Volume

# #

R0432

4—679

BOOK A-432 B.

FIELD NOTES

OF THE SURVEY OF THE

FRACTIONAL NORTH BOUNDARY TOWNSHIP NO. 8 NORTH, RANGE NO. 6 EAST

AND

FRACTIONAL SUBDIVISION

O F

TOWNSHIP NO. 8 NORTH, RANGE NO. 5 EAST

Of the SALT LAKE BASE AND *Meridian,*

In the State of U T A H

EXECUTED BY

JOHN W. DOUGALL AND THOMAS C. RATHBONE

In the capacity of U. S. Surveyor, and U.S Transitman, under instructions dated July 8, 1914, *issued by the United States Surveyor General to govern surveys included in* by Supervisor of Surveys for District of Utah July 11, 1914, affirmed *Group No.* 33, *which were approved by the Commissioner of the General Land Office,* July 24, 1914; supplemental special instructions issued Aug. 13, 1917 by U.S. Surveyor General, approved by the Commissioner of the General Land Office Aug. 28, 1917. Assignment instructions and supplemental assignment instructions issued by the assistant supervisor of surveys for District of Utah, July 8, 1914 and Oct. 26, 1917, respectively

Survey commenced September 14, 1914

Survey completed October 30, 1917.

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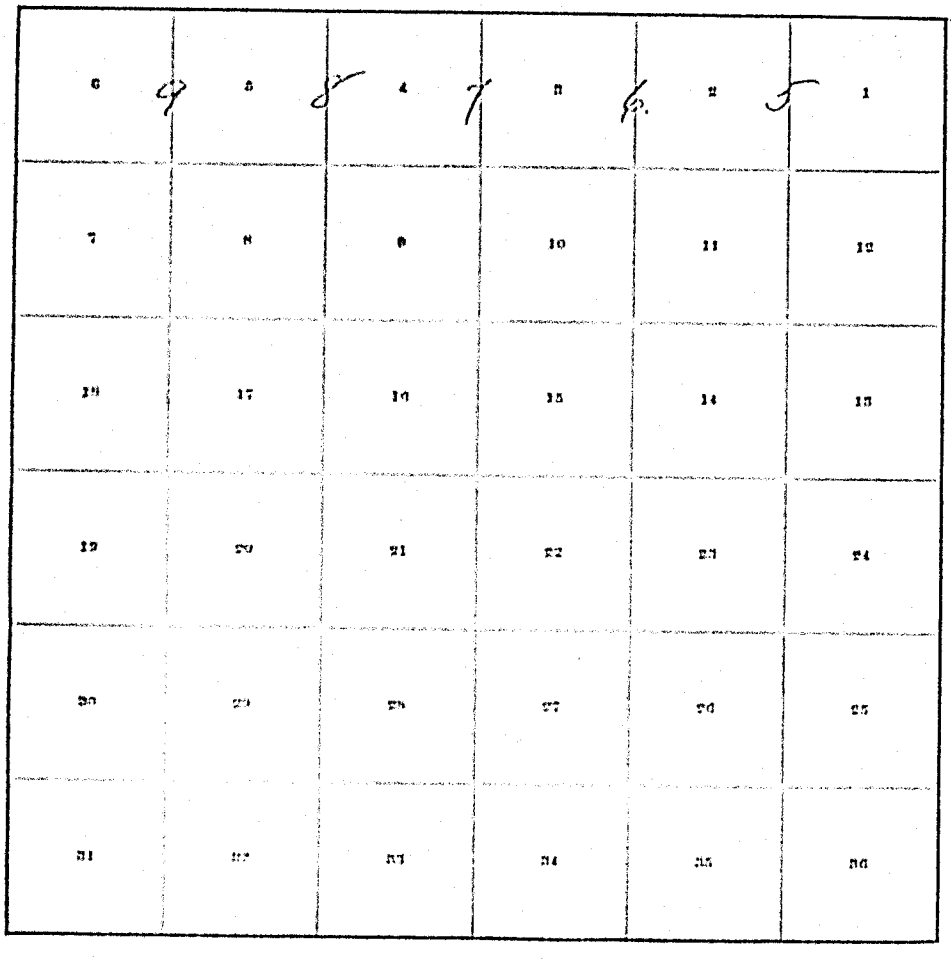


6—4817

Chains.

Survey commenced Sept. 14, 1914, and executed with a Young and Sons light mountain transit No. 8515, fitted with a Smith solar attachment and a Keuffel and Esser light mountain transit No. 20575, fitted with a Smith solar attachment.

We know from recent Polaris observations that the instruments are in adjustment.

Sept. 14, 1914.

Corrective survey commenced October 29, 1917, and executed with a Young and Sons light mountain transit No. 8531, 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 verniers of the latitude and declination arcs.

The instrument was approved for use in this survey by the assistant supervisor of surveys, in assignment instructions dated October 26, 1917.

I examine the adjustments of the transit and find them correct. No test of the solar apparatus was made at this time.

All lines were extended from lines run during the original survey in 1914.

October 30, 1917, in accordance with supplemental special instructions dated August 13, 1917, I begin at the old closing cor. of T.8 N.Rs.5 and 6 E., which was left as a witness point by Messrs. Dougall and Rathbone in 1914, alongside of which I

Set an iron post, 3 ft. long, 3 ins. in dia., 26 ins. in the ground, for the re-established closing cor. of the NW. cor. of T.8 N.R.6 E., with brass cap marked

C C
S 6
T 8 N
R 6 E
1917

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

FRACTIONAL NORTH BOUNDARY T.8 N.R.6 E.

Chains.

I destroy the closing cor. set by Dougall and Rathbone in 1914 on the Second Stand. Par. N., for T.8 N.Rs. 5 and 6 E. Thus the line (6.72 chs.) bet. secs. 1 T.8 N.R.5 E. and sec. 6 T.8 N.R.6 E. is eliminated.

Thence from the re-established NW. cor. of T.8 N.R.6 E., S.89° 52'E. on true line along N. bdy. of T.8 N.R.6 E.

Descend over mountainous land along north side of Woodruff Creek Canyon; through small buck brush.

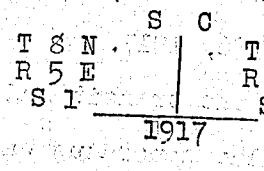
0.50 Small ravine, 30 ft. below cor., drains S.; ascend.

3.75 Point of spur, 60 ft. above ravine, projects S.; descend.

10.90 Mouth of ravine, 260 ft. below point of spur, drains S. Asc.

12.18 On point of spur, 60 ft. above mouth of ravine, projects S.

Intersect the SW. cor. of T.9 N.R.6 E., which is an iron post, 3 ins. dia., 12 ins. above ground, firmly set. I re-mark brass cap for standard cor. of T.9 N.R.6 E. and T.8 N.R.5 E., as follows:



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

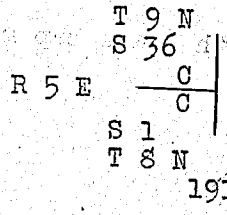
Land, mountainous.

Soil, gravelly with decomposed shale on blue lime shale base, sloping south.

No timber. Undergrowth, small buck brush.

Note:

I re-mark the standard closing cor. of T.8 N.R.6 E. and T.9 N.R.5 E., on the west boundary of T.9 N.R.6 E. for closing cor. of Tps. 8 and 9 N.R.5 E. as follows:



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

October 30, 1917.

FRACTIONAL SUBDIVISION T.8 N.R.5 E.

Chains.

Sept.14, 1914:

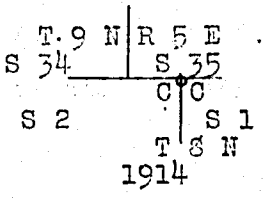
From the old closing cor.of secs.1 and 2, which is a quartzite stone 5 x 10 x 12 ins.above ground, firmly set, marked and witnessed as described by the surveyor general, the marks on which I destroy, leaving the stone in place as a W.P.; thence

N.0° 01'W.bet.secs.1 and 2,

Ascend abruptly over stony mountainous land; through small buck brush.

7.10 Intersect the Second Standard Parallel North 11.57 chs. N.89° 39'E.of the standard cor.of secs.34 and 35, heretofore described.

Set an iron post, 3 ft.long, 2 ins.in dia., 26 ins.in the ground, for the closing cor.of secs.1 and 2, marked on brass cap



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

This corner falls on S.slope 100 ft.above original closing corner.

Land, mountainous.

Soil, gravelly with some stones, underlaid with clay and sandstone.

No timber.

Undergrowth, buck brush.

John W. Dougall
U.S.Surveyor.

September 14, 1914.

FRACTIONAL SUBDIVISION T. 8 N.R.5 E.

Chains.

Sept, 15, 1914: At 8h a.m. apparent time I set off 41° 28' N.on the lat.arc; 3° 14'N.on the decl.arc; and determine a meridian with the solar at the old closing cor. of secs.2 and 3, which is a sandstone 6 x 8 x 12 ins. above ground, firmly set, marked and witnessed as described by the surveyor general. I destroy the marks but leave the stone standing as a W.P.

Thence

N.0° 02'W.bet.secs.2 and 3,

Ascend abruptly over stony mountainous land; through small buck brush.

7.84. Intersect Second Standard Parallel North 10.82 chs.N.89° 40'E.of the standard corner of secs.33 and 34, heretofore described.

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

T 9 N R 5 E
S 33 | S 34
C | C
S 3 | S 2
T 8 N
1914.

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

Corner falls on south slope, 150 ft.above original closing corner.

Land, mountainous.

Soil, sandy and gravelly with small sandstone outcroppings, underlaid with sandstone.

No timber.

Undergrowth, buck brush.

PARTIAL SUBDIVISION T. 8 N., R. 5 E.

Chains.

From the old closing cor. of secs. 3 and 4. which is a sandstone 8 x 10 x 12 ins. above ground firmly set, marked and witnessed as described by the surveyor general.

I destroy the marks but leave the stone standing as a W.P.

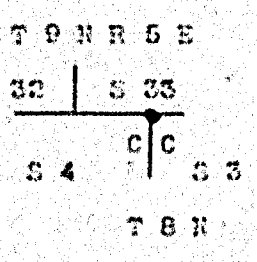
Thence

N.0°02'W., bet. secs., 3 and 4.

Ascend abruptly over mountainous land through sage and serviceberry brush.

8.50 Intersect Second Standard Parallel North 11.35 chs. N.89°55'E., of the standard cor. of secs.32 and 33, heretofore described.

Set an iron post, 3 ft. long, 2 ins. in. dia., 26 ins. in the ground for closing cor. of secs. 3 and 4. marked on brass cap.



1914

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

Corner falls on south slope, 100 ft. above original closing cor.

Land mountainous.

Soil light sandy loam with some gravel and sandstone, underlaid with clay and sandstone.

No timber.

Undergrowth sage and serviceberry brush.

Sept. 15, 1914.: At this cor. at 11h 55m a. m. l. m. t., I set off 3°09'E. on the decl. arc; and observe the sun on the meridian; the resulting lat. is 41°28'.

PARTIAL SUBDIVISION T. 8 N., R. 5 E.

Chains.

From the old closing cor. of secs. 4 and 5, which is a sandstone 6 x 10 x 12 ins. above ground firmly set, marked and witnessed as described by the surveyor general.

I destroy the marks but leave stone standing as a W. P.

Thence

N.0°03'W. bet. secs. 4 and 5.

Ascend gently over mountainous land, through sage brush and grass.

9.04 Intersect Second Standard Parallel North, 12.01 chs. N. 89°39'E. of the standard cor. of secs. 31 and 32, heretofore described.

Set an iron post, 3 ft. long, 2 ins. in. dia., 26 ins. in the ground for closing cor. of secs. 4 and 5, marked on brass cap

T 9 N R 5 E

S 31 S 32

C C

S 5 S 4

T 8 N

1914

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

Corner falls on S. slope, 50 ft. above original closing corner.

Land mountainous.

Poor sandy soil. underlaid with clay and sandstone.

No timber.

Undergrowth sage brush and grass.

From the old closing cor. of secs. 5 and 6, which is a hard sandstone 9 x 10 x 12 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.

PARTIAL SUBDIVISIONS T. 8 N. R. 5 E.

Chains

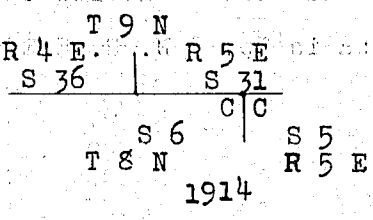
Destroy marks on same but leave standing as W.P.

N.0°04'W. bet. secs. 5 and 6.

Ascend gently over mountainous land.

9.28 Intersect Second Standard Parallel N. 12.11 chs. N.89° 05'E. of the St. cor. of T. 9 N. Rs. 4 and 5 E., heretofore described.

Set an iron post, 3 ft. long, 2 ins. in dia., 26 ins. in the ground for the C.C. of secs. 5 and 6, marked on brass cap



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

Corner falls on slope, 75 ft. above original closing corner.

Land mountainous.

Soil stony.

No timber.

Thos Chatburn
U.S.Transitman.

Sept. 15, 1914.

GENERAL DESCRIPTION

This fractional township of T. 8 N. R. 5 E. lying bet. the N. and S. line of the Second Standard Parallel N. is mountainous.

The soil in general is a light sandy loam with some stones and gravel.

The drainage is to the south into Woodruff Creek.

The only water is in sec. 5, where a small spring branch flows S.

There is a scrubby growth of aspen timber on some of the E. slopes; and there is a good growth of grass.

There are no surface indications of mineral.

GENERAL DESCRIPTION

There are no settlers in this fractional township.

John W. Dougall,
U.S. Surveyor.

Thos. H. Rathbone
U.S. Transitman.

~~Oaths for this fractional township are the same as and are included in Tp. 9 N. R. 5 E.~~

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BOUNDARIES T. 8 N., R.5 E.

Lines Designated	True Bearing	Dist. chs.	Latitudes, N. chs.	Latitudes, S. chs.	Departures. E. chs.	Departures. W. chs.
West Boundary	North	9.25	9.25	.....	.....	.....
Second St.Par. N. North Line	N.89°26'E.	.93	.01	.....	.93	.....
	N.89°36'E.	40.47	.28	.....	40.47	.....
	N.89°05'E.	39.78	.64	.....	39.77	.....
	S.89°57'E.	40.11	.....	.03	40.11	.....
	N.89°39'E.	40.44	.25	.....	40.44	.....
	East	40.35	.....	.....	40.35	.....
	N.89°55'E.	40.55	.06	.....	40.55	.....
	East	40.05	.....	.....	40.05	.....
	N.89°40'E.	79.82	.46	.....	79.82	.....
	N.89°39'E.	40.15	.25	.....	40.15	.....
	N.89°45'E.	40.20	.18	.....	40.20	.....
	S.89°37'E.	24.19	.....	.16	24.19	.....
East Boundary	S. 0°40'W.	6.65	.....	6.65	.....	08
Second St.Par.N. South Line	N.89°52'W.	12.18	03	.....	.....	.12..18
	S.89°39'W.	28.01	.....	.17	.....	.28 .01
	S.89°25'W.	40.02	.....	.41	.....	.40..02
	S.89°16'W.	79.55	.....	1.02	.....	.79..54
	S.89°23'W.	39.93	.....	.43	.....	.39..93
	S.89°32'W.	39.99	.....	.33	.....	.39..99
	S.89°09'W.	39.98	.....	.59	.....	.39..98
	S.89°40'W.	80.01	.....	.47	.....	.80..01
	S.89°25'W.	40.01	.....	.41	.....	.40..01
	S.89°52'W.	40.07	.....	.09	.....	.40..07
	S.89°17'W.	26.91	.....	.34	.....	.26..91
	S.89°50'W.	.60	.....	.....	.....	60
Convergency					.01	
	T o t a l s		11.41	11.10	467.04	467.33
			11.10			467.04
Errors in lat. and dep.			.31			.29

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BOOK A-432

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 list of assistants see book "A" T.9 N.R.5 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.

.....

U. S. Surveyor.

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 8 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 Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of Township No. 8 North, Range No. 5 East

and ..... 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. Transitman.

Subscribed by said Thomas C. Rathbone, and sworn to before me this 1st day of February, 1917.

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.

6—2761

U. S. Surveyor General.

4—GSO

BOOK A-432

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 "A" T.9 N.R.5 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.

.....

6—2761

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 and supplemental special instructions dated Aug. 13, 1917 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 Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of fractional north boundary Township No. 8 North, Range No. 6 East, and fractional subdivision Township No. 8 North, Range No. 5 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.

John W. Dougall
U. S. Surveyor.

Subscribed by said John W. Dougall, and sworn to before me this 19 day of July, 1918.

SEAL

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

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
Salt Lake City, Utah, July 19, 1918.

The foregoing field notes of the survey of fractional north boundary Township No. 8 North, Range No. 6 East and fractional subdivision Township No. 8 North, Range No. 5 East of the Salt Lake Base and Meridian, Utah,

executed by John W. Dougall and Thomas C. Rathbone under his special instructions dated July 8, 1914 and supplemental special instructions dated Aug. 13, 1917, ~~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. O. 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.

5-17-1916

BOOK A-432

G.

FIELD NOTES

OF THE ~~SURVEY OF THE~~

RETRACEMENT AND RESURVEY

OF THE

FRACTIONAL SOUTH AND NORTH BOUNDARIES

AND

RESURVEY AND SURVEY OF FRACTIONAL SUBDIVISION

O F

TOWNSHIP NO. 8 SOUTH, RANGE NO. 7 WEST

Of the SALT LAKE BASE AND *Meridian,*

In the State of U T A H.

EXECUTED BY

HOWARD W. MILLER AND ISAAC HAYES

In the capacity of U. S. Surveyor and U.S.Transitman *under instructions dated* June 25, *1915, issued by the United States Surveyor General to govern surveys included in Group No.* 37, *which were approved by the Commissioner of the General Land Office,* July 21, *1915.* Assignment instructions issued by the Assistant Supervisor of Surveys for the District of Utah, Oct. 5, 1915.

Survey commenced November 8, *1915*

Survey completed November 29, *1915.*

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Examinations Classified

A Plat Notes

B Computations

Comparing

C Plat Notes

BOOK A-432

INDEX DIAGRAM.

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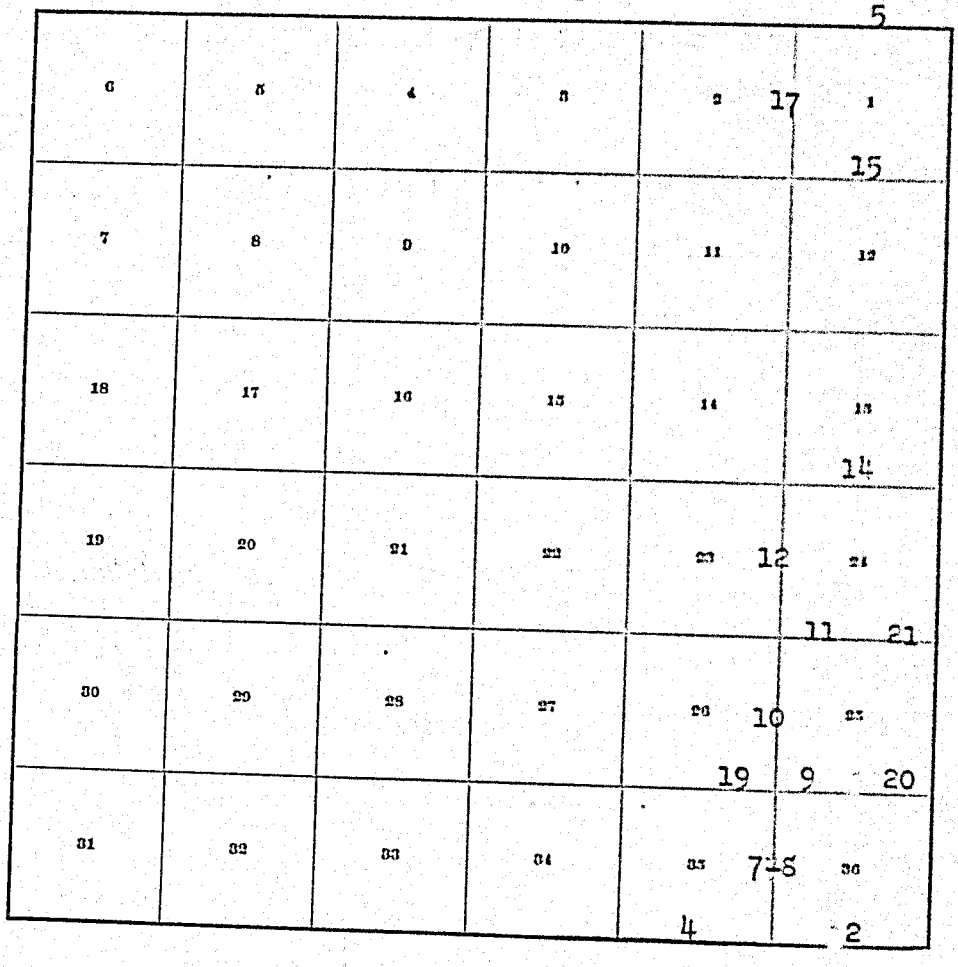

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6—4817

Chains. Survey commenced November 8, 1915, and executed with Young and Sons light mountain transit No. 8297, with 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 verniers of the latitude and declination arcs.

The instrument was approved for use in this survey by the Assistant Supervisor of Surveys for Utah.

I examine the adjustments of the transit and find no errors. The instrument was tested on a Polaris meridian at my camp, near the cor. of secs. 13, 18, 19, and 24 on the E.bdy. of the Tp., November 25, and found correct. For complete record of this test see subdivision of T.8 S., R.6 W.

Measurements.

A steel tape 5 chains long was used in the field work, together with a clinometer for determining slope angles and the reduced horizontal distances only appear in the field notes.

In the declination arc settings, .85 of the tabulated refraction for conputing declinations is used, due to the altitude of the country.

November 8: For solar observation see line bet. secs. 6 and 31 S.bdy. of T.8 S., R.6 W.

I begin at the cor. of Tps. 8 and 9 S., Rs. 6 and 7 W., heretofore described; approximate latitude 40° 04'N. longitude 112° 34'W.

Retracement and Resurvey S.Bdy. of T.8 S., R.7 W.

Chains.

From Tp. cor., I run

West retracing bet. secs. 1 and 36,

Over mountainous land draining NW.; through scattering scrub pinon and cedar timber and undergrowth of sage, service brush, and grass.

Gradually descend over NW. slope of spur.

7.15 Ravine, 120 ft. below Tp. cor., drains N. Ascend.

11.45 Spur, 70 ft. above ravine, projects N. Descend.

12.65 Leave timber, bears N. and S.

17.35 Ravine, 125 ft. below spur, drains N.20°E. A rocky point of spur bears S. about 1.00 ch. Ascend.

25.75 Top of spur, 170 ft. above ravine, projects N.10° W. Descend.

33.25 Ravine, 160 ft. below spur, drains N.10° W.

Ascend over E. slope 140 ft. to

39.56 Fall 23 lks. S. of the ¼ sec. cor., which is a blue limestone 20 x 14 x 12 ins., lying on the ground, marked ¼ on one face. No accessories to cor.

At exact position of old cor. I reset stone 15 ins. in the ground, marked ¼ on N. face.

The bearing of this half-mile is N.89° 40'W., and the distance 39.56 chs.

At a later date (Nov. 23, 1915), knowing from retracements that this cor. will refer to sec. 1, only, N. bdy. T. 9 S., R.7 W., I re-establish the corner 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., N. bdy. Sec. 1 T.9 S., R.7 W., with brass cap marked

S 1
¼
1915

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

From the ¼ sec. cor. I continue west

Chains.	
	November 8: The sky is overcast at noon, obsns. for lat. are impossible.
1.95	Top of spur, 5 ft. above ¼ sec. cor., projects N.30° W. Descend.
8.95	Ravine, 115 ft. below spur, drains N.10° W. Ascend.
13.50	Top of spur, 65 ft. above ravine, projects N.10° W. Descend.
20.60	Ravine, 160 ft. below spur, drains N.15° W. Ascend.
26.00	Spur, 50 ft. above ravine, projects NW. Gradually descend.
30.00	Enter scrub cedar and pinon timber, bears N. and S.
36.80	Swale, 65 ft. below spur, drains S. Ascend.
40.00	After a long and careful search, I am unable to find any trace of the cor. of secs. 1, 2, 35, and 36.

November 8, 1915.

November 26: From my 40.00 ch. point I run west bet. secs. 2 and 35 and at 75.83 chs. fall 48 lks. N. of the cor. of secs. 2, 3, 34, and 35. The proportion for each ½ mile west of the ¼ sec. cor. on the N. bdy. sec. 1 T. 9 S., R. 7 W. would be 38.61 chs. ~~My 40.00 ch. point for the cor. of secs. 1, 2, 35, and 36 falls 1.00 ch. east of the top of~~ a cedar ridge noted in the old notes as being 1.00 ch. west of the cor. of secs. 1, 2, 35, and 36. The point for the sec. cor. by proportionate measurement would fall 2.39 chs. east of the ridge, I therefore restore cor. at my 40.00 ch. point as follows:

Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 1, 2, 35, and 36, with brass cap marked

T 8 S
S 35 | S 36
R 7 W ——————
S 2 | S 1
T 9 S
1915

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

Trees are within limits in all secs., but none are ~~suitable for bearing trees.~~

For Amd. notes see Book (page 1 See p. 4

Retracement and Resurvey S.Bdy. of T.8 S., R.7 W.,

Chains.	
	Land, mountainous, general N.exposure and drainage.
	Soil, 4th rate; light, dry, brown clay mixed with gravel and rock of limestone and quartz formation on hard, dry clay and rock subsoil.
	Timber, scrub pinon and cedar.
	Undergrowth, sage, service, rabbit brush and grass.
	Considerable grass, good for grazing purposes.
	November 26: The sky is overcast. I determine a meridian with the needle and run approximately West, bet.secs. 2 and 35 from point set 40.00 chs.W.of the ¼ sec.cor. on the N.bdy.of sec.1 T.9 S., R.7 W.
	Over mountainous land through dense scrub pinon and cedar timber and undergrowth of scattering service, sage and rabbit brush. Gradually ascend.
1.00	Top of low ridge bears N.and S. Descend over broken SW. slope.
22.90	Wash, 15 lks.wide, 2 ft.deep, in bottom of draw, 260 ft. below sec.cor., drains NW. Leave cedar and pinon timber, bears NW. and SE. Thence descend gradually along S.side of draw.
40.00	After a long search I am unable to find any trace of the old ¼ sec.cor. The snow at this time is from 4 to 6 ins. deep and it might be possible that the cor.is still in place, I therefore do not restore cor.
50.60	Same wash in same draw, 90 ft.below first crossing of draw, drains SW. Ascend.
58.95	Low point of spur, falls S., 20 ft.above wash. Descend.
62.45	N.edge of same draw, 70 ft.below spur, comes from S.E. and drains SW. Ascend.
64.05	Wood road, bears NE. and SW.
72.60	Spur, 25 ft.above draw, projects S.

Retracement and Resurvey S.Bdy. T.8 S., R.7 W.

Chains.	
	Descend.
75.83	Fall 1.38 chs. N. of the cor. of secs. 2, 3, 34, and 35, which is a flint rock, 18 x 35 x 18 ins. above ground, firmly set and properly marked. No accessories to cor. I erect a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
	Cor. stands on SW. slope 55 ft. below top of spur.
	At 9h 30m apparent time, I set off 40° 04' on the lat. arc; 20° 48'S. on the decl. arc; and determine a meridian with the solar at my point 1.38 chs. N. of the cor. of secs. 2, 3, 34, and 35, and find that my line brought west, bears N. 89° 19' W.
	The bearing of this line is S. 89° 38' W. and the distance is 75.83 chs.
	Land, mountainous, general W. exposure and drainage.
	Soil, 4th rate; gravelly and rocky of limestone formation, mixed with some dry, brown clay, on gravelly and rocky subsoil.
	Timber, scrub cedar and pinon.
	Undergrowth, sage, service, rabbit brush, and grass.
	November 26, 1915.

Retracement and Resurvey N.Bdy. of T.8 S., R.7 W.

	November 29: For solar obsn. see line bet. secs. 1 and 2, subdivision of T.8 S., R.7 W.
	From the cor. of secs. 1, 2, 35, and 36 on the N. bdy. of the Tp. which is a blue limestone 4 x 8 x 8 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general, I run
	East, retracing bet. secs. 1 and 36,
	Over rolling foot hills draining SW., through scattering scrub cedar and pinon timber, and undergrowth of sage and service brush. Gradually ascend.
8.55	Enter dense timber, bears N. and S.

Retracement and Resurvey S.Bdy.of T.8 S., R.7 W.

Chains.	
13.50	Leave dense timber; enter scattering timber, bears N.and S.
17.63	Wood road, bears N.60° E., and S.60° W.
35.29	Junction of washes, 20 lks.wide, 15 ft.deep, from NE. and SE., drains SW.
40.08	Fall 8 lks.N.of the ¼ sec.cor., which is a blue limestone 5 x 10 x 5 ins.above ground, firmly set and marked and witnessed as described by the U.S.Surveyor General.

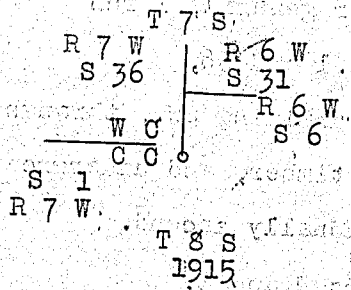
The bearing of this ½ mile is S.89° 53'E. and the distance is 40.08 chs. November 29, 1915.

November 28: At 10h. a.m.apparent time, I set off 40° 09' on the lat.arc; 21° 12'S.on the decl.arc; and determine a meridian with the solar. Thence I run

East from ¼ sec.cor.

Continue over rolling hills draining SW.; through dense timber.

18.05	Leave dense timber, bears N.and S.
36.15	Bottom of wash in gulch, 20 lks.wide, 10 ft.deep, course from the E.to SW.
36.26	Intersect N.and S.line, 1.81 chs.S.of the SW.cor.of T. 7 S., R.6 W., heretofore described, After long search I am unable to find any trace of the closing cor.of Tps.7 and 8 S., R.7 W. Point for cor.falls on S.edge of wash and has been washed away. I re-established cor.55 lks.W.of cor.point on sage ground as follows:
35.71	Set an iron post, 3 ft.long, 3 ins.in dia., 24 ins.in the ground for witness cor.to the closing cor.of Tps. 7 and 8 S., R.7 W., with brass cap marked



1915

Chains.

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

Land, rolling hills, general SW. exposure and drainage.

Soil, 4th rate; gravelly and rocky of limestone and quartz formation and mixed with some light brown clay on hard clay and rock subsoil.

Timber, scrub pinon and cedar.

Undergrowth, sage and service brush.

November 28, 1915.

Retracement and Resurvey of Subdivision of T.8 S.R.6 W.

November 8: For solar obsn. see line bet. secs. 6 and 31 S.bdy. of T.8 S., R.6 W.

From cor. of secs. 1, 2, 35, and 36 on the S.bdy. of the Tp., I run

North, retracing bet. secs. 35 and 36,

40.00 No trace of the ¼ sec. cor. can be found, I therefore continue my line North

120.00 Cease work and set temp. point.

November 8, 1915.

November 22: At 8h a.m. apparent time, I set off 40° 05' on the lat. arc; 19° 56' S. on the decl. arc; and determine a meridian with the solar and find that my line carried north, bears S.0° 47'E. I therefore continue retracing

N.0° 47'W.

158.76 Fall 6.14 chs. W. of the cor. of secs. 23, 24, 25, and 26.

I return and adjust temp. cors. to their proper proportionate meridional positions.

November 22, 1915.

November 26: For solar obsn. see line bet. secs. 2 and 35 S.bdy. of this Tp.

From the ¼ sec. cor. bet. secs. 26 and 35 I run

East

Chains.

80.32 Fall 44 lks.N.of the ¼ sec.cor.bet.secs.25 and 36.

I return and adjust temp.cors.to their proper proportionate latitudinal positions.

~~From proportioned point for cor.secs.25, 26, 35, and 36~~ on latitudinal line the proportioned point on meridional line bears 65 lks.N.and 1.55 chs.W. I restore cor.of secs.25, 26, 35, and 36, 65 lks.N.of proportioned point for cor.of secs.on latitudinal line. For description of cor.see line bet.secs.35 and 36.

The bearing of the line bet.secs.35 and 36 is N.2° 33' E. and the distance is 79.46 chs.

The bearing of the W.½ mile bet.secs.25 and 36 is S. 88° 45'E. and the distance is 40.10 chs.

The bearing of the E.½ mile bet.secs.26 and 35 is N.89° 23'E., and the distance is 40.23 chs.

The bearing of the line bet.secs.25 and 26 is N.0° 19'E. ~~and the distance is 79.34 chs.~~

From the cor.of secs.1, 2, 35, and 36 on the S.bdy.of the Tp., I run

N.2° 33'E.resurveying bet.secs.35 and 36,

Over mountainous land draining NW.; through scrub pinon and cedar timber and undergrowth of sage, rabbit, and service brush.

Gradually ascend over S.E.slope.

2.40 Spur, 15 ft.above sec.cor., projects S.20° W.

Gradually descend.

7.75 Swale, 40 ft.below spur, drains NW. Ascend.

16.45 Spur, 10 ft.above swale, projects NW.

Descend over general N.slope.

26.40 Leave timber, bears E.and W.

39.73 Proportionate measurement, 200 ft,below spur,.

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

Retracement and Resurvey of Subdivision of T.8 S. R.7 W.

Chains.	S $\frac{1}{4}$ 35 | S 36 1915
	raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
45.00	Enter rolling land, bears NE. and SW.
	Continue gradual descent.
79.46	Proportionate measurement.
	Set a limestone 18 x 6 x 6 ins., 12 ins. in the ground for cor. of secs. 25, 26, 35, and 36, marked with 1 notch on E., and 1 notch on S. edge; raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	No iron posts available at this time.
	Cor. stands on E. side of ravine, 105 ft. below ¼ sec. cor.
	Land, S. 45.00 chs. mountainous; N. 34.46 chs. rolling. General exposure and drainage NW.
	Soil, 4th rate; gravelly and rocky of quartz and blue limestone formation and mixed with some dry, brown, sandy clay, on gravel and hard, dry clay subsoil.
	Timber, scrub pinon and cedar on S. 26.40 chs. Some scattering timber on both sides of line on N. 53.16 chs.
	Undergrowth, sage, rabbit and service brush.
	Considerable bunch grass, good for grazing purposes.
	S. 88° 45' E. resurveying bet. secs. 25 and 36,
	Over rolling mountainous land; through very scattering scrub pinon, cedar and mahogany timber and undergrowth of sage, rabbit, and scattering service brush.
	Gradually ascend.
4.50	Low spur, 30 ft. above sec. cor., projects N. 10° E.
	Gradually descend.
11.55	Shallow ravine, 60 ft. below spur, drains N. 10° W.
	Gradually ascend.
21.25	Spur, 75 ft. above ravine, projects N. 10° W. Descend.
30.70	Ravine, 35 ft. below spur, drains N. 20° W. Ascend.

Retracement and Resurvey of Subdivision of T.8 S.R.7 W.

Chains.	
38.40	Spur, 60 ft. above ravine projects NW.
	Gradually descend 10 ft. to
40.10	The ¼ sec. cor. bet. secs. 25 and 36, which is a blue limestone 14 x 10 x 8 ins. above ground, firmly set, marked ¼ on N. face. No accessories to cor.
	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
	S 25 / ¼ / S 36 / 1915
	raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor.
	Land, rolling mountainous, general N. exposure and drainage.
	Soil, 3rd rate; gravelly and stony of quartz formation and mixed with considerable light brown sandy clay on hard, dry clay and gravel subsoil.
	Timber, scrub pinon, cedar and mahogany, very scattering and chiefly found on both sides of line.
	Undergrowth, sage, rabbit and scattering service brush.
	Considerable grass, good for grazing.

	From cor. of secs. 25, 26, 35, and 36, I run
	N. 0° 19' E. resurveying bet. secs. 25 and 26,
	Over rolling mountainous land, draining N., gradually descending through sage, rabbit brush and grass.
16.10	Wash, in bottom of wide draw, 10 lks. wide, 10 ft. deep, drains N. 15° E.
	Thence over rolling land, sloping E.
33.10	Old road, bears N. 10° E., and S. 10° W.
39.69	Proportionate measurement,
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked

chains	
	S $\frac{26}{\frac{1}{4}}$ | S 25 1915
	dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.; raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
63.00	Top of spur, 30 ft. above $\frac{1}{4}$ sec. cor., Projects E.
	Descend.
69.95	Ravine, 60 ft. below spur, drains E. Ascend.
74.60	Spur, 80 ft. above ravine, projects E.
	Descend.
79.46	The cor. of secs. 23,24,25 and 26, which is a blue limestone, 20 x 10 x 8 ins., lying on the ground, marked with 1 notch on one and 2 notches on cornering edge. No accessories to cor.
	At exact position of old cor., I reset stone, 15 ins. in the ground, marked with 1 notch on E. and 2 notches on S. edge; raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Land, rolling mountains drains N. General N. exposure.
	Soil, 3rd. rate; gravelly and brown sandy clay mixed with rock on hard, dry, brown clay and gravel sub-soil.
	Timber, a few scattering scrub cedar and pinon on both sides of line.
	Undergrowth, sage and rabbit brush.
	Considerable grass, good for grazing purposes.
	November 26,1915.

	November 22: For solar obsn. see N.$\frac{1}{2}$ mile of temp. line bet. secs. 25 and 26.
	From cor. of secs. 23,24,25 and 26, I run
	East, bet. secs. 24 and 25
	Over rolling mountainous land through very scattering scrub cedar and pinon timber and undergrowth of sage, rabbit brush and grass.

Retracement and resurvey of subdivision of T.8 S.,R.6 W.

chains	
	Descend over NE. slope of spur.
8.13	Old road, bears N.and S.
11.30	Bottom of ravine and wash, 35 lks. wide, 4 ft. deep, 110 ft. below sec. cor., drains N.
	Gradually ascend over grassy NW. slope.
34.80	Top of spur, 145 ft. above ravine, projects N.
	Descend 40 ft. to
38.25	Gully, drains N.20°W. Ascend 40 ft. to
40.00	On W. slope of high ridge. No trace of the old ¼ sec. cor. can be found.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked
	$\frac{S\ 24}{\frac{1}{4}}$ / S 25 1915
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Land, rolling mountainous on E. and W. slopes of large wide draw; drains N.
	Soil, 3rd. rate; gravelly and light, dry, brown sandy clay mixed with rock of quartz and limestone formation, on gravelly and hard, dry clay sub-soil.
	Timber, very scattering scrub cedar and pinon.
	Undergrowth, sage and rabbit brush.
	Considerable grass, good for grazing purposes.

	From cor. of secs. 23,24,25 and 26, I run
	North, retracing bet. secs. 23 and 24
	Over rolling mountainous land on W. side of large draw draining N., through scattering scrub cedar and pinon timber and undergrowth of sage and rabbit brush and grass.
40.17	Fall 21 lks. W. of the ¼ sec. cor., which is a blue limestone, 16 x 14 x 4 ins., lying on the ground, marked ¼ on one face. No accessories to cor.

chains	
	At exact position of old cor., reset stone 10 ins. in the ground, marked $\frac{1}{4}$ on W. face.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground alongside old cor. for $\frac{1}{4}$ sec. cor., with brass cap marked S $\frac{1}{4}$ 23 | S24 1915
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	No suitable trees within limits.
	The bearing of this $\frac{1}{2}$ mile is N.0°18'E., and the distance is 40.17 chs.
	From point 21 lks. W. of the $\frac{1}{4}$ sec. cor., I continue North
44.42	Ravine, 45 ft. below $\frac{1}{4}$ sec. cor., drains N.80°E.
	Ascend.
50.05	Spur, 50 ft. above ravine, projects E. Descend
64.70	Ravine, 100 ft. below spur, drains N.60°E. Ascend.
71.65	Spur, 60 ft. above ravine, projects N.70°E. Descend.
76.20	Draw, 40 ft. below spur, drains E.
	Ascend 20 ft. to
80.52	Fall 36 lks. W. of the cor. of secs. 13,14,23 and 24, which is a blue limestone, 10 x 12 x 10 ins. above ground, firmly set and properly marked. No accessories to cor.; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	The bearing of this $\frac{1}{2}$ mile is N.0° 13'E., and the distance is 40.35 chs.
	Land, rolling mountainous on W. side of large draw. E. exposure to draw, thence N. exposure. General N. drainage.
	Soil, 4th. rate; Stony and gravelly of blue limestone and quartz formation mixed with light, dry, brown sandy clay, on gravelly and sandy clay sub-soil.

Retracement and resurvey of subdivision of T.8 S.,R.7 W.

chains	
	Timber, scattering scrub cedar and pinon.
	Undergrowth, sage and rabbit brush.
	Considerable grass, good for grazing purposes.

	East, bet. secs. 13 and 24
	Over rolling mountainous land, through scattering scrub cedar and pinon timber and undergrowth of sage, rabbit brush and grass.
	Gradually descend over E. slope into large draw.
10.15	Leave timber, bears N. and S.
10.98	Old road, bears N. and S.
13.45	Bottom of large draw or ravine and wash, 120 lks. wide, 6 ft. deep, 140 ft. below sec. cor., drains N.
	Gradually ascend over general W. slope.
15.82	Old road, bears N. and S.
40.25	Old fence line, bears N.20°W. and S.20°E.
40.59	Fall 1 lk. N. of the ¼ sec. cor., which is a porphyry stone 15 x 12 x 10 ins., lying on the ground, parts of chiseled ¼ visible on stone, other parts broken off. No accessories to cor.
	At exact position of old cor., I reset stone 10 ins. in the ground, marked ¼ on N. face.
	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
	S 13 / ¼ / S 24 / 1915
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Cor. stands on NW. slope, 170 ft. above ravine.
	The bearing of this ½ mile is S.89°59'E., and the distance is 40.59 chs.
	November 22: At this cor. I set off 20° 02'S., on the

chains	
	decl. arc; and at apparent noon, observe the sun on the meridian; the resulting lat. is 40°07'.
	From point 1 lk. N. of the ¼ sec. cor., I continue East.
41.65	Spur, 15 ft. above ¼ sec. cor., projects NW.
	Descend.
49.05	Ravine, 25 ft. below spur, drains NW. Enter scattered scrub cedar timber, bears NW. and SE.
	Ascend abruptly.
68.25	Spur, 260 ft. above ravine, projects NW.
	Descend.
73.45	Ravine, 65 ft. below spur, drains N. Ascend.
78.73	Old fence line, on top of spur, 65 ft. above ravine, bears N. and S.; spur projects N.
	Gradually descend.
80.56	Fall 6 lks. N. of the cor. of secs. 13,18,19 and 24 on the E. bdy. of the Tp. heretofore described.
	The bearing of this ½ mile is S.89°56'E., and the distance is 39.97 chs.
	Land, mountainous, rolling in the W.½; rough in the E. ½. General N. exposure and drainage.
	Soil, 4th. rate; stony, gravelly and rocky of limestone and quartz formation mixed with some dry, sandy brown clay on sub-soil of clay and rock, packed hard and very dry.
	Undergrowth, sage and rabbit brush.
	Timber, scattering patches of pinon and cedar.
	Considerable grass, good for grazing purposes.
	November 22,1915.

	November 28: for solar obsn. see E.½ mile bet. secs. 1 and 36, N. bdy. of this Tp.
	From the cor. of secs. 1 and 12 on the E. bdy. of the Tp., described in Resurvey W.Bdy.T.8 S.R.6 W. I run N.89° 45'W., retracing bet. secs. 1 and 12.

chains	
	Gradually descend over W. slope over rolling foot hills, through very scattering scrub cedar and pinon timber and undergrowth of sage and rabbit brush.
14.50	Wash, at base of hills, drains SW.
	Descend very gradually.
40.62	Fall 11½ lks. N. of the ¼ sec. cor.,which is a blue limestone, 6 x 6x 6 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	The bearing of this ½ mile is N.89°55'W., and the distance is 40.62 chs.
	From ¼ sec. cor., I continue
	N.89°45'W.
69.20	Ravine and base of descent, 330 ft. below sec. cor., drains SW. Ascend 20 ft. to
71.50	Thence over rolling land. Enter dense scrub cedar and pinon timber, bears N. and S.
73.40	Wood road, bears NE. and SW.
81.95	Fall 35 lks. S. of the cor. of secs. 1,2,11 and 12, which is a blue limestone, 6 x 5 x 4 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general
	The bearing of this ½ mile is N.89°15'W., and the distance is 41.33 chs.
	Land, rolling hills, general SW. exposure and drainage.
	Soil, 4th. rate; gravelly and rocky of quartz and limestone formation mixed with light, dry brown sandy clay on gravel and hard, dry clay sub-soil.
	Timber, scrub cedar and pinon
	Undergrowth, sage and rabbit brush.
	Considerable grass, good for grazing purposes.
	November 28,1915.

November 29: At 8h. 10 m.a.m. apparent time, I set off 40°08' on the lat. arc; 21° 18'S., on the decl. arc;

chains

and determine a meridian with the solar at the cor. of secs. 1,2,11 and 12.

Thence I run

N.0°24'W., bet. secs. 1 and 2

40.00 No trace of the old ¼ sec. cor. can be found.

80.62 Fall 54 lks. E. of the cor. of secs. 1,2,35 and 36 on the N. bdy. of the Tp. heretofore described.

The bearing of this line is S.0°47'E. and the distance is 80.62 chs.

Thence from cor. of secs. 1,2,35 and 36, I run

S.0°47'E., on resurvey line bet. secs. 1 and 2

Over rolling foot hills through scattering scrub pinon and cedar timber and undergrowth of sage, rabbit, service brush and grass.

8.82 Wood road, bears N.85°E. and S.85°W.

15.35 Enter dense scrub cedar timber, bears NE. and SW.

29.20 Old stake and rider fence line, bears NE. and SW.

40.59 Proportionate measurement

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

S ¼ 2 | S 1

1915

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

No suitable trees within limits.

80.62 The cor. of secs. 1,2,11 and 12

Land, rolling hills, general SW. exposure and drainage.

Soil, 3rd. rate; sandy and gravelly mixed with quartz rocks on hard, dry sand and gravel sub-soil.

Timber, scrub cedar and pinon.

Undergrowth, sage, rabbit and service brush.

Considerable grass, good for grazing purposes.

November 29,1915

Retracement and resurvey of subdivision of T.8 S.,R.7 W.

chains	
	November 26: For solar observation see line bet. secs. 2 and 35, S. bdy. of this Tp.
	From the cor. of secs. 2,3,34 and 35 on the S. bdy. of the Tp., I run
	North, retracing bet. secs. 34 and 35
	Over mountainous land draining W., through dense scrub cedar and pinon timber and scattering undergrowth of service, sage , rabbit brush and grass.
	Ascend.
3.05	Leave dense timber, bears E. and W.
13.75	Top of spur, 110 ft. above sec. cor., projects SW.
	Descend abruptly
27.50	Ravine, 255 ft. below spur, drains W. Ascend.
38.15	Fall 1.14 chs. W. of the ½ sec. cor., which is a blue limestone, 25 x 17 x 7 ins., lying on the ground, marked ½ on one face. No accessories to cor.
	At exact position of old cor., I reset stone, 18 ins. in the ground, marked ½ on W. face; raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor.
	Cor stands at head of small ravine draining SW., 105 ft. above ravine at 27.50 chs.
	The bearing of this ½ mile is N. 1° 43'E., and the distance is 38.17 chs.
	From point 1.14 chs. W. of the ½ sec. cor., I continue North.
	Ascend abruptly over S. slope.
43.75	Spur, 100 ft. above ½ sec. cor., projects W.
	Descend.
56.05	Ravine, 155 ft. below spur, drains W. Ascend.
71.00	Spur, 170 ft. above ravine, projects S.70°W. Descend.
78.50	Shallow ravine, drains W. Ascend.
79.68	On W. slope of low spur, 60 ft. below spur at 71.00 chs.
	Fall 58 lks. E. of the cor. of secs. 26,27,34 and 35 which is a blue limestone, 14 x 10 x 8 ins. above ground, firmly set and properly marked. No accessories

chains	
	to cor.; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	The bearing of this ½ mile is N. 2° 22' W., and the distance is 41.56 chs.
	Land, mountainous with steep N. and S. slopes of spurs into ravines draining W.
	Soil, 4th. rate; gravelly and rocky of limestone and quartz formation, mixed with light brown clay on hard dry clay and rock sub-soil.
	Timber, scrub cedar and pinon.
	Undergrowth, sage, service and rabbit brush.
	November 26: At this cor. I set off 20° 50'S., on the decl. arc; and at apparent noon, obs. the sun on the meridian; the resulting lat. is 40° 05'.

	From the cor. of secs. 26,27,34 and 35, I run
	N.89° 36'E., retracing bet. secs. 26 and 35
	Over mountainous land draining W., through scattering cedar, pinon and mohogany timber and undergrowth of sage, service and rabbit brush.
	Ascend over W. slope.
17.50	Enter dense timber, bears N. and S.
32.15	Top of ridge, 465 ft. above sec. cor., bears N. and S.
	Leave dense timber, bears N. and S.
	Descend over E. slope of ridge through very scattering timber and undergrowth.
39.54	On E. slope 80 ft. below top of ridge.
	Fall 36 lks. N. of the ¼ sec. cor., which is a blue limestone, 6 x 6 x 12 ins. above ground, firmly set, marked ¼ on N. face. No accessories to cor.; raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	The bearing of this ½ mile is S.89°53'E., and the distance is 39.54 chs.
	From ¼ sec. cor., I run
	N.89° 30'E., with continuous chaining.

Retracement and resurvey of subdivision of T.8 S.,R.7 W.

chains	
72.90	Old road, bears N.10°E. and S.10°W.
74.55	Bottom of ravine or wide draw and wash, 15 lks. wide, 4 ft. deep, 420.ft. below ¼ sec. cor., drains N.10°E. Gradually ascend.
79.77	The cor. of secs. 25,26,35 and 36.
	Land, mountainous, slopes and drains E. and W. from high ridge at 32.15 chs.
	Soil, 4th. rate; stony and gravelly of limestone and quartz formation, mixed with light, dry brown sandy clay on hard, dry clay and rock sub-soil.
	Timber, scrub cedar, pinon and mohogany, very dense in places.
	Undergrowth, scattering sage, service and rabbit brush.
	Considerable grass, good for grazing purposes.
	November 26,1915.

Subdivision of T.8 S.,R.7 W.

November 27: At 8h. a.m. apparent time, I set off 40° 05' on the lat. arc; 20° 57'S., on the decl. arc; and determine a meridian with the solar at the ¼ sec. cor., bet. secs. 25 and 36.

Thence I run

East, on a random line bet. secs. 25 and 36

41.15 Intersect E. bdy. of the Tp. 1.11 chs. S. of the cor. of secs. 30 and 31, W. bdy. T.8 S.,R.6 W. heretofore described. Cor. for secs. 25 and 36 set at this point, for description of same see E. bdy. Tp.

Thence

West, on a true line bet. secs. 25 and 36

Over mountainous land draining W., through very scattering scrub cedar, pinon and mohogany timber and undergrowth of sage, service and rabbit brush.

chains	
	Gradually descend along S. slope of spur.
13.15	Top of rocky point on spur, 65 ft. below sec. cor., projects S.20°W. Descend abruptly.
18.70	Head of ravine, 105 ft. below point, drains SW.
	Gradually ascend.
21.80	Spur, 10 ft. above head of ravine, projects S.75°W.
	Descend.
35.65	Ravine, 235 ft. below spur, drains NW.
	Ascend 30 ft. to
41.15	The ¼ sec. cor.
	Land, rough mountainous, general W. exposure and NW. drainage.
	Soil, 3rd. rate; gravelly and rocky of blue limestone formation mixed with dry sandy clay on gravelly and hard clay sub-soil.
	Timber, scattering scrub cedar, pinon and mohogany.
	Undergrowth, sage, service and rabbit brush.
	Considerable grass, good for grazing purposes.
	---------- ----------
	From the ¼ sec. cor., bet. secs. 24 and 25, I run
	East, on a random line bet. secs. 24 and 25
40.73	Intersect E. bdy. of the Tp. .85 chs. S. of the cor. of secs. 19 and 30, W. bdy. of T.8 S.,R.6 W., heretofore described. Cor. for secs. 24 and 25 set at this point, for description of same, see E.bdy. of this Tp.
	Thence
	West, on a true line bet. secs. 24 and 25.
	Over mountainous land draining NW., through scattering scrub cedar and pinon timber and undergrowth of sage and rabbit brush.
	Ascend.
1.65	Spur, 18 ft. above sec. cor., projects NW.
	Descend.
15.85	Ravine, 255 ft. below spur, drains N. about 10 chs.,

Subdivision of T.8 S.,R.7 W.

chains	
	thence NW.
	Ascend.
20.40	Spur, 95 ft. above ravine, drains N.5°W.
	Descend over W. slope 270 ft. to
40.73	The ½ sec. cor.

Land, mountainous, general W. exposure, drains NW.

Soil, 4th. rate; gravelly and rocky of quartz and blue limestone formation, mixed with shallow brown sandy clay on gravel and rock sub-soil.

Timber, scrub cedar and pinon.

Undergrowth, sage and rabbit brush.

Considerable grass, good for grazing purposes.

November 27, 1915.

General Description

This fractional township lies on the western slope of a range of mountains dividing Rush valley to the east and Skull valley to the west and is rough and mountainous in its entirety. The soil is generally rocky of blue limestone and brown quartz formation and is mixed with considerable light, dry, brown sandy clay. The sub-soil is a sandy clay and rocky, packed hard and very dry.

Cedar and pinon timber is found on the entire township and is of a very inferior growth. With this cedar and pinon some scrub mohogany timber is found. Sage, rabbit and service brush grows abundantly on the Tp. and in places is very dense. The soil supports a growth of rich grasses which are good for grazing.

There are no settlers in the township.

Thereis no water in the township.

I am unable to find any traces of mineral.

General Description.

At the present time the land is used for winter sheep range.

Howard W. Miller
U. S. Surveyor

Volume
#
R0432

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Page

BOOK A-432

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, Issac Hayes, U.S.Transitman Howard W. Miller, U.S. Surveyor & ~~U.S. Surveyor~~, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of retracement and resurvey of south and north boundaries and subdivision and survey of east boundary and subdivision of T.8 S.,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, 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.	
Richard O. Riley	November 8,1915	Nov. 29,1915	chainman
Edward Jones	"	"	"
William Fredrickson	"	"	"
Carl Rasp	"	"	"
Edward A. Laws	"	"	flagman
Leslie A. Young	"	"	"
Harry Fox	"	"	cornerman
James Eggerson	"	"	"

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

Howard W. Miller

U. S. Surveyor.

6—2704

FINAL OATH OF UNITED STATES SURVEYOR.

I, Howard W. Miller, 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 25th. day of June, 1915, 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 and north boundaries and subdivision and survey of the east boundary and subdivision of T.8 S., 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.

Howard W. Miller
U. S. Surveyor.

Subscribed by said Howard W. Miller, and sworn to before me this 29 day of February, 1916

L. O. Thoresen
U. S. Surveyor General

UNITED STATES SURVEYOR GENERAL OFFICIAL SEAL UTAH

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

~~Salt Lake City, Utah, June 27, 1916~~

~~The foregoing field notes of the xxxxxxx retracement and resurvey of south and north boundaries and subdivision and survey of subdivision of T. 8 S. R. 7 W. S.L.B.& M., Utah,~~

~~executed by~~ their Howard W. Miller and Isaac Hayes ~~under his special instructions dated~~ June 25, 1915, ~~having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.~~

L. O. Thoresen
U. S. Surveyor General.

~~I certify that the foregoing transcript of the field notes of the above-described surveys in T. 8 S. R. 7 W. S.L.B.& M. Utah, has been correctly copied from the original notes on file in this office.~~

6—2764

U. S. Surveyor General.

BOOK A-432

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.

Book A-432

FINAL OATH OF UNITED STATES SURVEYOR.

I, Issac Hayes, U.S.Transitman ~~xxxxxxxx~~, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the 25th day of June, 1915, 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 and north boundaries and subdivision and survey of the east boundary and subdivision of T.8 S.,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.

Issac Hayes
U. S. Transitman ~~xxxxxxxxxx~~.

Subscribed by said Issac Hayes, and sworn to before me this 15th day of May, 1916

SEAL

Deputy Clerk of Court

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 27, 1916

The foregoing field notes of the ~~xxxxxx~~ retracement and resurvey of south and north boundaries and subdivision and survey of subdivision of T. 8 S. R. 7 W. S.L.B.& M., Utah,

executed by Howard W. Miller and Isaac Hayes
their
under his special instructions dated June 25, 1915, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the retracements, resurveys, and surveys they describe, are hereby approved.

M. Thoresen
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in T. 8 S., R. 7 W., S.L.B.& M., Utah, has been correctly copied from the original notes on file in this office.

6—2761

U. S. Surveyor General.

1-17-11

BOOK A-432 G1

FIELD NOTES

AMENDED

OF THE SURVEY OF THE

FRACTIONAL SOUTH BOUNDARY AND SUBDIVISION

OF

TOWNSHIP NO. 8 SOUTH, RANGE NO. 7 WEST

Of the SALT LAKE BASE AND *Meridian,*

In the State of U T A H

EXECUTED BY

HOWARD W. MILLER

In the capacity of U. S. Surveyor, under instructions dated June 25, *1915, issued by the United States Surveyor General to govern surveys included in Group No.* 37, *which were approved by the Commissioner of the General Land Office,* July 21, *1915.* Supplemental assignment instructions issued by the Assistant Supervisor of Surveys for the District of Utah August 14, 1917.

Amended *Survey commenced* August 28, *1917*

Amended *Survey completed* August 28, *1917*

BOOK A-432

INDEX DIAGRAM.

Township 8 South, *Range* 7 West

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

3 3 3 1

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T. 7 S., R. 8 W. AMENDED SURVEY SOUTH BOUNDARY T. 8 S., R. 7 W.

Chains.

Survey commenced August 28, 1917, and executed with a Buff and Buff light mountain transit, No. 8964, equipped with Smith solar attachment and full vertical circle. For full description and complete test of instrument see notes of T. 44 S., R. 3 W., recently surveyed by me under Group No. 50.

Note: Solar observations were not taken in any of the work done in 1917; true courses were derived by using my retracement lines of 1915 as a base.

From the ¼ sec. cor. on N. bdy. Sec. 1, T. 9 S., R. 7 W., established by me alongside of old stone cor. for secs. 1 and 36, and described in the original resurvey of this fractional boundary, Book "G" of this group,

S. 89° 46' W., with continuous chaining, from Tp. cor.

41.50 Top of spur, 5 ft. above ¼ sec. cor., projects N. 30° W.

Descend.

48.50 Ravine, 115 ft. below spur, drains N. 10° W.

Ascend.

53.05 Top of spur, 65 ft. above ravine, projects N. 10° W.

Descend.

60.15 Ravine, 160 ft. below spur, drains N. 15° W.

Ascend.

63.58 Spur, 50 ft. above ravine, projects NW. Gradually descend.

69.55 Enter scrub cedar and pinon timber, bears N. and S.

76.35 Swale, 65 ft. below spur, drains S.

Ascend.

78.17 Proportionate measurement,

Reset iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 1, 2, 35, and 36, with brass cap marked

T 8 S
S. 35 | S. 36
R 7 W ——+——
S 2 | S 1
T 9 S

1915

from which

Original notes Book "G" page 3.

AMENDED SURVEY SOUTH BOUNDARY T. 8 S.R.7 W.

Chains.

A cedar, 10 ins.diam., bears N.67¾°E. 69 lks. dist., marked T 8 S R 7 W S 36 B T

A cedar, 12 ins.diam., bears S.73¾°E.48 lks. dist., marked T 9 S R 7 W S 1 B T

A pinon 14 ins.diam., bears S.25¾°W. 60 lks. dist., marked T 9 S.R 7 W S 2 B T

A cedar 12 ins.diam., bears N.30° W. 15 lks. dist., marked T 8 S R 7 W S 35 B T

Land, mountainous, general N.exposure and drainage.

Soil, 4th rate; light, dry, brown clay, mixed with gravel and rock of limestone formation and some quartz, on hard, dry clay and rock subsoil.

Timber, scrub pinon and cedar.

Undergrowth, sage, service-berry, rabbit brush, and grass.

Considerable grass good for grazing purposes.

Note;

Having moved the cor.of secs.1,2,35, and 36 on the S.bdy.of the Tp.1.39 chs.E.and 16 lks.S.; and, as the starting point for the retracement of the lines bet. secs.35 and 36 and 25 and 26 in 1915 is from a point 1.39 chs.west and 16 lks.N.of the true cor.point of secs. 1,2,35, and 36 on the S.bdy.of the Tp., the result of the retracement from the true cor.(using courses and distances of lines as found in 1915 as a base) is found to be 156.92 chs., falling 4.75 chs.west of cor.of secs. 23,24,25, and 26. In the following restoration of the cor.of secs.25,26,35, and 36 the adjustment of all temp. cors.on the meridional line are computed to conform to the meridional distance of 156.92 chs., and a falling of 4.75 chs.west, and the ties of the temp.cors.on the latitudinal lines are made to these corners.

AMENDED SURVEY SOUTH BOUNDARY T.8 S., R.7 W.

I return and adjust the temp. cors. to their proper proportional meridional positions.

From proportioned point for cor. of secs. 25, 26, 35, and 36 on latitudinal line the proportioned point on meridional line bears 57 lks. N. and 86 lks. W. I restore the cor. of secs. 25, 26, 35, and 36, 57 lks. N. of the proportioned point on latitudinal line. For description of cor. see line bet. secs. 35 and 36, Book "G" of this group.

The bearing of the line bet. secs. 35 and 36 is N. 1° 33'E. and the distance is 79.48 chs.

The bearing of the west half-mile bet. secs. 25 and 36 is S. 88° 52'E., and the distance 40.10 chs.

The bearing of the east half-mile bet. secs. 26 and 35 is N. 89° 30'E., and the distance 40.23 chs.

The bearing of the line bet. secs. 25 and 26 is N. 0° 19' E., and the distance 79.46 chs.

Original notes Book "G" page 8

Boundaries of T.8 S., R.7 W.

Latitudes, Departures, and Closing Errors.

Lines Designated	True Bearing	Dist.	Latitudes, Departures.			
			N.	S.	E.	W.
South boundary:		chs.	chs.	chs.	chs.	chs.
S. bdy. sec. 35	N. 89°46'E.	115.83	.47	.....	115.83	.....
S. bdy. sec. 36	S. 89°40'E.	39.56	.....	.23	39.56	.....
S. bdy. sec. 36	S. 88°41'E.	5.12	.....	.12	5.12	
East boundary:	North	239.62	239.62	.....	.....	.....
N. bdy. sec. 24	N. 89°56'W.	39.97	.05			39.97
	N. 89°59'W.	40.59	.01			40.59
W. bdy. sec. 24	S. 0°13'W.	40.35	.....	40.35	.....	.15
	S. 0°18'W.	40.17	.....	40.17	.....	.21
W. bdy. sec. 25	S. 0°19'W.	79.46	.....	79.46	.....	.44
N. bdy. sec. 35	S. 89°30'W.	40.23	.....	.35	.....	40.23
	N. 89°53'W.	39.54	.08	.....	.....	39.54
W. bdy. sec. 35	S. 2°22'E.	41.56		41.53	1.72	.....
	S. 1°43'W.	38.17	.....	38.15	.....	1.14
Convergency						.07
			240.23	240.36	162.23	162.34
				240.23		162.23
Error in lat. and dep.				.13		.11

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Page

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BOOK A-432

~~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

tated opposite our several signatures, in surveying all those parts or portions of .....

.....

.....

.....

.....

.....

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f 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.	
There were no assistants in the amended survey, T. 8 S., R. 7 W.			

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

Howard W. Miller

U. S. Surveyor.

f—2744

FINAL OATH OF UNITED STATES SURVEYOR.

I, Howard W. Miller, 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 25th day of June, 1915, 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 amended survey of part of south boundary and subdivision of Township No. 8 South, Range No. 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.

Howard W. Miller.
U. S. Surveyor.

Subscribed by said Howard W. Miller, and sworn to before me this 1st day of May, 1918.

SEAL

U.S. Surveyor-General
for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
Salt Lake City, Utah, May 7, 1918.

The foregoing field notes of the ~~survey of~~ amended survey of part of the south boundary and subdivision of Township No. 8 South, Range No. 7 West, of the Salt Lake Base and Meridian, Utah,

executed by Howard W. Miller under his special instructions dated June 25, 1915, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the amended 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.

6—2761

U. S. Surveyor General.

U. S. Surveyor General's Office
FEB 5 1917
SALT LAKE CITY, UTAH.

BOOK A-432 K

FIELD NOTES

OF THE ~~SURVEYXOFXTHE~~

RESURVEY OF THE WEST BOUNDARY,

RETRACEMENT AND RESURVEY OF THE THIRD ST. PAR. SOUTH THROUGH R.4 W.,

RETRACEMENT AND SURVEY OF THE EAST BOUNDARY;

RETRACEMENT AND SURVEY OF THE SUBDIVISION,

SURVEY OF THE THIRD St. PAR. SOUTH THROUGH RANGE 4 WEST

AND

SURVEY OF THE SUBDIVISION OF

T. 15 S., R. 4 W.

Of the Salt Lake Base and *Meridian,*

In the State of Utah

EXECUTED BY

Howard W. Miller, U. S. Surveyor

and

Isaac Hayes, U. S. Transitman

~~In the capacity of XXSurveyor~~, *under instructions dated* June 25, *1915,*

ssued by the United States Surveyor General to govern surveys included in

Group No. 37, *which were approved by the Commissioner of the General Land*

Office, July 21, *1915*

Assignment Instructions dated October 5,1915 and May 18,1916.

Survey commenced December 5, *1915*

Survey completed May 27, *1916*

6—151

Boundaries Checked

A Plat E.B. Notes V.I.F. E.B.

B Computations E.B.

Comparing

C Plat V.I.F. Notes H.F.B.

BOOK A-432

INDEX DIAGRAM.

Township 15 south, *Range* 4 west

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19 5 47	20 57 46 57	21 40 63	22 24	23 23 29 24	24 30 17 24 28
4 30 45 54 56 54	29 58 59 59&60	28 39 62	27	26 24 27 22	25 15 50
31 56 7 & 11	32 61 8 & 10	33 37 8 & 9	34 9	35 22 26	36 14 48

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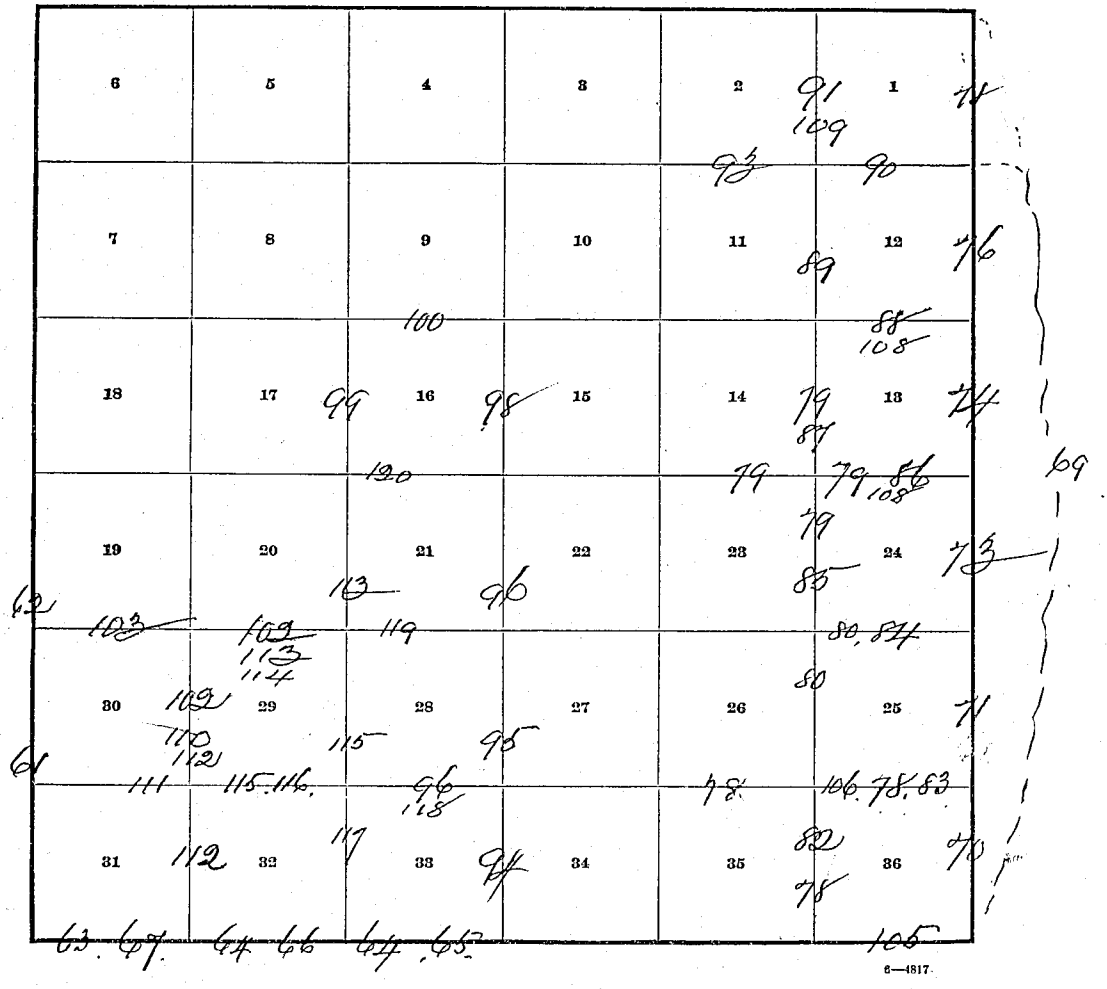
BOOK A-432

4—679 b

INDEX DIAGRAM.

Township 15 S, Range 4 W



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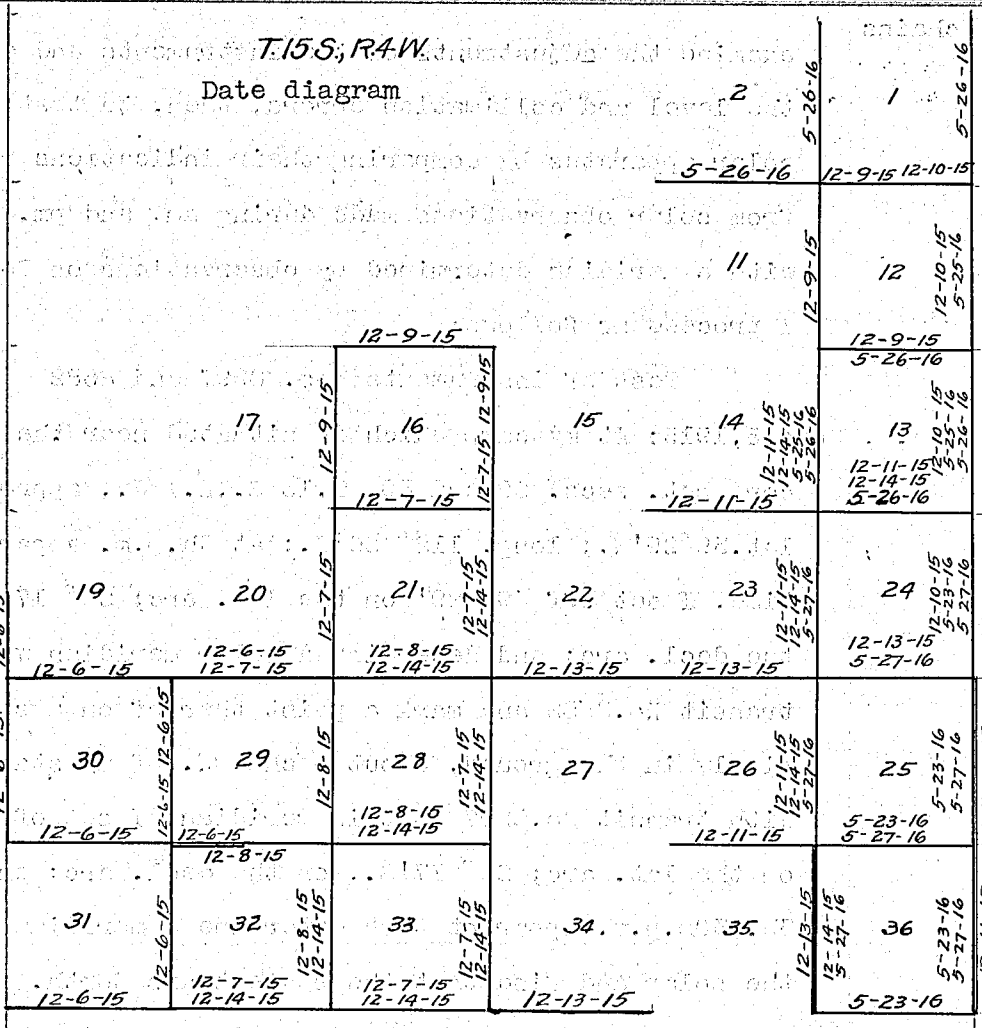
Resurvey of the West boundary of T.15 S.,R.4 W.



All lines marked and dated with red ink were surveyed by Isaac Hayes, U.S. Transitman and all lines marked and dated with black ink were surveyed by Howard W. Miller, U. S. Surveyor.

Resurvey of the West boundary of T.15 S.,R.4 W.

Survey commenced Dec.5,1915 and executed with Young and Sons light mountain transits Nos. 8295,8297 and 8582, equiped with Smiths solar attachment and full vertical circles. The horizontal limbs 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 lat. arcs; declination arcs and vertcle circles.

Instruments Nos.8297 and 8582 were approved for use in this survey by the assistant supervisor of surveys for Utah in assignment instructions dated Oct.5,1915. Instrument No.8295 was approved in supplemental assignment instructions dated May 18,1916.

Resurvey of the West boundary of T.15 S.,R.4 W.

chains

I examine the adjustments of the instruments and correct the level and collimation errors, then, to test the solar apparatus by comparing their indications resulting from solar observations made during am. and pm. hours with a meridian determined by observations on Polaris I proceed as follows:

Test of instruments Nos. 8297 and 8582

Dec.5,1915: At my camp which is situated near the ¼ sec. cor. bet. secs. 29 and 30, T.15 S.,R.4 W., approximate lat. 39°29'N.; long. 112° 26'W.; at 3h.p.m. apparent time, I set off 39° 29' on the lat. arc; 22° 17½'S., on the decl. arc; and determine a solar meridian with transit No.8582 and mark a point thereof on a stake, set firmly in the ground, about 5 chs. N. of my station. With transit No.8297 in this meridian, I set off 39°29' on the lat. arc; 22° 17'S., on the decl. arc; and at 3h. 30m.p.m. apparent time determine a meridian with the solar and find that the stake bears North.

At 5h. 27m.p.m. by my watch, which is 29.7 minutes fast of l.m.t., I make an hour angle obsn. on Polaris, and note that an angle from the star to the stake at time of obsn. is 1° 13' to the west

Watch time of obsn.Dec.5 ----------	5h. 27.0m.p.m.
Watch fast ----------	0h. 29.7m.
L.m.t. of obsn. Dec. 5 ----------	4h. 57.3m.p.m.
L.M.T. of U.C.Pol. Dec. 5 ----------	8h. 36.0m.p.m.
Corrected for long. 112° 26'W.----	0h. 1.2m.
L.m.t.of U.C.Pol. at station------	8h. 34.8m.p.m.
Time interval bet. time of obsn. and U. C, Pol. ----------	3h. 37.5m
Eastern azimuth of Pol.at obsn.	1° 13'

The true bearing of the stake by Pol. obsn. is North.

December 5,1915.

Dec. 6: At 8h. 15m. a.m. apparent time, I set off 39°29' on the lat. arc; 22°21'S., on the decl. arc; and determine a meridian with the solar (transit No.8582) and findthat the stake bears North. At the same hour and with the same lat. and decl. set off on the arcs of transit No.8297, I determine a meridian with the solar and find that the stake bears N. 0° 01'W.

chains

The solar apparatus of both instruments, by p.m. and a.m. obsns. defines positions for meridians that do not vary more than 1' from the mer. established by the Pol. obsn., I therefore conclude that the instruments are in good adjustment.

The magnetic bearing of the true meridian at 8h.20m.a.m. is N.16° 35'W.; the angle thus determined gives the magnetic decl. 16° 35'E.

Dec.6: At the ¼ sec. cor. bet. secs. 29 and 30, I set off 22° 25'S., on the decl. arc; and at apparent noon obs. the sun on the mer.; the resulting lat. is 39° 29' with transit No. 8582.

Dec.6: At the ¼ sec. cor. bet. secs. 19 and 30, I set off 22° 25'S., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. with transit No. 8297 is 39° 30'.

December 6,1915.

Test of instrument No:8295

May 20,1916: Station near the ¼ sec. cor. bet. secs. 3 and 10, T.15 S.,R.4 W., approximate lat. 39°32'N., longitude 112° 23'W.; at 4h.p.m. apparent time, I set off 39° 32' on the lat. arc; 20°05'N., on the decl. arc; and determine a meridian with the solar and note that a tree about 5 miles distant bears N. 5° 39'W.

At the following times by my watch which is 29.5 minutes fast of l.m.t., I make an hour angle observation on Polaris in accordance with the Manual of Instructions.

	Tree	Star	Time
	telescope direct		
	0° 00' 00"	4° 51'	7h. 47m. 30s.
	0° 00' 00"	4° 51'	7h. 48m. 30s.
	telescope reversed		
	0° 00' 00"	4° 52'	7h. 49m. 30s.
	0° 00' 00"	4° 52'	7h. 50m. 30s
Mean	0° 00' 00"	4° 51.5'	7h. 49m. 00s.
Watch time of obsm. May 20			7h. 49m. 00s.
Watch fast of l.m.t.			29m. 30s.
L.m.t. of obsn.			7h. 19m. 30s.
U.C.Polaris May 20,1916			9h. 38.1m. a.m.
Corrected for long.112° 23', subtract			1.2m.
U.C.Pol. at station			9h. 36.9m.a.m.
Hour angle of Polaris			9h. 42.6m.
West azimuth of Polaris			0° 48'
Add			4° 51.5'
Tree bears		N.	5° 39.5' W.

May 20,1916.

Resurvey of the West boundary of T.15 S.,R.4 W.

chains

May 21: At 8h.a.m. apparent time, I set off 39°32' on the lat.arc; 20°13½'N., on the decl. arc; and determine a meridian with the solar and find that tree bears N. 5° 40'W.

The solar apparatus by p.m. and a.m. observations defines positions for meridians about 0'30" west and 0'30"east of the mer. established by Pol. obsn., I therefore conclude that the instrument is in adjustment.

May 21: With the instrument in the true mer.,I set off 20° 15½'N. on the decl. arc; and at apparent noon obs. the sun on the mer.; the resulting lat. is 39° 32'

Steel tapes, 5 chs. long, together with clinometers for determining slope angles were used by both parties and the reduced horizontal distances only appear in the field notes. The tapes were tested, comparison being made with a standard tape, kept and used for that purpose only.

The instruments were tested on meridians established by Polaris observations at different times during the survey and thereby kept in adjustment.

I begin at the cor. of secs. 25,30,31 and 36,on W.bdy.Tp., a granite stone, 4x6x6 ins. above ground, firmly set and properly marked. No accessories to cor.

I remonument cor. as follows: Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground alongside old cor. for cor. of secs. 25,30,31 and 36, with brass cap marked

T 15 S
R 5 W | R 4 W
S 25 | S 30
S 36 | S 31
1915

Note: Cor. stands on west edge of road bearing N. and S. and I therefore do not build accessories.

Thence

North, resurveying bet. secs. 25 and 30

Over gently rolling sandy land along W. side of ditch course N. and on E. side of wire fence bearing N. and S.

Resurvey of the West boundary of T.15 S.,R.4 W.

chains	
10.00	Irrigation ditch, 15 lks. wide, 3½ ft. deep, course W.
20.00	Irrigation ditch, 15 lks. wide, 3½ ft. deep, course W. Ditch comes from the south and turns west about 50 lks. E. of line.
20.20	Junction of fences bearing E.W. and S., bears W. about 1.00 ch.
40.15	Fall 14 lks. W. of the ¼ sec. cor., which is a flint stone, 8 x 4 x 6 ins. above ground, firmly set, properly marked. No accessories to cor.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground alongside old cor. for ¼ sec. cor., E. bdy. sec. 25, T.15 S.,R.5 W., with brass cap marked S 25¼ | 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.
	The true bearing of this ½ mile is N.0°12'E., and the distance is 40.15 chs.
	From ¼ sec. cor., I continue North.
13.45	Road, bears E. and W.
18.45	Wire fence, bears E. and W.
39.96	Fall 21 lks. W. of the cor. of secs. 24 and 25, E. bdy. of T.15 S.,R.5 W., which is a quartzite stone, 6 x 4 x 8 ins. above ground, firmly set, properly marked and witnessed.
	The true bearing of this ½ mile is N.0°18'E., and the distance is 39.96 chs.
	Land, rolling, gentle N. exposure and drainage.
	Soil, light red sand on sandy sub-soil.
	Timber, a few scattering cedar on both sides of line.
	Undergrowth, sage and greasewood.

	From cor. of secs. 24 and 25,

Resurvey of the West boundary of T.15 S.,R.4 W.

chains	
	North, retracing E. bdy. sec. 24, T.15 S.,R.5 W.
4.70	Left bank of Sevier river, course SW.
	Thence across river by direct measurement.
6.56	Point for cor. of secs. 19 and 30, W. bdy. of T.15 S., R.4 W. falls in river.
7.60	Right bank of river, course at bend from N.10°E. to SW.
	No trace of the cor. of secs. 19 and 30 can be found.
	Line North from this point follows river, crossing and recrossing same, I therefore offset as follows:
	East, 5.00 chs. crossing river by direct measurement.
	Thence North on offset line 40.00 chs.(counted from cor. secs. 24 and 25); then
	West, 5.00 chs. to true line, on which at
40.00	Fall 7 lks. E. of the ¼ sec. cor. which is a pine post, 2 ins. square, 4 ft. long, lying on ground and dimly mkd. ¼ on one face. Reset post 36 ins. in the ground mkd. ¼ on W. face. No accessories built at this cor. as stone for mound is not available and cor. point is in deep, loose sand where pits would be obliterated.
	Cor stands at cor. of wire fences bearing N.,E. and W.
	The true bearing of this ½ mile is N.0°06'W. and the distance is 40.00 chs.
	Thence from cor. of secs. 24 and 25,
	N.0°6'W.resurveying E. bdy sec. 24, T.15 S.,R.5 W.
	Over rolling mountainous land, through dense undergrowth of sagebrush and greasewood.
4.50	Top of bluff on S. side of Sevier river, bears NE. and SW.
	Descend abruptly.
4.70	Left bank of river, clear water, 2 to 5 ft. deep on muddy bottom, course SW. from N.10°E.
	Thence across river.
6.56	Proportionate measurement. Point for restored cor. of secs. 19 and 30, W. bdy. of T.15 S.,R.4 W. falls in river. No cor. set.
7.60	Right bank of river.

Resurvey of the West boundary of T.15 S.,R.4 W.

chains

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for witness cor. to cor. of secs. 19 and 30, W. bdy. T.15 S.,R.4 W., with brass cap marked

T 15 S
R 5 W | R 4 W
S 19
S 24
WC
S 30
S 25

1915

dig pits, 36 x 36 x 12 ins., NE. and SE. of post, 6 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, E. of cor.

Offset, East, 5 chs., then on offset N.0°06'W., 40.00 chs. (counted from cor. of secs. 24 and 25), then West, 5.00 chs. to

40.00 The ¼ sec. cor.

Land, rolling mountainous, slopes and drains N. and W. into Servier river which flows SW.

Soil, loose, dry, red sand on sandy sub-soil. Some gypsum formation along river.

No timber,

Undergrowth, sagebrush and greasewood. Fair grazing.

Retracement and resurvey

of the Third St. Par. South, through Range 4 West.

I begin at the St. cor. of T.15 S.,Rs. 4 and 5 W., which is a cedar stake, 2 ins. square, extending 18 ins. above ground, firmly set, marked with 6 notches on S. edge. No accessories to cor.

Thence

East, retracing S. bdy. sec. 31

40.00 No trace of the old ¼ sec. cor. can be found. Point for ¼ cor. in resevoir under water.

81.14 Fall 28 lks. S. of the St. cor. of secs. 31 and 32, which is a greatly decayed cedar post, 4 ins. square, 30 ins.

chains	
	long, lying on the ground, and marked dimly with 5 notches on one and one notch on opposite edge, T 15 S R 4 W and other obliterated marks on one face; and S 32 on one face. Unable to distinguish any other marks. No accessories to cor.
	The true bearing of this mile is S.89° 48'W., and the distance is 81.14 chs.

	From St. cor. secs. 31 and 32,
	East, retracing S. bdy. sec. 32
40.60	Fall 48 lks. S. of the St. ¼ sec. cor., which is a greatly decayed and broken cedar stake, 2 ins. square, extending 16 ins. above ground, firmly set. Found markings of cor. on broken parts of stake lying on the ground. No accessories.
	The true bearing of this ½ mile is S.89°19'W., and the distance is 40.60 chs.
	From point 48 lks. S. of ¼ sec. cor., I continue East.
81.22	Fall 38 lks. S. of the St. cor. of secs. 32 and 33, which is a decayed cedar stake, 2 ins. square, 24 ins. long, lying on the ground. Only marks visible on post are T 15 S R 4 W and 4 notches. No accessories to cor.
	The true bearing of this ½ mile is N.89° 52'W. and the distance is 40.62 chs.

	From St. cor. of secs. 32 and 33
	East, retracing on S. bdy. of sec. 33
40.00	No trace of the old st. ¼ sec. cor. can be found. I therefore continue my line east and at
163.06	Fall 78 lks. S. of the St. cor. of secs. 34 and 35 which is the intersection of wire fences bearing N.,S.,E. and W. Unable to find any marked stone and I am informed by settlers owning land adjacent to this cor. that the old post cor. which originally stood at the intersection

Chains.

of these fences has rotted away; I therefore accept this point as being the old cor.point for secs.34 and 35.

The true bearing of the line bet.sor.of secs.32 and 33 and the cor.of secs.34 and 35 is therefore S.89° 44' W. and the distance is 163.06 chs. or the proportionate distance for each mile is 81.53 chs.

I return to temp.point left for St.cor.of secs.33 and 34 and restore same in accordance with the above, as follows:

Set an iron post 3 ft.long, 3 ins.in dia., 24 ins.in the ground for St.cor.of secs.33 and 34, with brass cap marked

T 15 S | R 4 W
S 33 | S 34

1915

dig pits 24 x 18 x 12 ins.crosswise on each line, E. and W. 3 ft., and N.of post 7 ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high N.of cor. Thence S.89° 44' W. resurveying on S.bdy.sec.33,

Over nearly level land through dense undergrowth of sagebrush.

31.10 Old log cabin bears S., approximately 10.00 chs.

40.76½ Proportionate measurement. I restore this ¼ sec.cor.as follows:

Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground for ¼ sec.cor.on the N.bdy.of sec.4, T.16 S., R.4 W., with brass cap marked

S 4 ¼
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 S. of cor. It also stands for ¼ sec.cor of sec.33.

49.40 Fool Creek Wash 150 lks.wide, 10 ft.deep, course NW.

Chains.	
	Enter cedar timber and rolling sand hills, bearing NW. and SE.
55.05	Same wash, 75 lks. wide, course SE.
69.55	Same wash, course N.30° W.
81.53	The St. cor. of secs. 32 and 33,

Knowing that this cor. will not refer to secs. 32 and 33 I re-establish same for cor. of secs. 4 and 5 T. 16 S., R. 4 W. as follows:

Set an iron post 3 ft. long, 3 ins. in dia. 24 ins. in the ground at exact position of old cor. and bury old post cor. alongside for cor. of secs. 4 and 5 N. bdy. of T. 16 S. R. 4 W., with brass cap marked

T 15 S
R 4 W | S 32 | S 33
S 5 | S 4
T 16 S
1915

from which

A cedar, 12 ins. diam., bears S. 74° E. 96 lks. dist. marked T 16 S R 4 W S 4 B T

No other trees available.

Dig pits 36 x 36 x 12 ins. SE. and SW. of post, 6 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high S. of cor.

Land, eastern portion mile nearly level flat; western portion, rolling sand hills. General drainage W.

Soil, sandy on sandy sub-soil.

Timber, cedar in western portion of mile.

Undergrowth, sagebrush. Fair grass for grazing.

N. 89° 52' W. resurveying S. bdy. sec. 32,

Over rolling sand hills; through cedar timber and undergrowth of sagebrush.

23.00	Wire fence, bears N. and S.
40.62	The old St. $\frac{1}{4}$ sec. cor. Knowing that this cor. will not refer to sec. 32, I re-establish same for $\frac{1}{4}$ sec. cor.

Chains.

on the N.bdy. sec. 5, T. 16 S., R. 4 W. as follows:

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. N.bdy. sec. 5 T. 16 S., R. 4 W. with brass cap marked

S 5 ¼
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 S. of cor. Thence

S. 89° 19' W.

62.60 Canal, 40 lks. wide, 4 ft. deep, course S. 30° W.

81.22 The St. cor. of secs. 31 and 32. Knowing that same will not refer to secs. 31 and 32, I re-establish cor. to refer to secs. 5 and 6 T. 16 S., R. 4 W., as follows:

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground at exact position of old cor., and bury old post cor. alongside for cor. of secs. 5 and 6 N.bdy. of T. 16 S., R. 4 W., with brass cap marked

T. 15 S.
R 4 W | S 31 | S 32
S 6 | S 5
T 16 S
1915.

Dig pits 36 x 36 x 12 ins. SE. and SW. of post, 6 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high S. of cor.

Land, rolling sand hills.

Soil, loose red sand on sandy subsoil.

Timber, cedar.

Undergrowth, sagebrush. Some grass, good for grazing.

S. 89° 48' W. resurveying on S.bdy. of sec. 31,

Over low rolling sand hills; through dense sage and rabbit brush.

Chains.

2.70 Road bears NW. and SE. Enter large reservoir, now dry at this point, bears NW. and SE.

40.57 Proportionate measurement. Point for $\frac{1}{4}$ sec. cor. falls in reservoir, where corner cannot be set; therefore at

44.04 On high sandy knoll, set an iron post 3 ft. long, 1 in. dia. 26 ins. in the ground for witness cor. to the $\frac{1}{4}$ sec. cor. sec. 31 and sec. 6, with brass cap marked

T 15 S

R 4 W ——— WC $\frac{1}{4}$

S 6

T 16 S

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 S. of cor. (Not marked for Sec. 31.)

53.30 Leave reservoir, bears N. and S. Thence over higher bench land.

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

61.14 The St. cor. of Tp. 15 S., Rs. 4 and 5 W. I re-establish same as follows:

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground alongside old cor. for St. cor. of Tps. 15 S. Rs. 4 and 5 W., with brass cap marked

T 15 S

R 5 W | R 4 W

S 36 | S 31

1915

from which

A cedar, 32 ins. diam. bears N. 70° 20' E. 164 lks. dist., marked S C T 15 S R 4 W S 31 B T

No other trees available.

Cor. stands in deep loose sand and as stone is not available for mound do not build any other accessories.

The corner of a wire fence bearing N. and W., bears N. 7 ° W. 25 lks. dist.

Land, rolling sand hills.

Retracement and survey of the E. bdy. of T.15 S.,R.4 W.

chains	
	Soil, loose sand about 3 ft. deep on hard pan sub-soil.
	Timber, scattering cedar on western portion mile.
	Undergrowth, sagebrush.

