Volume

#

R0437

BOOK A-437

U. S. Surveyor General's Office
MAR 1 1918
SALT LAKE CITY, UTAH

A.

FIELD NOTES

OF THE SURVEY OF THE

Retracement of the 108 th. and 109 th. miles Utah- Arizona State Boundary; retracement of subdivision; survey of the east boundary and survey of the subdivision of T.44 S.,R.3 W.

Of the Salt Lake Base and *Meridian,*

In the State of Utah

EXECUTED BY

Howard W. Miller

In the capacity of U. S. Surveyor, *under instructions dated* February 1, *1915, issued by the United States Surveyor General to govern surveys included in Group No.* 50, *which were approved by the Commissioner of the General Land Office,* March 25, *1916.*

Assignment instructions dated May 5, 1917.

Survey commenced May 20, *1917*

Survey completed August 3, *1917*

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

B Computations F.B.J.

Comparing

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

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INDEX DIAGRAM.

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INDEX DIAGRAM.

Township 4 S, Range 3 W.

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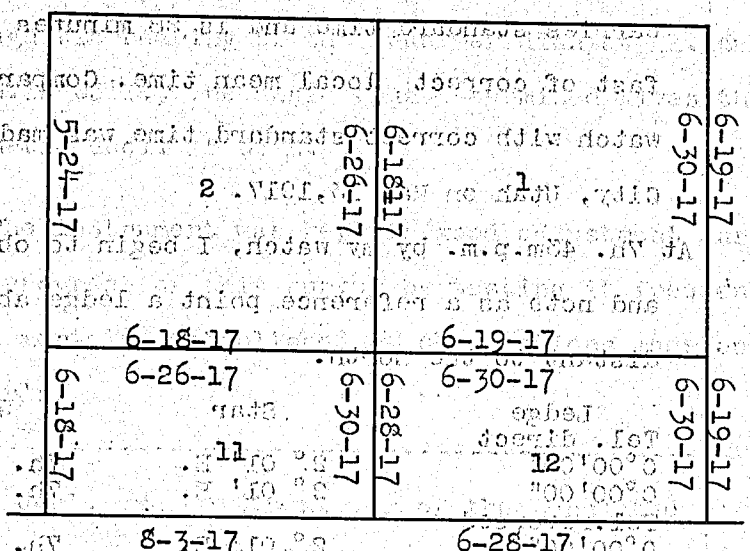
6—4817

Date diagram of T.44 S.,R.3 W.



Survey commenced May 20,1917 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 verniers of the latitiude and declination arcs and vertical circle.

The instrument was approved for use in this survey by the Assistant Supervisor of Surveys for Utah in assignment instructions dated May 5,1917.

I examine the adjustments of the transit and correct the level and collimation errors, then, to test the solar apparatus, by comparing its indications,

chains

resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations made on Polaris, I roceed as follows:

Station; SW¼ of sec. 35, T. 43 S.,R.4 W., approximate latitude 37°01½'N.; longitude 112°13½'W. My watch carries standard time and is 28 minutes 54 seconds fast of correct local mean time. Comparison of my watch with correct standard time was made in Salt Lake City, Utah on May 13,1917.

At 7h. 43m.p.m. by my watch, I begin to observe Polaris and note as a reference point a ledge about 12 miles distant to the north.

Ledge	Star	Watch time
Tel. direct		
0°00'00"	2° 01' E.	7h. 43m. 30s.p.m.
0°00'00"	2° 01' E.	7h. 44m. 25s.p.m.
Tel.reversed		
0°00'00"	2° 01' E.	7h. 46m. 00s.p.m.
0°00'00"	2° 01' E.	7h. 46m. 30s.p.m.
Mean	2° 01' E.	7h. 45m. 06s.p.m.
Watch fast		28m. 54s.
L.M.T. of obsn.		7h. 16m. 12s.
U. C. Polaris, May 20,1917		9h. 39m. 42s.a.m.
Corrected for long. of station, sub.		1m. 12s.
L.m.t. of U.C.Polaris of station		9h. 38m. 30s.a.m.
Hour angle of Polaris at obsn.		9h. 37m. 42s.
W. azimuth of Polaris		48' 40"
Add		2° 01' 00"
Ledge bears		N. 2° 49' 40" W.

May 20,1917.

May 21: At 8h. a.m. apparent time, I set off 37°01½' on the lat. arc; 20°12'N., on the decl. arc; and determine a meridian with the solar and find that the ledge bears N.2°50'W.

At apparent noon, with the instrument in the meridian, I set off 20°12'N., on the decl. arc; and observe the sun on the meridian; the resulting lat. is 37°01½'.

At 4h. p.m.apparent time, I set off 37°01½' on the lat. arc, 20°14'N., on the decl. arc; and determine a meridian with the solar and find that the ledge bears N.2° 50'W.

chains

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

The magnetic bearing of the true meridian at 8h.15m.a.m. is N.15°05'W., the angle thus determined gives the magnetic decl. 15°05'E.

Note:

The instrument was kept in good adjustment during the progress of this survey by testing it frequently on a meridian established by observations made on Polaris.

In the decl. arc settings, .82 of the tabulated refraction, used in computing declinations is used, allowance being made for the altitude of the country which is approximately 5854 ft.

Measurements.

A steel tape, 5 chs. long, together with a clinometer for determining slope angles is used in all measurements in this survey. The tape was 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. 2,3,10 and 11 which is an iron post, 2 ins. in dia., extending 12 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.

Thence

North, retracing bet. secs. 2 and 3.

Over mountainous land through scattering cedar and pinon timber and undergrowth of sagebrush and juniper.

Ascend over S. slope from bottom of Pine Hollow.

10.50 Point, 105 ft. above cor., falls SE. Thence along nearly

chains	
	E. slope, gradually descending.
18.50	Bottom of short draw, course E. Ascend over SE. slope.
37.50	Top of ridge and edge of rolling mountain top, 140 ft. above draw, bears E. and SW. Enter heavy pinon and cedar timber and service-berry and oak brush under-growth, bears E. and SW. Gradually descend.
39.89	Fall 21 lks. W. of the ¼ sec. cor. 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.
	The bearing of this ½ mile is N.0°18'E., and the distance is 39.89 chs.
	From ¼ sec. cor., I continue
	North
79.63	Fall 6 lks. W. of the cor. of secs. 2,3,34 and 35 on the N. bdy. of the tp. which is a limestone, 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.0°05'E., and the distance is 39.75 chs.
	Land, S. 37.50 chs., rough mountainous, general S. exposure and drainage to Pine Hollow which drains E. Remainder of mile, rolling mountain top, slopes and drains N.
	Soil, shallow brown sand, gravelly and rocky of limestone formation, on hard, dry sand and rocky sub-soil.
	Timber, cedar and pinon; very dense on N.½ mile.
	Undergrowth, sagebrush, juniper, service-berry and oak brush. Fair grazing.

	From cor. of secs. 2,3,10 and 11
	South, retracing bet. secs. 10 and 11.
	Over mountainous land through cedar and pinon timber and undergrowth of sagebrush, juniper and oak brush. Ascend from bottom of Pine Hollow over gentle N. slope.

chains	
22.85	Ridge, 100 ft. above cor., bears NE. and SW. Descend abruptly over SE. slope 75 ft. to
31.58	Fall 8 lks. E. of the closing cor. of secs. 10 and 11 on the Utah-Arizona State bdy., which is an iron post, 2 ins. in dia., extending 12 ins. above ground, firmly set and marked and witnessed as described by the surveyor general.
	The bearing of this ½ mile is S.0°09'W., and the distance is 31.58 chs.
	Land, mountainous, with general N. and S. slopes of ridge into hollows draining E.
	Soil, red and brown sand, gravelly and rocky of limestone formation, on gravelly and rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush, juniper, service-berry and oak brush.

East boundary of T.44 S.,R.3 W.

	From the cor. of Tps. 43 and 44 S.,Rs. 2 and 3 W., heretofore described.
	South, bet. secs. 1 and 6.
	Over mountainous land, through cedar and pinon timber and undergrowth of sagebrush, juniper, oak and service-berry brush. Descend.
2.90	Draw, 35 ft. below cor., course E. Junction of draws from the SE. and NW. about 1 ch. west. Ascend.
11.00	Ridge, 55 ft. above draw, bears E. and W. Gradually descend.
15.00	Shallow draw, course SE. Gradually ascend.
17.20	Ridge and brink of mountain, bears E. and W. Leave dense timber and undergrowth, bears E. and W. Descend abruptly over rocky and ledgy S. slope into Pine Hollow.
30.60	Ravine, 330 ft. below ridge, course SE. Ascend over NE.

chains	
	slope 165 ft. to
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
	¼ S 1 | S 6 1917
	from which
	A cedar, 6 ins.diam.,bears N.20°E., 9 lks. dist.,marked ¼ S 6 B T
	A cedar, 6 ins.diam.,bears N.70¾°W., 100 lks. dist.,marked ¼ S 1 B T
	Cor. stands on top of rocky spur, projects SE. into Pine Hollow.
42.20	Begin abrupt descent.
48.40	Bottom of Pine Hollow, 110 ft. below spur, course E. Ascend abruptly over ledges.
51.10	Leave ledges, bears E. and W. Continue abrupt ascent.
71.00	Ridge, 450 ft. above Pine Hollow, bears NE. and SW. Gradually descend over SE. slope 35 ft. to
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 44 S. R3W | R2W S1 | S6 S12 | S7 1917
	from which
	A cedar, 8 ins.diam.,bears N.25°E., 25 lks. dist.,marked T 44 S R 2 W S 6 B T
	A cedar, 10 ins.diam.,bears S.24°E., 73 lks. dist.,marked T 44 S R 2 W S 7 B T
	A cedar, 7 ins.diam.,bears S.20½°W., 123 lks. dist.,marked T 44 S R 3 W S 12 B T
	A cedar, 10 ins.diam.,bears N.75½°W., 60 lks. dist.,marked T 44 S R 3 W S 1 B T

chains	
	Land, N.17.20 chs., rolling mountain top; remainder of mile rough, broken mountains with general N. and S. slopes into hollows draining E.
	Soil, rocky, of limestone formation, on rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush and juniper with scattering patches of service-berry and oak brush.
	South, bet. secs. 7 and 12.
	Over mountainous land through cedar and pinon timber and undergrowth of sagebrush, juniper and scattering patches of service-berry and oak brush. Gradually descend along nearly E. slope.
5.10	Ravine, 10 ft. below cor., course N.30°E. Ascend.
12.20	Spur, 45 ft. above ravine, projects NE. Descend.
20.00	Ravine, 30 ft. below spur, course E. Ascend 65 ft. to
31.32	Intersect Utah - Arizona State Bdy. line, 25.00 chs. S.89°54'E. of the 109th. mile cor. hereinafter described. At intersection,
	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for closing cor. of secs. 7 and 12, Tp. 44 S.,Rs. 2 and 3 W., with brass cap marked

U
T44S
CC
R3W | R2W
S12 | S 7

A
1917

from which

A cedar, 7 ins.diam.,bears N.7½°E., 106 lks. dist.,marked C C T 44 S R 2 W S 7 B T

A cedar, 8 ins.diam.,bears N.27¼°W., 109 lks. dist.,marked C C T 44 S R 3 W S 12 B T

Land, rolling mountain top, general E. exposure and drainage.

Soil, shallow sandy loam, gravelly and rocky of limestone

chains

formation, on rocky sub-soil.

Timber, cedar and pinon.

Undergrowth, sagebrush and juniper with scattering patches of service-berry and oak brush. Fair grazing.

Subdivision of T.44 S.,R.3 W.

From the cor. of secs. 1,2,35 and 36 on the N. bdy. of the tp. heretofore described,

S.0°01'E., bet. secs. 1 and 2

Over rolling mountain top through dense cedar and pinon timber and undergrowth of sagebrush, juniper, service-berry and oak brush. Gradually ascend along gentle N. slope.

15.00 Ridge, 25 ft. above sec. cor., bears NE. and SW. Gradually descend.

35.60 Top of ridge and brink of mountain, bears NW. and SE. Leave dense timber and undergrowth, bears NW. and SE. Descend abruptly over steep S. slope.

40.00 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
S2 | S1
1917

from which

A cedar, 10 ins.diam.,bears N.24¾°E., 221 lks. dist.,marked ¼ S 1 B T

A pinon. 12 ins.diam.,bears S.86½°W., 211 lks. dist.,marked ¼ S 2 B T

Cor. stands on steep S. slope, 125 ft. below ridge. Continue abrupt descent.

45.00 Ravine, 65 ft. below cor., course SE. Gradually ascend over NE. slope.

54.00 Spur, 75 ft. above ravine, projects SE. Descend.

chains

71.00 Bottom of Pine Hollow and wash, 10 lks. wide, 1 ft. deep, 100 ft. below spur, course E. Gradually ascend over gentle N. slope.

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

T44S	R3W
S2	S1
S11	S12

1917

from which

A cedar, 18 ins.diam.,bears N.50½°E., 265 lks. dist.,marked T 44 S R 3 W S 1 B T

A pinon, 6 ins.diam.,bears S.68°E., 251 lks. dist.,marked T 44 S R 3 W S 12 B T

A cedar, 8 ins.diam.,bears S.78½°W., 403 lks. dist.,marked T 44 S R 3 W S 11 B T

A cedar, 20 ins.diam.,bears N.79°22'W., 394 lks. dist.,marked T 44 S R 3 W S 2 B T

Land, mountainous, N. 15.00 chs., rolling mountain top, general N. exposure and drainage; remainder of mile, rough, with N. and S. slopes into large hollow draining E.

Soil, shallow, dry, red sand, gravelly and rocky of limestone formation, on rocky sub-soil.

Timber, cedar and pinon. Very dense on northern portion, scattering on southern portion of mile.

Undergrowth, sagebrush, juniper, scattering oak and service berry brush. Fair grazing.

East, on a random line bet. secs. 1 and 12.

40.00 Set temp. ¼ sec. cor.

80.08 Intersect E. bdy. of the tp. 8 lks. N. of the cor. of secs. 1,6,7 and 12.

Thence

N.89°56'W., on true line bet. secs. 1 and 12.

chains	
	Over rough mountainous land through scattering cedar and pinon timber and undergrowth of sagebrush and juniper. Ascend.
3.20	Spur, 35 ft. above sec. cor., projects NE. Thence over broken land sloping N.
32.20	Begin steep descent, bears N. and S.
36.10	Draw, 50 ft. below top of steep descent, course N. Ascend.
38.10	Low point, falls N. Descend over ledges.
40.04	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 S1 / S 12 1917 from which A cedar, 6 ins.diam.;bears south, 83 lks. dist.,marked ¼ S 12 B T A cedar, 6 ins.diam.;bears N.71°E., 28 lks. dist.,marked ¼ S 1 B T
40.95	Ravine, 20 ft. below ¼ sec. cor., course N.15°E. Ascend abruptly.
45.60	Spur, 100 ft. above ravine, projects N. Descend.
61.05	Ravine, 70 ft. below spur, course N. Ascend.
68.60	Spur, 35 ft. above ravine, projects N. Descend.
77.80	Draw, 50 ft. below spur, course N. Thence across wide draw.
80.08	The cor. of secs: 1,2,11 and 12.
	Land, rough mountainous, general N. exposure and drainage.
	Soil, shallow, red, sandy clay loam, gravelly and rocky of limestone and quartz formation, on gravelly and rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush, juniper and scattering patches of oak and service-berry brush.

chains	
	West, on a random line bet. secs. 2 and 11.
40.00	Set temp. ¼ sec. cor.
86.68	Intersect N. and S. line 27 lks. S. of the cor. of secs. 2,3,10 and 11.
	Thence S.89°49'E., on true line bet. secs. 2 and 11.
	Over mountainous land through cedar and pinon timber and undergrowth of sagebrush and juniper. Gradually descend along bottom of Pine Hollow draining S.80°E.
9.20	Wide, shallow draw, course S. into Pine Hollow. Gradually ascend along broken S. slope.
36.60	Spur, 35 ft. above draw, projects S. Enter dense cedar and pinon timber, bears N. and S. Descend 35 ft. to
46.68	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 from which
	A cedar, 14 ins.diam., bears N.75½°E., 86 lks. dist., marked ¼ S 2 B T
	A cedar, 12 ins.diam., bears S.24°E., 33 lks. dist., marked ¼ S 11 B T
	Continue descent.
54.20	Bottom of Pine Hollow and wash, 3 ft. wide, 1 ft. deep, 50 ft. below ¼ cor., course NE. Ascend.
55.70	Point, 20 ft. above wash, falls N. From this point an earth dam about 50 ft. long across Pine Hollow wash, to convert water into a ditch course SE. and leading into a resevoir, bears N. about 2 chs. Gradually descend.
62.40	Old ditch, about 5 ft. wide, 3 ft. deep, course SE. about 3 chs. to resevoir.
64.20	Base of descent and S. edge of Bottom of Pine Hollow, 30 ft. below point, bears NE. and NW. Ascend.
69.20	Spur, 30 ft. above base of descent, projects N. Gradually descend 35 ft. to

chains	
86.68	The cor. of secs. 1,2,11 and 12.
	Land, mountainous with N. and S. slopes into hollow draining E.
	Soil, shallow, red and brown sandy loam, gravelly and rocky of limestone formation, on rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush, juniper and scattering service-berry.

	S.0°01'E., bet. secs. 11 and 12.
	Over mountainous land through dense undergrowth of sage-brush and juniper; scattering cedar amd pinon timber. Gradually ascend.
5.90	Enter dense cedar and pinon timber, bears E. and W.
18.00	Ridge, 150 ft. above sec. cor., bears NW. and SE. Descend.
22.70	Draw, 30 ft. below ridge, course NW. Ascend 100 ft. to
31.34	Intersect Utah - Arizona State Bdy., 24.70 chs., S.89° 56'E., of the 108th. mile cor. hereinafter described. 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. 11 and 12, with brass cap marked

U
C C
T44S | R3W
S11 | S12
A
1917

from which

A cedar, 6 ins.diam.,bears N.57°E., 10 lks. dist.,marked C C T 44 S R 3 W S 12 B T

A cedar, 8 ins.diam.,bears N.57½°W., 84 lks. dist.,marked C C T 44 S R 3 W S 11 B T

Land, mountainous, general N. exposure and drainage.

chains

Soil, shallow, red sandy loam, gravelly and rocky of limestone formation, on hard, dry sand and rocky subsoil.

Timber, cedar and pinon.

Undergrowth, sagebrush, juniper, scattering oak and service-berry brush.

Retracement of Utah-Arizona State Boundary
and
Establishment of ¼ sec. cors. for T. 44 S.,R.3 W.

The 108th. mile cor. on the Utah-Arizona Bdy. line is limestone, 18 x 16 x 8 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general.

From cor., I run

West

15.30 A westing of 40.00 chs. from the closing cor. of secs. 11 and 12, T.44 S.,R.3 W.

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. 11, T.44 S.,R.3 W. with brass cap marked

¼ S 11
1917

from which

A pinon, 12 ins.diam., bears N.35½°E., 14 lks. dist., marked ¼ S 11 B T

A pinon, 12 ins.diam., bears N.83½°W., 35 lks. dist., marked ¼ S 11 B T

From the 108th. mile cor. on Utah- Arizona State Bdy., I run

East, retracing the 109th. mile.

79.77 Fall 8 lks. N. of the 109th. mile cor. which is a limestone, 18 x 15 x 6 ins. above ground, firmly set, and marked and witnessed as described by the surveyor

chains	
	general.
	The bearing of this mile is therefore S.89°56'E., and the distance is 79.77 chs.
	Thence from 108th. mile cor. S.89°56'E., on 109th. mile
	Over mountainous land through cedar and pinon timber and undergrowth of sagebrush, juniper and scattering service-berry. Gradually ascend.
4.30	Spur, projects N. Descend.
7.40	Ravine, 60 ft. below spur, course NE. Ascend.
13.90	Spur, 75 ft. above ravine, projects N. Descend.
18.20	Ravine, 75 ft. below spur, course N. Ascend
23.10	Spur, 80 ft. above ravine, projects N. Descend.
31.10	Ravine, 85 ft. below spur, course N. Ascend abruptly.
42.00	Ridge, 150 ft. above ravine, bears N. and SE.
	Gradually descend along gentle N. slope.
63.10	Draw, 35 ft. below ridge, course N.
64.73½	Position midway bet. the closing cor. of secs. 11 and 12, and the closing cor. of Tps. 44 S., Rs. 2 and 3 W. heretofore described.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. on the S. bdy. sec. 12, T. 44 S., R.3 W., with brass cap marked
	¼ S 12 / 1917
	from which
	A cedar, 8 ins. diam., bears N.38½°E., 197 lks. dist., marked ¼ S 12 B T
	A cedar, 16 ins. diam., bears N.58°W., 36 lks. dist., marked ¼ S 12 B T
79.77	The 109th. mile cor.
	Land, mountainous, general N. exposure and drainage.
	Soil, shallow sandy loam, gravelly and rocky of limestone formation, on gravelly and rocky sub-soil.

Latitudes, departures and closing errors, T.44 S.,R.3 W.

chains

Timber, cedar and pinon.

Undergrowth, sagebrush, juniper, scattering service-berry and oak brush.

Latitudes, departures and closing errors,

T.44 S.,R.3 W.

Lines designated	True bearings	Dist-ances	Latitudes N	Latitudes S	Departures E	Departures W
		chs.	chs.	chs.	chs.	chs.
N.bdyT44SR3W	West	166.38	.....	.....	.....	166.38
W.bdy.sec.2	S.0°05'W.	39.75	.....	39.75	.....	.06
"	S.0°18'W.	39.89	.....	39.89	.....	.21
W.bdy.sec.11	S.0°09'W.	31.58	.....	31.58	.....	.08
108th.Mile,Ut. Ar.State Bdy.	East	62.18	.....	.....	62.18	.....
109th.mile,Ut. Ar.State Bdy.	S.89°56'E.	79.77	.....	.09	79.77	.....
110th.mile,Ut. Ar.State Bdy.	S.89°54'E.	25.00	.....	.04	25.00	.....
E.bdy.sec.12	North	31.32	31.32	.....	.....	.....
E.bdy.sec.1	North	80.00	80.00	.....	.....	.....
Convergency			.....	.....	.....	.04
			111.32	111.35	166.95	166.77
				111.32	166.77	

Error in lat. .03

Error in departure .18

General description.

This fractional township is rough and mountainous, lying on top of the east slope of the Buckskin mountains. It has a general E. exposure and drainage.

The soil is a shallow red and brown sandy loam, gravelly and rocky of limestone and quartz formation and lies on a very hard, dry sandy and rocky sub-soil.

Cedar and pinon timber is found on the entire township and is very dense on top of the ridges Sagebrush and juniper undergrowth predominate although there is considerable oak and service berry brush on all the slopes.

General description

There is not any water in this township.

There are no settlers in the township.

I find no indications of mineral in the township.

The land in this township is suitable for winter or spring grazing of sheep or cattle.

4—680

BOOK A-437

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.	PERFORMANCE.		CAPACITY
	~~XXXXX~~ capacity	ENDED.	
Thos. P. Lyons	chainman		
Frank Romney	chainman		
Leslie Cockrell	flagman		
Lowell Rosenvall	axman		
Arthur Waters	cornerman		
James Hill	cornerman		
Harold Evans	axman		
The above assistants were employed by me in the execution of the survey of T.44 S.,R.3 W.			

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

Howard W. Miller

U. S. Surveyor.

6—2761

CERTIFICATE
~~FINAL OATH~~ OF UNITED STATES SURVEYOR.

I, Howard W. Miller, U. S. Surveyor, ~~solemnly swear~~ certify on honor that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the 1st. 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 all those parts or portions of Retracement of the 108th. and 109th. miles, Utah-Arizona State Boundary, retracement of subdivision, survey of east boundary and survey of subdivision of T.44 S.,R.3 W. of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes and date diagram on page 1 and on dates as shown on diagram 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.

Howard W. Miller.
U. S. Surveyor.

January 23, 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, Oct. 30 1915.

The foregoing field notes of the ~~survey of~~ retracement of the 108th and 109th miles of the Utah-Arizona boundary; retracement of part of the subdivision; and survey of the east boundary and part of the subdivision of Township No. 44 South, Range No. 3 West of the Salt Lake Base and Meridian, Utah,

executed by Howard W. Miller
under ~~his~~ special instructions dated February 1, 1916, having been 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.

U. S. Surveyor General.

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U. S. Surveyor General's Office
MAR 1 1918
SALT LAKE CITY, UTAH

BOOK A-437

B.

FIELD NOTES

OF THE ~~SURVEY OF THE~~

Retracement of the east boundary; retracement and resurvey of the subdivision; survey of the south boundary; resurvey and survey of the east boundary of T.43 S.,R.3 W. and survey of the west boundary of T.43 S.,R.2 W.

Of the Salt Lake Base and *Meridian,*

In the State of Utah

EXECUTED BY

Howard W. Miller

and

Andrew Nelson

In the capacity of U. S. Surveyors, under instructions dated February 1, *1916, issued by the United States Surveyor General to govern surveys included in Group No.* 50, *which were approved by the Commissioner of the General Land Office,* March 25, *1916*

Assignment instructions dated May 5,1917

Supplement Assignment Instructions dated Oct. 27, 1918.

Survey commenced May 24, *1917*

Survey completed November 8, *1918*

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Examinations Classified

A Plat E.B.B. Notes E.B.B.

B Computations E.B.B.

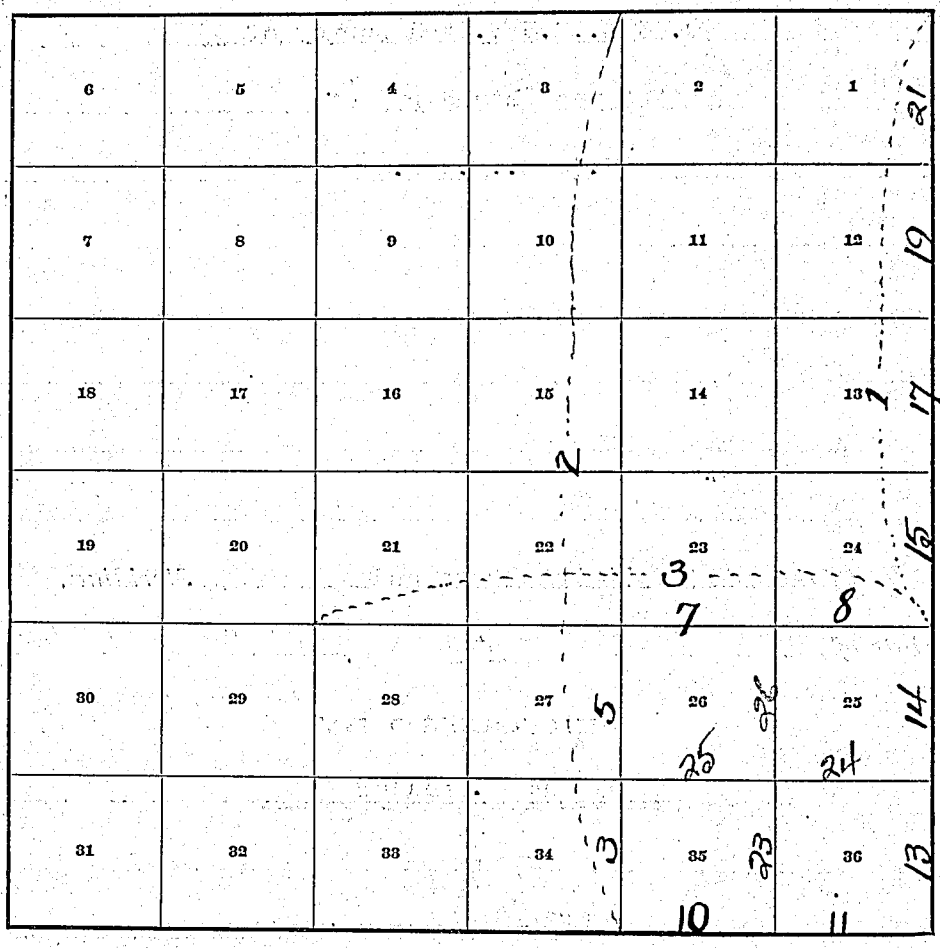
Comparing

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

BOOK A-437

INDEX DIAGRAM.

Township 43 South, Range 3 West



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INDEX DIAGRAM.

Township 43 S., Range 3 W.

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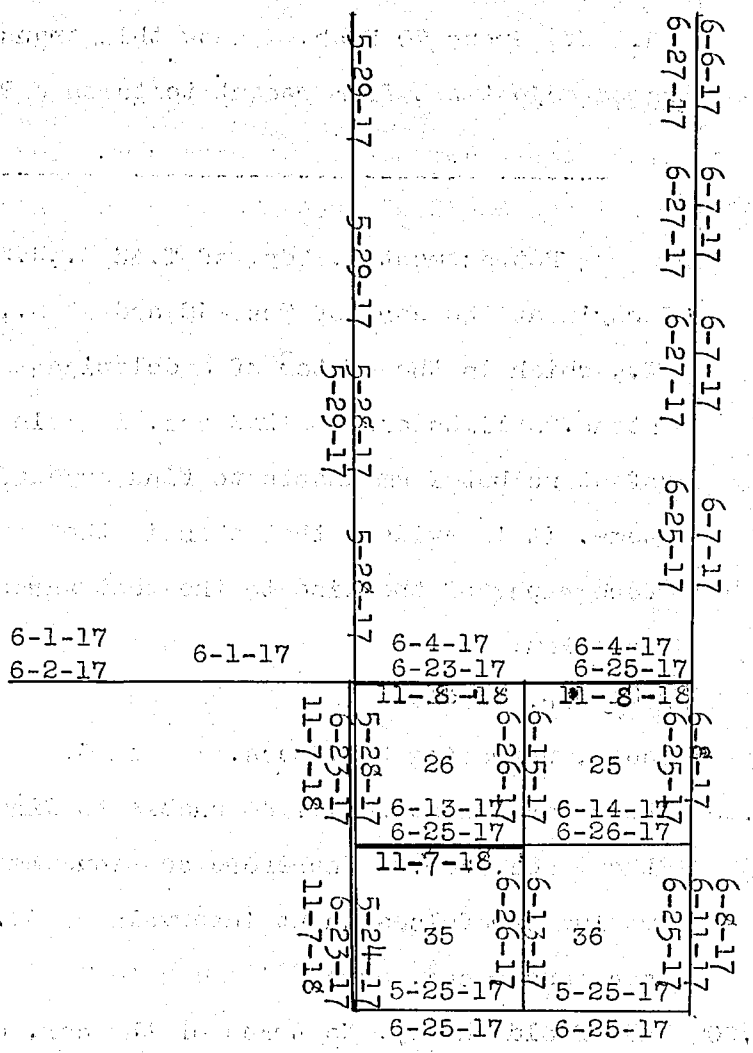
19	20	21	22	23	24	39
30	29	28	27 29	26 30 49	25 32 48	37
31	32	33	34 26 28	35 46	36	36
				34	35	

4817

Date diagram, T. 43 S., R. 3 W.



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

All lines dated and colored with red ink were surveyed by Andrew Nelson, U.S.Surveyor, using Miller's lines surveyed in 1917 for a base from which all true courses and distances were obtained.

Survey commenced May 24, 1917 and executed with a Buff and Buff light mountain transit No. 8964, used by Miller, and Young & Sons transit No. 8589, used by Nelson. Both transits equipt with Smith solar attachment and full

vertical circles. For complete description, test and approval of transit No. 8964, data for measurements, see survey of T.44 S., R.3 W. For description, test and approval of transit No. 8589, see survey of T.42 S., R.3 W., Group 70 Utah. I know this transit to be in good adjustment from recent tests on a Polaris meridian.

Retracement E. bdy. of T.43 S., R.3 W.

I begin at the cor. of Tps. 42 and 43 S., Rs. 2 and 3 W., which is the center of a delapidated mound of stone. A limestone 15x12x6 ins. is lying in this mound of stone but I am unable to find any definite marks on same. It is evident that this is the cor. as topography of the line to the west agrees with it's location.

From cor. I run

South, retracing bet. secs. 1 and 6.

40.00 After careful search, I am unable to find any trace of the ½ sec. cor. I therefore continue my line south, making carefulsearch at intervals of 40.00 chs. for sec. and ¼ sec. cors.

320.00 End of old survey. No trace of the cor. of secs. 19,24, 25 and 30 can be found. Set temp. cor.

Note: The true cor. of secs. 24 and 25 is later established at this point, for description of same see page 15 of these notes.

Retracement and resurvey of subdivision of T.43 S., R.3 W.

From the cor. of secs. 2,3,34 and 35 on the S. bdy. of the tp. heretofore described, I run

North, retracing bet. secs. 34 and 35.

40.00 No trace of the ¼ sec. cor. can be found. I continue my line north, making careful searches at intervals of 40.00 chains.

Retracement and Resurvey of subdivision of T.43 S.,R.3 W.

chains	
160.00	Set temp. point for cor. of secs. 22,23,26 and 27.
478.39	Fall 6.31 chs. west of the cor. of secs. 2,3,34 and 35 on N. bdy. of the tp. which is a limestone, 8 x 12 x 6 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	I return and adjust all temp. cors. on the south 160.00 chs. to their properproportionate meridional positions.
	From my point for cor. of secs. 22,23,26 and 27, 160.00 chs. north of the cor. of secs. 2,3,34 and 35 on S. bdy. of the tp., I set temp. point 2.10 chs. E. on meridional line. Thence
	S. 89° 56' W. retracing bet. secs. 22 and 27.
38.99	No trace of the ¼ sec. cor. can be found. I continue my line S.89° 56' W. and at
158.48	Fall 1.84 chs. north of the cor. of secs. 20,21,28 and 29 which is a limestone 12 x 10 x 8 ins., above ground, firmly set, and marked and witnessed as described by the surveyor general.
	From point 160.00 chs. north of the cor, of secs. 2,3,34 and 35 on the S. bdy. of the tp. and point for cor. of secs: 22,23,26 and 27, I run
	N. 89° 45' E. retracing bet. secs. 23 and 26.
40.02	No trace of the old ¼ sec. cor. can be found. I continue my line N.89° 45' E., and at
80.04	No trace of the ~~and~~ cor. of secs. 23,24,25 and 26. I continue my line east and at
156.04	Fall 2.13 chs. north of the cor. of secs. 19,24,25 and 30 on the E. bdy. of tp.
	I return and adjust all temp. cors on the east 2 miles to their proper proportional latitudinal positions.
	From temp. point for cor. of secs. 22,23,26 and 27 on the latitudinal line, the temp. point for said cor. on the meridional line bears 1.68 chs. west and 1.99 chs. north. I restore said cor. 1.68 chs. east of the temp. cor. on the meridonal line. For desc iption of same see resurvey of line bet. secs. 26 and 27.

meridional

chains

The course of the line bet. secs. 34 and 35 and 26 and 27 is N. 1° 21' E. and the distance for each mile is 80.02 chs.

The course of the line bet. secs. 23 and 26 is S. 89°30' E. and the distance is 81.15 chs.

The course of the line bet. secs. 24 and 25 is S.89°15'E. and the distance is 81.12 chs.

From the cor. of secs. 2,3,34 and 35 on the S. bdy. of tp. N. 1°21' E. resurveying bet. secs. 34 and 35.

Over rolling mountain top through dense cedar and pinon timber and undergrowth of sagebrush, juniper, scattered oak and service berry brush.

40.01 Proportionate measurement.

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

¼

S34 | S35

1917 from which

A pinon, 14 ins. diam., bears S.62°W., 36 lks. dist., marked ¼ S34 BT

A pinon, 8 ins. diam., bears N.11°E., 26 lks. dist., marked ¼ S35 BT

58.50 S. brink of wide shallow draw, bears NW. and SE.

Gradually descend.

65.50 Bottom of draw, 50 ft. below brink, course NW.

Gradually ascend over SW. slope.

76.00 N. brink of draw, 35 ft. above bottom, bears NW. and SE.

80.02 Proportionate measurement.

Set an iron post, 3 ft. long, 2 ins. dia., 10 ins. in ground to solid rock and 14 ins. in a mound of stone, for cor. of secs. 26,27,34 and 35, with brass cap marked

T43S | R3W

S27 | S26

S34 | S35

1917 from which

Chains	
	A cedar, 7 ins.diam.,bears N.20°E.,50 lks.dist., marked T43S R3W S26 BT
	A pinon, 8 ins.diam.,bears S.15°E.,67 lks.dist., marked T43S R3W S35 BT
	A pinon, 8 ins.diam.,bears S.71°W.,17 lks.dist., marked T43S R3W S34 BT
	A cedar, 7 ins.diam.,bears N.21¾°W.,98 lks.dist., marked T43S R3W S27 BT
	Land rolling mountain top, general N. exposure and drainage.
	Soil, shallow red and brown sandy loam, mixed with gravel and rock, limestone formation; on gravelly and rocky sub-soil.
	Timber, dense cedar and pinon.
	Undergrowth, sagebrush, juniper, scattered oak and service berry.

	N. 1° 21' E., resurveying bet. secs. 26 and 27.
	Over rolling mountainous land, through dense cedar and pinon timber and undergrowth of sagebrush, juniper and scattered oak and service-berry. Gradually descend over gentle N. slope.
14.50	A slight depression, drains NW.
36.50	Begin descent into draw, bears NW. and SE.
38.40	Bottom of draw, 35 ft. deep, course NW.
40.01	Proportionate measurement.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked
	¼ S27 | S26 1918 from which
	A cedar, 7 ins.diam.,bears N.9°E., 24 lks.dist., marked ¼ S26 BT
	A cedar, 16 ins.diam.,bears N.81°W., 17 lks.dist., marked ¼ S27 BT
	Gradually ascend.
52.00	Thence over gently rolling land.

Chains

80.02 Proportionate measurement.

Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in ground on solid rock and 4 ins. in mound of stone, for cor. of secs. 22,23,26 and 27, with brass cap marked

T43S	R3W
S22	S23
S27	S26

1918 from which

A cedar, 7 ins.diam.,bears N.45½°E.,166 lks.dist., marked T43S R3W S23 BT

A cedar, 5 ins.diam.,bears S.79°E.,23 lks.dist., marked T43S R3W S26 BT

A cedar, 7 ins.diam.,bears S.78½°W.,153 lks.dist., marked T43S R3W S27 BT

A cedar, 6 ins.diam.,bears N.77°W., 137 lks.dist., marked T43S R3W S22 BT

Land, mountainous, general N. exposure and drainage.

Soil, shallow, red sandy loam, gravelly and rocky of limestone formation, on gravelly and rocky sub-soil,

Timber, dense cedar and pinon.

Undergrowth, sagebrush, juniper, scattered service-berry and oak.

S. 89° 30' E., resurveying bet. secs. 23 and 26.

Over rolling mountainous land through cedar and pinon timber and undergrowth of sagebrush and juniper; a few scattered patches of oak and service-berry brush.

10.00 Shallow draw, drains, N.20° W.; gradually ascend over W. slope.

20.00 Low ridge, 85 ft. above draw, bears N.20° E. and S.20°W. Gradually descend over E. slope.

40.67½ Proportionate measurement.

Set an iron post, 3 ft. long, 1 in. dia., 20 ins. in the ground on solid rock and 6 ins. in mound of stone for the ¼ sec. cor. on the S. bdy. of sec. 23, with brass cap marked

Chains	
	¼ S 23 1917
	from which
	A cedar, 6 ins.diam.,bears N.16°E., 80 lks. dist., marked ¼ S23 BT
	A cedar, 7 ins.diam.,bears N. 30° W.,88 lks.dist., marked ¼ S23 BT
42.56	A westing of 40.00 chs. from the closing cor. of secs. 25 and 26.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for ½ sec. cor. on N. bdy. of sec. 26, with brass cap marked
	½ S26 1917
	from which
	A cedar, 10 ins.diam.,bears S.40¾° E.,181 lks. dist.,marked ½ S 26 BT
	a cedar, 8 ins.diam.,bears S. 8¼° W., 163 lks. dist.,marked ½ S 26 BT
43.20	Bottom of draw, 35 ft. below ridge, course N. to NE. Ascend abruptly.
45.50	Top of steep ascent; ascend more gradually.
49.00	Spur, 55 ft. above draw, projects N.20°E. Gradually descend over E. slope.
58.50	Draw, 40 ft. below spur, course NW.;ascend
72.00	Top of low ridge, 60 ft. above draw, bears N.20°E. and S.20°W.; descend.
79.80	Draw, 50 ft. below ridge, course N.20°E.; ascend W. slope.
81.15	Proportionate measurement.
	Set an iron post, 3 ft. long, 2 ins. dia., 12 ins. in the ground on solid rock and 12 ins. in a mound of stone for cor. of secs. 23 and 24, with brass cap marked
	T43S | R3W S23 | S24 1917
	from which

Retracement and resurvey of subdivision of T.43 S.,R.3 W.

Chains	
	A cedar, 7 ins.diam.,bears N.50½°E., 35 lks. dist., marked T43S R3W S24 BT
	A cedar, 7 ins.diam.,bears N. 67° W., 108 lks.dist. marked T43S R3W S23 BT
	Land mountainous, general N. exposure and drainage.
	Soil, shallow red and brown sandy loam, gravelly and rocky of limestone and quartz formation on gravelly and rocky sub-soil.
	Timber, dense cedar and pinon.
	Undergrowth, sagebrush and juniper with scattered patches of oak and service-berry.

	S. 89° 15' E., resurveying bet. secs. 24 and 25
	Over mountainous land through cedar and pinon timber and undergrowth of sagebrush, juniper, scattered oak and service-berry brush; ascend.
2.00	Spur, 30 ft. above cor., projects N.;descend.
9.35	Draw, 30 ft. below spur, course N.35°W.; ascend.
20.00	Spur, 120 ft. above draw, projects N.25°W. Gradually descend.
31.20	Draw, 35 ft. below spur, course N.20°W.;ascend abruptly.
34.75	Top of steep ascent, bears N.20°W. and S.20°E.
40.56	Proportionate measurement.
	Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground and 14 ins. in a mound of stone for ¼ sec. cor. on the S. bdy. of sec. 24, with brass cap marked
	¼ S24 / 1917 from which
	A cedar, 12 ins.diam.,bears N.49¾°E., 51 lks.dist., marked ¼ S24 BT
	A cedar, 6 ins.diam.,bears N. 69°W., 67 lks.dist., marked ¼ S24 BT
41.26½	Position midway bet. the closing cor. of secs. 25 and 26 and the cor of secs. 12,24, and 25 on the E. bdy. of tp.

Chains	
	Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in ground on solid rock and 20 ins. in a mound of stone, for ¼ sec. cor. on the N. bdy. of sec. 25, with brass cap marked
	¼ S25 1917
	from which.
	A pinon, 5 ins.diam.,bears S.12½° E., 49 lks.dist., marked ¼ S25 BT
	A cedar, 5 ins.diam.,bears S.35°E., 60 lks.dist., marked ¼ S25 BT
45.00	Low ridge, 25 ft. above ¼ sec. cor., brs. N. and S. Gradually descend.
49.60	Draw, 35 ft. below ridge, course N.: gradually ascend.
81.12	The cor. of secs. 19,24, and 25 on the E. bdy. of the tp. hereinafter described.
	Land, rolling and broken mountain top; general N. exposure and drainage.
	Soil, shallow, red and brown sandy loam, gravelly and rocky of limestone and quartz formation, on gravelly and rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush, juniper and scattered oak and service-berry brush.

	South boundary of T. 43 S., R. 3 W.
	From point for cor. of secs. 19,24,25 and 30 on the E. bdy. of tp., I run
	South, on temp. line along E. bdy. tp.
160.00	Set temp. cor. of Tps. 43 and 44 S., Rs. 2 and 3 W.
	Thence from temp. tp. cor.
	West, on random line along S. bdy. of T.43 S., R. 3 W.
166.38	Fall 1.78 chs. S. of the cor. of secs. 2,3,34 and 35.
	Thence from cor. of secs. 2,3,34 and 35.

Chains

East, on true line bet. secs. 2 and 35.

Over rolling mountainous land through dense cedar and pinon timber and undergrowth of sagebrush and juniper, with scattered patches of oak and service-berry brush.

35.25 Gradually descend over E. slope.

42.80 Bottom of draw, 35 ft. below top of descent, course N. Gradually ascend over very gentle W. slope. Small opening in timber in draw.

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

S.35
¼
S2
1917

from which

A cedar, 20 ins. diam., bears N.55½°E., 79 lks. dist., marked ¼ S35 BT

A pinon, 5 ins.diam., bears S.74½°W., 28 lks. dist., marked ¼ S2 BT

80.00 Top of ridge, 150 ft. above draw, bears N. and S. Gradually descend.

86.38 Set an iron post, 3 ft. long, 2 ins. dia., 6 ins. in the ground on solid rock and 18 ins. in a mound of stone for cor. of secs. 1,2,35 and 36, with brass cap marked

T43S S35	R3W S36
S2	S1

T44S
1917

from which

A pinon, 10 ins.diam., bears N.67°E., 54 lks. dist., marked T43S R3W S36 BT

A pinon, 10 ins.diam., bears S.27½°E., 104 lks. dist., marked T44S R3W S1 BT

A pinon, 8 ins.diam., bears S.60½°W., 49 lks. dist., marked T44S R3W S2 BT

A pinon, 7 ins.diam., bears N.18° W., 58 lks. dist., marked T43S R3W S35 BT

Chains	
	Land, rolling mountain top, general N. exposure and drainage.
	Soil, shallow sandy loam and gravelly, on rocky sub-soil; limestone formation.
	Timber, dense cedar and pinon.
	Undergrowth, sagebrush and juniper, with scattering patches of oak and service-berry brush.

	East, bet. secs. 1 and 36.
	Over rolling mountainous land through dense cedar and pinon timber and undergrowth of sagebrush, juniper, scattering oak and service-berry brush. Gradually descend.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked S36 ¼ ——— S1 1917
	from which
	A cedar, 8 ins.diam., bears S.7¾°E., 52 lks. dist., marked ¼ S1 BT
	A pinon, 12 i ns.diam., bears N.76½°W., 106 lks. dist., marked ¼ S36 BT
64.25	Shallow draw, drains N.10° E.
77.50	Draw, 35 ft. deep, course SE. Ascend 25 ft. to
80.00	Set an iron post, 3 ft. long, 3 ins. dia., 18 ins. in the ground on solid rock and 6 ins. in a moundxof stone for cor. of Tps. 43 and 44 S., Rs. 2 and 3 W., with brass cap marked T43S R3W | R2W S36 | S31 S1 | S6 T44S 1917
	from which

Chains

A cedar, 10 ins.diam.,bears N.41½°E., 86 lks. dist., marked T43S R2W S31 BT

A cedar, 12 ins.diam.,bears S.74½°E., 52 lks. dist., marked T44S R2W S6 BT

A pinon, 8 ins.diam.,bears S.28½°W., 139 lks. dist., marked T44S R3W S1 BT

A cedar, 8 ins.diam.,bears N.58½°W., 50 lks. dist., marked T43S R3W S36 BT

Land, rolling and broken mountain top, general N. exposure and drainage.

Soil, shallow brown sandy loam, gravelly and rocky of limestone formation, on gravelly and rocky sub-soil.

Timber dense cedar and pinon.

Undergrowth, sagebrush and juniper, with scattering patches of oak and serviceOberry brush.

Survey and resurvey of east boundary of T.43 S.,R.3 W.

and

Survey of west boundary of T.43 S., R.2 W.

From the cor. of Tps. 43 and 44 S., Rs. 2 and 3 W., North, on true line bet. secs. 31 and 36.

Over mountainous land through dense cedar and pinon timber and undergrowth of sagebrush and juniper.

Gradually ascend over S. slope.

15.30 Ridge, 50 ft. above cor., bears NE. and SW.; descend 35 ft.

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

S36 | S31

1917

from which

A cedar, 10 ins.diam.,bears N.59¾°E., 83 lks. dist., marked ¼ S31 BT

Chains

A cedar, 10 ins.diam.,bears N.54° W., 90 lks.
dist.,marked ¼ S36 BT

44.10 Draw, 15 ft. below ¼ sec. cor., course NE.

Thence over rolling and broken mountain top draining E.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 25,30,31 and 36, with brass cap marked

T43S

R3W	R2W
S25	S30
S36	S31

1917

from which

A pinon, 10 ins.diam.,bears N.65¼°E., 81 lks.
dist., marked T43S R2W S30 BT

A cedar, 7 ins.diam.,bears S.77¾°E., 86 lks.
dist., marked T43S R2W S31 BT

A cedar, 7 ins.diam.,bears S.48°W., 91 lks.
dist.,marked T43S R3W S36 BT

A cedar, 6 ins.diam.,bears N.52¾°W., 72 lks.
dist., marked T43S R3W S25 BT

Land, rolling and broken mountain top, general NE. exposure and drainage.

Soil, shallow,brown sandy loam, gravelly and rocky of limestone formation on gravelly and rocky sub-soil.

Timber, dense cedar and pinon.

Undergrowth, sagebrush and juniper with scattering patches of oak and service-berry brush.

North, on true line bet. secs. 25 and 30.

Over rolling and broken mountain top through dense cedar and pinon timber and undergrowth of sagebrush and juniper.

36.70 Ravine, 60 ft. deep, course NE. Ascend 40 ft. to

40.00 Set an iron post, 3 ft. long, 1 in. dia., 10 ins. in

Chains	
	the ground on solid rock and 16 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{1}{4}$ | S25 | S30 | 1917
	from which
	A pinon, 10 ins.diam.,bears N.53$\frac{1}{2}$°E., 37 lks. dist., marked $\frac{1}{4}$ S30 BT
	A cedar, 8 ins.diam.,bears N.46°W., 32 lks. dist., marked $\frac{1}{4}$ S25 BT
	Cor. stands on brink of ravine, bears NE. and SW.
56.60	Spur, projects E. Descend.
60.40	Draw, 60 ft. below spur, course E. Ascend.
63.60	Low, heavily timbered spur, 35 ft. above draw, projects E. Descend.
69.90	Small draw, drains E. Gradually ascend.
78.22	The point for cor. of secs. 19,24,25 and 30.
	Note: The range line north from this point is a resurvey for the east boundary of T.43 S., R.3 W. On account of the fractional distance of this mile and to avoid setting closing cors on this line for R.2 W. when subdividing T.43 S.,R.2 W., I continue setting corners referring to R. 2 W. at intervals of 40.00 chs., therefore, I re-establish the cor. of secs. 19,24,25 and 30 for the cor. of secs. 24 and 25, E. bdy. of T.43 S., R.3 W. as follows:
	Set an iron post, 3 ft. long, 2 ins. dia., 6 ins. in the ground on solid rock and 18 ins. in a mound of stone for cor. of secs. 24 and 25 E. bdy. of T.43 S., R. 3 W., with brass cap marked
	T43S S24 | S25 R3W | 1917
	from which

Chains

A cedar, 10 ins.diam.,bears S.51¼°W., 113 lks. dist., marked T.43S R3W S25 BT

A cedar, 12 ins.diam., bears N.60°W., 99 lks. dist., marked T43S R3W S24 BT

Land, mountainous, general NE. exposure and drainage.

Soil, hard, dry, sharp sand, gravelly and rocky of limestone formation, on gravelly and rocky sub-soil.

Timber, dense cedar and pinon.

Undergrowth, sagebrush and juniper, with scattering patches of service-berry and oak brush.

North, on true line bet. secs. 19 and 24.

Over mountainous land, through dense cedar and pinon timber and undergrowth of sage brush, juniper, scattering service-berry and oak brush. Gradually descend.

1.78 Northing of 40.00 chs. from the ¼ sec. cor. bet. secs. 25 and 30.

Set an iron post, 3 ft. long, 2 ins. in dia., 10 ins. in ground on solid rock and 14 ins. in a mound of stone for cor. of secs. 19 and 30, W. bdy. of T.43S., R. 2 W., with brass cap marked

T43S
S19

S30
R2W
1917

from which

A pinon, 14 ins.diam.,bears N.56½°E., 76 lks. dist., marked T43S R2W S19 BT

A pinon, 8 ins.diam.,bears S.53°E., 111 lks. dist., marked T43S R2W S30 BT

21.20 Draw, 125 ft. below sec. cor., course at bend from S.10°E. to NE. Ascend.

27.30 Ridge, 50 ft. above draw, bears NE. and SW.

Descend 60 ft. to

Resurvey and survey of east boundary of T.43 S.,R.3 W.
and
Survey of west boundary of T.43 S.,R.2 W.

Chains	
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. E. bdy. sec. 24, T.43S., R. 3 W., with brass cap marked ¼ S24 | 1917 from which A pinon, 8 ins. diam.,bears S.25½°W., 57 lks. dist., marked ¼ S24 BT A pinon, 8 ins.diam.,bears N.58°20'W.,41 lks. dist., marked ¼ S24 BT
41.78	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for ¼ sec. cor.,W. bdy. sec. 19, T.43S., R. 2 W., with brass cap marked ¼ S19 | 1917 from which A pinon, 8 ins.diam.,bears S.34°E., 95 lks. dist., marked ¼ S19 BT A pinon, 6 ins.diam.,bears S.12¾°E., 77 lks. dist., marked ¼ S19 BT
44.80	Ravine, 30 ft. below ¼ sec. cor., course NE. Ascend.
54.20	Ridge, 50 ft. above ravine, bears NE. and SW. Leave dense timber, enter heavier juniper undergrowth, bears NE. and SW. Descend.
71.80	Ravine, 130 ft. below ridge, course NW. Gradually descend along top of west side of spur.
80.00	On top of spur, projects N.20°W. Set an iron post, 3 ft. long, 2 ins. dia., 6 ins. in the ground on solid rock and 18 ins. in a mound of stone for cor. of secs. 13 and 24, E. bdy. T.43S., R. 3 W., with brass cap marked T43S S13 / S24 R3W | 1917

Chains	
	from which
	A cedar, 24 ins. diam.,bears S.71¼°W., 199 lks. dist.,marked T43S R3W S24 BT
	A cedar, 12 ins.diam.,bears N.74¼°W., 188 lks. dist..marked T43S R3W S13 BT
	Land, mountainous, general NE. exposure and drainage.
	Soil, shallow red sandy, very dry and hard and mixed with gravel and rock, limestone formation, on gravelly and rock sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush, juniper, scattering service-berry and oak brush.

	North, on true line bet. secs. 13 and 18.
	Over mountainous land, through scattering cedar and pinon timber and undergrowth of sagebrush, juniper, scattering oak and service-berry. Descend over general N. slope.
1.78	Set an iron pot, 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. 18 and 19, W. bdy. of T.43 S., R. 2 W., with brass cap marked
	T43S S18 S19 R2W 1917
	from which
	A cedar, 12 ins.diam.,bears N.22½°E., 358 lks. dist., marked T43S R2W S18 BT
	A cedar, 14 ins.diam.,bears S.19½°E., 255 lks. dist.,marked T43S R2W S19 BT
23.50	Draw, 160 ft. below sec. cor., course W.;ascend.
32.45	Spur, 25 ft. above draw,projects SW. Gradually descend.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground n solid rock and 6 ins. in a mound of

Chains	
	stone for ¼ sec. cor.,E. bdy. sec. 13, T.43S.,R.3 W., with brass cap marked ¼ S13 | 8 1917 from which A cedar, 8 ins.diam.,bears S.37½°W., 116 lks. dist.,marked ¼ S13 BT A cedar, 10 ins.diam.,bears N.30¼°W., 67 lks. dist.,marked ¼ S13 BT
41.78	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., W. bdy. sec. 18, T.43 S.,R.2 W., with brass cap marked | ¼ S18 1917 from which A cedar, 6 ins.diam.,bears N.77½°E., 95 lks. dist.,marked ¼ S18 BT A cedar, 8 ins. diam.,bears S.28½°E., 72 lks. dist., marked ¼ S18 BT
43.50	Ravine; 50 ft. below spur, course E. Ascend.
53.40	Ridge, 60 ft. above ravine, bears E. and W. DEscend.
60.20	Draw, 50 ft. below ridge, course NE. Ascend.
65.40	Spur, 50 ft. above draw, bears NE. Leave dense, enter very scattering timber and dense juniper undergrowth, bears NE. and SW. Gradually descend over N. slope, 100 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 3 ins. in the ground on solid rock and 21 ins. in a mound of stone for cor. of secs. 12 and 13, E. bdy. of T.43 S., R.3 W. with brass cap marked T43S | S12 S13 | R3 W 1917

Resurvey and survey of east boundary of T.43 S.,R.3 W.
and
Survey of west boundary of T.43 S.,R.2 W.

Chains	
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	No suitable trees available for bearing trees.
	Land, mountainous, general NE. exposure and drainage.
	Soil, shallow brown sandy loam, gravelly and rocky of limestone formation, on gravelly and rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush, juniper, scattering oak and service berry brush.

	North, on true line bet. secs. 7 and 12.
	Over mountainous land through very scattering cedar and pinon timber and undergrowth of sagebrush, juniper, oak and scattering service berry brush.
	Gradually descend over W. slope.
1.78	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a mound of stone on solid rock for cor of secs. 7 and 18, W. bdy. of T.43 S.,R.2 W., with brass cap marked
	T43S S7 S18 R2W 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. No suitable trees are available for bearing trees.
19.60	Draw, 85 ft. below cor., course NE. Gradually ascend.
25.00	Low spur, 15 ft. above draw, projects E.
	Descend abruptly.
36.10	Large draw, 120 ft. below spur, course N.35° W.
	Ascend over SW. slope.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for ¼ sec. cor., E. bdy. sec. 12, T.43 S., R. 3 W., with brass cap marked
	¼ S12 1917

Chains	
	Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	No suitable trees are available for bearing trees.
41.78	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 $\frac{1}{4}$ sec. cor., W. bdy. sec. 7, T.43 S.,R.2 W., with brass cap marked
	$\frac{1}{4}$ S7 1917
	from which
	A cedar limb, 6 ins.diam.,bears N.$16\frac{3}{4}$°E., 20 lks. dist., marked $\frac{1}{4}$ S7 BT
	A cedar, 7 ins. diam., bears S.$32\frac{3}{4}$°E., 20 lks. dist.,marked $\frac{1}{4}$ S7 BT
51.00	Low spur, 35 ft. above draw, projects NW. Descend.
55.80	Small gulch, 15 ft. below spur, course NW.
	Gradually ascend over SW. slope.
77.40	Low ridge, 50 ft. above gulch, bears NW. and SE.
	Thence over rolling mountain top, entering heavier timber.
80.00	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. 1 and 12, E. bdy. T.43 S.,R. 3 W. , with brass cap marked
	T43S S1 S12 R3W 1917
	from which
	A cedar, 7 ins. diam., bears N.31°W., 36 lks. dist., marked T43S R3W S1 BT
	A cedar, 5 ins. diam.,bears S.$33\frac{3}{4}$°W., 66 lks. dist., marked T43S R3W S12 BT
	Land, mountainous, general N. exposure and drainage.
	Soil, shallow sandy loam. gravelly and rocky of limestone formation, on gravelly and rocky sub-soil.

Chains	
	Timber cedar and pinon.
	Undergrowth, sagebrush, juniper, scattering oak and ~~ser~~ service-berry brush.

	North, on true line bet. secs. 1 and 6.
	Over rolling mountainous land through cedar and pinon timber and undergrowth of sagebrush and juniper.
1.78	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. 6 and 7, W. bdy. of T.43 S., R. 2 W., with brass cap marked
	T43S S6 S7 R2W 1917
	from which
	A cedar, 10 ins. in diam., bears N.50°E., 199 lks. dist., marked T43S R2W S6 BT
	A cedar, 16 ins.diam.,bears S.35°E., 73 lks. disr., marked T43S R2W S7 BT
40.00	Set an iron post, 3 ft. long, 1 in. dia., 8 ins. in the ground on solid rock and 18 ins. in a mouns of stone for ¼ sec. cor. E. bdy sec. 1, T.43 S.,R.3 W. with brass cap marked
	¼ S1 1917
	from which
	A cedar,8 ins. diam.,bears S.27½°W., 56 lks. dist., marked ¼ S1 BT
	A cedar,9 ins.diam.,bears N.8°W., 70 lks. dist., marked ¼ S1 BT
41.78	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.,W. bdy. sec. 6, T.43S.,R.2 W.,

Chains

with brass cap marked

$\frac{1}{4}$ S6
1917

from which

A cedar, 8 ins.diam.,bears N.44°E., 64 lks. dist., marked $\frac{1}{4}$ S6 BT

A cedar, 6 ins.diam.,bears S.84°E., 96 lks. dist., marked $\frac{1}{4}$ S6 BT

80.00 The cor. of Tps. 42 and 43 S., Rs. 2 and 3 W. I re-establish cor. as follows: At exact position of old cor. Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in a mound of stone on solid rock for cor. of Tps. 42 and 43 S., Rs. 2 and 3 W., with brass cap marked

T42S
R3W | R2W
S36 | S31
S1 | S6
T43S
1917

Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor.

No trees suitable for bearing trees.

Land, rolling mountain top, general N. exposure and drainage.

Soil, shallow sandy loam, gravelly and rocky, on rocky sub-soil; limestone formation.

Timber, cedar and pinon.

Undergrowth, sagebrush and juniper.

Subdivision of T.43 S.,R. 3 W.

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

N. 0°01' W., bet. secs. 35 and 36.

Over rolling mountain top through dense cedar and pinon timber and undergrowth of sagebrush, juniper and scatter-

Chains	
	ed patches of oak and service-berry brush.
	Gradually descend along E. slope of flat ridge, bearing N. and S.
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

S35 | S36

1917

from which

A cedar, 7 ins.diam.,bears N.48½°E., 23½ lks. dist.,marked ¼ S36 BT

A cedar, 10 ins.diam.,bears S.50¾°W., 61 lks. dist.,marked ¼ S35 BT

	Cor. stands in west side of bottom of shallow draw, draining N. Thence along bottom of draw.
56.00	Draw turns to N.35°W.; begin gradual ascent over SW.slope.
68.00	Low point, 15 ft. above draw, falls NW.
	Thence along rolling W. slope.
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

T43S	R3W
S26	S25
S35	S36

1917

from which

A pinon, 6 ins.diam.,bears N.72¾°E.,36½ lks. dist.,marked T43S R3W S25 BT

A pinon, 8 ins.diam.,bears S.47½°E., 62 lks. dist.,marked T43S R3W S36 BT

A pinon, 7 ins.diam.,bears S.35¾°W., 28 lks. dist.,marked T43S R3W S35 BT

A pinon,12 ins.diam.,bears N.67½°W., 93 lks. dist.,marked T43S R3W S26 BT

	Land, rolling mountain top, general N. exposure and drainage.

Chains	
	Soil, shallow red and brown sandy loam, gravelly and rocky of limestone formation, on gravelly and rocky sub-soil.
	Timber, dense cedar and pinon.
	Undergrowth, sagebrush, juniper, scattered service-berry and oak brush.
	East, on a random line bet. secs. 25 and 36.
40,00	Set temp. ¼ sec. cor.
79.90	Intersect E. bdy. of tp., 5 lks. S. of the cor. of secs. 25,30,31 and 36.
	Thence,
	S. 89°58' W., on true line bet. secs. 25 and 36.
	Over rolling mountain top, through dense cedar and pinon timber and undergrowth of sagrbrush and juniper, scattering oak and service-berry brush.
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

S25
¼
S36
1917

from which

A cedar, 8 ins. diam., bears S.53°E., 56 lks. dist., marked ¼ S36 BT

A cedar, 22 ins. diam., bears N.39½°W., 27 lks. dist., marked ¼ S25 BT

43.40	Shallow depression, drains N.10°W. Gradually ascend.
47.40	Low ridge, bears N. and S. Gradually descend.
49.80	Top of steep descent, bears N. and S. Descend abruptly.
54.20	Draw, 55 ft. below ridge, course N. Ascend abruptly.
62.40	Low ridge, 65 ft. above draw, bears N. and S. Gradually descend over W. slope, 35 ft. to
79.90	The cor. of secs. 25, 26, 35 and 36.
	Land, mountainous, general N. exposure and drainage.

Subdivision of T. 43 S.,R. 3 W.

Chains	
	Soil, shallow red sand, mixed with gravel and rock of limestone formation, on gravelly and rocky sub-soil.
	Timber, dense cedar and pinon.
	Undergrowth, sagebrush, juniper, scatterind oak and service-berry brush.

	West, on random line, bet. secs. 26 and 35.
40.00	Set temp. ¼ sec. cor.
84.50	Intersect N. and S. line, 12 lks. N. of cor. of secs. 26,27,34 and 35.
	Thence,
	N. 89°55' E., on true line bet. secs. 26 and 35.
	Over rolling mountainous land, draining N., through dense cedar and pinon timber and undergrowth of sagebrush, juniper, service-berry and oak brush. Gently descend.
12.50	Draw, course N.; gradually ascend 50 ft. to
29.00	Top of ridge, bears N. and S. Descend very gradually.
35.50	Top of west brink of draw, bears NW. and SE. Descend
43.10	Bottom of draw, 50 ft. below W. edge, course N.35°W. Ascend.
44.50	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
	S26 / ¼ ——— / S35 1917
	from which
	A cedar, 10 ins. diam., bears N.30°W., 160 lks. dist., marked ¼ S26 BT
	A cedar, 6 ins. diam., bears S.5¼°E., 71 lks. dist., marked ¼ S35 BT
48.50	E. brink of draw, 50 ft. above bottom, bears N.30°W and S.30°E. Gently ascend.
63.60	Ridge, bears N. and S.; descend 40 ft. to
70.00	Small draw, course NE.

Chains	
73.40	Small draw, course N.20°E. Gradually ascend.
84.50	The cor. of secs. 25,26,35 and 36.
	Land, mountainous, general N. exposure and drainage.
	Soil, shallow, dry, red sandy clay loam, gravelly and rocky of limestone formation, on rocky-sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush, juniper, oak and service-berry brush.

	Knowing from retracements that a closing cor. will be necessary against S. bdy. of secs. 24, I run N. 0°01' W., on true line, bet. secs. 25 and 26.
	Over rolling mountainous land, through dense timber of cedar and pinon, undergrowth of sagebrush, juniper, oak and service-berry brush. Gradually descend over general N. slope.
40.00	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 S26 | S25 1917
	from which
	A pinon, 8 ins. diam., bears N.49¾°E., 54 lks. dist., marked ¼ S25 BT
	A pinon, 6 ins. diam., bears N.26¼°W., 50 lks. dist., marked ¼ S26 BT
70.00	Begin descent over NW. slope into draw.
79.12	Intersect S. bdy. of sec. 24, 1.41 chs. S. 89°15'E. of the cor. of secs. 23 and 24. 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. 25 and 26, with brass cap marked
	T43S R3W S24 S26 | S25 CC 1917

Chains

from which

A cedar, 9 ins.diam.,bears S.69°E., 123 lks.

dist.,marked CC T43S R3W S25 BT

A pinon, 8 ins.diam.,bears S.13°W., 107 lks.

dist.,marked CC T43S R3W S26 BT

Land, mountainous, general N. exposure and drainage.

Soil, shallow brown sandy loam, gravelly and rocky of limestone formation, on gravel and rock sub-soil.

Timber, dense cedar and pinon.

Undergrowth, sagebrush, juniper, scattering oak and service-berry brush.

Boundaries of T. 43 S., R. 3 W.

Latitudes, departures and closing errors.

lines designated	True bearing	Distance	Latitudes		Departures	
			N	S.	E.	W.
			chs.	chs.	chs.	chs.
E.bdy.sec.34	N. 1°21'E	80.02	80.00	-----	1.88	-----
E " " 27	N. 1°21'E	80.02	80.00	-----	1.89	-----
S. " " 23	S.89°30'E	80.15	-----	.71	80.15	-----
S. " " 24	S.89°15'E	80.12	-----	1.06	80.11	-----
E. " " 25	South	78.22	-----	78.22	-----	-----
E. " " 36	South	80.00	-----	80.00	----	-----
S.bdy T.43S. R.3 W.	West	166.38	-----	-----	-----	166.38
Convergency			----	-----	.06	-----
			160.00	159.99	166.09	166.38
			159.99			166.09
Error in lat. --			0.01			
Error in departure ----------						0.29

General Description.

This fractional township lies on top of the Buckskin mountains and consists of rolling mountainous land, having a general N. exposure and drainage. The soil is a shallow, red & brown sandy clay loam, heavily mixed with gravel and rock of limestone formation, on a very rocky sub-soil.

The land is covered with a rank growth of cedar and pinon timber and undergrowth of sagebrush, juniper and scattering oak and service-berry brush.

There is no water in the township.

General Description of T.43 S.,R.3 W.

I do not find any inddcations of mineral in the tp.

This township is suitable for winter grazing of sheep and cattle.

There are no settlers in the tp.

4—680

BOOK A-437

FIELD ASSISTANTS.

NAMES.	CAPACITY.

0—2764

CERTIFICATE OF UNITED STATES SURVEYOR.

I, Andrew Nelson, U. S. ~~Surveyor~~ Transitman, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General for Utah, bearing date of the 1st 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 all those parts or portions of Resurvey and survey of the subdivisions of T. 43 S., R. 3 W., of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes and date diagram page 1 as having been executed by me, and under my direction on dates shown on diagram and 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.

Dec. 14, 1918 Andrew Nelson
~~U. S. Surveyor.~~ Transitman

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
Salt Lake City, Utah, December 18, 1918.

The foregoing field notes of the ~~survey of~~ resurvey and survey of the subdivision of T. 43 S., R. 3 W. S. L. B. and Mer., Utah.

executed by Andrew Nelson,

under his special instructions dated February 1, 1916, having been critically examined, and the necessary corrections and explanations made, the said field notes and resurveys, 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—2764

BOOK A-437

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 .....

.....

.....

.....

.....

.....

.....

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.	~~PERIODS OF SERVICE.~~		~~EXPENSES~~.
	~~BEGIN~~ Capacity	~~END~~	
Thos. P. Lyons	1st. chainman		
Frank Romney	2nd. chainman		
Leslie Cockrell	flagman		
Lowell Rosenvall	axman		
Arthur Waters	axman		
Harold Evans	flagman		
The above assistants were employed by me in the execution of the survey of T.43 S., R.3 W.			

