here to fore described. I destroy the marks on the tree that stands in sec. 24.

44.50 Enter aspen timber bears E. and W.

54.00 Head of draw 75 ft. below spur drains N.50°E.

56.40 Spur 50 ft. above head of draw projects E.

74.50 Leave aspen enter pine timber bears E. and W.

75.00 Begin abrupt descent bears E. and W.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia. 24 ins. in the ground, for cor, of secs. 13 & 24, T.8 N. R.4 E. with brass cap marked

T 8 N
S 18
S 13 | S 19
S 24
R 4 E | R 5 E
1914

from which

A pine 12 ins. diam. bears S.35°W. 38 lks. dist. marked

T 8 N R 4 E S 24 B T.

A pine 6 ins. diam. bears N.81°W. 41 lks. dist. marked

T 8 N R 4 E S 13 B T.

Land, mountainous,

Soil, on ridges good brown sandy loam, slightly washed

on slopes, stony, underlaid with clay and quartzite st

Timber, aspen and pine.

Mountainous or timbered land 80.00 chs.

August, 7, 1914.

August, 8, 1914. At 8 a.m., apparent time, I set off 41

25' on the lat. arc; 16°18'N. on the decl. arc; and

determine a meridian with the solar at the cor. of secs

13 and 24.

Thence I run

N.0°12'E. on a resurvey line on E. bdy. of secs 13.

Descend abruptly over stony mts. land through pine timb

3.41 Intersect the cor. of secs. 18, and 19, of T.8 N.R.5 E.

here to fore described.

Thence I run

N.0°09'E. on E. bdy. of secs 13.

5.25 Leave pine timber bears E. and W.

5.50 Bottom of "Canyon" 325 ft. below sec. cor. spring branch

6 lks. wide 6 ins. deep runs. N.80 °E.

6.00 Begin abrupt ascent bears E. and W.

20.90 Top of abrupt ascent thence gentle ascent bears E. & W.

22.00 Spur 625 ft. above canyon projects S.60°E.

31.50 Head of draw 75 ft. below spur drains S.50°E.

32.00 Enter aspen timber bears N.80°W. and S.80°E.

38.50 Spur 65 ft. above draw projects S.70°W. 3.00 chs. then S.

40.00 Set an iron post, 3 ft. long, 1 in. in dia. 24 ins. in a

stone mound, (Note; On account of stony formation it is

impossible to dig.) for ¼ cor. of sec. 13, with brass

cap marked

¼ S 13 | 1914

from which

An aspen 8 ins. diam. bears N.80°W. 77 lks. dist. marked

¼ S 13 B T .

An aspen 6 ins. diam. bears N.50°W. 70 lks. dist. marked

¼ S 13 B T .

41.00 Head of draw 25 ft. below spur drains S.75°W.

42.38 The old ¼ sec. cor. here to fore described.

Thence 1 run

N.0°09'W. on E. bdy. of sec. 13.

51.00 Spur 75 ft. above draw projects S.20°E.

59.50 Head of draw 70 ft. below spur drains S. 30°E. also leave aspen timber bears N.45°W. and S.45°E.

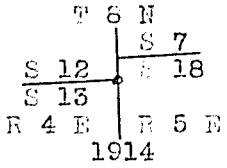
63.00 Dim wood road bears N.45°E. and S.45°W.

64.40 Spur 90 ft. above head of draw projects N.70°E.

65.00 Enter aspen timber bears E and W.

76.00 Leave same bears N.30°W. and S.30°E.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia. 24 ins. in the ground for cor. of secs. 12, & 13, T.8 N.R 4 E. with brass cap marked



from which

An aspen 6 ins. diam. bears S.23°W. 1.13 chs. dist. marked T 8 N R 4 E S 13 B T .

An aspen 6 ins. diam. bears N.68°W. 1.30 chs. dist. marked T 8 N R 4 E S 12 B T..

Land, mountainous,

Soil, on S. 40.00 chs. light poor sandy loam with stones washed on slopes , underlaid with lime stone, on N.40.00 chs. good sandy loam, medium texture, moist , on clay subsoil,

Timber , aspen and pine.

Mountainous or timbered land 80.00 chs.

	From cor. of secs. 12, and 13,
	I run
	N. 0°09'W. on a resurvey line on E. bdy. of sec. 12.
	Descend gently over mountainous land.
2.00	Draw 10 ft. below sec cor. drains N. 50°W.
2.45	Intersect the cor. of secs. 7, 12, 13 and 18, here to fore described, I destroy all markson this cor. that pertain to secs. 12 and 13.
	Thence I run
	N. 0°01'W. on E. bdy. of sec. 12.
10.00	Spur 100 ft. above draw projects N. 45°W.
19.00	Enter aspen timber bears N. 45°W. and S. 45°E.
39.00	Leave same bears N. 80°W. and S. 80°E.
39.50	Draw 200 ft. below spur drains N. 75°W.
40.00	Set an iron post, 3 ft. long, 1 in. in. dia. 24 ins. in the ground, for ¼ cor. of sec. 12, with brass cap marked ¼ S 12 | 1914
	from which
	An aspen 6 ins. diam. bears S. 50°W. 1.11, chs. dist. marked ¼ S 12 B T.
	dig pits 18 X 18 X 12 ins. N. and S. of post, 3 ft. dist, and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
	August, 8, 1914, At this cor. I set off 16°14'30" N. on the decl. arc; and at 12 m. apparent time, observe the sun on the meridian,; the resulting lat. is 41 °26'30".
42.41	The old ¼ sec. cor. here to fore described. This corner will hereafter refer to sec. 7 only.
	Thence I run
	N. 0°04'W. on E. bdy. of sec. 12.
43.50	Enter scrubby aspen timber (too small to mark for B Ts. bears N. 70°W. and S. 70°E.
45.50	Leave same bears N. 60°W. and S. 60°E.
48.50	Point of spur 100 ft. above draw projects W.
56.50	Enter pine timber bears N. 80°E. and S. 80°W.
69.75	Leave same bears N. 80°E. and S. 80°W.

Resurvey of 1st.Guide Meridian E.through T.' N.bet.Rs.4 & 5 E.

Chains.

70.20 Sugar Pine Canyon 400 ft. below spur creek 15 lks. wide 12 ins. deep runs N.85°E.

74.00 Limestone ledge 30 ft.high bears N.45°E.& S.45°W.

80.00 Set an iron post, 3 ft.long, 3 ins. in dia. 24 ins. in the ground, for cor of secs. 1 and 12 . T.8 N.R.4 E. with brass cap marked

T 8 N
S 6
S 1 S 7
S 12
R 4 E R 5 E.
1914

and raise a mound of stone 2½ ft. base 1½ ft. high W. of cor. This cor. is 350 ft. above canyon.

Land, mountainous ,

S .40.00 chs. good sandy loam, medium texture,moist, on clay and limestone base .N.40.00 chs. verystony washed on slopes ,on limestone base.

Timber, aspen and pine .

Mountainous or timbered land ,80.00 chs.

From cor. of secs. 1 & 12 .

I run

N.0°04'W.on a resurvey line on E. bdy. of sec.1.

Ascend over mountainous land .

2.44 Intersect the cor. of secs. 1,6,7 & 12,here to fore described .I destroy all marks on this cor. that pertain to secs. 1 and 12.

Thence I run .

North on E. bdy.of sec.1.

6.00 Enter aspen timber bears N.75°E. and S.75°W.

12.50 Leave same bears E. and W.

20.00 Enter aspen timber bears E. and W.

21.00 Leave same bears E. and W.

40.00 Set an iron post, 3 ft.long, 1 in. in dia. 24 ins. in the ground,for ¼ cor. of sec.1 ,with brass cap marked

¼ S 1
1914

Resurvey of 1st. guide Meridian E. through T.8 N.bet. Rs.4 & 5 E.

Chains.	
	and raise a mound of stone 2½ ft base 2 ft.high W.of cor.
41.50	Spur 450 ft. above sec. cor. projects S.80°E.
42.47	The old ¼ sec. cor. here to fore described.
46.00	Enter aspen timber bears N.60°W. and S.80°E.
65.75	Head of draw 500 ft. below spur drains N.80°E.
72.00	Point of low spur 50 ft. above draw projects N.
75.90	Intersect the C C.of T.8 N.Rs. 4 and 5 E.here to fore described . I destroy all marks on this cor . but leave it standing as a witness point .
85.15	Intersect 2nd. Standard Parallel N. 53 lks. S.89°26'W.of ¼ sec. cor. on S.bdy. of sec . 36,T.9.N.R.4 E. here to fo described.

Set an iron post, 2 ft.long, 3 ins. in dia. 24 ins.in the ground, for closing cor. of T.8 N.Rs.4 & 5 E.with brass cap marked

T 9 N
R 4 E | R 5 E
S 36 | S 31
S 1 C C S 6
R 4 E | R 5 E
1914

from which

An aspen 8 ins. diam. bears S.38°30'E.15 lks. dist.

marked T 8 N R 5 E S 6 B T .

An aspen 6 ins. diam. bears S.29°W.49 lks. dist.

marked T 8 N R 4 E S 1 B T .

Land, mountainous .

Soil,on S. 40.00 chs. light sandy loam with some stones and gravel,underlaid with stone and gravel. N. 45.15 chs. good brown sandy loam, 5 to 20 ins.deep, medium texture, moist, on clay subsoil.

Timber, aspen.

Mountainous or timbered land, 85,15 chs.

John W. Dougall
U.S. Surveyor.

August, 8,1914.

Retracement of E.Bdy. of T.8 N.R 3 E.

Mains.	July, 15,1914. From CC of T.8N.Rs.3 & 4 E. apparently set by Deputy Edward Hanson ,under his (Rejected) contract No.231 dated April,26,1899, here to fore described
	1 retrace .
	South on E. bdy. of sec. 1.
31.54	Fall 32 lks. W. of ½ sec. cor. which is a sandstone 9 X 9 X 10 ins. above ground, firmly set, plainly marked ½ on W. face ,small stone mound, W.of cor.
	Therefore the course of this line is S.0°35'E. and dist.is 31.54 chs.
	July ,15,1914, At this ¼ sec.cor. 1 set off 21°36'N. on the decl.arc; and at 12,m,apparent time, observe the sun on the meridian; the resulting lat. is 41°27' or within 1 ' of the proper lat.
	Moved to ½ sec. cor.
	Thence 1 retrace .
	South on E. bdy. of sec. 1.
39.80	Fall 11 lks.E.of cor. of secs. 1,6,7 and 12. which is a quartzite stone 8 X 10 X 13 ins . lying loose in a mound of stone .plainly marked one Notch on one and 5 notches on opposite edges. not witnessed .
	Therefore the course of this line is S.0°10'W.and dist. is 39.80 chs.

	From cor. of secs. 1,6,7 and 12 .
	1 retrace
	South on E. bdy. of sec. 12.
39.59	Fall 5 lks. W. of ¼ sec. cor. which is a quartzite stone 8 X 15 X 8 ins. above ground, firmly set ,plainly marked ¼ on W. face , stone mound 2 ft. base 1 ft.high W of cor.
	Therefore the course of this line is S.0°04'E.and dist. 39.59 chs.
	July , 15 ,1914.
	July, 16,1914. At 8 a.m. apparent time, 1 set off 41°26' on the lat. arc; 21°28'N.on the decl. arc; and determine

Chains.	
	a meridian with the solar at the ¼ sec. cor. on E.bdy. of sec. 12,
	Thence 1 retrace
	South on E. bdy. of sec. 12.
40.15	Fall 32 lks. E. of cor. of secs. 7,12,13,and 18, which is a sandstone 5 X 25 X 20 ins. above ground, firmly se plainly marked 4 grooves on S. and 2 grooves on N. fac stone mound,2 ft. base 1½ ft. high W. of cor.
	Therefore the course of this line is S.0°28'W. and dist. is 40.15 chs.

	From the cor. of secs. 7,12,13 and 18.
	1 retrace .
	South on E. bdy. of sec. 13.
27.00	July, 16,1914, At this station 1 set off 21°26'N. on the decl.arc; and ,at 12,m.apparent time, observe the sun on the meridian .; the resulting lat. is 41°26'
40.00	After careful search find no trace of ¼ sec. cor.
79.59	Fall 16 lks. E. of cor. of secs. 13,18,19 and 24,which is a sandstone 10 X 10 X 5 ins. above ground, firmly set , plainly marked 3 grooves on N. and S. faces , not witnessed .
	Therefore the course of this line is S.0°07'W. and dist is 79.59 chs.
	---- July, 16,1914,

	July, 17,1914,At 8 a.m., apparent time ,1 set off 41°25 on the lat. arc;21°18'N. on the decl.arc; and determine a meridian with the solar at the cor. of secs. 13,18, 19 and 24.
	Thence 1 retrace
	South on E. bdy. of sec. 24.
39.81	Fall 21 lks. E. of ¼ sec. cor. which is a sandstone 10 X 8 X 6 ins. above ground, firmly set, plainly marked ¼ on W. face ,from which
	An aspen 14 ins. diam. bears N.26°E.52 lks. dist.

Chains.

marked ¼ S 19 B T .

No other accessories found.

Therefore the course of this line is S.0°18'W.and distance is 39.81 chs.

Moved to ¼ sec. cor.

Thence retrace .

South on E. bdy. of sec. 24.

40.50 Fall 14 lks. W. of cor. of secs.19,24,25 and 30,which is a quartzite stone 10 X 12 X 10 ins. above ground, firmly set, plainly marked 4 grooves on N. and 2 grooves on S.faces, stone mound 1½ ft. base 1 ft. high W.of cor.

Therefore the course of this line is S.0°12'E.and dist. is 40.50 chs.

July, 17, 1914, At this cor. 1 set off 21°16' N.on the decl. arc; and, at 12 m.apparent time,observe the sun on the meridian the resulting lat. is 41°24'

From the cor. of secs. 19,24,25 and 30.

1 retrace

South on E. bdy. of sec. 25.

40.85 Fall 27 lks. W.of ¼ sec. cor. which is an aspen tree 7 ins.diam.marked ¼ S.36 on W. should have been marked ¼ S 25 . T 8 N R 4 E S 30 on E.

from which

An aspen 14 ins. diam. bears N.78°E.38 lks. dist. marked ¼ S 30 B T .

Therefore the course of this line is S.0°23'E.and dist. is 40.87 chs.

July, 17, 1914.

July ,18,1914, At 10 a.m. apparent time , 1 set off 41° 24' on the lat. arc;21°07'N. on the decl.arc; and determine a meridian with the solar at the ¼ sec. cor. on E. bdy.of sec.25 .

Thence retrace

South on E. bdy. of sec. 25.

Retracement of East Boundary of T.8 N.R.3 E.

Chains.	
40.97	Fall 10 lks.W. of cor. of secs. 25,30,31 and 36, which i a sandstone 8 X 8 X 4 ins. above ground, firmly set, plainly marked ,1 groove on S.and 5 grooves on N faces not witnessed . Therefore the course of this line is S.0°09'E.and dist. is 40.98 chs.

	From cor. of secs. 25,30,31 and 36. 1 retrace . South on E.bdy. of sec. 36.
21.00	July, 18,1914, At this station,1 set off 21°06'N. on th decl. arc;and at ,12,m.apparent time, observe the sun o the meridian ; the resulting lat. is 41°23'
40.86	Fall 16 lks. W.of ¼ sec. cor. which is a sandstone 12 X 12 X 20 ins. above ground,firmly set, plainly mark ¼ on W. face ,not witnessed . Therefore the course of this line is S.0°14'E. and dist is 40.87 chs. Moved to ¼ sec.cor. Thence 1 retrace South on E. bdy. of sec. 36.
40.26	Fall 7 lks.E. of a limestone 5 X 7 X 15 ins. above ground, firmly set, plainly marked 6 grooves on E.and W and 6 grooves and CC on S. faces,stone mound 2 ft.base 1 ½ ft.high W. of cor. After careful search find no trac of any other cor. in this immediate vicinity. Therefore the course of this line is S.0°06'W.and dist. is 40.26 chs.
	July, 18, 1914.

	Note: It is now evident to me that the East boundary of T.8 N.R.3 E.as monumented by Deputy Edward Hanson is not properly located as topography in no way agrees with the original topography, nor do I accept the C C found marked for T.7 N.Rs.3 & 4 E. as the proper cor. for Tps.7 & 8 N.Rs. 3 & 4 E. I restore the cor. of Tps. 7 & 8 N.Rs. 3 & 4 E.by th

Chains.

method of double proportionate dist.,in accordance with Par.52,Pamphlet on Restoration of Lost or Obliterated Cors.

Retracement of part of E.bdy. of T.7 N.R.3 E.

July, 20,1914, The sky is overcast and solar abservations are impossible,

From the C C .marked for T.7 N.Rs.3 & 4 E.here-to-fore described .

1 run

South on a retracement line bet. secs. 1 & 6.

40.18 Fall 2.24 chs. W. of $\frac{1}{4}$ sec. cor. which isa sandstone 13 X 10 X 10 ins. above ground, firmly set, plainly marked ,$\frac{1}{4}$ on W. face , stone mound, $2\frac{1}{2}$ ft. base 2 ft. high W. of cor.

Therefore the course of this line is S.3°11'E. and dist. is 40.24 chs.

Moved to $\frac{1}{4}$ sec. cor.

Thence 1 retrace

South bet. secs. 1 and 6.

39.45 Fall 1.11 chs. W.of cor. of secs. 1.6.7 & 12, which is a limestone 8 X 8 X 14 ins. above ground, firmly set , plainly marked 1 notch on N. and 5 notches on S edges, stone mound 2 ft. base $1\frac{1}{2}$ ft. high W. of cor.

Therefore the course of this line is S.1°37'E.and dist. is 39.47 chs.

July, 20,1914,

July, 30,1914, The sky is overcast and solar observations are impossible.

From the C C .marked for T.7 N.Rs.3 & 4 E. here-to-fore described

1 retrace ,

West bet. secs. 1 & 36.

Retracement of Part on N. bdy. of T.7 N.R.3 E.

Chains.	
3.60	Spur 50 ft. above CC. projects S.10°W.
10.00	Head of draw 75 ft. below spur drains S.25 °W.
19.40	Spur 45 ft. above draw projects S. also enter scrubby aspen timber bears N. and S.
30.00	Head of draw 65 ft. below spur drains S.10°E. also leave aspen timber bears N. and S.
34.00	Spur 40 ft. above draw projects S.80°W.
35.00	Enter small aspen timber and dense chokecherry and willow underbrush bears N.35°E. and S.35°W.
40.00	After careful search find no trace of ¼sec. cor. Thence descend along N. slope .
65.00	Draw 125 ft. below spur drains N.20°W.
71.00	Point of spur 50 ft. above draw projects N.30°W.
73.00	Leave aspen timber and underbrush bears N.40°W. & S.40°
80.00	After careful search find no trace of cor. of secs. 1,2,35 and 36. left temp. mark.

July,30,1914.

July,31,1914, At 10 a.m. ,apparent time , 1 set. off 41°23' on the lat. arc;18°23'N. on the decl.arc and determine a meridian with the solar at the temp. mark left for cor. of secs. 1,2 35 and 36.

Thence 1 retrace

West on N. bdy. of sec. 2.

Descend over mountainous land.

1.00	Draw 10 ft. below temp. mark for cor. of secs. 1,2,35 & drains N.45°W. also enter aspen timber bears N. and S.
7.00	Spur 75 ft. above draw projects N.45°W.
38.00	Leave aspen timber bears N.40°E. and S.40°W.
39.00	Draw 225 ft. below spur drains S.45°W.
40.00	After careful search find no trace of ¼ sec. cor.
47.10	Spur 150 ft. above draw projects S.40°W.
58.80	Draw 75 ft. below spur drains S.10°W.
62.00	Spur 50 ft. above draw projects S.
70.00	Draw 300 ft. below spur drains S.
80.00	Spur 160 ft. above draw projects S

Chains.
80.24 Fall 30 lks. S. of cor. of secs. 2,3,34 &35, which is a sandstone 6 X 8 X 14 ins. firmly set in a mound of stone plainly marked 2 notches on E. and 4 notches on W. edges small stone mound, W. of cor.

Therefore the course of this line from C C marked for T.7 N.Rs.3 & 4 E. to the cor. of secs. 2,3,34 and 35, is N.89°54'W. and dist. is 160.24 chs.

July, 31,1914,

Note: Restoration of the cor. of Tps.7 & 8 N.Rs.3 & 4 E.

I determine the position for true cor. of Tps. 7 & 8 N. Rs.3 & 4 E. with reference to the C C marked for T.7 N. Rs. 3 & 4 E. ,on the meridional proportionment .

The total distance from CC. of T.8 N.Rs.3 & 4 E. (Note: For a description of this closing cor. see page 86 these notes.)

on Second Standard Parallel N. to the ¼ sec. cor. bet. secs. 1& 6,on Range line bet. Tps. 7 N.Rs.3 & 4 E.is 524.04 chs. The record dist. is 520.44 chs.

The Proportion will therefore be

$$\frac{\text{Record}}{\text{Measured}} = \frac{520.44}{524.04} = \frac{40.30}{X} \qquad X = 40.58 \text{ chs.}$$

Thus the meridional proportionment places the cor. 40 lks. N. of the CC marked for T.7 N.Rs.3 & 4 E.

I determine the position for the cor. of Tps. 7 & 8 N Rs. 3 & 4 E. with reference to the CC. marked for T 8 N Rs.3 & 4 E. on the latitudinal proportionment.

The total distance from cor. of secs. 5,6,31 and 32, (Note: For distance from CC. marked for T.7 N.Rs.3 & 4 E. to cor. of secs. 5,6,31 and 32,on S. bdy. of T.8 N.R 4 E. See page 45 these notes.)

to cor. of secs. 2,3,34 and 35,Tps. 7 & 8 N.R.3 E. is 223.55 chs. The record distance is 222.00 chs.

Restoration of the Cor. of Tps. 7 & 8 N.Rs.3 & 4 E.

Chains. The proportion will therefore be

$$\frac{\text{Record}}{\text{Measured}} = \frac{222.00}{223.00} = \frac{62.00}{X} \qquad X = 62.43 \text{ chs.}$$

Thus the latitudinal proportionment places the cor. 63.31 - 62.43 = 0.88 lks. E. of the CC.marked for T.7 Rs. 3 & 4 E.

The true position for the cor. of Tps.7 & 8 N.Rs. 3 & 4 E. is therefore 88 lks. E. and 40 lks. N. of the CC. marked for T.7 N.Rs. 3 & 4 E. where 1

Set an iron post, 3 ft.long 3 ins. in dia. 24 ins. in the ground for the true cor.of Tps. 7 & 8 N.Rs.3 & 4 E. with brass cap marked

```
      T 8 N
   S 36 | S 31
R 3 E---+---R 4 E
   S  1 | S 6
      1914
```

raise a mound of stone 3 ft. base 2 ft. high S.of cor.

Note : From retracements it is found that a line extended N. from the Cor. of Tps. 7 & 8 N.Rs.3 & 4 E. will intersect Second Standard Parallel N. 14.93 chs. N.89°43'W. of CC of T.8 N.Rs. 3 and 4 E.and distance (Note: The description of this CC of T.8 N.Rs. 3 & 4 E is on page 86 these notes.) is 483.28 chs. therefore the course from the cor. of Tps. 7 & 8 N.Rs. 3 and 4 E . just restored to CC. of T.8 N. Rs.3 & 4 E. is N.1°46' E.and distance is 483.51 chs.

I now resurvey the E.bdy. of T.8 N.R.3 E.as follows setting ¼ sec. and sec.cors at intervals of 40.28 chs. proportional distance of length of bdy.

$$\frac{\text{Record } 480.14}{\text{Measured } 483.51} = \frac{40.14}{X} = 40.43 \text{ chs. for dist.of N.}$$

483.51 - 40.43 = 443.08 ÷ 11 = 40.28 chs. for each ¼ m

Chains.	
	August,5,1914, At 9 a.m.,apparent time,I set off 41°23' N. on the lat. arc; 17°06'N. on the decl. arc; and determine a meridian with the solar at the cor.of Tps.7 and 8 N.Rs. 3 & 4 E. just restored .
	Note ; From previous retracements I know that closing cors. will be set on the West boundary of T.8.N.R.4 E. therefore the ¼ sec. and sec. cors. are marked for T.8 N.R 3 E . only .
	Thence I run
	N.1°46'E. on a true line bet. secs. 31 and 36.
	Ascend along E. slope over mountainous land .
8.00	Enter dense growth of chokecherry underbrush bears E.& W.
10.00	Spur 80 ft. above Tp.cor. projects S.80°E.
15.00	Small draw 40 ft. below spur drains.E.
20.70	Spur 50 ft.above draw projects E.and enter aspen timber.E.& W.
26.00	Draw 45 ft. below spur drains E.
28.20	Spur 60 ft. above draw projects E.
40.28	Set an iron post,3 ft.long, 1 in. in dia.24 ins. in the ground for ¼ sec. cor. with brass cap marked .
	¼ S 36 | 1914
	from which
	An aspen 14 ins. diam. bears N.89°30'W.1.62 chs. dist. marked ¼ S 36 B T .
41.40	Draw 40 ft. below ¼ sec. cor. drains S.40°E.
42.00	Leave aspen timber bears N.75°E. & S.75°W.
55.50	Spur 160 ft. above draw projects S.65°E.
58.50	Draw 35 ft. below spur drains S.80°E. leave timber bearsE.& W.
80.56	Set an iron post, 3 ft.long.3 ins. in dia. 24 ins. in the ground,for cor. of secs. 25 & 36 ,of T.8 N.R.4 E. with brass cap marked
	T 8 N S 25 | S 30 S 36 | S 31 R 3 E | R 4 E 1914
	from which

Chains.	
	An aspen 4 ins. diam. bears S.73°W.32 lks. dist. marked T 8 N R 3 E S 36 B T .
	An aspen 10 ins. diam. bears N.25°W.31 lks. dist. marked T 8 N R 3 E S 25 B T
	Land, mountainous , draining S. and E.
	Soil, good brown sandy loam with some stones underlaid with clay and gravel.
	Timber,aspen underbrush chokecherry.
	Mountainous or timbered land 80.56 chs.
	August 5, 1914, At this cor. I set off 17°04'N.on the decl arc; and at 12,m. apparent time , observe the sun on the meridian ;the resulting lat .is 41°23' or within 1' of the proper lat.

	From the cor . of secs. 25 & 36. on E. bdy. of T 8 N R I run
	N.1°46'E on a true line bet. secs. 25 and 30.
	Ascend through aspen timber and dense underbrush of chokecherry.
10.00	Spur 60 ft. above sec. cor. projects E.10 chs.
26.90	Draw 75 ft. below spur drains S.80°E.
31.00	Spur 30 ft. above draw projects S. 15°W.
37.70	Saddle in spur 30 ft. deep.
37.90	Road Ogden to Woodruff bears N.45°E.and S.45°W.
40.28	Set an iron post, 3 ft.long, 1 in. in dai. 24 ins. in the ground, for ¼ secc. cor. with brass cap marked.
	¼ S 25 | 1914
	from which
	An Aspen 8 ins. diam. bears N.33°W.40 lks. dist. marked ¼ S 25 B T .
80. 56	Set an iron post, 3 ft. long. 3 ins. in dia. 24 ins. in the ground, for cor. of secs . 24 and 25 of T.8 N.R 3 E with brass cap marked

Resurvey of East Boundary of T.8 N.R.3 E.

Chains.

T 8 N
S 24 | S 19
S 25 | S 30
R 3 E | R 4 E.
1914

from which

An aspen 4 ins. diam. bears S.63°W. 8 lks. dist. marked

T 8 N R 3 E S 25 B T .

An aspen 6 ins. diam. bears N.40°W.34 lks. dist. marked

T 8 N R 3 E S 24 B T .

Land , mountainous,. draining S and SE.

Soil, good brown sandy loam , 3 to 20 ins. deep,

medium texture , moist ,-underlaid with clay and sandstone.

Timber, aspen undergrowth chokecherry.

Mountainous or timbered land, 80.56 chs.

August, 5 ,1914.

August ,6,1914,At 8 a.m. ,apparent time , I set off 41°24'on the lat. arc; 16°50'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs 24 and 25, T 8 N.R.3 E.

Thence I run

N.1°46'E. on a true line bet. secs. 19 and 24.

Ascend over mountainous land through aspen timber and chokecherry underbrush .

10.00 Spur 40 ft. above sec. cor. projects S.75°W.

23.00 Enter pine timber bears E. and W.

26.00 Leave timber bears E. and W.

29.00 Draw100 ft. below spur drains W. also enter aspen timber bears E. and W.

40.28 Set an iron post, 3 ft. long, 1 in in dia. 24 ins. in the ground, for ¼ sec. cor. with brass cap marked

¼ S 24
1914

from which

An aspen 6 ins. diam. bears S.82°W.56 lks. dist. marked ¼ S 24 B T .

Chains.	
49.00	Ridge 60 ft. above ¼ sec. cor. bears E. and W. divide bet. Cache and Weber Counties.
56.00	Head of small draw drains N.45°W.
60.00	Small spur 40 ft. above draw projects W.2.00 chs. then N.45°W.
62.00	Head of draw 50 ft. below spur drains W.
75.20	Spur 65 ft. above draw projects N.80°W.
80.56	Set an iron post, 3 ft. long 3 ins. in dia. 24 ins. in the ground, for cor. of secs. 13 and 24 of T.8 N.R.3 E. with brass cap marked

T 8 N
S 13 | S 18
S 24 | S 19
R 3 E | R 4 E
1914

from which

An aspen 8 ins. diam. bears S.38°30'W. 47 lks. dist. marked T 8 N R 3 E S 24 B T .

An aspen 12 ins. diam. bears N.34°W.33 lks. dist. marked T 8 N R 3 E S 13 B T .

1/4

Land , mountainous ,

Soil, good brown sandy loam , 3 to 18 ins. deep, medium texture, moist, on clay subsoil, .

Timber aspen , chokecherry underbrush.

Mountainous or timbered land, 80.56 chs.

August, 6 , 1914, At this cor. I set off 16°48'N. on the decl. arc; and at 12 m. apparent time., observe the sun on the meridian ; the resulting lat. is 41°25'.

From the cor. of secs .13 and 24. of T.8 N.R.3 E.

I run

N.1°46'E. on a true line bet. secs. 13 and 18.

Descend gently through aspen timber and chokecherry underbrush .

4 10	Head of small draw 20 ft. below sec. cor. drains N.45°E
12.00	Spur 40 ft. above draw projects N.45°E
19.00	Begin abrupt descent bears N.20°W. and S.20°E.

Chains.	
35.60	Draw 225 ft. below spur drains N.80°W.10 chs. then N.45°W.
40.28	Set an iron post, 3 ft.long, 3 ins. in dia. 24 ins. in the ground, for ¼ sec. cor. with brass cap marked

¼ S 13 | 1914

from which

An aspen 4 ins. diam. bears S.82°W.11 lks. dist. marked ¼ S 13 B T .

41.00	Leave aspen timber bears E. and W.
46.50	Spur 110 ft.above draw projects W.
47.00	Enter aspen timber bears E. and W.
67.30	Draw 300 ft. below spur drains W.
74.00	Spur 250 ft. above draw projects W.
75.00	Draw 60 ft. below spur drains W.
80.56	Set an iron post, 3 ft. long, 3 ins. in dia. 24 ins. in the ground, for, cor. of secs. 12, & 13 ,of T.8 N.R.3 E. with brass cap marked

T.8 N.
S 12 | S 7
S 13 | S 18
R 3 E | R 4 E
1914

from which

An aspen 4 ins. diam. bears S.81 °W.27 lks. dist. marked T 8 N.R.3 E S 13 B T .

An aspen 4 ins. diam. beard N.36°W.27 lks. dist. marked T 8 N.R.3 E S 12 B T .

Land ,mountainous,

Soil washed and stony on slopes ridges with good sandy loam , 3 to 14 ins. deep, underlaid with gravel and clay.

Timber aspen and underbrush chokecherry.

Mountainous or timbered land, 80.56 chs.

August, 6, 1914.

August ,7, 1914, At 8 ,a.m. apparent time, I set off 41°26' on the lat. arc; 16°35'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs.

Chains.

12 & 13 of T.8 N.R.3 E.

Thence I run

N.1°46'E.on a true line bet. secs.7 & 12 .

Ascend over mountainous land through aspen timber .

1.00 Spur 10 ft. above cor. projects W.

9.70 Draw 90 ft. below spur drains W.

16.00 Spur 60 ft. above draw projects W.also enter dense willow and chokecherry undergrowth bears E.& W.

22.00 Draw 75 ft. below spur drains N.45°W.

23.50 Spur 50 ft. above draw projects N.60°W.

30.00 Head of draw 75 ft. below spur drains N.50°W.

32.00 Leave underbrush and aspen timber bears N.45°W.& S.45°E

34.00 Spur 40 ft.above draw projects N. 60°W.

39.85 Spring Branch 2 lks. wide 2 ins. deep, in bottom of "Skunk Creek Canyon" 175 ft. below spur drains S.80°W.

40.28 Set an iron post, 3 ft.long. 1 in.in dia. 24 ins. in th ground, for ¼ sec. cor. with brass cap marked

¼ S 12 | 1914

raise a mound of stone 2½ ft. base 2 ft. high W. of cor

40.60 Road Ogden to Huntsville, bears N.80°E. & S.80°W.

48.60 Enter scrubby aspen timber bears E. and W.

54.00 Leave same bears E. and W.

61.00 Enter aspen timber and dense underbrush of willows and chokecherry bears N.80°E. and S.80°W.

64.00 Spur 550 ft. above canyon projects S.75°W.

80.56 Set an iron post, 3 ft. long, 3 ins.in.dia. 24 ins. in the ground ,for cor. of secs. 1 and 12.of T.8 N.R.3 E . with brass cap marked

T 8 N
S 1 | S 6
S 12 | S 7
R 3 E | R 4 E
1914

from which

An aspen 16 ins. diam. bears S.29°W.46 lks.dist.

Chains.

marked T 8 N R 3 E S 12 B T .

An aspen 16 ins. diam. bears N.10°W.64 lks. dist.

marked T 8 N R 3 E S 1 B T .

Land, mountainous.

Soil, sandy loam with some stones and small outcroppings on slopes,ridges with light brown sandy loam,4 to 16 ins. deep.medium texture, moist, underlaid with clay and gravel.

Timber, aspen ;undergrowth willows and chokecherry.

Mountainous or timbered land, 80.56 chs.

August.7,1914,At this cor. 1 set off 16°31'N.on the decl. arc;and at 12 m,apparent time. observe the sun on the meridian ; the resulting lat. is 41°27'

From the cor. of secs. 1 and 12 of T.8 N.R.3 E.

1 run

N.1°46'E.on a true line bet. secs. 1 and 6.

Descend over mountainous land through aspen timber and chokecherry and willow undergrowth.

20.75 Leave aspen timber and undergrowth bears E. and W.

23.65 Woven wire fence bears E. and W.

29.70 Spring branch 3 lks. wide 2 ins.deep ,flows W. in bottom of " Blake Hollow " 325 ft. below sec.cor.

29.80 Spring of good water bears N.67°30'E.1.70 chs. dist.

N.W. cor. of forest rangers cabin bears N.79°30'E.1.78 chs. dist.

31.25 Wire fence bears N. 75°E.and S. 75°W.

31.50 Enter scattering aspen timber and chokecherry underbrush bears E & W.

40.28 Set an iron post, 3 ft.long. 1 in.in dia. 24 ins. in the ground, for ¼ sec. cor. with brass cap marked

¼ S 1 | 1914

from which

An aspen 5 ins. diam. bears S.49°30'W.34 lks. dist.

marked ¼ S 1 B T .

Resurvey of East Boundary of T.8 N .R.3 E.

Chains.	
50.30	Leave aspen timber and underbrush bears N.60°E. and S.
57.75	Spur 200 ft above "Blake Hollow" projects N.75°W.
60.00	Enter scattering aspen timber and willow underbrush bears N.75°W. and S. 75°E.
79.00	Leave aspen timber and underbrush bears N.65°W. and E.
80.71	Intersect 2nd. Standard Parallel N. 7.86 chs. N.89°43' of standard cor. of T.9 N.R.3 & 4 E. here to fore desc Set an iron post, 3 ft. long, 3 ins. in dia. 24 ins. the ground, for closing cor. of T.8 N Rs.3 & 4 E. With brass cap marked

```
          T 9 N
     R 3 E | R 4 E
       S 36 | S 31
     ---------------
      C | C
    S 1 | S 6
  R 3 E | R 4 E
      T 8 N
      1914
```

from which

An aspen 5 ins.diam. bears S.68°30'E.97 lks. dist. marked T 8 N R 4 E S 6 B T .

An aspen 7 ins. diam. bears S.49°45'W.1.30 chs. dist. marked T 8 N R 3 E S 1 B T .

Land ,mountainous.

Soil, sandy loam, 4 to 15 ins. deep, medium texture, moist, underlaid with clay and gravel.

Timber aspen, underbrush chokecherry and willows.

Mountainous or timbered land, 80.71 chs.

Thos. C. Rathbone
U.S. Transitman
August 7, 191

Boundaries of T.8 N.R.4 E.

Latitudes, Departures, and Closing Errors.

Lines Designated	True Bearing	Dist.	Latitudes, N.	Latitudes, S.	Departures. E.	Departures. W.
		chs.	chs.	chs.	chs.	chs.
South Boundary	S.86°35'W.	40.39	.....	2.52	.....	40.31
" "	S.89°50'W.	40.30	.....	.11	.....	40.30
" "	S.89°40'W.	40.15	.....	.23	.....	40.15
" "	S.89°44'W.	40.39	.....	.19	.....	40.39
" "	S.89°52'W.	40.06	.....	.09	.....	40.06
" "	S.89°54'W.	39.73	.....	.07	.....	39.73
" "	N.89°53'W.	40.16	.08	.....	.....	40.16
" "	S.89°59'W.	39.48	.....	.01	.....	39.48
" "	S.89°58'W.	80.18	.....	.04	.....	80.18
" "	N.89°40'W.	62.43	.36	.....	.....	62.43
West Boundary	N. 1°46'E.	483.51	483.27	.....	14.91	.....
2d St.Par.S.P.4 E.	S.89°43'E.	7.86	.....	.04	7.86	.....
" "	S.89°42'E.	159.70	.....	.84	159.70	.....
" "	East	40.27	.....	.....	40.27	.....
" "	N.89°51'E.	40.28	.10	.....	40.28	.....
" "	N.89°30'E.	40.05	.35	.....	40.05	.....
" "	East	40.14	.....	.....	40.14	.....
" "	N.89°26'E.	119.91	1.19	.....	119.90	.....
East Boundary	South	82.71	.....	82.71	.....	.....
" "	S. 0°04'E.	40.03	.....	40.03	.05	.....
" "	S. 0°01'E.	39.96	.....	39.96	.01	.....
" "	S. 0°09'E.	40.07	.....	40.07	.10	.....
" "	S. 0°09'W.	38.97	.....	38.97	.....	.10
" "	S. 0°12'W.	160.30	.....	160.30	.....	.56
" "	S. 0°04'W.	80.29	.....	80.29	.....	.09
Convergency					.63	
Totals			485.35	486.47	463.90	463.94
				485.35		463.90
Errors in lat.and dep.				1.12		.04

Blank

Page

Chains.	
	Knowing from retracing the exteriors of this Tp. that a Sectional Correction Line will be necessary .
	August ,8 ,At 9 h .a.m.,apparent time, I set off 41°23' on the lat. arc; 16°17'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 25 & 36 here-to-fore described ,set on the E.bdy. of the Tp. 77.18 chs. N.0°04'E. of the cor. of Tps. 7 & 8 N.Rs.4 & 5 E.
	Thence I run, on sectional correction line West, on the West, bet. secs. 25 and 36.
	Ascend gently through aspen timber ,
6 00	Top of spur 100 ft. above sec. cor. projects N.85°E.
	Thence descend gently along top of N.slope of spur .
28 00	Leave aspen timber bears N. and S.
30 00	Begin steeper descent bears N.75°E. and S.75°W.
36 00	Enter aspen and pine timber bears N.& S.
40 00	Set an iron post,3 ft.long, 1 in.in dia. 24 ins. in the ground ,for ¼ sec. cor. with brass cap marked

S 25
¼
S 36
1914

from which

An aspen tree 8 ins. diam. bears N.13°E.31 lks. dist. marked ¼ S25 B T .

A pine tree 12 ins. diam. bears S.14°W. 36 lks. dist. marked ¼ S 36 B T .

43 00	Leave timber bears N.10°W.& S.10°E.
47 60	Spring branch 15 lks. wide 6 ins. deep in canyon 300 ft. below spur drains N.40°E.
55 00	Enter scattering pine timber bears N. 40°E.& S.40°W.
65 50	Top of spur 125 ft. above canyon projects N.45°E.
75 00	Leave timber bears N. and S.
80 00	Set an iron post, 3 ft.long. 2 ins. in dia. 24 ins. in the ground for, cor. of secs. 25,26,35 & 36 , with brass cap marked,

Chains.

T 8 N	R 4 E
S 26	S 25
S 35	S 36

1914

and raise a mound of stone 2½ ft.base 2 ft.high W.of co

Land ,rolling and broken mountains.draining N.E.

Soil ,good sandy loam ,medium texture , moist , under-laid with limestone and clay.

Timber ,aspen and pine,

Mountainous or timbered land 80 00 chs.

August,8,At this cor. I set off 16°15'N.on the decl.arc and at 12 m.apparent time, observe the sun on the meridian the resulting lat. is 41° 23' or within 1'of the proper latitude.

August ,8,1914.

August 10,1914, At 9 h.a.m. ,apparent time,I set off 41° 23' N. on the lat. arc; 15°42'N. on the decl.arc;and determine a meridian with the solar at the cor. of secs 25,26,35 & 36.

Thence I run, on sectional correction line,

West,bet. secs. 26 and 35.

Descend gently along N. slope .

12 30 Bottom of draw 75 ft. below sec.cor. spring branch 5 ft wide 3 ins. deep runs N.80°E.

12 80 Wood road bears N.80°E. and S. 80°W.

20 40 Point of spur 80 ft.above draw projects S.

37 80 Small draw 60 ft. below point of spur drains.S.

40 00 Set an iron post, 3 ft.long, 1 in. in dia. 24 ins. in the ground, for ¼ sec.cor. with brass cap marked,

S 26
¼
S 35
1914

and raise a mound of stone 2 ft. base 1 ½ ft.high N. of cor.