	Retracement and survey of the E.bdy. of T.15 S.,R.4 W.
	I begin at the cor. of secs. 1 and 12, E. bdy. of T.15 S.,R.4 W., which is a red quartz stone , 24 x 20 x 8 ins., firmly set in a mound of stone, marked and witnessed as described by the surveyor general.
	Thence south
	South, retracing the west boundary of sec. 6, T.15 S.,R. 3 W.
27.10	No trace of the cor. of secs. 6 and 7 on the W. bdy. of T.15 S.,R.3 W. can be found. I therefore continue my line south making careful searches at intervals of 40.00 chs. for ¼ sec. and sec. cors., set temp. points for same and also make ties to temp. E. and W. sub-divisional lines in T.15 S.,R.4 W.
	All distances counted from the cor. of secs. 1 and 12, E.bdy. T.15 S.,R.4 W.
80.66	Intersect E. and W. line bet. secs. 12 and 13, T.15 S., R. 4 W.
160.59	Intersect E. and W. line bet. secs. 13 and 24, T.15 S., R.4 W.
242.11	Intersect E. and W. line bet. secs. 24 and 25, T.15 S., R.4 W.
267.21	Edge of impassable ledges, to pass which, I offset as follows:
	West, 5.62 chs., then on offset
	South, 15.94 chs., then
	East, 5.62 chs. to
283.15	To true retracement line.
323.61	Interesect E. and W. line bet. secs. 25 and 36, T.15 S., R.4 W.

Retracement and survey of the E. bdy. of T.15 S.,R.4 W.

chains	
404.67	Intersect E. and W. line bet. secs. 1 and 36, Tps. 15 and 16 S.,R. 4 W. Cor. for Tps. 15 and 16 S.,R. 4 W. set at this point. See line bet. secs. 1 and 36, S. bdy. T.15 S.,R.4 W.
427.10	No trace of the old cor. of T.15 S.,Rs. 3 and 4 W. can be found. I also make retracements connecting cor. of secs. 35 and 36, T.15 S.,R.4 W. with this temp. cor. but am unable to find evidence of any old cors., therefore, pursuant to instructions from the surveyor general dated April 18,1916, I survey this range line setting cors. for T.15 S.,R.4 W. as follows:
	From the cor. of Tps. 15 and 16 S., R.4 W. (for description of cor. see S. bdy. T.15 S.,R.4 W.)
	North, on E. bdy. sec. 36, T.15 S.,R.4 W.
	Over rough mountainous land draining NW:, through dense undergrowth of sagebrush and very scattering cedar timber.
	Gradually descend along W. slope.
16.40	Top of spur, 125 ft. below Tp. cor., projects NW.
	Descend abruptly over N. slope.
29.40	Bottom of canyon, wash in same 20 lks. wide 1 ft. deep, near mouth of rocky gorge, 185 ft. below spur, course W.
	Gradually ascend over SW. slope near base of rough broken rim of quartz ledges bearing N. and S. about 3 chs. E. of line.
40.53	Midway bet. point for cor. of secs. 25 and 36 and the cor. of Tps. 15 and 16 S.,R.4 W.
	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground to solid rock and 14 ins. in a mound of stone for $\frac{1}{4}$ sec. cor. on the E. bdy. of sec. 36, with brass cap marked $\frac{1}{4}$ S 36 1916 raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

chains	
	Cor. stands 70 ft. above canyon at base of quartz ledges bearing N. and S.
	Continue ascent.
56.50	Ridge, 75 ft. above ¼ sec. cor., bears E. and W.
	Descend over broken NW. slope.
79.00	A small gulch, with seap in same, 100 ft. below ridge, course W. A wooden water trough on line in gulch.
	Ascend abruptly 30 ft. to
80.92	Point for cor. of secs. 25 and 36 will fall on ledge where cor. cannot be set, therefore at this point, Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in a mound of stone on solid bed rock for witness cor. to the cor. of secs. 25 and 36, E. bdy. T.15 S.,R.4 W. with brass cap marked

T 15 S
S 25 | WC
S 36 | R 4 W
1916

raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. about 20 lks. dist. Steep ledge prevents raising md. just W. of cor.

81.06	Intersection with E. and W. line bet. secs. 25 and 36, T.15 S.,R.4 W. Point for cor. secs. 25 and 36 falls on ledge and cannot be set.

Land, rough, broken mountains, W. exposure and drainage.
Soil, shallow sand and rocky of quartz formation on rocky sub-soil.
Timber, very scattering scrub cedar.
Undergrowth, sagebrush. Fair grazing.

From true cor. point for secs. 25 and 36,
North, on E. bdy. sec. 25
Over rough broken mountainous land, along base of high quartz ledges bearing N. and S. about 1 ch. east of line, through undergrowth of sagebrush and scattering scrub cedar timber.

Retracement and survey of the E.bdy. of T.15 S.,R.4 W.

chains	
8.00	Head of draw, drains W. into large basin.
	Ascend abruptly over rugged SW. slope.
29.70	Top of rocky ridge, 310 ft. above draw, bears E. and W.
	Descend abruptly along broken W. slope of quartz ledges.
40.00	Descend abruptly over quartz ledge 30 ft. high, bears N.10°W. and S.
40.46	Point for ¼ sec. cor. will fall on ledge and cannot be set, therefore at this point.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in a mound of stone on solid rock for witness cor. to the ¼ sec. cor. on E. bdy. sec. 25, with brass cap marked
	WC ¼ S 25 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Cor. stands on W. slope in ledges, 280 ft. below ridge.
	The line north follows along nearly perpendicular quartz ledges and cannot be chained, offset as follows:
	West, 5.62 chs., then on offset
40.75	North, 15.94 chs., then True point for ¼ sec. cor. 5.62 chs. east. East, 5.62 chs. to
56.40	To true line and leave ledges, bears NE. and S.
	Descend.
62.70	Ravine, 125 ft. below ¼ sec. cor., course W.
	Ascend abruptly over rocky SW. slope.
72.60	Spur, 105 ft. above ravine, projects W. about 10 chs.
	Descend.
79.10	Base of descent, bears N. and S., wash, 10 lks. wide, 3 ft. deep, 105 ft. below spur, course W.
	Thence in bottom of wide draw.
81.50	Intersection with line bet. secs. 24 and 25, T.15 S., R.4 W.
	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in

Retracement and survey of the E.bdy. of T.15 S.,R.4 W.

chains	
	a mound of stone on solid rock for cor. of secs. 24 and 25, with brass cap marked T 15 S S 24 S 25 R 4 W 1916 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, rough, broken mountains, W. exposure and drainage.
	Soil, rocky of red and blue quartz formation on rocky sub-soil.
	Timber, scattering scrub cedar and pinon.
	Undergrowth, sagebrush. Fair grazing.

	North, on E. bdy. of sec. 24
	Over mountainous land in bottom of wide draw, through dense undergrowth of sagebrush and scattering scrub cedar and pinon timber.
4.20	Road from Leamington to Juab,Utah, bears N.80°W. and S.80°E.
12.20	Wash, 20 lks. wide, 1½ ft. deep, drains N.80°W. Road in wash, bears N.80°W. and S.80°E. Forks about 5 chs. W.
	Ascend abruptly over rugged S. slope of mountain.
27.50	Slope of mountain changes to SE., this being point of mountain projecting S.60°E. and S.60°W.
	Continue ascent.
40.40	Top of sharp rocky red quartz ridge, 615 ft. above sec. cor. bears E. and W.
	Descend.
40.76	Midway bet. cor. of secs. 24 and 25 and point for cor. of secs. 13 and 24.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in a mound of stone on solid rock for ¼ sec. cor. on E. bdy. sec. 24, with brass cap marked ¼ S 24 1916

Retracement and survey of the E. bdy. of T. 15 S., R. 4 W.

chains	
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Descend abruptly.
52.00	Deep ravine, 300 ft. below ridge, course W.
	Ascend abruptly over ledges.
59.00	Top of steep ascent and leave ledges, bears N.20°E. and S.10°W. Ascend more gradually.
63.00	High spur, 150 ft. above ravine, projects W.
	Descend abruptly over precipitous NW. slope
79.00	Base of steep descent and edge of draw, 410 ft. below spur, bears E. and W. Gradually descend.
81.52	Intersection with line bet. secs. 13 and 24, T. 15 S., R. 4 W.
	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in a mound of stone on solid rock for cor. of secs. 13 and 24, with brass cap marked
	T 15 S S 13 S 24 R 4 W 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, rough broken mountains, general W. exposure and drainage.
	Soil, rocky of red and blue quartz formation on rocky sub-soil.
	Timber, scattering scrub cedar and pinon.
	Undergrowth, sagebrush.

	North, on E. bdy. sec. 13
	Over rough, broken mountainous land through undergrowth of sagebrush and scattering scrub cedar and pinon timber.
.50	Bottom of draw, drains W. Gradually ascend.
2.50	Low point between draws, falls W.
	Descend.

Retracement and survey of the E. bdy. of T.15 S.,R.4 W.

chains	
9.80	Wash in draw, 70 lks. wide, 3 ft. deep, course S.60°W.
13.00	Wash, 40 lks. wide, 4 ft. deep, course SW.
	Ascend abruptly over rocky SE. slope.
18.40	Begin ascent over broken red quartz ledges, bears E. and W.
23.20	Top of ridge and leave ledges, 330 ft. above wash, bears NE. and SW.
	Descend abruptly over NW. slope.
28.30	Head of ravine, 150 ft. below ridge, course NW.
	Thence along W. slope from sharp rocky point.
32.00	Descend abruptly over NW. slope.
34.10	Ravine, 50 ft. below top steep descent, course W. about 4 chs. thence NW.
	Ascend abruptly.
38.10	Spur, 60 ft. above ravine, projects NW.
	Descend abruptly.
39.96½	Midway bet. the cor. of secs. 13 and 24 and the point for cor. of secs. 12 and 13.
	Set an iron post, 3 ft. long, 1 in. in dia., 13 ins. in the ground to solid rock and 13 ins. in a mound of stone for ¼ sec. cor. E. bdy. sec. 13, with brass cap marked ¼ S 13 1916 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
42.30	Ravine, 180 ft. below spur, course W. about 3 chs., thence NW.
	Ascend abruptly over rugged SW. slope over series of quartz ledges bearing E. and SW.
48.00	Sharp rocky point of spur, 100 ft. above ravine, projects W.
	Descend abruptly over NW. slope into ravine.
54.10	Ravine, 250 ft. below spur, draind SW.
	Ascend abruptly.

Retracement and survey of the E.bdy. of T.15 S.,R.4 W.

chains	
56.40	Sharp rocky ridge, 50 ft. above ravine, bears E. and SW. Descend abruptly.
68.00	Base of slope and mouth of canyon, 200 ft. below ridge, bears NE. and SW.
	Thence across mouth of canyon.
73.00	Wash, 20 lks. wide, 3 ft. deep, course SW.
79.93	Intersection with line bet. secs. 12 and 13.
	Set an iron post, 3 ft. long, 3 ins. in dia., 14 ins. in the ground on solid rock and 10 ins. in a mound of stone for cor. of secs. 12 and 13, with brass cap marked
	T 15 S S 12 S 13 R 4 W
	1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, very rough broken mountains, general W. exposure and drainage.
	Soil, rocky and gravelly of blue quartz formation on rocky sub-soil.
	Timber, very scattering scrub cedar and pinon.
	Undergrowth, sagebrush. Fair grazing.

	North, on E. bdy. sec. 12
	Over mountainous land in mouth of canyon through dense undergrowth of sagebrush.
.30	Old road, bears N.80°E. and S.80°W.
2.20	Wash, 50 lks. wide, 4 ft. deep, course S.80°W.
	Leave canyon, bears E. and W. Ascend abruptly over rocky slope.
12.80	Quartz ledge, 100 ft. high, bears E. and W.
17.20	Sharp, rocky ridge, 380 ft. above sec. cor., bears E. and W.
	Descend across head of small ravine, rough broken land.

Retracement and survey of the E. bdy. of T.15 S.,R.4 W.

chains	
	thence ascend.
26.00	Sharp rocky spur, 250 ft. below ravine, projects W.
	Descend abruptly over broken quartz ledges.
31.90	Leave ledges, bears NE. and SW.
	Descend more gradually.
40.33	Midway bet. the cor. secs. 12 and 13 and cor. of secs. 1 and 12.
	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground on solid rock and 14 ins. in a mound of stone for ¼ sec. cor., E. bdy. sec. 12, with brass cap marked ¼ S 12 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
43.40	Descend very gradually in bottom of canyon.
51.10	Bottom of canyon and wash, 30 lks. wide, 4 ft. deep, 390 ft. below spur, course W.
	Gradually ascend.
53.56	The record distance south of the cor. of secs. 1 and 12 and point for cor. of secs. 6 and 7, W. bdy. of T.15 S.,R.3 W.
	Set an iron post, 3 ft. long, 3 ins. in dia., 12 ins. in the ground on solid rock, and 12 ins. in a mound of stone for cor. of secs. 6 and 7, with brass cap marked T 15 S S 6 S 7 R 3 W 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor.
	Ascend abruptly over broken red quartz ledges 50 to 100 ft. high.
61.60	Top of sharp rocky ridge, 340 ft. above sec. cor., bears NE. and SW.

Retracement and resurvey of subdivision of T.15 S.,R.4 W.

chains

Descend abruptly over NW. slope over broken ledges and large boulders.

80.66 The cor. of secs. 1 and 12, 570 ft. below ridge.

Land, rough, broken mountains with steep slopes of ridges into canyons draining W.

Soil, rocky of red quartz formation on rocky sub-soil.

Timber, very scattering scrub cedar and pinon.

Undergrowth, sagebrush.

To ascertain the bearing of the E. bdy. of sec. 1, I set over the cor. of secs. 1 and 12 from which the cor. of Tps.14 and 15 S.,R. 4 W. is plainly visible and find that the bearing of the line is north.

Retracement and resurvey of subdivision of T.15 S., R 4 W.

From the St. cor. of secs. 35 and 36 on the S. bdy. of the tp. and described on page 48 of these notes.

North, retracing bet. secs. 35 and 36.

40.18 Fall 36 lks. W. of the ¼ sec. cor. which is a cedar post 2 ins. square, extending 16 ins. above ground, firmly set, marked dimly ¼ on one face. Few scattered stones about the cor.

The bearing of this ½ mile is N.0°31'E., and the distance is 40.18 chs.

From ¼ sec. cor.

North

40.00 From this point the center of an apparently newly built mound of stone brs.N.105 and W. 159 lks. I find no trace of a marked stone or any other evidence of the cor. of secs. 25,26,35 and 36. Set temp. point.

From center of mound of stone or from point 105 lks. N. and 159 lks. W. of temp. cor. of secs. 25,26,35 and 36 N.89°33'W., retracing bet. secs. 26 and 35.

Retracement and resurvey of subdivision of T.15 S.,R.4 W.

chains	
39.94	No trace of the old ¼ sec. cor. can be found.
80.00	Fall 16 lks. N. of the cor. of a fence bearing E.,W. and S. I am informed by a settler owning land adjacent to this point that the cor. of the fence is the cor. of secs. 26,27,34 and 35 and that the old post cor. which originally stood there has rotted away, I therefore recognize this as the true cor. point.

	The cor. of secs. 11;12;13 and 14 is a quartzite stone, 12 x 10 x 5 ins. above ground, firmly set, properly marked but not witnessed: I 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
	South, retracing bet. secs. 13 and 14.
40.00	No trace of the ¼ sec: cor. can be found.
80.00	No trace of the cor. of secs. 13,14,23 and 24 can be found. Set temp. cor.

	From temp. cor. of secs. 13,14,23 and 24
	East, retracing bet. secs. 13 and 24.
40.00	No trace of the ¼ sec: cor. can be found.

	From temp. cor. of secs. 13,14,23 and 24
	S.89°57'W., retracing bet. secs. 14 and 23.
39.98	No trace of the ¼ sec. cor.
79.69	Fall 3 lks. S. of the cor. of secs. 14,15,22 and 23, which is an old decayed cedar post, one end of which is sharpened and one side hewed and contains impressions of old marks. Other parts of post lying on ground near cor.

	From temp. cor. of secs.13,14,23 and 24.
	South; retracing bet. secs. 23 and 24.
40.00	No trace of the ¼ sec. cor.

Retracement and resurvey of subdivision of T.15 S.,R.4 W.

chains	
80.00	No trace of the cor. of secs. 23,24,25 and 26 can be found. Set temp. cor.
	From temp. cor. secs. 23,2425 and 26
	East, retracing bet. secs. 24 and 25
40.00	No trace of ¼ sec. cor.
80.00	No trace of the cor. of secs. 24 and 25.
	From temp. cor. secs. 23,24,25 and 26
	N.89°57'W., retracing bet. secs. 23 and 26
40.08	No trace of the ¼ sec. cor.
80.16	No trace of the cor. of secs. 22,23,26 and 27. Set temp. point.
	From temp. cor. secs. 22,23,26 and 27
	N.89° 59'W., retracing bet. secs. 22 and 27
40.04½	No trace of the ¼ sec. cor.
81.48	Fall 2.39 chs. N. of the cor. of secs. 22 and 27 described on page 39 of these notes.
	From temp. cor. secs. 23,24,25 and 26
	South, retracing bet. secs. 25 and 26.
40.00	No trace of ¼ sec. cor.
84.23	Fall 54 lks. E. of center of mound of stone described on line bet. secs. 35 and 36
85.28	Fall 10 5 lks. W. of the temp. cor. of secs. 25,26,35 and 36.

ooo

I restore the cor. of secs. 25,26,35 and 36 as follows: From the temp. cor. of secs. 25,26,35 and 36, set 40.00 chs. north of the ¼ sec. cor. bet. secs. 35 and 36 and which I designate as "A", I set point "B" 5.28 chs. N. and 1.05 chs. W. this point being the record distance of 3 miles south of the cor. of secs. 11,12,13 and 14. From point "A" I set point "C" .89 chs. N. and 1.71 chs. W., this being record course and distance

chains

of the line bet. secs. 26 and 35. Point "C" is 4.39 chs. S. and 66 lks. W. of point "B". By relative weights, I restore the cor. of secs. 25,26,35 and 36, 1.02 chs. N. and 75 lks. W. of point "A". For description of cor. see resurvey of the line bet. secs. 35 and 36.

The course of the N.½ mile bet. secs. 35 and 36 is N.1°03'W., and the distance is 41.03 chs.

I restore the cor. of secs. 23,24,25 and 26 as follows: From temp. cor. of secs. 23,24,25 and 26 set 160.00 chs. S. of the cor. of secs. 11,12,13 and 14 and which I designate "A", I set point "B" 4.26 chs. S. and 30 lks. E., this point being 80.00 chs. N. of the restored cor. of secs. 25,26,35 and 36. From point "A" I set point "C" 2.39 chs. S. and 1.23 chs. W. this being the record course and distance of the two miles E. of the cor. of secs. 21,22,27 and 28. Point "C" is 1.87 chs. N. and 1.53 chs. W. of point "B". By relative weights I restore sec. cor. 1.70 chs. N. and 50 lks. W. of point "B". For description of cor. see resurveyed line bet. secs. 25 and 26.

The bearing of the line bet. secs. 25 and 26 is N.0°21'W. and the distance is 81.70 chs.

I restore the cor. of secs. 13,14,23 and 24 as follows: From the temp. cor. of secs. 13,14,23 and 24 set 80.00 chs. S. of the cor. of secs. 11,12,13 and 14 and which I designate "A", I set point "B" 2.56 chs. S. and 20 lks. W. this being 80.00 chs. N. of the restored cor. of secs. 23,24,25 and 26. I also set point "C" 97 lks. S. and 27 lks. E. of point "A" this being record course and distance of line bet. secs. 14 and 23. Point "C" is 1.59 chs. N. and 47 lks. E. of point "B". I now restore sec. cor. by relative weights 1.17 chs. S. and 3 lks. E. of point "A". For description of cor. see

chains	
	resurveyed line bet. secs. 23 and 24.
	The bearing of the line bet. secs. 23 and 24 is N.0°10'E. and the distance is 81.39 chs.
	The bearing of the line bet. secs. 13 and 14 is N.0°01'W. and the distance is 81.17 chs.

	From the St. cor. of secs. 35 and 36 on the S. bdy. of the tp.
	N.0°31'E., resurveying bet. secs. 35 and 36
	Over rolling mountainous land through dense undergrowth of sagebrush and very scattering scrub cedar timber.
	Gradually descend along rocky E. slope of ridge.
19.80	Descend abruptly over NE. slope into valley.
26.90	Wash, 20 lks. wide, 4 ft. deep, 115 ft. below sec. cor., drs. NW. Enter valley, bears E. and W. Thence over rolling sagebrush land strewn with large quartz boulders.
34.50	Wash, 50 lks. wide, 4 ft. deep, course W.
37.40	Wood road, bears E. and W.
40.18	The $\frac{1}{4}$ sec. cor. heretofore described.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground alongside old cor. for $\frac{1}{4}$ sec. cor., with brass cap marked S 35 $\frac{1}{4}$ | S 36 1915
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Thence
	N.1°03'W. with continuous chaining.
42.80	Wash, 50 lks. wide, 7 ft. deep, course W.
55.90	Small rocky knoll about 30 ft. high, bears W. about 1.00 ch.
67.60	Wash, 40 lks. wide, 7 ft. deep, course W.
81.21	Restored point for cor. of secs. 25,26,35 and 36.
	Set an iron post, 3 ft. long, 2 ins. in dia., 14 ins. in the ground on solid rock and 10 ins. in a mound of

chains

stone for cor. of secs. 25,26,35 and 36, with brass cap marked

T 15 S S 26	R 4 W S 25
S 35	S 36

1915

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

Land, southern portion mountainous, general E. exposure, drains N., northern portion rolling valley slopes and drains W.

Soil, gravelly and rocky of quartz formation with some shallow sandy soil of gravelly and rocky subd-soil.

Timber, very scattering scrub cedar and pinon.

Undergrowth, sagebrush. Fair grazing.

N.0°21'W., resurveying bet. secs. 25 and 26

Over rolling land draining W., through dense undergrowth of sagebrush.

20.00 Cor. of fence lines bearing N. and W. Thence along fence.

30.40 Old road, bears NE. and SW.

40.85 Proportionate measurement.

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in a mound of stone and earth on solid rock for ¼ sec. cor., with brass cap marked

S 26 ¼	S 25

1915

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

Cor. falls in dense sagebrush about 75 lks. E. of fence.

57.00 Wire fence and leave dense sagebrush, enter cultivated land bears E. and W.

60.00 Wire fence and leave cultivated land, enter dense undergrowth of sagebrush, rabbit brush and greasewood, bears E. and W. End of N. and S. fence, brs.W. 75 lks.

81.70 Restored point for cor. of secs. 23,24,25 and 26.

Retracement and resurvey of subdivision of T.15 S.,R.4 W.

chains	
	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 15 S S 23	R 4 W S 24
S 26	S 25

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, rolling, slopes and drains W.

Soil shallow sand and gravel mixed with quartz rock on hard packed sand and rocky sub-soil.

No timber.

Undergrowth, sage, rabbit brush and greasewood.

East, on random resurvey line for distance only, bet. secs. 24 and 25

40.00 Temp. ¼ sec. cor.

80.03 Intersect E. bdy. of the Tp. 15.02 chs. S. of the temp. ¼ sec. cor. on W. bdy. sec.19,T.15 S.,R.3 W. Cor. for secs. 24 and 25 set at this point, for description of same see E. bdy. sec. 25.

Thence from cor. of secs. 23,24,25 and 26

East, resurveying bet. secs. 24 and 25

Gradually ascend over rolling land sloping and draining W., through dense undergrowth of sage and rabbit brush.

19.10 Wire fence, bears N. and S.

30.20 Base of rocky knoll, bears N. and S.

Ascend.

35.20 Enter very scattering scrub cedar and pinon timber, bears NE. and SW.

40.01½ Proportionate measurement.

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in a mound of stone on solid rock for ¼ sec. cor., with brass cap marked

Retracement and resurvey of subdivision of T.15 S.,R.4 W.

chains	
	S 24 ¼
	S 25 1915
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Cor. stands near top of N. slope of knoll, 100 ft. above sec. cor.
	Begin descent over NE. slope into large draw.
44.50	Base of knoll, 50 ft. below top, bears NW. and SE,
	Gradually ascend in mouth of large canyon or draw.
48.60	Large wash in canyon, drs. NW.
66.10	Road, bears NE. and SW.
70.20	Enter heavier scrub cedar timber, bears N. and S.
80.03	The cor. of secs. 24 and 25
	Land, rolling and hilly, general W. exposure and drainage.
	Soil, shallow sand and gravelly, very dry and mixed with quartz rock on gravelly and rocky sub-soil.
	Timber, scrub cedar and pinon.
	Undergrowth, sage and rabbit brush. Fair grazing.

	N.0°10'E., resurveying bet. secs. 23 and 24.
	Gradually ascend over nearly level land sloping W., through undergrowth of sage, rabbit brush and greasewood.
18.60	Wire fence, bears E. and W. A fence line bearing N. from this fence bears W. about 1.00 ch.
18.70	Wood road, bears E. and W.
40.69½	Proportionate measurement.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked
	S 23 ¼ | S 24
	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.

Retracement and resurvey of subdivision of T.15 S.,R.4 W.

chains	
58.20	Road, bears NW. and SE.
58.50	N. end of fence bearing N. and S. bears W. 1.50 chs.
81.39	Restored point for cor. of secs. 13,14,23 and 24.
	Set an iron post, 3 ft. long, 1 in. in dia., 24 ins. in the ground for cor. of secs. 13,14,23 and 24, with brass cap marked
	T 15 S | R 4 W S 14 | S 13 S 23 | S 24 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, general W. exposure and drainage.
	Soil,rich sandy loam mixed with gravel on hard, dry sandy clay sub-soil.
	No timber.
	Undergrowth, sage and rabbit brush.

	East, resurveying bet. secs. 13 and 24.
	Over nearly level land, gradually ascend through undergrowth of short shadscale.
19.80	Wire fence, bears N. and S.
20.70	Wagon road from Juab to Leamington,Utah, bears NW. and SE.; SW. cor. of a wire fence bearing N. and E. bears N. about 25 lks.
	Thence along S. side of fence.
40.00	At point 21 lks. S. of SE. cor. of wire fence, bearing N. and W.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked
	S 13 ¼ S 24 1915
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

Retracement and resurvey of subdivision of T.15 S.,R.4 W.

chains	
	Land, nearly level, slopes and drains W.
	Soil, shallow clay loam, dry and packed hard on sub-soil of same.
	Timber, none.
	Undergrowth, shadscale.

	N.0°01'W., resurveying bet. secs. 13 and 14.
	Gradually ascend over rolling land sloping SW., through short undergrowth of shadscale.
6.90	Old road, bears NE. and SW.
11.50	Wire fence, bears E. and W.
11.70	Wire fence and road from Juab to Leamington,Utah, bears E. and W.
40.58½	Proportionate measurement.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked S 14 | S 13 / 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.
41.81	Wire fence and base of rocky knoll, bears E. and W. Ascend.
46.50	Top of rocky knoll, 110 ft. above ¼ sec. cor., bears E and W. Descend abruptly.
55.90	Wash, 20 lks. wide, 6 ft. deep, course W., also base of knoll, bears E. and SW.
	Thence over broken clay hills.
65.40	Wash, 20 lks. wide, 6 ft. deep, course W.
71.60	Old road, bears E. and W.
74.80	Wire fence in bottom of small draw, draining W., bears E. and W.
81.17	The cor. of secs.11,12,13 and 14.
	Land, S.41.81 chs. nearly level bench, N. 39.36 chs. broken clay hills. S.½ mile S. exposure, N.½ mile

Retracement and resurvey of subdivision of T.15 S.,R.4 W.

chains

General N. exposure. General drainage W.

Soil, S. ½ mile, rich sandy clay loam on sandy sub-soil.

N. ½ mile sticky adobe clay, mixed with gravel and quartz and limestone rock on clay sub-soil.

No timber.

Undergrowth, shadscale.

East, resurveying bet. secs. 12 and 13

Over mountainous land draining NW. through undergrowth of sagebrush and very scattering scrub cedar timber.

7.60 Wash, 20 ft. wide, 4 ft. deep, course NW. Ascend.

12.00 Top of bench and wire fence, 100 ft. above sec. cor., bears N. and S. The cor. of fence bearing E.,W. and N. bears S. about 130 lks.

Thence over nearly level bench. Cultivated land south of line.

40.19 Fall 133 lks. N. of the ¼ sec. cor. which is a quartz stone, 14 x 12 x 6 ins. above ground, firmly set, properly marked. No accessories to cor.

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

S 12
¼
S 13
1915

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

The bearing of this ½ mile is S.88°06'E., and the distance is 40.21 chs.

Cor. stands at cor. of fence bearing S. and W.

Land, broken hills and gently rolling bench, general W. exposure and drainage.

Soil, sandy and gravelly clay loam on dry, hard sub-soil of sand and clay.

Timber, very scattering scrub cedar.

Retracement and resurvey of subdivision of T.15 S.,R.4 W.

chains	
	Undergrowth, shadscale.
	From the cor. of secs. 11,12,13 and 14.
	North, retracing bet. secs. 11 and 12
40.00	No trace of the $\frac{1}{4}$ sec. cor. can be found.
80.00	Fall 32 lks. W. of a point which is the cor. of secs. 1, 2,11 and 12. Point for sec. cor. falls in cultivated field and I am informed by settler owning the land on which cor. falls that he buried post in ground so that he would not disturb its position while harvesting crops. I make excavation for cor. and find pieces of old rotted wood and as this land is irrigated post would rot within a short time.
	The bearing of the line bet. secs. 11 and 12 is therefore N.0°14'E.& the distance is 80.00 chs.
	Thence from cor. of secs. 11,12,13 and 14.
	N.0°14'E., resurveying bet. secs. 11 and 12.
	Gradually descend over rolling land sloping and draining NW., through short undergrowth of shadscale.
10.60	SE. cor. of Leamington Cemetery, bears N.10°W. and W.
21.00	Lynndyl Irrigation Co. canal, 30 lks. wide, 4 ft. deep, course SW.
21.10	Cor. of wire fences bearing E.,W. and N.
	Thence along fence.
40.00	Proportionate measurement.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked S $\frac{1}{4}$ 11 | S 12 1915 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
60.00	Wire fence bears E. and W.
75.00	Cor. of wire fences bearing N.78°E., S.78°W. and S., also Western Union Tel. line, bears N.78°E. and S.78°W.
75.65	Center of SP.LA. and SL. ry tracks, bears N.78°05'E. and S.78°05'W.

Retracement and resurvey of subdivision of T.15 S.,R.4 W.

chains	
76.35	County road, Leamington to Juab, Utah, bears N.78°E. and S.78°W.
76.50	Wire fence and enter cultivated land, bears N.78°E. and S.78°W.
80.00	The 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 15 S | R 4 W	
S 2	S 1
S 11	S 12

1915

	Do not build accessories as cor. falls in alfalfa field.
	Land, rolling, general NW. exposure and drainage.
	Soil stony and clay on southern portion more sandy on northern portion. Sub-soil, sandy and gravelly.
	No timber.
	Undergrowth, shadscale.

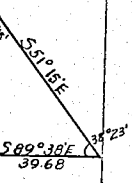
	From cor. of secs. 1,2,11 and 12.
	East, retracing bet. secs. 1 and 12
	Over level cultivated field.
4.40	The NE. cor. of house, bears S.15 lks.
18.50	Wire fence, bears N.78°E. and S.78°W. Leave field.
20.30	Center of Sp. LA. and SL.Ry. tracks, bears N.78°05'E, and S.78°05'W.
22.25	Wire fence and Western Union Tel. line, bears N.78°E. and S.78°W.
29.10	Road, bears NE. and SW. Thence along N. side of another road, bearing E. and W.
39.68	Fall 26 lks. N. of the ¼ sec. cor. which is a blue limestone, 8 x 2 x 4 ins. above ground, firmly set, properly marked but not witnessed.
	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

chains	
	S 1 ¼
	S 12 1915
	Do not build any accessories to cor. as point for same would fall in road.
	The bearing of this ½ mile is S.89° 38'E., and the distance is 39.68 chs.
	From point 26 lks. N. of the ¼ sec. cor., I continue East
	Along N. side of road, bears E. and W.
10.15	Road, bears NE. and W. Enter land cleared for farming bears N. and S.
20.00	Leave land cleared for farming, enter dense sagebrush undergrowth, bears N. and S.
	Thence along base of mountain, bears E. and SW.
27.20	Wash, 30 lks. wide, 8 ft. deep, course N.70°W.
38.55	Lynndyl Irrigation Co. canal, 50 lks. wide, 8 ft. deep, course SW. for about 4 chs. thence W.
	Canal follows along base of mountain, bears NE. and SW.
	Ascend.
40.04	Fall 39 lks. N. of the cor. of secs. 1 and 12 on the E. bdy. of the Tp. heretofore described.
	The bearing of this ½ mile is S.89° 49'E. and the distance is 40.04 chs.
	Land, rolling valley, drains W.
	Soil, sandy loam, gravelly and clay with the exception of the east 15 chs. which is very rocky of red quartz formation. Sub-soil west ½ mile sandy, east ½ mile very dry clay, gravelly and rocky.
	No timber.
	Undergrowth, sagebrush.

	From the cor. of secs. 1,2,11 and 12
	North, bet. secs. 1 and 2

Retracement and resurvey of subdivision of T.15 S.,R.4 W.

chains	
	It is impracticable to chain this line north on account of sloughs, boggy ground and the Sevier river, I therefore triangulate as follows:
	From the cor. of secs. 1,2,11 and 12, the ¼ sec. cor. bet. secs. 1 and 12 bears S.89° 38'E., 39.68 chs.
	I now place instrument on line bet. secs. 1 and 2 on the north side of Sevier river, from which point the ¼ sec. cor. bet. secs. 1 and 12 bears S.51° 15'E.
	From the ¼ sec. cor. the point on N. side of river bears N.51° 15 'W., therefore
	Log 39.68 = 1.598572 Logsin 38°23' = 9.793035 Cologsin 51°15' = 0.107970
	Log 1.499577 = 31.59
31.59	To point of triangulation.
	The approximate topography on this line from the cor. of secs. 1,2,11 and 12 is
	Over level land across cultivated field.
10.00	Clay bank about 10 ft. high, bears NW. and SE.
15.00	Head of slough bears NE. and SW. Dense willow undergrowth around edge of slew.
20.00	Leave slough, bears NW. and SE.
24.50	Sevier river, about 2 chs. wide, muddy water, 3 to 5 ft. deep, swift current, course SW.
	Leave cultivated land, enter sagebrush undergrowth and scattering scrub cedar timber, bears E. and W.
28.00	Base of mountain, bears E. and W. Canal. 20 lks. wide, water 2 ft. deep, course W.
	Ascend abruptly over rough broken S. slope of mountain.
33.80	Begin ascent over broken gray quartz ledges, bears N.70°E. and S.70°W.
39.21	Fall 2 lks. W. of the ¼ sec. cor. which is a gray quartz stone, 8 x 8 x 8 ins. above ground, firmly set, properly marked. No accessories to cor.
	Set an iron post, 3 ft. long, 1 in. in dia., 14 ins. in the ground on solid rock and 12 ins. in a mound of



Retracement and resurvey of subdivision of T.15 S.,R.4 W.

chains

stone alongside old cor. for ¼ sec. cor., with brass cap marked

S ¼ 2 | S 1

1915

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

No suitable trees available.

The bearing of this ½ mile is N.0°02'E., and the distance is 39.21 chs.

Cor. stands on steep S. slope of mountain, 230 ft. above river.

Land, S. 28.00 chs. nearly level land, remainder of ½ mile rough broken mountains, general S. exposure and drainage to river which flows W.

Soil, S. 28.00 chs. rich sandy loam on sub-soil of same. N.11.21 chs. rocky of quartz formation on rocky sub-soil.

Timber, very scattering scrub cedar on N. 14.71 chs.

Undergrowth, sagebrush and willow.

To eliminate a large closing error in sec. 2, I measure the line bet. secs. 2 and 11 and find length of same to be 80.12 chs.

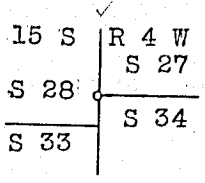
The cor. of secs. 27,28,33 and 34 is a cedar post, 4 ins. square, extending 36 ins. above ground, firmly set and not marked. Alongside this post, lying on the ground is the old post cor., greatly decayed and bearing evidence of having been marked and sharpened at one end.

At the exact position of old cor.,

Retracement and resurvey of subdivision of T.15 S.,R.4 W.

chains

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground and bury old post alongside for cor. of secs. 27 and 34 (knowing that a closing cor. will be necessary for secs. 28 and 33) with brass cap marked



1915

dig pits, 36 x 36 x 12 ins., NE. and SE. of post, 6 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, E. of cor.

No trees suitable for bearing trees available.

Thence

South, retracing bet. secs. 33 and 34

40.00 No trace of the $\frac{1}{4}$ sec. cor. can be found.

80.24 Fall 68 lks. E. of the restored St. cor. of secs. 33 and 34 on the S. bdy. of the Tp. heretofore described.

The bearing of this mile is N.0° 29'E., and the distance is 80.24 chs.

Thence from St. cor. of secs. 33 and 34

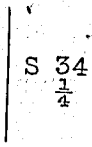
N.0° 29'E., resurveying bet. secs. 33 and 34.

Over nearly level land through dense short undergrowth of shadscale. A wire fence bearing N. and S. is about 1.25 chs. E. of line.

20.80 Wire fence, bears E. and W. The N. and S. fence intersects this fence about 1.25 chs. E.

40.12 Proportionate measurement

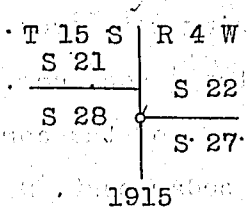
Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. on the W. bdy. sec. 34, with brass cap marked



1915

chains	
	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.
45.00	Road, bears E. and W.
51.70	Road, bears N.70°E. and S.70°W.
60.30	Wire fence, bears E. and W.
80.24	The cor. of secs. 27 and 34.
	Land, nearly level.
	Soil, sandy loam, on hard, dry sandy sub-soil.
	No timber,
	Undergrowth, shadscale.

	From the cor. of secs. 27 and 34,
	North, retracing bet. secs. 27 and 28.
40.00	No trace of the ¼ sec. cor. can be found.
82.27	Fall 86 lks. E. of the cor. of secs. 21,22,27 and 28 which is a cedar post, 2 ins. square, 36 ins. long, lying on the ground, post is weather worn and greatly decayed but traces of marks on same are visible.
	At exact position of old cor.
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground and set old post cor. alongside for cor. of secs. 22 and 27 (knowing that a closing cor. will be necessary for secs. 21 and 28) with brass cap marked



	dig pits, 36 x 36 x 12 ins., NE. and SE. of post, 6 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, E. of cor.
	No suitable trees available for bearing trees.
	The bearing of this mile is S.0°36'E., and the distance is 82.27 chs.
	Thence from cor. of secs. 22 and 27

Retracement and resurvey of subdivision of T.15 S.,R.4 W.

chains	
	S.0°36'E., resurveying bet. secs. 27 and 28
	Over rolling sand hills through undergrowth of sage and greasewood and scattering scrub cedar and pinon pine.
31.45	Wire fence, bears NE. and SW.
41.13½	Proportionate measurement.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. on the W. bdy. sec. 27, with brass cap marked S 27 ¼ 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, E. of cor.
49.10	Wood road in slight depression, bears NE. and SW.
51.35	Wire fence, bears E. and W.
60.20	Wood road, bears N.70°E. and S.70°W.
61.80	Wire fence, bears E. and W.
82.27	The cor. of secs. 27 and 34.
	Land, low rolling sand hills.
	Soil, loose sand on sandy sub-soil.
	Timber, scrub cedar and pinon.
	Undergrowth, sagebrush and greasewood.

	From cor. of secs. 22 and 27
	North, retracing bet. secs. 21 and 22
40.00	No trace of the ¼ sec. cor. can be found.
82.19	Fall 105 lks. W. of the cor. of secs. 15,16,21 and 22 which is a cedar post, 2 ins. square, extending 24 ins. above ground, firmly set, and properly marked.
	No accessories to cor.
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground alongside old cor. for cor. of secs. 15,16, 21 and 22, with brass cap marked

Retracement and resurvey of subdivision of T.15 S.,R.4 W.

chains	
	T 15 S | R 4 W S 16 | S 15 S 21 | S 22 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.
	No suitable trees available for bearing trees.
	The bearing of this mile is S.0° 44'W., and the distance is 82.20 chs.
	Thence from cor. of secs. 15,16,21 and 22
	S.0° 44'W., resurveying bet. secs. 21 and 22
	Over low rolling sand hills through dense undergrowth of sagebrush and greasewood and scattering scrub cedar timber.
3.18	Road, bears NW. and SE.
4.30	The SW. cor. of a wire fence bearing N. and E. bears E. about 1 ch.
32.80	Wood road, bears NW. and SE.
41.10	Proportionate measurement.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. W. bdy. sec. 22, with brass cap marked S 22 ½ 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, E. of cor.
	No suitable trees available.
71.30	Wood road, bears NE. and SW.
82.20	The cor. of secs. 22 and 27
	Land, rolling sand hills.
	Soil, loose sand on sandy sub-soil.
	Timber, scattering scrub cedar.
	Undergrowth, sagebrush and greasewood.

Retracement and resurvey of subdivision of T.15 S.,R.4 W.

chains	
	From cor. of secs. 15,16,21 and 22
	North, retracing bet. secs. 15 and 16.
40.00	No trace of the ¼ sec. cor. can be found.
79.98	Fall 12 lks. E. of the cor. of secs. 9,10,15 and 16 which is a cedar post, 5 ins. square, extending 36 ins. above ground with traces of marks on same. No accessories to cor. I am informed by old settlers owning land adjacent to this cor. that this is not the old post cor. originally set for sec. cor. and that same has decayed and that the present post was set to mark the point of the old cor.
	The bearing of this mile is S.0° 05'E. and the distance is 79.98 chs.
	Thence from the cor. of secs. 9,10,15 and 16.
	S.0°05'E., resurveying bet. secs. 15 and 16.
	Over rolling sandy land, through undergrowth of sagebrush and greasewood.
.15	Road, bears E. and W. Road from the south joins this road about 25 lks. E.
	Thence along road.
20.20	NE. cor. of wire fence bearing W. and S., bears W. 5 lks.
39.99	Proportionate measurement.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked S ¼ 16 | S 15 1915
	As cor. falls alongside road, I do not build accessories.
40.20	SE. cor. of wire fence bearing N. and W. bears W. 12 lks.
48.70	Center of bridge across Lynndyl Irrigation Co. canal. Canal 40 lks. wide, 5 ft. deep, course W. about 3 chs. thence SW.
	Enter hilly land and scattering scrub cedar timber, bears E. and W.
54.15	Road, bears NE. about 1.50 chs. thence N. and SW.

chains	
79.98	The cor. of secs. 15,16,21 and 22.
	Land, northern portion mile rolling, southern portion hilly. General N. exposure and drainage.
	Soil, loose, red sand on sandy sub-soil.
	Undergrowth, sagebrush and greasewood.
	Timber, scrub cedar.

	The cor. of secs. 16,17,20 and 21 is a quartzite stone, 8 x 5 x 6 ins. above ground, firmly set and properly marked. No accessories to cor.
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground alongside old cor. for cor. of secs. 16,17, 20 and 21, with brass cap marked
	T 15 S. | R 4 W. S 17 | S 16 --- S 20 | S 21 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.
	Thence
	North, retracing bet. secs. 16 and 17.
40.00	No trace of the ¼ sec. cor. can be found.
79.96	Intersect the cor. of secs. 8,9,16 and 17 which is a limestone, 6 x 6 x 8 ins. above ground, firmly set, properly marked and witnessed.
	The bearing of this line is North and the distance is 79.96 chs.
	Thence from cor. of secs. 16,17,20 and 21
	North, resurveying bet. secs. 16 and 17.
	Over gently rolling land sloping and draining N., through short undergrowth of shadscale.
9.70	Road, bears NE. and SW.
30.00	Road, bears NE. 1.00 ch. thence N. and SW.
31.00	Lynndyl Irrigation Co. canal, 50 lks. wide, 6 ft. deep, course SW.

chains	
	Thence in lane, cultivated fields on both sides of line.
39.98	Proportionate measurement.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked S 17 $\frac{1}{4}$ | S 16 1915
	Cor. falls at N. edge of road, I therefore do not build any accessories.
79.60	Road, from Leamington to Lynndyl, Utah, bears E. and W., also junction of lane from the south.
79.96	The cor. of secs. 8,9,16 and 17.
	Land, gently rolling, general N. exposure and drainage.
	Soil, light, dry, sandy clay loam on hard dry clay sub-soil.
	Undergrowth, shadscale.
	No timber.

	From the cor. of secs. 8,9,16 and 17.
	East, resurveying bet. secs. 9 and 16
	Over gently rolling land through dense undergrowth of sagebrush and shadscale. Line follows along S. side of fence and N. side of road, bearing E. and W.
40.10	Fall 5 lks. N. of the $\frac{1}{4}$ sec. cor. which is a limestone, 3 x 4 x 6 ins. above ground, firmly set, and properly marked. No accessories to cor.
	Set an iron post, 3 ft. long,1 ins. in dia., 26 ins. in the ground alongside old cor. for $\frac{1}{4}$ sec. cor., with brass cap marked S 9 $\frac{1}{4}$ S 16 1915
	Cor. stands at SW. cor. of fence bearing N. and E. and on N. side of road. Impracticable to build accessories at this cor. on account of improvements.

chains	
	The bearing of this ½ mile is S. 89° 56'E., and the distance is 40.10 chs.
	From ¼ sec. cor., I continue East
	Continue along S. side of wire fence and N. side of road.
56.00	Road, bears NE. and SW. The SE. cor. of wire fence bearing N. and W. bears N. 10 lks.
65.40	Enter rolling sand hills and scattering scrub cedar timber bears NE. and SW.
79.40	Road, bears NW. and S.85°E.
80.55	Fall 18 lks. S. of the cor. of secs. 9,10,15 and 16. Cor falls on top of low sand hill.
	The bearing of this ½ mile is N.89° 45'E. and the distance is 40.45 chs.
	Land, rolling, general N. exposure and drainage.
	Soil, loose red sand and yellow clay on sandy sub-soil.
	Timber, a few scattering scrub cedar on eastern portion of mile.
	Undergrowth, sagebrush.

The cor. of secs. 19,20,29 and 30 is a cedar post, 4 ins. in dia., extending 12 ins. above ground, firmly set and marked S E cor 19 on NW. face. Cor stands in center of road and has no accessories. I make search but am unable to find any trace of marked stone. I am informed by Geo. Anderson, settler living in this vicinity that the stone sec. cor. originally stood at this point but same has been carried away.

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground alongside post cor. for cor. of secs. 19, 20,29 and 30, with brass cap marked

T 15 S | R 4 W
S 19 | S 20

S 30 | S 29

1915

Do not build accessories.

Retracement and resurvey of subdivision of T.15 S.,R.4 W.

chains	
	From this cor., granary bears N.33° 25'E. another granary bears N.78° 43'E. Distances about 50 and 40 chs. respectively.
	Thence,
	South, retracing bet. secs. 29 and 30
	Over nearly level land along center of road. Wire fences bearing N. and S. are 50 lks. E. and W. of line.
.85	Road, bears N.1°W. and S.1°E.
13.30	Road, bears NE. and SW.
20.00	SW. cor. of wire fence bearing N. and E., bears E. 50 lks. The SE. cor. of a fence bearing N. and W. bears W. 50 lks.
29.00	Enter rolling sand hills, scattering scrub cedar timber and high undergrowth of sagebrush.
40.00	No trace of the ¼ sec. cor. can be found.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked
	S 30 ¼ | S 29
	1915
	from which
	A cedar, 10 ins. diam.,bears S. 24°E., 149 lks. dist., marked ¼ S 29 B T
	A cedar, 12 ins. diam.,bears N.87°W., 222 lks. dist., marked ¼ S 30 B T
	Land, level and rolling sand hills.
	Soil, sandy, loose and dry on sandy sub-soil.
	Timber, scattering scrub cedar.
	Undergrowth, sagebrush.

	From cor. of secs. 19,20,29 and 30
	East, retracing bet. secs. 20 and 29
	Over level cultivated land.
.50	Wire fence, bears N. and S.
20.00	Leave cultivated land, bears N. and S. The NW. cor. of fence bearing E. and S. on line. Thence along fence.
33.60	Canal, 40 lksl wide, 4. ft. deep, course SW.

Retracement and resurvey of subdivision of T.15 S.,R.4 W.

chains	
40.06	Fall 11½ lks. S. of the SE. cor. of a wire fence bearing N. and W. I am informed by Geo. Anderson, who owns land in this vicinity that the cor. of the fence is the point for the ¼ sec. cor. and that the stone cor. has been carried away.
	I remonument cor. as follows:
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked
	S 20 / ¼ / 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, 3½ ft. base, 1½ ft. high, N. of cor.
	The bearing of this ½ mile is N.89° 50'E., and the distance is 40.06 chs.
	Land, level.
	Soil, loose sand on sandy sub-soil.
	Timber, a few scattering cedar on E. 5 chs.
	Undergrowth, sagebrush.

	From the Witness cor. to c or. of secs. 19 and 30 on the W. bdy. of the Tp. heretofore described I run
	East, on offset line (1.04 chs. N. of true line) bet. secs. 19 and 30 retracing and resurveying.
	Across Sevier river by direct measurement, river 1.50 chs. wide, 3 to 5 ft. deep, clear water, flows SW.
2.10	Offset South 1.04 chs. to true line, and top of bluff on left bank of river, 50 ft. high, bears N. and SW.
	Thence over rolling land through dense undergrowth of sagebrush and greasewood.
20.30	Wire fence, bears N. and S.
40.90	Wire fence, bears N. and S.
42.93	Fall 92 lks. N. of the ¼ sec. cor., which is a limestone

Retracement and resurvey of subdivision of T.15 S.,R.4 W.

chains

7 x 5 x 8 ins. above ground, firmly set, properly marked but not witnessed.

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

S 19 / ¼ / 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.

The bearing of this ½ mile is S.88° 46'E., and the distance is 42.94 chs.

From ¼ sec. cor., I continue

East

63.00 Enter cultivated land, bears N. and S.

77.20 Leave cultivated land, bears N. and S.

78.00 Wire fence, bears N.89°W. and S.89°E.

82.94 Fall 6 lks. N. of the cor. of secs. 19,20,29 and 30.

The bearing of this ½ mile is S.89°55'E., and the distance is 40.00 chs.

Land, level and gently rolling.

Soil, sandy loam and light brown sandy clay on sandy sub-soil.

No timber.

Undergrowth, sagebrush and greasewood.

Third Standard Parallel South, through Range 4 West.

The St. cor. of secs. 35 and 36 is an oak stake, 2 ins. square, 24 ins. long, lying on the ground in a small mound of stone, traces of marks on post.

At exact postion of old cor.,

Third Standard Parallel South, through Range 4 West.

chains	
	Set an iron post, 3 ft. long, 3 ins. in dia., 18 ins. in the ground on solid rock and 6 ins. in a mound of stone and stand. old post cor. alongside for St. cor. of secs. 35 and 36, with brass cap marked T 15 S R 4 W S 35 | S 36 1915 and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Thence
	East, on S. bdy. sec. 36
	Note: As only one set of chainmen is available I cause all distances and angles to be double checked
	Over rough mountainous land draining N., through scattering scrub cedar timber and dense undergrowth of sage-brush.
	Descend abruptly over E. slope.
2.80	Base of steep descent, bears N. and S.
	Gradually descend to bottom of draw.
5.80	Bottom of draw, 75 ft. below cor., drains N.
	Ascend abruptly over rocky and ledgy W. slope of spur.
34.40	Top of rocky ridge spur; 980 ft. above draw, projects N. about 20.00 chs.
	Descend abruptly over ledgy E. slope.
40.00	On steep E. slope, 190 ft. below ridge
	Set an iron post, 3 ft. long, 1 in. in dia., 13 ins. in the ground to solid rock and 13 ins. in a mound of stone for St. ¼ sec. cor., with brass cap marked S C ¼ S 36 1916 raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	No suitable trees available.
	Continue steep descent.
43,00	Bottom of ravine, 100 ft. below ¼ sec. cor., course N.

Third Standard Parallel South, through Range 4 West.

chains	
	Ascend abruptly over ledges.
55.30	Top of rocky spur, 470 ft. above ravine, projects N.20°W.
	Leave timber, bears N. and S.
	Descend abruptly over E. slope.
69.00	Bottom of ravine and wash, 20 lks. wide, 1½ ft. deep, 310 ft. below spur, course N.20°W.
	Ascend abruptly.
74.70	Enter dense patch of cedar timber, bears N. and S.
75.50	Leave timber, bears N. and S.
79.07	Intersect random E. bdy. of the Tp. 17.58 chs. South of the temp. ¼ sec. cor. set on the W. bdy. of sec. 31, T.15 S.,R.3 W. heretofore described.
	At intersection,
	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in a mound of stone and earth on solid rock for cor. of Tps. 15 and 16 S., R. 4 W., with brass cap marked

T 15 S
R 4 W
S 36

S 1
T 16 S

1916

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

Cor. stands on W. slope 150 ft. above ravine.

Land, rough broken mountains with steep rocky E. and W. slopes of spurs into ravines draining N.

Soil, rocky of red quartz formation on rocky sub-soil.

Timber, scattering scrub cedar.

Undergrowth, sagebrush. Fair grazing.

Subdivision of T.15 S.,R.4 W.

From the cor. of secs. 25,26,35 and 36,

East, on a random line bet. secs. 25 and 36

40.00	Set temp. ¼ sec. cor.
79.48	Intersect random E. bdy. of the Tp. 16.52 chs. S. of the

Subdivision of T.15 S.,R.4 W.

chains	
	temp. ¼ sec. cor. set on the W. bdy. sec. 30, T.15 S., R.3 W. heretofore described. Cor for secs. 25 and 36 falls at this point, see E. bdy. of this Tp.
	Thence
	West, on true line bet. secs. 25 and 36
	Over rough mountainous land draining W., through dense undergrowth of sagebrush and very scattering scrub cedar timber.
	Descend across large basin.
26.50	Wash, 40 lks. wide, 5 ft. deep, in bottom of large basin, 115 ft. below sec. cor., drains SW.
	Ascend abruptly.
26.80	Begin ascent over ledges, bears NE. and SW.
28.20	Top of spur, 125 ft. above wash, projects SW.
	Descend abruptly over ledges.
33.10	Leave ledges, bears N.10°W. and S.10°E.
37.30	Base of spur and enter rolling foothills and valley, 310 ft. below spur, bears N.10°W. and S.10°E.
39.49	Set an iron post, 3 ft. long, 1 in. in dia., 13 ins. in the ground on solid rock and 13 ins. in a mound of stone for ¼ sec. cor., with brass cap marked S 25 ¼ S 36 1916 raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	From this ¼ sec. cor. the chimney on Andrew Johnsons cabin, bears N.30° 49'W.
41.10	Wash, 25 lks. wide, 3 ft. deep, course NW.
47.30	Wash, in small gully, 10 lks. wide, 2 ft. deep, course N.20°W.
79.49	The cor. of secs. 25,26,35 and 36.
	From this cor. chimney on Andrew Johnsons cabin, bears N.32° 20'E.
	Land, E.½ mile rough broken mountains; W.½ mile rolling

t Subdivision of T.15 S.,R.4 W.

chains	
	foot hills. General W. exposure and drainage. Soil, rocky of quartz formation in the E.½ mile, gravelly and stony in the W.½ mile. Sub-soil, rocky. Timber, a few scattering scrub cedar. Undergrowth, sagebrush.

	From the ¼ sec. cor., bet. secs. 13 and 24 East, bet. secs. 13 and 24. Gradually ascend over rolling foot hills draining W., through dense undergrowth of sagebrush.
5.00	Base of mountain and enter very scattering scrub cedar timber, bears N. and S. Ascend abruptly.
19.80	Top of spur, 220 ft. above ¼ sec. cor., projects S. Descend
29.60	Bottom of descent and wash in large draw, 75 ft. below spur, course SW. Gradually ascend.
39.90	Intersect random E. bdy. of the Tp. 13.50 chs. S. of the temp. ¼ sec. cor. on W. bdy. of sec. 18, T.15 S., R.3 W. heretofore described. Cor. of secs. 13 and 24 set at this point, for description of same see E. bdy. of sec. 24. Land, W. 5 chs. hilly, E. 34.90 chs. rough mountains, general W. exposure and drainage. Soil, gravelly and rocky of red quartz formation on gravelly and rocky sub-soil. Timber, a few scattering scrub cedar and pinon. Undergrowth, sagebrush.

	From the ¼ sec. cor. bet. secs. 12 and 13, East, bet. secs. 12 and 13. Gradually ascend over rolling land in mouth of large wide canyon draining W., through dense undergrowth of sagebrush and greasewood.

chains	
13.00	Wash, 30 lks. wide, 2 ft. deep, course SW.
33.55	Wash, 30 lks. wide, 3 ft. deep, course SW.
39.80	Intersect random E. bdy. of the Tp. 13.56 chs. south of the temp. ¼ sec. cor. on the W. bdy. of sec. 7, T.15 S.,R.3 W. heretofore described. Cor. of secs. 12 and 13, set at this point, for description of same see E. bdy. of sec. 13.
	Land, rolling, slopes and drains W.
	Soil, gravelly and shallow clay loam on gravelly sub-soil.
	Timber, very scattering scrub cedar and pinon on both sides of line.
	Undergrowth, sagebrush and greasewood.

	From the ¼ sec. cor. bet. secs. 1 and 2
	North, on true line bet. secs. 1 and 2.
	Over rough broken mountainous land, through scattering scrub cedar and pinon timber and undergrowth of sage-brush.
	Ascend abruptly over broken quartz ledges.
3.60	Sharp rocky point of ledges, 200 ft. above ¼ sec. cor., falls E.
	Thence along perpendicular ledges on E. slope.
7.00	Slope changes to SE. Very rocky.
18.00	Slope changes to S. Timber becomes more dense, bears E. and W.
22.00	Sharp rocky spur,530 ft. above ¼ sec. cor., projects SE.
	Thence across head of wide gulch, drains SE.
31.30	Top of ridge, 165 ft. above spur, bears NE. and SW.
	Leave dense timber, bears NE. and SW. Descend abruptly over NW. slope 140 ft. to
38.77	Intersect N. bdy. of the Tp., 8.85 chs. west of the cor. of secs. 1,2,35 and 36, which is an iron post, 3 ins. in dia., firmly set 24 ins. in a mound of stone, marked and witnessed as described by the surveyor general.
	At intersection,

Subdivision of T.15 S.,R.4 W.

chains

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a mound of earth and stone on solid rock for closing cor. of secs. 1 and 2, with brass cap marked

T 14 S R 4 W
S 35

S 2 | S 1
T 15 S | R 4 W

CC
1916

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

No suitable trees available.

Note: I destroy all marks on old cor. of secs. 1,2,35 and 36 that pertain to secs. 1 and 2.

Land, rough broken mountains, S. exposure on S. 31.30 chs. NW. exposure on N. 7.47 chs. General drainage S.

Soil, very rocky of gray quartz formation on rocky sub-soil.

Timber, scrub cedar and pinon.

Undergrowth, sagebrush.

From the ¼ sec. cor., bet. secs. 29 and 30

South, on random line bet. secs. 29 and 30

17.21 N. edge of reservoir bears NW. and SE. To determine distance across reservoir triangulate as follows:

Set flag on south side of resevoir and then measure base line S.45°E. 6.52 chs. to a point whence flag bears S.32° 14'W. From flag, east end of base bears N.32°14' E.

Log 6.52 = 0.814248
Log sin 102°46' = 9.989128
Cologsin 32°14' = 0.272973
Log 1.076349 = 11.92 chs. which added to 17.21 chs. gives

29.13 To S. side of reservoir.

40.00 Set temp. cor. of secs. 29,30,31 and 32.

Thence from temp. cor.

West, on random line bet. secs. 30 and 31

Subdivision of T.15 S., R.4 W.

Chains.

40.00 Set temp. ¼ sec. cor.

83.24 Fall 5.77 chs. N. of the cor. of secs. 25, 30, 31, and 36 on the W. bdy. of the Tp., heretofore described.

Thence from cor. of secs. 25, 30, 31, and 36,

East on true line bet. secs. 30 and 31,

Over low rolling sand hills; through dense undergrowth of sagebrush.

.65 Canal, 15 lks. wide, 4 ft. deep, course S.

1.30 Road, bears N. and S.

13.80 Enter scattering scrub cedar timber bears NE. and SW.

17.60 Enter soft boggy ground, bears NE. and SW.

25.50 Leave boggy ground, bears NE. and SW.

26.00 Road bears NE. and SW.

26.80 Lynndyl Irrigation Co. canal, 50 lks. wide, 3 ft. deep, course SW.

36.00 Enter dense scrub cedar timber, bearing N. and S.

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

S 30
¼
S 31
1915

from which

A cedar 36 ins. diam., bears S. 59° 45' E. 279 lks. dist., marked ¼ S 31 B T

A cedar, 24 ins. diam., bears N. 6° 45' E. 181 lks. dist., marked ¼ S 30 B T

83.24 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 15 S R 4 W
S. 30 | S. 29
S 31. | S 32

1915

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.

Chains.

No suitable bearing trees available.

Land, rolling sand hills.

Soil, loose sand on sandy subsoil.

Timber, scrub cedar.

Undergrowth, sagebrush.

North on true line bet. secs. 29 and 30,

Over rolling sand hills through scattering scrub cedar timber and dense undergrowth of sagebrush.

23.56 S. side of reservoir covering about 6 acres of ground, bearing NW. and SE.

Point of triangulation.

40.48 N. side of reservoir, bearing NW. and SE.

42.70 Lynndyl Irrigation Co. canal, 50 lks. wide, 4 ft. deep, course SW.

45.77 The ¼ sec. cor.

Land, rolling sand hills.

Soil, loose sand on sandy subsoil.

Timber, scattering scrub cedar.

Undergrowth, sagebrush.

From cor. of secs. 29, 30, 31, and 32,

South on random line bet. secs. 31 and 32,

40.00 Set temp. ¼ sec. cor.

79.66 Intersect S. bdy. of Tp. 2. 46 chs. N. 89°19' E. of the cor. of secs. 5 and 6, N. bdy. T. 16 S., R. 4 W., heretofore described.

At intersection,

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for closing cor. of secs. 31 and 32, with brass cap marked

T 15 S
S 31 | S 32
R 4 W ——— C | C
S 6 | S 5
T 16 S

1915

Subdivision of T.15 S.,R.4 W.

chains	
	dig pits, 24 x 18 x 12 ins., crosswise on each line, E. and W. 3 ft. and N. of post, 7 ft. dist.; raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.
	Thence
	North, on true line bet. secs. 31 and 32
	Over rolling sand hills through dense undergrowth of sagebrush and scattering scrub cedar timber.
22.10	Road, bears NE. and SW.
39.83	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked S 31 | S 32 ¼ 1915 from which A cedar, 18 ins. diam.,bears S.43¼°E., 160 lks. dist., marked ¼ S 32 B T A cedar, 24 ins. diam.,bears N.17°W., 437 lks. dist., marked ¼ S 31 B T
79.66	The cor. of secs. 29,30,31 and 32.
	Land, rolling sand hills.
	Soil, loose red sand on sandy sub-soil.
	Timber, scattering scrub cedar and pinon.
	Undergrowth, sagebrush.

	From the ¼ sec. cor. bet. secs. 20 and 29
	East, on random line bet. secs. 20 and 29.
40.00	Set temp. cor. of secs. 20,21,28 and 29.
	Thence from temp. cor.
	North, on random line bet. secs. 20 and 21
40.00	Set temp. ¼ sec. cor.
79.80	Fall 32 lks. W. of the cor. of secs. 16,17,20 and 21.
	Thence from cor. of secs. 16,17,20 and 21
	South, on true line bet. secs. 20 and 21
	Over gently rolling land through dense undergrowth of shadscale.
5.65	Road, bears NW. and SE.

Subdivision of T.15 S.,R.4 W.

chains	
10.10	Enter low rolling sand hills, scattering scrub cedar timber and undergrowth of sagebrush, bears E. and W,
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 S 20 | S 21 1915 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	No suitable trees available.
44.85	Wood road, bears E. and NW.
76.45	Wood road, bears NW. and SE.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 20,21,28 and 29, with brass cap marked T 15 S | R 4 W S 20 | S 21 S 29 | S 28 1915 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.
	No suitable trees available.
	Land, rolling.
	Soil, rich coarse sand, loose and dry on sandy sub-soil.
	Timber, scattering scrub cedar and pinon.
	Undergrowth, sagebrush and shadscale.

	N.89° 43'W., on true line bet. secs. 20 and 29
	Over low rolling sand hills through scattering scrub cedar timber and dense undergrowth of sagebrush.
27.30	Branch of Lynndyl Irrigation Co. canal, 40 lks. wide, 4 ft.deep, course S.
28.20	Road, bears N. and S.
34.30	Irrigation ditch from canal, 20 lks. wide, 3 ft. deep, course SW.

Subdivision of T.15 S., R.4 W.

Chains.	
40.32	The ¼ sec.cor.bet.secs.20 and 29.
	Land, rolling sand hills.
	Soil, rich, loose, coarse sand, on sandy subsoil.
	Timber, scrub cedar and pinon.
	Undergrowth, sagebrush.
	From the cor.of secs.29,30,31, and 32,
	East, on a random line bet.secs.29 and 32,
40.00	Set temp.¼ sec.cor.
80.00	Set temp.cor.of secs.28,29,32, and 33.
	Thence from temp.cor.
	North on random line bet.secs.28 and 29,
40.00	Set temp.¼ sec.cor.
85.77	Fall 36 lks.W.of the cor.of secs.20,21,28, and 29.
	Thence from cor.of secs.20,21,28 and 29,
	South, on true line bet.secs.28 and 29,
	Over rolling sand hills; through dense undergrowth of sagebrush and scattering scrub cedar timber.
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

$$\frac{S\ 29}{\frac{1}{4}} \Big| S\ 28$$

1915

from which

A cedar, 24 ins.diam., bears N.4° 45'W.366 lks. dist., marked ¼ S 29 B T

No other bearing trees available,

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.

85.77	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 cap marked

Subdivision of T.15 S., R.4 W.

Chains.

T 15 S R 4 W
S 29 | S 28
S 32 | S 33
1915

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.

No suitable bearing trees available.

Land, rolling sand hills.

Soil, rich, loose, coarse sand on sandy subsoil.

Timber, scattering scrub cedar.

Undergrowth, sagebrush.

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

Over rolling sand hills; through scattering undergrowth of sage and rabbit brush, and scrub cedar timber.

40.18 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 29
S 32
1915

from which

A cedar, 27 ins. diam., bears N.3° E. 36 lks. dist. marked ¼ S 29 B T

A cedar, 24 ins. diam., bears S.87° E. 87 lks. dist. marked ¼ S 32 B T

44.10 Branch of Lynndyl Irrigation Co. canal, 30 lks. wide, 4 ft. deep, course S.30° W.

45.90 Road, bears N.30° E., and S.30° W.

80.36 The cor. of secs. 29, 30, 31 and 32.

Land, rolling sand hills.

Soil, rich, coarse, loose sand on sandy subsoil.

Timber, scrub cedar.

Undergrowth, sage and rabbit brush.

Subdivision of T.15 S., R.4 W.

Chains.

From cor. of secs. 28, 29, 32, and 33,

South on random line bet. secs. 32 and 33,

40.00 Set temp. ¼ sec. cor.

79.49 Intersect S.bdy. of Tp. 1. 61 chs. N. 89° 44' E. of the cor. of secs. 4 and 5 T.16 S., R.4 W., heretofore described.

At intersection,

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

T 15 S
S 32 | S 33
C | C
R 4 W ——————
S 5 | S 4
T 16 S
1915

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

No suitable bearing trees within limits.

Thence

North on true line bet. secs. 32 and 33,

Over rolling sand hills; through dense undergrowth of sage and rabbit brush and scattering scrub cedar timber.

6.95 Fool Creek Wash, 10 lks. wide, 2 ft. deep, in large swale, course SW.

37.20 Wire fence bears N. 20° E., and S. 20° W.

39.49 Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor. sec. 32 only, with brass cap marked

S ¼ 32
1915

from which

A cedar 32 ins. diam., bears S. 17° 30' W. 20 lks. dist., marked ¼ S 32 B T

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground, for ¼ sec. cor. sec. 33 only, with brass cap marked

S ¼ 33
1915

Chains. from which

A cedar 32 ins. diam., bears N.6° 35'E.261 lks. dist., marked ¼ S 33 B T

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

Land, rolling sand hills.

Soil, richm loose, coarse sand on sandy subsoil.

Timber, scattering scrub cedar.

Undergrowth, sage and rabbit brush.

East on random line bet. secs. 28 and 33,

40.00 Set temp. ¼ sec. cor.

80.57 Intersect W. bdy. of Sec. 34 1.28 chs. S.0° 29'W. of the cor. of secs. 27 and 34. At intersection,

Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for closing cor. of secs. 28 and 33, with brass cap marked

T 15 S R 4 W
S 28 | S 27
CC
S 33 | S 34
1915

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

West on true line bet. secs. 28 and 33,

Over rolling sand hills; through dense undergrowth of sage and rabbit brush.

11.40 Fence line bears N. and S. Enter scattering scrub cedar.

23.40 Wire fence bears N.40° E., and S.40° W.

40.00 Set hewed cedar post, 4 x 4 ins., 3 ft. long, 24 ins. in the ground for ¼ sec. cor. sec. 33 only, marked ¼ S 33 on S. face; from which

A cedar 32 ins. diam., bears S.22° 08'W. 127 lks. dist., marked ¼ S 33 B T

40.57 Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor. sec. 28 only, with brass cap marked

Subdivision of T.15 S., R.4 W.

Chains.

$\frac{S\ 28}{\frac{1}{4}}$

1915

from which

A cedar 32 ins.dia., bears N.17° 30'E. 180 lks. dist., marked $\frac{1}{4}$ S 28 B T

48.70 Timber and undergrowth becomes very scattering, bears N. and S.

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

Land, rolling sand hills.

Soil, rich, loose, coarse sand on sandy subsoil.

Timber, scattering scrub cedar.

Undergrowth, sage and rabbit brush.

From the cor.of secs.20,21,28, and 29,

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

40.00 Set temp.$\frac{1}{4}$ sec.cor.

79.66 Intersect W.bdy.Sec.22, 2.20 chs.N.0° 44'E.of the cor. of secs.22 and 27.

At intersection,

Set an iron post, 3 ft.long, 2 ins.in dia., 24 ins.in the ground for closing cor.of secs.21 and 28, with brass cap marked

T 15 S R 4 W
S 21 | CC
S 28 | S 22
S 27
1915

Dig pits 24 x 16 x 12 ins.crosswise on each line N.and S. 3 ft., and W.of post 7 ft.dist.; raise a mound of earth 4 ft.vase, 2 ft.high W.of cor.

No suitable bearing trees available.

Thence

West on true line bet.secs.21 and 28.

Subdivision of T.15 S., R.4 W.

Chains.	Over low rolling sand hills; through dense undergrowth of sage and rabbit brush and scattering scrub cedar timber.
39.83	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{S\ 21}{\frac{1}{4}}$ S 28 1915 from which
	A cedar, 28 ins. diam., bears N.14° E. 174 lks. dist., marked $\frac{1}{4}$ S 21 B T
	A cedar 8 ins. diam., bears S75° W. 94 lks. dist. marked $\frac{1}{4}$ S 28 B T
79.66	The cor. of secs. 20, 21, 28, and 29.
	Land, low rolling sand hills.
	Soil, rich, coarse, loose sand on sandy subsoil.
	Timber, scrub cedar.
	Undergrowth, sage and rabbit brush.

	From the cor. of secs. 16, 17, 20, and 21,
	East on random line bet. secs. 16 and 21,
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.70	Intersect N. and S. line 5 lks. N. of the cor. of secs. 15, 16, 21, and 22.
	Thence
	N.89° 58'W. on true line bet. secs. 16 and 21,
	Over rolling sandy land; through scattering scrub cedar timber and dense undergrowth of sage and rabbit brush.
.90	Road, bears N.20° W., and S.20° E.
11.90	Road, bears N.20° E., and S.20° W.
40.35	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., on the S. bdy. of sec. 16,

Subdivision of T.15 S.,R.4 W.

chains	
	with brass cap marked S 16 ¼ 1915
	from which A cedar, 24 ins. diam., bears N.62°E., 239 lks. dist., marked ¼ S 16 B T No other trees available.
	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.
40.70	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. on the N. bdy. of sec. 21, with brass cap marked o S 21 ¼ 1915
	from which, A cedar, 15 ins. diam., bears S.50°W., 270 lks. dist., marked ¼ S 21 B T No other trees available.
	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, S. of c or.
60.70	Leave scattering cedar timber, bears N. and S.
80.70	The cor. of secs. 16,17,20 and 21
	Land, rolling sand hills, general N. exposure and drainage.
	Soil, loose rich sand on eastern portion of mile and sandy clay loam on western portion. Sub-soil, generally rich sand.
	Timber, scrub cedar on E. 60.70 chs.
	Undergrowth, sage, rabbit brush and scattering patches of greasewood.
	Some grass, suitable for grazing.

Boundaries of T.15 S.,R.4 W

Lines designated	True bearings	Distances	Latitudes N.	Latitudes S	Departures E.	Departures W.
		chs.	chs.	chs.	chs.	chs.
W.bdy.sec.36	N.0°31'E.	40.18	40.18	------	.36	------
"	N.1°0'W.	41.03	41.02	------	------	.75
W.bdy.sec.25	N.0°21'W.	81.70	81.70	------	------	.50
W.bdy.sec.24	N.0°10'E.	81.39	81.39	------	.23	------
W.bdy.sec.13	N.0°01'W.	81.17	81.17	------	------	.03
W.bdy.sec.12	N.0°14'E.	80.00	80.00	------	.32	------
W.bdy.sec.1	N.0°02'E.	39.21	39.21	------	.02	------
"	North	38.77	38.77	------	------	------
N.bdy.sec.1	East	8.85	------	------	8.85	------
"	East	71.02	------	------	71.02	------
E.bdy.sec.1	South	78.37	------	78.37	------	------
E.bdy.sec.12	South	80.66	------	80.66	------	------
E.bdy.sec.13	South	79.93	------	79.93	------	------
E.bdy.sec.24	South	81.52	------	81.52	------	------
E.bdy.sec.25	South	81.50	------	81.50	------	------
E.bdy.sec.36	South	81.06	------	81.06	------	------
S.bdy.sec.36	West	79.07	------	------	------	79.07
Convergency			------	------	.10	------
Totals			483.44	483.04	80.90	80.35
			483.04			
Error in lat.			.40		80.35	
Error in dep.					.55	

Lines designated	True bearings	Distances	Latitudes N.	Latitudes S.	Departures E.	Departures W.
		chs.	chs.	chs.	chs.	chs.
N.bdy.T16SR4W	N.89°48'E.	81.14	.28	------	81.14	------
"	N.89°19'E	40.60	.48	------	40.60	------
"	S.89°52'E.	40.62	------	.10	40.62	------
"	N.89°44'E.	81.53	.38	------	81.53	------
W.bdy.sec.34	N.0°29'E.	80.24	80.24	------	.68	------
W.bdy.sec.27	N.0°36'W.	82.27	82.27	------	------	.86
W.bdy.sec.22	N.0°44'E.	82.20	82.19	------	1.05	------
E.bdy.sec.16	N.0°05'W.	79.98	79.98	------	------	.12
N.bdy.sec.16	S.89°45'W.	40.45	------	.18	------	40.45
"	N.89°56'W.	40.10	.05	------	------	40.10
W.bdy.sec.16	South	79.96	------	79.96	------	------
W.bdy.sec.21	South	80.00	------	80.00	------	------
N.bdy.sec.29	N.89°43'W.	40.32	.20	------	------	40.32
"	S.89°50'W.	40.06	------	.11	------	40.06
N.bdy.sec.30	N.89°55'W.	40.00	.06	------	------	40.00
"	N.88°46'W.	42.94	.92	------	------	42.93
W.bdy.sec.30	S.0°06'E.	6.56	------	6.56	.01	------
"	S.0°18'W.	39.96	------	39.96	------	.21
"	S.0°12'W.	40.15	------	40.15	------	.14
W.bdy.sec.31	South	80.00	------	80.00	------	------
Convergency					------	.13
Totals			327.05	327.02	245.63	245.32
			327.02			
Error in latitude			.03		245.32	
Error in departure					.31	

General Description

This township contains two varieties of land; rolling and rough mountainous. The land in secs. 16,21,28,29, 30,31,32 and 33 is situated on a large bench and

General Description

consists of rolling sand hills, the soil being a very loose, coarse red and white sand, its depth being from two to ten feet. Rolling foot hills are found in the west ½ of the eastern range of sections, the soil of this land being generally a shallow sandy loam, mixed with gravel and streaked with red and gray quartz rock and lies on a very hard, dry baked sand and rock sub-soil. From these foot hills or in the east ½ of the eastern range of secs., the land rises abruptly to the east forming the mountainous portion of the township. These mountains are very rocky and ledgy of red and gray quartz formation and are cut by many deep ravines which drain to the valley to the west.

Considerable scrub cedar and pinon timber is found on all of the land, especially in the western part of the township where it is very thick. The undergrowth is chiefly sagebrush, rabbit brush and shadscale, the sagebrush predominates.

In sec. 36, near the cor. of secs. 25 and 36 a small seep which flows only in the spring of the year is the only seep or spring I find in the township.

A large irrigation canal enters this township in sec. 1 and flows through secs. 16, 20, 29, 30 and 31. Small laterals from this canal furnish water for irrigation purposes in secs. 30 and 31.

George Anderson, located in sec. 31 has about 20 acres of land under cultivation and producing crops. He has also cleared about 10 acres which are ready to be cultivated, built a granary and small shanty. Fencing of his property was being done during the progress of this survey. Improvements cannot be seen from line.

Considerable amount of fencing has been done in this township, chiefly along the lines of the patented surveys.

We find no indications of mineral in the township.

Blank

Page

BOOK A-432

~~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 tated 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-ion; and that said survey has been, in all respects, to the best of our knowledge and belief, well and ~~aithfully executed.~~

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	
Carl Ray	Dec.5,1915	May 27,1916	chainman
William Fredricksen	Dec.5,1915	May 27,1916	chainman
Edward Jones	Dec.5,1915	Dec.14,1915	chainman
Edward Oliver	Dec.5,1915	Dec.14,1915	chainman
Harry Fox	Dec.5,1915	Dec.14,1915	cornerman
James Tygerson	Dec.5,1915	Dec.6,1915	cornerman
George Terry	Dec.9,1915	Dec.14,1915	cornerman

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

Howard Mercer

U. S. Surveyor.

CERTIFICATE

FINAL OATH OF UNITED STATES SURVEYOR AND TRANSIT

We Isaac Hayes, U.S.Transitman certify on honor
I, Howard W. Miller, 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 25 th. day of June, 191 5, We have well, faithfully, and truly in ~~my own~~ our 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 Resurvey of the west boundary; retracement and resurvey of the 3rd. St.Par. S., through range 4 West; retracement and survey of the east boundary; retracement and resurvey of the subdivision; survey of the 3rd. St. Par. S., through R.4 W. and survey of the subdivision of T.15 S., R. 4 W. of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by ~~me~~ us, and under ~~my~~ our direction, and ~~I~~ we do further certify on honor ~~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.

and datex diagram on page 1 of same on dates shown on diagram

Howard W. Miller
U. S. Surveyor.

Isaac Hayes
U.S.Transitman

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Jan. 25, 191 8

The foregoing field notes of the ~~survey of~~ retracement, resurvey, and survey of the Third Standard Parallel South, through Range No. 4 West; resurvey of the West boundary; retracement and survey of the East boundary; and the retracement, resurvey, and survey of the subdivision of Township No. 15 South, Range No. 4 West of the Salt Lake Base and Meridian, Utah,

executed by Howard W. Miller and Isaac Hayes
under ~~his~~ special instructions dated June 25, 191 5, 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.

6—2761

U. S. Surveyor General.

4—670

BOOK A-432

C.

FIELD NOTES

OF THE ~~SURVEYS OF THE~~

Resurvey of the 5th. Standard Parallel South through range 8 west; survey of the subdivision and retracement and establishment of ¼ sec. cors. on the west boundary of T.26 S.,R.8 W.

U. S. Surveyor General's Office
FEB 4 1918
SALT LAKE CITY, UTAH.

Of the Salt Lake Base and *Meridian,*

In the State of Utah.

EXECUTED BY

Andrew Nelson, U. S. Transitman

and

Howard W. Miller, U. S. Surveyor

~~under the supervision of the Surveyor~~, *under instructions dated* January 20, *1916*

Issued by the United States Surveyor General to govern surveys included in Group No. 47, *which were approved by the Commissioner of the General Land Office,* February 2, *1916*

Assignment instructions dated September 8,1916 and September 23,1917.

Survey commenced December 12, *1916*

Survey completed October 27, *1917*

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Examinations Classified

A Plat C.B.H. F.B.J. Notes C.B.H. K.F.B.

B Computations C.B.H.

Comparing

C Plat V.I.F. Notes K.F.B.

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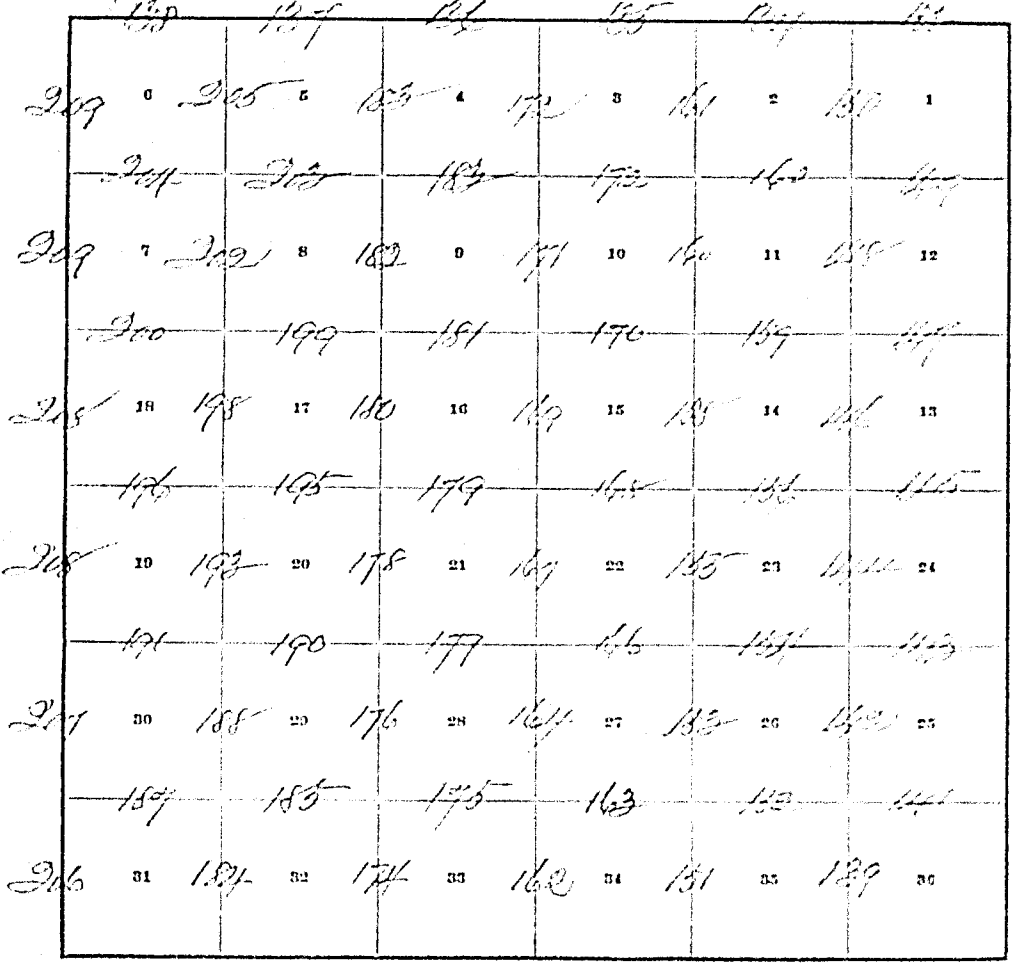
INDEX DIAGRAM.

Township 26 S., Range 8 W.



Resurvey 5th. Standard Parallel South, through R.8 W.

Date diagram, T.26 S.,R.8 W.

10-24-17	10-24-17	10-24-17	10-23-17	10-23-17	10-23-17
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10-18-17 31	10-15-17 32	12-16-16 33	12-15-16 34	12-13-16 35	12-12-16 36

10-23-17

Lines dated and colored with red ink were surveyed by Andrew Nelson, U. S. Transitman.

Lines dated and colored with black ink were surveyed by Howard W. Miller, U. S. Surveyor.

Survey commenced December 12,1916 and executed with Buff and Buff light mountain transit No. 8964, equipt with Smith solar attachment and full vertical circle. 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

Resurvey 5th. Standard Parallel South, through R.8 W.

chains

verniers of the lat. and decl. arcs and vertical circle.

The instrument was received by Andrew Nelson, U.S. Transitman in the field November 7,1916, from the Supervisor of Surveys, and was approved for use in this survey, conditional upon satisfactory field tests. The same instrument was used by Howard W. Miller, U. S. surveyor in 1917 and was approved for use in this survey by the Assistant Supervisor of Surveys for Utah in assignment instructions dated September 23,1917.

Test of instrument by Andrew Nelson, 1916.

I examine the adjustments of the transit and correct the level and collimation errors, The solar apparatus not being in adjustment, all lines surveyed by me in T.26 S.,R.8 W., were derived and run from Polaris meridians.

At the cor. of secs. 35 and 36 on the S. bdy. of the tp., as set by me November 27,1916 in the survey of the N. bdy. of T.27 S.,R.8 W., approximate latitude 38°30'N., longitude 112°42'W., I observe Polaris as follows:

December 12,1916: At 2h. 05m.a.m.l.m.t., I observe Polaris at approximate western elongation in accordance with the Manual of Instructions, and mark a point in the line thus determined, on a peg, driven firmly in the ground about 8 chs. N. of my station.

At 9h.00m.a.m.l.m.t., I lay off the azimuth of Polaris, 1° 26½' to the east, and mark the meridian thus determined, by a nail in a stake, driven in the ground, about 8 chs. N. of the cor.

Test of instrument by Howard W. Miller,1917.

I examine the adjustments of the transit and solar apparatus and correct the errors, then, to test the solar apparatus, by comparing it's indications

chains

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 situated near the ¼ sec. cor. bet. secs. 9 and 16, T.26 S.,R.8 W., approximate latitude 38°33½'N., longitude 112° 44'W., October 11,1917, I make a meridian observation on the sun for apparent noon, as follows:

	Watch time
Sun's west limb ----------	12h. 00m. 20s.p.m.
Sun's east limb ----------	12h. 02m. 30s.
Mean ----------	12h. 01m. 25s.
Apparent noon ----------	12h. 00m. 00s.
Equation of time to be subtracted from apparent time ---	13m. 08s.
L.m.t. of apparent noon, Oct.11=11h. 46m. 52s.a.m.	
Watch time of apparent noon --- 12h. 01m. 25s.p.m.	
Watch fast ----------	00h. 14m. 33s.

October 11,1917: At the above station at 5h. 50m.p.m. by my watch, I begin to observe Polaris and note as a reference point a tree on a ridge about 12 miles distant to the north

	Tree	Star	Watch time
Tel. direct			
	0° 00' 00"	0° 38'E.	5h. 50m. 00s.
	0° 00' 00"	0° 38'E.	5h. 51m. 10s.
Tel.reversed			
	0° 00' 00"	0° 39'E.	5h. 52m. 15s.
	0° 00' 00"	0° 39'E.	5h. 53m. 20s.
Mean	0° 00' 00"	0° 38' 30" E.	5h. 51m. 41s.

Watch fast ----------	14m. 33s.
L.m.t. of obsn. ----------	5h. 37m. 08s. p.m.
U.C.Polaris October 12,1917 --------	12h. 11m. 42s.a.m.
Correct for long. of station-------	1m. 12s.
L.m.t. of Pol. Oct.12 at station ---	12h. 10m. 30s.
Hour angle of Pol. at obsn. --------	6h. 33m. 22s.
Azimuth of Polaris at obsn. --------	1° 26'00" E.
Subtract ----------	38'30"

Tree bears --------N.0° 47'30" E.

October 11,1917,

October 14: At 8h.a.m. apparent time, I set off 38°33½' on the lat. arc; 8°03'S., on the decl. arc; and determine a meridian with the solar and find that the tree bears N.0°47½'E..

Resurvey 5th. Standard Parallel South, through R.8 W.

chains

With the instrument in the meridian, I set off 8°08'S., on the decl. arc, and at apparent noon obs. the sun on the meridian; the resulting lat. is 38°33½'.

At 4h.p.m. apparent time, I set off 38°33½' on the lat. arc; 8°11'S., on the decl. arc; and determine a meridian with the solar and find that the tree bears N.0°47'E.

The solar apparatus by a.m. and p.m. observations defines positions for meridians that practically agree with the Polaris meridian, I therefore conclude that the instrument is in good adjustment.

I test the instrument frequently during the progress of the survey and thereby keep same in good adjustment.

On account of local attraction in this vicinity, no magnetic declination is taken.

Measurements.

A steel tape, 5 chs. long was used for all measurements in the field, together with a clinometer for determining slope angles and the reduced horizontal distances only appear in the field notes. The tape was tested, comparison being made with a standard tape, 1 ch. long, kept and used for that purpose.

I begin at the standard SW. cor. of T. 25 S., R.7 W. which is a lava rock, 8 x 8 x 6 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. Approximate lat. 38°36'N., long. 112°40'W.

From cor. I run

West.

1.37 The closing cor. of Tp. 26 S., Rs. 7 and 8 W. which is lava rock, 15 x 16 x 6 ins. above ground, firmly set and marked and witnessed as described by the surveyor general.

From standard SW. cor. of T.25 S., R.7 W. the standard closing cor. of Tps. 25 and 26 S., R.8 W., which is a lava

chains	
	rock, 22 x 12 x 8 ins., lying on the ground, properly marked and witnessed by a small mound of stone W. of cor., bears N.18°08'W., 9.66 chs.
	In exact position of old cor., I re-set same stone, 15 ins. in the ground, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

	From standard closing cor. of Tps. 25 and 26 S., R.8 W., I run
	West, resurveying along S. bdy. of sec. 36
	Over nearly level clay flat, through dense sagebrush and shadscale.
4.00	Base of volcanic ledge break; level flat and enter broken hilly land, bears N. and S. Ascend.
4.55	Top of break, bears N. and S.
39.91	Fall 10 lks. S. of standard ¼ sec. cor. which is a lava rock, 14 x 14 x 10 ins., lying on the ground, marked ¼ on upper face, and witnessed by small mound of stone N. of cor.
	I re-set cor., 8 ins. in the ground, marked ¼ on N. face and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	The bearing of this ½ mile is N.89°51'W., and the distance is 39.91 chs.
	From point 10 lks. S. of cor., I continue
	West
59.10	Top of low ridge, 35 ft. above ¼ sec. cor., bears N. and S. Gradually descend over rocky W. and SW. slopes.
79.98	Fall 23 lks. S. of standard cor. of secs. 35 and 36, which is a lava rock, 16 x 12 x 10 ins., lying on the ground, marked with 5 grooves on one and one groove on opposite edge and witnessed by small mound of stone N. of cor.
	I reset stone, 10⅔ ins. in the ground, marked with 5 grooves on W. and one groove on E. face; raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

Resurvey 5th. Standard Parallel South, through R.8 W.

chains	
	The bearing of this ½ mile is N.89°49'W., and the distance is 40.07 chs.
	Land, hilly and broken volcanic benches, N. exposure and drainage.
	Soil, rocky of volcanic formation and shallow brown clay, on hard, dry clay and rocky sub-soil.
	No timber.
	Undergrowth, sagebrush and shadscale. Fair grazing.