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

Howard W. Miller

U. S. Surveyor.

6—2764

FINAL OATH OF UNITED STATES SURVEYOR.

I, Howard W. Miller, U. S. Surveyor, do ~~xxxxxxxxxx~~ certify on honor that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the 1st. 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 all those parts or portions of Resurvey of subdivision, survey of the south boundary, resurvey and survey of the east boundary and survey of the subdivision of T.43 S.,R.3 W. and survey of the west boundary of T.43 S.,R.2 W. of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes and date diagram on page 1 as having been executed by me, and under my direction; and I do further on dates as shown on said diagr certify on honor ~~xxxxxxxxxx~~ 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

January 30,1918 *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, December 18, 1918

The foregoing field notes of the ~~xxxxxxx~~ resurvey of subdivision, survey of the south boundary, resurvey and survey of the east boundary and survey of the subdivision of T. 43 S. R. 3 W. and survey of the west boundary of T. 43 S., R. 2 W. Salt Lake Base and Meridian, Utah.

executed by Howard W. Miller under his special instructions dated February 1, 1916, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the retracements and resurveys surveys they describe, are hereby approved.

[signature]
U. S. Surveyor General.

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

U. S. Surveyor General.

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BOOK A-437

U. S. Surveyor General's Office
MAR 20 1918
SALT LAKE CITY, UTAH.

FIELD NOTES

OF THE ~~SURVEY OF THE~~

Resurvey of the north and east boundaries
and survey of the south and east
boundaries and subdivision
of T. 43 S., R. 2 W.

Of the Salt Lake Base and *Meridian,*

the State of Utah

EXECUTED BY

Howard W. Miller, U. S. Surveyor
and
Andrew Nelson, U. S. Transitman

~~the capacity of U.S. Surveyor~~, *under instructions dated* February 1, *1916,*

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

up No. 50, *which were approved by the Commissioner of the General Land*

ce, March 25, *1916.*

ignment instructions dated May 5,1917 and supplemental assignment
tructions dated July 25, 1917.

Survey commenced June 4, *1917.*

Survey completed September 11 *1917*

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Examined and Found

A Plat E.B.B. Notes E.B.B.

B Computations V.I.F.

C Comparing Plat V.I.F. Notes E.B.B.

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INDEX DIAGRAM.

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166	165	147	133	117	103						
7 164	8 145	9 131	10 116	11 102	12	92					
163	162	144	129	114	100						
18 160	17 143	16 128	15 113	14 99	13	91					
159	158	142	127	112	98						
19 157	20 140	21 125	22 110	23 97	24	90					
156	155	139	124	109	96						
30 153	29 138	28 122	27 108	26 95	25	89					
152	151	137	121	107	94						
31 150	32 135	33 119	34 106	35 93	36	88					
78	80	81	82	84	86						

6—4517

Date diagram of T.43 S.,R.2 W.

9-8-17	9-11-17 9-8-17	9-11-17 9-8-17	9-11-17 9-8-17	9-10-17 9-8-17	9-10-17 9-8-17
6-6-17	7-14-17	7-13-17	7-13-17	7-12-17	7-12-17
6 9-6-17 9-6-17	5 9-6-17 9-11-17	4 9-11-17 9-11-17	3 9-10-17 9-10-17	2 9-10-17 9-10-17	1 9-3-17 7-11-17 8-28-17
7 9-5-17 9-6-17	9-11-17 8 9-5-17 9-7-17	9 9-7-17 9-11-17 9-4-17	10 9-4-17 9-4-17	11 9-4-17 9-3-17	12 9-3-17 7-10-17 8-28-17
18 9-1-17 9-5-17	17 9-1-17 9-7-17	16 8-31-17 8-31-17	15 8-31-17 8-30-17	14 8-30-17 8-29-17	13 8-29-17 7-10-17 8-28-17
19 8-9-17 9-1-17	20 8-9-17 8-6-17	21 8-7-17 8-7-17	22 8-8-17 8-30-17	23 8-8-17 8-29-17	24 7-18-17 7-10-17 8-28-17
30 8-4-17 8-9-17	29 8-4-17 8-6-17	28 7-21-17 7-21-17 8-7-17	27 7-20-17 8-8-17	26 7-19-17 7-18-17	25 7-18-17 7-9-17 7-17-17
31 6-11-17 8-4-17	32 6-11-17 7-21-17	33 7-5-17 7-20-17	34 7-5-17 7-19-17	35 7-7-17 7-18-17	36 7-7-17 7-9-17 7-17-17
7-16-17	716-17	7-16-17	7-16-17	7-17-17	7-17-17

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 June 6,1917 and executed with Buff and Buff light mountain transit No. 8964 and Young and Sons light mountain transit No. 8589. For complete description, test and approval of transit No. 8964, see survey of T.44 S.,R.2 W. Young and Sons transit No. 8589 is equipt with Smith's solar attachment; the horizontal

chains

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, in supplemental assignment instructions dated July 25,1917.

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

Note: The instrument is tested on the Polaris meridian established by Howard W. Miller, U. S. Surveyor at camp, situated near the ¼ sec. cor. bet. secs. 4 and 33 on the S. bdy. of the tp., July 4,1917. Approximate latitude 37°01½'N., longitude 112°04'W. For complete record of this Polaris observation, see survey of T.44 S.,R.2 W.

August 4: At 7h. 30m.a.m. apparent time, I set off 37°01½' on the lat. arc; 17°19'N. on the decl. arc; and determine a meridian with the solar and find that the rock used as a reference point in the Polaris observation bears North.

With the instrument in the meridian, I set off 17°15½'N. on the decl. arc, and at apparent noon obs. the sun on the meridian, the resulting lat. is 37°01½'.

At 4h. p.m. apparent time, I set off 37°01½' on the lat. arc; 17°13'N., on the decl. arc, and determine a meridian with the solar and find that the rock bears N.0°01'W.

The instrument by a.m. and p.m. observations defines positions for meridians that do not vary more than 1' from the true meridian, I therefore conclude that it is in good adjustment.

chains

The instruments were kept in good adjustment during the progress of the survey, frequent tests being made on a meridian established by observations on Polaris.

Steel tapes, 5 and 8 chs. long were used in all measurements, together with a clinometer for determining slope angles, and the reduced horizontal distances only appear in the field notes. The tapes were tested, comparison being made with a standard tape, 1 ch. long, kept and used for that purpose.

I begin at the cor. of Tps. 42 and 43 S.,Rs. 2 and 3 W. reestablished by me and described in the field notes of the survey of the E. bdy. of T.43 S.,R.3 W.; approximate latitude 37°06½'N., longitude 112°07'W.

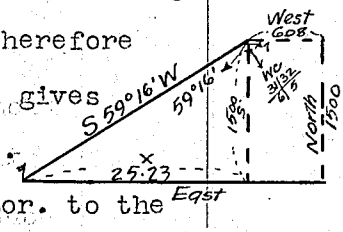
Thence

East, retracing along the N. bdy. of T.43 S.,R.2 W.

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

54.15 Brink of mountain and top of west side of Buckskin Gulch about 1000 ft. deep and rimmed with series of limestone ledges 10 to 50 ft. high, bears NW. and SE. for about 6 chs., thence E. I triangulate across canyon as follows:

Set a flag on line on east side of canyon, and erect a flag at this point. From flag on east side of canyon measure a base line north 15.00 chs., thence west 6.08 chs. to a point 7 lks. N. of the witness cor. to the cor. of secs. 5,6,31 and 32. From this point the flag on west side of canyon bears S.59°16'W., therefore tan. 59°16' x base or 1.68196 x 15.00 chs. gives 25.23 chs. which added to 54.15 chs. makes.



79.38 To a point 14.93 chs. south of the witness cor. to the cor. of secs. 5,6,31 and 32, (Witness cor. is 15.00 chs. N. of true cor. point) which is a limestone 16 x 14 x 4 ins. set in a mound of stone, marked and witness-

chains	
	ed as described by the surveyor general.
	The bearing of this mile is therefore N.89°57'W. and the proportionate distance for each ½ mile is 39.69 chs.
	From the witness cor. to the cor. of secs. 5,6,31 and 32, East, retracing bet. secs. 5 and 32 on offset line
	East, 6.08 chs., then,
	South, 15.00 chs. to true retracement line,
	Thence continue east.
40.00	No trace of the ¼ sec. cor. can be found; I therefore continue my line east making careful searches at intervals of 40.00 chs. for ¼ sec. and sec. cors. and at
400.00	Find no evidence of the cor. of Tps. 42 and 43 S.,Rs. 1 and 2 W. Set temp. point which I designate as "A".

	From temp. point "A" for cor. of Tps. 42 and 43 S.,Rs. 1 and 2 W.
	East, retracing bet. secs. 6 and 31, Tps. 42 and 43 S., R.1 W.
37.23	Fall 2 lks. N. of a point which is S.10°W., 60 lks. distant from a cedar bearing tree recorded in the old notes. No trace of the old cor. stone can be found and same has evidently disintegrated. I take this point to be the position for the ¼ sec. cor.
	I return to the temp. point "A" for cor. of Tps. 42 and 43 S.,Rs. 1 and 2 W. and set a point 2.77 chs. west and 2 lks. S. which I designate as "B", this point being 40.00 chs. west of ¼ sec. cor. bet. secs. 6 and 31.

	From temp. point "A" for cor. of Tps. 42 and 43 S.,Rs. 1 and 2 W.
	North, retracing line bet. secs. 31 and 36, T.42 S., Rs. 1 and 2 W.
40.00	No trace of the old ¼ sec. cor. can be found.
81.86	Fall 1.59 chs. west of the witness cor. to the cor. of

chains

secs. 25, 30, 31 and 36 (witness cor. is 5.00 chs. east of the true cor. point) which is a X on a sandstone ledge, marked and witnessed as described by the surveyor general.

I return to point "A" for cor. of Tps. 42 and 43 S., Rs. 1 and 2 W. and set point "C", 3.41 chs. west and 1.86 chs. N., this point being 80.00 chs. south of the true cor. point for secs. 25,30,31 and 36.

From temp. point "A" for cor. of Tps. 42 and 43 S.,Rs. 1 and 2 W.,

South, retracing bet. secs. 1 and 6.

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

80.00 No trace of the cor. of secs. 1,6,7 and 12 can be found.

I return to temp. point "A" for cor. of Tps. 42 and 43 S., Rs. 1 and 2 W. and restore cor as follows:

From point "A","B" bears 2.77 chs. west and 2 lks. south.

From point "A","C" bears 3.41 chs.west and 1.86 chs.N.

From point "B","C" bears 64 lks. west and 1.88 chs. N.

I now restore the cor. of Tps. 42 and 43 S.,Rs. 1 and 2 W., 2.80 chs. west and 57 lks. north of temp. point "A" as follows:

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of Tps. 42 and 43 S.,Rs. 1 and 2 W. with brass cap marked

T42S
R2W | R1W
S36 | S31

S1 | S6

T43S
1917

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

Cor. stands on steep N. slope about 60 lks. S. of a gully draining N.70°E.

The bearing of the N. bdy. of the tp. from this tp. cor.

chains	
	to the true cor. point for cor. of secs. 5,6,31 and 32 is S.89°55'W. and the proportionate distance for each mile is 79.44 chs. Inasmuch as this bdy. is out of limits in measurement and that closing cors. will be necessary upon it for the subdivisions of T.43 S.,R. 2 W., I resurvey same setting corners for T.42 S., R.2 W. only and establish extra ¼ cors. for T.43 S., R. 2 W. midway between the closing corners.
	Thence from cor. of Tps. 42 and 43 S.,Rs. 1 and 2 W. S.89°55'W., on true line along S.bdy. of sec.36, T.42 S., R.2 W.
	Over rough mountainous land over east break of Cockscomb through scattering cedar and pinon timber and undergrowth of sagebrush and greasewood. Descend along steep N. slope.
2.00	Gully, 15 ft. below tp. cor., course N.70°E.; ascend general E. slope through deep sand.
21.25	Spur, 210 ft. above gully projects NE.; descend NW.slope.
30.00	Head of draw, 35 ft. below spur, course NE.; abrupt ascent over E. slope at S. end of white sandstone bedrock.
39.20	Rocky spur, 235 ft. above draw, projects N.; descend over broken ledges.
39.72	Proportionate measurement.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ½ sec. cor. S. bdy. of sec. 36, T.42 S.,R.2 W., with brass cap marked
	¼S36 / 1917
	from which
	A pinon, 12 ins.diam.,bears N.42½°E., 82 lks. dist.,marked ¼ S 36 B T
	No other suitable trees available.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

Resurvey of N. Bdy. of T. 43 S., R. 2 W.

Chains.	
40.02	Point for ¼ sec. cor. N. bdy. of sec. 1 T. 43 S., R. 2 W. will fall on E. edge of a small gulch on sloping sandstone bedrock; therefore at this point
	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 witness cor. to the ¼ sec. cor. N. bdy. sec. 1 T. 43 S. R. 2 W., with brass cap marked
	WC ¼ S 1 1917
	from which
	A pinon, 9 ins. diam., bears S. 3° E. 134 lks. dist. marked W C ¼ S 1 B T
	A pinon, 8 ins. diam., bears S. 30° W., 16 lks. dist. marked W C ¼ S 1 B T
40.59	True point for ¼ sec. cor. N. bdy. sec. 1. No cor. set.
43.00	Gulch, 35 ft. deep, course N.; abrupt ascent.
48.50	Top of high ridge, called "Cockscomb", 60 ft. above gulch bears N. and S.; abrupt descent over ledges.
56.50	Canyon, 85 ft. below ridge, course N. 20° W.; abrupt ascent.
61.30	Rocky spur, 100 ft. above canyon, projects N.; abrupt descent over ledges.
73.00	Canyon, 250 ft. below spur, course N.; abrupt ascent.
76.75	Spur, 160 ft. above canyon, projects N. and bears SE. Abrupt descent W. slope 75 ft. to
79.44	Proportionate measurement,
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a large mound of stone on solid rock for cor. of secs. 35 and 36 T. 42 S., R. 2 W., with brass cap marked
	T 42 S | R 2 W S 35 | S 36 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor.
	No suitable trees available.
	Land, rough, broken mountains; general E. and W. exposure

Resurvey of N. Bdy. of T. 43 S., R.2 W.

Chains.	
	and drainage from "Cockscomb".
	Soil, deep, loose, red sand and sandstone bedrock.
	Timber, scattering cedar and pinon pine.
	Undergrowth, sagebrush and greasewood.
	Fair grazing.
	S.89° 55' W. on true line along S. bdy. of sec. 35 T.42 S. R.2 W.
	Over rough, mountainous land, draining N., through scattering cedar and pinon timber and sagebrush undergrowth. Descend.
1.15	Intersect the closing cor. of secs. 1 and 2 T.43 S., R.2 W.
2.85	Head of draw, 40 ft. below sec. cor., course N.20° W., a low saddle in spur, bears about 3.00 chs. S. Ascend.
5.30	Rocky spur, 30 ft. above draw, projects N., and bears SE.; abrupt descent.
9.80	Road, Pahreah to Lee's Ferry, bears N. and S.
11.90	Bottom of narrow valley and wash, 30 lks. wide, 5 ft. deep, 175 ft. below spur, course N.20° E.; also foot of east slope of Buckskin mountain. Ascend.
30.00	Spur, 350 ft. above wash, projects NE. Descend.
36.50	Rocky gulch, lined with limestone ledges, 55 ft. below spur; course at bend from the S. to NE. Ascend abruptly over rocky eastern slope.
39.72	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. S. bdy. sec. 35, T.42 S., R.2 W., with brass cap marked
	¼ S 35 / 1917
	from which

chains

A cedar, 5 ins.diam.,bears N.88°W., 121 lks. dist.,marked ¼ S 35 B T

No other suitable trees available.

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

Cor. stands on E. slope, 70 ft. above gulch; continue ascent.

41.17½ Position midway bet. the closing cor. of secs. 1 and 2 and the closing cor. of secs. 2 and 3, T.43 S.,R.2 W.

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. N. bdy. of sec. 2, T.43 S.,R.2 W., with brass cap marked

¼S2
1917

from which

A cedar, 8 ins.diam.,bears S.29°W., 83 lks. dist.,marked ¼ S 2 B T

No other suitable trees available.

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

77.50 Point, 600 ft. above gulch, projects SE.; gradually descend SW. slope 20 ft. to

79.44 Proportionate measurement.

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 34 and 35, S. bdy. of T.42 S.,R.2 W., with brass cap marked

T42S	R2W
S34	S35

1917

from which

A cedar, 10 ins.diam.,bears N.33°W., 27 lks. dist., marked T 42 S R 2 W S 34 B T

No other suitable trees available.

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

Land, mountainous; general E. and W. exposure and drainage to small valley at 11.90 chs. which drains N.

Resurvey of N. bdy. of T.43 S.,R.2W.

chains	
	Soil, shallow brown loam and rocky of limestone and sandstone formation; on rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush.

	S.89°55'W., on true line along S. bdy. of sec. 34, T. 42 S.,R.2 W.
	Over mountainous land through cedar and pinon timber and undergrowth of sagebrush. Descend rocky SW. slope.
1.76	Intersect the closing cor. of secs.2 and 3,T.43 S.,R.2 W.
6.50	Gulch, 30 ft. below cor., course SE.; ascend E. slope.
17.85	Ridge spur, 90 ft. above draw, bears NW. and SE.; gradually descend.
21.75	Shallow draw, course S.; gradually ascend.
39.72	Proportionate measurement; on S. slope.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. S. bdy. of sec. 34, T.42 S.,R.2 W., with brass cap marked
	¼S34 / 1917
	from which
	A cedar, 8 ins.diam.,bears N.23°W., 102 lks. dist.,marked ¼ S 34 B T
	No other trees available.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
41.56½	On gentle SE. slope. Position midway bet. the closing cor. of secs. 2 and 3 and 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. of sec. 3, T.43 S., R.2 W., with brass cap marked
	¼S3 / 1917
	from which
	A pinon, 16 ins.diam.,bears S.4°W., 111 lks. dist.,marked ¼ S 3 B T

chains

A cedar, 6 ins.diam.,bears S.23°W., 37 lks. dist.,marked ¼ S 3 B T

46.00 Top of ascent, bears N. and S.; thence over rolling top of mountain through dense timber.

79.44 Proportionate measurement.

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 cor. of secs. 33 and 34, S. bdy. of T.42 S., R.2 W., with brass cap marked

T42S	R2W
S33	S34

1917

from which

A cedar, 8 ins.diam.,bears N.79°E., 40 lks. dist.,marked T 42 S R 2 W S 34 B T

A cedar, 6 ins.diam.,bears N.46°W., 64 lks. dist.,marked T 42 S R 2 W S 33 B T

Land, mountainous and rolling,; general E. exposure and drainage.

Soil, shallow brown loam and rocky of limestone formation on rocky sub-soil.

Timber, cedar and pinon.

Undergrowth, sagebrush.

S.89°55'W., on true line along S. bdy. of sec. 33, T.42 S.,R.2 W.

Over rolling mountain top through dense cedar and pinon timber and undergrowth of sagebrush and juniper.

1.93 Intersect the closing cor. of secs. 3 and 4, T.43 S.,R.2 W.

39.72 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. S. bdy. of sec. 33, T.42 S.,R.2 W., with brass cap marked

¼S33

1917

from which

chains

A cedar, 6 ins.diam.,bears N.17½°E., 127 lks. dist.,marked ¼ S 33 B T

A cedar, 8 ins.diam.,bears N.60½°W., 32 lks. dist.,marked ¼ S 33 B T

41.83 Position midway bet. the closing cor. of secs. 3 and 4 and the closing cor. of secs. 4 and 5.

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. N. bdy. of sec. 4, T.43 S.,R.2 W., with brass cap marked

¼S4
1917

from which

A cedar, 8 ins.diam.,bears S.8°E., 50 lks. dist.,marked ¼ S 4 B T

No other trees available.

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

79.44 Proportionate measurement.

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a mound of stone on solid rock for cor. of secs. 32 and 33, S. bdy. of T.42 S.,R.2 W., with brass cap marked

T42S	R2W
S32	S33

1917

from which

A cedar, 10 ins.diam.,bears N.24½°E., 113 lks. dist.,marked T 42 S R 2 W S 33 B T

A cedar, 16 ins.diam., bears N.84°W., 9 lks. dist., marked T 42 S R 2 W S 32 B T

Land, rolling mountain top.

Soil, shallow brown, sandy loam and rocky of limestone formation:on rocky sub-soil.

Timber, cedar and pinon.

Undergrowth, sagebrush and juniper.

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chains	
	S.89°55'W., on true line along S. bdy. of sec. 32, T.42 S., R.2 W.
	Over rolling mountain top through cedar and pinon timber and undergrowth of sagebrush and juniper. Gradual descent over gentle west slope.
2.39	Intersect the closing cor. of secs. 4 and 5, T.43 S., R.2 W.
39.72	Proportionate measurement.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., S. bdy. of sec. 32, T.42 S., R.2 W., with brass cap marked
	¼S32 / 1917
	from which
	A cedar, 10 ins. diam., bears N.20½°E., 52 lks. dist., marked ¼ S 32 B T
	A cedar, 14 ins. diam., bears N.47°E., 80 lks. dist., marked ¼ S 32 B T
42.18 / 42.18½	Position midway bet. the closing cor. of secs. 4 and 5 and point for closing cor. of secs. 5 and 6, T.43 S., R.2 W.
	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. N. bdy. of sec. 5, T.43 S., R.2 W., with brass cap marked
	¼S5 / 1917
	from which
	A cedar, 6 ins. diam., bears S.58°E., 160 lks. dist., marked ¼ S 5 B T
	A cedar, 8 ins. diam., bears S.40°W., 176 lks. dist., marked ¼ S 5 B T
73.36	Top of high ledges and brink of Buckskin Gulch, bears N.20°W. and SE. Impossible to continue line west,
	Offset North, 15.00 chs., then, on offset line to S.89°55'W., 6.08 chs. to

Resurvey of N. bdy. of T.43 S.,R.2 W.

chains	
79.44	The witness cor. to the cor. of secs. 5,6,31 and 32. This cor. now refers to secs. 31 and 32, T.42 S.,R.2 W. only.
	Land, rolling mountain top.
	Soil, shallow brown, sandy loam and rocky; on rocky sub-soil. Limestone formation.
	Timber, cedar and pinon.
	Undergrowth, sagebrush and juniper.

	N.89° 57'W. on true line along S. bdy. of sec. 31, T.42 S.,R.2 W. from witness cor. to cor. of secs. 31 and 32, 15.00 chs. N. of true cor. point. Impossible to reach true cor. point on tp. bdy. Thence by offset and triangulation to west side of canyon.
	N.89°55'E., 6.08 chs., then
	South, 15.00 chs. to true tp. bdy.; thence by triangulation, S.89°55'W. 6.08 chs. to true point on bdy. for cor. of secs. 31 and 32, T.42 S.,R.2 W. Cor. cannot be set. Continue by triangulation, N.89°57'W.
2.54	Point of intersection of line bet. secs. 5 and 6 with tp. bdy. and position for closing cor. of secs. 5 and 6.
25.23	Point of triangulation on west brink of Buckskin Gulch.
	Thence over broken mountain top through scattering cedar and pinon timber and undergrowth of sagebrush and juniper.
39.69	Proportionate measurement.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. S. bdy. of sec. 31, T. 42 S.,R.2 W., with brass cap marked
	¼S31
	1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
42.54	Position 40.00 chs. westing from point for closing cor. of secs. 5 and 6, T.43 S.,R.2 W.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in

chains	
	the ground for ¼ sec. cor., N. bdy. of sec. 6, T.43 S., R.2 W., with brass cap marked
	¼S6 1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor. No suitable trees available.
52.70	Gulch, 70 ft. below ¼ sec. cor., sec. 31, course N.; ascend abruptly.
55.60	Spur, 70 ft. above gulch, projects N.; descend.
61.40	Draw, 60 ft. below spur, course N.; ascend.
72.00	Low, flat ridge, 60 ft. above draw, bears N. and S.; gradually descend.
79.38	The cor. of Tps. 42 and 43 S., Rs. 2 and 3 W.
	Land, eastern portion, rough, broken slopes of canyon; remainder of mile, rolling and broken mountain top. General exposure N.; drainage SE.
	Soil, shallow brown sandy loam and rocky of limestone formation, on gravelly sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush and juniper. Fair grazing on western portion of mile.

Resurvey of E. bdy. of T. 43 S.,R.2 W.

From the cor. of Tps. 42 and 43 S., Rs. 1 and 2 W., South, on true line bet. secs. 1 and 6.

Over broken mountainous land through scattering scrub cedar and pinon timber and sagebrush undergrowth.; asc.

1.60	Spur, 35 ft. above cor., projects E.; descend broken E. slope.
17.80	Draw, 90 ft. below spur, course E.; ascend,
22.50	Ridge, 95 ft. above draw, bears E. and W.; descend.
33.30	Draw, 50 ft. below ridge, course NE.; ascend 40 ft. to
39.49	Point for ¼ sec. cor. Will fall on unsafe ground, 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

Resurvey of E. bdy. of T.43 S., R.2 W.

chains

brass cap marked

S1 | S6

WC
1917

from which

A cedar, 8 ins.diam., bears N.22°E., 60 lks.
dist., marked W C ½ S 6 B T

No other trees available.

Impracticable to build other accessories to cor.

40.00 Proportionate point for ¼ sec. cor. falls on unsafe ground.
No cor. set at this point.

42.80 Spur, 65 ft. above ¼ sec. cor., projects E., descend.

52.50 Ravine, 90 ft. below spur, course E.; ascend.

67.40 Ridge, 150 ft. above ravine, bears E. and W.; descend.

79.63 Point for cor. of secs. 1,6,7 and 12 will fall in wash
where same would be washed away, therefore at this
point perpetuate cor. on safe ground as follows:
Set an iron post, 3 ft. long, 2 ins. in dia., 6 ins. in
the ground and 18 ins. in a mound of stone for witness
cor. to the cor. of secs. 1,6,7 and 12, with brass
cap marked

T43S
R2W | R1W
S1 | S6
S12 | S7
WC
1917

from which

A cedar, 5 ins.diam., bears N.45°E., 15 lks.
dist., marked W C T 43 S R 1 W S 6 B T

A cedar, 6 ins.diam., bears N.71°W., 69 lks.
dist., marked W C T 43 S R 2 W S 1 B T

No other trees are available and it is
impracticable to dig pits or raise a mound of stone.

Note: Underlying rock prevents setting post required depth.

80.00 Proportionate measurement. Point for the cor. of secs.
1,6, 7 and 12 falls in wash. No cor. set. Wash drains E.

chains

Land, broken mountains, general E. exposure and drainage.

Soil, red sand and rocky, sandstone formation; on sandy and rocky sub-soil.

Timber, cedar and pinon.

Undergrowth, sagebrush.

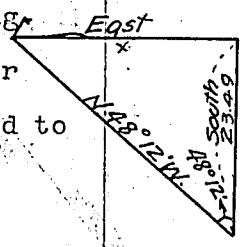
South boundary of T.43 S.,R.2 W.

From the cor. of Tps. 43 and 44 S., Rs. 2 and 3 W., established by me and described in the field notes of the survey of T.43 S.,R.3 W.

East, on temp. line along S. bdy. of T.43 S., setting temp. cors. at intervals of 40.00 chs.

277.42 Buckskin Gulch, a narrow gorge cut in solid sandstone is immediately east of this point and being unable to chain across same, triangulate as follows:

Set a flag on line on east side of gulch and also erect one at this point, then, from east flag, measure a base south, 23.49 chs. to a point where west flag bears N.48°12'W., therefore tan. 48°12' x base or 1.11844 x 23.49 chs. makes 26.27 chs. which added to 277.42 chs. gives



303.69 To point of triangulation.

320.00 The line east passes over series of high sandstone ledges and south breaks of west Clark bench and cannot be chained; I offset as follows:

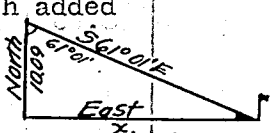
South, 25.19 chs., then, on offset

East, 80.00 chs. or 400.00 chs. from tp. cor., then

North, 25.19 chs. to true line.

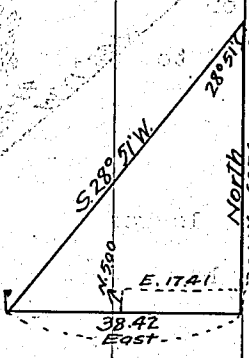
441.58 The line east follows along Buckskin gulch, course from the SW. to E. and cannot be chained, I triangulate as follows:

Set a flag on line to the east and from this point measure a base line north, 10.09 chs. to a point whence flag bears S.61°01'E., therefore tan. 61°01' x base or 1.80529 x 10.09 chs. makes 18.22 chs. which added to 441.58 chs. gives



South Boundary of T.43 S.,R.2 W.

chains	
459.80	To point of triangulation.
462.59	N. brink of Buckskin gulch course from the SW. to E. Line follows in gulch for some distance and cannot be chained, nor am I able to triangulate without causing much delay, I therefore offset as follows:
	North, 5.00 chs., then, on offset
	East, 17.41 chs. to
480.00	A point 5 chs. north of true point for temp. cor. of Tps. 43 and 44 S.,Rs. 1 and 2 W. True point for temp. tp. cor. falls in gulch and cannot be reached. I set temp. witness cor. at this point.
	From temp. witness cor. to cor. of Tps. 43 and 44 S., Rs. 1 and 2 W. which is 5.00 chs. N. of it's true cor. point,
	North, on temp. line along E. bdy. of T.43 S., setting temp. cors. at intervals of 40.00 chs. (distances counted from true cor. point)
40.00	The line north passes over high ledges and south breaks of the west Clark bench. I triangulate to top of ledges as follows:
	Set a point on line on top of ledges and from it a point 38.42 chs. west of the true cor. point for. temp. cor. of Tps. bears S.28°51'W., therefore cotan. 28°51' x base or 1.81524 x 38.42 chs. makes 69.74 chs. to top of ledges.
69.74	Point of triangulation on top of ledges.
399.87	Fall 3.07 chs. east of the true point for cor. of secs. 1, 6, 7 and 12.
	Thence from cor. of Tps. 43 and 44 S.,Rs. 2 and 3 W.
	East, on true line bet. secs. 6 and 31.
	Over mountainous land through cedar and pinon timber and undergrowth of sagebrush, juniper and scattering oak.
.75	Spur, 5 ft. above cor., projects S.; thence along broken S. slope.
8.95	Base of descent on S. slope; a gulch draining E. bears south about 60 lks.



chains	
23.75	N. brink of gulch, bears NW. and SE.; thence over broken mountain top gradually descending.
36.93	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 S31 ¼ S6 1917 from which A cedar, 30 ins.diam.,bears North, 17 lks. dist.,marked ¼ S 31 B T A cedar, 10 ins.diam.,bears S.15¾°E., 38 lks. dist.,marked ¼ S 6 B T
61.90	Draw, 35 ft. deep, heads about 5 chs. SW. and drains NE.; another draw from the west, bears N. about 4 chs. and drains E.; ascend.
67.50	Low spur, 30 ft. above draw, projects N.60°E.; descend E. slope, 50 ft. to
76.93	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. 5,6,31 and 32, with brass cap marked T43S | R2W S31 | S32 S6 | S5 T44S 1917 from which A cedar, 10 ins.diam.,bears N.54°E., 48 lks. dist.,marked T 43 S R 2 W S 32 B T A cedar, 8 ins.diam.,bears S.14¼°E., 84 lks. dist.,marked T 44 S R 2 W S 5 B T A pinon, 10 ins.diam.,bears S.35°W., 78 lks. dist.,marked T 44 S R 2 W S 6 B T A cedar, 19 ins.diam.,bears N.33½°W., 73 lks. dist.,marked T 43 S R 2 W S 31 B T Land, rolling and broken mountain top; general E. exposure and drainage. Soil, rocky of limestone formation, on rocky sub-soil.

South boundary of T.43 S., R.2 W.

chains	
	Timber, cedar and pinon.
	Undergrowth, sagebrush, juniper and scattering oak brush.
	East, bet. secs. 5 and 32.
	Over mountainous land through cedar and pinon timber and undergrowth of sagebrush and juniper. Descend.
2.90	Draw, 35 ft. below cor., heads about 6 chs. S.60°W. and drains NE.; ascend.
13.60	Spur, 15 ft. above draw, projects NE.; descend abruptly over E. break of Buckskin mountain.
21.25	Bottom of ledgy gulch, 200 ft. below spur, course S.70°E.; ascend along broken S. slope.
33.50	Rocky point, 70 ft. above gulch, projects S.; abrupt descent.
40.00	In shallow swale draining SE., 125 ft. below point. Set an iron post, 3 ft. long, 1 in. in dia., 10 ins. in the ground on solid rock and 16 ins. in a mound of stone for ¼ sec. cor. with brass cap marked
	¼ S32 / S5 1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Abrupt ascent.
42.60	Point, 15 ft. above ¼ sec. cor., projects S.; abrupt descent over E. slope.
68.40	Gulch, 500 ft. below point, course S.70°E.; gradually descend over rolling slope 125 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 22 ins. in the ground on solid rock and 6 ins. in a mound of stone for cor. of secs. 4,5,32 and 33, with brass cap marked
	T43S R2W / S32 S33 / S5 S4 / T44S 1917.
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

chains	
	Land, rough E. break of Buckskin mountain; E. exposure and drainage.
	Soil, rocky, of limestone formation on rocky sub-soil.
	Timber, very scattering scrub cedar and pinon.
	Undergrowth, sagebrush and juniper.
	East, bet. secs. 4 and 33.
	Over mountainous land through scattering cedar and pinon timber and undergrowth of sagebrush. Gradually descend.
7.90	Low ridge, bears N. and S.; abrupt descent over E. slope.
16.70	Base of abrupt descent, bears N. and S.; descend more gradually.
23.75	Bottom of wash in draw, 160 ft. below ridge, course SE. for about 5 chs. thence E.; gradually ascend along S. slope of small bench, 20 ft. to
35.25	Low point, falls SE.; descend.
39.80	Road, Pahreah to Lee's Ferry, in draw, bears N. and S.
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 S33 / S4 1917 from which
	A cedar, 8 ins.diam.,bears S.35°W., 117 lks. dist.,marked ¼ S 4 B T
	A cedar, 7 ins.diam.,bears N.51°W., 201 lks. dist.,marked ¼ S 33 B T
41.00	Wash, 10 lks. wide, 3 ft. deep, in draw, 40 ft. below point, course S.10°E. about 6 chs. to junction with Coyoto wash, thence E. Ascend abruptly over red sandstone ledges and reef.
43.85	Top of ledges and reef, 90 ft. above draw, bears N. and S. about 6 chs. Descend abruptly over red sandstone ledges.
50.75	Gulch, 85 ft. below top of reef, course S. about 2 chs. to junction with Coyoto wash.; ascend abruptly over ledges and through deep sand.

chains	
62.50	Ridge, 100 ft. above gulch, bears N. and S. about 12 chs. to Coyoto wash.; descend abruptly over ledges.
72.00	Bottom of Coyoto wash, in draw, 60 lks. wide, 5 ft. deep, 100 ft. below ridge, course NE.; ascend abruptly over ledges.
75.90	Point of spur, 60 ft. above wash, projects N.; descend.
80.00	On E. slope 45 ft. below 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. 3,4,33 and 34 with brass cap marked

T43S S33	R2W S34
S4	S3

T44S
1917

from which

A cedar, 10 ins.diam.,bears N.49½°E., 427 lks. dist.,marked T 43 S R 2 W S 34 B T

A cedar, 12 ins.diam.,bears S.74½°E., 324 lks. dist.,marked T 44 S R 2 W S 3 B T

A cedar, 8 ins.diam.,bears S.25¾°W., 45 lks. dist.,marked T 44 S R 2 W S 4 B T

No other trees available.

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

Land, mountainous; general E. exposure and drainage.

Soil, loose, red sand and rocky; limestone formation on W.½ mile, sandstone formation on E.½ mile.

Timber, cedar and pinon, very scrubby and scattering.

Undergrowth, sagebrush, chaparral and greasewood. Fair grazing.

East, bet. secs. 3 and 34.

Over rough and broken mountainous land through very scattering scrub cedar and pinon timber and undergrowth of sagebrush and greasewood. Descend.

chains	
3.75	Coyoto wash, in draw, 50 lks. wide, 10 ft. deep, 45 ft. below sec. cor., course S; ascend abruptly over red sandstone ledges.
7.30	Spur, 60 ft. above wash, projects SW.; thence along S. slope.
13.25	Spur, projects SE.; descend over broken ground.
27.20	Base of descent at N. edge of Coyoto wash, wash at this point comes from the SW. and drains SE. To the SE. it forms a narrow gorge cut in solid sandstone and ranges from 20 to 50 ft. in width and 100 to 300 ft. in depth. Ascend over sandstone bedrock.
40.00	Point for ¼ sec. cor. on solid sandstone bedrock, mark x for cor. point and over cross, Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in a mound of stone, 5 ft. base, 26 ins. high, with brass cap marked ¼ S34 / S3 / 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
40.49	Top of sandstone ridge, bears NW. and SE., 165 ft. above base of descent. From this point the junction of Buckskin and Coyoto gulches bears S.49°30'E. about 18 chs. Buckskin gulch a narrow gorge, 1 ch. wide and about 250 ft. deep, cut in solid sandstone is about 10 chs. east and has a southerly course for about 1 mile thence northeasterly to its junction with the Paria river. This gulch cannot be crossed afoot any place to the south of this point and the first crossing place to the north is about ¾ mile distant. On the outer slopes of the gulch the country is cut by sandstone pinnacles and ledges. Thence by triangulation to
66.76	Point of triangulation on east side of gulch. Ascend towards ledges at south end of west Clark bench.

chains

71.15 Sandy spur, 150 ft. above brink of Buckskin gulch, projects NW.; abrupt descent 50 ft. to

79.70 Sand wash and draw, at base of sandstone bedrock slope from west Clark bench, course NW.; ascend 10 ft. to

80.00 On sloping sandstone bedrock. Mark X for exact cor. point for cor. of secs. 2,3,34 and 35 and over X, Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a mound of stone for cor. of secs. 2,3,34 and 35, with brass cap marked

T43S S34	R2W S35
S3	S2

T44S
1917

from which

A cedar, 16 ins.diam., bears S.26½°E., 61 lks. dist., marked T 44 S R 2 W S 2 B T

A cedar, 10 ins.diam., bears S.74°W., 181 lks. dist., marked T 44 S R 2 W S 3 B T

A cedar, 10 ins.diam., bears N.77°W., 181 lks. dist., marked T 43 S R 2 W S 34 B T

Sandstone ledge, marked B X O, bears N.45°E., 7 lks. distant.

Land, rough mountainous, general S. exposure and east drainage.

Soil, loose red sand and rocky of sandstone formation; on sandy and rocky sub-soil. Solid bedrock on great portion of mile.

Timber, scattering scrub cedar and pinon.

Undergrowth, sagebrush and greasewood.

East, on true line bet. secs. 2 and 35.

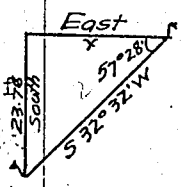
Over rough mountainous land through very scattering scrub cedar and pinon timber and sagebrush undergrowth. Ascend abruptly to base of ledges at south end of west Clark bench.

3.07 Point for offset. The line east passes over high ledges and breaks of bench and cannot be chained. I find since

chains

running the temp. tp. bdy. that I will be able to establish a witness cor. to the ¼ sec. cor. for secs. 2 and 35 closer to its true point on the true line than it would be if established on the offset line, I therefore proceed to establish same:

From this point measure a base line south 23.76 chs. and also set a point on line on top of ledges and bench to the E. From flag on top of ledges the south point of the base bears S.32°32'W., therefore cotan. 57°28' x base or .63789 x 23.76 chs. = 15.16 chs. which added to 3.07 chs. makes



18.23 To point of triangulation on top of ledges on west brink of west Clark bench, 600 ft. above sec. cor., bears N. and S. Thence over rough, broken mountain top near S. brink of bench across solid bedrock.

37.00 Further measurement of line impossible on account of ledges and breaks, therefore at this point,

Mark X on ledge and over same,

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

S35 WC
¼
S2
1917

Impracticable to build accessories to cor.

Thence from point 3.07 chs. E. of cor. of secs. 2,3,34 and 35, offset as follows:

South, 25.19 chs., then, on offset

East, 76.93 chs., then

North, 25.19 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. 1,2,35 and 36, with brass cap marked

T43S	R2W
S35	S36
S2	S1

T44S
1917

chains	
	from which
	A cedar, 16 ins.diam., bears N.33½°E., 309 lks. dist., marked T 43 S R 2 W S 36 B T
	A cedar limb, 8 ins.diam., bears S.33½°E., 446 lks. dist., marked T 44 S R 2 W S 1 B T
	A cedar, 10 ins.diam., bears S.41½°W., 410 lks. dist., marked T 44 S R 2 W S 2 B T
	A cedar, 7 ins.diam., bears N.53¾°W., 174 lks. dist., marked T 43 S R 2 W S 35 B T
	Note: The top of the east brink of the West Clark Bench bears west about 20.00 chs., the foot of the bench bears west about 10 chs. and bears N. and S. Cor. stands strip deep, loose, rolling sand hills at base of bench.
	Land, rough, broken mountains, chiefly ledges, at S. end of west Clark bench. General S. exposure and drainage.
	Soil, deep, loose, red sand and sandstone bedrock.
	Timber, scattering scrub cedar and pinon.
	Undergrowth, greasewood.

	East, bet. secs. 1 and 36
	Over rolling sand hills at base of West Clark Bench, through deep, loose sand, scattering cedar and pinon timber and greasewood and chaparral undergrowth.
40.00	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 S36/S1 1917
	from which
	A cedar, 17 ins.diam., bears N.2¾°W., 178 lks. dist., marked ¼ S 36 B T
	A cedar, 24 ins.diam., bears S.78½°W., 100 lks. dist., marked ¼ S 1 B T
44.65	Point of triangulation on N. brink of Buckskin gulch.

South boundary of T.43 S., R.2 W.

chains	
	The line east follows along Buckskin gulch and cannot be chained. Triangulate to
62.87	Point of triangulation on top of ledge on N. brink of Bucksin gulch. Thence along broken brink of gulch.
65.66	N. brink of same gulch, course from the SW. to E.
	Line follows along gulch and cannot be chained.
	Offset, north, 5.00 chs., then, on offset
	East, 14.34 chs. to
80.00	Point 5.00 chs. N. of true point for cor. of Tps. 43 and 44 S., Rs. 1 and 2 W. Being unable to measure or triangulate south to true cor. point, I place my instrument south of this point and at a point east of a flag left at 44.65 chs. The point of intersection is the point for the cor. of tps. 43 and 44 S., Rs. 1 and 2 W., said point falls on E. slope of a sandstone ledge (impossible to set cor.) where I mark X for exact cor. point and at a point 20 lks. E. of X I, Set and iron post, 3 ft. long, 3 ins. in dia., 18 ins. in the ground for witness cor. to the cor. of tps. 43 and 44 S., Rs. 1 and 2 W., with brass cap marked

T43S
R2W | R1W
S36 | S31
WC
S1 | S6
T44S
1917

from which

A sandstone ledge, marked X T43 SR1WS31BO, bears N.59°43'E., 31 lks. distant.

A sandstone ledge, marked XT44SR1WS6BO, bears S.75°23'E., 36 lks. distant

A sandstone ledge, marked XT43SR2WS36BO, bears N.35°15'W., 31 lks. distant.

No other suitable bearing objects are available and it is impracticable to build other accessories to cor.

Cor. stands on S. edge of Buckskin gulch.

Land, rolling and broken benches; S. exposure and E. drainage.

Soil, deep, loose, red sand and sandstone bedrock.

chains	
	Timber, a few scattering cedar.
	Undergrowth, greasewood and chaparral.

East boundary of T.43 S.,R.2 W.

From point on offset line bet. secs. 1 and 36, S.bdy of T.43 S.,R.2 W. which point is 5.00 chs. north of the true cor. point of Tps. 43 & 44 S.,Rs. 1 & 2 W.

North, on true line bet. secs. 31 and 36, counting distances and noting topography from true cor. point for tp. cor.

Over broken bench land through deep sand and scattering cedar timber and greasewood undergrowth.

.60 Buckskin Gulch, about 75 lks. wide from brink to brink, cut in solid sandstone and about 400 ft. deep, course E.; gradually ascend through deep sand towards base of breaks of West Clark Bench.

40.00 250 ft. above tp. 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
S36 | S31
1917

from which

A cedar, 9 ins.diam.,bears S.40¾°E., 231 lks. dist.,marked ¼ S 31 B T

A cedar, 5 ins.diam.,bears S.16¾°W., 161 lks. dist.,marked ¼ S 36 B T

The base of the south breaks of the West Clark Bench bear about 10.00 chs. north; thence by triangulation to top of bench.

69.74 Point of triangulation and top of ledges on south brink of West Clark Bench, 600 ft. above ¼ sec. cor., bears E. and W. Ascend.

76.05 Top of ascent, 60 ft. above point of triangulation, bears E. and W. Thence over rolling bench, gradually descending.

East boundary of T.43 S.,R.2 W.

chains	
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

T43S
R2W | R1W
S25 | S30
S36 | S31
1917

from which

A cedar, 12 ins.diam.,bears N.44°E., 413 lks. dist.,marked T 43 S R 1 W S 30 B T

A cedar, 12 ins diam., bears S.21°E., 300 lks. dist.,marked T 43 S R 1 W S 31 B T

A cedar limb, 8 ins.diam.,bears S.24¾°W.,87 lks. dist.,marked T 43 S R 2 W S 36 B T

A cedar limb,10 ins.diam.,bears N.36¾°W.,251 lks. dist.,marked T 43 S R 2 W S 25 B T

Land, rolling and broken ; S. exposure and drainage on S.76.05 chs., N. exposure and drainage on remainder of mile.

Soil, deep, loose, red sand and sanstone rock.

Timber, scattering cedar.

Undergrowth, greasewood.

North, bet. secs. 25 and 30

Over rolling bench land through deep sand, scattering cedar and pinon timber and sagebrush and greasewood undergrowth. Gradually descend over gentle N.slope.

32.00 Shallow draw, 40 ft. below sec. cor., course NE.; gradually 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
S25 | S30
1917

from which

A cedar, 24 ins.diam.,bears N.88°E., 321 lks.

90

East boundary of T.43 S.,R.2 W.

chains	
	marked ¼ S 30 B T
	A cedar, 8 ins.diam.,bears S.47°W., 158 lks. dist.,marked ¼ S 25 B T
59.00	Low ridge, 65 ft. above draw, bears E. and W.; gradually descend 35 ft. to
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

T43S
R2W | R1W
S24 | S19
S25 | S30
1917

from which

A cedar, 7 ins.diam.,bears N.84¾°E., 449 lks. dist.,marked T 43 S R 1 W S 19 B T

A cedar, 8 ins.diam.,bears S.8°W., 72 lks. dist.,marked T 43 S R 2 W S 25 B T

A cedar, 10 ins.diam.,bears N.54¾°W., 334 lks. dist.,marked T 43 S R 2 W S 24 B T

No other trees nor stone is available and as cor. stands in deep, loose sand, I do not dig pits.

Land, rolling bench or mountain top; general NE. exposure and drainage.

Soil, deep, loose red sand. Some surface rock.

Timber, scattering cedar and pinon.

Undergrowth, sagebrush and greasewood.

North, bet. secs. 19 and 24.

Over rolling bench land through deep sand, scattering cedar and pinon timber and sagebrush and 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
S24 | S19
1917

from which

East boundary of T.43 S., R.2 W.

chains	
	A cedar, 8 ins.diam., bears N.38°E., 16 lks. dist., marked ¼ S 19 B T
	A cedar, 8 ins.diam., bears N.45°W., 208 lks. dist., marked ¼ S 24 B T
80.00	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

T43S
R2W | R1W
S13 | S18
S24 | S19
1917

dig pits, 18x18x12 ins., in each sec., 5½ ft. distant.

Land, rolling mountain top, general N. exposure and drainage.

Soil, deep, loose, sand with patches of solid bedrock.

Timber, scattering cedar and pinon.

Undergrowth, sagebrush and greasewood.

North, bet. secs. 13 and 18:

Over rolling bench land through very scattering cedar timber and undergrowth of sagebrush and greasewood.

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
S13 | S18
1917

dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. distant.

43.00 Leave bench, enter rough, broken mountains, bears E.& W. Descend abruptly over N. slope.

47.40 Box gulch, 125 ft. below bench, course E.; abrupt ascent.

56.50 Spur, 125 ft. above gulch, projects E.; thence over broken ground, descend abruptly.

58.35 Draw, 60 ft. below spur, course N.70°E.; ascend.

73.60 Spur, 110 ft. above draw, projects N.70°E.; thence along broken slope.

East boundary of T.43 S.,R.2 W.

chains	
79.70	Spur, projects NE.; descend NW. slope.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 7,12,13 and 18, with brass cap marked

T43S
R2W | R1W
S12 | S7
S13 | S18
1917

dig pits, 18 x 18 x 12 ins., in each sec.,5½ ft. dist.

Land, S. 43.00 chs. rolling; remainder of mile rough, broken mountains, general E. exposure and drainage.

Soil, sand, sandy clay loam mixed with gypsum,and rocky of sandstone formation.

Timber, a few scattering cedar.

Undergrowth, sagebrush and greasewood.

North, bet. secs. 7 and 12.

Over rough mountainous land through scattering cedar timber and undergrowth of sagebrush. Descend abruptly over N. slope.

chains	
9.00	Ravine, 115 ft. below cor., course NE.; abrupt ascent.
14.00	Ridge spur, 95 ft. above ravine, projects NE.; descend.
24.00	Ravine, 150 ft. below ridge, course NE.; ascend.
34.00	Spur, 120 ft. above ravine, projects NE.; descend.
39.00	Main spur, projects NE.; descend.
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
S12 | S7
1917

dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.

chains	
51.50	Canyon, 125 ft. below main spur, course N.70°E.; ascend.
71.20	Ridge, 175 ft. above canyon, bears E. and W.; abrupt descent over N. slope.

chains

79.40 Ravine, 125 ft. below ridge, course E. about 5 chs. thence S.; abrupt ascent.

79.50 Top of small point, projects E.; descend.

79.87 The true cor. point for cor. of secs. 1,6,7 and 12.

Land, rough mountainous, general E. exposure and drainage.

Soil, sandy clay loam mixed with gypsum, on hard, dry clay and rocky sub-soil. Sandstone formation.

Timber, very scattering cedar and pinon.

Undergrowth, sagebrush.

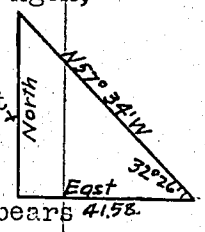
Subdivision of T.43 S.,R.2 W.

From the cor. of secs. 1,2,35 and 36 on the S. bdy. of the tp.,

N.0°01'W., bet. secs. 35 and 36.

The line north passes over high ledges and south breaks of West Clark Bench and cannot be chained, I therefore triangulate as follows:

It is impracticable to set a flag on line north and be able to see the end of a base line of reasonable length, I therefore offset, east 3.07 chs. and set a point north on top of ledges and also measure a base east 41.58 chs. to a point where point on ledge bears N. 57°34'W., from point on ledge east end of base bears S.57°34'E.; tan 32°26' x base or .63544 x 41.58 chs. = 26.42 chs.



26.42 Top of ledges and S. brink of West Clark Bench, 700 ft. above tp. bdy., bears NE. and SW. I now offset west 3.078 chs. to true line,

Thence over rolling mountain top or bench, through deep sand, scattering cedar and pinon timber and sagebrush and 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

S35 | S36
1917

chains

from which

A cedar limb, 8 ins.diam.,bears S.88½°E., 32½ lks. dist.,marked ¼ S 36 B T

A cedar, 16 ins.diam.,bears S.34°W., 165 lks. dist.,marked ½ S 35 B T

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

T43S R2W
S26 | S25
S35 | S36
1917

from which

A cedar, 8 ins.diam.,bears S.6°05'E., 546 lks. dist.,marked T 43 S R 2 W S 36 B T

A cedar, 25 ins.diam.,bears S.21½°W., 457 lks. dist.,marked T 43 S R 2 W S 35 B T

A cedar, 34 ins.diam.,bears N.69°W., 352 lks. dist.,marked T 43 S R 2 W S 26 B T

No other trees available, stone not available for mound and as cor. stands in deep, loose sand I do not dig pits.

Land, S.26.42 chs. rough mountainous, SE. exposure and drainage; remainder of mile rolling mountain top, slopes and drains N.

Soil, deep, loose, fine red sand and sandstone rock.

Timber, scattering cedar and pinon.

Undergrowth, sagebrush, greasewood and sandgrass.

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

40.00 Set temp. ¼ sec. cor.

80.00 Intersect E. bdy. of the tp., 7 lks. N. of the cor. of secs. 25,30.31 and 36.

Thence

N.89°57'W., on true line bet. secs. 25 and 36.

Over rolling mountain top draining N., through deep, loose, red sand, scattering cedar and pinon timber and undergrowth of sagebrush and greasewood. Gradually descend.

chains	
26.60	Shallow draw, 35 ft. below cor., course N.30°E.; gradually ascend.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 10 ins. in the ground on solid rock and 16 ins. in a mound of stone for ¼ sec. cor., with brass cap marked S25 ¼ S36 1917 from which A cedar, 36 ins.diam., bears N.15°E., 70 lks. dist., marked ¼ S 25 B T A cedar, 8 ins.diam., bears S.14¼°E., 97 lks. dist., marked ¼ S 36 B T
61.20	Low, flat ridge, 45 ft. above draw, bears N. and S.; gradually descend 35 ft. to
80.00	The cor. of secs. 25,26,35 and 36.
	Land, rolling mountain top, general N. exposure and drainage.
	Soil, deep, loose, fine, red sand and sandstone bedrock.
	Timber, scattering cedar and pinon.
	Undergrowth, sagebrush and greasewood.

	N.0°01'W., bet. secs. 25 and 26.
	Over rolling mountain top, gradually descending through deep, loose, red sand, scattering scrub cedar and pinon timber and undergrowth of sagebrush and greasewood.
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 S26 | S25 1917 from which A cedar limb, 8 ins.diam., bears S.45¾°E., 413 lks. dist., marked ¼ S 25 B T A cedar, 6 ins.diam., bears S.34¾°W., 131 lks. dist., marked ¼ S 26 B T

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

T43S S23	R2W S24
S26	S25

1917

from which

A cedar, 10 ins.diam.,bears N.19½°E., 196 lks. dist.,marked T 43 S R 2 W S 24 B T

No tree available in sec. 25

A cedar, 12 ins.diam.,bears S.89°W., 288 lks. dist.,marked T 43 S R 2 W S 26 B T

A cedar, 10 ins.diam.,bears N.66°W., 580 lks. dist.,marked T 43 S R 2 W S 23 B T

Stone for mound at cor. is not available and as cor. stands in deep, loose sand, I do not dig pits.

Land, rolling mountain top, general N. exposure and drainage.

Soil, deep, loose, fine, red sand.

Timber, scattering cedar and pinon.

Undergrowth, sagebrush and greasewood.

S.89°57'E., on a random line bet. secs. 24 and 25.

40.00 Set temp. ¼ sec. cor.

80.02 Intersect N. bdy. of the tp. at the cor. of secs. 19,24, 25 and 30.

Thence

N.89°57'W., on true line bet. secs. 24 and 25.

Over rolling mountain top through scattering cedar and pinon timber and undergrowth of sagebrush and weeds. Gradually ascend.

21.50 Low ridge, 75 ft. above sec. cor., bears N. and S.; thence over rolling ground gently ascending and descending.

46.01 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 S 24 / S 25 / 1917
	from which
	A cedar, 8 ins. diam., bears N.½°E., 111 lks. dist., marked ¼ S 24 B T
	A cedar, 10 ins. diam., bears S.18½°W., 266 lks. dist., marked ¼ S 25 B T
80.02	The cor. of secs. 23,24,25 and 26.
	Land, rolling mountain top, general N. exposure and drainage.
	Soil, deep, loose, fine, red sand.
	Timber, scattering cedar and pinon
	Undergrowth, sagebrush and weeds.

	N.0°01'W., bet. secs. 23 and 24.
	Over rolling bench land, gradually descending through deep sand, scattering cedar and pinon timber and undergrowth of sagebrush.
40.00	On gentle west slope, 45 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 / S23 | S24 / 1917
	from which
	A cedar, 12 ins. diam., bears S.35½°E., 50 lks. dist., marked ¼ S 24 B T
	A cedar, 7 ins. diam., bears S.86½°W., 50 lks. dist., marked ¼ S 23 B T
66.50	Swale, 75 ft. below ¼ sec. cor., course NW.
80.00	On gentle NW. slope.
	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

Subdivision of T.43 S.,R.2 W.

chains	
	T43S R2W S14 | S13 S23 | S24 1917
	from which
	A cedar, 10 ins.diam.,bears N.52½°E., 94 lks. dist.,marked T 43 S R 2 W S 13 B T
	A cedar, 16 ins.diam.,bears S.2°E., 240 lks. dist.,marked T 43 S R 2 W S 24 B T
	A cedar, 12 ins.diam.,bears S.21½°W., 191 lks. dist.,marked T 43 S R 2 W S 23 B T
	A cedar, 10 ins.diam.,bears N.30°W., 97 lks. dist.,marked T 43 S R 2 W S 14 B T
	Land, rolling, general N. exposure and NW. drainage.
	Soil, deep, loose, red sand.
	Timber, scattering cedar and pinon.
	Undergrowth, sagebrush.

	S.89°57'E., on a random line bet. secs. 13 and 24.
40.00	Set temp. ¼ sec. cor.
80.28	Intersect E. bdy. of the tp. 2 lks. S. of the cor. of secs. 13,18,19 and 24.
	Thence
	N.89°58'W., on true line bet. secs. 13 and 24.
	Over bench land through scattering cedar timber and undergrowth of sagebrush.
12.30	Top of ascent, bears N.80°W. and SE.; gradually descend along gentle S. slope. A heavy fringe of timber follows along top of ascent to the north.
40.14	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 24 1917
	from which
	A cedar, 10 ins.diam.,bears N.6½°E., 118 lks. dist.,marked ¼ S 13 B T
	No other trees available.
	Dig pits, 18 x 18 x 12 ins.,E.and W.of post, 3 ft.dist.

chains	
67.50	Top of descent and south edge of solid white sandstone bedrock, bears N. and S.; descend over W. slope 35 ft. to.
80.28	The cor. of secs. 13,14,23 and 24.
	Land, rolling and broken bench, drains NW.
	Soil, deep, loose, red sand and sandstone bedrock.
	Timber, scattering cedar and pinon.
	Undergrowth, sagebrush. Fair grazing.

	N.0°01'W., bet. secs. 13 and 14.
	Over broken bench land through scattering cedar and pinon timber and undergrowth of sagebrush. Gradually ascend.
6.00	West edge of solid white sandstone bedrock, bears N.10°E. and S.30°E.
11.80	Ridge, 20 ft. above cor., bears E. and W. for 3 chs. thence NW.; descend.
22.35	Wash, 15 lks. wide, 3 ft. deep, 35 ft. below ridge, course W.
28.95	Wash, 10 lks. wide, 3 ft. deep, course SW.; ascend.
40.00	On S. slope in white sand, 75 ft. above wash.
	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 | S13 1917
	from which
	A cedar, 5 ins.diam.,bears S.57¼°E., 154 lks. dist.,marked ¼ S 13 B T
	A pinon, 12 ins.diam.,bears S.72½°W., 86 lks. dist.,marked ¼ S 14 B T
56.40	Ridge, 70 ft. above ¼ sec. cor., bears NE. about 15 chs. to bench and SW.; descend over broken NW. slope.
65.00	Base of descent at head of hollow, course W., 65 ft. below ridge.
	Ascend 50 ft. to

chains	
79.78	Point for cor. of secs. 11,12,13 and 14 will fall on 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 cor. to the cor. of secs. 11,12,13 and 14, with brass cap marked

T43S R2W
WC
S11 | S12
S14 | S13
1917

from which

A pinon, 8 ins.diam.,bears N.56°E., 28 lks. dist.,marked W C T 43 S R 2 W S 13 B T

A cedar, 9 ins.diam.,bears S.48½°E., 34 lks. dist.,marked W C T 43 S R 2 W S 13 B T

A pinon, 8 ins.diam.,bears S.54½°W., 134 lks. dist.,marked W C T 43 S R 2 W S 14 B T

No other tree available.

I am unable to secure stone for additional mound and pits are impracticable on account of bedrock.

80.00	True cor. point for cor. of secs. 11,12,13 and 14 falls on steep NW. slope of white sandstone ledge, 35 ft. high, bears NE. and SW., impossible to set cor. Mark X for cor. point.
	Land, broken bench lands, general W. exposure and drainage.
	Soil, deep, loose, red and white sand and sandstone bedrock.
	Timber, scattering cedar and pinon.
	Undergrowth, sagebrush. Fair grazing.

	S.89°58'E., on a random line bet. secs. 12 and 13 from true cor. point of secs. 11,12,13 and 14.
40.00	Set temp. ¼ sec. cor.
80.25	Intersect E. bdy. of the tp. 2 lks. N. of the cor. of secs. 7,12,13 and 18.
	Thence

Subdivision of T.43 S., R.2 W.

chains	
	N.89°57'W., on true line bet. secs. 12 and 13.
	Over rough mountainous land through scattering cedar and pinon timber and sagebrush undergrowth. Abrupt descent over W. slope.
4.45	Gulch, 55 ft. below cor., heads about 3 chs. SW. and drains NE.; abrupt ascent.
6.90	Sharp spur, 70 ft. above gulch, projects NE.; descend steep, broken NW. slope.
10.30	Main gulch, 50 ft. below spur, course NE.; thence along broken S. slope.
21.50	Small gulch, course SE.; ascend NE. slope.
26.90	Spur, descends to the SE.; ascend abruptly SE. slope.
33.25	East brink of west Clark bench, 325 ft. above main gulch, bears NW. and SE. Thence over rough top of bench.
40.12½	On gentle SE. 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 S 12 / S 13 / 1917
	from which
	A cedar, 4 ins. diam., bears S.65¾°E., 103 lks. dist., marked ½ S 13 B T
	A cedar, 10 ins. diam., bears N.17½°E., 47 lks. dist., marked ½ S 12 B T
51.60	Leave rough top of bench, bears N. and S.; thence over more rolling ground.
66.70	Top of west brink of west Clark bench, 70 ft. above ¼ sec. cor., bears N. about 3 chs. to break which bears E. and W., and S.; descend over broken W. slope 50 ft.
80.25	The true cor. point of secs. 11, 12, 13 and 14.
	Land, rough, broken mountains and bench land; general E. exposure and drainage on E.66.70 chs. and west exposure and drainage on balance of mile.
	Soil, loose, deep sand and rocky of sandstone formation. Considerable bedrock exposed to surface.
	Timber, scattering cedar and pinon.

Subdivision of T.43 S.,R.2 W.

chains	
	Undergrowth, sagebrush. Fair grazing.
	N.0°01'W., bet. secs. 11 and 12 from true point of cor. of secs. 11,12,13 and 14.
	Over rough, broken bench lands, through scattering cedar and pinon timber and sagebrush undergrowth. Descend.
2.75	Draw, near head, 35 ft. below cor. point, course SW. Ascend.
15.10	Enter west Clark bench, bears NE. and SW.; thence across narrow divide ridge bears N: and S: and widens into be to the N. and SE.
40:00	In deep sand on gentle E. slope 40 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 S11 | S12 1917 from which A cedar, 8 ins.diam.,bears N.72½°E., 133 lks. dist.,marked ¼ S 12 B T A cedar 10 ins.diam.,bears S.42½°W., 233 lks. dist.,marked ¼ S 11 B T
61:10	Base of ridge or "Cockscomb", bears N.30°E. and S.30°W. Ascend along E. slope.
68.30	High point on E. slope of "cockscomb" ridge. Thence along broken E. slope.
80.00	On steep E. slope. Set an iron post, 3 ft. long, 2 ins. in dia., 6 ins. the ground on solid rock and 18 ins. in a mound of stone for cor. of secs. 1,2, 11 and 12, with brass ca marked T43S | R2W S2 | S1 S11 | S12 1917 from which A pinon, 14 ins.diam.,bears N.17°E., 256 lks. dist.,marked T 43 S R 2 W S 1 B T

chains	
	A pinon, 8 ins.diam.,bears S.2¾°E., 138 lks. dist.,marked T 43 S R 2 W S 12 B T
	A pinon, 7 ins.diam.,bears S.57°W., 158 lks. dist.,marked T 43 S R 2 W S 11 B T
	A cedar, 20 ins.diam.,bears N.17°W., 59 lks. dist.,marked T 43 S R 2 W S 2 B T
	Land, broken benches and mountainous; general E. and W. exposure and drainage from ridge at 61.10 chs.
	Soil, deep sand and sandstone rock.
	Timber, cedar and pinon.
	Undergrowth, sagebrush. Fair grazing.

	S.89°57'E., on a random line bet. secs. 1 and 12.
40.00	Set temp. ¼ sec. cor.
80.40	Intersect E. bdy. of the tp. 28 lks. N. of the true cor. point of secs. 1,6,7 and 12.
	Thence
	N.89°45'W., on true line bet. secs. 1 and 12.
	Over rough, broken mountainous land through scattering cedar and pinon timber and undergrowth of sagebrush.
3.55	Main gulch, drains SE.
9.35	Same gulch, course N.
11.60	Same gulch, course at bend from SW. to SE.
17.00	Gulch, from the NW., course S.80°E., joins main gulch about 50 lks. S.80°E.
23.65	Main gulch, course S.70°E.
28.40	Same gulch, course NE.
39.59	Point for ¼ sec. cor. will fall in gulch where cor. would be washed away, therefore at this point,
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for W.C. to ¼ sec.cor.with brass cap marked WC ¼ S 1 / S 12 1917
	from which
	A pinon, 6 ins.diam.,bears S.42°E., 97 lks. dist.,marked W C ¼ S 12 B T

chains	
	A cedar, 8 ins.diam.,bears N.78°W., 232 lks. dist.,marked W C ¼ S 1 B T
40.20	Gulch, from the NW., course SE. Point for ¼ sec. cor. in gulch, cor. not established at this point. Ascend abruptly E. slope over series of red and white sandstone ledges.
52.40	Top of steep ascent and enter broken west Clark bench, bears N. and S.; gradually ascend over sandstone bedrock.
55.40	Leave bedrock and enter deep, loose sand, bears N. and S.20°W.
77.40	Base of ridge, bears N.30°E. and S.30°W.; ascend abruptl over E. slope.
80.40	The cor. of secs. 1,2,11 and 12, 500 ft. above point for ¼ sec. cor. and 640 ft. above E. bdy. of tp.
	Land, mountainous, general E. exposure and drainage.
	Soil, rocky of sandstone formation with patches of deep, loose, fine red sand.
	Timber, scattering cedar and pinon.
	Undergrowth, sagebrush. Fair grazing.

	Knowing that closing cors. will be necessary upon the N. bdy. of the tp., I run
	N.0°01'W., on true line bet.secs. 1 and 2.
	Over rough mountainous land along E. slope of Cockscomb mountain, through cedar and pinon timber and undergro scattering sagebrush. Gradually ascend.
11.00	Top of Cockscomb, a sharp, rocky ridge, 140 ft. above sec. cor., bears N.20°E. and S.30°W. Ascend along W. slope near top of ridge.
[illegible]	Top of high point on ridge; 270 ft.above sec. cor.;desc
[illegible]	Top of same ridge, 200 ft. above sec. cor., bears N.20° and S.; descend over W. slope.
[illegible]	On steep W. slope, 20 ft. below ridge. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins.i a mound of stone on solid rock for ¼ sec. cor., with brass cap marked

chains

¼
S2 | S1
1917

from which

A pinon, 10 ins.diam.,bears N.37½°E., 47 lks. dist.,marked ¼ S 1 B T

A pinon, 6 ins.diam.,bears N.21°W., 74 lks. dist.,marked ¼ S 2 B T

Continue along steep, broken rocky west slope, descending.

71.10 Gully, near head, 465 ft. below ¼ sec. cor., course W.

Continue along west slope.

79.17 70 ft. below gully.

Intersect the N. bdy. of the tp., 1.15 chs. S.89°55'W. of the cor. of secs. 35 and 36.

At intersection,

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 stone for closing cor. of secs. 1 and 2, with brass cap marked

T42S R2W
S35
S2 | S1
T43S
CC
1917

from which

A cedar, 10 ins.diam.,bears S.86½°E., 76 lks. dist., marked C C T 43 S R 2 W S 1 B T

A cedar, limb, 6 ins.diam.,bears S.22½°W., 53 lks. dist.,marked C C T 43 S R 2 W S 2 B T

Land, rough mountainous; general E. and W. exposure and drainage from divide at 11.00 chs.

Soil, red, sandy clay and rocky of sandstone formation, on rocky and hard clay sub-soil.

Timber, scattering cedar and pinon.

Undergrowth, sagebrush.

From the cor. of secs. 2,3,34 and 35 on the S. bdy. of

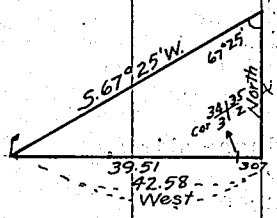
chains

the tp.,

N.0°01'W., bet. secs. 34 and 35.

The line north passes over the south break of West Clark Bench and cannot be chained, I therefore triangulate as follows:

Being unable to set a flag N.0°01'W. on true line, I offset east, 307 lks. and set a flag north on top of ledges and bench. From flag on top of ledges, a flag set 39.51 chs. west of the cor. of secs. 2,3,34 and 35 on the tp. bdy., bears S.67°25'W., therefore



log. cotan 67°25' = 9.619008
Log 4258 chs. = 1.629206
Log. 17.71 chs. = 1.248214

17.71 To point of triangulation on top of ledges and edge of broken bench, 600 ft. above tp. bdy., bears NW. and SE. I am unable to offset to true line at this point on account of the break of the bench making a sharp turn to the north immediately west of this point., I therefore continue N.0°01'W. on 3.075 chs. offset.