40 50 Top of low spur projects S.

51 80 Mouth of draw 75 ft. below spur drains S.50°E.also ente aspen timber bears N.45°W.and S.45°E.

Subdivision of T.8 N.R.4 E.

Chains.	
61 00	Top of low spur 90 ft. above draw projects S.45°E.
77 00	Draw 65 ft. below spur drains S.60°E.
77 50	Old wood road bears N.60° W. and S.60°E.
80 00	Set an iron post, 3 ft.long, 2 ins. in dia. 24 ins. in t the ground,for cor. of secs. 26,27,34 and 35, with brass cap marked

T 8 N R 4 E
S 27 | S 26
S 34 | S 35
1914

from which ,

An aspen tree 12 ins. diam. bears N.26°E.34 lks. dist. marked T 8 N R 4 E S 26 B T .

AAn aspen tree 18 ins. diam. bears S.47°E.33 lks. dist . marked T 8 N R 4 E S 35 B T .

An aspen tree 16 ins. diam. bears S.1°W.33 lks. dist. marked T 8 N R 4 E S 34 B T .

An aspen tree 18 ins. diam. bears N.28°W. 47 lks. dist. marked T 8 N R 4 E S 27 B T.

Land ,rolling mountains ,

Soil, good brown sandy loam, medium texture , moist, underlaid with clay, slightly washed on slopes ,

Timber aspen.

Mountainous or timbered land 80 00 chs.

West on a sectional correction line bet.secs. 27 and 34.

Ascend through aspen timber over rolling mts.land.

16 20	Top of ridge 100 ft. above sec. cor. bears N.10°W.and S. 10°E .
23 25	Wood road bears N.10°W.and S.10°E.
40 00	Set an iron post, 3 ft.long, 1 in. in dia. 24 ins. in the ground for ¼ sec .cor. with brass cap marked .

S 27
¼
S 34
1914

from which

An aspen tree 10 ins. diam. bears N.6°W.17 lks. dist.

Subdivision of T.8 N. R.4 E.

Chains.	
	marked ¼ S 27 B T .
	Anaspen tree 6 ins. diam. bears S.12 °W.34 lks. dist.
	marked ¼ S 34 B T .
40 50	Head of hollow 10 ft. below ¼ sec. cor. drains SW .
46 90	Top of spur 70 ft. above hollow projects S. also enter
	chokecherry underbrush bears N. and S.
51 90	Head of draw 110 ft. below spur drains S. 5 chs. then SW
52 00	Leave choke cherry underbrush bears N. and S.
59 50	Top of spur 100 ft. above hollow or draw projects S.
68 50	Head of draw 60 ft. below spur drains S.
74 75	Top of spur 110 ft above draw projects S.20°W.
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, with brass
	cap marked

T 8 N R 4 E
S 28 | S 27
S 33 | S 34
1914

from which

An aspen 12ins. diam. bears N.8°E.29 lks. dist.
marked T 8 N R 4 E S 27 B T .

An aspen tree 14 ins. diam. bears S.67°E.36 lks. dist.
marked T 8 N R 4 E S 34 B T .

An aspen tree 10 ins. diam. bears S.81°W.19 lks. dist.
marked T 8 N R 4 E S 33 B T ?.

An aspen tree 12 ins. diam. bears N.55°W.24 lks. dist.
marked T 8 N R 4 E S 28 B T .

E. 40 chs. rolling mts. land, with good sandy loam, moist, medium texture, underlaid with clay. W. 40. chs. Broken mts. washed on slopes, valleys with good sandy loam, underlaid with limestone and gravel.

Timber, aspen, underbrush chokecherry.

Mountainous or timbered land 80 00 chs.

August, 10, 1914,

August, 11. 1914, At the cor. of secs. 27,28,33 &34, I set off 15 °22'N. on the decl. arc; and at 12 m. apparent

Chains.	
	time, observe the sun on the meridian, theresulting lat. 41°24' N. or within 1' of the proper latitude.
	Thence I run
	West on a sectional correction line bet. secs. 28 &33,
	Descend over broken mountainous land through aspen timber.
7 00	Begin to descend abruptly, bears N. and S.
14 00	Leave aspen enter pine timber bears N.& S.
19 00	Leave timber at foot of abrupt descent bears N.& S.
19 30	Bottom of canyon 400 ft. below sec. cor. spring branch 4 lks. wide 3 ins. deep runs S.
31 60	Top of spur 275 ft. above canyon projects S.
36 80	Head of draw 75 ft. below spur drains S.20ºE. also enter aspen timber bears N. and S.
40 00	Set an iron post, 3 ft. long, 1 in. in dia. 24 ins. in the ground, for ¼ sec. cor. with brass cap marked

S 28
¼

S 33
1914

from which

An aspen tree 8 ins. diam. bears N.22°W.17 lks. dist. marked ¼ S 28 B T .

An aspen tree 7 ins. diam. bears S.39°E.40 lks. dist. marked ¼ S33 B T .

45 00	Top of spur 125 ft. above draw projects S.
57 00	Enter pine timber among the aspen bears N. and S.
64 00	Draw 250 ft. below spur spring branch 2 lks. wide 1 in deep runs S.30°W.
65 00	Point of spur 25 ft. above draw projects S. also leave pine timber among aspen timber bears N.10'W .&S.10°E.
67 30	Draw 50 ft. below spur drains S.
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 & 33, with brass cap marked

Subdivision of T.8 N .R.4 E.

Chains.	
	T 8 N R 4 E. S 29 | S 28 S 32 | S 33 1914
	from which
	An aspen tree 6 ins. diam. bears N.26°E.27 lks. dist.
	marked T 8 N R 4 E S 28 B T .
	An aspen tree 5 ins. diam. bears S.32°E.35 lks. dist.
	marked T 8 N R 4 E S 33 B T .
	An aspen 6 ins. diam. bears S.19°W. 40 lks. dist.
	marked T 8 N.R 4 E S 32 B T .
	An aspen 10 ins. diam. bears N.26°30'W.37 lks. dist.
	marked T 8 N R 4 E S 29 B T .
	Land , broken and mountainous ,ridges with light sandy
	soil , dry ,underlayed with limestone and gravel, washe
	on slopes ,valleys and canyons stony.
	Timber ,aspen and scattering pine .
	Mountainous or timbered land 80 00 chs.
	August,11, 1914,

	August , 12, 1914, The sky is partly overcast and furthe
	solar observations are impossible.
	From the cor. of secs .28,29,32 and 33,
	1 run
	West,on a sectional correction line bet. secs. 29 & 32
	Ascend through aspen timber over mountainous land.
1 00	Top of spur 40 ft. above sec. cor., projects S.
17 60	Bottom of canyon 400 ft. below spur drains S.10°E.
18 00	Leave timber bears N. and S.
	Thence ascend abruptly,
22 00	Ascent becomes less abrupt, bears N. and S. also enter
	pine and aspen timber bears N.10°W. and S.10°E.
32 50	Leave pine timber continue in aspen timber.bears N.& S.
40 00	Top of Spur 500 ft.above canyon projects S.10°E.
	Set an iron post, 3 ft.long, 1 in. in dia. 24 ins. in
	the ground, for ¼ sec. cor. with brass cap marked,

Subdivision of T.8 N.R.4 E.

Chains.

S 29
S 32
1914,

from which

An aspen tree 10 ins. diam. bears N.4°E. 17 lks. dist.
marked ½ S 29 B T .

An aspen tree 7 ins. diam. bears S.8°W.1.34 chs. dist.
marked ½ S 32 B T .

47 60 Draw 300 ft. below spur drains S30°E.

52 00 Dim wood road bears N .and S.

63 00 Top of ridge 450 ft. above draw bears N. and S.

70 00 Enter dense choke cherry undergrowth bears NW.& SE.

80 00 Set an iron post, 3 ft.long, 2 ins. in dia. 24 ins. in the ground ,for cor. of secs. 29,30,31 & 32 ,with brass cap marked ,

T 8 N R 4 E
S 30 | S 29
S 31 | S 32
1914

from which

An aspen tree 5 ins. in diam. bears N.8°30'W.29 lks. dist.
marked T 8 N R 4 E S 29 B T .

An aspen tree 5 ins. diam. bears S.28°E.30 lks. dist.
marked T 8 N R 4 E S 32 B T .

An aspen tree 6 ins. diam.bears S52°W.24 lks dist.
marked T 8 N R 4 E S 31 B T .

An aspen tree 6 ins. diam. bears N.48°E.46 lks. dist.
marked T 8 N R 4 E S 30 B T .

This cor .is 300 ft. below ridge.

Land ,mountainous and broke, ridges with good rich brown loam .slopes washed and stony , valleys and canyons stony and gravelly,

Timber ,aspen and pine ,underbrush chokecherry.

Mountainous ,or timbered land 60 00 chs.

August ,12. 1914,

August, 13 ,1914, At 9 h ,a.m. ,apparent time , 1 set.

Subdivision of T.8 N.R.4 E.

Chains.	
	off 41°23'N. on the lat.arc;14°49'N. on the decl.arc;
	and determine a meridian with the solar at the cor. of
	secs. 29,30,31 & 32 .
	Thence I run
	West on a sectional correction line bet. secs. 30 & 31.
	Descend through aspen timber and choke cherry underbru
18.00	Draw 500 ft. below sec. cor. drains S.IO°W.
25.00	Top of spur 300 ft. above draw projects S.
35.20	Draw 250 ft. below spur drains S. and enter dense
	under growth of willows with chokecherry bears N. and S.
40.00	Set an iron post, 3 ft. long, 1 in. in dia. 24 ins. in t
	ground, for ¼ sec. cor. with brass cap marked,

S 30
¼

S 31
1914

from which

An aspen tree 6 ins. diam. bears N.IO°30'E.21 lks. dist. marked ¼ S 30 B T .

An aspen tree 8 ins. diam. bears S.4°E.26 lks. dist. marked ¼ S 31 B T .

42.20	Top of spur 50 ft. above ¼ sec. cor. projects S.
54.40	Draw 300 ft. below spur drains S.
60.88	Intersect W.bdy. of the Tp. 59 lks. S.1°46'W. of cor. of
	sections 25 and 36. here-to-fore described ,
	Set an iron post ,3 ft. long,2 ins. diam. 24 ins. in th
	ground , for closing cor. of secs.30 & 31 ,with brass
	cap marked

T 8 N
S 25
S 30
S 36 C
C
S 31
R 3 E
R 4 E
1914.

from which

An aspen tree 6 ins. diam. bears N.63°E.40 lks. dist. marked T 8 N R 4 E S 30 B T .

An aspen tree 6 ins. diam. bears S37°E.18 lks. dist. marked T 8 N.R.4.E.S.31 B T .

Subdivision of T.8 N., R.4 E.

Chains. Land, mountainous.

Soil on ridges, good rich loam, medium texture, moist, underlaid with clay and limestone. On slopes slightly washed. In valleys and draws, good brown, sandy loam, underlaid with clay.

Timber, aspen,

Undergrowth, chokecherry and willows.

Mountainous, or timbered land 60.88 chs.

August 13, 1914: At this colosing cor. I set off 14° 47' N. on the decl. arc; and at 12 M. apparent time, observe the sun on the meridian; the resulting lat. is 41° 23'

August 13, 1914.

Thos. O. Hawthorne

U.S. Transitman.

August 8, 1914: From the cor. of secs. 25, 26, 35, and 36, I run

S. 0° 04' W. on a random line bet. secs. 35 and 36

40.00 Set temp. ¼ sec. cor.

79.83 Intersect S. bdy. of Tp., 10 lks. S. 89° 50' W. of the cor. of secs. 35 and 36, heretofore described.

Thence I run

North on a true line bet. secs. 35 and 36,

Descend through aspen timber.

7.00 Draw 80 ft. below sec. cor.; spring branch 3 lks. wide, 2 ins. deep, runs N. 40° W.

14.30 Point of spur, 50 ft. above draw, projects W. 5 chs.

27.70 Draw, 75 ft. below spur, spring branch 5 lks. wide, 3 ins. deep, runs N. 45° E.

Leave timber, bears N. 45° E. and S. 45° W.

35.40. Top of spur, 100 ft. above draw, projects E. 10 chs.

Enter scattering aspen and pine timber, bearing E. and W.

39.83 Set an iron post, 3 ft. long, 1 in. in dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked

¼ S 35 | S 36
1914

Subdivision of T.8 N.R.4 E.

Chains.	
	from which
	An aspen tree 6 ins.diam.bears N.15° E.1.90 chs. dist.,marked ¼ S 36 B T
	A pine tree 6 ins.diam.bears N.60° W.1.25 chs. dist., marked ¼ S 35 B T
40.85	Draw, 75 ft.below spur, spring branch 2 lks.wide, 1 in. deep runs E.
41.00	Enter heavy aspen and leave pine timber,bearing E.and W.
64.75	Top of spur, 65 ft.above draw, projects NE.
	Leave aspen; enter pine timber bearing E.and W.
75.00	Leave timber, bearing E.and W.
79.83	The cor.of secs.25,26,35, and 36.
	Land, broken and hilly.
	Soil on ridges light, poor sandy, underlaid with limestone; washed on slopes; draws, good, brown sandy loam, with some gravel.
	Timber, aspen and pine.
	Mountainous, or timbered land 79.83 chs.
	August 8, 1914.
	August 10,1914:At 8h a.m.apparent time I set off 41°23' N.on the lat.arc;15°43'N.on the decl.arc;and determin a meridian with the solar at the cor.of secs.25,26,35 and 36. Thence I run
	N.0°05'E.bet.secs.25 and 26
	Descending gently over mountainous land.
1.70	Old wood road bears E.and W.
2.20	Bottom of canyon 50 ft.below sec.cor.; spring branch 6 lks.wide, 3 ins.deep, runs N.80° E.
9.20	Point of spur 55 ft.above canyon,projects S.60° E.
13.80	Draw, 70 ft.below point of spur;spring branch 5 lks.wid 2 ins.deep, runs S.60° E.
38.40	Point of spur, 200 ft.above draw, projects W.
40.00	Set an iron post, 3 ft.long, 1 in.in dia., 24 ins.in th ground,for ¼ sec.cor.,with brass cap marked ¼ S 26 | S 25 1914 raise a mound of stone 2 ft.base,1½ ft.high W.of cor.

Subdivision of T.8 N. R .4 E .

Chains.	
48.00	Head of small draw 50 ft. below spur drains S.60°W.
65.50	Wood road bears E.& W.
66.30	Top of spur 300 ft. above head of draw projects N.80°E.
	Thence across top of spur to
73.80	Begin to descend bears E. and W.
76.00	Enter scattering aspen timber bears N.65°E.& S.65°W.
80.00	Set an iron post, 3 ft. long,2 ins.in dia. 24 ins. in the ground for cor.of secs. 23,24.25 & 26, with brass cap marked ,

T 8 N R 4 E
S 23	S 24
S 26	S 25
1914

from which

An aspen tree 10 ins. diam. bears N.78°E. 1.29 chs. dist. marked T.8 N.R.4 E. S .24 B T.

An aspen tree 8 ins. diam. bears S.55°E.1.35 chs. dist. marked T.8 N R 4 E S 25 B T .

A pine tree 4 ins. diam. bears S.89°30'W.3.57 chs,dist. marked T 8 N R 4 E S 26 B T .

A pine tree 7 ins. diam. bears N.61°30'W.1.94 chs.dist. marked T 8 N R 4 E S 23 B T .

Land rolling mts. ridges with good brown sandy loam, underlayed with clay and limestone ,slightly washed on slopes ,valleys with good ,brown clay loam, with some stones and gravel ,

Timber scattering aspen,

Mountainous land 80.00 chs.

	East on a random line bet.secs.24 & 25.
40.00	Set temp.¼sec.cor.
80.08	Intersect E bdy. of Tp.9 1ks.S.of cor. of secs. 24 &25 here-to-fore described .

Thence 1 run

S.89°56'W.on a true line bet.secs.24 & 25.

Ascend over mountainous land through scattering aspen and pine timber.

Subdivision of T.8 N.R.4 E.

Chains.	
7 00	Leave timber bears .N.60°W.and S.60°E.
12 00	Top of spur 150 ft.above sec. cor. projects S.45°E.
18 40	Enter scrubby aspen timber bears N.45°W.and S.45°E.
20 00	Head of draw 25 ft. below spur drains S.45°E.
25 00	Leave aspen timber bears N. and S.
29 00	Top of spur 110 ft.above draw projects S.30°E.
37 00	Head of draw 100 ft. below spur drains S10°E.also enter aspen timber bears N. and S.
40 04	Set an iron post, 3 ft . long. 1 in.in dia.24 ins. in the ground, for ¼ sec. cor. with brass cap marked

S ¼ 24

S 25
1914

from which

An aspen tree 6 ins. diam. bears N.2°30'E.1.09 chs. di marked ¼ S 24 B T .

An aspen tree 10 ins. diam. bears S.14°45'W.1.32 chs. dist.marked ¼ S. 25 B T .

August ,10.1914.At this cor.,1 set off 15°40'N.on the decl.arc;and at 12 m. apparent time , observe the sun o the meridian the resulting lat. is 41°24'

53 00	Wood road bears N.50°E. and S. 50°W.
63 25	Top of spur 200 ft. above draw projects N.60°E.
	Thence descend gently along N. slope .
74 80	Head of Draw drains N.
79 00	Leave timber bears N. and S.
80 08	The cor.of secs. 23,24,25 & 26.

Land mountainous and hilly, ridges with good brown sandy loam ,underlayed with clay and gravel ,slightly washed on slopes ,valleys and draws with good brown, sandy loam.

Timber aspen and pine ,

Mountainous or timbered land 80 08 chs.

N.0°05' E. bet. secs. 23 & 24.

Descend gently over mountainous land .

5 00	Enter aspen timber with scattering pine bears S.45° W.

Chains.	
	and S.45°E.
23.00	Draw 200 ft. below sec.cor. drains N.35°W.
23.50	Leave timber bears N.80°W. and S.80°E.
31.50	Enter aspen timber bears E. and W.
35.00	Spur 100 ft. above draw projects N.10°W.10 chs. then N.20°E.
40.00	Set an iron post, 3 ft.long, 1 in. in dia .24 ins. in the ground for ¼ sec. cor. ,with brass cap marked

¼ S 23 | S 24
1914

from which

An aspen tree 14 ins. diam. bears S.70°E.11 lks. dist. marked ¼ S 24 B T

An aspen tree 6 ins. diam. bears S.70°W.11 lks. dist. marked ¼ S23 B T .

50.00	Head of draw 75 ft.below ¼ sec. cor. drains N.75°E.
55.00	Top of spur 50 ft. above draw projects N.40°E.
67.00	Top of abrupt descent bears N.80°E. and S. 80°W.
74.00	Enter scattering pine among aspen timber bears E & W.
76.00	Leave timber bears E.and W.
79.50	Foot of abrupt descent and enter bottom of small canyon bears N.80°E.and S.80°W.
80.00	Bottom of Canyon 350 ft. below spur drains N.80°E.

Set an iron post, 3 ft.long, 2 ins. in dia. 24 ins. in the ground, for cor.of secs. 13,14,23 and 24.with brass cap marked

T 8 N R 4 E
S 14	S 13
S 23	S 24
1914

from which

A pine tree 20 ins. diam. bears S.23°E.86 lks. dist. marked T 8 N R 4 E S 24 B.T .

An aspen tree 8 ins. diam. bears S.60°45'W.3 08 chs. dist. marked T 8 N R 4 E S 23 B T .

No other trees in limits .

~~and~~ Raise a stone mound 3 ft.base 2 ft.high W. of cor.

Land mountainous.

Soil, good brown sandy loam, medium texture , moist,

Chains.	
	on clay and gravel subsoil, slightly washed on slopes.
	Timber aspen and pine .
	Mountainous or timbered land 80 00 chs.
	August,10,1914,

	August,11 ,1914, From the cor. of secs.13,14,23 & 24.
	1 run.
	N.89°56'E. on a random line bet. secs. 13 & 24.
40.00	Set temp. ¼ sec. cor.
80.14	Intersect E.bdy. of Tp.12 lks. N. of cor. of secs. 13 &2
	here-to-fore described .
	Thence 1 run
	N.89°59'W. on a true line bet. secs. 13 & 24.
	Ascend gently along steep rocky N. slope through heavy
	pine timber .
20.00	Leave pine timber and begin to descend bears N.& S.
22.00	Small draw on N. slope drains N.
37.75	Enter thick small pine timber bears N. and S.
40.07	Set an iron post, 3 ft. long, 1 in. in dia. 24 ins. in th
	ground, for ¼ sec. cor. with brass cap marked
	S 13 ¼ --- S 24 1914
	from which
	A pine tree 6 ins. diam. bears N.25 °E.22 lks. dist.
	marked ¼ S 13 B T .
	A pine tree 5 ins. diam. bears S.54°W.6 lks. dist.
	marked ¼ S 24 B T .
44.00	Leave small pine timber bears N. and S.
45.00	Point of spur 100 ft. above draw projects N.
51.00	Mouth of draw 125 ft. below point of spur drains N.
58.00	Point of spur 100 ft . above draw projects N.75°E. thenc
	along steep N. slope
58.50	Enter scattering pine and aspen timber bears N. and S.
78.00	Leave scattering pine timber bears N.80°E.&S.80°W.
80.14	Bottom of canyon drains N.80°E.
	The cor. of secs. 13,14,23 and 24.

Chains.	
	E 20.chs. almost solid slide rock W.60 14 chs. steep, N.slope ,soil good brown sandy loam ,medium texture , moist, on clay and gravel subsoil, slightly washed, Timber ,aspen and pine .
	Mountainous or timbered land 80 14 chs.

	N.0°05'E.bet. secs.13 & 14 .
	Descend across bottom of canyon.
0.25	Spring branch 10 lks. wide 3 ins. deep.runs N.80°E.
1.00	Leave bottoms ascend abruptly,
16.00	Spur 350 ft. above canyon projects N.80°E.
17.00	Enter scrubby aspen timber bears E. and W.
18.50	Leave aspen enter small pine timber bears E. and /W.
26.00	Leave pine timber bears E. and W.
26.60	Draw 200 ft. below spur drains E.
35.00	Spur 175 ft. above draw projects E.
36.00	Enter aspen timber bears E. and W.
38.70	Small draw 100 ft. below spur drains E.
40.00	Set an iron post, 3 ft. long.1 in.in dia. 24 ins. in the ground. for ¼ sec.cor. with brass cap marked
	¼ S 14 | S 13 1914
	from which
	An aspen tree 6 ins. diam. bears N.5°30'E.43 lks. dist. marked ¼ S 13 B T .
	An aspen tree 6 ins. diam. bears N.49°W.56 lks. dist. marked ¼ S 14 B T .
	August ,11,1914 At this cor.1 set off 15°22'N. on the decl.arc; and at 12 m.apparent time ,observe the sun on the meridian the resulting lat.is 41°26'or within 1'of the proper lat.
41.00	Leave aspen timber bears E.& W.
62.00	Dim wood road bears E.and W.
62.50	Dairy Ridge 300 ft. above draw bears E.and W.
62.70	Enter scrubby aspen timber bears E.and W.
71.60	Head of draw 90.ft. below ridge drains N.45°E.

Chains.	
80.00	Set an iron post , 3 ft.long,2 ins. in dia. 24 ins. in the ground, for cor.of secs. 11,12,13 & 14. with brass cap marked

T 8 N R 4 E
S 11	S 12
S 14	S 13
1914

from which

An aspen thee 5 ins. diam. bears N.30°30'E.81 lks. dist marked T 8 N R 4 E S 12 B T .

An aspen tree 6 ins. diam. bears S.10°20'E.94 lks. dist marked T 8 N R 4 E S 13 B T .

An aspen tree 6 ins. diam. bears S.5°15'W.1 00 chs. dis marked T 8 N R 4 E S 14 B T .

An aspen tree 4 ins. diam. bearsc N.46°40'W. 51 lks. dist. marked T 8 N R 4 E S 11 B T .

Land ,rolling mountains.

Soil, good brown clay loam, medium,texture , moist, on clay and sandstone base . slightly washed on slopes.

Timber ,aspen and small pine ,

Mountainous or timbered land 80 00 chs.

August , 11 ,1914, At 3 h .p.m. apparent time, 1 set of 41°26'N.on the lat. arc; 15°20'N.on the decl. arc; and determine a meridian with the solar at the cor. of secs 11,12,13 & 14 , thence 1 run

S.89°59'E. on a random line bet. secs. 12 & 13.

40.00	Set temp. ¼ sec. cor.
79.96	Intersect E. bdy. of Tp., 23 lks.S.of cor. of secs. 12 & 13 . here-to-fore described ,

Thence 1 run

S 89°51'W. on a true line bet.secs. 12 and 13.

Descend over rolling mts. land,

1.50	Head of draw 40 ft. below sec.cor. drains N.45°W. also enter aspen timber bears N.45°W. and S. 45°E.
11.00	Point of low spur projects N.
17.00	Head of draw 75 ft. deep drains N.

Subdivision of T.8 N.R.4 E.

Chains.	
28.00	Top of spur 100 ft. above draw projects N. 35°E. also leave aspen timber bears N. and S.
38.40	Enter scattering aspen timber bears N. and S.
39.98	Set an iron post, 3 ft. long, 1 in. in dia. 24 ins. in the ground, for ¼ sec. cor. with brass cap marked,
	S 12 ¼ ------ S 13 1914
	from which
	An aspen tree 4 ins. diam. bears N.60°E.23 lks. dist. marked ¼ S 12 B T .
	An aspen tree 6 ins. diam. bears S.10°W.14 lks. dist. marked ¼ S 13 B T .
43.50	Head of small draw 50 ft. below ¼ sec. cor. drains N.
49.00	Top of spur 75 ft. above draw projects N.20°E. also leave aspen timber bears N.30°E. and S.30°W.
56.60	Enter scrubby aspen timber bears N.45°E and S.45°W.
63.30	Draw 100 ft. below spur drains N.45°E.
79.96	The cor. of secs. 11,12,13 & 14.
	Land ,rolling mountains.
	Soil , good brown clay loam, 20 to 30 ins. deep, medium texture, moist ,on clay subsoil,
	Timber ,aspen,.
	Mountainous or timbered land 79 96 chs.
	August ,11,1914.

	August ,12, 1914. At 9 h.a.m., apparent time, I set off 41°26'N. on the lat. arc; 15°07'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 11,12,13 & 14.
	Thence I run
	N.0°05'E. bet. secs. 11 & 12 .
	Ascend gently through scrubby aspen timber.
3.00	Leave scrubby aspen timber bears N.45°E. & S.45°W.
6.90	Top of spur 100 ft. above sec. cor. projects N.35°E.
18.90	Enter scrubby aspen timber bears N.10°E. & S.10°W.

Subdivision of T.8 N.R.4 E.

Chains.	
34.70	Leave aspen timber bears N.50°E. and S.50°W.
40.00	Set an iron post, 3 ft. long, 1 in. in dia. 24 ins. in th ground, for ¼ sec. cor. with brass cap marked ¼ S11 | S 12 1914
	An aspen tree 6 ins. diam. bears S.55°E. 2 34 chs. dist. marked ¼ S 12 B T .
	An aspen tree 4 ins. diam. bears S.7°W. 3 40 chs. dist. marked ¼ S 11 B T .
45.50	Draw 325 ft. below spur drains N.50°E.
45.60	Wood road bears N.50°E. and S.50°W.
60.50	Spur 200 ft. above draw projects N.70°E.
61.50	Enter aspen timber bears E. and W.
67.00	Leave aspen enter small pine timber bears E. and W.
73.50	Leave small pine timber enter scattering pine timber bears E. and W.
74.20	Draw 200 ft. below spur drains N.60°E.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia. 24 ins. in a stone mound, (Note : On account of the stone formatio it is impossible to dig at this point to set cor.) for cor. of secs. 1,2,11 & 12, with brass cap marked T 8 N R 4 E S 2 | S 1 ------|----- S 11 | S 12 1914
	from which
	A pine tree 24 ins. diam. bears N.34 °E 10 lks. dist. marked T 8 N R 4 E S 1 B T .
	A pine tree 20 ins. diam. bears S.63°30'E. 2 30 chs. dist. marked T 8 N R 4 E S 12 B T .
	A pine tree 6 ins. diam. bears S.73° W.1 45 chs. dist. marked T 8 N R 4 E S 11 B T .
	A pine tree 16 ins. diam. bears N.45°W.90 lks. dist. marked T 8 N R 4 E S 2 B T .
	Land broken and mountainous .
	ridges with light poor sandy loam, underlayed with sand & limestone, slopes with gravel and some good loa

Chains.	
	draws with good brown clay loam ,medium texture ,with some gravel.
	Timber aspen and pine.
	Mountainous or timbered land 80 00 chs.

	N.89°51' E.on a random line bet. secs. 1 & 12 .
40.00	Set temp. ¼ sec. cor.
79.92	Intersect E? bdy. of Tp.16 lks. N.of cor. of secs. 1 & 12 here-to-fore described .
	August,12, At this cor. 1 set off 15°05'N. on the decl. arc;and at 12 m.apparent time, observe the sun on the meridian the resulting lat.is 41°27'N.
	Thence I run
	S.89°58'W.on a true line bet. secs. 1 & 12 .
	Ascend along steep S. slope .
7.00	Top of ascent thence descend gently along gentle S.slope.
7.50	Enter scrubby aspen timber bears N.60°E.and S.60°W.
18.00	Leave same bears N.40°W. & S.40°E.
18.50	Begin abrupt descent bears N.70°W. and S.70°E.
28.80	Bottom of "Sugar Pine Canyon"200 ft. below top of abrupt descent creek 12 lks. wide 8 ins. deep runs S.80°E.
29.10	Wood road bears N.80°W.and S.80°E .
36.00	Enter small pine timber bears N.40°E.& S.40°W.
39.96	Set an iron post, 3 ft.long, 1 in.in dia. 24 ins. in the ground, for ¼ sec. cor. with brass cap marked

S 1
¼

S 12
1914

from which

A pine 4 ins. diam. bears North 4 lks. dist. marked

¼ S 1 B T .

A pine 4 ins. diam. bears S.70°W.15 lks. dist. marked

¼ S 12 B T .

47.00	Point of spur 80 ft. above ¼ sec. cor. projects N.40°E.
55.00	Leave small pine timber bears N.80°E.and S.80°W.
61.20	Draw 90 ft. below point of spur drains N.80°E.

Chains.	
	spring branch 6 lks. wide 4 ins. deep runs N.80°E.
74.00	Enter scattering pine timber bears N.80°E. and S.80°W.
79.92	The cor. of secs. 1,2,11 & 12 .
	Land broken and mountainous , ridges & draws with sandy loam , medium texture, moist, underlayed with limestone, Washed and stony on slopes ,
	Timber aspen and pine, .
	Mountainous or timbered land 79 92 chs.

	N.0°05'E.on a true line bet. secs. 1 & 2.
	Ascend over mountainous land through scattering pine timber.
3.00	Leave scattering pine enter aspen timber bears E.& W.
4.80	Top of spur 100 ft. above sec.cor. projects N.80°E.
10.40	Leave aspen enter scattering pine timber bears E.& W.
17.00	Leave timber bears N.80°W.& S.80°E.
18.20	Bottom of "Sugar Pine Canyon" 375 ft. below spur drains S.80°E.
20.00	Begin abrupt ascent bears N.80°E.and S.80°W.
39.00	Top of abrupt ascent begin gentle ascent .
40.00	Set an iron post, 3 ft.long, 1 in. in dia. 24 ins.in the ground, for , ¼ sec. cor. with brass cap marked ¼ S2 | S 1 1914,
	from which
	An aspen tree 4 ins. diam. bears N.8°18'E.3 75 chs. dist. marked ¼ S 1 B T .
	An aspen tree 4 ins. diam. bears N.2°W.4 33 chs. dist. marked ¼ /S 2 B T .
41.00	Top of spur 500 ft. above "Sugar Pine Canyon " projects S 30°E.
44.20	Enter scattering scrubby aspen timber , bears S.60°E.& N.60°W.
47.60	Leave same bears E.and W.
59.20	Head of draw 75 ft. below spur drains S.45°E.
76.03	The old cor. of secs. 35 & 36 on S.Line of 2nd.Standard.

Subdivision of T.8 N.R.4 E.

Chains.	
	N. bears west 92 lks. dist.
78.50	Enter aspen timber bears E. and W.
80.30	Leave same bears E.& W.
82.00	Spur 85 ft.above head of draw projects S.85°E.
83.00	Enter pine timber bears E .& W.also scattering aspen.
84.00	Leave same bears E.& W.
84.58	Intersect 2nd. standard parallel N.5 lks.N.89°26'E.of standard ¼ sec. cor. on S. bdy. of sec. 35, here-to-fore described. Set an iron post, 3 ft.long 3 ins. in dia. (No 2 inch posts available,) 24 ins. in the ground, for closing cor.of secs. 1 & 2 with brass cap marked .

T 9 N R 4 E
S 35 | S 36
C | C
S 2 | S 1
1914

from which

An aspen tree 12 ins. diam. bears S.25°50'E.1 29 chs. dist. marked T 8 N R 4 E S 1 B T .

An aspen tree 10 ins. diam. bears S34°50'W. 1 23 chs. dist. marked T 8 N .R 4 E S 2 B T .

N.45 58 chs. rolling mountainous land draining SE. soil ,good brown clay loam , fine texture, moist , on clay subsoil, S.39.chs. broken , ridges with light sandy soil, washed on slopes ,draws with good brown loam, with some gravel.

Timber ,aspen and pine .

Mountainous or timbered land 84 58 chs.

John W. Dougall
August, 12 ,1914. U.S. Surveyor.

August ,10,1914, From the cor. of secs. 26,27,34 &35.

1 run

South on a random line bet. secs. 34 & 35.

40.00	Set temp.¼ sec. cor.
80.12	Intersect S.bdy. of Tp. at the cor.of secs. 34 &35. here-to-fore described .

August,10,At this cor. 1 set off 15°40'N.on the decl.arc;

Chains.	
	and at 12 m.,apparent time , observe the sun on the meridian the resulting lat is 41°23'N. or within 1'of the proper lat.
	Thence I run
	North on a true line bet. secs. 34 and 35.
	Ascend gently over mountainous land draining SW.
5.00	Enter aspen timber bears E . & W.
26.00	Wood road bears N.10°W.and S.10°E.
26.50	Ridge (Divide betw.Rich & Weber Counties .) bears N.10 and S.10°E. 175 ft. above sec. cor.
29.00	Head of draw 75 ft. below ridge drains N.45°E.
37.25	Spur 100 ft. above head of draw projects N.60-°E.
40.12	Set an iron post, 3 ft .long,1 in. in dia. 24 ins.in the ground, for ¼ sec. cor. with brass cap marked ¼ S 34c | S 35 1914
	from which
	An aspen tree 8 ins. diam.bears N.72°E.38 lks. dist. marked ¼ S 35 B T .
	An aspen tree 6 ins. diam. bears S.86°W.25 lks. dist. marked ¼ S 34 B T .
47.40	Leave aspen timber bears E.and W.
52.50	Head of small draw drains E. and enter aspen timber an chokecherry underbrush bears E. and W.
68.25	Spur 75 ft. above draw projects S.80°E.
80.12	The cor. of secs . 26,27,34 and 35.
	This cor. is 100 ft. below spur .
	Land ,rolling mountains ,
	Soil ,good brown clay loam, 10 to 20 ins. deep, medium texture, moist, nn clay subsoil,
	Timber , aspen .underbrush chokecherry.
	Mountainous or timbered land 80 12 chs.
	August, 10, 1914,

	August,13,1914, At 8h 30m a.m. apparent time , I set off 41°23'N. on the lat. arc. 14°49'N. on the decl:arc.;

Chains.	
	and determine a meridian with the solar at the cor. of secs. 26,27,34 & 35.
	Thence I run
	N.0°04'E. bet. secs. 26 & 27.
	Descend gently through aspen timber and chokecherry underbrush .
2.80	Draw 40 ft. below sec. cor. drains S.80°E.road in bottom.
20.00	Leave timber and underbrush bears E.and W.
31.00	Top of spur 125 ft. above draw ,projects E.also enter aspen timber bears N.80°E.and S.80°W.
37.00	Head of small draw 65 ft. below spur drains E.
40.00	Set an iron post, 3 ft.long, 1 in.in dia. 24 ins.in the ground ,for ¼ sec.cor. with brass cap marked

¼ S 27 | S 26
1914

from which

An aspen tree 10 ins. diam. bears N.60°E.50 lks. dist, marked ¼ S 26 B T .

An aspen tree 20 ins. diam. bears S.49°W.29 lks. dist. marked ¼ S 27 B T .

47.50	Spur 100 ft. above ¼ sec. cor. projects E.
48.00	Enter pine among aspen timber bears E & W.
76.30	Head of small draw 125 ft. below spur drains S.85°E.
80.00	Set an iron post, 3 ft.long, 2 ins. in dia. 24 ins. in the ground, for cor. of secs. 22,23,26 & 27, with brass cap marked

T 8 N R 4 E
S 22	S 23
S 27	S 26
1914

from which

An aspen tree 9 ins. diam. bears N.41°E.31 lks. dist. marked T 8 N R 4 E S 23 B T .

An aspen tree 8 ins. diam. bears S.56°E.32 lks. dist. marked T 8 N R 4 E S 26 B T .

An aspen tree 10 ins. diam. bears S.30°W.42 lks. dist. marked T 8N R 4 E S 27 B T .

Chains. An aspen tree 7 ins. diam. bears N.78°W. 15 lks. dist.
marked T 8 N R 4 E S 22 B T .

Land , rolling mountains .

Soil, good brown clay loam 10 to 24 ins. deep, medium texture , moist, on clay subsoil,

Timber ,aspen and pine ,underbrush chokecherry.

Mountainous , or timbered land , 80 00 chs.

August 13, 1914, At this cor. 1 set off 14°46'N.on the decl.arc; and at 12 m.apparent time, observe the sun on the meridian the resulting lat.is 41°24'

East on a random line bet. secs. 23 and 26.

40·00 Set temp.¼ sec. cor.

80·13 Intersect N.& S. line 9 lks. N. of cor. of secs. 23,24, 25 & 26.

Thence 1 run, on true line N.89°56'W.bet. secs. 23 & 26.

Ascend along N. slope of spur.

7·50 Top of small spur 75 ft. above sec.cor. projects N.

21·80 Enter aspen timber bears N.80°E. and S80°W.

30·00 Draw 200 ft. below spur drains N.

31·25 Leave aspen enter pine timber bears N. and S.

40,06½ Set an iron post, 3 ft.long, 1 in.in dia. 24 ins. in the ground, for ¼ sec. cor. with brass cap marked

S 23
¼

S 26
1914

from which

A pine tree 6 ins.diam.bearsS.5°W.13 lks. dist.
marked ¼ S 26 B T .

A pine tree 8 ins. diam. bears N.60°W.52 lks. dist.
marked ¼ S 23 B T .

47·50 Spur 100 ft. above ¼ sec. cor. projects N.

48·00 Leave pine enter aspen timber bears N.10°E.and S.10°W.

64·80 Draw 90 ft. below spur drains N.10°E.

80·13 The cor. of secs. 22,23,26 & 27.

Chains.	
	This cor. is 175 ft . above draw.
	Land rolling mountains.
	Soil ,good brown sandy loam, 9 to 16 ins. deep, medium texture , moist, on clay subsoil.
	Timber, aspen and pine ,
	Mountainous or timbered land 80 13 chs.
	August, 13, 1914.

	August, 14, 1914, From the cor. of secs. 22,23,26 & 27, 1 run
	N.0°04'E. bet. secs. 22 and 23.
	Ascend through aspen timber
5.00	Point of spur 70 ft. above sec. cor. projects N.40°E.
7.50	Leave aspen enter pine timber bears E.and W.
16.20	Descend abruptly bears E & W.
21.00	Leave timber bears N.80°E.& S.80-°W.
22.70	Draw 275 ft. below spur spring branch 6 lks. wide 4 ins. deep runs N.80°E.
30.00	Limestone spur 75 ft. above draw projects S.50°E.
38.50	Small draw 65 ft. below spur drains S.45°E. also enter aspen timber bears N.60°W.and S.60°E.
40.00	Set an iron post, 3 ft.long, 1 in.in dia. 24 ins. in the ground, for ¼ sec. cor. with brass cap marked
	¼ S 22 | S 23 1914
	from which
	An aspen 5 ins. diam. bears . S.70°E.27 lks. dist. marked ¼ S 23 B T .
	An aspen IO ins. diam.bears N.72°W.76 lks. dist. marked ¼ S 22 B T .
66.90	Main spur " 250 ft. above ¼ sec .cor. bears E. & W.
74.60	Leave aspen enter pine timber bears E. and W.
80.00	Set an iron post, 3 ft.long. 2 in.in dia. 24 ins. in the ground, for cor. of secs .14,15,22 & 23 , with brass cap marked

Chains.	
	T 8 N R 4 E S 15 | S 14 ---|--- S 22 | S 23 1914
	from which
	A pine 5 ins. diam. bears N.24°E.14 lks. dist. marked T 8 N R 4 E S 14 B T .
	A pine 10 ins. diam. bears S.24°E.16 lks. dist. marked T 8 N R 4 E S 23 B T .
	A pine 9 ins. diam. bears S.55°W.48 lks. dist. marked T 8 N R 4 E S 22 B T
	A pine 5 ins. diam. bears N.56°40' W. 61 lks. dist. marked T 8 N R 4 E S 15 B T .
	Land , mountainous,
	Ridges with light brown sandy loam , medium texture, moist, underlayed with clay and limestone, slopes slightly washed, draws with good sandy loam , with some gravel.
	Timber aspen and pine,.
	Mountainous or timbered land , 80 00 chs.

	S.89°56'E. on a random line bet. secs. 14 & 23.
40.00	Set temp. ¼ sec. cor.
80.32	Intersect N.& S. line 3 lks. N. of cor. of secs. 13,14, 23 and 24.
	August,14, 1914, At this cor. I set off 14°28'N.on the decl.arc; and at 12 m.apparent time, observe the sun on the meridian the resulting lat. is 41°25'
	Thence I run
	N.89°55'W. on a true line bet. secs. 14 & 23.
	Ascend across bottom of canyon .
0.50	Spring branch 10 lks. wide 4 ins. deep. runs N.80°E.
1.00	Leave bottom of canyon ascend along S.slope .
21.30	Enter aspen timber bears N.10°E.& S.10°W.
34.00	Spur 325 ft.above canyon projects N.80°E.
39.00	Leave aspen timber bears N.& S.
40.16	Set an iron post, 3 ft.long, 1 in.in dia. 24 ins. in the

Chains. ground, for, ¼ sec. cor. with brass cap marked

S 14
¼

S 23
1914

from which

An aspen tree 8 ins. diam. bears N.40°E. 40 lks. dist. marked ¼ S 14 B T.