	From the standard cor. of secs. 35 and 36
	West, along the S. bdy. of sec. 35
	Over broken, rocky volcanic bench land, through dense sagebrush.
2.90	Rocky spur, 10 ft. above cor., projects SW. Descend over SW. slope.
17.00	Base of descent and enter large flat, 120 ft. below spur, bears NW. and SE.
40.31	Fall 37 lks. S. of standard ¼ sec. cor. which is a volcanic stone, 12 x 12 x 8 ins. above ground, firmly set, marked ¼ on N. face. No accessories to cor. I dig pits, 18 x 18 x 12 ins., E. and W. of stone, 3 ft. dist.
	The bearing of this ½ mile is N.89°29'W., and the distance is 40.31 chs.
	From point 37 lks. S. of cor., I continue West
49.30	Small lava reef, 15 ft. high, bears N. and S.
62.70	Main bottom of large draw or basin, course N.35°W. Old road in same, bears N.35°W. and S.35°E.
80.62	Fall 42 lks. S. of standard cor. of secs. 34 and 35 which is a lava rock, 12 x 10 x 8 ins., lying on the ground marked with 4 notches on one and 2 notches on opposite edge. No accessories to cor.
	I re-set stone, 8 ins. in the ground, marked with 4 notches on W. and 2 notches on E. edge; dig pits, 24 x 18 x 12 ins., crosswise on each line, E. and W. 3 ft. and N. of

chains	
	stone, 7 ft. distant.
	The bearing of this ½ mile is N.89°56'W., and the distance is 40.31 chs.
	Land, rolling and broken volcanic benches and flats; general N. exposure and drainage.
	Soil, rocky of volcanic formation and shallow brown clay; on very dry, hard clay and rocky sub-soil.
	No timber.
	Undergrowth, sagebrush and shadscale.

	From the standard cor. of secs. 34 and 35,
	West, along the S. bdy. of sec. 34.
	Over nearly level flat draining N., through dense sagebrush. Gradually ascend.
5.00	Leave flat and enter broken hills, bears N. and S. Ascend over E. slope.
17.00	Top of lava rock spur, 100 ft. above cor., projects N. Descend across head of small draw, drains N.
27.25	Lava rock ridge, bears NW. and SE. Descend.
30.40	Draw, 35 ft. below spur, heads about 8 chs. N., drains S. Ascend.
39.90	Top of spur, 75 ft. above draw, projects N. Descend.
40.02	Fall 40 lks. N. of standard. ¼ sec. cor. which is a lava rock, 8 x 8 x 4 ins. above ground, firmly set, marked ¼ on N. face. No accessories to cor.
	I raise a mound of stone, 3 ft. base, 3 ft. high, N. of cor.
	The bearing of this ½ mile is S.89°26'W., and the distance is 40.02 chs.
	From cor., I continue
	West
54.95	Bottom of draw, 55 ft. below cor., course N. Gradually ascend
63.30	Point of rocky spur, 55 ft. above draw, falls N. Thence over broken ground, gradually ascending.
80.53	Fall 50 lks. N. of the standard cor. of secs. 33 and 34,

Resurvey 5th. Standard Parallel South, through R.8 W.

chains	
	which is a lava rock, 14 x 14 x 14 ins. above ground, firmly set, properly marked and not witnessed.
	I raise a mound of stone, 3 ft. base, 3 ft. high, N. of cor.
	The bearing of this ½ mile is S.89°17'W., and the distance is 40.51 chs.
	Land, rough, broken hills, N. exposure and drainage.
	Soil, rocky of volcanic formation and shallow brown clay, on hard, dry clay and rocky sub-soil.
	No timber.
	Undergrowth, sagebrush.

	From point 50 lks. N. of standard cor. of secs. 33 and 34. West, along the S. bdy. of sec. 33
	Over broken mountainous land through dense sagebrush. Ascend.
2.10	Low ridge, 10 ft. above cor., bears N. and S.20°E. Descend.
10.25	Draw, 45 ft. below spur, course NW. Ascend.
20.20	Enter bench, 40 ft. above draw, bears N. and S.
35.20	Leave bench, bears N. and S. Descend abruptly 110 ft. to
43.53	Fall 98 lks. N. of standard. ½ sec. cor. which is a lava rock, 18 x 15 x 12 ins. above ground, firmly set and properly marked. No accessories to cor.
	I build a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	The bearing of this ½ mile is S.89°22'W., and the distance is 43.53 chs.
	From point, 98 lk. N. of cor., I continue West.
49.75	Rocky spur, projects NW.
52.70	Leave lava rock, bears S. and N. 1 ch., thence NE.
64.30	From this point an earth dam about 10 ft. high, N. end of reservoir, across large wash, bears SW. 60 lks. and extends S.38°W. for about 2 chs. Descend abruptly.
67.25	Bottom of draw, 60 ft. below ½ cor., course N.20°W. Ascend abruptly.

Resurvey 5th. Standard Parallel South, through R.8 W.

chains	
71.50	Road, on dugway out of draw, bears N. and S. Road turns E. across draw about 4 chs. N.
74.35	Top of west side of draw, 45 ft. above bottom and enter bench, bears N. and S.
83.38	Fall 101 lks.N.of standard cor. of secs. 32 and 33, which is a lava rock, 12 x 6 x 5 ins., lying on the ground, marked with 4 notches on one and 2 notches on opposite edge. No accessories to cor.
	I re-set stone, 8 ins. in the ground, marked with 4 notches on E. and 2 notches on W. edge; dig pits, 24 x 18 x 12 ins., crosswise on each line, E. and W. 3 ft., and N. of stone, 7 ft. distant.
	The bearing of this ½ mile is S.89°58'W. and the distance is 39.85 chs.
	Land, broken mountainous and bench lands, general N. exposure and drainage.
	Soil, shallow brown clay loam, gravelly and rocky of volcanic formation, on hard, dry clay and rocky sub-soil.
	No timber.
	Undergrowth, sagebrush. Fair grazing.

	From point 101 lks.N.of standard. cor. of secs. 32 and33
	West, along the S. bdy. of sec. 32.
40.00	No trace of the St. ¼ sec. cor. can be found.
80.95	Fall 110 lks.N.of standard cor. of secs. 31 and 32 which is a granite stone, 9 x 7 x 5 ins. above ground, firmly set and properly marked. No accessories to cor.
	I dig pits, 24 x 18 x 12 ins., crosswise on each line, E. and W. 3 ft., and N. of stone, 7 ft. distant.
	The bearing of this line is S.89°56'W., and the distance is 80.95 chs.
	Thence from standard cor. of secs. 32 and 33
	S.89°56'W., resurveying along S. bdy. of sec. 32.
	Over nearly level gravelly bench, through dense sagebrush.
40.47½	Proportionate measurement.

Resurvey 5th. Standard Parallel South, through R.8 W.

chains	
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for St: ¼ sec. cor., with brass cap marked SC / ¼S32 / 1917
	Dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. distant.
57.50	Bottom of large, shallow draw and wash, 10 lks. wide, 3 ft. deep, course NW. Gradually ascend over E. slope towards high mountain.
57.65	Road, Pine Creek to Antelope Sprs., bears NW. and SE.
80.95	The standard cor. of secs. 31 and 32.
	Land, nearly level and rolling bench, general N. exposure and drainage.
	Soil, sandy loam and gravelly, granite formation, on hard, dry sand and gravel sub-soil.
	No timber.
	Undergrowth, sagebrush. Fair grazing.

	From standard cor. of secs. 31 and 32.
	West, along the S. bdy. of sec. 31
	Over rolling land through dense undergrowth of sagebrush and scattering juniper. Gradually ascend over E. slope towards high mountain.
20.00	Enter very scattering cedar timber and dense juniper undergrowth, bears N. and S.
40.05	Fall 2 lks. N. of standard ¼ sec. cor., which is a granite stone, 8 x 8 x 6 ins. above ground, firmly set, marked ¼ on N. face. No accessories to cor.
	I raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	The bearing of this ½ mile is S.89°58'W., and the distance is 40.05 chs.
	From point 2 lks. N. of standard ¼ sec. cor., I continue West
74.80	Base of mountain, bears N. and S. Enter dense cedar and

Resurvey 5th. Standard Parallel South, through R.8 W.

chains	
	pinon timber, bears N. and S. Ascend abruptly over E. slope 310 ft. to
82.94	Fall 12 lks. S. of the standard cor. of T. 25 S.,Rs. 8 and 9 W., which is a limestone, 12 x 12 x 4 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	The bearing of this ½ mile is N.89°48'W., and the distance is 42.89 chs.
	Land, E.74.80 chs. rolling; remainder of mile rough mountainous. General E. exposure and drainage.
	Soil, gravelly and rocky of quartz formation with some shallow brown clay soil, on hard dry sand and rocky sub-soil.
	Timber, cedar and pinon on western portion of mile.
	Undergrowth, sagebrush and juniper.

	From the standard cor. of T. 25 S.,Rs. 8 and 9 W., the closing cor. of T.26 S.,Rs. 8 and 9 W. which is an iron post, 3 ins. in dia., extending 12 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general, bears N.88°01'W. 1.13 chs.

	Subdivision of T.26 S.,R.8 W.
	From the cor. of secs. 35 and 36 on the S. bdy. of the tp. heretofore described, I run
	N.0°01'W., bet. secs. 35 and 36
	Over rolling and broken volcanic bench lands draining to the NE. and N., through undergrowth of dense black sagebrush and scattering oak brush. A few scattering cedars. Gently descend.
36.60	Small, rocky gully, 25 ft. deep, course NE.
40.00	On gentle E. slope, 200 ft. below sec. cor.
	Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground on solid rock and 20 ins. in a mound of

Subdivision of T.26 S.,R.8 W.

chains	
	stone for ¼ sec. cor., with brass cap marked ¼ S35 | S36 1916 from which
	A cedar, 5 ins.diam.,bears S.51½°W., 166 lks. dist.,marked ¼ S 35 B T
	No other trees available
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
50.30	Enter heavier cedar timber, bears E. and W.
75.00	Leave dense, enter scattering cedar timber, bears E. and W.
78.50	Descend steep N. slope of volcanic rim.
80.00	On steep N. slope, 120 ft. below ¼ sec. cor.
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 25,26,35 and 36, with brass cap marked T26S | R8W S26 | S25 S35 | S36 1916 from which
	A cedar, 12 ins.diam.,bears N.16°E., 329 lks. dist.,marked T 26 S R 8 W S 25 B T
	A cedar, 6 ins.diam.,bears N.2½°W., 272 lks. dist.,marked T 26 S R 8 W S 26 B T
	No other trees available.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, rolling and broken volcanic benches, facing and drainage to the NE. and N.
	Soil, rocky, mixed with some rich sandy and clay loams; surface covered with volcanic boulders.
	Timber, cedar.
	Undergrowth, dense sagebrush and scattering oak brush.

Subdivision of T.26 S.,R.8 W.

chains	
	East, on a random line bet. secs. 25 and 36
40.00	Set temp. ¼ sec. cor.
79.96	Intersect E. bdy. of the tp. 19 lks. N. of the cor. of secs. 25,30,31 and 36 which is a quartzite stone, 14x 12 x 8 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	Thence
	N.89°52'W., on true line bet. secs. 25 and 36
	Over gently rolling land sloping N., through cedar timber and dense undergrowth of sagebrush and scattering oak brush. Gently descend.
12.40	Base of gentle descent and enter rocky, broken volcanic lands, bears N.30°E. and S.30°W. Ascend E. slope.
19.00	Low, rocky spur, projects SE. 3 chs. Descend.
23.20	Short hollow, 65 ft. deep, course SE., heads NW. 3 chs. Ascend.
26.50	Rocky point, projects S. 4 chs. and bears N.20°W. Descend.
34.00	Depression on S. slope, 45 ft. deep, drains SE. Ascend.
39.00	Top of E. edge of bench, bears NE. and S.
39.98	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked

S25

¼

S36

1916

from which

A cedar, 5 ins.diam.,bears N.55¾°E.,51 lks. dist.,marked ¼ S 25 B T

A cedar, 8 ins.diam.,bears S.61¾°W., 61 lks. dist.,marked ¼ S 36 B T

Thence over nearly level bench lands.

72.00	Leave top, bears N. and S. Descend 20 ft. to
77.00	Cross head of flat hollow, drains NW. Ascend 15 ft. to
79.96	The cor. of secs. 25,26,35 and 36

Land, gently rolling bench lands, broken volcanic rim and nearly level land; drainage and exposure to NE. and NW

Subdivision of T.26 S.,R.8 W.

chains	
	Soil, rather moist, rich, sandy clay, mixed with volcanic rock.
	Timber, considerable cedar and a few pinon.
	Undergrowth, dense sagebrush and scattering oak brush.

	N.0°01'W., bet. secs. 25 and 26
	Over rolling and broken volcanic bench lands facing and draining NW., through cedar timber and undergrowth of dense sagebrush and scattering oak. Ground covered with volcanic rock.
.75	Enter wide, flat hollow or basin, bears SE. and SW.
2.50	Leave same, bears N.80°W. and S.80°E., drains NW.
27.00	Top of raise or slight ascent, bears NW. and SE. Gradually descend over gentle N. slope.
34.40	Near head of small gully, 50 ft. below raise, course N.10°W.
37.50	Same gully, 10 ft. deep, course N.30°E.
40.00	On N. slope, 100 ft. below raise at 27.00 chs and amongst large volcanic boulders.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{1}{4}$ S26 | S25 1916
	from which
	A cedar,14 ins.diam.,bears S.48$\frac{3}{4}$°E.,123 lks. dist.,marked $\frac{1}{4}$ S 25 B T
	A cedar, 15 ins.diam.,bears S.10$\frac{1}{2}$°W., 74 lks. dist.,marked $\frac{1}{4}$ S 26 B T
	Descend 20 ft. to
41.00	Same gully, course N.60°W.Ascend SW. slope over volcanic reef, 40 ft. to
46.30	Top of point on volcanic reef, bears NW. and SE.
	Descend over N. slope 130 ft. to
60.00	Base of volcanic reef and leave timber and oak brush, bears E. and W. Thence over gently rolling land.

chains	
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 and 26, with brass cap marked T26S | R8W S23 | S24 S26 | S25 1916 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, rolling and broken volcanic benches, general NW. exposure and drainage.
	Soil, rocky, mixed with rich sandy and clay loams; surface strewn with volcanic rock; sub-soil, rock and clay.
	Timber, cedar with some pinon on S. 60.00 chs.
	Undergrowth, sagebrush with scattering oak.

	S.89°52'E., on a random line bet. secs. 24 and 25
40.00	Set temp. ¼ sec. cor.
79.90	Intersect E. bdy. of the tp., 16 lks. S. of the cor. of secs. 19,24,25 and 30 which is a volcanic stone, 16 x 13 x 11 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general
	Thence
	N.89°59'W., on true line bet. secs. 24 and 25
	Over rolling and hilly volcanic land, facing to the NE. and N., through sagebrush. Soil rocky.
1.00	Enter medium dense cedar timber, bears N. and S. Gradually ascend over land sloping N.
15.50	Ravine, 5 ft. deep, course N.
31.25	Shallow drain, course N.60°E. Ascend steep E. slope 55 ft. to
36.80	E. edge of volcanic ridge, 110 ft. above sec. cor., bears N.30°E. and S.10°W.
38.60	W. edge of ridge and rim rock, bears N.30°E. and S.10°W. Descend 35 ft. to
39.95	On gentle W. slope at foot of steep descent.

Subdivision of T.26 S.,R.8 W.

chains	
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked S24 ¼ S25 1916 from which A cedar, 10 ins.diam.,bears N.62½°E., 20 lks. dist.,marked ¼ S 24 B T A cedar, 6 ins.diam.,bears S.60¾°E., 38 lks. dist.,marked ¼ S 25 B T
42.30	Shallow draw, 10 ft. below ¼ sec. cor., course N. Ascend 10 ft. to
48.00	Low, flat ridge, bears N. and S.30°E. Descend NW. slope.
59.00	Base of ridge and rocky land, bears NE. and SW. Thence over rolling land.
66.00	Leave timber, bears NE. and S.
79.90	The cor. of secs. 23,24,25 and 26, 60 ft. below ridge. Land, rolling and broken, drains to the N. Soil, rocky of volcanic formation, mixed with some rich, dark sandy and clay loams; surface covered with volcanic rocks. Timber, cedar and pinon, on 65,00 chs. Undergrowth, sagebrush
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	N.0°01'W., bet. secs. 23 and 24 Over rolling and broken volcanic bench lands facing NW., through dense sagebrush. Gradually descend.
40.00	On gentle N. slope, 160 ft. below sec. cor. Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground on solid rock and 14 ins. in a mound of stone for ¼ sec. cor., with brass cap marked ¼ S23 | S24 1916 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
57.37	Road, Pine Creek to Antelope Springs, bears E. and W.

Subdivision of T.26 S.,R.8 W.

chains	
57.57	Main drain and narrow rocky draw, 25 ft. deep, at base of descent, 100 ft. below ¼ sec. cor., course from W. to NW.; broadens out 5 chs. W. of line. Ascend over S. slope 80 ft. to
68.00	Top of ascent on W. slope and enter few scattered cedar, bears E. and W. Thence along W. slope of bench land.
80.00	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 T26S | R8W S14 | S13 S23 | S24 1916 from which A cedar, 12 ins.diam.,bears S.75½°W., 398 lks. dist.,marked T 26 S R 8 W S 23 B T No other trees available. Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, rolling and broken volcanic bench lands, general NW. exposure and drainage.
	Soil, rocky of volcanic formation and mixed with some rich, dark sandy and clay loams; surface covered with rocks.
	Timber, few scattered cedar on N. portion of mile.
	Undergrowth, dense sagebrush.
	S.89°59'E., on a random line bet. secs. 13 and 24.
40.00	Set temp. ¼ sec. cor.
79.90	Intersect E. bdy. of the tp., 5 lks. S. of the cor. of secs. 13,18,19 and 24 which is a volcanic stone, 8 x 10 x 6 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	Thence
	S.89°59'W., on true line bet. secs. 13 and 24.
	Over rolling volcanic land through dense sagebrush.

Subdivision of T.26 S.,R.8 W.

chains	
20.00	Depression, 15 ft. deep, drains N.
35.00	Thence over bench, slight slope to the west, bears N. and S.
39.95	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground on solid rock and 14 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{1}{4}$ S13 / S24 1916 raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
53.20	Swale, 30 ft. deep, drains S.
73.00	Leave bench, bears N. and S. Descend over W. slope.
79.90	The cor. of secs. 13,14,23 and 24.
	Land, rolling benches, drain NW.
	Soil, rocky and gravelly of volcanic formation with rich sandy and clay loams; surface covered with rocks. No timber.
	Undergrowth, dense sagebrush. Good grazing.

	N.0°01'W., bet. secs. 13 and 14.
	Over broken volcanic bench lands through dense sagebrush. Few scattering cedar W. of line. Gradually ascend over S. slope.
11.40	Top of bench, 35 ft. above cor. and enter scattering cedar timber, bears NW. and SE. Thence across bench.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{1}{4}$ S14 / S13 1917 from which
	A cedar, 5 ins.diam.,bears N.78½°E., 57 lks. dist.,marked $\frac{1}{4}$ S 13 B T
	A cedar, 5 ins.diam.,bears N.49½°W., 61 lks. dist.,marked $\frac{1}{4}$ S 14 B T

chains	
45.00	Leave timber, bears E. and W.
75.80	Leave bench, near N. end of same, bears N.20°E. and S.20°W. Descend.
80.00	On gentle NW. slope 50 ft. below bench.
	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
	T26S | R8W S11 | S12 S14 | S13 1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, nearly level and broken volcanic benches, drain NW.
	Soil, rocky of volcanic formation, on hard, dry clay and rocky sub-soil.
	Timber, scattering scrub cedar on S.45.00 chs.
	Undergrowth, sagebrush. Fair grazing.

	N.89°59'E., on a random line bet. secs. 12 and 13.
40.00	Set temp. ¼ sec. cor.
79.83	Intersect E. bdy. of the tp. at the cor. of secs. 7,12, 13 and 18 which is a lava rock, 12 x 12 x 6 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	Thence
	S.89°59'W., on true line bet. secs. 12 and 13.
	Over rolling and broken volcanic bench lands draining N., through dense sagebrush.
39.91½	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 S12 S13 1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Ascend 40 ft. to
50.05	Low, lava rock knoll or point, bears NW. and SE.

chains	
	Descend over W. slope.
59.80	Base of descent and edge of draw, bears NW. and SE.
	Thence across draw.
66.20	Bottom of draw, 60 ft. below point, course NW.
	Gradually ascend over NE. slope.
77.60	Low point of bench, 40 ft. above draw, projects N. about 5 chs. Descend 10 ft. to
79.83	The cor. of secs. 11,12,13 and 14.
	Land, rolling and broken volcanic bench lands, N. exposure and drainage.
	Soil, rocky of volcanic formation and hard, dry brown clay, on dry clay and rocky sub-soil.
	No timber.
	Undergrowth, sagebrush. Fair grazing.

	N.0°01'W.; bet. secs. 11 and 12.
	Over rolling volcanic bench lands through dense sage-brush. Descend over NW. slope.
4.50	Bottom of shallow draw, 30 ft. below cor., course NE.
	Old road, bears E. and W. Gradually ascend over SE. slope.
35.00	Begin steeper ascent.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{1}{4}$ S11 | S12 1917
	raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Cor. stands on SE. slope 50 ft. above draw.
45.00	Begin more gradual ascent.
66.00	Top of low ridge, 40 ft. above $\frac{1}{4}$ sec. cor., bears NE. and SW. Descend over NW. slope.
71.90	Draw, 35 ft. below ridge, course W. Ascend.
77.50	Low spur, 35 ft. above draw, projects W. Gradually descend 10 ft. to

chains	
80.00	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 T26S | R8W S2 | S1 S11 | S12 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, rolling volcanic benches, general SE. exposure on S.66.00 chs. and NW. exposure on N.14 chs.; drainage N.
	Soil, rocky of volcanic formation and shallow brown clay, on hard, dry clay and rocky sub-soil.
	No timber.
	Undergrowth, sagebrush. Fair grazing.

	N.89°59'E., on a random line bet. secs. 1 and 12.
40.00	Set temp. ¼ sec. cor.
79.76	Intersect E. bdy. of the tp. 18 lks. S. of the cor. of secs. 1,6,7 and 12 which is a lava rock, 8 x 10 x 18 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	Thence
	S.89°51'W., on true line bet. secs. 1 and 12.
	Over high, broken volcanic bench lands through dense sagebrush. Descend over rocky W. slope
19.50	Draw, 75 ft. below sec. cor., course N. Old road, bears NE. and SW. Ascend abruptly.
22.70	Top of steep ascent, bears NE. and SW.; ascend more gradually.
25.75	Low spur, 60 ft. above draw, projects NE. Gradually descend over NW. slope.
38.80	Bottom of draw, 20 ft. below spur, heads about 4 chs. SW. and drains NE. Ascend
39.88	Set an iron post, 3 ft. long, 1 in. in dia., 14 ins. in the ground on solid rock and 12 ins. in a mound of

chains	
	stone for ½ sec. cor., with brass cap marked ¼ S1 / S12 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
47.75	Begin more gradual ascent, bears NE. and SW.
59.75	Top of ridge, 75 ft. above ½ sec. cor., bears NE. and SW. Thence over gently rolling bench land.
76.75	Begin descent over W. slope.
79.76	The cor. of secs. 1,2,11 and 12.
	Land, rolling, broken, volcanic benches, general N. exposure and drainage.
	Soil, rocky of volcanic formation and some brown sandy clay loam, on hard, dry clay and rocky sub-soil.
	No timber.
	Undergrowth, sagebrush. Fair grazing.

	N.0°01'W., on true line bet. secs. 1 and 2.
	Over rolling hilly land through dense undergrowth of sagebrush. Land strewn with large lava rock. Descend over N. slope.
24.90	Draw, 60 ft. below cor., course NW. Gradually ascend
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground on solid rock and 6 ins. in a mound of stone for ½ sec. cor., with brass cap marked ¼ S2 | S1 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
55.00	Top of low raise, bears NE. and SW. Gradually descend.
76.40	Draw, 45 ft. deep, heads about 10 chs. E. and drains W.
	Volcanic bluffs E. of line. Ascend 75 ft. to
89.45	Intersect 5th. St. Par. S., 1.60 chs. S.89°49'E. of the standard cor. of secs. 35 and 36 heretofore described.
	At intersection,

Subdivision of T.26 S.,R.8 W.

chains	
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 1 and 2, with brass cap marked
	T25SR8W S36 S2 | S1 CC T26S 1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor.
	Land, broken volcanic hills and benches, drain NW.
	Soil, shallow, brown sandy clay loam, gravelly and rocky of volcanic formation, on hard, dry clay and rocky sub-soil.
	No timber.
	Undergrowth, sagebrush. Fair grazing.
	From the cor. of secs. 34 and 35 on the S. bdy. of the tp. heretofore described
	N.0°01'W., bet. secs. 34 and 35
	Over rolling and broken volcanic lands facing NW., through dense sagebrush, scattering oak and service-berry brush. Descend 50 ft. to
8.55	Rocky ravine, 20 ft. deep, course NW.
23.20	Ravine, 100 ft. below cor., course N.70°W.
40.00	On flat top raise, 100 ft. below sec. cor., bearing E. and W.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ½ sec. cor., with brass cap marked
	¼ S34 | S35 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
74.50	Low volcanic spur or rim, bears NW. and SE. Descend 30 ft. to
80.00	On NE. slope, 375 ft. below last sec. cor.
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in

chains	
	the ground for cor. of secs. 26,27,34 and 35, with brass cap marked
	T26S | R8W S27 | S26 S34 | S35 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, rolling and broken, faces and drains NW.
	Soil, rocky of volcanic formation, mixed with some rich, sandy and clay loams; surface covered with rocks.
	No timber.
	Undergrowth, dense sagebrush, scattering oak and service-berry brush. Good grazing.

	East, on a random line bet. secs. 26 and 35
40.00	Set temp. ¼ sec. cor.
79.96	Intersect N. and S. line 9 lks. N. of the cor. of secs. 25,26,35 and 36.
	Thence
	N.89°56'W., on true line bet. secs. 26 and 35
	Over rolling and broken hilly land, through scattering cedar timber and undergrowth of dense sagebrush, scattering service-berry and oak brush. Descend.
3.20	Enter wide hollow, 30 ft. below cor., bears NW. and SE., drains NW.
10.80	Leave hollow, bears NW. and SE. Ascend.
14.00	Point, between hollows, 40 ft. high, projects N. about 5 chs. Descend.
17.20	Rocky ravine, course N. Ascend rolling E. slope 80 ft.to
39.98	On ridge, bears N. and S.
	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 S26 S35 1916
	from which
	A cedar, 5 ins.diam., bears N.44½°E., 144 lks. dist., marked ¼ S 26 B T

Subdivision of T.26 S.,R.8 W.

chains	
	A cedar, 7 ins.diam., bears S.80¼°E.,126 lks. dist.,marked ¼ S 35 B T
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Descend over W. and NW. slopes 60 ft. to
66.60	Ravine, course N.15°E. Ascend 20 ft. to
79.96	The cor. of secs. 26,27,34 and 35.
	Land, rolling, broken and hilly, general N. exposure and drainage.
	Soil, rocky of volcanic formation, mixed with some rich, sand and clay loams; surface strewn with rock.
	Timber, scattering cedar.
	Undergrowth, dense sagebrush, scattering service-berry and oak brush.

	N.0°01'W., bet. secs. 26 and 27
	Over rolling and broken volcanic lands through very scattering cedar timber and dense undergrowth of sagebrush, scattering oak and service-berry brush. Land faces N.
	Descend nearly E.slope 80 ft. to
6.40	Cross head of hollow, course NE. Thence along E. slope.
14.20	Flat ridge or top of bench, bears NE. and SW. Gradually descend over land facing NW.
40.00	On nearly level ground, 150 ft. below 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 S27 | S26 1916
	from which
	A cedar, 9 ins.diam.,bears N.4°E., 290 lks. dist.,marked ¼ S 26 B T
	A cedar, 10 ins.diam.,bears N.10°W., 393 lks. dist.,marked ¼ S 27 B T
80.00	On gentle NW. slope, 90 ft. below ¼ sec. cor.

Subdivision of T.26 S.,R.8 W.

chains	
	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
	T26S | R8W S22 | S23 S27 | S26 1916
	from which
	A cedar, 14 ins.diam.,bears N.60½°E., 352 lks. dist.,marked T 26 S R 8 W S 23 B T
	A cedar, 6 ins.diam.,bears S.58¼°E., 171 lks. dist.,marked T 26 S R 8 W S 26 B T
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	No trees available for bearing trees in remaining secs.
	Land, rolling and broken, general drainage N.
	Soil, rocky and gravelly with some loose, dark, sandy and clay loams; considerable volcanic rock on surface.
	Timber, very scattering scrub cedar.
	Undergrowth, dense sagebrush, with scattering service-berry and oak brush.
	S.89°56'E., on a random line bet. secs. 23 and 26
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line 12 lks. N. of the cor. of secs. 23,24,25 and 26
	Thence
	N.89°51'W., on true line bet. secs. 23 and 26
	Over rolling and low hilly land through dense sagebrush.
	Over nearly level bench to
5.00	Begin descent over W. and NW. slopes.
7.00	Enter scattering cedar timber, bears NW. and S.
26.40	Ravine, 25 ft. deep, course N.10°W., 90 ft. below sec. cor. Gradually ascend over E. slope.
35.00	Enter heavier timber, bears N. and S.
40.00	On flat top spur, 30 ft. above ravine, projects N.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in

chains	
	the ground for ¼ sec. cor., with brass cap marked
	¼ S23 / S26 1916
	from which
	A cedar, 6 ins.diam.,bears N.5½°W., 46 lks. dist.,marked ¼ S 23 B T
	A cedar, 5 ins.diam.,bears S.60°E., 40 lks. dist.;marked ¼ S 26 B T
	Descend.
42.00	Enter more scattering timber, bears N. and S.
45.75	Wash, 12 lks. wide, 15 ft. deep, in ravine, course N.
	Ascend 50 ft. to
61.10	Volcanic spur, projects NE. Descend 20 ft. to
65.00	Shallow ravine, course N.20°E. Ascend E. slope 35 ft. to
80.00	The cor. of secs. 22,23,26 and 27.
	Land, rolling and hilly, general N. exposure and drainage.
	Soil, stony and gravelly, mixed with dark, moist clay and sandy loam. Surface strewn with volcanic rock.
	Timber, cedar.
	Undergrowth, dense sagebrush. Good grazing.

	N.0°01'W., bet. secs. 22 and 23.
	Over gently rolling volcanic bench lands sloping NW., through scattering cedar timber and undergrowth of sagebrush.
29.40	Leave bench, bears NW. and SE. Descend steep, rocky rim 80 ft. to
34.30	Base of rim and leave volcanic formation and timber, bears NW. and later SW. and SE. Thence over nearly level land, gravelly, granite formation.
40.00	225 ft. below 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 S22 | S23 1916

Subdivision of T.26 S.,R.8 W.

chains	
	dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.
53.20	Old road, bears NE. and SW.
64.00	Enter scattering cedar timber, bears E. and W.
72.50	Leave timber, bears E. and W. Timber on both sides line.
80.00	On nearly level ground
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 14,15,22 and 23, with brass cap marked
	T26S | R8 W S15 | S14 S22 | S23 1916
	from which
	A cedar, 12 ins.diam.,bears N.62½°E., 611 lks. dist.,marked T 26 S R 8 W S 14 B T
	A cedar, 10 ins. diam., bears S.69½°E., 401 lks dist.,marked T 26 S R 8 W S 23 B T
	A cedar, 6 ins.diam.,bears S.77½°W., 352 lks. dist.,marked T 26 S R 8 W S 22 B T
	A cedar, 6 ins.diam.,bears N.6½°W., 281 lks. dist.,marked T 26 S R 8 W S 15 B T
	Land, gently rolling, drains NW.
	Soil, rocky and gravelly with some dark clay loam, volcanic formation on S. 35 chs.; gravelly and clay loam of granite formation on N. 45 chs.
	Timber, scattering cedar.
	Undergrowth, dense sagebrush. Good grazing.
	S.89°51'E., on a random line bet. secs. 14 and 23.
40.00	Set temp. ¼ sec. cor.
79.96	Intersect the cor. of secs. 13,14,23 and 24.
	Thence
	N.89°51'W., on true line bet. secs. 14 and 23.
	Over broken and gently rolling volcanic land draining NW., through scattering cedar timber and undergrowth of dense sagebrush. Gradually descend over W. slope.
7.00	Descend abruptly over NW. slope.

chains	
10.25	Enter hollow, 100 ft. below cor., bears N. and S.
12.40	Wash, 6 lks. wide, 4 ft. deep, course N.20°W.
12.80	Old road, Pine creek to Antelope Springs, bears N.15°W. and S.15°E. Leave hollow, bears N.15°W. and S.15°E. Gradually ascend.
21.85	Top of volcanic reef, 10 ft. above hollow, projects N. Descend 30 ft. to
27.85	Enter hollow draining N., bears N. and S.
28.15	Leave hollow and base of volcanic rim, bears N. and S. Ascend steep E. slope 50 ft. to
29.70	Top of bench and enter dense cedar timber, bears N. and S. Thence across bench.
39.98	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 S14 / S23 / 1916 from which A cedar, 6 ins.diam.,bears S.15½°E., 74 lks. dist.,marked ½ S 23 B T A cedar, 6 ins.diam.,bears N.3½°W., 59 lks. dist.,marked ½ S 14 B T
59.60	Leave top of bench and timber, bears N. and S. Descend over boulders 20 ft. to
60.10	Base of bench and leave volcanic formation, bears N. and S. Thence over nearly level land, granite formation.
65.00	Old road bears N.10° E. and S.10° W.
67.70	Enter dense cedar and scattering pinon timber, bears N.& S.
75.00	Leave timber, bears N. and S.
79.96	The cor. of secs. 14,15,22 and 23.
	E. 60.00 chs. rolling and broken volcanic land; W. 19.96 chs. nearly level land.
	Soil, E.60.00 chs. gravelly and rocky and mixed with some clay loam; surface strewn with volcanic rock. W.19.96 chs. deep, gravelly and sandy loam; granite formation.
	Timber, cedar and pinon.

Subdivision of T.26 S.,R.8 W.

chains	
	Undergrowth, dense sagebrush. Good grazing.
	N.0°01'W., bet. secs. 14 and 15.
	Over nearly level bench land through dense undergrowth of sagebrush. A dense patch of cedar and pinon timber parallels line about 5 chs. E.
14.30	Old road, bears E. and W.
25.00	The NW. cor. of dense cedar and pinon timber bearing E. and S. bears E. about 2 chs.
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 S15 | S14 1917 dig pits, 18 x 18 x 12 ins. N. and S. of post, 3 ft. dist.
45.00	The S. end of a fence line bearing N. bears E. about 2 chs.
53.60	Road, Pine creek to Antelope springs, bears NW. and SE.
60.70	Leave bench, begin descent into draw, bears NW. and SE,
62.00	Fence line, bears E. and W.
64.25	Bottom of draw, course NW., 65 ft. below sec. cor.
69.25	Leave draw, bears NW. and SE. Ascend over volcanic SW. slope 50 ft. to
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 and 15, with brass cap marked T26S | R8W S10 | S11 S15 | S14 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, rolling, drains NW.
	Soil, S.¾ mile, sandy loam, mixed with sharp gravel of granite formation on hard, dry, sandy sub-soil. N.½ mile, rocky of volcanic formation on hard, dry clay and rocky sub-soil.
	Timber, cedar and pinon on both sides of line on S.¾ mile.

. Subdivision of T.26 S.,R.8 W.

chains	
	Undergrowth, dense sagebrush. Good grazing.
	S.89°51'E., on a random line bet. secs. 11 and 14.
40.00	Set temp. ¼ sec. cor.
79.88	Intersect N. and S. line 19 lks. S. of the cor. of secs. 11,12,13 and 14.
	Thence
	N.89°59'W., on true line bet. secs. 11 and 14.
	Over broken hilly volcanic bench lands draining N., through dense undergrowth of sagebrush. Gradually descend over NW. slope.
4.90	Dim road, bears NE. and SW.
9.65	Top of lava rock reef and brink of bench in low pass, bears N. and S. Descend abruptly over rocky W. slope.
14.60	Base of bench and enter rolling bottom lands, bears N. and S., 75 ft. below sec. cor.
39.94	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 S11 / S14 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Gradually ascend over E. slope.
44.70	Low spur, 30 ft. above ¼ sec. cor., projects S.
	Gradually descend.
67.90	Draw, 50 ft. below spur, course from the NE. to S.
	Ascend.
75.90	Spur, 50 ft. above draw, projects S. Descend 50 ft. to
79.88	The cor. of secs. 10,11,14 and 15.
	Land, rolling and hilly volcanic bench lands, draining S.
	Soil, brown sandy clay loam, gravelly and rocky of volcanic formation, on hard, dry brown sand and gravel sub-soil.
	No timber.
	Undergrowth, dense sagebrush. Good grazing.

chains	
	N.0°01'W., bet. secs. 10 and 11.
	Over hilly land, through dense undergrowth of sagebrush.
	Ascend over rocky S. slope.
11.40	Top of S. brink of bench, 75 ft. above cor., bears NE. and SW. Thence across nearly level top.
34.20	Leave bench, bears NW. and SE. Descend 75 ft. to
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 S10 | S11 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Cor. stands at base of bench, bears NW. and SE. Thence over rolling land, ground strewn with lava rock.
78.90	Bottom of shallow draw, course NE.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground on solid rock and 12 ins. in a mound of stone for cor. of secs. 2,3,10 and 11, with brass cap marked. T26S | R8W. S3 | S2 S10 | S11 1917 raise a mound of stone, 4 ft. base, 4 ft. high, W. of cor.
	Land, rolling and hilly volcanic lands, general N. drainage.
	Soil, rocky of volcanic formation with some shallow brown clay, on hard, dry clay and rocky sub-soil.
	No timber.
	Undergrowth, dense sagebrush. Fair grazing.

	S.89°59'E., on a random line bet. secs. 2 and 11
40.00	Set temp. ¼ sec. cor.
79.91	Intersect N. and S. line 5 lks. N. of the cor. of secs. 1,2,11 and 12.
	Thence

chains	
	N.89°57'W., on true line bet. secs. 2 and 11.
	Over rolling and hilly land draining N., through dense undergrowth of sagebrush. Gradually descend over W. slope.
9.70	Top of reef and bench, bears N. and S. Descend abruptly over lava rock.
14.90	Base of bench and wide basin, 100 ft. below sec. cor., bears N. and S., drains N.
39.95½	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 S2 | S11 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
45.40	Top of lava rock reef and west side of basin, 15 ft. high, bears N. and S. 8 chs., thence E.
78.10	Shallow draw, 25 ft. deep, course NE.
79.91	The cor. of secs. 2,3,10 and 11.
	Land, rolling hills, N. exposure and drainage.
	Soil, shallow brown clay, heavily mixed with lava rock, on hard, dry, brown clay sub-soil.
	No timber.
	Undergrowth, sagebrush. Fair grazing.

	N.0°01'W., on true line bet. secs. 2 and 3.
	Over rolling volcanic bench lands strewn with lava rock, through dense undergrowth of sagebrush.
7.90	Begin gradual descent into large basin or draw.
15.60	Base of descent and enter large draw, bears E. and N.10°W.
32.90	Point on W. edge of draw, bears NW. and S.5°W.
40.00	75 ft. below 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 S3 | S2 1917

Subdivision of T.26 S.,R.8 W.,

chains	
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
65.00	Begin descent onto clay flat, bears NW. and SE.
72.60	Base of lower bench and flat, bears NW. and SE.
89.72	Intersect 5th. St. Par. S., 2.37 chs., S.89°56'E. of stand-ard cor. of secs. 34 and 35 heretofore described.
	At intersection, Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 2 and 3, with brass cap marked

T25SR8W
LS35

S3 | S2

CC
T26S
1917

dig pits, 24 x 18 x 12 ins., crosswise on each line, E. and W., 3 ft., and S. of post 7 ft. dist.

Land, rolling volcanic benches and clay flats. N. exposure and drainage.

Soil of benches, rocky of volcanic formation with some light brown clay soil, on hard, dry clay sub-soil. Soil of flats, light brown clay on hard, dry clay sub-soil.

No timber.

Undergrowth, sagebrush on benches, shadscale in flats.

Fair grazing.

From the cor. of secs. 33 and 34 on the S. bdy. of the tp. heretofore described.

N.0°02'W., bet. secs. 33 and 34.

Over low, rolling mountainous land facing N., through dense undergrowth of sagebrush and scattering oak.

Ascend 15 ft. to

2.20 Top of ascent on W. slope of ridge, bears E. and W.

Descend over N. slope 130 ft. to

10.00 Enter main hollow, bears NE. and SW., drains NE.

21.75 Leave hollow, 180 ft. below top of ascent, bears NE. and SW. Thence gradually ascend along E. slope.

chains	
40.00	On E. slope 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 S33 | S34 1916 from which An oak, 4 ins.diam.,bears N.71°E., 72 lks. dist., marked ¼ S 34 B T raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. No other suitable bearing trees available.
55.90	Sharp ridge, 25 ft. above ¼ sec. cor., bears N.25°E. and S.15°W. Descend along W. slope 170 ft. to
80.00	On W. slope, near top of small spur. 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. T26S | R8W S28 | S27 S33 | S34 1916 dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. dist. from post. Land, low mountainous, facing and draining N. Soil, deep, loose, rich gravelly and sandy loams, on gravel and clay sub-soil; granite formation. No timber. Undergrowth, dense sagebrush and scattering oak. Good grazing land.
	East, on a random line bet. secs. 27 and 34.
40.00	Set temp. ¼ sec. cor.
79.90	Intersect N. and S. line 12 lks. S. of the cor. of secs. 26,27,34 and 35.
	Thence S.89°55'W., on true line bet. secs. 27 and 34. Over low, rolling mountainous land facing N., through very scattering cedar timber and undergrowth of dense

Subdivision of T.26 S.,R.8 W.

chains	
	sagebrush and scattering oak. Ascend E. slope 20 ft. to
1.40	Volcanic ridge or rim, bears N. and S.20°E. Gradually descend.
17.50	Descend over W. slope and leave all timber, bears N. and S.
27.70	Rocky gully, 20 ft. deep, course NW., 120 ft. below ridge. Ascend 25 ft. to
39.95	On top of raise or low flat spur, projects N. Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground on solid rock and 10 ins. in a mound of stone for ¼ sec. cor., with brass cap marked $\frac{\frac{1}{4}\ \frac{S27}{S34}}{1916}$ raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Gradually descend over NW. slope, 50 ft. to
55.60	Ravine, course N.35°E. Leave volcanic, enter granite formation, ascend over SE. slope 85 ft. to
66.40	Spur, projects NE. Descend over NW. slope 110 ft. to
78.10	Small depression on N. slope, drains N. Ascend 10 ft. to
79.40	Top of small spur, projects N. 5 chs. Descend.
79.90	The cor. of secs. 27,28,33 and 34.
	Land, rolling mountainous, general N. exposure and drainage.
	Soil, gravelly and rocky, mixed with some clay loam; volcanic and granite formation.
	Timber, scattering cedar on eastern portion of mile.
	Undergrowth, dense sagebrush, scattering oak and service-berry brush. Good grazing.

	N.0°02'W., bet. secs. 27 and 28.
	Over hilly and rolling land facing NE., through very scattering cedar timber and undergrowth of dense sage-brush, scattering oak and service-berry brush. Descend over NW. slope 70 ft. to
13.80	Bottom of main hollow, 3 chs. wide, drains N.20°E. Old road in same, bears N.20°E. and S.20°W. Ascend along

Subdivision of T.26 S.,R.8 W.

chains	
	SE. slope 60 ft. to
35.00	Small spur, projects E. Descend 25 ft. to
37.00	Head of small gully, drains E. Ascend
40.00	On SE. slope, near top of ridge,
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{S}{4}$ S28 | S27 1916
	from which
	A cedar, 7 ins.diam.,bears N.73$\frac{1}{4}$°W., 114 lks. dist.,marked $\frac{S}{4}$ S 28 B T
	raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, W. of cor. No other suitable bearing trees available.
41.00	Ridge, bears NE. and SW. Descend over N. slope 110 ft.to
55.00	Enter hollow, bears NE. and SW,, drains N.75°E.
65.00	Leave hollow, bears E. and W. Ascend over S. slope.
70.00	Top of ascent and bench, bears E. and W. Enter heavier timber, bears E. and W. Gradually descend.
80.00	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
	T26S | R8W S21 | S22 S28 | S27 1916
	from which
	A cedar, 7 ins.diam.,bears N.82°E., 96 lks. dist.,marked T 26 S R 8 W S 22 B T
	A cedar, 8 ins.diam.,bears S.61$\frac{1}{2}$°E., 123 lks. dist.,marked T 26 S R 8 W S 27 B T
	A cedar, 10 ins.diam.,bears S.51$\frac{1}{2}$°W., 35 lks. dist.,marked T 26 S R 8 W S 28 B T
	A cedar, 6 ins.diam.,bears N.43°W., 27 lks. dist.,marked T 26 S R 8 W S 21 B T
	Land, hilly and rolling, general NE. exposure and drainage.
	Soil, deep, loose rich gravelly andsandy loam, with

chains	
	some clay; granite formation.
	Timber, cedar.
	Undergrowth, dense sagebrush, scattering oak and service berry brush. Good grazing land.

	N.89°55'E., on a random line bet. secs. 22 and 27
40.00	Set temp. ¼ sec. cor.
79.94	Intersect N. and S. line, 9 lks. S. of the cor. of secs. 22,23,26 and 27.
	Thence
	S.89°51'W., on true line bet. secs. 22 and 27
	Over gently rolling and broken volcanic land, through dense sagebrush undergrowth and scattering cedar timber. Gradually descend over bench.
9.50	Begin descent over steep, rocky W. slope, bears N. and S
17.40	Rocky gully, 140 ft. below cor., course N. Thence over N. slope
30.00	Enter main hollow, bears N.60°E. and SW., drains NE., also leave volcanic and enter granite formation, bears NE. and SW. Thence across hollow.
34.14	Old road, bears NE. and SW.
39.50	Enter dense cedar and pinon timber, bears NE. and SW.
39.97	In extreme W. edge of hollow, bears NE. and SW.
	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 S22 / S27 / 1916
	From which
	A cedar, 8 ins.diam., bears S.2½°W., 69 lks. dist., marked ¼ S 27 B T
	A cedar, 8 ins.diam., bears N.51½°E., 16 lks. dist., marked ¼ S 22 B T
	Gradually ascend over E. slope through dense timber.
79.94	160 ft. above ¼ sec. cor.
	The cor. of secs. 21,22,27 and 28.

Subdivision of T.26 S.;R.8 W.

chains	
	Land, rolling and broken, N. and NE. exposures and drainage.
	Soil, E. 30 chs., rocky, of volcanic formation and mixed with some clay and sandy loams, surface strewn with boulders: W. 50 chs. deep, rich, gravelly and clay loams, granite formation.
	Timber, cedar, scattering in E.½, dense in W½ mile.
	Undergrowth, dense sagebrush. Good grazing land.

	N.0°02'W., bet. secs. 21 and 22
	Over gently rolling land facing NE., through dense cedar timber and undergrowth of sagebrush.
40.00	On gentle NE. slope 90 ft. below 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 S21 | S22 1916
	from which
	A cedar, 14 ins.diam.,bears N.35°E., 5 lks. dist.,marked ¼ S 22 B T
	A cedar, 12 ins.diam.,bears N.88½°W., 28 lks. dist.,marked ¼ S 21 B T
60.00	Leave dense, enter scattering timber, bears E. and W.
80.00	On gentle W. slope 90 ft. below ¼ sec. cor.
	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
	T26S | R 8 W S16 | S15 S21 | S22 1916
	from which
	A cedar, 5 ins.diam.,bears N.80½°E., 175 lks. dist.,marked T 26 S R 8 W S 15 B T
	A cedar, 6 ins.diam.,bears S.69°E., 180 lks. dist.,marked T 26 S R 8 W S 22 B T

Subdivision of T.26 S.,R.8 W.

chains	
	A cedar, 8 ins.diam.,bears S.78°W., 169 lks. dist.,marked T 26 S R 8 W S 21 B T
	A cedar, 8 ins.diam.,bears N.79°W., 48 lks. dist.,marked T 26 S R 8 W S 16 B T
	Land, gently rolling, general NE. exposure and drainage.
	Soil, deep, loose, rich gravelly and clay loams, mixed with some rocks; granite formation.
	Timber, cedar, dense on S.$\frac{3}{4}$ and scattering on N.$\frac{1}{4}$ mile.
	Undergrowth, sagebrush. Good grazing.

	N.89°51'E., on a random line bet. secs. 15 and 22
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.92	Intersect N. and S. line 2 lks. N. of the cor. of secs 14, 15, 22 and 23.
	Thence
	S.89°52'W., on true line bet. secs. 15 and 22.
	Over rolling land draining N., through dense undergrowth of sagebrush. Gradually descend over nearly W. slope.
22.25	Wash, 8 lks. wide, 3 ft. deep, in main hollow, 40 ft. below sec. cor., course N.20°W. Thence across hollow.
34.70	Leave hollow, bears NW. and SE. Ascend E. slope 30 ft.to
39.00	Enter medium dense cedar timber, bears N. and S.
39.96	On E. slope
	Set a n iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{1}{4}$ S15 / S22 / 1916
	from which
	A cedar, 12 ins.diam., bears N.60°W., 52 lks. dist., marked $\frac{1}{4}$ S 15 B T
	A cedar, 14 ins.diam.,bears S.40½°W., 47 lks. dist., marked $\frac{1}{4}$ S 22 B T
41.00	Top of ascent, bears N. and S. Thence over gently rolling land sloping N.
63.00	Leave dense, enter scattering timber, bears N. and S.
78.77	Fence line, bears N. and S.

Subdivision of T.26 S.,R.8 W.

chains	
79.92	The cor. of secs. 15,16,21 and 22.
	Land, gently rolling and rolling, N. exposure and drainage.
	Soil, gravelly and clay loam, mixed with rock on gravelly and clay sub-soil.
	Timber, cedar on western portion of mile.
	Undergrowth, sagebrush. Good grazing.
	N.0°02'W., bet. secs. 15 and 16.
	Gradually descend over rolling land sloping NE., through dense undergrowth of sagebrush. A few scattering cedar on both sides of line. A fence line, bearing N. and S. bears E. about 2 chs.
15.00	Leave scattering cedar, bears E. and W.
23.90	The N. point of fence line bearing N. and S., bears E. about 2 chs.
40.00	30 ft. below 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 S16 | S15 1917
	dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.
57.00	Begin descent into shallow draw, bears NW. and SE.
80.00	In west edge, near bottom of large draw, 50 ft. below ¼ sec. cor.
	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 T26S | R8W S9 | S10 S16 | S15 1917
	dig pits, 18 x 18 x 12 ins. in each sec., 5½ ft. dist. from cor.
	Land, rolling, slopes NE. and drains N.

chains	
	Soil, shallow, sharp sand and gravel about 2 ft. deep, on hard, dry sand and gravel sub-soil.
	Timber, scattering cedar on S.15 chs.
	Undergrowth, sagebrush. Good grazing.

	N.89°52'E., on a random line bet. secs. 10 and 15.
40.00	Set temp. ¼ sec. cor.
79.90	Intersect N. and S. line 18 lks. N. of the cor. of secs. 10,11,14 and 15.
	Thence
	West, on true line bet. secs. 10 and 15.
	Over broken land through dense undergrowth of sagebrush. Descend over W. slope strewn with lava rock.
15.90	Bottom of draw, 50 ft. below cor., course NW., wash in same, 10 lks. wide, 2 ft. deep. Thence over nearly level bench land.
39.95	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 S10 / S15 / 1917 dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.
49.67	Road, Pine Creek to Antelope Springs, bears NW. and SE.
64.90	Leave bench, bears N. and S. Descend abruptly over W. slope into draw.
72.20	Bottom of draw and wash, 8 lks. wide, 6 ft. deep, 45 ft. below top of bench, course N. Gradually ascend.
79.90	The cor. of secs. 9,10,15 and 16.
	Land, rolling and broken benches, draining NW.
	Soil, rich sandy loam and gravelly, on hard, dry sand and gravel sub-soil. Eastern portion of mile very rocky of volcanic formation; western portion, granite formation.
	No timber.
	Undergrowth, sagebrush.

Subdivision of T.26 S.,R.8 W.

chains	
	N.0°02'W., bet. secs. 9 and 10.
	Over nearly level land in large draw draining N., through dense sagebrush.
12.20	Road, Pine Creek to Antelope Springs, bears E. and W. Road leaves draw about 3 chs. west.
26.90	Main bottom of draw and wash, 5 lks. wide, 3 ft. deep, course N.30°W.
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 S9 | S10 1917 dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.
	Leave draw, bears NW. and SE. Gradually ascend over SW. slope.
65.00	Narrow spur, 65 ft. above ¼ sec. cor., projects NW. Descend over NE. slope.
70.75	Draw, 40 ft. below spur, course NW. Enter lava rock outcroppings, bears E. and W. Ascend 55 ft. to
80.00	On S. slope in large lava rock boulders, near top of low point,
	Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground on solid rock and 12 ins. in a mound of stone for cor. of secs. 3,4,9 and 10, with brass cap marked T26S | R8W S4 | S3 S9 | S10 1917 raise a mound of stone, 2 ft. base; 1½ ft. high, W. of cor.
	Land, rolling and broken, general W. exposure; NW. drainage.
	Soil, sharp sandy loam and gravelly; N. ½ mile more rocky of volcanic formation; sub-soil, hard, dry sandy clay and gravelly.
	No timber.

chains	
	Undergrowth, sagebrush.
	East, on a random line bet. secs. 3 and 10.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.84	Intersect N. and S. line 26 lks. S. of the cor. of secs. 2,3,10 and 11.
	Thence
	S.89°49'W., on true line bet. secs. 3 and 10.
	Over hilly land draining N., through dense sagebrush.
	Gradually ascend.
20.00	Base of bench, bears N. and S. Ascend abruptly over rocky E. slope.
26.90	Ridge, 125 ft. above sec. cor., bears NW. and SE.
	Descend over nearly W. slope.
39.92	In bottom of large, wide, draw, drains NW., 85 ft. below ridge.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{\frac{1}{4}}{\frac{S3}{S10}}$ 1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Gradually ascend.
55.00	Top of west side of draw and edge of low bench, bears NW. and SE. Thence across bench.
79.84	The cor. of secs. 3,4,9 and 10.
	Land, broken hills, draining N.
	Soil, rocky of volcanic formation with considerable rich clay soil, on hard, dry clay and rocky sub-soil.
	No timber.
	Undergrowth, sagebrush. Fair grazing.
	N.0°02'W., on true line bet. secs. 3 and 4.
	Over rolling volcanic bench lands through dense sagebrush.
	Ascend.
.60	Low, lava rock point, projects NE. about 1 ch.

Subdivision of T.26 S.,R.8 W.

chains	
	Thence over land exposed to the west.
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 S4 | S3 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
42.60	Begin descent into small draw.
46.00	Draw, 30 ft. deep, course W. Ascend.
49.40	Small lava rock point, projects W. about 2 chs. Descend.
61.75	Draw, 20 ft. below point, course NW.
73,80	Shallow draw, heads about 3 chs. E. and drains W. Ascend.
84.00	Low ridge, 80 ft. above draw, bears E. and W. Descend 35 ft. to
89.07	Intersect the 5th. St. Par. S., 2.88 chs., N.89°17'E.of standard corner of secs. 33 and 34 heretofore described. At intersection, Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 3 and 4, with brass cap marked T25SR8W S34 S4 | S3 CC T26S 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor. Land, broken volcanic benches draining W. Soil, rocky of volcanic formation on rocky and clay sub-soil. No timber. Undergrowth, sagebrush. Fair grazing.
	From the cor. of secs. 32 and 33 on the S. bdy. of the tp. heretofore described.

Subdivision of T.26 S.,R.8 W.

chains	
	N.0°03'W., bet. secs. 32 and 33
	Over rolling mountainous land facing NE., through dense sagebrush. Descend over N. slope 50 ft. to
9.60	Hollow, 2 chs. wide, course E. Ascend S. slope of ridge.
40.00	On west slope, near top of ridge, 260 ft. above hollow. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{1}{4}$ S32 | S33 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
41.00	Top of ridge on W. slope, bears NW. and SE. Enter considerable oak and service-berry brush, bears E. and W. Descend over N. slope 150 ft. to
48.50	Ravine, course N.20°W. Thence along W. slope. Descend.
52.75	Enter scattering cedar timber, bears E. and W.
65.30	Main ravine, 260 ft. below ridge, course NE. Ascend 50 ft. to
72.40	Top of ascent on E. slope, bears W. Thence along E. slope over series of small spurs and gullies putting E.
77.20	Gully, 30 ft. deep, course E. Ascend.
79.00	Small spur, projects E. Descend 10 ft. to
80.00	On N. slope.
	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 cap marked
	T26S | R8W S29 | S28 S32 | S33 1916
	from which
	A cedar, 16 ins. diam., bears S.61°W., 317 lks. dist., marked T 26 S R 8 W S 32 B T
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	No other suitable trees available.

Subdivision of T.26 S.,R.8 W.

chains	
	Land, rolling mountainous, general E. exposure and drainage.
	Soil, gravelly, clay loam and stony of granite formation.
	Timber, scattering cedar on northern portion of mile.
	Undergrowth, sagebrush, oak and service berry brush.

	East, on a random line bet. secs. 28 and 33
40.00	Set temp. ¼ sec. cor.
79.88	Intersect the cor. of secs. 27,28,33 and 34.
	Thence
	West, on true line bet. secs. 28 and 33
	Over rolling mountainous land facing NE., through dense sagebrush and scattering oak and service-berry brush. Descend over W. slope 70 ft. to
5.45	Bottom of main hollow, 2 chs. wide, course N.10°E. Old road in same, bears N.10°E. and S.10°W. Ascend over broken E. slope 370 ft. to
24.80	Ridge, bears NE. and SW. Gradually descend.
35.60	Gully, 15 ft. deep, course NE. Ascend over SE. slope 60 ft. to
39.94	On SE. slope, near top of spur,
	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 S28 / S33 / 1916
	from which
	A cedar, 6 ins.diam.,bears S.87½°W., 283 lks. dist.,marked ¼ S 33 B T
	A cedar, 10 ins.diam.,bears N.40½°W., 208 lks. dist.,marked ¼ S 28 B T
	Ascend 20 ft. to
44.30	Spur, projects NE. Descend.
53.90	Small gully, course NE. Ascend 40 ft. to
56.70	Spur, projects NE. Descend 65 ft. to
59.35	Main ravine, course from the W. to NE. Thence in same.
64.00	Leave ravine, course from the SW. to E. Ascend along S. slope.

Subdivision of T.26 S.,R.8 W.

chains	
76.30	Branch ravine, course S.80°E.Thence along NE. slope.
79.88	120 ft. above ravine at 64.00 chs. The cor. of secs. 28,29,32 and 33.
	Land, rolling mountainous, general NE. exposure and drainage.
--	Soil, gravelly and stony, mixed with some rich clay loam.
	Timber, scattering cedar.
	Undergrowth, sagebrush, scattering oak and service-berry.

	N.0°03'W., bet. secs. 28 and 29.
	Over mountainous land through dense sagebrush, scattering oak and service berry brush. Descend.
.75	Small draw, 15 ft. deep, course NE. to large ravine.
3.20	Ravine, drains S.80°E. Ascend over S. slope 260 ft. to
15.70	High ridge, bears N.70°E. and S.70°W.; enter scattering cedar timber, bears with ridge. Descend abruptly over NW. slope 330 ft. to
35.35	Ravine, course N.80°E. Ascend S. slope 65 ft. to
40.00	On top of small spur, projects E.
	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 S29 | S28 1916
	from which
	A cedar, 7 ins.diam.,bears S.14½°W., 45 lks. dist.,marked ¼ S 29 B T
	A cedar, 5 ins.diam.,bears N.88½°E., 79 lks. dist.,marked ¼ S 28 B T
	Descend 35 ft. to
42.25	Ravine, course N.80°E. Ascend S. slope 55 ft. to
48.50	Spur, projects N.70°E.
	Descend 15 ft. to
57.50	Ravine, course E. Ascend S. slope of high ridge, 180 ft.
69.50	On W. slope of high point of ridge, bears E. and W.
	Descend abruptly over NW. slope 210 ft. to

Subdivision of T.26 S.,R.18 W.

chains	
80.00	On NW. slope.
	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
	T26S | R8W S20 | S21 S29 | S28 1916
	from which
	A cedar, 18 ins.diam.,bears N.87¼°E., 171 lks. dist.,marked T 26 S R 8 W S 21 B T
	A cedar, 16 ins.diam., bears S.¾°E.,180 lks. dist.,marked T 26 S R 8 W S 28 B T
	A pinon, 20 ins.diam.,bears S.48°W., 73 lks. dist.,marked T 26 S R 8 W S 29 B T
	A cedar, 11 ins.diam.,bears N.65°W., 141 lks. dist.,marked T 26 S R 8 W S 20 B T
	Land, mountainous, general NE. exposure and drainage.
	Soil, gravelly and stony of granite formation, mixed with some clay loam.
	Timber, scattering cedar with a few pinon on N.64.30 chs.
	Undergrowth, dense sagebrush with scattering oak and service-berry brush. Good grazing land.

	East, on a random line bet. secs. 21 and 28.
40.00	Set temp. ½ sec. cor.
79.83	Intersect N. and S. line, 5 lks. N. of the cor. of secs. 21,22,27 and 28
	Thence
	N.89°58'W., on true line bet. secs. 21 and 28.
	Over gently rolling land draining N., through scattering cedar timber and undergrowth of dense sagebrush, scattering oak and service-berry brush.
5.00	Timber becomes very scattering, bears N. and S.
39.91½	On gentle NE. slope, 100 ft. above 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

Subdivision of T.26 S.,R.8 W.

chains	
	$\frac{1}{4}$ S21 / S28 / 1916
	from which
	A cedar, 5 ins.diam.,bears N.12°W., 185 lks. dist.,marked $\frac{1}{4}$ S 21 B T
	A cedar, 6 ins.diam.,bears S.28½°E., 83 lks. dist.,marked $\frac{1}{4}$ S 28 B T
52.00	Enter rolling mountainous land, bears NW. and S.20°E. Ascend over NE. slope.
55.50	Gully, 20 ft. deep, course N. Ascend
78.00	Top of ascent on N. slope, 225 ft. above gully, bears N. and S. Descend over W. slope 15 ft. to
79.83	The cor. of secs. 20,21,28 and 29
	Land, E. 52.00 chs., gently rolling, remainder of mile mountainous; general NE. exposure and drainage.
	Soil, gravelly, clay loam and rocky of granite formation.
	Timber, scattering cedar.
	Undergrowth, sagebrush, scattering oak and service-berry brush. Good grazing.

	N.0°03'W., bet. secs. 20 and 21
	Over rolling mountainous land through scattering cedar timber and undergrowth of sagebrush, scattering oak and service-berry brush. Descend N. and NW. slopes.
15.60	Hollow, near mouth of same, 220 ft. below cor., course N.80°E. Gradually ascend over SE. slope.
40.00	On top of ascent on E. slope, 40 ft. above hollow, bears E. and W.
	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{1}{4}$ S20 | S21 1916
	from which
	A cedar, 8 ins. in dia., bears S.13½E.,56 lks. dist.,marked $\frac{1}{4}$ S 21 B T

chains

A cedar, 6 ins.diam.,bears S.38¾°W., 38 lks. dist.,marked ¼ S 20 B T

Gradually descend over rolling NE. slope at foot of mountain.

80.00 On gentle E. slope, 230 ft. below ¼ sec. cor.

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

T26S | R8W
S17 | S16
S20 | S21

1916

from which

A cedar, 18 ins.diam.,bears N.59½°E., 449 lks. dist.,marked T 26 S R 8 W S 16 B T

A cedar, 5 ins. diam.,bears S.2½°E., 159 lks. dist.,marked T 26 S R 8 W S 21 B T

A cedar, 4 ins.diam.,bears S.67°W., 210 lks. dist.,marked T 26 S R 8 W S 20 B T

A cedar, 5 ins.diam.,bears N.73°W., 245 lks. dist.,marked T 26 S R 8 W S 17 B T

Land, rolling mountainous, general NE. exposure and drainage.

Soil, deep clay loam, mixed with gravel and rock; granite formation.

Timber, scattering cedar.

Undergrowth, dense sagebrush with scattering oak and service berry brush. Good grazing land.

S.89°58'E., on a random line bet. secs. 16 and 21.

40.00 Set temp. ¼ sec. cor.

79.82 Intersect N. and S. line, 2 lks. S. of the cor. of secs. 15,16,21 and 22.

Thence

N.89°59'W., on true line bet. secs. 16 and 21.

Over rolling land sloping NE., through scattering cedar timber and undergrowth of sagebrush.

chains	
39.91	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{1}{4}$ S16 / S21 1916 from which A cedar, 8 ins.diam.,bears S.5$\frac{3}{4}$°E., 293 lks. dist.,marked $\frac{1}{4}$ S 21 B T No other trees available. dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist. Gradually ascend.
65.67	Old road, bears N.30°W. and S.30°E.
79.82	The cor. of secs. 16,17,20 and 21 Land, rolling, general NE. exposure and drainage. Soil, deep, dark, rich gravelly and clay loams; granite formation. Timber, few scattering cedar. Undergrowth, dense black sagebrush. Good grazing.

	N.0°03'W., bet. secs. 16 and 17 Over rolling mountainous land through scrub cedar and pinon timber and undergrowth of sagebrush and juniper. Along E. slope, near base of mountain.
37.80	Old road, bears NW. and SE.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{1}{4}$ S17 | S16 1917 from which A cedar, 6 ins.diam.,bears S.69$\frac{1}{2}$°E., 317 lks. dist.,marked $\frac{1}{4}$ S 16 B T A cedar, 4 ins.diam.,bears N.54°W., 296 lks. dist.,marked $\frac{1}{4}$ S 17 B T
80.00	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

Subdivision of T.26 S.,R.8 W.

chains	
	T26S | R8W S8 | S9 S17 | S16 1917
	from which
	A cedar, 8 ins.diam.,bears N.42½°E., 783 lks. dist.,marked T 26 S R 8 W S 9 B T
	A cedar, 7 ins.diam.,bears S.48°E., 234 lks. dist.,marked T 26 S R 8 W S 16 B T
	A cedar, 9 ins.diam.,bears S.44°35'W., 722 lks. dist.,marked T 26 S R 8 W S 17 B T
	A cedar, 10 ins.diam.,bears N.46°W., 331 lks. dist.,marked T 26 S R 8 W S 8 B T
	Land, rolling mountainous, NE. exposure and drainage.
	Soil, sandy loam, mixed with coarse, sharp gravel of granite formation, on hard, dry sand and gravel sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush and juniper.

	S.89°59'E., on a random line bet. secs. 9 and 16.
40.00	Set temp. ¼ sec. cor.
79.70	Intersect N. and S. line 6 lks. N. of the cor. of secs. 9,10,15 and 16.
	Thence
	N.89°56'W., on true line bet. secs. 9 and 16.
	Over rolling land draining N., through dense undergrowth of sagebrush. Ascend from bottom of draw over E. slope.
7.50	Top of west brink of draw and enter gently rolling bench, 35 ft. above cor., bears N. and S. Thence across bench.
39.85	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 S9 S16 1917 dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. distant.
	Gradually ascend over gentle NE. slope at foot of mountain.

chains	
79.70	The cor. of secs. 8,9,16 and 17, 50 ft. above ¼ sec. cor. This cor. stands in N. edge of scattering cedar and pinon timber bearing NW. and SE.
	Land, E.½ mile rolling bench; W.½ mile gentle E. slope of mountain; drainage N.
	Soil, rich sandy clay loam and sharp coarse gravel, quartz formation on dry sand and gravel sub-soil.
	Timber, a few scattering cedar on W.½ mile.
	Undergrowth, sagebrush. Fair grazing.

	N.0°03'W., bet. secs. 8 and 9.
	Gradually descend over rolling land sloping NE., through dense sagebrush. A few scattering cedar on both sides of line.
40.00	50 ft. below 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 / S8 | S9 / 1917
	dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.
48.70	Foot of slope, bears NW. and SE., also shallow draw, course NW. Thence over rolling bench.
66.10	Road, Pine Creek to Antelope Springs, bears NW. and SE.
80.00	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
	T26S | R8W / S5 | S4 / S8 | S9 / 1917
	dig pits, 18 x 18 x 12 ins. in each sec., 5½ ft. distant from post.
	Land, rolling, N. and NE. exposure; drainage N.
	Soil, gravelly, quartz formation and rich, sandy clay loam, on hard, dry sandy clay sub-soil.
	Timber, a few scattering cedar on both sides of line in

chains	
	the S.½ mile.
	Undergrowth, sagebrush. Good grazing.

	S.89°56'E., on a random line bet. secs. 4 and 9.
40.00	Set temp. ¼ sec. cor.
79.70	Intersect N. and S. line, 2 lks. N. of the cor. of secs. 3,4,9 and 10.
	Thence
	N.89°55'W., on true line bet. secs. 4 and 9.
	Over broken volcanic bench lands through dense undergrowth of sagebrush. Ascend.
.85	Rocky point, projects N.70°E. and SW. about 5 chs. Descend over W. slope.
14.95	Bottom of large draw and wash, 10 lks. wide, 10 ft. deep, 70 ft. below point, course N. Leave volcanic formation, enter gravelly granite formation. Ascend.
22.30	Top of ascent and west edge of draw, 60 ft.above bottom, bears NW. and SE. Thence over rolling bench.
25.80	Old road, bears N.30°W. and S. Road very dim to the S.
39.85	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 S4/S9 1917 dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. distant.
79.70	The cor. of secs. 4,5,8 and 9.
	Land, rolling and broken benches, general N. exposure and drainage.
	Soil of benches, rich sandy loam and gravelly on hard, dry sandy sub-soil. Soil of slopes, rocky of volcanic formation.
	No timber.
	Undergrowth, sagebrush. Good grazing.

	N.0°03'W., on true line bet. secs. 4 and 5.
	Over gently rolling bench land through dense undergrowth of sagebrush.

Subdivision of T.26 S.,R.8 W.

chains	
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 S5 | S4 1917 dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.
80.30	Old road, bears NE. and SW.
88.32	Intersect 5th. St. Par. S., 6.49 chs. N.89°58'E. of the standard cor. of secs. 32 and 33, heretofore described. At intersection, Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 4 and 5, with brass cap marked T25SR8W S33 S5 | S4 CC T26S 1917 dig pits, 24 x 18 x 12 ins., crosswise on each line, E. and W. 3 ft., and S. of post, 7 ft. distant. Land, gently rolling bench, drains N. Soil, rich sandy loam and gravelly of granite formation, on hard, dry sandy clay sub-soil. No timber. Undergrowth, sagebrush. Good grazing.
	From the cor. of secs. 31 and 32 on the S. bdy. of the tp. heretofore described. N.0°03'W., bet. secs. 31 and 32. Over high mountainous land through dense undergrowth of sagebrush and scattering oak. Gradually ascend over S. slope.
24.25	Top of ridge, 200 ft. above sec. cor., bears E. and W. The line crosses the east edge of granite pinnacles on ridge. Enter dense oak, scattering mahogany, service-berry and maple undergrowth, bears E. and W. Descend

Subdivision of T.26 S., R.8 W.

chains	
	abruptly over N. slope.
34.00	Ravine, 165 ft. below ridge, heads about 6 chs. SW. and drains NE. Leave dense oak brush, bears NE. and SW. Gradually ascend over SE. slope25 ft. to
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 S31 | S32 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
41.20	Low point, projects N.80°E. Descend.
43.00	Draw, 30 ft. below point, course E. Ascend abruptly over S. slope.
51.25	Spur, 90 ft. above draw, projects S.80°E. Thence along broken E. slope, crossing heads of numerous unimportant draws draining E.
80.00	On top of high ridge spur, about level with spur at 51.25 chs. 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 T26S | R8W S30 | S29 S31 | S32 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Land, mountainous, general NE. exposure and drainage. Soil, gravelly and hard, dry sandy clay loam, on very hard and dry clay sub-soil; granite formation. No timber. Undergrowth, sagebrush, oak, mahogany, service-berry and maple. Fair grazing.
	East, on a random line bet. secs. 29 and 32
40.00	Set temp. ¼ sec. cor.

Subdivision of T.26 S.,R.8 W.

chains	
79.77	Intersect N. and S. line 2 lks. S. of the cor. of secs. 28,29,32 and 33.
	Thence
	S.89°59'W., on true line bet. secs. 29 and 32.
	Over mountainous land through scattering cedar and pinon timber and undergrowth of dense oak and sagebrush.
	Gradually ascend along N. slope of small draw.
4.75	Shallow draw, drains N.80°E. Ascend over E. and SE. slope
14.50	Low spur, 110 ft. above cor., projects SE. Leave dense oak brush, bears NW. and SE. Descend over W. slope.
17.60	Shallow draw, 15 ft. below spur, course S. Ascend abruptly over rocky SE. slope.
28.70	Top of ascent on S. slope of rocky point of spur, 135 ft. above draw. Gradually descend along rolling S. slope
32.50	Leave scattering cedar timber, bears N. and S.
39.88½	On S. slope.
	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 S29 / S32 / 1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
48.45	Point, projects S. about 7 chs. to draw. Descend over SW. slope.
60.90	Main draw, 55 ft. below point, course SE. Gradually ascend in draw.
66.30	Leave draw, bears NW. and SE. Ascend abruptly over steep E. and SE. slopes, 300 ft. to
79.77	The cor. of secs. 29,30,31 and 32.
	Land, rough mountainous, general E. exposure and drainage. Soil, gravelly and rocky of quartz formation with some shallow clay soil, on hard, dry clay and rocky sub-soil.
	Timber, scattering cedar on eastern portion of mile. Undergrowth, sagebrush and oak brush. Good grazing.

Subdivision of T.26 S.,R.8 W.

chains	
	Knowing that closing cors. will be necessary upon the West boundary of the tp., I run West, on true line bet. secs. 30 and 31.
	Over rough mountainous land draining E., through dense undergrowth of sagebrush, mahogany, oak and service-berry brush. Descend abruptly over NW. slope of spur.
4.70	Draw, 35 ft. below cor., course NE. Ascend abruptly over rocky E. and SE. slopes. Mahogany undergrowth becomes very dense.
19.00	A granite point, about 50 ft. high, bears S. about 1 ch.
29.00	Spur, 420 ft. above draw, projects S. Gradually descend along S. and SW. slopes through dense mahogany.
40.00	In east edge of bottom of draw, draining SE., 90 ft. below spur.
	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 S30 / S31 1917 from which A mahogany, 8 ins.diam.,bears N.77½°E., 63 lks mdist.,marked ¼ S 30 B T A mahogany, 8 ins.diam.,bears S.38½°E., 29 lks. dist.,marked ¼ S 31 B T
40.95	Draw, 5 ft. below ¼ sec. cor., course SE. Leave dense mahogany, bears N. and S. Ascend over E. slope.
53.90	Top of ridge and divide of Antelope mountain, 190 ft. above draw, bears NW. and SE. Descend.
55.00	Draw, 20 ft. below divide, heads about 3 chs. N. and drains SW. Ascend.
58.75	Spur, 20 ft. above draw, projects SW. Descend abruptly over W. slope.
64.10	Draw, 140 ft. below spur, heads about 4 chs. NE. and drains SW. Enter scattering cedar timber, bears NE. and SW. Thence along S. slope of spur.
70.60	Spur, 15 ft. above draw, projects S. about 4 chs., thence SW.

chains

Descend. over SW. slope.

78.45 Point of spur, falls S.80°W. Descend abruptly over W. slope.

81.15 Enter very dense mahogany undergrowth, bears N. and S.

92.80 400 ft. below spur at 70.60 chs. on rocky west slope amongst large granite boulders and ledges.

Intersect W. bdy. of the tp. 10.20 chs. S. of the cor. of secs. 25,30,31 and 36 which is an iron post, 3 ins. in dia., extending 12 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. At intersection,

Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground on solid rock and 12 ins. in a mound of stone for closing cor. of secs. 30 and 31, with brass cap marked

T26S
R9W | R8W
S36 | S30
CC
S31
1917

from which

A mahogany, 6 ins.diam.,bears N.77½°E., 210 lks. dist.,marked C C T 26 S R 8 W S 30 B T

A mahogany, 4 ins.diam.,bears S.63°E., 112 lks. dist.;marked C C T 26 S R 8 W S 31 B T

Note: Iodestroy all marks on old cor. of secs. 25,30,31 and 36 pertaining to R.8 W.

Land, high, rough mountainous with general E. and W. exposure and drainage from divide at 53.90 chs.

Soil, gravelly and rocky of quartz formation and some shallow clay loam soil; on gravelly and rocky sub-soil.

Timber, scattering cedar on both sides of line.

Undergrowth, dense mahogany, sagebrush, oak and servide-berry brush. Fair grazing.

From the cor. of secs. 29, 30, 31, and 32,
N.0°03'W., bet. secs. 29 and 30.

chains	
	Over rough mountainous land through dense undergrowth of sagebrush, oak, mahogany and service-berry brush. Descend abruptly over N. slope.
7.55	Draw, 175 ft. below sec. cor., course N.80°E.; joins draw from the north about 5 chs. E. Leave mahogany and oak brush, bears N.80°E. and S.80°W. Ascend.
12.10	Spur, 15 ft. above draw, projects E. about 3 chs. Descend.
14.55	Shallow draw, 30 ft. below spur, course E. Ascend over low point, then descend.
25.50	Main draw, course SE. about 2 chs., thence S. Ascend abruptly.
30.10	Ridge, 65 ft. above draw, bears E. and W. Enter dense mahogany and oak brush, bears E. and W. Descend abruptly.
40.00	On N. slope, 125 ft. below ridge.
	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 S30 | S29 1917
	from which
	A mahogany, 7 ins.diam.,bears S.77°E.,119 lks. dist.,marked ¼ S 29 B T
	No other trees available.
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Continue descent.
45.50	Draw, 75 ft. below ¼ sec. cor., course E. Leave dense undergrowth, bears E. and W. Ascend abruptly over S. slope.
59.20	Ridge, 175 ft. above draw, bears E. and W. A low saddle in ridge, bears E. about 3 chs. distant. Rocky quartz peaks on ridge bear east about 8 chs. and west about 20 chs. Enter dense mahogany undergrowth, bears E. and W. Descend abruptly over N. slope.

Subdivision of T.26 S.,R.8 W.

chains	
80.00	Base of descent and S. edge of wide basin, 270 ft. below ridge; leave dense mahogany undergrowth, bears E. and W.
	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
	T26S | R8W S19 | S20 S30 | S29 1917
	dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. distant from post.
	Land, rough mountainous, with N. and S. slopes of ridges and spurs into draws draining E.; general E. exposure.
	Soil, gravelly and sandy loam, very dry, on hard, dry sand and gravel sub-soil.
	No timber.
	Undergrowth, sagebrush, mahogany, oak, service-berry and maple. Fair grazing.

	N.89°59'E., on a random line bet. secs. 20 and 29.
40.00	Set temp. ¼ sec. cor.
79.72	Intersect N. and S. line 4 lks. S. of the cor. of secs. 20,21,28 and 29.
	Thence
	S.89°57'W., on true line bet. secs. 20 and 29.
	Over mountainous land through cedar and pinon timber and undergrowth of sagebrush, scattering oak and service berry brush. Descend over NW. slope.
7.90	Draw, 35 ft. below cor., course N.30°E. Ascend abruptly over E. slope.
15.70	Top of steep ascent, bears NW. and S. Gradually ascend over nearly N. slope.
18.30	Spur, 160 ft. above draw, projects N. Descend abruptly over W. slope.
24.25	Draw, 75 ft. below spur, heads about 8 chs. S. and drains N. Leave timber, bears N. and S. and enter heavier oak brush, Ascend over NE. slope.

Subdivision of T.26 S.,R.8 W.

chains	
36.90	Point, 100 ft. above draw, projects N.
	Gradually descend along N. slope.
39.86	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 S20 / S29 1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
45.50	Shallow draw, 10 ft. below ¼ sec. cor., course NE.
	Gradually ascend along S. side of wide basin through dense sagebrush and oak brush, some scattering mahogany.
79.72	325 ft. above draw.
	The cor. of secs. 19,20,29 and 30.
	Land, mountainous, general NE. exposure and drainage.
	Soil, gravelly and sandy loam, very dry; on hard, dry sand and gravelly sub-soil.
	Timber, cedar and pinon on eastern portion of mile.
	Undergrowth, sagebrush, oak, mahogany and service-berry. Good grazing.

	West, on true line bet. secs. 19 and 30.
	Over mountainous land through dense undergrowth of sagebrush, oak brush and scattering patches of dense mahogany. Gradually ascend over E. slope along S. side of wide basin.
20.00	High peak on ridge, bears S. about 20 chs.
29.60	Leave basin, bears NW. and S.80°E. Ascend abruptly over NE. slope towards high divide. Large granite boulders on both sides of line.
40.00	On nearly E. slope, 700 ft. above 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 S19 / S30 1917
	from which

Subdivision of T.26 S.,R.8 W.

chains	
	A mahogany, 8 ins.diam.,bears S.85¾°E., 74 lks. dist.,marked ¼ S 30 B T
	A mahogany, 7 ins.diam.,bears N.67¼°W., 56 lks. dist.,marked ¼ S 19 B T
	Continue ascent.
42.40	Rocky point, 760 ft. above sec. cor., projects E.
	Descend.
44.70	Draw, near head, 20 ft. below point, course NE. Ascend.
49.50	Spur, 125 ft. above draw, projects NE. Descend.
51.00	Head of draw, 15 ft. below spur, course NE. Ascend.
54.60	Top of ridge divide of Antelope mountain, 25 ft. above draw, bears N. and S. Descend over open W. slope.
61.85	Draw, heads about 2 chs. S., drains NW. Ascend.
65.70	Point of spur, projects NW. Descend abruptly over NW. slope through dense mahogany undergrowth.
80.00	Descend abruptly over W. slope.
92.70	On W. slope in edge of dense mahogany undergrowth, 725 ft. below top of divide.
	Intersect W. bdy. of the tp., 10.10 chs. south of the cor. of secs. 19,24,25 and 30 which is an iron post, 3 ins. in dia., extending 12 ins. above ground, firmly set,and marked and witnessed as described by the surveyor general.
	At intersection,
	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

T26S
R9W | R8W
S19
S25 ——CC
S30

1917

from which

A mahogany, 4 ins.diam.,bears N.58¾°E.,217 lks dist.,marked C C T 26 S R 8 W S 19 B T

A mahogany, 3 ins.diam.,bears S.76°E., 175 lks dist.,marked C C T 26 S R 8 W S 30 B T

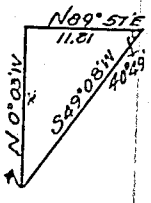
chains	
	I destroy all marks on old cor. pertaining to R.8 W.
	Land, rough mountainous, general E. and W. exposure and drainage from divide at 54.60 chs.
	Soil, shallow sandy loam, gravelly and rocky of granite formation, on hard, dry sandy and rocky sub-soil.
	No timber.
	Undergrowth, mahogany, oak, sagebrush and service-berry brush. Fair grazing.
	From the cor. of secs. 19, 20, 29, and 30, N.0°03'W., bet. secs. 19 and 20.
	Over mountainous land through dense sagebrush and oak brush. Gradually descend along E. slope across wide basin.
15.70	Leave basin, enter mahogany undergrowth and cedar and pinon timber, bears E. and W. Ascend over rocky SE. slope.
24.80	Spur, 75 ft. above basin, projects E. A rocky bluff, bears W. 25 lks. Descend.
29.15	Draw, 30 ft. below spur, course E. Ascend abruptly.
40.00	On rocky E. slope. 125 ft. above draw.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in a mound of stone on solid rock for ¼ sec. cor., with brass cap marked
	¼ S19 | S20 1917
	from which
	A pinon, 12 ins.diam.,bears S.37½°E., 50 lks. dist.,marked ¼ S 20 B T
	A mahogany, 12 ins. diam.,bears N.24½°W., 97 lks. dist.,marked ¼ S 19 B T
41.80	Top of ascent on E. slope of ridge. Descend.
43.00	Ridge, bears NE. and SW. A low saddle in ridge about 2 chs. NE., ridge then turns E. Peaks on ridge about 10 chs. E. and 5 chs. SW. Descend over NW. slope.
54.55	Head of draw, 200 ft. below ridge, course N.80°W.

chains

Ascend 20 ft. to

56.27 High granite point of ridge spur and ledge about 250 ft. high, projects NW. about 2 chs.; down which I cannot chain, I therefore triangulate as follows:

Set a flag on line N.0°03'W. and erect a flag at this point, then from north flag measure a base line N.89°57'E., 11.81 chs. to a point where S. flag bears S.49°08'W., therefore tan. 40°49' x base or



Log.tan 40°49' = 9.936355
Log. 11.81 = 1.072250
Log. no. 1.008605 = 10.20 chs.

which added to 56.27 chs. gives

66.47 To point of triangulation.

The approximate topography north from point at 56.27 chs. is:

Descend abruptly over ledges.

58.00 Base of ledges about 250 ft. high, bears NW. about 2 chs. and SE. Continue steep descent.

65.00 Draw, 375 ft. below top of ledges, course N.80°E. Ascend.

66.47 Point of triangulation.

75.00 Ridge, 130 ft. above draw, bears E. and W.

Descend abruptly over N. slope.

80.00 On N. slope,140 ft. below ridge.

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

T26S	R8W
S18	S17
S19	S20

1917

from which

A cedar, 6 ins.diam.,bears N.58°E., 55 lks. dist.,marked T 26 S R 8 W S 17 B T

A mahogany, 5 ins.diam.,bears S.67½°E., 64 lks dist.,marked T 26 S R 8 W S 20 B T

A mahogany, 5 ins.diam.,bears S.61¼°W., 55 lks dist.,marked T 26 S R 8 W S 19 B T

A cedar, 8 ins.diam.,bears N.43°W., 74 lks.

Subdivision of T.26 S.,R.8 W.

chains	
	dist.,marked T 26 S R 8 W S 18 B T
	Land, rough, broken mountains, with steep slopes into draws draining E. General E. exposure.
	Soil, rocky of granite formation with some sandy loam soil, on hard, dry sandy and rocky sub-soil.
	Timber, scattering cedar and pinon on northern portion of mile.
	Undergrowth, sagebrush, mahogany, oak, service berry and a few maples. Fair grazing.
	N.89°57'E., on a random line bet. secs. 17 and 20.
40.00	Set temp. ¼ sec. cor.
79.70	Intersect the cor. of secs. 16,17,20 and 21.
	Thence
	S.89°57'W., on true line bet. secs. 17 and 20.
	Gradually ascend over rolling mountainous land sloping E. through scattering cedar and pinon timber and undergrowth of sagebrush and juniper.
29.70	Enter dense cedar and pinon timber, bears N. and S.
39.85	On gentle E. slope, 225 ft. above 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 S17 / S20 / 1917
	from which
	A cedar, 15 ins.diam.,bears N.45°W., 11 lks. dist.,marked ¼ S 17 B T
	A cedar, 6 ins.diam.,bears S.21°W., 34 lks. dist.,marked ¼ S 20 B T
44.55	Base of E. point of ridge bearing S.80°W. and enter rough mountainous land, bears N. and S., also enter dense oak and mahogany undergrowth and leave dense cedar and pinon timber, bears N. and S. Ascend over NE. slope.
65.40	Spur, 175 ft. above ¼ sec. cor., projects N. Gradually ascend along nearly N. slope 130 ft. to

Subdivision of T.26 S.,R.8 W.

chains	
79.70	The cor. of secs. 17,18,19 and 20.
	Land, west 35.15 chs. rough mountainous with general NE. exposure and E. drainage; balance of mile rolling mountainous, E. exposure and drainage.
	Soil, gravelly, gray granite formation and mixed with dry sandy loam, on hard, dry sandy and gravelly sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush, oak, mahogany, juniper and service-berry. Fair grazing.
	West, on true line, bet. secs. 18 and 19
	Over mountainous land through scattering cedar and pinon timber and undergrowth of sagebrush, mahogany and oak brush. Ascend along N. slope.
3.60	Draw, heads about 4 chs. SW. and drains N.80°E. Ascend abruptly over E. slope.
13.35	Spur, 350 ft. above sec. cor., projects NE. Spur projects from ridge about 3 chs. S. and which bears about E. and W. Thence along N. slope. Mahogany undergrowth becomes very dense.
16.50	Begin steep descent over NW. slope.
24.20	Draw, 200 ft. below spur, heads about 2 chs. S. and drains N. Ascend over NE. slope.
33.20	Spur, 80 ft. above draw, projects N. Gradually descend along N. slope 35 ft. to
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 S18 / S19 1917 from which
	A mahogany, 3 ins.diam., bears N.63½°E., 71 lks. dist., marked ¼ S 18 B T
	A mahogany, 6 ins.diam., bears S.81°E., 104 lks. dist., marked ¼ S 19 B T

Subdivision of T.26 S.,R.8 W.

chains	
41.80	Shallow draw, 10 ft. below $\frac{1}{4}$ sec. cor., heads about 5 chs. S., course NE. Ascend.
44.90	Point of spur, 70 ft. above draw, projects NE. Gradually descend.
46.35	Draw, 35 ft. below spur, course N. Ascend.
48.10	Spur, 25 ft. above draw, projects NE. Descend.
48.80	Main draw, course N.80°E. Ascend over SE. slope.
51.75	Point, 65 ft. above draw, falls S. Descend.
53.55	Main draw, heads about 6 chs. NW. and drains SE. Ascend abruptly over E. slope.
61.50	Top of ridge divide of Antelope mountain, 350 ft. above draw, bears N. and S. Gradually descend.
70.00	Head of draw, course NW. Gradually ascend.
76.20	Spur, 25 ft. above draw, projects NW. Gradually descend over SW. slope 100 ft. to
85.50	Spur, projects SW. Descend abruptly NW. slope over granite ledges, 260 ft. to
92.50	The point for closing cor. of secs. 18 and 19 will fall on granite ledge where cor. cannot be set, therefore at this point,

Set an iron post, 3 ft. long, 2 ins. in dia., 6 ins. in the ground on solid rock and 18 ins. in a mound of stone for witness corner to the closing cor. of secs. 18 and 19, with brass cap marked

T26S
R9W | R8W
S18 WC
S24 ——CC
S19
1917

from which

An oak, 6 ins.diam.,bears N.13½°E., 69 lks. dist.,marked W C C C T26SR8WS18BT

An oak, 6 ins.diam.,bears S.84°E., 93 lks. dist.,marked W C C C T26 S R 8 W S 19 B T

The true cor. point for closing cor. of secs. 18 and 19, bears west .05 chs.

Subdivision of T.26 S.,R.8 W.

chains	
92.55	Intersect west bdy. of the tp., 10.33 chs. south of the cor. of secs. 13,18,19 and 24 which is an iron post, 3 ins. in dia., extending 12 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. At intersection,
	Point for closing cor. of secs. 18 and 19 falls on ledge where cor. cannot be set. Witness cor. established 5 lks. East.
	I destroy all marks on old cor. pertaining to R.8 W.
	Land, rough mountainous with general E. and W. exposure and drainage from divide at 66.50 chs.
	Soil, rocky of granite formation, with some shallow sandy soil, on hard, dry sand and rocky sub-soil.
	Timber, scattering cedar and pinon.
	Undergrowth, dense oak, mahogany and sagebrush with scattering service-berry brush. Fair grazing.
	From the cor. of secs. 17, 18, 19, and 20, N.0°03'W., bet. secs. 17 and18
	Over rough mountainous land through scattering cedar and pinon timber and undergrowth of sagebrush, oak and mahogany. Descend.
1.70	Draw, 35 ft. below sec. cor., course E. Ascend abruptly over S. slope.
10.50	Spur, 90 ft. above draw, projects E. Descend abruptly over N. slope.
24.20	Bottom of draw, 350 ft. below ridge, course NE. Thence across bottom of wide draw, gradually descending.
36.40	Base of descent in draw, 450 ft. below ridge, drains E. Ascend.
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

S18 | S17

1917

from which

A cedar, 3 ins.diam.,bears S.8°38'W., 370 lks. dist.,marked ¾ S 18 B T

Subdivision of T.26 S.,R.8 W.

chains

A cedar, 4 ins.diam.,bears N.42°E., 176 lks. dist.,marked ¼ S 17 B T

59.00 Ridge, 250 ft. above ½ sec. cor., bears E. and W. A low saddle in ridge, bears W. about 5 chs/ dist. Descend abruptly over N. and NE. slope. Leave cedar and pinon timber, bears E. and W.