Over sandstone bedrock near west break of bench. Land rough and broken.

40.00 Offset west, 3.075 chs. to true line.

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
S34 | S35
1917

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

Being unable to continue north on true line from this ¼ sec. cor. either by triangulating or offseting on account of ledges and the peculiar lay of the country I run a traverse line as follows:

N.44° 05'W., 6.68 chs.

N.15°E., 17.96 chs. to

62.15 A point on true line at base of high broken ledges on west break of west Clark bench, bears NE. and SW. for

chains	
	1 ch., thence S.10°E. about 10 chs., thence SW.
	Thence N.0°01'W., on true line.
	Over west slope of solid sandstone bedrock.
80.00	Point for cor. of secs. 26,27,34 and 35 falls on west
	slope of solid sandstone bedrock. It is impracticable
	to set an iron post within 20 chs. of the true cor.
	point, I therefore do not set post and mark ledge for
	cor. of secs. 26,27,34 and 35 as follows:
	At exact position of cor. marked solid bedrock ⊥ II
	and raise a mound of stone, 2 ft. base, 1½ ft. high,
	W. of cor.
	Land, rough, broken mountainous; west exposure, S.
	drainage.
	Soil, none. Surface solid sandstone bedrock.
	No timber.
	No undergrowth.

	East, on a random line bet. secs. 26 and 35.
40.00	Set temp. ¼ sec. cor.
80.06	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 mountain top, through deep, loose sand,
	scattering cedar and pinon timber and undergrowth of
	sagebrush, greasewood and sandgrass.
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 S26/S35 1917
	from which
	A cedar, 6 ins. diam., bears S.51°W., 455 lks.
	dist., marked ¼ S 35 B T
	A cedar, 10 ins. diam., bears N.83°W., 430 lks.
	dist., marked ¼ S 26 B T
57.25	West edge of west Clark bench; leave timber and under-

chains	
	growth, bears N. and S.; begin abrupt descent over W. slope over solid sandstone bedrock.
80.06	The cor. of secs. 26,27,34 and 35, 300 ft. below brink of bench.
	Land, E.57.25 chs. rolling mountain top, general N. exposure and drainage; remainder of mile, rough west break of mountain.
	Soil, of mountain top, deep, loose, fine, red sand. Soil of remainder of mile, none.
	Timber, scattering cedar and pinon on E. 57.25 chs.
	Undergrowth, sagebrush, greasewood and sandgrass on E.57.25 chs. Good grazing on E. 57.25 chs.

	N.0°01'W., bet. secs. 26 and 27.
	Over rough mountainous land along steep west break of west Clark bench, across solid sandstone bedrock. No vegetation.
31.05	Depression or drain in break, 80 ft. below sec. cor., drains W.; abrupt ascent of SE. slope of detached sandstone pinnacles and buttes 200 ft. to
40.00	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 S27 | S26 1917
	from which
	A sandstone ledge, marked B O X, bears west, 6 lks.
	Impracticable to build other accessories to cor.
	Cor. situated 40 lks. SE. of a small water pocket.
41.10	Top of conical shaped sandstone pinnacle, 30 ft. above ¼ sec. cor.; descend.
62.40	Wash, 1 ch. wide, 4 ft. deep, 630 ft. below pinnacle, comes from the NE. and drains N.80°W. about 5 chs. to Buckskin gulch.; ascend broken slope through deep, loose sand and scattering sandstone bedrock.

chains	
72.70	Top of short sand ridge, 100 ft. above wash, extends SW. 1 ch. and bears NE.; descend 60 ft. to
80.00	Point for cor. of secs. 22,23,26 and 27 falls on steep barren sandstone slope, impossible to set cor. at this point. Cor. perpetuated on safe ground, 63 lks. N.89°51'W., for description of same, see line bet. secs. 22 and 27.
	Land, rough, broken mountains, general W. exposure and southerly drainage.
	Soil, patches of deep, loose, fine red sand. Land chiefly sandstone bedrock.
	No timber.
	No undergrowth.

	From true cor. point for cor. of secs. 22,23,26 and 27 S.89°56'E., on a random line bet. secs. 23 and 26.
40.00	Set temp. ¼ sec. cor.
79.96	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 bench land through scattering cedar and pinon timber and undergrowth of sagebrush. Gradually descend.
22.60	Top of ledges and west break of west Clark bench, bears N. and S.; descend abruptly over ledges.
37.55	Base of ledges and break, 360 ft. below sec. cor., bears N. and S. Drain at base of breaks , drains S. Thence over rolling sandy land through few scattered cedars; gradually ascend 40 ft. to
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 23
¼ S 26
1917

from which

A cedar, 8 ins.diam., bears N.60°E., 251 lks.

chains	
	dist.,marked ¼ S 23 B T
	A cedar, 18 ins.diam.,bears S.24°E., 199 lks. dist.,marked ¼ S 26 B T
49.35	Top of ascent, bears N. and S.; gradually descend.
67.60	Base of descent, also base of ridge, 130 ft. below top of ascent, bears N. and S.; ascend.
76.80	Ridge, 50 ft. above base, bears NE. and SW.; descend abruptly 80 ft. to
79.96	The true cor. point for cor. of secs. 22,23,26 and 27.
	Land, eastern portion rolling bench, remainder of mile rough and broken; general W. exposure and drainage.
	Soil, deep, loose, fine, red sand and sandstone bedrock.
	Timber, scattering cedar and pinon.
	Undergrowth, sagebrush. Fair grazing.

	From true cor. point for cor. of secs. 22,23,26 and 27 N.0°01'W., bet. secs. 22 and 23.
	Over rough mountainous land, through cedar and pinon timber and undergrowth of sagebrush. Descend.
4.00	Left bank of Buckskin wash in gulch, 10 ft. high, bears NE. and SW.
4.80	Bottom of wash, course SW.
5.50	Right bank of Buckskin wash, bears NE. and SW.
	Thence across bottom lands.
12.80	Leave bottom lands, bears NE. and SW.; ascend abruptly over broken slope.
31.50	Spur, 440 ft. above wash, projects NE.
35.10	Descend abruptly.
40.00	On rocky N. slope, 100 ft. below spur.
	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

S22 | S23

1917

from which

A cedar, 8 ins.diam.,bears S.17°E., 47 lks.

chains	
	dist., marked ¼ S 23 B T
	A cedar, 6 ins. diam., bears S.30½°W., 10 lks. dist., marked ¼ S 22 B T
41.95	Draw, 75 ft. below ¼ sec. cor., heads about 6 chs. SW. and drains N.20°E.; thence along broken E. slope ascending and descending.
65.75	Spur, projects NE., about 5 chs.; descend.
67.25	Enter bottom lands at base of sandstone outcroppings, bears NW. and SE.
74.05	Right bank of Buckskin wash in draw, bears NW. and SE.
74.60	Bottom of Buckskin wash, 320 ft. below ¼ sec. cor., course S.60°E.
75.25	Left bank of Buckskin wash, 8 ft. high, bears NW. and SE. Gradually ascend.
78.00	Leave bottom lands, bears NW. and SE.; ascend abruptly.
80.00	On rocky west slope.

Set an iron post, 3 ft. long, 2 ins. in dia., 4 ins. in the ground on solid rock and 20 ins. in a mound of stone for cor. of secs. 14,15,22 and 23, with brass cap marked

T43S	R2W
S15	S14
S22	S23

1917

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

No suitable trees available.

Land, rough mountainous, slopes and drains into Buckskin wash which drains S.

Soil, sandy clay and rocky of sandstone formation. Considerable amount of bare surface rock.

Timber, scattering cedar and pinon.

Undergrowth, sagebrush.

S.89°51'E., on a random line bet. secs. 14 and 23.

40.00	Set temp. ¼ sec. cor.
79.95	Intersect N. and S. line 9 lks. N. of the cor. of secs.

chains	
	13,14,23 and 24.
	Thence
	N.89°47'W., on true line bet. secs. 14 and 23.
	Over rolling bench land, through scattering cedar and pinon timber and undergrowth of sagebrush. Gradually descend.
2.00	Swale, 10 ft. below sec. cor., course N.30°W.; gradually ascend.
20.00	Top of ascent, 25 ft. above swale, bears N. and S.; gradually descend.
39.97½	On west edge of breaks of West Clark Bench, 75 ft. below top of ascent, bears N. and S.
	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 14 / S 23 / 1917
	from which
	A cedar, 6 ins. diam., bears S.9°E., 38 lks. dist., marked ¼ S 23 B T
	A cedar, 6 ins. diam., bears N.54½°W., 27 lks. dist., marked ¼ S 14 B T
	Descend abruptly over breaks.
46.00	Canyon, near head, 105 ft. below ¼ sec. cor., course S. Thence over broken ground descending.
57.80	Bottom of narrow, rocky canyon, 250 ft. below ¼ sec. cor., course S.20°W.; ascend.
65.60	Rocky spur, 85 ft. above canyon, projects S.; descend.
70.50	Mouth of canyon into Buckskin gulch, 140 ft. below spur, course SW.; ascend abruptly.
76.85	Rocky point, 125 ft. above canyon, projects S. 3 chs.; descend abruptly 150 ft. to
79.95	The cor. of secs. 14,15,22 and 23.
	Land, east ½ mile, rolling bench; remainder of mile, rough, broken mountains; general SW. exposure and drainage.

Subdivision of T.43 S.,R.2 W.

chains	
	Soil, deep, loose, red sand and sandstone rock.
	Timber, scattering cedar and pinon.
	Undergrowth, sagebrush. Fair grazing in E.½ mile.

	N.0°01'W., bet. secs. 14 and 15.
	Over rough, broken mountainous land through cedar and pinon timber and undergrowth of sagebrush and greasewood. Ascend abruptly.
7.90	Spur, 155 ft. above cor., projects S.60°W.; continue to ascend over broken W. slope.
15.15	Spur, 75 ft. above last spur, projects S.40°W.;descend.
16.80	Gulch, near head, 20 ft. below spur, course S.40°W.; ascend.
22.50	High, sharp ridge, 120 ft. above gulch, bears N.30°E. and S.30°W.; descend abruptly.
37.12	Mouth of tunnel, approximately 400 ft. long, bears E. about 3 chs. distant.
40.00	Near base of descent on NW. slope of small clay hill, 310 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 S15 | S14 1917
	from which
	A cedar, 6 ins.diam.,bears N.52°E., 329 lks. dist.,marked ¼ S 14 B T
	A cedar, 8 ins.diam.,bears S.30°W., 212 lks. dist.,marked ¼ S 15 B T
41.00	Base of descent and enter wide draw, bears NE. and SW.
47.00	Bottom of draw and wash, 10 lks. wide, 4 ft. deep, 15 ft. below ¼ sec. cor., course S.30°W.; gradually ascend.
53.30	Road, Pahreah to Lee's Ferry, bears NE. and SW.
55.00	Leave draw, bears NE. and SW.; ascend over broken SE. slope.
69.40	Top of ascent, 115 ft. above wash, thencedescend.

chains

74.00 Gully, 25 ft. deep, course SE.; ascend 60 ft. to

80.00 On NE. slope.

Set an iron post, 3 ft. long, 2 ins. in dia., 10 ins. in the ground on solid rock and 14 ins. in a mound of stone for cor. of secs. 10,11,14 and 15, with brass cap marked

T43S	R2W
S10	S11
S15	S14

1917

from which

A cedar, 8 ins.diam.,bears N.73½°E., 30 lks. dist.,marked T 43 S R 2 W S 11 B T

A cedar, 12 ins.diam.,bears S.51½°E., 118 lks. dist.,marked T 43 S R 2 W S 14 B T

A cedar, 8 ins.diam.,bears N.11¼°W., 307 lks. dist.,marked T 43 S R 2 W S 10 B T

A cedar, 7 ins.diam.,bears S.84½°W., 342 lks. dist.,marked T 43 S R 2 W S 15 B T

Land, rough mountainous; general NW. exposure on southern portion, E. exposure on northern portion.

Soil, sandy clay loam, gravelly and rocky on rocky sub-soil. Sandstone formation in the S.½, limestone formation in the N.½ mile.

Timber, cedar and pinon.

Undergrowth, sagebrush and greasewood, Fair grazing.

S.89°47'E., on a random line bet. secs. 11 and 14.

40.00 Set temp. ¼ sec. cor.

80.00 Intersect N. and S. line 2 lks. S. of the true cor. point of secs. 11,12,13 and 14.

Thence

N.89°48'W., on true line bet. secs. 11 and 14.

Over broken mountainous land in the breaks of the Cockscomb, through scattering cedar and pinon timber and undergrowth of sagebrush and greasewood. Descend abruptly.

chains	
3.45	Draw, 65 ft. below cor. point, course SW.; ascend.
11.50	High, sharp spur, 65 ft. above draw, projects S. 3 chs. and comes from the NE.; descend abruptly.
17.55	Main canyon, 175 ft. below spur, course S.30°W. Trail over Cockscomb, in canyon, bears N.30°E. and S.30°W. Ascend abruptly.
27.00	Top of Cockscomb ridge, 140 ft. above canyon, bears N.30°E. and S.30°W.; descend abruptly.
30.90	Draw, 150 ft. below ridge, course S.30°E.; ascend.
37.50	Spur, 25 ft. above draw, projects S.; descend abruptly.
40.00	On steep NW. slope, 100 ft. below spur.
	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
	S 11 / ¼ S 14 / 1917
	from which
	A cedar, 14 ins.diam., bears N.21°W., 55 lks. dist., marked ¼ S 11 B T.
	No other suitable trees available.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
54.00	Base of steep descent and enter large draw, 160 ft. below ¼ sec. cor., bears N. and S. Thence in draw.
57.10	Road, Pahreah to Lee's Ferry, bears N.20°E. and S.20°W.
61.20	Wash, in bottom of draw, 30 lks. wide, 1 ft. deep, course S.20°W.
62.40	Leave draw, bears N.20°E. and S.20°W.; ascend over broken red clay hills covered with shale rock.
79.05	Near head of small ravine, 10 ft. deep, course S.
80.00	The cor. of secs. 10,11,14 and 15, 100 ft. above wash.
	Land, rough, broken mountains ; General S. exposure and drainage.
	Soil, red, sandy clay loam and rocky of sandstone and limestone formation, on rocky and hard, dry clay sub-soil.
	Timber, scattering scrub cedar and pinon.

chains	
	Undergrowth, sagebrush and greasewood. Fair grazing.
	N.0°01'W., bet. secs. 10 and 11.
	Gradually ascend over rolling and broken mountainous land exposed to the SE., through scattering scrub cedar and pinon timber and undergrowth of sagebrush.
40.00	On gentle SE. slope, 325 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 / S10 | S11 / 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Trees are within limits in both secs. but are too poor to mark.
53.45	Begin descent into gulch, bears NW. and SE.
59.30	Bottom of gulch at bend from N.20°E. to course of SE. and also junction of small gulch which heads about 5 chs. W. Thence over broken ground.
68.35	Gulch, drains SE.; ascend abruptly 150 ft. to
80.00	On top of ascent or ridge, bears NW. and SE. Set an iron post, 3 ft. long, 2 ins. in dia., 10 ins. in the ground on solid rock and 14 ins. in a mound of stone for cor. of secs. 2,3,10 and 11, with brass cap marked T43S | R2W / S3 | S2 / S10 | S11 / 1917 raise a mound of stone 3 ft. base, 3 ft. high, W. of cor.
	Land, broken mountainous, general SE. exposure and drainage.
	Soil, shallow brown clay loam and rocky of limestone formation, on hard, dry clay and rocky sub-soil.
	Timber, scrub cedar and pinon.

chains	
	Undergrowth, sagebrush. Fair grazing.
	S.89°48'E., on a random line bet. secs. 2 and 11.
40.00	Set temp. ¼ sec. cor.
80.02	Intersect N. and S. line 7 lks. S. of the cor. of secs. 1,2,11 and 12.
	Thence
	N.89°51'W., on true line bet. secs. 2 and 11.
	Over rough mountainous land through scattering cedar and pinon timber and undergrowth of sagebrush. Ascend abruptly E. slope.
4.00	Top of Cockscomb ridge, 75 ft. above cor., bears N.20°E. and S.20°W.; descend precipitous west face of ridge over ledges and boulders.
30.70	Base of descent and wide draw, 450 ft. below ridge, course N.; road, Pahreah to Lee's Ferry, bears N. and S. Low divide in draws, bears S. about 10 chs.; ascend.
40.01	On E. slope, 100 ft. above road.
	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 2 / S 11 / 1917
	from which
	A cedar, 10 ins.diam.,bears N.46½°E., 24 lks. dist.,marked ¼ S 2 B T
	A cedar, 12 ins.diam., bears S.15°E., 72 lks. dist., marked ¼ S 11 B T
	Continue ascent.
68.75	Ridge, 250 ft. above ¼ sec. cor., bears NW. and SE.; descend.
73.50	Gully, 45 ft. below ridge, course SE.; ascend abruptly 115 ft. to
80.02	The cor. of secs. 2,3,10 and 11.
	Land, rough mountains with general E. and W. slopes of ridges into draws draining NE.,N. and S.

Subdivision of T. 43 S., R. 2 W.

chains	
	Soil, sandy clay loam and rocky of sandstone and limestone formation; on hard, dry clay and rocky sub-soil.
	Timber, scattering scrub cedar and pinon.
	Undergrowth, sagebrush. Fair grazing.
	N.0°01'W., on true line bet. secs. 2 and 3.
	Over mountainous land along general E. break of Buckskin mountain, through scrub cedar and pinon timber and sagebrush undergrowth. Gradually ascend.
10.90	Descend into gulch, bears E. and W.
13.45	Small gulch, heads about 5 chs. west and drains E. ascend.
18.85	Top of ascent on E. slope, bears E. and W.; descend.
22.45	Gulch, 50 ft. below top of ascent, heads about 15 chs. west and drains E.; Ascend.
29.30	Spur, 65 ft. above gulch, projects SE.; thence along broken E. slope.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 4 ins. in the ground on solid rock and 22 ins. in a mound of stone for ¼ sec. cor., with brass cap marked
	¼ S3 | S2 1917
	from which
	A cedar, 15 ins. diam., bears N.12°E., 50 lks. dist., marked ¼ S 2 B T
	A cedar, 9 ins. diam., bears N.11°W., 120 lks. dist., marked ¼ S 3 B T
41.10	Head of small gully, course SE. for about 12 chs., thence E.
50.45	Gully, near head, course E.
55.00	Gully, near Head, course SE.
61.00	Ridge, 75 ft. above ¼ sec. cor., bears E. and W.
63.45	Begin descent over NE. slope, bears E. and W.
75.00	Gulch, 150 ft. below ridge, course SE. for about 8 chs., thence E.; abrupt ascent 125 ft. to

chains	
78.88	On N. brink of gulch, bears NW. and SE.
	Intersect N. bdy. of the tp. 1.76 chs. S.89°55'W. of the cor. of secs. 34 and 35, S. bdy. of T.42 S.,R.2 W.
	At intersection,
	Set an iron post, 3 ft. long, 2 ins. in dia., 4 ins. in the ground on solid rock and 20 ins. in a mound of stone for closing cor. of secs. 2 and 3, with brass cap marked
	T42SR2W S34 S3 | S2 T43S CC 1917
	from which
	A cedar, 5 ins.diam., bears S.77°W., 126 lks. dist.;marked C C T 43 S R 2 W S 3 B T
	No other suitable trees available.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor.
	Land, rough, broken mountains; general E. exposure and drainage.
	Soil, shallow; brown clay loam and rocky of limestone formation,on gravelly and rocky sub-soil.
	Timber, scrub cedar and pinon:
	Undergrowth, sagebrush and scattering juniper. Fair grazing.

	From the cor. of secs. 3,4,33 and 34 on the S. bdy. of the tp.,
	N.0°02'W., bet. secs. 33 and 34.
	Over rough mountainous land through scattering cedar and pinon timber and undergrowth of sagebrush and grease-wood. Descend over N. slope.
5.35	Coyoto wash, in draw, 50 lks. wide, 10 ft. deep, 35 ft. below cor., course E. for about 2 chs., thence S. Ascend over S. slope through deep sand.

chains	
15.70	Spur, 100 ft. above wash, projects SE.; descend NE. slope.
19.00	Gulch, 65 ft. below spur, course S.20°E.; ascend abruptly SW. slope over broken red sandstone ledges and sandstone outcroppings.
38.75	West end of point of sandstone ledge, 320 ft. above gulch. Descend from ledge; thence ascend.
40.00	At base of sandstone ledge, bears N.10°E. and S.10°W. for 125 lks. thence S.20°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 S33 | S34 1917
	from which
	A cedar, 12 ins. diam., bears N.22½°W., 65 lks. dist., marked ¼ S 33 B T
	West face of sandstone ledge, 50 ft. high, mark X B O, bears N.82°49'E., 30 lks. dist.
	Continue abrupt ascent over ledges and sandstone outcrops.
51.15	Top of high ridge divide between tributaries of Coyoto wash and Buckskin gulch, 200 ft. above ¼ sec. cor., bears N.30°E. and SE.; gradually descend over rough, broken W. slope.
70.40	Gulch, 200 ft. below ridge, course SW.; ascend.
73.60	Spur, 50 ft. above gulch, projects SW. for about 4 chs. descend.
76.90	Gulch, course at bend from the NW. to S.35°W.; ascend over sandstone outcroppings.
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
	T43S | R2W S28 | S27 S33 | S34 1917
	from which

chains	
	A cedar, 10 ins.diam.,bears N.16°E., 59 lks. dist.,marked T 43 S R 2 W S 27 B T
	A cedar, 6 ins.diam.,bears S.68°E., 21 lks. dist.,marked T 43 S R 2 W S 34 B T
	A cedar, 16 ins.diam.,bears S.20¼°W., 154 lks. dist.,marked T 43 S R 2 W S 33 B T
	A cedar, 8 ins.diam.,bears N.42¾°W., 52 lks. dist.,marked T 43 S R 2 W S 28 B T
	Land, rough mountainous, general SW. exposure; drains S. and E.
	Soil, deep, loose, fine red sand and soft sandstone rock.
	Timber, cedar and pinon.
	Undergrowth, sagebrush, greasewood and patches of chaparral. Fair grazing.
	East, on a random line bet. secs. 27 and 34.
40.00	Set temp. ¼ sec. cor.
80.12	Intersect N. and S. line 14 lks. N. of the cor. of secs. 26,27,34 and 35
	Thence N.89°54'W., on true line bet. secs. 27 and 34.
	Over rough mountainous land. Descend abruptly over solid sandstone bedrock on west break of west Clark bench.
17.65	Base of bench, enter bottom of Bucksin gulch and leave solid sandstone bedrock, bears N. and S. Thence in bottom of gulch, entering scattering cedar and pinon timber and sagebrush undergrowth.
27.65	Bottom of Buckskin gulch and wash, 75 lks. wide, 6 ft. deep, course S. The wash enters a sandstone box about 20 chs. south. From this point Pigeon seap at base of ledges on west Clark bench, bears about north. This is a sand seap and is subject to drying up in the summer months. Ascend.
40.06	On small bench, 125 ft. above Buckskin gulch. 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.43 S.,R.2 W.

chains	
	$\frac{1}{4}$ $\frac{S\ 27}{S\ 34}$ 1917
	from which
	A cedar, 10 ins.diam.,bears S.1°W., 173 lks. dist.,marked $\frac{1}{4}$ S 34 B.T
	A cedar, 7 ins.diam.,bears N.70°W., 205 lks. dist.,marked $\frac{1}{4}$ S 27 B.T
	Ascend abruptly over sandy E. slope.
57.50	Sandy spur, 250 ft. above $\frac{1}{4}$ sec. cor., projects NE.; descend.
60.00	Gulch, 25 ft. below spur, course NE., heads about 5 chs. SW.; ascend precipitous E. slope over sandstone ledges and boulders.
67.40	From this point Pigeon seap, bears N.72°45'E.
68.00	Top of sharp rocky ridge and divide bet. tributaries of Coyoto wash and Buckskin gulch, 300 ft. above gulch bears N. and S.; abrupt descent west slope over sandstone ledges 25 to 50 ft. high.
75.85	Gulch, 300 ft. below ridge, course S.10°W.; ascend abruptly
78.30	Spur, 40 ft. above gulch, projects S.15°W.; descend 30 ft. to
80.12	The cor. of secs. 27,28,33 and 34.
	Land, rough mountainous with rough, rocky E. and W. slopes into gulches draining S.
	Soil, deep, loose, red sand and sandstone bedrock.
	Timber, scattering cedar and pinon.
	Undergrowth, sagebrush and greasewood. Fair grazing on western and central portion of mile.

	N.0°02'W., bet. secs. 27 and 28.
	Over rough mountainous land through scattering scrub cedar and pinon timber and undergrowth of sagebrush. Ascend abruptly over S. slope.
12.70	Top of ridge spur, 225 ft. above sec. cor., projects SW. and comes from high, ledgy ridge divide about 5 chs. NE. Thence along, rough, broken, rocky W. slope.

Subdivision of T.43 S.,R.2 W.

chains	
28.40	Head of gulch, drains SW.; ascend abruptly over red and white sandstone ledges and bedrock.
36.65	Top of sharp, rocky, broken sandstone ridge, 200 ft. above spur, bears SE. and N.10°W.; descend abruptly over ledges.
40.00	On steep, ledgy NE. slope, 75 ft. below ridge at head of ravine draining NE.
	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 S28 | S27 1917
	from which
	E.face of sandstone ledge, marked B X O , bears west, 10 lks.
	Trees are available in both secs. but are too scrubby to mark.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, NW. of cor. Impossible to set mound of stone west on account of ledge.
43.00	Sharp, rocky spur, projects NE.; descend.
62.20	Gulch, 360 ft. below ¼ sec. cor., course N.80°E.
68.00	Spur, 60 ft. above gulch, projects NE.; descend.
70.65	Small rocky draw, near head of same, 25 ft. below spur, course NE.; ascend.
74.75	Spur, 25 ft. above draw, projects N.80°E.; descend.
76.70	Gulch, 30 ft. below spur, course N.80°E.; ascend.
80.00	On steep, rocky SE. slope 60 ft. above gulch.
	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 cor. of secs. 21, 22, 27 and 28, with brass cap marked
	T43S | R2W S21 | S22 S28 | S27 1917

chains	
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Trees are within limits in all secs. but are too scrubby to mark.
	Land, rough mountainous; SW. exposure and drainage on S. 36.65 chs., general NE. exposure and drainage on N. 43.35 chs.
	Soil, sandy clay loam, gravelly and rocky of sandstone formation, on hard, dry clay and rocky sub-soil. Considerable bedrock exposed to surface.
	Timber, scrub cedar and pinon.
	Undergrowth, sagebrush. Poor grazing.

	S. 89°54'E., on a random line bet. secs. 22 and 27.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line 7 lks. N. of the true cor. point for cor. of secs. 22,23,26 and 27.
	Thence
	N.89°51'W., on true line bet. secs. 22 and 27.
	Over rough, broken mountainous land, through scattering scrub cedar and pinon timber and sagebrush undergrowth. Descend over sandstone slope.
.63	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for witness cor. to the cor. of secs. 22,23, 26 and 27, with brass cap marked

T43S | R2W
S22 | S23
S27 | S26 WC
1917

from which

NW. face of sandstone ledge, marked XBO, bears east, 16 lks.

No suitable trees are within limits and as there is no stone available for mound I do not build any accessories to cor.

1.15	Left bank of Buckskin wash, in draw, 10 ft. high, bears NE. and SW.

chains	
2.20	Bottom of wash, course SW.
3.50	Right bank of wash, bears NE. and SW.
4.70	Leave draw, bears NE. and SW.; ascend abruptly.
12.90	Ridge, 90 ft. above draw, bears N. and S.; descend.
18.75	Gulch, 130 ft. below ridge, course S.; Ascend over broken E. and N. slopes.
40.00	On steep, rocky N. slope about 3 chs. south of deep gulch to the N., and about 200 ft. above gulch to the 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 $\frac{1}{4}\ \frac{S\ 22}{S\ 27}$ 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	No suitable trees available.
43.40	Spur, 30 ft. above ¼ sec. cor., projects N.; descend.
47.90	Main gulch, 110 ft. below spur, course N.80°E.; ascend.
52.00	Point, 80 ft. above gulch, projects S.; descend.
55.35	Gulch, 30 ft. below point, course SE.; ascend.
63.70	Spur, 120 ft. above gulch, projects NE.; descend.
67.60	Shallow draw, drains NE.; ascend.
71.60	Spur, 50 ft. above draw, projects NE.; descend.
73.60	Gulch, 60 ft. below spur, course NE.; ascend abruptly steep SE. slope 115 ft. to
80.00	The cor. of secs. 21,22,27 and 28.
	Land, rough, broken mountains, generally exposed to the NE. and general drainage S.
	Soil, Sandy clay loam, gravelly and rocky of red sandstone formation, on hard, dry clay and rocky sub-soil.
	Timber, scattering scrub cedar and pinon.
	Undergrowth, sagebrush. Poor grazing.

	N.0°02'W., bet. secs. 21 and 22.
	Over rough, broken mountainous land through scattering cedar and pinon timber and undergrowth of sagebrush and weeds. Red and white sandstone formation.

Subdivision of T.43 S.,R.2 W.

chains	
	Gradually ascend along E. slope of sharp ridge.
13.10	Sharp, sandstone ridge, 110 ft. above sec. cor., bears N.30°E. and S.30°W.; descend.
40.00	On gentle N. slope, 325 ft. below ridge and 2 chs. SE. of road from Pahreah to Lee's Ferry.
	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 1917
	from which
	A cedar, 12 ins.diam.,bears N.63°E., 49 lks. dist.,marked ¼ S 22 B T
	A cedar, 16 ins.diam.,bears N.68°W., 49 lks. dist.,marked ¼ S 21 B T
40.80	Small wash, course NW.
42.30	Road, Pahreah to Lee's Ferry, bears N.30°E. and S.30°W.
43.00	Bottom of draw and wash, 50 ft. below ½ sec. cor., course N.30°E. Thence over low, rolling benches sloping NE.
56.45	Small wash in ravine, course NE.; ascend steep, broken, bare red clay slope.
64.40	Top of E. point of bench, 125 ft. above ravine, bears NW. and SW.; thence along broken E. slope.
73.70	S. edge of bench, bears E. and SW.; descend gentle N. 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. 15,16,21 and 22, with brass cap marked
	T43S | R2W S16 | S15 S21 | S22 1917
	from which
	A cedar, 10 ins.diam.,bears N.49°E., 206 lks. dist.,marked T 43 S R 2 W S 15 B T
	A cedar, 5 ins.diam.,bears S.23½°E., 53 lks. dist.,marked T 43 S R 2 W S 22 B T

Subdivision of T.43 S.,R.2 W.

chains	
	A cedar, 10 ins.diam.,bears S.43½°W., 110 lks. dist.,marked T 43 S R 2 W S 21 B T
	A cedar, 30 ins.diam.,bears N.67°W., 183 lks. dist.,marked T 43 S R 2 W S 16 B T
	Land, rough, broken mountains, general N. exposure and drainage.
	Soil, gravelly, rocky and red clay,on hard, dry clay and rocky sub-soil. Sandstone formation.
	Timber, cedar and pinon.
	Undergrowth, sagebrush and weeds. Fair grazing.
	S.89°51'E., on a random line bet. secs. 15 and 22.
40.00	Set temp. ¼ sec. cor.
79.96	Intersect N. and S. line 5 lks. N. of the cor. of secs. 14,15,22 and 23.
	Thence
	N.89°49'W., on true line bet. secs. 15 and 22.
	Over rough mountainous land through scattering cedar and pinon timber and undergrowth of sagebrush. Over sandstone outcroppings.
8.00	Top of spur, projects S. about 3 chs.; descend.
16.75	Base of descent and edge of Buckskin draw, bears N. and S. Draw is narrowing at this point from wide flat to the N. Thence across draw.
17.85	Left bank of Buckskin wash, 8 ft. high, bears N. and S.
18.40	Center of wash, course S.
18.95	Right bank of wash, bears N. and S.
19.50	Leave draw, bears N. and S.; ascend abruptly.
26.70	High, sharp ridge, 300 ft. above wash, bears N.30°E. about 5 chs. and S.30°W.; descend over broken NW.slope.
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 S 15 / S 22 / 1917

from which

A cedar, 10 ins.diam.,bears S.8°E., 15 lks.

chains	
	dist.,marked ¼ S 22 B T
	A cedar, 6 ins.diam.,bears N.44½°W., 84 lks. dist.,marked ¼ S 15 B T
44.70	Base of ridge and enter wide draw, 300 ft. below ridge, bears NE. and SW.
45.30	Road, Pahreah to Lee's Ferry, bears NE. and SW.
45.80	Wash, in bottom of draw, 15 lks. wide, 2 ft. deep, course NE.; gradually ascend.
51.60	Point of spur from the S.80°W., 70 ft. above draw.; thence along broken N. clay slope.
59.75	Sharp clay spur, 70 ft. above last spur, projects N. Continue along broken N. slope.
79.86	The cor. of secs. 15,16,21 and 22.
	Land, mountainous; general NE. exposure and S. drainage. Soil, sandy red clay and rocky of sandstone formation; on hard, dry clay and rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush. Fair grazing.

	N.0°02'W., bet. secs. 15 and 16.
	Over rough, broken clay hills and benches, through scattering cedar and pinon timber and sagebrush undergrowth. Gradually descend.
10.00	Small wash. course NE.
19.50	Main wash, 25 lks. wide, 3 ft. deep, course E., 40 ft. below sec. cor.; ascend.
20.70	Top of ascent on E. slope; descend.
21.65	Wash, 20 lks. wide, 5 ft. deep, course E.; junction of washes just east of line.; ascend.
36.30	Top of ascent on E. slope, 125 ft. above wash.; descend.
40.00	On NE. slope. 35 ft. below top of ascent. 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

S16 | S15

1917

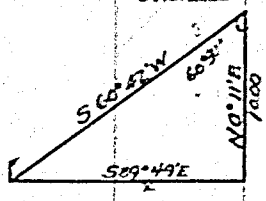
chains	
	from which
	A pinon, 14 ins.diam.,bears S.60°E., 47 lks. dist.,marked ¼ S 15 B T
	A cedar, 14 ins. diam.,bears S.61½°W., 88 lks. dist.,marked ¼ S 16 B T
41.40	Junction of washes from N.20°E. and NW., course SE.
46.40	Wash, course SE.; ascend over broken bench lands.
70.45	Wash, course E.
80.00	Near brink of Buckskin gulch, 300 ft. above ¼ sec. cor. Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a mound of stone on solid rock for cor. of secs. 9,10,15 and 16, with brass cap marked

T43S	R2W
S9	S10
S16	S15

1917

	from which
	A cedar, 8 ins.diam.,bears S.78½°E., 76 lks. dist.,marked T 43 S R 2 W S 15 B T
	A cedar, 7 ins.diam.,bears S.6½°W., 53 lks. dist., marked T 43 S R 2 W S 16 B T
	No other trees available.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, mountainous and broken bench lands, general E. exposure and drainage.
	Soil, shallow brown and red sandy clay loam and rocky of sandstone and limestone formation; on hard, dry clay and rocky sub-soil.
	Timber, scattering cedar and pinon.
	Undergrowth, sagebrush, Fair grazing.

	S.89°49'E., on a random line bet. secs. 10 and 15.
7.98	West brink of Buckskin gulch and top of ledges, across which I cannot chain, therefore triangulate as follows. Set a flag on line on east brink and also erect a flag at this point. From flag on E. brink measure a base



chains

line, N.0°11'E., 10.00 chs. distant. to a point whence west flag bears S.60°42'W.; therefore, tan 60°31' x base or 1.76869 x 10.00 gives 17.69 chs. which added to 7.98 chs. makes

25.67 To E. brink of Buckskin gulch.

40.00 Set temp. ¼ sec. cor.

79.80 Intersect N. and S. line 12 lks. S. of the cor. of secs. 10,11,14 and 15.

Thence

N.89°54'W., on true line bet. secs. 10 and 15.

Over broken mountainous land through scattering scrub cedar and pinon timber and sagebrush undergrowth. Gradually ascend.

8.15 East edge of rocky gulch, bears N.70°W. and S.70°E., 50 ft. above sec. cor.; descend.

9.55 Bottom of gulch, 35 ft. deep, course S.70°E.; ascend.

12.50 West edge of same gulch, 150 ft. above bottom, bears N.70°W. and S.70°E. A water pocket in gulch bears southeasterly about 8 chs.; descend 50 ft. to

15.55 Bottom of same gulch, course at bend from the NW. to NE. Ascend.

24.60 Ridge, 75 ft. above gulch, bears N.20°W. and S.; descend

36.10 East brink of gulch, bears N.10°W. and S.; descend abruptly.

38.00 Bottom of gulch, 75 ft. below brink, course S.; ascend.

39.90 On steep E. slope in gulch.

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

$$\frac{1}{4}\ \frac{S\ 10}{S\ 15}$$
1917

No suitable trees are available and additional mound of stone not built on account of scarcity of stone.

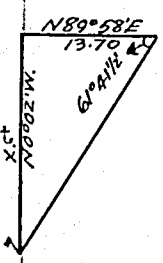
Continue ascent.

41.10 West brink of gulch, 50 ft. above ¼ sec. cor., bears NW. and S.; thence over broken mountain top.

Subdivision of T.43 S.,R.2 W.

chains	
54.13	Outer east brink of Buckskin gulch and top of ledges from 50 to 75 ft. high, bears N.30°W. and SE. Point for triangulation.
63.00	Approximate bottom of Buckskin gulch and wash, 75 lks. wide, 4 ft. deep, course SE.
71.82	West brink of Buckskin gulch and top of ledges, bears NW. and SE. Point of triangulation. Thence over rolling bench.
79.80	The cor. of secs. 9,10,15 and 16.
	Land, rough mountainous; general S. exposure and drainage.
	Soil, shallow brown loam, gravelly and rocky of sandstone and limestone formation; on hard, dry clay and rocky sub-soil.
	Timber, scattering scrub cedar and pinon.
	Undergrowth, sagebrush. Fair grazing.

	N.0°02'W., bet. secs. 9 and 10.
	Over rough mountainous land through scrub cedar and pinon timber and sagebrush undergrowth.
1.00	South brink of Buckskin gulch and top of ledges from 50 to 75 ft. high over which I cannot chain, I therefore triangulate as follows:
	I set a flag on line on N. brink of gulch and also erect a flag at cor. of secs. 9,10,15 and 16. From N. flag measure a base line N.89°58'E., 13.70 chs. to a point where the angle bet. the N. and S. points of triangulation is 61°41½', therefore tan. 61°41½' x base or 1.85655 x 13.70 chs. makes
25.43	To point of triangulation on top of ledges on N. rim of Buckskin gulch, bears N.70°W. and S.80°E.
	Note: The bottom of Buckskin gulch, course SE. is at about 12.50 chs. and is approximately 800 ft. deep.
	Thence over rough, rocky, broken mountain top.
27.90	South brink of small canyon, bears NW. and SE.; descend.
30.85	Bottom of canyon, 50 ft. deep, course SE.; ascend.
34.00	N. brink of canyon, bears NW. and SE.



Subdivision of T.43 S.,R.2 W.

chains	
40.00	On gentle SE. slope.
	Set an iron post, 3 ft. long, 1 in. in dia., 10 ins. in the ground on solid rock and 16 ins. in a mound of stone for ¼ sec. cor., with brass cap marked
	¼ S9 | S10 1917
	from which
	A cedar, 8 ins.diam.,bears N.47½°E., 84 lks. dist.,marked ¼ S 10 B T
	A cedar, 6 ins.diam.,bears N.67°W., 46 lks. dist.,marked ¼ S 9 B T
51.20	Sputh brink of canyon, bears N.30°W. and S.30°E.; desc.
58.80	Bottom of canyon, 75 ft. below brink, course S.30°E. Ascend.
63.10	N. brink of canyon, bears NW. and SE.; 35 ft. above bottom.; gradually ascend.
76.30	Top of ascent and brink of gulch, 95 ft. above top of canyon, bears NE. and SE.; descend 55 ft. to
80.00	On NE. slope.
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a large mound of stone on solid rock for cor. of secs. 3,4,9 and 10, with brass cap marked
	T43S | R2W S4 | S3 S9 | S10 1917
	from which
	A cedar, 10 ins.diam.,bears N.87°E., 98 lks. dist.,marked T 43 S R 2 W S 3 B T
	No tree available in sec. 10.
	A cedar, 6 ins.diam.,bears S.31°W., 47 lks. dist.,marked T 43 S R 2 W S 9 B T
	A cedar, 8 ins.diam., bears N.83°W., 158 lks. dist.,marked T 43 S R 2 W S 4 B T
	Additional mound of stone at cor, not built on account of scarcity of rock.

chains	
	Land, rough mountains and broken bench land, general S. exposure and drainage.
	Soil, shallow brown loam, gravelly and rocky of limestone formation, on gravelly and rocky sub-soil.
	Timber, scrub cedar and pinon.
	Undergrowth, sagebrush and juniper. Fair grazing.

	S.89°54'E., on a random line bet. secs. 3 and 10.
40.00	Set temp. ¼ sec. cor.
79.72	Intersect the cor. of secs. 2,3,10 and 11.
	Thence
	N.89°54'W., on true line bet. secs. 3 and 10.
	Over broken top of Buckskin mountain, through scrub cedar and pinon timber and sagebrush and juniper undergrowth. Descend.
7.35	Gulch, 85 ft. below sec. cor., course SE.; ascend.
13.30	Top of ascent, 65 ft. above gulch, bears NW. and SE.; thence over broken ground.
23.75	Begin descent into gulch, bears N. and S.
25.75	East brink of same gulch, bears N. and S.; descend abruptly.
33.45	Bottom of gulch, 155 ft. below top of ascent, course SE. Ascend abruptly.
39.86	On steep NE. slope 85 ft. above bottom of gulch. 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 10 / 1917

from which

A pinon, 5 ins.diam., bears S.14°E., 105 lks. dist., marked ¼ S 10 B T

A cedar, 5 ins.diam., bears N.53½°W., 19 lks. dist., marked ¼ S 3 B T

43.25	Top of ascent and west brink of gulch, 80 ft. above ¼ sec. cor., bears N.30°W. and S.30°E.; descend.
56.40	Gulch, 115 ft. below top of ascent, course SE.; ascend.
64.80	Top of ascent and west brink of gulch, 100 ft. above

chains	
	gulch, bears NW. and SE.
66.75	Begin descent into gulch, bears NW. and SE.
76.00	Bottom of gulch, 75 ft. below top, course SE.; ascend 80 ft. to
79.72	The cor. of secs. 3,4,9 and 10.
	Land, rough, broken mountain top; general S. exposure and drainage.
	Soil, shallow brown loam, gravelly and rocky of limeston formation, on gravelly and rocky sub-soil.
	Timber, scrub cedar and pinon.
	Undergrowth, sagebrush and juniper. Fair grazing.

	N.0°02'W., on true line bet. secs. 3 and 4.
	Over broken top of Buckskin mountain, through scrub ceda and pinon timber and sagebrush and juniper undergrowth Descend over NE. slope.
3.80	Gulch, 75 ft. below cor., course SE.; abrupt ascent.
12.30	Top of steep ascent and edge of gulch, 185 ft. above bottom, bears NW. and SE.; gradually ascend.
33.65	Head of small gulch, drains SW. about 10 chs. to junctio with large gulch.
40.00	On gentle W. slope.
	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 S4 | S3 1917
	from which
	A cedar, 8 ins.diam.,bears N.49½°E., 27 lks. dist.,marked ¼ S 3 B T
	A cedar, 16 ins.diam.,bears S.65°W., 49 lks. dist.,marked ¼ S 4 B T
52.40	Head of ravine, general course SE.
78.59	On gentle NW. slope, 40 ft. above ¼ sec. cor.
	Intersect N. bdy. of the tp. 1.93 chs. S.89°55'W. of the cor. of secs. 33 and 34, S. bdy. of T. 42 S.,R.2 W

chains	
	At intersection,
	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 closing cor. of secs. 3 and 4, with brass cap marked
	T42SR2W S33 S4 | S3 T43S CC 1917
	from which
	A cedar, 10 ins.diam., bears S.27½°E., 101 lks. dist., marked C C T 43 S R 2 W S 3 B T
	A cedar, 9 ins.diam., bears S.14½°W., 84 lks. dist., marked C C T 43 S R 2 W S 4 B T
	Land, broken mountain top, general SE. exposure and drainage.
	Soil, shallow brown loam, gravelly and rocky of limestone formation, on gravelly and rocky sub-soil.
	Timber, scrub cedar and pinon.
	Undergrowth, sagebrush and juniper. Fair grazing.

	From the cor. of secs. 4,5,32 and 33 on the S. bdy. of the tp.
	N.0°03'W., bet. secs. 32 and 33.
	Over mountainous land through scattering cedar and pinon timber and undergrowth of sagebrush. Along broken E. slope of Buckskin mountain.
2.50	Low spur, projects SE.; descend.
18.30	Gulch, 40 ft. below spur, course E.; ascend.
23.40	Spur, 45 ft. above gulch, projects E.; descend.
26.00	Rocky gulch, 75 ft. below spur, course E.; ascend.
30.10	Spur, 115 ft. above gulch, projects E.; descend.
32.70	Rocky gulch, course S.80°E.; ascend abruptly over ledges and boulders.
40.00	Spur, 165 ft. above gulch, projects SE.
	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.

chains	
	with brass cap marked
	S32 | S33 1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. No suitable trees are available.
	Thence along rocky E. slope.
45.70	Spur, projects N.70°E.; descend abruptly ledgy N. slope.
50.30	Gulch, 100 ft. below spur, course E.; ascend abruptly.
53.20	Spur, 75 ft. above gulch, projects E.; descend abruptly.
56.85	Rocky gulch, 65 ft. below spur, course E.; ascend abruptly over small ledges.
65.25	High ridge spur, 260 ft. above gulch, projects E.; descend abruptly.
70.30	Rocky gulch, 135 ft. below spur, course E.; ascend abruptly over ledges.
77.80	Top of steep ascent, 240 ft. above gulch, bears E. and W.; gradually ascend along E. slope 15 ft. to
80.00	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 cor. of secs. 28,29,32 and 33, with brass cap marked
	T43S | R2W S29 | S28 S32 | S33 1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	No suitable trees available.
	Land, rough, broken mountainous; general E. exposure and drainage.
	Soil, rocky and loose shales of limestone formation; on hard, dry clay and rocky sub-soil.
	Timber, scattering scrub cedar and pinon.
	Undergrowth, sagebrush, juniper and greasewood. Fair grazing.

chains	
	East, on a random line bet. secs. 28 and 33.
40.00	Set temp. ¼ sec. cor.
79.97	Intersect N. and S. line 14 lks. S. of the cor. of secs. 27,28,33 and 34.
	Thence
	S.89°54'W., on true line bet. secs. 28 and 33.
	Over rough mountainous land through scattering cedar and pinon timber and undergrowth of sagebrush and greasewood. Ascend over low point, thence descend.
-2.00-	Shallow draw, course SE.; ascend through deep sand and sandstone outcroppings.
17.30	Sandstone ridge, 125 ft. above draw, bears NE. and S.10°E. Descend abruptly over red sandstone ledges.
25.50	Gulch, 225 ft. below ridge, course S.; abrupt ascent over ledges.
30.80	Sharp, rocky ridge, 100 ft. above draw, bears N. and S. Descend abruptly over ledges.
36.00	Bottom of draw and foot of Buckskin mountain to the west, 165 ft. below ridge, course S. Formation changes from red sandstone to red clay and limestone. Ascend 20 ft. to
39.98½	On small flat or bench.
	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 S 28 / S 33 / 1917
	from which
	A cedar, 10 ins. diam., bears N.35½°E., 128 lks. dist., marked ¼ S 28 B T
	A cedar, 20 ins. diam., bears S.78¾°E., 161 lks. dist., marked ¼ S 33 B T
41.05	Road, Pahreah to Lee's Ferry, bears N. and S.
48.20	Rocky wash, 30 lks. wide, 10 ft. deep, at foot of steep ascent of E. slope of mountain, course SE.
79.97	The cor. of secs. 28,29,32 and 33, 500 ft. above ¼ sec. cor.

Subdivision of T. 43 S., R. 2 W.

chains	
	Land, rough mountainous with general broken E. and W. slopes of ridges and spurs into draws draining S.
	Soil, E. ½ mile, deep, loose, red sand and sandstone rock, sub-soil same; W. ½ mile, shallow brown sandy clay loam, gravelly and rocky of limestone formation, on rocky sub-soil.
	Timber, scrub cedar and pinon.
	Undergrowth, sagebrush, greasewood and juniper. Fair grazing.

	N.0°03'W., bet. secs. 28 and 29.
	Over rough mountainous land along general E. slope of Buckskin mountain, through scattering scrub cedar and pinon timber and undergrowth of sagebrush and juniper.
5.50	Descend abruptly, bears E. and W.
7.90	Gulch, 65 ft. below cor., course E.; ascend.
11.70	Spur, 65 ft. above gulch, projects E.; descend.
17.00	Gulch, 100 ft. below spur, course E.; ascend.
29.30	Spur, 175 ft. above gulch, projects E.; descend.
34.40	Narrow gulch, 135 ft. below spur, course E.; ascend.
38.70	Top of steep ascent, bears E. and W.; gradually ascend.
40.00	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 S29 | S28 1917
	from which
	A cedar, 18 ins. diam., bears S.42½°E., 119 lks. dist., marked ¼ S 28 B T
	A cedar, 12 ins. diam., bears N.53°W., 38 lks. dist., marked ¼ S 29 B T
44.30	Spur, 125 ft. above gulch, projects E.; descend abruptly.
46.15	Gulch, course E.; ascend.
51.40	Spur, 50 ft. above draw and level with spur at 44.30 chs. projects E.; descend abruptly.

Subdivision of T. 43 S., R. 2 W.

chains	
54.55	Box gulch, 125 ft. below spur, course E.; asc. abruptly.
58.60	Spur, 175 ft. above gulch, projects E.; descend.
65.75	Small gulch, 25 ft. below spur, course E.; ascend.
69.60	Spur, 25 ft. above gulch, projects E.; descend.
71.20	Small gulch, 35 ft. below spur, course E.; ascend.
73.00	Spur, 35 ft. above gulch, projects E.; descend.
73.50	Small draw, drains E.; ascend.
78.00	Flat spur, 10 ft. above draw, projects E.; descend.
80.00	On gentle E. slope.

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 cor. of secs. 20,21,28 and 29, with brass cap marked

T43S	R2W
S20	S21
S29	S28

1917

from which

A cedar, 8 ins.diam.,bears N.35°W., 48 lks. dist.,marked T 43 S R 2 W S 20 B T

No other trees available.

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

Land, rough, broken E. break of Buckskin mountain; general E. exposure and drainage.

Soil, gravelly and rocky of limestone formation, on gravelly and rocky sub-soil.

Timber, scrub cedar and pinon.

Undergrowth, sagebrush and juniper. Fair grazing.

N.89°54'E., on a random line bet. secs. 21 and 28.

40.00	Set temp. ¼ sec. cor.
79.82	Intersect N. and S. line 2 lks. N. of the cor. of secs. 21,22,27 and 28.

Thence

S.89°55'W., on true line bet. secs. 21 and 28.

Subdivision of T. 43 S.;R.2 W.

chains	
	Over rough mountainous land through scrub cedar and pinon timber and undergrowth of sagebrush. Ascend abruptly.
6.10	Top of high ridge, 100 ft. above sec. cor., bears N. and S.; descend over broken W. slope.
22.55	Base of mountain and draw, 220 ft. below ridge, course N.20°E., base of mountain bears N.20°E. and S.20°W. Ascend very gradually.
25.95	Road, Fahreah to Lee's Ferry, bears N.20°E. and S.20°W.
39.91	55 ft. above road.
	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 / 1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	No suitable trees are available.
41.45	Low spur, 35 ft. above ¼ sec. cor., projects NE.; desc.
49.40	Small wash, drains NE.; gradually ascend.
52.60	Base of Buckskin mountain, bears N. and S; ascend over broken E. slope 425 ft. to
79.82	The cor. of secs. 20,21,28 and 29.
	Land, mountainous, general NE. exposure and drainage.
	Soil, eastern portion, sandy clay loam and rocky of sandstone formation, on hard, dry clay and rocky sub-soil, soil of western portion, shallow brown loam, gravelly and rocky of limestone formation, on gravelly and rocky sub-soil.
	Timber, scrub cedar and pinon.
	Undergrowth, sagebrush and juniper. Fair grazing.

	N.0°03'W., bet. secs. 20 and 21.
	Over rough mountainous land along E. slope of Buckskin mountain, through scattering cedar and pinon timber and sagebrush and juniper undergrowth.
1.10	Descend abruptly/

chains	
4.55	Deep gulch, 150 ft. below cor., course E.; ascend.
12.50	Spur, 115 ft. above gulch, projects E.; descend.
18.00	Small wash, 50 ft. below spur, course E.; thence on near level line.
23.45	Wash, course E.; continue on near level line.
30.40	Spur, projects E.; descend.
35.50	Deep, long, gulch, 75 ft. below spur, course E.; ascend
40.00	On gentle E. slope on top of flat spur, 65 ft. above gulch, projects 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., with brass cap marked
	¼ S20 | S21 1917
	from which
	A cedar, 12 ins.diam., bears S.83°W., 112 lks. dist., marked ¼ S.20 B T
	A cedar, 8 ins.diam., bears N.27½°E., 81 lks. dist., marked ¼ S 21 B T
	Descend.
52.00	Deep gulch, 90 ft. below ¼ sec. cor., course E.; ascend.
64.00	Top of ascent, 75 ft. above gulch, bears E. and W.; desc.
65.50	S. brink of gulch, bears N.20°E. and SW.
69.20	Bottom of gulch at junction of gulches from the W. and SW., 135 ft. below top of ascent, general course NE.
	Ascend 120 ft. to
80.00	On E. point of spur, projects E.
	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 cor. of secs. 16,17,20 and 21, with brass cap marked
	T43S | R2W S17 | S16 S20 | S21 1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of

Subdivision of T.43 S., R.2 W.

chains	
	cor.
	No suitable trees available.
	Land, rough mountainous, general E. exposure and drainage. East break of Buckskin mountain.
	Soil, gravelly and rocky of limestone formation on rocky sub-soil.
	Timber, scrub cedar and pinon.
	Undergrowth, sagebrush and juniper. Fair grazing.

	N.89°55'E., on a random line bet. secs. 16 and 21.
40.00	Set temp. ¼ sec. cor.
79.74	Intersect N. and S. line 7 lks. N. of the cor. of secs. 15,16,21 and 22,
	Thence
	S.89°58'W., on true line bet. secs. 16 and 21.
	Over broken mountainous bench lands through scattering scrub cedar and pinon timber and sagebrush undergrowth.
	Descend.
6.10	Wash, 25 lks. wide, 10 ft. deep, 20 ft. below cor., course NE.
16.10	Main wash, 50 lks. wide, 5 ft. deep, in gulch, course NE.
27.00	Main wash, in gulch, course at bend from S.80°W. to S.80°E. Ascend along broken S. slope of gulch.
39.87	On S. slope, 100 ft. above wash.
	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 16 / S 21 1917
	from which
	A cedar, 7 ins. diam., bears N.74°W., 21 lks. dist., marked ¼ S 16 B T
	No other suitable trees available.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Continue ascent.
51.00	Rim of gulch, 100 ft. above ¼ sec. cor., bears NW. and SE

chains	
	Descend.
54.50	Base of descent on N. edge of bottom of gulch, 50 ft. below rim.; ascend.
69.12	Rim of gulch, 80 ft. above base of descent, bears NW. and SE. Continue to ascend.
77.00	Small gulch, drains SE.
79.74	The cor. of secs. 16,17,20 and 21, 250 ft. above rim of gulch at 69.12 chs.
	Land, rough, broken, mountainous bench lands, general SE. exposure and drainage.
	Soil, shallow brown loam, gravelly and rocky of limestone formation, on hard, dry, clay and rocky sub-soil.
	Timber, scrub cedar and pinon.
	Undergrowth, sagebrush and juniper. Fair grazing.

	N.0°03'W., bet. secs. 16 and 17.
	Over rough, broken bench lands through scrub cedar and pinon timber and sagebrush and juniper undergrowth. Descend.
1.65	Small gulch, 25 ft. below cor., course SE.
29.35	Small gully, 20 ft. deep, course E.
40.00	On N. slope and S. edge of small draw, draining E. Set an iron post, 3 ft. long, 1 in. in dia., 10 ins. in the ground on solid rock and 16 ins. in a mound of stone for ¼ sec. cor., with brass cap marked
	¼ S17 | S16 1917
	from which
	A cedar, 8 ins.diam.,bears S.10½°E., 104 lks. dist.,marked ¼ S 16 B T
	A cedar, 10 ins.diam.,bears S.31°W., 35 lks. dist.,marked ¼ S 17 B T
40.40	Small draw, 15 ft. deep, course E.
45.65	Gully, course E.
61.45	South brink of main gulch, bears E. and W.; descend.

chains	
66.75	Bottom of gulch, 150 ft. below rim, course E.; ascend abruptly.
74.55	N. brink of gulch, 220 ft. above bottom, bears E. and W.
78.00	Top of ascent, bears E. and W.; descend 10 ft. to
80.00	On N. slope.

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. 8,9,16 and 17, with brass cap marked

T43S S8	R2W S9
S17	S16

1917

from which

A cedar, 6 ins.diam.,bears N.1¾°E., 152 lks. dist.,marked T 43 S R 2 W S 9 B T

A cedar, 14 ins.diam.,bears S.13¾°W., 142 lks. dist.,marked T 43 S R 2 W S 17 B T

No other trees available.

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

Land, rough, broken benches; general E. exposure and drainage.

Soil, shallow brown loam, gravelly and rocky of limeston formation, on gravelly and rocky sub-soil.

Timber, scrub cedar and pinon.

Undergrowth, sagebrush and juniper. Fair grazing.

N.89°58'E., on a random line bet. secs. 9 and 16.

40.00	Set temp. ¼ sec. cor.
79.80	Intersect N. and S. line 5 lks. N. of the cor. of secs. 9,10,15 and 16.

Thence

West, on true line bet. secs. 9 and 16.

Over rough, broken bench lands through scrub cedar and pinon timber and sagebrush and juniper undergrowth.

Along top of S. brink of Buckskin gulch.

chains	
6.80	E. brink of box gulch at point where same falls over ledge into Buckskin gulch, bears N.50 lks. thence E. and SW.
11.40	West brink of same gulch, bears N. and SW.
14.50	Top of ledge and south brink of Buckskin gulch, bears N.85°W. and SE.
22.80	East point of spur from N.80°W., spur widens out to the NW.
39.90	On S. slope, 2½ chs. N. of a gulch. 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 9 / S 16 / 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	No suitable trees available.
45.70	Gulch, drains S.80°E., 40 ft. below ¼ sec. cor.; gradually ascend.
77.50	Top of ascent, 175 ft. above gulch, thence on near level line.
79.80	The cor. of secs. 8,9,16 and 17.
	Land, broken bench, general E. exposure and drainage.
	Soil, shallow brown loam, gravelly and rocky of limestone formation; on gravelly and rocky sub-soil.
	Timber, scrub cedar and pinon.
	Undergrowth, sagebrush and juniper. Fair grazing.

	N.0°03'W., bet. secs. 8 and 9.
	Over broken mountainous bench land through scattering scrub cedar and pinon timber and undergrowth of sagebrush and juniper.
	Descend over N. slope.
4.40	Gully, 65 ft. below cor., course E.; ascend.
10.50	Ridge, 50 ft. above gully, bears NE. and SW.; descend.

chains	
17;95	Gully, 45 ft. below ridge, course E. for about 5 chs., thence SE.; ascend.
30.35	Flat ridge, 55 ft. above gully, bears E. and W.; gradually descend.
36.63	Point for ¼ sec. cor. will fall on ledge on brink of break of Buckskin gulch where it is impossible to set cor., therefore at this point on S. rim of Buckskin gulch, bears NW. and SE.,
	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., with brass cap marked

W C
¼
S8 | S9
1917

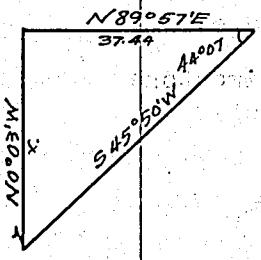
from which

A cedar, 7 ins.diam.,bears N.37°W., 57 lks. dist.,marked W C ¼ S 8 B T

No other trees available.

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

It being impossible to chain across Buckskin gulch, I triangulate as follows:



Set a flag on line on N. brink and also erect a flag at this point, then, from N. flag measure a base N.89°57' 37.44 chs. to a point whence S. flag bears S. 45°50'W. therefore tan. 44°07' x base or.96963 x 37.44 chs. makes 36.30 chs. which added to 36.63 chs. gives

72.93	To point of triangulation on N. brink of Buckskin gulch.
	The approximate topography from the 36.63 chs. point is.
	Descend abruptly over ledges 50 to 75 ft. high into gulc
40.00	Point for ¼ sec. cor. on ledge, no cor. set.
54.80	Bottom of gulch and wash, 50 lks. wide, 10 ft. deep, 80 ft. below witness ¼ sec. cor., course SE.; abrupt asce over ledges.
72.93	Top of ledges and N. brink of canyon, bears NW. and SE.

chains	
	Thence over broken bench.
80.00	On N. slope, 43 lks. S. of gulch; under rim rock 8 ft. high, bears E. and W.
	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 cor. of secs. 4,5,8 and 9, with brass cap marked

T43S	R2W
S5	S4
S8	S9

1917

from which

A pinon, 14 ins.diam.,bears N.8°E., 239 lks. dist.,marked T 43 S R 2 W S 4 B T

A pinon, 12 ins.diam.,bears S.33°E., 48 lks. dist.,marked T 43 S R 2 W S 9 B T

A pinon, 10 ins.diam.,bears S.52¼°W., 29 lks. dist.,marked T 43 S R 2 W S 8 B T

A pinon, 8 ins.diam.,bears N.48°W., 78 lks. dist.,marked T 43 S R 2 W S 5 B T

Land, rough, broken mountains and bench lands, general SE. exposure and drainage.

Soil, shallow brown loam, gravelly and rocky of limestone formation, on gravelly and rocky sub-soil.

Timber, scrub cedar and pinon.

Undergrowth, sagebrush and juniper. Fair grazing on N. and S. parts of mile.

	East, on a random line bet. secs. 4 and 9.
40.00	Set temp. ¼ sec. cor.
79.84	Intersect N. and S. line 5 lks. S. of the cor. of secs. 3,4,9 and 10,
	Thence
	S.89°58'W., on true line bet. secs. 4 and 9.
	Over rough broken top of Buckskin mountain, through cedar and pinon timber and sagebrush and juniper undergrowth. Ascend NE. slope of gulch.

Subdivision of T.43 S.,R.2 W.

chains	
10.50	Top of ridge and west brink of gulch, 85 ft. above cor., bears N. and S.; descend.
13.75	Gully, near head, 35 ft. below ridge, course S.; ascend.
17.80	Low ridge, bears N. and S.; descend.
21.25	Gully, 30 ft. below ridge, course S.; ascend.
25.75	Ridge, 15 ft. above gully, bears N. and S.; descend.
38.00	Gully, 60 ft. below ridge, course S.; ascend 10 ft. to
39.92	On E. slope of 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., with brass cap marked
	¼ S 4 / S 9 / 1917
	from which
	A pinon, 8 ins.diam.,bears N.72°E., 69 lks. dist.,marked ¼ S 4 B T
	A cedar, 10 ins.diam., bears S.33½°E., 105 lks. dist., marked ¼ S 9 B T
53.10	Small gully, course SW.
68.65	Gully, 150 ft. below ½ sec. cor., course NW.; thence along broken N. slope.
79.84	The cor. of secs. 4,5,8 and 9.
	Land, rough, broken mountain top, general S. exposure and drainage.
	Soil, shallow brown sandy loam, gravelly and rocky of limestone formation; on hard, dry clay and rocky subsoil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush and juniper. Fair grazing.

	N.0°03'W., on true line bet. secs. 4 and 5.
	Over rough, broken mountain top, through cedar and pinon timber and sagebrush and juniper undergrowth. Descend.
.45	Gulch, 15 ft. below cor., course N.80°W. for 5 chs., thence SW.; ascend steep SW. slope.

N.0°03'W.

chains	
7.85	Top of ascent, 90 ft. above gulch, bears N.80°E. and S.70°W.; gently descend along NW. slope.
24.60	Gully, 50 ft. below top of ascent, course SW.; ascend.
40.00	On gentle NW. slope 50 ft. above gully.
	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 S5 | S4 1917
	from which
	A pinon, 7 ins.diam., bears N.16°E., 152 lks. dist., marked ¼ S 4 B T
	A cedar, 8 ins.diam., bears S.3°W., 132 lks. dist., marked ¼ S 5 B T
40.50	Begin descent over NW. slope to ravine.
45.65	Ravine, 40 ft. below ¼ sec. cor., course SW.; ascend over S. slope.
52.00	Top of ascent, 55 ft. above ravine, bears N.70°E. and S.70°W.; thence over gently rolling land.
78.54	Intersect N. bdy. of the tp., 2.39 chs. S.89°55'W. of the cor. of secs. 32 and 33, S. bdy. T.42 S., R.2 W.
	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
	T42SR2W S32 S5 | S4 T43S CC 1917
	from which
	A cedar, 6 ins.diam., bears S.36½°E., 48 lks. dist., marked C C T 43 S R 2 W S 4 B T
	A cedar, 18 ins.diam., bears S.58½°W., 186 lks. dist., marked C C T43 S R 2 W S 5 B T

Subdivision of T.45 S.,R.2 W.

chains	
	Land, rolling and broken mountain top, general S. exposur and drainage.
	Soil, shallow brown loam, gravelly and rocky of limestone formation; on gravelly and rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush and juniper. Fair grazing.

	From the cor. of secs. 5,6,31 and 32 on the S. bdy. of the tp.,
	N.0°03'W., bet. secs. 31 and 32.
	Over broken mountain top, general E. slope of Buckskin mountain, through scattering scrub cedar and pinon timber and undergrowth of sagebrush and juniper. Ascend.
2.10	Rocky point, 25 ft. above sec. cor., projects E.; descend abruptly.
7.50	Gulch, 110 ft. below point, course E.; ascend abruptly.
13.25	Spur, 95 ft. above gulch, projects E.; descend abruptly.
17.00	Gulch, 90 ft. below spur, course NE.; ascend.
18.10	Low point, 25 ft. above gulch, projects E. Line strikes base of a small limestone ledge, bears N. and S.; desc
21.00	Draw, 25 ft. below point, course SE.; abrupt ascent.
37.00	Spur, 150 ft. above draw, projects N.70°E.; descend.
40.00	On NW. slope 20 ft. below spur.
	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

331 | 332

1917

from which

A pinon, 10 ins.diam.,bears N.84¾°E., 127 lks. dist.,marked ¼ S 32 B T

A pinon, 8 ins.diam.,bears S.56¼°W., 332 lks. dist.,marked ¼ S 31 B T

Descend along nearly W. slope.

Subdivision of T.43 S.,R.2 W.

chains	
51.50	Draw, 90 ft. below ¼ sec. cor., course NE. about 5 chs. thence E.; ascend.
54.90	Low point, projects E. about 2 chs.; descend.
56.55	Draw, 20 ft. below point, course SE.; ascend abruptly.
63.75	Top of steep ascent, 100 ft. above draw, bears E. and W.; thence over rolling mountain top, gradually ascending.
77.10	Spur, 25 ft. above top of ascent, projects E.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a mound of stone for cor. of secs. 29,30,31 and 32, with brass cap marked

T43S S30	R2W S29
S31	S32

1917

from which

A pinon, 10 ins.diam.,bears N.7½°E., 109 lks. dist.,marked T 43 S R 2 W S 29 B T

A cedar, 8 ins.diam.,bears S.70°E., 88 lks. dist.,marked T 43 S R 2 W S 32 B T

A pinon, 8 ins.diam.,bears S.69¾°W., 157 lks. dist.,marked T 43 S R 2 W S 31 B T

A pinon, 9 ins.diam.,bears N.58¾°W., 189 lks. dist.,marked T 43 S R 2 W S 30 B T

Note: Underlying rock prevents setting post in ground.

Land, rough, broken, mountain top, general E. exposure and drainage.

Soil, gravelly and rocky of limestone formation, on gravelly and rocky sub-soil.

Timber, cedar and pinon.

Undergrowth, sagebrush and juniper. Fair grazing.

East, on a random line bet. secs. 29 and 32.

40.00	Set temp. ¼ sec. cor.
79.82	Intersect N. and S. line, 9 lks. N. of the cor. of secs. 28,29,32 and 33.

Thence

N.89°56'W., on true line bet. secs. 29 and 32.

chains	
	Over mountainous land through scattering scrub cedar and pinon timber and undergrowth of sagebrush and junip Ascend E. slope of Buckskin mountain.
39.30	Spur, 325 ft. above sec. cor., projects S.80°E.
39.91	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 29 / S 32 / 1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	No suitable trees are available.
41.20	Begin abrupt descent into gulch, bears NW. and SE.
47.50	Gulch, 50 ft. below spur, course S.80°E.; ascend.
57.40	Point, 130 ft. above gulch, projects N.; descend.
60.35	Same gulch, 45 ft. below point, course N.80°E.; ascend.
77.80	Spur, 140 ft. above gulch, projects N.70°E. This is the same spur as at 39.30 chs.
79.82	The cor. of secs. 29, 30,31 and 32.
	Land, rough mountainous, general E.exposure and drainage.
	Soil, rocky, of limestone formation, on rocky sub-soil.
	Timber, scrub cedar and pinon.
	Undergrowth, sagebrush and juniper. Fair grazing.