An aspen tree 8 ins. diam. bears S.60°E.50 lks. dist. marked ¼ S 23 B T .

45.00 Enter scattering pine timber bears N.20°E.& S.20°W.

60.00 Small draw 100 ft. below spur drains N.

71.00 Leave pine enter scattering aspen timber bears N.45°E and S.45°W.

74.00 Point of spur 85 ft. above draw projects N.35°E.

76.50 Leave aspen enter small pine timber bears N.60°E. and S.60° W.

80.32 The cor. of secs. 14, 15,22 and 23.

Land ,mountainous .

Soil ,good brown sandy loam, 6 to 24 ins. deep, fine texture , moist, underlayed with clay .

Timber aspen and pine .

Mountainous or timbered land 80 32 chs.

August , 14, 1914, At 3 h .p.m. ,apparent time, I set off 41°25'N. on the lat. arc; 14°26'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

N.0°04'E. bet. secs. 14 and 15.

Descend through small pine timber .

11.00 Draw 125 ft. below sec. cor. drains E.

14.20 Low spur 55 ft. above draw projects E.

18.70 Leave pine timber bears N.70°E.and S.70°W.

20.30 Draw 65 ft. below spur spring branch 2 lks. wide 1 in. deep runs. S.80°E. draw heads N.15°W.

40 00 Set an iron post, 3 ft.long, 1 in.in dia.24 ins. in the

Subdivision of T .8 N.R.4 E.

Chains.	
	ground ,for ¼ sec. cor. with brass cap marked
	¼S15 | S 14 1914
	from which
	An aspen tree 10 ins. diam. bears S.81°30'E.73 lks. di
	marked ¼ S 14 B T .
	An aspen tree 7 ins. diam. bears N.0°30'W.5 57 chs. dis
	marked ¼ S 15 B T .
	From this ¼ sec.cor. a small spring bears N.16°W.6 15 c
	distant.
45.60	Enter aspen timber bears N.80°W.and S.20°E.
60.00	Leave aspen timber bears E.and W.
69.25	"Dairy Ridge " 250 ft above ¼ sec. cor. bears E.& W.
71.00	Enter scattering aspen and pine timber bears E.& W.
80.00	Set an iron post ,3 ft.long. 2 ins.in dia. 24 ins. in
	the ground, for cor. of secs.10,11,14 & 15,with brass
	cap marked
	T 8 N R 4 E S 10 | S 11 ---------- S 15 | S 14 1914
	from which
	A pine 6 ins. diam. bears N.37°E. 19 lks. dist.
	marked T 8 N R 4 E S 11 B T
	A pine 6 ins. diam. bears S.34°30'E.1 26 chs. dist.
	marked T 8 N R 4 E S 14 B T .
	A pine 8 ins. diam. bears S.45°W. 80 lks. dist.
	marked T 8 N R 4 E S 15 B T .
	A pine 10 ins. diam.bears N.62°W.24 lks. dist. marked
	T 8N R 4 E S 10 B T .
	Land , mountainous ,
	Soil, good brown sandy loam, 7 to 20 ins. deep,medium
	texture , moist on clay and gravel subsoil.
	Timber aspen and pine .
	Mountainous or timbered land 80 00 chs.
	August, 14,1914.

Subdivision of T.8 N.R.4 E.

Chains.	
	August, 15,1914, From cor. of secs. 10,11,14 & 15,
	1 run .
	S.89°55'E.on a random line bet. secs. 11 & 14
40.00	Set temp.¼ sec.cor.
80.21	Intersect N.& S.line 28 lks. N.of cor.of secs. 11,12,
	13 and 14.
	Thence 1 run
	N.89°43'W.on a true line bet. secs. 11 & 14 .
	Ascend through scrubby aspen timber .
2.00	Leave scrubby aspen timber bears N.35°E. and S.35°W.
4.00	Top of spur 75 ft. above sec.cor,projects N.35°E.
10.00	Enter aspen timber bears N.and S.
27.80	Head of draw 60 ft.below spur drains N.
30.00	Leave aspen enter pine timber bears N40°E.& S.40°W.
31.00	Low spur projects N.
35.00	Head of draw drains N.40°E. also leave pine enter
	aspen timber bears N.and S.
40.10½	Set an iron post, 3 ft.long,1 in.in dia. 24 ins. in the.
	ground, for ¼ sec.cor,with brass cap marked
	S 11 ¼ --- S 14 1914
	from which
	An aspen tree 6 ins. diam. bears N.60°E.73 lks. dist.
	marked ¼ S 11 B T .
	An aspen tree 6 ins. diam. bears S .30°W.38 lks. dist.
	marked ¼ S 14 B T .
41.30	Leave aspen.timber bears N.20°E.and S.20°W.
46.35	Spur 200 ft. above draw projects N.40°E.
53.50	Enter aspen timber bears N and S.
59.70	Draw 100 ft. below spur drains N.
60.00	Enter small pine timber among aspen.bears N.and S.
69.00	Small spur 75 ft.above draw projects N.
76.00	Small draw 80 ft.below spur drains N.10°E.
80.21	The cor. of secs.10,11,14 &15.

Chains.	
	Land ,mountainous ,
	Soil, good brown sandy loam, 6 to 20 ins. deep, medium texture , moist, on clay and gravel subsoil.
	Timber aspen and pine,
	Mountainous or timbered land 80 21 chs.

	N.0°04'E. bet. secs. 10 & 11.
	Descend gently through aspen and pine timber.
3.30	Head of small draw 100 ft. below sec.cor. drains N.45
6.70	Leave pine enter scattering aspen timber bears N.80°E and S. 80°W.
14.00	Leave same bears E.and W.
16.50	Point of spur 150 ft. above draw projects N.50°E.
24.80	Draw 200 ft.below point of spur drins E.10 chs. then N.40°E.
30.00	Enter aspen timber bears E. & W .
31.50	Small spring 60 lks. west of line.
40.00	Set an iron post, 3 ft.long,1 in . in dia.24 ins. in t ground, for ¼ sec.cor. with brass cap marked
	¼ S 10 | S 11 1914
	from which
	An aspen tree 6 ins. diam. bears S.34 30'E.90 lks. dis marked ¼ S 11 B T .
	An aspen tree 6 ins. diam. bears S.20°W.57 lks. dist. marked ¼ S 10 B T .
	This ¼ sec. cor. is 250 ft. above draw.
	August ,15,1914, At this ¼ sec. cor. 1 set off 14°10'N. on the decl.arc;and , at 12 m.,apparent time, observe the sun on the meridian the resulting lat. is 41°26' within 1' of the proper lat.
46.50	Spur 75 ft. above ¼ sec. cor. projects N.80°E.
50.00	Leave aspen timber bears N.80°E.and S.80°W.
61.40	Head of draw 90 ft.below spur drains N.30°E.
75.00	Point of low spur 50 ft. above draw projects N.20°E.
70.50	Enter small pine timber and descend abruptly bears E.&

Subdivision of T.8 N.R.4 E.

Chains.