73.80 Draw, 400 ft. below ridge, course E. Gradually ascend over SE. slope 30 ft. to

80.00 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

T26S	R8W
S7	S8
S18	S17

1917

from which

A cedar, 4 ins.diam.,bears S.45½°W., 53 lks. dist.,marked T 26 S R 8 W S 18 B T

A cedar, 4 ins.diam.,bears N.14¼°W., 49 lks. dist.,marked T 26 S R 8 W S 7 B T

No other trees available.

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

Land, rough mountainous with N. and S. slopes of ridges and spurs into draws draining E. Slopes steep and rocky. General exposure E.

Soil, shallow sandy loam, gravelly and rocky of granite formation, on gravelly and rocky sub-soil.

Timber, scattering cedar and pinon.

Undergrowth, sagebrush, mahogany, oak and service-berry brush. Fair grazing.

N.89°59'E., on a random line bet. secs. 8 and 17 for signal set at the cor. of secs. 8,9,16 and 17.

40.00 Set temp. ¼ sec. cor.

79.76 Intersect the cor. of secs. 8,9,16 and 17.

Thence

Subdivision of T.26 S.,R.8 W.

chains	
	S.89°59'W., on true line bet. secs. 8 and 17.
	Over rolling mountainous land sloping NE., through cedar and pinon timber and undergrowth of sagebrush. Gradually ascend.
17.57	Old road, bears N.20°W. and S.20°E.
39.88	On gentle NE. slope, 75 ft. above 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 S8 / S17 1917 from which
	A cedar, 10 ins.diam.,bears N.78½°E., 302 lks. dist.,marked ¼ S 8 B T
	A cedar, 5 ins.diam.,bears S.6¾°E., 56 lks. dist.,marked ¼ S 17 B T
40.85	Top of ascent, leave dense, enter very scattering timber and dense undergrowth of juniper, bears N. and S. Gradually descend.
50.85	Draw, 50 ft. below top of ascent, course NE. Ascend over E. and SE. slopes 170 ft. to
79.76	The cor. of secs. 7,8,17 and 18.
	Land, rolling mountainous, general NE. exposure and drainage.
	Soil, shallow sandy loam mixed with sharp granite gravel and rock, on hard, dry sand and gravel sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush and juniper. Fair grazing.

	West, on true line bet. secs. 7 and 18.
	Over mountainous land through very scattering cedar and pinon timber and undergrowth of sagebrush and juniper. Ascend over SE. and E. slopes of spur.
12.85	Top of spur, 300 ft. above sec. cor., comes from the S., projects NE. Low saddle in spur, bears S. about 2 chs. dist. Descend abruptly over W. slope.
22.55	Draw, 155 ft. below spur, course N. Gradually ascend.

Subdivision of T.26 S.,R.8 W.

chains	
34.70	Point of spur, 35 ft. above draw, projects N. Gradually descend 10 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{S7}{S18}$ 1917 from which An oak, 3 ins.diam.,bears N.78$\frac{1}{2}$°E., 321 lks. dist.,marked $\frac{1}{4}$ S 7 B T A mahogany, 4 ins.diam.,bears S.82$\frac{3}{4}$°E., 381 lks. dist.,marked $\frac{1}{4}$ S 18 B T
40.15	Base of descent and bottom of main draw, course NE. Ascend towards divide of mountain, over E. slope.
68.80	Thence along N. slope.
73.60	A high ledge point about 200 ft. high, bears S. about 6 chs.
78.55	Draw, heads SW. about 4 chs. distant, drains NE. Ascend abruptly over E. slope.
87.30	Top of ridge divide of Antelope Mountain, 555 ft. above $\frac{1}{4}$ sec. cor., bears N.20°W. and S. Line crosses in low saddle in divide from which a peak bears about 2 chs. N. Descend over rocky W. slope 90 ft. to
92.29	Intersect W. bdy. of the tp., 10.03 chs. south of the cor. of secs. 7,12,13 and 18 which is an iron post, 3 ins. in dia., extending 12 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. At intersection, Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 7 and 18, with brass cap marked T26S R9W | R8W S7 S13 —CC S18 1917 raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, E. of cor.

Subdivision of T.26 S.,R.8 W.

chains	
	I destroy all marks on old cor. pertaining to R.8 W.
	Land, mountainous, general NE. exposure and drainage on E. 87.30 chs., W. exposure and drainage on balance of mile.
	Soil, sandy loam, mixed with sharp, coarse gravel and rocks of quartz and granite formation, on hard, dry, sandy loam and rocky sub-soil.
	Timber, a few scattering cedar and pinon.
	Undergrowth, sagebrush, with patches of oak, juniper, mahogany and service-berry. Fair grazing.

	From the cor. of secs. 7, 8, 17, and 18, N.0°03'W., bet. secs. 7 and 8.
	Over mountainous land through very scattering cedar timber and undergrowth of sagebrush and juniper.
	Ascend over SE. slope of spur.
6.30	Spur, 30 ft. above sec. cor., projects N.80°E. about 15 chs. Descend.
11.10	Draw, heads about 7 chs. west, drains N.80°E. Ascend.
18.00	Spur, 45 ft. above draw, projects E. Descend.
24.00	Base of mountain, 130 ft. below spur, bears E. and W. Thence over rolling land sloping E., juniper undergrowth becomes dense and tall.
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 S7 | S8 1917 from which A cedar limb, 6 ins.diam.,bears S.50¼°W.,522 lks. dist.,marked ¼ S 7 B T No other trees available. Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
50.00	Enter heavier cedar timber, bears E. and W.
80.00	50 ft. below ¼ sec. cor.,
	Set an iron post, 3 ft. long, 2 ins. in dia., 18 ins. in

Subdivision of T.26 S.,R.8 W.

chains

the ground on solid rock and 6 ins. in a mound of stone for cor. of secs. 5, 6, 7 and 8, with brass cap marked

T26S | R8W
S6 | S5
S7 | S8
1917

from which

A cedar, 8 ins.diam.,bears N.67¾°E., 213 lks. dist.,marked T 26 S R 8 W S 5 B T

A cedar, 10 ins.diam.,bears S.34½°E., 141 lks. dist.,marked T 26 S R 8 W S 8 B T

A cedar limb, 10 ins.diam.,bears S.5¼°W., 103 lks.dist.,marked T 26 S R 8 W S 7 B T

A cedar, 10 ins.diam.,bears N.27°07'W., 317 lks. dist.,marked T 26 S R 8 W S 6 B T

Land, S. 24.00 chs., mountainous; N. 56.00 chs.,rolling; general E. exposure and drainage.

Soil, shallow sandy loam, gravelly and rocky of granite and quartz formation; on hard, dry sand and rocky sub-soil.

Timber, very scattering cedar on S. 50 chs., medium dense on N. 30.00 chs.

Undergrowth, sagebrush and juniper. Fair grazing.

N.89°59'E., on a random line bet. secs. 5 and 8.

40.00 Set temp. ¼ sec. cor.

79.74 Intersect N. and S. line 3 lks. S. of the cor. of secs. 4,5,8 and 9.

Thence

S.89°58'W., on true line bet. secs. 5 and 8.

Over rolling land draining N. through dense undergrowth of sagebrush.

9.15 Bottom of shallow draw and base of descent, course NW., wash in draw, 5 lks. wide, 3 ft. deep. Gradually ascend over rolling NE. slope.

9.45 Road, Pine Creek to Antelope Springs, bears N. and S.

39.87 50 ft. above sec. cor.

Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in

Subdivision of T.26 S.,R.8 W.

chains	
	the ground on solid rock and 6 ins. in a mound of stone for ¼ sec. cor., with brass cap marked ¼ S5/S8 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
47.25	Enter cedar timber and juniper undergrowth, bears N. and S.
57.95	Old road, bears N. and S.
79.74	The cor. of secs. 5,6,7 and 8, 50 ft. above ¼ sec. cor. Land, rolling, general NE. exposure; N. drainage. Soil, sandy loam, gravelly and rocky of granite formation on hard, dry sand and gravelly sub-soil. Timber, cedar on western portion of mile. Undergrowth, sagebrush and juniper. Fair grazing.
	West, on true line bet. secs. 6 and 7. Gradually ascend over rolling land sloping E. through scattering cedar timber and undergrowth of sagebrush and juniper.
40.00	240 ft. above sec. cor., Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ½ sec. cor., with brass cap marked ¼ S6/S7 1917 from which A cedar, 4 ins.diam.,bears N.70¾°E., 125 lks. dist.,marked ¾ S 6 B T No other trees available. Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
57.20	Bottom of draw at mouth of same, 60 ft. above ¼ sec. cor., course NE. Enter rough mountainous land, bears NE. and SE.
63.00	Old road to mine, bears N.80°E. and S.80°W. Ascend abruptly over SE. slope of spur.

chains	
74.30	Thence along land sloping nearly S.
92.00	650 ft. above draw.
	Intersect West boundary of the tp., 9.95 chs. south of the cor. of secs. 1,6,7 and 12 which is an iron post, 3 ins. in dia., extending 12 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	At intersection,
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 6 and 7, with brass cap marked

T26S
R9W | R8W
S6
S12 —— CC
S7
1917

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

I destroy all marks on old cor. pertaining to R.8 W.

Land, E. 57.20 chs., rolling, remainder of mile, rough mountainous. General E. exposure and drainage.

Soil, shallow sandy loam, gravelly and rocky of quartz formation, on hard, dry sand and gravelly sub-soil.

Timber, a few scattering cedar.

Undergrowth, sagebrush and juniper. Fair grazing.

From the cor. of secs. 5, 6, 7, and 8,
N.0°03'W., on true line bet. secs. 5 and 6.

Gradually descend over rolling land sloping E., through scattering cedar timber and undergrowth of sagebrush and juniper.

40.00	35 ft. below 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
S6 | S5
1917

from which

chains

A cedar, 4 ins.diam., bears N.41½°E., 78 lks. dist., marked ¼ S 5 B T

A cedar, 12 ins.diam., bears N.76½°W., 659 lks. dist., marked ¼ S 6 B T

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

88.21 50 ft. below ¼ sec. cor.

Intersect 5th. St. Par. S., 7.83 chs., N.89°56'E., of sh ard. cor. of secs. 31 and 32 heretofore described.

At intersection,

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 5 and 6, with brass cap marked

T25SR8W
S32
S6 | S5
CC
T26S
1917

dig pits, 24 x 18 x 12 ins., crosswise on each line, E. and W. 3 ft., and S. of post, 7 ft. distant.

Land, rolling, general E. exposure and N. drainage.

Soil, shallow sandy loam, gravelly and rocky of granite formation, on hard, dry sand sub-soil.

Timber, very scattering cedar.

Undergrowth, dense sagebrush and juniper. Fair grazing.

Retracement of west boundary of T.26 S.,R.8 W. and establishment of ¼ sec. cors.

From the cor. of Tps. 26 and 27 S.,R.9 W. described in the field notes of the survey of T.27 S.,R.8 W., the closing cor. of Tps. 26 and 27 S.,R.8 W. described in the same survey bears south, 10.36 chs.

From cor. of Tps. 26 and 27 S.,R.9 W.

North, bet. secs. 31 and 36

29.72 Position midway bet. the closing cor. of Tps. 26 and 27 S.,R.8 W. and the closing cor. of secs. 30 and 31, T.26 S.,R.7 W.

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

chains	
	the ground for ¼ sec. cor. on W. bdy. of sec. 31, T.26 S.,R.8 W., with brass cap marked
	¼S31
	1917
	from which
	A mahogany, 10 ins.diam.,bears S.39°E., 96 lks. dist.,marked ¼ S 31 B T
	A mahogany, 4 ins.diam.,bears N.58¾°E., 126 lks. dist.,marked ¼ S 31 B T
40.00	The ¼ sec. cor. bet. secs. 31 and 36 which is an iron post, 1 in. in dia., extending 12 ins. above ground, firmly set and marked and witnessed as described by the surveyor general.
	I destroy all marks on this cor. pertaining to sec. 31.
69.80	The closing cor. of secs. 30 and 31, T.26 S.,R.8 W.
80.00	The cor. of secs. 25 and 36, T.26 S.,R.9 W. heretofore described.

	North, bet. secs. 25 and 30
29.85	Position midway bet. the closing cor. of secs. 19 and 30 and the closing cor. of secs. 30 and 31, T.26 S.,R.8 W. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., W.bdy. sec. 30, T.26 S., R.8 W., with brass cap marked
	¼S30
	1917
	from which
	A mahogany, 3 ins.diam.,bears N.8¼°E., 501 lks. dist.,marked ¼ S 30 B T
	A mahogany, 4 ins.diam.,bears S.67½°E., 172 lks. dist.,marked ¼ S 30 B T
40.00	The ¼ sec. cor. bet. secs. 25 and 30 which is an iron post, 1 in. in dia., extending 12 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.

Retracement of west boundary of T.26 S.,R.8 W.
and
Establishment of ¼ sec. cors.

chains	
	I destroy all marks on this cor. pertaining to sec. 30.
69.90	The closing cor. of secs. 19 and 30, T.26 S.,R.8 W.
80.00	The cor. of secs. 24 and 25, T.26 S.,R.9 W. heretofore described.

	North, bet. secs. 19 and 24.
29.78½	Position midway bet.point for the C.C. of secs. 18 and 19 and the closing cor. of secs. 19 and 30,T.26 S.,R.8 W. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. on the W. bdy. of sec. 19, T.26 S.,R.8 W., with brass cap marked ¼S19 1917 from which A mahogany, 6 ins.diam.,bears N.7°E., 47 lks. dist.,marked ¼ S 19 B T A mahogany, 3 ins.diam.,bears S.48½°E., 50 lks. dist.,marked ¼ S 19 B T

40.00	The ¼ sec. cor. bet. secs. 19 and 24 which is an iron post, 1 in. in dia., extending 12 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.I destroy all marks on cor. pertaining to sec. 19.
69.67	Point for C. C. of secs. 18 and 19, T.26 S.,R.8 W.
80.00	The cor. of secs. 13 and 24, T.26 S.,R.9 W. heretofore described.

	North, bet. secs. 13 and 18
29.82	Position midway bet. the closing cor. of secs. 7 and 18 and the closing cor. of secs. 18 and 19,T.26 S.,R.8 W. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. on the W. bdy. of sec. 18, T.26 S.,R.8 W., with brass cap marked ¼S18 1917 from which

Retracement of west boundary of T.26 S.,R.8 W.
and
Establishment of ¼ sec. cors.

chains	
	A mahogany, 8 ins.diam.,bears S.26¼°E., 168 lks. dist.,marked ¼ S 18 B T
	A mahogany, 6 ins.diam.,bears S.69¾°E., 260 lks. dist.,marked ¼ S 18 B T
69.97	The closing cor. of secs. 7 and 18, T.26 S.,R.8 W.
80.00	The cor. of secs. 12 and 13, T. 26 S.,R.8 W., heretofore described.

	North, bet. secs. 7 and 12.
30.01	Position midway bet. the closing cor. of secs. 6 and 7 and the closing cor. of secs. 7 and 18, T.26 S.,R.8 W. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. W. bdy. of sec. 7, T.26 S., R.8 W., with brass cap marked ¼S7 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor.
40.00	The ¼ sec. cor. bet. secs. 7 and 12 which is an iron post, 1 in. in dia., extending 12 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general
	I destroy all marks on this cor. referring to sec. 7
70.05	The closing cor. of secs. 6 and 7, T.26 S.,R.8 W.
80.00	The cor. of secs. 1 and 12, T.26 S.,R.9 W. heretofore described.

	From the cor. of secs. 1 and 12.
	North, retracing bet. secs. 1 and 6
	Over rough mountainous land through scattering cedar timber and undergrowth of sagebrush. Descend abruptly over N. slope.
4.70	Deep draw, 140 ft. below cor., course E. Ascend abruptly over S. slope.
18.05	Ridge, 300 ft. above draw, bears E. and W. Descend abruptly over ledgy N. slope.

Retracement of west boundary of T.26 S.,R.8 W.
and
Establishment of ¼ sec. cors.

chains	
30.05	Northing of 40.00 chs. from the closing cor. of secs. 6 and 7, T.26 S.,R.8 W.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. on the W. bdy. of sec. 6, T.26 S.,R.8 W., with brass cap marked
	¼S6
	1917
	from which
	A cedar, 9 ins.diam.,bears N.67½°E., 76 lks. dist.,marked ¼ S 6 B T
	A cedar, 8 ins.diam.,bears S.26°E.,11 lks. dist.,marked ¼ S 6 B T
32.00	Bottom of deep draw, 500 ft. below ridge, course E.
	Ascend abruptly over rocky S. slope.
40.00	The ¼ sec. cor. bet. secs. 1 and 6 which is an iron post, 1 in. in dia., extending 12 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	I destroy all marks on post referring to sec. 6.
49.40	Top of high spur, 490 ft. above draw, projects S.80°E.
	Descend along steep E. slope of mountain, 510 ft. to
78.51	Intersect the closing cor. of Tp. 26 S.,Rs. 8 and 9 W. heretofore described.

The bearing of this mile is therefore north and distances for the half-miles are 40.00 and 38.51 chs. respectively.

Land, rough mountainous, E. exposure and drainage.

Soil, rocky of quartz formation on rocky sub-soil.

Timber, scattering cedar with some pinon.

Undergrowth, sagebrush and juniper.

Boundaries of T.26 S.,R.8 W.

Latitudes, departures and closing errors.

Lines designated	True bearings	Distances.	Latitudes N.	Latitudes S.	Departures E.	Departures W.
		chs.	chs.	chs.	chs.	chs.
S.bdy.T26SR8W	West	493.12	.....	.....	.....	493.12
W.bdy.T26SR8W	North	488.87	488.87	.....	.....	.....
N.bdy.T26SR8W	S.88°01'E	1.13	.....	.04	1.13	.....
"	S.89°48'E	42.89	.....	.14	42.89	.....
"	N.89°58'E	40.05	.02	.....	40.05	.....
"	N.89°56'E	80.95	.09	.....	80.95	.....
"	N.89°58'E	39.85	.02	.....	39.85	.....
"	N.89°22'E	43.53	.48	.....	43.53	.....
"	N.89°17'E	40.51	.51	.....	40.51	.....
"	N.89°26'E	40.02	.40	.....	40.02	.....
"	S.89°56'E	40.31	.....	.05	40.31	.....
"	S.89°29'E	40.31	.....	.36	40.31	.....
"	S.89°49'E	40.07	.....	.13	40.07	.....
"	S.89°51'E	39.91	.....	.10	39.91	.....
E.bdy.T26SR8W	S.18°08'E	9.66	.....	9.18	3.01	.....
N.bdy.T26SR7W	West	1.37	.....	.....	.....	1.37
E.bdy.T26SR8W	South	479.75	.....	479.75	.....	.....
Convergency			.....	.....	.57	.....
	Totals		490.39	489.75	493.11	494.49
			489.75			493.11
	Error in latitude	-------	64		Error in departure --	1.38

General description.

This township contains two varieties of land, rough mountainous in the western portion and rolling benches and foothills in the east. The Mineral Range or Antelope Mountains pass through secs. 18,19,30 and 31 in a northerly and southerly direction and from its summit the country slopes to the E. and NE. onto low rolling bench lands. On the west slope of these mountains the land is all rough and has a general W. exposure and drainage. The general exposure of the lands on the east side of the mountains is NE. and the drainage is to the north. The soil of the mountainous land is usually rocky, of quartz formation and with this rock is a considerable amount of rich sandy soil. Approaching the foot hills it becomes deeper and is of a brown clay formation. The soil of the benches is a rich sandy loam. Portions of the bench

. lands and especially in the E. and SE. parts of the township are strewn with lava rock and boulders.

The general formation of the lands in this township is quartz in the mountainous parts and volcanic in the lower foot hills and benches.

In the southern and western parts, particularly in the mountains considerable cedar and pinon timber is found. The heaviest timber is in secs. 22 and 23. Oak, mahogany, sagebrush, juniper, service-berry and some maple grows abundantly, while on the benches sage-brush is the only undergrowth. The soil supports an abundant growth of rich grasses which are suitable for grazing. Some of the soil on parts of the benches is apparently very fertile and suitable for dry farming. Fencing has been done in secs. 14,15,22 and 23, and it is evident that the land has been taken for dry farming.

A small reservoir has been built across a large wash in sec. 4 to catch flood waters, the water being used by settlers in T.25 S.,R.8 W. to water stock.

There are no settlers in this township.

There is no water in this township.

We do not find any indications of mineral in the township.

4—680

BOOK A-432

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.	
Ruban W. Riley	Dec. 13, 1916	Dec. 19, 1916	H. Chainman
Almon Penney	" " "	" " "	R. Chainman
Ed Staley	" " "	" " "	Axman
The above assistants were employed by me under the above dates in the survey of portion of T. 26 S., R. 8 W.			

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

Truman Nelson

U. S. Surveyor.
Transitman

6—2764

CERTIFICATE TRANSITMAN.

FINAL ~~OATH~~ OF UNITED STATES ~~SURVEYOR.~~

I, Andrew Nelson, Transitman, certify on honor ~~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 20th day of Jan., 1916, I have well, faithfully, and truly and date diagram on page 1 on stone shown on diagram 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 Subdivision of T. 26 S., R. 8 W. of the Salt Lake Base and Meridian, in the State of Utah, which are represented in and date diagram on page 1 on dates shown on the foregoing field notes as having been executed by me, and under my direction; and I do further certify on honor ~~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.

Feb. 28, 1917. Andrew Nelson
U. S. ~~Surveyor~~ Transitman.

~~Subscribed by said _____, and sworn to before me this _____ day of _____, 191-~~

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

_____, 191

The foregoing field notes of the survey of _____

executed by _____

under his special instructions dated _____, 191 , having 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

4—680

BOOK A-432

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.
	~~Began.~~	~~Ended.~~	~~CAPACITY.~~
	Capacity		
Rellis Dorius	1st. chainman		
Almaon Penney	2nd. chainman		
Hollis Hunter	Flagman		
A.T.Rappleye	axman		
Vell Peterson	cornerman		
The above assistants were employed by me in the execution of the survey of T.26 S.,R.8 W.			

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

Howard von Meer.
U. S. Surveyor.

6—276A

FINAL OATH OF UNITED STATES SURVEYOR.

I, Howard W. Miller, U. S. Surveyor, do ~~solemnly swear~~ certify on honor that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the 20th. day of January, 1916, 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 resurvey of the 5th. Standard Parallel South, through range 8 west, survey of the subdivision and retracement and establishment of ¼ sec. cors. on the W. bdy. of T.26 S.,R.8 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 date diagram on page 1 on dates as shown on said diag and I do further ~~solemnly swear~~ certify on honor 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.

Howard W. Miller
U. S. Surveyor.

February 4, 1918

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 14, 1918

The foregoing field notes of the ~~survey of~~ resurvey of the Fifth Standard Parallel South, through Range No. 8 West; survey of the subdivisional lines; and the retracement and establishment of ¼ section corners on the west boundary of Township No. 26 South, Range No. 8 West of the Salt Lake Base and Meridian, Utah,

executed by Andrew Nelson and Howard W. Miller under ~~XX~~ special instructions dated January 20, 1916, ~~191~~, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

retracements, resurveys, and

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—276:

U. S. Surveyor General.

TRANSCRIBED COPY OF ORIGINAL FIELD NOTES

U. S. Surveyor General's Office
APR 7 1917
SALT LAKE CITY, UTAH.

4—679

BOOK A-432

K.J.B

mses & dist. K.J.B

FIELD NOTES

~~OF THE SURVEY OF THE~~

OF THE RESURVEY OF THE

WILLOW SPRINGS GUIDE MERIDIAN THROUGH T. 13 S., BET. Rs. 17 AND 18 W.

RESURVEY

OF THE

SOUTH BOUNDARY OF T. 12 S., R. 17 W.

AND THE SURVEY OF THE

SOUTH AND EAST BOUNDARIES

AND

SUBDIVISION

OF

T. 13 S., R. 17 W.

Of the SALT LAKE BASE AND *Meridian,*

the State of UTAH

EXECUTED BY

John W. Dougall

the capacity of U. S. Surveyor, under instructions dated February 17, 1916,

ed by the United States Surveyor General to govern surveys included in

up No. 55, *which were approved by the Commissioner of the General Land*

e, March 4th, 1916, *pursuant to authority contained in the Act of*

~~*ess dated*~~ ~~, 191~~

'gnment instructions dated July 24, 1916.

Survey commenced August 1, 1916, *191*

Survey completed August 16, 1916, *191*

6—151

Examinations Classified

A Plat F.B. Notes K.F.B.

B Computations F.B.

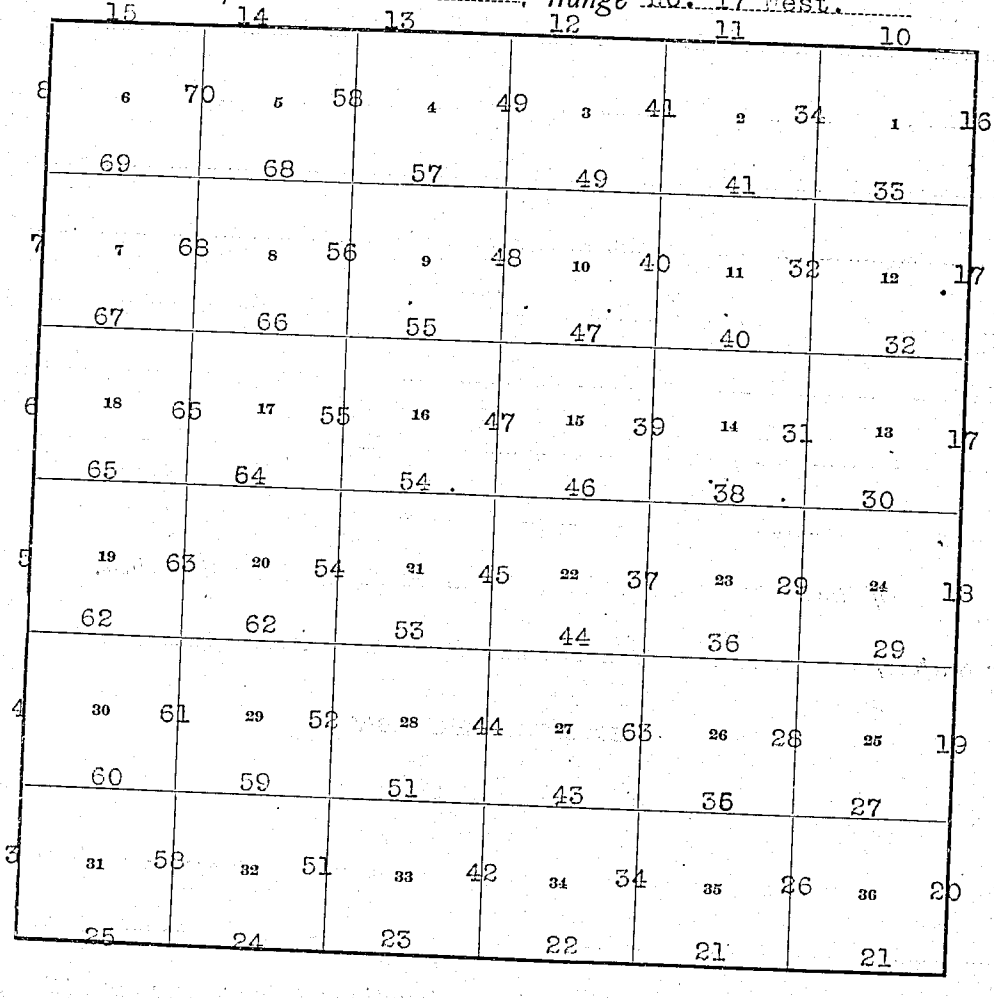
Comparing

C Plat V.I.F. Notes K.F.B.

BOOK A-432

INDEX DIAGRAM.

Township No. 13 South, *Range* No. 17 West.



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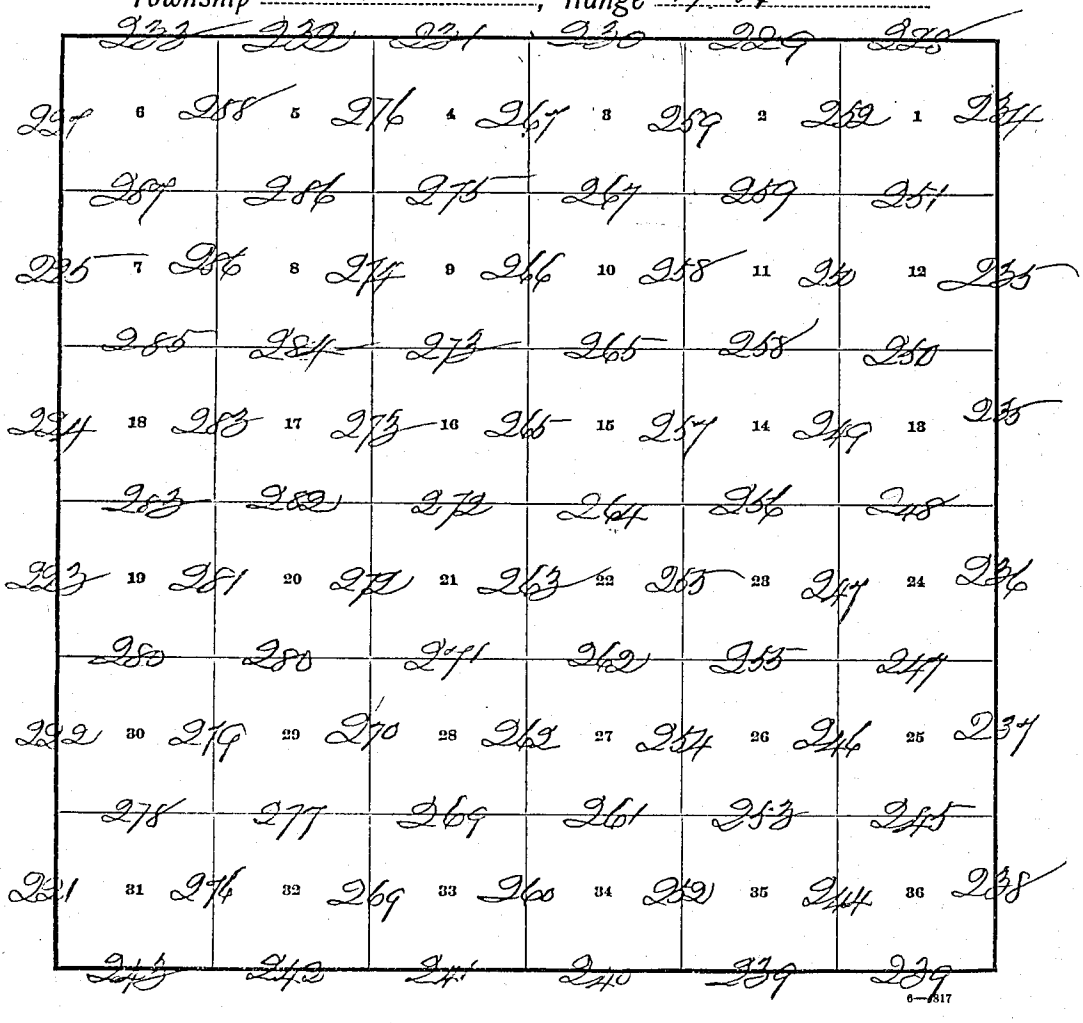
BOOK A-432

4—679 b

INDEX DIAGRAM.

Township 13 S, Range 17 W



6—1817

DATE DIAGRAM.

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

8-2-16 8-2-16 8-2-16 8-2-16 8-2-16 8-2-16

8-5-16 8-5-16 8-5-16 8-5-16 8-5-16 8-5-16

Survey commenced August 1, 1916, and executed with a Young and 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, reading to simgle minutes of arc; which is also the least count of the verniers of the latitude and declination arcs.

The instrument was approved for these surveys by the assistant supervisor of surveys.

A five-chain steel tape and a clinometer were used in measuring all distances, and the reduced horizontal distances only appear in these notes.

Resurvey of "The Willow Springs Guide Meridian"
through T.13 S., bet. Rs. 17 and 18 W.

Chains.

The tape was frequently tested by comparing it with a standard one-chain steel tape kept for this purpose only. I examine the adjustments of the transit, find them correct; 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 Tp. 13 S., Rs. 17 and 18 W.; latitude 39° 38'N., longitude 113°48'W.; I set off 39°38' on the lat. arc;, 18°01'E. on the decl. arc; and, at 9h 00m a.m., apparent time, determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of the cor.

At 12h 00m, noon apparent time, I set off 17°59' N. on the decl. arc; and observe the sun on the meridian, the resulting lat. is 39°38'.

At 3h 00m., p. m., apparent time, I set off 39°38' on the lat. arc; 17°57' N. on the decl. arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station.

At 10h35 m p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

August 1, 1916.

August 2, 1916, At 8h 30m, a.m., apparent time, I lay off the azimuth of Polaris 1°29'30" to the west, and mark the meridian thus determined, by cutting a small mark in the stone set August 1, on which the meridian falls 0.3 ins. east and west of the marks determined by the solar.

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

Resurvey of "The Willow Springs Guide Meridian" through T. 13 S., bet. Rs. 17 and 18 W.

Chains.

Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

Owing to a defective needle no observations for mag. decl. were made.

Note: The instrument was kept in good adjustment, and frequently tested with a meridian established by Polaris observations, during the execution of this survey.

August 2, 1916.

I begin at the cor. of T. 13 S., Rs. 17 and 18 W., which is a trachyte 8 x 7 x 6 ins. above ground, firmly set, marked 6 notches on N. E. and W. edges , small stone mound W. of cor.

I remonument this cor. 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 T. 13 S., Rs. 17 and 18 W., with brass cap marked

T 13 S
R 18 W | R 17 W
S 36 | S 31
S 6

T 14 S R 17 W
1916

Thence

North retracing bet. secs. 31 and 36.

41.21 Fall 46 lks. E., of ¼ sec. cor., which is a lava stone 10 x 12 x 8 ins. above ground, firmly set, plainly marked ¼ on W., face , small stone mound E. of cor.

I remonument this cor. as follows;

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground alongside the old cor. for ¼ cor. of sec. 36 only with brass cap marked

¼
S 36
1916

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

Chains.

The true course of this line therefore is N.0°38'W., and distance is 41.21 chs.

From the ¼ sec. cor. bet. secs. 31 and 36.
North retracing bet. secs. 31 and 36.

42.11 Fall 1.18 chs. E. of cor. of secs. 25, 30, 31 and 36, which is a lava stone 8 x 10 x 10 ins. above ground, firmly set, plainly marked 5 notches on N. and 1 notch on south edges, small stone mound E., of cor.

I remonument this cor. 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 and 36 only, with brass cap marked

T 13 S
S 25 | S 36
R 18 W

1916

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

The true course of this line therefore is N.1°36'W., and distance is 42.13 chs.

From the old cor. of secs. 25, 30, 31 and 36.
North retracing bet. secs. 25 and 30.

41.95 Fall 1.76 chs. E. of ¼ sec. cor., which is a lava stone 6 x 6 x 10 ins. above ground, firmly set plainly marked ¼ on N. face, not witnessed.

I remonument this cor. as follows;

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground alongside the old cor. for ¼ cor. of sec.25 only with brass cap marked

¼
S 25

1916

Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft., dist.,

Resurvey of "The Willow Springs Guide Meridian"
through T. 13 S., bet. Rs. 17 and 18 W., M. D. M.

Chains.

The true course of this line therefore is N.2°24'W., and distance is 41.99 chs.

From the old ¼ cor. bet. secs. 25 and 30.

North retracing bet. secs. 25 and 30.

41.55 Fall 56 lks. E. of cor. of secs. 19, 24, 25 and 30, which is a lava stone 8 x 8 x 8 ins. lying in a small stone mound, plainly marked 4 notches on one and 2 notches on opposite edges, not witnessed.

I remonument this cor. as follows;

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground with the old stone at same point for cor. of secs. 24 and 25 only, with brass cap marked

T 13 S
S 24 | S 25
R 18 W

1916

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

The true course of this line therefore is N.0°46'W., and distance is 41.55 chs.

From the old cor. of secs. 19, 24, 25 and 30.

North retracing bet. secs.19 and 24.

41.66 Fall 1.27 chs. E. of ¼ sec. cor., which is a lava stone 5,x 5 x 8 ins. above ground, firmly set, plainly marked ¼ on W. face, not witnessed.

I remonument this cor. as follows;

Set an iron post, 3 ft. long, 1 in. in dia,, 26 ins. in the ground alongside the old cor. for ¼ cor. of sec.24 only with brass cap marked

¼
S 24

1916

Dig pits 18 x 18 x 12 ins., N. and S. of post 3 ft. dist.

The true course of this line therefore is N.1°45'W., and distance is 41.68 chs.

Chains.	
	From the old ¼ sec. cor. bet. secs. 19 and 24.
	North retracing bet. secs. 19 and 24.
41.49	Fall 1.21 chs. E. of cor. of secs. 13,18, 19 and 24, which is a lava stone 8 x 12 x 10 ins. above ground, firmly set, plainly marked 3 notches on N. and S. edges. not witnessed.
	I remonument this cor. 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. 13 and 24 only, with brass cap marked
	T 13 S S 13 | S 24 R 18 W 1916
	Raise a mound of stone 2 ft. base 1½ ft. high W. of cor.
	The true course of this line therefore is N.1°40'W., and distance is 41.51 chs.

	From the old cor. of secs.13, 18, 19 and 24.
	North retracing bet. secs. 13 and 18.
40.00	After careful search find no trace of ¼ sec. cor.
82.38	Fall 3.91 chs. E. of cor. of secs. 7, 12, 13 and 18, which is a lava stone 7 x 7 x 7 ins.above ground, loosely set, very dimly marked 4 notches on S. and 2 notches on N. edges. not witnessed.
	I remonument this cor. 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., 12 and 13 only, with brass cap marked
	T 13 S S 12 | S 13 R 18 W 1916
	dig pits 18 x 18 x 12 ins. in each sec., 5½ ft. dist.,

Chains.	
	The true course of this line therefore is N.2°43'W., and distance 82.47 chs.
	Thence
	From the old cor. of secs. 13, 18, 19 and 24.,
	N.2°43'W., resurvey, on E. bdy. of sec.13,
	Descend over gently rolling land, through small sahdscale.
	along E. side of a wire fence.
9.70	Wood road bears N.70°W., and S.70°E.
29.90	Wash, 10 lks. wide 6 ft. deep, drains N.40°E.
41.25	Set an iron post, 3 ft.long, 1 in. in dia., 26 ins. in the ground for ¼ cor. of sec. 13 only, with brass cap marked ¼ S 13 1916
	Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft.dist.,
43.40	Sand bank 8 ft. high bears E. and W.,
59.30	Wash, 30 lks. wide 10 ft. deep, drains N.70°E.,
59.65	Wire fence from E., joins N. and S. fence.
60.00	Enter SW. cor. of cultivated land extends E. and W.
82.47	The cor. of secs. 12 and 13.
	Land rolling valley.
	Good clay loam, 3 to 20 ins. deep, medium texture, dry on clay subsoil,
	Undergrowth shadscale. No timber.
	Two this cor. W. A. Shellenberger's house bears N.9°E., 10.14 chs. dist.,
	Stable bears N.7°30'E., 12.45 chs. dist.,

	From the old cor. of secs. 7, 12, 13 and 18.
	North retracing bet. secs. 7 and 12.
40.37	Fall 81 lks. E. of ¼ sec. cor. which is a quartzite stone 10 x 5 x 4 ins. above ground, firmly set, plainly marked ¼ on W. face traces of pits.
	I remonument this cor. as follows;
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in

Chains.

the ground alongside the old cor. for ¼ cor. of secs 12 only, with brass cap marked

¼
S 12
1916

Dig pits 18 x 18 x 12 ins. N. and S. of post, 3 ft. dist. The true course of this line therefore is N.1°09'W., and distance is 40.38 chs.

From the old ¼ sec. cor. bet. secs. 7 and 12.
North retracing bet. secs. 7 and 12.

41.05 Fall 87 lks. E., of cor. of secs. 1, 6, 7 and 12, which is an aspen post, 4 x 4 ins. 12 ins. above ground, loosely set, badly decayed, dimly marked 5 notches on S. and 1 notch on N. edges, other marks illegible. slight traces of pits..

I remonument this cor. 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. 1 and 12 only, with brass cap marked

T 13 S
S 1 | S 12
R 18 W
1916

Raise a mound of stone 2 ft. base 1½ ft. high W. of cor. The true course of this line therefore is N.1°13'W., and distance is 41.06 chs.

From the old cor. of secs., 1, 6, 7, and 12.
North retracing bet. secs. 1 and 6.

41.16 Fall 20 lks. W. of ¼ sec. cor., which is a quartzite stone 8 x 10 x 8 ins. above ground, firmly set, marked ¼ on W. face, small stone mound W.,

I remonument this cor. as follows;

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

Resurvey of "The Willow Springs Guide Meridian" through T. 13 S., bet. Rs. 17 and 18 W.

Chains.

the ground alongside the old cor., for ¼ cor. of sec. 1 only, with brass cap marked

¼
S 1
1916

Raise a mound of stone 2 ft. base 1½ ft. high W. of cor. The true course of this line therefore is N.0°17'E., and distance is 41.16 chs.

From the old ¼ sec. cor. bet. secs. 1 and 6.

North retracing bet. secs. 1 and 6.

41.43 all 17 lks. W. of cor. of Tps. 12 and 13 S., Rs. 17 and 18 W., which is a quartzite stone 12 x 10 x 8 ins. above ground, firmly set, plainly marked , 6 notches on N. S. E. and W. sides, plain traces of pits and the remains of an earth mound.

I remonument this cor. 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 Tps. 12 and 13 S., Rs. 17 and 18 W., with brass cap marked

T 12 S
R 18 W | R 17 W
S 36 | S 31
S 1 | S 6
T 13 S
1916

Raise a mound of stone 2 ft. base 1½ ft. high S. of cor. The true course of this line therefore is N.0°14'E., and distance is 41.43 chs.

Chains.

From the cor. of Tps. 12 and 13 S., Rs. 16 and 17 W., which is a lava stone 10 x 12 x10 ins. above ground, firmly set, plainly marked 6 notches on N.S.E. and W. edges. not witnessed.

I remonument this cor. as follows;

Set an iron post, 3 ft. long, 3 ins. in dia. 24 ins. in the ground alongside the old cor. for the cor. of Tps. 12 and 13 S., Rs. 16 and 17 W., with brass cap marked

T 12 S

R 17 W | R 16 W

S 36 | S 31

S 1 | S 6

T 13 S

1916

Raise a mound of stone 3 ft. base 2 ft. high S. of cor.

West retracing bet. secs. 1 and 36.

40.12 Fall 5 lks. S. of ¼ sec. cor., which is a lava stone 4 x 8 x 6 ins., above ground, firmly set, plainly marked ¼ on N. face, not witnessed.

I remonument this cor. as follows;

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

S 36

¼ ———

S 1

1916

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

The true course of this line therefore is N.89°56'W., and distance is 40.12 chs.

From the ¼ sec. cor. bet. secs. 1 and 36.

West retracing bet. secs. 1 and 36.

40.10 Fall 5 lks. S. of cor. of secs. 1, 2, 35 and 36. which is a lava stone 4 x 4 x 6 ins. above ground, firmly set, plainly marked 5 notches on W. 1 notch on E. edges.

Chains.

not witnessed,

I remonument this cor. 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. 1, 2, 35 and 36, with brass cap marked

T 12 S R 17 W

S 35 | S 36

S 2 | S 1

T 13 S

1916

Dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.,

The true course of this line therefore is N.89°56'W.,

and distance is 40.10 chs.

From the cor. of secs. 1, 2, 35 and 36.,

West retracing bet. secs. 2 and 35.

40.13 Fall 8 lks. S. of ¼ Sec. cor., which is a lava stone 4 x 5 x 9 ins. above ground, firmly set, plainly marked ¼ on N. face, not witnessed.

I remonument this cor. as follows;

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

¼ S 35 / S 2

1916.

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

The true course of this line therefore is N. 89°53'W.,

and distance is 40.13 chs.

From the ¼ sec. cor. bet. secs. 2 and 35.

West retracing bet. secs. 2 and 35.,

40.12 Fall 11 lks. S. of cor. of secs. 2, 3, 34 and 35, which is a lava stone 10 x 5 x 9 ins. above ground, firmly set, plainly marked 4 notches on W. and 2 notches on E.

Resurvey of the South Boundary of T. 12 S., R.17 W.

Chains.	
	edges, not witnessed.
	I remonument this cor. 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. 2, 3, 34 and 35, with brass cap marked
	T 12 S R 17 W S 34 | S 35 S 3 | S 2 T 13 S 1916
	Dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.,
	The true course of this line therefore is N.89°51'W., and distance is 40.12 chs.
	From the cor. of secs. 2, 3, 34 and 35.
	West retracing bet. secs. 3 and 34.
40.12	Fall 7 lks. S. of ¼ sec. cor. which is a quartzite stone 7 x 7 x 6 ins. above ground, firmly set, plainly marked ¼ on N. face. not witnessed.
	I remonument this cor. as follows;
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground alongside the old cor. for ¼ cor. of sec.34 only, with brass cap marked
	¼ S 34 1916
	Dig pits 18 x 18 x 12 ins. E and W. of post,3 ft. dist.
	The true course of this line therefore is N.89°54'W., and distance is 40.12 chs.
	From the ½ sec. cor. bet. secs. 3 and 34.
	West retracing bet. secs. 3 and 34.
40.08	Fall 9 lks. S. of cor. of secs., 3, 4, 33 and 34, which is a quartzite 4 x 6 x 8 ins. above ground, firmly set, plainly marked 3 notches on E and W. edges. not witnessed
	I remonument this cor. as follows;

Resurvey of the South Boundary of T. 12 S., R. 17 W.

Chains.

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground alongside the old cor. for cor. of secs. 33 and 34 only, with brass cap marked

T 12 S R 17 W

S 33 | S 34

1916

Dig pits 18 x 18 x 12 ins. in each sec., 5½ ft. dist.
The true course of this line therefore is N.89°52'W., and distance is 40.08 chs.

From the old cor. of secs. 3, 4, 33 and 34.
West retracing bet. secs. 4 and 33.

40.14 Fall 5 lks, S. of ¼ sec. cor., which is a lava stone 10 x 12 x 16 ins. above ground, firmly set, plainly marked ¼ on N. face, small stone mound N.

I remonument this cor.as follows;
Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground alongside the old cor. for ¼ cor. of sec. 33 only, with brass cap marked

¼ S 33

1916

Raise a mound of stone 2 ft., base 1½ ft. high N. of cor.
The true course of this line therefore is N.89°56'W., and distance is 40.14 chs.

From the ¼ sec. cor. bet. secs. 4 and 33.
West retracing bet. secs. 4 and 33.

40.16 Fall 9 lks. S. of cor. of secs. 4, 5, 32 and 33, which is a quartzite stone 8 x 6 x 6 ins above ground, firmly set, plainly marked 4 notches on E. and 2 notches on W. edges, not witnessed.

I remonument this cor. as follows;
Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground alongside the old cor. for the cor. of secs.

Chains.

32 and 33 only, with brass cap marked

T 12 S R 17 W

S 32 | S 33

1916

Dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.,
The true course of this line therefore is N.89°52'W.,
and distance is 40.16 chs.

From the old cor. of secs., 4, 5, 32 and 33.
West retracing bet. secs. 5 and 32.

40.22 Fall 7 lks. S. of ¼ sec. cor. which is a lava stone 4 x 4 x 8 ins. above ground, loosely set, plainly marked ¼ on N. face, not witnessed.

I remonument this cor. as follows;
Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground alongside the old cor. for ¼ cor. of sec. 32 only, with brass cap marked

¼ S 32

1916

Dig pits 18 x 18 x 12 ins. E. and W. of post, 3 ft. dist.,
The true course of this line therefore is N.89°54'W.,
and distance is 40.22 chs.

From the old ¼ cor. bet. secs. 5 and 32.
West retracing bet. secs. 5 and 32.

40.17 Fall 7 lks. S. of cor. of secs., 5, 6, 31 and 32. which is a quartzite stone 8 x 4 x 6 ins. above ground, firmly set, plainly marked 5 notches on E. and 1 notch on W., edges, not witnessed.

I remonument this cor. 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., 31 and 32, with brass cap marked

T 12 S | R 17 W
S 31 | S 32

1916

Chains.

Dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.,
The true course of this line therefore is N.89°54'W.,
and distance is 40.17 chs.

From the old cor. of secs. 5, 6, 31 and 32.
West retracing bet. secs. 6 and 31.

40.11 Fall 7 lks. S. of ¼ sec. cor., which is a lava stone 6 x 4 x 5 ins. above ground, loosely set, plainly marked ¼ on N. face, not witnessed.

I remonument this cor. as follows;
Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground alongside the old cor. for ¼ cor. of sec. 31 only, with brass cap marked

¼ S 31
1916

Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.,
The true course of this line therefore is N.89°54'W.,
and distance is 40.11 chs.

From the old ¼ cor. bet. secs. 6 and 31.
West retracing bet. secs. 6 and 31.

53.25 Intersect " The Willow Springs Guide Meridian " 9 lks. S.0°14'W. of the cor. of Tps. 12 and 13 S., Rs. 17 and 18 W., heretofore described.

The true course of this line therefore is N.89°54'W.,
and distance is 53.25 chs.

South Boundary of T. 13 S., R. 17 W.

From the cor. of T. 13 S., Rs. 17 and 18 W., heretofore described.

East on a random line, along the south bdy. of T. 13 S., R. 17 W., setting temp. ¼ sec. and sec. cors. at intervals of 40.00 chs.; at 483.68 chs. set temp. cor. of

East Boundary of T. 13 S. R. 17 W.

Chains.

Tps. 13 and 14 S., Rs. 16 and 17 W.,

Note: From retracements this is the estimated distance for Tp. cor.

From the temp., cor. of Tps. 13 and 14 S., Rs. 16 and 17 W.

North on a random line along E. bdy. of T.13 S., R. 17 W. setting temp. ¼ sec. and sec. cors. at intervals of 40.00 chs.; at 495.46 chs., fall 66 lks. E. of cor. of Tps. 12 and 13 S., Rs. 16 and 17 W., heretofore described I abandon random line.

Thence

South on a true line bet. secs. 1 and 6.

Over gently rolling valley land sandy and stony soil, through small shadscale undergrowth.

17.50 Swale 1.00 ch. wide 6 ft. deep, drains W.

33.60 Sand hill 12 ft. high bears N.80°W., and S.80°E.

55.46 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 1 | S 6

1916

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

90.20 Wash, 20 lks. wide 2 ft. deep, drains W.

92.46 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 13 S

R 17 W | R 16 W

S 1 | S 6

S 12 | S 7

1916

Raise a mound of stone 3 ft. base 2 ft, high W. of cor.

Land gently rolling.

Light poor sandy stony soil, 5 to 20 ins. deep, medium texture, dry. on sand and clay subsoil.

No timber.

235

East Boundary of T. 13 S., R. 17 W.

Chains.	
	Undergrowth shadscale .
	South on a true line bet. secs. 7 and 18.
	Over gently rolling valley land through small shadscale
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 12 | S 7 1916
	Raise a mound of stone 2 ft. base 1½ ft. high W. of cor.
80.00	Set an iron post, 3 ft. long 3 ins. in dia., 24 ins. in ground for cor. of secs., 7, 12, 13 and 18, with brass cap marked T 13 S. R 17 W. | R 16 W. S 12 | S 7 S 13 | S 18 1916
	Raise a mound of stone 3 ft. base 2 ft. high W. of cor.
	Land gently rolling.
	Light sandy loam with some gravel and stones, medium texture, dry, on gravel and stone subsoil.
	No timber. Undergrowth shadscale.
	South on a true line bet. secs. 13 and 18.
	Over gently rolling valley land, stony, through small shadscale undergrowth.
10.50	Wash, 30 lks. wide 4 ft. deep. drains NW.
16.90	Wash, 30 lks. wide 5 ft. deep, drains NW.
27.50	Wash, 25 lks. wide 4 ft. deep, drains N.30°W.
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 13 | S 18 1916
	Raise a mound of stone 3 ft. base 2 ft. high W. of cor.

Chains.	
44.25	Wash, 50 lks. wide 5 ft. deep, drains. NW.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of secs. 13, 18, 19 and 24, with brass cap marked T 13 S R 17 W R 16 W S 13 | S 18 S 24 | S 19 1916 Raise a mound of stone 3 ft. base 2 ft. high W. of cor. Land gently rolling valley. Poor sandy stony soil, 4 to 20 ins. deep, coarse texture, dry, on gravel and stone base. No timber. Undergrowth shadscale.
	South on a true line bet. secs. 19 and 24. Over gently rolling stony valley land through shadscale undergrowth.
0.90	Wash, 25 lks. wide 3 ft. deep, drains NW.
7.30	Begin ascent of lava swell bears E. and W.
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 24 | S 19 1916 Raise a mound of stone 2 ft. base 1½ ft. high W. of cor. This ¼ cor. is 185 ft., above sec. cor.
56.80	Enter huge black lava boulders bears E. and W.
77.75	Top of E. slope of lava swell, 230 ft., above ¼ sec. cor., bears N.80°W., and S.80°E.,
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 10 ins. in the ground to solid rock and 14 ins. in a stone mound for cor. of secs. 19, 24, 25 and 30, with brass cap marked

East Boundary of T. 13 S., R. 17 W.

Chains.	
	T 13 S R 17 W R 16 W S 24 | S 19 S 25 | S 30 1916
	Raise a mound of stone 3 ft. base 2 ft. high W. of cor.
	N. 7.30 chs. gently rolling valley, soil, light poor sandy stony loam, 5 to 20 ins. deep, coarse texture, dry, on gravel and stone base. S. 72.70 chs. lava swell, soil is composed of fine volcanic ash stones and sand. with huge lava boulders on S. end.
	No timber. Undergrowth shadscale.
	South on a true line bet. secs. 25 and 30.
	Across lava swell huge lava boulders through shadscale.
37.80	Leave lava swell descend over loose lava boulders bears N.80°E., and S.80°W.
39.80	Foot of descent leave loose lava boulders enter gently rolling land, sandy, bears N.80°E., and S.80°W.,
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 25 | S 30 1916
	Raise a mound of stone 3 ft. base 2 ft. high W. of cor.
	This cor. is 40 ft. below lava swell.
43.75	Wash, 40 lks. wide 3 ft. deep, drains W. to Dry Lake.
57.75	Wash, 20 lks. wide 3 ft. deep, drains N.80°W.,
77.00	Wood road bears N.80°E. and S.80°W.,
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of secs., 25, 30, 31 and 36, with brass cap marked T 13 S R 17 W R 16 W S 25 | S 30 S 36 | S 31 1916

East Boundary of T. 13 S., R. 17 W.

Chains.	
	Raise a mound of stone 2 ft. base 1½ ft. high W. of cor.
	N. 39.80 chs. lava swell poor soil with huge lava boulder
	S. 40.20 chs. good sandy loam 5 to 20 ins. deep, fine texture, dry, on gravel and clay base and subsoil.
	No timber. Undergrowth shadscale.

	South on a true line bet. secs. 31 and 36.
	Ascend gently over rolling land, through shadscale.
11.85	Gravelly ridge, 50 ft. above sec. cor. bears N.45°W. and S.45°E.,
15.50	Begin to descend over gravelly slope of ridge bears NW. and SE.
16.50	Foot of descent 45 ft. below ridge, bears NW. and SE.
18.80	Dim wood road bears NW. and SE.
20.50	Wash, 1.30 chs. wide 4 ft. deep, drains NW.
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 36 | S 31 1916
	Dig pits 18 x 18 x 12 ins. N. and S. of post, 3 ft. dist.
50.25	Wash, 30 lks. wide 2 ft. deep, drains N.20°W.,
80.00	Intersect S. bdy. of the Tp., 68 lks. W. of temp. cor. of Tps. 13 and 14 S., Rs. 16 and 17 W., At intersection.
	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of Tps. 13 and 14 S., Rs. 16 and 17 W., with brass cap marked
	T 13 S R 17 W R 16 W S 36 | S 31 S 1 | S 6 T 14 S 1916
	Raise a mound of stone 2 ft. base 2 ft. high S. of cor.
	Land rolling.
	Medium soil, dry., with some gravel 5 to 10 ins. deep, on clay, stone, and gravel base.
	No timber. Undergrowth shadscale.

South Boundary of T. 13 S., R 17 W.

Chains.	
	From the cor. of Tps. 13 and 14 S. Rs. 16 and 17 W.,
	West on a true line bet. secs. 1 and 36.
	Ascend over gently rolling land, stony, through small shadscale.
19.00	Wash, 15 lks. wide 3 ft. deep, drains N.
26.00	Wash, 25 lks. wide 3 ft. deep, drains N.20°W.,
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 36 ins. in the ground for ¼ sec. cor., with brass cap marked

S 36

¼

S 1

1916

	Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.
48.00	Wash, 20 lks. wide 3 ft. deep, drains N.20°E.
55.00	Wash, 25 lks. wide 4 ft. deep, drains N.20°E.
59.00	Foot of bench bears NW., and SE.
61.50	Top of bench, 60 ft. high bears NW., and SE.
64.00	Swale, 1.00 chs. wide 12 ft. deep, drains N.
71.00	Swale, 1.25 chs. wide 14 ft. deep, drains N.
75.00	Swale, 1.10 chs. wide 12 ft. deep, drains N.
78.00	Swale, 1.00 chs. wide 14 ft. deep, drains N.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 10 ins. in the ground to solid rock and 14 ins. in a stone mound for cor. of secs., 1, 2, 35 and 36, with brass cap marked

T 13 S R 17 W

S 35 | S 36

S 2 | S 1

T 14 S

1916

	Raise a mound of stone 3 ft. base 2 ft. high W. of cor.
	Land rolling .
	Poor gravelly soil, 8 to 20 ins. deep, coarse texture, dry., on gravel and limestone base.
	No timber. Undergrowth shadscale.

	West on a true line bet. secs., 2 and 35.
	Over rolling bench land draining N., stony, through shadscale.

South Boundary of T. 13 S., R. 17 W.

Chains.	
6.50	Swale, 1.00 chs. wide 20 ft. deep, drains N.
11.25	Swale, 1.50 chs. wide 15 ft. deep, drains N.
24.25	Swale, 1.25 chs. wide 12 ft. deep, drains N.20°W.
35.25	Swale, 1.00 chs. wide, 20 ft. deep, drains N.20°W.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 17 ins. in the ground to solid rock and 9 ins. in a stone mound for ¼ sec. cor., with brass cap marked S 35 ¼ S 2 1916
	Raise a mound of stone 2 ft. base 1½ ft. high N. of cor.
41.75	Swale, 60 lks. wide 8 ft. deep, drains N.30°W.,
53.50	Swale, 90 lks. wide 13 ft. deep, drains N.30°W.
58.50	Low spur, 25 ft. high projects N.25°W.,
69.00	Dim wood road bears N.40°W., and S.40°E.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of secs., 2, 3, 34 and 35, with brass cap marked T 13 S R 17 W S 34 | S 35 S 3 | S 2 T 14 S 1916
	Raise a mound of stone 3 ft. base 2 ft. high W. of cor.
	Land gently rolling sloping north.
	Poor gravelly and stony soil. 3 to 15 ins. deep, coarse texture, dry, on limestone base.
	No timber. Undergrowth shadscale.

	Test on a true line bet. secs. 3 and 34.
	Descend over gently rolling bench land, limestone formation, through shadscale.
1.75	Swale, 2.00 chs. wide 20 ft., deep, drains N.
18.75	Ridge, 35 ft. above swale, bears N. and S.
33.25	Swale, 40 ft. below ridge, drains N.60°W.

South Boundary of T. 13 S., R. 17 W.,

Chains	
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 S 34 ¼ S 3 1916
	Raise a mound of stone 3 ft. base 2 ft. high W. of cor.
43.75	Dim wood road bears N.60°E. and S.60°W.,
45.35	Wash, 20 lks. wide 5 ft. deep, drains N.45°W.
71.75	Enter wash 3 ft. deep, drains N.40°W.,
75.00	Leave same bank 2 ft high bears N.60°W., and S .60°E.
79.00	Wash, 1 ch. wide 3 ft. deep, drains N.10°W.,
80.00	Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground for cor. of secs. 3, 4, 33 and 34, with brass cap marked T 13 S R 17 W S 33 | S 34 S 4 | S 3 T 14 S 1916
	Raise a mound of stone 3 ft. base 2 ft. high W. of cor.,
	Land rolling bench sloping N.
	Poor stony gravelly soil, 5 to 10 ins. deep, coarse texture, dry, on gravel and limestone base.
	No timber. Undergrowth shadscale.

	Test on a true line bet. secs. 4 and 33.
	Ascend over gently rolling bench land through shadscale.
00.50	Wood road bears N.60°W., and S.60°E.
31.00	Point of spur, 70 ft., above sec. cor. projects N.
32.25	Wash, 60 lks. wide, 30 ft. deep, drains N.
34.50	Low spur, 25 ft., above wash, projects N.
37.75	Wash, 50 lks. wide, 12 ft. deep, drains N.10°E.
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

South Boundary of T. 13 S., R. 17 W.

Chains.	
	S 33 / ½ / S 4
	1916
	Raise a mound of stone 3 ft. base 2 ft. high N. of cor.
51,35	Swale, 65 lks. wide 10 ft. deep, drains N.20°W.
59.75	Swale, 80 lks. wide, 12 ft. deep, drains N.25°W.,
65.50	Swale, 75 lks. wide, 15 ft. deep, drains N.20°W.
70.25	Mouth of ravine, drains N.
78.75	Spur, of limestone formation, 65 ft. above ravine, projects N.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in a stone mound on solid rock for cor. of secs. 4, 5, 32 and 33., with brass cap marked

T 13 S R 17 W

S 32 | S 33

S 5 | S 4

T 14 S

1916

Raise a mound of stone 3 ft. base 2 ft. high W. of cor.
Land rolling bench and low foot hills,
Soil gravelly and stony 5 to 12 ins. deep, coarse texture, dry, on limestone and gravel base.
No timber., Undergrowth shadscale.
This cor. is 40 ft. below spur.,

West on a true line bet. secs. 5 and 32.
Descend over foot hills, limestone formation, through shadscale undergrowth.

2.75	Ravine, 75 ft. below sec. cor. , drains N.20°W.
6.75	Spur, 100 ft. above ravine, projects N.20°W.
16.00	Ravine, 50 ft. below spur, drains, N.20°W.
20.50	Spur, 55 ft. above ravine, projects N. 20°W.
26.75	Ravine, 60 ft., below spur, drains N.
36.00	Spur, 110 ft. above ravine, projects N.20°W.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in

South Boundary of T. 13 S., R. 17 W.

Chains.	
	a stone mound on solid rock for ¼ sec. cor. with brass cap marked
	S 32
	¼
	S 5
	1916
	Raise a mound of stone 3 ft. base 2 ft. high N. of cor.
	This ¼ sec. cor. is 80 ft. below spur.
44.00	Ravine, 65 ft. below ¼ sec. cor., drains N. 30°W. wood road in bottom bears N.30°W. and S.30°E.
50.00	Spur, 30 ft. above ravine, projects N.30°W.,
60.50	Swale, 40 ft. below spur, drains N.30°W.
67.00	Spur, 35 ft. above swale, projects N.35°W.
72.00	Swale, 50 ft. below spur, drains N.30°W.
76.00	Spur, 25 ft., above swale, projects N.30°W.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of secs. 5, 6, 31 and 32., with brass cap marked
	T 13 S R 17 W
	S 31 S 32
	S 6 S 5
	T 14 S
	1916
	Raise a mound of stone 3 ft. base 2 ft. high W. of cor.
	Land foot hills of limestone formation.
	Poor stony gravelly soil 3 to 6 ins. deep, coarse texture dry, on limestone base.
	No timber. Undergrowth shadscale.

	West on a true line bet. secs. 6 and 31.
	Descend over stony low foot hills limestone formation through shadscale undergrowth.
1.00	Swale 5 ft., below sec. cor.. drains N.35°W.
3.50	Low point of spur 20 ft. high projects N.20°W.
5.00	Leave foot hills enter bench bears N.10°E., and S.10°W.
12.00	Wash, 15 lks. wide 4 ft. deep, drains N.40°W.,

Chains.

16.00 Wash, 18 lks. wide 7 ft. deep, drains N.45°W.

22.00 Dim wood road bears N.25°E., and S.25°W.

28.00 Dim wood road bears N.10°W., and S.10°E.

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

S 31

¼

S 6

1916

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

83.00 The cor. of T.13 S., Rs. 17 and 18 W., heretofore described.

E. 5.00 chs. foot hills of limestone formation.

W. 78.00 chs. bench land sloping NW., poor sandy soil, with gravel and stones, 4 to 14 ins, deep, coarse texture dry, on gravel and clay base and subsoil.

No timber. Undergrowth shadscale.

Subdivision of T. 13 S., R., 17 W.

From the cor. of secs. 1, 2, 35 and 36 on the S., bdy. of the Tp. heretofore described.

N.0°01'W., bet. secs. 35 and 36.

Descend over gently rolling bench land, through small shadscale undergrowth.

2.80 Swale, 25 ft. below sec. cor. drains N.30°E.,

11.00 Top of bench descend, bears E. and W.

15.00 Foot of bench, 75 ft. below sec. cor. bears E. and W.

34.00 Swale, 1.00 chs. wide, 20 ft. deep, drains N.10°E.,

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

S 35 | ¼ | S 36

1916

Raise a mound of stone 3 ft. base 2 ft. high W. of cor.

51.00 Swale, 1.50 chs. wide, 15 ft. deep, drains N.10°W.

Subdivision of T. 13 S., R. 17 W.

Chains.	
65.00	Swale, 1.25 chs. wide 14 ft. deep, drains N.40°W.,
80.00	Set an iron post, 5 ft. long, 2 ins. in dia., 24 ins. in the ground for the cor. of secs. 25, 26, 35 and 36, with brass cap marked T 13 S R 17 W S 26 | S 25 S 35 | S 36 1916 Raise a mound of stone 3 ft. base 2 ft. high W. of cor.
	Rolling bench land.
	Poor stony gravelly soil, 6 to 12 ins. deep, coarse texture, dry, on limestone and gravel base.
	No timber. Undergrowth shadscale.
	East on a random line bet. secs. 25 and 36.
40.00	Set temp. ¼ sec. cor.
80.04	Intersect E. bdy. of the Tp. 9 lks. S. of the cor. of secs. 25,30,31 and 36.
	Thence
	S.89°58'W., on a true line bet. secs. 25 and 36.
	Ascend over gently rolling bench land sloping N. through small shadscale undergrowth.
13.80	Ridge, 40 ft. above sec. cor., bears N.30°W., and S.30°E.
13.90	Wood road bears N.80°E. and S.80°W.
21.40	Wood road bears N.40°W. and S.40°E.
28.50	Wash, 2.00 chs. wide, 7 ft. deep, drains N.40°W.
33.00	Wash, 2.00 chs. wide 4 ft. deep, drains N.
40.02	Set an iron post, 5 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked S 25 ¼ S. 36 1916 Raise a mound of stone 2 ft. base 1½ ft. high N. of cor.
60.00	Wash, 20 lks. wide 6 ft. deep, drains N.
71.50	Wash, 25 lks. wide 5 ft. deep, drains N.

Subdivision of T. 13 S., R. 17 W.

Chains.	
76.50	Wash, 30 lks. wide 6 ft. deep, drains N.
80.04	The cor. of secs. 25, 26, 35 and 36.
	Land gently rolling bench.
	Poor gravelly soil, 6 to 12 ins. deep, coarse texture, dry, on gravel and limestone base.
	No timber. Undergrowth shadscale.

	N.0°01'W., bet. secs. 25 and 26.
	Descend gently over bench land through small shadscale undergrowth.
12.30	Wood road bears E. and W.
24.00	Wash, 20 lks. wide 4 ft. deep, drains N.30°W.,
33.00	South bank of draw, bears N.45°W. and S.45°E.
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 25 1916
	Raise a mound of stone 2 ft. base 1½ ft. high W. of cor.
43.00	Draw, 60 ft. deep. drains N.45°W.
44.50	N. bank of draw, 35 ft., above ¼ sec. cor. bears N.45°W. and S.45°E.
57.50	Foot of bank strewn with black lava boulders bears NE. and SW.
58.50	Top of bank 30 ft. high bears NE. and SW. thence descend gently.
80.00	Set an iron post, 3 ft. long, 2 in. in dia., 24 ins. in the ground for cor. of secs. 23, 24, 25 and 26, with brass cap marked T 13 S R 17 W S 23 | S 24 S 26 | S 25 1916
	Raise a mound of stone 3 ft. base 2 ft. high W. of cor.
	Land rolling bench ,.
	Poor stony soil, 6 to 14 ins. deep. coarse texture, dry,

Subdivision of T. 13 S., R. 17 W.

Chains.	
	on gravel and limestone base.
	No timber. Undergrowth shadscale,.

	N.89°56'E., on a random line bet. secs. 24 and 25.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect E. bdy. of the Tp. 3 lks. N. of cor. of secs. 19, 24, 25 and 30.
	Thence
	S.89°57'W., on a true line bet. secs. 24 and 25.
	Ascend gently over lava swell strewn with huge volcanic boulders through small shadscale undergrowth.
25.00	Begin gradual descent 65 ft. above sec. cor. bears NE. and SW.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground to solid rock and 14 ins. in a stone mound, for ¼ sec. cor., with brass cap marked ¼ S 24 / S 25 1916
	Raise a mound of stone 3 ft. base 2 ft. high N. of cor.
49.50	Leave huge boulders enter stony sandy land bears N.40°E. and S.40°W.,
80.00	The cor. of secs., 23, 24, 25 and 26.
	Land rolling lava swell.
	Poor sandy soil with stones and volcanic boulders, 7 to 12 ins. deep, coarse texture, dry. on gravel and stone base.
	No timber. Undergrowth shadscale.
	This cor. is 225 ft. below lava swell.

	‖ 0°01'W., bet. secs. 23 and 24.
	Descend gently over rolling bench land ,stony, through small shadscale undergrowth.
15.50	Wash, 2.50 lks. wide 20 ft. deep, drains N.45°W.
20.00	Leave bench descend bears N.45°E. and S.45°W.

Chains.

22.00 Enter gently rolling valley 35 ft. below bench, bears N.45°E., and S.45°W.

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 23 | S 24

1916

Raise a mound of stone 3 ft. base 2 ft. high W. of cor.

80.00 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 13 S R 17 W.

S 14 + S 13

S 23 S 24

1916

Raise a mound of stone 3 ft., base 2 ft. high W. of cor., S. 22. 00 chs. rolling stony bench land sloping N. Poor stony soil, coarse texture, dry, on gravel and stone base; N. 58.00 chs. gently rolling valley land, draining NW., good sandy soil, medium texture, dry, 5 to 14 ins. deep, on clay and gravel subsoil.

No timber. Undergrowth shadscale.

N.89°57'E., on a random line bet. secs., 13 and 24.

40.00 Set temp. ¼ sec. cor.

80.02 Intersect E. bdy. of the Tp. 9 lks. S., of cor. of secs. 13, 18, 19 and 24.

Thence

N.89°58'W., on a true line bet. secs. 13 and 24.

Descend over very gently rolling valley land through small shadscale undergrowth.

1.00 Wash, 20 lks. wide 3 ft. deep, drains NW.,

3.00 Enter scattering whitesage among shadscale bears N. and S.

16.00 Enter dry lake bears NE. and SW.

21.00 Leave dry lake enter land strewn with small lava stones bears NE., and SW.

Subdivision of T. 13 S., R. 17 W.

Chains	
35.00	Leave lava stony land bears NE. and SW.
40.01	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked S 13 ¼ S 24 1916
	Raise a mound of stone 3 ft. base 2 ft. high N. of cor.
80.02	The cor. of secs. 13, 14, 23 and 24.
	Land gently rolling valley. Good sandy soil, medium texture, dry, 4 to 14 ins. deep, with some stones. on clay and gravel subsoil.
	No timber. Undergrowth shadscale and white sage.

	N.0°01'W., bet. secs. 13 and 14.
	Over gently rolling valley land through small shadscale and whitesage undergrowth.
25.50	Wash, 25 lks. wide 4 ft. deep, drains N.40°W.,
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 14 | S 13 1916
	Raise a mound of stone 2 ft. base 1½ ft. high W. of cor.
48.60	Wash, 20 lks. wide, 3 ft. deep, drains N.40°W.,
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 and 14, with brass cap marked T 13 S R 17 W S 11 | S 12 S 14 | S 13 1916
	Raise a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Land gently rolling, draining NW.,
	Poor sandy soil, with stones and gravel, 3 to 20 ins. deep, coarse texture, dry, on clay and gravel subsoil.

Chains.

No timber., Undergrowth shadscale and white sage.

N.89°53'E., on a random line bet. secs. 12 and 13.

40.00 Set temp. ¼ sec. cor.

80.02 Intersect E. bdy. of the Tp. 2 lks. S. of cor. of secs. 7, 12, 13 and 18.

Thence

S.89°52'W., on a true line bet. secs., 12 and 13.

Descend over gently rolling valley land through small shadscale undergrowth.

12.60 Wash, 50 lks. wide 4 ft. deep, drains N.30°W.; enter scattered growth of white sage bears N. and S.

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

S 12

¼ ——

S 13

1916

Raise a mound of stone 2½ ft. base 2 ft. high N. of cor.

63.70 Wash, 30 lks. wide 3 ft. deep, drains N.40°W.

80.02 The cor. of secs. 11, 12, 13 and 14.

Land gently rolling draining NW.,

Poor sandy soil with some gravel and stones, 4 to 9 ins. deep, coarse texture, dry on sand clay and gravel sub-soil.

No timber. Undergrowth shadscale and whitesage.

N.0°01'W., bet. secs. 11 and 12.

Over nearly level valley land through small shadscale and white sage undergrowth.

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 11 | S 12

1916

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

Subdivision of T. 13 S., R. 17 W.

Chains	
80.00	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 13 S. R 17 W S 2 | S 1 S 11 | S 12 1916 Raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Land nearly level valley draining NW., Sandy soil, with some gravel and stones, 10 to 20 ins. deep, medium texture, dry, on sand and clay subsoil. No timber. Undergrowth shadscale and white sage.

	N.89°52'E., on a random line bet. secs. 1 and 12.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect E., bdy. of the Tp. 12 lks. N. of cor. of secs. 1, 6, 7 and 12.
	Thence
	S.89°57'W., on a true line bet. secs. 1 and 12.
	Descend gently over valley land, some stones and volcanic cinders, through small shadscale and white sage undergrowth.
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 S 1 ¼ S 12 1916 Raise a mound of stone 2 ft. base 1½ ft. high N. of cor.
80.00	The cor. of secs. 1, 2, 11 and 12.
	Land very gently rolling valley draining NW.
	Soil good sandy loam, with some gravel and stones, 10 to 20 ins. deep, medium texture, dry, on clay subsoil,
	No timber. Undergrowth shadscale and white sage.

Chains.

N.0°01'W., on a random line bet. secs. 1 and 2.

40.00 Set temp. ¼ sec. cor.,

65.80 Intersect N. bdy. of the Tp. 19 lks. E. of cor. of secs. 1, 2, 35 and 36, heretofore described.

Thence

S.0°06'E., on a true line bet. secs. 1 and 2.

Descend over sandy bench land through small shadscale undergrowth.

15.80 Enter valley at foot of bench, 35 ft. below sec. cor. bears NW. and SE. and white sage among shadscale.

55.80 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 2 | S 1

1916

Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.

95.80 The cor. of secs. 1, 2, 11 and 12:

W. 15.80 chs. SW. slope of bench sandy.

S. 80.00 chs. good clay soil. 12 to 15 ins. deep, fine texture, dry, on clay and sand subsoil.

No timber. Undergrowth shadscale and white sage.

From the cor. of secs., 2, 3, 34 and 35 on S. bdy. of the Tp., heretofore described.

N.0°01'W., bet. secs. 34 and 35.

Descend over gently rolling foot hills through shadscale undergrowth.

17.00 Enter dry lake bears N.30°E., and S.30°W.,

18.30 Elm wood road bears N.80°E., and S.80°W.

27.00 Leave dry lake bears N.80°E., and S.80°W.;

28.00 Bank covered with volcanic stones bears E. and W. 15 ft. above dry lake.

30.00 Leave volcanic stones enter coarse sandy soil bears E. and W.

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

Subdivision of T. 13 S., R. 17 W.,

Chains.

¼.

S 34 | S 35

1916

Raise a mound of stone 3 ft. base 2 ft, high W. of cor.

80.00 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 13 S R 17 W

S 27 | S 26

S 34 | S 35

1916

Raise a mound of stone 3 ft. base 1½ ft. high W. of cor.

Land gently rolling.

Soil good sandy loam, 3 to 12 ins. deep, medium texture, with some volcanic stones and cinders, dry, on gravel and limestone base.

No timber. Undergrowth chaparral.

Went on a random line bet. secs., 26 and 35.

40.00 Set temp. ¼ sec. cor.

80.00 Intersect the cor. of secs. 23, 26, 35 and 36.

Thence

West, on a true line bet. secs. 26 and 35.

Descend gently over rolling bench land sloping north limestone formation, through small chaparral undergrowth.

5.50 Wash, 1.00 ch. wide 10 ft. deep, drains N.10°W.

12.00 Limestone spur, 10 ft. high, projects N.

12.50 Wash, 25 ft., below spur, drains N.

17.00 Enter sandy soil with fine volcanic cinders bears N. and S.

26.00 Wash, 20 lks. wide, 2 ft. deep, drains N.

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 26

35

1916

Subdivision of T. 13 S., R. 17 W.

Chains.	
	Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.
80.00	The cor. of secs. 26,27, 34 and 35.
	Land rolling bench sloping N.
	E. 16.00 chs. limestone formation, W. 64.00 chs. sandy, coarse texture, dry, on gravel and stone base.
	No timber. Undergrowth shadscale.

	N.0°01'W., bet. secs. 26 and 27.
	Descend over gently rolling bench land through small shadscale undergrowth.
31.70	Wood road bears N.80°W. and S.80°E.
38.00	Enter land strewn with lava boulders bears E. and W.
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 27 | S 26
	1916
	Raise a mound of stone 3 ft. base 2 ft. high W. of cor.
78.40	Wash, 1.00 ch. wide, 15 ft. deep, drains N.60°W.,
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 and 27, with brass cap marked
	T 13 S. R 17 W.
	S 22 | S 23
	S 27 | S 26
	1916
	Raise a mound of stone 3 ft. base 2 ft. high W. of cor.
	Land rolling bench.
	S. 38.00 chs. sandy soil 10 to 20 ins. deep, medium texture, dry, on gravel and sand subsoil. N. 42.00 chs. stony volcanic formation. coarse texture, dry. on stone base.
	No timber. Undergrowth. shadscale.

	East on a random line bet. secs. 23 and 26.
40.00	Set temp. ¼ sec. cor.

Subdivision of T. N. ., R. 17 W.

Chains.	
80.05	Intersect N. and S. line 12 lks. E. of cor. of secs. 23 24, 25 and 26.
	Thence
	S.89°55'W., on a true line bet. secs., 23 and 26.
	Descend over gently rolling bench land, loose lava boulders and fine volcanic cinders, through small chaparral undergrowth.
24.50	Swale, 75 lks. wide, 15 ft. deep, drains N.40°W.
33.00	Wash, 4.00 chs. wide 15 ft. deep, drains N.40°W.
40.01½	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked S 23 ¼ S 26 1916
	Raise a mound of stone 3 ft. base 2 ft. high N. of cor.
	Thence along edge of bench .
47.00	Swale, 1.70 chs. wide 20 ft. deep, drains N.20°W.
51.50	Swale, 1.50 chs. wide 20 ft. deep, drains N.10°W.
56.00	Swale, 1.00 ch. wide 20 ft. deep, drains N.10°W.
64.20	Swale, 2.00 chs. wide 25 ft. deep, drains N.10°W.
74.50	Swale, 1.50 chs. wide, 15 ft. deep, drains N.10°W.
80.03	The cor. of secs. 22, 23, 26 and 27.
	Land rolling bench sloping N.
	Soil poor stony, and gravelly, with fine volcanic cinders and cobble stones. coarse texture, dry on gravel base.
	No timber. Undergrowth chaparral.

	N.0°01'W., bet. secs. 22 and 23.
	Descend over rolling bench land stony, through small chaparral undergrowth.
1.50	Foot of bench, 40 ft. below sec. cor., and leave stony land, bears E. and W.
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 S 22 | S 23 1916

Subdivision of T. 13 S., R. 17 W.

Chains.	
	Raise a mound of stone 3 ft. base 2 ft. high W. of cor.
46.50	Swale, 1.00 ch. wide 10 ft. deep, drains N.20°W.
52.50	Same swale, 1.00 ch. wide, 10 ft. deep, drains N.10°E.
59.00	Swale, 2.00 chs. wide 15 ft., deep, drains N.40°W.,
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 14, 15, 22 and 23, with brass cap marked T 13 S R 17 W S 15 | S 14 S 22 | S 23 1916 Raise a mound of stone 3 ft. base 2 ft. high W. of cor. S.1.50 chs. rolling stony bench, sloping N. coarse sandy soil, dry, on gravelly base. N. 78.50 chs. gently rolling valley draining NW., good clay loam, with some stones and gravel, dry, medium texture, on clay and sand subsoil. No timber. Undergrowth shadscale.
	N.89°55'E., on a random line bet. secs. 14 and 23.
40.00	Set temp. ¼ sec. cor.
80.05	Intersect N. and S. line 5 lks. N. of cor. of secs., 13, 14, 23 and 24.
	Thence
	S.89°57'W., on a true line bet. secs., 14 and 23.
	Descend over gently rolling land draining NW., some lava stones and gravel, through shadscale and whitesage undergrowth.
21.00	Wash 10 lks. wide 3 ft. deep, drains NW.
35.50	Wash 12 lks. wide 3 ft. deep, drains NW.
40.02½	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked S 14 ¼ | S 23 1916 Raise a mound of stone 2 ft. base 1½ ft. hgih N.of cor.

Subdivision of T. 13 S., R. 17 W.

Chains	
48.60	Wash. 40 lks. wide 4 ft. deep, drains N.40°W.
62.50	Wash, 1.00 ch. wide 6 ft. deep, drains N.40°W.
70.50	Wash, 80 lks. wide, 4 ft. deep, drains N.40°W.
80.05	The cor. of secs. 14, 15, 22 and 23.
	Land gently rolling valley.
	Good sandy soil, with some stones and gravel, 7 to 14 ins. deep, medium texture, dry. on gravel and clay base and subsoil.
	No timber. Undergrowth shadscale and white sage.

	N.0°01'W., bet. secs. 14 and 15.
	Over gently rolling land, some lava stones, through shadscale and white sage undergrowth.
20.00	Wash, 1.00 ch. wide 14 ft. deep, drains N.40°W.
35.00	Junction of two washes one from S.45°E. and one from S.30°E., 1.00 chs. wide 10 ft. deep, drains N.40°W.
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 15 | S 14 1916
	Raise a mound of stone 3 ft. base 2 ft. high W. of cor.
55.50	Wash, 40 lks. wide, 5 ft. deep, drains N.40°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 and 15, with brass cap marked T 13 S R 17 W S 10 | S 11 S 15 | S 14 1916
	Raise a mound of stone 3 ft. base 2 ft. high W. of cor.
	Land gently rolling valley draining NW.
	Good sandy soil, 3 to 20 ins. deep, medium texture, dry, with some stones and gravel, on clay and sand subsoil
	No timber. Undergrowth shadscale and white sage.

Chains.	
	N.89°57'E., on a random line bet. secs. 11 and 14.
40.00	Set temp. ¼ sec.. cor.
80.13	Intersect N. and S. line 5 lks. N. of cor. of secs. 11, 12, 13 and 14.
	Thence
	S.89°59'W., on a true line bet. secs. 11 and 14.
	Over gently rolling valley land through shadscale and white sage undergrowth.
33.20	Wash, 15 lks. wide 1 ft. deep, drains N.40°W.
40.06½	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked S 11 ¼ —— S 14 1916
	Raise a mound of stone 3 ft. base 2 ft. high N. of cor.
52.00	Wash, 20 lks. wide, 2 ft. deep, drains N.10°W.
80.13	The cor. of secs. 10, 11, 14 and 15.
	Land gently rolling valley draining NW.,
	Good sandy soil, 7 to 20 ins. deep, medium texture, dry, with some gravel and stones, on clay subsoil.
	No timber. Undergrowth white sage and shadscale.

	N.0°01'W., bet. secs. 10 and 11.
	Over gently rolling valley land through small shadscale and white sage undergrowth.
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 10 | S 11 1916
	Dig pits 16 x 18 x 12 ins. N. and S. of post, 3 ft. dist.
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 and 11, with brass cap marked

Subdivision of T..13.S., R..17 W.

Chains.

T 13 S R 17 W

S 3 | S 2

S 10 | S 11

1916

Raise a mound of stone 2 ft. base 1½ ft. high W. of cor.
Land gently rolling valley draining NW.
Good sandy loam, 10 to 14 ins. deep, fine texture, dry, on clay subsoil,
No timber. Undergrowth shadscale and white sage.

N.89°59'E., on a random line bet. secs. 2 and 11.

40.00 Set temp. ¼ sec. cor.

80.13 Intersect N. and S. line 7 lks. S. of the cor. of secs. 1, 2, 11 and 12.

Thence

S.89°56'W., on a true line bet. secs. 2 and 11.

Over gently rolling valley land through small shadscale and white sage under rowth.

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

S 2

¼

S 11

1916

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

80.13 The cor. of secs. 2, 3, 10 and 11.

Land gently rolling valley draining NW.
Good sandy soil, 10 to 20 ins. deep, medium texture, dry, with some gravel, on clay subsoil.
No timber. Undergrowth shadscale and white sage.

N.0°01'W., on a random line bet. secs. 2 and 3.

40.00 Set temp. ¼ sec. cor.

96.00 Intersect N. bdy. of the Tp.33 lks. S.89°51'E.,of cor. of secs. 2, 3, 34 and 35. heretofore described.

Thence

S.0°13'E., on a true line bet. secs. 2 and 3.

Subdivision of T..13 S., R..17 W.

Chains.	
	Over nearly level valley land through shadscale and white sage undergrowth.
2.00	Leave shadscale and white sage enter greasewood undergrowth bears E. and W.
51.00	Leave greasewood enter shadscale and white sage undergrowth bears NE. and SW.
56.00	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 3 | S 2 1916
	Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.
96.00	The cor. of secs.2, 3, 10 and 11.
	Land nearly level valley draining NW.,
	Good clay, loam, 6 to 12 ins. deep, fine texture, dry, on clay subsoil.
	No timber. Undergrowth shadscale, white sage and greasewood.

	From the cor. of secs. 3, 4, 33 and 34 on the S. bdy. of the Tp. heretofore described.
	N.0°02'W., bet. secs. 33 and 34.
	Descend over stony , gravelly bench land along W. side of wash.
00.75	Enter wash, drains N.5°W., thence along same to
16.50	Main wash, 2.00 chs. wide, 6 ft. deep, drains N.40°W.,
17.00	Enter lava stone formation and ascend bears NW. and SE.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 3 ins. in the ground to solid rock and 23 ins. in a stone mound, for ¼ sec. cor., with brass cap marked ¼ S 33 | S 34 1916
	Raise a mound of stone 3 ft. base 2 ft. high W. of cor.
	This ¼ sec. cor. is 105 ft. above wash.
31.20	Top of black volcanic ridge, 285 ft. above ¼ sec. cor. bears N.40°W. and S.40°E.

Subdivision of T. 13 S., R. 17 W.

Chains.	
64.70	Foot of black volcanic ridge, 335 ft. below top, bears N.40°W. and S.40°E.; enter shadscale and white sage undergrowth.
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 13 S R 17 W. S 28 | S 27 S 33 | S 34 1916 Raise a mound of stone 3 ft. base 2 ft. high W. of cor.
	S. 64.70 chs. mountainous and rolling hills, stony, lava formation, on limestone base.
	N. 15.30 chs. gently rolling bench sloping N. coarse sandy soil, with fine volcanic ash or cinders. 5 to 20 ins. deep, on gravel base.
	No timber. Undergrowth shadscale and white sage.

	East, on a random line bet. secs. 27 and 34.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line 5 lks. N. of cor. of secs. 26, 27,34 and 35.
	Thence
	N.89°58'W., on a true line bet. secs. 27 and 34.
	Over rolling bench land draining N. through small shadscale undergrowth.
40.00	Set an iron post, 3 ft., long, 1 in. in dia.,26 ins. in the ground for ½ sec. cor., with brass cap marked S 27 ½ | S 34 1916 Raise a mound of stone 2 ft. base 1½ ft. high N. of cor.
80.00	The cor. of secs. 27, 28, 33 and 34.
	Land gently rolling bench sloping N.
	Poor sandy soil, with fine volcanic cinders, 7 to 15 ins.

Subdivision of T. 13 S., R. 17 W.

Chains.

deep, coarse texture, dry, on sand and limestone base.
No timber. Undergrowth shadscale.

N.0°02'W., bet. secs. 27 and 28.

Descend over gently rolling bench land through small shadscale and white sage undergrowth.

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 28 | S 27

1916

Dig pits 18 x 18 x 12 ins. E. and S. of post, 3 ft. dist.
This ¼ sec. cor. is 75 ft. below sec. cor.

60.80 Wood road bears N.60°W., and S.60°E.

79.50 Leave bench descend bears N.80°W., and 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. 21, 22, 27 and 28, with brass cap marked

T 13 S. R 17 W

S 21 | S 22

S 28 | S 27

1916

Raise a mound of stone 3 ft. base 2 ft. high W. of cor.
Land rolling bench draining N.
Soil poor stony sandy loam, 7 to 14 ins. deep, coarse texture, dry, on gravel and stone base.
No timber. Undergrowth shadscale and white sage.
This sec. cor. is 75 ft. below ¼ sec. cor.,

[illegible]., on a random line bet. secs. 22 and 27.

[illegible].00 Set temp. [illegible] sec. cor.

[illegible]0.0[illegible] Intersect [illegible] and [illegible] line 14 lks. S. of cor. of secs. 22, 2[illegible], 26 and 27.

Thence

[illegible]., on a true line bet. secs. 22 and 27.

Subdivision of T. 13 S., R. 17 W.

Chains	
	Descend along edge of bench over stony land, through shadscale and white sage undergrowth.
1.60	Swale, 1.00 ch. wide 35 ft. deep, drains N.20°W.
6.00	Swale, 2.00 chs. wide 30 ft. deep, drains N.20°W.
20.40	Swale, 3.00 chs. wide 30 ft. deep, drains N.20°W.
27.00	Swale, 1.50 chs. wide 20 ft. deep, drains N.20°W.
36.30	Swale, 2.00 chs. wide 20 ft. deep, drains N.20°W.
40.04	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 22 | S 27 | 1916 Raise a mound of stone 3 ft. base 2 ft. high N. of cor.
40.50	Swale, 1.00 ch. wide 25 ft. deep, drains N.30°W.
47.70	Swale, 1.10 chs. wide 25 ft. deep, drains N. 30°W.
53.00	Swale, 1.20 chs. wide 20 ft. deep, drains N.30°W.
60.50	Swale, 1.20 chs. wide 25 ft. deep, drains N.40°W.
69.50	Swale, 1.25 chs. wide, 25 ft. deep, drains N.30°W.
80.08	The cor. of secs. 21, 22, 27 and 28. Land broken edge of bench sloping N. Poor gravelly stony soil, 10 to 20 ins. deep, coarse texture, dry, on gravel base. No timber. Undergrowth shadscale and white sage.

	N.0°02'W. bet secs., 21 and 22. Descend over gently rolling land through small shadscale and white sage undergrowth.
38.50	Bank 15 ft. high bears E. and W.
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 21 | S 22 1916 Raise a mound of stone 3 ft. base 2 ft. high W. of cor.
60.50	Small clay ridge, 12 ft. high. bears E. and W.