	West, on a random line bet. secs. 30 and 31.
40.00	Set temp. ¼ sec. cor.
76.96	Intersect W. bdy. of the tp. 2 lks. S. of the cor. of secs. 25,30,31 and 36 heretofore described.
	Thence
	S.89°59'E., on true line bet. secs. 30 and 31.
	Over rolling and broken mountain top through dense cedar and pinon timber and undergrowth of sagebrush and juniper.
20.55	Small gully, about 35 ft. deep, course N.
36.96	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

Subdivision of T. 43 S., R. 2 W.

chains	
	$\frac{1}{4}$ $\frac{S\ 30}{S\ 31}$ 1917
	from which
	A pinon, 8 ins.diam., bears N.13°E., 24 lks. dist., marked $\frac{1}{4}$ S 30 B T
	A pinon, 10 ins.diam., bears S.9½°W., 56 lks. dist., marked $\frac{1}{4}$ S 31 B T
38.95	Ridge, bears NE. and SW.; descend over E. slope.
46.30	Main gulch, 75 ft. below ridge, course NE. for about 5 chs. thence E.; ascend along broken N. slope of gulch through dense timber.
54.25	Small gulch, drains N.
57.45	Small gulch, drains N.
64.95	Small gulch, drains N.
73.25	Top of brink of gulch, 50 ft. above main gulch, bears NE. and S.80°W.
76.96	The cor. of secs. 29,30,31 and 32.
	Land, rolling and broken mountain top, general NE. exposure and drainage.
	Soil, shallow brown loam, gravelly and rocky of limestone formation, on gravelly and rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush and juniper. Fair grazing.

	N.0°03'W., bet. secs. 29 and 30.
	Over rolling and broken top of Buckskin mountain, through cedar and pinon timber and undergrowth of juniper and sagebrush.
2.00	Brink of gulch, bears N.80°E. and S.80°W.; descend abruptly.
8.40	Bottom of rocky gulch, 130 ft. below sec. cor., course E.; ascend steep S. slope.
17.10	Ridge spur, 110 ft. above gulch, projects E.; gradually descend over NE. slope.
22.75	Ravine, 60 ft. below spur, course S.80°E.; ascend.
32.30	Flat top spur, 35 ft. above ravine, bears N.70°W. and S.70°E.; descend.

Subdivision of T.43 S.,R.2 W.

chains	
36.55	Gully, 20 ft. below flat top, course S.70°E.; ascend.
40.00	On top of low, flat spur, projects S.70°E.
	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
	½ S30 | S29 1917
	from which
	A cedar, 6 ins.diam.,bears S.81½°E., 18 lks. dist.,marked ¼ S 29 B T
	A cedar, 8 ins.diam.,bears N.81½°W., 20 lks. dist.,marked ¼ S 30 B T
42.00	Head of swale, 10 ft. deep, course S.80°E.; thence along rolling top sloping to the NE.
80.00	On gentle N. slope.
	Set an iron post, 3 ft. long, 2 ins. in dia., 6 ins. in the ground on solid rock and 18 ins. in a large mound of stone for cor. of secs. 19,20,29 and 30, with brass cap marked
	T43S | R2W S19 | S20 S30 | S29 1917
	from which
	A cedar, 18 ins. diam.,bears N.27½°E., 267 lks. dist.,marked T 43 S R 2 W S 20 B T
	A pinon, 6 ins.diam.,bears S.13°E., 90 lks. dist.,marked T 43 S R 2 W S 29 B T
	No tree available in sec. 30.
	A cedar, 6 ins.diam.,bears N.46°W., 139 lks. dist.,marked T 43 S R 2 W S 19 B T
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, rolling and broken mountain top, general E. exposu and drainage.

chains	
	Soil, shallow red and brown loams, gravelly and rocky of limestone formation, on rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush and juniper. Fair grazing.
	S.89°56'E., on a random line bet. secs. 20 and 29.
40.00	Set temp. ¼ sec. cor.
79.72	Intersect N. and S. line 32 lks. S. of the cor. of secs. 20,21,28 and 29.
	Thence
	S.89°50'W., on true line bet. secs. 20 and 29.
	Over rough broken mountainous land on E. slope of Buckskin mountain, through scrub cedar and pinon timber and undergrowth of sagebrush and juniper. Gradually ascend gentle NE. slope.
5.90	East brink of gulch, 50 ft. above cor., bears N.20°E. and SW.; descend abruptly W. slope.
10.40	Bottom of deep, rocky gulch, 100 ft. below brink, course from S.70°W. to NE.; ascend along steep, rocky S. slope on N. side of gulch.
37.70	Rim of gulch, 400 ft. above bottom, bears N.80°E. and SW.; gradually ascend 20 ft. to
39.86	On gentle NE. slope.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in a large mound of stone on solid rock for ¼ sec. cor., with brass cap marked
	¼ S 20 / S 29 / 1917
	from which
	A cedar, 6 ins.diam.,bears S.53½°E., 140 lks. dist.,marked ¼ S 29 B T
	A cedar, 10 ins.diam.,bears N.21°W., 69 lks. dist.,marked ¼ S 20 B T
	Continue gradual ascent.
49.30	Top of ascent on N. slope, 50 ft. above ¼ sec. cor., bears NE. and SW.; descend over NW. slope.

Subdivision of T.43 S.,R.2 W.

chains	
55.90	Gulch, 40 ft. below top of ascent, course NE.; ascend over NE. slope 200 ft. to
79.72	The cor. of secs. 19,20,29 and 30.
	Land, rough mountainous, general E. exposure and drainage.
	Soil, shallow brown loam, gravelly and rocky of limestone formation, on gravelly and rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush and juniper. Fair grazing.
	N.89°59'W., on a random line bet. secs. 19 and 30.
40.00	Set temp. ¼ sec. cor.
77.08	Intersect W. bdy. of the tp. 9 lks. N. of the cor. of secs. 19 and 30 heretofore described.
	Thence
	N.89°57'E., on true line bet. secs. 19 and 30.
	Over rolling and broken top of Buckskin mountain, through cedar and pinon timber and undergrowth of sagebrush and juniper.
19.10	Top of west side of gulch, bears N. and S.; descend over E. slope.
26.70	Bottom of gulch, 155 ft. below sec. cor., course N. for about 10 chs. thence NE.; ascend west slope.
34.30	Top of east brink of gulch, bears N. and S.
37.08	On top of raise bet. gulches, 110 ft. above gulch to W. 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 $\frac{1}{4}\ \frac{S\ 19}{S\ 30}$ 1917 from which A pinon, 10 ins.diam.,bears S.30°E., 40 lks. dist.,marked ¼ S 30 B T A cedar, 7 ins.diam.,bears N.27°W., 51 lks. dist.,marked ¼ S 19 B T
44.85	Small gulch, about 25 ft. deep, course NE.

chains	
53.85	Small draw, near head, course N.
70.40	Ravine, heads S. about 15 chs. and drains N.; ascend over W. slope.
74.10	Top of ascent, 30 ft. above ravine, bears N. and S.; thence along N. slope.
77.08	The cor. of secs. 19,20,29 and 30.
	Land, rolling and broken mountain top, general NE. exposure and drainage.
	Soil, shallow brown loam, gravelly and rocky of limestone formation, on gravelly and rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush and juniper. Fair grazing.

	N.0°03'W., bet. secs. 19 and 20.
	Over broken mountainous land on E. slope of Buckskin mountain, through cedar and pinon timber and undergrowth of sagebrush and juniper. Descend.
22.55	Bottom of deep, rocky gulch, 155 ft. below sec. cor., course NE.; ascend.
32.65	North edge of gulch, 75 ft. above bottom, bears NE. and S.30°W.; thence over broken ground.
35.65	Edge of gulch, bears E. and W.; descend.
40.00	On steep N. slope 25 ft. below edge of gulch. 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 cedar, 4 ins.diam.,bears S.28°E., 23 lks. dist.,marked ¼ S 20 B T

A cedar, 12 ins.diam.,bears S.44°W., 67 lks. dist.,marked ¼ S 19 B T

45.10	Bottom of gulch, 130 ft. below ¼ sec. cor., course S.60°E. ascend.

chains	
57.95	Ridge, 150 ft. above gulch, bears NW. and SE.; descend.
74.20	Ravine, 75 ft. below ridge, course NE.; gradually ascend.
80.00	On E. slope.
	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. 17,18,19 and 20, with brass cap marked

T43S S18	R2W S17
S19	S20

1917

from which

A cedar, 16 ins.diam.,bears N.70°E., 27 lks. dist.,marked T 43 S R 2 W S 17 B T

A cedar, 8 ins.diam.,bears S.24°E., 55 lks. dist.,marked T 43 S R 2 W S 20 B T

A pinon, 10 ins.diam.,bears S.76°W., 121 lks. dist.,marked T 43 S R 2 W S 19 B T

A cedar, 14 ins.diam.,bears N.33¼°W., 116 lks. dist.,marked T 43 S R 2 W S 18 B T

Land, broken mountainous, general E. exposure and drainage.

Soil, shallow brown loam, gravelly and rocky of limestone formation, on gravelly and rocky sub-soil.

Timber, cedar and pinon.

Undergrowth, sagebrush and juniper. Fair grazing.

N.89°50'E., on a random line bet. secs. 17 and 20.

40.00 Set temp. ¼ sec. cor.

79.72 Intersect N. and S. line 9 lks. N. of the cor. of secs. 16,17,20 and 21.

Thence

S.89°54'W., on true line bet. secs. 17 and 20.

Over mountainous land on E. slope of Buckskin mountain, through cedar and pinon timber and undergrowth of sagebrush and juniper. Ascend.

chains	
23.80	Top of ascent, 300 ft. above sec. cor., bears N.10°W. and S.30°E.; descend over W. slope.
32.90	Canyon, 175 ft. below top of ascent, course SE.; ascend over general S. slope on N. side of gulch from the W.
39.86	On S. slope, 160 ft. above canyon.
	Set an iron post, 3 ft. long, 1 in. in dia., 4 ins. in the ground on solid rock and 22 ins. in a mound of stone for ¼ sec. cor., with brass cap marked
	S 17 / ¼ S 20 / 1917
	from which
	A pinon, 10 ins.diam., bears N.70¾°W., 194 lks. dist., marked ¼ S 17 B T
	No other tree available.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
51.85	Top of ascent, 75 ft. above ¼ sec. cor.; descend.
56.75	Canyon, 50 ft. below top of ascent, course S.70°E.; asc.
62.00	Top of ascent, 85 ft. above canyon ; descend.
66.75	Same canyon, 25 ft. below top of ascent, course N.70°E.; ascend 50 ft. to
79.72	The cor. of secs. 17,18,19 and 20.
	Land, rough mountainous, general E. exposure and drainage.
	Soil, shallow brown loam, gravelly and rocky of limestone formation, on hard, dry clay and rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush and juniper. Fair grazing.

	S.89°57'W., on a random line bet. secs. 18 and 19.
40.00	Set temp. ¼ sec. cor.
77.03	Intersect W. bdy. of the tp., 31 lks. S. of the cor. of secs. 18 and 19 heretofore described.
	Thence
	S.89°49'E., on true line bet. secs. 18 and 19.
	Over rolling mountainous land through cedar and pinon timber and undergrowth of sagebrush and juniper.

Subdivision of T.43 S.,R.2 W.

chains	
	Along general N. slope.
17.05	Ravine, near head of same, course N.; gradually ascend.
26.70	Top of ascent, 25 ft. above ravine; thence gradually descend along N. slope.
37.03	On E. slope 150 ft. below top of ascent. 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
	S 18 ¼ S 19 1917
	from which
	A cedar, 8 ins.diam.,bears N.30½°E., 92 lks. dist.,marked ¼ S 18 B T
	A pinon, 12 ins.diam.,bears S.74½°W., 128 lks. dist.,marked ¼ S 19 B T
39.30	Ravine, drains N.30°E.; ascend.
42.25	Top of ascent on N. slope, 40 ft. above ravine; descend.
47.60	Ravine, drains NE.; ascend.
62.05	Top of ascent on N. slope 35 ft. above ravine; descend.
70.00	Ravine, 25 ft. below top of ascent; ascend.
75.55	Top of ascent, 35 ft. above ravine; descend 15 ft. to
77.03	The cor. of secs. 17,18,19 and 20.
	Land, rolling and broken mountain top, general NE. exposure and drainage.
	Soil, shallow brown sandy loam, gravelly and rocky, on rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush and juniper. Fair grazing.

	N.0°03'W., bet. secs. 17 and 18.
	Over rolling and broken mountain top, through cedar and pinon timber and undergrowth of sagebrush and juniper. Descend.
7.75	Ravine, 40 ft. below sec. cor., course NE.; ascend.
10.50	Top of flat ridge, 20 ft. above ravine, bears NE. and SW.
30.90	Small swale, drains E.

Chains

60.00 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
S18 | S17
1917

from which

A cedar, 8 ins.diam., bears S.25°E., 46 lks. dist., marked ¼ S 17 B T

A cedar, 10 ins.diam., bears S.72½°W., 36 lks. dist., marked ¼ S 18 B T

42.50 Top of ascent, bears E. and W.; descend.

55.40 Ravine, 60 ft. below top of ascent, course NE.

61.00 Shallow ravine, course NE.

68.00 Shallow ravine, course E.

75.90 Top of flat ridge, bears E. and W.

80.00 On gentle E. slope

Set an iron post, 3 ft. long, 2 ins. in dia., 4 ins. in the ground on solid rock and 20 ins. in a mound of stone for cor. of secs. 7,8,17 and 18, with brass cap marked

T43S | R2W
S7 | S8
S18 | S17
1917

from which

A cedar, 12 ins.diam., bears N.52°E., 160 lks. dist., marked T 43 S R 2 W S 8 B T

A cedar, 6 ins.diam., bears S.38°E., 65 lks. dist., marked T 43 S R 2 W S 17 B T

A cedar, 5 ins.diam., bears S.25½°W., 57 lks. dist., marked T 43 S R 2 W S 18 B T

A cedar, 14 ins.diam., bears N.15°W., 73 lks. dist., marked T 43 S R 2 W S 7 B T

Land rolling and broken mountainous, general E. exposure and drainage.

Subdivision of T.43 S., R.2 W.

chains	
	Soil, shallow brown loam, gravelly and rocky of limestone formation, on gravelly and rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush and juniper. Fair grazing.

	N.89°54'E., on a random line bet. secs. 8 and 17.
40.00	Set temp. ¼ sec. cor.
79.72	Intersect N. and S. line 9 lks. S. of the cor. of secs. 8,9,16 and 17.
	Thence
	S.89°50'W., on true line bet. secs. 8 and 17.
	Over broken mountainous land through scattering patches cedar and pinon timber and undergrowth of sagebrush and juniper. Along general N. slope.
4.00	Thence along S. slope.
17.70	Base of descent on left edge of draw, course at bend from S.70°W. to S.70°E.; ascend.
20.80	Top of ascent from draw; thence on near level line.
28.90	Ridge, bears N. and S. 10 chs. to gulch.; descend.
39.86	On W. slope, 50 ft. below ridge.
	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
	S 8 ¼ S 17 1917
	from which
	A cedar, 6 ins.diam., bears S.41½°E., 67 lks. dist., marked ¼ S 17 B.T.
	A cedar, 14 ins.diam., bears N.62°W., 113 lks. dist., marked ¼ S 8 B.T.
50.10	Bottom of draw, 40 ft. below ¼ sec. cor., course SE. for about 10 chs., thence E.; gradually ascend 100 ft.
79.72	The cor. of secs. 7,8,17 and 18.
	Land, rolling mountainous, general E. exposure and drainage.
	Soil, brown sandy clay loam, gravelly and rocky of limestone formation; on rocky sub-soil.

chains	
	Timber, cedar and pinon.
	Undergrowth, sagebrush and juniper. Fair grazing.
	N.89°49'W., on a random line bet. secs. 7 and 18.
40.00	Set temp. ¼ sec. cor.
76.95	Intersect W. bdy. of the tp. at the cor. of secs. 7 and 18, heretofore described.
	Thence
	S.89°49'E., on true line bet. secs. 7 and 18.
	Over rolling mountainous land through scattering cedar and pinon timber and undergrowth of sagebrush and juniper. Gradually descend.
4.00	Main draw, 25 ft. below cor., course N.; ascend.
18.00	Ridge, 50 ft. above draw, bears N.30°W. and S.30°E.; descend.
21.35	Draw, 30 ft. below ridge, course NW.; ascend.
36.95	On SW. slope 125 ft. above draw.
	Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground on solid rock and 16 ins. in a mound of stone for ¼ sec. cor., with brass cap marked
	¼ S 7 / S 18 / 1917
	from which
	A cedar, 16 ins. diam., bears S.21°E., 79 lks. dist., marked ¼ S 18 B T
	A cedar, 9 ins. diam., bears N.41°W., 6 lks. dist., marked ¼ S 7 B T
65.25	Swale, 40 ft. below ¼ sec. cor., course S.30°E.; ascend.
71.25	Top of ascent, 15 ft. above swale, bears NE. and SW.
	Descend 20 ft. to
76.95	The cor. of secs. 7, 8, 17 and 18.
	Land, rolling and broken mountain top, general N. exposure and E. and NW. drainage.
	Soil, brown sandy loam, gravelly and rocky of limestone formation; on rocky sub-soil.
	Timber, cedar and pinon.

chains	
	Undergrowth, sagebrush and juniper. Fair, grazing.
	N.0°03'W., bet. secs. 7 and 8.
	Over rolling land through scattering cedar and pinon timber and undergrowth of sagebrush and juniper.
	Descend.
6.85	Draw, 40 ft. below cor., course SE.; gradually ascend along gentle E. slope.
22.00	Top of ascent on E. slope, 30 ft. above draw; gradually descend.
40.00	On gentle NE. slope, 55 ft. below top of ascent. 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 S7 | S8 1917 from which A cedar, 10 ins. diam., bears N.16°E., 161 lks. dist., marked ¼ S 8 B T A cedar, 15 ins. diam., bears N.81½°W., 271 lks. dist., marked ¼ S 7 B T
45.25	Leave timber and south edge of draw, bears NW. and SE. Thence across wide open draw draining NW.
63.00	Leave draw and enter timber, bears NW. and SE.; ascend.
72.00	Top of ascent, 75 ft. above draw; thence over rolling top.
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. 5, 6, 7 and 8, with brass cap marked T43S | R2W. S6 | S5 S7 | S8 1917 from which A cedar, 18 ins. diam., bears N.82°E., 178 lks. dist., marked T 43 S R 2 W S 8

chains

A cedar, 5 ins.diam., bears S.24½°E., 185 lks. dist., marked T 43 S R 2 W S 8 B T

A cedar, 6 ins.diam., bears S.53°W., 147 lks. dist., marked T 43 S R 2 W S 7 B T

A cedar, 12 ins.diam., bears N.56¼°W., 164 lks. dist., marked T 43 S R 2 W S 6 B T

Land, rolling mountain top, general N. exposure; drains SE. on southern portion and NW. on northern portion of mile.

Soil, shallow sandy loam, gravelly and rocky of limestone formation, on hard, dry sand and rocky sub-soil.

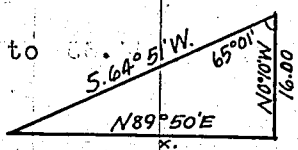
Timber, cedar and pinon.

Undergrowth, sagebrush and juniper. Fair grazing.

N.89°50'E., on a random line bet. secs. 5 and 8.

36.85 From this point the line east crosses Buckskin gulch, across which I cannot chain, therefore triangulate as follows:

Set a point on line on east side of gulch and erect a flag at this point, then, from flag on east side, measure a base N.0°10'W., 16.00 chs. to a point whence west flag bears S. 64°51'W.; tan. 65°01' x base or 2.14614 x 16.00 gives 34.34 chs. which added to 36.85 chs. makes.



71.19 Point of triangulation on east brink of Buckskin gulch.

Note: Point for ¼ sec. cor. on inaccessible ledges, temp. ¼ cor. set at 36.85 chs.

79.70 Intersect N. and S. line 5 lks. N. of the cor. of secs. 4,5,8 and 9.

Thence

S.89°52'W., on true line bet. secs. 5 and 8.

Over broken land on top of Buckskin mountain, through cedar and pinon timber and sagebrush and juniper undergrowth.

2.70 Gulch, 60 ft. deep, course S.70°W.

8.51 Point of triangulation on E. brink of Buckskin gulch, bears NW. and SE.

Subdivision of T.43 S.,R.2 W.

chains	
	Thence across gulch by triangulation; the approximate topography is as follows:
	Descend over series of limestone ledges 50 to 75 ft. high.
34.50	Bottom of Buckskin gulch and wash, 50 lks. wide, 10 ft. deep, 1000 ft. below sec. cor., course SE.; ascend precipitous E. slope of gulch over high ledges.
39.85	Point for ¼ sec. cor. on ledges and cannot be set.
42.85	Top of west brink of Buckskin gulch and ledges, 1000 ft. above bottom, bears N.2 chs. thence NW. and SE.
	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 witness cor. to the ¼ sec. cor., with brass cap marked
	¼ S 5 / S 8 / 1917 WC
	from which
	A pinon, 10 ins.diam.,bears S.19°W., 30 lks. dist.,marked W C ¼ S 8 B T
	A pinon, 12 ins.diam.,bears N.1½°W., 190 lks. dist.,marked W C ¼ S 5 B T
	Thence over rolling mountain top.
44.65	Mouth of draw into Buckskin gulch, drains NE., comes from S.70°W.; gradually ascend.
59.70	Top of slight ascent, 165 ft. above witness ¼ sec. cor., bears N. and S.; gradually descend.
79.70	The cor. of secs. 5,6,7 and 8, 35 ft. below top of ascent
	Land, rolling mountain top and rough broken canyon; general drainage SE.
	Soil, shallow brown sandy loam, gravelly and rocky of limestone formation, on gravelly and rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush and juniper. Fair grazing on mountain top.
	N.89°49'W., on a random line bet. secs. 6 and 7.

chains	
40.00	Set temp. ¼ sec. cor.
76.92	Intersect W. bdy. of the tp., 5 lks. S. of the cor. of secs. 6 and 7 hereto fore described.
	Thence
	S.89°47'E., on true line bet. secs. 6 and 7.
	Over rolling and broken mountain top through cedar and pinon timber and sagebrush and juniper undergrowth. Gradually ascend.
18.75	Top of ascent on N. slope, 35 ft. above sec. cor., desc.
27.05	Ravine, 30 ft. deep, course N.
32.40	A small depression, drains N.80°W.; gradually ascend.
36.92	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 6 / S 7 / 1917
	from which
	A cedar, 8 ins.diam.,bears S.10½°W., 137 lks. dist.,marked ¼ S 7 B T
	A cedar, 8 ins.diam.,bears N.41¾°W., 172 lks. dist.,marked ¼ S 6 B T
45.40	Top of ascent, bears N. and S.; descend.
59.40	Draw, 85 ft. to low top of ascent, course N.30°W.; ascend 100 ft. to
76.92	The cor. of secs. 5,6,7 and 8.
	Land, rolling mountain top, general N. exposure and drainage.
	Soil, shallow brown loam, gravelly and rocky of limestone formation, on gravelly and rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush and juniper. Fair grazing.

	N.0°03'W., on true line bet. secs. 5 and 6.
	Over rolling and broken mountain top, through cedar and pinon timber and undergrowth of sagebrush and juniper. Descend.

chains	
27.70	Head of ravine, 50 ft. below cor., course E.
40.00	On flat top of ascent.

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
S6 | S5
1917

from which

A cedar, 6 ins.diam.,bears N.5¾°E., 80 lks. dist.,marked ¼ S 5 B T

A cedar, 16 ins.diam.,bears N.72°W., 37 lks. dist.,marked ¼ S 6 B T

63.87	Top of high limestone ledges and S. brink of Buckskin gulch, bears N.30°W. and S.30°E. The point for closing cor. of secs. 5 and 6 will fall in ledges in gulch 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 cor. to the closing cor. of secs. 5 and 6, with brass cap marked

T42SR2W
S31
S6 | S5
WC
CC
T43S
1917

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

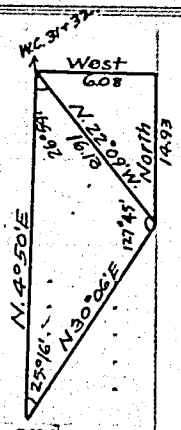
No suitable trees available for bearing trees.

From this cor. I triangulate across Buckskin gulch to the witness cor. of secs. 31 and 32, S. bdy. of T.42 S R.2 W. as follows:

From the witness cor. to the closing cor. of secs. 5 and 6, the witness cor. of secs. 31 and 32 on the N. bdy. of the tp. bears N.4°50'E., a flag on E. brink of gulc 6.08 chs. east and 14.93 chs. S. of witness cor. to secs. 31 and 32, bears N.30° 06'E. The course and

chains

distance bet. the flag on E. brink and the witness cor. to secs. 31 and 32 is N. 22°09'W.; 16.13 chs. I compute triangle as follows:



Log 16.13 chs. = 1.207634
Log sin 127°45' = 9.898006
Cologsin 25°16' = 0.369743
Log 29.88 chs. = 1.475383

N.4°50'E. 29.88 chs. = a northing of 29.77 chs. and an easting of 2.52 chs. 2.52 chs. plus departure of 3' west on 29.77 chs. = 2.55 chs. therefore 63.87 chs. plus 29.77 chs. gives

93.64 On true line; fall 2.55 chs. west of the witness cor. to cor. of secs. 31 and 32 S. bdy. of T.42 S.,R.2 W. which is 15.00 chs. north of true cor. point, or 93.64 chs. _ 15.00 chs. gives

78.64 Intersect true N. bdy. of tp. 2.54 chs. N.89°57'W. of the true cor. point for cor. of secs. 31 and 32, S. Bdy. of T.42 S.,R.2 W. Point for closing cor. falls on inaccessible ground. No. cor. set.

Note: The bottom of Buckskin gulch, a canyon withiwalls of series of limestone ledges and about 1000 ft. deep, drains SE., is about 8 chs. east of point for closing cor. of secs. 5 and 6.

Land, rough, broken mountains in the northern portion, rolling mountain top, in the southern portion.

Soil, of mountain top, shallow sandy loam, gravelly and rocky on rocky sub-soil; soil of northern portion, rocky, on rocky sub-soil.

Timber, scrub cedar and pinon.

Undergrowth, sagebrush and juniper. Fair grazing on southern portion of mile.

Boundaries of T.43 S.,R.2 W.

Boundaries of T.43 S.,R.2 W.

Latitudes, departures and closing errors.

Lines designated	True bearing	Distances.	Latitudes N.	Latitudes S.	Departures E.	Departures W.
		chs.	chs.	chs.	chs.	chs.
W.bdy.T43SR2W	South	478.22	.....	478.22	.....	.....
S.bdy. "	East	476.93	.....	.....	476.93	.....
E.bdy. "	North	479.87	479.87	.....	.....	.....
N.bdy. "	S.89°55'W	397.20	.....	.58	.....	397.
N.bdy. "	N.89°57'W	79.38	.07	.....	.....	79.
Convergency			.....	.....	.....	
			479.94	478.80	476.93	477.
			478.80			
Error in latitude			1.14			476.
Error in departure						

General description.

This township contains several varieties of land; rough mountainous, rolling benches and rolling mountain top. The rolling bench lands are situated on the West Clark Bench in secs. 12,13,23,24,25,26, 35 and 36; the western range of secs. comprise the mountain top and is situated on the summit of the Buckskin mountain. The land of the remaining western portion and north central portion lie on the E. and SE. breaks of the Buckskin mountain. Extending through the township in a northerly and southerly direction from sec. 1 to sec. 33 is what is called the Cockscomb, this is one mass of broken sandstone ledges, ridges and pinnacles. Buckskin gulch, (dry) cuts through the township in a southeasterly course entering in sec. 6 and leaving in sec. 34. It carries all of the drainage of the township with the exception of land in secs. 1,12 and 13 which drains E. to the Paria river. This gulch is in a deep canyon in the northwestern part of the township, opens out into a flat at the foot of the Buckskin mountains in sec. 15, cuts through the Cockscomb in secs. 22 and 23 and

drains along the east side of same until it reaches sec. 34 where it enters a box and becomes inacessible.

The soil of the Buckskin mountains is a shallow, rich, red and brown sandy loam, usually mixed with shales and rock, and lies on practically solid rock sub-soil. This mountain is of limestone formation. The soil of the remaining part of the tp. with the exception of that of the West Clark Bench which is a fine, dry, loose red sand, is generall rocky and a dry red clay and rocky of red sandstone formation. The most noticeable feature of the soil formation in the township is at the foot of the Buckskin mountains where it changes from a redsandstone to blue limestone formation.

Pigeon seap in sec. 27 is the only water in the township. This is only a sand seap of drainage from Clark bench and excavation is necessary to secure water. It is subject to drying up in the summer. There are numerous water pockets in Buckskin gulch and on the south end of the Clark bench but these hold water only for a short time after storms.

There are no settlers living in the township.

A tunnel is located in sec. 14 which probably traced indications of ore. There are indications of copper ore on the west side of the Cockscomb in secs. 1,12 and 12.

This township is adapted for the winter range for sheep.

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BOOK A-437

FIELD ASSISTANTS.

NAMES.	CAPACITY.
Frank Romney	1st. chainman
James Hill	2nd. chainman
Harold Evans	cornerman and axman
James Staurt	flagman.

4—2764

CERTIFICATE OF UNITED STATES TRANSITMAN AND SURVEYOR.

We, Andrew Nelson, U. S. Transitman and ~~I,~~ Howard W. Miller, U. S. Surveyor, hereby certify upon honor that, in pur

of special instructions received from the U. S. Surveyor General for Utah

bearing date of the 1st. day of February, 191 6, I have well, faithfully, and

in my own proper person, and in strict conformity with said instructions, the Manual of Surveying I

tions, and the laws of the United States, surveyed all those parts or portions of resurvey of r

and east boundaries and survey of the south and east boundaries

and subdivision of T. 43 S., R. 2 W.

of the Salt Lake B

and Meridian, in the State of Utah, which are represen

the foregoing field notes and date diagram as having been executed by ~~me~~ us, and under ~~my~~ our direction on dates shown on; and that all the cor

said survey have been established and perpetuated in strict accordance with the Manual of Surveying I

tions, 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 n

such survey.

Andrew Nelson, U.S. Tra

Howard W. Miller

U. S. Su

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Oct. 30

The foregoing field notes of the ~~survey of~~ resurvey of the north and east boun

and survey of the south and east boundaries and the subdivisional

of Township No. 43 South, Range No. 2 West of the Salt Lake Base a

Meridian, Utah,

executed by Howard W. Miller and Andrew Nelson

under ~~his~~ special instructions dated February 1 1916, having

critically examined, and the necessary corrections and explanations made, the said field notes and resurveys, and the s

they describe, are hereby approved.

M. O. Shoresen

U. S. Surveyor G

I certify that the foregoing transcript of the field notes of the above-described surveys in

, has been correctly copied from the original notes on file in this offic

U. S. Surveyor G

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Page

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BOOK A-437

D.

U. S. Surveyor General's Office
APR 24 1918
SALT LAKE CITY, UTAH.

FIELD NOTES

OF THE SURVEY OF THE

Retracement and Resurvey of part of Subdivision; Survey of the South Boundary; Survey of part of the Salt Lake Meridian, through T.43 S.; and Survey of part of the Subdivision of

T. 43 S., R. 1 W.

Of the Salt Lake Base and *Meridian,*

in the State of UTAH

EXECUTED BY

ANDREW NELSON, U.S. Transitman

and

ELLIOT BIRD, U.S. Transitman

~~*in the capacity of U. S. Surveyor-s*~~, *under instructions dated* Feb. 1, *1916,*

issued by the United States Surveyor General to govern surveys included in Group No. 50, *which were approved by the Commissioner of the General Land Office,* March 25, *1916*

Supplemental Assignment Instructions Dated July 25, and Sept. 5, 1917.

Survey commenced August 13, *1917*

Survey completed October 1, *1917*

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Examinations Verified

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

B Computations F.B.J.

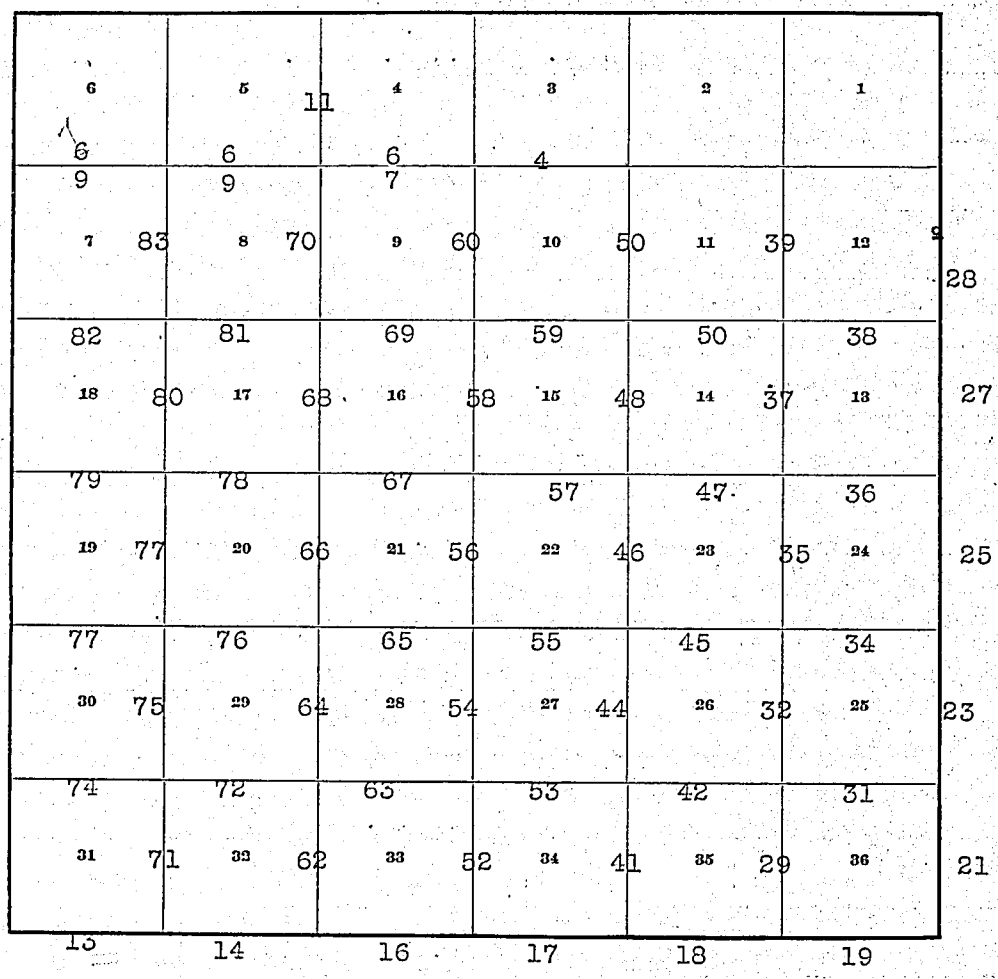
Comparing

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

BOOK A-437

INDEX DIAGRAM.

Township 43 South, *Range* 1 West



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INDEX DIAGRAM.

Township 43S, Range 1W.

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Date Diagram of T. 43 S., R. 1 W.

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For dates of establishment of cors on W. bdy of T.43 S.,R.1 E., see survey of said tp.

Lines dated and colored with black ink, were surveyed by

Andrew Nelson, U.S. Transitman

Lines dated and colored with red ink, were surveyed by

Elliot Bird, U.S. Transitman

Township 43 S., R.1 W.

Survey commenced August 13, 1917 and executed with Young & Sons light mountain transits Nos. 8589 (used by Andrew Nelson) and 8487 (used by Elliot Bird), equipped with Smith's solar attachment. The horizontal limbs are provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instruments were approved for use in this survey by the Assistant Supervisor of surveys for Utah, in supplemental assignment instructions dated July 25, and Sept. 5, 1917.

I examine the adjustments of transit No. 8589 and correc the level and collimation errors, then, to test the so 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:

Sept. 15: At my camp, situated in the NE. ¼ of sec. 15, T.43S., R.1W., approximate latitude 37°5' N., longitude 111°56' W.; at 7h 58m p.m. by my watch which carries correct l.m.t., I observe Polaris at approximate eastern elongation, in accordance with Manual of Instr tions, and mark the point in the line thus determined, on a peg driven in the ground, about 10 chs. N. of my station. Sept. 15, 1917.

Sept. 16: At 8 a.m., l.m.t., I lay off the azimuth of Polaris, 1°25¼' to the west, and note that a tree on top of mountain, about 6 miles distant coincides with the meridian thus determined. This tree is used as my reference of the Polaris line.

At 8h 35m a.m., l.m.t., I set off 37° 5', on the lat. arc 2°43' N. on the decl. arc; and note that the meridian determined by the solar agrees with the meridain as

Chains	
	established by Polaris observation.
	At 11h 55m a.m., l.m.t., I set off 2° 39½' N. on the decl. arc; and with transit in the meridain, observe the sun on the meridain; the resulting lat. is 37° 04½' or within 1' of the proper lat.
	At 2h 55m p.m., l.m.t., I set off 37° 4½' on the lat. arc; 2° 37' N on the decl. arc; and determine a meridian with the solar; this meridian bears 0° 01' west of the Polaris mer.; therefore, I conclude that the adjustments of the instrument (No. 8589) are satisfactory.
	The magnetic bearing of the true meridian, at 4h p.m., is N. 15° 30' W.; the angle thus determined gives the mag. decl. 15° 30' E. Sept. 16, 1917.
	Sept. 23: At the heretofore described station, I test the solar apparatus of transit No. 8487 on the Polaris mer. established Sept. 16th.; having examined the adjustments of the transit and found no errors in the level and collimation, then, at 8h 53m a.m., l.m.t., set off 37° 04½' on the lat. arc; 0° 00' on the decl. arc; and determine a mer. with the solar; this mer. bears nearly 1' to the left of the Polaris mer.
	At 3h 23m p.m., l.m.t., set off 0° 6½' S. on the decl. arc; and find that the mer. thus determined bears ½' to left of the Polaris mer.; therefore as the meridians determined by the solar obsn. does not deviate more than 1' of arc. from true Polaris mer., I conclude that the adjustments of this instrument are satisfactory.
	The instruments were kept in good adjustment, throughout the survey of this tp., being frequently tested on the above Polaris mer., and obsn. for lat. were taken daily.

	Steel tapes, 5 and 8 chains long were used in all measurements, together with clinometers for determining slope angles, and the reduced horizontal distances only appear

Chains

in the field notes. The tapes were tested, comparison being made with a steel standard tape, 1 chain long, kept and used for that purpose.

Retracement and Resurvey of Subdivision of T.43S.,R.1W.

From the cor. of secs. 2,3,10 and 11, which I find to be a cobble stone, 12x14x8 ins., firmly set, plainly mkd. with 5 notches on S. and 2 notches on E. edge, and witnessed by a few small stones; I re-establish cor. at same point as follows:

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, alongside of stone, for cor. of secs. 2,3,10 and 11, with brass cap marked

T43S	R1W
S3	S2
S10	S11

1917 from which

A cedar, 5 ins.diam.,bears N.18°E., 99 lks. dist., marked T43S R1W S2 BT
A cedar, 5 ins.diam.,bears S.63°W., 56 lks.dist., marked T43S R1W S10 BT
A cedar,25 ins.diam.,bears N.85°W., 187 lks.dist., marked T43S R1W S3 BT

Thence

West, retracing bet. secs. 3 and 10.

40.00 After a careful search, no trace of the original ¼ sec. cor. can be found.

80.64 Fall 82 lks. S. of the cor. of secs. 3,4,9 and 10, which is a sandstone, 14x8x4 ins., loosely set in mound of s properly marked, and withessed by mound of stone; I re-establish cor at same point as follows:

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, alongside of stone, for cor. of secs. 3,4,9 and 10, with brass cap marked

T43S	R1W
S4	S3
S9	S10

1917 from which

Chains	
	A cottonwood, 30 ins.diam., bears N.64½°E., 88 lks. dist.,marked T43S R1W S3 BT A cottonwood, 30 ins.diam.,bears S.66°E., 98 lks. dist.,marked T43S R1W S10BT
	and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; no trees within limits in remaining secs.
	The true course and distance of this mile is therefore N. 89°24' W., 80.64 chs.
	Thence
	S. 89°24' E., resurveying bet. secs. 3 and 10.
	Along river bottom, some scattering cottonwoods along same.
2.00	Enter Paria river bed, brs. NW. and nearly E.; stream is 50 lks. wide, 1½ ft. deep, medium swift current, muddy; course nearly E.; river bed about 4 chs. wide; thence along same.
26.70	Leave Paria river, course S.30°E., thence gently asc. over bottom land.
40.32	Position for restored ¼ sec. cor.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S3/S10 1917 from which
	A cottonwood, 30 ins.diam.,bears S.66¾°W., 290 lks. dist., marked ¼ S10 BT A cottonwood, 25 ins.diam.,bears N.74½°W., 616 lks. dist., marked ¼ S3 BT
	Conner situated at edge of bottom land, brs. N.80°W and SE.; asc. rocky SW. slope, 150 ft. to
48.70	Top of sandstone spur, projects S.; desc. 110 ft. to
56.40	Wash, 40 lks. wide, 5 ft. deep, in bottom of wide hollow, course S.20°W.; asc. general W. slope, 140 ft. to
80.64	The cor. of secs. 2,3,10 and 11.
	Land, nearly level river bottom on W. ½ mile; rough and broken on E. ½ mile; drainage into Paria river.
	Soil, gravelly, rocky and sandy; sandstone formation.
	Timber, few scattered cottonwoods along river, and few

Chains	
	few cedar and pinon on E. ½ mile.
	Undergrowth, sparse short sage, shadscale and greasewood.

	From the cor. of secs. 3,4,9 and 10.
	West, retracing bet. secs. 4 and 9.
40.00	After careful search, am unable to find any trace of the original ¼ sec. cor.
60.09	Fall 77 lks. N. of the old witness cor. to secs. 4,5,8 and 9, which I find to be a sandstone, 12x10x4 ins., firmly set, marked and witnessed as described by the surveyor general.
	Note: This cor. later changed to an A.P. cor.; see resur of this line.
	The true course and distance bet. the cor. of secs. 3,4,9 & 10 and the above W.C. is S.89°16'W., 60.09 chs
	Thence, from the above W. C., continue West.
80.09	(Record dist. of 20.00 chs. from W.C.) Set temp. point for cor. of secs. 4,5,8 and 9.

	From temp. cor. of secs. 4,5,8 and 9.
	West, retracing bet. secs. 5 and 8.
39.56	Fall 17 lks. S. of the original ¼ sec. cor., which is a point,(cor. stone missing,) which bears N. 15 lks. dist (record) of original bearing tree; a cedar, 10 ins. dia., marked as described by the surveyor general.
	I re-establish cor. at same point as follows:
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S5/S8 1917 from which, I mark
	A cedar, 5 ins. diam., bears N.43°W., 257 lks. dist., marked ¼ S5 BT
	The true course and dist. bet. the above ¼ sec. cor., and the W.C. to secs. 4,5,8 and 9, is N.89°50'W.,59.56

Chains	
	Thence from the ¼ cor. of secs. 5 and 8, continue West.
40.16	Fall 218 lks. S. of the original cor. of secs. 5,6,7 and 8, which is a point, (cor. stone missing,) which bears S. 15° E., 57 lks. dist. (record) of original bearing tree; a cedar, 6 ins.diam., marked S6 T43S R1W BT.
	I re-establish cor. at same point as follows:
	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in ground, for cor. of secs. 5,6,7 and 8, with brass cap marked

T43S	R1W
S6	S6
S7	S8

1917 from which, I mark

A cedar, 10 ins.diam.,bears S.44°E., 155 lks.dist., marked T43S R1W S8 BT
A cedar, 12 ins.diam.,bears S.55¼°W., 47 lks. dist., marked T43S R1W S7 BT

No suitable trees within limits in sec. 5, and other accessories not practicable.

True course of W. ½ mile bet. secs. 5 and 8, is therefore N.86°54' W., and dist. is 40.22 chs.

From the cor. of secs. 5,6,7 and 8.

West, retracing bet. secs. 6 and 7.

40.00	After careful search, am unable to find any trace of the original ¼ sec. cor.
79.29	Intersect W. bdy. of tp., 37 lks S. of true point for cor. of secs. 1,6,7 and 12, which is 37 lks. S. of the W. C., heretofore described in survey of T.43S R2W.

True course and distance of this mile is therefore N.89°44'W., 79.29 chs.

From the cor. of secs. 3,4,9 and 10.

S. 89°16' W., resurveying bet. secs. 4 and 9.

Gradually ascending from edge of Paria river, up along

Retracement and Resurvey of Subdivision of T.43 S.,R.1 W

Chains	
	wide draw from W.; through few scattering cedars and short undergrowth.
5.50	Wash, 20 lks. wide, 4 ft. deep, course NE.
29.95	Wash, 20 lks. wide, 7 ft. deep, course NE.
37.52	True position for ¼ sec. cor., will fall on unsafe ground therefore at this point.
	Set an iron post, 3 ft. long, 1in. dia., 26 ins. in ground, for witness ¼ sec. cor., with brass cap marked
	WC ¼ S4 / S9 1917 from which
	A cedar, 6 ins.diam.,bears N.46¼°E., 125 lks. dist., marked WC ¼ S4 BT
	A cedar, 8 ins.diam.,bears S.43¼°E., 345 lks.dist., marked WC ¼ S9 BT
38.00	Wash, 40 lks. wide, 5 ft. deep, course N.80°E., in bottom of big draw; thence up along same.
40.06	True position for ¼ sec. cor., at proportional measurement, bet. cor. of secs. 3,4,9 and 10 and the old W.C. to cor. of secs. 4,5,8 and 9; falls in edge of wash, where cor. could not be perpetuated. No cor. set
	Leave wash, from S.70°W.; gradually asc. SE. slope.
60.09	The old witness cor. to secs. 4,5,8 and 9. I destroy all marks on this cor., and remark same A.P. for angle point cor.
	Cor. situated at base of sandstone rim, brs. NE. and SW.
	Thence,
	N. 89°50' W.,
	Abrupt ascent over broken ledges.
64.75	Top of ledges, thence less abrupt ascent.
76.00	Top of ascent and ridge, 225 ft. above base, brs. NE & S
79.94	Position for true cor. of secs. 4,5,8 and 9, at proportional measurement bet. the W.C. or A.P. above mentioned and the ¼ cor. of secs. 5 and 8.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 4,5,8 and 9, with brass cap marked

Chains	
	T43S | R1W S5 | S4 S8 | S9
	1917 from which
	A cedar, 12 ins.diam.,bears N.23½°E.,206 lks. dist., marked T43S R1W S4 BT
	A cedar, 12 ins.diam.,bears S.8½°W., 95 lks.dist., marked T43S R1W S8 BT
	A cedar, 16 ins.diam.,bears N.10°W., 115 lks.dist., marked T43S R1W S5 BT
	No trees within limits in sec. 9 and no other accessories available.
	Land, rolling and broken; exposure and drainage to E.
	Soil, gravelly and sandy loams, with rocky and ledges.
	Timber, scattering cedars on mile.
	Undergrowth, short sage, greasewood, and brigham-tea.

	From the cor. of secs. 4,5,8 and 9.
	N. 89°50' W., resurveying bet. secs. 5 and 8.
	Over broken and hilly land, through scattering cedars and short undergrowth; desc. 75 ft. to
14.30	Draw, course NE.; asc. 100 ft.
27.00	Spur, projects NE.; desc.
39.71	The ¼ sec. cor.
	Thence, N.86°54'W.
45.00	Draw, 40 ft. below ¼ cor., course NE.; asc. 25 ft.
50.00	Spur, projects NE.; desc. 55 ft.
62.00	Draw, course N.; asc. 65 ft.
65.70	Ridge, brs. N.20°W. and S.20°E.; desc. 40 ft. to
79.93	The cor. of secs. 5,6,7 and 8.
	Land, broken and hilly, general NE. drainage and face.
	Soil, gravelly, sandy, rocky and some clay.
	Timber, scattering cedars.
	Undergrowth, short sage, greasewood, shadscale and grass.

	From the cor. of secs. 5,6,7 and 8.
	N. 89°44' W., resurveying bet. secs. 6 and 7.
	Over rough and broken land, through scattering cedars

Chains	
	and short undergrowth.
	Descend abruptly 100 ft. to
9.00	Bottom of gulch, course NE.; asc. 100 ft. to
13.80	Spur, projects NE.; desc. 60 ft.
21.50	Main gulch, course NE.; Asc. broken general SE. slope.140
39.64½	Proportional measurement for ¼ sec. cor.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec. 6 only, with brass cap mkd.
	¼ S6 / 1917 from which
	A cedar, 10 ins. diam., bears N.9¼°E., 70 lks. dist., marked ¼ S6 BT
	No other trees suitable within limits, and other accessories not available.
40.00	On SE. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec. 7 only, with brass cap mkd.
	¼ S7 / 1917 from which
	A cedar, 15 ins. diam., bears S.19¼°W., 226 lks. dist., marked ¼ S7 BT
	No other trees suitable within limits in sec 7, and other accessories not available.
	Asc. 70 ft.
52.40	Top of sany ridge, brs. N.70°E and S.70°W; desc. 100 ft.
63.60	Gulch, course N.70°E.; gradually asc. along N. edge.
79.29	The true point for cor. of secs. 1,6,7 and 12 on W. bdy of tp., which is 37 lks. S. of the W.C.
	Land, rough and broken, having a general NE. face and drainage.
	Soil, rocky and gravelly, with same loose sand and clay.
	Timber, scattering cedars.
	Undergrowth, short sage, greasewood and brigham-tea.

	From the cor. of secs. 4,5,8 and 9.

Retracement and Resurvey of Subdivision of T.43S.,R.1W.

Chains	
	North, retracing bet. secs. 4 and 5.
20.00	After diligent search, am unable to find any trace of old W. C.
40.00	No trace of original $\frac{1}{4}$ sec. cor. could be found.
80.73	Intersect N. bdy. of tp. 59 lks. W. of the cor. of secs. 4,5,32 and 33, which is an iron post, 2 ins. dia., 12 ins. above ground, properly marked and witnessed.
	True course and distance of this line is therefore N. 0°25' E., 80.73 chs.
	Thence
	S. 0°25' W., resurveying bet. secs. 4 and 5.
	Over rolling and hilly land, facing to the E., through few scattering cedars and short undergrowth.
21.00	Low ridge, 95 ft. above sec. cor., brs. E. and W.
40.36½	Proportional measurement
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{1}{4}$ S5 | S4 1917 from which
	A cedar, 10 ins.diam.,bears S.65½°E., 180 lks.dist., marked $\frac{1}{4}$ S4 BT
	A cedar, 17 ins.diam.,bears S.17½°W., 196 lks.dist., marked $\frac{1}{4}$ S5 BT
41.50	Draw, 85 ft. below ridge, course N.70°E; asc.
80.73	The cor. of secs. 4,5,8 and 9, 250 ft. above draw.
	Land, rolling and hilly, general face and drainage to E.
	Soil, gravelly and sandy loams, with some rocky on surface. sandstone formation.
	Timber, very scattered cedars.
	Undergrowth, short sage, greasewood and brigham-tea.
	Fair grazing land.

Random South and East Boundaries of T.43S.,R.1W.

Chains

From the cor. of Ts. 43 and 44 S., Rs. 1 and 2 W., recently set and described in the survey of T.43S., R.2 W.; thence

East, on a random line, along the S. bdy. of Tp. 43 S., R.1 W., setting temp. ¼ sec. and sec. cors. at interval of 40.00 chs.

Being unable to run E. from the tp. cor., on account of line following along edge of Buckskin gulch; to avoid which I offset as follows:

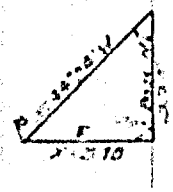
South, 7.87 chs.; thence

East, on offset line, 40.00 chs.; thence

North, 7.87 chs. to true random line, thence

East, on random line.

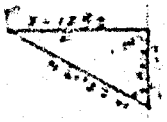
217.66 To W. edge of impassable Buckskin gulch; triangulate as follows:



Set a flag on line, on E. edge of gulch; then from flag on E. side, measure a base line, North, 3.250 chs. to point whence flag on W. side bears S.44°24'W; therefore distance is tan. 44°24' x base or .97927 x 3.25 equals 3.18 chs., which added to 217.66 makes

220.84 To triangulation point.

409.79 Top of high ledge, over which I cannot chain; therefore triangulate as follows:



Set a flag on line at base, also erect a flag at top; then from flag at base, measure a base line South, 7.00 chs. to point whence flag on top bra. N.61°22'W. dist. is tan. 61°22' x base or 1.83159 x 7.00 = 12.82 chs., which added to 409.79 makes

4[illegible].61 To triangulation point.

143.18 W. edge of Paria river canyon; impossible to chain across therefore triangulate as follows:

Erect flag at this point, thence proceed to E. side of canyon, where I place instrument on line, E. of flag,

Chains	
	then measure a base line, South, 5.67 chs. dist., to point whence flag on W. side bears N.45°51' W.; therefore tan. 45°51' x base or 1.03012 x 5.67 = 5.84, which added to 443.18 makes
449.02	To triangulation point.
480.00	Set temporary point for cor. of Ts. 43 & 44 S., Rs. 1 E. and 1 W.
	Thence,
	North, on a random line, on Salt Lake Meridian, setting temp ¼ sec. and sec. cors. at intervals of 40.00 chs. and at
316.25	Fall 30 lks. E. of the original cor. of secs. 7,12,13 and 18, hereinafter described.
	Therefore the length of S. bdy. of tp. is 479.70 chs. and the temp. cors. as set are 30 lks. E. of their true positions.

	From the cor. of Ts. 43 and 44 S., Rs. 1 and 2 W.
	Thence,
	East, on true S. bdy. of T.43 S.,R.1 W., bet. secs. 6 and 31.
	The line to E. of tp. cor. follows along edge, and in Buckskin gulch, a chasm about 500 ft. deep here, and 2 to 3 chs. wide, cut through solid sandstone walls, course nearly E. Tp. cor. situated on S. rim of same; to avoid the gulch I offset as follows:
	South, 7.87 chs., thence
	East, 39.70 chs. on offset line; thence
	North, 7.87 chs. to true line, where at
39.70	Set an iron post, 3 ft. long, 1 in. dia., 16 ins. in ground, to solid rock and 10 ins. in mound of stone, for ¼ sec. cor., with brass cap marked
	¼ S31 / S6 1917 from which

Chains

A cedar, 36 ins.diam.,bears N.86°E., 154 lks. dist., marked ¼ S31 BT
and mark N. face of low ledge, with a cross, 12 ins. dia.
with B.O. which bears S.6½°E., 23 lks. dist.
No suitable trees within limits in sec. 6.
Cor. stands on ledgy N. slope on S. edge of Buckskin gulch, and at same elevation of tp. cor.
Thence, East on true line.
Gently ascending over NW. slope, through scattering cedar and pinon timber, and short undergrowth.

79.70 On gentle W. slope, 115 ft. above ¼ cor.
Set an iron post, 3 ft. long, 2 ins. dia., 10 ins. in ground to bedrock, and 14 ins. in mound of stone, 4ft. base, for cor. of secs. 5,6,31 and 32, with brass cap marked

T43S	R1W
S31	S32
S6	S5

T44S
1917 from which

A cedar, 10 ins.diam.,bears N.89°E., 125 lks.dist., marked T43S R1W S32 BT
A cedar, 8 ins.diam.,bears S.32¼°E., 213 lks.dist., marked T44S R1W S5 BT
A cedar, 8 ins.diam.,bears S.26½°W., 519 lks.dist., marked T44S R1W S6 BT
A cedar,18 ins.diam.,bears N.61½°W., 49 lks.dist., marked T43S R1W S31 BT.

Land, rolling and broken; W ½ mile follows along Buckskin gulch; E ½ mile has a gentle NW slope into same.
Soil, rocky of sandtone formation, ledges and bedrock, with some loose sand.
Timber, scattering cedar and pinon on mile.
Undergrowth, short sage, greasewood, oose and grass.
Fair grazing land.

East, bet. secs. 5 and 32.
Over rolling and broken land, through scattering cedar and pinon timber, and short undergrowth.

3.50 Top of ascent, brs. N. and S.; top of low gravelly hill brs. N. of line about 2 chs. dist.

Chains	
	Thence over gentle NE. slope.
35.00	Base of descent, 70 ft. below top at 3½ chs., brs. N & S. Gradually asc. 25 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked ¼ S32 / S5 1917 from which A cedar, 18 ins. diam., bears S.26° W., 168 lks. dist., marked ¼ S5 BT A cedar, 8 ins. diam., bears N.30° W., 148 lks. dist., marked ¼ S32 BT
44.50	Base of sandstone outcrop, brs. NE. and SW.; asc. 75 ft. over ledges.
47.00	Top of same, brs. NE., and extends south about 10 chs. thence over top.
58.20	Descend abruptly 75 ft. over ledge to
59.50	Base of ledge and sandstone outcrop, brs. NE. and SW; thence gradually desc. E. slope, 50 ft. to
79.00	Base of descent, brs. NE. and SW.; small drain, course NE.
80.00	On a gentle sandy N. slope.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 4,5,32 and 33, with brass cap marked T43S | R1W S32 | S33 S5 | S4 T44S 1917
	raise a small mound of stone, W. of cor.
	No trees within limits and too sandy for pits.
	Land, rolling and broken; general NE. exposure and drainage.
	Soil, loose sand, sandstone bedrock, with some gravel.
	Timber, very scattered cedar and piñon.
	Undergrowth, sage, greasewood, rabbit-brush and oose.
	Fair grazing land.

South Boundary of T.43 S., R. 1 W.

Chains	
	East, bet. secs. 4 and 33.
	Over rolling, sandy land, gradually asc. nearly W. slope, through few scattered cedars and short undergrowth.
30.50	Top of ascent and sandy ridge, 75 ft. above sec. cor. brs. N.20°W and S.20°E.; desc. E. slope, 40 ft. to
40.00	On SE. slope,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S33 / S4 1917 from which
	A cedar, 18 ins. diam., bears S.83° E., 281 lks. dist marked ¼ S4 BT
	No other suitable trees within limits; and loose sand, pits impracticable.
53.00	Begin steep descent towards rim of gulch.
57.96	Right edge of rim of Buckskin gulch, about 600 ft. deep, course SE.; 215 ft. below ¼ sec. cor.
61.14	Left edge of same.; gradually asc. W. slope, 90 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 8 ins. in ground, to bedrock and 18 ins. in mound of stone, 5ft. base, for cor. of secs. 3,4,33 and 34, with brass cap marked
	T43S | R1W S33 | S34 S4 | S3 T44S 1917 from which
	A cedar, 20 ins. diam., bears N.62½°E., 56 lks. dist., marked T43S R1W S34 BT
	A cedar limb, 10 ins. diam., bears S.36°E., 47 lks. dist. marked T44S R1W S3 BT
	A cedar, 14 ins. diam., bears S.46°W., 293 lks. dist., marked T44S R1W S4 BT
	A cedar limb, 6 ins. diam., bears N.24°W., 304 lks. dist. marked T43S R1W S33 BT
	Land, rolling and broken; drainage into Buckskin gulch.
	Soil, deep, loose sand, some sandstone bedrock and gravel
	Timber, very scattering cedar.
	Undergrowth, sage, greasewood, oose and grass.

Chains	
	East, bet. secs. 34 and 3.
	Gradually asc. N. slope, through scattering cedar and few pinon and short undergrowth.
7.00	Base of sandstone break or rim, brs. N., and extends S. for 3 chs., thence E.; asc. broken W. slope over ledges and broken barren sandstone slopes, 140 ft. to
21.50	Top of ascent and small bench, extends S. 6 chs. and brs. N.; this break is only a low point of higher break to N. of line.
29.70	Edge of top, brs. NE. and SW.; desc. abruptly over ledges.
34.00	Base of break, 70 ft. below top, brs. same.; thence gradually desc. broken SE. slope.
40.00	On an E. loose sandy slope.
	Set an iron post ,3ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	S34 ¼ S3 1917 from which
	mark a sandrock, with cross and B.O., 18 ins. diam., bears N.42°E., 31 lks. dist.
	No trees within limits, and other accessories impracticable.
	Thence through sandrock outcrops and pinnacles.
44.00	Leave same, brs. N. and S.; thence over more rolling land, sloping S., through heavier timber.
53.55	Sand wash, 10 ft. deep, 30 lks. wide, course S.20°E,
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 2,3,34 and 35, with brass cap marked

T43S	R1W
S34	S35
S3	S2

T44S
1917

	raise a small mound of stone, W. of cor.
	No suitable trees within limits; loose sand, pits impracticable.

South Boundary of T.43 S., R. 1 W.

Chains	
	Land, rolling and broken; exposure and slope to S.
	Soil, loose sand, sandstone bedrock and rocky.
	Timber, scattering cedar and few pinon.
	Undergrowth, sage, greasewood, ooze and rabbit-brush.
	East, bet. secs. 2 and 35.
	Over rolling sandy land, sloping S. to Buckskin gulch, through scattering cedar and pinon timber, and short undergrowth.
27.00	Ravine, 25 ft. deep, course S.
38.00	Ravine, 20 ft. deep, course S.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S35 / S2 1917 from which
	A cedar, 18 ins.diam., bears S.58¼°E., 154 lks. dist., marked ¼ S2 BT
	A cedar, 8 ins.diam., bears N. 18°W., 208 lks.dist., marked ¼ S35 BT
41.20	Ravine, 20 ft. deep, course S.20°W.
56.50	Base of sandstone mountain, brs. N.20°W and S.20°E; gradually asc. along base, over barren sandstone bedrock.
75.47	At base of steep barren face of mountain, brs. N.70°W. and S.70°E.; impossible to set cor. at true point; therefore at this point.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in mound of stone, on bedrock, for witness cor. of secs. 1,2,35 and 36, with brass cap marked
	T43S R1W / S35 S36 / S2 S1 WC / T44S 1917 from which
	A cedar, 16 ins.diam., bears N.89°W., 386 lks.dist., marked WC T43S R1W S35 BT
	S. face of ledge, bears N.42°E., 6 lks.dist., mkd. cross (X) B.O.

Chains	
	No trees within limits in remaining secs; and other accessories not available.
	Cor. stands 90 ft. above base of mountain.
	Asc. abruptly over barren SW. slope, 120 ft. to
80.00	True point for cor. of secs. 1,2,35 and 36, cut cross (X) for exact cor. point; on abrupt S. barren sandstone face; inpossible to set cor. here.
	Land, rolling on W. 56½ chs; mountainous on remainder; general S. exposure and drainage towards Buckskin gulch.
	Timber, very scattered cedar and pinon.
	Undergrowth, sage, brigham-tea, oose and grass.
	Note: Small water pockets were found along base of mountain, S. of line; nearly dry at present.
	East, bet. secs. 1 and 36, from true point.
	Over mountainous land; asc. abruptly over barren sandstone face, 125 ft. to
6.00	Top of ascent and mountain, brs. NW. and extends S. 3 chs.
10.09	E. edge of top, brs. NE. and SW.; top of sandstone wall, 225 ft. high, over which it is impossible to chain; thence by triangulation.
20.00	Base of wall, brs. NE. and SW.
22.91	To triangulation point, and base of mountain, brs. SW and extends N. to edge of Paria river; asc. W. slope, 130ft.
29.00	Gravelly ridge, brs. N. and S.
	Begin abrupt descent over series of small ledges towards Paria river
40.00	On steep E. slope, 225 ft. below ridge.
	Set an iron post ,3ft. long, 1 in. dia., 26 ins. in mound of stone, 5 ft. base, on bedrock, for ¼ sec. cor., with brass cap marked
	S36 / ¼ / S1 / 1917
	No other accessories available.

Chains	
	Desc. abruptly 90 ft. to
43.48	W. rim of Paria river canyon, brs. N.20°W and S.; imposs. to chain across; thence by triangulation.
46.00	(approximate) Paria river, in narrow chasm about 700 ft. deep, with perpendicular sandstone walls, course S.; stream in bottom, 50 lks. wide, 2 ft. deep, muddy. wate
49.32	E. rim of canyon and triangulation point.
	Thence gradually asc. W. rocky slope, through scattering cedar and pinon timber; 300 ft. to
80.00	True point for cor. of Ts. 43 and 44 South, Range 1 W., falls on barren sandstone, steep W. slope, cut cross (X) for exact cor. point; impossible to perpetua cor at this point; therefore S. 50 lks. dist. of true point, on level ground
	Set an iron post, 3 ft. long, 3 ins. diam., 16 ins. in ground to solid rock, and in a mound of stone, 4 ft. base, for W.C. of Ts. 43 and 44 S., R. 1 W., with brass cap marked

WC
T43S
R1W
S36
S1
T44S
1917

from which

A cedar, 6 ins. diam., bears S.42½°W., 52 lks. dist., marked WC T44S R1W S1 BT

A cedar, 8 ins. diam., bears N.30¾°W., 331 lks. dist., marked WC T43S R1W S36 BT

Note: This cor. was originally mkd. for cor. of 4 townships and later changed to cor. of 2 tps. only, as above described.

Land, mountainous and broken.

Soil, rocky of sandstone formation; bedrock and ledges, with some loose sand and gravel.

Timber, scattering cedar and pinon on E. 30 chs., only a few scattered trees in remaining portion of mile.

Undergrowth, sparse short sage, brigham-tea and oose.

Chains	
	The Salt Lake Meridian was originally run North from the present cor. of Ts.43 & 44 S., R. 1 W., setting one set of cors. at regular intervals of 40.00 chs. for Rs. 1 E. and 1 W.; subsequently these cors. were changed to refer to range 1 W. only, and an additional set of cors. set for range 1 E.
	Thence, from true cor. point of Ts.43 and 44 S., R. 1 W. North, on Salt Lake Meridian, bet. secs. 31 and 36.
	Over rolling and broken land, facing W., through scattering cedar and pinon timber; sparse short undergrowth.
7.20	Ravine, 25 ft. deep, course W.
16.75	Rocky, narrow gulch, 100 ft. deep, course W.; and base of sandstone break, brs. W. for 4 chs., thence N., and E. for about 7 chs., thence S.
	Ascend abruptly over ledges and barren sandstone slopes.
29.25	Top of extreme W. point of break and ledges, 295 ft. above base, brs. nearly N., and SE. for 1½ chs., thence E. to S.
	To avoid chaining along W. face of break, I offset as follows:
	East, 2.67 chs., thence
	North, on offset line; over high bench land, gentle W. slope.
31.94	Thence measure W. 217 lks. dist. to edge of bench and top of break, placing this ¼ cor., 50 lks. E. of true point.
	Position for ¼ cor. of sec. 31, T.43 S., R.1 E., 40.00 chs. N. of cor. of Ts. 43 & 44 S., R.1 E.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, 5 ft. base, on bedrock, for witness ¼ sec. cor. with brass cap marked

¼

WC | S31

1917 from which

A cedar, 4 ins. diam., bears N.60°E., 7 lks. dist., marked WC ¼ S31 BT

No other trees within limits.

Chains	
	The true point for cor. falls on W. ledgy face of break, could not be set.
	Thence, continue North on offset line, 267 lks. E.
40.00	I measure W. 87 lks. dist. to edge of bench, placing cor. 1.80 chs. E. of true point.
	Set an iron post, 3 ft. long, 1 in. dia., 4 ins. in ground to bedrock, and 22 ins. in mound of stone, with 5 ft. base, for the witness ¼ cor. of sec. 36, T.43 S. R. 1 W., with brass cap marked
	WC S36 / 1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	No suitable trees within limits.
	True point for cor., 1.80 chs. W., falls on steep, ledgy W. face of break and could not be set.
	Continue on offset line, 2.67 chs. E. of true line.
54.20	Edge of bench and top of break, brs. N.10°E. and S.10°W.
	Descend abruptly over ledges, 90 ft.
64.45	Base of break and gulch, course SW.; gulch comes from th N. through break.
	Asc. abruptly 90 ft. to
68.15	Top of break on E. edge of the gulch from N., brs. SE. and SW.
68.63	Thence offset back W. 2.67 chs. to true line; thence North, on true line.
71.94	On nearly level ground.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 30 and 31, T.43 S., R.1 E., with brass cap marked
	T43S / S30 / S31 / R1E. / 1917 from which

Chains	
	A cedar, 16 ins.diam., bears N.46½°E., 72 lks.dist., marked T43S R1E S30 BT
	dig pits, 24x24x12 ins., in both secs. NE. and SE., 6ft. dist.
	No trees within limits in sec. 31.
80.00	On gentle SE. sandy slope of bench.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 25 and 36, T.43S.,R.1W., with brass cap marked
	T43S R1W S25 | S36 1917
	from which
	A cedar, 16 ins.diam., bears S.49°W., 194 lks.dist., marked T43S R1W S36 BT
	A cedar, 16 ins.diam., bears N.43½°W., 388 lks.dist., marked T43S R1W S25 BT
	Land, broken benchs and broken mountainous, along high sandstone break; general face and drainage to W.
	Soil, rocky of sandstone formation, with ledges, bedrock and loose sand.
	Timber, scattering cedar and pinon.
	Undergrowth, sparse short greasewood, sage, oose and grass.

	North, on E. bdy. of sec. 25.
	Over rolling and broken bench land, through few scattered cedars, and short undergrowth.
21.00	Small drain, course W.; gently asc. SW. slope.
31.94	Set an iron post, 3 ft. long, 1in. dia., 26 ins. in ground, for ¼ cor. of sec. 30, T.43S R1E., with brass cap marked
	¼ S30 1917
	dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.
40.00	On top of low sandy ridge, brs. N.80°E. and S.80°W., 45 ft. above swale.