80.00 Set an iron post, 3 ft.long,2 ins. in dia. 24 ins. in the ground,for cor. of secs. 2,3,10 & 11 ,with brass cap marked

```
T 8 N  R 4 E
 S  3 | S 2
 -----|----
 S 10 | S 11
    1914
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from which

A pine 5 ins. diam. bears N.78°30'E.46 lks. dist. marked T 8 N R 4 E S 2 B T .

A pine 6 ins. diam. bears S.7°30'E.50 lks. dist. marked T 8 N R 4 E S 11 B T .

A pine 5 ins. diam. bears S.36°W.25 lks. dist. marked T 8 N R 4 E S 10 B T .

A pine 6 ins. diam. bears N.21°W.57 lks. dist. marked T 8 N R 4 E S 3 B T

This cor.is 175 ft. below spur.

Land ,mountainous,

Soil, good brown clay loam, 4 to 15 ins deep, fine texture , moist, underlayed with clay subsoil.

Timber aspen and pine .

Mountainous or timbered land, 80 00 chs.

August,15, 1914, At 2 h.p.m. ,apparent time , I set off 41°27'N.on the lat. arc; 14°08'Non the decl;arc;and determine a meridian with the solar at the cor. of secs. 2,3,10 & 11, thence I run

S.89°43'E. on a random line bet. secs. 2 & 11 .

40.00 Set temp.¼ sec.cor.

80.08 Intersect N.and S.line 33 lks. S.of cor. of secs. 1,2, 11 & 12.

Thence I run

N.89°57'W.on a true line bet. secs.2 & 11 .

Ascend through scattering pine timber.

11.40 Leave scattering pine and enter aspen timber bears N.40°E. and S.40°W.

Subdivision of T.8 N.R.4 E.

Chains.	
28.00	Top of spur 275 ft. above sec. cor .projects N.80°E.
35.00	Leave aspen enter pine timber bears N.60°E.& S.60°W.
40.04	Set an iron post, 3 ft.long, 1 in. in diam.24 ins. in the ground, for ¼ sec. cor. with brass cap marked
	S ¼ 2 / S 11 1914
	from which
	An aspen tree 7 ins . diam. bears S.48°W.15 lks. dist. marked ¼ S 11 B T..
	An aspen tree 6 ins. .diam. bears N.58°W.16 lks. dist. marked ¼ S 2 B T .
40.50	Enter scattering aspen among pine timber bears N.and .
41.50	Leave aspen enter thick small pine timber bears N.& S.
49.40	Leave small pine timber bears N.20°E.& S.20°W.
55.00	Draw 100 ft. below spur drains N.74°E.
65.00	Spur 175 ft. above draw projects N.60°E.
78.70	Draw 150 ft.below spur drains N.also enter small pine timber bears N.and S.
80.08	The cor.of secs.2,3,10 & 11.
	Land ,mountainous .
	Soil, good brown clay loam ,7 to 20 ins. deep, medium texture , moist, underlayed with clay and limestone.
	Timber, aspen and pine .
	Mountainous or timbered land 80 08 chs.
	August, 15, 1914.

	August, 18, 1914.From the cor. of secs. 2,3,10 & 11.
	1 run
	N.0°04'E.on a true line bet. secs. 2 &3.
	Descend through small pine timber.
2.00	Small spring branch 2 lks. wide runs.E. also leave sma pine timber bears N.80°E & S.10°W.
11.70	Bottom of "Sugar Pine Canyon"250 ft. below sec.cor. drains E.
18.00	Enter aspen timber bears E.and W.

Subdivision of T.8 N.R.4 E.

Chains.	
32.00	Thence gentle ascent and enter scattering pine among aspen timber bears E.& W.
35.00	Leave scattering pine enter heavy aspen timber bears E & W. and top of spur 325 ft. above canyon projects S E.
40.00	Set an iron post, 3 ft.long. 1 in.in dia. 24 ins. in the ground,for ¼ sec. cor. with brass cap marked ¼ S 3 | S 2 1914, from which An aspen tree 12 ins. diam. bears S.71°E. 7 lks. dist. marked ¼ S 2 B T . An aspen tree 9 ins. diam. bears N.72°W.33 lks. dist. marked ¼ S 3 B T .
61.20	Small draw 75 ft. below ¼ sec.cor. drains E.
63.40	Small spur projects E.
75.00	Leave aspen timber enter pine timber bears E.& W.
75.90	The old standard cor. of secs. 34 &35.on S.line of the 2nd.standard N. bears W.1 98 chs. dist.
76.00	Leave pine enter aspen timber bears N.45°W.&S.45°E.
76.90	Draw 125 ft. below spur drains S.30°E.
78.00	Leave timber bears NW.and SE.
84.20	Intersect 2 nd. standard parallel N.10 lks. E.of standard ¼ sec.cor. on S.bdy. of sec.34,here-to-fore described. Set an iron post, 3 ft.long,2 ins. in dia. 24 ins. in a stone mound(The point for closing cor.falls on a small limestone spur on which it is impossible to dig.) for closing cor. of secs. 2 & 3. with brass cap marked , T 9 N R 4 E. S 34 | S 35 C C S 3 | S 2 1914 from which A lone pine 20 ins. diam. bears S.39°E.88 lks. dist. marked T 8 N R 4 E S 2 B T . A mahogany 6 ins. diam. bears S.68°W.16 lks. dist. marked T 8 N R 4 E S 3 B T . This closing cor. is 180 ft. above draw.

Chains.	
	Land , mountainoue,
	Soil ,good brown sandy loam , 4 to 15 ins. deep, medium texture ,moist, underlayed with clay and limestone.
	Timber , aspen and pine .
	Mountainous , or timbered land 84 20 chs. John W. Dougall
	August.18, 1914, U.S. Surv

	August, 11,1914, At 9 ,a.m. apparent time ,1 set off 4
	23'N. on the lat. arc;15°25'N. on the decl.arc; and
	determine a meridian with the solar at the cor. of sec
	27,28,33 &34. here-to-fore described .
	Thence 1 run
	South on a random line bet. secs. 33 & 34.
40.00	Set temp. ¼ sec. cor.
80.30	Intersect S. bdy. of Tp.22 lks. W.of cor. of secs.33 &
	here-to-fore described
	Thence 1 run
	N.0°09'W. bet. secs. 33 and 34.
	Descend gently over mountainous land through aspen ti
3.00	Draw 50 ft. below sec. cor. drains S.80°W.
27.80	Top of spur 225 ft. above sec. cor. projects S.80°W.
40.30	Set an iron post, 3 ft.long, 1 in. in dia. 24 ins. in the ground , for, ¼ sec. cor. with brass cap marked
	¼ S 33 | S 34 1914.
	from which
	An aspen 7 ins.diam. bears N.72°E. 18 lks. dist. marke ¼ S 34 B T .
	An aspen 12 ins. diam. bears S.62°W. 98 lks. dist. marked ¼ S 33 B T .
48.00	Draw 400 ft. below spur spring branch 5 lks. wide 3 i deep, runs S.80°W.
59.00	Small spur 200 ft. above draw projects E.
62.20	Draw 100 ft. below spur drains S80°E.
75.70	Spur 225 ft.above draw projects S.60°W.
80.30	The cor. of secs. 27,28,33 & 34.

Subdivision of T.8 N.R.4 E.

Chains.	
	Land ,mountainous.
	Soil, light sandy loam,4 to 8 ins. deep, medium texture moist,underlayed with clay and limestone .
	Timber aspen.
	Mountainous or timbered land 80 30 chs.
	August,11,1914.

	August, 14, 1914, At 8 a.m. apparent time, I set off 41° 23'N. on the lat. arc; 14°32'N.on the decl. arc; and ~~det~~ determine a meridian with the solar at the cor,of secs. 27,28,33 and 34.
	Thence I run
	N.0°04'E. bet. secs. 27 and 28.
	Descend through aspen timber .
7.00	Head of small draw 60 ft. below sec.cor.drains S.80°W.
7.50	Enter dense choke cherry underbrush bears E.and W.
10.00	Top of low spur 65 ft. above draw projects W.
20.20	Leave aspen enter pine timber bears E.& W.
26.30	Small spring branch 3 lks. wide 1 in.deep in draw 160 ft. below spur runs S.45°W.
33.20	Leave pine enter aspen timber bears E.and W.
35.60	Top of spur 100 ft. above draw projects S.45°W.
37.90	Head of small draw 50 ft. below spur drains S.50°W. also leave underbrush bears N.60°W.and S.60°E.
40.00	Set an iron post, 3 ft.long ,1 in.in dia. 24 ins. in the ground, for ¼ sec. cor. with brass cap marked ¼ S 28 | S 27 1914 from which An aspen 14 ins. diam. bears N.89°E.32 lks. dist. marked ¼ S 27 B T . An aspen 16 ins. diam. bears S.61°W. 16 lks. dist. marked ¼ S 28 B T .
66.40	Wood road bears N.80°W. and S.80°E.
70.00	Top of ridge (Divide bet. Rich and Weber counties) bears N.80°W.and S.80°E. 300 ft. above ¼ sec. cor.

Chains.	
79.40	Small spring branch 2 lks. wide 1 in.deep. runs N.40°E.
80.00	Set an iron post, 3 ft.long, 2 ins. in dia. 24 ins in t ground, for cor. of secs. 21,22,27 & 28.with brass cap marked .

T 8 N	R 4 E
S 21	S 22
S 28	S 27

1914

from which

An aspen 10 ins. diam. bears N.38°45'E.14 lks. dist . marked T 8 N R 4 E S 22 B T

An aspen 12 ins. diam. bears S.75°E.48 lks. dist. marked T 8 N. R 4 E S 27 B T .

An aspen 10 ins. diam. bears S.47°45'W.1 16 chs. dist marked T 8 N R 4 E S 28 B T .

An aspen 8 ins. diam. bears N.52°W. 40 lks. dist. marked T 8 N R 4 E S 21 B T .

Land , mountainous .

Soil, light sandy loam with some gravel 4 to 9 ins. de medium texture , moist, underlayed with clay and grave

Timber, aspen and pine .

Mountainous or timbered land 80 00 chs.

August, 14, 1914, At this cor. I set off 14°28'N. on t decl .arc; and at 12,m,apparent time, observe the sun on the meridian ,the resulting lat. is 41°24'

	East on a random line bet. secs. 22 & 27.
40.00	Set temp.$\frac{1}{4}$ sec.cor..
79.90	Intersect N.& S. line 12 lks. N. of cor. of secs. 22,23,26 & 27.
	Thence I run N.89°55'W.on a true line bet. secs. 22 & 27.
	Ascend gently through aspen timber .
5.00	Top of spur 75 ft. above sec. cor. projects N.40°E.
16.20	Enter scattering pine timber among aspen bears N.& S.
24.75	Draw 100 ft. below spur drains N.35°E.
39.95	Set an iron post, 3 ft.long,1 in.in dia. 24 ins. in t

Subdivision of T.8 N.R.4 E.

Chains.

ground, for ¼ sec. cor. with brass cap marked

S 22
¼

S 27
1914

from which

An aspen 18 ins.diam. bears S.10°W. 36 lks. dist. marked ¼ S.27 B T .

An aspen 12 ins. diam. bears N.31°W. 47 lks. dist. marked ¼ S 22 B T .

45.00 Top of spur 60 ft. above ¼ sec .cor.projects N.63°E.

63.00 Draw 110 ft.below spur drains N.leave scattering pines .

70.00 Top of spur 60 ft.above draw projects N.

79.60 Head of small draw 10 ft. below spur ,spring branch 2 lks. wide 1 in deep runs N.20°E.

79.90 The cor.of secs. 2122,27 & 28.

Land , rolling mountains .

Soil, good brown sandy loam, 3 to 15 ins. deep. fine texture , moist, underlayed with clay and gravel.

Timber, aspen and pine .

Mountainous or timbered land 79 90 chs.

August, 14 ,1914.

August,15,1914. At 8 a.m.,apparent time ,1 set off 14°13' N. on the decl.arc; 41°24'N.on the lat. arc; and determine a meridian with the solar at the cor.of secs. 21,22,27 & 28.

Thence 1 run

N.0°04'E. bet. secs . 21 & 22.

Descend gently through aspen timber and chokecherry underbrush .

13.00 Enter heavy pine timber bears E.and W.

21.90 Leave pine timber bears E and W.

23.00 Draw 100 ft.below sec. cor. drains E.

31.00 Top of spur 75 ft. above draw projects E.and enter pine timber among aspen timber bears E.and W.

38.00 Leave timber bears E. & W.

Subdivision of T.8 N.R.4 E.

Chains.	
40.00	Set an iron post, 3 ft.long.1 in.in dia. 24 ins. in the ground, for ¼ sec. cor. with brass cap marked ¼ S 21 | S 22 1914 from which An aspen 5 ins. diam. bears N.88°E.96 lks. dist. marked ¼ S22 B T . An aspen 8 ins. diam. bears S.67°30'W.2 10 chs.dist. marked ¼ S 21 B T .
48.00	Draw 150 ft. below spur drains E.leave underbrush E.& W
49.00	Enter aspen and pine timber bears E.and W.
57.50	Top of spur 50 ft. above draw projects S.80°E.
71.80	Draw 100 ft. below spur drains S.80°E.
80.00	Set an iron post, 3 ft.long, 2 ins. in dia. 24 ins. in the ground for cor. of secs. 15,16,21 and 22. with brass cap marked T 8 N R 4 E. S 16 | S 15 S 21 | S 22 1914 from which An aspen 12 ins. diam. bears N.89°E. 62 lks. dist. marked T 8 N R 4 E S 15 B T. An aspem 7 ins. diam. bears S57°30'E.70 lks. dist. marked T 8 N R 4 E S 22 B T . An aspen 12 ins. diam. bears S.87°W.24 lks. dist. marked T 8 N R 4 E S 21 B T . An aspen 7 ins. diam. bears N.28°W. 54 lks. dist. marked T 8 N R 4 E S 16 B T . Land ,mountainous. Soil ,good sandy loam,4 to 10 ins. deep, medium textur moist, on clay subsoil, Timber , aspen and pine .undergrowth chokecherry. Mountainous or timbered land 80 00 chs.

S.89°55'E.on a random line bet. secs. 15 & 22.

40.00	Set temp.½ sec. cor.
79.74	Intersect N.& S. line 16 lks.S.of cor.of secs. 14,15,

Chains.	
	22 & 23.
	Thence 1 run
	S.89°58'W. on a true line bet. secs. 15 & 22
	Ascend gently through small pine timber.
5.00	Enter aspen among pine timber bears N. and S.
5.50	Top of small spur 50 ft. above sec. cor. projects N.
18.00	Small draw 45 ft. below spur drains N. 8 chs. thence N.80°E.
24.40	Low spur 40 ft. above draw projects N. also leave pine timber and enter thick choke cherry underbrush among aspen timber bears N. & S.
25.30	Draw 25 ft. below spur drains N.
39.50	Top of spur 30 ft. above draw projects S.40°E.
39.87	Set an iron post, 3 ft. long, 1 in. in dia. 24 ins. in the ground, for ¼ sec. cor. with brass cap marked

S 15
¼

S 22
1914

from which

An aspen 16 ins. diam. bears S.7°W. 58 lks. dist. marked ¼ S 22 B T .

An aspen 8 ins. diam. bears N.6°W. 63 lks. dist. marked ¼ S 15 B T .

48.20	Draw 100 ft. below spur drains S.20°E.
52.50	Top of spur 80 ft. above draw projects S.85°W. thence along top of spur to
77.50	Leave spur descend bears N.80°W. and S.80°E.
79.74	The cor. of secs. 15, 16, 21 & 22.

Land, rolling mountains.

Soil, good brown sandy loam , 7 to 18 ins. deep, medium texture, moist, underlayed with clay and sandstone .

Timber aspen and pine ,undergrowth chokecherry.

Mountainous or timbered land 79 74 chs.

Note; Was impracticable to be on the meridian at 12.m. therefore lat. observation was not taken. Aug.15,1914.

Chains.	
	August,15,1914, At 3 .p.m. ,apparent time ,I set off 41 25'N. on the lat. arc; 14°07'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 15,16,21 & 22, thence I run.
	N.0°04'E. bet. secs. 15 and 16,
	Ascend gently through aspen timber and chokecherry underbrush.
8.00	Top of spur 40 ft. above sec. cor. projects S 45°W.
9,20	Head of small draw 30 ft. below spur drains S.45°W.
40,00	Set an iron post ,3 ft.long, 1 in. in dia. 24 ins. in the ground. for ¼ sec. cor. with brass cap marked
	¼ S 16 | S 15 1914
	from which
	An aspen 10 ins. diam. bears S.82°30'E.27 lks. dist. marked ¼ S 15 B T .
	An aspen 8 ins. diam. bears S.44°40'W. 46 lks. dist. marked ¼ S 16 B T .
41,50	Top of spur 125 ft. above draw projects E. also leave underbrush and aspen timber and enter pine timber bear E. and W.
74.25	Draw 65 ft. below spur drains N.80°E. and enter aspen among pine timber bears E. and W.
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 & 16, with brass cap marked
	T 8 N R 4 E S 9 | S 10 ---------- S 16 | S 15 1914
	from which
	An aspen 12 ins. diam. bears N.38°E.72 lks. dist. marked T 8 N R 4 E S 10 B T .
	An aspen 8 ins. diam bears S.15 E. 31 lks. dist. marked T 8 N R 4 E S 15 B T .
	An aspen 6 ins. diam. bears S.58°W.23 lks. dist. marked T 8 N R 4 E S 16 B T .

Subdivision of T.8 N.R.4 E.

Chains.	
	An aspen 8 ins. diam. bears N.48°W.57 lks. dist.marked T 8 N R 4 E S 9 B T .
	Land ,mountainous .
	Soil, good brown sandy loam,4 to 17 ins. deep, medium texture ,moist, underlayed with clay,
	Timber, aspen and pine ,undergrowth chokecherry.
	Mountainous or timbered land, 80 00 chs. Thos. C. Rathbone A. S. Trawritman
	August, 15, 1914.
	--- ---
	August,17, 1914, On account on clouds solar observations are impossible.
	From the cor. of secs. 9,10,15 & 16.
	1 run
	N.89°58'E.on a random line bet. secs. 10 & 15.
40.00	Set temp.¼ sec. cor.
79.96	Intersect N.and S. line 21 lks. N.on cor. of secs. 10, 11,14 & 15 .
	Thence 1 run
	N.89°53'W.,on a true line bet. secs. 10 & 15.
	Ascend through scattering pine and aspen timber.
3.00	Head of small draw 20 ft. above sec. cor. drains N.45°E.
7.00	Leave scattering pine and aspen timber enter heavy aspen timber and chokecherry underbrush bears N.40°E.and S.40°W.
17.00	Top of spur 125 ft. above draw projects N.50°E .also enter pine timber among aspen bears N. and S.
27.60	Draw 60 ft.below spur drains N.
39.98	Set an iron post, 3 ft.long, 1 in.in dia. 24 ins. in the ground, for ¼ sec.cor. with brass cap marked

S 10
¼
0----
S 15
1914

from which

An aspen 6 ins. diam. bears N.27°35'E.1 20 chs. dist marked ¼ S 10 B T .

An aspen 7 ins. diam .bears S.45°30'E.73 lks. dist. marked ¼ S 15 B T .

Chains.

60.00 Spur 55 ft. above draw projects N.45°E.

70.25 Draw 75 ft. below spur drains N.80°E.

79.96 The cor. of secs. 9,10,15 & 16,.

Land , mountainous.

Soil, good, brown sandy loam, 7 to 17 ins. deep, fine texture , moist, on clay subsoil.

Timber, aspen and pine ,underbrush chokecherry.

Mountainous or timbered land 79 96 chs.

August, 17, 1914.

August, 18, 1914,At 8 ,a.m. ,apparent time , 1 set off 41°26'Non the lat. arc; 13°16'N. on the decl.arc; and determine a meridiam with the solar at the cor. of se 9,10,15 & 16.

Thence 1 run

N.0°04'E. bet. secs. 9 & 10 .

Ascend through aspen and pine timber and chokecherry underbrush.

15.40 Top of spur 90 ft. above sec.cor. projects N.80°E.

19.00 Leave aspen and underbrush and enter heavy pine timber bears E.and W.

21.40 Wood road bears E. and W.

38.50 Head of small draw 110 ft. below spur drains N.60°E.

39.00 Leave pine timber enter aspen timber bears E.and W.

40.00 Set an iron post, 3 ft.long,1 in.in dia. 24 ins. in th ground,for ¼ sec. cor. with brass cap marked

¼ S 9 | S 10
1914

from which

An aspen 18 ins. diam. bears S.69°E.17 lks. dist. marked ¼ S 10B T .

An aspen 10 ins. diam. bears N.86°W.55 lks. dist. marked ¼ S 9 B T .

44.00 Spur 50 ft. above draw projects E.

57.50 Draw 65 ft. below spur drains E.spring branch 1 lk. wi 1 in.deep runs. E.

65.50 Top of ascent 200 ft. above draw thence across E.slope

Subdivision of T.8 N.R.4 E.

Chains.	
80.00	Set an iron post, 3 ft.long,2 ins. in dia.24 ins. in the ground for cor of secs.3,4,9 & 10. with brass cap marked

T 8 N R 4 E
S 4	S 3
S 9	S 10
1914

from which

An aspen 10 ins. diam. bears N.57°E.85 lks. dist. marked T 8 N R 4 E S 3 B T .

An aspen 8 ins. diam. bears S.12°E.45 lks. dist. marked T 8 N R 4 E S 10 B T .

An aspen 6 ins. diam. bears S.40°W.43 lks. dist. marked T 8 N R 4 E S 9 B T .

An aspen 6 ins. diam. bears N.48°W.42 lks. dist. marked T 8 N R 4 E S 4 B T .

Land ,mountainous.

Soil , good brown clay loam , 4 to 19 ins. deep.medium texture , moist,on clay subsoil.

Timber , aspen and pine ,underbrush chokecherry.

Mountainous or timbered land 80 00 chs.

S.89°53'E. on a random line bet. secs. 3 & 10.

40.00 Set temp. ¼ sec. cor.

80.18 Intersect N.and S. line 35 lks. S. of cor. of secs. 2,3, 10 and 11.

August, 18,1914. At this cor.,I set off 13°13'N.on th e decl.arc; and at 12 m,apparent time, observe the sun on the meridian ; the resulting lat. is 41°27' or within 1' of the proper lat.

Thence I run

S.89°52'W., on a true line bet.secs. 3 & 10.

Ascend through small pine timber .

1.00 Leave small pine timber bears N. and S.

2.90 Spring branch 1 lk.wide 2 in.deep runs N.45°E.on side hill.

7.00 Small spring 70 lks. S. of line .

14.70 Point of spur 200 ft. above sec.cor. projects N.35°E.

30.70 Draw 125 ft. below spur drains N.50°E.

Chains.	
36.00	Spur 90 ft. above draw projects N.45°E.
36.50	Enter pine timber bears N.45°E.& S.45°W.
40.09	Set an iron post, 3 ft.long. 1 in.in dia.24 ins. in the ground, for ¼ sec. cor. with brass cap marked..

S 3
¼

S 10
1914

from which

A pine 16 ins. diam. bears S.15°E.45 lks. dist. marked ¼ S 10 B T .

A pine 14 ins. diam. bears N.67°W.32 lks. dist. marked ¼ S 3 B T .

45.00	Leave pine timber bears N.45°E.& S.45°W.
45.50	Draw 120 ft. below spur drains N.75°E. thence begin abrupt ascent .
57.00	Top of abrupt ascent 225 ft. above draw thence gentle ascent bears N.80°E.and S.80°W.
65.50	Enter thick aspen timber bears N and S.
80.18	The cor. of secs. 3,4,9 & 10.

Land ,mountainous,.

Soil,good brown sandy loam, 3 to 17 ins. deep, medium texture , moist, on clay subsoil.

Timber, aspen and pine.

Mountainous or timbered land, 80 18 chs.

August , 18,1914,

August, 21,1914, At 9 ,a.m. apparent time, I set off 41°27'N. on the lat. arc;12°16'N.on the decl.arc; and determine a meridian with the solar at the cor. of secs 3,4,9 & IO.

Thence I run

N.0°04'E. on a true line bet. secs. 3 & 4.

Descend gently through aspen timber.

1.50	Leave aspen enter pine timber bears E.and W.
17.80	Draw 300 ft. below sec. cor.drains E. also leave pine
65.50	

Chains.	
	timber bears E. and W.
20.00	Enter aspen timber bears E & W.
31.50	Spur 375 ft. above draw projects S.75°E.
40.00	Set an iron post, 3 ft. long. 1 in. in dia. 24 ins. in the ground, for ¼ sec. cor. with brass cap marked
	¼ S 4 | S 3 1914
	from which
	An aspen tree 10 ins. diam. bears S.29°E. 57 lks. dist. marked ¼ S 3 B T .
	An aspen 11 ins. diam. bears S.6°W 50 lks. dist. marked ¼ S 4 B T .
44.00	Head of draw 45 ft. below spur drains S.75°E.
48.00	Spur 60 ft. above draw projects E.
52.30	Draw 90 ft. below spur drains E.
59.00	Point of spur 50 ft. above draw projects S.10°E.
69.30	Draw 30 ft. below spur drains S.15°E. and enter pine among the aspen timber bears N.55°E. and S.55°W.
75.69	The old standard cor. of secs. 33 & 34 on S. line of 2nd. standard parallel N. beard west 3 13 chs. dist.
81.00	Wood road bears E. and W.
81.25	Top of ridge 100 ft. above above draw bears S.85°E. & N.85 °W. divide bet. Rich and Cache Counties .
83.70	Intersects 2nd. Standard Parallel N.46 lks. N.89°51'E. of standard ¼ sec. cor. on S. bdy. of sec. 33, here-to-fore described.
	Set an iron post, 3 ft. long, 3 ins. in dia. (No 2 inch posts available) 24 ins. in the ground, for closing cor. of sess. 3 and 4 . with brass cap marked
	T 9 N R 4 E S 33 | S 34 C | C S 4 | S 3 1914
	from which
	A pine 8 ins. diam. bears S.73°30'E. 2 00 chs. dist. marked T 8 N R 4 E S 3 B T

Subdivision of T.8 N.R.4 E.

Chains.	
	A pine 24 ins. diam. bears S.25°W.3 25 chs. dist. marked T 8 N R 4 E S 4 B T .
	Land , mountainous,.
	Ridges with light poor sandy loam with some stones and gravel , slightly washed on slopes ,draws with sandy loam underlayed with clay.
	Timber aspen and pine .
	Mountainous or timbered land 83 70 chs.
	August,21,1914, At this cor. ,I set off 12°14'N.on the decl.arc;and at 12 m.apparent time ,observe the sun on the meridian;the resulting lat. is 41°28'. John W. Dorr
	August,21,1914. U.S. Sur

	August, 12 ,1914, At 8 ,a.m. apparent time, I set off 41°23' on the lat. arc;15°08'N. on the decl.arc;and determine a meridian with the solar at the cor. of sec 28,29,32 and 33. here-to-fore described.
	Thence I run
	S.0°09'E.on a random line bet. secs. 32 & 33.
40.00	Set temp.¼ sec.cor.
80.10	Intersect S.bdy. of Tp.12 lks. E.of cor. of secs. 32 here-to-fore described.
	Thence I run.
	N.0°04'W. on a true line bet. secs. 32 and 33.
	Descend overstony mountainous land through pine timber
2.20	Bottom of Canyon 50 ft.below sec. cor. creek IO lks. wide 6 ins. deep runs S.IO°W. thence ascend and leave pine timber bears N.20°E.& S.20°W.
5.00	Limestone ledge 30ft.high bears N.20°E.& S.20°W.
15.00	Begin to descend gently along steep E.stony slope .
20.00	Enter scattering pine timber bears N.20°W.& S.20°E. an ascend along steep E. slope .
40.10	Set an iron post, 3 ft.long.1 in.in dia. 24 in the ground, for ¼ sec .cor. with brass cap marked
	¼ S 32 | S 33
65.50	1914

Chains	
	from which
	A pine 24 ins. diam. bears N.42°E. 30 lks. dist. marked ¼ S 33 B T.
	A pine 4 ins. diam. bears N.82°W.33 lks. dist. marked ¼ S 32 B T.
60.30	Bottom of canyon 225 ft.below ¼ sec. cor. drains S10°E.
	Thence ascend abruptly to
75.00	Point of spur 325 ft. above canyon projects S. also
	leave pine timber enter aspen bears N.45°E.and S.45°W.
80.10	The cor. of secs. 28,29,32 & 33,
	Land, broken and mountainous.
	Soil on ridges ,good sandy loam. slopes and canyons washed and stony.
	Timber,aspen and pine.
	Mountainous or timbered land 80 10 chs.
	August, 12 ,1914,

August, 17,1914. The sky is overcast and solar observations. are impossible.

From the cor. of secs. 28,29,32 & 33.

1 run

N.0°03'E. bet. secs. 28 & 29.

	Ascend along top of spur through aspen timber.
20.50	leave top of spur 200 ft. above sec.cor. projects from N.15°E.
40.00	Set an iron post, 3 ft.long, 1 in.in dia. 24 ins. in the ground for ¼ sec. cor. with brass cap marked

¼ S 29 | S 28
1914

from which

An aspen 14 ins. diam. bears N.77°E.25 lks. dist. marked ¼ S 28 B T.

An aspen 10 ins. diam. bears N.44°W. 16 lks. dist. marked ¼ S 29 B T.

This ¼ sec. cor. is 60 ft. below spur.

65.50	Leave aspen enter pine timber bears N.30°E.& S.30°W.

Chains.

72,00 Leave pine timber enter aspen timber beans N.70°W.& S.70°E.

72.60 Draw 350 ft. below spur drains S.80°W. 10 chs. then S.

80,00 Set an iron post, 3 ft.long. 2ins. in dia. 24 ins. in the ground, for .cor. of secs.20,21,28 & 29, with bras: cap marked

T 8 N R 4 E
S 20 | S 21
S 29 | S 28
1914

from which

An aspen 9 ins. diam. bears N.81°E. 64 lks. dist. marked T 8 N R 4 E S 21 B T .

An aspen 8 ins. diam. bears S.83°E. 42 lks. dist. marked T 8 N R 4 E S 28 B T .

An aspen 9 ins. diam. bears S.30°W.64 lks. dist. marked T 8 N R 4 E S 29 B T .

An aspen 8 ins. diam. bears N.14°40'W.2 50 chs. dist. marked T 8 N R 4 E S 20 B T .

Land ,mountainous .

Soil, on ridges good brown sandy loam, fine texture, slightly washed on slopes , draws stony.

Timber ,aspen and pine.

Mountainous or timbered land 80 00 chs.

August, 17, 1914.

August,18,1914, At 8 a.m. ,apparent time,I set off 41° 24' N. on the lat. arc. 13°16'N. on the decl. arc; an determine a meridian with the solar at the cor. of se 20,21,28 & 29.

Thence I run .

East on a random line bet. secs. 21 & 28.

40,00 Set temp. ¼ sec.cor.

79.85 Intersct N.and S. line 5 lks. N. of cor. of secs. 21, 22 ,27 & 28.

Thence I run

Subdivision of T.8 N.R.4 W.

Chains.	
	N.89°58'W. on a true line bet. secs.21 & 28.
	Ascend through aspen timber.
15.00	Leave aspen enter pine timber and chokecherry and elder berry undergrowth bears N.60°W. and S.60°E.
28.00	Ridge 150 ft.above sec.cor.bears N.20°W.and S.20°E. (Divide bet. Rich and Weber Counties)
32.00	Leave ridge descend along SW. .slope .
37.20	Wood road bears N.10°W.and S.10°E.leave timber bears N.& S.
39.92½	Set an iron post, 3 ft.long. 1 in. in dia. 24 ins. in the ground,for ¼ sec. cor .with brass cap marked

S ¼ 21
S 28
1914

from which

An aspen 6 ins. diam.bears N.4°30'E.1.83 chs. dist. marked ¼ S 21 B T .

An aspen 12 ins. diam. bears S.39°45'W. 2.79 chs. dist. marked ¼ S 28 B T .

42.00	Leave underbrush and enter aspen timber bears N.25°E.& S.25°W.
58.70	Draw 100 ft. below ¼ sec. cor. drains S.10°W.
62.40	Spur 65 ft. above draw projects S.35°W.
73.10	Draw 90 ft.below spur drains S. [illegible]
79.85	Top of spur 75 ft. above draw projects S.

The cor. of secs.20,21,28 & 29.

Land , Mountainous.

Soil, good brown sandy loam,4 to 16 ins. deep, medium texture , moist, on clay and gravel subsoil.

Timber, aspen and pine.underbrush chokecherry & elderberry.

Mountainous or timbered land 79.85 chs.

August,18,1914, At this cor. I set off 13°13'N. on the decl.arc; and at 12 m,apparent time, observe the sun on the meridian ,the resulting lat. is 41°24'

N.0°-03'E. bet. secs. 20 & 21.

Ascend along top of spur through aspen timber.

Subdivision of T.8 N.R.4 E.

Chains.	
10.00	Leave top of spur thence along W.slope of same.
30.00	Head of small draw 60 ft. below spur drains S.50°W.
40.00	Top of spur 100 ft.above draw projects W.5.00 chs.
	Set an iron post, 3 ft. long.1 in.in dia. 24 ins. in th ground for ¼ sec. cor. with brass cap marked
	¼ S 20 | S 21
	1914
	From which
	An aspen 10 ins. diam.bears S.84°E.29 lks. dist. marked ¼ S 21 B T .
	An aspen 8 ins. diam. bears N.70°30'W.19 lks .dist. marked ¼ S 2o B T .
46.70	Enter pine among aspen timber bears E.& W.
47.75	Leave timber bears E. and W.
49.60	Draw 100 ft. below spur drains W.5.chs. then SW.
	Thence abrupt ascent to
63.00	Begin gentle ascent and enter aspen timber bears N.45°E and S.45°W.
64.85	Wood road bears N.80°W. and S.80°E.
65.00	Ridge 250 ft.above draw bears N.80°W. and S.80°E (Divid bet.Rich and Weber Counties.)
67.00	Enter scattering pine among aspen timber bears E.& 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 & 21,.with brass cap marked .
	T 8 N R 4 E
	S 17 | S 16
	S 20 | S 21
	1914
	from which
	An aspen 8 ins. diam. bears N.55°15'E. 1.20 chs. dist. marked T 8 N R 4 E S 16 B T .
	An aspen 10 ins. diam. bears S.24°45'E.70 lks. dist. marked T 8 N R 4 E S 21 B T .
	An aspen 10 ins. diam. bears S.46°30'W.43 lks. dist. marked T 8 N R 4 E S 2o B T .
	An aspen 9 ins. diam. bears N.72°30'W.1.16 chs. dist. marked T 8 N R 4 E S 17 B T .

Chains.

Land ,mountainous.

Soil, good brown clay loam,5 to 20 ins. deep, medium texture, moist, underlayed with clay and sandstone .

Timber , aspen and pine.

Mountainous , or timbered land 80 00 chs.

Thos. C. Rathbone U.S. Transitman

August, 18, 1914, .

August, 19, 1914. At 9 a.m. ,apparent time, I set off 41°25' N. on the lat. arc; 12°56'N.on the decl.arc; and determine a meridian with the solar at the cor. of secs.16,17,20 & 21. thence I run

S.89°58'E. on a random line bet. secs. 16 & 21.

40.00 Set temp.¼ sec. cor.

79.95 Intersect N.and S. line at the cor. of secs.15,16,21 & 22

Thence I run

N.89°58'W. on a true line bet. secs. 16,& 21.

Descend through aspen and pine timber .

5.00 Draw 70 ft.below sec.cor. drains S. and enter chokecherry underbrush bears N.and S.

12.80 Spur 60 ft. above draw projects S.10 chs. then SE.

21.40 Draw 60 ft.below spur drains S 45°E.

28.20 Spur 50 ft. above draw projects S.40°E.

39.97½ Set an iron post, 3 ft.long,1 in.in dia. 24 ins. in the ground, for.¼ sec.cor. with brass cap marked

S 16
¼

S 21
1914

from which

An aspen 6 ins. diam. bears N.55°45'W.22 lks. dist. marked ¼ S 16 B T .

An aspen 12 ins. diam. bears S.30°15'W.20 lks. dist. marked ¼ S 21 B T .

45.00 Draw 50 ft. below ¼ sec. cor. drains S.45°E.

50.00 Leave underbrush bears N and S.

79.95 The cor. of secs. 16,17,20 & 21.

Subdivision of T.8 N.R.4 E.

Chains.	
	Land , mountainous .
	Soil, good brown sandy loam, 5 to 18 ins. deep, fine texture , moist, on clay subsoil.
	Timber , aspen and pine ,undergrowth chokecherry.
	Mountainous or timbered land , 79 95 chs.
	August ,19,1914, At this cor. 1 set off 12°53'N.on the decl.arc; and at 12 m.apparent time ,observe the sun on the meridian , ; the resulting lat. is 41°25'

	N.0°03'E. bet. secs. 16 and 17,
	Ascend through aspen and pine timber .
6.00	Top of ridge 50 ft. above sec. cor. bears N.10°E.& S.10
7.80	Road Ogden to Woodruff bears N.10°E& S10°W.
22.80	Head of draw 75 ft. below ridge drains W.
34,60	Top of spur 100 ft. above draw projects W. also enter fire killed timber bears E.and W.
40.00	Set an iron post, 3 ft.long, 1 in.in dia. 24 ins. in th ground ,for ¼ sec. cor. with brass cap marked ¼ S 17 | S 16 1914
	from which
	A pine 5 ins. diam . bears S.31°30'E.52 lks. dist. marked ¼ S 16 B T .
	A pine 4 ins. diam. bears N.73°W.31 lks. dist. marked ¼ S 17 B T .
48.90	Draw 250 ft. below spur drains N.80°W.also leave fire killed timber bears N.80°W.and S.80°E.
50.50	Top of spur 60 ft. above draw projects W.
53.00	Draw 65 ft. below spur drains S.80°W. and enter aspen timber bears E .and W.
62,00	Spur 100 ft. above draw projects N.50°W.
80,00	Bottom of draw 200 ft. below spur small spring branch 3 lks. wide 2 ins. deep,runs N.45°W.
	The point for sec. cor. falls in spring branch therefor at a point 50 lks. E. of the true point for sec. cor.
	Set an iron post, 3 ft.long, 2 ins. in dia. 24 ins. in

Chains.

the ground, for witness cor. to secs. 8,9,16 & 17 with brass cap marked

T 8 N S 8	R 4 E S 9 W C
S 17	S 16

1914

from which

An aspen 8 ins. diam. bears N.42°E.33 lks. dist.
marked W C T 8 N R 4 E S 9 B T .

An aspen 8 ins. diam. bears S.76°30'E.71 lks. dist.
marked W.C T 8 N R 4 E S 16 B T .

An aspen 6 ins. diam. bears S.72°15'W.1 37 chs. dist.
marked W C T 8 N R 4 E S 17 B T .

An aspen 7 ins. diam. bears N.76°45'W.66 lks. dist.
marked W C T 8 N R 4 E S 8 B T .

Land mountainous .

Soil, good brown sandy loam, slightly washed on slopes underlayed with clay and sandstone.

Timber aspen and pine.

Mountainous or timbered land 80 00 chs.

August, 19, 1914.

August,20, 1914,
From true point for cor. of secs. 8,9,16 & 17.

1 run

S.89°58'E. ,on a random line bet. secs. 9 & 16 .

40.00 Set temp. ¼ sec. cor.

80.00 Intersect N. and S .line 7 lks.N. of cor. of secs. 9,10, 15 & 16.

Thence 1 run.

N.89°55'W. on a true line bet. secs. 9 & 16.

Descend through aspen and pine timber.

10.00 Draw 25 ft. below sec. cor. drains S.40°E.

29.00 Top of spur 100 ft. above draw projects S.40°E.

32.80 Draw 30 ft. below spur drains S.35°E.

40.00 Set an iron post,3 ft,.long,1 in.in dia.24 ins. in the ground ,for ¼ sec. cor. with brass cap marked

Chains.

S 9
¼
---O-
S 16
1914

from which

An aspen 8 ins. diam. bears N.13°W. 18 lks. dist. marked ¼ S 9 B T.

An aspen 10 ins. diam. bears S.40°W. 37 lks. dist. marked ¼ S 16 B T.

46.00 Top of ridge 30 ft. above sec. cor. bears N. and S., (divide bet. Rich and Cache Counties.)

49.10 Road Ogden to Woodruff bears N. and S.

79.50 Intersect W C to secs. 8,9,16 & 17.

80.00 The true point for cor. of secs. 8,9,16 & 17.

Land, mountainous.

Soil, good brown sandy loam, medium texture, moist, on clay subsoil.

Timber, aspen and pine.

Mountainous or timbered land 80.00 chs.

From true point for cor, of secs. 8,9,16 & 17.

I run

N.0°03'E. bet. secs. 8 & 9.

Ascend through aspen and pine timber.

7.00 Spur 40 ft. above sec. cor. projects W. 3 chs.

13.00 Draw 60 ft. below spur drains W.

15.00 Spur 75 ft. above draw projects W.

25.50 Draw 80 ft. below spur spring branch 2 lks. wide 1 in. deep runs S.80°W.

37.00 Top of spur 200 ft. above draw projects W. 10 chs.

38.00 Leave aspen and pine enter heavy pine timber bears E and W.

40.00 Set an iron post, 3 ft. long. 1 in. in dia. 24 ins. in the ground, for ¼ sec. cor. with brass cap marked.

¼ S 8 | S 9
1914

from which

Chains.

A pine tree 10 ins. diam. bears S.38°E.25 lks. dist. marked ¼ S 9 B T .

A pine tree 8 ins. diam. bears S.21°30'W.25 lks.dist. marked ¼ S 8 B T .

44.00 Draw 80 ft. below spur drains N.80°W.

61.90 Spur 90 ft. above draw projects W.

68.50 Draw 250 ft. below spur drains N.80°W.

80.00 Set an iron post, 3 ft.long,2 ins .dia.24 ins. in the ground, for cor, of secs. 4,5,8 & 9 with brass cap marked

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T 8 N   R 4 E
 S 5  |  S 4
------+------
 S 8  |  S 9
    1914
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from which

A pine 12 ins. diam. bears N.6°E. 1 82 chs. dist. marke d T 8 N R 4 E S 4 B T .

A pine 18 ins. diam. bears S.72°E.36 lks. dist . marked T 8 N R 4 E S 9 B T .

A pine 8 ins. diam. bears S.58°15'W.1 45 chs. dist. marked T 8 N R 4 E S 8 B T .

A pine 9 ins. diam. bears N.44°45'W.1 12 chs. dist. marked T 8 N R 4 E S 5 B T .

Land mountainous .

Soil good sandy loam, 4 to 10 ins. deep, medium texture moist, underlayed with clay and limestone.

Timber , aspen and pine.

Mountainous or timbered land 80 00 chs.

Note ; Was impracticable to be on the meridian at 12 m this date therefore LATITUDE observation omitted.

August, 20,1914 ,At 2 .p.m. apparent time, I set off 41°27'N.on the lat.arc; 12°32'N. on the decl. arc; and determine a meridian with the solar at the cor.of secs.4,5,8 & 9, thence I run

S.89°55'E., on a random line bet. secs. 4 & 9.

Subdivision of T.8 N.R. 4 W.,

Chains.

40.00 Set temp. ¼ sec. cor.

80.03 Intersect N.and S. line 9 lks. N.of cor. of cor. of sec

3,4,9 & 10.

Thence 1 run.

N.89°51'W.,on a true line bet.secs. 4 & 9 .

Ascend through aspen timber .

30.00 Leave aspen timber bears N.& S.

35.00 Enter scattering aspen timber bears N. and S.

40.01½ Set an iron post 3 ft.long, 1 in.dia.24 ins. in the ground,for

¼ sec. cor. with brass cap marked

S 4
¼

S 9
1914

from which

An aspen 8 ins. diam. bears N.69°30'E. 1 78 chs. dist.

marked S 4 B T .

An aspen 12 ins. diam. bears S.33°45'E. 1 25 chs. dist

marked S 9 B T .

49.40 Road Ogden to Woodruff bears N. and S.

50.00 Top of ridge 60 ft.above ¼ sec. cor. bears N.and S.,

divide bet.Rich and Cache Counties.

52.00 Leave scattering aspen timber enter pine bears N.and S

80.03 The cor. of secs. 4,5,8 & 9. This cor.is 275 ft.below

Land , mountainous .

Soil, good sandy loam, 4 to 9 ins.deep.medium texture,

moist, underlayed with clay and limestone.

Timber , aspen and pine.

Mountainous ,or timbered land , 80 03 chs.

August,20 ,1914.

August,21 ,1914. From cor. of secs. 4,5,8 & 9.

1 run

N.8°03'W. on a true line bet. secs. 4 and 5.

Ascend along steep W.slope through pine timber.

2.00 Spur 20 ft. above sec.cor. projects W.

17.50 Draw 75 ft.below spur drains W. also leave pine enter

Subdivision of T.8 N.R.4 E.

Chains.	
	aspen timber bears E. and W.
40,00	Set an iron post, 3 ft.long,1 in.in dia. 24 ins. in the ground, for ¼ sec cor. with brass cap marked
	¼ S 5 | S 4 1914.
	from which
	An aspen 5 ins. diam. bears S.61°E. 29 lks. dist. marked ¼ S 4 B T .
	An aspen 6 ins.diam. bears S.74°W. 77 lks. dist. marked ¼ S 5 B T .
50,80	Road Ogden to Woodruff bears N.20°E. and S.20°W.
61,00	Spur 50 ft .above ¼ sec. cor. projects W.
74.40	Leave thick enter scattering aspen timber bears N.20°E. and S. 20°W.
75.39	The old standard cor. of secs. 32 & 33 ,on S. line of 2nd.Standard Parallel N. bears West 2 90 chs. dist.
83.57	Intersect 2nd.Standard Parallel N. 67 lks. S.89°42'E. of the standard ¼ sec. cor. on S. bdy.of sec.32 , here-to-fore described .
	Set an iron post, 3 ft.long,2 ins. in dia. 24 ins. in the ground, for closing cor. of secs. 4 & 5 ,with brass cap marked
	T 9 N R 4 E S 32 | S33 ----o---- C | C S 5 | S 4 1914
	from which
	An aspen 6 ins. diam. bears S.24°50'E.1 72 chs. dist. marked T 8 N R 4 E S 4 B T .
	An aspen 7 ins. diam. bears S.76°W. 60 lks. dist. marked T 8 N R 4 E S 5 B T .
	Land ,mountainous.
	Soil ,good sandy loam ,medium texture, moist, underlayed with clay and limestone .
	Timber aspen and pine.
	Mountainous or timbered land 83 57 chs.

August,21,1914. John W. Dougall U.S. Surveyor

Chains.	
	August,13, 1914, From the cor. of secs. 29,30,31 & 32. here-to-fore described .
	1 run
	S.0°04'E. on a random line bet. secs. 31 & 32.
40.00	Set temp. ¼ sec. cor.
80.36	Intersect S. bdy. of Tp.33 lks. E.of cor. of secs. 31 and 32, here-to-fore described.
	Thence 1 run
	N.0°-10'E. on a true line bet .secs. 31 and 32.
	Descend through aspen timber.
5.90	Draw 75 ft. below sec. cor. drains S.10°W.
34.00	Top of spur 400 ft. above draw projects S.15°W.
40.36	Set an iron post,3 ft.long,1 in.in dia. 24 ins.in the ground for ¼ sec.cor. with brass cap marked

¼ S 31 | S 32
1914.

from which

An aspen 9 ins. diam. bears S.34°E.29 lks. dist. marked ¼ S 32 B T .

An aspen 10 ins. diam. bears S.65°W.29 lks. dist. marked ¼ S31 B T .

60.00	Head of draw 50 ft. below spur drains W.
63.30	Spur on W.slope 75 ft above draw projects W.
80.36	The cor. of secs. 29,30,31 & 32.

Land , mountainous ,

Soil, good sandy loam, 5 to 17 ins. deep, medium texture ,moist, on clay subsoil,

Timber, aspen.

Mountainous or timbered land , 80 36 chs.

August, 13, 1914.

August ,19, 1914, At 9 a.m. ,apparent time, I set off 41°23'N.on the lat. arc; 12°56'N.on the decl.arc; and determine a meridian with the solar at the cor,of secs 29,30,31 and 32 .

Thence I run.

Subdivision of T.8 N.R.4 E.

Chains.	
	N. 0°02'E. bet. secs. 29 and 30.
	Ascend along west slope through aspen timber.
40.00	Set an iron post, 3 ft. long 1 in.in dia. 24 ins. in the ground for ¼ sec.cor. with brass cap marked
	¼ S 30 | S 29 1914
	from which
	An aspen 12 ins. diam. bears S.85°E.24 lks. dist. marked ¼ S 29 B T .
	An aspen 10 ins. diam. bears S.30°W.11 lks. dist. marked ¼ S 30 B T .
	This cor. is 250 ft.above sec.cor.
50.00	Spur 75 ft. above ¼ sec. cor. projects W.
79.00	Enter scattering pine among aspen timber bears E.& W.
80.00	Set an iron post, 3 ft.long,2 ins .in diam.24 ins. in the ground, for cor. of secs. 19,20,29 and 30.with brass cap marked
	T 8 N R 4 E S 19 | S 20 ----+----- S 30 | S 29 1914
	from which
	An aspen 10 ins. diam. bears N.20°E. 43 lks. dist. marked T 8 N R 4 E S 20 B T .
	An aspen 10 ins. diam. bears S. 41°30'E. 31 lks. dist. marked T 8 N R 4 E S 29 B T .
	A pine 24 ins. diam. bears S.85°W.43 lks. dist. marked T 8 N R 4 E S 30 B T .
	A pine 24 ins. diam. bears N.8°30' W.; 1.15 chs.dist. marked T 8 N R 4 E S 19 B T .
	This cor. is 200 ft. below spur .
	Land ,mountainous.
	Soil, good brown sandy loam, 5 to 15 ins. deep.medium texture ,moist, underlayed with clay.
	Timber , aspen and pine .
	Mountainous or timbered land 80 00 chs.

Chains.

West on a random line bet. secs. 20 and 29.

40.00 Set temp. ¼ sec.cor.

August 19, 1914. At this cor, I setoff 12°53' N. on the decl.arc; and at 12 m., apparent time, observe the sun on the meridian ,;the resulting lat. is 41°24'

80.06 Intersect N. and S.line 7 lks. S. of cor. of secs. 20,21,28 and 29,

Thence I run

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

Descend through aspen timber.

5.45 Draw 100 ft. below sec. cor. spring branch 2 lks. wide 1 in. deep. runs S.

25.00 Spur 200 ft. above draw projects S.

31.00 Draw 170 ft. below spur drains S.20°E.

38.60 Conglomerate ledge 20 ft .high bears N.and S.

40.03 Set an iron post, 3 ft.long. 1 in.in dia. 24 ins. in the ground, for ¼ sec. cor. with brass cap,marked

S 20
¼

S 29
1914

from which

An aspen 11 ins. diam. bears S.43°20'W.1.85 chs. dist. marked ¼ S 29 B T .

An aspen 5 ins. diam. bears N.49°W. 88 lks. dist. marked ¼ S 20 B T .

This cor.is 190 ft. above draw.

55.00 Ridge 250 ft .above ¼ sec. cor. bears N. and S.

56.00 Good road bears N.and S.

71.00 Enter scattering pine among aspen timber.bears N.80°E . and S.80°W.

80.06 The cor. of secs. 19,20,29 and 30.

This cor, is 400 ft.below ridge .

Land ,mountainous.

Soil , good sandy loam, underlayed with clay and conglomerate stone .

Timber , aspen and pine .

August,19,1914.

Subdivision of T.8 N., R.4 E.

Chains.	
	Aug.20, 1914:
	From the cor.of secs.19,20,29, and 30 I run
	West on a true line bet.secs.19 and 30,
	Descend through aspen and scattering pine timber.
9.20	Draw, 75 ft.below sec.cor., drains S.80° W.
16.50	Same draw, drains N.80° W.
24.00	Low spur, projects N.75° W.4 chs. Leave scattering pine timber among aspens bearing N.80°W. and S.80° E.
29.00	Leave aspen timber, bears N.and S.
30.30	Draw, 75 ft.below spur, drains S.15° W.
30.50	Dim road, Ogden to Woodruff, bears N.15° E. and S.15° W.
33.00	Enter aspen timber, bears N.and S.
40.00	Set an iron post, 3 ft.long, 1 in.in dia., 24 ins.in the ground, for ¼ sec.cor., with brass cap marked
	S 19 ¼ S 30 1914
	from which
	An aspen 12ins.diam.bears N.6° W. 25 lks.dist. marked ¼ S 19 B T
	An aspen 12 ins.diam.bears S.51° W.49 lks.dist. marked ¼ S 30 B T
44.00	Low spur, 40 ft.above ¼ sec.cor., projects N.5.00 chs.
47.00	Head of small draw, 35 ft.below spur, drains N.5.00 chs. then E.
	Leave timber bears N.80° W. and S.80° E.
56.50	Low ridge, 45 ft.above head of draw, bears N.and S.
58.60	Intersect W.bdy.of Tp.1.45 chs.S.1° 46'W.of the cor.of secs.24 and 25, heretofore described.
	Set an iron post, 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for closing cor.of secs.19 and 30, with brass cap marked
	T 8 N S 24 | S 19 CC S 25 | S 30 R 3 E | R 4 E 1914
	from which

Chains.	
	An aspen 6 ins.dia.bears N.43° E. 17 lks.dist. marked T 8 N R 4 E S 19 B T
	An aspen 10 ins.dia.bears S.58°15'E.4.63 chs. dist., marked T 8 N R 4 E S 30 B T
	Land, mountainous.
	Soil, good, brown, sandy loam, 5 to 20 ins.deep, medium texture, moist, on clay subsoil, drains SW.
	Timber, aspen and pine.
	Mountainous or timbered land 58.60 chs.
	August 20, 1914: At this cor.I set off 12° 33' 30" N. on the decl.arc; and at 12 M.apparent time, observe the sun on the meridian; the resulting lat.is 41°24'
	August 20, 1914: At 2 p.m.,apparent time, I set off 41° 24' on the lat.arc; 12° 32'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.0° 02'E.bet.secs.19 and 20,
	Descend gently along W.slope; through aspen and pine timber.
5.00	Leave pine; continue in aspen timber,bearing E. and W.
12.00	Head of small draw, 50 ft.below sec.cor., drains S.75° W
15.00	Low spur, 40 ft.above draw, projects W.3.00 chs.
33.50	Road, Ogden to Woodruff, bears N.40° E. and S.40° W.
34.00	Head of draw, 50 ft.below spur, drains S.40° W.
40.00	Set an iron post, 3 ft.long, 1 in.in dia., 24 ins.in the ground, for ¼ sec.cor., with brass cap marked
	¼ S 19 | S 20 1914