Chains.

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. 13 S. R. 17 E.

S 16 | S 15

S 21 | S 22

1916

Raise a mound of stone 3 ft. base 1½ ft. high W. of cor.

Land gently rolling draining NW.,

Light sandy soil, 10 to 14 ins. deep, coarse texture, dry, on clay and gravel subsoil.

No timber. Undergrowth shadscale and white sage.

N.89°58'E., on a random line bet. secs. 15 and 22.

40.00 Set temp. ¼ sec. cor.

80.00 Intersect the cor. of secs.14, 15, 22 and 23.

Thence

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

Over gently rolling land through small shadscale and white sage undergrowth.

10.50 Wash, 60 lks. wide, 10 ft. deep, drains N.40°W.

27.00 Wash, 15 lks. wide, 5 ft. deep, drains N.

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

S 15

S 22

1916

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

40.10 Wash 15 lks. wide, 5 ft. deep, drains N.

52.70 Wash, 20 lks. wide 6 ft. deep, drains N.

74.30 Wash,15 lks. wide 4 ft. deep, drains N.10°E.

80.00 The cor. of secs. 15, 16, 21 and 22.

Land gently rolling draining E. and NE.

Good sandy soil, 10 to 20 ins. deep, with some stones and gravel, coarse texture, dry, on sand and gravel

Subdivision of T. 13 S., R. 17 W.

Chains.	
	base and subsoil.
	No timber. Undergrowth shadscale and white sage.

	N.0°02'W., bet., secs., 15 and 16.
	Over gently rolling land draining NW, through small shadscale and white sage undergrowth.
7.50	Sand bank 12 ft. high bears N.80°E., and S.80°W.
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 16 | S 15
	1916
	Raise a mound of stone 2 ft. base 1½ ft. high W. of cor.
78.00	Sand ridge 10 ft. high bears N.80°W., and 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. 9, 10, 15 and 16, with brass cap marked
	T 13 S R 17 W
	S 9 | S 10
	S 16 | S 15
	1916
	Raise a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Land gently rolling draining NW.
	Good sandy soil, 10 to 14 ins. deep, medium texture, dry, with some gravel and stones, on clay and sand subsoil.
	No timber, Undergrowth shadscale and white sage.

	N.89°56'E., on a random line bet. secs. 10 and 15.
40.00	Set temp. ¼ sec. cor.,
80.02	Intersect the cor. of secs., 10, 11, 14 and 15.
	Thence
	S.89°56'W., on a true line bet. secs. 10 and 15.
	Over gently rolling land through small shadscale and white sage undergrowth.
40.01	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in

Subdivision of T. 13 S., R. 17 W.

Chains.	
	the ground for ¼ sec. cor., with brass cap marked S 10 / ¼ / S 15 1916
	Raise a mound of stone 2 ft. base 1½ ft. high N. of cor.
45.00	Wash, 30 lks. wide 6 ft. deep, drains N.
49.00	Wash, 20 lks. wide 4 ft. wide, drains N.
80.02	The cor. of secs. 9, 10, 15 and 16.
	Land gently rolling draining N.
	Good sandy loam 10 to 20 ins. deep, medium texture, dry, with some gravel and stones, on clay subsoil.
	No timber. Undergrowth shadscale and white sage.
	N.0°02'W., bet. secs. 9 and 10.
	Over gently rolling land through small shadscale and white sage undergrowth.
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 S 9 / ¼ / S 10 1916
	Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.
75.00	Enter low sand swell 10 ft. high 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. 3, 4, 9 and 10, with brass cap marked T 13 S R 17 W S 4 / S 3 S 9 / S 10 1916
	Dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.
	Land gently rolling draining N.
	Good sandy loam, 5 to 20 ins. deep, medium texture, dry, on sand and clay subsoil.
	No timber.
	Undergrowth white sage and shadscale.

Subdivision of T. 13 S. R. 17 W.

Chains

From this sec. cor. S.P.Jensen's house bears N.17°30'W.
Well near S.P.Jensen's house bears N. 16°30'W.
Corral bears N.15°30'W.
Head gate on N. bank of reservoir bears N.26°30'W.,

N.89°56'E., on a random line bet. secs. 3 and 10.

40.00 Set temp. ¼ sec. cor.

80.03 Intersect N. and S. line 5 lks. S. of cor. of secs., 2, 3, 10 and 11.

Thence

S. 89°54'W., on a true line bet. secs. 3 and 10.

Over gently rolling land through shadscale and white sage undergrowth.

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

S 3
¼
S 10
1916

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

56.80 Enter sand swell 10 ft. high bears N. and S.

80.03 The cor. of secs., 3, 4, 9 and 10.

Land gently rolling.

Good sandy loam, 5 to 20 ins. deep, medium texture, dry, on clay subsoil.

No timber. Undergrowth white sage and shadscale.

Note: A flag on the cor. of sections , 33 and 34. on N. bdy. of the Tp. being visible, bears N.0°24'W. this course being greater than allowable I run.

N.0°02'W., on a true line bet. secs. 3 and 4.

Across gently rolling land through shadscale and white sage undergrowth, across sand swell.

39.00 Leave sand swell descend bears N.40°E. and S.40°W.

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

Subdivision of T. 13 S. R. 17 W.

Chains	
	¼ S 4 | S 3 1916
	Dig pits 18 x 18 x 12 ins. N. and S. of post, 3 ft.dist.
	From this ¼ sec. cor. S.P.Jensen's house bears N.59°20'W.
	S.P.Jensen's Well bears N.56 °30'W.
	S.P.Jensen's Corral bears N.50°W.
40.50	Enter clay bottoms 10 ft. below sand swell bears N.40°E. and S.40°W.
40.60	Irrigation ditch drains N.35°E.
41.40	Road Troutcreek to Fish Springs bears N.40°E. and S.40 °W.
42.00	Enter greasewood undergrowth bears NE. and SW.
50.00	A Well bears S.38°30'W., 5,67 chs. dist.
	Head gate on N. bank of reservoir bears S.35°45'W.
60.00	SW. cor. of a plot of cultivated land containing about 40 acres bears S.86°45'E., 20.25 chs. dist.
62.00	Irrigation ditch drains N.20°E.
92.20	Road Troutcreek to Fish Springs bears N.60°E. and S.60°W.
96.23	Intersect N. bdy. of the Tp. 62 lks. S.89°52'E.of the cor. of secs. 33 and 34, heretofore described.
	Set an iron post, 3 ft. long 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 3 and 4, with brass cap marked
	T 12 S R 17 W S 34 S 4 | S 3 T.13 S | R 17 W 6 C 1916
	Dig pits 24 x 18 x 12 ins. crosswise on each line, E. and W. 3 ft., and S. of post 7 ft. dist.
	Land gently rolling draining NE.
	S. 40.50 chs. Sandy soil, 16 to 20 ins. deep. medium texture, dry on sand and clay subsoil. N. 52.76 chs. clay bottoms, fine texture, dry, on clay subsoil.
	No timber. Undergrowth white sage, shadscale and greasewoods.

Subdivision of T. 13 S., R. 17 W.

Chains.	
	From the cor. of secs., 4, 5, 32 and 33., on the S.bdy. of the Tp. heretofore described.
	N.0°03'W., bet. secs. 32 and 33.
	Descend over limestone foot hills through small shadscale undergrowth.
11.00	Leave foot hills enter rolling bench, 130 ft. below sec. cor. bears N.80°W., and S.80°E.
16.60	Dim wood road bears N.80°W., and S.80°E.
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 32 | S 33 1916
	Raise a mound of stone 3 ft. base 2 ft. high W. of cor.
49.00	Wash, 25 lks. wide 5 ft. deep, drains N.40°W.
52.80	Wood road bears N.50°W., and S.50°E.
59.00	Wash, 25 lks. wide, 5 ft. deep, drains N.50°W.
59.80	Wood road bears N.10°W. and S.40°E.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 28, 29, 32 and 33, with brass cap marked T 13 S | R 17 W S 29 | S 28 S 32 | S 33 1916
	Raise a mound of stone 3 ft. base 2 ft. high W. of cor.
	S. 11.00 chs. foot hills of limestone formation; N.69.00 chs., rolling bench draining N. coarse sandy soil, with gravel and stones, dry. on gravel base.
	No timber. Undergrowth shadscale.

	East on a random line bet. secs. 28 and 33.
40.00	Set temp. ¼ sec. cor.
79.84	Intersect E. and S. line 5 lks. S. of cor. of secs. 27, 28, 33 and 34.
	Thence
	S.89°58'W., on a true line bet. secs. 28 and 33.

Subdivision of T. 13 S., R. 17 W.

Chains.	
. .	Ascend gently over rolling bench land sloping N. through small shadscale undergrowth.
14.50	Point of lava rocks, 100 ft. above sec. cor., projects N.
31.50	Descend abruptly over loose lava stones bears N. and S.
33.50	Foot of abrupt descent enter small basin 70 ft. deep bears N. and S.
39.92	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked S 28 ¼ S 33 1916
	Raise a mound of stone 3 ft. base 2 ft. high W. of cor.
44.50	Leave basin bears N.10°W., and S.10°E.
51.00	Top of bank 20 ft. above basin bears NW. and SE.
57.00	Wash, 3.00 chs. wide 40 ft. deep, drains N.40°W.
61,20	Wash, 50 lks. wide 6 ft. deep, drains N.40°W.
70.00	Leave lava enter limestone formation bears N. and S.
79.84	The cor. of secs. 28, 29, 32 and 33.
	Land rolling bench and small foot hills.
	Gravelly stony soil, coarse texture, dry, on stone base.
	No timber. Undergrowth shadscale.

	N.0°05'W., bet. secs. 28 and 29.
	Descend over rolling bench land draining N. through shadscale undergrowth.
36.00	Wash, 50 lks. wide 1 ft. deep, drains N.5°W.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ½ sec. cor., with brass cap marked ½ S 29 | S 28 1916
	Raise a mound of stone 3 ft. base 2 ft. high W. of cor.
55.00	Wash, 20 lks. wide 6 ft. deep, drains N.10°E.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 20,21, 28 and 29, with brass cap marked

Subdivision of T. 13 S., R. 17 W.

Chains	
	T.13 S R 17.W S 20 | S 21 S 29 | S 28 1916
	Raise a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Land rolling bench sloping N.
	Poor sandy soil, 7 to 12 ins. deep, coarse texture, dry, on sand and gravel base.
	No timber. Undergrowth shadscale.
	N.89°58'E., on a random line bet. secs. 21 and 28.
40.00	Set temp. ¼ sec. cor.
79.93	Intersect N. and S. line 2 lks. N. of cor. of secs. 21, 22, 27 and 28.
	Thence
	S.89°59'W., on a true line bet. secs. 21 and 28.
	Along N. edge of bench stony land through shadscale and white sage undergrowth.
3.20	Head of swale, 1.20 chs. wide 20 ft. deep, drains N.
18.50	Head of swale, 1.50 chs. wide 25 ft. deep, drains N.
20.00	Top of bench bears N.80°W. and S.80°E.
31.80	Wash, 50 lks. wide 10 ft. deep, drains N.
39.96½	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked S 21 ¼ S 28 1916
	Raise a mound of stone 3 ft. base 2 ft. high N. of cor.
52.50	Swale, 50 lks. wide 10 ft. deep, drains N.
69.00	Wood road bears N.80°W., and S.80°E.
75.30	Wash, 2.00 chs. wide 5 ft. deep, drains N.10°W.
79.93	The cor. of secs. 20, 21, 28 and 29.
	Land bench sloping N.
	Soil coarse and stony. 3 to 20 ins. deep, dry, on gravel base.
	No timber. Undergrowth shadscale and white sage.

Subdivision of T..13 S., R. 17 W.

Chains.	
	N.0°03'W., bet. secs. 20 and 21.
	Descend over rolling bench land through small shadscale and white sage undergrowth.
10.00	Wood road bears N.80°W., and S.80°E.
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 20 | S 21 1916
	Raise a mound of stone 3 ft. base 2 ft. high W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 16, 17, 20 and 21, with brass cap marked T 13 S R 17 W S 17 | S 16 S 20 | S 21 1916
	Raise a mound of stone 3 ft. base 2 ft. high W. of cor.
	Land gently rolling sloping N.
	Light poor sandy soil, 5 to 12 ins. deep, medium texture, dry with some gravel and stones, on gravel base.
	No timber. Undergrowth shadscale and white sage.

	N.89°59'E., on a random line bet., secs. 16 and 21.
40.00	Set temp. ¼ sec. cor.
79.96	Intersect the cor. of secs. 15, 16, 21 and 22.
	Thence
	S.89°59'W., on a true line bet. secs. 16 and 21,
	Over gently rolling land through small shadscale and white sage undergrowth.
11.50	Wash, 20 lks. wide 4 ft. deep, drains NW.
35.50	Wash, 25 lks. wide 5 ft. deep, drains N.10°W.
39.98	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked S 16 ¼ S 21 1916

Subdivision of T. 13 S., R. 17 W.

Chains	
	Dig pits 18 x 18 x 12 ins. E and W. of post 3 ft. dist.,
52.00	Wash, 20 lks. wide 4 ft. deep, drains N.30°E.
60.20	Wash, 20 lks. wide 4 ft. deep, drains N.10°E.
78.50	Wash, 1.00 ch. wide, 1 ft.deep, drains N.
79.96	The cor. of secs.16,17, 20 and 21.
	Land gently rolling draining N.
	Good sandy loam, 10 to 20 ins. deep, fine texture ,dry, on clay and gravel subsoil.
	No timber. Undergrowth shadscale and white sage.

	N.0°03'W., bet. secs. 16 and 17.
	Descend gently over valley land through shadscale and white sage undergrowth.
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 17 | S 16 1916
	Raise a mound of stone 2 ft. base 1½ ft. high W. of cor.
80.00	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 13 S R 17 W S 8 | S 9. S 17 | S 16 1916
	Raise a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Land gently rolling draining N.
	Good fine clay loam, 12 to 20 ins. deep, fine texture, dry, on clay subsoil.
	No timber. Undergrowth shadscale and white sage.

	N.89°59'E., on a random line bet. secs. 9 and 16.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line 2 lks. S. of cor. of secs. 9,

Subdivision of T. 13 S., R. 17 W.

Chains.	
	10, 15 and 16.
	Thence
	S.89°58'W., on a true line bet. secs. 9 and 16.
	Over gently rolling land through shadscale and white sage undergrowth.
4.50	Top of sand ridge, 10 ft. high, bears N.60°W., and S.60°E.
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 S 9 ¼ S 16 1916 Raise a mound of stone 2 ft. base 1½ ft. high N. of cor.
61.00	Sand ridge, 12 ft. high, bears N.40°W., and S.40°E.
78.90	Wash, 1.00 ch. wide 1 ft. deep, drains N.
80.00	The cor. of secs. 8, 9, 16 and 17.
	Land gently rolling draining N.
	Good sandy loam, 10 to 16 ins. deep, medium texture, dry, on sand and clay subsoil.
	No timber. Undergrowth shadscale and white sage.

	N.0°03'W., bet. secs. 8 and 9.
	Descend over gently rolling land through shadscale and white sage, undergrowth.
25.00	Enter scattered greasewood undergrowth bears NE. and SW.
30.82	Wash, 15 ft. wide 8 ft. deep, drains N.40°E.
35.00	Leave scattered greasewood undergrowth bears N.40°E. and S.40°W.
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 8 | S 9 1916 Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.
77.00	Road Troutcreek to Fish Springs bears N.60°E. and S.60°W.

Subdivision of T. 13 S. R. 17 W.

Chains	
80.00	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 13 S R 17 W S 5 | S 4 S 8 | S 9 1916 Raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Land gently rolling draining NE. Good sandy loam, 5 to 20 ins. deep, medium texture, dry, on clay subsoil. No timber. Undergrowth shadscale, white sage and greasewood.

	N.89°58'E., on a random line bet. secs. 4 and 9.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line 2 lks. N. of the cor. of secs. 3, 4, 9 and 10.
	Thence
	S.89°59'W., on a true line bet. secs. 4 and 9.
	Over gently rolling land across sand swell, through shadscale and white sage undergrowth.
28.00	Leave sand swell, , shadscale and white sage enter clay bottoms and greasewood undergrowth bears NE. and SW.
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 S 4 ¼ S 9 1916 Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.
46.00	Wash, 15 lks. wide, 6 ft. deep, drains N.40°E.
65.00	Leave greasewood enter shadscale undergrowth bears NE. and SW.
69.00	Road Troutcreek to Fish Springs bears N.60°E., and S.60°W.

Subdivision of T. 13 S., R. 17 W.

Chains.

80.00 The cor. of secs. 4, 5, 8 and 9.

Land gently rolling draining NE.

E.28.00 chs. sandy soil 15 to 20 ins. deep, medium textur dry, on sand and clay base , W. 52.00 chs. clay loam 14 to 16 ins. deep, fine texture, dry, on clay subsoil No timber. Undergrowth shadscale, greasewood and white sage.

N.0°03'W,, on a true line bet. secs. 4 and 5.

Over gently rolling land through shadscale undergrowth,.

5.10 Road Troutcreek to Fish Springs bears N.40°E., and S.40°W.

11.50 Sand hill 10 ft. high.

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 5 | S 4

1916

Dig pits 18 x 18 x 12 ins. N.and S. of post 3 ft. dist.

96.45 Intersect N. bdy. of the Tp. 85 lks. S.89° 52' E.of cor. of secs. 32 and 33. heretofore described:

Set an iron post, 3 ft. long 2 ins, in dia., 24 ins. in the ground for closing cor. of secs. 4 and 5 , with brass cap marked

T 12 S R 17 W
S 33

S 5 | S 4
T 13 S R 17 W
C C
1916

Dig pits 24 x 18 x 12 ins. crosswise on each line, E. and W. 3 ft. and S. of post 7 ft. dist.

Good sandy loam, 12 to 20 ins. deep, medium texture, dry, on clay and sand subsoil.

No timber. Undergrowth shadscale.

From the cor. of secs.5, 6, 31 and 32,on S.bdy.of Tp. N.0°03'W., bet. secs. 31 and 32.

Descend over low rolling foot hills limestone formation

Subdivision of T. 13 S., R. 17 W.

Chains.	
	through small shadscale undergrowth.
7.20	Swale, 2.00 chs. wide 14 ft. deep, drains NW.
11.00	Point of spur, 15 ft. above swale, projects NW.
35.00	Leave foot hills enter gently rolling bench land bears NE. and SW.
38.50	Wash, 25 lks. wide 7 ft. deep, drains NW.
44.00	Wood road bears N.50°E. and S.50°W
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 31 | S 32 1916 Raise a mound of stone 2 ft. base 1½ ft. high W. of cor.
53.50	Wash, 20 lks. wide, 5 ft. deep, drains NW.
65.00	Wash, 15 lks. wide 6 ft. deep, drains N.40°W.
74.00	Wash, 14 lks. wide, 4 ft. deep, drains NW.
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 and 32, with brass cap marked T 13 S R 17 W S 30 | S 29 S 31 | S 32 1916 Raise a mound of stone 2 ft. base 1½ ft. high W. of cor.
	E. 25.00 chs. rolling foot hills, limestone formation.
	N. 55.00 chs. gently rolling bench land sloping NW.
	Poor stony sandy soil, 5 to 15 ins. deep, coarse texture dry, on gravel and stone base.
	No timber. Undergrowth shadscale.

	East on a random line bet. secs. 29 and 32.
40.00	Set temp. ¼ sec. cor.
80.10	Intersect N. and S. line 2 lks. N. of cor. of secs. 28, 29, 32 and 33.
	Thence
	N.89°59'W., on a true line bet. secs. 29 and 32.

Subdivision of T. 13 S., R. 17 W.

Chains.	
	Over gently rolling bench land, stony, through shadscale undergrowth.
5.00	Wood road bears N.40°W., and S.40°E.
35.00	Wood road bears N.60°W., and S.60°E.
40.05	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked S . 29 ¼ . S 32 1916
	Raise a mound of stone 2 ft. base 1½ ft. high N. of cor.
44.60	Wash, 20 lks. wide 3 ft. deep, drains N.50°W.
67.50	Wood road bears N.20°W. and S.20°E.
71.80	Wash, 15 lks. wide 4 ft. deep, drains NW.
80.10	The cor. of secs. 29, 30, 31 and 32.
	Land gently rolling bench sloping NW.
	Coarse, stony, gravelly soil, 4 to 20 ins. deep, dry, on stone and gravel base.
	No timber. Undergrowth shadscale.

	West, on a true line bet. secs. 30 and 31.
	Descend over gently rolling bench land through shadscale undergrowth.
1.90	Wash, 10 lks. wide 2 ft. deep, drains NW.
9.00	Wash, 6 lks. wide 2 ft. deep, drains NW.
21.30	Wash, 12 lks. wide 3 ft. deep, drains NW.
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 S 30 ¼ S 31 1916
	Raise a mound of stone 2 ft. base 1½ ft. high N. of cor.
47.00	Wash, 12 lks. wide 2 ft. deep, drains NW.
49.00	Wood road bears N.10°W., and S.10°E.
65.00	Leave bench descend bears N. and S.

Subdivision of T. 13 S., R. 17 W.

Chains	
70.00	Wash 15 lks. wide 3 ft. deep, drains N.20°W.
84.54	Intersect W. bdy of the Tp., 3.38 chs. S.1°36'E., of the cor. of secs. 25 and 36, heretofore described.
	Set an iron post, 3 ft.long 2 ins. in dia., 24 ins. in the ground for closing cor. of secs.30 and 31, with brass cap marked

T 13 S
S 30 | CC
S 31
R 17 W

1916

Dig pits 24 x 18 x 12 ins. crosswise on each line N.and S.3 ft.and E.of post, 7 ft., dist.

Land gently rolling bench sloping NW.

Poor sandy loam, with some gravel and stones, 12 to 14 ins. deep, medium texture, dry, on clay and gravel subsoil.

No timber. Undergrowth shadscale.

N.0°03'W., bet. secs. 29 and 30.

Descend over gently rolling bench land through shadscale undergrowth.

9.00	Wash, 10 lks. wide 2 ft. deep, drains N.40°W.
36.30	Wood road bears N.40°W. and S.40°E.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 36 ins. in the ground for ¼ sec. cor., with brass cap marked

S 30 | ¼ | S 29
1916

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

80.00	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 13 S. R 17 W.
S 19 | S 20
S 30 | S 29

1916

Subdivision of T. 13 S., R. 17 W.

Chains.	
	Raise a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Land gently rolling bench draining N.
	Soil, sandy, with some stones and fine volcanic cinders, 5 to 20 ins. deep, coarse texture, dry, on clay and grave base and subsoil.
	No timber. Undergrowth shadscale.

	S.89°59'E., on a random line bet. secs. 20 and 29.
40.00	Set temp. ¼ sec. cor.
80.06	Intersect the cor. of secs. 20, 21, 28 and 29.
	Thence
	N. 89°59'W., on a true line bet. secs. 20 and 29.
	Over gently rolling bench land, stony, through white sage and shadscale undergrowth.
18.20	Wash, 12 lks.wide 2 ft. deep, drains N.20°W.
20.80	Wash, 14 lks. wide 3 ft. deep, drains N.20°W.
30.30	Wash, 1.50 chs. wide 15 ft. deep, drains N.
40.03	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 20 / S 29 / 1916
	Raise a mound of stone 2 ft. base 1½ ft. high N.of cor.
79.20	Wood road bears N.40°W., and S.40°E.
80.06	The cor. of secs. 19, 20, 29 and 30.
	Land gently rolling bench draining N.
	Poor stony, sandy soil, 5 to 15 ins. deep, coarse texture dry, with some gravel, on clay subsoil.
	No timber, Undergrowth shadscale and white sage.

	West, on a true line bet. secs. 19 and 30
	Over bench land through shadscale undergrowth.
8.20	Wash, 12 lks. wide 2 ft. deep, drains N.
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

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Subdivision of T. 13 S., R. 17 W.

Chains.

S 19
¼ ———
S 30

1916

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

59.00 Two wood roads one bears N.10°W. and S.10°E. the other N.45°W., and S.45°E.

82.00 Leave bench descend gently bears N.20°W. and S.20°E.

86.86 Intersect W., bdy. of the Tp., 6.90 chs. S.0°46'E., 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 13 S
S 19
——— CC
S 30
R 17 W

1916

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

Land gently rolling bench draining N.

Light sandy soil, 4 to 15 ins. deep, medium texture, dry, with some gravel and stones on clay and gravel subsoil.

No timber. Undergrowth shadscale.

N.0°03'W., bet. secs. 19 and 20.

Over nearly level bench land through shadscale undergrowth.

1.10 Wood road bears N.45°W., and S.45°E.

2.00 Enter scattering white sage undergrowth bears E.& W.

12.00 Leave shadscale and white sage undergrowth enter dry lake bears E, and W.

26.00 Wood road bears N.80°W. and S.80°E.

37.00 Leave dry lake enter white sage and shadscale undergrowth. bears E, and W.

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

Chains.	
	the ground for ¼ sec. cor., with brass cap marked ½ S 19 | S 20 1916
	Raise a mound of stone 2 ft. base 1½ ft. high W. of cor.
44.70	Leave bench descend 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 13 S R 17 W S 18 | S 17 S 19 | S 20 1916
	Raise a mound of stone 3 ft. base 2 ft. high W. of cor.
	Land gently rolling bench draining N.
	Good sandy soil, with some gravel and stones, 12 to 14 ins deep, medium texture, dry. on clay subsoil.
	No timber, Undergrowth shadscale and white sage.
	This cor. is 110 ft. below bench.
	S.89°59'E., on a random line bet. secs. 17 and 20.
40.00	Set temp. ¼ sec. cor.
80.09	Intersect N. and S. line 14 lks. S. of cor. of secs.16, 17, 20 and 21.
	Thence
	S.89°55'W., on a true line bet. secs. 17 and 20.
	Over gentle N. slope through shadscale and white sage undergrowth.
14.00	Wash, 20 lks. wide 4 ft. deep, drains N.
24.00	Wash, 25 lks. wide 4 ft. deep, drains N.
40.04½	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked S 17 ¼ | S 20 1916
	Raise a mound of stone 2 ft. base 1½ ft. high N. of cor.

Chains

Wash, 25 lks. wide 6 ft. deep, drains N.

Wash, 30 lks. wide 5 ft. deep, drains N.10°W.

The cor. of secs., 17, 18, 19 and 20.

Land gently rolling N. slope of bench.

Good sandy loam, 7 to 20 ins. deep, fine texture, dry, with some stone and gravel, on clay subsoil.

No timber. Undergrowth shadscale and white sage.

West on a true line bet. secs. 18 and 19.

Over gently rolling N. slope of bench, through white sage and shadscale undergrowth.

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

S 18

¼ ———

S 19

1916

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

48.40 Wood road bears N.60°W., and S.60°E.

89.21 Intersect W. bdy. of the Tp., 10.10 chs. S.1°40'E., of the 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 13 S

S 18 | CC | S 19

R 17 W

1916

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

Land gently rolling N. slope of bench.

Sandy soil, 14 to 16 ins. deep, medium texture, dry. on sand and clay subsoil.

No timber. Undergrowth shadscale and white sage.

N.0°03'W., bet secs. 17 and 18.

Subdivision of T. 13 S., R. 17 W.

Chains.	
	Descend gently over rolling land through shadscale and white sage undergrowth.
30.00	Enter bottoms and greasewood undergrowth bears N.80°E; and S.80°W: leave shadscale and white sage .
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 18 | S 17 1916
	Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.
56.50	Wash, 10 lks. wide 4 ft., deep, drains N.60°E.
80.00	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 13 S R 17 W S 7 | S 8 S 18 | S 17 1916
	Raise a mound of stone 2 ft. base 1½ ft. high W. of cor. S. 30.00 chs. gently rolling slope of bench good sandy soil, 5 to 14 ins. deep, medium texture, dry on clay subsoil; N. 50.00 chs. fine clay soil, 16 to 18 ins. deep, fine texture, dry on clay subsoil. drains NE. No timber. Undergrowth shadscale, white sage and greasewood.
	N.89°55'E., on a random line bet. secs. 8 and 17.
40.00	Set temp. ¼ sec. cor.
80.10	Intersect N. and S. line 2 lks. S. of cor. of secs. 8, 9, 16 and 17.,
	Thence
	S.89°54'W., on a true line bet. secs., 8 and 17.
	Over nearly level valley bottom land through shadscale undergrowth.
25.00	Leave shadscale enter greasewood undergrowth bears NE.

Subdivision of T. 13 S., R. 17 W.

Chains.	
	and SW.
30.00	Wash, 14 lks. wide 5 ft. deep, drains N.40°E.
40.05	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked S 8 ¼ —— S 17 1916
	Raise a mound of stone 2 ft. base 1½ ft, high N.of cor.
55.90	Sandy point 15 ft. high projects S.
80.10	The cor. of secs. 7, 8, 17 and 18.
	Land low valley. clay loam 12 to 14 ins. deep, fine texture, dry. on clay subsoil.
	No timber. Undergrowth shadscale and greasewood.

	West, on a true line bet. secs. 7 and 18.
	Over nearly level clay bottoms through greasewood undergrowth.
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 S 7 ¼ —— S 18 1916
	Dig pits 18 x 18 x 12 ins. E and W. of post 3 ft. dist.
53.50	Wire fence bears N.10°30°E., and S.10°30'W.,
80.00	Enter alfalfa field bears N. and S. owned by W. A. Shellenberger.
92.82	Intersect W. bdy. of the Tp., 12.54 chs. S.2°43'E., of cor. of secs. 12 and 13. heretofore described.
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 7 and 18, with brass cap marked T 13 S S 7 C C S 18 R 17 W 1916

Subdivision of T. 13 S., R. 17 W.

Chains.

Dig pits 24 x 18 x 12 ins. crosswise on each line N. and S. 3 ft. and E. of post 7 ft. dist.,
Land clay bottoms, fine texture, dry, on clay subsoil.
No timber. Undergrowth greasewood.

---7---

N.0°03'W., bet. secs. 7 and 8.
Over clay bottoms through greasewood undergrowth.

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 7 | S 8

1916

Dig pits 18 x 18 x 12 ins N. and S. of post 3 ft. dist.

41.00 Leave greasewood enter shadscale undergrowth bears N.80°E., and S.80°W., and ascend gently.

58.90 Road Troutcreek to Fish Springs bears N.80°E., and S.80°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 13 S R 17 W

S 6 | S 5

S 7 | S 8

1916

Dig pits 18 x 18 x 12 ins, in each sec. 5½ ft. dist.
Land nearly level clay bottoms.
Soil clay, fine texture, dry, on clay subsoil.
No timber. Undergrowth shadscale and greasewood.

N.89°54'E., on a random line bet. secs. 5 and 8.

40.00 Set temp. ¼ sec. cor.

80.09 Intersect N. and S. line 2 lks. N. of cor. of secs. 4, 5, 8 and 9.

Thence
S.89°55'W., on a true line bet. secs. 5 and 8.
Ascend gently over rolling land through shadscale undergrowth.

Subdivision of T. 13 S., R. 17 W.

Chains.	
7.20	Road Troutcreek to Fish Springs bears N.40°E. and S.40°W.
40.04½	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked S .5 ¼ —— S 8 1916
	Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.
	This ¼ sec. cor. is 115 ft. above sec. cor.
45.00	Sand ridge,10 ft. above ¼ sec. cor. bears N. and S.
80.09	The cor. of secs., 5, 6, 7 and 8.
	Land rolling valley.
	Good sand and clay soil, 14 to 20 ins. deep, medium texture, dry. on clay and sand subsoil,
	No timber. Undergrowth shadscale.

	West, on a true line bet. secs., 6 and 7.
	Over gently rolling valley land through shadscale.
34.00	Clay bank 2 ft. high bears N.20°W., and S.20°E.
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 S 6 ¼ —— S 7 1916
	Raise a mound of stone 2 ft. base 1½ ft. high N. of cor.
76.50	Road Troutcreek to Callao, Utah. bears N.10°E., and S.10°W.
94.62	Intersect W. bdy. of the Tp., 14.02 chs. S.1°13'E., of the cor. of secs. 1 and 12, heretofore described.
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 6 and 7, with brass cap marked T 13 S S 6 ——— CC S 7 R 17 W 1916

Subdivision of T. 13 S., R. 17 W.

Chains.

Raise a mound of stone 3 ft. base 2 ft, high E. of cor.
Land gently rolling sloping SE.
Poor sandy soil, 12 to 16 ins. deep, medium texture, dry on clay and sand, subsoil.
No timber. Undergrowth shadscale.

N.0°03'W., on a true line bet. secs. 5 and 6.
Ascend gently over rolling valley land through shadscale undergrowth.

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 6 | S 5

1916

Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.

80.00 Top of gentle ascent 100 ft. above ¼ sec. cor. bears N.80°W., and S.80°E.,

96.59 Intersect N. bdy. of the Tp. 1.17 chs. S.89°54'E., of the cor. of secs., 31 and 32. heretofore described.
Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs., 5 and 6, with brass cap marked

T 12 S R 17 W

S 32

S 6 | S 5

T 13 S R 17 W

C C

1916

Dig pits 24 x 18 x 12 ins. crosswise on each line E. and W. 3 ft. and S. of post 7 ft. dist.
Land gently rolling sloping S.
Good sandy loam, 5 to 20 ins. deep, medium texture, dry, on sand and clay subsoil.
No timber. Undergrowth shadscale.

Boundaries of T. 13., R.17 W.

Latitudes, departures, and closing errors.

Line designated.	Bearing.	Dist.	Latitudes. N.	Latitudes. S.	Departures. E.	Departures. W.
		Chs.	Chs.	Chs.	Chs.	Chs.
S.bdy.T13S.R17W....	West.....	483.00	.....	.....	.....	483.00.
Willow Springs Guide Meridian....	N.0°30'W..	41.21	41.21	.....	.....	.46
	N.1°36'W..	42.13	42.11	.....	.....	1.18
	N.2°24'W..	41.99	41.95	.....	.....	1.76
	N.0°46'W..	41.55	41.55	.....	.....	.56
	N.1°45'W..	41.68	41.66	.....	.....	1.27
	N.1°40'W..	41.51	41.49	.....	.....	1.21
	N.5°45'W..	42.47	42.38	.....	.....	3.91
	N.1°09'W..	40.38	40.37	.....	.....	.21
	N.1°13'W..	41.06	41.05	.....	.....	.37
	N.0°17'W..	41.18	41.16	.....	.20	.....
	N.0°14'W..	41.43	41.43	.....	.17	.....
W.bdy.T13S.R17W...	S.89°04'E.	173.75	.....	.30	173.75	.....
	S.89°56'E.	40.16	.....	.09	40.16	.....
	S.89°55'E.	40.14	.....	.05	40.14	.....
	S.89°52'E.	40.08	.....	.09	40.08	.....
	S.89°54'E.	40.12	.....	.07	40.12	.....
	S.89°51'E.	40.12	.....	.11	40.12	.....
	S.89°53'E.	40.13	.....	.06	40.13	.....
	S.89°56'E.	40.22	.....	.09	40.22	.....
N.bdy.T13S.R17W	South....	495.46	.....	495.46	.....	.....
Convergency.....	.....	.....	.....	.....	.68	.....
			496.36	496.34	495.71	495.03
			496.34		495.03	
			.02		.68	

General Description.

This township is in general rolling valley.

The soil in the northern two thirds of the township is good sandy loam which will produce medium crops with the aid of irrigation, there is no available water for irrigation.

The southern one third of the township is gently rolling bench land , soil, is light and sandy with some stones and light volcanic cinders not capable of producing crops of any sort without irrigation and from the present indications there cannot be any water supplied for this land.

There is no timber in the entire township.

The only water found in the township is in two wells in sec. 4.

There are no surface indications of mineral.

There is a small scattered growth of shadscale and white sage and some greasewood undergrowth on the greater portion of this township which furnishes good winter pasture for sheep.

W.A.Shellenberger is cultivating about 40 acres of land in the SW. cor. of secs 7 and in NW. cor. of sec. 18. which is being irrigated from flood waters from Trout Creek,.....

W.A.Shellenberger's improvements consist of sheds, fences corrals, and a house, estimated value $2,000.00.

S.P.Jensen has improvements in sec. 4 consisting of a house, corral and a well, estimated value $500.00. and has plowed about 40.00 acres of land in sec. 3.

During some wet seasons some flood water is caught in a small reservoir in SE. part of sec. 4.

John W. Dorigall
U.S. Surveyor.

Water locations in T.13 S.R.17 W.

The only water found was in the wells in NE¼ of Sec. 4, at about 50 ft.

4—680

BOOK A-432

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

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.	
Elliot Bird	August,1,1916	Aug.16,1916	Chainman.
Lloyd H. Terry	Aug. 1, 1916	Aug.16, 1916	Chainman .
Leon W.Harrison	Aug. 1, 1916	Aug.16,1916	Axman.
Lacell Bird,	Aug. 1,1916	Aug. 16,1916	Flagman.
The above is a list of the assistants employed and who assisted in making the foregoing survey and resurvey of The Willow Spring Guide Meridian through T.13 S., bet. Rs. 17 and 18 W. , of S. bdy. of T.12 S., R. 13 W. , and survey of E. and S. bdy. and the subdivision of T. 13 S., R. 17 W., Salt Lake Base and Meridian.			

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 . Dougall, U. S. Surveyor, do ~~solemnly swear~~ certify on honor that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the 17th. day of February, 1916, 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~~ resurveyed all those parts or portions of the Willow Springs Guide Meridian, through T.13 S., bet. Rs. 17 and 18 W. resurveyed South boundary of T. 12 S., R. 17 W. surveyed South and East boundaries and the subdivisions of T.13 S., R. 17 W. of the Salt Lake Meridian, in the State of Utah, which are represented on dates shown on said diagram on page 1 of the foregoing field notes, as having been executed by me, and under my direction, and I do further ~~solemnly swear~~ certify on honor 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.

Dated April 4, 1917.

John W. Dougall
U. S. Surveyor.

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Jan. 17, 1918.

The foregoing field notes of the ~~survey of~~ resurvey of the Willow Springs Guide Meridian, through Township No.13 South, between Ranges Nos.17 and 18 West; resurvey of the south boundary, Township No. 12 South, Range No. 17 West; and the survey of the south and east boundaries and subdivision of Township No.13 South, Range No. 17 West of the Salt Lake Base and Meridian, Utah,

executed by John W.Dougall under his special instructions dated February 17, 1916, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the survey they describe, are hereby approved.

U. S. Surveyor General.

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

U. S. Surveyor General.

4—679

U. S. Surveyor General's Office
MAR 20 1917
SALT LAKE CITY, UTAH.

BOOK A-432

A.

FIELD NOTES

OF THE ~~SURVEY OF THE~~

RETRACEMENT OF THE SOUTH BOUNDARY

RETRACEMENT AND SURVEY OF THE NORTH BOUNDARY

AND SURVEY OF THE

EAST AND WEST BOUNDARIES AND SUBDIVISION

OF

T. 18 S., R. 6 E.

Of the SALT LAKE BASE AND *Meridian,*

the State of UTAH

EXECUTED BY

Howard W. Miller, U. S. Surveyor

and

Lyman E. Bolinger, U.S.Transitman

~~*the capacity of U. S. Surveyor*~~ ..., *under instructions dated* March 30 *, 1916,*

sued by the United States Surveyor General to govern surveys included in

roup No. 56 *, which were approved by the Commissioner of the General Land*

ffice, April 19 *, 1916.*

ssignment instructions dated September 8,1916.

Survey commenced September 27 *, 1916*

Survey completed November 25 *, 1916*

6—151

Book A 482

Names and positions of assistants

Carl Ray	chainman
William Fredricksen	chainman
Edward Nelson	chainman
Edward Jones	chainman
Harry Fox	cornerman
Frank Romney	cornerman
Hyrum Danielson	flagman
Floyd Gardner	flagman

Examinations Classified

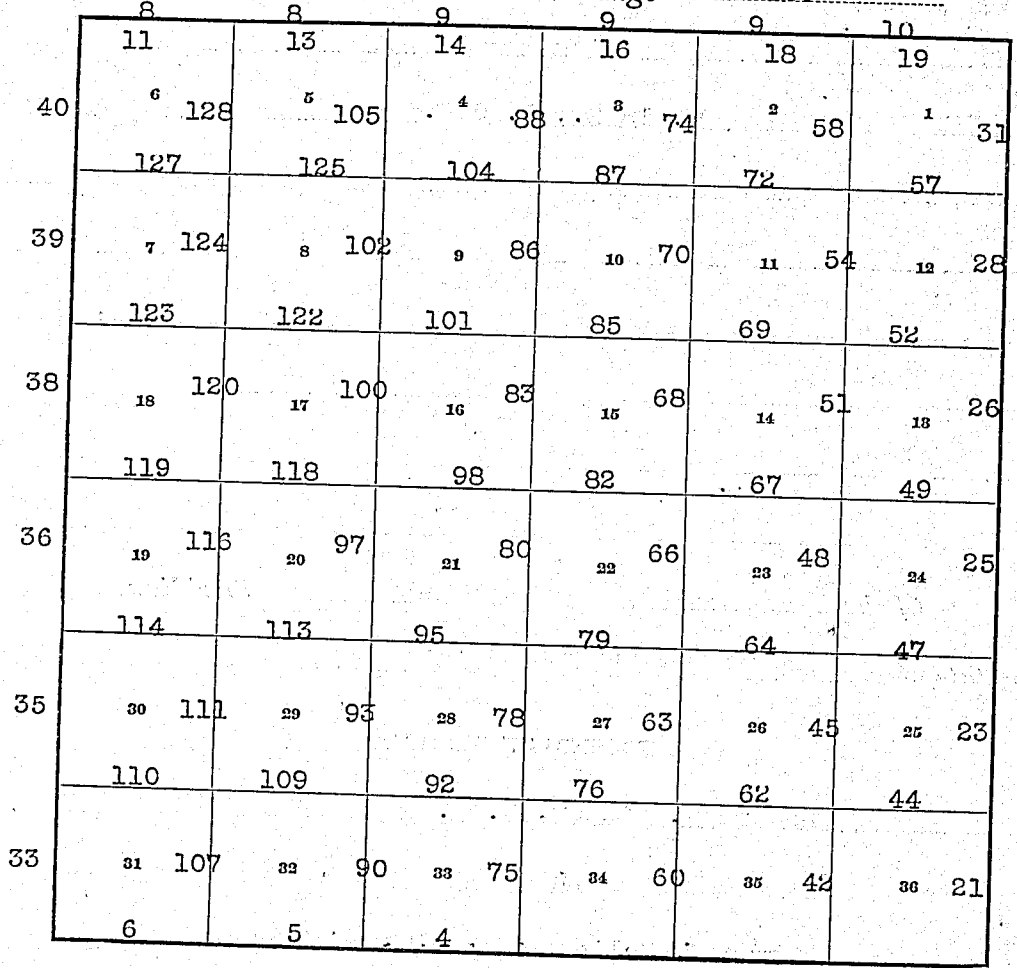
A Plat F.B.J. Notes N.F.B. V.I.F.

B Computations F.B.J. Comparing

C Plat V.I.F. Notes K.F.B.

INDEX DIAGRAM.

Township 18 south, Range 6 east.



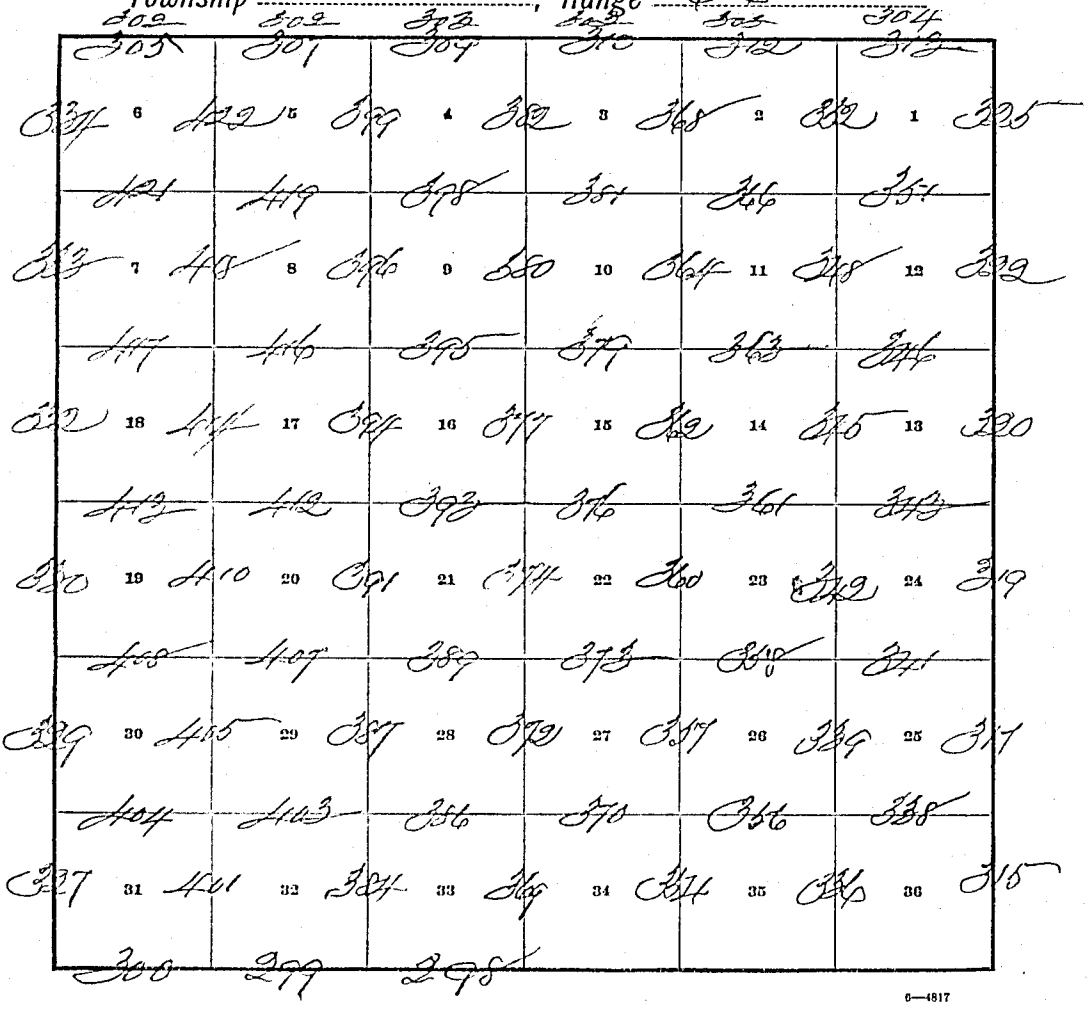
6—151

BOOK A-432

4—679 b

INDEX DIAGRAM.

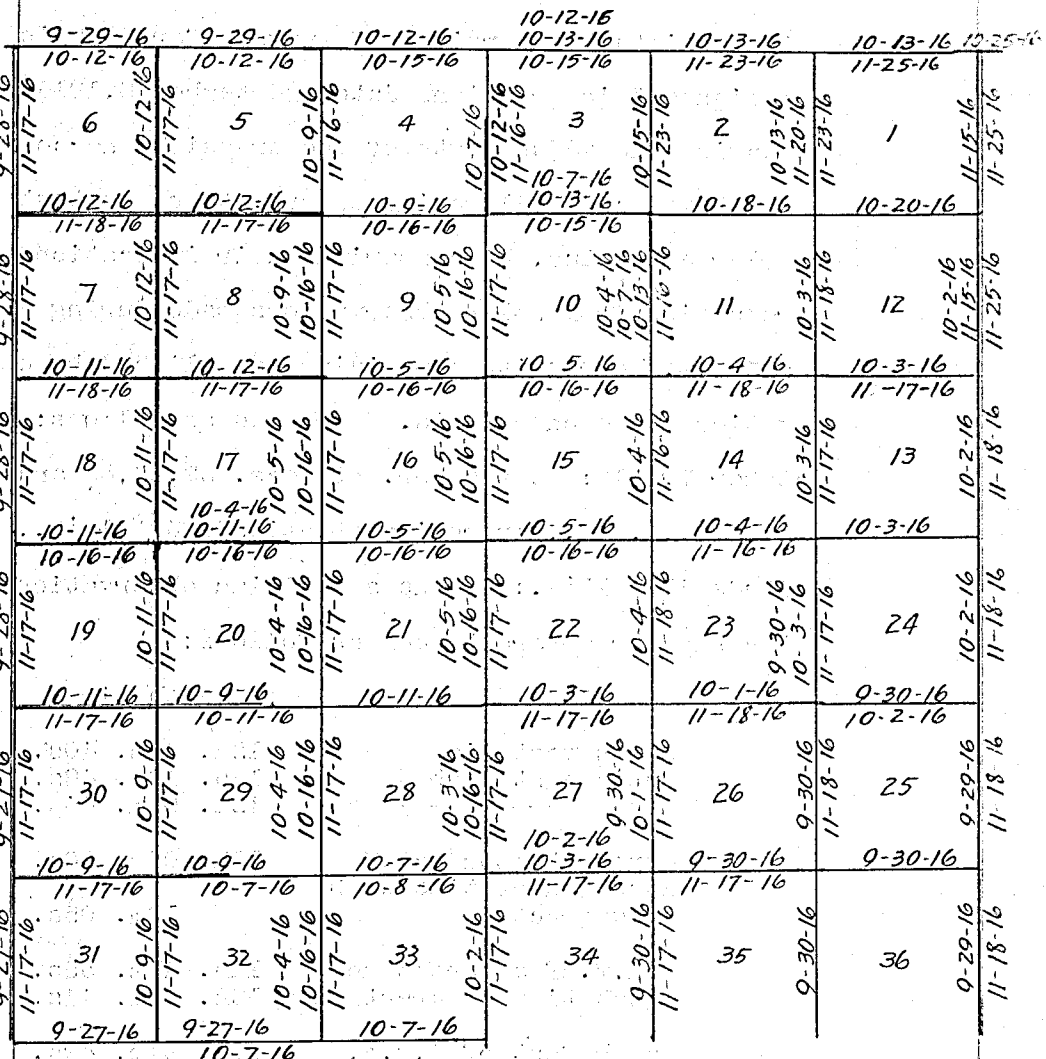
Township 18 S, Range 6 E



6—4817

Retracement of the South boundary of T.18 S.,R.6 E.

Date diagram, T.18 S.,R.6 E.



Lines colored and dated in black ink were surveyed by Howard W. Miller, U. S. Surveyor.

Lines colored and dated in red ink were surveyed by Lyman E. Bolinger, U. S. Transitman.

Survey commenced September 27,1916 and executed with Young and Sons light mountain transits Nos. 8295 and 8584,equipped with Smith's solar attachments and full vertical circles. The horizontal limbs 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

chains

and declination arcs and full vertical circle.

The instruments were approved for use in this survey by the assistant supervisor of surveys for Utah in assignment instructions dated September 8,1916.

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

October 7,1916: At the cor. of secs. 27,28,33 and 34, T.18 S.,R.6 E., approximate latitude 39° 13'N., longitude 111° 18'W.; I make a meridian observation of the sun for apparent noon as follows:

	Watch time.
Sun's west limb	12h. 08m. 40s.
Sun's east limb	12h. 10m. 48s.
Mean ----------	12h. 09m. 44s.
Apparent noon Oct.7	12h. 00m. 00s.
Equation of time to be subtracted	12m. 05s.
L.M.T.of apparent noon	11h. 47m. 55s.
Watch time apparent noon	12h. 09m. 44s.
Watch fast of l.m.t.	00h. 21m. 49s.

At my camp which is situated near the center of sec. 17, T.18 S.,R.6 E., approximate latitude 39°15'N., longitude 111° 18'W; at 5h. 51m.10s. p.m. by my watch I begin to make an hour angle observation on Polaris, using as a reference point a tree about ¾ mile distant.

	Tree	Star	Time
Telescope direct			
	0°00'00"	64° 24' 00"	5h. 51m. 10s.
	0°00'00"	64° 24' 00"	5h. 52m. 45s.
Telescope reversed			
	0°00' 00"	64° 24' 00"	5h. 53m. 40s.
	0°00'00"	64° 24' 00"	5h. 55m. 05s.
Mean	0°00'00"	64° 24' 00"	5h. 53m. 10s.
Watch fast of l.m.t., ----------			0h. 21m. 49s.
L.mt. of obsn. Oct. 7,1916			5h. 31m. 21s.

Retracement of the South boundary of T.18 S.,R.6 E.

chains

U.C.Pol. October 8,1916 ---------- 0h. 25m. 48s. a.m.
Corrected for long. 111°18'W., 1m. 12s.
U.C.Pol. at station October 8,1916 0h. 24m. 36s. a.m.

Hour angle of Pol. at obsn. 6h. 53m. 15s.

East azimuth of Pol. at obsn. 1° 26'
Add ---------- 64° 24'
Tree bears ---------- N. 65° 50' E.

October 7,1916.

Transit No. 8295.

October 8: At 8h. a.m. apparent time, I set off 39°15' on the lat. arc; 5° 52'S., on the decl. arc; and determine a meridian with solar and find that the tree bears N.65° 49'E.

With the instrument in the true meridian I set off 39° 15' on the lat. arc; and at apparent noon obs. the sun on the meridian; the resulting declination is 5° 58'S.

At 3h. 30m.p.m. apparent time, I set off 39°15' on the lat. arc; 6° 01'S., on the decl. arc; and determine a meridian with the solar and find that the tree bears N.65° 50'E.

Transit No. 8584.

Oct. 8, At 8h.a.m. apparent time, I set off 39°15' on the lat. arc; 5° 52'S., on the decl. arc; and determine a meridian with the solar and find that the tree bears N.65°50'E.

With the instrument in the meridian; I set off 39°15' on the lat. arc; and at apparent noon obs. the sun on the meridian; the resulting declination is 5° 58'S.

At 3h.p.m. apparent time, I set off 39° 15' on the lat. arc; 6°01'S., on the decl. arc; and determine a meridian with the solar and find that the tree bears N.65°50'E.

The instruments by a.m. and p.m. solar observations define positions for meridians that do not differ more than 1' from the meridian established by observations on Polaris, I therefore conclude that they are in good adjustment.

chains	
	The magnetic bearing of the true meridian at 10 h. a.m. is N.16° 35'W., the angle thus determined gives the magnetic decl. 16° 35'E.
	October 8,1916.
	The instruments were kept in good adjustment during the progress of the survey by frequently testing them on meridians established by observations on Polaris.
	Measurements
	Steel tapes, 5 chs. long, together with clinometers for determining slope angles were used by both parties in the field. The tapes were tested, comparison being made with a standard tape, 1 ch. long, kept and used for that purpose only.
	I begin at the cor. of secs. 3,4,33 and 34 on the S. bdy. of the Tp. which is an iron post, 3 ins. in diam., extending 12 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	Thence
	N.89°58'W., retracing bet. secs. 4 and 33.
	Over rough mountainous land through dense cedar and pinon timber and undergrowth of sagebrush and scattering service berry.
	Ascend abruptly over E. slope of ridge.
4.85	Leave dense timber, bears N. and SW.
6.50	Top of high ridge spur , 175 ft. above sec. cor., projects S.20°W.
	Descend abruptly over rough, rocky, broken W. slope.
18.40	Base of steep descent and enter dense timber, bears N. and S. Descend more gradually.

. . . .Retracement of the South boundary of T.18 S.,R.6 E.

chains	
39.75	In dense cedar and pinon timber, 640 ft.below spur. Fall 9 lks. N. of the ¼ sec. cor. which is an iron post, 1 in. in dia., extending 10 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. The bearing of this ½ mile is S.89° 54'W., and the distance is 39.75 chs. From the ¼ sec. cor., I continue N.89° 58'W. Continue descent.
21.90	Begin abrupt descent over W. slope.
33.00	Base of mountain and leave timber, 465 ft. below ¼ sec. cor., bears N. and S. Thence over gently rolling valley through dense undergrowth of sagebrush.
39.88	Fall 3½ lks. S. of the cor. of secs. 4,5,32 and 33, which is an iron post, 3 ins. in dia., extending 12 ins. above ground, firmly set, amd marked and witnessed as described by the surveyor general. The bearing of this ½ mile is N.89° 55'W., and the distance is 39.88 chs. Land, rough mountainous with exception of 6.88 chs. in western portion which is gently rolling. General E. and W. exposure and drainage from high ridge. Soil, gravelly, rocky and moist sticky brown and blue clay on rocky sub-soil. Sandstone formation. Timber, cedar and pinon. Undergrowth, sagebrush, buck brush and service berry. Scattering grass, suitable for grazing.

	N.89° 58'W., retracing bet. secs. 5 and 32. Over gently rolling land at head of Lower Joe's valley, through dense undergrowth of sagebrush.
34.60	Wash, 30 lks. wide, 4 ft. deep, drains N. Gradually ascend.

Retracement of the South boundary of T.18 S.,R.6 E.

chains	
35.40	Old road, bears N.30°W. and S.30°E.
39.98	Fall 1/4 lks. N. of the 1/4 sec. cor., which is an iron post, 1 in. in dia., firmly set 14 ins. in the ground and 10 ins. in a mound of stone, and marked and witnessed as described by the surveyor general.
	The bearing of this 1/2 mile is S.89°59'W., and the distance is 39.98 chs.
	From 1/4 sec. cor.,
	N.89°58'W.
8.85	Begin abrupt ascent over broken E. slope from valley, bears N. and S.
16.00	Enter cedar and pinon timber with service berry and buck brush undergrowth, bears N. and S.
23.15	Top of steep ascent, 370 ft. above 1/4 sec. cor., bears N. and S.
	Thence over rolling bench land.
31.00	Thence along brink of steep N. slope.
40.10	Fall 2 lks. N. of the cor. of secs. 5,6,31 and 32 which is an iron post, 3 ins. in dia., extending 12 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	The bearing of this 1/2 mile is west and the distance is 40.10 chs.
	Land, E. 48.83 chs. rolling valley, slopes and drains N. Remainder of mile mountainous, NE. exposure and drainage.
	Soil, E.1/2 , rich sandy clay loam on sandy sub-soil. W.1/2 mile, shallow sandy loam mixed with gravel and rock on hard, dry sand and rock sub-soil.
	Timber, scattering cedar and pinon on W. portion of mile.
	Undergrowth, sagebrush, service berry and buck brush.
	Considerable grass, good for grazing.

	N.89°58'W., retracing bet. secs. 6 and 31
	Over broken mountainous land along brink of steep N. slope, through scrub cedar and pinon timber and

Retracement of the South boundary of T.18 S.,R.6 E.

chains	
	undergrowth of sage and buck brush.
4.60	Leave timber, bears NE. and SW. Gradually descend over NW. slope through dense sagebrush.
9.50	Draw, heads about 1 ch. S. of line at low saddle and drains N. about 3 chs. to ravine draining E.
	Gradually ascend over broken E. slope.
39.96	325 ft. above draw.
	Fall 2 lks. N. of the ½ sec. cor., which is an iron post, 1 in. in dia., extending 16 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	The bearing of this ½ mile is west and the distance is 39.96 chs.
	From point 2 lks. N. of ½ sec. cor., continue N.89°58'W.
52.60	Begin abrupt ascent.
70.30	Enter dense aspen timber and some scattering fir, bears N. and S.
72.60	Top of steep ascent and edge of bench, 465 ft. above ¼ sec. cor., bears N. and S. Leave timber and enter dense sagebrush, bears N. and S.
	Gradually ascend.
78.58	Fall 4 lks. N. of the cor. of Tps. 18 and 19 S., Rs.5 and 6 E. which is an iron post; extending 12 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	The bearing of this ½ mile is west and the distance is 38.62 chs.
	Land, mountainous, general NE. exposure and drainage.
	Soil, gray and brown sandy loam, mixed with gravel and rock on hard, dry sand and rock sub-soil.
	Timber, cedar, pinon, aspen and fir
	Undergrowth, sagebrush, scattering service berry and buck brush.
	Good grass, suitable for grazing.

Retracement and survey of the N. bdy. of T.18 S.,R.6 E.

chains	
	From the cor. of Tps. 17 and 18 S., Rs. 5 and 6 E. which is a gray sandstone, 12 x 10 x 5 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general
	East, retracing bet. secs. 6 and 31
66.98	Fall 27 lks. S. of the ¼ sec. cor. which is a gray sandstone, 8 x 8 x 6 ins. above ground, firmly set and marked and witnessed as described by the surveyor general.
	The bearing of this ½ mile is N.89° 46'E., and the distance is 66.98 chs.
	From point 27 lks. S. of ¼ sec. cor., continue
	East
107.03	Fall 30 lks. S. of the cor. of secs. 5,6,31 and 32 which is a blue limestone, 8 x 6 x 6 ins. above ground, firmly set and marked and witnessed as described by the surveyor general.
	The bearing of this ½ mile is N.89° 57'E., and the distance is 40.05 chs.

	From the cor. of secs. 5,6,31 and 32.
	East, retracing bet. secs. 5 and 32
39.95	Fall 6 lks. S. of the ¼ sec. cor. which is a limestone, 8 x 7 x 7 ins. above ground, firmly set and marked and witnessed as described by the surveyor general.
	The bearing of this ½ mile is N.89° 55'E., and the distance is 39.95 chs.
	From point 6 lks. S. of the ¼ sec. cor., continue
	East
79.74	Fall 3 lks. S. of the cor. of secs. 4,5,32 and 33, which is a sandstone, 12 x 12 x 6 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	The bearing of this ½ mile is S.89°57'E., and the distance is 39.79 chs.

Retracement and survey of the N. bdy. of T.18 S.,R.6 E.

chains	
	From the cor. of secs. 4,5,32 and 33
	East, retracing bet. secs. 4 and 33
39.81	Fall 2 lks. S. of the ¼ sec. cor which is a sandstone, 12 x 8 x 10 ins. above ground, firmly set and marked and witnessed as described by the surveyor general.
	The bearing of this ½ mile is N. 89° 58'E., and the distance is 39.81 chs.
	From ¼ sec. cor., continue
	East
79.63	Fall 3½ lks. N. of the cor. of secs. 3,4,33 and 34 which is a sandstone, 8 x 4 x 12 ins. above ground, firmly set, and marked and witness ed as described by the surveyor general.
	The bearing of this ½ mile is S.89°57'E., and the distance is 39.82 chs.

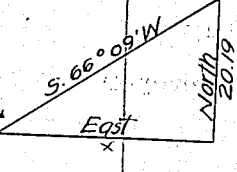
	From cor. of secs. 3,4,33 and 34.
	East, retracing bet. secs. 3 and 34.
39.84	Fall 3 lks. N. of the ¼ sec. cor. which is a sandstone, 11 x 5 x 10 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	The bearing of this ½ mile is S.89° 57'E., and the distance is 39.84 chs.
	From ¼ sec. cor., continue
	East
79.84	Fall 5 lks. S. of the cor. of secs. 2,3,34 and 35 which is a sandstone, 7 x 8 x 11 ins. above ground, firmly set and marked and witnessed as described by the surveyor general
	The bearing of this ½ mile is N.89°56'E., and the distance is 40.00 chs.

	From cor. of secs. 2,3,34 and 35.
	East, retracing bet. secs. 2 and 35.
39.96	Fall 1 lk. N. of the ¼ sec. cor. which is a sandstone,

Retracement and survey of the N. bdy. of T.18 S.,R.6 E.

chains	
	3 x 11 x 11 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	The bearing of this ½ mile is S.89°59'E., and the distance is 39.96 chs.
	From the ¼ sec. cor., I continue
	East
79.89	Fall 2 lks. S. of the cor. of secs. 1,2,35 and 36, which is a sandstone, 8 x 10 x 5 ins. above ground, firmly set and marked and witnessed as described by the surveyor general.
	The bearing of this ½ mile is N.89°58'E., and the distance is 39.93 chs.

	From a point 15 lks. S. of the cor. of secs. 1,2,35 and 36.
	East, retracing bet. secs. 1 and 36.
39.41	Fall 22 lks. N. of the ¼ sec. cor. which is a sandstone 24 x 12 x 5 ins. lying on the ground, marked ¼ on one face. No accessories to cor.
	The bearing of this ½ mile is S.89° 28'E., and the distance is 39.41 chs.
	From point 22 lks. N. of the ¼ sec. cor. continue
	East
44.08	Top of impassable ledge and brink of mountain, down which I cannot chain. To determine distance I triangulat as follows: Being unable to sight east from this point I offset 28 lks. North and set flag. I now set instrument on line in bottom of canyon east of flag and measure a base line north 20.19 chs. to a point whence flag bears S. 66° 09'W. From flag, N. end of base bears N.66°09'E., therefore tan 66°09' x base or 2.26196 x 20.19 gives 45.67 chs. which added to 44.08 chs. gives
89.75	To point of triangulation. I now measure west 10.46 chs. to
79.29	Fall 1.24 chs. N. of the cor. of Tps. 17 and 18 S., R.



Retracement and survey of the N.bdy. of T.18 S.,R.6 E.

chains	
	6 E. which is a red sandstone boulder in place, 10 x 5 x 5 ft. above ground, marked and witnessed as described by the surveyor general.
	The bearing of this ½ mile is S.88° 56'E., and the distance is 39.89 chs.

	Knowing from previous surveys that the cor. of Tps. 17 and 18 S.,Rs. 5 and 6 E. will only refer to T.17 S. Rs.5 and 6 E., I remark cor. stone with 6 notches on N., E. and W. edges, 17S6E on NE. and 5E. on NW. face, also:
	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground alongside old cor. for cor. of T.17 S., Rs. 5 and 6 E., with brass cap marked
	T 17 S R 5 E | R 6 E S 36 | S 31 1916
	from which
	A pinon, 9 ins.diam.,bears N.34°45'E., 57 lks. dist.,marked T 17 S R 6 E S 31 B T
	A pinon, 6 ins.diam.,bears N.22°W., 51 lks. dist.,marked T 17 S R 5 E S 36 B T
	Thence
	N.89°46'E., on true line, S. bdy. sec. 31, T.17 S.,R.6 E.
	Over rough mountainous land through scattering cedar and pinon timber and dense undergrowth of sagebrush and greasewood.
	Descend abruptly over E. slope.
4.40	Descend more gradually.
7.20	Descend abruptly into canyon.
11.50	Enter cottonwood, pine and fir timber, bears N.60°W. and S.60°E.
13.20	Bottom of canyon and Cottonwood creek, 20 lks. wide, 4 ins. deep, clear water, 345 ft. below Tp. cor., course S.60°E.

Retracement and survey of the N.bdy. of T.18 S.,R.6 E.

chains	
	Thence over rolling land across Joe's valley.
	Gradually ascend over SW. slope.
18.70	Leave cottonwood timber, bears N.60°W. and S.60°E.
36.50	Top of spur, 75 ft. above creek, projects S.60°E.
	Gradually descend over nearly E. slope.
42.32	A westing of 40.00 chs. from the closing cor. of secs. 5 and 6, T.18 S.,R.6 E.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. on the N. bdy. of sec. 6, T.18 S.,R.6 E., with brass cap marked
	¼ S 6 1916
	from which
	A pine, 16 ins.diam., bears South, 124 lks. dist., marked ¼ S 6 B T
	A pine, 18 ins.diam.,bears S.38½°W., 191 lks. dist.,marked ¼ S 6 B T
55.40	Leave pine, fir, cedar and pinon timber, bears N. and S. Gradually descend through dense short sagebrush.
66.98	The ¼ sec. cor. This cor. now refers to sec. 31, T.17 S., R.6 E. only.
	Thence
	N.89°57'E., with continuous chaining.
68.00	Pole fence, bears N. and S.
82.32	Position of closing cor. of secs. 5 and 6, T.18 S.,R.6 E.
98.40	Road, Orangville, Utah, to saw mill, bears N. and S.
107.03	The cor. of secs. 5,6,31 and 32. This cor. now refers to secs. 31 and 32, T.17 S.,R.6 E. only. Rebuild accessories as follows:
	Raise a mound of stone, 2 ft.base, 1½ ft. high, N. of cor. Cor. stands 140 ft. below ¼ sec. cor. on the N. bdy. sec. 6.
	Land, west 4.40 chs., rough mountainous, general NE. exposure and drainage. Remainder of mile rolling valley with general SE. exposure and drainage.

Retracement and survey of the N.bdy. of T.18 S.,R.6 E.

chains	
	Soil, shallow gray and brown sandy loam mixed with gravel and limestone rock on hard, dry sand and rock sub-soil.
	Timber, pine, fir, cedar and pinon and cottonwood on W. 55.40 chs.
	Undergrowth, sagebrush and greasewood.
	Considerable grass, good for grazing.

	N.89°55'E.,on true line, S.bdy.sec.32, T.17 S.,R.6 E.
	Over rolling valley through dense undergrowth of short sagebrush.
	Gradually descend.
7.90	Lowry Fork creek, 25 lks. wide, 12 ins. deep, clear water, 15 ft. below sec. cor., course S.
	Ascend abruptly over W. slope of break of mountain.
15.40	U.S.Forest service Telephone line, bears N. and S.
15.45½	Position midway between the closing cor. of secs. 4 and 5 and the closing cor. of secs. 5 and 6, T.18 S.,R.6 E.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. on the N. bdy. of sec. 5, T.18 S.,R.6 E., with brass cap marked
	¼ S 5 1916
	from which
	A cedar, 10 ins.diam.,bears S.38°30'E., 106 lks. dist., marked ¼ S 5 B T
	No other trees available.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor.
	Enter scattering cedar and pinon timber, bears N. and S.
20.70	Base of broken sandstone ledges about 100 ft. high, bears N. and S. Enter pine, fir and dense cedar and pinon timber and undergrowth of service berry and buck brush, bears N. and S.
22.00	Top of ledges, bears N. and S. Continue abrupt ascent.
26.90	Enter dense mahogany undergrowth, bears N. and S.

Retracement and survey of the N.bdy. of T.18 S.,R.6 E.

chains	
39.95	The ½ sec. cor. This cor. now refers to sec. 32, T.17 S R.6 E. only. I deface S. bearing tree and build new accessories as follows:
	Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Cor. stands on W. slope 840 ft. above creek.
	Thence
	S.89°57'E., with continuous chaining.
45.00	Stream, 1 lk. wide, ½ in. deep, course NW.
55.50	Ridge, 230 ft. above ½ sec. cor., bears N.25°E. and S.25°W.
	Gradually descend over S. and SE. slopes.
55.62	Position of the closing cor. of secs. 4 and 5, T.18 S., R.6 E.
56.80	Enter very dense timber, bears N.20°E. and S.20°W.
78.50	Top of sandstone ledge, 15 ft. high, bears N.25°E. and SW.
79.74	The cor. of secs. 4,5,32 and 33. This cor. now refers to secs. 32 and 33, T.17 S.,R.6 E. I mark bearing trees as follows:
	A pinon, 6 ins.diam.,bears N.40½°W., 23½ lks. dist.,marked T 17 S R 6 E S 32 B T
	A pinon limb, 12 ins. diam.,bears N.72°W., 46 lks. dist.,marked T 17 S R 6 E S 32 B T
	Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Land, W. 7.90 chs. rolling valley, remainder of mile rough broken mountains. General drainage S.
	Soil, gravelly and rocky of sandstone formation with some shallow sandy soil on sandy and rocky sub-soil.
	Timber, cedar, pinon, pine and fir.
	Undergrowth, sagebrush,service berry, buck brush and mahogany. Scattering grass, good for grazing.

N.89°58'E., on true line, S.bdy. sec.33, T.17 S.,R.6 E.

Retracement and survey of the N.bdy. of T.18 S.,R.6 E.

chains	
	Over rough mountainous land through cedar and pinon timber and undergrowth of mahogany.
	Descend abruptly over sandstone ledges, 5 to 10 ft. high.
5.90	Bottom of canyon, 140 ft. below sec. cor., course S.
	Ascend abruptly over perpendicular sandstone ledge about 60 ft. high.
6.75	Top of ledges, bears NE. and S. Continue steep ascent over W. slope.
13.30	Ascend more gradually over W. slope.
15.65	Position midway between the closing cor. of secs. 3 and 4 and the closing cor. of secs. 4 and 5, T.18 S.,R.6 E.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. N. bdy. sec. 4, T.18 S., R. 6 E., with brass cap marked
	¼ S 4 1916
	from which
	A pine, 20 ins.diam.,bears S.25°15'E., 60 lks. dist.,marked ¼ S 4 B T
	A pine, 17 ins.diam.,bears S.72°15'W., 39 lks. dist.,marked ¼ S 4 B T
	Cor. stands on gradual W. slope 295 ft. above canyon.
25.60	Top of high spur, 485 ft. above canyon, projects S.
	Thence along broken rocky S. slope.
39.81	The ¼ sec. cor. This cor. now refers to sec. 33, T.17 S., R.6 E. only.
	Thence
	S.89° 57'E., with continuous chaining.
51.10	Spur, 20 ft. above ¼ sec. cor., projects SE.
	Descend abruptly over rough, broken E. slope.
55.42	Position for the closing cor. of secs. 3 and 4, T.18 S., R.6 E.
57.50	Begin precipitous descent into canyon, bears N.20°W. and SE.
63.20	Top of sandstone ledge, 25 ft. high, bears N. and S.

chains

68.85 Bottom of canyon and creek, 2 lks. wide, 2 ins. deep, 510 ft. below spur, course S.20°E.

Ascend abruptly over rough, broken SW. slope over large boulders and series of small sandstone ledges bearing NW. and SE.

79.63 Top of sandstone rim, 255 ft. above canyon, bears NW. and SE.

The cor. of secs. 3,4,33 and 34. This cor. now refers to secs. 33 and 34, T.17 S.,R.6 E. only. I destroy the SE. and SW. bearing trees that pertain to T.18 S.

Land, rough broken mountains with steep E. and W. slopes into canyons draining S.

Soil, rocky of sandstone formation on rocky sub-soil.

Timber, cedar, pinon and a few scattering pine.

Undergrowth, mahogany.

S.89°57'E.,on true line, S.bdy.sec.34, T.17 S.,R.6 E.

Over rough broken mountainous land through dense cedar and pinon timber and undergrowth of mahogany.

Ascend over W. slope.

6.00 Top of spur, 90 ft. above sec. cor., projects S.20°E. about 10 chs. to junction of canyons.

Descend abruptly over SE. slope over sandstone ledges and large boulders.

14.95 Bottom of canyon and stream, 2 lks. wide, 2 ins. deep, 125 ft. below spur, course SW.

Ascend abruptly over NW. slope.

15.81 Position midway bet. the closing cor. of secs. 2 and 3 and the closing cor. of secs. 3 and 4, T.18 S.,R.6 E.

Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground on solid rock and 20 ins. in a mound of stone for ¼ sec. cor. on the N. bdy. of sec. 3, T.18 S. R.6 E., with brass cap marked

¼ S 3
1916

Retracement and survey of the N.bdy. of T.18 S.,R.6 E.

chains	
	from which
	A pine, 8 ins.diam.,bears S.10°E., 42 lks. dist.,marked ¼ S 3 B T
	A pinon, 5 ins.diam.,bears S.42°45'W., 50 lks. dist.,marked ¼ S 3 B T
	Cor stands on steep N. slope, 40 ft. above ravine.
29.00	Small stream in steep rocky ravine, 2 lks. wide, 2 ins. deep, course N.75°W.
	Ascend abruptly over rough, rocky SW. slope.
30.65	Enter scattering service brush, bears N. and S.
33.35	Begin more gradual ascent over nearly S. slope.
39.84	The ¼ sec. cor. This cor. now refers to sec. 34, T.17 S., R.6 E. only. I mark new bearing tree as follows:
	A yellow pine, 50 ins.diam.,bears N.79°E., 154 lks. dist.,marked ¼ S 34 B T
	Cor. stands 445 ft. above canyon at 14.95 chs.
	Thence
	N.89° 56'E., with continuous chaining.
40.70	Same ravine and stream as at 29.00 chs., course S.80°W.
42.45	Same ravine, course N.80°W.
47.35	Same ravine, course S.80°W.
	Ascend over nearly W. slope.
50.55	Enter dense sagebrush undergrowth, bears N. and S.
55.35	Leave timber, bears N.80°E. and SW.
55.83	Position for the closing cor.of secs. 2 and 3, T.18 S., R.6 E.
60.30	Ascend gradually over gentle NW. slope.
79.84	The cor. of secs. 2,3,34 and 35. This cor. now refers to secs. 34 and 35, T.17 S.,R.6 E. only. I change accessories as follows:
	Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Cor. stands 445 ft. above ¼ sec. cor.
	Land, rough, broken mountains, general W. exposure and drainage.

Retracement and survey of the N.bdy. of T.18 S.,R.6 E.

chains	
	Soil, sandy clay loam, mixed with gravel and rock on gravelly and rocky sub-soil.
	Timber, cedar and pinon with a few scattering yellow pi and fir.
	Undergrowth, sagebrush, scattering mahogany and service berry. Considerable grass, good for grazing.
	S.89°59'E.,on true line, S.bdy. sec. 35, T.17 S.,R.6 E. Over mountainous land through dense undergrowth of sage-brush and scattering service berry.
	Gradually ascend.
2.50	Top of ridge, 5 ft. above sec. cor., bears NE. and SW.
	Gradually descend over SE. slope. Cedar and pinon timber N. and S. of line.
16.19½	Position midway bet. the closing cor. of secs. 1 and 2 and the closing cor. of secs. 2 and 3.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. on the N. bdy. of sec. 2, T.18 S.,R.6 E., with brass cap marked
	¼ S 2 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor.
22.85	Begin ascent over broken SW. slope of ridge.
26.75	Enter dense cedar and pinon timber, bears N. and SE.
39.96	The ¼ sec. cor. This cor. now refers to sec. 35, T.17 S., R.6 E. only.
	Cor. stands. 280 ft. above base of steep ascent.
	Thence
	N.89°58'E., with continuous chaining.
43.40	Top of spur, 55 ft. above ¼ sec. cor., projects S.20°W.
	Leave dense timber bears N.20°E. and S.20°W.
	Descend abruptly over SE. slope.
56.40	Position for the closing cor. of secs. 1 and 2, T.18 S., R. 6 E.

Retracement and survey of the N.bdy. of T.18 S.,R.6 E.

chains	
56.70	Begin gradual descent over small bench, bears NE. and SW.
69.20	Enter dense timber and begin steep descent into ravine, bears NE. and SW.
75.90	Bottom of ravine, 345 ft. below spur, drains S.35°W.
	Ascend abruptly over broken SW. and W. slopes.
79.89	The cor. of secs. 1,2,35 and 36, 55 ft. above ravine.
	This cor. now refers to secs. 35 and 36, T.17 S.,R.6 E. only. I destroy marks on SE. and SW. bearing trees that pertain to T.18 S.
	Land, broken mountains with general E. and W. slopes into ravines draining S.
	Soil, sandy clay loam, very rocky and mixed with gravel and loose shales of sandstone formation on hard clay and rock sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush, scattering service berry and some mahogany.
	Considerable grass, good for grazing.

	S.89°28'E., on true line, S.bdy. sec. 36, T.17 S.,R.6 E.
	Over rough mountainous land through dense cedar and pinon and scattering pine and fir timber and undergrowth of sagebrush, scattering service berry and mahogany.
	Ascend abruptly over broken W. slope.
3.80	Begin more gradual ascent.
12.50	Leave timber and mahogany undergrowth, bears NE. and SE.
16.53½	Position midway between the closing cor. of Tp. 18 S., Rs. 6 and 7 E. and the closing cor. of secs. 1 and 2, T.18 S.,R.6 E.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. on the N. bdy. of sec. 1 T.18 S.,R.6 E., with brass cap marked
	¼ S 1 / 1916
	from which

Retracement and survey of the N.bdy. of T.18 S.,R.6 E.

chains

A pinon, 6 ins.diam.,bears S.43°E., 348 lks. dist.,marked 1/4 S 1 B T

A pinon, 10 ins.diam.,bears S.7°W., 318 lks. dist.,marked 1/4 S 1 B T

Cor stands on gentle W. slope, 205 ft. above sec. cor.

23.50 Top of ridge, 105 ft. above 1/4 sec. cor., bears N.20°W. and S.30°E.

Descend abruptly over E. slope.

28.20 Enter dense pine and fir timber, bears N. and S.

32.30 Enter dense mahogany undergrowth, bears N. and S.

39.41 The 1/4 sec. cor. This cor. now refers to sec. 36, T.17 S. R.6 E. only. I reset stone, 18 ins. in a mound of sto and mark bearing trees as follows:

A pine, 12 ins.diam.,bears N.31°45'E., 14 lks. dist.,marked 1/4 S 36 B T

A fir, 12 ins.diam., bears N. 52° W., 34 lks. dist.,marked 1/4 S 36 B T

Thence

S.88° 56'E., with continuous chaining.

44.08 Top of sandstone ledge about 150 ft. high and E. break of mountain, 500 ft. below ridge, bears N.20°W. about 6 chs. thence NE. and S.20°E. Point of triangulation.

Descend abruptly over ledges and boulders 1000 ft. to

79.30 The cor. of Tps. 17 and 18 S., R. 6 E. This cor. now refers to the SE. cor. of T.17 S.,R.6 E. only. I remark boulder for SE. cor. of T.17 S.,R.6 E.

from which

A pinon, 8 ins.diam.,bears N.17°15'W., 39 lks. dist.,marked T 17 S R 6 E S 36 B T

A pinon, 10 ins.diam.,bears N.46°30'W., 98 lks. dist., marked T 17 S.R.6 E S 36 B T

Land, rough mountainous, with steep E. and W. slopes into canyons draining S. E. 1/2 mile exceptionally rough.

Soil, rocky of sandstone formation with some brown clay on rocky sub-soil.

Timber, cedar, pinon, pine and fir.

East boundary of T.18 S.,R.6 E.

chains	
	Undergrowth, sagebrush, scattering service berry and mahogany.
	Considerable grass on W. $\frac{1}{2}$ mile, suitable for grazing.

East boundary of T.18 S.,R.6 E.

chains	
	From the cor. of Tps. 18 and 19 S., R.6 E. which is an iron post, 3 ins. in dia., firmly set in the ground and mound of stone, marked and witnessed as described by the surveyor general.
	North, on E. bdy. sec. 36, T. 18 S., R. 6 E.
	Over mountainous land through s cattering cedar and pinon timber and undergrowth of grass, shadscale, service berry, buck and sagebrush.
	Ascend abruptly over S. slope.
5.39	The closing cor. of Tps. 18 and 19 S., R. 7 E. which is an iron post, 3 ins. in dia., extending 12 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	Leave timber, bears NW. and SE.
9.15	Spur, 95 ft. above Tp. cor., projects SE.
	Gradually descend over N. slope.
10.60	Begin abrupt descent over N. slope.
15.50	Enter dense sagebrush undergrowth, bears E. and W.
20.00	Bottom of ravine and wash, 40 lks. wide, 15 ft. deep, 100 ft. below spur, course SE.
	Ascend abruptly over S. slope.
24.00	Enter scattering scrub cedar and pinon timber, bears NW. and SE.
	Ascend more gradually.
34.50	Low spur, 150 ft. above ravine, projects SE.
	Descend.
37.40	Bottom of small gully and wash, 10 lks. wide, 5 ft. deep, course SE.
	Ascendabruptly over S. slope.

East boundary of T.18 S., R.6 E.

chains	
40.00	85 ft. above gully. Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground on solid rock and 14 ins. in a mound of stone for ¼ sec. cor. on the E. bdy. of sec. 36, T.18 S.,R.6 E., with brass cap marked ¼ S 36 | 1916 from which A cedar, 4 ins.diam.,bears N.40°45'W., 110 lks. dist., marked ¼ S 36 B T A cedar, 16 ins.diam.,bears N.67°15'W., 265 lks dist.,marked ¼ S 36 B T
40.40	Leave timber, bears NW. and SE. Begin more gradual ascent.
45.30½	Position midway between the closing cor. of Tps. 18 and 19 S., R.7 E. and the closing cor. of secs. 30 and 31, T.18 S., R. 7 E. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. on the W. bdy. of sec. 31, T. 18 S., R. 7 E., with brass cap marked | ¼ S 31 1916 raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor.
47.20	Begin abrupt ascent over S. slope.
56.00	Top of steep ascent and edge of "The Horn", 345 ft. above ¼ sec. cor., bears E. and S.65°W. Thence over rolling mountain top.
69.00	N. side of "The Horn", bears NW. and E. Descend abruptly over N. slope.
80.00	At base of steep descent, 210 ft. below brink of mountain. Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 25 and 36 on the E. bdy. of T.18 S.,R.6 E., with brass cap marked

East boundary of T. 18 S.,R.6 E.

chains	
	T 18 S S 25 S 36 R 6 E 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, rough, broken mountains and rolling mountain top. General N. and S. exposure and drainage from mountain top at 56 chs.
	Soil, shallow sandy clay loam, gravelly and rocky of sandstone formation on sandy and rocky sub-soil.
	Timber, scattering patches of cedar and pinon.
	Undergrowth, sagebrush, shadscale, service berry and buck brush.
	Consideranle grass, suitable for grazing.

	North, on E. bdy. of sec. 25, T. 18 S., R.6 E.
	Over rolling mountainous land sloping NE., through dense undergrowth of sagebrush.
	Gradually descend.
5.22	Position for the closing cor. of secs. 30 and 31, T.18 S. R. 6 E.
13.20	A lone patch of aspen timber about 2 chs. in dia., bears W. about 2 chs.
15.30	Enter scattering service berry undergrowth, bears E. and W.
21.90	About the center of a large shallow draw and series of small washes which head W. about 12 chs. and drain NE.
	Thence along nearly E. slope.
40.00	285 ft. below sec. cor.
	Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground on solid rock and 10 ins. in a mound of stone for ¼ sec. cor. on the E. bdy. sec. 25, T. 18 S., R. 6 E., with brass cap marked
	¼ S 25 1916

East boundary of T. 18 S., R. 6 E.

chains

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

45.20½ Position midway bet. the closing cor. of secs. 30 and 3 and 19 and 30, T. 18 S., R. 7 E.

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor on the W. bdy. sec. 30, T. 18 S.,R.7 E., with brass cap marked

¼ S 30
1916

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

50.40 Undergrowth becomes very scattering, bears E. and W.

55.00 Low ridge spur, projects NE.

Gradually descend over grassy N. slope.

69.70 Dry wash in wide shallow draw, 90 ft. below spur, course N.70°E.

Enter dense sagebrush and scattering service berry, bear N.70°E. and S.70°W.

Ascend.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 24 and 25 on the E. bdy. of T.18 S.,R.6 E., with brass cap marked

T 18 S
S 24
S 25
R 6 E
1916

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

Land, rolling mountainous, general E. exposure. Drains E. for about 30 chs. thence N.

Soil, sandy brown clay loam, mixed with gravel and rock of sandstone and limestone formation on sub-soil of dry brown loam and rock. Soil very sticky when wet.

Timber, scattering patches of aspen on both sides of line.

East boundary of T.18 S.,R.6 E.

chains	
	Undergrowth, sagebrush, service berry and grass.
	Good grazing land.

	North, on E. bdy. sec. 24, T.18 S.,R.6 E.
	Over rolling mountainous land along gentle E. slope through dense undergrowth of sagebrush and scattering service berry.
5.19	Position for the closing cor. of secs. 19 and 30, T.18 S., R. 7 E.
26.60	Top of rim of canyon, bears NW. and SE. Enter scattering pine timber, bears NW. and SE.
	Descend abruptly.
33.40	Bottom of canyon, 100 ft. below rim, course NW.
	Enter dense cedar and pinon timber, bears NW. and SE
	Ascend abruptly over broken W. slope, sandstone ledges and large boulders.
38.50	Point, 80 ft. above canyon, falls NW.
	Descend abruptly.
40.00	30 ft. below point.
	Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground and 8 ins. in a mound of stone for the ¼ sec. cor. on the E. bdy. of sec. 24, T.18 S.,R.6 E., with brass cap marked ¼ S 24 1916
	from which
	A cedar, 7 ins. diam.,bears S.30°W., 32 lks. dist., marked ¼ S 24 B T
	A cedar, 10 ins.diam.,bears N.59°15'W., 90 lks. dist.,marked ¼ S 24 B T
41.75	Ravine, 50 ft. below ¼ sec. cor., drains W. about 7 chs. to junction with canyon from SE., thence NW.
	Ascend abruptly over ledges and boulders.
45.16	Position midway bet. the closing cor. of secs. 19 and 30 and 18 and 19, T.18 S.,R. 7 E.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in

East boundary of T.18 S.,R.6 E.

chains	
	the ground for ¼ sec. cor. on the W. bdy. of sec. 19, T.18 S.,R.7 E., with brass cap marked ¼ S 19 1916 raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor.
	No suitable trees available.
46.95	N. brink of canyon, 100 ft. above base, bears NW. and SE. Thence over rolling broken bench land.
71.80	Small rocky gulch, drains W.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 13 and 24 on the E. bdy. of T.18 S.,R.6 E., with brass cap marked T 18 S S 13 S 24 R 6 E 1916 from which A cedar, 8 ins.diam.,bears S.49°30'W., 68 lks. dist.,marked T 18 S R 6 E S 24 B T A cedar, 8 ins.diam.,bears N.69°30'W., 307 lks. dist., marked T 18 S R 6 E S 13 B T
	Land, broken mountainous, cut by deep ravines and gulches draining NW. General exposure, S. 30 chs. NE., N. 50 chs. W.
	Soil, shallow brown sand and rocky of sandstone formation about 2 ft. deep, on sandstone bed rock.
	Timber, cedar, pinon and scattering yellow pine.
	Undergrowth, sagebrush, service berry and buck brush.
	Some grass, good for grazing.

	North, on E. bdy. sec. 13, T.18 S.,R.6 E.
	Over rolling and broken mountainous land through cedar and pinon timberand undergrowth of sagebrush, scattering service berry and buck brush.

East boundary of T.18 S.,R.6 E.

chains	
5.13	Position of closing cor. of secs. 18 and 19, T.18 S., R. 7 E.
8.35	Bottom of rocky gulch, 45 ft. below sec. cor., course N.80°W. Scattering young aspen timber in gulch. Ascend.
11.00	Low point of solid sandstone rock, projects W. about 3 chs. Descend.
12.20	Rocky gulch, drains S.80°W. about 3 chs. to junction with gulch from SE., thence N.70°W. Ascend abruptly over sandstone ledges and boulders.
15.35	Top of ledges, 115 ft. above gulch, bears N.75°W. and S.75°E.
37.60	S. brink of rocky gulch, bears E. and W. Descend abruptly.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. on the E. bdy. sec. 13, T.18 S., R. 6 E., with brass cap marked ¼ S 13 1916 from which A cedar, 6 ins.diam.,bears S.16°45'W., 242 lks. dist., marked ¼ S 13 B T A cedar, 10 ins.diam.,bears N.14°15'W., 175 lks. dist.,marked ¼ S 13 B T Continue descent.
44.95	Bottom of rocky gulch, 90 ft. below brink, course W. Ascend abruptly S. slope over sandstone ledges and boulders.
45.13	A northing of 40.00 chs. from the closing cor. of secs. 18 and 19, T.18 S.,R.7 E. Set an iron post, 3 ft. long, 1 in. in dia., 3 ins. in the ground on solid rock and 23 ins. in a mound of stone for the ¼ sec. cor. on the W. bdy. of sec. 18, T.18 S.,R.7 E., with brass cap marked ¼ S 18 1916

East boundary of T.18 S.,R.6 E.

chains	
	Raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor.
	No suitable trees available.
49.80	N. brink of gulch, bears E. and W. Enter scattering mahogany undergrowth, bears E. and W.
58.75	Enter dense mahogany undergrowth, bears E. and W.
69.00	S. brink of rocky gulch, bears S.80°W. and E.
	Descend abruptly over N. slope.
73.50	Bottom of gulch, 50 ft. deep, course W.
	Ascend abruptly.
77.30	N. brink of gulch, 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. 12 and 13 on the E. bdy. of T.18 S.,R.6 E., with brass cap marked T 18 S | S 12 | S 13 | R 6 E | 1916
	from which
	A mahogany, 10 ins.diam.,bears S.51°00'W.,30 lks dist., marked T 18 S R 6 E S 13 B T
	A cedar, 24 ins.diam.,bears N.78°W., 136 lks. dist., marked T 18 S R 6 E S 12 B T
	Land, mountainous cut by numerous rocky gulches. General W. exposure and drainage.
	Soil, red and brown sand and rocky of sandstone formation about 2 ft. deep on sandstone bed rock.
	Timber, cedar and pinon.
	Undergrowth, sage, service berry, buck brush and mahogany.
	Considerable grass, good for grazing.