Chains	
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec. 25, T.43 S., R.1 W., with brass cap marked
	¼ S25 1917
	dig pits, 18x18x12 ins., N. and S. of post, 3ft. dist. and raise a small mound of stone, W. of cor.
	Thence over low broken land, along W. slope.
45.60	Wash, 20 lks. wide, 15 ft. deep, course W.; heads 5chs. E. in low break.
59.35	Ravine, 30 ft. deep, heads in low break 10chs. E., course W.
71.94	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 19 and 30, T.43S., R.1 E., with brass cap marked
	T43S. S19 / S30 R1E 1917
	dig pits, 24x24x12 ins., in both secs. NE. and SE., 6 ft. dist.
	No trees within limits.
75.05	Rocky gulch, 40 ft. deep, course W.
80.00	On rocky gentle NW. slope.
	Set an iron post, 3 ft. long, 2 ins. dia., 6 ins. in ground, to bedrock, and 18 ins. in mounduof stone, 5 ft. base, for cor. of secs. 24 and 25, with brass cap marked
	T43S R1W S24 / S25 1917 from which
	A cedar, 5 ins.diam., bears S.62¾°W., 90 lks.dist., marked T43S R1W S25 BT
	No suitable trees within limits in sec. 24 and other accessories not available.

Chains	
	Land rolling and broken bench, sloping and draining W.
	Soil, loose sand, gravelly and rocky; sandstone formation.
	Timber, scattered cedar and pinon.
	Undergrowth, sage, greasewood, oose and grass.
	Fair grazing land.

	North, on E. bdy. of secs. 24.
	Over broken land, facing W., through scattering cedar and pinon timber, and short undergrowth.
0.45	Small wash, 5 lks. wide 3 ft. deep, course N.80°W.
5.00	Ravine, 25 ft. deep, course SW.
10.20	Well defined stock trail, brs. E. and W.
28.65	Low ridge spur, projects S.70°W.
31.94	On gentle W. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 10 ins. in ground, to bedrock, and 16 ins. in mound of stone, for ¼ cor. of secs. 19, T.43S.,R.1 E., with brass cap marked
	¼ S19 1917 from which
	A cedar limb, 6 ins.diam.,bears N.56°E., 98 lks. dist., marked ¼ S19 BT
	A cedar limb, 6 ins.diam.,bears S.23°E., 69 lks. dist., marked ¼ S19 BT
34.45	Draw, 10 ft. deep, course SW.
40.00	On a SW slope.
	Set an iron post. 3 ft. long, 1 in. dia., 8 ins. in ground to bedrock, and 18 ins. in a mound of stone, for the ¼ cor. of sec. 24, T.43 S.,R.1 W., with brass cap marked
	¼ S24 1917 from which
	A cedar, 18 ins.diam.,bears S.14¾°W., 92 lks. dist., marked ¼ S24 BT

Chains

No other suitable trees within limits and other accessor not available.

Asc. 15 ft. to

43.20 Top of ascent of low rim, 60 ft. above sec. cor., brs. S.80°W. and S.80°E.; thence gradually desc. over broken land facing N.

71.94 Set an iron post, 3 ft. long, 2 ins.dia., 6 ins. in ground to bedrock, and 18 ins. in mound of stone, for cor. of secs. 18 and 19, T.43 S.,R.1 E., with brass cap marked

T43S
S18
S19
R1E
1917 from which

A cedar, 8 ins.diam.,bears N.10½°E., 57 lks.dist., marked T43S R1E S18 BT
A cedar,10 ins.diam.,bears S.70½°E., 116 lks.dist. marked T43S R1E S19 BT

72.30 Draw, 20 ft. deep, course W.

80.00 On NW. slope, 100 ft. below top at 43.20 chs.

Set an iron post, 3 ft. long, 2 ins. dia., 18 ins. in ground to bedrock, and 8 ins. in mound of stone, for cor. of secs. 13 and 24, T.43 S.,R.1 W., with brass cap marked

T43S
R1W
S13
S24
1917 from which

A cedar, 12 ins.diam.,bears S.81½°W., 149 lks.dist., marked T43S R1W S24 BT

No other trees within limits in sec. 13, and no rock available for accessory mound.

T. 43 chs. broken land, along low break, facing W.; remainder is broken land, facing N.; drainage on mile

Soil, rocky of sandstone formation, red clay and some sandy and gravelly loams.

Timber, scattering cedar and few pinon on mile.

Undergrowth, short sage, greasewood, ooze and brigham-to

Chains	
	North, on E. bdy. sec. 13.
	Over broken land, facing NW., through scattered cedar and pinon timber, and short undergrowth.
3.80	Draw, 25 ft. deep, course W.
17.65	Draw, 15 ft. deep, course SW.
20.00	Leave broken land and timber, crs. E. and W.
	Make diligent search for the W.C. as reported set at 56.00 chs. from sec. cor. to N., fail to find any trace of same. Thence over rolling open land facing to the W.
31.94	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor. of sec. 18, T.43 S., R.1 E., with brass cap marked ¼ | S18 1917
	dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.
36.25	After a careful search, fail to find any trace of old ¼ cor.
39.99½	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor. of sec. 13, T.43 S., R.1W., with brass cap marked ¼ | S13 1917
	dig pits, 18x18x12 ins., N. and S. of post, 3ft. dist.
45.05	Main shallow ravine, 15ft. deep, course SW.; thence over land with S. and SE. exposure.
76.25	The original cor. of secs. 7,12,13 and 18, which I find to be an old stake, 2ins. squared near one end, 2ft. long, marks nearly oblitered, weather beaten. I re-establish cor. at same point as follows for cor. of secs. 7 and 18, T.43 S., R.1 E. as follows:
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 7 and 18, with brass cap marked T43S | S7 / S18 | R1E 1917
	dig pits, 24x24x12 ins., in both secs., NE & SE. 6ft. dist.
	Land broken and rolling; drainage to SW------.
	Soil, rocky, with red clay on S. 20chs.; sandy and gravelly loams on remainder.

Chains	
	Timber, scattering cedar and pinon on S. 20 chs.
	Undergrowth, sage, greasewood, shadscale and oose.
	Good grazing land on N. 56 chs.

	To more definitely verify the old cor. of secs. 7,12,13
	and 18, which I re-established. I retraced N. from cor.
	North, retracing bet. secs. 7 and 12.
	Over gently rolling, open land, through short undergrowth
40.07	Fall 17½ lks. W. of the original ¼ sec. cor., a sandstone
	16x10x4 ins., firmly set, mkd. ¼ on W. face, and witnesse
	by 2 stones; I re-establish cor. for ¼ of sec.7, T.43S.,
	R.1 E. at same point as follows:
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in
	ground, alongside of stone, for ¼ cor. of sec. 7 only,
	with brass cap marked
	¼ | S7 1917
	dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.
	I turn stone so that the mark ¼ faces to E.
	True course and dist. of this ½ mile is N.0°15'E.,40.07ch
	Thence, North.
43.74	A northing of 40.00 chs. from the closing cor. of secs.
	12 and 13.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in
	ground, for ¼ cor. of sec. 12, T.43 S.,R.1 W., with bra
	cap marked
	¼ | S12 1918
	dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.
	Note: This cor. established by me, Nov. 12, 1918.
	Land, gently rolling; soil, sandy and gravelly loams.
	Undergrowth, sage, greasewood, oose and grass.
	No timber. Good grazing land.

Chains	
	From true cor. point for secs. 1,2,35 and 36 on S. bdy. of tp.
	Thence,
	N. 0°01' W., bet. secs. 35 and 36.
	Over very rough and broken mountainous land, through few scattered cedars and short unndergrowth.
	Asc. abruptly S. face, over barren red sandstone ledge/
3:30	Top of ledge, 90 ft. above cor. point, brs. N.70°W. and SE.; thence more gradual ascent along top of mountain.
10.00	Top of ascent and high lone mountain, 160 ft. above cor., top extends W. about 10 chs., and brs. S.80°E.
10.50	Begin steep descent on N. slope.
13.60	Top of red sandstone ledge or barren rock slope, brs. E. and W.; abrupt descent over N. face.
22.60	Base of ledge, 555 ft. below top of mountain, brs. N.70°E. and S.70°W.; thence over loose sandy land, sloping E.
34.50	Small sandy ravine, 15 ft. deep, course N.70°E.
	Asc. 15 ft. to
40.00	On a gentle SE. slope.
	Set an iron post ,3ft. long. 1 in. dia., 8 ins. in ground to bedrock, and 18ins. in mound of stone, for ¼ sec. cor., with brass cap marked
	¼ S35 | S36 1917 from which
	A cedar, 6 ins. diam., bears S.45°E., 184 lks. dist., marked ¼ S36 BT
	A cedar, 8 ins. diam., bears N.16°W., 118 lks. dist., marked ¼ S35 BT
42.30	Begin abrupt descent towards Paria river, over ledges, brs. N.70°W. and S.70°E.
44.70	Top of 140 ft. perpendicular wall and right bank of Paria river; stream in bottom, 40 lks. wide, 2 ft. deep, swift current, 240 ft. below ¼ cor., course S.80°E.
49.20	Left bank and canyon wall, same height, brs. N.70°W., and S.80°E.; thence gradually asc. along top of rocky bench.

Chains

60.00 Top of ascent, 200 ft. above stream, brs. N.80°E. & S.80°

61.00 Left canyon wall, 200 ft. high, brs. N.60°E and S.80°W.

Abrupt descent.

65.85 Center of bottom of Paria river canyon, 2 chs. wide,

stream, 60 lks. wide, 1½ ft. deep, course SW.

Asc. abruptly over ledges and barren sandstone bedrock.

73.32 Impossible to continue further on line, on account of

steep sloping ledges; therefore proceed as follows:

Thence, N. 15°00' E., for 6.92 chs.; thence West, 1.07

chs. dist. to point which is 72 lks. dist. E. of

true cor. point at 80.00 chs., where I

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in

mound of stone, over cross cut in bedrock, 5 ft. base,

for witness cor. of secs. 25,26,35 and 36, with brass

cap marked

	T43S	R1W
WC	S26	S25
	S35	S36

1917 from which

Cut cross (X) B.Ø. in ledge, bears South, 15 lks. dist

Cut cross (X) B.O. in ledge, bears S.45°W., 12 lks. dis

Cut cross (X) B.O., in ledge, bears N.45°W., 9 lks. dist

True cor. point, W. 72 lks. dist. on abrupt E. face on

smooth ledge, is inaccessible.

This W.C. stands on a small rock flat, 185 ft. above riv

and is very difficult to reach from any direction.

80.00 True point for cor. of secs. 25, 26, 35, and 36; cor. not set.

Land, rough, broken mountainous; S. ½ mile crossed a

high lone sandstone mountain; N. ½ mile follows along

Paria river canyon.

Soil, mostly red sandstone bedrock, with some loose sand

and cobble rock scattered on surface.

Timber, few scattered scrub cedars.

Undergrowth, sparse greasewood, cactus and grass.

Line exceptionally difficult to survey.

Chains	
	East, on a random line, bet. secs. 25 and 36; counting distance from true cor. point.
40.00	Set temp. ¼ sec. cor.
80.08	Intersect E. bdy. of tp., 28 lks. S. of cor. of secs. 25 and 36.
	Thence
	S. 89°48' W., on true line, bet. secs. 25 and 36.
	Over top of gently rolling, sandy bench land, through few scattered cedars; short undergrowth.
20.00	Edge of bench and top of sandstone break, brs. NW. & SE.
	Desc. along broken, rocky nearly S. slope.
26.45	Top of main ledge break, brs. NW. and SE.; desc. abruptly.
34.20	Base of main ledge at bend, 215 ft. below bench, brs. about W. and SE.; thence along near base of break, over rocky land, sloping S.
40.04	On rocky S. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, on bedrock, 6 ft. base, for ¼ sec. cor., with brass cap marked
	¼ S25 / S36 / 1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	No suitable trees within limits.
	Asc. abruptly over ledges, 120 ft. to
47.80	Top of main ledge, brs. N.70°E. and S.70°W.; continue ascent of 30 ft. to
50.45	Top of high sharp spur or point of break, projects SW. 4 chs. to end.
	Desc. abruptly over W. face of break.
51.75	Top of main sandstone ledge, brs. N. and S.; desc.
56.65	Base of ledge and break, 255 ft. below spur, brs. N & S.
	Thence gradually desc. over bocky land, sloping W.

Chains	
68.50	Cattle trail, from river bottom, passes through narrow cleft of ledge to S. of line, trail brs. NW. and S.30°E
	Note: This is the last and only point that stock can reac the river below sec. 14.
70.95	Descend abruptly into river, over ledge.
75.30	Left edge of Paria river bottom, 510 ft. below high spur; stream, 40 lks. wide, 2 ft. deep, course S. to SW.; cattle trail, takes out, 50 lks. N. of line.
77.15	Right bank of river, a perpendicular wall, 120 ft. high, brs. N. and S.
78.00	Thence gradual ascent to
79.36	The W.C. of secs. 25,26,35 and 36.
80.03	True point for cor. of secs. 25,26,35, and 36.
	E. 20 chs. gently rolling top of sandy bench; remainder rough mountainous of breaks and ledges.
	Soil, mostly sandstone bedrock, and ledges on rough portions; deep, loose sand on bench.
	Timber, few scattered scrub cedars.
	Undergrowth, sparse white sage, oose and grass.

	N. 0°01' W., bet. secs. 25 and 26, on offset line, from the W. C. of secs. 25,26,35 and 36, which is 72 lks. E. of true point.
	Over rough and broken mountainous land, near bottom of Paria river canyon; along ledgy E. slope; descending.
30.00	Bend of Paria river, 40 lks. wide, 2 ft. deep, from NE. ,course S.30°E., 130 ft. below W.C.
	Thence along W. edge in bottom of canyon.
40.00	Measure west 41 lks. dist. to foot of 75 ft. nearly perpendicular wall, bearing N.10°E. and S.10°W.; as true point for ¼ sec. cor., is inaccessible; therefore at this point, which is 31 lks. E. of true point.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for witness ¼ sec. cor., with brass cap marked

Chains	
	WC S26 | S25 (1/4) 1917 from which
	E. face of wall, marked cross X B.O., bears West, 1 lk. dist.; 5 ft. above post.
	No other accessories available; pits impracticable, deep, loose sand.
	Cor. situated on sandy ground, about 20 ft. above bed of river and 2½ chs. W. of same.
	Continue on offset line, 72 lks. E. of true line; along W. edge of bottom canyon.
58.00	Recross Paria river, 40 lks. wide, 2 ft. deep, swift current, course S.30°E.; leave bottom and asc. abruptly over barren sandstone slopes and ledges.
65.70	High point on W. slope.
72.75	Depression on W. slope, drains SW.; asc. abruptly main ledge or wall of canyon.
76.60	Top of main ledge and abrupt ascent, 190 ft. above base, brs. E. for 7 chs., thence S., and generally SW. to W.
	Continue gradual ascent.
78.35	Top of ascent, 400 ft. above river, brs. E. and W., thence along W. slope.
80.00	Measure west 72 lks. dist. to true line, where I
	Set an iron post, 3 ft. long, 2 ins. dia., 10 ins. in ground to bedrock, and 14 ins. in mound of stone, 4ft. base, for cor. of secs. 23,24,25 and 26, with brass cap marked
	T43S | R1W S23 | S24 S26 | S25 1917 from which
	A cedar, 10 ins.diam., bears N.30¾°E., 284 lks.dist., marked T43S R1W S24 BT
	A cedar, 8 ins.diam., bears S.52½°E., 97 lks.dist., marked T43S R1W S25 BT
	A cedar, 8 ins.diam., bears N.82°W., 134 lks.dist., marked T43S R1W S23 BT
	No suitable tree in sec. 26.
	Cor. situated on W. slope, at head of small draw, course SW.

Chains	
	Land, rough broken mountainous; line passes along bottom of Paria river canyon on S. 58 chs., and over N. breaks on remainder. The N. sec. cor. is at edge of the canyon.
	Soil, sandstone bedrock and ledges, with sandy patches; river bed is gravelly.
	Timber, few scattered cedars near N. end on mile.
	Undergrowth, scattered greasewood, rabbit-brush and cact
	Line very difficult to chain.

	N. 89°48' E., on random line, bet. secs. 24 and 25.
40.00	Set temp. ¼ sec. cor.
80.12	Intersect E. bdy. of tp., 5 lks. S. of the cor. of secs. 24 and 25.
	Thence,
	S. 89°46' W., on true line, bet. secs. 24 and 25.
	Over rolling, sandy bench land, sloping W., through few scattered cedars, and short undergrowth.
40.06	On a gentle SW. exposure, 100 ft. below sec. cor.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S24/S25 1917, from which
	A cedar, 10 ins. diam., bears N.19½°W., 323 lks. dist., marked ¼ S24 BT
	and dig pits, 18x18x12 ins., E. and W. of post, 3ft. dis
	No trees within limits in sec. 25.
50.00	Thence over land, with NW. exposure.
78.75	Top of white sandstone rim rock, 30 ft. high, extends N. 1 ch., and brs. SE.; desc. 40 ft. to
80.12	The cor. of secs. 23,24,25 and 26.
	Land, rolling bench, having a general slope to W; drainage to NW. on W. 30 chs., and to SW. on remainder.
	Soil, deep, loose sand, with some rocky on E. and W. ends of mile.

Chains	
	Timber, few scattered cedars.
	Undergrowth, greasewood, rabbit-brush, grass and cactus. Good grazing land.
	N. 0° 01' W., bet. secs. 23 and 24.
	Over rolling and broken top of bench land, through scattering cedars and short undergrowth.
6.00	Depression on W. slope, 20 ft. below cor., drains W.
14.00	Thence gradually desc. nearly smooth N. and NW slopes.
38.10	Stock trail, brs. N.30°W. and S.30°E.
40.00	On gentle N. slope, 25 ft. below sec. cor., and on a well defined stock trail, bearing NW. and SE.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S23 | S24
	1917 from which
	A cedar, 20 ins.diam.,bears N.15°E., 274 lks.dist., marked ¼ S24 BT
	A cedar, 16 ins.diam.,bears S.88°W., 239 lks.dist., marked ¼ S23 BT
	Desc. N. slope, 30 ft. to
42.15	A main ravine, 50 lks. wide, course NW. for 1 ch., thence N. 6 chs., thence to W. about 10 chs. to breaks of Paria canyon; asc. general SW. slope.
52.15	Base of white sandstone rim rock, brs. E. and NW.
54.00	Top of same, 45 ft. above base, brs. SE., and extends W. 1 ch. to end.; thence over rolling and broken land facing to SW., with patches of white sandstone bedrock.
62.30	Draw, 50 ft. deep, course S.70°W.
69.20	Low sand ridge, brs. E. and W.
74.95	Draw, 30 ft. deep, course S.70°W.
80.00	On gentle sandy W. slope.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 13,14,23 and 24, with brass cap marked

Chains	
	T43S | R1W S14 | S13 S23 | S24 1917 from which
	A cedar, 18 ins.diam.,bears S.67°E., 199 lks. dist. marked T43S R1W S24 BT
	A cedar, 14 ins.diam.,bears S.36½°W., 117 lks.dist. marked T43S R1W S23 BT
	A cedar,10 ins.diam.,bears N.81°W., 182 lks.dist., marked T43S R1W S14 BT
	No trees within limits in sec. 13, and pits impracticable deep, loose sand.
	Land, rolling and low broken bench; having a general W. and NW. exposure on S. 42 chs., and to SW. on remain
	Soil, deep, loose sand, some gravelly and rocky, with scattered patched of bedrock on N. ½ mile.
	Timber, scattered cedars.
	Undergrowth, white sage, grass and oose.
	Good grazing land.

	N. 89°46' E., on random line, bet. secs. 13 and 24.
40.00	Set temp. ¼ sec. cor.
80.10	Intersect E. bdy. of tp., 5 lks. N. of the cor. of secs. 13 and 24.
	Thence,
	S. 89°48' W., on true line, bet. secs. 13 and 24.
	Gradually desc. general NW. slope, over broken land, through considerable timber of cedar and pinon.
13.75	Draw, 20 ft. deep, course NW.
22.30	Main ravine and base of descent,125 ft. below sec. cor., course SW.; thence asc. along SE slope over series of rim ledges, 140 ft. to
40.05	Set an iron post, 3 ft. long, 1 in. dia., 20 ins. in ground to bedrock, and 6 ins. in mound of stone, for ¼ sec. cor., with brass cap marked
	¼ S13 / S24 1917 from which

Chains	
	A cedar, 10 ins. diam., bears N.25°E., 220 lks. dist., marked ¼ S13 BT
	No trees within limits in sec. 24.
	and raise a mound of stone, 2ft. base, 1½ ft. high, N. of cor.
55.00	Top of ascent, 30 ft. above ¼ cor., brs. NE. and SW. Gradually desc. NW. slope of broken top of bench.
64.10	Top of ledge and rim, 50 ft. high, brs. SE., and NE. for 5 chs., thance to W. and NW.; desc. abruptly over red sandstone ledges.
68.00	Leave red, enter white sandstone formation., brs. N. & S.
72.90	Draw, near head, 35 ft. deep, and 170 ft. below top of ledge at 64.10 chs., course SW.; thence gently desc.
80.10	The cor. of secs. 13, 14, 23 and 24.
	Land, broken and mountainous; drainage to SW.
	Soil, rocky of red and white sandstone formation, clay and sandy; 3rd and 4th rates.
	Timber, scattered cedar and pinon on mile.
	Undergrowth, short sparse white sage, oose, greasewood and grass.

	N. 0°01' W., bet. secs. 13 and 14.
	Ascending over rolling and broken land, facing to SW., through scattered cedar and pinon timber; short undergrowth.
4.45	Draw, near head, course SW.
7.00	Enter broken rim ledges, brs. NW. and SE.
12.50	Top of the main ledge, 60 ft. high, brs. N.80°W and SE.
14.00	Top of ascent and bench land, 175 ft. above sec. cor., brs. N.80°W. and SE.; thence over broken bench land, facing nearly W.
22.35	Gully, 25 ft. deep, course W.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 8 ins. in ground to bedrock, and 18 ins. in mound of stone, 5 ft. base, for ¼ sec. cor., with brass cap marked

Chains	
	S14 | ¼ S13 1917 from which
	A cedar, 10 ins.diam., bears S.43½°E., 134 lks. dist., marked ¼ S13 BT
	A cedar limb, 12 ins.diam., bears S.37°W., 128 lks.dis marked ¼ S14 BT
66.40	Draw, 10 ft. deep, course NW for 10 chs. to main ravine, course SW.
76.20	Well defined stock trails, brs. NE. and SW.
79.50	Shallow ravine, course SW.
80.00	Set an iron post, 3 ft. long, 2 in. dia., 24 ins. in ground, for cor. of secs. 11,12,13 and 14, with brass cap marked
	T43S | R1W S11 | S12 S14 | S13 1917 from which
	A cedar, 8 ins.diam., bears N.50½°E., 76 lks. dist., marked T43S R1W S12 BT
	A cedar, 14 ins.diam., bears S.77½°E., 130 lks. dist., marked T43S R1W S13 BT
	A cedar, 12 ins., diam., bears S.58°W., 342 lks.dist., marked T43S R1W S14 BT
	A cedar, 30 ins.diam., bears N.37½°W., 302 lks.dist., marked T43S R1W S11 BT
	Land, rolling and broken; general exposure and drainage to SW. and W.
	Soil, rocky, gravelly and clay.
	Timber, scattering cedar and pinon.
	Undergrowth, short sage, greasewood, oose and grass.
	Grazing land.
	N. 89°48' E., on random line, bet. secs. 12 and 13.
40.00	Set temp. ¼ sec. cor.
80.08	Intersect E. bdy. of tp., 3.74 chs. N.0°15'E., of the c of secs. 7 and 18; at point of intersection
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for closing cor. of secs. 12 and 13, with bra cap marked

Chains	
	T43S CC S12 | T43S S13 | S7 R1W | R1E 1917
	dig pits, 24x18x12 ins., N. and S., 3 ft. and W. 7 ft. dist. of post.
	Thence
	S. 89°48' W., on true line, bet. secs. 12 and 13.
	Over gently rolling, open bench land, through short undergrowth.
2.80	Trail, brs. N.80°W. and S.80°E.
40.04	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S12 / S13 1917
	dig pits, 18x18x12 ins., E. and W. of post, 3ft. dist.
45.00	Leave top of bench, begin descent over W. slope; brs, N. and S.
50.00	Enter scattering cedar timber, brs. N. and S.
74.90	Stock trails brs. N.70°E. and SW.
75.60	Shallow ravine, near head, course SW.
80.08	The cor. of secs. 11,12,13 and 14, 110 ft. below top bench.
	E. 45 chs. gently rolling top of bench; remainder rolling land, sloping W.
	Soil, loose sand, sandy and gravelly loams.
	Undergrowth, short, sage, greasewood and grass.
	Timber, some scattered cedar on W. 30 chs.
	Good grazing land.

	N. 0°01' W., on random line, bet. secs. 11 and 12.
40.00	Set temp. ¼ sec. cor.
76.92	Fall 18 lks. W. of the original cor. of secs. 1,2,11 and 12, which I find to be an old cedar stake, 2 ins. dia., squared at top, 40 ins. long, lying on the ground, showing faint traces of 5 notches on one edge; no other

Chains

marks visilbe, too weather worn; also plainly showing ax marks on both ends; unwitnessed; I re-establish cor at same point as follows:

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 1,2,11 and 12, with brass cap marked

T43S	R1W
S2	S1
S11	S12

1917 from which

A cedar limb, 7 ins.diam., bears S.36°E., 146 lks.dist marked T43S R1W S12 BT
A cedar, 10 ins., diam., bears S.24°W., 294 lks.dist., marked T43S R1W S11 BT
A cedar, 8 ins.diam., bears N.80½°W., 150 lks.dist., marked T43S R1W S2 BT

No trees within limits in sec. 1, and pits impracticable deep, loose sand; cor. stands on top of ridge, E. & W.

Thence,

S. 0° 07' W., on true line, bet. secs. 11 and 12.

Over rolling and hilly land, through few scattered cedar and short undergrowth.

Desc. 50 ft. to

6.00 Wash, 20 lks. wide, 3 ft. deep, in ravine, course W.

Asc. broken general N. slope.

16.75 Ravine, 30 ft. deep, at bend, from SW. to NW., and at junction with ravine from SE.

36.40 Ravine, 25 ft. deep, course N.30°W.

36.92 On steep N. slope, 135 ft. above ravine at 6 chs.

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

¼

S11 | S12

1917 from which

A cedar, 14 ins.diam., bears S.31½°E., 162 lks.dist. marked ¼ S12 BT
A cedar, 12 ins.diam., bears N.34°W., 67 lks.dist., marked ¼ S11 BT

Continue ascent.

48.00 Top of ascent, 75 ft. above ¼ cor., brs. NW. and E., and

Chains	
	leave rough broken land; continue over rolling bench land, facing S.; desc. 60 ft. to
76.92	The cor. of secs. 11,12,13 and 14.
	Land, rough, broken and hilly on N. 48 chs., and rolling on remainder; drainage to W.
	Soil, deep, loose sand, sandy and gravelly loams, with white sandstone outcrops on N. ½ mile.
	Timber, very scattering cedars.
	Undergrowth, sage, greasewood, oose and grass.
	Grazing land.

	From the cor. of secs. 2,3,34 and 35 on S. bdy. of tp.
	Thence
	N. 0° 01' W., bet. secs. 34 and 35.
	Gradually ascending rolling, sandy bench, towards base of high break, through scattering cedar and pinon timber and short undergrowth.
12.00	Base of high sandstone break, 50 ft. above sec. cor., general bearing E. and W.; asc. abruptly S. face over red sandstone ledge and smooth bedrock, 335 ft. to
22.10	Top of main ledge and break, brs. E. and W.; continue ascent over broken, rocky S. slope.
36.15	Base of white sandstone rim ledge, brs. E. and extends W. 5 chs. to end; abrupt ascent, 75 ft. to
38.35	Top of ledge, brs. E. and W.
40.00	On steep S. slope among white broken sandstone ledges and bedrock and 210 ft. above top of main ledge at 22.10chs.
	Set an iron post, 3 ft. long, 1 in. dia.; 8 ins. in ground to bedrock, and 18 ins. in mound of stone, 4 ft. base, for ¼ sec. cor., with brass cap marked
	---
	¼
	S34 | S35
	1917 from which
	A cedar, 10 ins.diam.,bears S.29°E., 165 lks.dist., marked ¼ S35 BT

Chains	
	A cedar, 20 ins.diam.,bears S.79°W., 92 lks.dist., marked ¼ S34/BT
	Continue ascent along S. and SW. slopes.
42.35	Top of red sandstone rim ledge, 40 ft. high, brs. E. and extends NW. for 6 chs. to end; this rim follows around the high table butte to E. of line.
47.30	Top of ascent, 155ft. above ¼ cor., on W. slope of a high table butte, brs. E. 4 chs. to top and descends W the top extends E. about 25 chs.; is about 10 - 15 chs wide; butte stands on bench land.
	Desc. broken NW. and N. slopes.
53.00	Rim rock, 40 ft. high, brs. E., and extends SW for 6chs.
64.35	Base of steep descent and table butte, 250 ft. below top brs. E. and W.; thence more gradual descent.
74.50	Leave broken land and all timber, also rocky ground, brs. E. and W.; desc. smooth N. slope.
80.00	On a N. slope, 320 ft. below top at 47.30 chs.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 26,27,34 and 35, with brass cap marked

T43S	R1W
S27	S26
S34	S35

1917

dig pits, 18x18x12 ins., in each sec., 5½ ft. dist.

No suitable trees within limits.

Land, rough broken mountainous and rolling bench lands; S. exposure on S. 47 chs., and to N. on remainder.

Soil, fine loose red sand and sandstone bedrock.

Timber, scattered cedar and pinon on S. 74½ chs.

Undergrowth white sage, greasewood, oose and grass.

East, on a random line, bet. secs. 26 and 35.

40.00	Set temp. ¼ sec. cor.
80.74	Fall 16 lks. N. of the W. C. of secs. 25.26.35 and 36, which is 72 lks. E. of true cor. point.

Chains	
	Thence,
	N. 89°53' W., on true line, bet. secs. 26 and 35, counting dist. from true cor. point.
	Abrupt ascent E. face over red sandstone ledges and barren rock slopes, forming W. side of Paria river canyon.
10.50	Base of main ledge, brs. N.30°E. for 3 chs., thence N., and SW.
11.25	Top of same, 200 ft. above base, brs. same as base.
14.00	Edge of break and canyon, 475 ft. above cor., brs. NE. and SW.; continue gradual ascent over bench land, through scattering cedar timber; sandy soil.
36.40	Top of ascent on low ridge, 115 ft. above edge of canyon, brs. NE. and SW.
40.01	On a gentle SW. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked ¼ S26 / S35 1917 from which
	A cedar, 12 ins. diam., bears S.25°E., 150 lks. dist., marked ¼ S35 BT
	A cedar, 8 ins. diam., bears N.57°E., 118 lks. dist., marked ¼ S26 BT
	Thence over rolling land, having a general N. slope.
45.85	Stock trail, brs. NW. and SE.
49.35	Gully, 25 ft. deep, course N.10°E.
56.50	Gully. 40 ft. deep, course N.30°E.; heads SW. about 10chs. under table butte.
71.95	Gully, 35 ft. deep, course NE.
80.02	The cor. of secs. 26,27,34 and 35, 60 ft. above ¼ cor.
	E. 14 chs. W. side of Paria canyon, over high ledge and exceptionally difficult to survey; remainder rolling and broken top of bench land, facing N. and NE.
	Soil, on the bench land, deep, loose sand, and some sandy and gravelly loams; remainder sandstone bedrock.
	Timber, scattered cedars on W. 66 chs.
	Undergrowth, sage, oose and grass on bench.

Chains	
	N. 0°01' W., bet. secs. 26 and 27.
	Gradually descending over rolling bench land, facing N., through short undergrowth.
35.00	Base of descent and swale, 105 ft. below sec. cor., drains E.; gentle asc. S. slope.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S27 | S26 1917 from which
	A cedar, 12 ins. diam., bears N.59¾°E., 257 lks. dist., marked ¼ S26 BT
	and dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.
	Note: A sandstone pillar, about 50 ft. high, at E. end of the table butte, brs. S.18°42' E.
44.10	Low flat ridge, 15 ft. above ¼ cor., brs. N.60°E. and S.60°W.; thence gradual descent on N. slope.
80.00	On gentle NE. slope, 145 ft. below ridge at 44.10 chs.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 22,23,26 and 27, with brass cap marked
	T43S | R1W S22 | S23 S27 | S26 from which 1917
	A cedar, 10 ins. diam., bears N.31½°E., 658 lks. dist., marked T43S R1W S23 BT
	A cedar, 14 ins. diam., bears S.56½°E., 414 lks. dist. marked T43S R1W S26 BT
	dig pits, 18x18x12 ins., in each sec., 5½ ft. dist.
	No trees within limits in remaining secs.
	Land, gently rolling bench land, general exposure and drainage to N. and NE.
	Soil, fine, loose sandy and gravelly loams.
	Undergrowth, short sage, greasewood, oose and grass.
	Timber, few scattered cedars on N. ½ mile.

Chains	
	S. 89°53' E., on random line bet. secs. 23 and 26.
40.00	Set temp. ¼ sec. cor.
42.33	Near edge of Paria river canyon, over which I cannot chain therefore triangulate as follows:
	Set a flag on E. side of canyon, on line, then, with telescope directed at flag, turn an angle of 90° towards the N. and measure a base line, 10.10 chs. dist., to point whence flag on E. side, subtends an angle of 69°29'; thence dist. is tan. 69°29' x base or 2.67225 x 10.10 = 26.99 chs., which added to 42.33 makes
69.32	To triangulation point.
80.02	Intersect the cor. of secs. 23,24,25 and 26.
	Thence
	N. 89°53' W., on true line, bet. secs. 23 and 26.
	Over broken land, through scattered cedar and short undergrowth.
10.70	To point of triangulation; edge of deep canyon and top of high ledges, brs. general NE. and SW.; thence by triangulation across Paria river and canyon about 400 ft. deep, course S. to SE.
37.69	To triangulation point and E. side of canyon, brs. about N. and SE.
40.01	On a steep, sandy N. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	S23 / S26 / 1917 from which
	A cedar, 12 ins. diam., bears S.56½°W., 254 lks. dist. marked S26 BT
	No trees within limits in sec. 23; pits impracticable deep, drifting sand.
	Thence over broken and rolling bench, facing nearly N.
61.10	Draw, 40 ft. deep, course NE.

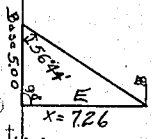
Chains	
80.02	The cor. of secs. 22,23,26 and 27.
	Land, rolling bench on W. 43 chs. and E. 10.70 chs., remainder is Paria river canyon.
	Soil, deep, loose sandy and rocky of sandstone gormation.
	Timber, very scattered cedars.
	Undergrowth, short sage, greasewood, oose and grass.

	N. 0°01' W., bet. secs. 22 and 23.
	Over rolling bench land, through very scattering cedar timber and short undergrowth.
	Gradually desc. N. slope, 70 ft. to
24.50	Base of descent and swale, course N.30°E.; gently asc.
40.00	On gentle SE. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S22 | S23 1917 from which
	A cedar, 12 ins. diam., bears S.26°E., 254 lks. dist., marked ¼ S23 BT
	A cedar, 14 ins. diam., bears S.69¼°W., 146 lks. dist., marked ¼ S22 BT
51.00	Top of ascent, 25 ft. above ¼ cor., on E. slope, brs W.
	Descend gradual NE. slope.
62.00	Top of white sandtone outcrop or rim rock, brs. NW & SE.
67.00	Base of same, 120 ft. below top, brs. same; continue descent.
80.00	On a NE. slope at top of S. side of ravine, 235 ft. below 51 ch. point.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 14,15,22 and 23, with brass cap marked
	T43S | R1W S15 | S14 S22 | S23 1917 from which

Chains	
	A cedar, 9 ins. diam., bears N. 11¾°E., 62 lks. dist., marked T43S R1W S14 BT
	A cedar, 10 ins. diam., bears S. 58¼°E., 155 lks. dist., marked T43S R1W S23 BT
	A cedar, 10 ins. diam., bears S. 11¾°W., 141 lks. dist., marked T43S R1W S22 BT
	A cedar, 10 ins. diam., bears N. 56°W., 201 lks. dist., marked T43S R1W S15 BT
	Land, rolling and broken bench, having a general NE. exposure and drainage.
	Soil, mostly fine, deep, loose sandy and gravelly loams, with some scattered outcroppings of sandstone bedrock.
	Timber, very scattered cedar.
	Undergrowth, sage, greasewood, oose and grass.
	Good grazing land.

	S. 89°53' E., on random line, bet. secs. 14 and 23.
15.30	To W. rim of Paria river canyon, over which I cannot chain; therefore triangulate as follows:
	Set a flag on line, on E. edge of canyon, then, with telescope directed at said flag, turn an angle of 90° towards the N. and measure a base line, 5.00 chs. dist., to point whence flag on E. side subtends an angle of 56° 44'; therefore dist. is tan. 56°44' x base or 1.52429 x 5.00 = 7.62 chs., which added to 15.30 chs. makes
22.92	To triangulation point on E. side of canyon.
40.00	Set temp. ¼ sec. cor.
80.02	Intersect N. and S. line, 2 lks. N. of cor. of secs. 13,14,23 and 24.
	Thence

	N. 89° 52' W., on true line, bet. secs. 14 and 23.
	Over rolling and broken bench land, facing SW., through scattered cedar timber and short undergrowth.
11.40	Small ravine, 8 ft. deep, course SW.
21.50	Small ravine, 20 ft. deep, course SW.
33.00	Leave most of rocky land, enter more sandy, brs. N & S.
40.01	On a gentle SW. slope, 85 ft. below sec. cor.



Chains	
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked S14 / ¼ / S23 / 1917 from which
	A cedar, 20 ins. bears N.70¼°E., 616 lks. dist., marked ¼ S14 BT
	A cedar, 20 ins. diam., bears S.32½°W., 515 lks. dist., marked ¼ S23 BT
51.50	Top of rim rock, 35 ft. high, brs. NW. and S.; thence more abrupt descent towards rim of canyon.
55.90	Well defined stock trail, brs. N.20°W. and S.20°E.
57.10	To point of triangulation and E. bank of Paria river, a perpendicular sandstone wall, 135 ft. high, brs. SW. for 4 chs. thence to S., and N.20°W.
	Thence across canyon by triangulation; Pâria river in bottom, 50 lks. wide, 2 ft. deep, course SW. to SE.
64.72	Right wall of canyon, 140 ft. high, brs. N. and SW.; thence gradually asc. broken bench land.
68.60	Narrow rocky gulch, 100 ft. deep, course SE. to Paria riv
79.00	Small draw, 20 ft. deep, course NE.
80.02	The cor. of secs. 14,15,22 and 23, 50 ft. above rim of canyon.
	Land, rolling and broken bench land, draining into river.
	Soil, loose, fine sandy loam, with outcroppings of sandstone bedrock and ledges.
	Timber, very scattered cedars.
	Undergrowth, short sage, greasewood and oose.
	Fair grazing land.

	N. 0° 01' W., bet. secs. 14 and 15.
	Over broken land, sloping E. towards Paria river, through very scattered cedar timber and short undergrowth.
4.95	Wash, 20 lks. wide, 3 ft. deep, in bottom of gulch, 50ft. deep, course SE.
20.10	Well defined stock trail, brs. NE. and SW.
21.55	Rim rock, 30 ft. high, brs. NW. and SE.

Chains	
30.85	Gully, 20 ft. deep, course E.
32.20	Right bank of Paria river, 45 ft. high, brs. NW. & SE. thence across bottom.
37.50	Paria river, 60 lks. wide, 1½ ft. deep, swift current, course SE.
39.60	Left bank, 20 ft. high, brs. NW. and SE.; gradually asc.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked

¼
S15 | S14
1917 from which

A cedar, 16 ins.diam., bears N.10°E., 352 lks.dist., marked ¼ S14 BT
A cedar, 12 ins.diam., bears N.0½°W., 485 lks.dist., marked ¼ S15 BT

Thence along broken land, facing W. to river, cut by gulches and rim ledges.

46.00	Stock trails, brs. E. and W.
50.06	Base of sandstone ledge, brs. S.80°E. and NW.; asc.
55.00	Top of same, 65 ft. above base, brs. same.
62.70	Bottom of gulch, 80 ft. deep, 5 chs. wide, course W.
72.30	Bottom of gulch, 70 ft. deep, 4 chs. wide, course W.
79.00	Bottom of gulch, 50 ft. deep, near mouth, course W.
80.00	True point for sec. cor., falls on steep ledgy S. slope cut cross (X) for exact cor. point; impossible to set cor. at this point; therefore at a point 45 lks.N.09°19'E.
80.45	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in mound of stone, on bedrock, for witness cor. of secs. 10,11,14 and 15, with brass cap marked

T43S | R1W
S10 | S11
S15 | S14
WC
1917 from which

A cedar, 10 ins.diam., bears N.11½°E., 133 lks.dist., marked T43S R1W S11 BT WC
A cedar, 8 ins.diam., bears N.30¼°W., 70 lks.dist., marked T43S R1W S10 BT WC

No trees within limits in remaining secs., and other accessories not available.

Chains	
	Land, broken bench; facing to E. on S. portion and to W. on northern part of mile; drainage into Paria river which flows about SE.
	Soil, loose sand and sandtone bedrock and ledges.
	Timber, very scattered cedars.
	Undergrowth, short sage, greasewwod, oose and weeds.
	From true cor. point for secs. 10, 11, 14, and 15 S. 89°52½' E., on random line, bet. secs. 11 and 14.
40.00	Set temp. ¼ sec. cor.
80.02	Intersect N. and S. line, 12 lks. S. of cor. of secs. 11, 12, 13 and 14.
	Thence,
	N. 89°57' W., on true line, bet. secs. 11 and 14.
	Gradually descending over broken land, facing SW., through scattered cedars and short undergrowth.
40.01	On a gentle W. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked ¼ S11 / S14 1917 from which
	A cedar, 8 ins. diam., bears N.12°E., 73 lks. dist., marked ¼ S11 BT
	A cedar, 10 ins. diam., bears S.37½°E., 218 lks. dist., marked ¼ S14 BT
44.00	Head of gulch, course S.70°W.
46.70	Top of rim ledge, 40 ft. high, brs. N.70°W. and SE.
69.55	Rim ledge, 35 ft. high, brs. N.80°E. and S.70°W.
80.02	The true point for cor. of secs. 10, 11, 14 and 15, 150 ft below ¼ sec. cor.
	Land, broken; exposure and drainage to SW.
	Soil, loose sand, gravelly and rocky.
	Timber, scattering cedars.
	Undergrowth, short sage, greasewood, oose and weeds.
	N. 0°01' W., on random line, bet. secs. 10 and 11.

Chains	
	from true cor. point.
37.00	Make diligent search, failing to find any trace of old ¼ sec. cor.
77.10	Fall 45 lks. W. of the cor. of secs. 2,3,10 and 11.
	Thence,
	S. 0°19' W., on true line, bet. secs. 10 and 11.
	Gently descending over rolling bench land, facing nearly W., through scattered cedars and short undergrowth.
17.00	Edge of bench and rim ledge, 20 ft. high, brs. NW. for 10 chs. thence N., and SE., begin descent over broken land, 35 ft.
23.25	Top of ledge and N. side of gulch, brs. NE. and SW.; descend abruptly
28.10	Base of ledge, 135 ft. below top, brs. NE. and SW.; thence gradual descent ,25 ft. to
28.50	Bottom of gulch, course SW.; asc. N. slope, 110 ft. to
37.10	On N. slope and S. edge of gulch.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec. 11 only, with brass cap marked
	¼ S11 1917 from which
	A cedar, 12 ins.diam.,bears N.2¼°E., 60 lks.dist., marked ¼ S11 BT
	No other trees within limits; pits impracticable, loose sand.
40.00	On gentle W. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec. 10 only, with brass cap marked
	¼ S10 1917 from which
	A cedar, 6 ins.diam.,bears S.26¼°W., 242 lks.dist., marked ¼ S10 BT A cedar, 12 ins.diam.,bears N.7°W., 211 lks.dist., marked ¼ S10 BT

Chains	
41.00	Note: Center of an old corral on W. side of Paria river, brs. N.70¾°W., about ¾ of mile.
42.00	Begin descent into gulch, brs. E. and W.
42.30	Bottom of gulch, 60 ft. deep, course W.; asc.
53.60	Top of S. side gulch, brs. E. and W.
55.30	Desc. into gulch.
57.60	Bottom of rocky gulch, 70 ft. deep, course W.; asc.
62.00	Top of S. side same.
65.00	Begin desc. over S. slope, over broken ledges, 95 ft. to
76.65	The W.C. of secs. 10,11,14 and 15, which is 45 lks.N.0°19 of true cor. point.
77.10	True point for cor. of secs. 10, 11, 14, and 15.

Land, broken and rolling, cut by rocky gulches, putting W. into Paria river.

Soil, rocky of sandstone bedrock and ledges, with loose, sand.

Timber, scattering cedars on mile.

Undergrowth, short sage, greasewood and grass.

Poor grazing land

From the cor. of secs. 3,4,33 and 34 on S. bdy. of tp.

Thence,

N. 0°02½ W., bet. secs. 33 and 34.

Over rolling bench land, sloping W., through scattering cedars and short undergrowth.

38.30	Rocky gully, 25 ft. deep, course S.70°W.
40.00	On ground sloping S., 25 ft. above sec. cor.

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

¼

S33 | S34

1917

from which

A cedar, 12 ins. diam., bears N.85½°E., 117 lks. dist., marked ¼ S34 BT

A cedar, 18 ins. diam., bears S.38½°W., 48 lks. dist., marked ¼ S33 BT

Chains	
50.45	Gully, 25 ft. deep, course SW.
74.00	Base of high sandstone break, brs. E. and SW.; asc. abruptly S. face over high sandstone ledges and barren rock slopes, 170 ft. to
80.00	On steep S. slope on face of break, 300 ft. above ¼ cor. Set an iron post, 3 ft. long, 2 ins. dia., 12 ins. in ground to bedrock, and 12 ins. in mound of stone, for cor. of secs. 27,28,33 and 34, with brass cap marked

T43S	R1W
S28	S27
S33	S34

1917 from which

A cedar, 8 ins.diam.,bears N.64¼°E., 71 lks.dist., marked T43S R1W S27 BT
A cedar, 8 ins.diam.,bears S.61½°E., 132 lks.dist., marked T43S R1W S34 BT
A cedar,10 ins.diam.,bears S.25°W., 99 lks.dist., marked T43S R1W S33 BT
A cedar, 8 ins.diam.,bears N.75½°W., 135 lks.dist., marked T43S R1W S28 BT

S. 74 chs. rolling bench land, lying under high sandstone break, sloping and draining to SW. in to Buckskin gulch. remainder of mile is S. face of break.

Soil, sand, sandy and gravelly loams, sandstone bedrock and ledges.

Timber, scattering cedars on mile.

Undergrowth, short sgae, greasewood, oose and grass.

Good grazing on the bench land.

East, on random line, bet. secs. 27 and 34.

40.00 Set temp. ¼ sec. cor.

80.06 Intersect N. and S. line, 5 lks. S. of cor. of secs. 26,27,34 and 35.

Thence

S. 89° 58' W., on true line, bet. secs. 27 and 34.

Over rolling bench land, sloping to N., through scattering cedars and short undergrowth.

5.20 Small draw, 25 ft. deep, course N.

27.10 Stock trail, brs. NE. and SW.

Subdivision of T.43 S.,R.1 W.

Chains	
40.03	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked ¼ S27 / S34 1917 from which A cedar, 18 ins.diam.,bears N.72¾°E., 59 lks.dist., marked ¼ S27 BT A cedar, 12 ins.diam.,bears S.11°W., 142 lks.dist., marked ¼ S34 BT
44.25	Top rim of sandstone break, brs. N.70°W. and nearly S.
	Desc. 55 ft. to
51.00	Thence along broken S. slope near top rim of break.
80.06	The cor. of secs. 27,28,33 and 34.
	E. 44½ chs. rolling top of sandy bench, having a slight N. exposure; remainder rocky land, facing S. along near top of sandstone break.
	Soil, loose sandy and fine gravelly loams, and rocky.
	Timber, scattering cedars on mil e.
	Undergrowth, sage, greasewood, oose, brigham-tea & grass.
	Good grazing land.

	N. 0° 02' W., bet. secs. 27 and 28.
	Abrupt ascent over S. face of break, through scattering cedar timber and short undergrowth.
2.50	Top of break, 55 ft. above cor., brs. nearly E., and S.70°W.; thence over rolling, sandy bench land, facing to N.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked ¼ S28 | S27 1917 from which A cedar, 6 ins.diam.,bears S.14°E., 76 lks.dist., marked ¼ S27 BT A cedar,10 ins.diam.,bears N.72½°W., 413 lks.dist., marked ¼ S28 BT
80.00	On gentle N. slope, 115 ft. below ¼ cor.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in

Chains	
	ground, for cor. of secs. 21,22,27 and 28, with brass cap marked
	T43S | R1W S21 | S22 S28 | S27 1917 from which
	A cedar, 12 ins.diam.,bears N.26°E., 636 lks.dist., marked T43S R1W S22 BT
	A cedar, 10 ins.diam.,bears S.18°W., 780 lks.dist., marked T43S R1W S28 BT
	A cedar, 12 ins.diam.,bears N.31°W., 590 lks.dist., marked T43 SR1W S21 BT
	No trees within limits in sec. 27; pits impracticable; deep, loose sand.
	S. 2½ chs. is S. face of sandstone break; rocky soil: remainder of mile is rolling bench land, having a gentle N. and NE. slope and drainage; soil, a deep, loose, fine sand.
	Timber, scattering cedars on mile.
	Undergrowth, sage, greasewood, brigham-tea and grass.
	Good grazing land.

	N. 89°58' E., on random line, bet. secs. 22 and 27.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line, 7 lks. S. of cor. of secs. 22,23,26 and 27.
	Thence,
	S. 89°55' W., on true line, bet. secs. 22 and 27.
	Over rolling, sandy bench land, facing to NE., through very scattered cedars and short undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S22/S27 1917 from which
	A cedar, 14 ins.diam.,bears N.77°E., 659 lks.dist., marked ¼ S22 BT
	A cedar, 6 ins.diam.,bears S.53½°W., 450 lks.dist., marked ¼ S27 BT

Chains	
52.20	Top of raise, 30 ft. high, brs. N. and S.
80.00	The cor. of secs. 21,22,27 and 28.
	Land, rolling top of bench, having a gentle NE. exposure and drainage.
	Soil, deep, loose, fine sand; sandy and gravelly loams.
	Timber, very scattered cedars on mile.
	Undergrowth, heavy sage, greasewood, oose and grass.
	Good grazing land.
	N. 0° 02' W., bet. secs. 21 and 22.
	Over rolling bench land, facing N., through very scattere cedar timber and short undergrowth; descending.
3.90	Stock trail, brs. N.70°E. and S.70°W.
26.45	Ravine, 30 ft. deep, 90 ft. below sec. cor., course NE.
40.00	On NW. slope on S. side of a ravine.
	Set an iron post, 3 ft. long, 1 in. dia., 20 ins. in ground to bedrock, and 6 ins. in mound of stone, for ¼ sec. cor., with brass cap marked
	¼ S21 | S22 1917 from which
	A cedar, 10 ins.diam.,bears N.35¼°E., 69 lks.dist., marked ¼ S22 BT
	A cedar, 12 ins.diam.,bears N.54¼°W., 89 lks.dist., marked ¼ S21 BT
	Desc. 35 ft. to
44.75	Ravine, 70 ft. deep, course N.60°E.; asc. 80 ft. to
51.30	Spur, bet. ravines, projects N.70°E.; desc. 30 ft.
57.90	Ravine, course N.80°E.; asc. 50 ft. to
63.00	Spur, projects E.; desc.
66.50	Gulch, 60 ft. deep, course E.; asc. over rocky land.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 12 ins. in ground to bedrock, and 12 ins. in mound of stone, for cor. of secs. 15,16,21 and 22, with brass cap marked

Chains	
	T43S | R1W S16 | S15 S21 | S22
	1917 from which
	A cedar, 8 ins.diam., bears N.43°E., 207 lks.dist., marked T43S R1W S15 BT
	A cedar, 6 ins.diam., bears S.85½°E., 323 lks.dist., marked T43S R1W S22 BT
	A cedar, 7 ins.diam., bears S.36½°W., 254 lks.dist., marked T43S R1W S21 BT
	A cedar, 5 ins.diam., bears N.58¾°W., 170 lks.dist., marked T43S R1W S16 BT
	S. 25 chs. gently rolling bench land, facing nearly N.; remainder broken land, facing nearly E., cut by several ravines putting E.
	Soil, loose sandy, gravelly and sandstone bedrock outcrops.
	Timber, scattering cedars on mile.
	Undergrowth, sage, greasewood, brigham-tea and grass.
	Good grazing land.
	Cor. of secs. 15,16,21 and 22 stands at S. foot of a sandstone rim of break, bearing nearly E. and W.

	N. 89°55' E., on random line, bet. secs. 15 and 22.
40.00	Set temp. ¼ sec. cor.
80.06	Intersect the cor. of secs. 14,15,22 and 23.
	Thence,
	S. 89°55' W., on true line, bet. secs. 15 and 22.
	Over broken and hilly land, through scattering cedars and short undergrowth; gradually asc. E. slope, 20 ft.
4.50	E. edge of gulch, brs. NE. and SW.; desc. abruptly.
5.85	Bottom of gulch, 100 ft. deep, 2 chs. wide, course NE.
	Asc.
18.50	Top of W. side, gulch, brs. NE. and SW.; thence more gradual ascent over E. and SE. slopes.
8.90	Well defined stock trail, brs. NE. and SW.
25.00	Thence asc. along S. face of break, rocky ground.
37.85	Top of ascent on S. face of break, 375 ft. above gulch, slopes off to S., and brs. N. 1 ch. to top of break bearing nearly E. and W.

Chains	
	Desc. 25 ft. to
40.03	Set an iron post, 3 ft. long, 1 in. dia., 18 ins. in ground to bedrock, and 8 ins. in mound of stone, for ¼ sec. cor., with brass cap marked
	¼ S15 / S22 1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	No trees within limits.
	Cor. situated on steep S. slope, 1½ chs. S. of top of break.
	Thence gently descending along S. face of break.
80.06	The cor. of secs. 15,16,21 and 22.
	Land, broken and mountainous; with NE. exposure on E. 4½ chs.; and to S. and SE. on remainder; drainage E.
	Soil, rocky, sandtone bedrock and broken ledges, and loose sand with some red clay.
	Timber, very scattering cedars on mile.
	Undergrowth, short sparse sage, and greasewood.

	N. 0°02' W. bet. secs. 15 and 16.
	Abrupt ascent over ledge, 75 ft. to
3.20	Top of red sandstone rim or break, brs. N.85°E. and S.70°W.; thence over high bench land, through scattering cedar timber and short undergrowth.
12.25	Near head of ravine, 50 ft. deep, course NE.
28.30	Wash, 10 lks. wide, 5 ft. deep, in ravine, 75 ft. deep, course N.80°E.
40.00	On a SE. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S16 / S15 1917 from which

Chains	
	A cedar, 18 ins.diam.,bears S.54¼°W., 68 lks.dist., marked ¼ S16 BT
	A cedar, 10 ins.diam.,bears N.43¼°E., 72 lks.dist., marked ¼ S15 BT.
	Thence gradually desc.
69.10	Edge of bench and top of break, brs. nearly E. and W.
	Desc. abruptly over ledges, 235 ft. to
80.00	Near base of same.
	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in ground, for cor. of secs. 9,10,15 and 16, with brass cap marked
	T43S | R1W S9 | S10 S16 | S15 1917
	from which
	A cedar, 8 ins.diam.,bears N.39¼°E., 170 lks.dist., marked T43S R1W S10 BT
	A cedar, 10 ins.diam.,bears S.24¾°E., 81 lks.dist., marked T43S R1W S15 BT
	A cedar, 10 ins.diam.,bears S.79°W., 55 lks. dist., marked T43S R1W S16 BT
	A cedar, 12 ins.diam.,bears N.34°W., 183 lks.dist., marked T43S R1W S9 BT
	Land, broken bench and mountainous; general slopes and drainage to NE.
	Soil, rocky and loose sandy loam.
	Timber, scattering cedars on mile.
	Fair grazing on greater portion of mile.

	N. 89°55' E., on random line, bet. secs. 10 and 15.
40.00	Set temp. ¼ sec. cor.
80.25	Intersect N. and S. line, 21 lks. N. of cor. of secs. 10,11,14 and 15; true cor. point.
	Thence,
	N. 89°56' W., on true line, bet. secs. 10 and 15, from true cor. point.
	Over broken land, descending towards Paria river, through scattering cedars and short undergrowth.
12.35	Enter Paria river bed, 75 ft. below sec. cor., brs. N & S.
16.00	Paria river, 60 lks. wide, 1½ ft. deep, course S.20°E.

Subdivision of T.43 S., R. 1 W.

Chains	
22.00	Leave river bed, brs. N. and S.; asc. over broken hilly land, facing E. and NE.
29.50	Cross head of ravine, 70 ft. above river bottom, course N.80°E.
40.12½	On low spur, 120 ft. above ravine, projects NE.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S10 / S15 1917 from which
	A cedar, 14 ins.diam.,bears N.30°E., 154 lks.dist., marked ¼ S10 BT
	A cedar, 8 ins.diam.,bears S.17½°W., 133 lks.dist., marked ¼ S15 BT
62.00	Head of ravine, 20 ft. below ¼ cor.,course N.70°E.
67.25	Top of spur, 75 ft. above ravine, projects N.50°E.; desc. abruptly 135 ft. to
80.25	The cor. of secs. 9,10,15 and 16.
	Land, rough broken and hilly; draining into Paria river, which flows nearly S.
	Soil, rocky, gravelly and loose sand.
	Timber, very scattered cedars.
	Undergrowth, short sparse, sage, greasewood & yellow-top.

	N. 0°02' W., on random line, bet. secs. 9 and 10.
40.00	Set temp. ¼ sec. cor.
62.10	Intersect old W.C. for the ¼ cor. of secs. 9 and 10.
	I destroy all traces of this cor.
77.81	Intersect the cor. of secs. 3,4,9 and 10.
	Thence,
	S. 0° 02' E., on true line, bet. secs. 9 and 10.
	Over bottom land of Paria river, through short undergrow
15.00	Leave bottom land, enter rough broken hilly land, brs. NW. and S.70°E.; asc. through scattering cedars.
27.20	Ravine, 30 ft. deep, course N.30°E.
37.81	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, on bedrock, for ¼ cor. of sec. 9 only,

Chains	
	with brass cap marked
	¼ S9 1917 from which
	A cedar, 6 ins.diam.,bears N.61¼°W., 226 lks. dist., marked ¼ S9 BT
	No other trees suitable within limits.
	Asc. 25 ft. to
40.00	On N. slope, 145 ft. above sec. cor.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec. 10 only, with brass cap marked
	¼ S10 1917 from which
	A cedar, 10 ins.diam.,bears S.69°E., 96 lks.dist., marked ¼ S10 BT
	No other suitable trees within limits.
42.80	Base of sandstone rim or break, brs. N.70°E and S.70°W. abrupt ascent 50 ft. to
47.10	Top of same, 80 ft. above ¼ cor. of sec.10, brs. nearly E. and W.; thence along top of point of bench.
67.25	Edge of bench and top of break, brs. NE. and SW.; abrupt descent over ledge, 95 ft. to
69.80	Base of break and canyon, course NE.; asc. abruptly 185 ft. to
77.81	The cor. of secs. 9,10,15 and 16.
	Land, rough, broken and hilly; general exposure and drainage to NE. into Paria river.
	Soil, rocky of sandstone bedrock and ledges, gravelly and loose sand.
	Timber, very scattered cedars
	Undergrowth, short sage, brigham-tea and yellow-top.

Chains	
	From the cor. of secs. 4,5,32 and 33 on S. bdy of tp.
	Thence
	N. 0°03' W. bet. secs. 32 and 33.
	Over rolling, sandy bench land, facing NE., through few scattered cedars and short undergrowth.
1.00	Drain, course NE.
12.00	Asc. SE. slope to higher bench.
21.30	Top of higher rocky bench, 70 ft. above base, brs. SW. and top extends E. about 10 chs. to end.
23.60	Leave top, desc. N. slope, 140 ft. to
37.00	Base of same, brs. E. and SW.; continue gentle descent on N. slope towards Buckskin gulch.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked

¼

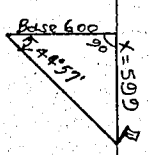
S32 | S33

1917 from which

A cedar, 20 ins.diam., bears S.37°E., 305 lks.dist., marked ¼ S33 BT

A cedar, 14 ins.diam., bears N.84½°W., 363 lks.dist., marked ¼ S32 BT

48.73	Top of right rim of Buckskin Gulch, 80 ft. below ¼ cor. brs. nearly E. and W.; impossible to chain across; therefore triangulate as follows:
	Erect flag at this point, then proceed to N. side of gulch and place instrument in line, N.0°03'W., of flag,
	thence measure a base line, N.89°57'W., 6.00 chs. to point whence flag on S. side subtends an angle of 44°57'; therefore tan. 44°57' x base or .99826 x 6.00 equals 5.99 chs. which added to 48.73 makes
54.72	To triangulation point on N. rim of gulch, brs. about E. and W.; the Gulch proper is only 1 ch. wide, about 500 ft. deep, course N.80°E.
	Thence gradually asc. broken, rocky bench land.
66.10	Ravine, 20 ft. deep, course S.20°E.
80.00	Point for sec. cor. falls on sloping bedrock, where cor.



Chains	
	cannot be set; cut cross for exact cor. point. and at
80.15	Set an iron post, 3 ft. long, 2 ins. dia., 14 ins. in ground to bedrock, and 10 ins. in mound of stone, for witness cor. of secs. 28,29,32 and 33, with brass cap marked

T43S	R1W
S29	S28
S32	S33

WC
1917 from which

A cedar, 10 ins.diam.,bears N.30½°E., 92 lks.dist., marked T43S R1W S28 BT WC
A cedar, 14 ins.diam.,bears S.31°W., 135 lks.dist., marked T43S R1W S32 BT WC
A cedar, 10 ins.diam.,bears N.78½°W., 80 lks.dist., marked WC T43S R1W S29 BT

No trees within limits in sec. 33; no other accessories built.

Cor. situated in E. edge of sand wash, course S.20°W., and 120 ft. above N. rim of Buckskin gulch.

Land, rolling and broken bench; sloping and draining NE. on S. 49 chs., and to SE. on remainder into Buckskin gulch, which drains E.

Soil, rocky of sandstone bedrock and outcrops with deep, loose, fine sand.

Timber, very scattered cedars on mile.

Undergrowth, sage, greasewood,brigham-tea, some live oak and grass.

From true point for cor. of secs. 23,29,32, and 33, East, on random line, bet. secs. 28 and 33.

40.00	Set temp. sec. cor.
80.10	Intersect N. and S. line, 5 lks. S. of cor. of secs. 27,28,33 and 34.

Thence,

S. 89°58' W., on true line, bet. secs. 28 and 33.

Along S. face of break, through scattering cedars and short undergrowth.

6.50	Top of break, 60 ft. above sec. cor., brs. N.70°E. and S.70°W.; thence over top of rolling bench.

Chains	
23.75	Leave top of bench and top of sandstone break, brs. S. and N.30°W.; desc. abruptly over ledges, 250 ft. to
32.00	Base of break and ledges, brs. N.20°W. and S.20°E.; thence over rolling sandy lower bench land, facing S.
40.05	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked ¼ S28 / S33 1917 from which A cedar, 14 ins. diam., bears N.22°W., 386 lks. dist., marked ¼ S28 BT A cedar, 12 ins. diam., bears S.24½°W., 276 lks. dist., marked ¼ S33 BT
48.40	Ravine, 30 ft. deep, course S.20°E.
79.20	Descend abruptly over sandrock outcroppings, 20 ft. to
80.10	True point for cor. of secs. 28, 29, 32 and 33, 180 ft. below ¼ sec. cor.
	Land, rolling bench lands and sandstone breaks; general exposure and drainage S. into Buckskin gulch.
	Soil, deep, loose red sand, and sandstone bedrock and le
	Timber, scattering cedars on mile.
	Undergrowth, sage, greasewood, brigham-tea and grass.
	Fair grazing land.

	N. 0°03' W., bet. secs. 28 and 29, from true cor. point.
	Ascending over broken bench land, facing S., through
	---
	scattering cedar timber and short undergrowth.
.15	W.C. for cor. of secs. 28, 29, 32, and 33.
1.45	Wash, 25 lks. wide, in bottom of ravine, 30 ft. deep, course S.20°W.
17.75	Base of red sandstone break, 125 ft. above sec. cor., brs. N.70°E. and S.70°W.; abrupt ascent S. face over sandstone ledges and barren rock slope, 300 ft. to
30.55	Top of break and ledges, brs. N.70°E. and S.70°W.; thenc over higher bench land;
33.00	Top of ascent, brs. same as break, thence over land having a general NE. slope.

Subdivision of T.43 S., R. 1 W.

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

¼
S29 | S28
1917 from which

A cedar, 12 ins.diam.,bears N.78°E., 102 lks.dist., marked ¼ S28 BT
A cedar, 12 ins.diam.,bears N.18½°W., 65 lks.dist., marked ¼ S29 BT

Desc. 55 ft. to

48.75 Bottom of ravine, course NE.; asc. 75 ft. to

67.25 Sandy ridge, brs. N.30°E. and S.80°W.; gently desc.30ft. to

80.00 On NE. slope.

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

T43S	R1W
S20	S21
S29	S28

1917 from which

A cedar, 16 ins.diam.,bears S.52°E., 156 lks.dist., marked T43S R1W S28 BT
A cedar, 10 ins.diam.,bears S.67½°W., 269 lks.dist., marked T43S R1W S29 BT
A cedar, 6 ins.diam.,bears N.62½°W., 514 lks.dist., marked T43S R1W S20 BT

No trees within limits in sec. 21; no other accessories to cor.

Land, rolling and broken benches and break; exposure and drainage to S. on S. 33 chs., and to NE. on remainder.

Soil, loose sand and rocky of sandstone bedrock and ledges.

Timber, very scattering cedars.

Undergrowth, sage, greasewood, yellow-top and grass.

N. 89°58' E., on random line, bet. secs. 21 and 28.

40.00 Set temp. ¼ sec. cor.

80.08 Intersect N. and S. line, 2 lks. S. of cor. secs. 21,22, 27 and 28.

Thence,

Chains	
	S. 89°57' W., on true line, bet. secs. 21 and 28.
	Over rolling bench land, facing to NE., through scattering cedar timber and short undergrowth.
26.35	Low ridge, 35 ft. above sec. cor., brs. NE. and SW.
30.55	Ravine, 35 ft. deep, course NE.; asc.
40.04	On gentle SE. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S21 / S28 1917 from which
	A cedar, 14 ins.diam.,bears N.51¼°E., 170 lks.dist., marked ¼ S21 BT
	A cedar, 10 ins.diam.,bears S.60°W., 247 lks.dist., marked ¼ S28 BT
57.35	Low flat ridge, 40 ft. above ¼ sec. cor., brs. NE & SW.
71.45	Draw, near head, 20 ft. deep, course NE.
80.08	The cor. of secs. 20,21,28 and 29.
	Land, rolling bench, having a general NE. exposure and drainage.
	Soil, loose sand, sandy and gravelly loams, with some scattered sandstone bedrock.
	Timber, scattering cedars on mile.
	Undergrowth, sage, brigham-tea, yellow-top and grass.
	Good grazing land.

	N. 0°03' W., bet. secs. 20 and 21.
	Over broken bench land, through scattering cedars and short undergrowth.
4.70	Desc. 80 ft. to
8.50	Bottom of ravine, 80 ft. deep, course N.60°E.; asc.
27.80	Ridge, 135 ft. above ravine, brs. nearly E. and W.;desc.
33.55	Gulch, 70 ft. deep, course N.80°E.
37.70	Small gully, 25 ft. deep, course E.; asc.
39.75	At foot of red broken sandstone rim, brs. NE. and S.70°W.
	Set an iron post, 3 ft. long, 1 in. dia., 18 ins. in ground to bedrock, 8 ins. in mound of stone, for the

Chains	
	witness ¼ sec. cor., with brass cap marked
	¼ W | C S20 | S21 1917 from which
	A cedar, 8 ins.diam., bears S.64½°E., 78 lks.dist., marked WC ¼ S21 BT A cedar, 6 ins.diam., bears S.58½°W., 132 lks.dist., marked WC ¼ S20 BT
40.00	True cor. point falls on steep S. slope, rocky, where cor. could not be set.
45.15	Top of red sandstone rim, 65 ft. above ¼ cor., brs. N.N. and S.70°W.; thence over higher rolling bench land, gently asc.
64.00	Begin gentle descent on N. slope.
74.00	Head of draw, 5 ft. deep, course N.30°E.
80.00	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in ground, for cor. of secs. 16,17,20 and 21, with brass cap marked
	T43S | R1W S17 | S16 S20 | S21 1917 from which
	A cedar, 8 ins.diam., bears N.33°E., 214 lks.dist., marked T43S R1W S16 BT A cedar, 6 ins.diam., bears S.37°W., 190 lks.dist., marked T.43S R1W S21 BT A cedar, 8 ins.diam., bears S.53°W., 394 lks.dist., marked T43S R1W S20 BT A cedar, 8 ins.diam., bears N.13°W., 144 lks.dist., marked T43S R1W S17 BT
	Land, rolling and broken bench; drainage to NE.
	Soil, loose sand, sandy and gravelly loams, with some rocky.
	Timber, scattering cedars on mile.
	Undergrowth, brigham-tea, yellow-top, ooze and grass.
	Fair grazing land.

	N. 89°57' E., on random line, bet. secs. 16 and 21.
40.00	Set temp. ¼ sec. cor.
80.08	Intersect N. and S. line, 7 lks. N. of cor. of secs. 15,16,21 and 22.