	from which
	An aspen 9 ins.diam., bears N.45° E.3 lks.dist. marked ¼ S 20 B T

Subdivision of T.8 N.R 4 E.

Chains.	
	An aspen 8 ins. di m. bears S.45°W.3 lks. dist. marked . ¼ /S 19 B T .
41.00	Ridge 80 ft. above draw bears E. and W.; divide bet. Cache and Weber Counties.
43.00	Head of draw 50 ft. below ridge drains N.10°W.
73.40	Spur 60 ft. above draw projects W.
75.60	Draw 50 ft. below spur drains W. also leave timber bears E. and W.
78.00	Enter small aspen timber bears E. and W.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia. 24 ins. in the ground, for cor. of secs. 17, 18, 19 and 20, with brass cap marked

T 8 N R 4 E
S 18 | S 17

S 19 | S 20
1914

from which

An aspen 6 ins. diam. bears N.51°30'E. 56 lks. dist. marked T 8 N R 4 E S 17 B T .

An aspen 6 ins. diam. bears S.14°30'E. 45 lks. dist. marked T 8 N R 4 E S 20 B T .

An aspen 5 ins. diam. bears S.89°W. 1.23 chs. dist. marked T 8 N R 4 E S 19 B T .

An aspen 6 ins. diam. bears N.23°40'W. .52 lks. dist. marked T 8 N R 4 E S 18 B T .

This cor, is 60 ft. above draw .

Land , mountainous .

Soil, good brown sandy loam, medium texture, moist, on clay subsoil, drains NW. and SW.

Timber aspen and pine .

Mountainous or timbered land, 80.00 chs.

August, 20, 1914,

August, 21, 1914. At 8, a.m., apparent time, I set off 12° 17'30"N. on the decl. arc; 41°25' on the lat. arc; and determine a meridian with the solar at the cor. of secs. 17, 18, 19 and 20.

Chains. Thence 1 run

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

40.00 Set temp. ¼ sec.cor.

79.84 Intersect N. and S. line 19 lks. N.of cor.of secs. 16,17 20 and 21,

Thence 1 run

N.89°55'W., on a true line bet. secs. 17 and 20.

Ascend through pine and aspen timb er.

8.00 Road Ogden to Woodruff bears N.25 °E.and S.25°W.

10.00 Top of ridge 20 ft. above sec.cor. bears N.25°E.and S.85 W. also leave timber bears N and S.

Thence ascend along ridge to

24.50 Top of peak known as "Monte Christo" 150 ft. above sec. cor. from this peak the ridge extends S.20°W.

34.50 Enter aspen timber and chokecherry and willow underbrush bears N.and S.

39.92 Set an iron post, 3 ft.long,1 in.in dia. 24 ins. in the ground, for ¼ sec. cor. with brass cap marked

S 17
¼

S 20
1914

from which

An aspen 10 ins. diam. bears N.10°W.7 lks. dist. marked ¼ S 17 B T .

An aspen 10 ins. diam. bears S.21°W.9 lks. dist. marked ¼ S 20 B T .

57.00 Leave timber bears N.and S.also underbrush bears N.& S.

62.00 Enter scrubby aspen timber and dense underbrush bears N.30°E.and S.30°W.

79.00 Leave underbrush bears N.15°W. and S.15°E.

79.84, The cor. of secs. 17,18,19 & 20.

This cor. is 500 ft. below Monte Christo Peak

Land ,mountainous,

Soil, sandy loam, 4 to 17 ins. deep, medium texture , moist, underlayed with clay and gravel.

Timber , aspen and pine,underbrush willows and choke-

Subdivision of T.8 N., R.4 E.

Chains.	
	cherry.
	Mountainous or timbered land 79.84 chs.
	West on a true line bet.secs.18 and 19,
	Descend through aspen timber.
0.50	Enter chokecherry underbrush, bears N.and S.
1.50	Leave aspen timber and underbrush bears N.10° W. and S. 10° E.
8.30	Draw 210 ft.below sec.cor., drains N.20° W.
11.00	Enter aspen timber and chokecherry underbrush bears N.10° W.and S.10° E.
16.10	Top of spur 225 ft.above draw, projects N.20° W.
	Leave underbrush bearing N.and S. Thence gentle descent.
39.00	Draw 125 ft.below spur, drains N.45° W.
40.00	Set an iron post, 3 ft.long, 1 in.in dia., 24 ins.in the ground, for $\frac{1}{4}$ sec.cor., with brass cap marked S $\frac{1}{4}$ 18 1914 from which An aspen 12 ins.diam., bears N.3° E.9 lks.dist. marked $\frac{1}{4}$ S 18 B T An aspen 8 ins.diam.bears S.57°W.10 lks.dist. marked $\frac{1}{4}$ S 19 B T Thence ascend gently along N.slope.
56.05	Intersect W.bdy.of Tp.2.12 chs.S.1° 46'W.of cor.of secs. 13 and 24, heretofore described. Set an iron post, 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for closing cor.of secs.18 and 19, with brass cap marked T 8 N S 13 | S 18 C C S 24 | S 19 R 3 E | R 4 E 1914 from which An aspen 12 ins.diam.bears N.47° 30'E.36 lks.

Chains.	
	dist., marked T 8 N R 4 E S 18 B T
	An aspen 6 ins.diam.bears S.15° 30'E.30 lks.dist. marked T 8 N R 4 E S 19 B T
	Land, mountainous.
	Soil, good brown, sandy loam, 10 to 20 ins.deep,medium texture, moist, on clay subsoil.
	Timber, aspen; underbrush, chokecherry.
	Mountainous or timbered land 56.05 chs.
	August 21, 1914: At this cor.I set off 12° 14'N.on the decl.arc; and at 12 M. apparent time, observe the sun on the meridian; the resulting lat.is 41° 25'
	N.0° 02'E.bet.secs.17 and 18,
	Ascend gently through aspen timber.
0.50	Enter willow and chokecherry underbrush bears E.and W.
2.00	Spur, 25 ft.above sec.cor., projects N.80° W.
8.00	Draw, 60 ft.below spur, drains N.45° W.
24.20	Spur, 75 ft.above draw, projects N.75° W.
	Leave aspen; enter pine timber bears E.and W.
26.00	Enter aspen among pine timber,bears N.80° W. and S.80° E.
40.00	Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for ¼ sec.cor., with brass cap marked ¼ S 18 | S 17 1914
	from which
	An aspen 20 ins.diam.bears N.81° W.27 lks.dist. marked ¼ S 18 B T
	An aspen 16 ins.diam.bears S.42°E.35 lks.dist. marked ¼ S 17 B T
48.80	Draw 200 ft.below spur, drains N.80° W.;also leave timber and underbrush, bears E.and W.
53.00	Spur, 35 ft.above draw, projects W.5 chs.
55.40	Small draw, 35 ft.below spur, drains W.
70.00	Spur, 175 ft.above draw, projects W.10 chs.

Chains.	
72.00	Enter aspen timber and heavy chokecherry underbrush bears E . and W.
77.40	Draw 40 ft. below spur drains W. leave underbrushbears E. & W.
80.00	Set an iron post, 3 ft.long, 2 ins. dia. 24 ins. in the ground, for cor. of secs. 7,8,17 & 18.with brass cap marked

T 8 N | R 4 E
S 7 | S 8

S 18 | S 17
1914

from which

An aspen 6 ins. diam.bears N.12°E.80 lks. dist.
marked T 8 N R 4 E S 8 B T .

An aspen 9 ins. diam. bears S.29°30'E.59 lks. dist.
marked T 8 N R 4 E S 17 B T .

An aspen 7 ins. diam. bears S.36°30'W.60 lks. dist.
marked T 8 N R 4 E S 18 B T .

An aspen 6 ins. diam. bears N.51°30'W.40 lks. dist.
marked T 8 N R 4 E S 7 B T .

Land , mountainous, .

Soil, good brown sandy loam, 4 to 16 ins. deep, medium texture , moist , underlayed with clay and gravel.

Timber , aspen and pine underbrush chokecherry.

Mountainous or timbered land, 80.00 chs.

August, 21,1914,

August, 22,1914, From the cor. of secs. 7,8,17 & 18.

1 run

S.89°55'E., on a random line bet secs .8 and 17.

40.00 Set temp. ¼ sec. cor.

80 02 Intersect N. and S. line 12 lks. S. of true point for cor. of secs.8,9,16 & 17.

Thence 1 run

West on a true line bet. secs. 8 and 17.

Ascend through aspen timber .

16.00 Spur 290 ft. above sec. cor. projects N.10°W.20 chs. then NW.

Subdivision of T.8 N.R.4 E.

Chains.

38.50 Dra w 275 ft. below spur drains N.88°W. thence ascend gently along N. slope. also enter pine timber among aspen bears N.75°W. and S.75°E.

40.01 Set an iron post, 3 ft.long, 1 in.in dia. 24 ins.in the ground, for ¼ sec. cor. with brass cap marked

S 8
¼

S 17
1914

from which

A pine 18 ins. diam. bears N.12°E. 10 lks. dist. marked ¼ S 8 B T .

A pine 16 ins. diam. bears S.25°E. 21 lks. dist. marked ¼ S 17 B T .

43.00 Leave pine continue in aspen timber bears N.65°E.&S.65°W.

54.50 Draw 100 ft. below ¼ sec. cor. drains S.85°W.

74.00 Spur 75 ft.above draw projects S.70°W.

80 02 The cor. of secs. 7,8,17,& 18,

Land ,mountainous.

Soil, good clay loam, 4 to 17 ins.deep, medium texture, moist, on clay subsoil, drains W.

Timber ,aspen and pine . undergrowth young aspen timber.

Mountainous or timbered land,80.02 chs.

West on a true line bet. secs.7 and 18.

Descend through aspen timber .

9.70 Draw 75 ft. below sec. cor. drains S. 45°W.

14.60 Leave aspen timber bears N. and S.

18.00 Enter aspen timber bears N. and S.

26.70 Spur 90 ft.above draw projects S. 15 .chs.

40.00 Set an iron post, 3 ft.long, 1 in.in diam. 24 ins. in the ground, for ¼ sec. cor. with brass cap marked

S 7
¼
--- ---
S 18
1914

from which

An aspen 4 ins. diam. bears S.13°E.24 lks. dist.

Chains.

marked ¼ S 18 B T

An aspen 5 ins.diam.bears N.15° W.16 lks.dist.

marked ¼ S 7 B T

41.00 Draw 190 ft.below spur, drains S.3.00 chs., then SW.

Leave aspen timber, bears N.and S.

45.00 Spur, 50 ft.above draw, projects S.5 chs. Enter aspen timber bears N.and S.

53.40 Intersect W.bdy.of Tp.2.70 chs.S.1° 46'W.of cor.of secs. 12 and 13, heretofore described.

Set an iron post, 3 ft.long, 2 ins.in dia., 24 ins.in a stone mound,for closing cor.of secs.7 and 18, with brass cap marked

T 8 N
S 12 | S 7
CC
S 13 | S 18
R 3 E | R 4 E
1914

from which

An aspen 4 ins.diam.bears N.81°E.24 lks.dist.

marked T 8 N R 4 E S 7 B T

An aspen 6 ins.diam.bears S.37°E.7 lks.dist.

marked T 8 N R 4 E S 18 B T

Note: Point for corner falls in stony ground, where it is impossible to dig.

Land, mountainous.

Soil, good sandy loam 4 to 16 ins.deep, medium texture, moist, underlaid with clay and limestone

Timber, aspen.

Mountainous or timbered land 53.40 chs .

August 22, 1914: At this cor.I set off 11° 54'N.on the decl.arc; and at 12 M. apparent time observe the sun on the meridian; the resulting lat.is 41° 26'

August 22, 1914: At 2 p.m.apparent time, I set off 41° 26'N.on the lat.arc; 11° 52'N.on the decl.arc; and

Chains.	
	determine a meridian with the solar at the cor.of secs. 7,8,17, and 18.
	Thence I run
	N.0° 02'E.bet.secs.7 and 8,
	Ascend gently over mountainous land; through aspen timber
2.70	Spur, 35 ft.above sec.cor., projects N.80° W.
6.50	Draw, 75 ft.below spur, drains W.
10.00	Leave aspen timber, bears E.and W.
18.50	Spur, 125 ft.above draw,projects N.70° W.
	Enter aspen timber bears E.and W.
31.00	Head of draw, 110 ft.below spur, drains N.10° E.
37.00	Leave aspen timber bears N.20° E. and S.20° W.
40.00	Set an iron post 3 ft. long, 1 in.in dia., 24 ins.in the ground, for ¼ sec.cor., with brass cap marked ¼ S 7 | S 8 1914 from which A pine 12 ins.diam.bears N.4° 30'E.72 lks.dist. marked ¼ S 8 B T A pine 10 ins.diam.bears S.17° 30'W.77 lks.dist. marked ¼ S 7 B T
40.50	Enter scattering pine timber, bears N.80° E. and S.80°W.
42.00	Point of spur, 65 ft.above ¼ sec.cor., projects N.20°E.
53.00	Leave pine timber, bears E.and W.
53.20	Limestone ledge, 20 ft.high, bears E.and W.
55.25	Road, Ogden to Woodruff, bears N.80° E. and S.80° W.
55.60	Bottom of Skunk Creek Canyon, 390 ft.below spur, drains S.80° W.; thence abrupt ascent.
58.00	Limestone ledge, 20 ft.high, bears N.80° E. and S.80° W.
73.30	Enter aspen timber, bears N.50° E. and S.50° W.
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, with brass cap marked T 8 N | R 4 E S 6 | S 5 S 7 | S 8 1914

Chains. from which

An aspen 5 ins. diam. bears N. 8°E.1.01 chs. dist.
marked T 8 N R 4 E S 5 B T .

An aspen 5 ins. diam. bears S.12°E. 40 lks. dist.
marked T 8 N R 4 E S 8 B T .

An aspen 6 ins. diam. bears S. 61°W. 28 lks. dist.
marked T 8 N R 4 E S 7 B T .

An aspen 6 ins. diam. bears N.50°30'W. 50 lks. dist,.
marked T 8 N R 4 E S 6 B T .

This cor. is 500 ft. above canyon.

Land ,mountainous.

Soil, sandy loam with some gravel and limestone ledges.

Underlayed with gravel and limestone.

Timber, aspen and pine.

Mountainous or timbered land, 80 00 chs.

East on a random line bet. secs. 5 and 8.

0.00 Set temp ¼ sec. cor.

0.13 Intersect N. and S. line 19 lks.S.of cor. of secs. 4,5, 8 and 9,

Thence I run

S.89°52'W. on a true line bet. secs. 5 and 8.

Descend over mountainous land through pine timber.

3.40 Draw 150 ft. below sec. cor. drains N. 50°W.

8.70 Leave pine timber bears N.20°E. and S.20°W.

3.00 Spur 65 ft. above draw projects N.60°W.

9.00 Enter aspen timber bears N. and S.

4.00 Leave thick aspen timber enter scattering timber and chokecherry underbrush bears N. and S.

40.06½ Set an iron post, 3 ft.long,1 in.in dia. 24 ins. in th e ground,for ¼ sec. cor. with brass cap marked

S 5
¼

S 8
1914

from which

An aspen 6 ins. diam. bears N.68°30'E.1.68 chs.dist.

Chains.	
	marked ½ S 5 B T .
	An aspen 8 ins. diam. bears S.50°15'E. 1.94 chs.dist.
	marked ¼ S 8 B T .
	From this ¼ sec. cor. a small spring bears N.29°30'W.
	3.03 chs. dist. also leave underbrush bears N. and S.
42.40	Road Ogden to Woodruff bears N.20°E. and S.20°W.
42.50	Bottom of "Skunk Creek Canyon" 75 ft. below ¼ sec. cor.
	drains S.20°W.9.00 chs. then S.80°W.also leave timber.
72.00	Spur 300 ft.above canyon projects S.20°W. 5.00 chs.
79.00	Enter aspen timber bears N.30°W. and S.30°E.
80.13	The cor.of secs. 5,6,7 & 8.
	Land, mountainous.
	Soil, sandy loam with some gravel underlayed with limest
	Timber, aspen and pine underbrush choke cherry.
	Mountainous , or timbered land, 80.13 chs.
	August 22, 1914,

	August,24,1914, At 8 a.m. ,apparent time, I set off 11° 17' N.on the decl. arc; 41°27'N. on the lat.arc; and determine a meridian with the solar at the cor. of sec. 5,6,7 and 8.
	Thence I run .
	West on a true line bet. secs. 6 and 7.
	Descend over mountainous land through aspen timber .
7.00	Draw 65 ft. below sec. cor. drains S.50°W.
16.00	Leave aspen timber bears N. and S.
17.30	Spur 70 ft. above draw projects S.45°W.
25.00	Enter aspen timber and dense underbrush of chokecherry, bears N. and S.
34.00	Draw 100 ft.below spur drains S.45°W.
40.00	Spur 70 ft. above draw projects S.30°W.
	Set an iron post, 3 ft.long, 1 in. in dia. 24 ins. in the ground,for ¼ sec. cor. with brass cap marked
	S 6 ¼ --- S 7 1914

Chains.

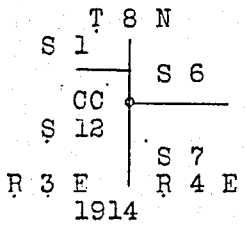
from which

An aspen 9 ins.diam.bears S.21° W. 24 lks.dist.
marked ¼ S 7 B T

An aspen 7 ins.diam.bears N.11°W.34 lks.dist.
marked ¼ S 6 B T

50.77 Intersect W.bdy.of Tp.3.50 chs.S.1°46'W.of cor.of secs. 1 and 12, heretofore described.

Set an iron post, 3 ft.long, 3 ins.in dia.,24 ins.in the ground, for closing cor.of secs.6 and 7, with brass cap marked



from which

An aspen 14 ins.diam.bears N.57° E. 16 lks.dist.
marked T 8 N R 4 E S 6 B T

An aspen 6 ins.diam.bears S.45° E. 43 lks.dist.
marked T 8 N R 4 E S 7 B T

Note: No 2-inch iron posts available.

Land, mountainous.

Soil, sandy loam, 4 to 10 ins.deep, medium texture, moist, underlaid with clay and limestone.

Timber, aspen; underbrush,chokecherry.

Mountainous, or timbered land 50.77 chs.

N.0° 02'E.on a true line bet.secs.5 and 6,

Ascend over mountainous land; through aspen timber.

2.00 Leave aspen timber, bears N.60° W. and S.60° E.

9.00 Spur, 110 ft.above sec.cor., projects S.75° W.

10.00 Enter aspen timber, bears E.and W.

37.00 Draw, 325 ft.below spur, drains W.

40.00 Set an iron post, 3 ft.long, 1 in.in dia., 24 ins.in the ground, for ¼ sec.cor., with brass cap marked

Subdivision of T.8 N.R.4 E.

Chains.	
	$\frac{1}{4}$ S 6 | S 5 1914
	from which
	An aspen 6 ins.diam.bears S.61° E.13 lks.dist. marked $\frac{1}{4}$ S 5 B T
	An aspen 6 ins.diam.bears N.85° W.63 lks.dist. marked $\frac{1}{4}$ S 6 B T
43.00	Leave aspen timber, bears N.70° E. and S.70° W.
55.00	Top of spur, 350 ft.above draw, projects N.80° W.
75.26	The old standard cor.of secs.31 and 32 on S.line of 2nd Standard Parallel N., bears west 4.30 chs.dist.
76.00	Enter scattering aspen and pine timber, bears E.and W.
83.00	Draw, 275 ft.below spur, drains N.10° W.,heads S.80° E.
84.04	Intersect 2d Standard Parallel N.45 lks.S.89° 42'E.of the standard $\frac{1}{4}$ sec.cor.on the S bdy.of sec.31, heretofore described.

Set an iron post, 3 ft.long, 1 in.in dia., 24 ins.in the ground, for closing cor.of secs.5 and 6, with brass cap marked

T 9 N | R 4 E
S 31 | S 32
C | C
S 6 | S 5
1914

from which

An aspen 5 ins.diam.bears S.31° 30'E.42 lks.dist. marked T 8 N R 4 E S 5 B T

An aspen, 5 ins.diam., bears S.52° 45'W.61 lks. dist., marked T 8 N R 4 E S 6 B T

Note: Neither 2-inch nor 3-inch iron posts available.

Land, mountainous.

Soil, sandy loam, 3 to 18 ins.deep, medium texture, moist with some gravel, underlaid with clay and gravel.

Timber, aspen and pine.

Mountainous or timbered land 84.04 chs.

August 24, 1914.

Thos. Rathbone

U.S.Transitman.

General Description.

This township is all mountainous and high.

The soil in general is good sandy loam .

A ridge called Monte Christo runs nearly N. and S. through the western part,ofthis township ,and forms the divide between Rich and Cache Counties . Monte Christo Peak which is in secs.17 and 20 forms the corner for Rich,Weber, and Cache Counties.

The East two thirds of this township drains NE. toward Bear River ,while the SW. portion drains SW. towards Ogden River,the NW. portion draining nearly west into Cache Valley.

On account of the elevation of this township there are numerous showers in summer and heavy snow fall in winter, which with the good soil produces an abundance of nutritious grasses ,making it ideal summer pasture for cattle, horses and sheep.

There is a heavy growth of aspen timber and chokecherry underbrush on most of this township,and some pine timber on north slopes.

There are no surface indications of mineral in this township.

There are numerous small springs and some creeks which with the timber enhance the value for grazing.

There are no settlers .

This township is included in the "Cache National Forest".

The rangers cabin is in the western part of sec. 6.

John W. Dougall
U.S. Surveyor

U.S. Surveyor.

Thos. C. Cathbone

U.S. Transitman.

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Page

4—680

BOOK A-410

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

Resurveyed 2nd. Standard Parallel through Rs. 4 & 5 E.

Resurveyed 1st guide Meridian through T. 8 N. Between Rs. 4 & 5 E

Resurveyed N. bdy. of T. 7 N. R. 4 E and the E. bdy. of T. 8 N. R. 3 E.

Subdivided T. 8 N R. 4 E.

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.	
Barnum B. Packard	July, 14, 1914	Aug. 24, 1914	Chainman
Carl Ray	July, 14, 1914	Aug. 24, 1914.	Chainman
Gordon G. Browne	July, 14, 1914	July, 25, 1914	Chainman
Fred Coffman	July, 14, 1914	Aug. 24. 1914	Chainman
Myron M. Michael	July, 14, 1914	Aug. 24, 1914	Flagman
D. Knowlton Reese	July, 14, 1914	July, 30, 1914	Flagman
Elliot Bird	July, 25, 1914	Aug. 24, 1914	Chainman
Henry Johansen	August, 18, 1914	August, 24, 1914	Axman
Joseph Smith	Aug. 18, 1914	Aug. 24. 1914	Axman
Robin Bingham	Aug. 18, 1914	Aug. 24. 1914	Flagman

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

John W. Dougall
U. S. Surveyor.

6—2761

Void

FINAL OATH OF UNITED STATES SURVEYOR.

I, John W. Dougall, U. S. Surveyor, do solemnly swear that, in pursuan of special instructions received from the U. S. Surveyor General for Utah. bearing date of the July 8 th day of July, 1914, 191, I have well, faithfully, and trul 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 Resurvey of 2nd Standard Parallel N. through Rs. 4 & 5 E. Resurvey of 1 Guide Meridian through T. 8 N. bet. Rs. 4 & 5 E Resurvey of N. bdy. of T. 7 N. R. 4 E. Resurvey of E. bdy. of T. 8 N. R. 3 E. and the Survey of Subdivision of T. 8 N. R. 4 E. of the Salt Lake Base and Meridian, in the State of Utah., which are represented 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. Survey General for Utah and in the specific manner described in the field notes, and th the foregoing are the original field notes of such survey.

John W. Dougall
U. S. Surveyor.

Subscribed by said John W. Dougall, and sworn to before me this 25 day of February, 1915

N. C. Thoresen
U. S. Surveyor General

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 surveys 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.

6—2761

BOOK A-410

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 .....

.....

.....

.....

.....

.....

.....

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.

TRANSITMAN.

FINAL OATH OF UNITED STATES ~~SURVEYOR~~.

I, Thomas C. Rathbone, U. S. ~~Surveyor~~ Transitman, do solemnly swear that, in pursuanc of special instructions received from the U. S. Surveyor General for Utah bearing date of the 8th day of July, 1914, 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 Township 7 North, Ranges 3 and 4 East; Township 8 North, Ranges 3,4,5, and 6 Ea and Township 9 North, Range 4 East

of the Salt Lake Base and Meridian, in the State of Utah, 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. Survey General for Utah and in the specific manner described in the field notes, and th the foregoing are the original field notes of such survey.

Thos. C. Rathbone
~~U.S. Surveyor~~
U.S. Transitman.

Subscribed by said Thomas C. Rathbone, and sworn to before me this 4th day of March, 1915

SEAL

M. A. Thoresen
U. S. Surveyor-General
for Utah.

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 be critically examined, and the necessary corrections and explanations made, the said field notes, and t surveys 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.

6—7761

BOOK A-410

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 ated opposite our several signatures, in surveying all those parts or portions of .....

.....

.....

.....

.....

.....

.....

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

hich are represented in the foregoing field notes as having been executed by him, and under his direc-n; and that said survey has been, in all respects, to the best of our knowledge and belief, well and thfully 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, John W. Dougall, U. S. Surveyor, do solemnly swear that, in pursuan of special instructions received from the U. S. Surveyor General for Utah bearing date of the 8th day of July, 1914, I have well, faithfully, and trul 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 Township 7 North, Ranges 3 and 4 East; Township 8 North, Ranges 3, 4, 5, and East; and Township 9 North, Range 4 East

of the Salt Lake Bas and Meridian, in the State of Utah, which are represented 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. Survey General for Utah and in the specific manner described in the field notes, and th the foregoing are the original field notes of such survey.

John W. Dougall
U. S. Surveyor.

Subscribed by said John W. Dougall, and sworn to before me this 25 day of February, 1915

M C Thoresen
U. S. Surveyor-General
for Utah.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Jan. 20, 1916

The foregoing field notes of the ~~survey~~ retracement and resurvey of Second Standard Parallel N., through Rs. 4, 5, and 6 E.; retracement of Second Standard Parallel N.R.3 E.; retracement of W.bdy. and subdivision of Township 9 N., R.4 E.; retracement and resurvey of N.bdy. T.7 N.R.4 E retracement and resurvey of First Guide Meridian T.8 N., between Rs. and 5 E.; retracement and resurvey E.bdy. T.8 N.R.3 E.; retracement N bdy. T.7 N.R.3 E.; and the survey of the subdivisional lines of T.8 N 4 E. of the Salt Lake Base and Meridian, Utah, executed by ~~John W. Dougall and Thomas C. Rathbone~~ their under ~~his~~ special instructions dated July 8, 1914 ~~xxx~~, having be critically examined, and the necessary corrections and explanations made, the said field notes, and t surveys they describe, are hereby approved.

M C Thoresen
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.

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U. S. Surveyor's Office
FEB 21 1914
SALT LAKE CITY, UTAH.

BOOK "B"

BOOK A-410

MKW.

FIELD NOTES

OF THE SURVEY OF THE

S U B D I V I S I O N

O F

TOWNSHIP 18 SOUTH, RANGE 4 EAST

Of the SALT LAKE BASE AND *Meridian,*

the State of U T A H

EXECUTED BY

HOWARD W. MILLER, ROBERT E. CLARK, AND THOMAS C. RATHBONE

AND U.S. TRANSITMEN

the capacity of U. S. Surveyor, under instructions dated July 19, *1913,*

ued by the United States Surveyor General to govern surveys included in

oup No. 25, *which were approved by the Commissioner of the General Land*

ice, August 13, *1913, pursuant to authority contained in the Act of*

ngress dated ....., *191*....

Survey commenced August 10, *1913*

Survey completed September 19, *1913.*

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BOOK 410

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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SUBDIVISIONS OF T. 18 S., R. 4 E.

Chains

Survey commenced August 10, 1913, and executed with a Young and Sons light mountain transit No. 8538, with solar attachment, and a W. and L. E. Gurley solar compass No. 10435. The transit is provided with two double verniers placed opposite to each other and reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs. The measurements were made with 5-chain steel tapes, and clinometers reading to 5' of arc. Instruments were approved by the assistant supervisor of surveys for this district.

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

At the cor. of secs. 1, 2, 35 and 36 on the S. bdy. of the Tp., heretofore described, in approximate lat. 39°12'N., long. 111°28'W., I set off 39°12'N. on the lat.arc, 15°33'N. on the decl. arc, and at 4h 35m p.m., l.m.t., determine with the solar a meridian, and mark the point thereof on a stake driven firmly in the ground, 5 chs. N. of my cor.

At 10h 16m p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual of Instructions and mark a point in the line thus determined on a hub driven in the ground, 5 chs. N. of my station.

August 10, 1913.

August 11, 1913: At 7 a.m., l.m.t., I lay off the azimuth of Polaris 1°29'46" to the west, and mark the meridian thus determined by a tack in the stake set August 10, on which the meridian falls 0.7 ins. east of the mark determined with the solar.

Chains	
	At 8h 05m a.m., l.m.t., I set off 30°12'N. on the lat. arc, 15°21'N. on the decl. arc, and mark a point in the meridian determined with the solar by a tack in the stake already set 5 chs. N. of my station; this mark falls 0.6 ins. west of the meridian established b the Polaris observation.
	The solar apparatus by p.m. and a.m. observations defines positions for meridians, respectively, 0'37"W. and 0'32"W. of the meridian established by Polaris observations; therefore I conclude that the adjustment of the instrument are satisfactory.
	The magnetic bearing of the true meridian at 8h 30m a.m. is N.17°20'W.; the angle thus determined gives the mag. decl. 17°20'E.
	From the cor. of secs. 1, 2, 35 and 36 on the S. bdy. of Tp., I run
	N.0°01'W. bet. secs. 35 and 36.
	Over rough mountainous land, draining S., through undergrowth of chaparral and willows. Asc. rapidly.
8.55	Leave thick undergrowth of chaparral and willows brs. N. and SW.
10.02	Base of steep slide, brs. NE. and SW. Thence asc. abruptly over slide rock and ledges.
23.86	Top of slide brs. NE. and SW., 800 ft. above base. Thence over nearly level bench.
28.00	Base of another slide, brs. E. and W. Asc. abruptly over slide rock and ledges.
34.00	Top of slide, 300 ft. above the base, brs. NE. and SW. Thence asc. gradually to top of ridge.
35.00	Top of ridge, 950 ft. above the cor., brs. NE. and SW. Thence desc. gradually over NW. slope of mtn. and enter scattering spruce timber, brs. NE. and SW.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked

S 35 ¼ | S 36

Subdivision of T.18 S., R 4 E.

hains.

from which

a spruce, 8 ins. dia., bears S.85°E., 40 lks. dist., marked S 36 ¼ BT

a spruce, 8 ins. dia., bears S 51½W., 66 lks. dist., marked S 35 ¼ BT

Cor stands about 900 ft. above sec. cor., on the N. slope of the ridge, 60 ft. below the top.

Storm of rain prevents observation for lat. and further field work this day.

August 11, 1913

August 12: At 8h 05m a.m., l.m.t., I set off 39°13' on the lat. arc; 15°03½' N. on the decl. arc, and determine a meridian with the solar at this ¼ sec.cor. Thence I continue

N.0°01'W.

Descend gradually over N. slope ofmtn., through undergrowth of chaparral. Leave spruce timber, bears N

.00 Descend abruptly toward plateau.

5.72 Base of steep descent, bears E. and W., 200 ft. below sec. cor., thence over nearly level plateau, draining E., through undergrowth of willow and buckbrush.

0.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 25, 26, 35 and 36, with brass cap marked

T 18 S | R 4 E
S 26 | S 25
S 35 | S 36
1913

from which

A spruce, 8 ins. dia., bears N.43½°E., 60 lks. dist., marked T 18 S R 4 E S 25 BT

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

Note.- No other bearing tree within limits.

Cor. stands on a rolling plateau, drains east.

August 12: At this cor. I set off 15°00' N. on the decl arc,

Subdivision of T.18S., R.4 E

Chains	
	and at 12^h05^m l.m.t., observe the sun on the meridian.
	The resulting lat. is 39°13'
	Land, on the S. 56 chs., is rough and mountainous, consisting of steep slides and ledges, with S. exposure.
	The N. 24 chs. is over rolling plateau, draining E.
	Soil, on the S 56 chs., is crumbled rock and gravel, on a rock subsoil; on the N. 24 chs., a moist black loam mixed with stones and decayed vegetation, on a rock subsoil; 2nd. and 4th. rate.
	Timber, 5 chs. of scattering spruce near the ¼ sec.cor.
	Undergrowth, chaparral and buckbrush, Willows on the S. 5 chs.
	Mountainous or heavily timbered land, 60 chs.
	East on a random line bet.secs. 25 and 36.
40.00	Set temp. ¼ sec. cor.
	Cease work.
	August 12, 191
	Aug. 13: At 7^h05^ma.m.,l.m.t. I set off 39°13' on the lat. arc; 14°46'N. on the decl. arc, aand determine a meridian with the solar at this temp. ¼ sec. cor. Thence I continue
	East.
79.88	Intersect the E. bdy. of Tp. 9 lks. N.of cor. of secs. 25, 30, 31 and 36, heretofore described.
	Thence I run N.89°56'W., on a true line bet. secs. 25 and 36.
	Ascend rapidly through forest of aspens.
29.65	Leave aspen timber, bears N. and S.
30.58	Ridge, 150 ft. above sec.cor., bears N. and S. ; thence descend gradually
32.00	Enter aspen and spruce timber, bears N. and SE.
39.94	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for ¼ sec; cor., with brass cap marked

Subdivision of T. 18 S., R. 4 E.

Chains	
	S 25 $\frac{1}{4}$ / S 36 1913
	from which
	A spruce 18 ins. dia. bears S.10°E., 43 lks. dist., marked S 36 $\frac{1}{4}$ BT.
	A spruce 24 ins. dia. bears N.60°W., 68 lks. dist., marked S 25 $\frac{1}{4}$ BT.
53.17	Leave aspen and spruce timber, bears N. and S. Thence over rolling land, descending gradually.
55.52	SW. end of a small lake, 12 chs. long, 6 chs. wide, about 6 ft. deep; no visible outlet; fed by snow. Ascend gradually.
56.00	Base of steep ascent, bears N. and S. Thence ascend abruptly through undergrowth of buckbrush.
66.90	Top of steep ascent, bears N. and S. Thence ascend more gradually through undergrowth of chaparral.
79.88	The cor. of secs. 25, 26, 35 and 36.
	Land, rough mountainous, with a general exposure to the E.
	Soil, gray loam, mixed with decayed vegetation and some rock, on a rock subsoil; 3rd rate.
	Timber, about 41 chs. of aspen and spruce.
	Undergrowth of buckbrush and chaparral.
	Mountainous or heavily timbered land, 79.88 chains.
	N.0°01'W. bet. secs. 25 and 26.
	Over rough mountainous land, descending rapidly into Cove Cr., through undergrowth of buck brush and chaparral.
12.37	Enter spruce timber bears E. and W.
13.80	Leave spruce timber, bears E. and W.
19.26	Enter dense forest of pine, spruce and aspen, bears NE. and SW.
26.00	August 13: At this sta. I set off 14°42'N. on the decl. arc, and at 12h 05m l.m.t., observe the sun on the meridian; the resulting lat. is 39°13'.

BOOK A-410

Chains	
38.35	Road, bears E. and W.
39.35	Descend abruptly over S. side of Cove Cr. Canyon.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, with brass cap marked S 26¼ | S 25 1913 from which A spruce, 12 ins. dia., bears N.48½°E., 35 lks. dist., marked S 25 ¼ B T. A spruce, 13 ins. dia., bears S.53½°W., 53 lks. dist., marked S 26 ¼ B T. Cor. stands on S. side of Cove Cr. Canyon, 20 ft. below top of descent. Continue abrupt descent.
45.00	Leave spruce and aspen timber, bears E. and W.
50.12	Enter spruce and aspen timber, bears E. and W.
59.62	Cove Creek, 15 lks. wide, 12 ins. deep, course east. good water, 150 ft. below the ¼ sec. cor. Leave spruce timber, bears E. and W. Ascend abruptly over N. side of canyon through forest of aspens.
67.35	Top of abrupt ascent, 300 ft. above creek, bears E. and W. Thence over rolling land draining east, through aspen timber.
75.21	Spring branch, 1 lk. wide, 2 ins. deep, course east, good water.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 23, 24, 25 and 26, with brass cap marked T 18 S | R 4 E S 23 | S 24 S 26 | S 25 1913 from which An aspen 12 ins. dia. bears N.68½°E., 202 lks. dist., marked T 18 S R 4 E S 24 BT. An aspen 18 ins. dia. bears S.57½°E., 170 lks. dist., marked T 18 S R 4 E S 25 BT.

Chains

An aspen 24 ins. dia. bears S.55¾°W., 365 lks. dist., marked T 18 S R 4 E S 26 B T.

An aspen 12 ins. dia. bears N.44¼°W., 362 lks. dist., marked T 18 S R 4 E S 23 B T.

Cor. stands on rolling land, draining E.

Land, first 67 chs. rough mountainous, with steep N. and S. slopes, draining into Cove Cr.; last 13 chs. over rolling land, draining E.

Soil, generally a gray and gravelly loam, mixed with decayed vegetation, on a rock subsoil, 3rd rate.

Timber, 47.55 chs. of aspen, spruce and pine.

Undergrowth, chaparral and buck brush on 80 chs.

Mountainous or heavily timbered land, 80 chs.

August 13, 1913.

August 16: At 8h 34m a.m., l.m.t., I set off 39°14'N. on the lat. arc, 13°49'N. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 23, 24, 25 and 26. Thence I run

S.89°56'E., on a random line bet. secs. 24 and 25.

28.00 August 16: At this sta. I set off 13°46'N. on the decl. arc, and at 12h 04m l.m.t., observe the sun on the meridian; the resulting lat. is 39°14'.

40.00 Set temp. ¼ sec. cor.

Cease work.

August 16, 1913.

August 18: At 8h 04m a.m., l.m.t., I set off 39°14' on the lat. arc; 13°11'N. on the decl. arc, and determine a meridian with the solar at this temp. ¼ sec. cor.

S.89°56'E., on a random line.

79.88 Intersect the E. bdy. of Tp. 12 lks. N. of cor. of secs. 19, 24, 25 and 30, heretofore described.

Thence I run

N.89°51'W., on a true line bet. secs. 24 and 25.

Over rough mountainous land draining SW. into Cove Cr., through undergrowth of buck and sage brush and chaparral.

Subdivision of T. 18 S., R. 4 E.

Chains	
3.00	Small wash, 30 lks. wide, 10 ft. deep, drains SW. Ascend, leave sagebrush, brs. N. and S.
18.00	Top of spur, 50 ft. above Tp. cor., projects S. 5 chs. Descend toward Cove Cr.
27.97	Wash, 10 lks. wide, 6 ft. deep, drains S. Ascend.
29.00	Top of small ridge, bears N. and S. 60 ft. above wash. Desc.
31.93	Wash, 10 lks. wide, 8 ft. deep, drains S. Ascend along S. side of Trail Ridge, bears E. and W., through buck brush undergrowth.
39.94	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked S 24 ¼ S 25 1913 raise a mound of stone, 2 ft. base, 1½ ft. high, north of cor.
	Cor. stands on S. slope of Trail Ridge, 80 ft. above wash
	Thence descend along S. slope of Trail Ridge, through buck brush.
54.88	Enter aspen timber, bears N. and S.
66.02	Stream, 3 lks. wide, 3 ins. deep, course SW., good water. Ascend over right bank, then descend.
68.00	Lake Fork Cr., 10 lks. wide, 10 ins. deep, course S., good water, 120 ft. below cor. Asc. gradually.
69.00	Small ridge, bears N. and S. 10 ft. above the creek. Asc.
77.88	Leave aspen timber, bears N. and S.
79.88	The cor. of secs. 23, 24, 25 and 26.
	Land, rolling mountainous, with general drainage to the S
	Soil, black loam, mixed with stone and decayed vegetation, on a clay and rock subsoil; 3rd rate.
	Timber, 23 chs. of aspen on the W. half mile.
	Undergrowth, buck brush and chaparral on 80 chs.; 3 chs. of sagebrush on E. end of mile.
	Rolling mountainous land, or land covered with heavy timber, 79.88 chains.

Subdivision of T. 18 S., R. 4 E.

Chains	
	N.0°01'W., bet. secs. 23 and 24.
	Over nearly level land, draining E., through thicket of aspen and chaparral undergrowth and buck brush.
23.36	Ascend more rapidly towards knoll.
39.12	Top of knoll, 180 ft. above the cor. Desc. gradually.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked S 23¼ | S 24 1913 from which An aspen 14 ins. dia. bears S.57½°W., 85 lks. dist., marked S 23 ¼ B T. An aspen 16 ins. dia. bears S.80¼°E., 76 lks. dist., marked S 24 ¼ B T.
	Cor. stands on N. side of top of knoll, 20 ft. below top.
	August 18: At this cor. I set off 13°08'N. on the decl. arc, and at 12h 04m l.m.t., observe the sun on the meridian; the resulting lat. is 39°14'.
	Descend rapidly toward creek.
43.00	Lake Fork Cr., 10 lks. wide, 12 ins. deep, course SE., good water, 50 ft. below cor. Asc.; leave aspen timber.
44.97	Ascend abruptly toward ledge.
59.00	Base of ledge, bears E. and W.
63.90	Top of ledge, bears E. and W., 200 ft. above creek. Descend through scattering pine, bears E. and W.
68.00	Hollow, drains SW., 80 ft. below the ledge. Asc. abruptly.
73.73	Top of ledge, bears E. and W., 60 ft. above hollow. Descend.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 13, 14, 23 and 24, with brass cap marked T 18 S | R 4 E S 14 | S 13 S 23 | S 24 1913 raise a mound of stone, 2 ft. base, 1½ ft. high, west of cor.
	Land, rough mountainous, with general drainage and exposure to the SE.

Chains	
	Soil, except on ledges, a gray mountain loam mixed with gravel, on a rock subsoil.
	Timber, aspen on S. half of mile, and a few scattering spruce and pine on the N. half.
	Undergrowth, chaparral and buck brush on 80 chs.
	Mountainous or heavily timbered land, 80 chs.
	August 18, 1913.
	August 19: At 8h 04m a.m., l.m.t., I set off 39°15' on the lat. arc; 12°52'N. on the decl. arc, and determine meridian with the solar at the cor. of secs. 13, 14, 23 and 24. Thence I run
	S.89°51'E., on a random line bet. secs. 13 and 24.
40.00	Set temp. ¼ sec. cor.
79.92	Intersect E. bdy. of Tp. 5 lks. N. of the cor. of secs. 1 18, 19 and 24, heretofore described. Thence I run
	N.89°49'W., on a true line bet. secs. 13 and 24.
	Over mountainous land, draining NE. into Little Bear Cr., through spruce timber. Descend gradually.
1.79	Spring branch, 4 lks. wide, 3 ins. deep, course NE., good water. Ascend gradually toward ridge, through undergrowth of buck brush. Branch is 20 ft. below the cor.
2.50	Leave spruce timber, bears N. and S.
39.96	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ½ sec. cor., with brass cap marked
	S 13 / ¼ / S 24 / 1913
	dig pits 18 x 18 x 12 ins. E. and W. of post, 3 ft. dis raise a mound of earth, 3½ ft. base, 1½ ft. high, north of cor.
	Cor. stands on east side of top of ridge, 160 ft. above creek.
41.78	Top of ridge, bears NW. and SE., about 15 ft. above ¼ sec cor. Thence descend gradually over W. slope.
47.50	Enter dense grove of spruce and pine, bears N. and S.
48.65	Leave dense grove of spruce and pine, bears N. and S.

Subdivision of T.18 S.,R.4 E.

Chains	
	Thence over rolling mountain top.through chaparral and buck-brush undergrowth.
79.92	The cor. of secs. 13, 14, 23 and 24.
	Land, rolling mountainous, west half drains into Lake Fork Cr., and the east half into Little Bear Cr.
	Soil, disintegrated shale mixed with some gray loam, dry except the east 3 chs. Subsoil, gypsum rock, 3rd. rate.
	Timber, a few scattering clumps of spruce and pine along the west half, and 2 chains of spruce on the east end.
	Undergrowth, buck-brush and chaparral
	Rolling mountainous land, 79.92 chs.
	N.0°01'W., bet. secs. 13 and 14.
	Over rolling mountain top, gradually ascending, through undergrowth of buck-brush and chaparral.
16.87	Main top of Trail Ridge, bears E. and W. 1050 ft. above Lake Fork Cr.
	August 19, At this sta. I set off 12°48' N. on the decl. arc, and at 12^h04^m l.m.t., observe the sun on the meridian. The resulting lat. is 39°15'
	Descend gradually over N. slope of Trail Ridge, toward Little Bear Cr.
37.82	Little Bear Cr., 10 lks. wide, 3 ins. deep, course S.85°E., good water, 130 ft. below ridge. Asc.
40.00 m	Set an iron post, 3 ft. long, 1 in. diam., 24 ins, in the ground, for ¼ sec. cor., with brass cap marked S 14 ¼ | S 13 1913 raise a mound of stone, 2 ft. base, 1½ ft. high, West of cor.
	Cor. stands onS. side of Buck Ridge, about 50 ft. above the creek.
46.96	Top of Buck Ridge, 200 ft. above base, bears E, and W.
	Thence descend gradually over rolling land, draining NE.
70.00	Enter pine and spruce timber, bears E. and W.

Subdivision of T. 18 S., R. 4 E.

Chains.	
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 11, 12, 13 and 14, with brass cap marked

T 18 S	R 4 E
S 11	S 12
S 14	S 13

1913

from which

A spruce, 8 ins. diam., bears N.53¼°E., 135 lks. dist., marked T 18 S R 4 E S 12 BT

A spruce 24 ins. diam., bears S.65¾°E., 444 lks. dist., marked T 18 S R 4 E S 13 BT

A spruce, 8 ins. diam., bears S.69°W., 352 lks. dist., marked T 18 S R 4 E S 14 BT

A spruce, 10 ins. diam., bears N.43¾°W., 92 lks. dist., marked T 18 S R 4 E S 11 BT

Land, rolling mountainous, with general drainage east.

Soil, black mountain loam, moist, on gypsum sub-soil 2nd. rate.

Timber, about 10 chs. of spruce on the north half.

Undergrowth, chaparral and buck-brush,

Good land for grazing.

Rolling mountainous land, 80 chs.

August 19, 1913.

August 22: At $7^h 33^m$ a.m., l.m.t., I set off 39°16' on the lat. arc; 11°52'N. on the decl. arc, and determine a meridian with the solar at the cor. of secs 11, 12, 13 and 14. Thence I run

S.89°49'E., on a random line bet. secs. 12 and 13.

40.00 Set temp. ¼ sec.cor.

79.79 Intersect the E. bdy. of Tp. 2 lks. S. of the cor. of secs. 7, 12, 13 and 18, heretofore described.

Thence I run

N.89°50'W., bet. secs. 12 and 13, on true line,

Subdivision of T.18 S., R.4 E.

chains

Over mountainous land draining East into S. branch of Big Bear Cr. Ascend through scattering spruce toward small Spur. Buck brush and chaparral undergrowth.

14.21 Top of spur of Buck Ridge, projects N. 120 ft. above cor Desc.

16.01 Spring branch, 4 lks. wide, 2 ins. deep, course N., good water., 30 ft. below spur., thence over level land.

17.31 Spring branch, 4 lks. wide, 2 ins. deep, course N., good water

24.11 Spring branch, 2 lks. wide, 2 ins. deep., course N. 10°E., good water. Ascend. along N. side of ridge.

24.81 Leave spruce timber, bears N. and S. Thence over rolling land through a few scattering spruce. and pine.

39.89½ Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground for ¼ sec. cor. with brass cap marked

S 12
¼
S 13
1913

from which

A spruce, 14 ins. diam., bears S27¼°E., 187 lks. dist., marked S 13 ¼ B T

A spruce, 12 ins. diam., bears N 16¾°W., 230 lks. dist., marked S 12 ¼ B T

Descend gradually.

43.75 Spring branch, 2 lks. wide, 2 ins. deep, course NE., good water.

47.04 Spring branch, 2 lks wide, 2 ins. deep, course NE., good water. Ascend gradually.

63.00 Enter spruce and balsem fir timber, bears N. and S.

65.75 Base of a ledge, bears N. and S. Ascend abruptly.

70.08 Top of ledge, bears N/ and S. Thence over rolling top of spur of Buck Ridge, projects N.

79.79 The cor. of secs. 11, 12, 13 and 14.

August 22: At this cor. I set off 11°49' N. on the decl. arc, and at 12^h03^m observe the sun on the meridian. The resulting lat. is 39°16' n.

Subdivision of T.18 S., R.4 E.

Chains.

Land, generally rolling mountainous,,along the base of the N. slope of Buck Ridge, which bears E. and W., Drainage and exposure North into S. Fork of Big Bear Cr.

Soil, black loam, mixed with decayed vegetation, and contains much moisture in places; gravelly subsoil; 2nd. and 3rd. rate.

Timber, 45 chs. of heavy spruce and balsam fir, and about 20 chs. of scattering spruce.

Undergrowth, buck-brush and chaparral on 79.79 chs.