	North, on E. bdy. of sec. 12, T. 18 S.,R.6 E.
	Over rolling mountainous land through cedar and pinon timber and undergrowth of sagebrush and mahogany.
6.32	Position of the closing cor. of secs. 7 and 18, T. 18 S., R. 7 E.

East boundary of T.18 S.,R.6 E.

chains	
13.90	S. brink of Straight canyon, bears E. and N.80°W. Descend abruptly over precipitous N. slope.
24.00	Enter dense pine and fir timber, bears E. and W. Descend over large boulders and series of small sandstone ledges. Point for ¼ sec. cor. on E. bdy. sec. 12, T.18 S.,R.6 E. will fall on sandstone ledge where cor. cannot be set, therefore at
39.60	Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground on solid rock and 10 ins. in a mound of stone for witness cor to the ¼ sec. cor. on the E. bdy. of sec. 12, T.18 S.,R.6 E., with brass cap marked WC ¼ S 12 1916 from which A pinon, 5 ins. diam., bears S. 64°W., 21 lks. dist.,marked W C ¼ S 12 B T A pinon, 8 ins.diam.,bears N.64°W., 31 lks. dist.,marked W C ¼ S 12 B T
40.00	Point for ¼ sec. cor. on ledge, 1000 ft. below brink of canyon. No cor. set.
	Continue abrupt descent.
46.44½	Position midway bet. the closing cor. of secs. 7 and 18 and the closing cor. of secs. 6 and 7, T.18 S.,R.7 E. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in a mound of stone on solid rock for ¼ sec. cor. on the W. bdy. of sec. 7 , T.18 S.,R.7 E., with brass cap marked ¼ S 7 1916 from which A fir, 4 ins.diam.,bears N.71°E., 19 lks. dist.,marked ¼ S 7 B T A fir, 4 ins.diam.,bears S.70°30'E., 19 lks. dist., marked ¼ S 7 B T

East boundary of T.18 S.,R.6 E.

chains	
61.20	Bottom of Straight canyon, 660 ft. below witness ¼ sec. cor., bears E. and W. Enter cottonwood timber.
	Thence across bottom of canyon.
61.30	Cottonwood creek, 35 lks. wide, 12 to 18 ins. deep, clear water, course E.
	Thence across land subject to overflow.
65.05	Leave land subject to overflow and cottonwood timber, also bank, 8 ft. high, bears E. and W.
	Gradually ascend over S. slope of canyon through dense cedar and pinon timber.
66.40	U.S.Forest Service Telephone line, bears N.75°E. and S.75°W.
67.65	Road, Orangeville to Ephraim,Utah, bears N.80°W. and S.80°E.
71.05	Enter ravine, course from winding N. to S.15°E.
71.85	Ascend more abruptly.
77.90	Leave dense timber, bears E. and SW.
	Ascend over SW. slope.
80.00	On SW. slope 110 ft. above canyon.
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 1 and 12 on the E. bdy. of T.18 S.,R.6 E., with brass cap marked

T 18 S
S 1
S 12
R 6 E
1916

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

No suitable trees available.

Land, rough broken mountains with steep N. and S. slopes into Straight canyon which drains E. on N. 66.10 chs. Rolling mountain top on S. 13.90 chs.

Soil, brown and blue clay, mixed with sandstone rock on rocky sub-soil.

Timber, cedar, pinon, pine and fir,

Undergrowth, sagebrush, scattering service berry, buck

East boundary of T.18 S.,R.6 E.

chains

brush and mahogany.

A few scattering cottonwood trees along creek in canyon.

North, on E. bdy. of sec. 1, T.18 S.,R.6 E.

Over rough mountainous land through scrub cedar and pinon timber and undergrowth of sagebrush and mahogany.

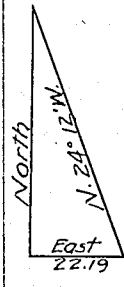
Ascend abruptly over S. slope of Straight canyon over series of sandstone ledges 50 to 100 ft. high.

2.80 Top of sandstone ledge about 100 ft. high, bears E. and W.

6.57 Position of closing cor. of secs. 6 and 7, T.18 S.,R.7 E.

The line north from this point passes over series of inaccessible ledges up which I cannot chain, I therefore triangulate as follows:

I return to a point 18.29 chs. south of the cor. of secs. 1 and 12 (this is the only point that I am able to set a flag ahead on line on E. bdy. of sec. 1) and set a flag on line north at base of top rim of Straight canyon and then measure a base line east, 22.19 chs.(the longest base I am able to obtain and see flag) to a point whence flag bears N.24°12'W. Tan 65°48' X base or 2.22510 x 22.19 gives 49.37 chs.



49.37 chs. — 18.29 chs. gives

31.08 To point of triangulation N. of cor. of secs. 1 and 12.

This point is at base of ledge bearing W. and E. about 4 chs. to high point of mountain and is about 1600 ft. above sec. cor. It is impossible to offset or project line north from this point, therefore

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in a mound of stone on solid rock for witness cor. to the ¼ sec. cor. on the E. bdy. of sec. 1, T.18 S.,R.6 E. and the ¼ sec. cor. on the W. bdy. of sec. 6, T.18 S., R.7 E., with brass cap marked

W C
¼
S 1 | S 6
1916

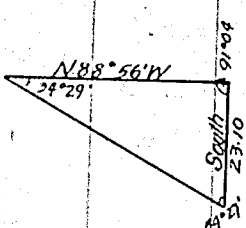
chains

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

This cor. is 8.92 chs. S. of the true cor. point for ¼ sec. cor. on the E. bdy. of sec. 1, T.18 S.,R.6 E. and 15.49 chs. S. of point for ¼ sec. cor. on the W. bdy of sec. 6, T.18 S.,R.7 E.

It being impossible to project line north from this point on account of ledges and breaks of mountain, I proceed to establish the closing cor. of Tp. 18 S., Rs. 6 and 7 E. as follows:

I place instrument on line bet. secs. 6 and 7, T.18 S., R.7 E. at a point 33.20 chs. E. and 6.57 chs. N. of the cor. of secs. 1 and 12, Thence I run on offset line North, 88.19 chs. or 94.76 chs. N. of the cor. of secs. 1 and 12. From this point the SE. cor. of T.17 S., R.6 E., bears N.88°56'W., 10.46 chs. I now return to true line on E. bdy. sec. 1 as follows:



From my north point on offset line set a point N.88° 56'W. on line on S. bdy. sec. 36, T.17 S.,R.6 E., then measure a base line south 23.10 chs. to a point where the angle bet. the E. and W. triangulation points is 54°27'. From the W. triangulation point the angle bet. the N. and S. ends of the base is 34° 29'

Log 23.10		1.363612
Log sin 54°27'		9.910415
Cologsin 34°29'		0.247056
	Log	1.521083 = 33.20 chs.

or a westing of 33.19 chs. and northing of .62 lks.

I now run N.88°56'W., 1 lk. to true line on E. bdy. of sec. 1 on which at

95.38 Intersect E. and W. line 22.74 chs. N.88°56'W. of the SE. cor. of T.17 S.,R.6 E. heretofore described.

At intersection

Set an iron post, 3 ft. long, 3 ins. in dia., 4 ins. in the ground on solid rock and 20 ins. in a mound of stone for closing cor. of Tp. 18 S., Rs. 6 and 7 E., with brass cap marked

East boundary of T.18 S.,R.6 E.

chains

T 17 S R 6 E
S 36

S 1 | S 6
R 6 E | R 7 E

T 18 S

from which

A cedar, 5 ins.diam.,bears S.68°E.,3 lks. dist.,marked C C T 18 S R 7 E S 6 B T

A cedar,6 ins.diam.,bears S.83°W., 9 lks. dist.,marked C C T 18 S R 6 E S 1 B T

Cor. stands on E. break of mountain about 600 ft. above N. fork of Cottonwood creek.

Land, S. 35 chs., S. slope of Straight canyon and break of mountain. Remainder of mile E. break of mountain.

Soil, rocky of sandstone formation on rocky sub-soil.

Timber, scrub cedar and pinon.

Undergrowth, sagebrush and mahogany.

West boundary of T.18 S.,R.6 E.

From the cor. of Tps. 18 and 19 S., Rs. 5 and 6 E. heretofore described,

North, on a random line bet. Rs. 5 and 6 E., setting temp. ¼ sec. and sec. cors. at intervals of 40.00 chs. and at 496.23 chs. intersect S. bdy. of sec. 31, T.17 S., R.6 E., 4.32 chs. N.89°46'E. of the cor. of Tps.17 and 18 S., Rs. 5 and 6 E. heretofore described. As this falling is out of limits, I begin at the cor. of Tps. 18 and 19 S., Rs. 5 and 6 E. and establish true range line as follows:

(Note: In running the random line no evidence was found of any of the old cors. reported as having been set on the north 4 miles.)

North, on true line bet. secs. 31 and 36

Over mountainous land across wide bench, through dense undergrowth of sagebrush.

West boundary of T.18 S.,R.6 E.

chains

7.10 Enter dense aspen and scattering fir timber, bears E. and W.

Begin gradual descent along E. slope.

16.80 S. edge of pond of stagnant water, 50 lks. wide and 2 chs. long.

21.80 Leave timber, bears N.20°W. and S.20°E.

26.00 Low ridge, bears NW. and S.20°E.

Descend over broken N. slope.

40.00 45 ft. below ridge.

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 36 | S 31

1916

from which

An aspen, 10 ins.diam.,bears N.80°30'W., 378 lks.dist.,marked ¼ S 36 B T

No other trees available.

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

45.60 Bottom of draw and wash, 10 lks. wide, 2 ft. deep, 10 ft. below ¼ sec. cor., course E.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 25,30,31 and 36, with brass cap marked.

T 18 S

R 5 E | R 6 E

S 25 | S 30

S 36 | S 31

1916

from which

An aspen, 6 ins.diam., bears N.65°E., 90 lks. dist.,marked T 18 S R 6 E S 30 B T

An aspen 5 ins.diam.,bears S.85°30'E., 68 lks. dist.,marked T 18 S R 6 E S 31 B T

An aspen, 6 ins.diam.,bears S.39°15'W., 38 lks.

chains	
	dist.,marked T 18 S R 5 E S 36 B T
	An aspen, 6 ins. diam.,bears N.71°30'W., 24 lks. dist., marked T 18 S R 5 E S 25 B T
	Land, rolling mountainous bench, general E. exposure and drainage.
	Soil, brown sandy loam, mixed with gravel and sandstone rock on dry brown sand and rock sub-soil.
	Timber, aspen, pine and fir.
	Undergrowth, sagebrush.
	Good grass, suitable for grazing.

	North, bet. secs. 25 and 30
	Over rolling mountainous land through scattering patches of dense aspen timber and undergrowth of sagebrush.
3.70	Enter scattering pine and fir timber, bears NW. and SE.
23.80	Land becomes more rough and broken with slides and numerous washes.
	Thence along broken E. slope.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{1}{4}$ S 25 | S 30 1916 from which
	A fir, 6 ins.diam.,bears S.63°E., 30 lks. dist., marked $\frac{1}{4}$ S 30 B T
	An aspen, 5 ins.diam.,bears S.29°30'W., 91 lks. dist., marked $\frac{1}{4}$ S 25 B T
51.75	Bottom of ravine and small stream, 1 lk. wide $\frac{1}{2}$ in. deep, good water, course E.
	Enter heavier pine and fir timber and scattering service berry brush, 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. 19,24,25 and 30, with brass cap marked

West boundary of T.18 S.,R.6 E.

chains	
	T 18 S R 5 E | R 6 E S 24 | S 19 S 25 | S 30 1916
	from which
	A fir, 10 ins. diam.,bears N.7°E., 66 lks. dist., marked T 18 S R 6 E S 19 B T
	A fir, 20 ins.diam.,bears S.78°W., 32 lks. dist.,marked T 18 S R 5 E S 25 B T
	A fir, 15 ins.diam.,bears N.27°30'W., 54 lks. dist., marked T 18 S R 5 E S 24 B T
	No other trees available.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, rolling and broken mountainous, general E. exposure and drainage.
	Soil, brown and gray sandy loam, gravelly and rocky on hard, dry sand and rocky sub-soil.
	Timber, aspen, pine and fir.
	Undergrowth, sagebrush and service berry.
	Good grass, suitable for grazing.
	North, bet. secs. 19 and 24.
	Over broken mountainous land through pine, fir and aspen timber and undergrowth of sagebrush, salal and scattering service berry.
	Ascend and descend along broken E. slope of mountain across numerous unimportant spurs and gullies caused by land slides and washes.
11.80	Enter scattering birch and willow undergrowth, bears E. and W.
12.70	Stream, 2 lks. wide, 1 in. deep, good water, course E.
17.55	Point, falls E.
	Descend abruptly along E. slope.
22.40	A spring, about 2 ft. diam., good water, bears E. about 2 chs. and flows E.

West boundary of T.18 S.,R.6 E.

chains	
32.50	Base of steep descent, enter dense willow undergrowth mixed with rose and hawthorn brush, bears E. and W. Gradually descend.
37.95	Stream of good water, 1 lk. wide, 1 in. deep, course E. Leave dense timber and undergrowth, bears E. and W.
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 24 | S 19 1916 from which An aspen, 5 ins.diam.,bears N.88°E., 164 lks. dist., marked ¼ S 19 B T A hawthorne, 4 ins.diam.,bears S.82°W., 108 lks. dist., marked ¼ S 24 B T
51.30	Ravine, 85 ft. below ¼ sec. cor., drains E. Several small springs and dense young aspen timber in ravine.
52.00	Leave timber, bears E. and W.
62.95	Wide draw, drains SE. Gradually ascend.
69.50	Begin abrupt ascent over SE. slope.
75.90	Spur, 140 ft. above draw, projects NE. Gradually descend along W. slope of spur; rough and broken.
78.10	Descend abruptly over NW. slope into small basin.
80.00	45 ft. below spur. Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 13,18,19 and 24, with brass cap marked T 18 S R 5 E | R 6 E S 13 | S 18 S 24 | S 19 1916 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

West boundary of T.18 S.,R. 6 E.

chains	
	Land, rough broken mountains, general E. exposure and drainage.
	Soil, brown and gray sandy loam, mixed with gravel and sandstone rock on hard, dry sand and rock sub-soil.
	Timber, pine, fir and aspen.
	Undergrowth, sagebrush, salal, service berry, willow, rose and hawthorne.
	Good grass, suitable for grazing.

	North, bet. secs. 13 and 18.
	Over rough broken mountains, across numerous unimportant spurs and gullies through dense undergrowth of sage and rabbit brush and scattering service berry.
2.30	South end of a fresh water lake, bears E. and W. about 3 chs. and N. and S. 5 chs. No visible outlet; lake lies in small basin.
7.30	N. end of lake. Leave basin. Ascend.
11.50	Low rocky ridge, bears N.20°W. and S.20°E.
	Gradually descend along broken NE. slope.
17.70	Small patch of dense aspen timber, bears E. and SW.
34.85	Enter greasewood undergrowth, bears E. and W.
40.00	On broken NE. slope, 215 ft. below ridge.
	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 13 | S 18 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
54.60	Dry wash, 7 lks. wide, 2 ft. deep, course NE.
64.50	Dry wash, 10 lks. wide, 3 ft. deep, course NE.
69.50	Enter scattering cedar and pine timber, bears E. and W.
80.00	310 ft. below ¼ sec. cor.
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in

West boundary of T.18 S.,R.6 E.

chains

the ground for cor. of secs. 7,12,13 and 18, with brass cap marked

T 18 S
R 5 E | R 6 E
S 12 | S 7
S 13 | S 18

1916

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

No suitable trees available.

Land, mountainous, general E. exposure and drainage.

Soil, shallow brown and gray sandy loam, mixed with gravel and sandstone rock on sandy and rocky sub-soil.

Timber, scattering patches of aspen, pine and cedar.

Undergrowth, sage, rabbit brush and service berry.

Good grass, suitable for grazing.

North, bet. secs. 7 and 12.

Over mountainous land along E. slope at west side of Joe's valley, across numerous unimportant spurs and gullies, through scattering cedar and pine timber and undergrowth of sage, rabbit brush, service berry and greasewood.

5.50 Ravine, wash in same, 10 lks. wide, 8 ft. deep, 50 ft. below sec. cor., course E.

14.60 Wash, 110 lks. wide, 15 ft. deep, stream of good water in same, 3 lks. wide, 3 ins. deep, course NE.

Enter heavier timber, bears NE. and SW.

19.40 Wash, 40 lks. wide, 8 ft. deep, course E.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground on solid rock and 6 ins. in a mound of stone for ¼ sec. cor. with brass cap marked

¼
S 12 | S 7
1916

from which

West boundary of T.18 S.,R.6 E.

chains	
	A cedar, 7 ins.diam.,bears N.28°15'E., 141 lks. dist., marked 1/4 S 7 B T
	A cedar, 6 ins.diam.,bears S.83°45'W., 101 lks. dist.,marked 1/2 S 12 B T
48.60	Enter scattering timber, bears E. and W.
75.30	Wash, 10 lks. wide, 6 ft. deep, course N.65°E. Dense willows and birch undergrowth along wash.
78.35	Old road, bears E. and N.65°W.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 1,6,7 and 12, with brass cap marked

T 18 S
R 5 E \| R 6 E
S 1 \| S 6
S 12 \| S 7

1916

from which

An oak, 4 ins.diam.,bears N. 14°E., 326 lks. dist., marked T 18 S R 6 E S 6 B T

A cedar, 8 ins.diam.,bears N.85°15'W., 301 lks. dist., marked T 18 S R 5 E S 1 B T

No other trees available.

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

Land, mountainous, general E. exposure and drainage.

Soil, shallow brown sandy loam mixed with gravel and sandstone rock on hard, dry sand and rock sub-soil.

Timber, scattering scrub cedar and pine.

Undergrowth, sagebrush, shadscale, service berry and greasewood.

Good grass, suitable for grazing.

North, bet. secs. 1 and 6

Over mountainous land along broken E. slope near base of mountain at west side of Joe's valley, through scattering scrub cedar and pine timber, through dense sagebrush, scattering service berry and greasewood undergrowth.

West boundary of T.18 S.,R.6 E.

chains	
	Gradually ascend.
5.80	Spur, 15 ft. above sec. cor., projects E.
	Descend abruptly over N. slope.
12.20	Ravine, 100 ft. below spur, drains N.65°E.
	Thence along nearly E. slope.
13.60	Small stream of good water, 1½ lks. wide, 1 in. deep, course E.
23.30	Enter heavier timber, bears E. and W.
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 1 | S 6 1916 from which A cedar, 6 ins.diam.,bears S.38°E., 306 lks. dist., marked ¼ S 6 B T A cedar, 10 ins.diam.,bears S.77°30'W., 160 lks. dist., marked ¼ S 1 B T
47.30	Dry wash, 30 lks. wide, 7 ft. deep, course NE.
56.85	Road, Orangeville to Ephraim, Utah, bears N.70°E. and S.70°W.
58.25	Dry wash, 30 lks. wide, 4 ft. deep, course N.75°E.
67.80	U. S. Forest Service Telephone line, bears E. and W.
93.80	Point of small rocky spur, falls E. Descend.
96.23	Intersect S. bdy. sec. 31, T.17 S.,R.6 E., 4.32 chs., N.89°46'E., of the cor. of Tps. 17 and 18 S.,Rs. 5 and 6 E. heretofore described. At intersection, Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for closing cor. of Tp. 18 S., Rs. 5 and 6 E. with brass cap marked T 17 S R 6 E S 31 S 1 | S 6 R 5 E | R 6 E T 18 S CC 1916

chains

from which

A pinon, 6 ins.diam.,bears S.2°W.,.283 lks. dist., marked C C T 18 S R 5 E S 1 B T

No other trees available.

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

Note: The old cor. of Tps. 17 and 18 S., Rs. 5 and 6 E. is remarked and remonumented for cor. of Tp.17S.Rs.5&6.E.

Land, mountainous, slopes and drains E. into Joe's valley.

Soil, shallow brown and gray sandy loam, mixed with gravel and sandstone rock on hard, dry sandy and rocky sub-soil.

Timber, scattering scrub cedar and pine.

Undergrowth, sagebrush, service berry, greasewood and rabbit brush. Some willow and birch along washes.

Good grass, suitable for grazing.

Subdivision of T.18 S.,R.6 E.

From the cor. of secs. 1,2,35 & 36, on S.bdy. of Tp., an iron post, 3 ins. in dia., extending 16 ins. above ground, firmly set and marked and witnessed as described by the surveyor general.

N.0°01'W., bet. secs. 35 and 36.

Over rough mountainous land through sagebrush and service berry undergrowth.

Descend.

2.90 Rocky ravine, 10 ft. below sec. cor., course W.

Enter scattering scrub cedar and pinon timber, bears E. and W. Ascend abruptly over S. slope.

5.95 Spur, 70 ft. above ravine, projects W.

Thence over unimportant spurs and gullies along broken W. slope.

15.70 Wide shallow wash in rocky ravine, 70 ft. below spur,

Subdivision of T.18 S.,R.6 E.

chains	
	drains SW. about 3 chs. into ravine draining S. Ascend.
25.15	Spur, 75 ft. above ravine, projects S.15°W. Thence along rough, broken rocky break, along E. side of ravine.
40.00	On W. slope at E. side of ravine, 75 ft. above spur and 10 ft. above ravine to the west. 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 35 | S 36 1916 from which A red cedar, 10 ins.diam.,bears N.13°15'E., 61 lks. dist., marked ¼ S 36 B T A pine, 10 ins.diam.,bears N.25°W., 47 lks. dist., marked ¼ S 35 B T
44.30	Ravine, 30 ft. above ¼ sec. cor., course S.75°W. Gradually ascend along broken E. slope. Tall pine timber along ravine.
48.40	Cross same ravine, course S.10°E.
51.00	Cross same ravine, course S.10°W. Small seep in ravine at this point. Ascend abruptly.
58.15	Enter aspen timber, bears E. and W.
60.20	Leave aspen timber, bears E. and W.
64.80	Top of steep ascent and S. brink of Mountain (The Horn) 315 ft. above ravine, bears NE. and SW. Leave timber, bears NE. and SW. Head of small seeps in ravine, bears E. about 3 chs. Thence over rolling mountain top.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 25,26,35 and 36, with brass cap marked

Subdivision of T.18 S.,R.6 E.

chains

T 18 S	R 6 E
S 26	S 25
S 35	S 36

1916

from which

A pine, 30 ins.diam.,bears N.23°16'E., 884 lks. dist., marked T 18 S R 6 E S 25 B T

A fir, 30 ins.diam., bears S.81°58'W., 662 lks. dist., marked T 18 S R 6 E S 35 B T

A fir, 36 ins.diam.,bears N.52°04'W., 1221 lks. dist., marked T 18 S R 6 E S 26 B T

No other trees available.

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

Land, S. 64.80 chs., rough, broken mountains, general S. and SW. exposures and drainage. Remainder of mile, rolling mountain top.

Soil, brown and blue clay, gravelly and rocky of sandstone and limestone formation on sub-soil of hard, dry sand and rocks.

Timber, cedar, pinon and some pine, fir and aspen on S. 64.80 chs.

Undergrowth, sagebrush and service berry.

Considerable grass in N.½ mile. suitable for grazing.

S.89°58'E., on a random line bet. secs. 25 and 36.

40.00 Set temp. ¼ sec. cor.

80.00 Intersect E. bdy. of the Tp. 5 lks. S. of the cor. of secs. 25 and 36 heretofore described

Thence

West, on true line bet. secs. 25 and 36

Over mountainous land through dense undergrowth of sage and scattering deer brush.

Ascend abruptly over E. slope.

12.00 Top of steep ascent and brink of mountain (The Horn) 205 ft. above sec. cor., bears N.20°W. and S.20°E.

chains	
	Thence over rolling mountain top.
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 25 / S 36 / 1916 from which A pine, 20 ins.diam.,bears N.86°20'W., 745 lks. dist., marked ¼ S 25 B T. No other trees available.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Gradually ascend over SE. slope.
47.40	Low point, 45 ft. above ¼ sec. cor., falls S.
	Thence along nearly S. slope.
51.75	Begin abrupt descent over SW. slope.
58.70	Small wash, heads N. of line about 2 chs. dist. and drains SW.
76.85	Wide shallow draw, heads N. of line about 8 chs. distant to low saddle in ridge and drains S.
80.00	The cor. of secs. 25,26,35 and 36, 145 ft. below point at 47.40 chs.
	Land, E. 12 chs., rough break of mountain, general NE. exposure and drainage. Remainder of mile, rolling mountain top, drains generally to the SW.
	Soil, shallow brown and blue clay loam, mixed with gravel and rock, sandstone and limestone formation on hard, dry clay and rocky sub-soil.
	Timber, a few scattering patches of pine and aspen on both sides of line.
	Undergrowth, sagebrush and scattering deer brush.
	Considerable grass, suitable for grazing.

	N.0°01'W., bet. secs. 25 and 26
	Over rolling mountain top, through dense short undergrowth of sagebrush.
	Gradually ascend.

chains

13.60 Low saddle in ridge at east side of the cap of "The Horn"
15 ft. above sec. cor., bears E. and W.
Dense aspen and pine timber bearing SE. and NE. about
1 ch. E. of line.

Gradually descend over NW. slope.

27.50 Enter dense pine and aspen timber, bears E. and W.
Begin steeper descent over N. slope.

33.85 Enter dense tall deer brush, bears E. and W.

39.70 Ravine and wash, 20 lks. wide, 5 ft. deep, 200 ft. below
ridge, drains N.30°E. Leave timber, bears N.20°E.
and SW.

Thence along general E. slope.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in
the ground on solid rock and 6 ins. in a mound of
stone for ¼ sec. cor., with brass cap marked

¼

S 26 | S 25

1916

from which

A pine, 7 ins.diam., bears S. 72°30'E., 66 lks.
dist., marked ¼ S 25 B T

An aspen, 8 ins.diam., bears S.12°45'W., 112 lks.
dist., marked ¼ S 26 B T

45.00 Begin gradual ascent.

50.00 Low point, 20 ft. above ¼ sec. cor. falls E.

Thence along E. slope gradually ascending and descending.

73.16 Wash, 30 lks. wide, 8 ft. deep, course NE.

80.00 185 ft. below point.

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 18 S | R 6 E
S 23 | S 24

S 26 | S 25

1916

Subdivision of T.18 S.,R.6 E.

chains	
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, mountainous, S. 13 chs., general S. exposure and drainage. N.67 chs. N. exposure and drainage.
	Soil, shallow brown and blue sandy clay loam, mixed with loose shales and rocks on sandy and rocky sub-soil.
	Timber, aspen and pine in central portion of mile.
	Undergrowth, sagebrush, deer brush and scattering service berry.
	Considerable grass, good for grazing.

	East, on a random line bet. secs. 24 and 25.
40.00	Set temp. ¼ sec. cor.
80.03	Intersect E. bdy. of the Tp. at the cor. of secs. 24 and 25 heretofore described.
	Thence
	West, on true line bet. secs. 24 and 25
	Over mountainous land through dense undergrowth of sagebrush and scattering service berry.
	Ascend over E. slope of ridge.
6.60	Leave dense sagebrush undergrowth, bears N. and S. A small dense patch of aspen timber bears N. about 1.50 chs. distant.
10.00	Grassy ridge, 55 ft. above sec. cor., bears N. and S.
	Thence over broken N. slope.
24.40	Small draw, wash in same, 15 lks. wide, 5 ft. deep, course N.20°W.
40.01½	Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground on solid rock and 10 ins. in a mound of stone for ¼ sec. cor., with brass cap marked ¼ S 24 / S 25 / 1916 raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

Subdivision of T.18 S.,R.6 E.

chains	
42.00	Low ridge spur, projects N.
	Gradually descend over W. slope.
50.00	Wash, 10 lks. wide, 6 ft. deep, course N.15°W. Small stream of clear water about 1 lk. wide and 1 in. deep in wash. South about 5 chs. is a small fenced spring which drains into watering troughs about 1 ch. west.
52.35	Dry wash in wide shallow ravine, 15 lks. wide, 7 ft. deep, 40 ft. below spur, course N.
	Gradually ascend over general E. slope, 120 ft. to
80.03	The cor. of secs. 23,24,25 and 26.
	Land, rolling mountainous, general N. exposure and drainage.
	Soil, sandy brown and blue clay loam, mixed with loose shales and rock of sandstone formation on sandy and gravelly sub-soil. Soil very sticky when wet.
	Timber, a few scattering pine and aspen on both sides of line.
	Undergrowth, sagebrush, service berry and grass.
	Good grazing land.

	N.0°01'W., bet. secs. 23 and 24.
	Over rolling mountainous land through dense undergrowth of sagebrush and scattering service berry.
	Ascend and descend along rolling E. slope.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 14 ins. in the ground on solid rock and 12 ins. in a mound of stone for ¼ sec. cor., with brass cap marked ¼ S 23 | S 24 1916 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
53.00	Leave undergrowth, bears E. and W.
	Thence along grassy slope.
64.30	Ridge spur, projects N.10°E.

chains

Gradually descend along rolling and broken N. slope.

73.85 Enter scattering scrub cedar and pinon timber and undergrowth of sagebrush and service berry, bears E. and W.

75.77 Small seep, drains N.20°W.

80.00 On N. slope 160 ft. below spur.

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 18 S S 14	R 6 E S 13
S 23	S 24

1916

from which

A pinon, 8 ins.diam.,bears S.8°45'E., 280 lks. dist., marked T 18 S R 6 E S 24 B T

A pinon, 12 ins.diam.,bears S.0°30'W., 309 lks. dist., marked T 18 S R 6 E S 23 B T

No other trees available.

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

Land, rolling mountainous, general NE. exposure and drainage.

Soil, shallow brown and blue sandy clay loam mixed with gravel and rock of sandstone formation on sandy and rocky sub-soil.

Timber, scrub cedar and pinon on northern portion of mile.

Undergrowth, sagebrush, service berry and grass.

Good grazing land.

East, on a random line bet. secs. 13 and 24.

40.00 Set temp. ¼ sec. cor.

80.06 Intersect E. bdy. of the Tp. at the cor. of secs. 13, and 24 heretofore described.

Thence

West, on true line bet. secs. 13 and 24.

Subdivision of T.18 S.,R.6 E.

chains	
	Over mountainous land through scrub cedar and pinon timber and undergrowth of sagebrush, service berry and buck brush.
	Gradually descend over W. slope.
17.95	Enter heavier timber, bears N. and S.
23.50	Begin abrupt descent over SW. slope, series of small sandstone ledges bears N. and S.
34.30	Bottom of canyon, 390 ft. below sec. cor., course N.15°W. Ascend abruptly.
	Point for ¼ sec. cor. will fall on sandstone ledge where cor. cannot be set, therefore at
39.80	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for witness cor. to the ¼ sec. cor., with brass cap marked
	$WC\frac{1}{4}$ $\frac{S\ 13}{S\ 24}$ 1916
	from which
	A pinon, 12 ins.diam.,bears N.4°30'E., 288 lks. dist.,marked W C ¼ S 13 B T
	A pinon, 16 ins.diam.,bears S.87°15'W., 103 lks. dist.,marked W C ¼ S 24 B T
40.03	Point for ¼ sec. cor. on ledge, 175 ft. above canyon. No cor. set.
41.00	Top of steep ascent and edge of canyon, bears N.10°W. and S.30°E. Leave timber, bears N.10°W. and S.30°E.
	Gradually ascend over rolling E. slope.
74.10	Ridge, 230 ft. above top of steep ascent, bears N.20°E. and SW.
	Gradually descend along N. slope.
80.06	The cor. of secs. 13,14,23 and 24.
	Land, mountainous with general E. and W. slopes into canyon draining N.
	Soil, rocky of sandstone formation with some shallow sandy clay soil on rocky sub-soil.
	Timber, cedar, pinon and a few yellow pine.
	Undergrowth, sagebrush, service berry, buck brush and

Subdivision of T.18 S.,R.6 E.

chains	
	grass.
	Good grazing land.

	N.0°01'W., bet. secs. 13 and 14.
	Over rolling mountainous land through scattering scrub cedar and pinon timber and undergrowth of sage and scattering service berry brush.
	Gradually descend over N. and NW. slope.
10.00	Enter heavier undergrowth, bears E. and W.
18.75	Head of draw, drains W. about 5 chs., thence NW.
34.15	Wide shallow draw, heads E. of line about 7 chs. distant at low saddle in ridge and drains N.75°W.
	Gradually ascend.
40.00	25 ft. above draw.
	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 14 | S 13

1916

from which

A pinon, 8 ins.diam.,bears N.35°E., 173 lks. dist.,marked ¼ S 13 B T

A pinon, 16 ins.diam.,bears S.84°45'W., 248 lks. dist.,marked ¼ S 14 B T

45.00	Thence over nearly W. slope.
50.00	Enter dense timber, bears E. and W.
65.70	Enter exceptionally dense 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. 11,12,13 and 14, with brass cap marked

T 18 S | R 6 E
S 11	S 12
S 14	S 13

1916

from which

chains

A pinon, 8 ins. diam.,bears N. 65°45'E., 85 lks. dist., marked T 18 S R 6 E S 12 B T

A pinon, 7 ins.diam.,bears S.76°45'E., 61 lks. dist., marked T 18 S R 6 E S 13 B T

A pinon, 18 ins.diam.,bears S.43°W., 81 lks. dist., marked T 18 S R 6 E S 14 B T

A pinon, 14 ins.diam., bears N.14°W., 214 lks. dist., marked T 18 S R 6 E S 11 B T

Cor. stands in dense timber, 150 ft. below cor. of secs. 13,14,23 and 24.

Land, rolling mountainous, general NW. exposure and drainage.

Soil, shallow brown and blue clay (contains considerable alkali) mixed with sandstone rock about 2 ft. deep on solid sandstone bedrock.

Timber, scrub cedar and pinon and a few pine.

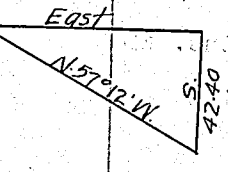
Undergrowth, sagebrush, service berry and grass.

Good grazing land.

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

14.25 Further measurement of this line east about 15 chs. is impossible on account of ledges and breaks of canyon. Being unable to get a base line for short triangulation across inaccessible part of mile I triangulate as follows:

Set a flag on line at east boundary of the Tp. 7 lks. S. of the cor. of secs. 12 and 13 and erect a flag at this point, then from E. flag measure a base line south, 42.40 chs. to a point whence W. flag bears N. 57°12'W. From W. flag, S. end of the base bears S.57°12'E., therefore tan. 57°12' x base or 1.55170 x 42.40 gives 65.79 chs. which added to 14.25 chs. makes



80.04 Intersect E. bdy. of the Tp. 7 lks. S. of the cor. of secs. 12 and 13 heretofore described.

Thence

S.89°57'W., on true line bet. secs. 12 and 13.

Subdivision of T.18 S.,R.6 E.

chains	
	Over mountainous land through cedar and pinon timber and undergrowth of sagebrush and scattering mahogany undergrowth.
	Gradually descend over W. slope.
9.60	Enter dense mahogany, bears N. and S.
13.60	Begin steeper descent and enter some scattering yellow pine timber, bears N. and S.
22.80	Brink of canyon and leave dense mahogany undergrowth, bears N. and S.
	Descend abruptly over broken sandstone ledges and large boulders.
40.02	800 ft. below 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 12 / S 13 / 1916
	from which
	A red cedar, 12 ins.diam.,bears N.43°E., 11 lks. dist., marked ¼ S 12 B T
	A red cedar, 10 ins.diam.,bears South, 41 lks. dist., marked ¼ S 13 B T
	The approximate topography west from this cor. to point of triangulation reads:
	Continue steep descent.
45.00	Bottom of canyon, 100 ft. below ¼ sec. cor., course N.
	Leave pine timber, bears N. and S.
	Ascend abruptly over ledges 50 to 100 ft. high, bears N. and S.
60.00	Top of ledges and edge of canyon, about 500 ft. above bottom, bears N.20°W. and S.20°E.
	Continue ascent.
65.79	Point of triangulation.
68.30	Ridge, 125 ft. above brink of canyon, bears N.20°W. and S.20°E.
	Gradually descend over gentle W. slope.

Subdivision of T.18 S.,R.6 E.

chains	
80.04	The cor. of secs. 11,12,13 and 14.
	Land, rough, broken mountains with general E. and W. slopes into deep canyon draining N.
	Soil, rocky of sandstone formation on rocky sub-soil.
	Timber, cedar, pinon and scattering yellow pine.
	Undergrowth, sagebrush, service berry, mahogany, buck brush and grass.
	E. and W. portions of mile good for grazing.

	N.0°01'W., bet. secs. 11 and 12.
	Over rolling mountainous land through dense cedar and pinon timber and undergrowth of sagebrush and service berry.
33.50	Top of S. brink of Straight canyon, bears NW. and SE.
	Leave undergrowth and dense timber, bears NW. and SE.
	Descend abruptly over precipitous N. slope.
38.43	At this point offset E. 45 lks. on account of ledges.
	It being impossible to reach the true point for ¼ sec. cor. either on true line or offset line and as it is impracticable to set witness cor. on true line within a reasonable distance from cor. point , I establish the witness ¼ sec. cor. on this offset line 45 lks. E. and 1.57 chs. S.0°01'E. of true cor. point as follows:
	Set an iron post, 3 ft. long, 1 in. in dia., 14 ins. in the ground on solid rock and 12 ins. in a mound of stone for witness cor. to the ¼ sec. cor., with brass cap marked

W C
¼
S 11 | S 12
1916

from which

A pinon, 8 ins.diam., bears S. 38°45'E., 29 lks. dist., marked W C ¼ S 12 B T

A pinon, 16 ins.diam.,bears S.66°30'W., 38 lks.

Subdivision of T.18 S.,R.6 E.

chains

dist.,marked W C ¼ S 12 B T

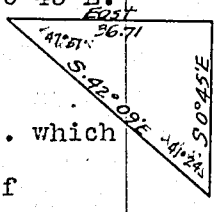
From this cor. coal chute at mouth of tunnel at Black Diamond coal mine bears N.20°E.; Tunnel at mouth of Oliphant mine bears N.18° 58'W.; Prospect hole bears N.15°20'W.

Thence

N.0°01'W., on offset line

38.52 A pine tree on line, blaze same on N. side. Further measurement of this line impossible on account of high ledges and precipitous slopes, I therefore triangulate as follows:

At a point 43.54 chs. east of the cor. of secs. 2,3,10 and 11 the tree at 38.52 chs. on offset line bet. secs. 11 and 12, bears S.42°09'E. From this point continue east 36.71 chs. to a point whence tree bears S.0°45'E.



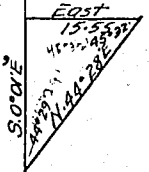
Log 36.71 chs.	----------	1.564784
Log sin 47°51'	----------	9.870047
Cologsin 41°24'	----------	0.179594
	Log	1.614425 = 41.16 chs. which

added to 38.52 chs. gives 79.68 chs. to point of triangulation. I now measure N.0°01'W. 32 lks. and east 8 lks. to true line bet. secs. 11 and 12 at

80.00 Point for cor. of secs. 1,2,11 and 12.

To ascertain the topography on the line bet. secs. 11 and 12, I triangulate as follows:

Set a point on line in bottom of Straight canyon and from a point 20 lks. S.0°01'E. of the cor. of secs. 1, 2,11 and 12 measure a base line east 15.55 chs. and set flag. From point on line in canyon the flag at E. end of base bears N.44°28'E.



Log 15.55 chs.	----------	1.191730
Log sin 45°32'	----------	9.853490
Cologsin 44°29'	----------	0.154467
	Log	1.199687 = 15.84 chs. plus

20 lks. or 16.04 chs. S.0°01'E. of the cor. of secs. 1,2,11 and 12 and

63.96 N.0°01'W. of the cor. of secs. 11,12,13 and 14.

Bottom of S. side of Straight canyon, bears E. and N.80°W.

Subdivision of T.18 S.,R.6 E.

chains

From this point;

Coal chute and mouth of tunnel at Black Diamond coal mine bears N.68°30'E.; Tunnel at mouth of Oliphant mine bears N.59°15'W.; Prospect hole bears N.52°W.; cabin at Black Diamond mine bears N.89°E. about 12 chs.

66.45 Bottom of Straight canyon and Cottonwood creek, 50 lks. wide, 12 to 24 ins. deep, good water, 1050 ft. below witness ¼ sec. cor., course E.

Ascend abruptly from canyon over ledges.

67.95 Road in canyon from Orangeville to Ephraim, Utah, bears E. and W.

68.78 U.S.Forest Service Telephone line, bears S.75°E. and W.

69.15 Road, Black Diamond to Oliphant coal mines, bears E. and W.

Thence ascend series of sandstone ledges, 50 to 100 ft high.

76.70 High ledge point, falls SE.

Thence along broken E. slope.

80.00 Amongst ledges on broken E. slope, 650 ft. above canyon. 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 18 S S 2	R 6 E S 1
S 11	S 12

1916

from which

A pinon, 12 ins.diam., bears N.84°E., 23 lks. dist., marked T 18 S R 6 E S 1 B T

A pinon, 12 ins.diam., bears S.4°E., 70 lks. dist., marked T 18 S R 6 E S 12 B T

A cedar, 10 ins.diam., bears S.5°W., 118 lks. dist., marked T 18 S R 6 E S 11 B T

A pinon, ins.diam., bears N.84°W., 20 lks. dist., marked T 18 S R 6 E S 2 B T

Land, S. 33.50 chs. rolling mountain top slopes and drains

Subdivision of T.18 S.,R.6 E.

chains

W. Remainder of mile precipitous N. and S. slopes into Straight canyon which drains E.

Soil, rocky of sandstone formation on rocky sub-soil.

Timber, cedar, pinon and a few pine.

Undergrowth, sagebrush and scattering service berry.

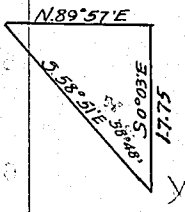
Grass on S. 33.50 chs. suitable for grazing.

N.89°57'E., on a random line bet. secs. 1 and 12.

40.00 Set temp. ¼ sec. cor.

50.80 Point of high ledges. Further measurement impossible on account of series of ledges and rims, I therefore triangulate as follows:

Set a point on line on the E. bdy. of the Tp. and erect a flag at this point. From east point measure a base line S.0°03'E., 17.75 chs. to a point where W. flag bears N.58°51'W. From flag S. end of the base bears S.58°51'E. Tan 58°48' x base or 1.65120 x 17.75 chs. gives 29.31 chs. which added to 50.80 chs. makes



80.11 Intersect E. bdy. of the Tp. 28 lks. S. of the cor. of secs. 1 and 12 heretofore described.

Thence

S.89°45'W., on true line bet. secs. 1 and 12.

Over rough broken mountainous land along S. breaks of ledges and Straight canyon, through scattering cedar and pinon timber and undergrowth of sagebrush.

Ascend abruptly over ledges.

29.31 To point of triangulation on point of ledge, 900 ft. above sec. cor., falls S.

Gradually descend along rugged S. slope.

37.40 Head of wide, steep rocky ravine, 85 ft. below point, course S.

Ascend abruptly over ledges, 115 ft. to

40.05½ Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground on solid rock and 20 ins. in a mound of stone for ¼ sec. cor., with brass cap marked

Subdivision of T.18 S.,R.6 E.

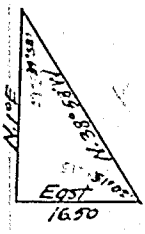
chains	
	$\frac{1}{4}$ S 1 / S 12 1916
	from which
	A pinon, 9 ins.diam.,bears S.8°E., 44 lks. dist.,marked $\frac{1}{4}$ S 12 B T
	A cedar, 16 ins.diam.,bears N.32°15'E., 71 lks. dist., marked $\frac{1}{4}$ S 1 B T
	Continue ascent.
42.10	Spur, 40 ft. above $\frac{1}{4}$ sec. cor., projects S.
	Descend abruptly over rocky SW. slope.
52.20	Top of ledge, bears N.80°W. and SE.
	Continue descent.
56.80	Coal vein, about 1½ ft. thick bearing E. and W., bears N. about 1 ch.
59.10	Leave high ledges, bears N.80°W. and SE.
	Continue abrupt descent over huge boulders.
66.60	Descend more gradually.
70.00	Begin abrupt descent over ledges 10 to 75 ft. high, bear NW. and SE. Coal indications visible on entire slope.
75.30	Bottom of steep rocky ravine, 410 ft. below spur, drains S.
	Ascend abruptly over ledges. Indications of coal on slope.
80.11	The cor. of secs. 1,2,11 and 12, 250 ft. above ravine.
	Land, very rough broken mountains, general S. exposure and drainage.
	Soil, rocky of sandstone formation on rocky sub-soil.
	Timber, scrub cedar and pinon.
	Undergrowth, sagebrush.

	N.0°01'W., on true line bet. secs. 1 and 2 knowing that closing cors. will be necessary on the N. bdy. of the Tp.
	Over rough precipitous S. break of Straight canyon over sandstone ledges and through very scattering scrub cedar and pinon timber and undergrowth of sagebrush.
	On account of high ledges the line north cannot be chained,

chains

I therefore triangulate as follows:

From a point 20 lks. south of the cor. of secs. 1,2,11 and 12, set a flag N.1°E. (impossible to set flag on line) on top of ledge and brink of canyon. Then measure a base line east, 16.50 chs. to a point whence flag bears N. 38°58'W. From flag, E. end of base bears S.38°38'E.



Log 16.50 chs.	----------	1.217484
Log sin 51°02'	----------	9.890707
Cologsin 39°58'	----------	0.192234
	Log	1.300425 = 19.97 chs.

I now offset west 35 lks. to a point

19.77 N.0°01'W. of the cor. of secs. 1,2,11 and 12 on top of sandstone ledge on N. brink of Straight canyon, 700 ft. above sec. cor., bears NE. and SW.

Enter dense cedar and pinon timber, bears NE. and SW.

Gradually ascend over broken E. and SE. slopes.

40.00 On top of low point, 150 ft. above brink of canyon.

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 2 | S 1

1916

from which

A pinon, 16 ins.diam.,bears N.55°45'E., 28 lks. dist.,marked ¼ S 1 B T

A pinon, 8 ins.diam., bears N.58°W., 131 lks. dist., marked ¼ S 2 B T

Gradually descend.

49.70 Ravine, 55 ft. below ¼ sec. cor., course SE.

Ascend abruptly over SW. slope.

57.10 Ascend more gradually over nearly W. slope.

70.20 Spur, 310 ft. above ravine, projects S.20°E.

Ascend abruptly over broken SE. slopes.

89.50 Top of steep ascent, and leave timber, bears NE. and W.

Gradually ascend over nearly W. slope.

chains	
96.26	275 ft. above spur. Intersect N. bdy. of the Tp. 16.44 chs. N.89°58'E., of the ¼ sec. cor. on the S. bdy. of sec. 35, T.17 S.,R. 6 E. heretofore described. At intersection, Set an iron post, 3 ft. long, 2 ins. in dia., 18 ins. in the ground on solid rock and 6 ins. in a mound of stone for closing cor. of secs. 1 and 2, with brass cap marked T 17 S R 6 E S 35 S 2 | S 1 T 18 S R 6 E CC 1916 raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor. Land, S.19.77 chs., rough break of Straight canyon, S. exposure anddrainage. Remainder of mile rolling mountainous land on top of high mountain, general S. exposure and drainage. Soil, rocky of sandstone formation on rocky sub-soil. Timber, scrub cedar and pinon. Undergrowth, sagebrush. Some grass. Land good for grazing in N.½ mile.
	From the cor. of secs. 2,3,34 and 35 on the S. bdy. of the Tp. which is an iron post, 3 ins. in dia., extending 12 ins. above ground, firmly set and marked and witnessed as described by the surveyor general. N.0°01'W., bet. secs. 34 and 35 Over rough mountainous land through scattering scrub cedar and pinon timber and undergrowth of buck, service, sagebrush and grass. Gradually descend over NW. slope.
1.50	Dry wash, 10 lks. wide, 8 ft. deep, 5 ft. below sec. cor., course SW.

Subdivision of T.18 S.,R.6 E.

chains	
	Gradually ascend over SW. slope.
21.60	Begin more abrupt ascent over S. slope.
29.60	Leave cedar timber and begin more gradual ascent, bears E. and W.
40.00	On gentle S. slope, 535 ft. above sec. cor. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$

S 34 | S 35

1916

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

61.00	Begin abrupt ascent over S. slope, bears E. and W.
69.50	Enter scattering yellow pine timber, bears E. and W.
71.50	Base of limestone ledge about 40 ft. high, bears E. and W.
73.90	Top of ledges and S. brink of the "Cap" of "The Horn", 640 ft. above $\frac{1}{4}$ sec. cor., bears E. and W.
	Enter dense pine, fir and aspen timber, bears E. and W.
	Thence over rolling land on top of the "Cap".
80.00	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 18 S | R 6 E

S 27 | S 26

S 34 | S 35

1916

from which

A fir, 7 ins.diam., bears N.32°45'E., 44 lks. dist., marked T 18 S R 6 E S 26 B T

A fir, 20 ins.diam., bears S.45°45'E., 42 lks. dist., marked T 18 S R 6 E S 35 B T

A fir, 20 ins.diam., bears S.51°15'W., 32 lks. dist., marked T 18 S R 6 E S 34 B T

A fir, 10 ins.diam., bears N. 60°45'W., 25½ lks. dist., marked T 18 S R 6 E S 27 B T

Subdivision of T.18 S.,R.6 E.

chains	
	Land, rough mountainous, general S. exposure and drainage.
	Soil, gray mountain soil mixed with loose shales and rock of limestone formation on hard, dry sand and rocky sub-soil.
	Timber, cedar and pinon in the southern portion, pine, fir and aspen in the northern portion.
	Undergrowth, buck, service berry, sagebrush and grass.
	Good grazing land.

	S.89°58'E., on a random line bet. secs. 26 and 35
40.00	Set temp. ¼ sec. cor.
80.10	Intersect N. and S. line 2 lks. N. of the cor. of secs. 25,26,35 and 36.
	Thence
	N.89°57'W., on true line bet. secs. 26 and 35.
	Over rolling mountainous land, through dense undergrowth of sagebrush.
	Gradually ascend over E. slope.
20.20	Enter aspen and balsam fir timber, bears N. and S.
31.30	Leave aspen timber, enter dense pine and fir timber, bears N. and S.
38.50	Enter aspen timber, bears N. and S.
40.05	300 ft. above 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 S 26 ¼ S 35 1916
	from which
	A fir, 8 ins.diam.,bears N.32°E., 33 lks. dist., marked ¼ S 26 B T
	A fir, 9 ins. diam.,bears S.21°30'E., 31 lks. dist., marked ¼ S 35 B T
43.70	Begin abrupt ascent over E. slope.
51.90	Top of steep ascent, ascend more gradually, bears N. and S.

Subdivision of T.18 S.,R.6 E.

chains	
	Thence over rolling land on top of the "Cap" of The Horn.
80.10	The cor. of secs. 26,27,34 and 35.
	Land, rolling and rough mountainous, general E. exposure, drains S.
	Soil, gray sandy clay loam mixed with limestone and sandstone rock on sandy and rocky sub-soil.
	Timber, pine, fir and aspen.
	Undergrowth, sagebrush.
	Considerable grass, good for grazing.

	N.0°01'W., bet. secs. 26 and 27
	Over nearly level land on top of the "Cap" of Horn mountain, through dense aspen, pine and fir timber and scattering undergrowth of sagebrush.
25.50	Leave "The Cap", bears E. and W.
	Gradually descend over N. slope.
31.40	Descend abruptly over N. slope.
34.30	Base of steep descent, descend more gradually.
40.00	200 ft. below 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 1916
	from which
	An aspen, 8 ins.diam.,bears S.55°30'E., 30 lks. dist., marked ¼ S 26 B T
	A fir, 10 ins.diam.,bears N.87°15'W., 56½ lks. dist., marked ¼ S 27 B T
40.10	Bottom of ravine, drains N.60°E.
	Leave dense timber, bears N.60°E. and S.60°W.
	Gradually ascend over SW. slope.
49.80	Ascend abruptly.
52.10	Top of bench, 165 ft. above ravine, bears NE. and SW.
	Thence across top of bench.

Subdivision of T.18 S.,R. 6 E.

chains	
54.80	Begin gradual descent over N. slope.
60.10	Descend abruptly over NE. slope over broken limestone ledges about 25 ft. high, bears N.25°W. and S.25°E. Enter dense timber, bears N.25°W. and S.25°E.
78.30	Base of steep descent and enter narrow bench, bears N.55°W. and S.55°E. Leave dense timber, bears NW. and SE.
80.00	465 ft. below bench. 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 18 S | R 6 E
S 22 | S 23
S 27 | S 26

1916

from which

An aspen, 5 ins.diam.,bears N.29°30'E., 100 lks. dist., marked T 18 S R 6 E S 23 B T

An aspen, 6 ins.diam.,bears S.23°30'E., 209 lks. dist., marked T 18 S R 6 E S 26 B T

An aspen, 8 ins.diam.,bears S.64°15'W., 74 lks. dist.,marked T 18 S R 6 E S 27 B T

An aspen, 4 ins.diam.,bears N.48°15'W., 95 lks. dist.,marked T 18 S R 6 E S 22 B T

Land, level benches and rough mountainous slopes, general NE. exposure and drainage.

Soil, black and gray loam, mixed with gravel and rock of limestone formation on gravelly and rocky sub-soil.

Timber, aspen, pine and fir.

Undergrowth, sagebrush and grass.

Good grazing land.

S.89°57'E., on a random line bet. secs. 23 and 26.

40.00	Set temp. ¼ sec. cor.
80.14	Intersect N. and S. line, 7 lks. N. of the cor. of secs. 23,24,25 and 26.

Subdivision of T.18 S.,R.6 E.

chains	
	Thence
	N.89°54'W., on true line bet. secs. 23 and 26.
	Over mountainous land through dense undergrowth of sage-brush.
	Ascend abruptly over E. slope.
9.50	Top of steep ascent, bears N. and S. Ascend more gradually.
27.20	Ridge, 345 ft. above sec. cor., bears N. and S.
	Leave dense sagebrush, enter dense aspem, pine and fir timber, bears N.25°E. and S.25°W.
	Gradually descend over W. slope.
30.40	Leave dense timber, bears N. and S.
40.07	220 ft. below ridge.
	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 1916
	from which
	An aspen, 7 ins. diam.,bears S.66°15'W., 137 lks. dist.,marked ¼ S 26 B T
	An aspen, 7 ins.diam.,bears N.41°30'W., 141 lks. dist.,marked ¼ S 23 B T.
42.40	Bottom of draw, 5 ft. below ¼ sec. cor., course N.
	Enter dense timber, bears N. and S.
	Ascend over NE. slope.
69.20	Leave dense timber, bears NE. and SW.
75.90	Top of bench, 200 ft. above draw, bears NW. and SE.
	Thence over nearly level bench.
80.14	The cor. of secs. 22,23,26 and 27.
	Land, mountainous with general E. and W. slopes into draws draining N.
	Soil, shallow brown and gray sandy loam mixed with gravel and rock on sandy and rocky sub-soil.
	Timber, aspen, pine and fir.
	Undergrowth, sagebrush and grass.

Subdivision of T.18 S.,R.6 E.

chains	
	Good grazing land.
	N.0°01'W., bet. secs. 22 and 23.
	Over nearly level land across top of narrow bench, through scattering fir and aspen timber and undergrowth of sagebrush.
2.90	Leave bench, bears NW. and SE. Gradually descend over N. slope.
6.20	Enter dense timber, bears SE. and W.
37.60	Leave dense timber, enter dense sagebrush undergrowth, bears E. and W.
40.00	220 ft. below 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 22 | S 23 1916
	from which
	A fir, 30 ins.diam.,bears N.59°30'E., 98 lks. dist.,marked ¼ S 23 B T
	A fir, 40 ins.diam.,bears S.36°15'W., 54 lks. dist., marked ¼ S 22 B T
69.20	Leave timber and enter scattering service and buck brush undergrowth, bears NW. and SE.
	Descend abruptly over NE. slope.
80.00	335 ft. below ¼ sec. cor.
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 14,15,22 and 23, with brass cap marked
	T 18 S | R 6 E S 15 | S 14 S 22 | S 23 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, mountainous, general NE. exposure, drains N.

Subdivision of T.18 S.,R.6 E.

chains	
	Soil, gray sandy loam, mixed with gravel and sandstone rock on gravelly and rocky sub-soil.
	Timber, aspen, fir and pine.
	Undergrowth, sagebrush, scattering service berry, buck brush and grass.
	Good grazing land.

	S.89°54'E., on a random line bet. secs. 14 and 23.
40.00	Set temp. ¼ sec. cor.
80.18	Intersect N. and S. line 2 lks. S. of the cor. of secs. 13,14,23 and 24.
	Thence
	N.89°55'W., on true line bet. secs. 14 and 23.
	Over rolling mountainous land through dense undergrowth of sagebrush and scattering service berry, buck brush and grass.
	Gradually descend over general NW. slope.
37.90	Bottom of draw, stream in same, 1 lk. wide, 1 in. deep, good water, 110 ft. below sec. cor., course N.
	Gradually ascend over general NE. slope.
40.09	20 ft. above ravine.
	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 14 / S 23 / 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Continue gradual ascent.
76.90	Ascend abruptly over NE. slope.
80.18	The cor. of secs. 14,15,22 and 23, 365 ft. above ¼ sec. cor.
	Land, mountainous, general N. exposure and drainage.
	Soil, shallow gray and brown sandy loam, mixed with gravel and sandstone rock on gravelly and rocky sub-soil.
	No timber.
	Undergrowth, sagebrush, scattering service berry, buck

chains

brush and grass.

Good grazing land.

N.0°01'W., bet. secs. 14 and 15.

Over mountainous land through dense undergrowth of sage-brush, scattering service berry and buck brush.

Descend abruptly over NE. slope.

7.20. Descend more gradually over NE. slope.

40.00 210 ft. below 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 15 | S 14

1916

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

Descend more rapidly over general N. slope.

80.00 405 ft. below ¼ sec. cor.

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 10,11,14 and 15, with brass cap marked

T 18 S | R 6 E

S 10 | S 11

S 15 | S 14

1916

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

Land, rolling and broken mountainous, general NE. exposure and drainage.

Soil, shallow brown and blue sandy clay loam, mixed with gravel and sandstone rock on sandy and gravelly sub-soil.

No timber.

Undergrowth, sagebrush, service berry, buck brush and grass.

Good grazing land.

---

chains	
	S.89°55'E., on a random line bet. secs. 11 and 14.
40.00	Set temp. ¼ sec. cor.
80.22	Intersect N. and S. line 12 lks. S. of the cor. of secs. 11,12,13 and 14.
	Thence
	West, on a true line bet. secs. 11 and 14.
	Over rolling mountainous land through dense cedar, pinon and fir timber and undergrowth of sagebrush, scattering service berry and buck brush.
	Gradually descend over W. slope.
17.20	Descend abruptly over W. slope.
28.30	Bottom of draw, 285 ft. below sec. cor., course NW.
	Leave dense timber, bears NW. and SE.
	Ascend abruptly over E. slope.
32.70	Point of spur, 55 ft. above draw, falls N.
	Descend abruptly over W. slope 150 ft. to
40.11	Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground on solid rock and 20 ins. in a mound of stone for ¼ sec. cor., with brass cap marked
	¼ S 11 / S 14 / 1916
	from which
	A fir, 36 ins.diam.,bears N.77°30'E., 84 lks. dist., marked ¼ S 11 B T
	A fir, 24 ins.diam.,bears S.13°E., 118 lks. dist.,marked ¼ S 14 B T
40.80	Bottom of ravine, 30 ft. below ¼ sec. cor., course N.
	Ascend abruptly over E. slope.
49.70	Top of steep ascent and leave timber, bears N. and S.
	Ascend more gradually.
53.20	Low ridge, 245 f t. above ravine, bears N. and SW.
	Thence along nearly N. slope.
70.00	Point of ridge, falls NW.
	Gradually descend over NW. slope.
79.30	Dry wash, 15 lks. wide, 5 ft. deep, course N.25°W.

Subdivision of T.18 S.,R.6 E.

chains	
80.22	The cor. of secs. 10,11,14 and 15.
	Land, mountainous, general N. exposure and drainage.
	Soil, gravelly and rocky of sandstone formation mixed with some brown sandy clay loam, on gravelly and rocky sub-soil.
	Timber, cedar, pinon and fir.
	Undergrowth, sagebrush, scattering service berry, buck brush and grass.
	Good grazing land.

	N.0°01'W., bet. secs. 10 and 11
	Over rolling mountainous land through dense undergrowth of sagebrush.
	Gradually descend over N. slope.
5.00	Bottom of wash, 15 lks. wide, 5 ft. deep, 25 ft. below sec. cor., course N.25°W.
	Thence over rolling bench land.
18.90	Enter scattering cedar and pinon timber and undergrowth of service berry and buck brush, bears E. and W.
21.80	Begin abrupt descent over N. slope.
31.90	Brink of mountain, bears NE. and SW. Enter dense pine and fir timber, bears E. and W.
	Descend precipitous N. and NW. slopes.
37.40	Top of sandstone ledges about 120 ft. high, bears N.55°E. and S.55°W.
39.85	Point for ¼ sec. cor. will fall on ledge where cor. cannot be set, therefore at this point,
	Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground on solid rock and 8 ins. in a mound of stone for witness cor. to the ¼ sec. cor., with brass cap marked
	W C ¼ S 10 | S 11 1916
	from which

Subdivision of T.18 S.,R.6 E.

chains	
	A pinon, 10 ins.diam.,bears N.64°30'E., 32 lks. dist., marked W.C. ¼ S 11 B T
	A pinon, 12 ins.diam.,bears N.79°30'W., 39 lks. dist., marked W.C. ¼ S 10 B T
	Continue steep descent.
40.00	Point for ¼ sec. cor. on ledge, 480 ft. below sec. cor. No cor. set.
45.60	Bottom of canyon and stream, 2 lks. wide, 2 ins. deep, good water, 255 ft. below ¼ sec. cor., course NE.
	Ascend abruptly over S^E. slope.
52.32	Base of high ledge point and impassable sandstone ledges about 250 ft. high, bears S.35°W. and N.35°E. about 5 chs. to ledge point, thence NW. To pass ledges I offset as follows:
	East, 3.37 chs.,
	N.0°01'W. 7.90 chs.,
	West, 3.37 chs. to true line at
60.13	Point at N. side of ledge point, 145 ft. above canyon.
	Descend precipitous N. slope into Straight canyon.
78.00	Wagon road, Orangeville to Ephraim, Utah, bears NW. and SE.
79.70	U.S.Forest Service Telephone line bears NW. and SE.
80.00	In bottom of Straight canyon at S. edge of creek, 980 ft. below ledge point.
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 2,3,10 and 11, with brass cap marked

T 18 S | R 6 E
S 3	S 2
S 10	S 11

1916

from which

A fir, 18 ins.diam.,bears N.66°45'E., 125 lks. dist.,marked T 18 S R 6 E S 2 B T

A fir, 20 ins.diam.,bears S.57°45'E., 260 lks. dist.,marked T 18 S R 6 E S 11 B T

Subdivision of T.18 S.,R.6 E.

chains	
	A cottonwood, 6 ins.diam.,bears S.24°30'W., 43 lks. dist.,marked T 18 S R 6 E S 10 B T
	A yellow pine, 30 ins.diam.,bears N.85°30'W., 24 lks.dist.,marked T 18 S R 6 E S 3 B T
	Land, rough, broken mountains with steep N. and NW. slope into canyons draining NE. and E.
	Soil, rocky of sandstone formation on rocky sub-soil.
	Timber, cedar, pinon, pine and some fir.
	Undergrowth, sagebrush, scattering service berry and buck brush.
	Considerable grass on S. 30 chs. suitable for grazing.

	East, on a random line bet. secs. 2 and 11.
40.00	Set temp. ¼ sec. cor.
80.30	Intersect N. and S. line 32 lks. S. of the cor. of secs. 1,2,11 and 12.
	Thence
	S.89°46'W., on true line bet. secs. 2 and 11.
	Over rough broken mountainous land on breaks of S. slope of Straight canyon, through scattering scrub cedar and pinon timber and undergrowth of sagebrush and shadscale.
	Ascend abruptly over sandstone ledges.
1.50	Spur, 40 ft. above sec. cor., projects S.35°E.
	Descend along rugged and broken SW. slope.
6.30	Steep rocky swale, 25 ft. below spur, course S.
	Ascend abruptly over ledges.
9.50	Top of ledges, 75 ft. above swale, bears N.80°W. and S.70°E. about 3 chs., thence S.75°E.
	Descend over ledges.
15.00	Bottom of wide steep swale, 85 ft. below ledges, course S.
	Ascend abruptly.
20.20	Spur, 115 ft. above swale, projects S.
	Gradually descend along nearly S. rugged slope.
31.40	Bottom of steep rocky ravine, 100 ft. below spur,

Subdivision of T.18 S.,R.6 E.

chains	
	course S. Indications of coal in ravine bear about 1 ch. N.
	Ascend abruptly over ledges.
35.40	Top of ledges, 105 ft. above ravine, bears SW. about 5 chs. and NE. about 8 chs. thence E. Indications of coal bears NE. and SW. along base of ledge.
	Continue ascent.
36.76	High ledgy point, falls S. From this point an old abandoned cabin in bottom of Straight canyon and at mouth of ravine from the south bears S.0°05'W.
	Gradually descend along rugged S. slope.
40.15	65 ft. below point.
	Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in a crevice of ledge to solid rock and 8 ins. in a mound of stone for ¼ sec. cor., with brass cap marked
	$\frac{1}{4}\ \frac{S\ 2}{S\ 11}\ 1916$
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	No suitable trees available.
48.42	Same cabin in bottom of Straight canyon, bears S.26°40'E.
56.30	Begin steep descent over SW. slope over series of sandstone ledges, 10 to 30 ft. high bearing NW. and SE.
59.80	Leave ledges bears NW. and SE. Continue steep descent over huge boulders.
79.70	Bottom of Straight canyon and Cottonwood creek,45 lks. wide, 12 to 24 ins. deep, good water, 660 ft. below ¼ sec. cor., course SE.
80.30	The cor of secs. 2,3,10 and 11.
	Land, rough broken mountains on S. slope of Straight canyon. S. exposure and drainage.
	Soil, rocky of sandstone formation on rocky sub-soil.
	Timber, cedar, pinon and a few pine and fir.
	Undergrowth, sagebrush and shadscale.
	----------

chains

N.0°01'W., on true line bet. secs. 2 and 3.

Over rough mountainous land through dense cedar, pinon and scattering fir timber and undergrowth of sagebrush.

.10 Bottom of Straight canyon and Cottonwood creek, 45 lks. wide, 12 to 24 ins. deep, good water, course SE.

Ascend abruptly over broken S. slope of canyon over huge sandstone boulders and series of small ledges.

28.60 Top of perpendicular sandstone ledge about 150 ft. high and rim of Straight canyon, 1000 ft. above sec. cor. bears N.70°W. and S.70°E.

Continue steep ascent.

38.30 Top of steep ascent, bears NE. and SW.

Ascend more gradually.

40.00 255 ft. above rim of canyon.

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 3 | S 2

1916

from which

A pinon,12 ins.diam.,bears S.47°15'E., 68 lks. dist., marked ¼ S 2 B T

A pinon, 14 ins.diam.,bears N.76°45'W.,39 lks. dist., marked ¼ S 3 B T

83.10 Leave dense cedar and pinon timber, bears E. and W.

89.70 Ridge, 365 ft. above ¼ sec. cor., bears NE. and SW.

Gradually descend over N. slope

95.58 Intersect N. bdy. of the Tp. 15.99 chs., N.89°56'E., of the ¼ sec. cor. on the S.bdy. of sec. 34, T.17 S.,R. 6 E. heretofore described.

At intersection,

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

Subdivision of T.18 S.,R.6 E.

chains	
	T 17 S R 6 E S 34 S 3 | S 2 T 18 S R 6 E CC 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor.
	Land, rough mountainous, general S. exposure and drainage.
	Soil, rocky of sandstone formation on rocky sub-soil.
	Timber, cedar, pinon and scattering fir and pine.
	Undergrowth, sagebrush.
	From the cor. of secs. 3,4,33 and 34 on the S. bdy. of the Tp. heretofore described.
	N.0°02'W., bet. secs. 33 and 34.
	Over rough mountainous land through scattering cedar and pinon timber and undergrowth of sagebrush, service berry and buck brush.
	Ascend abruptly over rocky SE. slope.
4.80	Ascend more gradually.
20.40	Enter scattering pine timber, bears NW. and SE.
24.30	Top of ridge, 295 ft. above sec. cor., bears NE. and S.35°W.
	Gradually descend over NW. slope.
28.70	Leave timber, bears NE. and SW.
38.70	Bottom of draw, 95 ft. below ridge, course WW.
	Gradually ascend over S. slope 5 ft. to
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 33 | S 34 1916 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
67.00	Top of ridge, 170 ft. above ¼ sec. cor., bears E. and W. Spur projects NW. from ridge at this point.

Subdivision of T.18 S.,R.6 E.

chains	
	Gradually descend over N. slope.
80.00	In bottom of swale, heads about 3 chs. SE., drains NW., 65 ft. below ridge.
	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 18 S | R 6 E
S 28	S 27
S 33	S 34

1916

from which

A pine, 24 ins.diam.,bears N.4°E., 414 lks. dist.,marked T 18 S R 6 E S 27 B T

An aspen, 4 ins.diam.,bears S.88°45'W., 387 lks. dist.,marked T 18 S R 6 E S 33 B T

A fir, 8 ins.diam.,bears N.4°W., 558 lks. dist.,marked T 18 S R 6 E S 28 B T

No other trees available.

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

Land, rough mountainous, general SE. exposure and drainage on S. 24.30 chs., NW. exposure and drainage on remainder of mile.

Soil, gray clay loam, mixed with gravel and rock on sandy and rocky sub-soil.

Timber, cedar, pinon and pine.

Undergrowth, sagebrush, service berry and buck brush.

Considerable grass, good for grazing.

S.89°58'E., on a random line bet. secs. 27 and 34.

40.00 Set temp. ½ sec. cor.

79.92 Intersect N. and S. line at the cor. of secs. 26,27,34 and 35.

Thence

N.89°58'W., on true line bet. secs. 27 and 34.

Over nearly level mountain top, through dense pine, fir

Subdivision of T.18 S.,R.6 E.

chains	
	and aspen timber and undergrowth of sagebrush.
15.70	Begin gradual descent over W. slope.
24.90	Head of draw, 5 ft. below sec. cor., course N.30°W.
	Gradually ascend over E. slope.
39.96	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 34 1916. from which An aspen, 6 ins.diam.,bears S. 3°W., 39 lks. dist.,marked ¼ S 34 B T A pine, 7 ins.diam.,bears N.63°15'W., 28 lks. dist.,marked ¼ S 27 B T
50.70	Top of ascent, bears N. and S.
	Gradually descend.
59.40	Bottom of draw, 45 ft. below top of ascent, heads about 3 chs. S., drains N.20°W.
	Gradually ascend.
63.50	Top of ascent and brink of mountain top, bears N.15°W. and S.15°E.
	Descend abruptly over limestone ledge about 100 ft. high.
64.30	Base of ledge. Continue descent over precipitous W.slope.
69.90	Leave timber, bears N.25°W. and S.25°E.
77.40	Base of steep descent, bears N.25°W. and S.25°E.
	Gradually descend.
79.92	The cor. of secs. 27,28,33 and 34, 540 ft. below brink of mountain.
	Land, E. 63.50 chs. nearly level mountain top. W.16.42 chs. rough mountainous land, W. exposure and drainage.
	Soil, shallow gray and brown sandy clay loam, mixed with gravel loose shales and limestone rock on hard, dry sand and rock sub-soil.
	Timber, pine, fir and aspen.
	Undergrowth, sagebrush and grass.

Subdivision of T.18 S.,R.6 E.

chains	
	Portions of mile good for grazing.
	N.0°02'W., bet. secs. 27 and 28
	Over mountainous land through dense undergrowth of sagebrush. Across bottom of wide swale.
3.00	Leave swale, gradually ascend over SW. slope.
5.00	Enter scattering pine timber, bears NW. and SE.
12.60	Top of bench, 55 ft. above sec. cor., bears SE. and NW. about 5 chs. thence N.
	Thence across top of bench.
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 28 | S 27 1916 from which A pine, 4 ins.diam.,bears N.10°30'E., 310 lks. dist.,marked ¼ S 27 B T A pine, 16 ins.diam.,bears S.52°30'W., 130 lks. dist.,marked ¼ S 28 B T
	Enter scattering aspen timber, bears E. and W.
60.30	Begin gradual descent over N. slope.
80.00	145 ft. below ¼ sec. cor.
	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 18 S | R 6 E S 21 | S 22 S 28 | S 27 1916 from which An aspen, 5 ins. diam.,bears N.35°E., 11 lks. dist., marked T 18 S R 6 E S 22 B T A pine, 12 ins.diam.,bears S.51°E., 65 lks. dist.,marked T 18 S R 6 E S 27 B T

Subdivision of T.18 S.,R.6 E.

chains

An aspen, 5 ins.diam.,bears S.69°15'W., 52 lks. dist.,marked T 18 S R 6 E S 28 B T

An aspen, 5 ins.diam.,bears N.63°45'W.,46 lks. dist.,marked T 18 S R 6 E S 21 B T

Land, mountainous, general W. exposure and drainage.

Soil, black sandy loam, mixed with gravel and sandstone rock on hard, dry sand and rocky sub-soil.

Timber, pine, fir and aspen.

Undergrowth, sagebrush and grass.

Good grazing land.

S.89° 58'E., on a random line bet. secs. 22 and 27

40.00 Set temp. ¼ sec. cor.

79.90 Intersect N. and S. line 5 lks. S. of the cor. of secs. 22,23,26 and 27

Thence

West, on true line bet. secs. 22 and 27

Over mountainous land through dense pine, fir and aspen timber and undergrowth of sagebrush, scattering service berry and buck brush.

Ascend over NE. slope of mountain.

22.30 Base of limestone ledge about 75 ft. high, bears NW. and SE.

24.40 Top of limestone ledges and brink of mountain top, 440 ft. above sec. cor., bears NW. and SE.

Gradually ascend.

25.55 Thence across nearly level top of mountain.

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

$$\frac{1}{4}\ \frac{S\ 22}{S\ 27}$$
1916

from which

A fir, 14 ins.diam.,bears S.17°45'W., 36 lks. dist.,marked ¼ S 27 B T

An aspen, 6 ins.diam.,bears N.58°45'W., 58 lks.

Subdivision of T.18 S.,R.6 E.

chains	
	dist., marked $\frac{1}{4}$ S 22 B T
44.70	Top of limestone ledges and leave mountain top, bears N.30°E. and S.30°W. Leave dense aspen timber, bears with ledges.
	Descend abruptly over precipitous W. slope.
45.60	Base ledges, about 50 ft. high, bears N.30°E. and S.30°W.
	Continue steep descent.
55.80	Base of steep descent and leave dense fir timber, bears NE. and SW.
	Gradually descend.
79.45	Dry wash, 15 lks. wide, 5 ft. deep, course N.60°W.
79.90	The cor. of secs. 21,22,27 and 28, 630 ft. below brink of mountain.
	Land, E. 24.40 chs. and W.35.20 chs. rough broken mountains, sloping and draining NE. and W. from high top of mountain. Remainder of mile nearly level mountain top.
	Soil,black and gray mountain loam, mixed with gravel and limestone rock on gravelly and rocky sub-soil.
	Timber, aspen, pine and fir.
	Undergrowth, sagebrush, scattering service berry, buck brush and grass.
	Parts of mile good for grazing.

	N.0°02'W., bet. secs. 21 and 22.
	Over mountainous land through aspen and fir timber and scattering undergrowth of sagebrush, service berry, buck brush and grass.
.20	Wash, 15 lks. wide, 3 ft. deep, course NW.
	Gradually ascend over SW. slope.
5.00	Top of low spur, projects N.60°W.
	Enter dense timber, bears N.60°W. and S.60°E.
	Gradually descend over N. slope.
12.60	Enter dense willow undergrowth, bears E. and W.

Subdivision of T.18 S.,R.6 E.

chains	
14.00	Stream, 1.lk. wide, 1 in. deep, good water, course NW.
15.40	Same stream, course N. 30°E.
17.80	From this point an old lumber shanty 10 x 14 ft. at abandoned saw mill site, bears W. about 3 chs.
29.30	Same stream, 2 lks. wide, 2 ins. deep, course NW. Dense willow undergrowth along stream.
33.60	Timber becomes scattering bears E. and W.
40.00	135 ft. below spur. 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 21 | S 22 1916 from which A fir, 12 ins.diam.,bears S.38°30'E., 215 lks. dist.,marked ¼ S 22 B T A pine, 8 ins.diam.,bears S.55°W., 182 lks. dist.,marked ¼ S 21 B T
45.00	Leave timber, bears E. and W.
50.00	Leave bench, bears NE. and SW. Descend abruptly over NW. slope.
73.50	Enter dense aspen timber and willow undergrowth, bears NE. and SW.
74.60	Descend more gradually over nearly N. slope.
77.80	Leave willow undergrowth, bears NE. and SW.
80.00	385 ft. below ¼ sec. cor. 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 18 S | R 6 E S 16 | S 15 S 21 | S 22 1916 from which An aspen, 4 ins.diam.,bears S.0°30'E., 25 lks. dist.,marked T 18 S R 6 E S 22 B T

Subdivision of T.18 S.,R.6 E.

chains	
	An aspen, 6 ins.diam.,bears S.53°15'W., 34 lks. dist.,marked T 18 S R 6 E S 21 B T
	An aspen, 6 ins.diam.,bears N.84°W., 58 lks. dist.,marked T 18 S R 6 E S 16 B T.
	No other suitable trees available.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, mountainous, general N. exposure and drainage.
	Soil, gray, sandy clay loam, mixed with gravel and sandstone rock on sandy and gravelly sub-soil.
	Timber, aspen, pine and fir.
	Undergrowth, sagebrush, service berry, buck brush, willow and grass.
	Good grazing land.

	East, on a random line bet. secs. 15 and 22.
40.00	Set temp. ¼ sec. cor.
79.84	Intersect N. and S. line 2 lks. N. of the cor. of secs. 14,15,22 and 23.
	Thence
	N.89°59'W., on true line bet. secs. 15 and 22.
	Over mountainous land, through dense undergrowth of sagebrush and scattering service berry.
	Ascend abruptly over NE. slope.
3.50	Ascend more gradually over nearly E. slope.
14.80	Top of east side of wide ridge, 215 ft. above sec. cor., bears N. and S.
	Thence across ridge.
31.80	Leave ridge and enter dense aspen timber, bears N. and S.
	Gradually descend over W. slope.
34.80	Leave aspen timber, bears N. and S.
39.92	20 ft. below ridge.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ½ sec. cor., with brass cap marked

Subdivision of T. 18 S., R. 6 E.

chains	
	$\frac{1}{4}$ S 15 / S 22 1916
	raise a mound of stone, 2 ft. base. 1½ ft. high, N. of cor.
43.50	Bottom ofmswale and wash, 10 lks. wide, 4 ft. deep, 25 ft. below ¼ sec. cor., course N.
	Gradually ascend over E. slope.
48.50	Enter dense pine, fir and aspen timber, bears N. and S.
50.10	Top of ridge, 20 ft. above swale, bears N. and S. Desc.
58.60	Leave dense timber, bears N. and S.
	Descend abruptly over NW. slope.
63.80	Small stream in wash, 1 lk. wide, 1 in. deep, cpurse NW.
66.60	Enter dense birch undergrowth, bears NE. and SW.
69.60	Leave birch undergrowth, bears NE. and SW. From this point a large corral bears N. about 15 chs.
71.30	Base of steep descent and enter dense young aspen timber,and willow undergrowth, bears NE. and SW.
75.20	Leave dense willow undergrowth, bears NE. and SW.
79.84	The cor. of secs. 15,16,21 and 22, 385 ft. below ridge.
	Land, rough mountainous, general N. exposure and drainage.
	Soil, gray sandy loam, mixed with gravel and sandstone rock on hard, dry clay and rock sub-soil.
	Timber, aspen, pine and fir.
	Undergrowth, service berry, sagebrush, willow and birch.
	Considerable grass, good for grazing.

	N.0°02'W., bet. secs. 15 and 16.
	Over mountainous land through dense young aspen and pine timber and undergrowth of birch, service berry, buck brush, scattering sagebrush and greasewood.
	Gradually descend over nearly N. slope.
4.00	Leave dense birch undergrowth, enter scattering spruce timber, bears NE. and SW.
5.50	Stream, 2 lks. wide, 2 ins. deep, good water, course W.
8.00	Emter dense spruce timber, bears NE. and SW.

Subdivision of T.18 S.,R.6 E.

chains	
13.20	Leave timber and dense undergrowth, bears NE. and SW.
40.00	350 ft. below 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 16 | S 15
	1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
71.00	Bottom of ravine and stream, 2 lks. wide, 2 ins. deep, good water, 250 ft. below ½ sec. cor., course NE.
	Gradually ascend over nearly E. slope.
77.90	Point of spur, 40 ft. above ravine, projects NE.
	Gradually descend over N. slope 10 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 9,10,15 and 16, with brass cap marked
	T 18 S | R 6 E
	S 9 | S 10
	S 16 | S 15
	1916
	from which
	A pinon, 10 ins.diam.,bears N.5°W., 400 lks. dist.,marked T 18 S R 6 E S 9 B T
	No other trees available.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, rough broken mountains, general N. exposure, and NE. drainage.
	Soil, brown sandy loam, mixed with gravel and rock of sandstone formation on hard, dry sand and rock sub-soil.
	Timber, dense pine, fir, aspen and spruce.
	Undergrowth, sagebrush, service berry, greasewood, willow and birch.
	Considerable grass, good for grazing.

Subdivision of T.18 S.,R.6 E.

chains	
	S.89°59'E., on a random line bet. secs. 10 and 15
40.00	Set temp. ¼ sec. cor.
79.86	Intersect N. and S. line 5 lks. S. of the cor. of secs. 10,11,14 and 15.
	Thence
	S.89°59'W., on true line bet. secs. 10 and 15.
	Over mountainous land through dense undergrowth of sage-brush, scattering service berry and buck brush.
	Gradually ascend over gentle NE. slope.
12.70	Ridge, 90 ft. above sec. cor., bears N. and S.
	Gradually descend over W. slope.
29.00	Stream, 2 lks. wide, 2 ins. deep, good water, course N. Stream heads about 1.50 chs. S. of line.
39.93	20 ft. below ridge.
	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 10 / S 15 / 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
55.50	Bottom of swale, 140 ft. below ¼ sec. cor., course NW.
	Gradually ascend.
62.50	Spur, projects NW.
	Gradually descend.
75.50	Ravine and stream, 2 lks. wide, 2 ins. deep, good water, 50 ft. below spur, course NE.
	Ascend 50 ft. to
79.86	The cor. of secs. 9,10,15 and 16.
	Land, mountainous, general N. exposure and drainage.
	Soil, gray sandy loam, mixed with gravel and sandstone rock on hard, dry sand and rocky sub-soil.
	No timber.
	Undergrowth, sagebrush, scattering service berry and grass.
	Good grazing land.

Subdivision of T.18 S.,R.6 E.

chains	
	N.0°02'W., bet. secs. 9 and 10
	Over mountainous land through dense undergrowth of sagebrush, scattering service berry and buck brush.
	Gradually descend over N. slope.
3.10	Draw, 15 ft. below sec. cor., course N.60°E.
	Enter dense cedar and pinon timber, bears N.60°E. and S.60°W.
	Ascend abruptly over S. slope.
8.10	Ascend more gradually over nearly SE. slope.
20.80	Wash, 30 lks. wide, 8 ft. deep, course SE.
29.50	Spur, 190 ft. above draw, projects SE.
	Descend abruptly.
32.60	Draw, 25 ft. below spur, course SE.
	Ascend 135 ft. to
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 9 | S 10 1916 from which A pinon, 16 ins.diam.,bears S.14°E., 4 lks. dist., marked ¼ S 10 B T A pinon, 12 ins.diam.,bears S.63°30'W.,60 lks. dist.,marked ¼ S 9 B T
41.50	Gradually ascend over SE. slope.
60.50	Ascend abruptly over SE. slope.
68.50	Ridge, 460 ft. above ¼ sec. cor., bears N.55°E. and S.55°W.
	Leave timber, bears with ridge.
	Descend abruptly over N. slope 240 ft. to
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 and 10, with brass cap marked T 18 S | R 6 E S 4 | S 3 S 9 | S 10 1916

chains	
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, rough mountainous with general SE. and N. exposure and drainage from ridge at 68.50 chs.
	Soil, gravelly and rocky of sandstone formation with some shallow gray clay on hard, dry clay and rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush, scattering service berry and buck brush.
	Considerable grass, good for grazing.

	N.89°59'E., on a random line bet. secs. 3 and 10
40.00	Set temp. ¼ sec. cor.
80.04	Intersect N. and S. line 9 lks. N. of the cor. of secs. 2,3,10 and 11.
	Thence
	N.89°57'W., on true line bet. secs. 3 and 10
	Over rough mountainous land through cedar, pinon, scattering yellow pine and fir timber and undergrowth of service berry, buck brush and some mahogany.
	Ascend abruptly over precipitous NE. slope of Straight canyon.
.20	U.S.Forest Telephone line, bears NW. and SE.
.85	Wagon road, Orangeville to Ephraim, Utah, bears NW. and SE.
26.60	Top of sandstone ledge about 150 ft. high, bears NW. and SE.
35.20	Leave fir timber and mahogany undergrowth, bears NW. and SE.
36.00	Top of steep ascent and brink of canyon, bears NW. and SE.
	Gradually ascend over NE. slope.
40.02	980 ft. above 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

Subdivision of T.18 S.,R.6 E.

chains	
	$\frac{1}{4}$ $\frac{S\ 3}{S\ 10}$ 1916
	from which
	A pinon, 7 ins.diam.,bears N.49°45'W., 26 lks. dist.,marked $\frac{1}{4}$ S 3 B T
	A cedar, 6 ins.diam.,bears S.2°W.,' 60 lks. dist., marked $\frac{1}{4}$ S 10 B T
41.90	Leave dense cedar and pinon timber, bears NW. and SE.
48.90	Leave timber, bears N. and S.
76.20	Point of ridge, 410 ft. above $\frac{1}{4}$ sec. cor., bears N. and S.
	Thence along nearly N. slope.
80.04	The cor. of secs. 3,4,9 and 10.
	Land, rough mountainous, E. 36.00 chs. precipitous NE. slope of canyon; remainder of mile rolling mountain top. General N. exposure and drainage to canyon draining E.
	Soil, rocky of sandstone formation with some shallow brown and blue clay on gravelly and rocky sub-soil.
	Timber, cedar, pinon, scattering pine and fir.
	Undergrowth, sagebrush, service berry, buck brush and mahogany.
	Some grass on W. $\frac{1}{2}$ mile suitable for grazing.

	N.0°02'W., on true line bet. secs. 3 and 4.
	Over rough mountainous land through scattering undergrowth of sagebrush and dense grass.
	Descend abruptly over N. slope towards Straight canyon.
21.20	Descend more gradually over N. slope.
26.20	Enter scattering pinon and spruce timber, bears E. and W.
32.60	Brink of Straight canyon, bears E. and N.50°W.
	Descend precipitous N. slope.
34.00	Enter dense timber, bears E. and W.
40.00	On steep N. slope 775 ft. below sec. cor.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked

Subdivision of T.18 S.,R.6 E.

chains

$\frac{1}{4}$

S 4 | S 3

1916

from which

A pinon, 8 ins.diam.,bears S.4°15'E., 34 lks. dist.,marked $\frac{1}{4}$ S 3 B T

A pinon, 24 ins.diam., bears N.66°30'W., 84 lks. dist., marked $\frac{1}{4}$ S 4 B T

40.70 Wash, 20 lks. wide, 5 ft. deep, course N.35°E.

41.90 Top of sandstone ledges about 100 ft. high, bears E. and N.50°W.

57.40 Wagon road, Orangeville to Ephraim,Utah, bears N.60°W. and S.60°E.

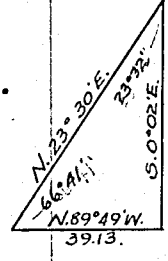
57.95 Bottom of Straight canyon and Cottonwood creek, 40 lks. wide, about 14 ins. deep, good clear water, 770 ft. below $\frac{1}{4}$ sec. cor., course S.60°E.

Ascend abruptly over precipitous S. slope.

59.00 U.S.Forest Service Telephone line, bears NW. and SE.

Further measurement of this line north is impossible on account of high sandstone ledges and rim of canyon, I therefore triangulate as follows:

I place transit on line on top of ledges on N. side of canyon at a point where a flag 5 lks. N. and 8 lks. E. of the cor. of secs. 3,4,9 and 10 bears S.0°02'E. From S. flag, measure a base line N.89°49'W., 39.13 chs. to a point where point on N. side of canyon bears N. 23° 30'E. From N. point the W. end of base bears S.23°30'W. (On account of position of country I am unable to obtain longer base and see flags.)



Log 39.13 chs.	----------	1.592510
Log sin 66°41'	----------	9.962999
Cologsin 23°32'	----------	0.398720
		1.954229 = 90.00 chs.

I now offset 8 lks. W. to point

90.05 N.0°02'W. of the cor. of secs. 3,4,9 and 10.

Note: The top of ledges and rim of Straight canyon which bears E. and W. bears S. about 10 chs. and is about 1500 ft. above canyon.

Subdivision of T.18 S.,R.6 E.

chains

Continue

N.0°02'W., gradually ascending through dense cedar and pinon timber.

96.61 Intersect N. bdy. of the Tp. 15.61 chs. S.89°57'E. of the ¼ sec. cor. on the S. bdy. of sec. 33, T.17 S., R.6 E. heretofore described.

At intersection,

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 3 and 4, with brass cap marked

T 17 S R 6 E
S 33

S 4 | S 3
T 18 S | R 6 E

CC
1916

from which

A pinon, 12 ins.diam.,bears S.28°E., 53 lks. dist., marked C C T 18 S R 6 E S 3 B T

A pinon, 12 ins.diam.,bears S.35°W., 44 lks. dist.,marked C C T 18 S R 6 E S 4 B T

Land, very rough, broken mountains with steep N. and S. slopes and breaks into canyon draining E.

Soil, rocky of sandstone formation with some shallow brown sandy clay soil on gravelly and rocky sub-soil.

Timber, cedar, pinon and spruce.

Undergrowth, sagebrush and grass.

Portions of mile good for grazing.

From the cor. of secs. 4,5,32 and 33 on the S. bdy. of the Tp. heretofore described.

N.0°03'W., bet. secs. 32 and 33.

Over rolling land in south end of Joe's valley, through dense undergrowth of sagebrush.

15.00 Leave valley, bears E. and W.

Enter mountainous land and cedar and pinon timber, bears E. and W.

Subdivision of T.18 S.,R.6 E.

chains	
	Ascend and descend over series of unimportant spurs and ravines.
17.20	Rocky wash, 1.50 chs. wide, 4 ft. deep, course W.
	Enter scattering service berry brush, bears E. and W.
38.75	Small rocky ravine, 60 ft. above wash, course S.20°W. about 1.50 chs., thence W.
	Ascend over S. slope.
40.00	40 ft. above ravine.
	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 32 | S 33

1916

from which

A pinon,10 ins.diam.,bears S.39°45'E.,42 lks. dist.,marked ¼ S 33 B T

A pinon, 10 ins.diam.,bears S.38°45'W., 42½ lks. dist.,marked ¼ S 32 B T

55.15	Enter dense cedar and pinon timber, bears E. and W.
77.40	Begin steep descent into ravine, bears E. and W.
78.90	Bottom of ravine, 55 ft. below brink, course W.
	Ascend 35 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground and 12 ins. in a mound of stone for cor. of secs. 28,29,32 and 33, with brass cap marked

T 18 S | R 6 E
S 29	S 28
S 32	S 33

1916

from which

A red cedar,10 ins.diam.,bears N.44°E., 93 lks. dist.,marked T 18 S R 6 E S 28 B T

A pinon, 16 ins.diam.,bears S.28°30'E., 191 lks. dist., marked T 18 S R 6 E S 33 B T

A pinon, 16 ins.diam.,bears S.8°45'W., 145 lks. dist.,marked T 18 S R 6 E S 32 B T

chains	
	A pinon, 14 ins.diam.,bears N.11°45'W., 46 lks. dist.,marked T 18 S R 6 E S 29 B T
	Land, S. 15 chs. rolling valley; remainder of mile low broken mountains, general W. exposure and drainage.
	Soil, sandy, gravelly and rocky of sandstone formation on moist, sandy clay and rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush and scattering service berry.
	Considerable grass and land suitable for grazing.