Chains	
	Thence,
	West, on true line, bet. secs. 16 and 21.
	Abrupt ascent over red sandstone rim, 65 ft. to
4.80	Top of rim, brs. NE. and SW.; thence over rolling and slightly broken bench land, facing S., through scatteri cedars and short undergrowth; ascending.
40.04	On a S. slope, 60 ft. above top of rim.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S16 / S21 1917 from which
	A cedar, 6 ins.diam.,bears S.18½°E., 189 lks.dist., marked ¼ S21 BT
	A cedar, 7 ins.diam.,bears N.6¾°W., 156 lks.dist., marked ¼ S16 BT
57.90	Ridge, 70 ft. above ¼ cor., brs. NE. and SW.; thence gently desc. over land, facing N.
77.00	Small draw, 25 ft. below ridge, course N.30°E.
80.08	The cor. of secs. 16,17,20 and 21.
	Land, rolling and broken; exposure and drainage to S and SE. on E. 58 chs., and to N. on remainder.
	Soil, gravelly, rocky and sandy, with some clay.
	Timber, scattering cedars on mile.
	Undergrowth, short greasewood, yellow-top and grass.
	Fair grazing land.

	N. 0°03' W., bet. secs. 16 and 17.
	Over rolling bench land, facing N. and NE., through scattering cedars and short undergrowth.
3.50	Draw, 8 ft. deep, course NE.
16.40	Wash, 10 lks. wide, 4 ft. deep, course NE.
25.50	Draw, 5 ft. deep, course NE.
39.40	Low ridge, 25 ft. high, brs. NE. and SW.
40.00	On NW. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked

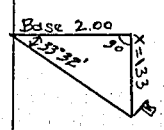
Chains	
	$\frac{1}{4}$ S17 | S16 1917 from which
	A cedar, 10 ins.diam.,bears S.75$\frac{3}{4}$°E., 42 lks.dist., marked $\frac{1}{4}$ S16 BT A cedar, 8 ins.diam.,bears N.42$\frac{3}{4}$°W., 50 lks.dist., marked $\frac{1}{4}$ S17 BT
	Descend.
62.35	Stock trail, brs. N.60°E. and S.15°W.
64.25	Gulch, 190 ft. below $\frac{1}{4}$ sec. cor., course N.70°E.; asc.
79.00	Ridge, 115 ft. above gulch, brs. N.60°E. and S.60°W.
	Desc. 20 ft. to
80.00	On NW. slope.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 8,9,16 and 17, with brass cap marked
	T43S | R1W S8 | S9 S17 | S16 1917 from which
	A cedar, 10 ins.diam.,bears N.72°E., 177 lks.dist., marked T43S R1W S9 BT A cedar, 8 ins.diam.,bears S.22$\frac{1}{2}$°W., 75 lks.dist., marked T43S R1W S17 BT A cedar, 5 ins.diam.,bears N.39$\frac{1}{2}$°W., 150 lks.dist., marked T43S R1W S8 BT
	No trees within limits in sec. 16; pits impracticable, loose sand.
	Land, rolling and broken; general face and drainage to NE.
	Soil, loose sand, gravelly and sandstone bedrock, with some red clay.
	Timber, scattering cedars on mile.
	Undergrowth, short brigham-tea, yellow-top, oose & grass.
	Fair grazing land.

	East, on random line, bet. secs. 9 and 16.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.07	Intersect the cor. of secs. 9,10,15 and 16.
	Thence,
	West, on true line, bet. secs. 9 and 16.

Chains	
	Over broken and hilly land, through scattering cedars and short undergrowth; asc. towards base of sandstone break, 80 ft. to
15.00	Base of break, brs. NE. and S.; abrupt ascent over ledge.
20.00	Top of break, 100 ft. above base, brs. NE. and S. desc. 150 ft.
28.50	Gulch, course NE.; asc. 200 ft.
35.90	Ridge, Brs. N.20°E. and S.20°W.; desc. 50 ft. to
40.03½	On NW. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S9 / S16 1917 from which
	A cedar, 8 ins. diam., bears N.53½°E., 228 lks. dist., marked ¼ S9 BT
	A cedar, 14 ins. diam., bears S.89¼°E., 64 lks. dist., marked ¼ S16 BT
60.80	Ravine, 65 ft. deep, course N.15°E.; asc.
77.90	Ridge, 90 ft. above ravine, brs. N.60°E. and S.60°W.; desc. 15 ft. to
80.07	The cor. of secs. 8, 9, 16 and 17.
	Land, broken, hilly and rolling mountainous; general slope and drainage to NE.
	Soil, gravelly, rocky and loose sand, with some clay.
	Timber, scattering cedars.
	Undergrowth, sage, brigham-tea, yellow-top and oose.
	N. 0°03' W., on random line, bet. secs. 8 and 9.
40.00	Set temp. ¼ sec. cor.
77.19	Fall 18 links west of the cor. of secs. 4, 5, 8 and 9.
	Thence,
	S. 0°05' W., on true line, bet. secs. 8 and 9.
	Over broken and hilly land, through scattering cedars and short undergrowth; asc. N. slope 25 ft. to
4.45	Ridge, brs. NE. and SW.; desc. abruptly 210 ft. to
14.40	Bottom of deep canyon, course N.70°E.; asc.

Chains	
37.19	On NE. slope, 300ft. above canyon.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S8 | S9 1917 from which
	A cedar, 12 ins.diam.,bears N.70½°E., 136 lks.dist., marked ¼ S9 BT A cedar,14 ins.diam.,bears S.20°W., 80 lks.dist., marked ¼ S8 BT
	Asc. 65 ft. to
46.20	Top of spur, projects N.60°E.; desc. abruptly 220 ft.
57.70	Canyon, course N.40°E.; asc. abruptly 230 ft. to
68.50	Spur, projects NE.; desc. 90 ft. to
74.40	Draw, course NE.; asc. 40 ft. to
77.19	The cor. of secs. 8,9,16 and 17.
	Land, rolling mountainous and broken; drainage to NE.
	Soil, rocky, gravelly and loose sand; sandstone formation.
	Timber, scattering cedars on mile.
	Undergrowth, brigham-tea, yellow-top, oose and grass.

	From the cor. of secs. 5,6,31 and 32 on S. bdy. of tp.
	Thence
	N. 0°03' W., bet. secs. 31 and 32.
	Over rolling bench land, sloping NW. and N. towards Buckskin gulch, through scattering cedars and pinon timber and short undergrowth.
13.70	Begin abrupt descent over N. slope, brs. NE and SW., over series of small sandstone ledges.
21.08	S. brink of Buckskin Gulch, 270 ft. below sec. cor., brs. N.80°E. and S.80°W.; impract to chain across; therefore triangulate as follows:
	Erect flag at this point, proceed to N. side, where I place instrument on line, N.0°03'W. of flag, thence measure a base line, N.89°57'W., 2.00 chs. to point whence flag subtends an angle of 33° 32'; dist. is



Chains	
	tan. 33°32' x base or .66272 x 2.00 = 1.33 chs., which added to 21.08 makes
22.41	To triangulation point on N. rim of gulch, brs. N.80°E. and S.80°W.; Buckskin Gulch is a narrow chasm, with perpendicular sandstone walls, about 1 ch. wide and 400 ft. deep here, course N.80°E.; no living water in same.
	Thence gradual ascent over rolling and low broken, sandy bench facing S. and SE.
40.00	170 ft. above rim of gulch.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ | S31 S32 | 1917 from which
	A cedar, 10 ins. diam., bears N.88°E., 83 lks. dist., marked ¼ S32 BT
	A cedar, 6 ins. diam., bears N.16¾°W., 183 lks. dist., marked ¼ S31 BT
45.00	Stock trail, brs. E. and W.
62.65	Draw, 35 ft. deep, course E.
74.50	Base of broken red sandstone break, brs. N.60°E. and S.60°W.; more abrupt ascent S. face over barren sandstone bedrock and ledges, 50 ft. to
78.09	True point for sec. cor. falls on inaccessible slope; therefore at this point
	Set an iron post, 3 ft. long, 2 ins. dia., 5 ins. in ground to bedrock, 19 ins. in mound of stone, for the witness cor. of secs. 29,30,31 and 32, with brass cap marked
	WC T43S R1W S30 S29 S31 S32 | 1917 from which
	A cedar, 12 ins. diam., bears S.14°E., 235 lks. dist., marked WC T43S R1W S32 BT
	A cedar, 8 ins. diam., bears S.21°W., 270 lks. dist., marked WC T43S R1W S31 BT
	and raise a mound of stone, 2 ft. base, 1½ ft. high W. of

Chains	
	No trees within limits in remaining secs.; cor. situated on a small flat at base of steep barren slope;135ft.above ¼ cor.
80.00	The true point for. sec. cor. falls on steep S. face of barren sandstone slope or ledge and is inaccessible.
	Land, rolling and broken bench, sloping and draining into Buckskin gulch.
	Soil, loose, fine red sand, and sandstone bedrock and outcrops.
	Timber, scattering cedars on mile.
	Undergrowth, brigham-tea, sage, yellow-top and grass.
	Fair grazing land.

	From the W.C. of secs. 29,30,31 & 32, which is 1.91 chs.S.0° 03'E. of true cor. point., I run as follows:
	N. 44°0'E., 2.66 chs. dist. to true random line;
	thence, East, on random line, bet. secs. 29 and 32.
40.00	Set temp. ¼ sec. cor.
79.98	Intersect 2 lks. S. of the true point for cor. of secs. 28,29,32 and 33.
	Thence
	S. 89°59' W., on true line, bet. secs. 29 and 32.
	Over rolling and broken bench land, facing S., through scattering cedars and short undergrowth; ascending.
0.25	Sand wash, 20 lks. wide, in ravine, course S.20°W.
23.95	Draw, 40 ft. deep, course S., at base of sandstone break, near S. point, brs. N.60°E. and S.60°W.
	Asc. abruptly over barren sandstone bedrock and ledges.
29.65	Top of same, 120 ft. above base and 260 ft. above sec. cor., brs. S. about 2 chs. to point, and N.
	Descend abruptly W. face, 160 ft. to
32.50	Base of same, brs. N.20°W. and S.; thence over rocky bench land, facing S.
39.99	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone on bedrock, for ¼ sec. cor., with brass cap marked

Chains	
	S29 / ¼ S32 1917 from which
	A cedar, 5 ins. diam., bears S.24°W., 154 lks. dist., marked ¼ S32 BT
	A cedar, 8 ins. diam., bears N.42°W., 135 lks. dist., marked ¼ S29 BT
41.90	Top of raise, 15 ft. above ¼ cor., brs. N. and S.
52.15	Ravine, 20 ft. deep, course S.20°E.
66.80	Ravine, 30 ft. deep, course SE.
74.30	Base of sandstone break, brs. N.70°E. and S.60°W.; thence along S. slope over barren sandstone slope, ascending.
78.13	Impossible to continue further on true line on account of ledge; thence
	S.44°0'W., 2.66 chs. dist. to the W.C. of secs. 29,30, 31 and 32.
	Land, rolling and broken bench land, facing and draining S. into Buckskin gulch.
	Soil, loose, fine sand and sandstone bedrock and outcrops
	Timber, scattering cedars on mile.
	Undergrowth, sage, brigham-tea, yellow-top and grass.
	Fair grazing land.

	West, on random line, bet. secs. 30 and 31, counting dist. from true cor. point.
40.00	Set temp. ¼ sec. cor.
79.48	Intersect W. bdy. of tp., 2 lks. S. of the cor. of secs. 25,30,31 and 36, heretofore described in survey of T.43 S., R.2 W.
	Thence,
	S. 89°59' E., on true line, bet. secs. 30 and 31.
	Over rolling, sandy top of bench, through scattering cedar timber and short undergrowth.
39.48	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked S30 / ¼ S31 1917 from which

Chains	
	A cedar, 10 ins.diam., bears S.8½°W., 33 lks.dist., marked ¼ S31 BT A cedar, 6 ins.diam., bears N.60¾°W., 24 lks.dist., marked ¼ S30 BT
54.75	Edge of bench and top of sandstone break, brs. NE. and S.25°W.; desc. abruptly over barren rock slope & ledges.
79.48	The true point for cor. of secs. 29,30,31 and 32, 300 ft. below top of break.
	W. 54¾ chs. rolling top of bench; remainder is SE. face of sandstone break.
	Soil, on bench land, deep, loose, fine sand; on break sandstone bedrock and ledges.
	Timber, scattering cedars on mile.
	Undergrowth, sage, greasewood, yellow-top and grass.

	N. 0°03' W., bet. secs. 29 and 30, counting dist. from true cor. point.
	Asc. abruptly over S. face of sandstone break, barren sandstone slopes and ledges, through scattering cedars and short undergrowth.
14.45	Top of break and ledges, 300 ft. above true cor. point, brs. NE. and S.70°W. Thence over rolling bench, sandy soil; asc.
15.40	Top of ascent, brs. NE and S.70°W.; thence over land facing N.
40.00	In small swale, drains N.60°E.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked ¼ S30 | S29 1917 from which
	A cedar, 12 ins.diam., bears N.71¾°E., 122 lks.dist., marked ¼ S29 BT A cedar, 8 ins.diam., bears S.44°W., 149 lks.dist., marked ¼ S30 BT
62.70	Wide shallow swale, drains E.; gently asc.
80.00	On gentle S. slope.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in

Chains	
	ground, for cor. of secs. 19,20,29 and 30, with brass cap marked
	T43S | R1W S19 | S20 S30 | S29 1917 from which
	A cedar, 10 ins.diam.,bears N.47¼°E., 458 lks.dist. marked T43S R1W S20 BT
	A cedar, 6 ins.diam.,bears S.70½°E., 60 lks.dist., marked T43S R1W S29 BT
	A cedar, 6 ins.diam.,bears S.42½°W., 418 lks.dist., marked T43S R1W S30 BT
	A cedar, 8 ins.diam.,bears N.24°W., 343 lks.dist., marked T43S R1W S19 BT
	S. 14.45 chs. S. face of sandstone break, barren sandstone bedrock and ledges; remainder rolling bench land with general NE. exposure; soil, deep, loose sand.
	Timber, scattering cedars on mile.
	Undergrowth, sage, greasewood, yellow-top and grass.
	Good grazing land on bench.

	N. 89°59' E., on random line, bet. secs. 20 and 29.
40.00	Set temp. ¼ sec. cor.
79.88	Intersect the cor. of secs. 20,21,28 and 29.
	Thence,
	S. 89°59' W., on true line, bet. secs. 20 and 29.
	Over rolling bench land, facing NE., through scattering cedar timber and short undergrowth.
23.40	Ravine, 45 ft. deep, course NE.; gently asc.
39.94	100 ft. above ravine.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S20 / S29 1917 from which
	A cedar, 20 ins.diam.,bears N.52°E., 126 lks.dist., marked ¼ S20 BT
	A cedar, 8 ins.diam.,bears S.52°W., 123 lks.dist., marked ¼ S29 BT
57.20	Low ridge, 40 ft. above ¼ cor., brs. N.30°E. and S.30°W.
	Gently desc. 40 ft. to

Chains	
79.88	The cor. of secs. 19,20,29 and 30.
	Land, rolling bench, having a general NE. exposure and drainage.
	Soil, loose, deep, sand, some gravelly and sandy loams.
	Timber, scattering cedars on mile.
	Undergrowth, sage, greasewood, yellow-top and grass.
	Good grazing land.

	N. 89°59' W., on random line, bet. secs. 19 and 30.
40.00	Set temp. ¼ sec. cor.
79.32	Intersect W. bdy. of tp. at the cor. of secs. 19,24,25 and 30, heretofore described in survey of T.43S.,R.2W.
	Thence,
	S. 89°59' E., on true line, bet. secs. 19 and 30.
	Over rolling top of bench, through scattering cedar timber and short undergrowth.
19.30	Stock trail, brs. N.40°E. and S.30°W.
39.32	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked ¼ S19/S30 1917, from which
	A cedar, 4 ins.diam., bears South, 102 lks.dist., marked ¼ S30 BT
	A cedar, 5 ins.diam., bears N.5½°E., 42 lks.dist., marked ¼ S19 BT
68.40	Small draw, 15 ft. deep, course S.30°E.
79.32	The cor. of secs. 19,20,29 and 30.
	Land, rolling and gently rolling bench, slight exposure to SE.
	Soil, deep, loose sand, some gravelly and sandy loams.
	Timber, scattering cedars on mile.
	Undergrowth, sage, greasewood, yellow-top and grass.
	Good grazing land.

	N. 0°03' W., bet. secs. 19 and 20.

Chains	
	Over rolling bench land, through scattering cedars and short undergrowth; gently asc. 70 ft. to
22.50	Low flat ridge, brs. N.70°W. and S.70°E.; leave timber, brs. same; thence over land with slight N. slope.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked

¼

S19 | S20

1917

dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist

70.25	Stock trail, brs. NE. and SW.
79.00	Re-enter scattering timber.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 17,18,19 and 20, with brass cap marked

T43S | R1W

S18 | S17

S19 | S20

1917 from which

A cedar, 8 ins.diam., bears N.17½°E., 357 lks.dist., marked T43S R1W S17 BT

A cedar, 6 ins.diam., bears S.75¾°W., 232 lks.dist., marked T43S R1W S19 BT

A cedar, 12 ins.diam., bears N.52¼°W., 130 lks.dist., marked T43S R1W S18 BT

No trees within limits in sec. 20; pits impracticable, loose sand.

Land, gently rolling bench.

Soil, loose sand, and sandy loam.

Timber, scattering cedars on S.22½ and N. 1 chs.

Undergrowth, sage, brigham-tea, yellow-top, oose & grass

Good grazing land.

N. 89°59'-E. on random line, bet. secs. 17 and 20.

40.00	Set temp. ¼ sec. cor.
79.86	Intersect N. and S. line, 2 lks. N. of cor. of secs. 16,17,20 and 21.

Thence

Chains	
	West, on true line, bet. secs. 17 and 20.
	Over rolling bench land, through scattering cedar timber and short undergrowth.
5.25	Draw, 10 ft. deep, course NE.
19.65	Draw, 15 ft. deep, course N.20°E.
33.35	Small draw, 5 ft. deep, course N.30°E.
35.00	Timber becomes more scattering, brs. N.20°E & S.70°W.
39.93	On a gentle NE. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	$\frac{1}{4}$ S17 / S20 1917 from which
	A cedar, 4 ins.diam., bears S.24¾°E., 389 lks.dist., marked ¼ S20/BT
	A cedar, 6 ins.diam., bears N.19¾°W., 231 lks.dist., marked ¼ S17/BT
69.85	Stock trail, brs. NE. and SW.
79.86	The cor. of secs. 17,18, 19 and 20.
	Land, gently rolling and rolling bench, having a slight slope and drainage to N. and NE.
	Soil, deep, loose sand, sandy and gravelly loams.
	Timber, scattering cedars on mile.
	Undergrowth, sage, greasewood, yellow-top, oose, brigham-tea and grass.
	Good grazing land.

	N. 89°59' W., on random line, bet. secs. 18 and 19.
40.00	Set temp. ¼ sec. cor.
79.32	Intersect W. bdy. of tp., 5 lks. N. of cor. of secs. 13,18,19 and 24, heretofore described in survey of T.43 S., R.2 W.
	Thence,
	N. 89°59' E., on true line, bet. secs. 18 and 19.
	Over rolling bench land, through very scattered cedars and short undergrowth.

Chains	
29.80	Draw, 20 ft. deep, course N.20°W.
36.25	Wash, 10 lks. wide, 5 ft. deep, course N.25°W.
38.00	Enter more gently rolling land, brs. NE. and SW.
39.32	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked ¼ S18 / S19 1917 from which A cedar, 7 ins.diam.,bears S.89°W., 212 lks.dist., marked ¼ S19 BT A cedar, 6 ins.diam.,bears N.45½°W., 249 lks.dist., marked ¼ S18 BT
56.00	Cross head of draw, 10 ft. deep, course N.30°W.
73.10	Draw, 10 ft. deep, course N.20°W.
79.32	The cor. of secs. 17,18,19 and 20.
	Land, gently rolling and rolling bench, having a slight slope and drainage to N.
	Soil, deep, loose sand, sandy and gravelly loams.
	Timber scattering cedars on mile.
	Undergrowth, short sage, brigham-tea, oose and grass.
	Good grazing land.

	N. 0°03' W., bet. secs. 17 and 18.
	Over rolling bench land, facing N., through very scatter cedar timber and short undergrowth.
2.00	Small draw, 10 ft. deep, course N.20°E.
20.00	Leave bench, enter rolling mountainous and broken lands, brs. E. and W.; descending.
40.00	On a SE. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in ground, for ¼ sec. cor., with brass cap marked ¼ S18 | S17 1917 from which A cedar, 7 ins.diam.,bears S.74¾°E., 176 lks.dist., marked ¼ S17 BT A cedar, 15 ins.diam.,bears N.77½°W., 211 lks.dist., marked ¼ S18 BT

Chains	
	Asc. 20 ft. to
48.50	Top of low rocky ridge, brs. SW. and N.20°E.
	Desc. abruptly, 300 ft. to
70.00	A main ravine, course N.30°E.; asc. abruptly, 260 ft. to
78.50	Top of spur, projects N.30°E.; desc. 35 ft. to
80.00	On steep NW. slope.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 7,8,17 and 18, with brass cap marked

T43S	R1W
S7	S8
S18	S17

1917

dig pits, 18 x18x12 ins., in each sec., 5½ ft. dist.

No trees within limits.

S. 20 chs. rolling top of bench; remainder rolling mountainous and broken; general face and drainage NE.

Soil, light, loose sandy and gravelly loams, and rocky.

Timber, very scattered cedars.

Undergrowth, brigham-tea, yellow-top, oose and grass.

Fair grazing land.

	East, on random line, bet. secs. 8 and 17.
40.00	Set temp. ¼ sec. cor.
79.90	Intersect N. and S., line, 2 lks. N. of cor. of secs. 8,9,16 and 17.
	Thence,
	N. 89°59' W., on true line, bet. secs. 8 and 17.
	Over rolling mountainous and broken land, through very scattered cedar timber and short undergrowth.
	Gently asc. NE. slope, 50 ft. to
20.35	Low ridge, brs. NE. and SW.; desc. 115 ft. to
34.30	Gulch, course N.30°E.; asc. abruptly 105 ft. to
39.95	On NE. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked

Chains	
	$\frac{1}{4}$ $\frac{S8}{S17}$ 1917 from which
	A cedar, 12 ins. diam., bears N.28°W., 115 lks.dist., marked $\frac{1}{4}$ S8 BT
	A cedar, 6 ins.diam., bears S.87½°E., 159 lks.dist., marked $\frac{1}{4}$ S17 BT
45.35	Spur, 100 ft. above $\frac{1}{4}$ cor., projects NE.; desc. abruptly
53.35	Main ravine, 290 ft. below spur, course N.30°E.
	Asc. abruptly, 300 ft. to
77.80	Spur, projects N.30°E.; desc. 35 ft. to
79.90	The cor. of secs. 7,8,17 and 18.
	Land, broken and rolling mountainous; exposure and drainage to NE.
	Soil, light sandy and gravelly loams and rocky; sandston formation.
	Timber, very scattered cedars.
	Undergrowth, brigham-tea, yellow-top, oose and grass.
	Fair grazing.

	S. 89°59' W., on random line, bet. secs. 7 and 18.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.08	Intersect W. bdy. of tp., 23 lks. S. of cor. of secs. 7,12,13 and 18, heretofore described in survey of T.43 S.,R.2 W.
	Thence,
	S. 89°51' E., on true line, bet. secs. 7 and 18.
	Over broken and rolling mountainous land, through very scattered cedars and short undergrowth.
	Asc. NW. slope, 30 ft. to
2.00	Top of ascent on N. slope of hill, brs. S. 50 lks. dist. to summit.; thence desc. broken E. slope, 200 ft. to
23.35	Gulch, course N.20°E.; asc. broken NW. slope, 50 ft. to
39.08	On NW. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

Chains	
	$\frac{1}{4}$ S7 / S18 1917 from which
	A cedar, 10 ins.diam., bears S.86¼°E., 25 lks.dist., marked ¼ S18 BT
	A cedar, 10 ins.diam., bears N.57½°W., 97 lks.dist., marked ¼ S7 BT
39.75	Ridge, 10 ft. above ¼ cor., brs. N.30°E. and S.70°W.
	Desc. broken NE. slope, 225 ft. to
65.50	A main ravine, course N.60°E.; asc. 175 ft. to
79.08	The cor. of secs. 7,8,17 and 18.
	Land, broken and rolling mountainous; general face and drainage to NE.
	Soil, loose sandy, gravelly, rocky and some clay.
	Timber, very scattering cedars on mile.
	Undergrowth, short sparse brigham-tea, yellow-top, oose and sage.
	Fair grazing.
	N. 0° 03' W., on random line, bet. secs. 7 and 8.
40.00	Set temp. ¼ sec. cor.
79.48	Fall 21 lks. W. of the cor. of secs. 5,6,7 and 8.
	Thence
	S. 0° 06' W., on true line, bet. secs. 7 and 8.
	Over broken, and rolling mountainous land, through very scattering cedars and short undergrowth.
39.48	On a N. slope;
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S7 | S8 1917 from which
	A cedar, 10 ins.diam., bears N.70°E., 153 lks.dist., marked ¼ S8 BT
	A cedar, 8 ins.diam., bears N.7¼°W., 282 lks.dist., marked ¼ S7 BT
	Asc.
57.65	Ridge, 120 ft. above ¼ cor., brs. NE. and S.70°W.

Subdivision of T. 43 S., R. 1 W.

Chains

Desc. abruptly, 230 ft. to

70.10 Main ravine, course N.60°E.; asc. abruptly, 190 ft. to

79.43 The cor. of secs. 7,8,17 and 18.

Land, broken, and rolling mountainous; general E. and NE face and drainage.

Soil, loose sand, sandy and gravelly loams, some rocky and clay.

Timber, very scattering cedars.

Undergrowth, brigham-tea, yellow-top, oose and sage.

Fair grazing.

Latitudes, departures, and closing errors.

Lines designated	True bearing	Distances	Latitudes N	Latitudes S	Departures E	Departures W
		chs.	chs.	chs.	chs.	chs.
S bdy of tp.	East	479.70			479.70	
E bdy of tp.	North	316.25	316.25			
Closing dist.	N.0°15'E	3.74	3.74		.02	
N bdy sec 13	S.89°48'W	80.08		.28		80.08
E bdy sec 11	N.0°07'E	76.92	76.92		.16	
N bdy sec 11	West	80.00				80.00
N bdy sec 10	N.89°24'W	80.64	.84			80.64
N bdy sec 9	S.89°16'W	60.09		.77		60.09
" " " "	N.89°50'W	19.85	.06			19.85
N bdy sec 8	N.89°50'W	39.71	.124			39.71
" " " "	N.86°54'W	40.22	2.18			40.16
N bdy sec 7	N.89°44'W	79.29	.37			79.29
W bdy of tp.	South	399.87		399.87		
Convergency						.44
			400.48	400.92	479.88	480.26
				400.48		
Error in latitude				0.44		
Error in departure						479.88
						0.38

General Description of T.43 S.,R.1 W.

The portion of this township as surveyed by us contains rolling bench lands, rough and broken lands, and high sandstone breaks. The largest bench in the central part extending from Paria river to W. bdy. is known as West Clark Bench. The southern rim of this bench is a high red barren sandstone break, 200 to 600 ft. high

and extending from the Paria river in a westerly direction, leaving the tp. in sec. 31. Under this break is a lower sandy bench (locally as the"Dive") sloping S. to the Buckskin Gulch. In the NW. part of tp., rough and broken lands prevail, while to the east of Paria river,rolling and broken benches, with sandstone breaks are found.

The soil is principally a deep, fine, dry, loose sand, with some light,dry sandy and gravelly loams, while along the breaks and canyons barren red sandstone bedrock and ledges are found.

Paria river, a stream having an average width of about 60 lks. and depth of 2 ft., flows through the eastern part of the tp. in a southerly course, entering in sec. 3 and leaving it in sec. 36. This contains the only water in the tp., with the exception of a small dripping seep,of good water, located in a gulch in W. edge of Paria canyon in the NW. ¼ of sec. 15. The water in Paria river contains considerable alkali and is very muddy. The river is subject to numerous floods during the greater part of year. The canyon through which the river flows boxes in sec. 14; there being only one place that stock can get out of canyon below this point, near sec. line bet. secs. 25 and 36; from here ~~the~~ it narrows to a chasm with perpendicular walls, attaining a depth of nearly 1000 ft.

Buckskin Gulch, dry, is a narrow impassable chasm, 1 to 3 chs. wide and 400 to 800 ft. deep, drains the SW. part of tp. in an easterly direction through secs. 31-32 and 33.

A scattering growth of scrub cedars,with few pinon pine timber is found throughout the greater part of tp. The tp. is covered with short undergrowth of sagebrush, greasewood, brigham-tea, yellow-top, oose and bunch-grass,

Chains	
	and affords fairly good grazing. For which purpose the tp. is now being used.
	No indication of mineral nor oil were found in the tp.
	There are no settlers living in the tp.

WATER LOCATIONS in T.43 S.,R.1 W.

Paria River:

N. ½ of NW ¼; SE¼ of NW¼; SW¼ of NE¼; and SE¼ of sec. 10.

E½ of NE ¼; NE¼ of SE¼ of sec. 15.

W½ of SW¼ sec. 14.

NW¼; SW¼ of NE¼; W½ of SE¼ of sec. 23.

N½ of NE¼ of sec. 26.

W½ of W½ of NW¼; W½ of W½ of SW¼ of sec. 25.

W½ of NW¼ of NW¼; SW¼ of NW¼; NE¼ of SW¼; and

SW¼ of SE¼ of sec. 36.

Spring:

SW¼ of NE¼ of sec. 15.

Andrew Nelson

U.S. Transitman

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Page

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BOOK A-437

FIELD ASSISTANTS.

NAMES.	CAPACITY.
Frank Romney	Head Chainman
Lacell Bird.	Hedd Chainman
James Hill	Rear-Chainman
Wayne Clark	Rear-Chainman
Harold Evans	Cornerman
Wilfred Williams	Cornerman
James Stewart	Flagman
Richard Huntington	Flagman
Lacell Bird	Axman
Frank R. Clark	Axman

The above assistants were employed in the execution of survey of T.43 S., R.1 W.

6—4704

TRANSITMEN

CERTIFICATE OF UNITED STATES ~~SURVEYOR~~.

We Andrew Nelson & Elliot Bird U.S. Transitmen ~~U. S. Surveyor~~, hereby certify upon honor that, in pursua

of special instructions received from the U. S. Surveyor General for Utah

bearing date of the 1st day of Feb., 1916, We have well, faithfully, and t

in our own proper persons and in strict conformity with said instructions, the Manual of Surveying Inst

tions, and the laws of the United States, surveyed all those parts or portions of Retracement and

Resurvey of part of Subdivision; survey of the South boundary;

survey of part of the Salt Lake Meridian, through T.43 S.; and

survey of part of the Subdivision of

T.43 S., R.1 W.

of the Salt Lake

Base and Meridian, in the State of Utah, which are represente

and date diagram on page one on dates as shown on date d

the foregoing field notes as having been executed by us, and under our direction; and that all the corne

said survey have been established and perpetuated in strict accordance with the Manual of Surveying Inst

tions, 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 not

such survey.

Andrew Nelson

Elliot Bird

U. S. Surv

Tran

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, December 18, 1

The foregoing field notes of the ~~survey of~~ retracement and resurvey of part of t

subdivision; survey of the south boundary; survey of part of the Sal

Lake Meridian, through Township No. 43 South; and survey of part of

subdivision of Township No. 43 South, Range No. 1 West of the Salt L

Base and Meridian, Utah,

executed by Andrew Nelson and Elliot Bird

under his special instructions dated February 1, 1916, ~~191~~, having

critically examined, and the necessary corrections and explanations made, the said field notes and the sur

they describe, are hereby approved. retracements, resurveys and surveys

A. O. Thomson

U. S. Surveyor Ge

I certify that the foregoing transcript of the field notes of the above-described surveys in

, has been correctly copied from the original notes on file in this office.

U. S. Surveyor Ge

6—2764

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Page

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Page

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BOOK A-437

E.

U. S. Surveyor General's Office
MAR 1 1918
SALT LAKE CITY, UTAH

FIELD NOTES

OF THE SURVEY OF THE

East boundary and subdivision of T.44 S., R.2 W.,
and retracement of the Utah-Arizona State
Boundary and establishment of ¼ sec.
cors. for T. 44 S., R. 2 W.

Of the Salt Lake Base and *Meridian,*

In the State of Utah

EXECUTED BY

Howard W. Miller

In the capacity of U. S. Surveyor, *under instructions dated* February 1, *1916,*
issued by the United States Surveyor General to govern surveys included in
Group No. 50, *which were approved by the Commissioner of the General Land*
Office, March 25, *1916*

Assignment instructions dated May 5,1917.

Survey commenced July 4, *1917*

Survey completed August 2, *1917*

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Examinations Classified

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

B Computations F.B.J.

C Comparing Plat E.B.B. Notes V.I.F.

BOOK A-437

INDEX DIAGRAM.

Township 44 south, *Range* 2 west.

6 20 22	5 16 21	4 12 18	3 9 14	2 5 10	1 3 7
23 7 110M	19 8 111M	15 9 112M	11 10 113M	8 11 114M	4 12 115M
24 27	24 27	25 28	25 29	26 31	26 31
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

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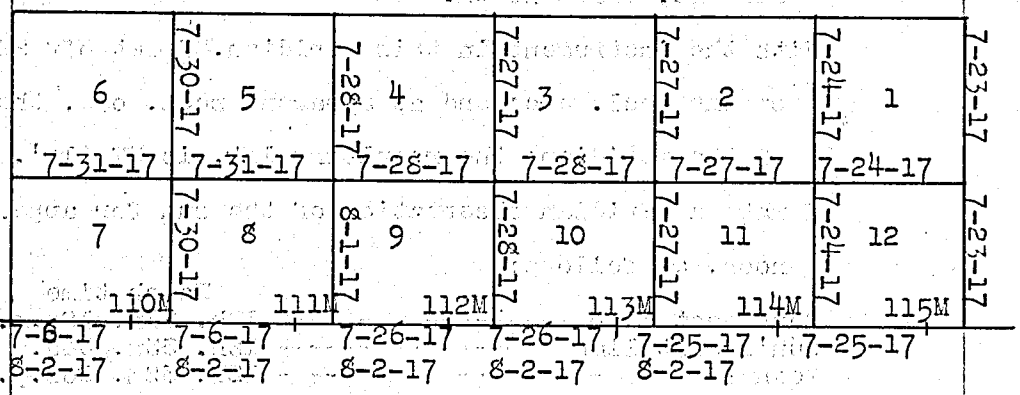
INDEX DIAGRAM.

Township 44S, Range 2W.

6 292 294	5 288 293	4 284 290	3 281 286	2 277 281	1 275 279
7 295 110 mi	8 291 111 mi	9 287 112 m	10 283 113 m	11 280 114 m	12 276 115 mi.
296 299	296 299	297 300	297 301	298 303	298 303
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

6—4817

Date diagram, T.44 S.,R.2 W.



Utah Arizona State Boundary

Survey commenced July 4,1917 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 verniers of the lat. and decl. arcs, and vertical circle.

The instrument was approved for use in this survey by the Assistant Supervisor of Surveys for Utah, in assignment instructions dated May, 5,1917

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

East boundary of T.44 S.,R.2 W.

chains

At my camp which is situated near the ¼ sec. cor. bet. secs. 4 and 33 on the N. bdy. of the tp., approximate lat. 37°01½'N., longitude 112°05'W.; At 8h. a.m. apparent time, I set off 37°01½' on the lat. arc; 22°55'N., on the decl. arc; and determine a meridian with the solar and find that a rock about 15 chs. distant, bears North.

With the instrument in this meridian, I set off 22°54' N on the decl. arc; and at apparent noon, obs. the sun on the meridian; the resulting lat. is 37°01½'.

I make a meridian observation of the sun for apparent noon, as follows:

	Watch time
Suns west limb	12h. 31m. 18s.p.m.
Sun's east limb	12h. 33m. 34s.
Mean	12h. 32m. 26s.p.m.

Apparent noon July 4,1917	12h. 00m. 00s.
Equation of time to be added to apparent time	04m. 06s.
L.mt. of apparent noon	12h. 04m. 06s.
Watch time of apparent noon	12h. 32m. 26s.p.m.
Watch fast of l.m.t.	28m. 20s.

At 4h. p.m. apparent time, I set off 37°01½' on the lat. arc; 22°53'N., on the decl. arc; and determine a meridian with the solar and find that the rock bears North.

At 7h. 53m.p.m. by my watch, which is 28 minutes 20 seconds. fast of l.m.t., I begin to observe Polaris and note as my reference point the rock used in the solar observations made this date.

	Rock	Star	Watch time
Tel. direct			
	0°00'00"	0°17'E.	7h.53m.00s.
	0°00'00"	0°17'E.	7h.54m.00s.
Tel. reversed			
	0°00'00"	0°17'E.	7h.54m45s.
	0°00'00"	0°17'E.	7h.55m.30s.
Mean	0°00'00"	0°17'E.	7h.54m.19s.

Watch time of obsn. July 4	7h.54m.19s.
Watch fast	28m.20s.
L.m.t., of obsn.	7h.25m.59s.
U.C.Polaris July 5,1917	6h.39m.36s.a.m.
Corrected for long. of station, sub.	1m.12s.
L.m.t. of U.C.Polaris at station	6h.38m.24s.a.m.
Hour angle of Polaris at obs.	11h.12m.25s.
Azimuth of Polaris at obsn.	0°17'E.

chains	
	The bearing of the rock is therefore North. July 4,1917.
	July 7,1917: The bearing of the true meridian at 7h.30 m.a.m. apparent time is N.15°30'W., the angle thus determined gives the magnetic declination 15°30'E.
	The instrument was kept in good adjustment during the progress of the survey, having tested it frequently on the above described Polaris meridian at my camp.
	Measurements A steel tape, 5 chs. long, was used in all the measurements in this township, 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 true cor. point for cor. of Tps. 43 and 44 S.,Rs. 1 and 2 W., described in the field notes of the survey of T.43 S.,R.2 W.; approximate latitude 37°01½'N., longitude 112°00' W. Thence I run South, on true line bet. secs. 1 and 6. Over rough mountainous land. Ascend abruptly over red sandstone ledges and bed rock from brink of Buckskin Gulch.
4.20	Top of ledges, 125 ft. above cor., bears E. and W.; thence gradually ascend over rolling bench land sloping N., through deep, red sand, scattering cedar and pinon timber and undergrowth of sagebrush. Considerable amount of sandstone buttes and outcroppings on bench.
40.00	230 ft. above tp. cor. 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

East boundary of T.44 S.,R.2 W.

chains

$\frac{1}{4}$

S1 | S6

1917

from which

A cedar, 12 ins.diam.,bears S.43$\frac{1}{2}$°E., 51 lks. dist.,marked $\frac{1}{4}$ S 6 B T

A cedar, 8 ins.diam.,bears S.58$\frac{1}{4}$°W., 104 lks. dist.,marked $\frac{1}{4}$ S 1 B T

Continue ascent.

80.00 170 ft. above $\frac{1}{4}$ sec. cor.

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

T44S

R2W	R1W
S1	S6
S12	S7

1917

from which

A cedar, 16 ins.diam.,bears N.19$\frac{1}{4}$°E., 317 lks. dist.,marked T 44 S R 1 W S 6 B T

A cedar, 16 ins. diam.,bears S.52°W., 180 lks. dist.,marked T 44 S R 2 W S 12 B T

A cedar, 16 ins.diam.,bears N. 34$\frac{1}{2}$°W., 175 lks. dist.,marked T 44 S R 2 W S 1 B T

No tree available in sec. 7.

I am unable to find stone for mound and as cor. stands in deep, loose sand, I do not dig pits.

Land, rolling and broken benches; N. exposure and drainage.

Soil, deep, loose, red sand and sandstone rock; on sandstone bedrock about 3 ft. under surface.

Timber, scattering scrub cedar and pinon.

Undergrowth, sagebrush. Fair grazing.

South, bet. secs. 7 and 12.

Over rolling bench land through deep sand, scattering scrub cedar and pinon timber and undergrowth of sagebrush. Gradually ascend.

East boundary of T. 44 S., R. 2 W.

chains	
27.25	Top of sandy ridge from high sandstone pinnacles to the NE., bears NE. and SW., 65 ft. above sec. cor.; descend into small basin.
31.03	Intersect the Utah - Arizona State Boundary line, 20.07 chs. east of the 115 th. mile cor. hereinafter described.

At intersection,

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for closing cor. of Tp. 44 S., Rs. 1 and 2 W., with brass cap marked

U
C C
T 44 S
R2W | R1W
S12 | S7
A
1917

from which

A cedar, 8 ins. diam., bears N. 79¾°E., 270 lks. dist., marked C C T 44 S R 1 W S 7 B T

No other trees available.

Stone cannot be obtained within a reasonable distance for mound and as cor. stands in deep sand, I do not dig pits.

Land, rolling; general N. exposure and drainage.

Soil, deep, loose red sand and sandstone rock.

Timber, a few scattering scrub cedar and pinon.

Undergrowth, sagebrush and sand grass. Fair grazing.

Subdivision of T. 44 S., R. 2 W.

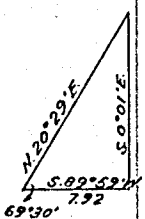
From the cor. of secs. 1, 2, 35 and 36 on the N. bdy. of the tp., heretofore described, I run

S. 0°01'E., bet. secs. 1 and 2.

Over rolling and broken bench lands, gradually descending through deep sand, scattering cedar and pinon timber and undergrowth of sagebrush.

27.00	Leave deep sand and enter broken sandstone outcroppings,

chains	
	bears NE. and SW.; begin steeper descent towards Buckskin Gulch.
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 S2 | S1 1917 from which A cedar limb, 8 ins.diam.,bears N.43°E., 229 lks. dist.,marked ¼ S 1 B T A cedar, 15 ins.diam.,bears S.41½°W., 211 lks. dist.,marked ¼ S 2 B T
50.78	N. brink of Buckskin Gulch, a narrow gorge cut in solid sandstone and about 500 ft. deep, bears NE. and W. I triangulate across gulch as follows: Set a flag on line on south side of gulch and also erect a flag at this point. Then from south flag measure a base, S.89°59'W., 7.92 chs. where flag on N. brink bears N.20°29'E., therefore tan. 69°30' x base or 2.674 x 7.92 chs. gives
71.96	To point of triangulation.
	The approximate topography from the 50.78 chs. point is as follows: Descend abruptly into Buckskin gulch.
56.00	Bottom of gulch, course E. for about 10 chs.; thence NE. Ascend over ledges.
65.00	Top of S. brink of gulch, bears E. and W.; thence ascend through deep sand over rolling bench sloping N.
71.96	Point of triangulation.
80.00	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 cor. of secs. 1,2,11 and 12, with brass cap marked T44S | R2W S2 | S1 S11 | S12 1917



chains	
	from which
	A cedar, 12 ins.diam.,bears N.50½°E., 27 lks. dist.,marked T 44 S R 2 W S 1 B T
	A cedar limb, 10 ins.diam.,bears S.57½°E., 57 lks dist.,marked T 44 S R 2 W S 12 B T
	A cedar, 16 ins.diam.,bears S.32°W., 77 lks. dist.,marked T 44 S R 2 W S 11 B T
	A cedar, 10 ins.diam.,bears N.6°W., 54 lks. dist.,marked T 44 S R 2 W S 2 B T
	Land, rolling benches, slope and drain N. and S. to Buckskin Gulch.
	Soil, deep, loose red sand and sandstone rock.
	Timber, scattering scrub cedar and pinon.
	Undergrowth, sagebrush and sand grass.
	East, on a random line bet. secs. 1 and 12.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect E. bdy. of the tp., 5 lks. N. of the cor. of secs. 1,6,7 and 12.
	Thence
	N.89°58'W., on true line bet. secs. 1 and 12.
	Over broken benches draining N., through scattering scrub cedar and pinon timber, sagebrush undergrowth and through deep sand. Numerous sandstone buttes and outcroppings on bench.
40.00	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 S1 / S12 / 1917
	from which
	A cedar, 12 ins.diam.,bears S.42½°W., 101 lks. dist.,marked ¼ S 12 B T
	A cedar, 7 ins.diam.,bears N.37°W., 37 lks. dist.,marked ¼ S 1 B T
58.50	Descend over small sandstone reef, bears N. and S.

Subdivision of T.44 S.,R.2 W.

chains	
80.00	The cor. of secs. 1,2,11 and 12, 75 ft. below ¼ sec.cor.
	Land, rolling and broken benches; N. exposure and drainage.
	Soil, deep, loose, red sand and sandstone rock. Bed rock close to surface.
	Timber, scattering scrub cedar and pinon.
	Undergrowth, sagebrush and sand grass.
	S.0°01'E., on true line bet. secs. 11 and 12.
	Over broken bench land sloping N., through deep, loose red sand, scattering scrub cedar and pinon timber and sagebrush undergrowth. Gradually ascend.
31.14	235 ft. above sec.cor.
	Intersect the Utah - Arizona State boundary line, 20.29 chs., N.89°58'E., of the 114 th. mile cor. hereinafter described.
	At intersection,
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 11 and 12, with brass cap marked

U
CC
T44S | R2W
S11 | S12
A
1917

from which

A cedar, 15 ins.diam.,bears N.60½°E., 134 lks. dist.,marked C C T 44 S R 2 W S 12 B T

A cedar, 10 ins.diam.,bears N.42¼°W., 177 lks. dist.,marked C C T 44 S R 2 W S 11 B T

Land, rolling and broken bench; N. exposure and drainage.

Soil, deep, loose, red sand and sandstone rock. Bed rock close to surface.

Timber, scattering scrub cedar and pinon.

Undergrowth, sagebrush and sand grass.

chains

From the cor. of secs. 2,3,34 and 35 on the N. bdy. of the tp. heretofore described.

S.0°01'E., bet. secs. 2 and 3.

Over broken bench land sloping SW. to Buckskin Gulch, through deep sand, scattering scrub cedar and pinon timber and sagebrush undergrowth. Descend,

.25 Wash, in bottom of draw at base of West Clark bench, 25 lks. wide, 3 ft. deep, course NW.; ascend.

4.80 Sand spur, 35 ft. above wash, projects NW.; descend.

12.00 Shallow draw, 40 ft. below spur, course S.80°W.; thence over broken land, descending towards Buckskin Gulch.

36.00 Leave deep sand and enter sandstone outcroppings and buttes, bears E. and W.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground on solid rock and 20 ins. in a mound of stone for ¼ sec. cor., with brass cap marked

S3 | S2

1917

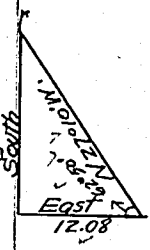
from which

A cedar, 15 ins. diam., bears S.86°E., 349 lks. dist., marked ¼ S 2 B T

A pinon, 10 ins. diam., bears N.81°W., 201 lks. dist., marked ¼ S 3 B T

44.20 Shallow wash, course SW.

56.34 Top of ledges on N. side of Buckskin Gulch, across which I cannot chain, I therefore triangulate as follows: Being unable to secure a base line at this point, I set a flag south on the south side of gulch from which a base line can be measured and also erect a flag at this point. From the south flag, I measure a base east, 12.08 chs. to a point where N. flag bears N. 27°10'W., therefore tan. 62°50' x base or 1.94858 x base or 12.08 chs. gives 23.54 chs. which added to 56.34 chs. makes



79.88 To point of triangulation. I now offset ¾ lk. E. to be

Subdivision of T.44 S., R.2 W.

chains

on true line.

The approximate topography from the 56.34 chs. point is as follows:

Descend abruptly into Buckskin Gulch.

62.35 Buckskin Gulch, a narrow gorge cut in solid sandstone, about 400 ft. deep, course E. Numerous sandstone pinnacles on both sides of gulch.

70.00 Low, sandy point, projects E. Thence over broken bench lands sloping N.

75.00 Wash, 30 ft. below point, 30 lks. wide, 3 ft. deep, course NE.; ascend.

79.88 Point of triangulation.

80.00 50 ft. above wash. Point for cor. of secs. 2,3,10 and 11 falls on solid sandstone bedrock sloping N. Mark X on bedrock for exact position of cor. and over cross; Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a mound of stone for cor. of secs. 2,3,10 and 11, with brass cap marked

T44S	R2W
S3	S2
S10	S11

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

Land, rough, broken benches; general N. and S. exposure and drainage to Buckskin Gulch which drains E.

Soil, patches of deep, loose, red sand and sandstone bedrock.

Timber, a few scattering scrub cedar and pinon.

Undergrowth, sagebrush and sand grass.

East, on a random line bet. secs. 2 and 11.

40.00 Set temp. ¼ sec. cor.

79.90 Intersect N. and S. line, 3 lks. S. of the cor. of secs. 1,2,11 and 12.

Thence

S.89°59'W., on true line bet. secs. 2 and 11.

chains	
	Over rolling and broken bench through deep sand, scattering scrub cedar and pinon timber and sagebrush undergrowth. Gradually descend.
16.15	Shallow draw, 15 ft. below cor., course NE.; gradually ascend.
21.65	Leave deep sand and enter sandstone buttes and bedrock, bears N. and S.
32.40	Top of buttes and solid sandstone ridge, bears N. and S., 50 ft. above draw.; descend abruptly.
39.90	Base of buttes and leave solid sandstone bedrock, 85 ft. below top, bears N. and S.; descend through deep sand.
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 $\frac{1}{4}\ \frac{S2}{S11}\ 1917$
	from which
	A cedar, 5 ins.diam.,bears N.27½°E., 96 lks. dist.,marked ¼ S 2 B T
	A cedar, 10 ins.diam.,bears S.29°E., 191 lks. dist.,marked ¼ S 11 B T
56.90	Sandy draw, 80 ft. below ¼ sec. cor., course NW.; ascend.
65.80	Low sandy point, 50 ft. above draw, projects N.; descend over NW. slope 65 ft. to
79.90	The cor. of secs. 2,3,10 and 11.
	Land, rolling and broken benches, N. exposure and drainage.
	Soil, deep, loose, red sand and solid bedrock ; sandstone formation.
	Timber, a few scattering cedars and pinon pine.
	Undergrowth, sagebrush and sandgrass.

	S.0°01'E., on true line bet. secs. 10 and 11.
	Over, rough, broken, rocky bench lands, through very scattering scrub cedar and pinon timber and sagebrush undergrowth. Ascend abruptly over solid sandstone.
1.60	Top of steep ascent, bears NE. and SW.; thence over broken ground.

Subdivision of T.44 S.,R.2 W.

chains	
14.95	Wash, 15 lks. wide, 3 ft. deep, course NE.; ascend abruptly.
24.40	Top of sandstone pinnacle, 120 ft. above wash and 200 ft. above sec. cor., bears NE., and SW. for 75 lks. where it forms a ledge reef bearing N.2°W. and S.2°E.; thence along W. side of sandstone reef.
31.29	Intersect Utah - Arizona State boundary line, 20.06 chs. N.89°56'E., of the 113 th. mile cor. hereinafter 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. 10 and 11, with brass cap marked

U
CC
T44S | R2W
S10 | S11
A
1917

from which

A cedar, 8 ins. diam., bears N.15½°E., 157 lks. dist., marked C C T 44 S R 2 W S 11 B T

A cedar, 14 ins. diam., bears N.23°W., 134 lks. dist., marked C C T 44 S R 2 W S 10 B T

Cor. stands at base, on west side of low sandstone reef.

Land, rough, broken sandstone benches, general N. exposure and drainage.

Soil, chiefly sandstone bedrock with patches of deep, loose, red sand.

Timber, very scattering scrub cedar and pinon.

Undergrowth, sagebrush and sandgrass.

From the cor. of secs. 3,4,33 and 34 on the N. bdy. of the tp. heretofore described,

S.0°02'E., bet. secs. 3 and 4.

Over mountainous land through very scattering cedar and pinon timber and undergrowth of sagebrush and sandgrass. Ascend over NE. slope from Coyoto Wash.

chains

8.40 Top of S. brink of Coyoto Wash, 85 ft. above sec. cor., bears NW. and SE. for about 5 chs. thence NE.; gradually ascend along eastern slope of ridge through deep sand.

28.90 Top of ascent, 190 ft. above sec. cor., bears E. and W. Gradually descend.

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

from which

A cedar, 8 ins.diam.,bears S.45½°E., 117 lks. dist.,marked ¼ S 3 B T

A cedar, 18 ins.diam.,bears N.83½°W., 83 lks. dist.,marked ¼ S 4 B T

47.80 Shallow draw, 50 ft. below ¼ sec. cor., course E. about 15 chs. to junction with large draw draining N. Gradually ascend 75 ft. to

80.00 On E. slope.

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

T44S	R2W
S4	S3
S9	S10

1917

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

Land, mountainous; general N. exposure and drainage to Coyoto Wash which drains E.

Soil, deep, loose, red sand with patches of sandstone bedrock.

Timber, very scattering scrub cedar and pinon.

Undergrowth, sagebrush and sandgrass.

Subdivision of T.44 S.; R.2 W.

chains	
	East, on a random line bet. secs. 3 and 10.
	The line east passes over sandstone ledges and pinnacles up which I cannot chain or triangulate, I therefore offset as follows:
	North, 3.00 chs.; then, on offset line:
	East, 11.89 chs.; then
	South, 3.00 chs. to the random line, on which at
40.00	Set temp. ¼ sec. cor.
80.30	Intersect N. and S. line 12 lks. N. of the cor. of secs. 2,3,10 and 11.
	Thence
	N.89°55'W., on true line bet. secs. 3 and 10.
	Over broken mountainous bench land through very scattering scrub cedar and pinon timber and undergrowth of sagebrush. Gradually descend over nearly N. slope.
8.30	Wash, 30 lks. wide, 3 ft. deep, in draw, 25 ft. below cor., course NE.; ascend abruptly over solid sandstone bedrock.
16.30	Top of sandstone ridge, 150 ft. above wash, bears N.20°E. and S.20°W.; descend abruptly.
23.00	"Sand Wash", at base of sandstone ridge, 20 lks. wide, 10 ft. deep, 65 ft. below top of ridge, course N. Thence over broken sandstone bench land, gradually ascending. Numerous small water pockets on bench.
40.15	On broken sandstone bench, 50 ft. above wash. 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 S3/S10 1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
54.70	Begin steep ascent over bare sandstone ridge.
68.41	Top of sandstone ridge, bears N.30°E. and S.30°W., 225 ft. above ¼ sec. cor.
	Thence offset, north 3.00 chs.; then run on offset line N.89°55'W.

Subdivision of T.44 S.,R.2 W.

chains	
76.35	Descend abruptly over sandstone ledges. (on offset line) Base of ledges and draw, 355 ft. below top, course N.10°E.; ascend abruptly 60 ft. to
80.30	(On offset line) Thence offset south 3.00 chs. to
80.30	The cor. of secs. 3,4,9 and 10.

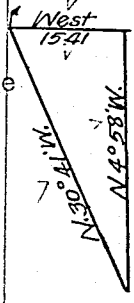
Land, rough mountains, broken sandstone benches and slopes.
Soil, small quantities of loose, red sand; surface generally bare sandstone.
Timber, a few scattering scrub cedar and pinon.
Undergrowth, sagebrush and sandgrass.

S.0°02'E., on true line bet. secs. 9 and 10.

Over rough mountainous land draining N., through deep sand. About 15 chs. south of this cor. is the bottom of a draw from the SW. and draining NE.; south of the draw the line passes over high ledges, crags and pinnacles up which it is impossible to chain, I therefore triangulate from the sec. cor. as follows:

It is possible to set a point on line on the Utah - Arizona bdy. but as said point can be seen only from points on line bet. secs. 9 and 10 and it being impossible to make a tie to it from a cor. on the State bdy., a witness cor. will be necessary for the closing cor. of secs. 9 and 10. The cor. can be established nearest to its true point, on the Utah-Arizona State bdy. I proceed to establish same as follows:

From the cor. of secs. 3,4,9 and 10, measure a base line West, 15.41 chs. I now place my transit on a high ledge point or spur near the State bdy., from which point the cor. of secs. 3,4,9 and 10 bears N.4°58'W. and the west end of the base bears N.30°41'W., therefore



Log 15.41	=	1.187803
Logsin 59°19'	=	9.934499
Cologsin 25°43'	=	0.362589
Log 30.54 chs.	=	1.484891

The true southing is 30.43 chs. and the easting is

Subdivision of T.44 S.,R.2 W.

chains	
	2.64 chs. I now measure south .95 chs. and east .08 chs. to
31.36	A point 2.72 chs. east of the true line bet. secs. 9 and 10 where I intersect the Utah - Arizona State bdy. 24.54 chs. east of the 112 th. mile cor. hereinafter 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 witness cor. to the closing cor. of secs. 9 and 10, with brass cap marked
	U WC CC T44S | R2W S9 | S10 A 1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Land, rough mountainous; general N. exposure and drainage
	Soil, deep, loose, red sand and sandstone bedrock.
	No timber.
	Undergrowth, scattering sagebrush.

	From the cor. of secs. 4,5,32 and 33 on the N. bdy. of the tp. heretofore described, I run
	S.0°03'E., bet. secs. 4 and 5.
	Over mountainous land through scattering cedar and pinon timber and undergrowth of sagebrush. Gradually descend along broken E. slope near foot of Buckskin mountains.
8.15	Small gully and wash, 10 lks. wide, 3 ft. deep, course S.80°E., 55 ft. below sec. cor.; ascend.
13.20	Ridge spur, 45 ft. above gully, projects SE.; descend.
21.00	Gully and wash, 15 lks. wide, 3 ft. deep, 90 ft. below spur, course SE.; ascend over broken E. slope.
34.50	Spur, 35 ft. above gully, projects E.; descend.
40.00	On SE. slope, 25 ft. below spur.

chains	
	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 S5 | S4 1917 from which A cedar, 12 ins.diam., bears S.61¾°E., 117 lks. dist.,marked ¼ S 4 B T A cedar, 14 ins. diam.,bears N.55½°W., 91 lks. dist.,marked ¼ S 5 B T
56.50	Wash, 30 lks. wide, 10 ft. deep, 25 ft. below ¼ sec. cor., course N.80°E.; wash flows through a small gap in ridge bearing N.10°W. and S.10°E., west of line. Ascend.
65.75	Top of ridge, 45 ft. above wash, bears NW. and SE.; descend abruptly SW. slope over huge boulders.
74.35	Pine Hollow wash, at base of ridge; 30 lks. wide, 3 ft. deep, 80 ft. below ridge, course SE.; thence over nearly level ground.
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 T44S | R2W S5 | S4 S8 | S9 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, low broken foothills, general E. exposure and drainage to Coyoto wash which drains N. Soil, gravelly and rocky of limestone formation and mixed with some shallow loam soil; on hard, dry clay and rocky sub-soil. Timber, scattering patches of cedar and pinon on mile Undergrowth, sagebrush. ----------

290

Subdivision of T.44 S.,R.2 W.

chains	
	East, on a random line bet. secs. 4 and 9.
40.00	Set temp. ¼ sec. cor.
79.80	Intersect N. and S. line 12 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 rough mountainous land through scattering cedar and pinon timber and sagebrush undergrowth. Ascend abruptly E. slope of ridge through deep sand.
8.70	Enter broken red sandstone ledges, bears N. and S.
11.30	Leave ledges, bears N. and S.
22.30	Ridge, 385 ft. above sec. cor., bears N. and S.; descend abruptly over ledges.
32.90	Gulch, 100 ft. below ridge, course N.; ascend abruptly over ledges 75 ft. to
38.94	The 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., 26 ins. in a mound of stone on solid rock for witness cor. to the ¼ sec. cor., with brass cap marked
	WC S4 / ¼ S9 / 1917
	from which
	A cedar, 6 ins.diam.,bears N.6½°E., 35 lks. dist.,marked W C ¼ S 4 B T
	A cedar, 6 ins.diam.,bears S.21½°E., 91 lks. dist.,marked W C ¼ S 9 B T
	The true point for ¼ sec. cor. bears N.89°55'W., 96 lks. distant.
39.90	Point for ¼ sec. cor. on ledge where cor. cannot be set.
40.05	Top of sandstone ledge and ridge, bears N. and S.; descend abruptly west slope of mountain over red sandstone ledges and huge boulders.
56.95	Base of mountain, 500 ft. below ridge and leave ledges and boulders and timber, bears N. and S. Thence over rolling valley

Subdivision of T.44 S.,R.2 W.

chains	
65.00	Wash, 50 lks. wide, 6 ft. deep, course N.; gradually ascend.
71.30	Wire fence, bears N.85°W. about 50 lks. to point of ledge and S.85°E.
72.00	Low rocky point at the north end of a low red and white sandstone reef, bears S. and N. about 50 lks. N. Coyoto wash, cuts through a gap about 1 ch. north and flows nearly E. for about 10 chs., thence N. ; gradually descend.
76.50	Coyoyto wash, in bottom of valley, 1 ch. wide, 8 ft. deep, course NE. about 2 chs. thence E. Old road, from Fahreah to Lee's Ferry, bears NE. and SW.
79.80	The cor. of secs. 4,5,8 and 9.
	Land, E. 56.95 chs., rough mountainous, remainder of mile rolling. General N. exposure and drainage.
	Soil, of mountainous land, rocky and deep, loose red sand, sandstone formation; soil of valley, sandy loam streaked with sandstone rock; on hard, dry, sandy clay sub-soil.
	Timber, scattering scrub cedar and pinon on eastern portion of mile.
	Undergrowth, sagebrush.

	S.0°03'E., on true line bet. secs. 8 and 9.
	Over rolling valley draining E., through dense sagebrush.
9.50	Coyoto wash, 1 ch. wide, 6 ft. deep, course NE. Old road, Fahreah to Lee's Ferry in wash, bears NE. and SW.
17.00	Same wash, course NW., road also bears NW. and SE.
26.50	Same wash, course NE., road also bears NE. and SW.
31.66	At base of low red and white sandstone reef bearing N. and S.
	Intersect Utah-Arizona State boundary line, 21.97 chs. east of the 111 th. mile cor. hereinafter described.
	At intersection,
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 8 and 9, with

Subdivision of T.44 S.,R.2 W.

chains

brass cap marked

U
CC
T44S | R2W
S8 | S9

A
1917

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

Land, rolling, drains N.

Soil, red sandy clay loam; on dry sandy clay sub-soil.

No timber.

Undergrowth, sagebrush.

From the cor. of secs. 5,6,31 and 32 on the N. bdy. of the tp. heretofore described.

S.0°03'E., bet. secs. 5 and 6.

Over rough mountainous land through cedar and pinon timber and undergrowth of sagebrush and juniper. Descend.

1.60 Draw, 20 ft. below cor., course NE.; ascend.

4.50 High ridge spur, 35 ft. above draw, bears E. and W. Descend abruptly S. slope into Pine Hollow, over series of limestone ledges and boulders.

40.00 On S. slope, 675 ft. below ridge.

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
S6 | S5
1917

from which .

A pinon, 6 ins.diam.,bears N.73°E., 68 lks. dist.,marked ¼ S 5 B T

A cedar, 8 ins.diam.,bears S.44¾°W., 73 lks. dist.,marked ¼ S 6 B T

Continue descent.

45.00 Bottom of Pine Hollow and wash, 30 lks. wide, 10 ft. deep, 200 ft. below ¼ sec. cor., course E.; ascend

chains	
	abruptly over series of limestone ledges.
59.15	Spur, 500 ft. above wash, projects N.80°E.; descend abruptly.
63.60	Gulch, 50 ft. below spur, course E.; ascend abruptly.
67.45	Spur, 25 ft. above gulch, projects E.; descend abruptly.
77.06	Gulch, 135 ft. below spur, course E.; ascend abruptly.
80.00	Spur, 105 ft. above gulch, projects E.
	Set an iron post, 3 ft. long, 2 ins.,in dia., 24 ins. in a mound of stone on solid rock for cor. of secs. 5,6,7 and 8, with brass cap marked

T44S	R2W
S6	S5
S7	S8

1917

from which

A cedar, 8 ins.diam.,bears N.59½°E., 152 lks. dist.,marked T 44 S R 2 W S 5 B T

A pinon, 8 ins.diam.,bears S.20½°E., 86 lks. dist.,marked T 44 S R 2 W S 8 B T

A cedar, 10 ins.diam.,bears S.73½°W., 63 lks. dist.,marked T 44 S R 2 W S 7 B T

A cedar, 12 ins.diam.,bears N.65°W., 56 lks. dist.,marked T 44 S R 2 W S 6 B T

Land rough mountainous, on E. break of Buckskin mountain; general E. exposure and drainage.

Soil, rocky, limestone formation on rocky sub-soil.

Timber, cedar and pinon.

Undergrowth, sagebrush and juniper.

	East, on a random line bet. secs. 5 and 8.
40.00	Set temp. ¼ sec. cor.
79.87	Intersect N. and S. line 23 lks. S. of the cor. of secs. 4,5,8 and 9.
	Thence
	S.89°50'W., on true line bet. secs. 5 and 8.
	Gradually ascend over rolling valley sloping E., through dense sagebrush.

chains

39.93 About 75 ft. above 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

$$\frac{S5}{S8}$$
1917

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

40.00 Foot of Buckskin mountains, leave valley, enter rough mountainous land, cedar and pinon timber and juniper undergrowth, bears N. and S. Ascend abruptly general E. slope 475 ft. to

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

Land, E.46.00 chs. rolling valley, remainder of mile rough mountainous; general E. exposure and drainage.

Soil, of valley, gravelly and sandy clay loam, on hard dry, clay sub-soil. Soil of mountains, rocky of limestone formation, on rocky sub-soil.

Timber, cedar and pinon on western portion of mile.

Undergrowth, sagebrush and juniper.

West, on a random line bet. secs. 6 and 7.

40.00 Set temp. ¼ sec. cor.

77.10 Intersect W. bdy. of the tp. 14 lks. N. of the cor. of secs. 1,6,7 and 12 heretofore described.

Thence

N.89°54'E., on true line bet. secs. 6 and 7.

Over mountainous land through dense cedar and pinon timber and undergrowth of sagebrush and juniper.

Descend.

1.00 Draw, 50 ft. below sec. cor.; course NE.; ascend abruptly

2.10 Spur, 50 ft. above draw, projects N.75°E.; thence over rolling mountain top, gradually descending.

39.10 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

Subdivision of T.44 S.,R.2 W.

chains	
	$\frac{1}{4}$ $\frac{S6}{S7}$ 1917
	from which
	A cedar, 12 ins.diam.,bears N.34½°E., 69 lks. dist.,marked ¼ S 6 B T
	A cedar, 20 ins.diam.,bears S.22½°E., 130 lks. dist.,marked ¼ S 7 B T
	Begin steeper descent.
47.00	Top of limestone ledge reef, bears NE. and SW.; descend abruptly.
50.10	Draw, 150 ft. below ¼ sec. cor., course NE.; ascend.
62.50	Spur, 50 ft. above draw, projects N.65°E.; descend along top of spur 100 ft. to
77.10	The cor. of secs. 5,6,7, and 8.
	Land, rolling and broken mountain top, general E. exposure and drainage.
	Soil, rocky of limestone formation and mixed with some shallow brown loam soil; on rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush and juniper.

	S.0°03'E., on true line bet. secs. 7 and 8.
	Over rough mountainous land through cedar and pinon timber and undergrowth of sagebrush and juniper. Along broken E. slope of Buckskin mountain. Descend abruptly.
3.40	Gulch, 35 ft. below cor., course E.; ascend.
6.90	Spur, 25 ft. above gulch, projects E.; descend abruptly over ledges.
16.90	Deep gulch, 200 ft. below spur, course E.; ascend abruptly over ledges.
21.80	Spur, 150 ft. above gulch, projects E.; descend abruptly over ledges.
27.33	Gulch, 150 ft. below spur, course SE.; ascend.
28.90	Point, 30 ft. above gulch, projects E.; descend over ledges.
31.30	Gulch, 120 ft. below point, course E.; ascend.

chains

31.58 Intersect Utah- Arizona State bdy. 21.88 chs. N.89°56'E. of the 110 th. mile cor. hereinafter 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. 7 and 8, with brass cap marked

U
CC
T44S | R2W
S7 | S8
A
1917

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

Land, rough, broken mountains, general E. exposure and drainage.

Soil, rocky of limestone formation and mixed with some shallow brown loam soil ; on rocky sub-soil.

Timber, cedar and pinon.

Undergrowth, sagebrush and juniper.

Retracement of Utah-Arizona State Boundary
and
establishment of ¼ sec. cors. for T.44 S.,R.2 W.

From the 109th. mile cor. on the Utah-Arizona State bdy. described in the field notes of the survey of T.44 S., R.3 W., I run

East, retracing the 110th. mile.

80.31 Fall 14 lks. N. of the 110th. mile cor., which is a limestone, 12 x 8 x 20 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.

The bearing of this mile is therefore S.89°54'E. and the distance is 80.31 chs.

From the 110 th. mile cor., I run

East, retracing the 111 th. mile.

chains

79.71 Fall 9 lks. S. of the 111 th. mile cor. which is a basalt stone, 15 x 10 x 14 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.

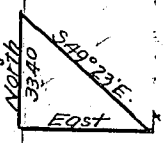
The bearing of this mile is therefore N.89° 56'E., and the distance is 79.71 chs.

From the 111 th. mile cor.,

East, retracing the 112th. mile.

25.00 Base of high ledges up which I cannot chain, I triangulate as follows:

Set a flag on line east on top of ledges and then measure a base line north, 33.40 chs. to a point where flag bears S.49°23'E. From the flag the north end of the base bears N.49°23'W., therefore tan.49°23' x base or 1.166 x 33.40 chs. gives 38.95 chs. which added to 25.00 chs. makes



63.95 To point of triangulation.

79.99 Intersect the 112 th. mile cor. which is a sandstone, firmly set in a large mound of stone, 12 x 12 x 6 ins. above the mound, properly marked and witnessed as described by the surveyor general.

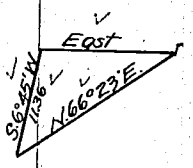
The bearing of this mile is therefore east and the distance is 79.99 chs.