Mountainous or heavily timbered land, 79.79 chs.

N.0°01'W., bet. secs. 11 and 12.

Over rolling mountainous land, draining N. and E., descending toward S. Fork Big Bear Cr., through pine and spruce timber, and buck brush and chaparral undergrowth.

.85 Descend abruptly into head of small canyon, drains NE.

6.85 Bottom of canyon, drains N. 35°E., 75 ft. below sec. cor. Ascend gradually.

7.04 Leave pine and spruce timber, bears E. and W., and continue gradual ascent over broken ground covered with chaparral.

17.70 Top of spur, projects E. 15 chs., 100 ft. above canyon bottom. Thence descend into another canyon.

18.10 Enter pine and spruce timber, bears E. and W.

37.73 South . Fork of Big Bear Cr., 20 lks. wide, 6 ins. deep, course S. 85°E., good water, in bottom of canyon drains E., 150 ft. deep. Thence ascend over rolling ground toward ridge.

37.80 Leave heavy spruce and fir timber, bears E. and W., and thence through scattering pines and spruce.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground for ¼ sec. cor., with brass cap marked

S 11¼ | S 12

1913

Subdivision of T. 18 S., R.4 E.

Chaains

from which

A pine, 14 ins. dia., bears N. 43¼°E., 236 lks. dist., marked S 12 ¼ B T

A pine, 26 ins diam., bears N. 40¾°W., 49 lks. dist., marked S 11 ¼ B T

Ascend gradually over ridge.

53.35 Top of ridge, bears E. and W., 180 ft. above ¼ sec. cor.

Thence descend over rolling ground toward Big Bear Cr., through scattering pine and chaparral.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 1, 2, 11 and 12, with brass cap marked

T 18 S	R 4 E
S 2	S 1
S 11	S 12

1913

from which

A spruce, 13 ins. diam., bears N.24¼°E., 299 lks. dist. Marked T 18 S R 4 E S 1 BT

A spruce, 12 ins. diam., bears S. 51½°W., 184 lks. dist., marked T 18 S R 4 E S 11 BT

Note.- No other trees within limits in secs. 2 and 12.

Dig pits, 18 x 18 x 12 ins. in each sec., 5½ ft, dist., and raise a mound of earth 4 ft. base, 2 ft. high, West of cor.

Land, rolling mountainous, with general drainage to the E.

Soil, light, moist loam mixed with decayed vegetation, on gypsum sub-soil; 3rd. rate.

Timber, pine and spruce on 26.74 chs., and 42 chs. of scattering pine and spruce.

Undergrowth, buck-brush and chaparral on 80 chs.

Mountainous or heavily timbered land, 80 chs.

Aug 22, 1913

August 23: At 7^h33^m a.m., l.m.t., I set off 39°16' on the lat. arc; 11°33'N. on the decl. arc; and determine a true meridian with the solar at the cor. of secs. 1, 2,

Subdivision of T.18 S., R.4 E.

Chains	
	11 and 12. Thence I run
	S.89°50'E., on a random line, bet. secs 1 and 12.
40.00	Set temp. ¼ sec. cor.
79.81	Intersect E. bdy. of Tp. 12 lks. S. of cor. of secs. 1, 6, 7 and 12, heretofore described.
	Thence
	N.89°55'W. on a true line, bet. secs. 1 and 12.
	Over mountainous land, draining SW. into Big Bear Cr., descending rapidly over SW. slope of Wagon Road ridge, through undergrowth of chaparral.
12.33	Top of a precipitous ledge of gypsum and lime stone, bears N. and SE. Descend abruptly.
17.81	Base of ledge, bears N. and SE., 120 ft. below top. Descend less rapidly.
18.00	Enter aspen and pine timber, bears NW. and SE,
18.49	North end of Small pond, 3 chs. wide, 2 chs. long, bears S 3 chs.
21.11	Leave aspen and pine timber, bears N. and S, and enter dense buck-brush undergrowth.
25.91	Enter heavy aspen timber, bears N. and S.
34.01	Leave heavy aspen timber, bears N. and S. Thence descend gradually into Big Bear Cr.
38.21	Big Bear Cr., 10 lks. wide, 3 ins. deep, Course SE., good water; gentle currant on gravel bottom 150 ft. below the base of ledge. Thence ascend gradually toward high ridge through a few scattering spruce
39.90½	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground for ¼ sec. cor., with brass cap marked

S 1
¼
S 12
1913

from which

A spruce, 20 ins. diam., bears N.5½°W., 360 lks. dist., marked S 1 ¼ B T

A spruce, 24 ins. diam., bears S. 75° W., 495 lks. dist., marked S 12 ¼ B T

Cor. stands on nearly level bottom land.

Chains
44.01 Spring branch, 2 lks. wide, 2 ins. deep, course N.85°E.; good water. Thence ascend more rapidly over rolling mountainous land, through scattering spruce.

August 23: Sky is overcast at noon; observation for latitude is impossible.

79.81 The cor. of secs. 1, 2, 11 and 12.

Land, generally rolling mountainous, draining from the E. and W. into Big Bear Cr.

Soil, light brown loam, on gypsum subsoil, 3rd rate. An outcrop of gypsum and limestone occurs in E. half of the mile.

Timber, about 41 chs. of scattering spruce on the west, 11.21 chs. of heavy aspen timber on the east half.

Undergrowth, buck brush and chaparral, good for grazing.

Mountainous or heavily timbered land, 60 chs.

Storm of rain at 1:30 p.m. prevents further field work this day. August 23, 1913.

U. S. Transitman.

August 29: At 7h 31m a.m., l.m.t., I set off 39°16½' on the lat. arc; 9°28'N. on the decl. arc, and determine a true meridian with the solar at the cor. of secs. 1, 2, 11 and 12.

Thence I run

N.0°01'W., on a random line bet. secs. 1 and 2.

40.00 Set temp. ¼ sec. cor.

83.59 Intersect N. bdy. of Tp. 7 lks. east of the cor. of secs. 1, 2, 35 and 36, heretofore described.

Thence

S.0°04'E., on a true line bet. secs. 1 and 2.

Over rough mountainous land, with a general drainage east ascending rapidly over N. slope of Wagon Road Ridge, through chaparral undergrowth.

12.61 Top of Wagon Road Ridge, bears NW. and SE., 90 ft. above

Subdivision of T. 18 S., R. 4 E.

Chains	
	Tp. cor. Thence descend abruptly over S. slope of ridge.
38.00	Base of steep descent, bears E. and W. Descend more gradually.
38.69	Big Bear Cr., 6 lks. wide, 6-8 ins. deep, course SE., good water, 200 ft. below top of ridge. Thence ascend gradually.
43.09	Road bears NW. and SE.
43.69	Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in mound of stone, 2 ft. base, and 12 ins. in the ground, for ¼ sec. cor., with brass cap marked S 2 ¼ | S 1 1913 raise a mound of stone, 2 ft. base, 1½ ft. high, west of cor.
	Underlying rock prevents deeper setting of cor.
	Cor. stands on N. slope of spur, 50 ft. above creek.
	Ascend rapidly towards spur.
57.33	Top of spur, projects east 10 chs., 30 ft. above ¼ sec. cor. and 80 ft. above creek. Thence desc. toward a branch of above creek.
62.29	Creek, 4 lks. wide, 3 ins. deep, course east, good water; joins Big Bear Cr. 20 chs. E. Thence ascend toward high ridge. Creek is 60 ft. below spur.
62.00	Enter heavy forest of spruce and pine timber, bears E. and W.
71.00	Leave spruce and pine timber, bears E. and W.
83.59	The cor. of secs. 1, 2, 11 and 12.
	August 29: At this cor. I set off 9°23'N. on the decl. arc, and at 12h 01m l.m.t., observe the sun on the meridian; the resulting lat. is 39°16'.
	Land, mountainous with a general drainage E.
	Soil, dry loam, mixed with decayed vegetation, on a stony and rocky subsoil; 4th rate.
	Timber, 9 chs. of spruce and pine on the S. half.
	Undergrowth, chaparral. Good grass for grazing purposes.

Subdivision of T.18 S., R.4 E.

Chains

Mountainous or heavily timbered land, 80 chs.

Howard W. Miller
U. S. Surveyor.

August 14: At 8h 05m a.m., l.m.t., I set off 39°12' on the lat. arc; 14°26'N. on the decl. arc, and determine a true meridian with the solar at the cor. of secs. 2, 3, 34 and 35, on the south bdy. of the Tp. heretofore described.

Thence I run

N. 0°01' bet. secs. 34 and 35.

Over rough mountainous land with drainage N., over top of high ridge, through undergrowth of chaparral and buck brush.

10.00 Main top of ridge, bears E. and W. Thence descend over N. side.

17.67 Head of a hollow, drains N.E. into Cove Cr.; 50 ft. below the top, thence ascend gradually over ridge, bears N. 10°E and S.10°W.

35.00 Top of ridge, bears N. 10°E. and S.10°W., thense over flat top., 50 ft. above head of hollow.

40.00 Set an iron post, 3 ft. long, 1 in. diam, 15 ins. in the groundand 10 ins. in a mound of stone 2 ft. base, for ¼ sec. cor., with brass cap marked.

S 34¼ | S 35
1913

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

Note.- on account of underlying rock I am unable to set post more than 15 ins. in the ground.

Continue over nearly flat top of mountain, along the west side of ridge.

58.00 Commence gradual descent, bears NE. and SW.

58.98 Enter forest of spruce and pine, bears NE. and SW.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 26, 27, 34 and 35, with brass cap marked

T 18 S | R 4 E
S 27 | S 26
S 34 | S 35
1913

Subdivision of T.18 S., R.4 E.

Chains

from which

A spruce 24 ins. diam., bears N.26¾°E., 111 lks. dist., marked T 18 S R 4 E S 26 BT

A spruce, 30 ins. diam., bears S.65°E., 148 lks. dist., marked T 18 S R 4 E S 35 BT

A spruce, 28 ins. diam., bears S.65°W., 123 lks. dist., marked T 18 S R 4 E S 34 BT

A spruce, 10 ins. diam., bears N.58¼°W., 35 lks. dist. marked T 18 S R 4 E S 27 BT

August 14: At this cor. I set off 14°24'N. on the decl. arc and at 12h 05m l.m.t., observe the sun on the meridian; the resulting lat. is 39° 13'

Land, rolling mountainous, general drainage W. and S. following open top of high ridge on S 55 chs.

Soil, dry gray loam, mixed with crumbled and disintegrated shale rock, on a hard rock sub-soil; 4th. rate.

Timber, 21.02 chs. of heavy spruce and pine on the N. half.

Undergrowth, chaparral and buck-brush.
Mountainous land, 80 chs.

East. on a random line bet. secs 26 and 35.

40.00 Set temp. ¼ sec. cor.

80.16 Intersect N. and S. line 12 lks. S. of cor. of secs. 25, 26, 35 and 36.

Thence

S.89°55'W., on a true line bet. secs. 26 and 35.

Over mountainous land draining N. into Cove Cr, ascend toward high ridge through undergrowth of chaparral.

5.24 Top of ridge, bears N. and S., 120 ft. above sec. cor. Descend rapidly towards creek.

27.88 Creek, 10 lks. wide, 4 ins. deep, course N., good water, drains into Cove Cr., 220 ft. below ridge. Asc. gradually.

31.00 Top of small rise, 50 ft. above creek, Desc., to gulch.

36.30 Gulch, 10 lks. wide, 6 ft. deep, drains N., 60 ft. below ris Asc. abruptly toward high ridge.

Subdivision of T.18 S., R.4 E.

Chains	
40.08	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked S 26 ¼ S 35 1913
	dig pits, 18 x 18 x 12 ins. E. and W. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, north of cor.
	Continue ascent toward high ridge, through buck and sun brush.
57.35	Enter spruce and pine timber, bears N. and S. Ascend abruptly
69.41	Top of ridge, bears N. and S., 200 ft. above ¼ sec. cor. Thence descend gradually over rolling top.
80.16	The cor. of secs. 26, 27, 34 and 35.
	Land, rough mountainous, with general drainage N. into Cove Cr.
	Soil grey loam with some moisture, mixed with gravel, on rocky subsoil, 2nd. and 3 rd. rate.
	Timber, 22.81 chs. of spruce and pine on the W. half.
	Undergrowth, chaparral and buck-brush, and some sun-berry.
	Good grass for grazing.
	Mountainous or heavily timbered land, 80.16 chs.
	August 14, 1913
	August 15: At 7 h 34 m a.m., l.m.t., I set off 39°13' on the lat. arc; 14°09'N. on the decl. arc; and determine a true meridiam with the solar at the cor. of secs. 26, 27, 34 and 35.
	Thence I run
	N.0°01'W., bet. secs. 26 and 27.
	Over rough mountainous land, draining N. into Cove Cr., descend over NW. slope of ridge through spruce, pine and balsam fir timber, and undergrowth of chaparral and juniper.
6.46	Leave timber, bears E. and W. Enter flat, bears E. and W.
7.50	Leave flat, bears E. and W. Enter scattering forest of

Subdivision of T.18 S., R.4 E.

Chains

spruce, balsam fir and pine. Descend gradually.

14.01 Descend abruptly through heavier timber,

20.00 Spring branch, 6 lks. wide, 6 ins. deep, course NE., good water. 240 ft. below cor.

25.00 Enter exceptionally heavy spruce, fir and pine timber, bears E. and W.

39.60 Leave heavy timber, enter scattering fir and spruce timber, bears E. and W.

40.00 Cove Cr., 10 lks. wide, 6 ins. deep, course east, good water; at base of descent, bears E. and W., 1040 ft. below top of descent.

Point for ¼ sec. cor. falls in creek; no cor. set.

Ascend abruptly over S. side of ridge.

41.50 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for witness cor. to ¼ sec. cor., with brass cap marked

T 18 S | R 4 E
S 27 | S 26
WC | ¼
1913

from which

A balsam fir, 20 ins. diam., bears N.69½°E., 246 lks. dist., marked WC S 26 ¼ BT

A balsam fir, 30 ins. diam., bears S.7½°W., 224 lks. dist., marked WC S 27 ¼ BT

Witness cor. stands on S. side of ridge, 50 ft. above cr.

42.00 Leave spruce, fir and pine timber, bears E. and W., thence ascend gradually over rolling land.

45.19 Top of small spur, projects E. 10 chs., 100 ft. above cr. Descend gradually.

50.19 Wash, 20 lks. wide, 10 ft. deep, drains S.80°E. Ascend.

57.11 Base of steep ascent, bears N. 80°W., and S.80°E. Ascend abruptly.

60.00 Enter scattering forest of aspen, bears E. and W.

65.00 Leave aspen timber, bears E. and W., ascend more abruptly.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 22, 23, 26 and 27, with brass

Subdivision of T. 19 S., R. 4 E.

Chains

cap marked

T 18 S	R 4 E
S 22	S 23
S 27	S 26

1913

from which

An aspen, 10 ins. diam., bears N.30°E., 34 lks. dist., marked T 18 S R 4 E S 23 BT

An aspen, 8 ins. diam., bears S 33¼° W., 46 lks. dist., marked T 18 S R 4 E S 27 BT

An aspen 6 ins. diam., bears N. 71¾°W. 67lks, dist., marked T 18 S R 4 E S 22 BT

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

Note.- No bearing tree within limits in sec. 26.

Cor. stands on small bench, bears E. and W., 600 ft. above the Creek,

August 15: At this cor. I set off 14°05' N. on the decl. arc; and at 12^h04^m l.m.t., observe the sun on the meridian; the resulting lat. is 39°14'

Land, rough or rolling mountainous, draining E. into Cove Creek.

Soil, gravelly gray loam, dry, on a rocky and stony subsoil., 4th. rate.

Timber, 38.56 chs. of heavy spruce balsam fir and pine, and 20 chs. of scattering aspens.

Undergrowth, chaparral and some juniper.

Good grass for grazing.

Mountainous or heavily timbered land, 80,00 chs.

August 15, 1913

August 20: A heavy storm of rain lasting until 1 p.m. prevented field work in a.m., and observation for lat. was impossible.

August 20: At 1^h33^m p.m.l.m.t., I set off 39°14' on the

Subdivision of T. 18 S., R.4 E.

Chains	
	lat. arc; 12°28'N. on the decl. arc, and determine a true meridian with the solar at the cor. of secs. 22, 23, 26 and 27.
	Thence I run
	N.89°55'E., on a random line bet. secs 23 and 26
40.00	Set temp ¼ sec. Cor.
80.04	Intersect N. and S. line 7 lks. N. of the Cor. of secs. 23, 24, 25 and 26.
	Thence
	S.89°58'W., on a true line bet. secs.23 and 26.
	Over rough mountainous land, draining S., gradually ascending, through chaparral undergrowth.
2.24	Foot of steep ascent, bearsNW. and SE,, ascend abruptly. Enter dense forest of aspen timber, bears NW. and SE.
15.32	Leave dense aspen timber, bears NW and SE. Continue abrupt ascent, through undergrowth of chaparral, juniper, buck and service brush. Enter scattering balsam.
40.02	Set an iron post, 3 ft. long, 1 in. diam., 24 ins inthe ground, for ¼ sec. cor., with brass cap marked
	S 23 ¼ S 26 1913
	from which
	A balsam fir, 24 ins. in diam., bears S.18°W., 303 lks. dist., marked S 26 ¼ BT
	raise a mound of stone, 2 ft. base, 1½ ft. high, north of cor.
	Note.- No bearing tree within limits in sec.23.
	Cor. stands on a small spur projects S. 5 chs., 900 ft. above bottom of descent.
	Thence along S. side of Lake Ridge.
57.00	Spring branch, 4 lks, wide. 6 ins. deep., course S., good water. 50 ft. below cor., continue along side of ridge.
63.87	Head of small hollow, drains S. 30 lks. wide, 20 ft. deep.
68.24	Leave scattering balsam, bears E. and W. Enter exceptionall

Subdivision of T.18 S., R.4 E.

Chains

dense willow undergrowth, bears E. and W.

70.34 Spring branch, 6 lks. wide, 8 ins. deep, course S., good water.

71.34 Leave dense willow undergrowth, bears E. and W., and gradually ascend through chaparral undergrowth.

80.04 The cor. of secs. 22, 23, 26 and 27

Land, rough mountainous, draining S. into Cove Cr., along S. side of Lake Ridge.

Soil, rocky loam, mixed with decayed vegetation, on a rocky sub-soil; 4th. rate.

Timber, 55 chains of sparse, scattering balsam, and 13 chs. of dense aspen.

Undergrowth, chaparral, buckbrush, juniper and service, and 3 chs. of very dense willow on the W. half.

Good grass for grazing

Mountainous or heavily timbered land, or land covered with dense undergrowth. 80.04 chains.

August 20, 1913.

August 21: At $8^h 03^m$ a.m., l.m.t., I set off 39°14' on the lat. arc; 12°13' N. on the decl. arc, and determine a true meridian with the solar at the cor. of secs. 22, 23, 26 and 27.

Thence I run

N.0°01'W., bet. secs. 22 and 23

Over mountainous land draining S into Cove Cr., ascending toward Lake Ridge through chaparral undergrowth.

25.72 Top of Lake Ridge, bears NW. and E., 200 ft. above cor.

Thence descend gradually over rolling land into Lake Fork Cr., through chaparral and buckbrush undergrowth.

40.00 Set an iron post 3 ft. long, 1 in. diam, 24 ins in the ground, for ¼ sec. cor., with brass cap marked

S 22 ¼ | S 23
1913

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

Cor. stands on SE. side of Lake Ridge, 110 ft. below top.

Subdivision of T.18 S., R.4 E.

Chains

55.47 Enter flat, bears E. and W. Thence over nearly level land, through scattering clumps of spruce and pine. 60 ft. below the ¼ sec. cor.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, with brass cap marked

T 18 S	R 4 E
S 15	S 14
S 22	S 23

1913

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

Cor. stands on level flat, 60 ft. below ¼ sec. cor.

August 21: At this cor. I set off 12° 09' N. on the decl. arc, and at 12^h03^m l.m.t., observe the sun on the meridian; the resulting lat. is 39°15'

Land, rolling mountainous, draining east into Cove Cr., with N. and S. slopes.

Soil, dry, gray loam, mixed with stone, on gypsum sub-soil. 3rd. and 4th. rate.

Timber, a few scattering clumps of pine and spruce on the north half.

Undergrowth, buckbrush, and chaparral.

Good grass for grazing.

Mountainous or timbered land, 55 chs.

N.89°58'E., on a random line bet. secs. 14 and 23.

40.00 Set temp. ¼ sec. cor.

80.02 Intersect N. and S. line 1 lk. N. of the cor. of secs. 13, 14, 23 and 24.

Thence

S.89°58'W. on a true line, bet. secs. 14 and 23

Over rough mountainous land, draining SW., descending gradually over SW. side of trail ridge, through undergrowth of buck-brush and chaparral.

11.26 Top of a slide, bears NW. and SE, descend abruptly.

Subdivision of T.18 S., R.4 E.

Chains

20.00 Bottom of slide, bears NW. and SE. Thence descend less rapidly. Bottom of slide is 110 ft below top.

23.26 Enter aspen and pine timber, bears NW. and SE. Thence over land gently sloping SW.

25.25 Lake, 5 chs. long, 3 chs. wide, bears S. 4 chs. from line.

40.01 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked

S 14
¼
S 23
1913

from which

A pine, 10 ins. diam., bears N.32½°E., 33 lks. dist., marked S 14 ¼ B T

A pine, 24 ins. diam., bears south, 21 lks. dist., marked S 23 ¼ B T

Cor. stands 150 ft. below sec. cor.

48.62 Leave aspen and pine timber, bears NW and SE, continue gradual descent through chaparral and wild gooseberry.

56.92 Creek, 10 lks. wide, 6 ins. deep, course SE., good water 90 ft. below ¼ sec. cor. Asc. gradually.

59.72 Dim wagon road, bears NW and SE. Thence ascend rapidly.

63.42 Top of ascent, brs. N. and S. 100 ft. above cor. Thence over rolling land.

80.02 The cor of secs. 14, 15, 22 and 23.

Land, mountainous, with a general drainage SE.

Soil, black mountain loam, mixed with some gravel, on a gypsum sub-soil.

Timber, 25.36 chs. of aspen and pine.

Undergrowth, buck-brush, chaparral, and some wild gooseberry.

Mountainous or heavily timbered land, 80.02 chs.

August 21, 1913.

Thos. C. Rathbone
U. S. Transitman.

August 22: At $7^h 33^m$ a.m., l.m.t., I set off 39°15' on the lat. arc; 11°53'N. on the decl. arc; and determine a

Subdivision of T. 18 S., R. 4 E.

Chains

true meridian with the solar at the cor. of secs. 14, 15 22 and 23.

Thence I run

N.0°01'W., bet. secs 14 and 15

Over rough mountainous land, with SE. exposure, gradually descending over rolling land, through scattering fir, and spruce timber, and undergrowth of chaparral.

8.60 Spring branch, 4 lks. wide, 3 ins. deep, course SE., good water, 60 ft. below the cor.

10.00 Head of small hollow, drains SE. Thence ascend through denser spruce timber, bears E. and W.

18.19 Base of steep ascent, bears N.80°E. and S.80°W. Ascend abruptly.

23.66 Top of ascent, bears N.80°E. and S.80°W., 100 ft. above the base. Thence over rolling land on bench. Leave t timber, bears E. and W.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked

S 15 ¼ | S 14
1913

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

Cor. stands 75 ft. above top of ascent on S. slope.

44.96 Ascend abruptly over SE. slope af a ridge. brs. NE. and SW.

61.66 Top of spur, projects 5 chs. E. from ridge, 250 ft. above ¼ sec. cor. Descend gradually,

64.55 Descend abruptly onto level top, 65 ft. below top of spur. Thence over nearly level land, through chaparral undergrowth.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 10, 11, 14 and 15, with brass cap marked

T 18 S	R 4 E
S 10	S 11
S 15	S 14

1913

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

Subdivision of T. 18 S., R. 4 E.

Chains	
	Land, rough mountainous, SE. drainage and exposure on the east side of the main divide bet. San Pete and Castle valleys.
	Soil, rocky and stony, 4th rate, on rock gypsum subsoil.
	Timber, 23.66 chs. of spruce and fir timber, on the south part of the mile.
	Undergrowth, chaparral and buck brush.
	Fair amount of grass for grazing.
	Mountainous or heavily timbered land, 65 chs.
	N.89°58'E., on a random line bet. secs. 11 and 14.
40.00	Set temp. ¼ sec. cor.
	August 22: At this point, I set off 11°49'N. on the decl. arc; and at 12h 03m, l.m.t., observe the sun on the meridian; the resulting lat. is 39°16'.
80.10	Intersect N. and S. line 16 lks. N. of the cor. of secs. 11, 12, 13 and 14.
	Thence
	N.89°55'W. on a true line bet. secs. 11 and 14.
	Over rough mountainous land, draining NE., descending gradually toward wash, through undergrowth of chaparral.
3.60	Wash, 30 lks. wide, 20 ft. deep, drains N.40°E. Ascend gradually over flat. Wash is 20 ft. below cor.
28.04	Enter spruce and balsam fir timber, bears N.70°E. and S.70°W. Top of small rise, brs. N. and S. 20 ft. high. Descend gradually.
29.80	Spring branch, 4 lks. wide, 3 ins. deep, course N., good water, in head of hollow, 10 ft. below top of rise, drains N. Ascend gradually.
40.05	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked
	S 11 / ¼ / S 14 / 1913
	from which
	A spruce 12 ins. diam. bears N.15°E., 166 lks. dist., marked S 11 ¼ B T.

Subdivision of T. 18 S., R. 4 E.

Chains	
	A spruce 10 ins. diam. bears S.73°W., 131 lks. dist. marked S 14 ¼ B T.
	Leave spruce and fir timber, bears N. and S. Descend gradually.
42.10	Spring branch, 6 lks. wide, 4 ins. deep, course NE., good water 20 ft. below the ¼ sec. cor. Ascend abruptly towards main divide.
45.13	Top of abrupt ascent, bears NW. and SE. 150 ft. above the spring branch, thence ascend less rapidly.
64.12	Top of main divide bet. San Pete and Castle valleys, bears N. and S., 200 ft. above ¼ sec. cor. Thence descend gradually over W. side of divide, through buckbrush undergrowth.
80.10	The cor. of secs. 10, 11, 14 and 15.
	Cor. stands 100 ft. below top of divide.
	Land, rough mountainous, general drainage and exposure
	Soil, rocky and stony, 4th rate, on rock gypsum subsoil
	Timber, 13 chs. of spruce and balsam fir.
	Undergrowth, chaparral and buckbrush on W. 16 chs., with small amount of juniper.
	Fair grass for grazing purposes.
	Mountainous land or land covered with heavy timber, 80.10 chains.
	N.0°01'W., bet. secs. 10 and 11.
	Over mountainous land, gradually ascending along the wes slope of main divide, through scattering spruce and fi and chaparral undergrowth and buck brush.
12.57	Enter exceptionally heavy spruce and fir timber, bears N and SW. Ascend more gradually.
15.21	Leave spruce and fir timber, and ascend gradually to top of divide, brs. N.80°E. and S.80°W.
18.30	Top of spur, projects 5 chs. W. from main divide, 75 ft. above sec. cor. Thence over level land on the top.
23.70	Descend gradually along W. side of top of divide, brs. N.80°E. and S.80°W.
31.95	Foot of descent, brs. N.80°E. and S.80°W., 80 ft. below top, thence over bench land.

Subdivision of T.18 S.,R.4 E.

Chains	
40.00	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked S 10¼ | S 11 1913 raise a mound of stone, 2 ft. base, 1½ ft. high, west of cor.
52.60	Enter dense forest of spruce and balsam fir timber, bears NW. and SE. Ascend abruptly along W. slope of divide.
55.90	Leave spruce and fir timber, bears NW and SE., and enter exceptionally heavy undergrowth of service brush and chaparral.
59.50	Top of small spur, projects 5 chs. W. 75 ft. high. Thence descend gradually. Leave service brush.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 2, 3, 10 and 11, with brass cap marked T 18 S | R 4 E S 3 | S 2 S 10 | S 11 1913 raise a mound of stone, 2 ft. base, 1½ ft. high, west of cor. Cor. stands on W. slope of divide, 150 ft. below the top. Land, mountainous, with W. drainage and exposure, following along west side of top of divide. Soil, rocky and stony, mixed with old decayed vegetation, on rock subsoil; 4th. rate. Timber, 6 chs, of heavy spruce and fir. Undergrowth, chaparral and buckbrush, on 80 chs., and 3 chs. of service brush on N. half. Good grass for grazing. Mountainous or heavily timbered land, 80.00 chs.

S.89°55'E., on a random line bet. secs. 2 and 11.

40.00	Set temp. ¼ sec. cor.
80.03	Intersect N. and S. line, 2 lks. S. of the cor. of secs.

Subdivision of T. 18 S., R.4 E.

Chains.

1, 2, 11 and 12.

Thence

N.89°56'W., on a true line bet. secs. 2 and 11

Over rough mountainous land, draining E., ascending toward top of divide through chaparral and buckbrush undergrowth

16.90 Enter dense forest of spruce and balsam fir timber, bears N. and S. Ascend more gradually.

27.14 Leave spruce and fir timber, bears N. and S. Thence over nearly level land. 100 ft. above the cor.

40.01½ Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked

S 2
¼
S 11
1913

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

Ascend gradually to top of divide.

56.69 Main top of divide bet. San Pete and Castle valleys, bears N. and S., 150 ft. above the ¼ sec. cor. Desc. gradually.

70.89 Top of steep descent, bears N. and S. Descend abruptly.

75.05 Base of steep descent, bears N. and S. 120 ft. below top.

80.03 The cor. of secs. 2, 3, 10 and 11.

Cor. stands 225 ft, below top of divide.

Land, rough mountainous, the E. 70 chs. drains east, and W. 10 chs. drains West., the watershed bet. San Pete and Castle Valleys.

Soil, E. half, decayed vegetation mixed with gray loam, with a rocky and stony sub-soil; 3rd. rate; W. half, rocky and stony, on rock sub-soil, 4th. rate.

Timber, 10 chs. of spruce and fir timber on the E. half.

Undergrowth, buckbrush and chaparral.

Good grass for grazing on E. half.

Mountainous or heavily timbered land, 80.03 chains.

August 22, 1913.

August 29: For solar observations see line bet. secs. 1 and 2.

Subdivision of T. 18 S., R. 4 E.

Chains	
	N.0°01'W., on a random line bet. secs. 2 and 3.
40.00	Set temp. ¼ sec. cor.
83.44	Intersect N. bdy. of Tp. 5 lks. E. of the cor. of secs. 2, 3, 34 and 35, heretofore described.
	Thence
	S.0°03'E., on a true line bet. secs. 2 and 3.
	Over rough mountainous land, gradually ascending along W. side of divide, through chaparral and buck brush.
18.54	Top of divide, bears N. and S., 100 ft. above Tp. cor. Thence gradually descend along W. side of top.
36.54	Wash in head of hollow, 15 lks. wide, 10 ft. deep, drains NW. 120 ft. below top. Asc. gradually.
37.00	Dim wagon road bears NE. and SW.
43.44	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked S 3¼ | S 2 1913 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Cor. stands on NW. slope, 50 ft. above the wash.
	Continue gradual ascent towards bench.
56.49	Top of ascent, thence descend abruptly over S. side of bench, 75 ft. above sec. cor.
58.54	Base of steep descent, bears E. and W., thence descend gradually through scattering spruce and fir timber, bears E. and W.
83.44	The cor. of secs. 2, 3, 10 and 11.
	Land, rough mountainous, with general drainage and exposure west, along west side of top of divide.
	Soil, gray, dry loam, mixed with decayed vegetation and stones, on a rocky subsoil; 4th rate.
	Timber, about 25 chs. of scattering spruce and fir on the south half.
	Undergrowth, chaparral and buck brush; good grass for grazing purposes.
	Mountainous land, 83.44 chs.
	August 29, 1913.

Chains

August 13: I examine the adjustments of compass No. 1043 and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during the a.m. and p.m. hours with a meridian determined by observation made on Polaris, I proceed as follows:

At my camp, which is located in the center of sec. 33, in lat. 39°12½'N., long. 111°31'W., I set off 39°12½' on the lat. arc; 14°39'N. on the decl. arc., and at 4h 35m p.m., l.m.t., determine with the solar a meridian, and mark the point thereof by a tack in a stake driven firmly in the ground, 5 chains N. of my station.

At 10h 05m p.m. by my watch, which carries correct l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined on a stake set in the ground, 5 chs. N. of my station.

August 13, 1913.

August 14: At 7 a.m., l.m.t., I lay off the azimuth of Polaris, 1°30' to the west, and mark a point in the meridian thus determined by a tack in the stake set August 13, on which the meridian falls 0.8 ins. west of the mark determined with the solar.

At 7h 35m a.m., l.m.t., I set off 39°12½' on the lat. arc, 14°27½'N. on the decl. arc, and mark a point in the meridian thus determined with the solar by a tack in the stake already set 5 chains N. of my sta.; this mark falls 0.6 ins. west of the meridian established by Polaris observation.

The solar apparatus, by a.m. and p.m. observations defines positions for meridians, respectively 0'42" east, and 0'32" west of the meridian established by Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

From the cor. of secs. 3, 4, 33 and 34 on the S. bdy. of the Tp., heretofore described, I run

N.0°02'W., bet. secs. 33 and 34.

Subdivision of T. 18 S., R. 4 E.

Chains	
	Over rough mountainous land, draining S., ascending gradually toward high ridge, through forest of aspen and spruce, and undergrowth of chaparral.
2.65	Wash, 30 lks. wide, 10 ft. deep, drains S.
4.00	Ascend abruptly over S. slope of ridge.
6.00	Leave aspen and spruce timber, bears E. and W.
13.60	Road bears NE. and SW.
19.60	Top of main divide, bears E. and W., 300 ft. above Tp. cor. Thence over level top.
20.00	Road, bears E. and W.
20.50	Descend abruptly over N. slope of ridge, through scattering spruce and pine timber, into Cove
22.00	Wash, 20 lks. wide, 10 ft. deep, drains NE., thence ascend toward spur; leave timber, bears E. and W. Wash is 50 ft. below top.
39.80	Top of spur, projects NE. 5 chs. Thence over rolling land, gradually descending.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked S 33 | S 34 ¼ 1913 raise a mound of stone, 2 ft. base, 1½ ft. high, west of cor.
	Cor stands on top of spur, 100 ft. below top of ridge.
46.00	Enter scattering forest of spruce and pine, bears E. and W. Descend more rapidly along E. side of Cove
75.60	Creek, 30 lks. wide, 6-8 ins. deep, course NE., good water. Leave timber, bears E. and W. Ascend towards small spur. Creek is 180 ft. below ¼ sec. cor.
78.60	Top of spur, projects NE. 5 chs., thence descend over rolling land. Spur is 40 ft. above the creek.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 27, 28, 33 and 34, with brass cap marked T 18 S | R 4 E S 28 | S 27 S 33 | S 34 1913 raise a mound of stone, 2 ft. base, 1½ ft. high, west

Subdivision of T. 18 S., R. 4 E.

Chains	
	of cor.
	August 14: At this cor. I set off 14°23½'N. on the decl. arc, and at 12h 05m l.m.t., I observe the sun on the meridian; the resulting lat. is 39°13'.
	Land, rough mountainous; the first 20 chs. drains S. and the last 60 chs. drains N. into Cove Cr.
	Soil, except on the top of the divide, is a black loam, mixed with decayed vegetation, 2nd and 3rd rate, on a stony subsoil.
	Timber, 37 chs. of aspen, spruce and pine.
	Undergrowth, chaparral on 80 chs.; good grass for grazing.
	Mountainous or heavily timbered land, 80.00 chs.
	East, on a random line bet. secs. 27 and 34.
40.00	Set temp. ¼ sec. cor.
79.94	Intersect N. and S. line 12 lks. S. of the cor. of secs. 26, 27, 34 and 35.
	Thence
	S.89°55'W., on a true line bet. secs. 27 and 34.
	Over rolling mountainous land, with general drainage N. into Cove Cr., along top of mountain spur, projects N., through fir timber and chaparral undergrowth.
8.56	Leave fir timber, bears N. and S. Descend abruptly into fork of Cove Cr. Canyon.
39.97	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked
	S 27 / ¼ / S 34 / 1913
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Descend gradually.
	Cor. stands on small knoll in fork of Cove Cr. Canyon, drains N., 300 ft. below sec. cor.
	Descend more gradually.
61.52	Creek, 10 lks. wide, 6 ins. deep, course N., flows into Cove Cr., good water 60 ft. below ¼ sec. cor.
	Asc. gradually.
65.00	Top of low spur, projects N.5 chs. 50 ft. above the creek. Descend gradually.

Subdivision of T. 18 S., R.4 E

Chains	
77.00	Creek, 12 lks. wide, 6 ins. deep. course NE., flows into Cove Cr., good water 30 ft. below spur, Asc. gradually.
79.94	The cor. of secs. 27, 28, 33 and 34.
	Land, rolling mountainous, draining N. into Cove Cr., with a N. exposure.
	Soil, gray mountain loam, mixed with some stone and decayed vegetation, on a stony sub-soil; 3rd. rate.
	Timber, 8.56 chs. of fir on the E. end of the mile.
	Undergrowth, chaparral, on 80 chs. Good grass for grazing.
	Mountainous or timbered land, 79.94 chs.
	August 14, 1913
	August 15: At 8h 04m a.m., l.m.t., I set off 39°13' on the lat. arc, 14°08'N. 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°02'W., bet. secs. 27 and 28.
	Over mountainous land, draining NE., descending gradually ~~descending~~ through scattering forest of spruce and aspen, and chaparral undergrowth,
2.00	Head of hollow, drains NE , 15 ft. below the cor. Asc.
6.00	Top of spur, projects NE., 5 chs. 30 ft. above hollow. Desc.
12.00	Descend more abruptly.
16.00	Enter heavy forests of spruce and pine, bears E. and W.
19.60	Junction of two creeks, 30 lks. wide, 10-12 ins. deep, course NE., draining from the NW. and SW., good water. 100 ft. below spur. Asc. gradually.
21.00	Leave aspen, spruce and pine timber, bears E. and W., Ascend abruptly towards bench.
29.00	Top of bench, bears E. and W., 200 ft. above creek, thence over nearly level land on top of bench.
35,00	Enter scattering forest of spruce and pine, bears E. and W. Descend gradually.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked

S 28 | S 27
¼
1913

Subdivision of T.18 S.,R.4 E.

Chains	
	ffom which
	A red pine, 16 ins. diam., bears S. 65½°E.,118 lks. dist, marked S 27 ¼ B T
	A red pine, 24 ins. diam., bears S.19¾°W., 197 lks. dist, marked S 28 ¼ B T
41.00	Spring branch, 3 lks. wide, 3 ins. deep, course E., good water. Ascend gradually. Branch is 5 ft. below cor.
42.00	Ascend abruptly over S slope of ridge. Leave timber, bears E. and W.
58.00	Top of ridge, bears E. and W., 400 ft. above creek. thence over rolling land on top, gradually descending.
70.00	Descend abruptly.
75.90	Spring branch, 8 lks. wide, 4 ins. deep, course NE., good water.; 200 ft. below ridge. Asc. gradually.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 21, 22, 27 and 28, with brass cap marked

T 18 S	R 4 E
S 21	S 22
S 28	S 27

1913

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

Cor. stands on S. side of top of spur ,projects NE.10 chs.

August 15:

At this cor. I set off 14°05' N. on the decl. arc, and at 12^h04^m l.m.t., observe the sun on the meridian; the resulting lat. is 39°14'

Land, rough mountainous, general drainage east into Cove Cr.

Soil, a mixture of sandy clay and black loam, moist, on a gravelly subsoil; 3rd.rate

Timber, 28 chs. of fir, pine, spruce and aspen.

Undergrowth, chaparral on 80 chs. Good grass for grazin

Mountainous or heavily timbered land, 58 chs.

N.89°55'E., on a random line bet. secs. 22 and 27.

Subdivision of T.18S.,R.4 E.,

Chains.	
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.95	Intersect N. and S. line 7 lks. S. of the cor. of secs. 22, 23, 26 and 27.
	Thence,
	S.89°52'W., on a true line, bet. secs. 22 and 27.
	Over rough mountainous land, with N. exposure and drainage. descending abruptly through dense undergrowth of chaparral, service brush and juniper.
24.69	Bottom of steep descent, bears NW. and SE, leave heavy undergrowth, and enter heavy forest of aspen and spruce, and willows., bears NW. and SE. Descend gradually.
39.25	Old road bears NW. and SE
39.97½	Set an iron post, 3 ft. long, 1.in. diam., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked S 22 $\frac{1}{4}$ S 27 1913 from which An aspen, 8 ins. diam., bears N.30½°E., 5 lks. dist., marked S 22 $\frac{1}{4}$ B T An aspen, 6 ins. diam., bears S.54°E., 16 lks. dist., marked S 27 $\frac{1}{4}$ B T Cor. stands 280 ft. below sec. cor.
41.85	Cove Creek, 30 lks. wide, 10-12 ins. deep, course SE., good water. 30 ft. below the cor.,-Ascend abruptly, leave heavy aspen and spruce timber, and willows. bears N. and S.
48.46	Top of steep ascent, bears NW. and SE., 100 ft. above the creek, thence asc. less rapidly.
61.95	Top of spur, projects N. 5 chs. Thence descend gradually through scattering aspen, spruce and fir, with chaparral undergrowth. Spur is 180 ft. above the creek.
63.30	Head of hollow, drains N., 30 ft. below spur. Desc.
65.00	Top of small spur, projects N. 30 ft. above hollow. Desc.
70.75	Spring branch, 6 lks. wide, 3 ins. deep, course NE., good water, 60 ft. below spur. Thence desc. gradually.
79.95	The Cor. of secs. 21, 22, 27 and 28.
	Cor. stands 100 ft. above head of hollow.

Subdivision of T.18 S.,R.4 E.

Chains.

Land, rough mountainous with N. exposure, and drainage SE.

Soil, gray loam mixed with gravel, on a rocky sub-soil, 4th. rate.

Timber, 17 chs. of heavy spruce, pine and aspen and 20 chs. of scattering aspen, spruce and fir.

Undergrowth, chaparral, 15 chs. dense willow service brush and some juniper. Good grass for grazing.

Mountainous or heavily timbered land, 79.95 chs.

August 15, 1913.

August 21: At $1^h 33^m$ p.m., l.m.t., I set off 39°14' on the lat. arc, 12°08' N. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 21, 22, 27 and 28.

Thence I run

N.0°02'W., bet. secs. 21 and 22.

Over rough mountainous land, draining NE., descending gradually through scattering forests of spruce, red pine and chaparral undergrowth.

4.30 Head of hollow drains NE., 350 ft. below cor. Asc. gradually

13.50 Top of spur projects E. 6 chs., 150 ft. above hollow. Desc.

14.10 Creek, 20 lks. wide, 10 ins. deep., course E., 75 ft. below spur, thence ascend gradually.

19.00 Top of bench, 100 ft. above creek, thence over nearly level land on top.

38.00 Descend gradually

39.80 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for witness cor. to ¼ sec. cor., with brass cap marked

T18S | R4E
WC, ¼
S 21 | S 22
1913

from which

A spruce, 16 ins. diam., bears S. 65½°E., 27 lks. dist., marked W C S 22 ¼ B T

A spruce, 24 ins. diam., bears S 89½°W., 77 lks. dist., marked W C S 21¼ B T

Subdivision of T. 18 S., R. 4 E.

Chains	
40.00	Spring branch, 3 lks. wide, 3 ins. deep, course SE., good water, 80 ft. below bench.
	Point for ¼ sec. cor. falls in creek.
42.00	Foot of steep ascent, bears NW. and SE. Ascend rapidly over SE. slope of ridge. Leave spruce timber, bears E. and W.
47.67	Ascend more rapidly.
52.15	Enter scattering aspen timber, bears NE. and SW.
54.95	Leave aspen timber, bears NE. and SW. Thence follow along E. slope of ridge.
59.00	Wash, 20 lks. wide, 10 ft. deep, drains E.
61.06	Wash, 10 lks. wide, 5 ft. deep, drains E.
	Continue rapid ascent toward junction of spur with main ridge.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 15, 16, 21 and 22, with brass cap marked

T 18 S	R 4 E
S 16	S 15
S 21	S 22

1913

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

Cor. stands on E. side of top of high divide, 100 ft. above a natural basin to the east, and at junction with a spur projecting SE.

Land, rough mountainous, draining to the east, with SE. exposure.

Soil, sandy clay loam, on a rocky subsoil, 4th rate.

Timber, about 3 chs. of scattering aspen in the N. half, and 30 chs. of scattering spruce and red pine on the S. half of the mile.

Undergrowth, chaparral on 80 chs. Fair grass for grazing.

Mountainous or timbered land, 80.00 chs.

August 21, 1913.

August 23: At 7h 33m a.m., l.m.t., I set off 39°15' on the lat. arc, 11°33' N. on the decl. arc, and determine a true meridian with the solar at the cor. of secs. 15, 16, 21 and 22.

Chains	
	Thence I run
	N.89°52'E., on a random line bet. secs. 15 and 22.
40.00	Set temp. ¼ sec. cor.
79.90	Intersect N. and S. line 5 lks. S. of the cor. of secs. 14, 15, 22 and 23.
	Thence
	S.89°50'W., on a true line bet. secs. 15 and 22.
	Over mountainous land, gradually ascending over bench lan toward high ridge, through undergrowth of chaparral.
4.53	Base of steep ascent, bears N. and S. Ascend abruptly over E. side of high ridge.
13.95	Top of high ridge, bears N. and S.20°W., on high divide bet. San Pete and Castle valleys, 180 ft. above sec.cor
	Thence descend abruptly into a natural basin.
17.00	Base of steep descent, bears N. and S., thence over nearl level bottom of a basin, 200 ft. below ridge. This basin is about 50 chs. long, N. and S., and 15 chs. wide; Spring branch, 6 lks. wide, 4 ins. deep, course N good water, flows into lake N. of line.
24.00	Lake, known as "Blue Lake," bears N. 7 chs., contains abo 4 acres, and is fed by springs and perpetual snow banks Lake is in the N. end of the natural basin, and has no apparent outlet. Depth ranges from 2 to 20 ft.
27.00	Leave basin, bears N. and S., and ascend rapidly over NE. face of a high ridge.
32.03	Top of ridge, bears N. and S., 175 ft. above basin, Thence descend gradually over W. side of ridge.
37.90	Enter forest of spruce timber, bears N. and S. Descend towards another natural basin.
39.00	Leave spruce timber, bears N. and S.
39.95	Set an iron post, 3 ft. long, 1½ ins. diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked

S 15
¼
S.22
1913

from which

A spruce 19 ins. diam. bears N.80¼°E., 374 lks. dist

Subdivision of T.18 S., R.4 E.,

Chains	
	marked S 15 $\frac{1}{4}$ B T
	A spruce, 20 ins. diam., bears S.83$\frac{3}{4}$°E., 379 lks. dist., marked S 22 $\frac{1}{4}$ B T
	Cor. stands on W. slope of ridge, 50 ft. below top.
	Descend abruptly into the basin.
50.90	Base of ridge, bears N. and S., thence gradually descend into basin.
68.00	Center of basin, 150 ft. below $\frac{1}{4}$ sec. cor., contains about 80 acres, with no visible drainage outlet. Descend gradually towards small lake., in lowest part of basin.
75.00	Small lake, 3 chs. long, 2 chs. wide, lies N. of line, ; line crosses S. bank. Fed by melting snow-banks; no outlet.