	East, on a random line bet. secs. 28 and 33.
40.00	Set temp. ¼ sec. cor.
79.70	Intersect N. and S. line 9 lks. N. of the cor. of secs. 27,28,33 and 34.
	Thence
	N.89°56'W., on true line bet. secs. 28 and 33.
	Over mountainous land through dense undergrowth of sage-brush. In bottom of swale.
1.50	Wash, in bottom of swale, 10 lks. wide, 2 ft. deep, course N.15°W.
	Gradually ascend.
4.00	S. end of a lone patch of scrub aspen trees.
5.20	Low ridge spur, projects NW.
	Gradually descend over W. slope.
25.75	Bottom of draw and wash, 25 lks. wide, 12 ft. deep, 230 ft. below ridge, course N.30°W.
	Gradually ascend.
31.00	Spur, 25 ft. above wash, projects N.20°W.
	Descend abruptly over broken W. slope.
31.30	Enter dense pine and fir timber, bears N. and S.
37.50	Leave dense timber, bears N. and S.
39.30	Leave pine and fir timber, enter scattering cedar timber, bears N. and S.
39.85	On steep W. slope, 230 ft. below spur.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked

Subdivision of T.18 S.,R.6 E.

chains

$\frac{1}{4}\ \frac{S\ 28}{S\ 33}$ 1916

from which

A pine, 12 ins.diam.,bears N.44°45'E., 118 lks. dist.,marked $\frac{1}{4}$ S 28 B T

A red cedar, 8 ins.diam.,bears S.75°15'W., 234 lks. dist.,marked $\frac{1}{4}$ S 33 B T

44.50 Leave cedar and pinon timber, bears N. and S.

57.15 Enter cedar and pinon timber, bears NE. and SW.

57.20 Head of ravine, drains S.70°W.

60.90 Ravine, 475 ft. below $\frac{1}{4}$ sec. cor., course S.70°W.

Gradually ascend.

66.00 Point of low spur, projects S.80°W.

Descend abruptly over SW. slope.

71.00 Ravine, 100 ft. below spur, course SW.

Thence along broken rocky S. slope of ravine.

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

Land, rough broken mountains, general W. exposure and drainage.

Soil, sandy clay loam, mixed with gravel and sandstone rock on gravelly and rocky sub-soil.

Timber, cedar, pinon, pine and fir.

Undergrowth, sagebrush, scattering service berry and some grass.

Portions of mile suitable for grazing.

N.0°03'W., bet. secs. 28 and 29.

Over rolling broken mountainous land through dense cedar and pinon timber and scattering undergrowth of service berry, sagebrush and greasewood.

Ascend abruptly over short S. slope of ravine.

1.20 N. brink of ravine, 30 ft. above sec. cor., bears E. and W.

Thence over rolling foothills or bench lands along gradual W. slope across numerous small unimportant ravines and spurs.

chains	
6.60	Small gully with perpendicular sides, wash in same, 40 lks. wide, 30 ft. deep, course W.
11.60	Leave timber, bears NE. and SW.
18.63	Spur, 40 ft. above gully, projects W. Old wagon road from Orangeville to saw mill on top of mountain, bears E. and W. Gradually descend over NW. slope.
23.90	Small rocky gulch, 40 ft. below spur, course N.65°W. about 3 chs., thence W. Enter dense cedar and pinon timber, bears NE. and SW. Thence gradually ascend along broken W. and SW. slopes.
27.70	Low point, 30 ft. above gulch, projects W. about 2 chs. Descend over NW. slope.
29.10	Small gulch, 20 ft. below point, course SW. Ascend.
36.50	Ascend very gradually.
39.70	Wash, 10 lks. wide, 7 ft. deep, course W.
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 29 | S 28 1916 from which A pinon, 16 ins.diam., bears S.81°30'E., 95 lks. dist., marked ¼ S 28 B T A pinon, 30 ins.diam., bears N.62°30'W., 132 lks. dist., marked ¼ S 29 B T
43.20	Timber and undergrowth becomes more scattered, bears E. and W.
55.70	Low point about 15 ft. above ¼ sec. cor., falls W. Gradually descend over NW. slope.
62.30	Begin abrupt descent.
65.10	Rocky ravine, 115 ft. below point, course N.70°W. Ascend abruptly over steep rocky broken S. slope over small sandstone ledges.

Subdivision of T.18 S.,R.6 E.

chains	
72.50	Spur, 120 ft. above ravine, projects W. Timber and undergrowth become denser.
	Gradually descend over NW. slope.
80.00	On W. slope 60 ft. below spur.
	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 18 S | R 6 E
S 20	S 21
S 29	S 28

1916

from which

A pinon, 10 ins.diam.,bears N.83°E., 191 lks. dist.,marked T 18 S R 6 E S 21 B T

A pinon, 24 ins.diam.,bears S.45°15'E.,162 lks. dist.,marked T 18 S R 6 E S 28 B T

A pinon, 20 ins.diam.,bears S.18°W., 183 lks. dist.,marked T 18 S R 6 E S 29 B T

A red cedar,6 ins.diam.,bears N.10°30'W., 83 lks. dist.,marked T 18 S R 6 E S 20 B T

Land, broken foothills and bench lands, general W. exposure and drainage.

Soil, gravelly and rocky of sandstone formation mixed with some blue clay soil and shales on gravelly and rocky sub-soil.

Timber, cedar and pinon.

Undergrowth, sagebrush, service berry and greasewood.

S.89°56'E., on a random line bet. secs. 21 and 28

40.00 Set temp. ¼ sec. cor.

79.82 Intersect N. and S. line9 lks. N. of the cor. of secs. 21,22,27 and 28.

Thence

N.89°52'W., on true line bet. secs. 21 and 28

Over rolling mountainous land through dense pine, fir

Subdivision of T.18 S.,R.6 E.

chains	
	and aspen timber and undergrowth of sagebrush and scattering service berry.
	Gradually descend.
9.70	Leave dense timber, bears N. and S.75°W.
20.90	Series of small washes, drain NW.
28.00	W. brink of mountain, bears N.30°E. and S.30°W.
	Descend abruptly over W. slope.
32.40	Wash, 20 lks. wide, 13 ft. deep, course N.80°W.
	Enter pine and fir timber, bears N.80°W. and SE.
34.00	Leave pine and fir, enter scattering cedar and pinon timber, bears NW. and SE.
39.91	On W. slope, 445 ft. below sec. cor.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked S 21 ¼ S 28 1916
	from which
	A pinon, 12 ins.diam.,bears N.72°45'E., 406 lks. dist.,marked ¼ S 21 B T
	A red cedar, 6 ins.diam.,bears S.26°30'E.,207 lks.dist.,marked ¼ S 28 B T
	Continue descent.
48.80	Ravine, 200 ft. below ¼ sec. cor., course N.20°W. about 3 chs., thence NW. Ravine heads about 3 chs. S. Ascend abruptly.
51.50	Top of steep ascent, ascend more gradually.
55.80	Spur, 30 ft. above ravine, projects N.60°W.
	Descend abruptly.over W. slope.
64.30	Descend more gradually.
72.30	Enter dense cedar and pinon timber, bears N. and S.
79.82	The cor. of secs. 20,21,28 and 29, 330 ft. below spur.
	Land, rolling and rough mountainous, general W. exposure and drainage.
	Soil, shallow brown and blue clay loam mixed with gravel and rock of sandstone formation on sandy and rocky sub-soil.

Subdivision of T.18 S.,R.6 E.

chains	
	Timber, cedar, pinon, pine, fir and aspen.
	Undergrowth, sagebrush, scattering service berry and buck brush.
	Considerable grass, good for grazing.

	N.0°03'W., bet. secs. 20 and 21
	Over mountainous land along broken W. slope of mountain through dense cedar and pinon timber and undergrowth of sagebrush, scattering service berry and buck brush.
	Gradually descend over broken NW. slope.
5.50	Begin abrupt descent.
12.60	Bottom of rocky ravine, 100 ft. below sec, cor., course S.20°W.
	Ascend abruptly.
14.80	Top of steep ascent, bears E. and S.80°W.
	Thence along gradual W. slope of wide spur.
28.30	Gulch with perpendicular sides, 60 ft. below spur, course N.70°W.
	Ascend over perpendicular bank.
29.60	High bank, 20 ft. above gulch, bears E. and W.
	Descend abruptly.
30.70	Gulch, 40 ft. deep, course W.
	Ascend abruptly.
33.20	N. bank of gulch, 40 ft. above bottom, bears E. and W.
	Thence along broken W. slope.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked

$$\frac{\frac{1}{4}}{\text{S 20} \mid \text{S 21}}$$

1916

from which

A pinon, 16 ins. diam., bears N.78°30'E., 43 lks. dist., marked $\frac{1}{4}$ S 21 B T

A pinon, 16 ins. diam., bears N.25°W., 50 lks. dist., marked $\frac{1}{4}$ S 20 B T

Subdivision of T.18 S.,R.6 E.

chains	
44.10	Descend abruptly into gulch.
44.85	Bottom of gulch, 35 ft. deep, course W.
	Ascend abruptly.
48.40	Point, 80 ft. above gulch, projects W.
	Descend abruptly.
49.75	Small ravine, 35 ft. below point, course S.70°W.
	Ascend abruptly.
53.30	Top of ascent, 65 ft. above ravine, bears E. and W.
	Thence along gradual W. slope.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 16,17,20 and 21, with brass cap marked

T 18 S S 17	R 6 E S 16
S 20	S 21

1916

from which

A pinon,20 ins.diam.,bears N.60°30'E.,183 lks. dist.,marked T 18 S R 6 E S 16 B T

A pinon, 16 ins.diam.,bears S.86°15'E., 126 lks. dist.,marked T 18 S R 6 E S 21 B T

A pinon, 6 ins.diam.,bears S.85°30'W., 231 lks. dist.,marked T 18 S R 6 E S 20 B T

A pinon,16 ins.diam.,bears N.29°40'W., 280 lks. dist.,marked T 18 S R 6 E S 17 B T

Land, rough, broken mountains, general W. exposure and drainage.

Soil, gravelly and rocky of sandstone formation and mixed with sandy blue clay and loose shales on gravelly and rocky sub-soil.

Timber, cedar and pinon.

Undergrowth, sagebrush, service berry, buck brush and grass.

Land good for grazing.

S.89°52'E., on a random line bet. secs. 16 and 21.

Subdivision of T.18 S.,R.6 E.

chains	
40.00	Set temp. ¼ sec. cor.
79.68	Intersect N. and S. line 2 lks. N. of the cor. of secs. 15,16,21 and 22.
	Thence
	N.89°51'W., on true line bet. secs. 16 and 21.
	Over mountainous land through dense aspen timber and undergrowth of sagebrush, service berry and birch.
	Descend abruptly over NW. slope.
2.80	Leave timber, bears NE. and S.
4.10	Descend more gradually.
8.80	Dry wash, 10 lks. wide, 8 ft. deep, course N.
11.70	Bottom of ravine and stream, 1 lk. wide, 1 in. deep, 70 ft. below sec. cor., course N.
	Thence over gentle N. slope.
19.50	Base of steep ascent, bears N.30°W. and S.30°E.
	Ascend abruptly.
29.60	Ascend more gradually.
34.80	Top of ridge from Horn mountain, 265 ft. above ravine, bears N.10°W. and S.10°E.
	Gradually descend over W. slope.
37.00	Enter cedar, pinon and scattering pine timber, bears N. and S.
39.84	55 ft. below ridge.
	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 16 / S 21 / 1916
	from which
	A pine, 8 ins. diam., bears N.62°45'E., 118 lks. dist., marked ¼ S 16 B T
	A pinon, 9 ins. diam., bears S.51°45'E., 96 lks. dist., marked ¼ S 21 B T
41.50	Descend more gradually over general W. slope.
72.70	Enter dense cedar and pinon timber, bears N. and S.
79.68	The cor. of secs. 16,17,20 and 21, 715ft. below ¼ sec. cor.

Subdivision of T.18 S.,R.6 E.

chains	
	Land, rough broken mountains, slopes and drains NE. and W. from high ridge at 34.80 chs.
	Soil, gravelly and rocky of sandstone formation with some brown clay soil on hard, dry clay and rocky sub-soil.
	Timber, cedar, pinon, pine, aspen and fir.
	Undergrowth, sagebrush, scattering service berry, birch and grass.
	Land suitable for grazing.

	N.0°03'W., bet. secs. 16 and 17.
	Over broken mountainous land along broken W. slope of mountain across numerous unimportant ridges and ravines and through dense cedar and pinon timber and undergrowth of sagebrush.
6.80	Gully, about 1.50 chs. wide, 20 ft. deep, course N.80°W.
	Leave dense timber, bears E. and W.
23.80	Low, wide spur, 30 ft. above sec. cor., projects W.
	Descend.
28.30	Gulch, 75 ft. below spur, course W.
35.80	Gulch, about 1 ch. wide, 30 ft. deep, course W.
	Enter scattering greasewood undergrowth, bears E. and W.
39.80	Wash, in shallow swale, 10 lks. wide, 2 ft. deep, course W.
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 17 | S 16

1916

from which

A pinon, 6 ins.diam.,bears S.26°45'E.,249 lks. dist.,marked ¼ S 16 B T

A pinon,17 ins.diam.,bears S.21°45'W.,295 lks. dist.,marked ¼ S 17 B T

Subdivision of T.18 S.,R.6 E.

chains

42.55 Stream, 1 lk. wide, 2 ins. deep, good water, course W.

73.40 Ravine, drains SW.

77.20 Head of ravine, drains W. Small seep at head.

80.00 195 ft. above ¼ sec. cor.

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 18 S S 8	R 6 E S 9
S 17	S 16

1916

from which

A pinon,16 ins:diam.,bears N.16°E., 449 lks. dist.,marked T 18 S R 6 E S 9 B T

A pinon, 18 ins:diam.,bears S.79°15'E., 163 lks. dist.,marked T 18 S R 6 E S 16 B T

A pinon,10 ins.diam.,bears S.1°45'W., 436 lks. dist.,marked T 18 S R 6 E S 17 B T

A pinon;16 ins.diam.,bears N.2° 30'W., 816 lks. dist.,marked T 18 S R 6 E S 8 B T

Land, rough, broken mountainous, general W. exposure and drainage.

Soil, gravelly and rocky of sandstone formation and mixed with some shallow brown and blue clay on gravelly and rocky sub-soil.

Timber, cedar and pinon, very dense in places.

Undergrowth, sagebrush and grass.

Land suitable for grazing.

S.89°51'E., on a random line bet. secs. 9 and 16.

40.00 Set temp. ¼ sec. cor.

79.69 Intersect N. and S. line 5 lks. N. of the cor. of secs. 9,10,15 and 16.

Thence

N.89°49'W., on true line bet. secs. 9 and 16.

Over mountainous land through dense undergrowth of sage-

Subdivision of T.18 S.,R.6 E.

chains	
	brush and scattering service berry.
	Gradually ascend over NE. slope.
22.70	Thence over nearly E. slope.
31.20	Dry wash in small gully, 15 lks. wide, 7 ft. deep, course NE. about 3.50 chs. to large wash draining N.80°E.
	Begin ascent over SE. slope.
39.84½	At base of steep ascent, 265 ft. above 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 9 / S 16 / 1916
	from which
	A pinon, 16 ins.diam.,bears S.84°22'E.,703 lks. dist.,marked ¼ S 16 B T
	A pinon, 7 ins.diam.,bears N.58°15'E.,69 lks. dist.,marked ¼ S 9 B T
	Begin steep ascent over SE. slope.
54.50	Enter cedar and pinon timber, bears N.80°E. and S.80°W.
58.70	Top of ridge from Horn mountain, 300 ft. above ¼ sec. cor. bears N. and S.
	Descend abruptly over rough, rocky W. slope.
79.69	The cor. of secs, 8,9,16 and 17, 490 ft. below ridge.
	Land, mountainous, general E. and W. exposure and drainage from ridge at 58.70 chs.
	Soil, shallow brown sandy clay loam, mixed with gravel and rock of sandstone formation on gravelly and rocky sub-soil.
	Timber, scrub cedar and pinon.
	Undergrowth, sagebrush, scattering service berry and grass.
	Land suitable for grazing.

	N.0°03'W., bet. secs. 8 and 9.
	Over rough broken mountainous land along general W. slope of ridge across numerous unimportant spurs and ravines and through scattering cedar and pinon timber

Subdivision of T.18 S.,R.6 E.

chains

and undergrowth of sagebrush.

.40 Wash, 30 lks. wide, 10 ft. deep, course, W.

Enter scattering shadscale and greasewood undergrowth, bears E. and W.

25.25 Enter scattering service berry brush, bears E. and W.

40.00 About level with 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 8 | S 9

1916

from which

A pinon, 16 ins.diam.,bears S.45°15'E.,208 lks. dist.,marked ¼ S 9 B T

A pinon, 25 ins.diam.,bears N.26°15'W.,227 lks. dist.,marked ¼ S 8 B T

80.00 15 ft. below ¼ sec. cor.

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 18 S | R 6 E

S 5 | S 4

S 8 | S 9

1916

from which

A pinon, 20 ins.diam.,bears S.54°E., 268 lks. dist., marked T 18 S R 6 E S 9 B T

A pinon, 14 ins.diam.,bears S.73°15'W.,817 lks. dist.,marked T 18 S R 6 E S 8 B T

A pinon, 16 ins.diam.,bears N.63°45'W., 874 lks. dist.,marked T 18 S R 6 E S 5 B T

No other trees available.

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

Land, mountainous, general W. exposure and drainage.

Soil, shallow brown sandy clay loam, mixed shales and

chains	
	sandstone rock on gravelly and rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush, scattering service berry, shad-scale, greasewood and grass.
	Land suitable for grazing.

	S.89°49'E., on a random line bet. secs. 4 and 9.
40.00	Set temp. ¼ sec. cor.
79.64	Intersect N. and S. line 5 lks. N. of the cor. of secs. 3,4,9 and 10.
	Thence
	N.89°47'W., on true line bet. secs. 4 and 9.
	Over mountainous land through scattering undergrowth of sagebrush and dense dry grass.
	Gradually ascend along N. slope.
15.00	Top of point, 75 ft. above sec. cor., falls N.
	Gradually descend along N. slope.
39.00	Enter small bench and dense undergrowth of sagebrush with scattering service berry, bears N.80°E. and S.80°W.
39.82	55 ft. below point at S. edge of bench.
	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 4 / S 9 / 1916
	from which
	A lone yellow pine, 30 ins.diam.,bears N.19°45'E. 580 lks. dist.,marked ¼ S 4 B T
	An aspen, 4 ins.diam.,bears S.52°15'E., 371 lks. dist.,marked ¼ S 9 B T
	Thence over bench at base of steep N. slope.
60.00	Begin descent over W. slope.
63.00	Descend abruptly over W. slope.
65.00	Enter scattering cedar and pinon timber, bears N. and S.
79.64	The cor. of secs. 4,5,8 and 9, 325 ft. below ¼ sec.cor.
	Land, mountainous, slopes and drains W. into Joe's

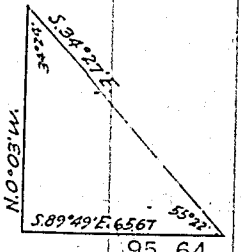
chains	
	valley on W. 20.00 chs.; remainder of mile slopes and drains N. into Straight canyon.
	Soil, brown sandy clay loam, mixed with gravel and rock of sandstone formation on loose clay and rocky sub-soil.
	Timber, scattering cedar and pinon in western portion of mile. Aspen and pine groves on both sides of line on eastern portion of mile.
	Undergrowth, sagebrush, scattering service berry and dry grass.
	Land, suitable for grazing.

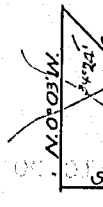
	N.0°03'W., on true line bet. secs. 4 and 5.
	Over mountainous land, gradually descending along W. slope through dense undergrowth of sagebrush and scattering service berry.
10.00	Begin gradual descent over NW. slope.
23.40	Enter scattering cedar, pinon and pine timber, bears E. and W.
	Descend more abruptly.
29.00	Enter dense pine and fir timber, bears E. and W.
	Begin very steep descent over N. slope into Straight canyon.
40.00	On steep N. slope, 515 ft. below 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 5 | S 4 1916
	from which
	A pine, 14 ins.diam.,bears S.33°15'E.,40 lks. dist.,marked ¼ S 4 B T
	A pine, 14 ins.diam.,bears N.71°45'W.,16 lks. dist.,marked ¼ S 5 B T

chains	
45.50	Descend abruptly over broken sandstone ledges, bears E. and W.
53.10	U.S.Forest Service Telephone line, bears E. and W.
55.00	Wagon road, Orangeville to Ephraim,Utah, bears E. and W.
59.50	Bottom of Straight canyon and Cottonwood creek, 45 lks. wide, 12 ins. deep, clear water, 595 ft.below ¼ sec. cor., course E.

Measurement of this line north is impossible on account of high ledges and breaks of canyon, I therefore triangulate as follows:

I place my instrument on line on top of ridge on N. side of canyon at a point N.0°03'W. of the cor. of secs. 4,5,8 and 9. A flag previously set S.89°49'E., 65.67 chs. from the cor. of secs. 4,5,8 and 9 bears S.34° 27'E.





Log 65.67 chs.	----------	1.817367
Log sin 55°22'	----------	9.915297
Cologsin 34°24'	----------	0.247977
	Log	1.980641 = 95.64 chs.

95.64 To point of triangulation, 1100 ft. above Straight canyon.

Note: The N. rim of Straight canyon bears S. about 10 chs. and bears NE. and SW.

Thence continue

N.0°03'W.

96.29 Intersect N. bdy. of the Tp. 15.67 chs. S.89°57'E. of the ½ sec. cor. on the S. bdy. of sec. 32, T.17 S., R.6 E. heretofore described.

At intersection,

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a mound of stone and earth on solid rock for closing cor. of secs. 4 and 5, with brass cap marked

T 17 S R 6 E
S 32

S 5	S 4
T 18S	R 6 E

CC
1916

from which

Subdivision of T.18 S.,R.6 E.

chains	
	A mahogany, 8 ins. diam.,bears S.38°45'E.,74 lks.dist.,marked C C T 18 S R 6 E S 4 B T
	A pinon, 8 ins.diam.,bears S.21°30'W.,107 lks. dist.,marked C C T 18 S R 6 E S 5 B T
	Land, mountainous, slopes and drains W. on S. 10 chs., thence steep N. and NW. slopes into Straight canyon to 59.50 chs. Balnce of mile steep ledges and S. slope into Straight canyon draining E.
	Soil, shallow brown sandy clay loam, mixed with gravel and sandstone rock on loosely packed clay and rocky sub-soil.
	Timber, cedar, pinon, pine, fir and a few aspen.
	Undergrowth, sagebrush, scattering service berry and grass.
	South portion of mile suitable for grazing.

	From the cor. of secs. 5,6,31 and 32 on the S. bdy. of the Tp. heretofore described.
	N.0°03'W., bet. secs. 31 and 32.
	Over rough mountainous land through scattering spruce, balsam fir, pinon and cedar timber and undergrowth of buck and sagebrush.
	Descend abruptly over N. slope.
4.30	Bottom of ravine and stream, 1 lk. wide, 1 in. deep, good water, 135 ft. below sec. cor., course NE.
	Leave balsam fir and spruce timber, bears E. and W.
	Ascend abruptly over S. slope.
11.50	Top of steep ascent, bears E. and W.
12.60	Ridge, 170 ft. above ravine, bears N.55°E. and S.55°W.
	Thence across nearly level top of ridge, enter scattering service berry brush, bears E. and W.
26.30	Leave ridge, bears E. and W.
	Descend abruptly over N. slope.
28.50	Bottom of ravine, 75 ft. below ridge, course from W. to SE.
	Ascend abruptly over S. slope.

chains

32.10 Top of steep ascent, bears E. and W. Ascend more gradually.

40.00 105 ft. above ravine,

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 31 | S 32

1916

from which

A pinon, 14 ins.diam.,bears N.86°45'E., 380 lks dist.,marked ¼ S 32 B T

A cedar, 8 ins.diam.,bears S.40°W., 290 lks. dist.,marked ¼ S 31 B T

44.70 Top of bench, 35 ft. above ¼ sec. cor., bears E. and W. Thence across bench.

58.60 Head of draw, drains NW. about 5 chs., thence N.

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 and 32, with brass cap marked

T 18 S | R 6 E
S 30	S 29
S 31	S 32

1916

from which

A pine, 8 ins.diam.,bears N.24°30'E., 186 lks. dist.,marked T 18 S R 6 E S 29 B T

A pine, 10 ins.diam.,bears S.51°15'W., 450 lks. dist.,marked T 18 S R 6 E S 31 B T

A red cedar, 9 ins.diam.,bears N.79°W.,280 lks. dist., marked T 18 S R 6 E S 30 B T

No other trees available.

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

Land, mountainous, general NE. exposure and drainage.

Soil, gray sandy clay loam mixed with gravel and limestone rock on moist sticky clay and rocky sub-soil.

Subdivision of T.18 S.,R.6 E.

chains	
	Timber, cedar, pinon, balsam fir and spruce.
	Undergrowth, sagebrush, scattering buck and service berry and grass.
	Land, suitable for grazing.

	East, on a random line bet. secs. 29 and 32.
40.00	Set temp ¼ sec. cor.
80.21	Intersect N. and S. line, 2 lks. S. of the cor. of secs. 28,29,32 and 33.
	Thence
	S.89°59'W., on true line bet. secs. 29 and 32.
	Over broken mountainous land through dense cedar and pinon timber and undergrowth of sagebrush and scattering service berry.
	Gradually descend along S. slope of ravine.
6.00	Ravine, 65 ft. below sec. cor., course N.80°W. about 50 lks. thence SW.
9.00	Same ravine, drains NW.
	Ascend abruptly.
12.00	Leave dense timber and enter dense undergrowth, bears NW. and SE.
	Gradually descend over nearly W. slope.
26.90	Begin steeper descent.
39.00	Wash, 70 lks. wide, 5 ft. deep, course NW.
40.10½	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 29 / S 32 / 1916 raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Continue gradual descent.
42.50	Old wagon road, bears N.30°E. and S.30°W.
49.30	Wash, in bottom of Joe's valley, 30 lks. wide, 4 ft. deep, course N.20°E., 45 ft. below ¼ sec. cor.
	Gradually ascend.
51.20	Begin steep ascent over E. slope. Enter scattering cedar

chains	
	and pinon timber, bears N. and S.
67.10	Top of steep ascent, bears N. and S.
	Ascend more gradually.
76.60	Top of ascent and edge of bench, bears N. and S. Leave timber bears with bench.
80.21	The cor. of secs. 29,30,31 and 32, 565 ft. above wash.
	Land, mountainous, general E. and W. slopes into Joe's valley wash which drains N.
	Soil, shallow brown and blue clay loam, mixed with grave loose shales and rock of sandstone and limestone formation on hard, dry clay and rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush, service berry and grass.
	Land suitable for grazing.

	West, on a random line bet. secs. 30 and 31.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
78.54	Intersect W. bdy. of the Tp. 6 lks. S. of the cor. of secs. 25,30,31 and 36 heretofore described.
	Thence
	S.89°57'E., on true line bet. secs. 30 and 31.
	Over mountainous land through scattering aspen, pine and fir timber and undergrowth of sagebrush, service berry and buck brush.
	Descend abruptly over general E. slope.
15.70	Base of steep descent and leave timber, bears NW. and SE.
	Thence along rolling N. slope.
21.50	Small swale, drains NE.
38.54	395 ft. below sec. cor.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in a mound of stone and earth on solid rock for $\frac{1}{4}$ sec. cor. with brass cap marked
	$\frac{1}{4}$ S 30 / S 31 / 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

Subdivision of T.18 S.,R.6 E.

chains	
	From this cor. a small lake about 5 chs. wide and 7 chs. long bears N. about 10.00 chs.
45.25	Top of wide ridge, bears NE. and SW.
	Gradually descend over E. slope.
70.15	Bottom of draw, 130 ft. below ridge, course N.
	Enter scattering pine, cedar and pinon timber, bears N. and S.
	Ascend abruptly over W. slope.
74.00	Top of steep ascent and edge of bench, bears N. and S.
	Thence across bench.
78.54	The cor. of secs. 29,30,31 and 32, 60 ft. above draw.
	Land, mountainous, general E. exposure and drainage.
	Soil, gray sandy clay loam, mixed with gravel and sandstone rock on hard, dry clay and rocky sub-soil.
	Timber, aspen, pine, fir, cedar and pinon.
	Undergrowth, sagebrush, service berry, buck brush and grass.
	Land suitable for grazing.

	N.0°03'W., bet. secs. 29 and 30.
	Over nearly level bench, through dense undergrowth of sagebrush, scattering service berry and buck brush.
2.00	Enter scattering pine and cedar timber, bears E. and W.
8.50	Begin gradual descent over N. slope. Enter pinon timber, bears E. and W.
25.80	Leave bench, bears E. and W.
	Descend abruptly over N. slope.
29.00	Draw,280 ft. below sec. cor., course from SW. to N.65°E.
	Ascend abruptly over S. slope.
30.60	Spur, 10 ft. above draw, projects E.
	Descend.
31.00	Bottom of draw, stream in same, 1 lk. wide, 1½ ins. deep, good water, course E., 15 ft. below spur.
	Ascend over S. slope 35 ft. to
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

Subdivision of T.18 S.,R.6 E.

chains	
	¼ / S 30 | S 29 / 1916
	from which
	A pinon,16 ins.diam.,bears S.46°30'E., 140 lks dist.,marked ¼ S 29 B T
	A cedar,10 ins.diam.,bears N.51°W., 207 lks. dist.,marked ¼ S 30 B T
	Continue ascent.
42.90	Spur, projects NE.
	Gradually descend over N. slope.
55.20	Descend abruptly over N. slope.
57.70	Bottom of draw and stream, 1 lk. wide, 1 in. deep, good water, 160 ft. below spur, course N.55°E.
	Ascend precipitous S. slope over broken limestone ledge
61.90	Top of steep ascent and ledges, bears N.55°E. and S.55°W
	Gradually ascend.
63.70	Top of bench, 145 ft. above draw, bears N.55°E. and S.55 W. Thence across bench.
71.50	Gradually descend over N. slope of bench, bears E. and SW.
80.00	65 ft. below top of bench.
	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 18 S | R 6 E / S 19 | S 20 / S 30 | S 29 / 1916
	from which
	A pinon limb, 10 ins.diam.,bears N.88°15'E.,264 lks.dist.,marked T 18 S R 6 E S 20 B T
	A pinon, 10 ins.diam.,bears S.80°15'E., 368 lks. dist., marked T 18 S R 6 E S 29 B T
	A fir, 14 ins.diam.,bears N.45°30'W.,140 lks. dist.,marked T 18 S R 6 E S 19 B T

Subdivision of T.18 S.,R.6 E.

chains	
	No other trees available.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, rough mountainous, general NE. exposure and drainage.
	Soil, gray sandy clay loam mixed with gravel and limestone rock, on hard, dry sandy clay and rocky sub-soil.
	Timber, pine, cedar and pinon.
	Undergrowth, service berry, sagebrush, buck brush and grass.
	Land suitable for grazing.

	N.89°59'E., on a random line bet. secs. 20 and 29.
40.00	Set temp. ¼ sec. cor.
80.28	Intersect N. and S. line at the cor. of secs. 20,21,28 and 29.
	Thence
	S.89°59'W., on true line bet. secs. 20 and 29.
	Over mountainous land through cedar and pinon timber and undergrowth of sagebrush, scattering service berry and buck brush.
	Descend abruptly over W. slope.
3.20	Dry wash in small gully, 10 lks. wide, 5 ft. deep, course N.70°W.
10.20	Descend more gradually over W. slope.
40.14	On W. slope in dense patch of cedar and pinon timber, 460 ft. below sec. cor.
	Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground on solid rock and 8 ins. in a mound of stone for ¼ sec. cor., with brass cap marked.
	¼ S 20 / S 29 / 1916
	from which
	A pinon, 10 ins.diam.,bears N.31°15'E., 41 lks. dist.,marked ¼ S 20 B T

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Subdivision of T.18 S.,R.6 E.

chains	
	A pinon, 14 ins.diam.,bears S.42°30'W.,72 lks. dist.,marked ½ S 29 B T
	Continue descent.
47.20	Old wagon road, bears NW. and SE.
47.40	Bottom of wash in Joe's valley, 50 lks. wide, 10 ft. deep, course from the S. to W.
	Thence in wash.
52.00	Wash turns N.
	Begin ascent over E. slope.
54.40	Wash, 50 lks. wide, 8 ft. deep, course NE.
62.00	Begin abrupt ascent over E. slope.
76.60	Top of steep ascent and edge of bench, 410 ft. above wash, bears N. and S.
	Ascend very gradually.
80.28	The cor. of secs. 19,20,29 and 30.
	Land, mountainous, slopes and drains E. and W. to wash in Joe's valley which drains N.
	Soil, shallow brown and gray sandy clay, mixed with gravel and limestone rock on sandy and rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush, service berry, buck brush and grass.
	Land suitable for grazing.

	N.89°57'W., on a random line bet. secs. 19 and 30
40.00	Set temp. ½ sec. cor.
78.41	Intersect W. bdy. of the Tp. 2 lks. N. of the cor. of secs. 19,24,25 and 30 heretofore described.
	Thence
	S.89°58'E., on true line bet. secs. 19 and 30.
	Over mountainous land through scattering cedar and pinon timber and undergrowth of sagebrush, service berry and buck brush.
	Descend abruptly over E. slope of mountain.
19.20	Begin more gradual descent.

Subdivision of T.18 S.,R.6 E.

chains	
38.41	On gradual E. slope 500 ft. below 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 19 / S 30 / 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	No suitable trees available.
	Continue gradual descent.
44.80	Bottom of draw and stream, 1 lk. wide, 1 in. deep, good water, 50 ft. below ¼ sec. cor., course at bend from NE. to SE.
	Gradually ascend.
49.10	Top of spur, 5 ft. above draw, projects SE. about 5 chs.
	Descend.
51.90	Begin steep descent, bears N. and S.
58.30	Bottom of ravine and stream, 2 lks. wide, 1 in. deep, good water, 175 ft. below spur, course N.20°E. about 6 chs., thence E.
	Ascend abruptly.
60.70	Point of spur, 90 ft. above ravine, falls N.
	Gradually descend along nearly N. slope.
61.50	Enter heavier timber, bears N. and S.
67.10	Descend abruptly over NE. slope.
69.50	Draw, 155 ft. below spur, course N.30°E.
	Leave dense timber, bears N. and S.
	Ascend abruptly over NW. slope.
72.00	Leave dense undergrowth, bears NE. and SW.
75.10	Point of spur, 145 ft. above draw, falls N.30°E.
	Leave timber, bears N. and S.
	Gradually descend 15 ft. to
78.41	The cor. of secs. 19,20,29 and 30.
	Land, mountainous, general NE. exposure and drainage.
	Soil,gray sandy clay loam mixed with gravel and sandstone rock on hard, dry sand and rock sub-soil.

Subdivision of T.18 S.,R.6 E.

chains	
	Timber, scattering cedar, pinon and fir.
	Undergrowth, service berry, buck brush and sagebrush with some grass.
	Land suitable for grazing.

	N.0°03'W., bet. secs. 19 and 20.
	Over rough mountainous land through scattering fir, cedar and pinon timber and undergrowth of sagebrush, service berry and buck brush.
	Descend abruptly over N. slope of bench.
8.40	Bottom of ravine and stream, 2 lks. wide, 1 in. deep, good water, 265 ft. below sec. cor., course N.60°E.
	Ascend precipitous S. slope over series of broken sandstone and limestone ledges bearing N.60°E. and S.60°W.
17.80	Top of ledges, bears S.60°W. and N.60°E. about 60 lks. thence N.
18.10	Spur, 180 ft. above ravine, projects N.60°E. about 60 lks.
	Descend along steep E. slope.
34.10	Point of ridge falls NE.
	Descend abruptly over N. slope.
40.00	190 ft. below spur.
	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 19 | S 20 1916
	from which
	A cedar,20 ins.diam.,bears S.81°45'E.,179 lks. dist.,marked ¼ S 20 B T
	A pinon, 10 ins.diam.,bears N.77°30'W.,100 lks. dist.,marked ¼ S 19 B T
49.50	Bottom of ravine and stream, 1 lk. wide, 1 in. deep, 150 ft. below ¼ sec. cor., course NE.
	Enter dense cedar and pinon timber, bears NE. and SW.

Subdivision of T.18 S.,R.6 E.

chains	
	Ascend abruptly over SE. slope.
59.00	Point of ridge, 90 ft. above ravine, falls NE.
	Descend abruptly over NE. slope.
60.60	Leave dense timber, bears E. and W.
68.80	Bottom of draw, 185 ft. below ridge, course N.55°E.
	Enter dense timber, bears NE. and SW.
	Gradually ascend over SE. slope.
73.70	Point of spur, 60 ft. above draw, falls, NE.
	Gradually descend along nearly E. slope.
78.00	Leave dense timber, bears E. and W.
80.00	On E. slope 40 ft. below spur.
	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 18 S | R 6 E
S 18	S 17
S 19	S 20

1916

from which

A cedar, 8 ins.diam.,bears N.55°30'E., 315 lks. dist.,marked T 18 S R 6 E S 17 B T

A pinon, 22 ins.diam.,bears S.37°30'E.,148 lks. dist.,marked T 18 S R 6 E S 20 B T

A pinon, 18 ins.diam.,bears S.14°45'W.,196 lks. dist.,marked T 18 S R 6 E S 19 B T

A pinon,16 ins.diam.,bears N. 59°15'W., 236 lks. dist.,marked T 18 S R 6 E S 18 B T

Land, rough, broken mountains, general E. exposure and drainage.

Soil, gray sandy clay loam, mixed with gravel and sandstone and limestone rock on hard, dry sand and rocky sub-soil.

Timber, cedar, pinon, and fir.

Undergrowth, sagebrush, service berry and buck brush.

Considerable grass good for grazing.

chains	
	N.89°59'E., on a random line bet. secs. 17 and 20.
40.00	Set temp. ¼ sec. cor.
80.26	Intersect N. and S. line 5 lks. S. of the cor. of secs. 16,17,20 and 21.
	Thence
	S.89°57'W., on true line bet. secs. 17 and 20.
	Over broken mountainous land through scattering cedar and pinon timber and undergrowth of sagebrush and scattering service berry.
	Gradually descend over W. slope.
20.40	Begin precipitous descent over sandstone ledges bears N. and S.
31.25	Base of steep descent and ledges, 390 ft. below sec. cor bears N. and S.
	Gradually descend.
34.20	Leave timber, bears N. and S.
37.10	Wash, 15 lks. wide, 5 ft. deep, course at bend from NE. to NW. Enter rolling valley, bears NW. and S.
40.13	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 17 / S 20 / 1916 raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
52.75	Wash, in bottom of Joe's valley, 50 lks. wide, 7 ft. deep, 25 ft. below ¼ sec. cor., course N. Wash forks about 10 chs. N. of line.
	Gradually ascend.
56.80	Old road, bears N. and S.
71.60	Leave valley and enter rough mountainous land and scatter- cedar and pinon timber, bears N. and S.
	Ascend abruptly over E. slope 165 ft. to
80.26	The cor. of secs. 17,18,19 and 20.
	Land, rough mountainous slopes and drains E. and W. into rolling valley in central portion of mile.
	Soil of mountainous land, rocky of sandstone formation

Subdivision of T.18 S.,R.6 E.

chains	
	on hard, dry clay and rock sub-soil. Soil of valley, rich sandy clay loam about 2 ft. deep, on sandy and gravelly sub-soil.
	Timber, cedar and pinon on eastern and western portions of mile.
	Undergrowth, sagebrush, scattering service berry and rabbit brush. Considerable grass.
	Land suitable for grazing.

	N.89°58'W., on a random line bet. secs. 18 and 19.
40.00	Set temp. ¼ sec. cor.
78.23	Intersect W. bdy. of the Tp. 5 lks. N. of the cor. of secs. 13,18,19 and 24 heretofore described.
	Thence
	East, on true line bet. secs. 18 and 19.
	Over mountainous land through sagebrush, scattering service berry and buck brush undergrowth.
	Gradually ascend from small basin.
4.25	Top of ridge and rim of basin, 15 ft. above sec. cor., bears N. and SW.
	Descend over broken E. slope.
35.00	Bottom of gulch and wash, 10 lks.wide, 5 ft. deep, 350 ft. below ridge, course N.60°E.
	Enter cedar, pinon, aspen, pine and fir timber and willow and birch undergrowth, bears NE. and SW.
	Ascend.
36.70	Low point, 15 ft. above gulch, projects N.60°E.
	Descend.
38.23	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked

$$\frac{\text{S 18}}{\text{S 19}}$$
1916

from which

A pine, 10 ins.diam.,bears N.36°W., 23 lks. dist.,marked ¼ S 18 B T

Subdivision of T.18 S.,R.6 E.

chains	
	A pine, 6 ins.diam.,bears S.15°30'W.,43 lks. dist.,marked ½ S 19 B T
41.45	Wash, 7 lks. wide, 4 ft. deep, stream in same, 2 lks. wide, 3 ins. deep, good water, 35 ft. below ¼ sec. cor., course NE.
43.25	Leave aspen timber and birch and willow undergrowth, bears NE. and SW.
	Ascend abruptly SW. slope.
50.55	Spur, 105 ft. above stream, projects NE.
	Gradually descend.
53.75	Descend abruptly.
58.60	Ravine, 55 ft. below spur, course NE.
	Leave pine timber and service berry undergrowth, bears NE. and SW.
	Ascend 15 ft. to
61.45	Spur, projects NE.
	Gradually descemd.
69.75	Begin steep descent over E. slope.
78.23	The cor. of secs. 17,18,19 and 20, 320 ft. below spur.
	Land, rough mountainous with general E. and W. slopes into ravines draining NE.
	Soil, brown sandy clay loam, mixed with gravel, limestone and sandstone rock on sub-soil of hard, dry clay and rocks.
	Timber, cedar, pinon, aspen, pine and fir
	Undergrowth, sagebrush, service berry, buck brush, willow, birch and grass.
	Land suitable for grazing.

	N.0°03'W., bet. secs. 17 and 18.
	Over rough mountainous land through scattering cedar, pinon and fir timber and undergrowth of sagebrush, scattering service berry and buck brush.
	Gradually descend along broken E. slope.
10.00	Enter dense cedar and pinon timber and mahogany undergrowth bears E. and W.

Subdivision of T.18 S.,R.6 E.

chains

18.70 Leave dense timber and mahogany undergrowth, bears E. and W.

26.30 Bottom of draw and stream, 2 lks. wide, 2 ins. deep, clear water, 125 ft. below sec. cor., course from the W. to NE.

Ascend abruptly over S. slope.

28.50 Spur, 55 ft. above draw, projects E. about 5 chs.

Gradually descend over N. slope 95 ft. to

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

$\frac{1}{4}$

S 18 | S 17

1916

from which

A yellow pine, 24 ins.diam.,bears S.10°15'E., 140 lks.dist.,marked $\frac{1}{4}$ S 17 B T

A pinon, 24 ins.diam.,bears N.33°45'W., 218 lks.dist.,marked $\frac{1}{4}$ S 18 B T

40.40 Wash, in bottom of draw, 12 lks. wide, 5 ft. deep, course at bend from NW. to S.50°E.

Ascend abruptly over SE. slope.

46.20 Point of spur, 90 ft. above draw, falls E.

Gradually descend over NE. slope 70 ft. to

80.00 At base of mountain and W. edge of Joe's valley, bears N.20°W. and S.20°E.

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 18 S | R 6 E
S 7 | S 8

S 18 | S 17

1916

from which

A cedar, 5 ins.diam.,bears N.25°45'E.,535 lks. dist.,marked T 18 S R 6 E S 8 B T

A yellow pine, 24 ins.diam.,bearsS.13°45'W.,

chains	
	434 lks.dist.,marked T 18 S R 6 E S 18 B T
	A pinon, 9 ins.diam.,bears N.64°45'W.,231 lks. dist.,marked T 18 S R 6 E S 7 B T
	No other trees available.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, rough mountainous, general E. exposure and drainage
	Soil, gray sandy clay loam mixed with gravel and sandston rock on hard, dry clay and rocky sub-soil.
	Timber, cedar, pinon, scattering pine and fir.
	Undergrowth, sagebrush, scattering service berry, buck brush and grass.
	Land suitable for grazing.

	N.89°57'E., on a random line bet. secs. 8 and 17.
40.00	Set temp. ¼ sec. cor.
80.25	Intersect N. and S. line 5 lks. N. of the cor. of secs. 8,9,16 and 17.
	Thence
	S.89°59'W., on true line bet. secs. 8 and 17.
	Over mountainous land through scattering cedar and pinon timber and undergrowth of sage and rabbit brush.
	Descend abruptly over W. slope.
14.55	Enter dense cedar and pinon timber, bears N. and S.
22.20	Brink of mountain, bears N. and S.
	Descend abruptly over sandstone ledges.
35.90	Base of mountain, 830 ft. below sec. cor., bears N.20°W. and S.20°E.
	Thence across rolling valley.
40.12½	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in a mound of stone on solid rock for ¼ sec. cor., with brass cap marked
	¼ S 8 / S 17 / 1916
	from which

Subdivision of T.18 S.,R.6 E.

chains	
	A pinon, 15 ins.diam.,bears S.2½°E., 108 lks. dist.,marked ¼ S 17 B T
	A pinon,16 ins.diam.,bears N.0°45'E.,76 lks. dist.,marked ¼ S 8 B T
42.80	Leave timber, bears N. and S.
69.70	Wash, in bottom of Joe's valley, 80 lks. wide, 8 ft. deep,155 ft. below ¼ sec. cor., course NW. about 5 chs., thence N.
	Gradually ascend over E. slope
74.40	Old wagon road, bears N.20°W. and S.20°E.
80.25	The cor. of secs. 7,8,17 and 18, 60 ft. above wash.
	Land, rough mountainous general W. exposure and drainage on E. 35.90 chs.; remainder of mile rolling valley, slopes E. and W. to wash which drains N.
	Soil, gravelly, rocky and dry brown sandy clay loam on hard, dry clay and rocky sub-soil.
	Timber, cedar and pinon/
	Undergrowth, sage and rabbit brush. Good grass.
	Land suitable for grazing.

	West, on a random line bet. secs. 7 and 18.
40.00	Set temp. ¼ sec. cor.
78.03	Intersect W. bdy. of the Tp. 5 lks. N. of the cor. of secs. 7,12,13 and 18 heretofore described.
	Thence
	N.89°58'E., on true line bet. secs. 7 and 18.
	Over mountainous land through scattering cedar and pinon timber and undergrowth sagebrush, scattering service berry and buck brush.
	Gradually descend along geheral N. slope.
36.10	Begin abrupt descent over E. slope.
38.03	195 ft. below 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

Subdivision of T.18 S.,R.6 E.

chains	
	$\frac{S\ 7}{\frac{1}{4}\ S\ 18}$ 1916
	from which
	A red cedar, 7 ins.diam.,bearsN.32°15'E.,116 lks dist.,marked $\frac{1}{4}$ S 7 B T
	A pine, 26 ins.diam.,bears S.78°30'E., 304 lks. dist.,marked $\frac{1}{4}$ S 18 B T
43.00	Bottom of draw, 25 ft. below $\frac{1}{4}$ sec. cor., course from S. to NE.
	Gradually ascend.
53.30	Spur,45 ft. above draw, projects N.25°W.
	Gradually descend.
59.60	Bottom of draw, 70 ft. below spur, course N.25°W.
	Ascend abruptly.
63.00	Ridge, 75 ft. above draw, bears N.25°W. and S.25°E.
	Descend abruptly over E. slope.
78.03	The cor. of secs. 7,8,17 and 18, 270 ft. below ridge.
	Land, mountainous, general NE. exposure and drainage.
	Soil, brown sandy clay loam, mixed with gravel and rock on hard, dry sand and rocky sub-soil.
	Timber, cedar, pinon and pine.
	Undergrowth, sagebrush, service berry and buck brush.
	Considerable grass good for grazing purposes.

	N.0°03'W., bet. secs. 7 and 8.
	Over rolling valley through dense undergrowth of sage and rabbit brush.
	Gradually descend over gentle NE. slope.
27.70	Old wagon road, bears N.20°W. and S.20°E.
40.00	50 ft. below sec. cor.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{\frac{1}{4}}{S\ 7 \mid S\ 8}$ 1916
	from which

Subdivision of T.18 S.,R.6 E.

chains

A cedar, 6 ins. diam.,bears S.80°W.,530 lks. dist.,marked ¼ S 7 B T

No other trees available.

Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.

66.40 Wire fence, bears E. and W. From this point, the S. end of a sheep corral bears W. about 4 chs.

68.70 Wash, 40 lks. wide, 10 ft. deep, stream in same, 3 lks. wide, 2 ins. deep, course from NW. to E.

70.70 N. end of sheep corral bears W. about 4 chs.

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 18 S S 6	R 6 E S 5
S 7	S 8

1916

dig pits, 18 x 18 x 12 ins. in each sec., 5 ft. dist.

Land, rolling valley, drains N.

Soil, shallow brown and blue clay loam mixed with gravel on sandy clay sub-soil. Soil very sticky when wet.

Timber, a few scattering cedar on W. side of line in S. ½ mile.

Undergrowth, sagebrush, rabbit brush and greasewood.

Land suitable for grazing.

N.89°59'E., on a random line bet. secs. 5 and 8.

40.00 Set temp. ¼ sec. cor.

80.29 Intersect N. and S. line 5 lks. S. of the cor. of secs. 4.5.8 and 9.

Thence

S.89°57'W., on true line bet. secs. 5 and 8.

Over rough mountainous land through dense undergrowth of sagebrush, scattering service berry and buck brush.

Gradually descend over W. slope.

Subdivision of T.18 S.,R.6 E.

chains	
9.00	Enter dense cedar and pinon timber, bears N.25°W. and S.25°E.
12.90	Leave dense timber, bears N. and S.
17.00	Begin steep descent over W. slope into Joe's valley. Enter dense timber, bears N. and S.
37.00	Top of sandstone ledge, about 70 ft. high, bears N. and S.
40.14½	On steep W. slope, 740 ft. below 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 S 5 ¼ S 8 1916 from which A pinon,10 ins.diam.,bears N.48°30'E., 36 lks. dist.,marked ¼ S 5 B T A pinon, 8 ins.diam.,bears S.34°45'E.,9 lks dist.,marked ¼ S 8 B T
48.60	Base of mountain and east side of Joe's valley, bears N.20°E. and SW. Wash, 20 lks. wide, 6 ft. deep, course NW. Leave timber, bears N. and SW.
	Thence over rolling land.
59.60	Wash, 1 ch. wide, 6 ft. deep, stream in same, 3 lks. wide 2 ins. deep, good water, course NE. about 10 chs., thence N.
72.20	Old wagon road, bears NE. and SW.
80.20	The cor. of secs. 5,6,7 and 8.
	Land, rough mountainous, slopes and drains W. on E. 48.00 chs.; remainder of mile rolling land.
	Soil, mountainous land, rocky of sandstone formation on rocky sub-soil. Soil of valley, rich brown sandy clay on dry sandy clay sub-soil.
	Timber, cedar and pinon on E. 48.00 chs.
	Undergrowth, sagebrush, scattering service berry, buck brush, rabbit brush, greasewood and grass.
	Good grazing land.

Subdivision of T.18 S.,R.6 E

chains	
	S.89°58'W., on a random line bet. secs. 6 and 7.
40.00	Set temp. ¼ sec. cor.
77.98	Intersect W. bdy. of the Tp. 2 lks. N. of the cor. of secs. 1,6,7 and 12 heretofore described.
	Thence
	N.89°57'E., on true line bet. secs. 6 and 7.
	Over mountainous land through scattering cedar, pinon and fir timber and undergrowth of sagebrush, service berry and buck brush.
	Gradually descend over E. slope.
7.50	Descend abruptly over E. slope.
9.40	Descend more gradually over E. slope.
23.00	Base of mountain and west side of Joe's valley, bears NW. and S. Leave timber and service berry and buck brush undergrowth, bears NW. and S.
	Thence over rolling land.
33.90	Pole fence, bears N. and S.
37.98	295 ft. below 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 6 / S 7 / 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
51.00	Wash, 15 lks. wide, 4 ft. deep, course NE.
68.50	Pole fence, bears N. and S.
77.98	The cor. of secs. 5,6,7 and 8, 85 ft. below ¼ sec. cor.
	Land, rolling mountainous and valley, general E. exposure and drainage.
	Soil, shallow brown sandy clay and rocky on rocky sub soil in mountains; deep, moist sandy brown clay loam and gravel on sandy sub-soil in valley.
	Timber, scattering cedar and pinon with some fir on W. 23.00 chs.
	Undergrowth, sagebrush, rabbit brush and grass in valley;

chains	
	service berry, buck and sage brush in mountains.
	Land suitable for farming on E.54.98 chs.

	N.0°03'W., on true line bet. secs. 5 and 6.
	Over rolling valley, through dense undergrowth of rabbit brush.
29.50	Wash, 10 lks. wide, 2 ft. deep, course NE.
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 6 | S 5 1916 dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.
42.90	Wash, 15 lks. wide, 5 ft. deep, course E. about 10 chs., thence NE.
52.10	Pole fence, bears E. and W.
	Enter dense sagebrush, bears E. and W.
64.10	U.S.Forest Service Telephone line, bears E. and W.
65.80	Road, Orangeville to Ephraim, Utah, bears E. and W.
69.30	Cottonwood creek, 36 lks. wide, 12 ins. deep, good clear water, 35 ft. below ¼ sec. cor., course E.
	Scattering cottonwood timber along creek.
	Enter scattering pine timber, bears E. and W.
	Ascend abruptly over S. slope.
76.70	Pole fence and leave timber, bears E. and W.
78.30	Ridge, 80 ft. above creek, bears N.60°W. and S.60°E.
	Gradually descend over N. slope.
92.00	Draw, 15 ft. below ridge, course S.50°E.
	Asc. 15 ft. to
96.31	Intersect N. bdy. of the Tp. 15.34 chs., N.89°57'E., of the ¼ sec. cor. on the S. bdy. of sec. 31,T.17 S.,R.6 E. heretofore described.
	At intersection,
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in

Subdivision of T.18 S.,R.6 E.

the ground for closing cor. of secs. 5 and 6, with brass cap marked

T 17 S R 6 E
S 31

S 6 | S 5
T 18 S | R 6 E
CC
1916

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

Land, rolling valley, drains E.

Soil, brown sandy clay mixed with gravel and streaked with rock on hard, dry sandy clay sub-soil.

Timber, pine and some cottonwood.

Undergrowth, sagebrush, rabbit brush and grass.

Land suitable for grazing or farming.

Boundaries of T.18 S.,R.6 E.

Lines designated	True bearing	Distances	Latitudes N.	Latitudes S.	Departures E.	Departures W.
W,bdy.T18SR6E.	North	496.23	496.23	.....	.....	.....
N.bdy.T18SR6E.	N.89°46'E.	62.66	.25	.....	62.66	.....
"	N.89°57'E.	40.05	.03	.....	40.05	.....
"	N.89°55'E.	39.95	.06	.....	39.95	.....
"	S.89°57'E.	39.79	.....	.03	39.79	.....
"	N.89°58'E.	39.81	.02	.....	39.81	.....
"	S.89°57'E.	39.82	.....	.03	39.82	.....
"	S.89°57'E.	39.84	.....	.03	39.84	.....
"	N.89°56'E.	40.00	.05	.....	40.00	.....
"	S.89°59'E.	39.96	.....	.01	39.96	.....
"	N.89°58'E.	39.93	.02	.....	39.93	.....
"	S.89°28'E.	39.41	.....	.37	39.41	.....
"	S.88°56'E.	17.15	.....	.32	17.15	.....
E.bdy.T.18SR6E.	South	495.38	.....	495.38	.....	.....
S.bdy.T18SR6E	N.89°58'W.	240.00	.14	.....	.....	240.00
"	S.89°54'W.	39.75	.....	.07	.....	39.75
"	N.89°55'W.	39.88	.06	.....	.....	39.88
"	S.89°59'W.	39.98	.....	.01	.....	39.98
"	West	40.10	.....	.....	.....	40.10
"	West	39.96	.....	.....	.....	39.96
"	West	38.62	.....	.....	.....	38.62
Convergency			.....	.....	.59	.....
Totals			496.86	496.25	478.46	478.29
			496.25		478.29	
Error in latitudes			.61			
Error in departure					.17	

General Description T.18 S.,R.6 E.

This township is generally rough and mountainous and is situated on the E. slope near the east edge of a break of mountain to Castle valley. Through secs. 1,2,3,4,5 and 12 is a deep canyon which carries drainage from 30 miles north, 12 miles west and 6 miles south into Castle valley to the east, this also forms the water supply for the greater part of Castle Valley. The junction of all these points of drainage is in sec.5 and from here a high ledge rim runs north and south and forms the east boundary of Upper and Lower Joe's valleys. From the junction of points of drainage, Straight canyon runs east and is generally cut in solid sandstone ranging from 1000 to 1500 ft. in depth. Small box canyons drain N. and S. into this canyon. Secs. 10,13,14,15,22,23,24,25,26,26,34,35,36 and a portion of secs. 3,4,9,11,16,21,28 and 33 are situated on a high plateau whose surface is generally rolling and drains to the North and whose highest point or "Cap" is situated in secs. 26 and 27. This Cap is very prominent, rising abruptly to an elevation of about 500 ft. from the top of the plateau. All of the above lands are situated on what is called "The Horn". North of Straight canyon in secs. 1,2,3,4 and 5 is also a rolling bench or plateau but is very broken by ravines draining S. into Straight canyon. West of Horn mountain in secs. 5,6,7,8,17,18,19,20,29,30,31 and 32 is a narrow valley called Lower Joe's valley. The widest portion of this valley is in secs. 5 and 6, the remaining part is quite narrow, rough and broken. The soil in secs. 5 and 6 is a rich brown clay loam about 3 ft. deep, mixed with considerable gravel. The soil of the remaining part of the township is generally a brown and blue clay loam, mixed with gravel and sandstone and limestone rocks. The sub-soil is very hard, dry and rocky. On the slopes of ridges and canyons the soil is very rocky.

General description T.18 S.,R.6 E.

Valuable fir and pine timber is found on the top of the Cap on Horn mountain and in the southwestern portion of the township. With the timber are also patches of dense aspen. The north side of Straight canyon, the slopes of said canyon and on the west slopes of Straight canyon dense scrub cedar and pinon timber is found. Sagebrush undergrowth with some service brush and buck brush grows abundantly throughout the township. The soil of theentire township supports a growth of rich grasses which are excellent for grazing.

The township is well watered by Cottonwood creek and its tributaries, together with numerous small springs and seeps. The water is of good quality.

The elevation of the township ranges from 5000 ft. in the NE. cor. to 8000 ft. in the SW. part of the township. General exposure is to the east.

In secs. 5 and 6 there is a tract of land containing about 500 acres which is suitable for farming. Fences at one time were built about this tract but are now in a dilapidated condition. A log cabin 12 x 16 ft. not habitable is situated in sec. 5. About 10 chs. NE. of cabin is a lumber shanty 12 x 12 ft. which is built over a spring of good water about 3 ft. in dia. and flows a stream 4 lks. wide and 3 ins. deep. About $3000.00 improvements have been made on this place at some previous time.

The remains of an old saw mill site are situated in sec. 22.

In Straight canyon in secs. 1,12, 2,11, 3 and 10, I find numerous indications of bituminous coal. The Black Diamond coal mine in the NW.¼ of sec. 12 is now operating. The lower portal or chute of this mine is situated at the base of a sandstone ledge. This chute runs through a sandstone ledge on an incline of about 50° to the top,of the ledge to the main tunnel

and entrance of mine which is 10 ft. high and 6 ft. wide. This tunnel occupies the position of a seam of coal, the thickness of which is the height of the tunnel, the width cannot be obtained. The tunnel runs on a very gradual dip following coal seam and from my investigation is about 300 ft. long. The coal is of a very good quality. East about 40 ft. from the entrance to this mine is another coal prospect hole 12 ft. wide and 7 ft. wide and extends north about 100 ft. A lumber cabin, 12 x 12 ft. is built about 5 chs. S. of the coal mine and is constructed of rough lumber.

The Oliphant mine in the NE.¼ of sec.11, the tunnel of which opens to the south and is about 15 ft. wide and 8 ft. high. The coal seam in this mine is about 50 ft. lower than the one in the Black diamond mine and extends in a northerly direction.

A prospect tunnel about 300 ft. east of the Oliphant mine is 10 ft. wide and 6 ft. high and extends north about 75 ft.

From the positions of the coal seams at the Black Diamond and Oliphant coal mines it is evident that a large deposit of coal underlies the mountain on the N. side of Straight canyon. On the S. side of Straight canyon, coal prospects have not been made but from indications of shales it is evident that the same coal strata which is on the north side of the canyon also follows the south side at the same level. I recommend that secs. 1,2,11 and 12 be set aside for coal.

There are no bonafide settlers living in this township.

The surface lands of this township are suitable for grazing.

We find no other indications of mineral in the township.

Water locations T.18 S.,R.6 E.

Sec. 2, NE¼ of NW¼
Sec.3, SE¼ of SE¼ : W½ of SE¼ ; NW¼ of SW¼ : S½ of NW¼ and NE¼ of NW¼
Sec. 4; N½.
Sec.5 ; N½ and E½ of SW¼
Sec.6 ; W½ and N½ of NE¼
Sec.7 ; W½ of SW¼ and NE¼ of NE¼
Sec.8; NW¼ of NW¼
Sec10; NE¼ of NE¼; SE¼ of NE¼ ; N½ of SE¼ and SW¼ of SE¼ S½ of SW¼
Sec.11; N½/
Sec.12, N½.
Sec.14; NE¼ of SE¼
Sec.15; NW¼ of NW¼;
Sec.16; E½ of NE¼ ; SE¼ ; SW¼ of NW¼
Sec.18: NE¼ ; SW¼ of NW¼
Sec.19; N½ ; SW¼ ; S½ of SE¼
Sec.21; E½ of NE¼ and E½ of SE¼
Sec.22; W½ of SW¼
Sec.24; SE¼ of SW¼
Sec.25; NE¼ of NW¼
Sec.30; NE¼; S½ of NW¼; SW¼ of SE¼; SE¼ of SW¼
Sec.31; SE¼ of SE¼
Sec.32; SW¼ of SW¼
Sec.36; W½ of NW¼

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Page

4—GSO

BOOK A-432

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.

6—2764

CERTIFICATE

FINAL ~~OATH~~ OF UNITED STATES SURVEYOR. & TRANSITM

We Lyman E. Bolinger U.S.Transitman and certify on honor
~~I,~~ Howard W. Miller, 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 ~~Ma~~30th. day of March, 1916, I have well, faithfully, and trul
in our 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 Retrace-
ment of the south boundary, retracement and survey of the north
boundary, survey of the east and west boundaries and subdivision
of T.18 S.,R.6 E.
of the Salt Lake
Base and Meridian, in the State of Utah, which are represented
and date diagram on page 1
the foregoing field notes as having been executed by ~~me~~ us, and under ~~my~~ our direction, and ~~I~~ we do furth
certify on honor ~~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.

March 5,1917.

Howard W. Miller
U. S. Surveyor.

Lyman E. Bolinger
U.S.Transitman.

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 18, 191 8

The foregoing field notes of the ~~survey of~~ retracement of the south boundary,
retracement and survey of the north boundary and survey of the east
and west boundaries and subdivision of Township No. 18 South, Range
No. 6 East of the Salt Lake Base and Meridian, Utah,

executed by Howard W. Miller and Lyman E. Bolinger
under ~~his~~ special instructions dated March 30, 191 6, having beer
critically examined, and the necessary corrections and explanations made, the said field notes, and the
retracements and
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.

6--2761

U. S. Surveyor General.

4—070

BOOK A-432

B.

U. S. Surveyor General's Office
APR 18 1917
SALT LAKE CITY, UTAH

FIELD NOTES

RETRACEMENT
OF THE ~~SURVEY OF THE~~

RESURVEY AND SURVEY OF THE NORTH

BOUNDARY AND SUBDIVISION OF

T. 18 S., R. 7 E.

Of the SALT LAKE BASE AND *Meridian,*

In the State of UTAH

EXECUTED BY

Howard W. Miller, U. S. Surveyor

and

Lyman F. Bolinger, U. S. Transitman

In the capacity of U. S. Surveyor, under instructions dated March 30, 1916, *issued by the United States Surveyor General to govern surveys included in Group No.* 56, *which were approved by the Commissioner of the General Land Office,* April 19, 1916.

Assignment instructions dated September 8, 1916.

Survey commenced November 11, 1916

Survey completed November 25, 1916

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Assistants employed in the survey of T.18 S.,R.7 E.

Carl Ray	chainman
William Fredricksen	chainman
Edward Nelson	chainman
Edward Jones	chainman
Harry Fox	cornerman
Frank Romney	cornerman
Floyd Gardner	flagman
Hyrum Danielson	flagman

Examinations Classified

A Plat F.B.J. Notes H.F.B. V.I.F.

B Computations H.P.

Comparing

C Plat V.I.F. Notes H.F.B.

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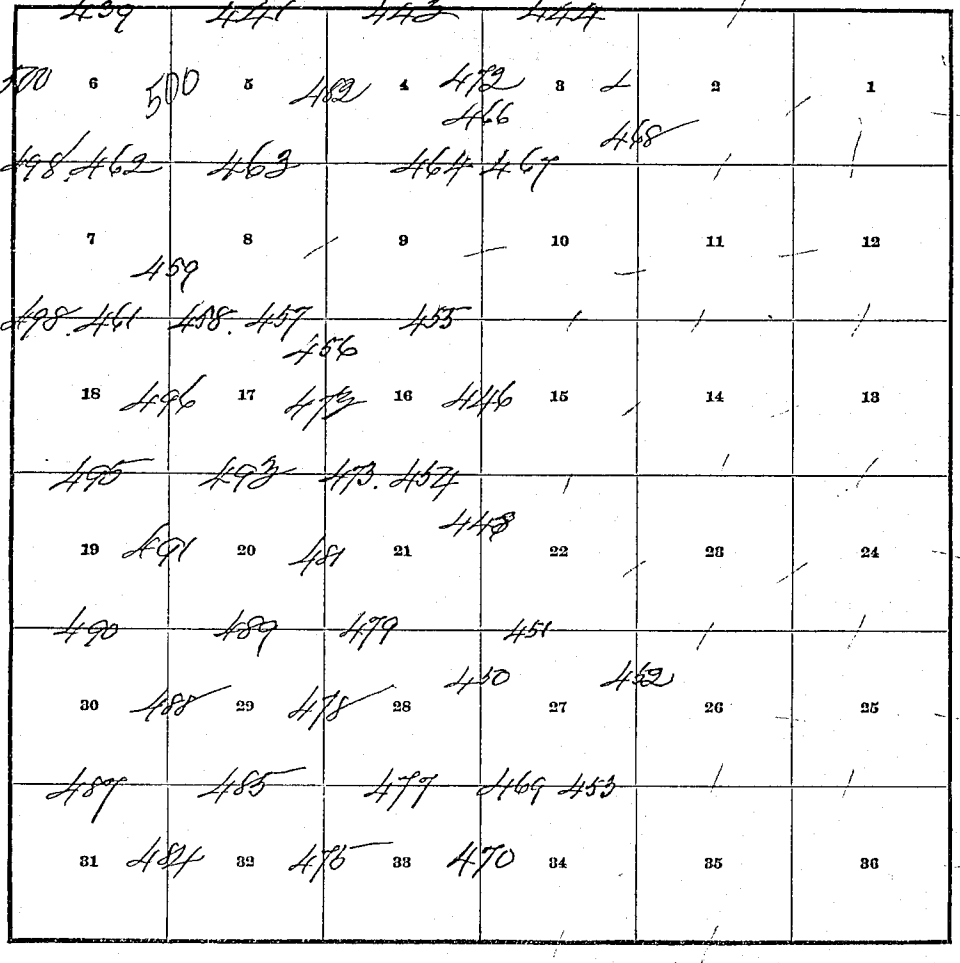
INDEX DIAGRAM.

Township 18 S, Range 7 E



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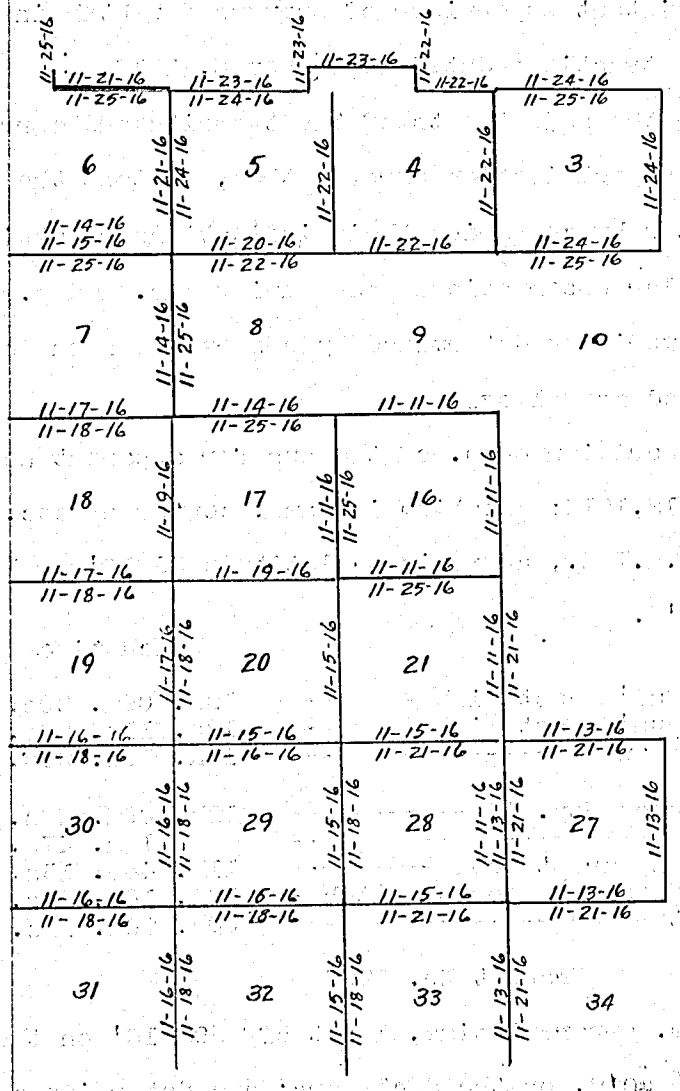
Resurvey and survey of the N.bdy. T.18 S.,R.7 E.

DATE DIAGRAM OF T.18 S.,R. 7 E.



Lines dated and colored with black ink were surveyed by Howard W. Miller, U. S. Surveyor.

Lines dated and colored with red ink were surveyed by Lyman E. Bolinger, U. S. Transitman.

Resurvey and survey of the N.bdy. T.18 S.,R.7 E.

chains

Survey commenced November 11,1916 and executed with Young and Sons light mountain transits Nos. 8297 and 8582, equipped with Smiths solar attachment and full vertical circles. The horizontal limbs 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 lat. and decl. arcs and vertical circles.

The instruments were approved for use in this survey by the assistant supervisor of surveys for Utah in assignment instructions dated September 8, 1916.

I examine the adjustments of the transits and correct the level and collimation errors, then, to test the solar apparatus by comparing their 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:

Meridian obsn. of the sun for apparent noon.

November 12,1916: Station in camp, center of sec. 9, T.18 S.,R.7 E., approximate latitude 39°16'N., longitude 111°10'W.

	Watch time
Sun's west limb	12h. 09m. 20s.
Sun's east limb	12h. 11m. 28s.
Mean	12h. 10m. 24s.
Apparent noon Nov. 12	12h. 00m. 00s.
Sun fast	15m. 47s.
L.m.t. of apparent noon	11h. 44m. 13s.
L.m.t.of apparent noon by watch	12h. 10m. 24s.
Watch fast	00h. 26m. 11s.

Transit No. 8297

At 8h. a.m. apparent time, I set off 39° 16' on the lat. arc; 17° 40'S. on the decl. arc; and determine a meridian with the solar and note that a tree about 1 mile distant bears North.

At this station I set off 17° 45'S., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39°16'.

At 3h. p.m. apparent time, I set off 39°16' on the lat.

chains

arc; 17° 42'S., on the decl. arc; and determine a meridian with the solar and find that the tree bears N.0°01'W.

Note: At the same hours and with the same latitude and declination settings on the arcs of transit No. 8582, transitman Bolinger determines meridians with the solar and finds that the tree bears North and that the resulting lat. at noon is 39°16'.

November 12,1916.

Cloudy skies and late arrivals in camp at night prevent observing Polaris until November 22, on which date at 5h. 08m.p.m. by my watch which is 26m. 11s. fast of l.m.t., I begin to observe Polaris and note as reference point the tree noted November 12.

	Tree	Star	Watch time.
	Telescope direct		
	0° 00' 00"	1° 23' 00"E.	5h. 08m. 00s.p.m.
	0° 00' 00"	1° 23' 00"E.	5h. 08m. 35s.p.m.
	Telescope reversed		
	0° 00' 00"	1° 23' 00"E.	5h. 09m. 10s.p.m.
	0° 00' 00"	1° 23' 00"E.	5h. 09m. 40s.p.m.
Mean.	0° 00' 00"	1° 23' 00"E.	5h. 08m. 51s.p.m.

Watch fast	0h. 26m. 11s.
L.m.t. of. obsn. Nov. 22	4h. 42m. 40s.p.m.
U.C. Pol. Nov. 22,1916	9h. 24m. 54s.p.m.
Corrected for long. 111° 10"	1m. 12s.
L.m.t. of U.C.Pol. at station	9h. 23m. 42s.p.m.
Hour angle of Pol. at obsn.	4h. 41m. 02s.
E. azimuth of Polaris	1° 23' 00".
Subtract from	1° 23' 00".
Tree bears	North.

The solar apparatus of both transits define positions for meridians that do not vary more than one minute from the true meridian, I therefore conclude that the instruments are in good adjustment.

The magnetic bearing of the true meridian at 3h. p.m. is N.16°35'W., the angle thus determined gives the magnetic decl. 16° 35'E.

November 22,1916.

The transits were kept in good adjustment during the

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progress of the survey having tested them frequently on the true meridian established by observation on Polaris.

Measurements

Steel tapes, 5 chs. long, together with clinometers for determining slope angles were used by both parties in the field. The tapes were tested, comparison being made with a standard tape, 1 ch. long, kept and used for that purpose only.

The closing cor. of Tps. 17 and 18 S.,R. 7 E. is a sandstone, 10 x 8 x 15 ins. above ground, firmly set, properly marked and witnessed by one bearing tree SE. of cor. The NE. bearing tree is dead and decayed. I destroy notches on S. face of stone, also the CC and Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for SW. cor. of T.17 S.,R.7 E., with brass cap marked

T 17 S
S 31
R 7 E

1916

from which

A pinon, 10 ins.diam.,bears N.12¼°E., 26 lks. dist.,marked T 17 S R 7 E S 31 B T

A pinon, 10 ins.diam.,bears N.81½°E., 62 lks. dist.,marked T 17 S R 7 E S 31 B T.

From cor.,

North

6.68 Intersect the SE. cor. of T.17 S.,R.6 E. heretofore described.

From the SW. cor. of T.17 S.,R.7 E.,

East, retracing along the S. bdy. of sec. 31

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chains	
8.30	A point facing two bearing trees as follows:
	A pinon, 5 ins.diam.,bears N.22½°W.,46 lks. dist.,marked ½ S 31 B T
	A pinon, 6 ins.diam.,bears S.36½°E., 48 lks. dist.,marked ½ S 6 B T
	I am unable to find any marked stone.
10.46	Intersect the ½ sec. cor., which is a sandstone, 12 x 9 x 5 ins. above ground, firmly set and properly marked. No accessories to cor.
	The bearing of this ½ mile is east and the distance is 10.40 chs.
	From ¼ sec. cor., I continue
	East
50.46	No trace of the cor. of secs. 5,6,31 and 32 can be found. Set temp. sec. cor.

	From temp. cor. of secs. 5,6,31 and 32.
	East, retracing along the S. bdy. of sec. 32.
40.96	Fall 9 lks. N. of the ½ sec. cor. which is a stationary sandstone boulder, 32 x 24 x 8 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	The bearing of the line bet. the ½ sec. cor. on the S. bdy. of sec. 31 and this ½ sec. cor., is S.89°56'E. and the proportionate distance for each ½ mile is 40.48 chs.
	From ½ sec. cor., I run
	East
20.43	Intersect the witness cor. to cor. of secs. 32 and 33 which is a sandstone, 8 x 20 x 4 ins. lying on the ground, properly marked and witnessed.
	The bearing of this fractional ½ mile is East.
	It beingimpossible to continue east from this cor. on account of im_passable ledges and break of mountain, I offset as follows:

chains	
	N.0°03'W., 17.05 chs.
	Note: It is impossible to limit this offset to 13.00 chs. as reported in the old notes as the mountain east is impassable.
	East, 19.57 chs. to
40.00	No trace of witness cor. to secs. 32 and 33 can be found. Impossible to reach offset line 13.00 chs. north of true line as reported in the old notes.
	Set temp. sec. cor.

	From temp. cor. of secs. 32 and 33
	East, on offset line along S. bdy. of sec. 33, 33.65 chs.
	thence S.0°03'E., 17.05 chs. to
33.65	Intersect the witness cor. to the ¼ sec. cor. which is a sandstone, 18 x 12 x 4 ins., lying on the ground, properly marked and witnessed.
	From witness ¼ sec. cor., I continue
	East
80.42	Fall 10 lks. N. of the cor. of secs. 33 and 34, which is sandstone, 10 x 9 x 7 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	The bearing of the west ½ of this mile is east and the east ½ mile is S.89°52'E. The proportion for each ½ mile is 40.20 chs., and the course of the fractional E.½ mile on S. bdy. of sec. 32 is east and the distance is 19.59 chs.

	From the cor. of secs. 33 and 34.
	East, retracing along the S. bdy. of sec. 34
39.93	Fall 2 lks. S. of the ¼ sec. cor. which is a sandstone, 13 x 8 x 9 ins. above ground, firmly set and marked and witnessed as described by the surveyor general.
	The bearing of this ½ mile is N.89°58'E. and the distance is 39.93 chs.
	From the ¼ sec. cor., continue
	East

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chains	
79.84	Intersect the cor. of secs. 34 and 35 which is a sandstone 16 x 8 x 18 ins., firmly set in a mound of stone and marked and witnessed as described by the surveyor general.
	The bearing of this ½ mile is east and the distance is 39.91 chs.

	From the cor. of secs. 34 and 35
	East
2.35	Intersect the closing cor. of secs. 2 and 3, T.18 S.,R. 7 E. which is a sandstone 12 x 8 x 9 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.

	From the SW. cor. of T.17 S.,R.7 E.
	East, resurveying along the S. bdy. of sec. 31.
	Over rough mountainous land through dense cedar and pinon timber and undergrowth of buck and sagebrush.
	Gradually descend over E. slope.
8.30	Point facing two bearing trees heretofore described. I destroy same.
9.80	Bottom of Cottonwood canyon and creek, 7 lks. wide, 4 ins. deep, good water, 150 ft. below Tp. cor., course S.
	Ascend.
10.46	Intersect old ¼ sec. cor.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground alongside old cor. for ½ sec. cor. S. bdy. sec. 31, T.17 S.,R.7 E., with brass cap marked
	¼ S 31 / 1916
	from which
	A pinon, 7 ins.diam.,bears N.75°E.,90 lks. dist.,marked ¼ S 31 B T
	A pinon, 9 ins.diam.,bears N.85°E., 100 lks. dist.,marked ¼ S 31 B T
	Thence S.89°56'E., with continuous chaining.

Resurvey and survey of the N.bdy. T.18 S.,R.7 E.

chains	
10.85	Road, bears N.15°W. and S.15°E.,
13.55	Westing of 40.00 chs. from the closing cor. of secs. 5 and 6, T.18 S.,R.7 E.
	Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground on solid rock and 8 ins. in a mound of stone for ¼ sec. cor. N.bdy. sec. 6, T.18 S.,R.7 E., with brass cap marked
	¼ S 6 1916
	from which
	A pinon, 9 ins.diam.,bears S.66½°E., 32 lks. dist.,marked ¼ S 6 B T
	A cedar, 9 ins.diam.,bears S.46°W., 30 lks. dist.,marked ¼ S 6 B T
20.25	Leave dense timber and begin more abrupt ascent, bears N. and S.
28.40	Top of perpendicular sandstone ledge,.125 ft. high, bears N.20°W. and S.20°E.
32.75	Enter scattering mahogany undergrowth, bears N. and S. Thence along rugged S. slope.
34.45	Rocky spur, 530 ft. above canyon, projects S. Descend abruptly over E. slope.
36.55	Rocky ravine, 70 ft. below spur, course S. Ascend abruptly over broken SE. slope.
43.00	Rocky spur, 165 ft. above ravine, projects S. Gradually descend over SE. slope.
46.85	Rocky ravine, 60 ft. below spur, course SW. Ascend abruptly over series of small broken sandstone ledges.
50.94	Proportionate measurement.
	Set an iron post, 3 ft. long, 2 ins. in dia., 18 ins. in the ground on solid rock and 6 ins. in a mound of stone for cor. of secs. 31 and 32, T.17 S.,R.7 E., with brass cap marked

Resurvey and survey of the N.bdy. T.18 S.,R.7 E.

chains	
	T 17 S | R 7 E S 31 | S 32
	1916.
	from which
	A pinon, 12 ins.diam., bears N.77°E., 20 lks. dist., marked T 17 S R 7 E S 32 B T
	A pinon, 5 ins.diam., bears N.81½°W., 53 lks. dist., marked T 17 S R 7 E S 31 B T
	Cor. stands on steep S. slope amongst ledges, 100 ft. above ravine.
	Land, rough mountainous; W. 9.80 chs. E. exposure and drainage; remainder of mile rough, broken break of mountain, general S. exposure and drainage.
	Soil, rocky of sandstone formation with some shallow brown clay, on hard, dry clay and rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, buck, sagebrush and mahogany.
	S.89°56'E., resurveying along the S.bdy. sec. 32
	Over rough, broken mountainous land through scattering scrub cedar and pinon timber and short undergrowth of shadscale. Gradually ascend along S. slope over rough broken sandstone ledges.
2.61	Position for closing cor. of secs. 5 and 6, T.18 S.,R.7 E.
19.90	Rocky ravine, course SW.
	Ascend abruptly over W. slope and break of mountain over series of sandstone ledges, 20 to 75 ft. high.
39.00	Top of sandstone ledges and break of mountain, bears S.15°W. and N. about 4 chs., thence N.70°W. Enter scrub cedar and pinon timber and mahogany undergrowth. Continue abrupt ascent.
40.48	The ¼ sec. cor., 1390 ft. above sec. cor.
	This cor. now refers to sec. 32, T.17 S.,R.7 E. only and I therefore deface south bearing tree and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Thence
	East, with continuous chaining.

Resurvey and survey of the N.bdy. of T.18 S.,R.7 E.

chains	
42.41½	Position midway bet. the closing cor. of secs. 5 and 6 and the closing cor. of secs. 4 and 5, T.18 S.,R.7 E. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. N. bdy. sec. 5, T.18 S., R.7 E., with brass cap marked ¼ S 5 1916 from which A pine, 8 ins.diam.,bears S.87°W., 138 lks. dist.,marked ¼ S 5 B T A pine, 8 ins.diam.,bears S.67½°W., 156 lks. dist.,marked ¼ S 5 B T
42.50	Point of mountain, 30 ft. above ½ sec. cor. S. bdy. sec. 32, projects SW. Gradually descend along rough, broken S. slope.
60.91	The old witness cor. to secs. 32 and 33, 35 ft. below point. I reset stone, 13 ins. in the ground, marked with 4 notches on E., 2 notches on W. and WC on NE face; raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Thence on offset line, N.0°03'W., 17.05 chs., then East, 19.59 chs. to
80.50	Proportionate measurement. Set a sandstone, 24 x 18 x 6 ins., 18 ins. in the ground for witness cor. to cor. of secs. 32 and 33, T.17 S., R.7 E., marked with 2 notches on W., 4 notches on E. edge and WC on NE. face; from which A mahogany, 6 ins.diam.,bears N.71½°E., 20 lks. dist., marked W C T 17 S R 7 E S 33 B T A mahogany, 5 ins.diam.,bears N.34½°W., 8 lks. dist.,marked W C T 17 S R 7 E S 32 B T Iron post not available. Land, rough, broken S. break of mountain, general S. exposure and drainage.

Resurvey and survey of the N. bdy. T.18 S.,R.7 E.

chains

Soil, rocky of sandstone formation with some shallow brown and blue clay, on hard, dry clay and rock sub-soil.

Timber, cedar, pinon and some pine.

Undergrowth, shadscale and mahogany.

East, resurveying along S. bdy. sec. 33, T.17 S.,R.7 E., on offset line as follows:

East, 1.72 chs.-to intersection with line bet. secs. 4 and 5, T.18 S.,R.7 E., continue east to 33.63 chs., then

S.0°03'E. 17.05 chs. to true line at

33.63 Intersect the witness cor. to the ¼ sec. cor. originally bet. secs. 4 and 33 but now serving as an angle point; as ¼ sec. cors. for secs. 4 and 33 will be established at their proper points. I reset stone as follows:

Set same stone, 3 ins. in the ground on solid rock and 9 ins. in a mound of stone, marked WC¼ on N. face; raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

Thence

S.89°52'E., with continuous chaining.

Descend precipitous E. break of mountain through scrub cedar and pinon timber and scattering undergrowth of service berry and shadscale and over series of broken sandstone ledges.

40.20 Proportionate measurement; 320 ft. below old witness ¼ sec. cor.

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. S. bdy. sec. 33, T.17 S., R.7 E., with brass cap marked

¼ S 33

1916

from which

A fir, 5 ins.diam.,bears N.72°E., 68 lks. dist.,marked ¼ S 33 B T

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chains	
	A fir, 10 ins.diam.,bears N.79°W., 62 lks. dist.,marked ¼ S 33 B T
41.60½	Midway bet. intersection with the line bet. secs. 4 and 5 and the closing cor. of secs. 3 and 4. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., N. bdy. sec. 4, T.18 S., R.7 E., with brass cap marked ¼ S 4 1916 from which
	A pinon, 18 ins.diam., bears S.50½°W., 110 lks. dist.,marked ¼ S 4 B T
	A mahogany, 4 ins.diam.,bears S.64¾°W., 47 lks. dist.,marked ¼ S 4 B T
62.80	Top of sandstone ledge about 150 ft. high, bears NW. and SE.
76.40	Ravine, 1245 ft. below ¼ sec. cor. S. bdy. sec. 33, course N.20°E. about 2 chs., thence E. Gradually ascend along broken N. slope 25 ft. to
80.40	The cor. of secs. 33 and 34. Land, rough, broken mountains; S. exposure and drainage on W. 33.63 chs., E. exposure on balance of mile, drainage S. Soil, rocky of sandstone formation, on rocky sub-soil. Timber, cedar, pinon and a few scattering fir, Undergrowth, service berry, shadscale and mahogany.

	N.89°58'E., resurveying along S. bdy. of sec. 34 Over rough mountainous land through scrub cedar and pinon timber and undergrowth of service berry and buck brush. Gradually descend along precipitous N. slope.
1.09	Position for the closing cor. of secs. 3 and 4, T.18 S., R.7 E.
3.65	Spur, projects N.70°E. Gradually descend.
8.30	Begin abrupt descent over E. slope.

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chains	
13.50	Bottom of ravine and wash, 40 lks. wide, 10 ft. deep, 175 ft. below spur, course S.
	Ascend abruptly over W. slope.
25.00	Top of ascent and edge of bench, 270 ft. above ravine, bears N. and SE. Enter dense timber, bears N. and SE. Thence over rolling and broken bench.
39.93	The ¼ sec. cor. This cor. now refers to sec. 34, T.17 S., R.7 E. only and I therefore destroy S. bearing tree and mark new bearing trees as follows:
	A pinon, 10 ins.diam.,bears N.49½°E., 21 lks. dist.,marked ¼ S 34 B T
	A pinon, 8 ins.diam.,bears N.38½°W., 24 lks. dist.,marked ¼ S 34 B T
	Thence
	East, with continuous chaining.
41.64	Position midway bet. the closing cor. of secs. 3 and 4 and the closing cor. of secs. 2 and 3, T.18 S.,R.7 E.
	Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground on solid rock and 8 ins. in a mound of stone for ¼ sec. cor. N. bdy. sec. 3, T.18 S.,R.7 E., with brass cap marked
	¼ S 3 1916
	from which
	A cedar limb, 8 ins.diam.,bears S.73°W.,45 lks. dist.,marked ¼ S 3 B T
	A pinon, 8 ins.diam.,bears S.67°W., 103 lks. dist.,marked ¼ S 3 B T
56.90	Rocky gulch, about 3 chs. wide, 35 ft. deep, course S.65°E.
67.98	Rocky wash, 75 lks. wide, 7 ft. deep, course SE.
79.84	The cor. of secs. 34 and 35.
	Land, broken mountains and bench lands, general S. exposure and drainage.
	Soil, shallow brown clay and rocky of sandstone formation

chains	
	on rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, service berry, buck brush and brigham tea.

Resurvey of subdivision of T.18 S.;R.7 E.

The cor. of secs. 9,10,15 and 16 is a sandstone boulder 20 x 13 x 16 ins. above ground, firmly set; and marked and witnessed as described by the surveyor general.

From cor.

S.0°02'E., resurveying bet. secs. 15 and 16.

Over mountainous land through scattering cedar and pinon timber and undergrowth of greasewood, shadscale and sagebrush. Ascend abruptly from ravine.

3.50 Spur, 75 ft. above sec. cor., projects E. about 1 chs. Descend abruptly over SE. slope.

8.20 Ravine, 60 ft. below spur, course N.30°E. Ascend precipitous NW. slope over broken ledges.

19.50 Top of steep ascent and enter bench and dense cedar and pinon timber, bears N.35°E. and S.35°W. Gradually ascend.

40.29 Fall 24 lks. E. of the ¼ sec. cor. which is a sandstone, 12 x 8 x 7 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.

The bearing of this ½ mile is S.0°19'W., and the distance is 40.29 chs.

Cor. stands on bench, 380 ft. above ravine.

From point, 24 lks. E. of the ¼ sec. cor continue S.0°02'E.

48.60 Edge of bench, bears NE. and SW, 5 ft. above ¼ sec. cor. Gradually descend over SE. slope.

58.20 Ravine, 20 ft. below bench, course NE. Ascend over rocky NW. slope.

63.90 Begin ascent over nearly W. slope.

66.90 Bottom of same ravine, course at bend from S.20°W. to to N.20°W.

Resurvey of subdivision of T.18 S.,R.7 E.

chains	
73.50	Top of ridge, 40 ft. above ravine, bears E. and W. A low saddle in ridge at head of ravines draining N.30°E. and S.30°W., bears W. about 1 ch.
	Descend along W. slope.
80.64	Fall 13 lks. E. of the cor. of secs. 15,16,21 and 22 which is a sandstone, 28 x 20 x 12 ins., lying on the ground, properly marked and witnessed by scattered mound of stone about the cor.
	I reset stone 18 ins. in the ground, marked with 3 notches on E. and 3 notches on S. edge; raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor.
	The bearing of this ½ mile is S.0°12'E., and the distance is 40.35 chs.
	Cor. stands on steep W. slope in small wash, course SW.
	Land, mountainous, N. exposure and drainage on N. 73.50 chs.; SW. exposure and S. drainage on S. 7.14 chs.
	Soil, blue clay, hard and dry mixed with samlstone rock, on hard, dry clay and rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, greasewood, shadscale and sagebrush.