From the 112 th. mile cor.,

East, retracing the 113 th. mile.

The line east crosses a deep canyon with walls of sandstone and cannot be chained, I therefore triangulate as follows:

Set a flag on line east, on top of a high ledge point, and then from the 112 th. mile cor., measure a base line, S.6° 45'W., 11.36 chs. to a point where flag bears N.66°23'E. From the flag the south end of the base bears S.66°23'W.



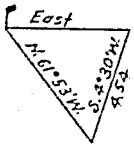
chains

Log 11.36 chs. = 1.055378
Logsin 59°38' = 9.935914
Colog sin 23°37' = 0.397272

Log. 24.47 = 1.388564

24.47 To point of triangulation.

41.58 Top of precipitous descent over solid sandstone bedrock down which I cannot chain, I triangulate as follows:



Set a flag on line east at base of descent and also erect a flag at this point, then, from east flag measure a base S. 4°30'W., 4.54 chs. to a point where west flag bears N.61°53'W. By separate measurement of each angle they are found to be respectively 85°30', 66°23' and 28°07'.

Log 4.54 = 0.6570559
Log sin 66°23' = 9.9620122
Colog sin 28°07' = 0.3267316

Log 8.83 chs. = 0.9457997

8.83 chs. added to 41.58 chs. gives

50.41 To point of triangulation.

82.08 Intersect the 113 th. mile cor. which is a red sandstone, firmly set in a mound of stone, 16 x 12 x 6 ins. above the mound, marked and witnessed as described by the surveyor general.

The bearing of this mile is therefore East and the distance is 82.08 chs.

From the 113th. mile cor.,

East, retracing the 114 th. mile.

79.68 Fall 9 lks. S. of the 114th. mile cor. 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 mile is therefore N.89°56'E., and the distance is 79.68 chs.

From the 114 th. mile cor.

East, retracing the 115 th. mile.

80.18 Fall 5 lks. S. of the 115 th. mile cor. which is a sand-

chains	
	stone, 36 x 4 x 16 ins.above ground, firmly set, and marked and witnessed as described by the surveyor general.
	The bearing of this mile is therefore N.89°58'E., and the distance is 80.18 chs.

	From the 109th. mile cor. on the Utah-Arizona bdy.,I run S.89°54'E., on true line on the 110 th. mile.
	Over mountainous land, descending E. slope of Buckskin mountain, through cedar and pinon timber and under-growth of sagebrush and juniper.
25.00	Point for closing cor. of Tp. 44 S.,Rs.2 and 3 W.
46.20	Brink of canyon, bears NE. and SW.; descend over SE. slope.
62.19	A westing of 40.00 chs. from the closing cor. of secs. 7 and 8.
	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. of sec. 7, with brass cap marked
	¼S7 / 1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
69.60	Bottom of canyon, 290 ft. below 109 th. mile cor., course NE.; ascend abruptly over broken slope 85 ft.to
80.31	The 110 th. mile cor.
	Land, mountainous, general E. exposure and drainage.
	Soil, gravelly and rocky of limestone formation with some shallow loam soil; on hard, dry clay and rocky sub-soil.
	Timber, cedar and pinon.
	Undergrowth, sagebrush and juniper.

	N.89°56'E., on true line on the 111 th. mile.

chains	
	Over rough mountainous land on east break of Buckskin mountain, through cedar and pinon timber and undergrowth of sagebrush and juniper. Ascend.
.75	Spur, projects NE.; descend abruptly over ledges.
19.70	Gulch, 400 ft. below spur, course N.80°E.; ascend NW. slope over ledges and boulders.
21.88	Point for closing cor. of secs. 7 and 8.
34.10	Spur, 90 ft. above gulch, projects NE.; descend over E. slope.
51.90	Foot of Buckskin mountains, leave timber and enter rolling valley, 230 ft. below spur, bears N. and S. Gradually descend.
61.78	Position midway bet. the closing cor. of secs. 7 and 8 and the closing cor. of secs. 8 and 9. 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. S. bdy. of sec. 8, with brass cap marked ¼S8 / 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
79.71	The 111 th. mile cor.
	Land, western portion mountainous, eastern portion rolling valley ; general E. exposure and drainage.
	Soil, mountainous land, rocky of limestone formation, on rocky sub-soil. Soil of valley, shallow brown sandy clay loam and gravelly, on hard, sand sub-soil.
	Timber, cedar and pinon on western portion of mile.
	Undergrowth, sagebrush and juniper.
	East, on true line on the 112 th. mile.
	Gradually descend over rolling valley through dense sagebrush undergrowth and very scattering cedar and pinon timber.
15.30	Base of valley and Coyoto wash, 1 ch. wide, 8 ft. deep,

chains	
	course NE., 50 ft. below 111 th. mile cor. Old road, Pahreah to Lee's Ferry, in wash, bears NE. and SW. Grddually ascend.
21.97	Point for closing cor. of secs. 8 and 9.
25.00	Leave valley; base of red and white sandstone reef and precipitous ascent over high ledges on west break of mountain, bears N. and S. Thence by triangulation to
63.95	Point of triangulation. I now measure west, 2.06 chs. to
61.89	Position midway bet. the closing cor. of secs. 8 and 9 and the true point for closing cor. of secs. 9 and 10. 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. S. bdy. of sec. 9, with brass cap marked
	¼S9 / 1917
	from which
	A cedar limb, 10 ins.diam.,bears N.46½°W., 60 lks. dist.,marked ¼ S 9 B T
	A cedar, 15 ins.diam.,bears N.13°E., 49 lks. dist.,marked ¼ S 9 B T
63.95	Point of triangulation. Continue abrupt ascent over sandstone ledges and boulders.
79.99	The 112 th. mile cor. on top of sharp, rocky red sandstone ridge, 1100 ft. above Coyoto wash, bears N. and S.
	Land, west 25.00 chs. rolling valley, remainder of mile rough mountainous. General E. and W. slopes to Coyoto wash which drains N..
	Soil, generally rocky of sandstone formation with a considerable amount of red and blue sandy clay soil.
	Timber, scattering cedar and pinon.
	Undergrowth, sagebrush.

	East, on true line on the 113 th. mile.
	Over rough mountainous land through scattering cedar and pinon timber. East about 15.00 chs. distant is the

chains	
	bottom of a deep canyon with walls of solid sandstone. Thence by triangulation to
24.47	To point of sharp sandstone spur, projects NE. The true point for closing cor. of secs. 9 and 10 bears west 2.65 chs.
	Descend precipitous E. slope over sandstone ledges and bedrock.
24.53	The point for witness cor. to the closing cor. of secs. 9 and 10.
41.58	Point of triangulation over precipitous solid sandstone break.
50.41	East point of triangulation at base of break. Leave bedrock and sandstone benches, bears N. and S.; descend through deep sand.
61.98	Position midway bet. the point for closing cor. of secs. 9 and 10 and the closing cor. of secs. 10 and 11. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ½ sec. cor. S. bdy. of sec. 10, with brass cap marked ¼S10 1917
	No trees suitable for bearing trees or rock available, and as cor. stands in deep sand I do not build any accessories.
64.00	Sand Wash, in gulch, 1000 ft. below 112 th. mile cor., course N. A large water pocket in gulch, bears southerly about 10 chs. Ascend over sandstone outcroppings.
67.00	Top of sandstone pinnacle. Thence over broken bench to
82.08	The 113 th. mile cor., 100 ft. above wash.
	Land, rough mountainous, general N. exposure and drainage.
	Soil, scattering patches of loose, red sand. Land chiefly solid sandstone.
	Timber, few scattering cedar.
	Undergrowth, sagebrush.

chains	
	N.89°56'E., on true line on the 114 th. mile.
	Over broken sandstone benches and rolling sandhills, through scattering cedar timber and sagebrush.
	Numerous bell shaped red sandstone buttes on both sides of line.
20.06	Point for closing cor. of secs. 10 and 11.
20.30	Low sandstone reef, bears N. and S.
60.01½	Position midway bet. the closing cor. of secs. 10 and 11 the closing cor. of secs. 11 and 12.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. S. bdy. of sec. 11, with brass cap marked
	¼S11 / 1917
	from which
	A cedar, 8 ins.diam.,bears North, 51 lks. dist.,marked ¼ S 11 B T
	No other tree available.
	Stone for mound not available and as cor. stands in deep, loose sand, I do not dig pits.
79.68	The 114 th. mile cor.
	Land, rolling sandstone benches and sandhills.
	Soil, deep, loose, red sand and sandstone rock.
	Timber, scattering scrub cedar and pinon.
	Undergrowth, sagebrush.
	N.89°58'E., on true line on the 115 th. mile.
	Over rolling sandhills. Numerous sandstone outcroppings and bell shaped buttes on both sides of line.
20.29	Point for closing cor. of secs. 11 and 12.
22.53	Top of south one of twin sandstone buttes about 30 ft. high.
60.27	Position midway bet. the closing cor. of secs. 11 and 12 and the closing cor. of Tp. 44 S.,Rs. 1 and 2 W.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground on solid rock and 6 ins. in a mound of

chains

stone for ½ sec. cor. S. bdy. of sec. 12, with brass cap marked

½S12

1917

from which

A cedar, 6 ins.diam.,bears N.27½°E., 75½ lks. dist.,marked ½ S 12 B T

A cedar, 16 ins.diam.,bears N.28½°W., 57 lks. dist.,marked ½ S 12 B T

80.18 The 115 th. mile cor.

Land, rolling sandhills.

Soil, deep, loose, red sand and sandstone rock.

Timber, scattering scrub cedar and pinon.

Undergrowth, sagebrush and sandgrass.

Boundaries of T. 44 S., R. 2 W.

Latitudes, departures and closing errors.

Lines designated	True bearings	Distances.	Latitudes N.	Latitudes S.	Departures E.	Departures W.
		chs.	chs.	chs.	chs.	chs.
E.bdy.T44SR2W	North	111.03	111.03	.....	.....	.....
N.bdy.T44SR2W	West	476.93	.....	.....	.....	476.93
W.bdy.T44SR2W	South	111.32	.....	111.32	.....	.....
Ut.-Ar.Bdy.						
110 th. mile	S.89°54'E.	55.31	.....	.10	55.31	.....
111 th. mile	N.89°56'E.	79.71	.09	.....	79.71	.....
112 th. mile	East	79.99	.....	.....	79.99	.....
113 th. mile	East	82.08	.....	.....	82.08	.....
114 th. mile	N.89°56'E.	79.68	.09	.....	79.68	.....
115 th. mile	N.89°58'E.	80.18	.05	.....	80.18	.....
116 th. mile	East	20.07	.....	.....	20.07	.....
Convergency			.....	.....	.....	.14
			111.26	111.42	477.02	477.07

Error in lat. = 111.42 − 111.26 = .16

Error in departure 477.02 − 477.07 = .05

General description.

This township consists of rough mountainous and broken bench lands. The western portion of the township lies on the east break of the Buckskin mountains, the remaining part on the N. and S. sides of the Buckskin gulch which is a narrow gorge, cut in solid sandstone and ranging from 400 to 600 ft. in depth traversing the township in an easterly direction through secs. 1, 2 and 3. All of the land in this township drains to Buckskin gulch.

The soil of the western part of the township in secs. 5,6,7 and 8 is a sandy blue and brown clay loam and rocky of limestone formation, while on the benches it is a light, fine, deep, loose red sand. Sandstone outcroppings and solid surface rock covering large areas are found in the central part of the township.

There is no water in this township.

A scattering growth of cedar and pinon timber and sagebrush undergrowth is found on the entire township. Juniper undergrowth grows abundantly on the Buckskin mountains. The land in this township is suitable for grazing purposes, the stock securing water from pockets in the rocks.

I find no indications of mineral in the township although in secs. 3,4,9 and 10 there are iron stains.

There are no settlers living in the township.

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Page

BOOK A-437

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.	
Frank Romney	July 6,1917	August 2,1917	chainman
James Hill	"	"	chainman
Harold Evans	"	"	flagman
James Staunt	"	"	axman
The above assistants were employed by me in the survey of T.44 S., R.2 W.			

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

Howard W. Meeker

U. S. Surveyor.

6—2761

FINAL OATH OF UNITED STATES SURVEYOR.

I, Howard W. Miller, U. S. Surveyor, do ~~solemnly swear~~ certify on honor that, in pursuan of special instructions received from the U. S. Surveyor General for Utah bearing date of the 1st. day of February, 1916, I have well, faithfully, and trul in my own proper person, and in strict conformity with said instructions, the Manual of Surveyi Instructions, and the laws of the United States, surveyed all those parts or portions of east boundary and subdivision of T.44 S., R.2 W. and the retracement of the Utah-Arizona State Boundary and establishmen of ¼ sec. cors. for T.44 S.,R.2 W.

of the Salt Lake Base and Meridian, in the State of Utah, which are represented i and date diagram on page 1 and on dates as shown on diag the foregoing field notes as having been executed by me, and under my direction; and I do furthe ~~solemnly swear~~ certify on honor that all the corners of said survey have been established and perpetuated in strict accord ance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyo General for Utah and in the specific manner described in the field notes, and tha the foregoing are the original field notes of such survey.

Howard W. Miller
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, Oct. 30, 1918.

The foregoing field notes of the survey of the east boundary and subdivision of Township No. 44 South, Range No. 2 West; and retracement of the Utah-Arizona State Boundary and establishment of ¼ section corners for Town ship No. 44 South, Range No. 2 West of the Salt Lake Base and Meridian Utah,

executed by Howard W. Miller
under ~~his~~ special instructions dated February 1, 1916, having been 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.

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Page

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Page

4—679

BOOK A-487

F.

FIELD NOTES

OF THE ~~SURVEY OF THE~~

Retracement of the Utah - Arizona State Boundary

along South boundary of T. 44 S., R. 1 W.

Survey of East Boundary

and

Subdivision of

T. 44 S., R. 1 W.

Of the Salt Lake Base and *Meridian,*

In the State of Utah

EXECUTED BY

Andrew Nelson, U.S. Transitman

Elliot Bird, U.S. Transitman

~~*In the capacity of U. S. Surveyor*~~, *under instructions dated* February 1, *1916*, *issued by the United States Surveyor General to govern surveys included in Group No.* 50, *which were approved by the Commissioner of the General Land Office,* March 25, *1916*, *pursuant to authority contained in the Act of Congress dated* ....., *191*....

Supplemental Assignment instructions dated July 25, 1917 & Sept. 5, 1917.

Survey commenced August 20, *1917*

Survey completed October 10, *1917*

6—151

Examinations Classified

A Plat E.B.B. Notes E.B.B.

B Computations E.B.B.

C Comparing Plat V.J.F. Notes E.B.B.

BOOK A-437

INDEX DIAGRAM.

Township 44 South, *Range* 1 West

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7 21 23	8 17 24	9 14 24	10 11 25	11 7 25	12 3
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Utah-Ariz. Bdy.

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BOOK A-437

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INDEX DIAGRAM.

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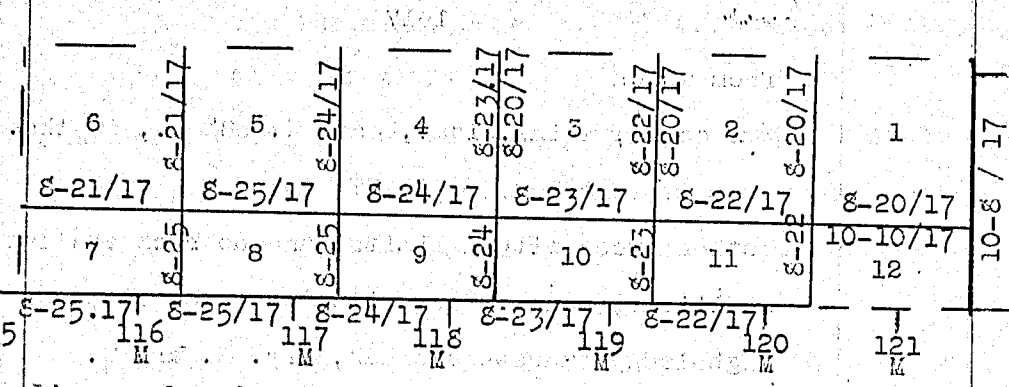
Utah-Ariz Bdy

6—4817

East Boundary of T.44 S., R. 1 W.

Chains

Date Diagram of T.44 S.,R.1 W



Lines colored and dated in black ink, were surveyed by Andrew Nelson, U.S. Transitman.

Lines colored and dated in red ink, were surveyed by Elliot Bird, U.S. Transitman

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Survey commenced August 20,1917 and executed with Young & Sons light mountain transits, Nos. 8589 (used by Nelson) and 8487 (used by Bird) equipped with Smiths solor attachment. For full description, approval and test of instruments, see survey of T.43 S., Rs.1 & 2 W.

From the true point cor. of Ts. 43 & 44 S., R.1 W., which is 50 lks. N. of the W.C.; described in survey of T.43S., R.1 W.; latitude 37°01½' N.; longitude 111°54' W.

South, on the Salt Lake Meridian, along E. bdy. of T.44S., R. 1 W., and on E. bdy. of sec. 1.

Over rocky, broken land, facing W. and lying under high sandstone break about 10 chs. E. of cor., through scattering cedar and pinon timber.

8.06 The closing cor. of Ts. 43 & 44 S., R. 1 E.

11.00 Begin gradual descent across wide hollow, brs NW and SE.

28.00 Main wash, 20 lks. wide, 5 ft. deep, in hollow, course W. Gradually asc. N. slope.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, 5 ft. base, on bedrock for ¼ cor. of sec. 1 only, T.44S.,R.1W, with brass cap marked

East Boundary of T.44 S., R.1 W

Chains	
	$\frac{1}{4}$ S1 | 1917
	from which
	A cedar, 4 ins.diam.,bears N. 58° W., 50 lks.dist., marked $\frac{1}{4}$ S1 BT
	No other trees within limits, and no rock available for additional mound; Cor. situated on N. slope at foot of high ledgy sandstone break, brs. E. and W.
	Abrupt ascent N. slope, over broken ledges.
48.06	Position for $\frac{1}{4}$ cor. of sec. 6, T.44S.,R.1E.,40.00chs. S. of cor. Ts.43 & 44 S.,R.1 E.
	Set an iron post, 3 ft.long, 1 in. dia., 26 ins. in mound of stone, 6 ft. base, on bedrock, for $\frac{1}{2}$ cor. of sec. 6 only, with brass cap marked
	$\frac{1}{2}$ S6 | 1917 from which
	A cedar, 6 ins.diam.,bears N.70°E.,70 lks. dist., marked $\frac{1}{2}$ S6 BT
	No other trees within limits and no other accessories built.
50.00	Top of break and ledges, 450 ft. above tp. cor., brs. E. and W.,thence gently asc. over high bench land, through medium dense timber; sandy soil.
80.00	On a gentle NW. slope, 75 ft. above rim of bench.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 1 and 12, T.44 S.,R.1 W., with brass cap marked
	T44S S1 / S12 R1W | 1917
	from which

Chains	
	Cedar, 12 ins.diam.,bears S.58¾°W., 135 lks. dist., mkd. T44S R1W S12 BT
	Cedar, 8 ins.diam.,bears N.22½° W., 62 lks. dist., mkd. T44S R1W S1 BT
	S. 30chs. top of high bench land, having a gentle N & NW slope; soil; deep, loose sandy, covered with undergrowth of sage and grass, and medium dense scrub cedar and pinon timber: remainder of mile rough and broken, draining N & S into a hollow which drains W. into Paria river; soil, rocky with some loose sand; red sandstone formation; some scattered cedar & pinon timber.
	South on E. bdy. of sec. 12.
	Gently asc. over bench land, through dense cedar and pinon timber.
5.00	Top of ascent, brs. NE. and SW.; desc. S. slope, 20 ft. to
8.06	A southing of 80.00chs. from the closing cor. of Ts.43 and 44 S.,R. 1 E.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for the cor. secs. 6 and 7, T.44 S.,R.1 E.,with brass cap marked
	T44S R1E S6 S7 1917 from which
	Cedar, 10ins.diam.,bears N.38½°E., 185 lks. dist., mkd. T44S R1E S6 BT
	Cedar, 8 ins.diam.,bears S.46½°E., 110 lks.dist., mkd. T44S R1E S7 BT
9.18	Intersect the Utah - Arizona bdy. on offset line, at a point 20.21 chs. east of the W.C. 121st mile cor., which is a sandstone 36x15x12 ins. firmly set in large mound of stone, mkd. and witnessed as described by the surveyor general.
	At point of intersection

Chains	
	Set a brown sandstone, 28x11x5 ins. 20 ins. in ground, for the witness closing cor., of T.44 S.,Rs. 1 E & 1 W., markedrWCsCCaT44S U on N face, R1W and 6 notches on W., R1E and 6 notches on E., and A on S. face.
	from which
	A cedar limb, 6 ins.diam.,bears N.11½°W.,155 lks. dist., mkd. WC CC T44S R1W S12 BT U
	A cedar, 7 ins.diam.,bears N.67°E., 84 lks.dist., mkd. WC CC T44S R1E S7 BTU
	No iron post was available.
	Cor. situated on gentle S. slope, about 2 chs. N. of an impassable sandstone wall, which bears E and W.
	Land, rolling top of top of mesa.
	Soil, loose sandy and rocky of sandstone formation.
	Timber, cedar and pinon; undergrowth, sage and grass.

	Subdivision of T. 44 S., R. 1 W.
	From true point for cor. secs. 1,2,35 and 36, on N. bdy. which is 4,53 chs. E. of the witness cor., described in survey of T.43 S.,R.1 W.
	Thence,
	S. 0°01' E., bet, secs. 1 and 2.
	Over mountainous land; descend abruptly S. barren sandstone, which forms S. break of Clarks bench.
11.50	Base of sandstone break and ledge, brs N.70°E. & W., thence gradually desc. over rolling, sandy bench land, sloping S. & SW., through scattering cedars and undergrowth greasewood, sage oose and grass.
20.00	Sandy ravine, 10 ft. deep, course SW.
37.00	Enter low red sandstone breaks, near E. rim of Buckskin gulch, brs N.70°W and SE.; desc. broken SW. slope.
40.00	On steep rocky SW. slope, 175 ft. below base of the high break at 11.50chs.

Chains	
	Set an iron post, 3 ft. long, 1in. dia., 26 ins. in mound of stone, on bedrock, for ¼ sec. cor., with brass cap mkd.
	¼ S2 | S1 1917
	from which
	A cedar, 10 ins.diam.,bears S.60°E., 102 lks. dist., mkd. ¼ S1 BT
	No other suitable trees within limits in sec. 2.
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Continue descent, 20 ft. to
41.35	Rocky gulch, near head, course W. 2chs. dist. to Buckskin gulch, at bend from N.80°W to SW.; asc. 50 ft. to
55.75	Leave low breaks, brs NE and SW.; thence over rolling land, slight slopeto N.
71.50	Begin gradual descent on S. slope towards Buckskin gulch, brs NW. and SE.
80.00	Set an iron post, 3 ft. long, 2 ins. dia.,24 ins. in mound of stone, 5 ft. base, on bedrock, for cor. secs. 1,2,11 and 12, with brass cap marked
	T44S | R1W S2 | S1 S11 | S12 1917
	No suitable bearing trees within limits, and no rock available for accessory mound of stone.
	Cor. situated on gentle S. slope, about 4 chs. N. and 2½ chs. E. of Buckskin gulch.
	Land, N. 11½chs. steep rocky S. face of break; remainder rolling and low broken, sandy bench; drainage on mile SW and S into the Buckskin gulch; soil, loose, sand and sandstone bedrock.
	Timber, scattering cedars on S.68½ chs.
	Undergrowth, greasewood, sage, oose, match-brush & grass. Good grazing on bench.

Chains	
	East, on random line, bet. secs. 1 and 12.
14.62	Edge of impassable Paria canyon; I triangulate as follows:
	Erect flag at this point; proceed to a point on line on top of high mesa, east, then with telescope directed at flag on W. edge of canyon, turn an angle of 90° to the N. and maasure a base line, North, 14.70chs. dist., to point whence flag brs S.69°44' W., therefore dist. is tan. 69°44' x base or 2.70819 x 14.70 chs. = 39.81 chs., which added to 14.62 chs. makes
54.43	To triangulation point; no longer base line was obtainable.
80.14	Intersect E. bdy. of tp., 9 lks. N. of cor. secs. 1 and 12, heretofore described
	Thence,
	N. 89°56' W., on true line, bet. secs. 1 and 12,
	Over gently rolling top of high mesa, slight slope to NW., through dense cedar timber, and scattering undergrowth.
17.00	Begin gradual desc., and enterrocky land, brs. N. and S.
25.71	Point of triangulation on top of impassable sandstone wall or break about 500 ft. high, 75 ft. below sec. cor., brs. nearly N. and S.; the true point for ¼ sec. cor., N.89°56'W., 14.36 chs. comes on W. face of break near base, impracticable tosset; therefore at this point:
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, 6 ft. base, on bedrock, for witness ¼ sec. cor., with brass cap marked
	S1 / ¼WW / S12 / 1917
	No suitable trees within limits for bearing trees, and no rock available for accessory mound.
	Thence by triangulation, approximate topography as follows:
	Desc. abruptly over W. face of sandstone break.
40.07	Point for ¼ sec. cor.; cor. not set.
45.00	Base of break, brs N. and S.; thence more gradual descent over broken land; through scattering timber,

Chains	
61.50	Left wall of Paria river canyon, nearly perpendicular, 800 ft. high, and 660 ft. below top of break at 25chs. Stream in bottom, about 25 lks. wide, 1 ft. deep, course S.; thisstream flows through a narrow chasm from 2 to 5 chs. wide, and 400 to 800 ft. deep, the nearest crossing is about 6 miles up stream; the Buckskin gulch joins this canyon apporximately 30 chs. S.
65.52	Right wall of canyon and triangulation point.
	Thence over rolling bench, forming a peninsula bet. the Paria and Buckskin gulches.
80.14	The cor. of secs. 1,2,11 and 12.
	E. 25.71 chs. top of high mesa; W. 35 chs. rolling and broken bench land; remainder sandstone break.
	Soil, loose sandy and rocky, sandstone bedrock.
	Timber, cedars, dense on E. 17 chs. and scattering on remainder of mile.
	Undergrowth, scattering, short shadscale, sage, greasewood and grass. Good grazing on the bench and mesa land.
	On account of the impassable Buckskin gulch, a chasm approximately 800 ft. deep, with perpendicular sandstone walls, the left edge of which is S. of the cor. of secs. 1,2,11 and 12, 4 chs. dist., and brs. nearly S. along the sec. line, I offset by triangulation as follows:
	Erect flag at cor. secs. 1,2,11 and 12; proceed to a point on right edge of gulch, west of sec. cor., now with telescope directed at sec. cor., turn an angle of 90° towards the S. and measure a base line 7.12 chs. to point whence flag on sec cor. subtends an angle of 42° 44' therefore dist. is tan. 42°44' x base or .92385 x 7.12 chs. = 6.58 chs. or offset dist. W. of true line.
	Thence, S.0°01'E., on offset line.
	Over rocky land, sloping E. on W. side of the gulch.

Chains

through few scattered cedars.

17.80 A point from which the witness 120th mile cor. of Utah-Arizona bdy., bears West, 13.77 chs. dist.; being impracticable to continue S. on account of high mountains I offset East, 4.88 chs. dist., where I set

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in mound of stone, 5 ft. base, on bedrock, for witness closing cor. of secs. 11 and 12, with brass cap

U
C | C
T44S | R1W
S11 | S12
A
WC
1917

from which

A cedar, 7 ins. diam., bears N.5°E., 18 lks. dist., mkd. WC CC T44S R1W S12 BT U

No other trees within limits, and no rock available for accessory mound.

This cor. stands 1.70chs. W. of true line, which point falls on extreme edge of Buckskin gulch, steep barren rock slope and could not be set. The gulch turns to SE. and joins the Paria about 10 chs. dist.

Note: The Buckskin gulch cannot be crossed for approximately 10 miles above this point.

Land, rocky bench along the gulch.

Timber, few cedars; scattered undergrowth.

S. 0° 01' E., bet. secs. 2 and 3, from cor. secs. 2,3,34 and 35 on N. bdy. of tp., heretofore described.

Gradually desc. rolling sandy bench land, facing S., through scattering cedars and pinon, and scattering undergrowth.

24.63 N. rim of Buckskin gulch, 125 ft. below sec. cor., brs E. and W.; The gulch proper is 3 chs. wide, 800 ft. deep, perpendicular sandstone walls, dry, course E. I triangulate as follows:

Subdivision of T. 44 S., R. 1 W.

Chains	
	Erect flag at this point; then proceed to S. side of gulch where I place my instrument on line, now with telescope directed at flag on N. side, turn an angle of 90° towards the E., measureing a base line, 800 chs. to point whence the flag on N. rim, subtends an angle of 39° 20'; therefor tan. 39°20' x base or .81946 x 8 = 6.55 chs., which added to 24.63 makes
31.18	To triangulation point, and S. rim of gulch, brs E & W.
	Asc. N. slope.
33.70	Sandstone rim ledge, 40ft. high, brs E. and W.
40.00	On a gentle W slope, 130 ft. above rim of gulch.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, 5 ft. base, on bedrock, for ¼ sec. cor., with brass cap mkd.
	¼ S3 | S2 1917 from which
	A cedar, 6 ins.diam., bears N.66°E., 55 lks. dist., mkd. ¼ S2 BT
	A cedar, 7 ins.diam., bears S.56½°W., 63 lks. dist., mkd. ¼ S3 BT
	Continue gradual ascent over bench.
65.25	Leave bench and base of mass of barren sandstone outcrop, brs. NE. and SW.; asc. abruptly over rugged N. face.
75.70	Top of same, 290 ft. above ¼ cor., brs N.30°E & S.10°W.
	Gradually desc. along rough broken top.
80.00	In depression on barren sandstone, cut a cross at exact point, over which
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in mound of stone, for cor. of secs. 2,3,10 and 11, with brass cap marked
	T44S | R1W S3 | S2 S10 | S11 1917 from which

Subdivision of T. 44 S., R. 1 W.

Chains	
	Cross (X) B.O. cut in W. face of rock, bears N.83° E., 70 lks. dist.
	Cross (X) B.O. cut in E. face of ledge, bears N.70½° W., 76 lks. dist.
	No rock available for accessory mound.
	N. 65.25 chs. bench land, rolling and broken, slopes N. and S. into Buckskin gulch, which drains E.; remainder is mass of sandrock outcrop, rising about 200 ft. above surrounding bench, having a NE and SW trend.
	Soil, loose, dry sand and sandstone bedrock.
	Timber, scattering scrub cedar and pinon on N. 65 chs.
	Undergrowth, greasewood, oose and match-brush.

	East, on random line, bet. secs. 2 and 11.
40.00	Set temp. ¼ sec. cor.
73.50	Fall 2 lks. N. of flag set 6.58 chs. west of the cor. secs. 1,2,11 and 12. For triangulation see line bet. secs. 11 and 12.; therefore length of mile is 80.08 chs.
80.08	Intersect N. and S. line, 2 lks. N. of the cor. secs. 1,2,11 and 12; thence
	N.89°59' W., on true line, bet. secs. 2 and 11., by triangulation; approximate topography from cor. as follows
	Along a gentle S. slope, rocky.
2.50	E. rim of Buckskin gulch, 800 ft. deep, course SE.
4.00	W. rim of gulch, brs NW and SE.; asc. abruptly.
6.58	To triangulation point.; con tinue abruptly to ascend.
15.60	Top of ascent on gravelly knoll, 240 ft. above edge of gulch, brs S. 1 ch. to top of knoll, and N.
	Thence over rolling bench land, through few scattered cedars and scattering undergrowth; along general N. slope.
28.40	Ravine, 15 ft. deep, course N.
40.04	On an E. slope in sandy ground.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked

Chains	
	S2 ¼ S11 1917 from which
	A cedar, 7 ins.diam.,bears N.89°E., 160 lks.dist., mkd. ¼ S2 BT
	No other trees within limits, and too sandy for pits.
41.50	Sand wash, 20 lks. wide, 10 ft. deep, course NE.; begin gradual ascent on E. slope; deep, loose sand.
65.80	Base of barren sandstone outcrop, brs NE. and SW.;asc. more rapid.
75.70	Top of ascent, 235 ft. above ¼ cor., brs N. and S. Desc. 15 ft. to
80.08	The cor. of secs. 2,3,10 and 11.
	Land, rolling and broken bench; general exposure and drainage to NE into Buckskin gulch.
	Soil, loose, redish sand and sandstone bedrock and outcrops.
	Timber, few scattered cedars.
	Undergrowth, sage, rabbit-brush, oose, cactus and bunch grass. Good grazing on portion of mile.
	S. 0° 01' E., on true line, bet. secs.10 and 11
	Over broken, rough sandrock.
6.00	Gradually asc.
12.00	Top of sandrock, 55ft. above cor., brs E. and W.; desc. S. face, 35 ft. to
16.30	Base of sandrock, brs. NE. and SW.; thence over rolling sandy bench land, slope to E.
30.87	Intersect the Utah-Arizona bdy., N.89°49'E., 20.27 chs. dist. of the 119th mile cor., hereinafter described.
	At point of intersection
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in ground, for closing cor. of secs. 10 and 11, with brass cap mkd.
	U

Subdivision of T. 44 S., R. 1 W.

Chains	
	U C | C T44S | R1W S10 | S11 A 1917 from which
	A cedar, 6 ins. diam., bears N.73½°W., 333 lks. dist., mkd. U CC T44S R1W S10 BT
	No other trees within limits, and too sandy for pits.
	Land, rough sandrock outcrops and rolling bench; drainage to NE.
	Soil, barren sandstone, and loose sand.
	Timber, only a few scattered cedars.
	Undergrowth, sage, greasewood, oose and grass.

	From the cor. of secs. 3,4,33 and 34 on N. bdy. of tp., described in survey of T.43 S., R.1 W.
	S. 0° 02' E., bet. secs. 3 and 4.
	Gradually desc. rolling and slightly broken bench land, facing S., through scattering cedars and undergrowth.
31.75	N. rim of Buckskin gulch, 110 ft. below cor., 600 ft. deep, course E., from the NW.; impossible to cross.
	---
	triangulate as follows:
	Erect flag at this point; proceed to S. side, where I place instrument on line, then with telescope directed at flag on N. side, turn an angle of 90° towards E. and measure a base line, 8.00 chs. dist. to point whence flag on N. side, subtends an angle of 38°27'; therefore dist. is tan. 38°27' x base or .79401 x 8.00 chs. = 6.35 chs., which added to 31.75 makes
38.10	Triangulation point, and S. rim of gulch, brs. S.70°E. and N.70°W; the gulch proper is only 2 chs. wide.
	Asc. steep N. slope, 35 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap mkd.
	¼ S4 | S3 1917 from which

Chains	
	A cedar, 18 ins. diam., bears N.89°E., 479 chs. dist., mkd. ¼ S3 BT
	A cedar, 6 ins. diam., bears N.7° W., 233 lks. dist., mkd. ¼ S4 BT
45.00	Thence gradually asc. rolling bench, slight slope to N and NE.
80.00	On gentle NE. slope, 125 ft. above ¼ cor.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. secs. 3,4,9 and 10, with brass cap marked

T44S	R1W
S4	S3
S9	S10

1917 from which

A cedar, 18ins. diam., bears N.79°E., 173 lks. dist., mkd. T44S R1W S3 BT

A cedar, 18ins. diam., bears S.28°W., 115 lks. dist., mkd. T44S R1W S9 BT

A cedar, 16 ins. diam., bears N.73°W., 480 lks. dist., mkd. T44S R1W S4 BT

No tree available in sec. 10, and no rock for accessory mound.

Land, rolling bench, sloping and draining into Buckskin gulch, which drains E.

Soil, deep, loose, red sand, with sandstone bedrock and outcrops.

Timber, scattering cedars on mile.

Undergrowth, sage, rabbit-brush, oose, cactus and grass.

Good grazing.

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

40.00 Set temp. ¼ sec. cor.

79.99 Intersect N and S line, 5 lks. N. of cor. secs. 2,3,10 and 11.

Thence,

N. 89° 58' W., on true line, bet. secs. 3 and 10.

Subdivision of T. 44 S., R. 1 W.

Chains	
	Over rough barren sandrock outcrop; asc. 35 ft. to
1.10	Crest or top of same, general bearing of top N. and S.20°W.; thence over rough, broken slope to N.
3.50	Hollow in sandrocks, 45 ft. deep, course N.
27.40	Base and leave barren sandstone outcrop, 150 ft. below top, brs NE. and SW.; thence over rolling bench land, facing to N., through scattering cedars and undergrowth.
34.00	Swale, drains N.; asc. 30 ft. to
39.99½	On E. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap mkd.
	¼ S3 / S10 1917. from which
	A cedar, 7 ins. diam., bears N.55½°E., 168 lks. dist., mkd. ¼ S3 BT
	A cedar, 7 ins. diam., bears S.64°E., 251 lks. dist., mkd. ¼ S10 BT
61.00	E base of sandstone outcrop, 20 ft. high, extends N 2chs., and S. 1½ chs. to endd
62.00	W. base of same.
72.00	Base of wide swale, drains N.; asc. 25 ft. to
79.99	The cor. of secs. 3,4,9 and 10.
	Land, rolling bench and rough sandstone outcrops; exposure and drainage to N.
	Soil, loose, dry, fine sand and sandstone bedrock and outcrops.
	Undergrowth, considerable sage, rabbit-brush, oose, cactus and grass, 2 to 3 ft. high.
	Timber, scattering cedars on W. 52.60 chs.
	Fair grazing land, on greater portion of mile.
	S. 0° 02' E., on true line, bet. secs. 9 and 10.
	Over rolling bench land, facing to NE., through considerable cedar timber.

Subdivision of T. 44 S., R. 1 W.

Chains	
5.00	Swale, drains NE.
30.81	On gentle N. slope, 70 ft. above sec. cor.
	Intersect Utah- Arizona bdy., S.89°58'E., 20.46 chs. dist., of the 118th mile cor., hereinafter described
	At point of intersection
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for closing cor. of secs. 9 and 10, with brass cap marked
	U C T44S S9 | C R1W S10 A 1917 from which
	A cedar, 8 ins.diam., bears N.53°E., 278 lks.dist., mkd. U CC T44S R1W S10 BT
	A cedar, 8 ins.diam., bears N.79°W., 117 lks.dist., mkd. U CC T44S R1W S9 BT
	Land, rolling, sloping to NE.
	Soil, deep, loose sandy and gravelly.
	Timber, medium dense cedar.
	Undergrowth, scattering sage, oose and grass.

	From the cor. of secs. 4,5,32 and 33, on N. bdy. of tp., described in the survey of T.43 S.,R. 1 W.
	S. 0° 03' E., bet. secs. 4 and 5.
	Over rolling, open, sandy bench land, slight exposure to N. through dense undergrowth.
20.00	Enter few scattered cedars, brs E. and W.
30.20	Wide sandy ravine, 5 ft. deep, course E.
36.25	Top of sand ridge, 25 ft. high, brs. E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S5 | S4 1917 from which

Chains	
	A cedar, 16 ins.diam.,bears S.52½°W., 248 lks.dist., mkd. ¼ S5 BT
	A cedar, 7 ins. diam.,bears N.56¾°E., 289 lks.dist., mkd. ¼ S4 BT
80.00	On a gentle S. slope, 90 ft. above ¼ sec. cor. Set an iron post, 3ft. long, 2 ins. dia., 24 ins. in mound of stone, 5 ft. base, on bedrock, for cor. secs. 4,5,8 and 9, with brass cap marked

T44S	R1W
S5	S4
S8	S9

1917 from which

	A cedar, 8 ins.diam.,bears N.59½°E., 465 lks.dist., mkd. T44S R1W S4 BT
	A cedar, 8 ins.diam.,bears S.1°E., 321 lks.dist., mkd. T44S R1W S9 BT
	A cedar, 10 ins.diam.,bears S.77½°W., 413 lks.dist., mkd. T44S R1W S8 BT
	A cedar, 10 ins.diam.,bears N.54¾°W., 103 lks. dist., mkd. T44S R1W S5 BT
	Land, rolling, with slight exposure to N. and NE.
	Soil, deep, loose red sand and a few scattered outcrops of sandstone bedrock.
	Undergrowth, sage, rabbit-brush, oose, cactus, greasewood and grass.
	Timber, very scattered cedars on S. 60 chs.
	Fair grazing.

	East, on random line, bet. secs. 4 and 9.
40.00	Set temp. ¼ sec. cor.
80.10	Intersect the cor. of secs. 3,4,9 and 10.
	Thence,
	West, on true line, bet. secs. 4 and 9.
	Gradually ascending NE. slope over bench land, through scattering cedar timber, and undergrowth.

Subdivision of T. 44 S., R. 1 W.

Chains	
40.05	On NE. slope, 50 ft. above sec. cor.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	S4 ¼ —— S9 1917 from which
	A cedar, 7 ins.diam.,bears N.80°W., 159 lks. dist., mkd. ¼ S4 BT
	A cedar, 10 ins.diam.,bears S.44½° W.,51 lks.dist., mkd. ¼ S9 BT
	Cor. situated at top of ascent.
	Thence along top of high bench, about 5 chs. from S. edge.
5.00 55.00	Begin descent over W. slope, rocky land, brs NE. & S.
64.00	Base of rim rock and descent, 80 ft. below top, brs N. and S.; thence over lower bench, slope to N.
80.10	The cor. of secs. 4,5,8 and 9.
	Land, rolling and broken bench, general slope and drainage to N.; soil, loose sandy, gravelly and sandstone outcrops.
	Undergrowth, sage, oose, rabbit-brush and grass.
	Timber, scattering eedars on mile.

	S. 0° 03' E., on true line, bet. secs. 8 and 9.
	Gradually ascending over rolling land, through scattering cedars.
30.85	On N. slope, 85 ft. above sec. cor.
	Intersect Utah - Arizona bdy., N.89°59'E., 20.16 chs. dist. of the 117th mile cor., hereinafter described.
	At point of intersection.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for closing cor. of secs. 8 and 9, with brass cap marked
	U C C T44S R1W S8 S9 A 1917 From which

Subdivision of T. 44 S., R. 1 W.

Chains

A cedar, 18 ins.diam.,bears N.74°E.,398 lks.dist., mkd. U CC T44S R1W S9 BT

A cedar, 10 ins.diam.,bears N.62½°W., 205 lks.dist., mkd. U CC T44S R1W S8 BT

Land, rolling, exposure and drainage to N.

Soil, sandy, gravelly and some sandstone outcrops.

Timber, scattering cedars.

Undergrowth, sage, oose and grass.

From the cor. of secs. 5,6,31 and 32 on N. bdy. of tp., described in the survey of T.43 S.,R.1 W.
S.0°03'E., on true line bet.secs.5 and 6,
Over rolling land, through scattering cedars; gently desc. slight W. slope, 35 ft. to

7.00 Low saddle bet. hill to N. and sandstone mountain to S., brs N. and S.; drainage to NW and E. from here.

Gradually asc. NW. slope towards foot of mountain.

10.00 Base of lone barren sandstone mountain, brs. E. for 5chs. thence S., and S.70°W.; asc. more abruptly.

22.60 Top of ascent, 205 ft. above saddle, on E. slope or small flat along E. side of mountain, rises rapidly to SW.

27.50 Desc. from flat. brs NE and SW, 65 ft. to

29.75 Base of sandstone mountain, brs NE and SW.; thence along foot, over sandy land, sloping E.

39.50 Shallow sand wash, drains N.70°E.

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

½

S6 | S5

1917

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

No trees within limits.

48.33 Drifting sand ridge, 20 ft. high, brs. NE. and extends SW 3 chs. to foot of mountain.

Chains	
43.65	Sand wash, near head, course NE.; asc. NE. slope, 70 ft.
48.10	Sand ridge, brs NE. and extends W. 2 chs. to foot on mt.
53.00	Small sand wash, near head, course NE.
53.25	Sandstone pinnacle, 30 ft. high, 50 lks. diam. on line.
57.20	Top of ascent and sand ridge, brs NE. and extends W 5 chs. to mountain; desc. SE. slope, 50 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. secs. 5,6,7 and 8, with brass cap mkd.

T44S	R1W
S6	S5
S7	S8

1917 from which

A cedar, 8 ins.diam.,bears N.83½°E., 202 lks.dist.,
mkd. T44S R1W S5 BT

A cedar,16 ins.diam.,bears S.27¼°E.,261 lks.dist.,
mkd. T44S R1W S8 BT

A cedar, 8 ins.diam.,bears S.83°W.,52 lks.dist.,
mkd. T44S R1W S7 BT

A cedar,8 ins.diam.,bears N.23½°W.,154 lks.dist.,
mkd. T44S R1W S6 BT

Land, rolling and broken, central portion lying at E. foot of high sandstone mountain, drainage to E.

Soil, deep, loose sand and sandstone bedrock.

Timber, scattering cedars on mile.

Undergrowth, sage, rabbit-brush, oose and grass.

East, on random line, bet. secs. 5 and 8.

40.00	Set temp. ¼ sec. cor.
80.05	Intersect N and S line, 2 lks. N. of cor. secs. 4,5,8 and 9.

Thence,

N. 89° 59' W., on true line, bet. secs. 5 and 8.

Over rolling land, facing NE., through scattering cedars.

40.02½	On slight NE. slope, 60 ft. above sec. cor.

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

Subdivision of T. 44 S., R. 1 W.

Chains	
	mound of stone, 5 ft. base, on bedrock, for ¼ sec. cor., with brass cap marked
	¼ S5 / S8 1917 from which
	A cedar, 8 ins. diam., bears N.13°W., 295 lks. dist., mkd. ¼ S5 BT
	A cedar, 16 ins. diam., bears S.65¼°W., 152 lks. dist., mkd. ¼ S8 BT
80.05	135 ft. above ¼ sec. cor.
	The cor. of secs. 5,6,7 and 8.
	Land, rolling, NE. exposure and drainage.
	Soil, sandy and sandstone bedrock
	Timber, scattering cedars on mile.
	Undergrowth, short sage, rabbit-brush, oose and grass.

	West, on random line, bet. secs. 6 and 7.
40.00	Set temp. ¼ sec. cor.
79.82	Intersect W. bdy. of tp., 1 lk. S. of the cor. secs. 1,6,7 and 12, described in survey of T.44 S., R. 2 W.
	Thence,
	East, on true line, bet. secs. 6 and 7.
	Over rolling land, gently asc. towards base of mountain, through scattering cedars.
10.00	Base of sandstone mountain, brs N. and S.30°E.; asc. abruptly over rocky W. face,
39.30	Top of ascent and mountain, 235 ft. above tp. cor., brs. N. and SW.
39.82	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, 6 ft. base, on bedrock, for ¼ cor., with brass cap marked
	¼ S6 / S7 1917
	No trees within limits, and no rock available for accessory mound.

Chains	
	Thence across nearly level top; the mountain rises higher N. of line.
49.00	E. rim of top, brs NE. and SW.; descend abruptly E. face.
56.00	Base of mountain, 210 ft. below top, brs NE. and SW.; thence gradually desc. rolling land, 90 ft. to
79.82	The cor. of secs. 5,6,7 and 8.
	Land, mountainous and rolling, crossing near S. end of sandstone mountain; drainage to W. on west ½ mile and to E. on remainder.
	Soil, mostly sandstone bedrock, with loose sand.
	Timber, very scattered cedars on mile.
	Undergrowth, scattered sage, rabbit-brush and oose.
	S. 0°03' E., on true line, bet. secs. 7 and 8.
	Over rolling land, facing E., through scattering cedars.
10.30	E. base of sandstone pinnacle, 30 ft. high, top of which brs. W. of line, 1 ch. dist.
30.93	Intersect Utah-Arizona bdy., N.89°58'E., 20.15 chs. dist., of the 116th mile cor., hereinafter described.
	At point of intersection,
	Set an iron post, 3ft. long, 2 ins.dia.,24 ins. in ground, for closing cor. of secs. 7 and 8, with brass cap marked

U
C | C
T44S | R1W
S7 | S8
A

1917 from which

A cedar, 4 ins.diam.,bears N.80½°E., 222 lks.dist.,
mkd. U CC T44S R1W S8 BT

A cedar, 7 ins.diam.,bears N.57°W.,367 lks.dist,.
mkd. U CC T44S R1W S7 BT

	Land, rolling, eastern exposure and drainage.
	Soil, loose sandy and scattered sandstone outcrops.
	Timber, scattering cedars:undergrowth, sage and oose.

Retracement of the Utah - Arizona State Boundary.

Chs.	
	From the closing cor. of T.44 S., Rs.1 & 2 W., described in the survey of T.44 S.,R.2 W., which is East, 20.07 chs dist. of the 115th. mile cor. on Utah-Arizona bdy.
	Thence,
	East, retracing on the 116th nile, of U - A. bdy.
59.67	Intersect the 116th mile cor., which is a sandstone, 8x15x6 ins. above ground, firmly set, properly marked and witnessed as described by the surveyor general.
	The true bearing of this mile is therefore, East and distance bet. the 115th & 116th. cors. is 79.74 chs.
	East, retracing the 117th mile.
80.07	Fall 5 lks. S. of the 117th mile cor., which is a sandstone, 12x14x4 ins. above ground, firmly set, mkd. and witnessed as described by the surveyor general.
	True bearing of this mile is therefore N.89°58'E., and dist. is 80.07 chs.
	East, retracing the 118th mile.
79.82	Fall 2 lks. S. of the 118th mile cor., which is a sandstone 8x20x4 ins. above ground, firmly set, mkd. and witnessed as described by the surveyor general.
	True bearing of this mile is therefore N.89°59'E., and dist. is 79.82 chs.
	East, retracing the 119th mile.
80.19	Fall 5 lks. N. of the 119th mile cor., which is a cross cut in E face of sandstone pinnacle, mkd. and witnessed as described by the surveyor general.
	The true bearing of this mile is therefore S.89°58'E.,and dist. is 80.19 chs.
	East, retracing the 120th mile.
58.71	High impassable wallahead on line, to avoid which, I

Chs.	
	Offset, North, 12.75 chs., thence
	East, on offset line,
79.98	Fall 25 lks. S. of the witness cor. to the 120th mile cor., which is placed 12.75 chs. N. of true point, which is a sandstone, 20x02x5 ins. above ground, firmly set, mkd. and witnessed as described by the surveyor general.
	True bearing of this mile is therefore N.89°49'E., and dist. is 79.98 chs.

Retracement of the Utah-Arizona State Boundary
and
Establishment of ¼ sec. cor.,on S. bdy of T.44S.,R. 1 W.

	From the closing cor. of T.44S.,R.1W & 2W.,heretofore described.
	East, retracing on the 116th mile.
	Over rolling land, through scattering cedars.
29. 30	Extreme S. base of sandstone mountain, brs NE and NW.
39.82	Position for ¼ cor. of sec. 7, westing of 40.00 chs. from the closing cor. of secs. 7 and 8.
	Set an iron post, 3 ft. long, 1 in. dia., 26ins. in ground, for ¼ cor. of sec. 7 only, with brass cap mkd.
	¼ S7 / 1917 from which
	A cedar, 6 ins.diam.,bears N.57°E.,53 lks. dist., mkd. ¼ S7 BT
	A cedar, 12ins.diam.,bears N.82½°W., 170 lks. dist., mkd. ¼ S7 BT
	Cor. situated on gentle E. slope, 80ft. below tp. cor.
59.67	The 116th mile cor. on Utah-Arizona bdy.
	Land, rolling and broken; exposure to E.
	Soil, loose sandy and sandstone outcrops.
	Timber, scattering cedars on mile.
	Undergrowth, scattering sage, rabbit-brush, oose and grass.

Chains	
	N.89°58'E., retracing the 117th mile.
	Over rolling land, facing NE., through scattering cedars.
20.15	The closing cor. of secs. 7 and 8, 100ft.below ¼cor.sec 7
60.19	Position for the ¼ cor., midway bet. the closing cors. of secs. 7 & 8 and 8 & 9.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec. 8 only, with brass cap mkd.
	¼ S8 / 1917 from which
	A cedar, 8 ins.diam.,bears N.23°E., 166 lks.dist., mkd. ¼ S8 BT
	A cedar,6 ins.diam.,bears N.20°W., 24 lks.dist., mkd. ¼ S8 BT
	Cor. situated on gentle N. slope, 50ft.below last cor.
80.07	The 117th mile cor.
	Land, rolling, exposure and drainage to NE and N.
	Soil, loose sandy and scattered sandstone bedrock.
	Timber, scattering cedars on mile.
	Undergrowth, sage, rabbit-brush and grass.

	N.89°59'E., retracing the 118th mile.
	Over rolling land, facing to the N.,through scattering cedars.
20.16	The closing cor. of secs. 8 and 9.
	Thence gradually asc. nearly N. slope.
41.00	Top of wide flat ridge, 40 ft. above last cor., brs N and S.; gradually desc. nearly E. slope.
60.22	Position for ¼ sec. cor., midway bet. the closing cors. of secs. 8 & 9 and 9 and 10.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec. 9 only, with brass cap mkd.
	¼ S9 / 1917 from which
	A cedar,14 ins.diam.,bears N.42½°E., 176 lks.dist., mkd. ¼ S9 BT

Chains	
	A cedar,20 ins.diam.,bears N.22½°W., 258 lks.dist., mkd, ¼ S9 BT
	Con. situated on gentle NE slope, 50 ft. below top of ridge.
79.82	The 118th mile cor.
	Land, rolling; slope to N & NW on W.21chs.,and to NE.& N. on remainder.
	Soil, loose sandy, gravelly and stony.
	Timber, scattering cedars on mile.
	Undergrowth, sage. rabbit-brush and grass.

	S.89°58'E., retracing the 119th mile.
	Over gently rolling land, slope to N., through scattering cedars.
20.46	The closing cor. of secs. 9 and 10.
60.46	Position for ¼ cor., midway bet. the closing cors. of secs. 9 & 10 and 10 & 11.
	Set an iron post, 3ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec. 10 only, with brass cap mkd.
	¼ S10 / 1917 from which
	A cedar, 10 ins.diam.,bears N.56½°E.,59 lks.dist., mkd. ¼ S10 BT
	A cedar, 7 ins.diam.,bears N.66½°W.,136 lks.dist., mkd. ¼ S10 BT
72.90	Enter barren sandrocks and pinnacles, brs N. and S.
80.19	The 119th mile cor.
	Land, rolling, general exposure and drainage to N.
	Soil, mostly loose sandy and gravelly, with some sandstone bedrock and outcrops.
	Timber, scattering cedars on W. 73 chs.
	Undergrowth, short sage, rabbit-brush, shadscale and grass.

	N.89°49'E., retracing the 120th mile.
	Over rough barren sandrocks; asc. 70 ft. to

Retracement of the Utah-Arizona State Boundary
and
Establishment of ¼ sec cors. on S.bdy of T.44S., R.1W

Chains	
2.00	Top of sandrocks forming ridge, brs N. and S.; desc.
3.75	Base of sandrocks, brs N. and S.; continue gradual descent over sandy rolling land, facing NE.
20.27	The closing cor. of secs. 10 and 11, 125 ft. below ridge.
37.60	Wash, 15 lks. wide, 6 ft. deep, course N.
58.71	True position for ¼ cor., midway bet. the closing cors. of secs. 10 & 11 and 11 & 12, which is N.89°49'E., 1.59 chs. dist., falls at foot of high rock wall, about 700ft. high, among boulders and on steep slope, is impracticable to set; therefore at this point
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, 5 ft. base, on bedrock, for witness ¼ cor. of sec. 11 only, with brass cap mkd.
	¼ S11 / 1917 WC from which
	A cedar, 9 ins. diam., bears N.80°E., 166 lks. dist., mkd. WC ¼ S11 BT
	A cedar, 24 ins. diam., bears N.8½°W., 178 lks. dist., mkd. WC ¼ S11 BT
	Thence offset,
	North, 12.75 chs., thence on offset line, N.89°49'E.
79.98	The 120th mile cor. (Witness cor.)
	Land, rolling, N. slope and drainage.
	Soil, loose sandy and rocky; sandstone formation.
	Undergrowth, sage, rabbit-brush, oose and grass.
	Timber, very scattered cedars on greater portion of mile.

Note: The 121st. mile was not retraced; this mile crosses the Buckskin gulch and Paria river gulch, and would be very difficult to survey, and require considerable amount of time.

Boundaries of T. 44 S.,R.1 W.

Latitudes, departures and closing errors.

Lines designated	True bearings	Distances.	Latitudes N	Latitudes S	Departures E	Departures W
		chs.	chs.	chs.	chs.	chs.
East bdy	North	111.18	111.18			
North bdy	West	479.70				479.70
West Bdy.	South	111.03		111.03		
S bdy 116m	East	59.67			59.67	
117th M	N89°58'E	80.07	.05		80.07	
118th M	N89°59'E	79.82	.02		79.82	
119th M	S89°58'E	80.19		.05	80.19	
120th M	N89°49'E	79.98	.26		79.98	
121st M	East	80.00			80.00	
122nd M	East	20.21			20.21	
Convergency						.13
			111.51	111.08	479.94	479.83
			111.08			
	Error in latitude		0.43		479.83	
	Error in departure		----------		0.11	

General Description of T.44 S., R. 1 W.

This fractional township contains principally rolling bench lands, with few scattered sandstone outcrops, the largest one is in secs. 6 and 7, rises about 700ft. above surrounding bench. In the extreme eastern part in secs. 1 and 12, is point of high mesa land, 700 ft. above rim of Paria river canyon, the edge of which is a perpendicular sandstone wall.

The township lies along the Buckskin Gulch, which drains the geater portion in an easterly direction. This gulch is a narrow chasm cut through perpendicular sandstone walls, from 500 ft. to 800ft. deep, has an average width of only 2 chs. There is no living water in this gulch, the bottom is inaccessible and the nearest crossing is about 5 miles W of township.

Paria river, having a southerly course, flows through secs. 1 and 12, is in a chasm similar to the Buckskin Gulch, about 1000 ft. deep. The stream is about 20 lks wide

General Description of T. 44 S., R.1 E

1 to 2 ft. deep, cannot be reached from the top.

There is no other water in the tp.

The township is covered with a scattering growth of scrub oaks, and undergrowth of sagebrush, rabbit-brush, yucca, cactus and bunch grass.

The soil is principally a loose, fine, red sand, with scattered sandstone bedrock and outcroppings.

The tp. is adapted only for grazing; water for stock purposes is found in pockets and seeps to the west of this tp.

No indications of mineral were found in the tp.

There are no settlers in the tp.

BOOK A-437

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.

on T.44 S., R.1 W.

NAME.	PERIOD OF SERVICE. Begun.	Ended.	CAPACITY.
Frank Romney	Aug. 20,1917	Oct. 10,1917	H. Chainman
James Hill	" " "	Aug.25,1917	R. Chainman
Harold Evans	" " "	Oct. 10,1917	Cornerman
James Stewart	" " "	" " "	Flagman
Wayne Clark	Oct. 10,1917	Oct. 10,1917	R. Chainman
Lacell Bird	" " "	" " "	H. Chainman
Richard Huntington	" " "	" " "	R. "
Wilfred Williams	" " "	" " "	Cornerman
Frank H. Clark	" " "	" " "	Ax & flagman

The above assistants were employed by me in the execution of surveys in T.44 S., R. 1 W.

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

Andrew Nelson

U. S. ~~Surveyor.~~ Transitman

6—2764

CERTIFACTE TRANSITMEN

FINAL ~~OATH~~ OF UNITED STATES ~~SURVEYOR~~.

We ~~I~~, Andrew Nelson & Elliot Bird, Transitman ~~U. S. Surveyor~~, do certify on honor ~~solemnly swear~~ that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the 1st day of Feb., 1916, We ~~I~~ have well, faithfully, and truly, in our ~~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 of the Utah-Arixona State boundary along S bdy of T.44 R. 1 W., the East bdoundry and subdivision of T.44 S.,R. 1 W.

of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by us ~~me~~, and under our ~~my~~ direction; and We ~~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.

and date diagram on page 1 on dates as shown on said diagr

Andrew Nelson
Elliot Bird
U. S. ~~Surveyor~~. Transitmen

~~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, Oct. 30, 1918.

The foregoing field notes of the ~~survey of~~ retracement of the Utah-Arizona State boundary along the south boundary of Township No. 44 South, Range No. 1 West; and the survey of the east boundary and subdivisional lines of Township No. 44 South, Range No. 1 West of the Salt Lake Base and Meridian, Utah,

executed by Andrew Nelson and Elliot Bird

under ~~his~~ special instructions dated February 1, 1916, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the retracements and surveys they describe, are hereby approved.

A. O. Thorsen
U. S. Surveyor General.

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

U. S. Surveyor General.

6—2784

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U.S. MAR 28 1918 SALT LAKE CITY, UTAH

BOOK A-437

G.

FIELD NOTES

~~OF THE SURVEY OF THE~~

Retracement and Resurvey of the East boundary, portion of South boundary, and portion of Subdivision; Survey of portion of South boundary and portion of Subdivision of

T. 43 S., R. 1 E.

Of the Salt Lake Base and *Meridian,*

In the State of Utah

EXECUTED BY

Andrew Nelson, U.S. Transitman

and

Elliot Bird, U.S. Transitman

In the capacity of U. S. Surveyors, under instructions dated Feb. 1, *1916, issued by the United States Surveyor General to govern surveys included in Group No.* 50, *which were approved by the Commissioner of the General Land Office,* March 25, *191*6, *pursuant to authority contained in the Act of Congress dated* , *191* Supplemental assignment instructions issued by Assistant Supervisor of Surveys July 25, 1917 and Sept. 5, 1917, respectively.

Survey commenced September 27, *1917*

Survey completed October 23, *1917*

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Examination Cleared

A Plat E.B.B. Notes E.B.B.

B Computations E.B.B.

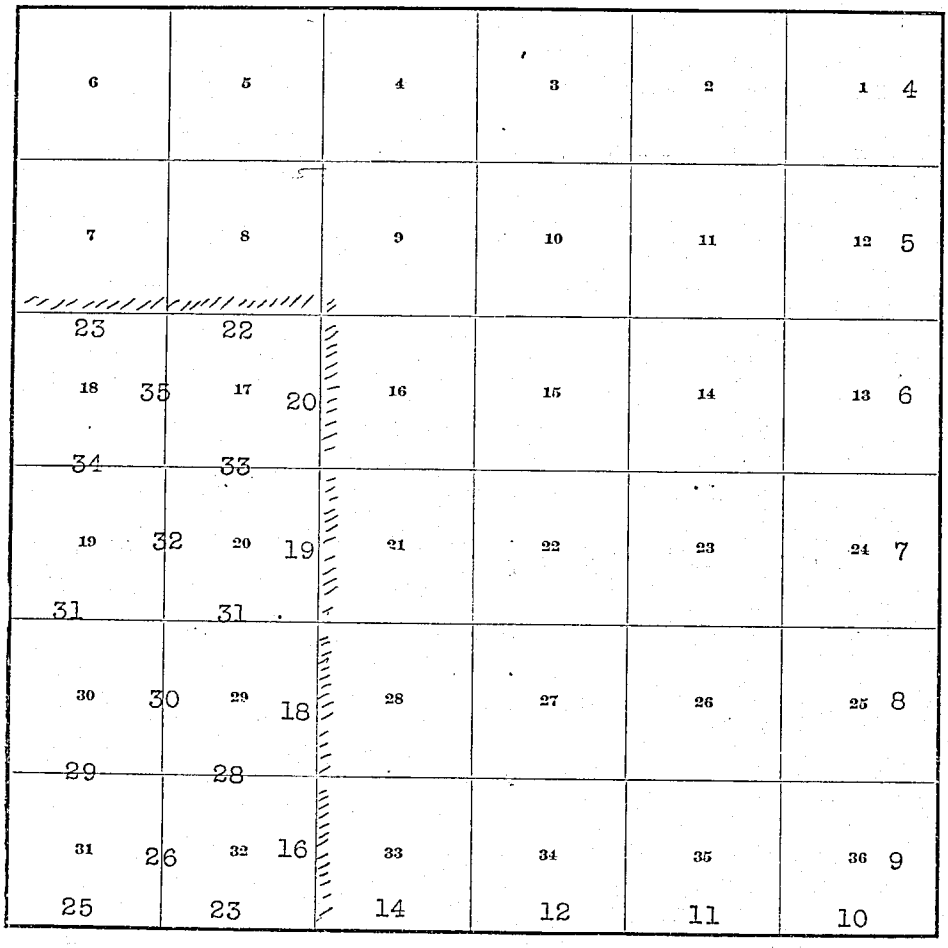
Comparing

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

BOOK A-437

INDEX DIAGRAM.

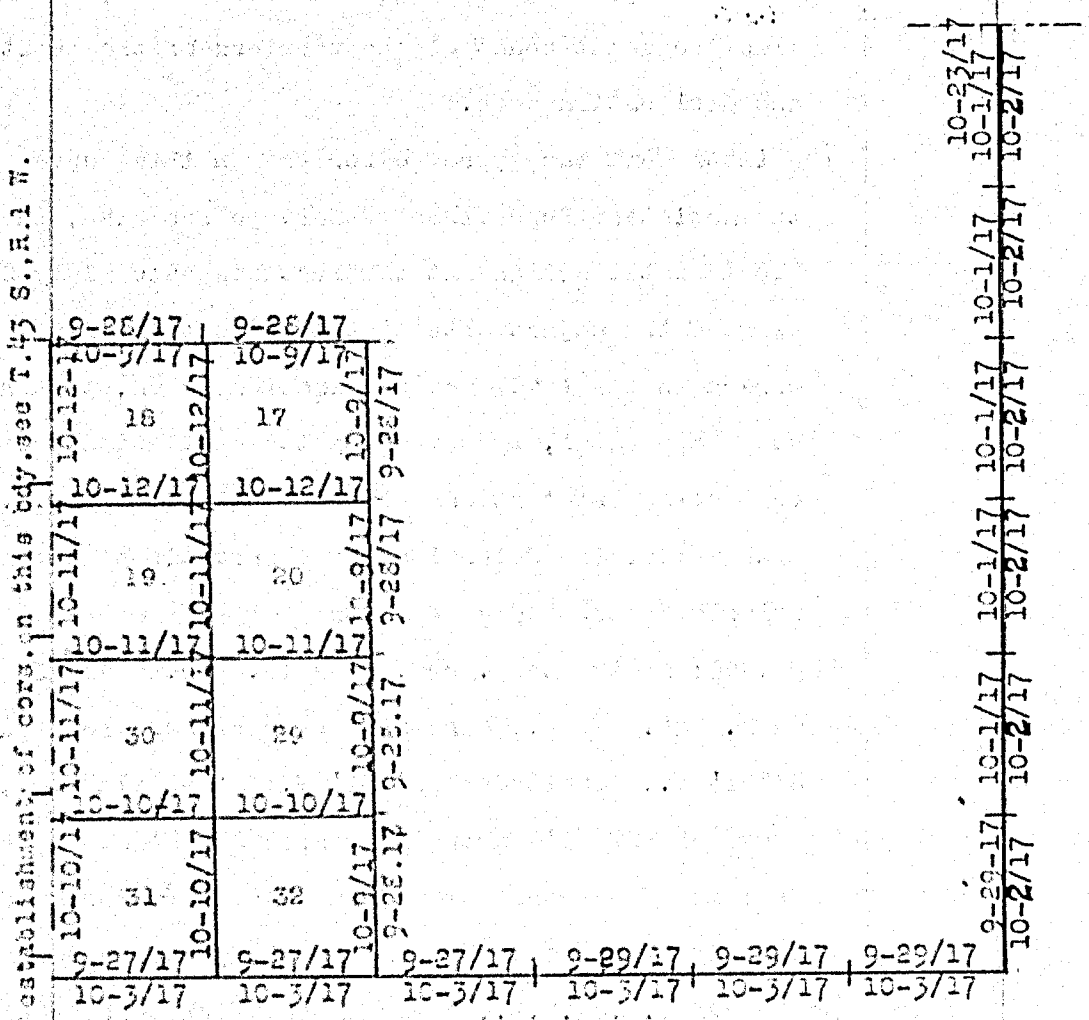
Township 43 South, *Range* 1 East



6—151

Retracement of south and east boundary T.43 S.,R.1 E

Date Diagram of T. 43 S., R. 1 E.



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

Lines colored and dated with red ink, were surveyed by Elliot Bird, U. S. Transitman

---

Survey commenced September 27, 1917 and executed with Young & Sons light mountain transits Nos. 8589 (used by Andrew Nelon) and 8487 (used by Elliot Bird), equipped with Smith's solar attachment. For complete description, test and approval of transit No. 8487, see survey of T.43 S.,R.1 W. Transit No. 8589 is used in the following test; the horizontal limb is provided

Retracement of South and East Boundaries T.43 S.R.1 E.

Chains

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, in supplemental assignment instructions dated July 25,1917.

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

Sept. 28; At the temp. cor. of secs. 4,5,32 and 33, on S. bdy. of tp., hereinafter described, latitude 37°01' N., longitude 111° 51' W.; at 4h 51m p.m.,l.m.t., I set off 37°01' on the lat. arc; 2° 03' S. on the decl. arc; and determine a meridian with the solar, and note that my line bet. secs. 32 and 33, just run bears North.

At 7h 07m p.m.,l.m.t., by my watch which carries correct 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 stake driven in the ground, about 5 chs. N. of my station.

Sept. 29: At 7 a.m.,l.m.t., I lay off azimuth 1° 25' to the west, and find that my line bet. secs. 32 and 33 bears N.0° 00½' W.; therefore the instrument by a.m. and p,m. observations defines positions for meridians that do not very more than ½' from the true meridian, I conclude that the instrument is in good adjustment.

The magnetic bearing of the true meridian, at 7h 30m a.m., is N. 15°30'W.; the angle thus determined gives the mag. decl. 15° 30'.

Chains	
	Steel tapes, 5 and 8 chains long were used in all measurements, together with clinometers for determining slope angles, and the reduced horixontal distances only appear in the field noted. The tapes were tested, comparison being made with a standard tape, 1 chain long, kept and used for that purpose.