	Ascend abruptly onto high ridge. bears N. and S.
79.90	The cor. of secs. 15, 16, 21 and 22.
	Cor. stands 100 ft. above lake in basin.
	Land, mountainous, having steep N. and S. ridges, and two natural basins.
	Soil, gray loam, mixed with decayed vegetation, on a rocky and stony sub-soil, 4th. rate.
	Timber, 1.10 chs. of heavy spruce near $\frac{1}{4}$ sec. cor.
	Undergrowth of chaparral on 79.90 chs. Good grass for grazing.
	Mountainous, land, 45 chs.
	N.0°02'W., bet. secs. 15 and 16.
	Over rough mountainous land, ascending along E. side of divide, through scattering spruce and chaparral undergrowth.
8.00	Dim wagon road bears NE. and SW., on top of the main divide, bears NE. and SW., thence along W. side of top.
18.06	Head of Middle Fork of Manti Canyon, drains N.80°W., thence ascend gradually onto divide bet. N. Fork and Lowry Fork Canyons. Leave scattering spruce timber, bears E. and W.

Subdivision of T.18 S., R.4 E.

Chains	
39.00	Top of divide bet. canyons, 250 ft. above sec. cor., then descend abruptly into Lowry Canyon.
	August 23: Sky is overcast at noon, and observation for lat. is impossible.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked S 16 ¼ | S 15 1913 raise a mound of stone, 2 ft. base, 1½ ft. high, west of cor.
	Storm of rain at 1 p.m. prevents further field work this day.
	August 23, 1913
	August 25: At 8h 02m a.m., l.m.t., I set off 39°15' on the lat. arc, 10°51'N. on the decl. arc, and determine a meridian with the solar at the ¼ sec. cor. Thence N.0°02'W.
57.40	Enter dense spruce and balsam fir timber, bears NW. and S. thence descend abruptly.
62.48	Leave spruce and fir timber, bears E. amd W., and enter on flat bench, bears E.and W., 200 ft. below ¼ sec. cor. thence over flat land on bench.
73.36	Descend abruptly over N. end of bench, Bears NW. and SE through thick fall dead timber. Enter scattering spruce timber, bears E&w
80.00	Set an iron post, 3 ft. long. 2 ins. diam., 24 ins. in the ground, for cor. of secs. 9, 10, 15 and 16, with brass cap marked T18S | R4E S 9 | S 10 / S 16 | S 15 1913

from which

A spruce, 12 ins. diam., bears N.80½°E., 75 lks. dist. marked T 18 S R 4 E S 10 B T

A spruce, 24 ins. diam., bears S.82°E., 67 lks. dist., marked T 18 S R 4 E S 15 B T

Subdivision of T.18 S., R.4 E.

Chains	
	A spruce, 12 ins. diam., bears S.20½°W., 103 lks. dist., marked T 18 S R 4 E S 16 B T
	A spruce, 14 ins. diam., bears N. 6½°W., 98 lks. dist., marked T 18 S R 4 E S 9 B T
	Cor. stands on N. slope of bench, 400 ft. below ¼ sec. cor.
	Land, rough mountainous, with general drainage NW. into Manti Canyon.
	Soil, rich black loam, mixed with decayed vegetation, moist on the N. half, on gravel and clayey loam subsoil, 3 rd. rate.
	Timber, 25 chs. of scattering spruce, and 5 chs. of dense spruce and balsam on the N. half.
	Undergrowth, chaparral. Good grass for grazing.
	Mountainous or heavily timbered land, 70. chs.
	N.89°50'E, on a random line, bet. secs. 10 and 15.
40.00	Set temp. ¼ sec. cor.
79.93	Intersect N. and S. line at the cor. of secs. 10, 11, 14 and 15.
	Thence
	S.89°50'W. on a true line bet. secs. 10 and 15.
	Over rolling mountainous land draining NW. into N.Fork of Manti Canyon, descending abruptly over W. slope of divide, through chaparral undergrowth.
11.02	Base of steep descent, bears N. and S., 300 ft. below sec. cor. Thence descend more gradually.
17.33	Spring branch, 5 lks. wide, 4 ins. deep, course NW. good water.
26.93	Enter heavy forest of spruce and balsam fir, bears N. and S.
29.14	Spring branch, course NW., 4 lks. wide, 3 ins, deep, good water.
30.24	Spring branch, 3 lks. wide, 2 ins. deep., course N.W., good water.
32.73	Spring branch, 5 lks. wide, 5 ins. deep., course N W., good water.
38.60	Leave spruce and fir timber, bears N. and S.

Subdivision of T.18 S.,R.4 E.

Chains	
39.00	Enter scattering spruce timber, bears N. and S.
39.23	Spring branch, 3 lks. wide, 3 ins. deep, course N W., good water.
39.96½	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked.

S 10
¼
S 15
1913

ffom which

A spruce, 11 ins. diam., bears N.51°W., 82 lks. dist., marked S 10 ¼ B T

A spruce, 10 ins. diam., bears S.52½°W., 60 lks. dist. marked S 15 ¼ B T

Cor. stands 400 ft. below sec. cor.

August 25:

Sky is overcast at noon, observation for lat. is impossib

44.63	Spring branch, 4 lks. wide, 3 ins. deep, course NW., goo water.
52.61	Wagon road, bears N. and S, thence descend rapidly toward creek.
67.86	Lowry Fork Creek, 30 lks. wide, 8 ins, deep, course NW., good water, 80 ft. below ¼ sec. cor. Asc. gradually.
71.65	Wagon road, from lumber camps in N. Fork Canyon to Manti, bears NW. and SE.
79.93	The cor. of secs. 9, 10, 15 and 16.

Land, rolling mountainous, draining NW. into N. Fork Mant Canyon.

Soil, black loam, mixed with decayed vegetation and grave on a rocky sub-soil, 3rd. and 4th. rate. Well watered.

Timber, 12 chs. of heavy spruce and balsam fir, on the east half, and about 40 chs. of scattering spruce and f

Undergrowth, chaparral, on 79.93 chs. Good grass for grazing.

Mountainous or timbered land, 79.93 chs.

August 25, 1913.

Subdivivision of T.18 S., R.4 E.

Chains

August 28: At 7h 31m a.m., l.m.t., I set off 39°16' on the lat. arc; 9°49'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°02'W., bet. secs. 9 and 10.

Over rough mountainous land, draining NW., into head of Lowry Fork Canyon, descending gradually into canyon, through scattering spruce, aspen and balsam fir, and undergrowth of chaparral.

8.20 Wagon road, in bottom of canyon, bears NW. and SE., connects lumber camps, and road on main divide, with Manti.

11.45 Enter exceptionally heavy forest of spruce, bears NW. and SE.

12.50 Lowry Fork Creek, 35 lks. wide, 6 ins. deep, course NW, good water, 90 ft. below cor. Asc. rapidly.

13.00 Leave timber, bears NW. and SE. Thence ascend abruptly over S. slope of ridge.

21.65 Enter heavy forest of aspen and spruce, bears NW. and SE.

37.40 Top of ridge, bears NW. and SE., 400 ft. above the creek/ Divides Lowry and a branch of N. Fork Canyon. Leave heavy spruce and aspen timber, bears NW. and SE., and enter scattering spruce. Desc. rapidly.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked

S 9 | S 10
¼ | 1913

from which

A spruce, 16 ins. diam., bears N.48°E., 448 lks. dist., marked ¼ S 10 B T

A spruce, 12 ins. diam., bears N.42½°W., 356 lks. dist., marked, ¼ S 9 B T

Cor. stands on N. slope of ridge, 25 ft. below top.

Descend abruptly over N. slope of ridge into canyon.

44.80 Enter heavy forest of spruce and balsam fir timber, bears E. and W.

50.82 Leave timber, bears E. and W., enter flat, bears E. and W. 120 ft. below cor.

Subdivision of T.18 S.,R.4 E.

Chains	
61.27	Leave flat, bearsE. and W., enter heavy forest of spruce and fir, bears E. and W., thence descend more gradually
64.72	Spring branch, 2 lks. wide, 3 ins. deep, course W., in hollow 400 ft. below top of ridge. Good water. Thence ascend abruptly over SW. slope of ridge. Leave timber, bears E. and W.
77.67	Enter scattering forest of spruce and aspen, bears E. and
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in th ground, for cor. of secs. 3, 4, 9 and 10, with brass cap marked

T18S	R 4E
S 4	S 3
S 9	S 10

1913

from which

A spruce, 6 ins. diam., bears S.60°E., 106 lks. dist., marked T 18 S R 4 E S 10 B T

A pine, 35 ins. diam., bears S.59°W., 209 lks. dist., marked T 18 S R 4 E S 9 B T

A spruce, 12 ins. diam., bears N.77½°W., 173 lks. dist marked T 18 S R 4 E S 4 B T

Note.- No bearing tree within limits in sec. 3

Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of co

From this sec. cor. the head-gate to a reservoir containin about 3 acres, bears S.36°14'E. Head gate is at the N. end of the reservoir.

Cor. stands on the S. slope of ridge, 500 ft. above creek.

Land, rough mountainous, draining NW., having ridges and canyons with steep N. and S. slopes.

Soil, black loam, mixed with decayed vegetation and gravel moist, on a black clay sub-soil; 2-3rd. rate.

Timber, 10 chs. of heavy aspen, spruce and fir, and 33 chs of scattering aspen, spruce and fir.

Undergrowth, chaparral and scattered sarvice. Good grass for grazing.

Mountainous or heavily timbered land, 80.00 chs.

Subdivision of T. 18 S., R. 4 E.

Chains	
	N. 89°50' E., on a random line bet. secs. 3 and 10.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line at the cor of secs. 2, 3, 10 and 11. Thence
	S. 89°50' W., on a true line, bet. secs. 3 and 10.
	Over rough mountainous land, dreining NW into N. Fork of Manti Canyon, descending over W. side of main divide, and along N. side of ridge, bears NW. and SE., which joins main divide, through undergrowth of chaparral.
6.50	Wagon road, bears N. and S.; main road on divide.
21.62	Hollow, drains NW., 180 ft. below sec. cor. Ascend gradually along N. slope of ridge.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked
	S 3 / ¼ / S 10 / 1913
	from which
	A spruce, 20 ins. diam., bears N. 53° W., 85 lks. dist., marked ¼ S 3 B T
	Note.- No other bearing tree within limits in sec. 10.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, N of cor.
	Thence along N slope of ridge, through scattering spruce and fir, bears N. and S.
51.38	Saddle in ridge, bears NW. and SE. Thence ascend to top of ridge.
64.04	Top of ridge, bears NW. and SE., 600 ft. above creek. Thence gradually descend along S. Slope of ridge, through scattering aspens.
73.44	Head-gate of reservoir, containing 3 acres, bears S. 26°45' E. Head gate is in N. end of reservoir.
80.00	The cor. of secs. 3, 4, 9 and 10.
	Land, rough mountainous, draining N. and S. and following along N. and S. slopes of high ridge.
	Soil, dry gray loam mixed with decayed vegetation, on a rocky sub-soil, 4th rate.

Chains	
	Timber, scattering aspen spruce and fir, 38 chs.
	Undergrowth, chaparral on 80 chs. Fair grass for grazing.
	Mountainous land, 80 chs.
	August 28:
	Sky is overcast at noon, making observation for latitude impossible.
	2 p.m.- Storm of rain prevents further field work this day.
	Howard Miller August 28, 1913 U.S.Surveyor.
	September 2; At $37^h 30^m$ a.m., l.m.t., I set off 39°16½' N. on the lat. arc; 8°01½' N. on the decl. arc; and determine a true meridian with the solar at the cor. of secs. 3, 4, 9 and 10.
	Thence I run
	N.0°02'W., on a random line, bet. secs. 3, and 4.
40.00	Set temp. ¼ sec. cor.
83.72	Intersect the N. bdy. of Tp. 4 lks. west of the cor. of secs. 3, 4, 33 and 34. heretofore described.
	Thence
	South, on a true line, bet. secs. 3 and 4.
	Over rough mountainous land, draining NW., ascending toward high ridge, through spruce, pine and balsam fir timber, and chaparral undergrowth.
4.72	Leave spruce, fir and pine timber, bears E. and W.
13.51	Top of high ridge, bears NE. and SW., 100 ft. above Tp. cor
	Thence descend abruptly toward North Fork of Manti Cr.
43.72	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked
	S 4 | S 3 ¼ | 1913
	raise a mound of stone, 2 ft. base, 1½ ft. high, W of cor.
	Cor. stands 775 ft. below top of ridge.
	Continue abrupt descent into creek.

Subdivision of T. 18 S., R. 4 E.

Chains	
48.72	North Fork of Manti Creek, 20 lks. wide, 10 ins. deep, course NW., good water, 125 ft. below ¼ sec. cor., and 900 ft. below top of ridge. Ascend abruptly over S. side of canyon.
55.82	Enter forest of spruce, pine and balsam fir timber, bears E. and W. Ascend more gradually.
56.61	Spring branch, 3 lks. wide, 3 ins. deep, course N.5°W.; good water.
67.93	Leave spruce, pine and balsam fir timber, bears E. and W. Top of ascent, brs. E. and W. 80 ft. above North Fork of Manti Creek. Desc. gradually.
69.36	Head of small hollow, drains NW. 40 ft. below top of ascent. Asc. abruptly over steep ledge, bears E. and W.
73.70	Top of steep ledge, bears E. and W., 110 ft. above base. Thence ascend rapidly to top of ridge.
78.12	Top of ridge, bears E. and W. 400 ft. above creek. Thence descend gradually over S. slope.
83.72	The cor. of secs. 3, 4, 9 and 10.

Cor. stands 50 ft. below top of ridge.

September 2: At this cor. I set off 7°57'N. on the decl. arc, and at 12h 00m l.m.t., observe the sun on the meridian; the resulting lat. is 39°16'.

Land, rough mountainous, draining W., having steep N. and S. slopes on canyons and ridges running E. and W.

Soil, black loam, mixed with stone and decayed vegetation, on a black clay and rock subsoil; 3rd and 4th rate.

Timber, 12 chs. of heavy spruce, pine and fir, with scattering spruce and fir on the S. part of the mile.

Undergrowth, chaparral; good grass for grazing.

Mountainous or heavily timbered land, 83.72 chains.

Robert E. Clark. U. S. Transitman.

August 16: At 8h 04m a.m., l.m.t., I set off 39°12' on the lat. arc; 13°50'N. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 4, 5, 32 and 33, on the S. bdy. of the Tp., heretofore described.

Chains	
	Thence I run
	N.0°03'W., bet. secs. 32 and 33.
	Over nearly level top of divide bet. San Pete and Castle valleys, gradually ascending through undergrowth of chaparral.
7.60	Top of ridge, bears E. and W., at junction with main divi Descend gradually.
18.14	Descend abruptly into North Fork of Six Mile Canyon, ente spruce timber, bears E. and W.
22.50	Wagon road, bears NW. and SE., from top of divide to Mant
25.71	Spring branch, 8 lks. wide, 6 ins. deep, course W., good water; the head of N. Fork Six Mile Cr., 150 ft. below top of descent, thence ascend abruptly, leave timber, bears E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked S 32 | S 33 ¼ 1913 raise a mound of stone, 2 ft. base, 1½ ft. high, west of cor.
	Cor. stands 100 ft. above spring branch.
	Thence ascend gradually over rolling land, sloping west.
60.00	Top of ridge, bears N.10°W. and S.10°E., 110 ft. above ¼ sec. cor., the divide bet. Six Mile and Manti Canyon. Thence descend gradually.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 28, 29, 32 and 33, with brass cap marked T 18 S | R 4 E S 29 | S 28 S 32 | S 33 1913 raise a mound of stone, 2 ft. base, 1½ ft. high, west of cor.
	Cor. stands in small hollow, drains west, 70 ft. below rid
	Land, rolling mountain top, draining NW., and with NW.

Subdivision of T. 18 S., R. 4 E.

Chains	
	exposure, along W. side of main divide bet. San Pete and Castle valleys.
	Soil, rocky and gravelly, on a rock subsoil; 4th rate.
	Timber, 6.50 chs. of spruce on the S. half.
	Chaparral undergrowth on 80 chs.; good grass for grazing.
	Rolling mountainous land, 80.00 chs.
	East, on a random line bet. secs. 28 and 33.
40.00	Set temp. ¼ sec. cor.
79.88	Intersect N. and S. line 2 lks. N. of the cor. of secs. 27, 28, 33 and 34.
	Thence
	N.89°59'W., on a true line bet. secs. 28 and 33.
	Over rolling mountainous land, draining NE. into Cove Cr., through undergrowth of chaparral. Ascend gradually.
14.88	Spring branch, 8 lks. wide, 5 ins. deep, course NE., good water 40 ft. above sec. cor. Thence gradually ascend over bench.
20.00	W. side of bench, bears N. and S., ascend abruptly.
22.88	Top of steep ascent, bears N. and S., 50 ft. above bench. Thence over nearly level land on another bench, through scattering spruce.
27.90	Spring branch, 6 lks. wide, 6 ins. deep, course NE., alkaline water.
39.94	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked
	S 28 / ¼ / S 33 / 1913
	from which
	A spruce, 24 ins. diam. bears N.64½°W., 235 lks. dist., marked ¼ S 28 B T.
	A spruce 16 ins. diam. bears S.13¼°E., 174 lks. dist., marked ¼ S 33 B T.
	Continue over level bench.
44.38	W. edge of bench, bears N. and S., thence ascend abruptly over steep bank.

Subdivision of T. 18 S., R. 4 E.

Chains	
50.00	Top of steep descent, bears N. and S., thence over level bench, 100 ft. above ¼ sec. cor.
59.80	Enter swamp, bears N. and S., fed by snow banks.
65.00	Leave swamp, bears N. and S. Thence ascend abruptly to top of main divide. Leave scattering spruce.
68.10	Top of main divide, bears N. and S., 75 ft. above bench. Thence descend gradually over W. side of divide.
79.00	Wagon road, bears NW. and SE., main road on divide.
79.88	The cor. of sec. 28, 29, 32 and 33.
	August 16: At this cor. I set off 13°46'N. on the decl. arc, and at 12h 04m l.m.t., observe the sun on the meridian; the resulting lat. is 39°13'.
	Land, mountainous, having a series of benches, bearing N. and S., on the E. side of the main divide.
	Soil, moist black loam mixed with gravel and rock, on a rock subsoil, 3rd and 4th rate.
	Timber, scattering spruce on the W. half.
	Undergrowth, chaparral, good grass for grazing.
	Mountainous land, 60 chs.
	N.0°03'W., bet. secs. 28 and 29.
	Over rolling mountain top on main divide, ascending gradually through chaparral undergrowth.
.90	Wagon road, bears NW. and SE., from road on main divide to Manti.
24.99	Top of spur, projects NW. from main divide, 50 ft. above sec. cor., thence over rolling land on top of spur.
31.18	Descend abruptly into N. branch of South Fork of Manti Canyon, bears NW. and SE.
38.00	Enter forest of spruce and balsam fir timber, bears E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked

S 29 | S 28
¼
1913

Subdivision of T.18 S.,R.4 E.

Chains	
	from which
	A spruce, 10 ins. diam., bears S.9°E., 100 lks. dist., marked ¼ S 28 B T
	A spruce, 25 ins. diam., bears N.25½°W., 160 lks. dist., marked ¼ S 29 B T
	Cor. stands 100 ft. below top of spur.
42.20	Spring branch, 10 lks. wide, 8 ins. deep, course N.10°W., good water. Leave spruce timber, bears E. and W. Spring branch is 30 ft. below ¼ sec. cor.
45.00	Spring branch, 6 lks. wide, 2 ins deep, course N.20°W., good water. Descend more gradually.
55.96	Head of small hollow, drains NW., 100 ft. below ¼ sec. cor. Ascend gradually .
61.18	Top of small spur, projects W.,5 chs. 50 ft. above hollow. Descend rapidly. Enter scattering spruce, bears E& W.
77.17	Spring branch, 10 lks. wide, 8 ins. deep., course W., good water., 120 ft. below spur. Asc. gradually.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 20, 21, 28 and 29.,with brass cap marked

T18S	R 4E
S 20	S 21
S 29	S 28

1913

from which

A spruce, 8 ins. diam., bears N.31¾°E., 173 lks. dist., marked T 18 S R 4 E S 21 B T

A spruce, 9 ins. diam., bears S.74½°E., 186 lks. dist., marked T 18 S R 4 E S 28 B T

A spruce, 8 ins. diam., bears N.30°W., 177 lks. dist., marked T 18 S R 4 E S 20 B T

Note.- No tree within limits in sec. 29.

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

Land,mountainous, with a general drainage NW. into N. Fork of Manti Canyon.

Soil, gravelly and rocky, mixed with some loam, on a rock sub-soil. 4th. rate.

Timber, scattering spruce on about 24 chs.

Chains.

Undergrowth, chaparral on 80 chs.

Mountainous or timbered land, 80, chs.

S.89°59'E., on a random line bet. secs. 21 and 28

40.00 Set temp ¼ sec. cor.

79.89 Intersect the N. and S. line at the cor of. secs. 21, 22, 27 and 28.

Thence

N.89°59'W., on a true line, bet. secs. 21 and 28.

Over rough mountainous land, on the east side of the divid draining E. into cove creek., ascending rapidly through undergrowth of chaparral.

12.50 Spring branch, 6 lks. wide, 4 ins. deep, course N., good water. Thence ascend abruptly. Enter scattering spruc bears N. and S.

24.21 Top of steep,ascent, bears N. and S., Thence enter swamp land, bears N. and S., fed by melting snows.

28.71 Leave swamp land, bears N. and S. Ascend abruptly .

38.89 Top of steep ascent, thence gradually ascend over top of main divide.

39.94½ Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked

S 21
¼
S 28
1913

from which

A spruce, 24 ins. diam., bears N.36½E., 115 lks. dist., marked ¼ S 21 B T

A spruce, 6 ins. diam., bears S. 48W., 326 lks. dist., marked ¼ S 28 B T

40.89 Wagon road, bears N. and S., the main road on divide.

44.90 Top of main divide, bears N.10°E. and S.10°W., 500 ft. above sec. cor Leave scattering timber.; thence over flat top of divide.

71.75 Enter spruce and balsam fir timber, bears N. and S. Descend abruptly over W. slope of divide.

73.65 Bottomof steep descent, thence descend more gradually.

Subdivision of T. 18 S., R. 4 E.

Chains	
76.98	Leave spruce and balsam fir timber, bears N. and S.
79.89	The cor. of secs. 20, 21, 28 and 29.
	Land, rough mountainous, east 45 chs. drains E. into Cove Cr.; W. 35 chs. drains W. into Manti Cr. Line crosses the water-shed bet. San Pete and Castle valleys.
	Soil, generally stony and gravelly, on rock subsoil; the soil on benches is a wet, black mixture of decayed vegetation and loam, marshy.
	Timber, 40 chs. of scattering spruce and balsam fir.
	Undergrowth, chaparral, on 79.89 chs.
	August 16, 1913.
	U. S. Surveyor.

August 25: At 7h 32m a.m., l.m.t., I set off 39°14' on the lat. arc; 10°52'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.0°03'W., bet. secs. 20 and 21.

Over rough mountainous land, draining west into Manti Canyon, descending gradually towards gulch, through buck brush and chaparral undergrowth.

1.10	Enter scattering spruce timber, bears E. and W.
4.08	Stream, 10 lks. wide, 3 ins. deep, course west, good water in bottom of gulch, 75 ft. deep, drains W.
5.79	Leave scattering spruce, bears E. and W., in bottom of gulch; thence ascend abruptly.
25.11	Top of spur projects west, 450 ft. above gulch; thence descend gradually through buck brush.
30.00	Enter scattering spruce, bears E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked

S 20 | S 21
¼
1913

from which

A spruce 24 ins. diam. bears N.55½°E., 180 lks. dist., marked ¼ S 21 B T.

Subdivision of T. 18 S., R. 4 E.

Chains	
	A spruce 20 ins. diam. bears S.81°W., 215 lks. dist., marked ¼ S 20 B T.
	August 25, 12h 02m: Sky is overcast at noon; observation for lat. is impossible.
44.88	Leave scattering spruce timber, bears E. and W.
46.70	Creek, 12 lks. wide, 3 ins. deep, course west, good water 30 ft. below cor. Asc. gradually to spur.
75.32	Top of spur, projects W., 450 ft. above creek. Thence descend gradually.
76.00	Descend abruptly, enter scattering spruce timber, bears E and W.
79.54	Spring branch, 5 lks. wide, 1 in. deep, course N.5°E., good water 80 ft. below spur. Thence follow down left side of wash.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 16, 17, 20 and 21, with brass cap marked

T 18 S	R 4 E
S 17	S 16
S 20	S 21

1913

from which

A spruce 13 ins. diam. bears N.43¼°E., 59 lks. dist., marked T 18 S R 4 E S 16 B T.

A spruce 28 ins. diam. bears S.73¼°E., 68 lks. dist., marked T 18 S R 4 E S 21 B T.

Note: No other trees within limits in secs. 17 and 20.

Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

Cor. stands on N. side of spur, 80 ft. below top, in small wash, drains N.5°E.

Land, mountainous, draining W. into Manti Canyon.

Soil, moist black loam, mixed with decayed vegetation and gravel, on a gypsum rock subsoil; 3rd and 4th rate.

Timber, 25 chs. of scattering spruce on the mile.

Undergrowth, chaparral and buck brush. Good grass for grazing.

Subdivision of T. 18 S., R. 4 E.

Chains	
	Mountainous or timbered land, 80.00 chs.
	August 25, 1913.
	August 26: At 8h 02m a.m., l.m.t., I set off 39°15' on the lat. arc; 10°31' on the decl. arc, and determine a meridian with the solar at the cor. of secs. 16, 17, 20 and 21. Thence I run
	S.89°59'E., on a random line bet. secs. 16 and 21.
40.00	Set temp. ¼ sec. cor.
79.93	Intersect N. and S. line, 18 lks. N. of the cor. of secs. 15, 16, 21 and 22.
	Thence
	N.89°51'W., on a true line bet. secs. 16 and 21.
	Over open, rolling mountainous land, gradually descending along N. side of ridge, bears E. and W., through undergrowth of chaparral and buck brush.
3.00	Wagon road, brs. N. and S. Desc. abruptly into Middle Fork Creek.
30.33	Enter scattering spruce and pine, and continue along bench on N. side of ridge.
39.03	Spring branch, 3 lks. wide, 2 ins. deep, course N., good water, gentle current, gravel bottom, 200 ft. below divide.
39.96½	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked
	S 16 ¼ S 21 1913
	from which
	A spruce 26 ins. diam. bears N.42°E., 211 lks. dist., marked ¼ S 16 B T.
	A spruce 25 ins. diam. bears S.33¼°E., 171 lks. dist., marked ¼ S 21 B T.
	Thence ascend gradually, and leave scattering spruce.
50.00	Enter scattering spruce and pine, bears N. and S.
66.03	Spring branch, 4 lks. wide, 3 ins. deep, course NW., good water.
68.83	Top of spur, projects N. 5 chs. Thence descend abruptly.

Chains	
	Spur is 50 ft. above the spring branch.
78.73	Spring branch, 8 lks. wide, 3 ins. deep, course N.15°W., good water, 90 ft. below spur. Continue rapid descent, thence descend gradually to small wash.
79.93	The cor. of secs. 16, 17, 20 and 21.
	Cor. stands in small wash 100 ft. below spur.
	August 26: At this cor. I set off 10°27'N. on the decl. arc, and at 12h 02m l.m.t., observe the sun on the meridian; the resulting lat. is 39°15'.
	Land, E. half, rolling mountainous, W. half, rough mountainous; drains N. into Manti Canyon.
	Soil, light brown loam, mixed with gravel, on a slatey rock subsoil; 3rd and 4th rate.
	Timber, scattering clumps of spruce and pine on about 65 chs.
	Undergrowth, buck brush and chaparral, excellent grass for grazing.
	Mountainous or timbered land, 79.93 chs.
	N.0°03'W., bet. secs. 16 and 17.
	Over rough mountainous land, draining N. into Middle Fork Canyon, descending rapidly along wash from springs, through chaparral undergrowth.
4.96	Enter scattering spruce timber, bears NW. and SE.
5.00	Descend abruptly into canyon.
23.05	Leave scattering spruce timber, bears E. and W.
26.25	Enter dense spruce timber, bears E. and W.
27.95	Stream, 10 lks. wide, 4 ins. deep, course N.5°W., good water, 200 ft. below cor. Thence ascend spur.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked S 17 ¼ | S 16 1913 from which
	A spruce 12 ins. diam. bears S.35°E., 23 lks. dist.,

Subdivision of T.18S.,R.4 E.

Chains	
	marked ¼ S 16 B T
	A spruce, 8 ins. diam., bears N.85¼°W., 18 lks. dist., marked ¼ S 17 B T
	Cor. stands on S. side of spur. 80 ft. above stream/
42.00	Top of spur, projects NW, 50 ft. above. creek. Descend.
44.46	Leave dense spruce timber, bears E. and W. Descend more abruptly.
46.27	Middle Fork Creek, 12 lks. wide, 3 ins. deep, course west, good water, in Middle Fork Canyon, 180 ft. below ¼ sec. cor. Ascend very abruptly over N. side of canyon, through dense buckbrush.
65.19	Top of steep ascent, bears E. and W., thence over level bench. 250 ft. above creek.
68.00	Leave bench, bears E. and W., thence ascend abruptly over rock ledges.
69.10	Top of ledge, 750 ft. above the creek. Thence ascend more gradually to top of mountain. Enter scattering pine timber
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 8, 9, 16 and 17, with brass cap marked

T18S	R 4E
S 8	S 9
S 17	S 16

1913

from which

A pine, 8 ins. diam., bears S.26¼°E., 64 lks. dist., marked T 18 S R 4 E S 16 B T

A pine, 21 ins. diam., bears S.2½°W., 55 lks. dist., marked T 18 S R 4 E S 17 B T

A pine, 10 ins. diam., bears N.34½°W., 219 lks. dist., marked T 18 S R 4 E S 8 B T

Note.- No bearing tree within limits in sec. 9.

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

Cor. stands on the top of the ridge, 800 ft. above creek.

Land, rough mountainous, draining into Middle Fork Manti Canyon.

Subdivision of T.18 S., R.4 E.

Chains	
	Soil, gray loam, moist on the S. half, mixed with gravel, on rocky subsoil, 4 th. rate.
	Timber, 44 chs. of spruce timber on the S. half, 10 chs. scattering pines on the N. half.
	Undergrowth, buckbrush and chaparral very dense on the N. side of the canyon. Good grass for grazing.
	Mountainous or heavily timbered land, 80.00 chs.
	August 26, 1913.
	Tho. H. Rathbone.
	U. S. Transitman.
	August 30: At $7^h 31^m$ a.m., l.m.t., I set off 39°16' on the lat. arc; 9°07'N. on the delx arc, and determine a meridian with the solar at the cor. of secs. 8, 9, 16 and 17
	Thence I run
	S.89°51'E., on a random line, bet. secs. 9 and 16.
40.00	Set temp. ¼ sec. cor.
79.88	Intersect N. and S. line 7 lks. S. of the cor. of secs. 9, 10, 15 and 16.
	Thence
	N.89°54'W., on a true line, bet. secs. 9 and 16
	Over rough mountainous land, draining NW., gradually ascending over NE. slope of ridge, through dense spruce and fir timber, and undergrowth of chaparral& buckbrush.
8.00	Spring branch, 3 lks. wide, 3 ins. deep, course N., good water. Leave heavy spruce and fir timber, and enter scattering spruce and fir, bears NW. and SE
20.29	Enter heavy forest of spruce, pine, and fir timber, bears NW. and SE.
32.68	Base of steep ascent, bears NW. and SE., ascend abruptly over NE. slope.
39.94	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked

S 9
¼
S 16
1913

Chains	
	from which
	A spruce, 5ins. diam., bears N.78°W., 128 lks. dist., marked ¼ S 9 B T
	A spruce, 13 ins. diam., bears S.80½°E., 76 lks. dist., marked ¼ S 16 B T
	Cor. stands on NE. slope of ridge, 110 ft. above sec. cor.
43.69	Top of steep ascent, bears NW. and SE.,75 ft. above ¼ sec. cor. Thence ascend gradually over bench.
49.17	Base of steep ascent, bears NW and SE. Thence ascend abruptly over NE. slope of ridge.
55.00	Top of ascent,125 ft. above base, bears NW. and SE., thence gradually ascend to top of mountain. Leave spruce timber, bears NW. and SE.
79.88	The cor. of secs. 8, 9, 16 and 17.
	August 30: At this cor. I set off 9°02'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°16'
	Land, rough mountainous, draining NE. into a fork of Manti Canyon, having a series of benches and ascents, lying NW. and SE.
	Soil, dry brown loam, mixed with decayed vegetation, on rocky, stony sub-soil, 3 rd. rate.
	Timber, 55 chs. of heavy spruce and fir timber,
	Undergrowth, chaparral and some buckbrush; good grass for grazing.
	Mountainous or heavily timbered land, 79.88 chs.
	N.0°03'W., bet. secs. 8 and 9.
	Over rough mountainous land, draining N. into North Fork of Manti Canyon, descend abruptly over N. slope of mountain, through scattering spruce and fir timber, and chaparral undergrowth.
9.99	Enter dense spruce and pine timber, bears E. and W. Descend more abruptly over steep ledge towards bench.

Chains.	
14.00	Base of steep descent, bears NW. and SE., 100 ft. below top. Thence over level land on bench. Leave spruce and fir timber, bears NW. and SE.
16.08	Leave bench, bears NW. and SE., descend abruptly into Lowry Fork Manti Canyon; enter spruce, fir and pine timber, bears E. and W.
36.00	Enter aspen timber, bears E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked S 8 | S 9 ¼ | 1913 from which An aspen, 12 ins. diam., bears S.83½°W., 12 lks. dist., marked ¼ S 8 B T An aspen, 10 ins. diam., bears S. 63°E., 57 lks. dist., marked ¼ S 9 B T Cor. stands on NW. slope of ridge, 900 ft. below top.
40.50	Bottom of steep descent, bears E. and W., thence over level bench, bears E. and W. Leave dense spruce, fir pine and aspen timber, bears E. and W., and enter scattering aspens.
44.40	Wagon road bears E. and W., from top of divide to Manti.
45.00	Leave bench, bears E. and W., descend abruptly into creek, enter dense aspen, spruce and pine timber, bears NW. and SE.
48.50	Enter exceptionally dense undergrowth of willows on S. side of creek.
49.03	Lowry Fork Creek, 15 lks. wide, 10 to 12 ins. deep, good water, course NW., 200 ft. below ¼ sec. cor. Leave pine spruce and aspen timber. Ascend S. side of ridge, through dense undergrowth of willows and chaparral.
51.89	Top of bench, on spur, projects NW. 5 chs., 50 ft. above creek. Leave heavy undergrowth of willows. Thence ascend gradually.
53.09	Spring branch, 2 lks. wide, 4 ins. deep., course NW., good water.

Subdivision of T. 18 S., R. 4 E.

Chains	
57.37	Top of spur, projects NW. 5 chs., 75 ft. above creek. Descend abruptly into N. Fork Cr.
60.98	North Fork of Manti Cr., 20 lks. wide, 14 ins. deep, course SW. Ascend abruptly over S. slope of ridge. Creek is 75 ft. below spur.
65.03	Enter dense aspen thicket, bears NE. and SW., and exceptionally dense undergrowth of chaparral and service brush.
78.90	Leave dense aspen timber, bears E. and W., ascend more abruptly, through dense chaparral.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 4, 5, 8 and 9, with brass cap marked

T 18 S R 4 E

S 5	S 4
S 8	S 9

1913

dig pits, 18 x 18 x 12 ins. in each sec., 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Note: No suitable trees within limits.

Cor. stands on S. side of ridge, 350 ft. above creek.

Land, rough mountainous, S.57 chs. drains N., and N. 23 chs. drains S. on steep slopes.

Soil, moist black loam mixed with decayed vegetation and small rock, on black clay and rock subsoil, 3rd rate.

Timber, 45 chs. of aspen, spruce, fir and pine, and 13 chs. of dense young aspens on the N. half.

Undergrowth, dense chaparral and willows along the creeks, and dense chaparral on the 80 chs. Good grass for grazing.

Mountainous or heavily timbered land, 80.00 chs.

August 30, 1913.

U. S. Surveyor.

September 2: At 7h30m a.m., l.m.t., I set off 39°16½' on

Subdivision of T. 18 S., R. 4 E.

Chains	
	the lat. arc, 8°01½'N. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 4, 5, 8 and 9.
	Thence I run
	S.89°54'E., on a random line bet. secs. 4 and 9.
40.00	Set temp. ¼ sec. cor.
79.81	Intersect N. and S. line 9 lks. N. of the cor. of secs. 3, 4, 9 and 10.
	Thence
	N.89°50'W., on a true line bet. secs. 4 and 9.
	Over rough mountainous land, draining S. into a fork of North Fork of Manti Cr., descending over SE. side of high ridge, through thin chaparral undergrowth.
1.80	Descend abruptly along S. side of ridge.
5.90	Enter dense spruce and fir timber, bears NE. and SW., through undergrowth of juniper, service brush and buck brush.
15.46	Enter on bench, bears SE. and NW., 6 chs. wide.
15.60	Leave dense spruce and fir timber, bears NW. and SE.
26.00	Leave bench, bears NW. and SE. Descend.
26.32	Gulch, 10 ft. wide, 5 ft. deep, drains SW. 10 ft. below bench, continue desc.
38.90	Enter aspen timber, bears N. and S. Descend more rapidly.
39.90½	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked
	S 4 ¼ S 9 1913
	from which
	An aspen 7 ins. diam. bears N.10½°E., 62 lks. dist., marked ¼ S 4 B T.
	An aspen 8 ins. diam. bears S.42°W., 41 lks. dist., marked ¼ S 9 B T.
	Cor. stands on S. side of the W. end of ridge, 400 ft. below sec. cor.
42.64	Spring branch, 2 lks. wide, 1 in. deep, course SW., good water.
42.97	Spring branch, 3 lks. wide, 1 in. deep, course SW., good

Subdivision of T.18 S., R.4. E.

Chains	
	water. Descend rapidly into canyon bottom.
54.51	Creek, 12 lks. wide, 6 ins. deep, course N.85°W., good water, swift current on rocky bottom; in canyon bears NW. and SE. The junction of two streams with this creek bears NW., 2 chs. dist; both with rapid current, having waterfalls. Ascend rapidly towards spur. Creek is 250 ft below the ¼ sec. cor.
56.00	Top of spur, projects N. 2 chs., 50 ft. above creek.
	September 2: At this sta. I set off 7°57'N. on the decl. arc, and, at 12^h00^m l.m.t., observe the sun on the meridian. The resulting lat. is 39°16'
	Descend rapidly toward same creek.
61.00	Creek, 20 lks. wide, 7 ins. deep, course S.75°W., good water, swift current on rocky bottom. Ascend abruptly.
63.74	Leave aspen timber, bears N. and S., ascend less rapidly.
65.33	Spring branch, 10 lks. wide, 4 ins. deep, course S.15°E., good water, thence along S. slope of ridge.
65.50	Enter aspen timber, bears N. and S.
71.38	Spring branch, 3 lks. wide, 1 in. deep., course S.5°W., good water
73.11	Spring branch, 12 lks. wide, 4 ins. deep, course south, good water. Ascend rapidly.
76.72	Leave aspen timber, bears N. and S.
79.81	The cor. of secs. 4, 5, 8 and 9.

Land, rough mountainous, with a general drainage SW. into NorthFork of Manti Canyon.

Soil, black loam, mixed with decayed vegetation and gravel, on a rocky sub-soil, 3rd. rate.

Timber, 10 chs. of dense spruce and fir on the E. half of the mile, and 36 chs. of aspen timber on the W. half.

Undergrowth, chaparral and buck-brush, juniper and service brush; good grass for grazing purposes.

Mountainous or heavily timbered land, 79.81 chains.

September 2, 1913.

Thos. C. Cathcart

U. S. Transitman.

Subdivision of T.18 S., R.4 E.,

Chains.	
	September 2: For solar observations see line bet. secan3 and 4.
	N.0°03'W., on a random line bet. secs. 4 and 5.
40.00	Set temp. ¼ sec. cor.
83.66	Intersect the N. bdy. of Tp. 28 lks. E. of the cor. of secs. 4, 5, 32 and 33, heretofore described.
	Thence,
	S.0°15'E., on a true line, bet, secs. 4 and 5.
	Over mountainous land, draining NW. on the divide bet. Manti and Willow Canyons gradually ascending through undergrowth of chaparral and buck-brush.
43.63	Set an iron post, 3 ft. long, 1 in. diam., 24 ins in the ground, for ¼ sec. cor., with brass cap marked S 5 | S 4 ¼ 1913
	dig pits, 18 x 18 x 12 ins. E. and W. of post, 3 ft. dist and raise a mound of earth, 4 ft. base, 2 ft. high, west of cor.
	Thence over nearly level land.
51.75	Top of descent, bears E. and W. Thence descend abruptly over S. slope of divide, over series of small benches.
67.00	Spring branch, 5 lks. wide, 3 ins. deep, course southeast; good water. Thence along branch.
69.89	Enter aspen timber, bears E. and W. Leave branch
74.00	Leave aspen timber, bears E. and W. Descend more abruptly.
74.87	Spring branch, 4 lks. wide, 3 ins. deep, course SE., good water. Thence through exceptionally heavy undergrowth of service brush, and buckbrush., descending rapidly.
83.66	The cor. of secs. 4, 5, 8 and 9.
	Land, first 52 chs., open rolling mountain top, draining NW., last 31 chs. rough mountainous, draining S. and SE on a steep slope.
	Soil, first 52 chs., mixture of crumbled shale and gray loam, on rock. sub-soil., 4 th. rate., last 31 chs., stony, mixed with decayed vegetation and loam, on rock subsoil,

Subdivision of T. 18 S., R. 4 E.

Chains

3rd rate.

Timber, 4 chs. of aspen in the S. half.

Undergrowth, chaparral, buck brush and service brush.

Good grass for grazing purposes.

Mountainous land, 31 chs.

September 2, 1913.

Robert E. Clark.
U. S. Transitman.

August 18, 1913: At 9h 04m a.m., l.m.t., I set off 39°12' on the lat.arc, 13°11'N. on the decl.arc, and determine a meridian with the solar at the cor. of secs. 5, 6, 31 and 32, on the S.bdy. of the Tp., heretofore described.

Thence I run

N.0°03'W., bet. secs. 31 and 32.

Over flat mountain top on the divide bet. North and South Forks of Six Mile Canyon, bear E. and W., descending gradually into North Fork of Manti Canyon, through aspen, balsam fir and spruce timber, and chaparral undergrowth.

28.42 Enter exceptionally heavy forest of aspen fir and spruce, bears E. and W.

32.42 Descend more abruptly into North Fork Canyon.

34.10 Head of small hollow 150 ft. below top of divide, course NW., ascend gradually.

36.00 Top of small spur, projects NW. 40 ft. above hollow. Desc.

38.10 Spring branch, 8 lks. wide, 6 ins. deep, course NW., good water, 40 ft. below

40.00 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked

S 31 | S 32
¼
1913

from which

An aspen 8 ins. diam. bears east 22 lks. dist., marked ¼ S 32 B T.

A spruce, 10 ins. diam. bears S.74½°W., 23 lks. dist., marked ¼ S 31 B T.

41.00 Leave aspen, spruce and fir timber, bears E. and W., enter flat, bears NE. and SW.

Subdivision of T. 18 S., R. 4 E.

Chains	
43.00	Leave flat, bears E. and W., enter spruce, fir and aspen timber, bears E. and W. Descend more gradually.
49.84	Descend abruptly into canyon.
59.00	Road, bears NW. and SE.
60.10	North Fork of Six Mile Creek, 25 lks. wide, 12 ins. deep, course W., good water, 660 ft. below top of divide. Leave timber, bears E. and W. Ascend rapidly.
65.00	Spring branch, 5 lks. wide, 4 ins. deep, course SW., good water. Ascend more rapidly towards divide bet. Six Mile and Manti canyons.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in mound of stone for cor. of secs. 29, 30, 31 and 32, with brass cap marked

T 18 S | R 4 E
S 30 | S 29
S 31 | S 32
1913

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

On account of surface rock am unable to set post 24 ins. in the ground.

Cor. stands on S. slope of ridge, 500 ft. above creek.

Land, rough mountainous, draining NW. into N. Fork of Six Mile Cr.

Soil, decayed vegetation mixed with rock and loam, 3rd rate, on a rock subsoil.

Timber, 58 chs. of aspen spruce and balsam fir.

Undergrowth, chaparral, good grass for grazing.

Mountainous or heavily timbered land, 80.00 chs.

East, on a random line bet. secs. 29 and 32.

40.00	Set temp. ¼ sec. cor.
79.97	Intersect N. and S. line 9 lks. S. of the cor. of secs. 28, 29, 32 and 33. Thence

S.89°56'W., on a true line bet. secs. 29 and 32.

Over rough mountainous land, draining NW. into Manti Canyon, ascending gradually toward divide bet. Six Mile and Manti canyons, through chaparral undergrowth.

13.60	Top of divide, bears NW. and SE., 100 ft. above sec. cor.

Subdivision of T. 18 S., R. 4 E.

Chains	
	Thence descend gradually over top of divide, along N. side of top.
32.83	Top of steep descent, bears NW. and SE. Thence descend into Six Mile Cr.
39.98½	Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground, and 12 ins. in a mound of stone and earth, 4 ft. base, 1 ft. high, for ¼ sec. cor., with brass cap marked S 29 ¼ S 32 1913 raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Cor stands 200 ft. below top of divide. Underlying rock prevents setting post more than 14 ins. in the ground.
	Descend abruptly.
61.48	Descend more gradually.
66.58	Descend abruptly into hollow. Enter scattering aspen and spruce timber, bears E. and W. and juniper undergrowth.
68.47	Spring branch, 4 lks. wide, 3 ins. deep, course S., good water, in head of hollow 150 ft. below cor. Ascend.
69.47	Small spur, projects S. 5 chs. 30 ft. above branch. Desc., leave timber, bears N. and S.
71.00	Spring branch 4 lks. wide, 3 ins. deep, course S., good water. Thence continue gradual descent.
79.97	The cor. of secs. 29, 30, 31 and 32.
	Cor. stands 400 ft. below ¼ sec. cor.
	August 18: At this cor. I set off 13°08'N. on the decl. arc, and observe the sun on the meridian at 12h 04m l.m.t.; the resulting lat. is 39°13'.
	Land, rough mountainous. W. 47 chs. drains into Six Mile Cr., and the E. 33 chs. drains NW. into Manti Cr.
	Soil, rocky and stony, on rock subsoil; 4th rate.
	Timber, about 3 chs. of scattering aspen and spruce.
	Undergrowth, chaparral and scattering juniper on the E. 14 chs. Fair grass for grazing.
	Mountainous land, 79.97 chs.

Subdivision of T. 18 S., R. 4 E.

Chains	
	West, on a random line bet. secs. 30 and 31.
40.00	Set temp. ¼ sec. cor.
78.79	Intersect W. bdy. of Tp. 11 lks. N. of the cor. of secs. 25, 30, 31 and 36, heretofore described.
	Thence
	N.89°55'E., on a true line bet. secs. 30 and 31.
	Over rough mountainous land, following along N. side of th North Fork of Six Mile Cr., through dense undergrowth of chaparral and juniper, and spruce and fir timber.
2.51	Ascend abruptly over right bank of stream, thence along N. side of bank.
8.79	North Fork of Six Mile Cr., 30 lks. wide, 12 ins. deep, course S.85°E., good water. Thence along S. side of creek.
14.80	Same creek, 30 lks. wide, 12 ins. deep, course N.85°W.
	Leave heavy undergrowth and spruce and fir timber; ascend abruptly through scattering spruce and fir timber.
25.00	Small spur, projects S., 180 ft. above creek. Desc.
27.00	Wash, 40 lks. wide, 12 ft. deep, drains S. Ascend abruptl towards spur. Wash is 35 ft. below spur.
37.00	Top of spur, projects S. 5 chs., 160 ft. above wash.
	Descend gradually. Leave scattering spruce and fir.