	From the cor. of secs. 15,16,21 and 22
	S.0°02'E., retracing bet. secs. 21 and 22
39.90	Fall 26 lks. E. of the ¼ sec. cor. which is a sandstone 8 x 6 x 6 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	The bearing of this ½ mile is S.0° 20'W., and the distance is 39.90 chs.
	From ¼ sec. cor., I continue
	S.0°02'E.
79.90	No trace of the cor. of secs. 21,22,27 and 28 can be found. I set temp. sec. cor. which I designate"A".
	From temp. point "A" for cor. of secs. 21,22,27 and 28
	S.0°02'E., retracing bet. secs. 27 and 28
40.00	No trace of the ¼ sec. cor. can be found.

Resurvey of subdivision of T.18 S.,R.7 E.

chains	
	From temp. point "A" for cor. of secs. 21,22,27 and 28, S.89°48'E., retracing bet. secs. 22 and 27.
40.21	Fall 105 lks. N. of the ¼ sec. cor. which is a sandstone, 16 x 8 x 4 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	I return to point "A" for cor. of secs. 21,22,27 and 28 and set point "B", 1.05 chs. S. and 3 lks. E., this point being the record course and distance west of the ¼ sec. cor. bet. secs. 22 and 27. I now restore the cor. of secs. 21,22,27 and 28, midway on line connecting points A and B or 52½ lks. S. and 1½ lks. E. of point "A". For description of cor. see resurvey of line bet. secs. 21 and 22.
	The bearing of the S.½ mile bet. secs. 21 and 22 is S.0° 03'E., and the distance is 40.52½ chs.
	The bearing of the W½ mile bet. secs. 22 and 27 is S.89° 03'E. and the distance is 40.20 chs.
	Thence from cor. of secs. 15,16,21 and 22 S.0°20'W., resurveying bet. secs. 21 and 22.
	Over mountainous land through scattering cedar and pinon timber and undergrowth of buck brush, shadscale and brigham tea. Gradually descend along broken W. slope.
1.30	Spur, projects W. about 2 chs.,
	Descend abruptly over SW. slope.
4.50	Draw, 75 ft. below sec. cor., course SE.
	Ascend abruptly
6.30	Edge of bench and enter dense timber, 20 ft. above draw, bears NW. and SE.
12.60	Leave bench, bears N.60°E. and W.
	Descend abruptly over S. slope.
14.00	Draw, 40 ft. below bench, course from W. to S.60°E.
	Ascend abruptly over N. slope.
15.70	Enter bench, bears W. and S.60°E.
27.50	Top of ridge, bears NW. about 1 ch., thence SW. and SE. Head of ravine, drains S.60°W.
	Thence along broken W. slope.

Resurvey of subdivision of T.18 S.,R.7 E.

chains	
35.50	Ravine, 70 ft. below ridge, course SE.
	Thence in bottom of ravine.
39.90	The ¼ sec. cor. This cor. now refers to sec. 22 and I therefore deface W. bearing tree and raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor.
	Thence
	S.0°03'E., with continuous chaining.
	Ascend abruptly over NE. slope.
41.70½	A northing of 40.00 chs. from closing cor. of secs. 21 and 28.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. E. bdy. sec. 21, with brass cap marked ¼ S 21 1916 from which
	A pinon, 8 ins.diam.,bears N.88½°W., 63 lks. dist.,marked ½ S 21 B T
	A pinon, 10 ins.diam.,bears N.61°W., 110 lks. dist.,marked ¼ S 21 B T
44.70	Top of bench, bears NW. and S.60°E. Gradually ascend.
56.20	Leave bench, 100 ft. above ½ sec. cor., bears N.60°E. and S.60°W. Descend abruptly over S. slope.
57.60	Draw, 45 ft. below bench, course N.60°E.
	Ascend abruptly over N. slope.
58.90	Bench, 40 ft. above draw, bears N.60°E. and S.60°W.
64.70	Leave bench, bears NE. and SW.
	Descend abruptly over SE. slope.
67.30	Ravine, 115 ft. below bench, course NE.
	Ascend abruptly over NW. slope.
70.70	Bench, 135 ft. above ravine, bears NE. and SW.
74.80	Leave bench, bears E. and W.
	Descend abruptly.
77.90	Ravine, 90 ft. below bench, heads about 2 chs. W., course E. Gradually ascend along E. slope.

chains	
80.42½	Proportionate measurement.
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 22 and 27, with brass cap marked
	T 18 S S 22 S 27 R 7 E 1916
	from which
	A pinon, 8 ins.diam.,bears S.30½°E., 119 lks. dist.,marked T 18 S R 7 E S 27 B T
	A cedar, 9 ins.diam.,bears N.38½°E., 113 lks. dist.,marked T 18 S R 7 E S 22 B T
	Land, mountainous, cut by many ravines draining E.
	Soil, shallow blue clay and rocky of sandstone formation on rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, buck brush, shadscale, brigham tea and sagebrush. Fair grazing.

	S.0°02'E., resurveying bet. secs. 27 and 28
	Over broken mountainous land through cedar and pinon timber and undergrowth of shadscale, brigham tea and greasewood. Ascend over NE. slope.
2.10	Enter bench, bears NE. and SW.
24.60	Leave bench, bears E. and W., 40 ft. above sec. cor. Descend abruptly over S. slope.
27.40	Ravine, 125 ft. below bench, course E. about 1 ch., thence SE. Ascend abruptly over N. slope.
31.70	Spur, 75 ft. above ravine, projects E. Gradually descend along nearly E. slope.
35.20	Descend abruptly over S. slope.
38.10	Draw, 55 ft. below spur, course from SW. to E. Ascend abruptly over N. slope 45 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in

Resurvey of subdivision of T.18 S.,R.7 E.

chains	
	a mound of stone on solid rock for ¼ sec. cor. W. bdy. of sec. 27, with brass cap marked
	¼ | S 27
	1916
	from which
	A cedar, 24 ins.diam.,bears S.81¼°E., 82 lks. dist.,marked ¼ S 27 B T
	No other trees available.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor.
	Land, mountainous, general E. exposure and drainage.
	Soil, rocky of sandstone formation with some shallow brown and blue clay, on hard, dry clay and rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, shadscale, greasewood, brigham tea and sage-brush. Fair grazing.

	From cor. of secs. 22 and 27
	S.89°03'E., resurveying bet. secs. 22 and 27
	Over broken mountainous land through scattering cedar and pinon timber and undergrowth of shadscale and brigham tea. Gradually descend along broken N. slope of bench.
14.25	Enter bench and dense timber, bears NE. and SW.
40.20	The ¼ sec. cor.
	Thence
	S.89°48'E. with continuous chaining.
59.90	Leave bench and dense timber, bears N.30°W. and S.20°E. Descend abruptly into box canyon.
61.35	Bottom of canyon, 85 ft. below brink, course N.30°W. Ascend abruptly over ledges.
63.50	Top of E. side of canyon, bears N. and SW. Gradually ascend over broken W. slope.
70.20	Begin abrupt ascent over NW. slope.
77.70	Rocky point, 235 ft. above canyon, falls NW. Thence along broken rocky N. slope.
80.45	Fall 4 lks. N. of the cor. of secs. 22,23,26 and 27

Resurvey of subdivision of T.18 S.,R.7 E.

chains	
	which is a sandstone; 12 x 9 x 8 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	The bearing of this ½ mile is S.89°45'E., and the distance is 40.25 chs.
	Land, rough, broken mountains and benches, general N. exposure and drainage.
	Soil, brown and blue clay and rocky of sandstone formation on hard, dry clay and rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, shadscale, brigham tea and sagebrush.
	Fair grazing.

	From cor. of secs. 22,23,26 and 27
	S.0°01'E., resurveying bet. secs. 26 and 27
	Over rough mountainous land through scattering scrub cedar and pinon timber. Ascend abruptly over steep N. slope.
5.70	N. rim of flat topped ridge, 245 ft. above sec. cor., bears NE. and SW. Thence across ridge through dense timber.
8.30	Leave ridge and timber, bears E. and W.
	Descend abruptly over steep S. slope.
17.20	Base of steep descent and enter scattering cedar and pinon timber, bears E. and W. Gradually descend over broken bench land.
29.00	Begin abrupt descent over broken ledges, bears E. and W.
37.20	Bottom of gulch and wash, 30 lks. wide, 2 ft. deep, 450 ft. below ridge, course E.
	Ascend abruptly over broken clay ledges.
40.40	Fall 21 lks. E. of the ¼ sec. cor. which is a sandstone, 14 x 3 x 8 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	Cor. stands on top of clay ledges, 105 ft. above gulch.
	The bearing of this ½ mile is S.0°17'W., and the distance is 40.40 chs.
	From point 21 lks. E. of ¼ sec. cor. continue

Resurvey of subdivision of T.18 S.,R.7 E.

chains	
	S.0°01'E.
	Ascend abruptly over broken N. slope.
52.00	Enter dense timber, bears E. and W.
53.50	Edge of bench, 300 ft. above ¼ sec. cor., bears E. and S.75°W. Thence across broken bench strewn with large sandstone boulders.
80.52	Fall 26 lks: E. of the cor. of secs. 26,27,34 and 35 which is a sandstone, 8 x 8 x 8 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	The bearing of this ½ mile is S.0°04'W., and the distance is 40.12 chs.
	Land, rough mountainous and broken benches with steep N. and S. slopes into gulches draining E.
	Soil, brown and blue clay and rocky of sandstone formation on hard, dry clay and rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, shadscale, brigham tea and sagebrush. Fair grazing.

	From cor. of secs. 26,27,34 and 35.
	West, resurveying bet. secs. 27 and 34.
	Over mountainous land, across broken bench, through cedar and pinon timber and undergrowth of buck brush, sagebrush and brigham tea.
7.60	Leave bench, bears NW. and SE.
	Descend abruptly over broken SW. slope strewn with sandstone boulders.
32.15	Bottom of ravine and wash, 15 lks. wide, 5 ft. deep, 160 ft. below bench, course SE.
	Gradually ascend along broken N. slope 60 ft. to
40.00	No trace of the old ¼ sec. cor. can be found.
	Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground on solid rock and 10 ins. in a mound of stone for ¼ sec. cor., with brass cap marked

Resurvey of subdivision of T.18 S.,R.7 E.

chains

$\frac{1}{4}$ S 27 / S 34 v
1916

from which

A pinon, 6 ins.diam., bears S.54¾°E.,71 lks. dist.,marked $\frac{1}{4}$ S 34 B T

A pinon, 6 ins.diam., bears N.6¾°W., 79 lks. dist., marked $\frac{1}{4}$ S 27 B T.

Land, mountainous, with general N. and S. slopes into ravine draining SE.

Soil, shallow brown and blue clay and rocky of sandstone formation on hard, dry clay and rocky sub-soil.

Timber, cedar and pinon.

Undergrowth, sagebrush, buck brush and brigham tea.

Fair grazing.

From the cor. of secs. 15,16,21 and 22

West, resurveying bet. secs. 16 and 21

Over mountainous land through cedar and pinon timber and undergrowth of sagebrush, shadscale and brigham tea.

Descend abruptly.

2.60 Rocky draw, 55 ft. below sec. cor., course S. about 2 chs., thence SE.

Ascend abruptly over rocky SE. slope.

8.80 Ledge point, 145 ft. above draw, falls S.

Gradually descend.

32.40 Leave timber, bears NE. and SW. Descend abruptly.

35.00 Base of steep descent, gradually descend along N. slope.

39.60 Measting of 40.00 chs. from the cor. of secs. 16 and 21.

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in a mound of stone on solid rock for $\frac{1}{4}$ sec. cor. N. bdy. of sec. 21, with brass cap marked

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$\frac{1}{4}$ S 21
1916

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

Resurvey of subdivision of T.18 S.,R.7 E.

chains	
39.85	Bottom of ravine and wash, 30 lks. wide, 4 ft. deep, course NE., 180 ft. below point.
40.00	No trace of the old ¼ sec. cor. can be found. Point for ¼ sec. cor. falls in wash where cor. would be washed away, therefore at
41.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. S. bdy. of sec. 16, with brass cap marked WC ¼ S 16 1916 Raise a mound of stone, 2ft. base, 1½ ft. high, N. of cor.
	Land, mountainous with general E. and W. slopes into ravines draining SE. on E. 8.80 chs., and NE. on W. 31.20 chs.
	Soil; rocky of sandstone formation with some shallow brown and blue clay on rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush; brigham tea and shadscale.
	Fair grazing.

	From the cor. of secs. 9,10,15 and 16.
	West, resurveying bet. secs. 9 and 16
	Over rough mountainous land through scattering scrub cedar and pinon timber and undergrowth of shadscale, greasewood and sagebrush. Ascend abruptly from ravine over NE. slope.
7.35	Top of E. brink of wide spur projecting N., bears N. and S., 225 ft. above sec. cor. Thence across top through dense timber.
14.15	Leave spur, bears N. and S. 2 chs. thence SW. Descend abruptly over rocky W. slope.
19.00	Descend more gradually.
27.55	Bottom of ravine and wash, 40 lks. wide, 10 ft. deep, 185 ft. below spur, course N. Ascend abruptly.

Resurvey of subdivision of T.18 S.,R.7 E.

chains	
32.50	Thence across broken bench over unimportant spurs and draws.
40.07	Fall 20 lks. N. of the ¼ sec. cor. which is a sandstone, 12 x 8 x 12 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	The bearing of this ½ mile is S.89°43'W., and the distance is 40.07 chs.
	From ¼ sec. cor., continue
	West
47.70	Low flat ridge, 50 ft. above ¼ sec. cor., bears NE. and S.30°W. Descend.
50.50	Small wash in wide, shallow draw, course NE
57.60	Low broken ridge, 55 ft. above wash, bears N. and S.30°W. Descend abruptly.
64.10	Wash, in bottom of ravine, 1 ch. wide, 4 to 5 ft. deep, 55 ft. below ridge, course N. about 5 chs., thence NE. Gradually ascend over broken bench land.
77.90	Begin abrupt ascent over rocky E. slope.
79.72	Fall 2 lks. N. of the cor. of secs. 8,9,16 and 17 which is a sandstone, 10 x 10 x 5 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	The bearing of this ½ mile is S.89°58'W., and the distance is 39.65 chs.
	Cor. stands on steep E. slope 150 ft. above ravine.
	Land, mountainous, general N. exposure and drainage to Cottonwood creek.
	Soil, rocky of sandstone formation with some shallow brown and blue clay, on rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush, greasewood and shadscale. Fair grazing.

	From the cor. of secs. 8,9,16 and 17.
	S.0°01'E., resurveying bet. secs. 16 and 17.
	Over rough mountainous land through scattering cedar and

Resurvey of subdivision of T.18 S.,R.7 E.

chains	
	pinon timber and undergrowth of shadscale.
	Gradually ascend along broken E. slope.
5.50	Land becomes more broken and enter dense timber, bears E. and W.
25.40	Descend abruptly into ravine.
26.50	Rocky ravine, 90 ft. above sec. cor., course NE.
	Ascend abruptly.
30.00	Top of steep ascent and enter broken bench, bears NE. and SW.
40.00	No trace of the old ¼ sec. cor. can be found.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. on the W. bdy. of sec. 16, with brass cap marked
	¼ S 16
	1916
	from which
	A pinon, 5 ins.diam., bears N.26½°E., 21 lks. dist., marked ¼ S 16 B T
	A pinon, 8 ins.diam., bears S.73¾°E., 50 lks. dist., marked ¼ S 16 B T
	Cor. stands on broken bench, 140 ft. above ravine.
	Land, broken mountainous benches, general NE. exposure and drainage.
	Soil, rocky of sandstone formation with some shallow brown clay on dry clay and rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, shadscale and scattering patches of buck brush. Fair grazing.

	From the cor. of secs. 8,9,16 and 17.
	West, retracing bet. secs. 8 and 17.
39.93	Fall 1 lk. N. of the ½ sec. cor. which is a sandstone boulder in place, 64 x 24 x 40 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	The bearing of this ½ mile is S.89°59'W., and the distance is 39.93 chs.

Resurvey of subdivision of T.18 S.,R.7 E.

chains	
	From ¼ sec. cor. continue West
79.93	No trace of the cor. of secs. 7,8,17 and 18 can be found. Set temp. sec. cor. which I designate as "A". From temp. point "A" for cor. of secs. 7,8,17 and 18, N.0°01'W., retracing bet. secs. 7 and 8
40.00	Fall 34 lks. W. of the ¼ sec. cor. which is a sandstone, 10 x 8 x 8 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. I return to point "A" for cor. of secs. 7,8,17 and 18 and set point "B" 34 lks. E. (this point being 40.00 chs. S.0°01'E. of the ¼ sec. cor. bet. secs. 7 and 8) I now restore cor. of secs. 7,8,17 and 18 midway on line connecting points "A" and "B". For description of cor. see resurvey of line bet. secs. 8 and 17.
	The bearing of the west ½ mile bet. secs. 8 and 17 is west and the distance is 39.83 chs.
	The bearing of the south ½ mile bet. secs. 7 and 8 is N.0°14'E. and the distance is 40.00 chs.
	Thence from cor. of secs. 8,9,16 and 17. S.89°59'W., resurveying bet. secs. 8 and 17. Over mountainous land through cedar and pinon timber and undergrowth of sagebrush and brigham tea. Ascend abruptly over E. slope.
2.70	Top of wide bench, 105 ft. above sec. cor., bears N. and S. Thence across top.
6.65	Begin gradual descent.
8.15	Leave bench, bears N. and S. Begin descent over rocky W. slope.
20.10	Ravine, 215 ft. below bench. course N. Ascend abruptly.
21.90	Sharp, rocky spur, 65 ft. above ravine, projects N. about 3 chs. Descend abruptly.
26.25	Bottom of ravine and wash, 20 lks. wide, 10 ft. deep, 75 ft. below spur, course NE.
	Gradually ascend over rough, broken bench strewn with

Resurvey of subdivision of T.18 S.,R.7 E.

chains	
	large sandstone boulders.
39.93	The ¼ sec. cor.
	Thence
	West, with continuous chaining.
62.30	Enter scattering mahogany undergrowth, bears N. and S.
72.00	Rocky gulch, 275 ft. above ¼ sec. cor., course N.80°E: about 3.50 chs., thence N.15°E. Ascend abruptly over rugged E. and S. slopes along N. side of gulch.
79.76	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 18 S S 7	R 7 E S 8
S 18	S 17

1916

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

No trees suitable for bearing trees are available.

Land, rough mountainous with general E. and W. slopes to ravines and gulches draining N.

Soil, shallow brown clay and rocky of sandstone formation on gravelly and rocky sub-soil.

Timber, cedar and pinon.

Undergrowth, sagebrush, brigham tea and mahogany.

Fair grazing.

N.0°14'E., resurveying bet. secs. 7 and 8

Over rough mountainous land through cedar and pinon timber and undergrowth of mahogany, brigham tea and buck brush. Ascend over large sandstone boulders and small ledges.

1.80	Brink of gulch, 40 ft. above sec. cor., bears E. and W. Descend.
6.75	Rocky ravine, 45 ft. below brink, course NE.
	Thence along broken E. slope, ascending and descending.
23.15	Rocky ridge spur, projects NE.

chains	
	Descend abruptly over NE. slope.
40.00	The ¼ sec. cor., 500 ft. below spur.
	Thence
	N.0°01'W., with continuous chaining.
	Continue steep descent.
49.15	Base of mountain and leave cedar and pinon timber and mahogany and buck brush undergrowth, enter bottom of cottonwood canyon and dense sagebrush and greasewood undergrowth, bears NW. and SE. Thence across canyon.
56.15	Leave sagebrush and greasewood undergrowth, enter cottonwood timber and birch undergrowth, bears W. and SE.
57.30	Cottonwood creek, 35 lks. wide, 12 to 18 ins. deep, good water, 260 ft. below ¼ sec. cor., course E.
62.90	U. S. Forest Service Tel. line, bears E. and W. Leave timber and undergrowth, enter alfalfa field, bears E. and W.
74.70	Pole fence and leave field, bears W. and E. about 2 chs., thence SE.
75.60	Road, Orangeville to Ephraim, Utah, bears W. and S.70°E.
77.10	Leave canyon bottom, bears E. and W. Begin abrupt ascent over S. slope of blue clay ridge.
80.21	Fall 1 lk. E. of the cor. of secs. 5,6,7 and 8 which is sandstone, 8 x 5 x 7 ins. above ground, firmly set, marked with 5 notches on S. edge. Other marks on stone worn off, and witnessed by scattered mound of stone W. of cor.
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground alongside old cor. for cor. of secs. 5,6,7 and 8, with brass cap marked

T 18 S | R 7 E
S 6 | S 5

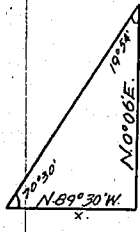
S 7 | S 8

1916

	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	The bearing of this ½ mile is N.0°02'W., and the distance

chains	
	is 40.21 chs.
	Land, S. 49.15 chs., rough broken mountains, general N. exposure and drainage to canyon; next 27.95 chs. rolling canyon bottom; remainder of mile mountainous, slopes and drains S.
	Soil, mountainous land rocky of sandstone formation on rocky sub-soil. Soil of canyon, rich brown loam on deep sandy sub-soil.
	Timber, cedar, pinon and cottonwood.
	Undergrowth, mahogany, sagebrush, greasewood, buck brush and birch.

	From the cor. of secs. 7,8,17 and 18.
	West, resurveying bet. secs. 7 and 18
	The line west passes over high ledges and break of mountain over which I cannot chain, I therefore triangulate as follows:
	Being unable to set a flag on line west, I set a flag N.89°30'W. on top of ledges and mountain. The bearing of the line bet. secs. 5 and 6 is N.0°06'E. and the distance is 80.21 chs. From flag on top of ledges an angle bet. the cor. of secs. 5,6,7 and 8 and the cor. of secs. 7,8,17 and 18 is 70°30'; therefore



Log 80.21 chs. ---------- 1.904229
Log sin 19°54' ---------- 9.531963
11.436192
Log sin 70°30' ---------- 9.974347
Log 1.461845 = 28.96 chs.

to point of triangulation. I now offset 26 lks. S. to true line at

28.96 Top of sandstone ledges and E. break of mountain, 1550 ft. above sec. cor., bears N.about 2 chs., thence N.60°W. and S. Enter dense mahogany undergrowth, bears N. and S. Gradually descend over rolling mountain top.

40.00 No trace of the old ¼ sec. cor. can be found.

Set an iron post, 3 ft. long, 1 in. in dia., 8 ins. in the ground on solid rock and 18 ins. in a mound of stone for ¼ sec. cor., with brass cap marked

Resurvey of subdivision of T.18 S.,R.7 E.

chains

$\frac{1}{4}$ S 7 / S 18 1916

from which

A mahogany, 8 ins.diam.,bears S.16°E., 119 lks. dist.,marked $\frac{1}{4}$ S 18 B T

A pinon, 8 ins.diam.,bears N.52½°W., 51 lks. dist.,marked $\frac{1}{4}$ S 7 B T

Land, E. 28.96 chs., rough broken E. break of mountain, E. exposure and drainage and covered with scattering cedar and pinon timber and mahogany undergrowth. Remainder of mile rolling mountain top.

Soil, rocky of sandstone formation on rocky sub-soil.

Timber, cedar and pinon.

Undergrowth, mahogany.

From the cor. of secs. 5,6,7 and 8.

West, resurveying bet. secs. 6 and 7

Over mountainous land, along broken S. slope.

11.75 Enter cedar and pinon timber, bears NE. and SE. Thence across mouth of N. fork of Cottonwood Creek canyon.

17.50 Road in canyon, bears N.80°W. and SE.;Orangeville to Ephraim

27.55 Irrigation ditch, 2 ft. wide, 1 ft. deep, course S.

28.50 Bottom of canyon and wash, 50 lks. wide, 7 ft. deep, stream in same 2 lks. wide, 3 to 4 ins. deep, course S.

31.50 Begin ascent from canyon over broken, rocky E. slope strewn with large sandstone boulders.

40.10 Fall 11 lks. N. of the $\frac{1}{4}$ sec. cor. which is a sandstone boulder in place, 6 x 4 x 3 ft. above ground, firmly set and marked and witnessed as described by the surveyor general.

The bearing of this $\frac{1}{4}$ mile is S.89°50'W., and the distance is 40.10 chs.

Land, mountainous, general S. exposure and drainage.

Soil, rocky of sandstone formation with some blue and brown clay, on rocky sub-soil.

Timber, cedar and pinon.

Resurvey of subdivision of T.18 S.,R.7 E.

chains	
	Undergrowth, sagebrush.
	From the cor. of secs. 5,6,7 and 8
	East, retracing bet. secs. 5 and 8.
39.52	Fall 2 lks. N. of the ¼ sec. cor. which is a sandstone, 9x 9 x 9 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	The bearing of this ½ mile is S.89°58'E., and the distance is 39.52 chs.
	From ¼ sec. cor., continue
	East
79.66	Fall 3 lks. N. of the cor. of secs. 4,5,8 and 9 which is a sandstone, 11 x 5 x 8 ins. above ground, firmly set, properly marked and not witnessed.
	The bearing of this ½ mile is S.89°57'E., and the distance is 40.14 chs.
	Thence from cor. of secs. 5,6,7 and 8
	S.89°58'E., resurveying bet. secs. 5 and 8.
	Over mountainous land near base of mountain at N. side of Cottonwood canyon through very scattering scrub cedar and pinon timber.
8.15	Wash, in wide draw, 30 lks. wide, 2 ft. deep, 50 ft. below sec. cor., course S. Enter medium dense cedar and pinon timber and sagebrush and greasewood undergrowth, bears N. and S. Thence over broken land.
25.00	Wash, at base of ridge, 15 lks. wide, 9 ft. deep, course SW. Ascend abruptly over rough, broken W. slope.
37.25	W. edge of bench, 370 ft. above wash, bears NE. and SW. Thence across bench.
39.52	The ¼ sec. cor. This cor. now refers to sec. 8 only and I therefore deface N. bearing tree and build new accessories as follows:
	Raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor.
	No other trees suitable for bearing trees are available. Thence

chains	
	S.89°57'E., with continuous chaining.
39.83	Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground on solid rock and 8 ins. in a mound of stone for ¼ sec. cor. S. bdy. sec. 5 with brass cap marked ¼ S 5 1916 from which A cedar, 30 ins.diam.,bears N.39¾°E., 53 lks. dist.,marked ¼ S 5 B T A pinon, 6 ins.diam.,bears N.49½°W., 38 lks. dist..marked ¼ S 5 B T
46.60	E. brink of bench, bears SW. and E. Timber becomes very scattering, bears NE. and SW. Thence along brink.
53.40	Sharp, rocky spur from bench, projects SE. Descend abruptly over E. slope.
61.00	Bottom of ravine and wash, 50 lks. wide, 15 ft. deep, 280 ft. below spur; course SE. Ascend abruptly over rocky W. slope.
65.30	Spur, 65 ft. above ravine, projects S.20°E. Leave timber and undergrowth, bears N. and S. Descend abruptly over E. slope.
69.30	Ravine, 170 ft. below spur, course S.20°E. Gradually ascend.
73.50	Begin abrupt ascent over broken shale rock ledges.
76.75	S. point of spur, 115 ft. above ravine, falls S.
79.25	Descend abruptly over E. slope.
79.66	The cor. of secs. 4,5,8 and 9, 25 ft. below spur. Note: I am unable to build new accessories on account of the cor. being on very steep slope. Land, broken mountains with general E. and W. slopes to ravines draining S. Soil, blue clay and rocky of sandstone formation on hard, dry clay and rocky sub-soil. Timber, cedar and pinon. Undergrowth, sagebrush and greasewood.

	From the cor. of secs. 4,5,8 and 9 East, resurveying bet. secs. 4 and 9. Over mountainous land. Descend abruptly over broken E. slope.

Resurvey of subdivision of T.18 S.,R.7 E.

chains	
4.25	Ravine, 75 ft. below sec. cor., course S. Enter scattering scrub cedar and pinon timber, bears N. and S. Ascend abruptly over W. slope.
10.90	Spur, 235 ft. above ravine, projects S. Descend abruptly over E. slope.
12.90	Ravine, 50 ft. below spur, course S. Ascend.
13.80	W. edge of bench, 50 ft. above ravine, bears NW. and S. Enter dense timber and scattering mahogany and buck brush undergrowth, bears NW. and S. Thence across bench
21.70	E. edge of bench, bears N.20°W. and S.20°E. Leave timber, bears with bench. Descend abruptly.
33.35	Ravine, 285 ft. below bench, heads at low clay ridge about 4 chs. N. and drains S. Ascend.
36.40	Spur, 50 ft. above ravine, projects S. Enter cedar and pinon timber, bears N. and S. Descend .
40.01	Fall 17 lks. N. of the ¼ sec. cor. which is a sandstone, 10 x 8 x 10 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	The bearing of this ¼ mile is S.89°45'E., and the distance is 40.01 chs.
	From point 17 lks. N. of the ¼ sec. cor. continue East
46.00	Bottom of gulch and wash, 25 lks. wide, 15 ft. deep, course S. Leave timber, bears N. and S.
	Ascend abruptly over W. slope.
52.84	Top of ridge, 160 ft. above gulch, bears N. and S. Set flag on line at this point for triangulation bet. secs. 4 and 5.
	Descend abruptly
57.10	Head of ravine, 140 ft. below ridge, course S. Ascemd.
59.50	Point of spur, 45 ft. above ravine, falls S.30°E.
	Gradually descend over rolling E. slope 120 ft. to
79.98	Fall 22 lks. N. of the cor. of secs. 3,4,9 and 10 which is a sandstone, 8 x 8 x 8 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.

Resurvey of subdivision of T.18 S.,R.7 E.

chains

The bearing of this ½ mile is S.89°56'E. and the distance is 39.97 chs.

Land, broken mountains with general E. and W. slopes to ravines and gulches draining S.

Soil, blue and brown clay and rocky of sandstone formation on hard, dry clay and rocky sub-soil.

Timber, cedar and pinon.

Undergrowth, sagebrush and greasewood.

From the cor. of secs. 3,4,9 and 10

N.0°02'W., resurveying bet. secs. 3 and 4.

Over mountainous land, Gradually descend over N. slope through scattering greasewood and sagebrush undergrowth.

2.20 Wash, 10 lks. wide, 5 ft. deep, course SE. Ascend.

10.00 Ascend more abruptly over SW. slope.

15.90 Spur, 130 ft. above wash, projects SE. Gradually descend.

20.90 Spur, projects E. about 5 chs.

24.00 Descend abruptly over NE. slope.

34.20 Draw, 90 ft. below spur, course SE. Ascend abruptly.

35.90 Top of small butte, 55 ft. above draw, projects SE. about 2 chs. Gradually descend over N. slope.

40.00 No trace of the old ¼ sec. cor. can be found.

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

S 4 | S 3
1916

from which

A red sandstone boulder, 10x8x5 ft. bears East, 210 lks. dist., marked X ¼ S 3 B O

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

Land, mountainous, S. exposure and drainage.

Soil, blue clay and rocky of sandstone formation, on hard dry clay and rocky sub-soil.

Timber, a few scattering cedar and pinon.

Undergrowth, greasewood and sagebrush.

From the cor. of secs. 3,4,9 and 10

Resurvey of subdivision of T.18 S.,R.7 E

chains	
	East, retracing bet. secs. 3 and 10.
40.00	No trace of the old ¼ sec. cor. can be found.
81.25	Fall 64 lks. S. of the cor. of secs. 2,3,10 and 11 which is a sandstone, 8x5x10 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.
	Thence from cor. of secs. 2,3,10 and 11.
	S.89°33'W., resurveying bet. secs. 3 and 10.
	Over broken bench land through cedar and pinon timber.
11.70	Wash, 20 lks. wide, 1 ft. deep, course S. Ascend abruptly.
17.80	Edge of bench, 85 ft. above wash, bears N. and S.
	Thence across broken bench.
22.50	Wash, 1 ch. wide, 12 ft. deep, course S.20°E.
32.75	W. edge of cedar bench and leave dense timber, bears N. and S. Descend abruptly over W. slope 240 ft. to
40.00	Point for ¼ sec. cor will fall in wash where cor. will be washed away, therefore at this point.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for witness cor. to the ¼ sec. cor. with brass cap marked
	WC ¼ S 3 / S 10 / 1916
	from which
	A pinon, 8 ins.diam.,bears S.63½°E., 35 lks. dist.,marked W C ¼ S 10 B T
	A cedar, 5 ins.diam.,bears N.54½°W., 68 lks. dist.,marked W C ¼ S 3 B T
40.50	Enter wash,75 lks. wide,12 ft. deep, course from W. to SE.
40.62½	Point for ¼ sec. cor. in wash. No cor. set.
43.10	Leave wash, turns N. Gradually ascend.
47.50	E. edge of low bench, 30 ft. above wash, bears N. and S.
64.25	W. edge of bench, bears N. and S. Descend abruptly.
68.15	Gulch, 65 ft. below bench, course S.80°E. about 3 chs., thence S. Ascend abruptly.
70.80	Edge of bench, 60 ft. above gulch, bears NW. and SE.
79.80	Wash, 15 lks. wide, 3 ft. deep, course S.20°E.
81.25	The cor. of secs. 3,4,9 and 10.
	Land, broken benches cut by gulches draining S.
	Soil, brown and blue clay and rocky of sandstone formation

chains | on hard, dry clay and rocky sub-soil.
Timber, cedar and pinon.
Undergrowth, sagebrush and greasewood. Fair grazing.

From the closing cor. of secs. 2 and 3,
S.0°01'E., retracing bet. secs. 2 and 3.
Over rolling bench land through cedar and pinon timber and undergrowth of shadscale and brigham tea.

22.65 | Rocky gulch, 2 chs. wide, 35 ft. deep, course S.75°E.

41.19 | Fall 13 lks. W. of the ¼ sec. cor. which is a sandstone 14 x 9 x 8 ins. above ground, firmly set and marked and witnessed as described by the surveyor general.
The bearing of this ½ mile is S.0°12'E., and the distance is 41.19 chs.
From ¼ sec. cor., I continue S.0°01'E.

81.29 | Fall 9 lks.E. of the cor. of secs. 2,3,10 and 11.
The bearing of this ½ mile is S.0°07'W. and the distance is 40.10 chs.
Land,broken cedar bench, S. exposure and drainage.
Soil, shallow brown sandy clay and rocky, sandstone formation on hard, dry clay and rocky sub-soil. Surface strewn with large sandstone boulders.
Timber, cedar and pinon.
Undergrowth, sagebrush and brigham tea.

Subdivision of T.18 S.,R.7 E.

From the ¼ sec. cor. bet. secs. 27 and 34.
West, on temp. line bet. secs. 27 and 34.

40.00 | Set temp. cor. of secs. 27 and 28
From temp. cor. of secs. 27 and 28
North, on temp. line bet. secs. 27 and 28

41.55 | Fall 13 lks. E. of the ¼ sec. cor. on W. bdy. of sec. 27.
Thence from ¼ sec. cor on W. bdy. sec. 27
S.0°02'E. on true line bet. secs. 27 and 28
Ascend over broken mountainous bench land through cedar and pinon timber and sagebrush and brigham tea undergrowth.

Subdivision of T.18 S.,R.7 E.

chains	
1.10	Spur, 45 ft. above ¼ sec. cor., projects E. Descend.
1.41½	Position midway bet. the closing cor. of secs. 21 and 28 and the point for cor. of secs. 27 and 28
	Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground on solid rock and 8 ins. in a mound of stone for ¼ sec. cor. E. bdy. sec. 28, with brass cap marked ¼ S 28 | 1916
	from which
	A pinon, 5 ins.diam.,bears S.19¾°W., 32 lks. dist.,marked ¼ S 28 B T
	A pinon, 4 ins.diam.,bears N.68½°W., 41 lks. dist.,marked ¼ S 28 B T
3.90	Descend abruptly over S. slope.
13.30	Bottom of ravine and stream, 1½ lks. wide, 1 in.deep, clear water, 365 ft. below spur, heads about 3 chs. W. and drains E. Ascend abruptly over broken NE. slope.
28.10	Spur, 270 ft. above ravine, projects E. Descend abruptly.
31.00	Ravine, 75 ft. below spur, course SE.
	Gradually ascend along broken E. slope.
37.40	Ridge, 90 ft. above ravine, bears NW. and SE.
	Descend abruptly over SW. slope 90 ft. to
41.55	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 27 and 28 with brass cap marked T 18 S | R 7 E S 28 | S 27 1916
	Raise a mound of stone 2 ft.base, 1½ ft. high, W. of cor.
	Land, rough mountains, general E. exposure and drainage.
	Soil, blue clay, gravelly and rocky of sandstone formation on rocky sub-soil.
	Timber, scrub cedar and pinon.
	Undergrowth, sagebrush and brigham tea. Fair grazing.

	From the ¼ sec. cor. bet. secs. 27 and 34.
	West, on true line bet. secs. 27 and 34.
	Over mountainous land through scattering cedar and pinon

Subdivision of T.18 S.,R.7 E.

chains	
	timber and undergrowth of sagebrush. Gradually ascend.
4.10	Point, 65 ft. above ¼ sec. cor., falls NW.
	Gradually descend along N. slope.
12.75	Ravine, 145 ft. below point, course at bend from NW. to N.70°E. Ascend abruptly over rocky NE. slope.
29.10	Rocky ridge spur, 215 ft. above ravine, projects S.80°E.
	Descend abruptly over SW. slope 115 ft. to
40.13	The cor. of secs. 27 and 28
	Land mountainous with general N. and S. exposures of ridges into ravines draining E.
	Soil, rocky of sandstone formation and blue clay, on rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush and brigham tea.

	From the cor. of secs. 27 and 28
	S.0°02'E., on a random line bet. secs. 33 and 34.
40.00	Set temp. ¼ sec. cor.
79.54	Intersect S. bdy. of the Tp. 1.06 chs. west of the cor. of secs. 33 and 34 which is an iron post, 3 ins. in dia., extending 12 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	Thence from cor. of secs. 33 and 34.
	N.0°02'W., on true line bet. secs. 33 and 34.
	Over rough mountainous land through scattering cedar and pinon timber and undergrowth of sagebrush. Gradually ascend across top of spur, projecting E.
3.10	Leave spur, descend abruptly over N. slope.
8.30	Ravine, 145 ft. below spur, course E. Ascend abruptly.
19.70	Spur, 470 ft. above ravine, projects E.
	Descend abruptly over N. slope.
24.10	Draw, 165 ft. below spur, course N.50°E. Ascend abruptly.
26.50	Spur, 55 ft. above draw, projects N.50°E.
	Descend abruptly over NW. slope.
37.70	Ravine and wash, 20 lks. wide, 5 ft. deep, 385 ft. below spur, course E.
	Gradually descend along E. slope.

Subdivision of T.18 S.,R.7 E.

chains	
39.77	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 33 | S 34 1916 from which A pinon, 5 ins.diam.,bears N.62½°E., 85 lks. dist.,marked ¼ S 34 B T A cedar, 17 ins.diam.,bears N.81½°W., 284 lks. dist.,marked ¼ S 33 B T
48.20	Draw, 130 ft. below ¼ sec. cor., course E. Ascend abruptly over S. slope.
51.20	Spur, 130 ft. above draw, projects E. Descend abruptly over N. slope.
59.90	Ravine, 180 ft. below spur, course N.60°E. Ascend abruptly over S. slope.
63.50	Spur, 70 ft. above ravine, projects E. Descend along broken E. slope.
78.70	Ravine, 75 ft. below spur, course SE. Ascend abruptly.
79.54	Intersect E. and W. line 1.06 chs. east of the cor. of secs. 27 and 28. At intersection, Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 33 and 34, with brass cap marked T 18 S R 7 E S 27 S 33 | S 34 CC 1916 Raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor. Land, rough mountainous with steep N. and S. slopes into ravines draining E. Soil, blue clay and rocky of sandstone formation on rocky sub-soil.

Subdivision of T.18 S.,R.7 E.

chains	
	Timber, cedar and pinon.
	Undergrowth, sagebrush.
	From ¼ sec. cor. bet. secs. 3 and 4.
	N.e°02'W., on true line bet. secs. 3 and 4.
	Over mountainous land through scattering scrub cedar and pinon timber and undergrowth of shadscale. Gradually descend.
2.50	Draw, 20 ft. below ¼ sec. cor., course SE.
	Thence along draw, crossing and recrossing same.
6.10	Leave draw, turns NE. Ascend abruptly over S. slope.
12.00	Ridge, 105 ft. above draw, bears NW. and SE.
	Gradually descend over NE. slope.
15.60	Ravine, 10 ft. below ridge, course SE.
	Thence along bottom of ravine.
24.60	Ravine, turns NW. Ascend abruptly over S. slope.
34.30	Ridge, 375 ft. above ravine, bears S.60°W. and NE. about 2 chs., thence SE.
	Descend abruptly over NW. slope.
38.30	Ravine, 105 ft. below ridge, course E.
	Ascend abruptly.
41.00	Spur, 85 ft. above ravine, projects N.60°E.
	Descend abruptly.
41.95	Intersect N. bdy. of the Tp. 1.09 chs. N.89°58'E. of the cor. of secs. 33 and 34. At intersection
	Set an iron post, 3 ft. long, 2 ins. in dia., 20 ins. in the ground on solid rock and 4 ins. in a mound of stone for closing cor. of secs. 3 and 4, with brass cap marked

T 17 S R 7 E
S 34

S 4 | S 3
T 18 S | R 7 E

CC
1916

from which

A pinon, 3 ins.diam.,bears S.70½°E., 85 lks. dist.,marked C C T 18 S R 7 E S 3 B T

chains	
	A pinon, 8 ins.diam.,bears S.88½°W., 197 lks. dist.,marked C C T 18 S R 7 E S 4 B T
	Land, rough, broken mountains, general E. exposure and S. drainage.
	Soil, blue clay and rocky of sandstone formation on hard, dry clay and rocky sub-soil.
	Timber, scattering cedar and pinon.
	Undergrowth, shadscale
	From the true cor. point for ¼ sec. cor. S. bdy. sec.16. West, on temp. line bet. secs. 16 and 21.
1.00	The W. C. to ¼ sec. cor. for sec. 16.
40.00	Set temp. cor. of secs. 16 and 21.
	From temp. cor. of secs. 16 and 21.
	N.0°01'W.on temp. line bet. secs. 16 and 17.
40.39	Fall 40 lks. W. of the ¼ sec. cor. W. bdy. of sec. 16
	Thence from ¼ sec. cor. W. bdy. sec. 16
	S.0°01'E. on true line bet. secs. 16 and 17.
	Over rough mountainous bench land through dense cedar and pinon timber and undergrowth of shadscale, buck brush and brigham tea. Gradually ascend.
0.20.	Rocky wash, 20 lks. wide, 8 ft. deep, course NE.
1.69	A northing of 40.00 chs. from the closing cor. of secs. 17 and 20.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. E. bdy. of sec. 17, with brass cap marked ¼ S 17 | 1916
	from which
	A pinon, 8 ins.diam.,bears N.83½°W., 33 lks. dist.,marked ¼ S 17 B T
	A pinon, 8 ins.diam.,bears S.26½°W., 30 lks. dist.,marked ¼ S 17 B T
7.10	Descend abruptly over S. slope into ravine.
8.35	Ravine, 100 ft. above ¼ sec. cor., course N.15°E. Ascend abruptly.

Subdivision of T.18 S.,R.7 E.

chains	
23.40	Spur, 330 ft. above ¼ sec. cor., projects E. Descend abruptly over S. slope.
28.50	Ravine, 125 ft. below spur, course N.80°E. about 7 chs. thence N.30°E., heads about 8 chs. SW. Ascend abruptly over N. slope.
33.80	Sharp rocky spur, 265 ft. above ravine, projects N.65°E. Descend abruptly.
36.85	Ravine, 140 ft. below spur, course NE., heads SW. about 8 chs. distant. Ascend abruptly
40.39	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 16 and 21, with brass cap marked T 18 S S 16 S 21 R 7 E 1916 from which A pinon, 12 ins.diam.,bears N.10½°E., 86 lks. dist.,marked T 18 S R 7 E S 16 B T No other trees are available. Raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. Land, rough, broken mountainous, general NE. exposure and drainage and lies at base of breaks of high mountain. Soil, rocky of sandstone formation and some blue clay, on hard, dry clay and rocky sub-soil. Timber, cedar and pinon. Undergrowth, sagebrush, buck brush and brigham tea.

	East, on true line bet. secs. 16 and 21. Over rough broken mountainous land through scattering scrub cedar and pinon timber and undergrowth of shad scale. Ascend.
.10	Spur, projects NE. Descend abruptly over SE. slope.

Subdivision of T.18 S.,R.7 E.

Chains	
6.80	Ravine, 205 ft. below spur, course N.30°E. A small seep of alkali water in ravine. Ascend abruptly.
9.65	Spur, 25 ft. above ravine, projects N. about 5 chs. Descend.
11.85	Ravine, 35 ft. below spur, course N.15°W. Ascend abruptly.
16.85	Spur, 230 ft. above ravine, projects N. Enter dense cedar and pinon timber and mahogany and buck brush undergrowth bears N. and S. Thence along broken N. slope, gradually descending over large boulders.
22.55	Small rocky gulch, 35 ft. below spur, course N. Gradually ascend.
27.00	Spur, 40 ft. above gulch, projects NE. Leave timber and undergrowth, bears NE. and SW. Descend abruptly over steep clay slope.
38.60	The witness cor. to the ¼ sec. cor. S. bdy. sec. 16.
39.60	Point for ¼ sec. cor. S. bdy. sec. 16 in wash in ravine, 500 ft. below spur.
	Land, rough mountains, general N. exposure and drainage.
	Soil, rocky of sandstone formation and blue clay on hard, dry clay and rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, shadscale, mahogany and buck brush.

	The cor. of secs. 32 and 33 on the S. bdy. of the Tp. is an iron post, 3 ins. in dia., extending 12 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	Thence
	N.0°03'W., bet. secs. 32 and 33
	Over rough mountainous land, ascend precipitous SE. break of mountain through cedar and pinon timber and mahogany undergrowth.
	The line north passes over ledges impossible to chain and being unable to get a suitable base to triangulate I determine the distance to the top of ledges as follows:

Subdivision of T.18 S.,R.7 E.

chains	
	Set a point on line on top of ledges north and also set a point on top of ledges west. From point on top of ledges west run N.0°03'W., 9.56 chs., thence east 9.56 chs. to point on line N.0°03'W. of the cor. of secs. 32 and 33 on top of ledges and brink of mountain, 630 ft. above sec. cor., bears NE. and SW. Leave cedar and pinon timber and enter scattering yellow pine timber and mahogany and sagebrush undergrowth. Thence over rolling mountain top.
29.20	Enter scattering aspen timber, bears NW. and SE.
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 32 | S 33 1916 from which A yellow pine, 36 ins.diam.,bears S.44°E., 54 lks. dist.,marked ¼ S 33 B T A yellow pine, 24 ins.diam.,bears S.27°W., 23 lks. dist.,marked ¼ S 32 B T
58.00	Leave timber and mahogany undergrowth, bears NE. and SW.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 28,29,32 and 33, with brass cap marked T 18 S | R 7 E S 29 | S 28 S 32 | S 33 1916 Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, S. 9.56 chs. rough mountainous, S. exposure and drainage; remainder of mile rolling mountain top drains SW.
	Soil, shallow brown loam and rocky of sandstone formation on rocky sub-soil.
	Timber, cedar, pinon, yellow pine and aspen.

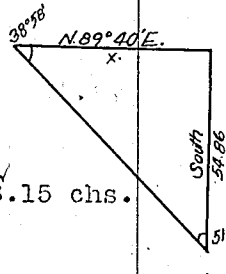
Subdivision of T.18 S.,R.7 E.

chains

Undergrowth, sagebrush and mahogany. Fair grazing on N. 71.00 chs.

East, on a random line bet. secs. 28 and 33

11.00 Break of mountain and top of impassable ledges over which I cannot chain, to determine distance I triangulate as follows: Being unable to obtain a base line at this point or at the base of the ledges or am I able to set a flag on line east, I set a point N.89°40'E. and erect a flag at this point. From my east point, measure a base line south 54.86 chs. to a point where angle bet. the east and west triangulation point is 51° 22'. From W. triangulation point angle bet. N. and S. ends of base is 38°58'., therefore



Log. 54.86 chs.		1.739256
Log sin 51° 22'		9.892739
		11.631995
Log sin 38°58'		9.798560
	.Log	1.833435 = 68.15 chs.

which added to 11.00 chs. gives

79.15 To point of triangulation. I now offset 40 lks. S. to true random line, thence run west 21 lks. to

78.94 Intersect N. and S. line 48 lks. N. of the cor. of secs. 27 and 28. The closing cor. of secs. 33 and 34 bears east 1.06 chs. from the cor. of secs. 27 and 28 thus making the distance of the N. bdy. of sec. 33, 80.00 chs.

Thence from cor. of secs. 27 and 28

N.89°39'W., on true line bet. secs. 28 and 33

Over rough, broken mountainous land through scattering cedar and pinon timber and undergrowth of shadscale. Gradually ascend along broken S. slope of ridge.

11.40 Spur, 145 ft. above sec. cor., projects S. Gradually descend along S. slope.

19.30 Ravine, 100 ft. below spur, course SE. Ascend abruptly over broken NE. slope over large sandstone boulders.

38.94 On broken NE. slope 400 ft. above ravine.

Subdivision of T.18 S.,R.7 E.

chains	
	Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground on solid rock and 20 ins. in a mound of stone for ¼ sec. cor., with brass cap marked ¼ S 28 / S 33 / 1916 from which A fir, 4 ins.diam.,bears S.77½°W., 291 lks. dist.,marked ¼ S 33 B T No other trees available. Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
67.94	Top of ledges and brink of mountain, 600 ft. above ¼ sec. cor., bears N. and S. Point of triangulation. Thence gradually descend over rolling mountain top.
78.94	The cor. of secs. 28,29,32 and 33. Land, E. 69 chs., rough broken E. break of mountain, E. exposure and drainage. W. 11.00 chs. rolling mountain top, drains SW. Soil, rocky of sandstone formation with some brown and blue clay soil on rocky sub-soil. Timber, scattering cedar and pinon. Undergrowth, shadscale.

	N.0°03'W., bet. secs. 28 and 29 Over rolling mountain top through short undergrowth of sagebrush.
28.30	Swale, level with sec. cor., course NW.
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.29 | S 28 1916 Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
67.80	Swale, course NW.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 6 ins. in

Subdivision of T.18 S.,R.7 E.

chains

the ground on solid rock and 18 ins. in a mound of stone for cor. of secs. 20,21,28 and 29, with brass cap marked

T 18 S S 20	R 7 E S 21
S 29	S. 28

1916

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

Land, rolling mountain top, general W. exposure and drainage.

Soil, shallow brown loam, gravelly and rocky of sandstone formation on hard, dry sand and rocky sub-soil.

No timber.

Undergrowth, sagebrush. Good grazing.

S.89°39'E., on a random line bet. secs. 21 and 28

19.22 Top of ledges and brink of mountain down which I cannot chain, therefore triangulate as follows:

Offset north 1.33⅓ chs. whence a point .80 chs. S.0°02'E. of the cor. of secs. 15,16,21 and 22. bears east. I set flag at point 80.00 chs. S.0°02'E. of the cor. of secs. 15,16,21 and 22 and from it measure another base line S.0°02'E. 41.31 chs. From point on top ledges angle bet cor. of secs. 15,16,21 and 22 and flag 80 chs. S. is 53°04'. From cor. of secs. 15,16,21 and 22 angle bet. E. and W. triangulation points is 36°58'. The angles of the south triangle are viz: from W. triangulation point angle bet. flag 80.00 chs. S.0°02'E. of cor. of sec.s. 15,16,21 and 22 and S. end of base is 34°31'. From S. end of base, angle bet. E. and W. triangulation points is 55°27'

53°04' East
East
34°31'

Log 80.00 chs.	1.903090	
Log sin 36°58'	9.779128	
	11.682218	
Log sin 53°04'	9.902729	
Log	1.779489	= 60.18 chs.
Log 41.31 chs.	1.616055	
Log sin 55°27'	9.915733	
	11.531788	

chains

Log sin 34°31' ---------- 11.631788
Log 9.753312
1.778476 = 60.04 chs.

The mean of 60.18 chs. and 60.04 chs. is 60.11 chs. which added to 19.22 chs. gives 79.33 chs., I now offset 1.70½ chs. south to true random line, thence N.89°39'W., 24 lks. to

79.09. Inter sect E. bdy. of sec. 27, 1.28 chs. S.0°02'E. of the cor. of secs. 22 and 27. At intersection,

Set an iron post, 3 ft. long, 2 ins. in dia., 18 ins. in the ground on solid rock and 6 ins. in a mound of stone for closing cor. of secs. 21 and 28, with brass cap marked

T 18 S | R 7 E
S 21
CC ——— S 27
S 28
1916

from which

A pinon, 12 ins.diam.,bears S.37°W., 93 lks. dist.,marked C C T 18 S R 7 E S 28 B T

A cedar, 20 ins.diam.,bears N.40¾°W., 79 lks. dist.,marked C C T 18 S R 7 E S 21 B T

Thence

N.89°39'W., on true line bet. secs. 21 and 28

Over rough mountainous land through scattering cedar and pinon timber and undergrowth of shadscale and brigham tea. Ascend abruptly over E. slope.

4.90 Edge of bench, bears NE. and SW. Enter scattering mahogany undergrowth, bears NE. and SW. Gradually ascend.

12.10 Leave bench, 225 ft. above sec. cor., bears NE. and SW. Descend abruptly over NW. slope.

14.80 Ravine, 75 ft. below bench, course NE.

Ascend abruptly over SE. slope 700 ft. to

39.09 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 21
S 28
1916

from which

.Subdivision of T.18 S.,R.7 E.

chains

A cedar, 5 ins.diam.,bears N.47¾°E., 44 lks. dist.,marked ½ S 21 B T

A pinon, 4 ins.diam.,bears S.58°E., 16 lks. dist.,marked ½ S 28 B T

Continue abrupt ascent.

59.87 Top of ledges and brink of mountain, 650 ft. above ¼ sec. cor. bears N. and S. Leave cedar and pinon timber, enter yellow pine timber and scattering mahogany undergrowth, bears N. and S. Thence over rolling mountain top.

67.00 Leave pine timber and mahogany undergrowth, bears NE. and SW.

79.09 The cor. of secs. 20,21,28 and 29

Land, E. 59.87 chs. rough broken E. break of mountain, E. exposure and drainage; W. 19.22 chs. rolling mountain top, slopes and drains W.

Soil, rocky of sandstone formation with some brown clay on hard, dry clay and rocky sub-soil.

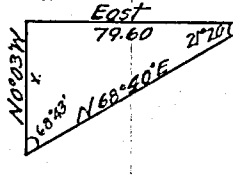
Timber, cedar, pinon and yellow pine.

Undergrowth, sagebrush, brigham tea and mahogany.

N.0°03'W., on a random line bet. secs. 20 and 21.

40.00 Set temp. ¼ sec. cor.

50.17 Top of ledges and break of mountain, down which I cannot chain. To determine the distance I triangulate as follows: I offset 32 lks. west and from this point the cor. of secs. 16 and 21, bears N.0°03'W. The cor. of secs. 15,16,21 and 22 bears N.68°40'E. Using the line bet. secs. 16 and 21 as a base the course of which is east and the distance 79.60 chs., I compute distance as follows:



Log 79.60 chs. ----------	1.900913
Log sin 21°20' ----------	9.560855
	11.461768
Log sin 68°43' ----------	9.969321
Log	1.492447 = 31.08 chs.

which added to 50.17 chs. gives

81.25 Intersect cor. of secs. 16 and 21. Point on true line falls 32 lks. E. of sec. cor.

chains

Thence

S.0°17'E., on true line bet. secs. 20 and 21.

Ascend abruptly over N. break of mountain over series of sandstone ledges 50 to 100 ft. high.

31.08 Top of ledges and brink of mountain 1200 ft. above sec. cor. bears E. and W. about 8 chs., thence NW. Point of triangulation. Thence over rolling mountain top through scattering yellow pine timber and dense undergrowth of mahogany and sagebrush.

36.25 Leave dense mahogany undergrowth, bears E. and W.

36.75 Ravine, 20 ft. below brink of mountain, course N.60°W.

41.25 Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground on solid rock and 20 ins. in a mound of stone for ¼ sec. cor., with brass cap marked

¼

S 20 | S 21

1916

from which

A yellow pine, 32 ins.diam., bears N.42½°E., 365 lks. dist., marked ¼ S 21 B T

A yellow pine, 26 ins.diam., bears S.79°W., 191 lks. dist., marked ¼ S 20 B T

72.65 Shallow draw, course N.60°W., heads E. about 4 chs.

81.25 The cor. of secs. 20,21,28 and 29.

Land, N. 31.08 chs., rough broken N. break of mountain, N. exposure and drainage; remainder of mile rolling mountain top, W. exposure and drainage.

Soil, shallow brown and blue clay and rocky of sandstone formation on gravelly and rocky sub-soil.

Timber, scattering yellow pine.

Undergrowth, sagebrush and mahogany.

From the cor. of secs. 4,5,8 and 9.

N.0°17'E., on true line bet. secs. 4 and 5.

Over mountainous land. Ascend abruptly over barren clay slope.

11.00 Slope becomes strewn with large sandstone boulders.

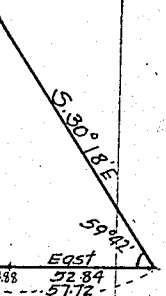
Subdivision of T.18 S.,R.7 E.

chains	
14.90	Enter scattering cedar and pinon timber and undergrowth of brigham tea, bears E. and W.
26.25	Top of ridge, 485 ft. above sec. cor., bears NE. and SW. Spur, projects SE. from ridge at this point. Leave timber, bears E. and W. Descend abruptly along steep W. slope.
37.80	Low saddle in ridge, 185 ft. below last ridge, bears N.20°W. and S.20°E. Gradually descend along E. slope.
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 5 | S 4 1916 Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
42.95	Begin abrupt ascent over rocky, broken SE. slope and break of mountain.
54.65	Sharp rocky spur, 300 ft. above ¼ sec. cor., projects S.75°E. Descend abruptly.
66.00	Deep gulch, 105 ft. below spur, course SE. Ascend abruptly over general S. slope.
75.40	Top of sandstone ledge about 175 ft. high, bears E. and W. W. of line about 2 chs. dist. ledge is covered by large slide and when ledge is again exposed it bears S.30°W. Continue abrupt ascent over ledges.
79.15	Base of perpendicular sandstone ledge about 200 ft. high, bears E. and W. Further measurement of this line is impossible. At this point, Set an iron post, 3 ft. long, 2 ins. in dia., 16 ins. in the ground on solid rock and 8 ins. in a mound of stone for witness cor. to the closing cor. of secs. 4 and 5 with brass cap marked T 17 S R 7 E S 33 S 5 | S 4 T 18 S | R 7 E WC CC 1916

Subdivision of T.18 S.,R.7 E.

chains	
	Raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor.
	To determine the distance to the offset on N. bdy. of the Tp. I proceed as follows:
	Being unable to see flags on offset on N. bdy. from this point or from the cor. of secs. 4,5,8 and 9 I measure west 4.88 chs. from the cor. of secs. 4,5,8 and 9 where a flag set 3.08 chs. west of the witness cor. to secs. 32 and 33 on offset N. bdy. of the Tp. bears north. From flag on N. bdy. tp. flag set at 52.84 chs. east of the cor. of secs. 4,5,8 and 9 bears S.30°18'E. and from E. end of base, flag bears N.30°18'W., therefore tan. 59°42' x base or 1.71129 x 57.72 chs. gives 98.78 chs. or on true line
98.78	Intersect offset N. bdy. of the Tp. 1.72 chs. east of the witness cor. to secs. 32 and 33.
	Land, rough, broken mountains and break of mountain, general S. exposure and drainage.
	Soil, rocky of sandstone formation with hard blue clay on rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, brigham tea.

	From the cor. of secs. 31 and 32 on the S. bdy. of the Tp. which is an iron post, 3 ins. in dia., extending 12 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	N.0°03'W., bet. secs. 31 and 32.
	Over rolling mountainous land through dense undergrowth of sagebrush and scattering service berry. Gradually ascend over SW. slope.
15.00	Bottom of swale, course at bend from N.50°W. to S.35°E. Gradually ascend over S. slope.
31.10	Spur, 135 ft. above swale, projects S.80°E. Gradually descend over N. slope.



Subdivision of T.18 S.,R.7 E.

chains	
34.70	Swale, 10 ft. below spur, course E. about 3 chs., thence SE. Gradually ascend over S. slope 15 ft. to
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 31 | S 32 1916 Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
61.90	Ascend abruptly over SE. slope of ridge.
76.20	Ridge, 420 ft. above ¼ sec. cor., bears NE. and SW. Enter scattering pine, fir and aspen timber, bears NE. and SW. Descend abruptly over N. slope 125 ft. to
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 and 32, with brass cap marked T 18 S | R 7 E S 30 | S 29 S 31 | S 32 1916 from which An aspen, 5 ins.diam.,bears N.20°E., 29 lks. dist.,marked T 18 S R 7 E S 29 B T A pine, 20 ins.diam.,bears S.79½°E., 249 lks. dist.,marked T 18 S R 7 E S 32 B T An aspen, 4 ins.diam.,bears S.56½°W., 39 lks. dist.,marked T 18 S R 7 E S 31 B T An aspen, 8 ins.diam.,bears N.3½°W., 77 lks. dist.,marked T 18 S R 7 E S 30 B T Land, rolling and rough mountains with general N. and S. exposures and drainage from ridge at 76.20 chs. Soil, brown loam, gravelly and rocky on moist loam and rocky sub-soil. Timber, aspen, pine and fir on northern portion. Undergrowth, sagebrush and service berry.

East, on a random line bet. secs. 29 and 32.

Subdivision of T.18 S.,R.7 E.

chains	
40.00	Set temp. ¼ sec. cor.
79.75	Intersect N. and S. line 28 lks. N. of the cor. of secs. 28,29,32 and 33.
	Thence
	N.89°48' W., on true line bet. secs. 29 and 32.
	Over rolling mountainous land through dense undergrowth of sage and scattering service berry brush. Gradually descend over W. slope.
10.40	Swale, 35 ft. below sec. cor., course SW., heads about 10 chs. NE. Gradually ascend over E. slope.
24.75	Ridge, 15 ft. above swale, bears NE. and SW. Gradually descend over W. slope.
39.00	Swale, 15 ft. below ridge, heads about 5 chs. N., drains S.20°E. Gradually ascend.
39.87½	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 29 / S 32 1916 Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
52.00	Spur, 105 ft. above ¼ sec. cor., projects SE. Descend abruptly over N. slope.
54.75	Head of swale, 15 ft. below ridge, course S. about 2 chs., thence SE. Ascend abruptly over SE. slope.
75.85	Ridge, 490 ft. above swale, bears NE. and SW. Enter scattering pine, fir and aspen timber, bears NE. and SW. Descend over NW. slope 140 ft. to
79.75	The cor. of secs. 29,30,31 and 32.
	Land, rolling mountain top, general SW. exposure and drainage.
	Soil, gray and brown loam, gravelly and rocky of sandstone formation, on hard dry sand and rocky sub-soil.
	Timber, scattering pine, fir and aspen on W. portion of mile.
	Undergrowth, sage and service berry brush. Good grazing.

Subdivision of T.18 S.,R.7 E.

Chains	
	Knowing that closing cors. will be necessary on the W. bdy. of the Tp., I run
	West, on true line bet. secs. 30 and 31
	Over rolling mountainous land through scattering fir and dense patches of aspen timber and undergrowth of scattering sage, service berry and buck brush. Gradually descend over NW. slope.
10.60	Leave fir timber, bears NE. and SW.
40.00	135 ft. below 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 30 / S 31 / 1916
	Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
66.90	Head of swale, course N.20°W. Leave aspen timber, bears N. and S. Gradually ascend over E. slope.
77.42	Intersect W. bdy. of the Tp. 5.22 chs. north of the cor. of secs. 25 and 36, E. bdy. T.18 S.,R.6 E. heretofore described. At intersection,
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 30 and 31, with brass cap marked
	T 18 S / R 6 E | R 7 E / S 30 / S 25 ——— CC / S 31 / 1916
	Raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor.
	Land, rolling mountainous, general N. exposure and drainage.
	Soil, brown loam, gravelly and rocky of sandstone formation on moist loam and gravelly sub-soil.
	Timber, aspen and fir.
	Undergrowth, sage, service berry and buck brush. Good grazing.

chains	
	N.0°03'W., bet. secs. 29 and 30
	Over rolling mountainous land through scattering aspen and fir timber and dense undergrowth of sage, scattering service berry and buck brush. Gradually descend over N. slope.
2.70	Leave timber, bears NE. and SW.
18.60	Ravine, 210 ft. below sec. cor., course N.60°W. Ascend abruptly over S. slope.
21.40	Spur, 30 ft. above ravine, projects N.60°W. Gradually descend over N. slope.
28.00	Top of small spur, projects N.60°W. about 3 chs.
31.20	Head of draw, 105 ft. below spur, course N.50°W. Gradually ascend over S. slope.
32.00	Spur, 40 ft. above draw, projects N.60°W. Gradually descend over N. slope.
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 S 30 | S 29 1916 Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
52.70	Draw, 90 ft. below ¼ sec. cor., course N.50°W. Gradually ascend over S. slope.
60.20	Low ridge, 20 ft. above draw, bears N.50°W. and SE. Gradually descend over N. slope.
69.70	Bottom of ravine and wash, 30 lks. wide, 12 ft. deep, 20 ft. below ridge, course N.50°W. Gradually ascend over S. slope 20 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 8 ins. in the ground on solid rock and 16 ins. in a mound of stone for cor. of secs. 19,20,29 and 30, with brass cap marked T 18 S | R 7 E S 19 | S 20 S 30 | S 29 1916

Subdivision of T.18 S.,R.7 E.

chains	
	from which
	A cedar, 6 ins.diam.,bears N.51½°W., 519 lks. dist.,marked T 18 S R 7 E S 19 B T
	A pinon, 16 ins.diam.,bears S.85½°W., 550 lks. dist.,marked T 18 S R 7 E S 30 B T
	No other trees are available.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, rolling mountain top, general W. exposure and drainage.
	Soil, gray and brown clay loam, gravelly and rocky of sandstone formation on gravelly and rocky sub-soil.
	Timber, aspen and fir on southern portion of mile.
	Undergrowth, sage, service berry and buck brush.
	Good grazing.

	S.89°48'E., on a random line bet. secs. 20 and 29.
40.00	Set temp. ¼ sec. cor.
79.66	Intersect N. and S. line 7 lks. N. of the cor. of secs. 20,21,28 and 29.
	Thence
	N.89°45'W., on true line bet. secs. 20 and 29.
	Over rolling mountainous land through dense undergrowth of sagebrush.
30.00	Enter scattering service berry brush, bears N. and S.
	Begin gradual descent over W. slope.
35.00	Enter scattering cedar and pinon timber, bears N. and S.
39.83	40 ft. below sec. cor.
	Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground and 20 ins. in a mound of stone on solid rock for ¼ sec. cor., with brass cap marked
	¼ S 20 / S 29 / 1916
	from which
	A pinon, 16 ins.diam.,bears N.81½°E., 390 lks. dist.,marked ¼ S 20 B T

Subdivision of T.18 S.,R.7 E.

chains	
	A mahogany, 7 ins.diam.,bears S.23½°W., 220 lks. dist.,marked ¼ S 29 B T
44.30	Enter scattering mahogany undergrowth, bears NW. and SE.
46.90	Edge of ravine, bears NW. and SE. Descend abruptly over SW. slope.
50.60	Bottom of ravine, 100 ft. below ¼ sec. cor., course NW. Enter aspen timber, bears NW. and SE. Ascend abruptly over NE. slope.
55.20	W. edge of ravine and leave aspen timber, bears NW. and SE.
60.60	Top of ridge, 55 ft. above ravine, bears NW. and SE. Gradually descend over W. slope 10 ft. to
79.66	The cor. of secs. 19,20,29 and 30
	Land, rolling mountain top, general W. exposure and drainage.
	Soil, brown sandy loam mixed with gravel and sandstone rock on hard, dry sand and rocky sub-soil.
	Timber, cedar, pinon and aspen.
	Undergrowth, sage, service berry and mahogany. Good grazing.

	West, on true line bet. secs. 19 and 30.
	Over rolling mountainous land through undergrowth of sage service berry and grass and scattering cedar and pinon timber. Gradually descend over W. slope.
17.40	Descend abruptly over SW. slope.
20.90	Bottom of ravine, 105 ft. below sec. cor., course N.50°W. Gradually ascend over NE. slope.
30.00	Ridge, 10 ft. above ravine, bears N.50°W. and S.50°E. Gradually descend over SW. slope, 35 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 8 ins. in the ground on solid rock and 18 ins. in a mound of stone for ¼ sec. cor., with brass cap marked
	¼ S 19 / S 30 / 1916
	Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of

Subdivision of T.18 S.,R.7 E.

chains	
	cor.
63.30	Descend abruptly over SW. slope.
64.90	Ravine, 145 ft. below ¼ sec. cor., course NW. Scattering aspen timber in ravine. Ascend abruptly over NE. slope.
68.20	Ascend more gradually.
77.21	Intersect W. bdy. of the Tp. 5.19 chs., north of the cor. of secs. 24 and 25, E. bdy. T.18 S.,R.6 E. heretofore described. At intersection,
	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 18 S R 6 E | R 7 E S 19 S 24 ——— CC S 30 1916
	Raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor.
	Cor. stands on E. slope, 125 ft. above ravine.
	Land, rolling mountain top, general NW. exposure and drainage.
	Soil, brown sandy loam, gravelly and rocky of sandstone formation on gravelly and rocky sub-soil.
	Timber, scattering cedar and pinon and patches of aspen and fir.
	Undergrowth, sage and service berry brush.
	Good grazing.

	N.0°17'W., bet. secs. 19 and 20
	Over rolling mountainous land through dense undergrowth of sagebrush and scattering service berry.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground on solid rock and 10 ins. in a mound of stone for ¼ sec. cor., with brass cap marked
	¼ S 19 | S 20 1916
	from which

Subdivision of T.18 S.,R.7 E.

chains

A pinon, 16 ins.diam.,bears S.88½°E., 321 lks. dist.,marked ½ S 20 B T

A service berry bush, 3 ins.diam.,bears N.74°W., 120 lks. dist.,marked ½ S 19 B T

51.70 Enter scattering cedar and pinon timber and dense mahogany undergrowth, bears SE. and W.

71.85 Top of sandstone ledge about 250 ft. high, bears SE. and NW. about 3 chs. thence N.30°W., also N. brink of mountain. It being impossible to continue north on true line, I offset as follows:

West, 7.03 chs., then on offset line

N.0°17'W., 8.15 chs., thence

East, 7.03 chs. to true line at

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 18 S S 18	R 7 E S 17.
S 19	S 20

1916

from which

A fir, 16 ins.diam.,bears N.76°E., 68 lks. dist.,marked T 18 S R 7 E S 17 B T

A fir, 12 ins.diam.,bears S.24½°E., 74 lks. dist., marked T 18 S R 7 E S 20 B T

A fir, 16 ins. diam.,bears S.53½°W., 50 lks. dist.,marked T 18 S R 7 E S 19 B T

A fir, 12 ins.diam.,bears N.33½°W., 38 lks. dist.,marked T 18 S R 7 E S 18 B T

Cor. established on NE. break of mountain 625 ft. below brink of mountain.

Land, S.71.85 chs. rolling mountain top, general N. exposure and drainage. N. 8.15 chs. rough broken N. break of mountain, N. exposure and drainage.

Soil, brown sandy clay loam, gravelly and rocky of sandstone formation on gravelly and rocky sub-soil.

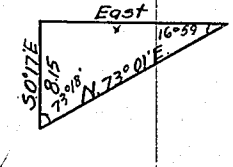
Timber, cedar, pinon. Some fir timber on N.8.15 chs.

Subdivision of T.18 S.,R.7 E.

chains

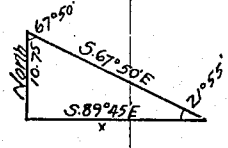
Undergrowth, sagebrush, service berry and mahogany.
Good grazing on S. 71.85 chs.

S.89°45'E., on a random line bet. secs. 17 and 20.
It being impossible to chain east from the cor. of secs. 17,18, 19 and 20 on account of series of high sandstone ledges, I triangulate as follows: Being unable to secure a base line of sufficient length to insure accuracy, I use two short bases and take the mean of the two triangulations for my distance.
From the cor. of secs: 17;18,19 and 20 a flag set on line bet. secs. 19 and 20, bears S.0°17'E., 8.15 chs. I now set a flag east on top of ledges, from which point S. end of base bears S.73°01'W. From S. end of base the flag bears N.73°01'E.



Log 8.15 chs. ---------- 0.911158
Log sin 73°18' ---------- 9.981285
10.892443
Log sin 16°59' ---------- 9.465522
Log 1.426921 = 26.73 chs.

From the cor. of secs. 17,18,19 and 20, I set a flag S.89°45'E. on top of ledges.(from this point, point of first triangulation is 30 lks. E. and 12 lks. N.) Then measure a base line north 10.75 chs. to point where flag bears S.67°50'E. From flag N. end of base bears N.67°50'W.



Log 10.75 chs. ---------- 1.031408
Log sin 67°50' ---------- 9.966653
10.998061
Log sin 21°55' ---------- 9.572009
1.426052 = 26.67 chs.

The distance to this triangulation point by first triangulation is 26.43 chs., therefore the mean bet. 26.43 and 26.67 chs. is

26.55 To point of triangulation.

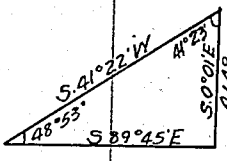
40.00 Set temp. ¼ sec. cor.

43.32 Top,of ledges and break of mountain, down which I cannot chain, to determine distance I triangulate as follows: Offset 21 lks. N., then set a flag S.89°45'E. on line 1.09 chs. S.0°01'E. of the cor. of secs. 16 and 21. ,

Subdivision of T.18 S.,R.7 E.

chains

this point being 41.48 chs. S.0°01'E. of the ¼ sec. cor. on the W. bdy. of sec. 16. From ¼ sec. cor. on W. bdy. of sec. 16, W. triangulation point bears S.41° 22'W. From triangulation point, ¼ sec. cor. bears N.41° 22'E.



Log 41.48 chs. ---------- 1.617639
Log sin 41° 23' ---------- 9.820263
11.438102
Log sin 48° 53' ---------- 9.877010
Log 1.561092 = 36.40 chs.

which added to 43.32 chs. gives

79.72 I now offset S. 21 lks. at which point, intersect W. bdy of sec. 21, 1.30 chs., S.0°17'E. of the cor. of secs. 16 and 21.

At intersection,

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 17 and 20, with brass cap marked

T 18 S | R 7 E
S 17
CC
S 20 | S 21
1916

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

Thence

N.89°45'W., on true line bet. secs. 17 and 20

Abrupt ascent over NE. break of mountain over series of sandstone ledges 50 to 200 ft. high bearing NW. and SE. and through cedar, pinon and fir timber.

36.40 Top of ledges and break of mountain, 1500 ft. above sec. cor., bears N.35°W. and S.35°E. Point of triangulation.

Thence across narrow point of mountain.

39.86 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 17
S 20
1916

from which

A pinon, 16 ins.diam.,bears N.28½°W., 27 lks. dist.,marked ¼ S 17 B T

chains	
	A pinon, 8 ins.diam.,bears S.43°W., 29 lks. dist.,marked ¼ S 20 B T
	Cor. stands in small basin on narrow point of mountain.
53.17	Top of ledges and break of mountain, bears N.20°E. and S.20°W. Point of triangulation. Abrupt descent over W. slope.
71.00	(Approximate topography only) Bottom of canyon, 600 ft. below break of mountain, course N. Outcroppings of coal are visible along canyon bottom.
	Ascend abruptly over E. slope 200 ft. to
79.72	The cor. of secs. 17,18,19 and 20.
	Land, rough, broken mountains on general N. break of high mountain, N. exposure a nd drainage.
	Soil, rocky of sandstone formation on rocky sub-soil.
	Timber, cedar, pinon and fir.
	Undergrowth, shadscale, mahogany and service berry brush.

	West, on true line bet. secs. 18 and 19.
	Over rough broken mountainous land through scattering pine and fir timber and undergrowth of mahogany and service berry brush. Ascend abruptly precipitous E. break of mountain over s eries of sandstone ledges.
6.50	Top of ledges and break of mountain, 565 ft. above sec. cor., bears NW. and S.30°E. Leave pine and fir, enter scattering cedar and pinon timber and sagebrush under-growth, bears with ledges. Gradually descend over W. slope of rolling mountain top.
40.00	95 ft. below brink of mountain.
	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 18 / S 19 / 1916
	from which
	A pinon, 12 ins.diam.,bears S.9½°E., 104 lks. dist.,marked ¼ S 19 B.T

chains

A pinon, 22 ins.diam.,bears N.7½°E., 160 lks. dist.,marked ¼ S 18 B T

74.20 Draw, 170 ft. below ¼ sec. cor., course NW.

Gradually ascend over NE. slope.

76.68 Intersect W. bdy. of the Tp. 5.13 chs. north of the cor. of secs. 13 and 24, E. bdy. T.18 S.,R.6 E. heretofore described. At intersection,

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 18 S
R 6 E | R 7 E
S 18
S 13 —— CC
S 19
1916

from which

A yellow pine, 24 ins.diam.,bears N.49½°E., 303 lks. dist.,marked C C T 18 S R 7 E S 18 B T

A pinon, 24 ins.diam., bears S.13½°E., 350 lks. dist.,marked C C T 18 S R 7 E S 19 B T

Cor. established 20 ft. above draw.

Land, E. 5.60 chs. rough broken mountainous on break of mountain; remainder of mile rolling mountain top with general W. exposure and NW. drainage.

Soil, brown sandy clay loam, gravelly and rocky of sandstone formation on rocky sub-soil.

Timber, cedar, pinon and scattering pine and fir.

Undergrowth, sagebrush, service berry and mahogany.

Good grazing on western portion of mile.

N.0°01'W.on random line bet. secs. 17 and 18.

40.00 Set temp. ¼ sec. cor.

81.40 Intersect E. and W. line 21 lks. E. of the cor. of secs. 7,8,17 and 18.

Thence

S.0°10'E., on true line bet. secs. 17 and 18.

Subdivision of T.18 S.,R.7 E.

chains	
	Over rough mountainous land along E. break of mountain through cedar and pinon timber and undergrowth of mahogany, service berry and sagebrush. Land strewn with large sandstone boulders. Descend abruptly.
1.10	Gulch, 25 ft. below sec. cor., course E.
	Ascend abruptly.
6.50	Spur, 65 ft. above gulch, projects E.
	Descend abruptly.
10.40	Ravine, 135 ft. below spur, course E.
	Ascend abruptly.
13.60	Spur, 135 ft. above ravine, projects E.
	Descend abruptly.
21.10	Ravine, 150 ft. below spur, course N.60°E.
	Ascend abruptly along steep E. slope.
41.40	365 ft. above ravine on steep E. slope.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{1}{4}$ S 18 | S 17 1916
	from which
	A pinon, 14 ins.diam.,bears N.24°W., 162 lks. dist.,marked $\frac{1}{4}$ S 18 B T
	No other trees available.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
49.20	Leave cedar and pinon timber and mahogany undergrowth, enter pine and fir timber, bears E. and W.
81.40	The cor. of secs. 17,18,19 and 20, 760 ft. above $\frac{1}{4}$ sec. cor.
	Land, rough broken mountains, General E. exposure and NE. drainage.
	Soil, rocky of sandstone formation with some shallow brown and blue clay on hard, dry clay and rocky sub-soil.
	Timber, cedar, pinon and fir.
	Undergrowth, mahogany, service berry, buck and sagebrush.

Subdivision of T.18 S.,R.7 E.

chains	
	Considerable grass but land is too steep for grazing.

	From the ¼ sec. cor. bet. secs. 7 and 18.
	West, on true line bet. secs. 7 and 18.
	Over rolling mountain top through scattering cedar and pinon timber and dense mahogany and sagebrush undergrowth. Gradually descend.
11.20	Draw, 75 ft. below ¼ sec. cor., course N. Gradually ascend.
18.70	Ridge, 30 ft. above draw, bears NW. and SE. Gradually descend over W. slope 45 ft. to
36.45	Intersect W. bdy. of the Tp. 6.32 chs. north of the cor. of secs. 12 and 13, E. bdy. T.18 S.,R.6 E. heretofore described. At intersection,
	Set an iron post, 3 ft. long, 2 ins. in dia., 8 ins. in the ground on solid rock and 16 ins. in a mound of stone for closing cor. of secs. 7 and 18, with brass cap marked

T 18 S
R 6 E | R 7 E
S 7
S 12 ——— CC
S 18
1916

from which

A pinon, 17 ins.diam.,bears S.63°E., 57 lks. dist.,marked C C T 18 S R 7 E S 18 B T

A mahogany, 4 ins.diam.,bears N.55½°E., 28 lks. dist.,marked C C T 18 S R 7 E S 7 B T

Land, rolling mountain top, general N. exposure and drainage.

Soil, shallow brown loam, gravelly and rocky of sandstone formation on gravelly and rocky sub-soil.

Timber, cedar and pinon.

Undergrowth, sagebrush and mahogany. Good grazing.

From the ¼ sec. cor. bet. secs. 6 and 7.

West, on true line bet. secs. 6 and 7.

Over rough broken mountainous land sloping and draining

chains	
	S. into Cottonwood creek through scattering cedar and pinon timber and undergrowth of brigham tea and mahogany. Ascend.
2.90	Spur, 40 ft. above ¼ sec. cor., projects SW. Descend abruptly over NW. slope.
5.30	Head of ravine, 70 ft. below spur, course SW. Thence along rough, broken S. slope, gradually ascending.
18.10	High rocky spur, 145 ft. above ravine, projects S. Gradually descend over broken W. slope.
25.00	Rocky ravine, 85 ft. below spur, course S. Ascend abruptly over ledges.
29.85	Top of sandstone ledge, 50 ft. high, bears S.70°W. and NE. about 2 chs., thence E..
31.21	10 lks. west of this point is the base of an impassable sandstone ledge point, bears NE. and SW. about 25 lks. to pass which I run
	S.59°W., 1.40 chs., then on offset line
	West, 3.59 chs., then
	North, .72 lks. to
36.00	To true line..
36.41	Intersect W. bdy. of the Tp. 6.57 chs. north of the cor. of secs. 1 and 12, E. bdy. T.18 S.,R.6 E. heretofore described. At intersection,
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a mound of stone on solid rock for closing cor. of secs. 6 and 7, with brass cap marked

T.18 S.
R 6 E | R 7 E
S 6
S 1 — CC
S 7
1916

from which

A pinon, 12 ins.diam.,bears N.19°E., 57 lks. dist.,marked C C T 18 S R 7 E S 6 B T

A pinon, 8 ins.diam.,bears S.86°E., 23 lks. dist.,marked C C T 18 S R 7 E S 7 B T

Cor. stands on steep S. slope, 125 ft. above ravine.

Subdivision of T.18 S.,R.7 E.

chains	
	Land, rough mountainous, general S. exposure and drainage.
	Soil, rocky of sandstone formation with some brown and blue clay on hard, dry clay and rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, brigham tea and mahogany.

	N.0°03'W., on true line bet. secs. 5 and 6.
	Over mountainous land through scattering cedar timber. Ascend abruptly over clay slope.
2.80	Point of spur, 90 ft. above sec. cor., projects SE. Thence gradually ascend along broken E. slope.
23.50	Point of spur, 295 ft. above last spur, projects NE. Descend abruptly.
28.60	Draw, 65 ft. below spur, heads about 4 chs. W., drains SE. Ascend abruptly.
31.75	Ascend more gradaully along E. slope near top of spur.
32.70	Enter dense scrub cedar and pinon timber, bears N.20°E. and S.20°W.
37.60	Spur, 135 ft. above draw, projects S.15°W. Gradually descend along broken W. slope.
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 6 | S 5 1916 from which A pinon, 8 ins.diam., bears S.38°W., 75 lks. dist., marked ¼ S 6 B T A pinon, 5 ins.diam., bears S.40½°E., 80 lks. dist., marked ¼ S 5 B T
41.75	Ravine, 25 ft. below ¼ sec. cor., course SW. Ascend abruptly over rocky S. slope.
49.90	Spur, 240 ft. above ravine, projects W. Leave dense timber and undergrowth, bears E. and W. Descend abruptly over N. and W. slopes.
54.00	Head of ravine, 115 ft. below spur, course NW

Subdivision of T.18 S.,R.7 E.

chains	
	Thence along steep rocky W. slope.
67.25	Descend abruptly over broken, rocky NW. slope.
71.80	Ravine, 255 ft. below spur, course W. about 2 chs., thence SW.
	Ascend abruptly over series of broken sandstone ledges, 50 to 200 ft. high.
81.58	Intersect N. bdy. of the Tp. 2.61 chs. S.89°56'E. of the cor. of secs. 31 and 32. At intersection,
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 5 and 6, with brass cap marked

T 17 S R 7 E
S 32
S 6 | S 5
T 18 S | R 7 E
CC
1916

from which

A pinon, 10 ins.diam., bears S.53¼°E., 130 lks. dist., marked C C T 18 S R 7 E S 5 B T

A pinon, 12 ins.diam., bears S.40¼°W., 39 lks. dist., marked C C T 18 S R 7 E S 6 B T

Cor. established on S. slope amongst ledges 490 ft. above ravine.

Land, rough broken mountains, general S. exposure and drainage.

Soil, blue clay and rocky of sandstone formation on rocky sub-soil.

Timber, cedar and pinon.

Undergrowth, shadscale and brigham tea.

Boundaries of T.18 S.,R.7 E

Latitudes, departures and closing errors.

Lines designated	True bearings	Distances	Latitudes N.	Latitudes S.	Departures E.	Departures W
S.bdy.T18SR7E	West	237.58	.....	.....	.....	237.58
W.bdy.T18SR7E	North	489.99	489.99	.....	.....	.....
S.bdy.T17SR6E	S.88°56'E.	22.74	.....	.42	22.74	.....
W.bdy.T17SR7E	South	6.68	.....	6.68	.....	.....
S.bdy.T17SR7E	East	10.46	.....	.....	10.46	.....
"	S.89°56'E.	80.96	.....	.09	80.96	.....
"	East	20.43	.....	.....	20.43	.....
"	N.0°03'W	17.05	17.05	.....	.....	.01
"	East	53.22	.....	.....	53.22	.....
"	S.0°03'E.	17.05	.....	17.05	.01	.....
"	S.89°32'E.	46.77	.....	.11	46.77	.....
"	N.89°58'E.	39.93	.02	.....	39.93	.....
"	East	39.91	.....	.....	39.91	.....
"	East	2.35	.....	.....	2.35	.....
E.bdy. sec.3	S.0°12'E.	41.19	.....	41.19	.14	.....
"	S.0°07'W.	40.10	.....	40.10	.....	.08
S.bdy.sec.3	S.89°33'W.	81.25	.....	.64	.....	81.25
S.bdy.sec.4	N.89°56'W.	39.97	.05	.....	.....	39.97
"	N.89°45'W.	40.01	.17	.....	.....	40.01
S.bdy.sec.5	N.89°57'W.	40.14	.03	.....	.....	40.14
"	N.89°58'W.	39.52	.02	.....	.....	39.52
E.bdy.sec.7	S.0°02'E.	40.21	.....	40.21	.02	.....
"	S.0°14'W.	40.00	.....	40.00	.....	.16
N.bdy.sec.17	East	39.83	.....	.....	39.83	.....
"	N.89°59'E.	39.93	.01	.....	39.93	.....
N.bdy.sec.16	N.89°58'E.	39.65	.02	.....	39.65	.....
"	N.89°43'E.	40.07	.20	.....	40.07	.....
E.bdy.sec.16	S.0°19'W.	40.29	.....	40.29	.....	.22
"	S.0°12'E.	40.35	.....	40.35	.14	.....
W.bdy.sec.22	S.0°20'W.	39.90	.....	39.90	.....	.23
"	S.0°03'E.	40.52½	.....	40.52	.04	.....
S.bdy.sec.22	S.89°03'E.	40.20	.....	.67	40.19	.....
"	S.89°45'E.	40.25	.....	.17	40.25	.....
E.bdy.sec.27	S.0°17'W.	40.40	.....	40.40	.....	.20
"	S.0°04'W.	40.12	.....	40.12	.....	.05
N.bdy.sec.34	West	79.07	.....	.....	.....	79.07
E.bdy.sec.33	S.0°02'E.	79.54	.....	79.54	.05	.....
Convergency			.....	.....	.28	.....
		Totals	507.56	508.45	557.37	558.49
				507.56		557.37
	Error in latitude	------		.89		
	Error in departure	----------				1.12

General Description

The land in this township varies from rolling mountain top to very rough and broken mountains. The soil of the mountain top which comprises the SW. portion of the township and which is called "The North Horn" is a semi rich brown and blue sandy clay loam, varying from a few inches to several feet in depth. The sub-soil is a blue clayand on a portion of this part of the township is only a few inches deep, lying on sand-stone bedrock. Most of the land is covered with a good growth of mountain grass which affords good grazing. A small spring in sec. 30 is the only water on this part of the township. Dense patches of yellow pine, pinon and cedar timber and sagebrush and mahogany and service berry brush are found on this part of the Horn.

From the"North Horn" the mountain breaks off abruptly to the east and north with series of sandstone ledges and blue clay slides and is about 2000 ft. from the top to the talus of the slope.

Straight canyon in which Cottonwood creek flows passes through the north central part of the township. This canyon is about 2000 ft. deep with very steep sides consisting of sandstone ledges and boulders and is covered with a moderatly dense growth of pinon and cedar timber. Cottonwood timber is found along the creek.

Cottonwood creek furnishes an abundant supply of clear water for all purposes and is used for irrigation along the creek in the surveyed portion of this township and in Castle valley to the east. The soil along the creek is a rich sandy loam. Numerous small alkali springs or seeps are found along the base of the mount-ains.

The west of the northern portion of this township consists of the south breaks of East mountain. This mountain is similar in all respects to the breaks of the "North Horn".

The general exposure of the lands in this township is to

the east.

At numerous places along the breaks of the mountains are found outcroppings of bituminous coal, some of which seems to be of good quality.

Howard W. Nieser
U. S. Surveyor.

Water locations T.18 S.,R.7 E.

Sec. 30

Sec. 6 ; E.½ and E.½ of W½.

Sec. 7; N.½

Howard M Leer
U.S. Surveyor

Volume
#
R0432

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Page

BOOK A-432

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.

CERTIFICATE

FINAL ~~OATH~~ OF UNITED STATES SURVEYOR. & TRANSITMAN

We, Lyman E. Bolinger, U. S. Transitman

I, Howard W. Miller, U. S. Surveyor, do ~~solemnly swear~~ certify on honor that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the 30th day of March, 1916, ~~I~~ we have well, faithfully, and truly, in ~~my~~ our 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 ret, and resurvey of the north boundary and subdivision and survey of the north boundary and subdivision of T.18 S.,R.7 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 ~~me~~ us, and under ~~my~~ our direction; and ~~I~~ we do further ~~solemnly swear~~ certify on honor 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.

and date diagram on page 1 and on dates shown on diagra

April 14, 1917 Howard W Miller
U. S. Surveyor.

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

Lyman E. Bolinger
U. S. Transitman.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 18, 1918

The foregoing field notes of the ~~survey of~~ retracement, resurvey and survey of north boundary and subdivision of Township No. 18 South, Range No. 7 East of the Salt Lake Base and Meridian, Utah,

executed by Howard W. Miller and Lyman E. Bolinger

under ~~his~~ special instructions dated March 30, 1916, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the retracements, resurveys, and 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.