38.00	Spring branch, 8 lks. wide, 5 ins. deep, course south, good water, 40 ft. below spur. Asc.
38.79	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground and 12 ins. in a mound of stone and earth, 4 ft. base, 1 ft. high, for ¼ sec. cor., with brass cap marked S 30 / ¼ / S 31 / 1913
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of c
	Note: On account of underlying rock I am unable to set post more than 12 ins. in the ground. Cor. is 10 ft. above spring branch. Continue abrupt ascent.
50.00	Top of spur 10 ft. above cor. projects S. 5 chs. Thence descend.
53.70	Spring branch, 6 lks. wide, 3 ins. deep, course south,

Chains.

good water. 30 ft. below spur. Asc. abruptly.

55.00 Top of small spur, projects S., 50 ft. above branch, secs.

56.34 Spring branch, 8 lks. wide, 6 ins. deep, course S., good water. 20 ft. below spur. Asc. rapidly.

74.09 Ascend more gradually.

78.79 The cor. of secs 29, 30, 31 and 32.

Cor. stands 550 ft. above ¼ sec. cor.

Land, rough mountainous, draining S. and W. into North Fork of Six Mile Cr. West end of mile is along creek.

Soil, stony gray loam, on rock sub-soil, 3-4th rate.

Timber, 15 chs. of dense spruce and fir, and 22 chs. of scattering spruce and balsam fir on the W half.

Undergrowth, chaparral and juniper. Fair grass for grazing.

Mountainous or heavily timbered land, 78.79 chs.

August 18. 1913.

August 19: At 8^h04^ma.m., l.m.t., I set off 39°13' on the lat. arc, 12°52'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 29, 30, 31 and 32.

Thence I run

N.0°03'W., bet. secs. 29 and 30.

Over rough mountainous land, ascending toward high ridge through undergrowth of chaparral.

10.97 Ascend abruptly to top.

26.81 Top of high divide bet. Manti and Six Mile Canyons, bears N.80°W. and S.80°E., 300 ft. above sec. cor. Thence over nearly level top.

31.81 Descend abruptly over NE. slope of divide into Manti Canyon.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked

S 30 | S 29
¼
1913

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

Subdivision of T.18 S.,R.4 E.

Chains

Cor. stands on NE. slope of divide, 150 ft. below the top. Descend more gradually.

46.78 Enter balsam fir and spruce timber, bears E. and W. Descend abruptly.

59.58 Enter heavy undergrowth of chaparral, juniper and buckbrush

69.11 Leave spruce and balsam fir timber, bears E and W., and enter flat, bears E. and W. Thence over nearly level land.

75.81 Wagon road, bears N.80°W. and S.80°E., the main road in Manti Canyon, from road on main divide to Manti. Enter aspen and spruce timber, bears E. and W.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 19, 20, 29 and 30, with brass cap marked

T18S	R 4E
S 19	S 20
S 30	S 29

1913

from which

An aspen, 16 ins. diam., bears N.68°E., 35 lks. dist., marked T 18 S R 4 E S 20 B T

An aspen, 11 ins. diam., bears S.22¼°E., 43 lks. dist. marked T 18 S R 4 E S 29 B T

An aspen, 10 ins. diam., bears S.31¾°W., 57 lks. dist. marked T 18 S R 4 E S 30 B T

A spruce, 12 ins. diam., bears N. 38¼°W., 48 lks. dist. marked T 18 S R 4 E S 19 B T

Cor. stands on rolling land 810 ft. below top of divide.

August 19: At this cor. I set off 12°48' N. on the decl. arc, and, at $12^h 04^m$ l.m.t., observe the sun on the meridiam; the resulting lat, is 39°14'.

Land, generally rough mountainous, crossing high divide between Six Mile and Manti Canyons. The S. 26.81 chs. drains SW. into Six Mile creek; and the N. 53.19 chs. drains NE. into N.Fork of Manti creek., with NE. exposure

Soil, dry gray loam, mixed with stone and decayed vegetatio

Chains.	
	on gypsum rock sub-soil; 3-4 th. rate .
	Timber, 13 chs. of balsam fir and spruce, and 4.19 chs. of spruce and aspen, all on the N. half.
	Undergrowth, chaparral on 80 chs., and 20 chs. of dense chaparral, juniper and buck-brush. Good grass for grazing purposes.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 69 chs.
	N.89°56'E., on a random line, bet. secs. 20 and 29.
40.00	Set temp. ¼ sec. cor.
79.93	Intersect N. and S. line, 2 lks. S. of the cor. of secs. 20, 21, 28 and 29.
	Thence
	S.89°55'W., on a true line, bet. secs. 20 and 29.
	Over mountainous, broken land, draining W., descending abruptly through chaparral undergrowth.
2.47	Enter scattering spruce timber, bears N. and S.
9.64	Leave spruce timber, bears N. and S. thence descend more rapidly over broken land.
9.76	Creek, 12 lks. wide, 4 ins. deep, course S.85°W., good water, thence along right bank of stream, through dense chaparral and buck-brush. Creek is 120 ft. below cor.
13.00	Leave creek bank, bears SE., and ascend rapidly.
20.00	Top of spur, projects. S. 3 chs., 140 ft. above creek. Desc.
28.00	Descend more abruptly along N. side of creek.
33.03	Creek, 20 lks. wide, 10 ins. deep, course N.80°W., good water; ascend over left bank, thence ascend gradually. Creek is 220 ft. below spur.
39.96½	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked

S 20
¼
S 29
1913

from which

A spruce, 26 ins. diam., bears N.73¼°E., 138 lks. dist.,

Chains

marked ¼ S 20 B T

A spruce, 10 ins. diam., bears S.13½° E., 43 lks. dist., marked ¼ S 29 B T

Thence ascend gradually along S. side of creek.

44.85 Top of low ridge, bears NW. and SE., thence descend gradual

58.00 Descend abruptly into creek.

66.13 South Fork of Manti Creek, 30 lks. wide, 10 ins. deep., course NW., good water, thence ascend toward small knoll through dense balsam fir, spruce and pine timber, bears N.and SE. Creek is 150 ft. below ridge.

72.45 Top of small knoll, 80 ft. high; descend gradually.

74.13 Spring branch, 6 lks. wide, 4 ins. deep, course NE., good water; ascend towards small spur. Leave timber, bears N. and S. Spring branch is 90 ft. below top of knoll.

75.53 Top of small spur, projects NW. 5 chs., 20 ft. above branch Descend.

79.93 The cor of secs. 19, 20, 29 and 30.

Land, mountainous, draining generally NW. into S. Fork of Manti Canyon.

Soil, black loam, mixed with stone and decayed vegetation, on a stony sub-soil, 3 rd. rate.

Timber, 8 chs. of dense spruce balsam fir and pine, and about 60 chs. of scattering spruce.

Undergrowth, chaparral, buckbrush and some juniper; good grass for grazing.

Mountainous or heavily timbered land, 79.93 chs.

August 19, 191

Howard W. Miller

U. S. Surveyor

August 27: AT 8^H02^M a.m., l.m.t., I set off 39°14' on the lat. arc; 10°10'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

S.89°55'W., on a random line, bet. secs. 19 and 30

40.00 Set temp. ¼ sec. cor.

Subdivision of T.18 S. R.4 E.

Chains	
78.76	Intersect W. bdy. of Tp. 12 lks. S. of the cor, of secs. 19, 24, 25 and 30, heretofore described.
	Thence
	East, on a true line, bet, secs. 19 and 30.
	Over rough mountainous, precipitous land, along brink of steep slide and ledges, bears E. and W., about 1100 ft. above base; known as "The Bluff"; through dense spruce timber and chaparral undergrowth. Ascend along land with precipitous N. slope.
3.12	Top of rocky spur, of mountain, projects 1 ch. N. from cliff. Thence along face of limestone break. 75 ft. above cor.
9.71	Ledgy pinnacle, projects N. from face of break.
	Continue along face of break, at the brink.
18.90	Leave face of break, bears NE and SW., thence over level bench through pine and spruce, and chaparral undergrowth.
20.00	Base of N. end of cliff 250 ft. high. bears N. and S.
	Thence over foot of cliff. along base.
22.50	Leave base of cliff, bears S. Thence ascend abruptly over broken ledges. and benches.
35.58	Leave spruce timber, bears N. and S.
35.68	Top of mountain, bears N. and S. Descend abruptly over E. slope, through chaparral undergrowth. Top is 325 ft. above the Bdy. cor.
38.76	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{S\ 19\ \frac{1}{4}}{S\ 30}$ 1913
	raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N of cor.
	Cor. stands on E. side of top of mountain, 30 ft. below top.
	Descend rapidly onto bench.
45.02	Bottom of steep descent, bears N. and S., thence over level bench.
49.85	Leave bench, bears N. and S., thence desc. very abruptly into S. Fork Canyon.

Subdivision of T.18 S.,R.4 E.

Chains	
65.00	Base of mountain, bears N. and S. 1050 ft, below top., thence desc. gradually.
65.15	Enter dense aspen and spruce timber, bears N. and S., leave heavy undergrowth of chaparral.
78.16	Wagon road, bears N. and S., the main road in Manti Canyon, from top of main divide to Manti.
78.76	The cor. of secs. 19, 20, 29 and 30.
	Cor. stands 1100 ft. below top of mountain.
	August 27: At this cor. I set off 10°06' N. on the decl. arc, and at 12h02m l.m.t., observe the sun on the meridian, the resulting lat. is 39°14'.
	Land, very rough and mountainous, the E.36 chs. drains E, with E. exposure with steep slope; the W. 43chs. drains N, with N. exposure; line follows along the brink of sheer limestone breaks and ledges about 1000 ft. high,
	Soil, on E.57 chs., brown loam mixed with rock and small gravel, on rocky subsoil, 3rd. rate., on the W. 22 chs. soil is rocky in places, with stretches of bare outcrops of limestone on solid rock sub-soil,4th rate.
	Timber, 28 chains of spruce, with some aspen on the E. end of the mile.
	Undergrowth, chaparral and buckbrush; good grass on the E. half for grazing.
	Mountainous or heavily timbered land, 78.76 chs.
	August 27,1913.
	August 28: At 8h01m a.m., l.m.t., I set off 39°14' on the lat. arc; 9°49' 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.0°03'W., bet. secs. 19 and 20
	Over rolling land in bottom of Manti Canyon, draining N, through dense aspen and spruce timber, desc. gradually. chaparral undergrowth.

Subdivision of T. 18 S., R. 4 E.

Chains	
2.30	Wagon road, bears NE., main road in Manti Canyon, from top of main divide to Manti.
7.90	Same road, bears E. and W.
17.41	South Fork Manti Creek, course NW., 20 lks. wide, 4 ins. deep, good water, rocky bottom. Asc. abruptly, and leave aspen and spruce timber, bears NW. and SE.; thence through dense chaparral and buck brush undergrowth. Creek is 80 ft. below the cor.
22.12	Spring branch, 3 lks. wide, 1 in. deep, course W., good water.
25.90	Spring branch, 4 lks. wide, 2 ins. deep, course W., good water.
27.90	Spring branch, 3 lks. wide, 1 in. deep, course W., good water.
34.23	Top of spur, projects 5 chs. W., 400 ft. above S. Fork Cr. Desc. rapidly.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked S 19 ¼ | S 20 1913 raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor. Cor. stands on W. side-hill of spur, 80 ft. below top.
42.69	Stream, 5 lks. wide, 2 ins. deep, course W., good water.
47.59	Enter dense aspen timber, bears E. and W.
56.90	Desc. more gradually.
62.18	Logging trail, bears E. and W.
66.08	Wagon road, bears E. and W., joins main road in Manti Canyon. Desc. gradually to creek.
67.90	N. branch of South Fork Manti Creek, 20 lks. wide, 6 ins. deep, course W., good water, swift current on rocky bottom, in ravine 60 lks. wide, 20 ft. deep, 150 ft. below ¼ sec. cor.
68.05	Bridge, constructed of aspen and spruce poles, 10 ft. wide, 60 ft. long, bears E. 1 chain.
69.90	Wagon road bears NW. same road.
69.98	Asc. abruptly onto spur. Enter scattering spruce E. and W.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the

Chains

ground, for cor. of secs. 17, 18, 19 and 20, with brass cap marked

T 18 S	R 4 E
S 18	S 17
S 19	S 20

1913

from which

A spruce 32 ins. dia. bears N.24½°E., 36 lks. dist., marked T 18 S R 4 E S 17 B T.

An aspen 8 ins. dia. bears S.43¾°E., 26 lks. dist., marked T 18 S R 4 E S 20 B T.

A spruce 12 ins. diam. bears S.5½°W., 69 lks. dist., marked T 18 S R 4 E S 19 B T.

A spruce 30 ins. dia. bears N.64¾°W., 87 lks. dist., marked T 18 S R 4 E S 18 B T.

Cor. stands on SW. slope of spur, 80 ft. above creek.

August 28: Sky is overcast at noon, and obs. for lat. is impossible. Storm of rain at 2 p.m. prevents further field work this day.

Land, rolling mountainous, draining generally west into Manti Cr.

Soil, black and gray moist loam, mixed with some gravel and decayed vegetation, on a stony subsoil, 3rd rate.

Timber, 17.41 chs. of dense spruce and aspen on the S. half, and 32.50 chs. of dense aspen thicket with scattering spruce on the N. half.

Undergrowth, dense chaparral and buck brush on 80 chs. Good grass for grazing purposes.

Mountainous or heavily timbered land, or land covered with dense undergrowth, 80 chs.

August 28, 1913.

August 29: At 7h 31m a.m., l.m.t., I set off 39°15' on the lat. arc; 9°28'N. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 17, 18, 19 and 20.

Thence I run

Subdivision of T.18 S.,R.4 E.

Chains	
	N.89°55'E., on a random line, bet. secs. 17 and 20
40.00	Set temp/ ¼ sec. cor.
79.74	Intersect N. and S. line 4 lks. S. of the cor. of secs. 16 17, 20 and 21.
	Thence
	S.89°53'W., on a true line, bet. secs. 17 and 20,
	Over rough mountainous land, ascending from gulch onto N. slope of ridge, bears E. and W., through undergrowth of chaparral, juniper and sunberry.
7.27	Top of abrupt ascent, bears E. and W., thence over rolling mountain top, asc. gradually.
11.77	Top of ridge, bears N.85°E. and S.85°W., 150 ft. above the sec. cor. Thence desc. gradually over rolling land.
30.34	Top of ledge, bears NE. and SW., thence desc. over steep face.
37.00	Base of ledge, bears NW. and S., 90 ft. below top. Thence desc. gradually.
37.34	Enter dense spruce and aspen timber, bears NW. and SE.
39.87	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked

S 17
¼
S 20
1913

from which

A spruce, 13 ins. dia., bears N.74½°E., 27½ lks. dist., marked ¼ S 17 BT

A spruce, 15 ins. dia., bears S.47°W., 12 lks. dist., marked ¼ S 20 BT

Cor. stands 50 ft. below base of ledge. Thence over rolling broken land, through dense undergrowth of juniper and sun-berry.

August 29: At this ¼ sec. cor. I set off 9°23'N. on the decl. arc, and at 12^h01^m l.m.t., observe the sun on the meridian; the resulting lat. is 39°15'

53.80 Top of steep desc., bears N. and S., thence desc. abruptly over N. end of ridge.

Chains	
56.07	Leave spruce and aspen timber, bears NW. and SE.
63.48	Enter dense spruce and aspen timber, bears N. and S.
75.00	Desc. more gradually.
79.74	The cor. of secs. 17 18, 19 and 20.
	Cor. stands 800 ft. below top of mountain,
	Land, W.52 chs. rough mountainous, draining S. and W., with W. exposure; E.27 chs. rolling mountainous, draining NE., with N. exposure.
	Soil, East 52 chs., black loam, mixed with decayed vegetation, on rocky subsoil, ; on W. 27 chs., rocky and stony on rock subsoil, 3-4th. rate.
	Timber, 35 chs. of dense spruce and aspen.
	Undergrowth, chaparral, juniper and sunberry; good grass for grazing purposes.
	Mountainous or heavily timbered land, 52 chs.
	West, on a random line, bet. secs. 18 and 19
40.00	Set temp. ¼ sec. cor.
	August 29, 1913
	August 30: At 7^h31^m a.m., l.mt., I set off 39°15'N. on the lat. arc; 9°07'N. on the decl. arc., and determine a meridian with the solar at the temp. ¼ sec. cor. of secs. 18 and 19.
	Thence I continue
	West, bet. secs. 18 and 19
78.80	Intersect W.bdy. of Tp. 7 lks. N. of the cor. of secs. 13, 18, 19 and 24, heretofore described.
	Thence
	N.89°57'E. on a true line, bet. secs. 18 and 19.
	Over rolling mountainous land, asc. gradually through dense aspen and spruce timber, and chaparral undergrowth.
14.72	Wagon road bears NW. and SE., joins main road.
18.38	Top of low ridge, bears N. and S., 70 ft. above the bdy. cor thence desc. rapidly into creek.
22.25	South Fork of Manti Cr., 20 lks. wide, 6 ins. deep, course

Subdivision of T. 18 S., R. 4 E.

Chains	
	NW., good water. Thence asc. rapidly over right bank. Creek is 70 ft. below ridge.
38.80	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked S 18 ¼ S 19 1913 from which An aspen 8 ins. dia. bears N.21¾°W., 48 lks. dist., marked ¼ S 18 B T. An aspen 7 ins. diam. bears S.34¾°E., 23 lks. dist., marked ¼ S 19 B T.
40.23	Leave dense aspen and spruce timber, bears N. and S.
49.40	Enter dense aspen timber, bears N. and S.
49.47	Wagon road, bears NW. and SE., joins main road in canyon ¾ mile SE.
50.00	Top of asc. brs. N. and S., 75 ft. above creek. Desc.
54.49	Dim road, bears NE. and SW. Thence desc. gradually.
60.51	Spring branch, 2 lks. wide, 2 ins. deep, course SW., good water, 50 ft. below top of asc. Asc. gradually.
71.32	Spring branch, 3 lks. wide, 3 ins. deep, course SW., good water. Asc. more rapidly.
77.40	Rail fence, bears N. and S.
78.80	The cor. of secs. 17, 18, 19 and 20.
	August 30: At this cor. I set off 9°02'N. on the decl. arc, and at 12h 01m l.m.t., observe the sun on the meridian; the resulting lat. is 39°15'.
	Land, rolling mountainous; E. 56 chs. drains SW., and the W. 21 chs. drains NE. into South Fork Cr.
	Soil, moist black loam mixed with decayed vegetation and some gravel, on a rocky subsoil, 2nd and 3rd rate.
	Timber, 70 chains of dense aspen and spruce.
	Undergrowth, chaparral; good grass for grazing
	Mountainous or heavily timbered land, 70 chs.

N.0°03'W., bet. secs. 17 and 18.

Over rolling mountainous land, draining SW., through dense

Chains	
	aspen and spruce timber, and chaparral undergrowth. Asc. gradually.
4.20	Stream 3 lks. wide, 2 ins. deep, course SW.; good water.
4.25	Rail fence, bears NE. and SW.
6.23	Spring branch, 4 lks. wide, 2 ins. deep, course west; good water. Ascend more rapidly.
7.48	Top of spur, projects W. 5 chs., 75 ft. above cor. Desc.
9.48	Spring branch, 4 lks. wide, 2 ins. deep, course SW.; good water, 20 ft. below spur. Thence over rolling land.
11.08	Stream, 5 lks. wide, 3 ins. deep, course SW., good water.
25.02	Ascend abruptly onto spur.
31.52	Top of spur, projects W. 10 chs., 100 ft. above base. Desc. rapidly over N. slope of spur. Leave timber, E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked.

S 18 | S 17
¼
1913

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

Cor. stands on N. slope of spur, 65 ft. below top.

Cease work.

August 30, 1913.

September 4: At the ¼ sec. cor. I set off 39°15' on the lat. arc, 7°16'N. on the decl. arc, and at 8h 59m a.m., l.m.t., determine a meridian with the solar.

Thence I run

N.0°03'W.

41.10	Enter aspen timber, bears E. and W.
43.10	Leave aspen timber, bears E. and W.
46.50	Enter aspen and spruce timber, bears E. and W. Desc. rapidly.
58.91	Wagon road, bears E. and W. Main road to lumber camps.
59.09	Spring branch, 4 lks. wide, 2 ins. deep, course N.5°E.; good water.
66.93	Spring branch, 8 lks. wide, 4 ins. deep, course NW.; good water.

Subdivision of T.19 S., R. 4 E.

Chains

70.00 September 4: At this sta., I set off 7°13' N. on the decl. arc, and at 11^h59^m l.m.t., observe the sun on the meridian; the resulting lat. is 39°16'.

Continue rapid descent.

75.26 Middle Fork Cr., 20 lks. wide, 4 ins deep, course NW., good water, 500 ft. below ¼ sec. cor. Fork in Cr. bears N.15°W., 50 lks. dist. Asc. rapidly towards spur.

78.95 Top of spur, projects W., 4 chs. 80 ft. above creek. Desc.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 7, 8, 17 and 18, with brass cap marked

T18S	R 4E
S 7	S 8
S 18	S 17
1913	

from which

A spruce, 30 ins. dia., bears N.56°E., 53 lks. dist., marked T 18 S R 4 E S 8 B T

A spruce, 13 ins. dia., bears S.41½°E., 95 lks. dist., marked T 18 S R 4 E S 17 B T

A spruce, 24 ins. dia., bears S.40½°W., 64 lks. dist., marked T 18 S R 4 E S 18 B T

A spruce, 8 ins. dia., bears N.38¾°W., 52 lks. dist., marked T 18 S R 4 E S 7 B T

Cor. stands on NW. slope of spur, 30 ft. below top.

Land, rough mountainous, with gereral drainage west.

Soil, moist black loam, mixed with some gravel and decayed vegetation, on stony subsoil, 3 rd. rate.

Timber, 68 chs. of dense aspen and spruce.

Undergrowth, chaparral; good grass for grazing

Mountainous or heavily timbered land, 80 chs.

September 4, 1913.

September 5: At 7^h59^m a.m., l.m.t., I set off 39°15½' on the lat. arc, 6°55'N. on the decl. arc, and determine a meridiam with the solar at the cor. of secs. 7, 8, 17

Chains	
	and 18.
	Thence I run
	N.89°53'E., on a random line, bet. secs. 8 and 17.
40.00	Set temp. ¼ sec. cor.
79.82	Intersect N. and S. line, 18 lks. N. of the cor. of secs. 8, 9, 16 and 17.
	Thence
	N.89°59'W., on a true line, bet. secs. 8 and 17
	Over rough mountainous land, draining W., descending rapidly over W. side of ridge, through scattering spruce and chaparral undergrowth.
15.50	Leave scattering spruce timber, bears N. and S.
23.00	Enter scattering spruce and aspen timber, bears N. and S.
36.14	Base of steep desc. bears N. and S., thence desc. gradually through dense willow undergrowth. and haw-berry. base is 240 ft. below the cor.
39.91	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor, with brass cap marked

$$\frac{S\ \frac{1}{4}\ 8}{S\ 17}$$

1913

from which

An aspen 16 ins. dia., bears N.25°W., 96 lks. dist., marked ¼ S 8 B T

An aspen, 12 ins. dia., bears S.2½°E., 86 lks. dist., marked ¼ S 17 B T

Cor. stands on flat, moist ground, in dense aspen, willow and haw-berry thicket.

Thence over rolling land, gradually desc. through aspens.

September 5: At this ¼ sec. cor I set off 6°50½' N. on the decl. arc, and at 11^h59^m l.m.t., observe the sun on the meridian; the resulting lat. is 39°15'.

58.71	Ravine, 30 lks. wide, 15 ft. deep, drains SW.
74.00	Desc. more rapidly, through dense aspen and scattering spruce timber.
79.82	The cor. of secs. 7, 8, 17 and 18.

Subdivision of T. 18 S., R. 4 E.

Chains

Land, E. 36 chs., rough mountainous, with steep W. slope; W. 43 chs., rolling mountainous, draining W.

Soil, E. 36 chs., dry brown and gray loam, mixed with gravel, on rock subsoil, 3rd rate; W. 43 chs., moist brown and black loam, mixed with decayed vegetation, on a stony subsoil, 2nd and 3rd rate.

Timber, 73 chs. of aspen and spruce timber, the aspen dense.

Undergrowth, chaparral, on whole mile, and dense willows and haw berry on 8 chs. near ¼ sec. cor. Good grass for grazing.

Mountainous or heavily timbered land, 79.82 chs.

September 5, 1913.

September 6: At 7h 58m a.m., l.m.t., I set off 39°15' on the lat. arc; 6°32½'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

S.89°57'W., on a random line bet. secs. 7 and 18.

40.00 Set temp. ¼ sec. cor.

Storm of rain at noon makes observation for lat. impossible and prevents further work this day.

September 6, 1913.

September 8: At 7h 58m a.m., l.m.t., I set off 39°15' on the lat. arc, 5°48'N. on the decl. arc, and determine a meridian with the solar at this ¼ sec. cor.

Thence I run

S.89°57'W., on a random line. bet. secs. 7 and 18

78.78 Intersect the W. bdy. of Tp. 9 lks. S. of the cor. of secs. 7, 12, 13 and 18, heretofore described.

Thence

S.89°59'E., on a true line bet. secs. 7 and 18.

Over rolling land, desc. gradually through dense spruce timber and dense undergrowth of chaparral willows. birch, service berry and juniper.

5.34 Wagon road, bears NW. and SE., joins main road in Manti

Subdivision of T. 18 S., R. 4 E.

Chains	
	Canyon. Desc. more rapidly.
7.34	Spring branch, 3 lks. wide, 2 ins. deep, course N., good water 80 ft. below cor. Thence asc. rapidly.
23.06	Asc. abruptly over series of small ledges, bears N. and S. Leave dense undergrowth.
29.00	Top of ledges, bears N. and S., thence desc. toward gulch. Top is 150 ft. above spring branch.
31.04	Gulch, 150 lks. wide, 10 ft. deep, drains N. Thence asc. rapidly through dense buck brush and chaparral.
31.86	Top of spur, projects NW. 5 chs. Thence desc. into gulch.
32.87	Gulch, 2 chs. wide, 25 ft. deep, drains N. Asc. gradually over E. side, thence desc.
38.78	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked S 7 ¼ S 18 1913 from which A spruce 6 ins. diam. bears N.18°W., 18 lks. dist., marked ¼ S 7 B T. An aspen 8 ins. diam. bears S.23½°E., 20 lks. dist., marked ¼ S 18 B T. Cor. stands on W. side of spur, 50 ft. above gulch. September 6: Sky is obscured at noon and observation for lat. is impossible. Continue gradual desc. over rolling land, through aspen and spruce timber.
55.00	Enter oak brush, with spruce and aspen timber.
70.00	Leave oak brush, bears N. and S., continue through aspen and spruce timber.
75.67	Creek, a branch of North Fork Manti Cr., 20 lks. wide, 6 in deep, course N.75°W.; good water. Thence ascend gradually. Creek is 200 ft. below ¼ sec. cor.
78.78	The cor. of secs. 7, 8, 17 and 18, 35 ft. above creek. Land, rolling mountainous, E. 47 chs. drains E. and N.; W. 32 chs. drains W. and N.

Subdivision of T. 18 S., R. 4 E.

Chains	
	Soil, gray-brown sandy loam, stony, on a rocky subsoil; 3rd rate.
	Timber, dense aspen and spruce on 80 chs.
	Undergrowth, chaparral, willows on the mile, with about 20 chs. of dense buck brush, juniper, service berry and birch. Excellent grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense underbrush, 78.78 chs.
	September 8, 1913.
	September 9: At 7h 27m a.m., l.m.t., I set off 39°15' on the lat. arc; 5°26'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
	N.0°03'W., bet. secs. 7 and 8.
	Over rolling mountainous land, draining W., gradually asc. toward spur, through dense aspen and spruce timber, and chaparral undergrowth and willows.
.92	Spring branch, 2 lks. wide, 1 in. deep, course NW.; good water. Asc. more rapidly.
10.74	Top of spur, projects W. 10 chs., 350 ft. above creek. Desc. gradually.
25.88	Desc. abruptly towards Manti Cr.
28.57	Spring branch, 5 lks. wide, 3 ins. deep, course NW.; good water; junction with North Fork Manti Cr. bears NW. 10 chs. 220 ft. below spur. Thence over rolling land.
35.07	North Fork Manti Creek, 20 lks. wide, 12 ins. deep, course S.85°W.; good water. Thence commence gradual ascent toward high mountain ridge.
39.02	Wagon road, bears E. and W., from road on main divide to Manti. Main road in canyon.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked
	S 7 | S 8 ¼ 1913

Chains	
	from which
	A spruce 10 ins. dia. bears S.56½°E., 80 lks. dist., marked ¼ S 8 B T.
	A spruce 12 ins. diam. bears S.71¼°W., 38 lks. dist., marked ¼ S 7 B T.
	Cor. stands on N. side of creek, 80 ft. above creek, 5 ft. above road.
	September 9: At this ¼ sec. cor. I set off 5°21'N. on the decl. arc, and at 11h 57m l.m.t., observe the sun on the meridian; the resulting lat. is 39°16'.
	Asc. more rapidly, toward the White Ledge.
44.00	Leave aspen and spruce timber, bears E. and W., thence asc. through willow and chaparral undergrowth, over very rough, broken land, having deep crevasses bearing E. and W., and covered with huge broken boulders.
64.24	Base of the White Ledge, bears NE. and SW.; leave all undergrowth and timber and ascend bare precipitous face of ledge, of sandstone formation.
71.50	Top of pinnacle or spur of ledge, projects SE., 200 ft. above base. Thence along east face of an angle in ledge, bears N. and S., sloping 50°.
79.00	Cataract, 4 lks. wide, 2 ins. deep, course SE., good water, fed by springs in face of ledge. Cataract is in angle formed by junction of ledge, face bears N. and S., and another face bears E. and W. Thence ascend precipitously over face, bears E. and W.
80.00	Point for cor. of secs. 5, 6, 7 and 8 falls on nearly inaccessible face of ledge. Set a temp. stone to mark Cor. No cor. set.
	True cor. point is 1080 ft. above Manti Cr.
	Land, S. 64.24 chs., rolling mountainous, draining into North Fork Manti Cr. On the N. 15.76 chs., extremely rough and mountainous, on 40° to 50° slopes, facing S. and E.
	Soil, on S. 44 chs., brown-black loam, moist, mixed with decayed vegetation and gravel, on rocky subsoil, 2nd and 3rd rate; from 44 to 64.24 chs. from the south, soil i

Subdivision Of T.18 S., R.4 E.

Chains

rocky, containing large boulders, with little loam, on rock sub-soil,; no soil on N. 15.76 chs., surface of ledge is covered with loose disintegrated sand stone about 4 ins. deep, unstable and treacherous, on solid sandstone

Timber, 44 chs. of aspen and spruce on S. part of mile; no timber on N. 36 chs.

Undergrowth, chaparral, buckbrush and willow on S. 44 chs., good grass for grazing; no vegetation on N. 36 chs.

Mountainous or heavily timbered land, 80.00 chs.

September 9. 1913.

September 10, 1913: At 7^h57^m a.m., l.m.t. I set off 39°16' on the lat. arc; 5°2½' N. on the decl. arc, and determine a meridian with the solar at the true cor. point of secs. 5, 6, 7, and 8,

Thence I run

S.89°59'E., on a random line, bet. secs. 5 and 8.

40.00 Set temp. ¼ sec. cor.

79.85 Intersect N. and S. line 14.11lks S. of the cor. of secs. 4, 5, 8 and 9.

Thence

S.89°55'W., on a true line, bet. secs. 5 and 8

Over rough mountainous land, asc. rapidly through aspen thicket, and chaparral undergrowth.

8.68 Leave aspen thicket, bears N. and S,

10.28 Top of high spur, projects S. 10 chs., 90 ft. above sec. cor. Desc. abruptly through scant chaparral undergrowth.

19.65 Creek, 10 lks. wide, 4 ins. deep, course SE., good water, in bottom of deep branch-canyon, 500ft. below spur. Ascend abruptly toward another spur of ridge.

26.29 Top of high spur, projects S. 10 chs. from White Ledge. 600 ft. above creek. Desc. abruptly into deep ravine.

34.75 Bottom of ravine, drains S, covered with willows and buck-brush. 350 ft. below spur. Asc. rapidly

38.00 Enter scattering spruce timber, bears N. and S.

39.92½ Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the

Chains.

ground, for ¼ sec. cor., with brass cap marked

S 5
¼
S 8
1913

from which

A spruce, 6 ins. dia., bears N.20°W., 24 lks. dist., marked ¼S 5 B T

A spruce, 18 ins. dia., bears S.75¼°W., 31 lks. dist., marked ¼ S 8 B T.

Cor. stands on E. slope of a spur, 60 ft. below top.

Sept. 10: At this ¼ sec. cor., I set off 4°58' N. on the decl. arc, and at apparent noon observe the sun on the meridian; the resulting lat. is 39°16'.

41.85 Top of small spur, projects S. 10 chs., thence descend into gulch. Leave spruce timber, bears N. and S.

43.40 Gulch, 3 chs. wide, drains S., 30 ft. below the spur Thence commence abrupt asc. over face of White Ledge, bears NE. and SW.

53.00 Enter clump of aspen timber, bears N. and S. Descend.

60.60 Leave aspen timber, bears N. and S.

61.00 Ravine, 8 chs. wide, 50 ft. deep, drains S. Ascend abruptly over bare face of ledge, leave all undergrowth, bears N. and S.

71.30 Top of spur projecting S. from ledge, 5 chs., 100 ft. above ravine. Thence desc. rapidly along ledge.

79.85 The true cor. point for cor. of secs. 5, 6, 7, and 8,

Land very rough and mountainous, with S. exposure; line follows along face of the White Ledge, which bears generally N15°E., and S.15°W.

Soil, on E. 45 chs., rocky and stony on rock sub-soil, on W.34 chs., bare slide rock, 4 ins. deep, on solid rock sub-soil; 4th. rate.

Undergrowth, scattered willows, chaparral and buckbrush on E. 35 chs. Poor grass for grazing.

Timber, 8 chs. of aspen thicket on E. end of line, and 10 chs. of scattered aspen and spruce.

Subdivision Of T.18 S., R.4 E.

Chains	
	Mountainous land, or land heavily timbered, 79.85 chs. September 10, 1913.
	September 11: At 7^h57^m a.m., l.m.t., I set off 39°16' on the lat. arc; 4°39½' N. on the decl. arc, and determine a meridian with the solar at the true cor. point of secs. 5, 6, 7 and 8.
	Thence I run
	N.89°59'W., on a random line, bet. secs. 6 and 7.
40,00	Set temp. ¼ sec. cor.
78.80	Intersect W. bdy. of Tp. 21 lks. S. of the cor. of secs. 1, 6, 7 and 12. heretofore described.
	Thence
	S.89°50'E.,on a true line, bet. secs. 6 and 7.
	Over gently rolling land, draining W., asc. very gradually through slight chaparral and sage brush undergrowth.
.60	Enter clump of large aspen timber, bears N. and S.
1.70	Leave aspen timber, bears N. and S. Thense ascend gradually through sage-brush.
14.25	Enter heavy aspen timber, bears N. and S,
24.24	Leave aspen timber, bears N. and S. Thence desc. gradually through dense undergrowth of sage-brush.
36.41	Enter dense aspen thicket, bears N. and S., Thence over flat moist land and dense willow undergrowth.
38.80	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked

S 6
¼
S 7
1913

from which

An aspen 8 ins. dia., bears N.75°W., 8 lks. dist., marked ¼ S 6 B T

An aspen, 8 ins. diam., bears S.70°E., 11 lks. dist., marked ¼ S 7 B T

39.14	Asc. rapidly onto ridge.
44.44	Leave aspen timber, bears N. and S.

Subdivision of T.18 S., R.4 E.

Chains.	
48.69	Leave dense willow undergrowth, bears N. and S.
	September 11: At this sta. I set off 4°35' N. on the decl. arc. and, at 11^h57^m l.m.t., observe the sun on the meridian; the resulting lat. is 39°16'.
	Asc. more abruptly through dense buck-brush.
58.20	Top of ascent., bears NE. and SW., 500 ft. above ¼ sec. cor. Thence descend oprecipitously over face of ledge, bears NE. and SW. over slide rock loose stratified sand- stone. 530 ft. above true cor. point.
78.80	The true cor. point of secs. 5, 6, 7, and 8
	Land, W. 39 chs., flat and rolling, draining W., from 39 to58 chs., mountainous, sloping sharply to the W., on the E 20 chs. extremely rough, with precipitous SE. face of ledge.
	Soil, on W. 58 chs., brown loam, mixed with decayed vegetation, on stony sub soil, 3 rd. rate. E. 20 chs. is covered with loose, unstable slide-rock composed of disintegrated sand stone., 4 ins. deep., on solid rock sub-soil.
	Timber, 19 chs. of aspen on the W. half.
	Undergrowth, chaparral, willows and dense buck-brush on the W 58 chs., no undergrowth on E. 20 chs. Good grass for grazing on W 58 Chs.
	Mountainous or heavily timbered land, or land covered with heavy undergrowth, 54. 80 chs.

	From the true cor. point of secs. 5, 6, 7 and 8 I run
	N. 0°03'W., on a random line, bet. secs 5 and 6
20.00	Cease work
	September 11, 1913.
	September 19: At 7^h54^m am., l.m.t., I set off 39°16½' on the lat. arc; 1°35' N. on the decl. arc., and determine a meridian with the solar at this sta.

Subdivision of T.18 S., R.4 E.

Chains	
	Thence I continue
	N.0°03'W., on a random line.
40.00	Set. temp. ¼ sec. cor.
83.81	Intersect N. bdy. of Tp. 37 lks. E. of the cor. of secs. 5, 6, 31 and 32 heretofore described.
	Thence
	S.0°19'E., on a true line, bet, secs. 5 and 6.
	Over rough mountainous , rocky land, descending abruptly over bare sand-stone ledge, bears E. and W.
1.40	Spring branch, 5 lks. wide, 2 ins. deep, course W.
1.90	Spring branch, 2 lks. wide, 2 ins. deep., course. W , good water., in gulch 20 lks. wide, 10 ft. deep Asc. abruptly.
5.50	Top of ascent, bears E.and W., thence along side of ridge, sloping W., through spruce timber, bears E. and W.
12.00	Desc. abruptly into gulch, bears E. and W., leave spruce timber, bears E and W.
13.73	Gulch, 2 chs. wide, 30 ft. deep, drains W., asc. abruptly over S. side. toward high spur.
21.42	Top of high spur, projects W. 5 chs., 690 ft. above base. Desc. rapidly through dense willow undergrowth, into branch of Willow Cr. Canyon.
27.97	Bottom of desc. 600 ft. below top, gulch, drains NW. Enter dense aspen timber, bears E. and W., thence over rolling canyon bottom.
35.40	Willow Creek, 6 lks. wide, 2 ins. deep, course NW., in gulley 30 lks. wide, 20 ft. deep. Thence asc. gradually, through scattering aspens. bear NW. and SE.
39.00	Leave scattering aspen timber, bears E. and W.
43.81	Set an iron post, 3 ft. long, 1 in. diam., 16 in. in the ground and 8 ins. in mound of stone and earth, 4 ft. base 8 ins. high, for ¼ sec. cor., with brass cap marked

S 6 | S 5
¼
1913.

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

Note.- On account of underlying rock, I am unable to

Chains

set post more than 16 ins. in the ground.

Cor. stands on N, slope of high ridge, 50 ft. above the creek.

September 19: At this $\frac{1}{4}$ sec. cor. I set off 1°30½' N. on the decl. arc, and at 11^h54^m l;m.t., observe the sun on the meridian; the resulting lat. is 39°17'.

Ascend more rapidly through dense chaparral, willow and buck-brush undergrowth.

70.51 Top of high mountain ridge, bears E. and S.W., 1000 ft. above Willow Cr. Leave dense undergrowth, thence over rolling top

73.51 Brink of perpendicular cliff, bears E. and W., 1640 ft. above base of ledge at Manti Cr.

74.00 Bottom of cliff, bears E. and W., 120 ft. below top. Cliff is outcrop of stratified sandstone, rapidly disintegrating. Thence over level land on bench, bears E. and W., 4 ch. wide, covered with grass and willow undergrowth, and aspen and spruce timber.

77.21 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for witness cor . to the cor. of secs. 5, 6, 7 and 8, with brass cap marked

T18S	R 4E
S 6 W C	S 5
S 7	S 8

from which

An aspen, 12 ins. diam., bears N.31½°E., 40 lks, dist, marked W C T 18 S R 4 E S 5 B T

An aspen, 4 ins. diam., bears S. 72°E., 46 lks. dist, marked W C T 18 S R 4 E S 5 B T

A spruce, 6 ins. dia., bears S68°W.,13 lks. dist., marked W C T 18 S R 4 E S 6 B T

A spruce, 8 ins. dia., bears N.74½°W., 106 lks. dist, marked W C T 18 S R 4 E S 6 B T

77.42 Leave bench and all vegetation, bears E. and W., and desc. precipitously over bare face of White ledge, slopes S.

Chains

covered with 4-6 ins. slide rock, unstable.

83.81 The true cor. point ofrsecs. 5 6, 7 and 8.

Land, very rough and mountainous, slopes with N. and S. exposure, general drainage W. The S. 10 chs. is over face of White Ledge, a bare sandstone slide, rapidly crumbling away.

Soil, except in Bottom of Willow Cr. canyon, rocky, bare crumbled rock, on solid rock base., 4th. rate. In Willow cr. canyon and side slopes, loam mixed with gravel on stony subsoil, 3 rd. rate.

Timber, 4 chs. aspen in Willow canyon., 7 chs. of spruce on the N. half, and 3 chs. of aspen and spruce timber on the bench at Witness Cor.

Undergrowth, dense chaparral, willow and buckbrush on the side slopes of Willow canyon, and on the bench. Scant chaparral on rest of line. Generally poor grass for grazing

September 19, 1913.

Thos. C. Rathbone

U. S. Transitman.

GENERAL DESCRIPTION
of
T.18 S., R.4 E.

The Tp. is generally rugged and mountainous, located on one of the main ridges of the Wasatch Range. The main divide between San Pete and Castle Valleys traverses the Tp. diagonally from Sec. 2 to Sec. 33, varying in elevation from 10,000 to 11,000 ft., being the water shed from which the run-off drains west through Manti and Six-Mile Canyons into San Pete Valley; and East into Castle Valley through Big Bear and Cove Creeks.

The divide is a long, narrow, flat-topped ridge, bare of timber and with scant vegetation, varying in width from 5 to 30 chs., From this ridge several long, flat-topped spurs

projecting NW.and SE., 2 to 3 miles in length, forming the divides bet. the heads of the forks of Six-Mile and Manti Canyons on the West, and Cove and Big- Bear on the east.

In the S. central portion of the TP. is a topographic feature known as the Cove, formed by the nearly semi-circul shape of the main divide with one of the spurs projecting east.

On secs. 15 and 22 are two natural basins, having no apparant outlet; the larger contains about 70 acras, and the smaller about 40 acres. In the bottom of each is a small lake, fed by melting snow and rainfall. The lakes appear to be permanent.

Sandstone conglomerate with some gypsum is the general gelogical formation of the country, lying in nearly horizontal strata, with few unconformaties. In several localities portions of the high ridges have been sheared off, leaving bare, steep walls of slide and ledge rock exposed. The largest slide, on secs. 5, 6, 7 and 8, measures over 1600 ft. from top to bottom. Disintegration is rapidly in progress, and large masses are continually breaking away. The ledge on the south end of the mile bet. secs. 34 and 35 is composed of stratified sandstone and gypsum, and selenite crystals and fibrous gypsum were found.

No indication of minerals to warrant any of the land being set aside.

The Tp. is well watered, as much moisture is intersepted by the high tops at all times of the year. I estimate the annual precipitation to be from 30 to 35 inches. There are numerous springs all over each side of the divide, having pure, cold water, forming the head-waters of the many ramifications of the main canyons. On the western side of The Cove, near the top of the divide, are several thick snow banks, which appear to be perpetual. There is much opportunity for the development of water power for the operation of saw-mills and small plants. The creeks have considerable drops for short lengths.

General Description of T.18S., R.4 E.

In the NW.¼ of sec. 10 is a samll resevoir containing about 3 acres (August) with a wooden head-gate at the N. end. Resevoir is used to regulate flow of water in Manti Creek. Value of improvement, $50.

The Tp. is well timbered with spruce, balsam fir, pine and aspen. The greater portion of the timber is on the north slopes of the ridges. The aspen timber is being taken out for use as props in coal mines. The undergrowth is generally profuse- chaparral, buck-brush, service berry, juniper, and willow on moist areas. The country is well adapted for grazing purposes, having abundant grass and moisture. The timber and undergrowth in the canyons serve to retain the moisture, but the run-off coefficient on the bare tops of the ridges is high.

The roads are poor and very steep, except the road on the main divide. The canyon roads are continually being washed out every spring by floods.

Prevailing winds are from the SW.

The Tp. is too steep and stony, and the altitude too great to permit practicable cultivation, although moisture is abundant.

There are no settlers on this Tp.

Howard W. Miller
U. S. Surveyor

Thos. C. Cathcart
U. S. Transitman.

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Page

BOOK A-410

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 .....

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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.

TRANSITMAN.

FINAL OATH OF UNITED STATES ~~SURVEYOR.~~

I, Robert F. Clark, U. S. ~~Surveyor~~ Transitman, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the 29 day of July, 1913, 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 the sub-divisional lines of Township 18 South, Range 4 East

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 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 Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Robert E. Clark
~~U. S. Surveyor.~~
U. S. Transitman.

Subscribed by said Robert F. Clark, and sworn to before me this 18th day of October, 1915

Joseph L. Atkinson
Clerk of the District Court
Montrose County, Colorado

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 been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys 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.

4—680

BOOK A-410

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 "H" T.18 S., R.3 E.

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.

.....

4—681 *U. S. Surveyor.*

5 74

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 Howard W.Miller, U.S.Surveyor, see book "H" T. 18 S., R.3 E.

For final oath of Thos.C.Rathbone, U.S.Transitman, see book "E" T.16 S., R.3 E. ..... 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

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APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Oct. 28, 191 5.

The foregoing field notes of the survey of the subdivisional lines of Township No.18 South, Range No.4 East of the Salt Lake Base and Meridian, Utah,

executed by Howard W.Miller, Thos.C.Rathbone, and Robert E.Clark under ~~his~~ special instructions dated July 19, 1913., having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

M. C. Thorsen

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