	From the temp. cor. of secs. 4,5,32 and 33, on S. bdy. of T.43 S.,R.1 E., set Sept. 28th; for complete details of establishment of this point,see retracement of subdivision on page 15of these notes.
	Thence,
	East, retracing along the S. bdy. of tp., making careful searches at intervals of 40.00 chs. for ¼ sec. and sec. cors., failing to find any trace of original cors., and at
320.00	(Record distance) Set temp. cor. of Ts.43 & 44 S.,Rs. 1 & 2 E.
	Thence, from this temp. tp. cor.
	North, retracing along the E. bdy., continuing to make careful and diligent searches at each ½ mile, failing to find any trace of old cors., until at, 397.24 chs., fall 2.64 chs. W. of the original cor. of secs. 1,6, 7 and 12, which I find to be a sandstone, 6x8x3 ins., lying on the ground, plainly marked with one notch on one edge, no other marks discernible, and unwitnessed.

	To more clearly identify the cor. of secs. 1,6,7 and 12, I retrace from said cor.
	North, bet. secs. 1 and 6.
40.00	Intersect the ¾ sec. cor., which I find to be a sandstone, 10x7x7 ins. above ground, firmly set, plainly marked ¼ on W. face, unwitnessed.
	From ¼ cor. continue North.

Resurvey of East Boundary of T.43 S., R. 1 E.

Chains

30.42 Intersect N. bdy. of tp., 94 lks. W. of the reestablished cor. of Ts.42 & 43 S.,Rs.1 & 2 E., for description see survey of T.42 S.,R.2 E.

True course and distance of S. ½ mile is therefore, North, 40.00 chs., and of the N. ½ mile, N. 1°20'E., 40.43 chs.

From the cor. of Ts.42 & 43 S.,Rs.1 & 2 E.

Thence,

S. 1°20' W., resurveying bet. secs. 1 and 6.

Over rolling, open sandy bench land, facing to NE., through short undergrowth.

17.60 Stock trail, brs. N.80°W.,and S.80°E.

37.40 Bottom of rocky ravine, 20 ft. deep, 40 lks. wide at bottom, course NE.

40.43 The original ¼ sec. cor., heretofore described. I build small mound of stone to W. of stone.

Thence, South.

41.60 Small ravine, 6 ft. deep, course NE.

80.43 The original cor. of secs. 1,,6,7 and 12, heretofore mentioned. I set stone firmly in the ground at same point, and reestablish cor. as follows:

Set an iron post, 3 ft. long, 2 ins. dia., alongside of stone, 24 ins. in ground, with brass cap marked

T43S

R1E	R2E
S1	S6
S12	S7

1917

dig pits, 18x13x12 ins., in each sec. 5½ ft. dist. of post.

Land, rolling and gently rolling, having a slight exposure and drainage to NE.

Soil, loose, fine sandy and gravelly, with few rock at ravine near ¼ cor.

Chains	
	Undergrowth, short sagebrush, greasewood, oose, yellow-top and grass.
	No timber. Grazing land.

	There being no old cors. found along the S. bdy. and the S. 5 miles of E. bdy., whereby I could restore the missing cors. by proportionate measurement. I proceed to establish the S. 5 miles of E. bdy., by running S. on original course, setting ¼ sec. and sec. cors. at intervals of 40.00 chs., from the cor. of secs. 1,6, 7 and 12.
	South, resurveying bet. secs. 7 and 12.
	Over gently rolling, open, sandy bench land, slight slope to the N., through short undergrowth.
8.50	Old Navajo trail, from Paria river to Wahweap creek, brs. N.70°W. and S.70°E.
28.75	Stock trail, brs. N.80°E. and S.80°W.
40.00	On slight N. slope, 40 ft. above sec. cor.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S12 | S7 1917
	dig pits, 18x18x12 ins., N. and S. 3 ft. dist. of post.
54.00	Enter rocky land, and scattering cedar and pinon timber, brs. E. and W.
58.00	Leave bench land, at base of red sandstone break, 60 ft. above ¼ cor., brs. nearly E. and W.; asc. abruptly N. slope over broken ledges and bedrock, 225 ft. to
80.00	On gentle N. slope at top of break, brs. E. and W.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 7,12, 13 and 18, with brass cap marked

Resurvey of East Boundary of T.43 S.,R. 1 E.

Chains

T43S

R1E	R2E
S12	S7
S13	S18

1917 from which

A cedar,12 ins.diam.,bears N.71¼°E., 362 lks.dist., mkd. T43S R2E S7 BT
A cedar, 8 ins.diam.,bears S.30¾°E.,399 lks.dist., mkd. T43S R2E S18 BT
A cedar,13 ins.diam.,bears S.46¾°W., 502 lks.dist., mkd. T43S R1E S13 BT
A cedar, 6 ins.diam.,bears N.60°W., 343 lks.dist., mkd. T43S R1E S12 BT

N. 58 chs. gently rolling bench land, sloping N. and lying under sandstone break, which extends in an easterly and westerly direction; S. 22 chs. passes over break.

Soil, loose, dry, fine sandy and gravelly on bench land; remainder is rocky, sandstone ledges and bedrock.

Undergrowth, short sage, oose, greasewood and grass.

Timber, scattering scrub cedar and pinon on S. 26 chs.

South, resurveying bet. secs. 13 and 18.

Over rolling higher bench land, (locally known as flat top mountain) through scattering cedar and pinon timber.

Gradually asc. N. and NW. slopes, 80 ft. to

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

¼

S13 | S18

1917 from which

A cedar, 6 ins.diam.,bears S.66°E., 597 lks.dist., mkd. ¼ S18 BT
A cedar limb,6 ins.diam.,bears S.78°W.,242 lks.dist., mkd. ¼ S13 BT

68.00 Top of ascent, 30 ft. above ¼ cor., brs. N.70°E. and S.70°W.; thence over gentle SE. slope.

77.50 Ravine, near head, 15 ft. deep, course N.60°E.

80.00 Set an iron post, 3 ft. long, 2 ins.dia., 24 ins. in ground, for cor. of secs. 13,18,19 and 24, with brass cap marked

Chains	
	T43S R1E | R2E S13 | S18 S24 | S19 1917 from which
	A cedar, 12 ins.diam., bears S.68½°E., 71 lks.dist., mkd. T43S R2E S19 BT A cedar, 6 ins.diam., bears S.21°W., 60 lks. dist., mkd. T43S R1E S24 BT A cedar, 8 ins.diam., bears N.81½°W., 63 lks.dist., mkd. T43S R1E S13 BT
	No suitable trees within limits in sec 18, and pits impracticable.
	Land, rolling top of bench, with general slight slope to N. and NW on the N. 62 chs. and to SE on remainder.
	Soil, gravelly and sandy.
	Timber, scattering cedar and pinon on mile.
	Undergrowth, short, sage, yellow-top, shadscale and grass.
	South, resurveying bet. secs. 19 and 24.
	Over rolling land, having a slight general slope to NE & E. through scattering cedar and pinon timber.
14.75	Ravine, 15 ft. deep, general course to NE.; asc.
25.00	Leave all timber, brs. E. and W.
26.50	Top of ascent, 25 ft. above ravine, brs N.70°E & S.70°W. thence over more gently rolling land.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked ¼ S24 | S19 1917 dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.
46.00	Small swale, drains NE.
80.00	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in ground, for cor. of secs. 19,24,25 and 30, with brass cap marked

Resurvey of East Boundary of T.43 S.,R.1 E.

Chains	
	T43S R1E | R2E S24 | S19 S25 | S30 1917
	dig pits, 18x18x12 ins., in each sec. 5½ft. dist. of post.
	Land, gently rolling, having a slight exposure and drainage to NE.
	Soil, sandy and gravelly loams, on gravel subsoil.
	Undergrowth, short, yellow-top, shadscale, grass and sage.
	Timber, scattering cedar and pinon on N. 25 chs.
	Good grazing land.

	South, resurveying bet. secs. 25 and 30.
	Over gently rolling bench land, slight slope to E., through short undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked ¼ S25 | S30 1917
	dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist.
65.00	Top of slight raise which forms flat divide bet. Paria and Wahweap, brs. about E. and W.; begin slight descent over S. slope.
78.00	Enter scattering timber of cedar and pinon, brs. E. and W.
80.00	Set an iron post, 3 ft. long. 2 ins. dia., 24 ins. in ground, for cor. of secs. 25,30,31 and 36, with brass cap marked T43S R1E | R2E S25 | S30 S36 | S31 1917 from which
	A cedar, 8 ins.diam.,bears N.16°E., 366 lks.dist., mkd. T43S R2E S30 BT A cedar, 8 ins.diam.,bears S.12°E., 49 lks. dist., mkd. T43S R2E S31 BT

Chains	
	A cedar, 6 ins.diam.,bears S.26¾°W., 541 lks.dist., mkd. T43S R1E S36 BT
	A cedar, 8 ins.diam.,bears N.38¼°W., 276 lks.dist., mkd. T43S R1E S25 BT
	Land, rolling top of bench, slight exposure to NE. on N. 65 chs., and to S. on remainder.
	Soil, a sandy and gravelly loam.
	Undergrowth, short sage, shadscale, yellot-top and grass.
	Timber, scattering cedar and pinon on S. 2 chs.
	Good grazing land.

	South, resurveying bet. secs. 31 and 36.
	Over rolling land, on top of bench, gently desc. S. slope, through scattering cedar and pinon timber.
17.00	Enter scattering sandstone bedrock, brs. E. and W.
23.75	Rim of bench and top of red sandstone break, 70 ft. below sec. cor., brs. N.70°E. and W.; desc. abruptly S. face over ledges and bedrock, 175 ft. to
30.00	Base of break, brs. E. and W.; thence gradually descend over lower bench land, 30 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S36 | S31 1917 from which
	A cedar, 8 ins.diam.,bears S.74½°E., 61 lks. dist., mkd. ¼ S31 BT
	A cedar,10 ins.diam.,bears S.51°W., 399 lks.dist., mkd. ¼ S36 BT.
60.00	Top of rim rock, 50 ft. high, brs. E. and W.; desc.
68.50	Wash, 50 lks. wide, 4 ft. deep, in Judd Hollow, 150 ft. below ¼ cor., course S.70° W.; asc. 75 ft. to
77.00	Top of S. edge of hollow, brs. E. and S.70°W.; thence over rolling top.
80.00	On a gentle N. slope.
	Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in ground, for cor. of Ts. 43 & 44 S.,Rs. 1 & 2 E., with

Chains

brass cap marked

T43S
R1E | R2E
S36 | S31
S1 | S6
T44S
1917 . from which

A cedar, 6 ins.diam., bears N.56¾°E., 96 lks.dist., mkd. T43S R2E S31 BT
A cedar, 20 ins.diam., bears S.56¾°E., 308 lks.dist., mkd. T44S R2E S6 BT
A cedar, 16 ins.diam., bears S.5¼°W., 97 lks.dist., mkd. T44S R1E S1 BT
A cedar, 10 ins.diam., bears N.78¾°W., 315 lks.dist., mkd. T43S R1E S36 BT

Land, rolling and broken with sandstone breaks, draining into Judd Hollow, which drains SW. towards Paria river.
Soil, loose sand, gravel, with sandstone bedrock and ledges.
Timber, scattering cedar and pinon on mile.
Undergrowth, sage, greasewood, yellow-top and grass.
Good grazing land.

From the above tp. cor. I resurvey the E. 4 miles of S. bdy. of tp. on record course, setting ¼ sec. and sec. cor. at intervals of 40.00 chs.; as follows:
West, resurveying S. bdy. of tp., bet. secs. 1 and 36.
Over rolling land, along top of bench, through scattering cedar and pinon timber.

7.00 Leave bench and rim of Judd Hollow, brs. N.70°E. and SW.
Desc. abruptly broken NW. and W. slope, 125 ft. to
25.40 Wash, 40 lks. wide, 4 ft. deep, in bottom of Judd Hollow, course S.60°W.; thence over low sandy land.
38.00 Wash, 40 lks. wide, 2 ft. deep, from N. and NW., course S.
40.00 On E. sandy slope at foot of ridge.
Set an iron post, 3 ft. long, 1 lin. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked

¼ S36
S1
1917 from which

A cedar, 8 ins.diam., bears N.2° W., 483 lks.dist., mkd. ¼ S36 BT

Resurvey of South Boundary of T.43 S.,R.1 E.

Chains	
	No trees within limits in sec. 1, and pits impracticable, loose sand.
	Asc. steep E. slope, 100 ft. to
53.00	Top of ascent on sand ridge, brs. NE. and SW.; thence along S. slope.
68.00	Base of sandstone rim and bedrock, brs NE. and SW.; extends N. about 5 chs. to end, and to the S. becomes high break.
	Asc. steep E. slope, 125 ft. to
78.00	Top of same, brs. NE. and SW.; thence over rolling sandy bench land.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 1,2,35 and 36, with brass cap marked

T43S	R1E
S35	S36
S2	S1

T44S

1917 from which

A cedar, 7 ins.diam.,bears S.21¾°E., 130 lks.dist., mkd. T44S R1E S1 BT

A cedar, 8 ins.diam.,bears S.85°W., 250 lks.dist., mkd. T44S R1E S2 BT

A cedar, 8 ins.diam.,bears N.49¾°E., 225 lks.dist., mkd. T43S R1E S36 BT

No suitable tree within limits in sec. 35, and pits impracticable.

Land, rolling and broken, draining into Judd Hollow.

Soil, loose, fine red sand, sandstone bedrock and some gravel.

Undergrowth, yellow-top, brigham-tea, oose and grass.

Timber, scattering cedar and pinon on mile.

Fair grazing land.

West, resurveying bet. secs. 2 and 35.

Over rolling and broken bench lands, through scattering timber of cedar and pinon.

Resurvey of South Boundary of T.43 S.,R.1 E.

Chains	
22.10	Ravine, 20 ft. deep, course S.30°W.
33.70	Ravine, 20 ft. deep, course nearly S.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked

¼ S35 / S2 1917 from which

A cedar, 6 ins.diam.,bears S.10¼°E., 105lks.dist., mkd. ¼ S2 BT

A cedar, 6 ins.diam.,bears N.86¼°E.,238 lks.dist., mkd. ¼ S35 BT

42.70	Top of slight ascent and ridge, brs N. and S.
51.90	Ravine, 25 ft. deep, course S.40°E.; asc.
70.00	Top of flat ridge, 60 ft. above last ravine, brs. N. & S.
	Desc. 10 ft. to
80.00	On W. slope.

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

T43S	R1E
S34	S35
S3	S2

T44S 1917 from which

A cedar,12 ins.diam.,bears N.31°E.,222 lks.dist., mkd. T43S R1E S35 BT

A cedar,12 ins.diam.,bears S.28½°E.,253 lks.dist., mkd. T44S R1E S2 BT

A cedar, 4 ins.diam.,bears S.69¼°W.,290 lks.dist., mkd. T44S R1E S3 BT

A cedar,8 ins.diam.,bears N.69¼°W., 215 lks.dist., mkd. T43S R1E S34 BT

Land, rolling and broken, drainage to S.

Soil, loose, fine red sand, gravel and sandstone bedrock.

Timber, scattering cedar and pinon.

Undergrowth, yellow-top, white-sage, oose and grass.

Fair grazing land.

West, resurveying bet. secs. 3 and 34.

Over broken bench land, having a general S. slope., through scattering cedar and pinon timber.

Chains	
1.50	Wash, 10 lks. wide, 2 ft. deep, course SW.
15.00	Ravine, 15 ft. deep, course SW.
32.00	Ravine, 15 ft. deep, course S.30°W.
40.00	On an E. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S34 / S3 1917 from which
	A cedar, 6 ins. diam., bears S.58½°E., 168 lks. dist., mkd. ¼ S3 BT
	A cedar, 6 ins. diam., bears N.0°15'W., 240 lks. dist., mkd. ¼ S34 BT
45.00	Draw, 10 ft. deep, course S.70°E.; gradually asc. NE. slope.
62.00	Draw, 15 ft. deep, course SE.
80.00	On NE. slope, 80 ft. above ¼ cor.
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in ground, for cor. of secs. 3, 4, 33 and 34, with brass cap marked
	T43S R1E / S33 S34 / S4 S3 / T44S 1917 from which
	A cedar, 10 ins. diam., bears N.60½°E., 149 lks. dist., mkd. T43S R1E S34 BT
	A cedar, 8 ins. diam., bears S.16°E., 240 lks. dist., mkd. T44S R1E S3 BT
	A cedar, 24 ins. diam., bears S87½°W., 115 lks. dist., mkd. T44S R1E S4 BT
	A cedar, 10 ins. diam., bears N.63½°W., 236 lks. dist., mkd. T43S R1E S33 BT
	Land, broken bench; facing to SW on E. 45 chs. and to NE. on remainder; drainage to S. into Paria river.
	Soil, loose sand, gravelly and rocky of sandstone formation.
	Timber, scattering scrub cedar and few pinon.
	Undergrowth, sage, brigham-tea, oose and grass.
	Fair grazing land.

Resurvey of South Boundary of T.43 S.,R.1 E.

Chains	
	West, resurveying bet. secs. 4 and 33
	Over rolling land, gradually asc. general E. slope, through scattering cedar and pinon timber.
40.00	On nearly flat top, 70 ft. above sec. cor.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S33 / S4 1917 from which
	A cedar, 6 ins. dia., bears S.12½°W., 100 lks. dist., mkd. ¼ S4 BT
	A cedar, 12 ins. diam., bears N.3°W., 132 lks. dist., mkd. ¼ S33 BT
42.00	Top of gradual ascent and wide ridge, brs. N. and S.
	Begin gradual descent over W. slope.
60.10	Old brush fence brs. N. and S.
76.00	Draw, 20 ft. deep, course SW.
80.00	150 ft. below ridge, on S. slope.
	Set an iron post, 3 ft. long, 2 ins., diam., 24 ins. in ground, for cor. of secs. 4,5,32 and 33, with brass cap marked
	T43S R1E / S32 S33 / S5 S4 / T44S 1917 from which
	A cedar, 4 ins. diam., bears N.87°E., 140 lks. dist., mkd. T43S R1E S33 BT
	A cedar, 8 ins. diam., bears S.44°E., 52 lks. dist., mkd. T44S R1E S4 BT
	A cedar, 10 ins. diam., bears S.57°W., 44 lks. dist., mkd. T44S R1E S5 BT
	A cedar, 12 ins. diam., bears N.44°W., 89 lks. dist., mkd. T43S R1E S32 BT
	The temp. sec. cor. heretofore mentioned in the retracement of this line, brs. N. 2.76 chs. and W. 2.64 chs. distance.
	Land, rolling; general E. exposure on E. 42 chs. and to W. on remainder.
	Soil, loose, fine red sand, sandstone rocks and gravel.
	Timber, scattering cedar and pinon on mile.
	Undergrowth, brigham-tea, yellow-top, oose, sage & grass.

Chains	
	From the re-established cor. of secs. 7 and 18 on W. bdy. of T.43 S.,R.1 E., described in the survey of T.43 S., R.1W.
	East, retracing bet. secs. 7 and 18.
40.00	After a careful search, no trace of the original ¼ sec. cor. found. Set temp. cor.
79.73	Fall 69 lks. N. of the original cor. of secs. 7,8,17 and 18, which I find to be an old cedar stake, 1½ ins. dia., 2 ft. long, plainly marked with 5 notches on one edge, and 4 notches on cornering edge, lying on the ground, unwitnessed. For re-establishment of this cor. see resurvey of line bet. secs. 8 and 17.
	True course and distance of this mile is therefore, S. 89°30' E., 79.73 chs.

	From cor. of secs. 7,8,17 and 18.
	East, retracing bet. secs. 8 and 17.
40.00	After a careful search, no trace of the original ¼ sec. cor. found. Set temp. cor.
80.20	Fall 77 lks. N. of the original cor. of secs. 8,9,16 and 17, which I find to be an old cedar stake, 1½ ins. dia., 2 ft. long, plainly marked with 4 notches on one edge, and 4 notches on cornering edge, lying on ground, unwitnessed. For re-establishment of cor. see resurvey line W. bdy. of sec. 16.
	True course and distance of this mile is therefore, S. 89°27' E., 80.20 chs.

	From the above cor. of secs. 8,9,16 and 17.
	I retrace South bet. secs. 16-17, 20-21, 28-29, and 32-33, setting temp. ¼ sec. and sec. cors. at intervals of 40.00 chs., after making diligent searches and finding no traces of the original cors. at these points.
320.00	Set temp. cor. of secs. 4,5,32 and 33 on S. bdy. of tp.

Resurvey of Subdivision of T.43 S., R.1 E.

Chains	
	Subsequently this cor. is re-established at a point which bears, south 2.76 chs., and east 2.64 chs. dist.
	Therefore a line connecting the re-established cor. of secs. 4,5,32 and 33 on S. bdy. with the cor. of secs. 8,9,16 and 17, bears N. 0°28' W., and the proportionate length of each mile is 80.69 chs.
	I resurvey the line bet. the above cors. setting two sets of cors., one at proportionate distances for the secs. to east of line, and one at intervals of 40.00 chs. for the new work to west of line.

	Resurvey of Subdivision of T.43 S., R.1 E.
	From the re-established cor. of secs. 4,5,32 and 33 on S. bdy. of tp. For description see resurvey of S. bdy.
	Thence,
	N. 0°28' W., resuveying along W. bdy. of sec. 33.
	Ascend broken S. slope, rocky soil; through scattering cedar and pinon timber.
9.00	Top of steep ascent and sandstone rim, 75 ft. above cor., brs. N.60°E., and S.70°W. for about 10 chs., thence NW.
	Thence gently asc. over top of bench land, slight W. slope.
17.00	Top of ascent, 20 ft. above rim.
33.00	Begin descent over N. slope, brs. E. and W.; timber becomes more scattering.
40.00	On N. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec. 32 only, with brass cap marked
	S32 ¼ | 1917 from which
	A cedar, 8 ins.diam., bears S.14½°W., 127 lks.dist., mkd. ¼ S32 BT
	A cedar, 20 ins.diam., bears N.75°W., 120 lks.dist., mkd. ¼ S32 BT
40.34½	Proportionate distance.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in

Chains	
	ground, for ¼ cor. of sec. 33 only, with brass cap marked ¼ | S33 1917 from which
	A cedar, 20 ins.diam., bears S.83°E., 254 lks.dist., mkd. ¼ S33 BT
	No other trees within limits, and pits impracticable, loose sand.
	Continue gradual descent over nearly smooth N. slope.
55.25	Stock trail, brs. NW. and SE.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 29 and 32, with brass cap marked T43S S29 / S32 R1E | 1917 from which
	A cedar, 10 ins.diam., bears N.63½°W., 175 lks.dist., marked T43S R1E S29 BT
	No other trees within limits, and pits impracticable.
80.69	On gentle N. slope, 135 ft. below ¼ sec. cor.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 28 and 33, with brass cap marked T43S S28 / S33 R1E | 1917 from which
	A cedar, 24 ins.diam., bears S.60½°E., 315 lks.dist., marked T43S R1E S33 BT
	No other trees within limits, and pits impracticable.
	Land, rolling bench on N. 71 chs.; exposure and drainage to W and NW.: S. 9 chs. is steep S. slope of sandstone break, with rocky soil; soil, on the bench land is a fine, loose red sand, sandy loam and gravel.
	Timber, scattering cedar, with few pinon, on mile.
	Undergrowth, sage, yellow-top, oose and grass.
	Good grazing land.

Resurvey of Subdivision of T.43 S.,R.1 E.

Chains	
	N. 0°28' W., resurveying along W. bdy. of sec. 28.
	Over rolling land, facing to the NW., through scattering cedar and pinon timber.
13.50	Branch draw, 15 ft. deep, course NW.
18.00	Gulch, 25 ft. deep, and 60 ft. below sec. cor., course N.70°W.; gradually asc. SW. slope.
28.00	Top of ascent, 50 ft. above gulch, brs nearly E. and W. Gently desc. on NW. slope.
38.90	Stock trail, brs. E. and W.
39.31	Position for ¼ cor. of sec. 29, on a northing of 40.00 chs. from cor. of secs. 29 and 32; on N. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S29 1917 from which
	A cedar, 6 ins.diam., bears S.28¼°W., 75 lks.dist., marked ¼ S29 BT
	A cedar, 5 ins.diam., bears N.81¾°W., 58 lks.dist., marked ¼ S29 BT
40.34½	Proportionate point.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec. 28 only, with brass cap mkd.
	¼ S28 1917 from which
	A cedar, 10 ins.diam., bears N.74¾°E., 42 lks. dist., marked ¼ S28 BT
	A cedar, 9 ins.diam., bears S.72½° E., 115 lks.dist., marked ¼ S28 BT
50.00	Main ravine, 25 ft. deep, course nearly W.; gradually ascend SW. slope.
68.20	Small wash, at head, course NW. for 6 chs., thence SW., and leave all timber, brs E. and SW.
79.31	At top of ascent.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 20 and 29, with brass cap marked

Resurvey of Subdivision of T.43 S., R.1 E.

Chains	
	T43S S20 S29 R1E 1917
	dig pits, 24x24x12 ins., in each sec.,6 ft. dist.
80.69	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 21 and 28, with brass cap marked
	T43S S21 S28 R1E 1917
	dig pits, 24x24x12 ins., in each sec., 6 ft. dist.
	Land, rolling, having a NW and W. exposure and drainage on S.50 chs., and to SE. on remainder.
	Soil, deep, loose sand, sandy and gravelly loams; gravel subsoil.
	Timber, scattering cedar and pinon on S. 68 chs.
	Undergrowth, short sage, yellow-top, and grass.
	Good grazing land.
	N. 0°23' W., resurveying along W. bdy. of sec. 21.
	Over rolling bench land, slight exposure to W., through short undergrowth.
21.00	N. edge of top bench, begin descent over N. slope, brs E. and W.
35.00	Enter scattering timber, along W. edge, brs. N and SE.
38.62	Position for ¼ cor. of sec. 20, on northing of 40.00 chs. from cor. of sec. 20 and 29.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec. 20 only, with brass cap marked
	¼ S20 1917
	dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.
	No trees within limits in sec. 20.

Chains

40.34 Proportionate point.

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec. 21 only, with brass cap marked

¼
S21
1917 from which

A cedar, 10 ins.diam.,bears N.83½°E.,232 lks.dist., marked ¼ S21 BT
A cedar, 12 ins.diam.,bears S.36½°E., 169 lks.dist., marked ¼ S21 BT

Corner situated on N. slope, 90 ft. below 21 ch. point.

Continue gradual descent.

40.00 Leave timber, brs NE. and S.

70.22 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 17 and 20, with brass cap marked

T43S
S17
S20
R1E
1917

dig pits, 24x24x12 ins., in each sec.,6 ft. dist.

80.69 On gentle NE. slope, 115 ft. below last ¼ cor.

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 16 and 21, with brass cap marked

T43S
S16
S21
R1E
1917

dig pits, 24x24x12 ins., in each sec., 6 ft. dist.

Land, rolling, having a general N. slope on the W. 60 chs. and the E. 21 chs. has a slight exposure to W. and lies on high bench.

Soil, fine sandy and gravelly loams; gravel subsoil.

Undergrowth, short yellow-top, greasewood, moss and grass.

Good grazing land.

S. 0°23' W., resurveying along W. bdy. of sec. 16.

Resurvey of Subdivision of T.43 S., R. 1 E.

Chains	
	Over gently rolling land, facing to the NE., through short undergrowth.
7.10	Ravine, 20 ft. deep, course NE.; few scattering cedars along this ravine.
37.93	Position for ¼ cor. of sec. 17, on northing of 40.00chs. from the cor. of secs. 17 and 20.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec. 17 only, with brass cap marked
	¼ S17 | 1917
	dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.
40.34½	Proportionate point.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec. 16 only, with brass cap marked
	¼ S16 | 1910
	dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.
	Cor. situated on gentle N. slope, 70 ft. below last sec. cor.
43.70	A lone cedar tree, 12 ins. diam., brs. W. of line, 60 lks. dist.
80.69	Intersect the original cor. of secs. 8,9,16 and 17, which I re-establish at same point as follows:
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. secs. 8,9,16 and 17, with brass cap marked
	T43S | R1E S8 | S9 S10 | S16 1917
	dig pits, 18x18x12 ins., in each sec., 5½ ft. dist.
	Land, gently rolling, having a slight NE exposure and drainage.
	Soil, deep, fine sandy and gravelly loams, and some loose

Resurvey of Subdivision of T.43 S.,R.1 E.

Chains	
	sand; gravel subsoil.
	Undergrowth, short greasewood, yellow-top, oose, cactus and grass.
	No timber. Good grazing land.

	N. 89°27' W., resurveying bet. secs. 8 and 17.
	Over gently rolling, open bench land, slight E. slope, through short undergrowth.
16.60	Wash, 10 lks. wide, 3 ft. deep, course NE.
35.00	Top of gentle ascent brs. NE. and SW.; thence over slight NW. slope.
37.30	Position for ¼ cor. of sec. 17; easting of 40.00 chs. from the closing cor. of secs. 17 and 18.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. sec. 17 only, with brass cap marked
	¼ S17 / 1917
	dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.
40.10	Proportional measurement.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec. 8 only, with brass cap marked
	¼ S8 / 1917
	dig pits, 18x18x12 ins., E. and W. of post, 3ft. dist.
80.20	The original cor. of secs. 7,8,17 and 18, which I re-establish for secs. 7 and 8 only, as follows:
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 7 and 8 only, with brass cap marked
	T43S | R1E S7 | S8 1917
	dig pits, 24x24x12 ins., in each sec., 6 ft. dist.
	Land, gently rolling land.
	Soil, fine, deep sandy and gravelly loams.

Resurvey of Subdivision of T.43 S., R. 1 E.

Chains	
	Undergrowth, short, greasewood, yellow-top, oose, cactus and grass.
	No timber. Good grazing land.

	N. 89°30' W., resurveying bet. secs. 7 and 18.
	Over gently rolling, open land, through short undergrowth.
37.10	Position for ¼ sec. cor., of sec. 18; 40.00chs. westing from the closing cor. of secs. 17 and 18.
	Set an ironpost, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec. 18 only, with brass cap marked ¼ S18 / 1917
	dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.
39.00	Stock trail, brs N.80°W. and S.80°E.
39.86½	Proportional measurement.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec. 7 only, with brass cap marked ¼ S7 / 1917
	dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.
78.00	Dry pond or small basin, 2 chs. dia. on line.
79.73	The cor. of secs. 7 and 18 on W. bdy. of tp.
	Land, gently rolling, having a slight NW and W. exposure.
	Soil, fine, loose sandy and gravelly loams; on gravel and slay subsoils.
	Undergrowth, short greasewood, yellow-top, oose and grass.
	No timber. Good grazing land.

	Survey of South Boundary of T.43 S.,R.1 E
	Knowing that a closing cor. will be necessary upon W. bdy. of tp.; from the re-established cor. of secs. 4,5,32 and 33 on S. bdy. of tp., heretofore described.
	West, on true line along S. bdy of tp., bet. secs. 5 & 32.

Survey of South Boundary T.43 S., R.1 E.

Chains	
	Gradually descend over broken SW and W slopes, through medium dense timber of cedar and pinon.
16.00	Timber becomes more scattering, brs NW and SSE
34.15	Wash, 20 lks. wide, 5 ft. deep, in hollow, course N.85°W.
	Continue gradual descent over NW. slope.
40.00	On NW. slope, 110 ft. below sec. cor.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S32 / S5 1917 from which
	A cedar, 10 ins. diam., bears S.12¼°W., 129 lks. dist., marked ¼ S5 BT
	A cedar, 12 ins. diam., bears N.80¼°W., 155 lks. dist., marked ¼ S32 BT
43.20	Small draw, 10 ft. deep, course NW.
43.90	Stock trail, brs NE. and SW.
52.50	Rim of canyon and top of sandstone wall 75 ft. high, brs. NE. and SW.; descend abruptly W. face 150 ft. to
57.00	Wash, 15 lks. wide, 10 ft. deep, in bottom of canyon, Course S.80°W.; thence along N. side, asc. 90 ft. to
65.60	Top of ascent on N side, rocky point from N.; desc. 120ft.
72.80	Bottom of canyon at bend, from S.80°E to S.80°W., continue along ledgy N. side.
80.00	True point for sec. cor., falls on steep ledgy S. slope, impossible to set at this point.
80.31	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in mound of stone, 4 ft. base, on bedrock, for witness cor. of secs. 5,6,31 and 32, with brass cap marked
	T43S | R1E S31 | S32 S6 | S5 WC T44S | R1E 1917 from which
	A cedar, 10 ins. diam., bears N.81°E., 215 lks. dist., marked WC T43S R1E S32 BT
	A cedar, 10 ins. diam., bears S.76°E., 414 lks. dist., marked WC T44S R1E S5 BT
	A cross (X) B.O. bears N.61¼°W., 15 lks. dist., marked on S face of ledge.
	No other trees within limits.

Chains	
	Cor. situated on steep ledgy S slope, 1½ chs N. of canyon bottom.
	Land, rough and broken, lying along main canyon and hollow, drainage to W. into Paria.
	Soil, rocky, sandstone ledges and bedrock, with some loose red sand, and gravel.
	Timber, scattering scrub cedar and pinon.
	Undergrowth, short scattering, brigham-tea, oose, yellow-top, live-oak and grass.
	Fair grazing on portion of mile.

	West, on true line, bet. secs. 6 and 31, counting dist. from true point of sec. cor.
	Desc. along canyon, over rocky, br oken land, through scattering cedar and pinon timber.
.31	W.C.for cor.of secs.5,6,31 and 32.
6.00	Bottom of canyon, 50 ft. below cor., course N.80°W.
18.50	Recross same, course S.70°W.,thence over rolling sandy land; gently asc. 2
38.00	Wash, 15 lks. wide, 5 ft. deep, cours e SW.
40.00	On gentle S. slope, 25 ft. above bottom of canyon.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S31 / S6 1917 from which
	A cedar, 4 ins.diam.,bears S.70°E.,333 lks.dist., marked ¼ S6 BT
	A cedar, 7 ins.diam.,bears N.77°E., 360 lks.dist., marked ¼ S31 BT
50.00	Base of red sandstone break and ledge, brs. NE and SW.
	Asc. abruptly over ledge, 125 ft. to
56.00	Top of same, brs. N.70°E. and SW.; thence over top of bench.
73.00	Edge of top bench and top break, brs. N. and SE.
	Descend abruptly W. face.
79.00	Base of break, brs. N. and SE.; gradually desc. rocky land.
82.68	On SW. slope, 210 ft. below top of break.

Survey of South Boundary of T.43 S.,R.1 E.

Chains	
	Intersect the Salt Lake Meridian projected S. from the cor. of Ts. 43 &.44 S., R.1 W., 8.06 chs. S. of true cor. point, which is 50 lks. N. of the W.C.; cor. described in survey of T.43 S.,R.1 W.
	At point of intersection
	Set an iron post, 3 ft. long, 3 ins. dia., 10 ins. in ground to bedrock, and in mound of stone, 4 ft. base, for closing cor. of Ts. 43 & 44 S., R.1 E., with brass cap marked
	T43S R1E S31 S6 CC T44S 1917 from which
	A cedar, 8 ins.diam.,bears N.45½°E.,335 lkd.dist., marked T43S R1E S31 BT CC A cedar, 4 ins.diam.,bears S.87°E.,9 lks.dist., marked T44S R1E S6 BT CC
	Land, rough and broken, along main canyon on most of mile; near W. end the line crosses S. point of high bench, over sandstone break; drainage into canyon which drains W. about ½ mile into Paria river.
	Soil, rocky, sandstone ledges and bedrock, with loose red sand, and gravel.
	Timber, very scattered cedar and pinon on mile.
	Undergrowth, short sage, brigham-tea, oose and grass.

	Subdivision of T.43 S.,R.1 E
	From the true point for cor. of secs. 5,6,31 and 32 on S. bdy. of tp., which is 31 lks. E. of the W.C.
	North, bet. secs. 31 and 32., on Sectional Guide Mer.
	Asc. abruptly S. slope, out of canyon, over sandstone ledge, 100 ft. to
2.80	Top of ledge and rim of canyon, brs. E. and W.
	Thence over rolling sandy bench land, through scattering cedar and pinon timber; land facing to SW.

Subdivision of T.43 S., R. 1 E.

Chains	
16.85	Deep ravine, 150 ft. deep, course W. to SW., through break of canyon, 2 chs. W. of line.
23.70	Stock trail, brs. E. and W.
36.83	Sand ravine, 20 ft. deep, course SW.
39.00	Base of broken sandstone break, brs. N.70°W and S.70°E.
40.00	On gentle S. slope, on smooth white sandstone bedrock, 225 ft. above sec. cor.
	Cut cross in bedrock, over which Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, 5 ft. base, for ¼ sec. cor., with brass cap marked
	¼ S31 | S32 1917 from which
	A cedar, 5 ins.diam., bears S.26½°E., 134 lks.dist., marked ¼ S32 BT A cedar, 5 ins.diam., bears N.70½°W., 70 lks.dist., marked ¼ S31 BT
47.60	Top of sandstone break and ledges, 150 ft. above ¼ cor., brs. N.70°W and S.70°E., thence over high rolling bench land.
50.00	Begin gradual descent over N. slope, 65 ft. to
79.42	Top of small break, and a rim ledge, 12 ft. high, brs. NE. and SW.; true point for cor. falls on steep N. slope of ledge; therefore at this point.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in mound of stone, 5 ft. base, on bedrock, for the witness cor. of secs. 29,30,31 and 32, with brass cap marked
	T43S | R1E S30 | S29 S31 | S32 WC 1917 from which
	A cedar,limb, 5 ins.diam.,bears N.65½°E.,99 lks. dist., marked T43S R1E S29BT WC A cedar limb, 7 ins.diam.,bears S.40°E., 85 lks. dist., marked T43S R1E S32 BT WC A cedar, 12 ins. diam., bears S.51¼°W., 72 lks. dist., marked T43S R1E S30 BT WC A cedar, 12 ins. diam., bears N.14½°W., 116 lks. dist., marked T43S R1E S30 BT WC
80.00	True point for sec. cor., cut cross (X) on ledge, steep N. slope, impossible to perpetuate cor. at this point.

Subdivision of T.43 S.,R.1 E.

Chains	
	Land, rough and broken, and rolling bench lands; general exposure and drainage to SW. on the S. 50 chs., and to NW. on remainder.
	Soil, rocky, sandstone ledges and bedrock, and loose, fine red sand, and some gravel.
	Timber, scattering cedar and pinon.
	Undergrowth, sage, yellow-top, greasewood and grass.
	Fair grazing land on benches.
	East, on random, from true point, bet. secs. 29 and 32.
40.00	Set temp. ¼ sec. cor.
79.35	Fall 7 lks. S. of the cor. of secs. 29 and 32.
	Thence,
	S. 89°57' W., on true line, bet. secs. 29 and 32.
	Over rolling bench land, having a slight slope to N and NW., through scattering cedar timber.
38.90	Stock trail, brs. NW. and SE.
39.35	Placing fractional dist. in E. ½ mile; in small drain, course N.20°W.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, on bedrock, 5 ft. base, for the ¼ sec. cor., with brass cap marked
	¼ S29 / S32 1917 from which
	A cedar, 30 ins. diam., bears S.16½°E., 80 lks. dist., marked ¼ S32 BT
	A cedar, 7 ins. diam., bears N.2¾°W., 80 lks. dist., marked ¼ S29 BT
78.75	Rim rock and top of small break, brs. NE. and SW.
	Desc. 20 ft. to
79.35	The true point for cor of secs. 29,30,31 and 32.
	Land, rolling bench land, having a slight slope and drainage to NW.
	Soil, loose fine sand, gravelly and scattered bedrock.
	Timber, scattered cedars.
	Undergrowth, sage, greasewood, and grass. Grazing land.

Subdivision of T. 43 S., R. 1 E.

Chains	
	West, on random line, from true point, bet. secs.30 and 31.
40.00	Set temp. ¼ sec. cor.
82.62	Intersect W. bdy. of tp., 2 lks. S. of the cor. of secs. 30 and 31, described in survey of T.43 S.,R.1 W.
	Thence,
	S.89°59'E., on true line, bet. secs. 30 and 31.
	Over rolling bench land, through scattering cedars.
1.00	Begin descent into gulch.
4.65	Bottom of gulch, rocky, 40 ft. deep, course S.; becomes deeper to S. through sandstone break.
5.60	E. edge of gulch, brs. N. and S.; thence gradually asc.
7.20	Stock trail, brs. NW. and SE.
42.62	On gentle W. slope, 125 ft. above sec. cor.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S30 / S31 1917 from which
	A cedar, 16 ins.diam.,bears S.74°W., 435 lks.dist., marked ¼ S31 BT
	dig pits 18x18x12 ins., E. and W. of post, 3ft. dist.
	No trees withim limits in sec. 30.
55.25	Gully, 20 ft. deep, course N.80°W.; enter scattering white sandrock, brs. NW. and SE.
67.30	Base of low broken sandstone breaks and rim rock, brs. NE. for 10 chs.,thence to NW., and SW. for 6 chs., thence to S. and SE.; asc. steeper W. slope.
82.62	230 ft. above ¼ cor.
	The true point for secs. 29,30,31 and 32.
	Land, rolling bench land on W. 67.30 chs. and broken W. face of low sandstone break and remainder; general exposure and drainage to NW and W on most of mile.
	Timber, very scattered cedars on mile.
	Undergrowth, sage, greasewood, yellow-top and grass.
	Soil, mostly fine loose sand and gravel, except on break where soil is mostly sandstone bedrock. Grazing land.

Subdivision of T. 43 S., R. 1 E.

Chains	
	on Sectional Guide Mer.
	North, bet. secs. 29 and 30, from true cor. point.
	Along W. slope of low sandstone break, through scattering cedars; gradually desc. 35 ft. to
9.50	Small draw, near head, 20 ft. deep, course W.
12.00	Leave break and rocks, brs. SE. and W.; thence gentle descent over W. smooth slope.
36.85	Stock trail, brs. NW. and SE.
40.00	On smooth gentle N slope, 100 ft. below sec. cor.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S30 | S29 1917 from which
	A cedar, 18 ins.diam., bears S.46½°E., 617 lks.dist., marked ¼ S29 BT
	A cedar, 10 ins.diam., bears N.46½°W., 250 lks.dist., marked ¼ S30 BT
47.70	S. edge of rocky gulch, brs NW. and SE.
49.50	Branch ravine, 30 ft. deep, course NW. for 2 chs. to main gulch, course W.
54.35	Bottom of main gulch, 40 ft. deep, course W., and base of descent; thence gradually asc. SW. slope.
80.00	On S. slope, 125 ft. above gulch.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 19,20,29 and 30, with brass cap marked
	T43S | R1E S19 | S20 S30 | S29 1917 from which
	A cedar limb, 6 ins.diam., bears S.84°W., 98 lks. dist., marked T43S R1E S30 BT
	and dig pits, 18x18x12 ins., in each sec., 5½ ft. dist.
	No trees within limits in remaining secs.
	Land, rolling bench; exposure to NW on S. 54 chs. and to SW on remainder; drainage to W.
	Soil, deep sandy and gravelly loams, fine loose sand, with some scattered sandstone at S. end & along gulch.

Chains	
	Undergrowth, short yellow-top, sage and grass.
	Timber, very scattered cedars.
	Good grazing land.

	N. 89°57' E., on random line, bet. secs. 20 and 29.
40.00	Set temp. ¼ sec. cor.
78.70	Fall 5 lks. N. of the cor. of secs. 20 and 29.
	Thence,
	S. 89°59' W., on true line, bet. secs. 20 and 29.
	Over rolling, open sandy bench, slight general SW face.
	Gently desc. 35 ft. to
32.00	Base of gentle descent, brs. N. and S.; asc. 20 ft. to
38.00	Top of ascent, brs. N. and S.; continue over gently rolling bench, SW. exposure.
38.70	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼. S20 / S29 1917 from which
	A lone cedar, 12 ins.diam., bears S.23½°W., 119 lks. dist., marked ¼ S29 BT
78.70	The cor. of secs. 19,20,29 and 30.
	Land, rolling bench, slight exposure and drainage to SW.
	Soil, deep fine sandy and gravelly loams; hard packed gravel subsoil.

	Undergrowth, short yellow-top, sage, oose and grass.
	Timber, only a few scattered cedars.
	Good grazing land.

	N. 89°59' W., on random line, bet. secs. 19 and 30.
40.00	Set temp. ¼ sec. cor.
82.64	Intersect W. bdy. of tp., 2 lks. S. of the cor. of secs. 19 and 30, described in survey of T.43 S.,R.1 W.
	Thence,
	S. 89°58' E., on true line, bet. secs. 19 and 30.

Subdivision of T.43 S.,R.1 E.

Chains	
	Over rolling and broken land, through few scattered cedars.
	Gradually asc. towards sandstone rim or break.
12.00	Gulch, 20 ft. deep, heads SE. about 10 chs. through break, course N.70°W., at base of red sandstone break, brs. about N. and S.; asc. abruptly W. face 80 ft. to
17.00	Top of break and rim ledge, 40 ft. high; and 115 ft. above sec. cor., brs. N. and S.; thence gradually asc. over rolling bench.
28.25	Stock trail, brs. NW. and SE.
42.64	On gentle W. slope, 60 ft. above top of break.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S19 / S30 1917
	dig pits 18x18x12 ins., E. and W., 3 ft. dist. of post.
	No trees within limits.
82.64	40 ft. above ¼ cor. The cor. of secs. 19, 20, 29, and 30.
	W. 12 chs. rolling land, lying under low broken sandstone break; neaxt 5 chs. break, and remainder is rolling bench; exposure and drainage to W. on mile.
	Soil, deep loose sand, sandy loam, and sandstone ledges.
	Undergrowth, short yellow-top, greasewood, sage and grass.
	Timber, few scattered cedars. Good grazing land.

	North, bet. secs. 19 and 20, on Sectional Guide Mer.
	Over rolling bench land, through few scattered cedars.
6.70	Top of flat ridge, 15 ft. above cor., brs. E. and W.
37.00	Leave top of bench; enter broken land, brs. E. and W.
	Desc. N. slope.
40.00	On N. slope, 50 ft. below ridge at 6.70 chs.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S19 | S20 1917 from which

Chains	
	A cedar limb, 8 ins.diam.,bears N.39°E.,294 lks. dist.,marked ¼ S20 BT
	A cedar limb, 6 ins.diam.,bears N.50¼°W.,273 lks. dist.,marked ¼ S19 BT
	Continue descent over broken land, facing N. and NW.
66.10	Gully and main drain, 115 ft. below ¼ cor., course NW.
	Asc. 30 ft.
74.30	Top of ascent on W. slope of hill, brs. E. and W.; desc.
80.00	On N. slope, 25 ft. below top of ascent.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 17,18,19 and 20, with brass cap marked
	T43S | R1E S18 | S17 S19 | S20 1917
	from which
	A cedar,limb, 6 ins.diam.,bears N.60½°E.,106 lks. dist., marked T43S R1E S17 BT
	A cedar, 20 ins.diam., bears S.36° E., 118 lks. dist., marked T43S R1E S20 BT
	A cedar, 8 ins.diam.,bears S.10½°W., 207 lks. dist., marked T43S R1E S19 BT
	A cedar limb,10 ins.diam.,bears N.1½°W.,107 lks.dist., marked T43S R1E S18 BT
	S. 73 chs. rolling top of bench; remainder low rough and broken land; exposure and drainage to N & NW on N. 73 chs. and to S. on remainder.
	Soil, deep fine sandy loam, red clay and rocky.
	Undergrowth, short greasewood, brigham-tea, oose, sage and grass.
	Timber, scattered cedars. Fair grazing land.

	N. 89°59' E., on random line, bet. sec. 17 and 20.
40.00	Set temp. ¼ sec. cor.
78.01	Fall 2 lks. S. of the cor. of secs. 17 and 20.
	Thence,
	S. 89°58' W., on true line, bet. secs. 17 and 20.
	Over rolling land, slight slope to NE., through short undergrowth.
10.90	Small ravine, course N. to NE.

Subdivision of T.43 S.,R.1 E.

Chains	
28.00	Top of slight ascent, forms the flat watershed bet. the Paria river and Wahweap creek, brs. about N. and S.
	Enter more broken land, gentle slope to NW., and enter scattering cedar timber, brs NW. and S.
38.01	In small drain, course NW. to N.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S17 / S20 1917 from which
	A cedar, 16 ins.diam.,bears N.85°E.,73 lks.dist., marked ¼ S17 BT
	A cedar, 14 ins.diam.,bears S.63½°E.,79 lks.dist., marked ¼ S20 BT
40.05	Head of small wash, course N.
78.01	The cor. of secs. 17,18,19 and 20.
	Land, rolling and low broken; exposure to NE. on E. 28 chs. and to NW. on ramainder.
	Soil, deep, fine loose sandy and gravelly loams, some clay and scattered sandstone bedrock.
	Timber, scattering cedars on W. 55 chs.
	Undergrowth, short sage, greasewood, shadscale and grass.
	Fair grazing land.

	N. 89°58' W., on random line, bet. secs. 18 and 19.
40.00	Set temp. ¼ sec. cor.
82.64	Intersect W. bdy. of tp., 5 lks. N. of the cor. of secs. 18 and 19, described in survey of T.43 S.,R.1 E.
	Thence,
	East, on true line, bet. secs. 18 and 19.
	Over broken land, facing to the W. and NW., through scattering cedar timber.
1.50	Ravine, 10 ft. deep, course NW.
5.80	Ravine, 5 ft. deep, course NW.
21.50	Ravine, 5 ft. deep, course NW.
31.90	Ravine, 10 ft. deep, course NW.

Subdivision of T.43 S., R.1 E.

Chains	
42.64	At head of small wash; course NW; on N. slope.
	Set an iron post, 3 ft. long, 1in. dia., 26 ins. in mound of stone; 5 ft. base, on bedrock, for the ¼ sec. cor., with brass cap marked
	¼ S18 / S19 1917 from which
	A cedar limb, 6 ins. diam., bears S.66°E., 159 lks. dist., marked ¼ S19 BT
	A cedar, 6 ins. diam., bears N.30½° E., 96 lks. dist., marked ¼ S18 BT
53.70	Gulch, 35 ft. deep, course NW.
66.00	Gulch, 30 ft. deep, course NW.
82.64	200 ft. above sec. cor. on W. bdy.
	The cor. of secs. 17, 18, 19 and 20.
	Land, low broken, clay and red sandstone rim-rock land, sloping to NW. and W.
	Soil, red clay, red sandstone rim rock, and loose sand.
	Timber, scattering cedars on mile.
	Undergrowth, short shadscale, greasewood and sage.
	Fair grazing.

	Knowing that a closing cor. will be necessary against the S. bdy. of sec. 8;
	North, on true line, bet. secs. 17 and 18, on Sectional Guide Me
	Over low broken and rolling land, facing NW., through scattering cedars.
30.00	Leave broken land, and all timber, brs. W. and SE., thence over gently rolling, open land.
31.80	Stock trail, brs. NW. and SE.
40.00	80 ft. below sec. cor.
	Set an iron post, 3 ft. long, 1 in dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S18 | S17 1917
	dig pits, 18x18x12 ins., N. and S. of post, 3ft. dist.

Subdivisions of T.43 S., R.1 E.

Chains

55.70 Wash, 25 lks. wide, 6 ft. deep, course W.

79.10 Stock trail, brs. N.80°W. and S.80°E.

83.56 Intersect S. bdy. of sec. 8, S.89°27'E., 2.90 chs. dist. from the re-established cor. of secs. 7 and 8.

At point of intersection

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for closing cor. of secs. 17 and 18, with brass cap marked

S8
c | c
S18 | S17
T43S | R1E
1917

dig pits, 24x18x12 ins. across E. W., and S. lines, 3 ft. dist. of post.

Land, gently rolling open bench land on N. 53½ chs., and low broken on S. 30 chs.; exposure and drainage to NW on mile.

Soil, loose fine sandy loam, gravelly, with some clay and red sandstone rocks in southern portion.

Undergrowth, short greasewood, yellow-top, oose, cactus and grass. Good grazing land.

Timber, scattering cedars on S. 30 chs.

Latitudes, departures and closing errors of fractional T.43 S., R.1 E.

Lines designated	True bearings	Distances	Latitudes N	Latitudes S	Departures E	Departures W
E.bdrs secs 17-20-29-32	N.0°28'W	322.76	322.76			2.64
S bdy sec 8	N.89°27'W	80.20	.77			80.20
S bdy sec 7	N.89°30'W	79.73	.69			79.73
W bdy of tp	South	324.31		324.31		
S bdy secs 31-32	East	162.68			162.68	
Convergency						.12
			324.22	324.31	162.68	162.69
				324.22		
Error in lat.				0.09		
Error in dept.						162.68
						0.01

General Drscription of T. 43 S.,R. 1 E.

This fractional township as surveyed by me, lies to the east of the Paria river, and contains principally rolling and broken bench lands, on what is locally known as"East Clark Bench"; has a general west exposure and drainage into Paria river. The soil is mainly a loose,fine,red sand and sandy & gravelly loams; on gravel subsoil, on the bench lands; while along the breaks and broken land, sandstone bedrock and clayish soil prevails.

The greater portion of the tp. is covered with a scattering growth of cedar, with few pinon pine, and undergrowth of short greasewood, yellow-top, sage, oose and bunch grass. Affords good grazing.

There is no water in the tp. No settlers and no indications of mineral.

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FIELD ASSISTANTS.

NAMES.	CAPACITY.
Frank Romney	Head - Chainman
James Hill	Rear - Chainman
Wayne Clark	" "
Harold Evans	Cornerman
James Stewart	Flagman
The above assistants	were employed in the execution
of surveys in	T.43 S., R. 1 E

CERTIFICATE OF UNITED STATES ~~SURVEYOR~~ TRANSITMEN.

We, Andrew Nelson and Elliot Bird Transitmen, U. S. ~~Surveyor~~, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the 1st day of February, 1916, We have well, faithfully, and truly in our own proper persons 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 East and South Boundaries and subdivision: survey of part of south boundary, and subdivision of

T.43 S., R. 1 E.

of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes and date diagram on page 1 as having been executed by us, and under our direction, on dates as shown on said d and 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.

Andrew Nelson
Elliot Bird
U. S. ~~Surveyor~~ Transitm

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Oct. 30, 1918.

The foregoing field notes of the ~~survey of~~ retracement and resurvey of the east boundary, portion of south boundary and portion of the subdivision; and survey of portion of the south boundary and portion of the subdivision of Township No. 43 South, Range No. 1 East of the Salt Lake Base and Meridian, Utah,

executed by Andrew Nelson and Elliot Bird

under ~~his~~ special instructions dated February 1, 1916, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the ~~surveys~~ retracements, resurveys and 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.

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U. S. Surveyor General's O.
MAR 28 1918
SALT LAKE CITY, UTA

BOOK A-437

H.

FIELD NOTES

OF THE ~~SURVEY OF THE~~

Retracement of the Utah - Arizona State Boundary along the South boundary of T.44 S., R.1 E.

Survey of East Boundary and

Subdivision of

T. 44 S., R. 1 E.

Of the Salt Lake Base and *Meridian,*

In the State of Utah

EXECUTED BY

ELLIOT BIRD, U.S. Transitman

In the capacity of U. S. Surveyor, under instructions dated Feb. 1, *1916, issued by the United States Surveyor General to govern surveys included in Group No.* 50, *which were approved by the Commissioner of the General Land Office,* March 25, *1916, pursuant to authority contained in the Act of Congress dated* *191*

Supplemental assignment instructions dated Sept. 5, 1917.

Survey commenced October 3, *1917.*

Survey completed October 12, *1917*

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Examination Checked

A Plat E.B.B. Notes E.B.B.

B Computations E.B.B.

C Comparing Plat V.I.F. Notes E.B.B.

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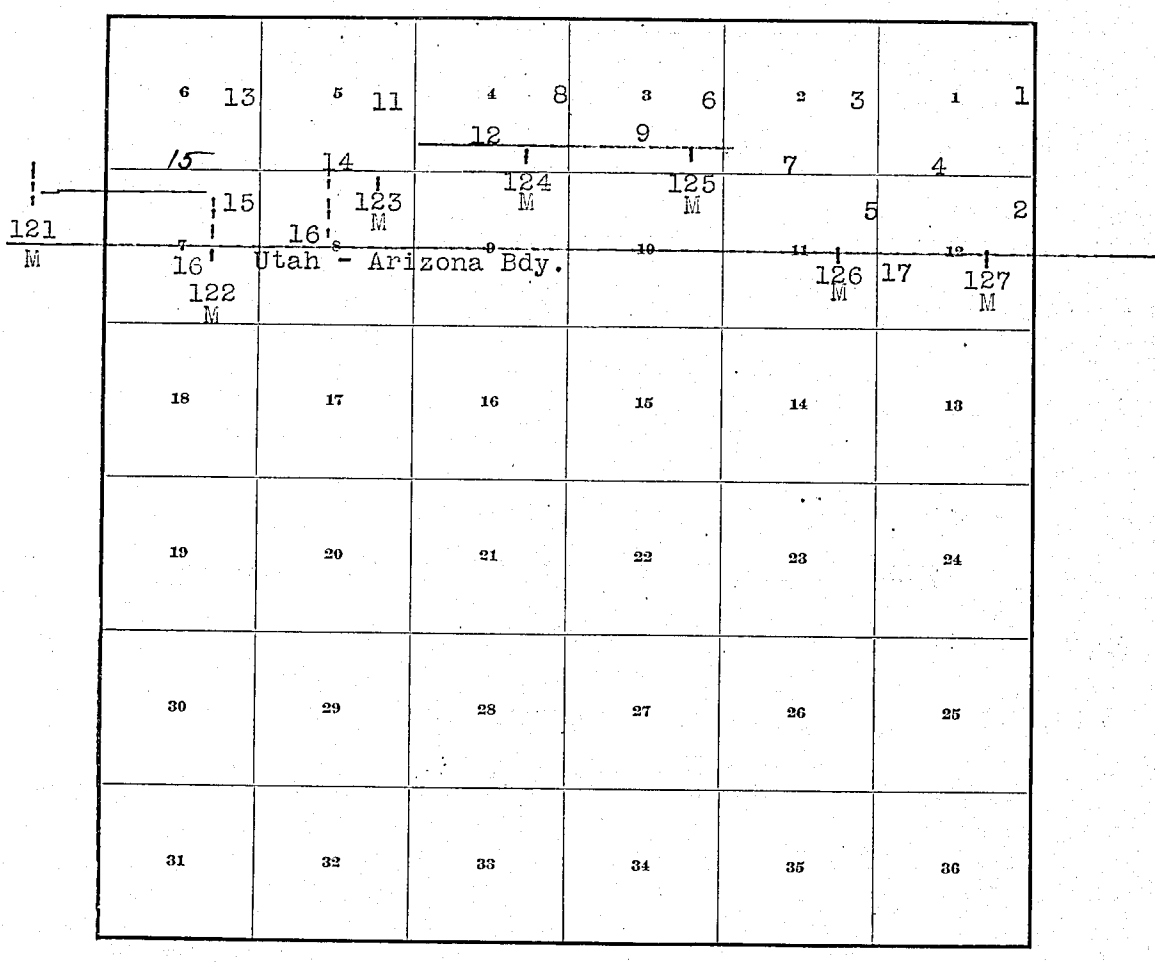
INDEX DIAGRAM.

Township 44 South, *Range* 1 East



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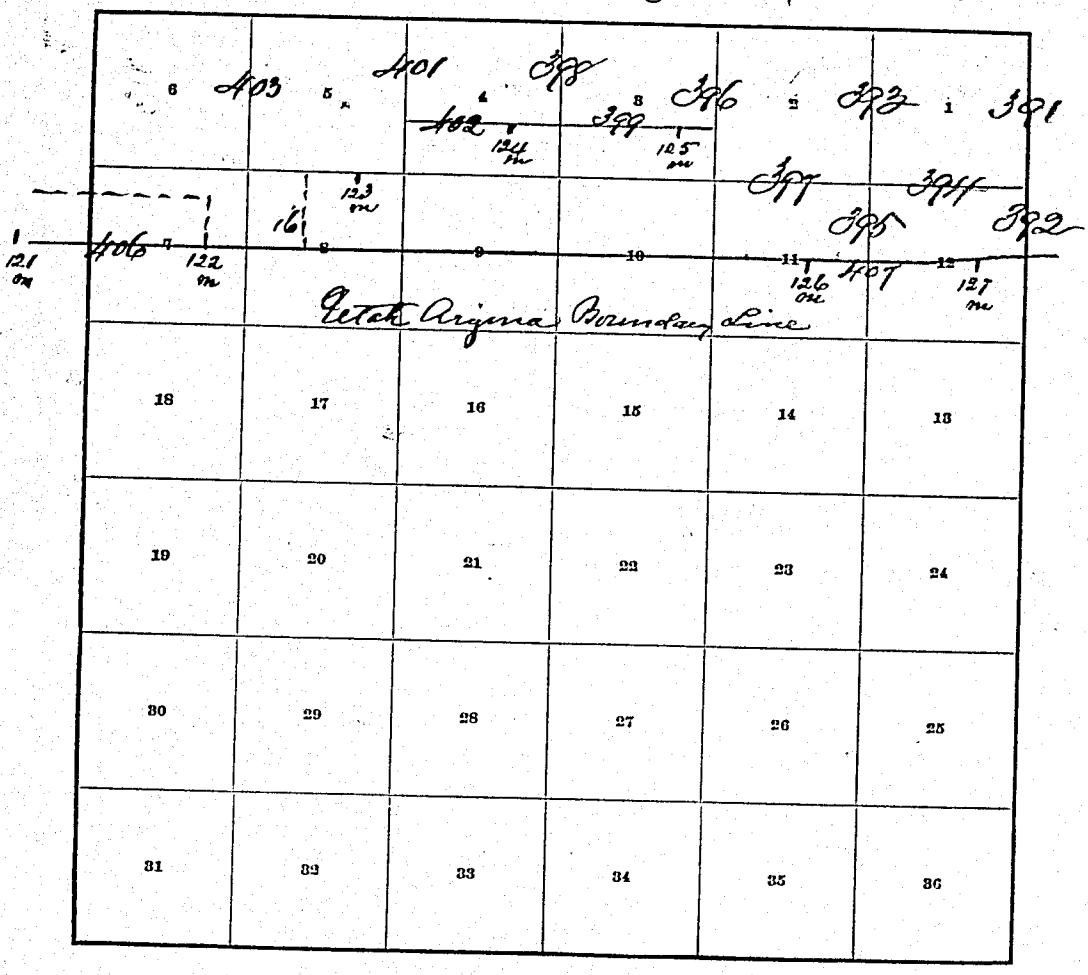
INDEX DIAGRAM.

Township 44 S, Range 1 E

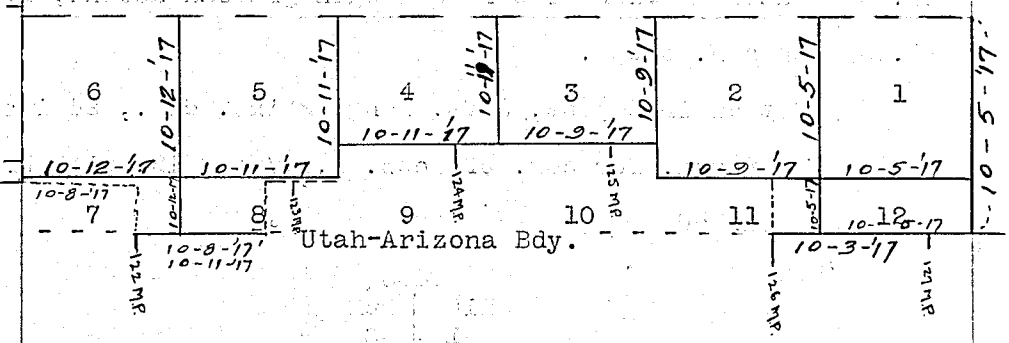


6—1917

East Boundary of T. 44 S., R. 1 E.

Chains

Date Diagram of T. 44 S., R. 1 E.



East Boundary of T. 44 S., R. 1 E.

Survey commenced October 3, 1917 and executed with a Young & Sons light mountain transit, No. 8487, equipped with Smiths' solor attachment, for full description, test and approval of instrument see survey of T.43 S., R. 1.W.

All measurments made with steel tapes and clinometers.

From the cor. of Ts. 43 & 44 S., Rs. 1 & 2 E., recently established under this group and described in the survey of T.43 S., R.1 E.

Thence,

South, bet. secs. 1 and 6, bet. ranges 1 & 2 E.

Over rolling bench land, with W exposure, through scattering cedar and pinon timber, short undergrowth.

28.00 Timber becomes very scattered, brs. NE. and SW.

40.00 On nearly level ground, 50 ft. above tp. cor.

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

¼

S1 | S6

1917 from which

East Boundary of T. 44 S., R. 1 E.

Chains

A cedar, 8 ins. diam., bears N.69°W., 512 lks. dist., marked ¼ S1 BT

dig pits 18x18x12 ins., N and S of post, 3 ft. dist.

No other trees within limits.

50.00 Enter heavier timber and begin gradual ascent, brs E & W.

80.00 On a N. slope.

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 1,6,7 and 12, with brass cap marked

T44S
R1E | R2E
S1 | S6
S12 | S7
1917

from which

A cedar, 10 ins. diam., bears N.24°E., 228 lks. dist., mkd. T44S R2E S6 BT
A cedar, 10 ins. diam., bears S.84½°W., 224 lks. dist., mkd. T44S R1E S12 BT
A cedar, 6 ins. diam., bears N.42°W., 233 lks. dist., mkd. T44S R1E S1 BT

No trees within limits in sec 7 and pits impracticable, deep, loose sand.

Land, rolling bench land, exposure to W. and NW.

Soil, deep, loose, fine, red sand, with some gravel.

Timber, scattering scrub cedar and pinon.

Undergrowth, short scattering sage, yellow-top, oose, brigham-tea and bunch-grass.

Fair grazing land.

South, bet. secs. 7 and 12.

Over rolling land, gradually asc., through scattering cedar and pinon timber.

17.20 Stock trail, brs. NE. and SW.

19.00 Wash, 10 lks. wide, 2 ft. deep, course N.70°W.

22.05 Intersect the Utah - Arizona State boundary, N.89°49'E., 24.95 chs. dist. of the 127th mile cor., heretofore described in the survey of T.44 S., R. 2 E.

At point of intersection,

Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in

Chains	
	ground, for closing cor. of T. 44 S., Rs. 1 & 2 E., with brass cap marked
	U C C T 44 S R1E | R2E S12 | S7 A 1917 from which
	A cedar, 10 ins. diam., bears N. 73¾° E., 325 lks. dist., mkd. U CC T44S R2E S7 BT
	No other trees within limits in sec 12, and pits impracticable, loose sand.
	Land, rolling, exposure and drainage to NW and W.
	Soil, deep, loose fine sand, with some gravel.
	Timber, scattering cedar and pinon.
	Undergrowth, sage, ooze, yelloy-top and grass.
	Grazing land.

	Subdivision of T. 44 S., R. 1 E.
	From the cor. of secs. 1, 2, 35 and 36 on N. bdy. of tp., recently established and described in the survey of T. 43 S., R. 1 E.
	Thence,
	S. 0° 01' E., bet. secs. 1 and 2.
	Over bench land, through few scattering cedars.
4.00	Rim and top of sandstone ledges, brs NE. and SW.; desc. abruptly S. face, 150 ft.
10.00	Base of same, brs NE. and S. 60° W.; continue over rolling sandy bench land, gradually descend.
24.50	Wash. 10 lks. wide, 3 ft. deep, course SW.
40.00	On N. edge of main wash, and 225 ft. below sec. cor. Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S2 | S1 1917 from which

Subdivision of T. 44 S., R. 1 E.

Chains

A cedar, 8 ins. diam., bears S.76½°E., 418 lks. dist., mkd. ¼ S1 BT

dig pits, 18x18x12 ins., N and S of post, 3 ft. dist.,

No trees within limits in sec 2.

40.50 Main wash, 40 lks. wide, 3 ft. deep, in Judd hollow, course S.60°W.; gradually ascend.

58.40 Wash, 30 lks. wide, 6 ft. deep, course NW.

77.00 Foot of rim and broken ledge, brs NE. and SW.; asc. abruptly 85 ft. to

80.00 On top of ascent and rim, projects SW.

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in mound of stone, on bedrock, 5 ft. base, for cor. of secs. 1,2,11 and 12, with brass cap marked

T44S	R1E
S2	S1
S11	S12

1917 from which

A pinon, 10 ins. diam., bears N.10½°E., 50 lks. dist., mkd. T44S R1E S1 BT
A pinon, 8 ins. diam., bears S.49¾°E., 131 lks. dist., mkd. T44S R1E S12 BT
A pinon, 6 ins. diam., bears N.64°W., 65 lks. dist., mkd. T44S R1E S2 BT
A pinon, 12 ins. diam., bears S.88½°W., 76 lks. dist., mkd. T44S R1E S11 BT

Land, rolling, with breaks, draining S. on the N ½ mile, and to W. on the remainder, into Judd hollow.

Soil, deep, loose, fine sandy; and ledges and bedrock along the breaks.

Timber, scattering cedar and pinon on mile.

Undergrowth, short sage, yellow-top, oose, greasewood and grass. Grazing land.

East, on random line, bet. secs. 1 and 12.

40.00 Set temp. ¼ sec. cor.

80.08 Intersect the E. bdy. of tp., at the cor. of secs. 1,6,7 and 12.

Thence,

Subdivision of T. 44 S., R. 1 E.

Chains	
	West, on true line, bet. secs. 1 and 12.
	Over rolling bench land, gradually descending, through scattering cedar and pinon timber.
25.30	Wash, 5 lks. wide, 1 ft. deep, course N.
40.04	On top of small sand ridge, brs. NE and SW.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S1 / S12
	1917 from which
	A cedar, 10 ins. diam., bears S.52¾°W., 85 lks. dist., mkd. ¼ S12 BT
	A cedar, 8 ins diam., bears N.79¼°W., 82 lks. dist., mkd. ¼ S1 BT
75.00	Top of break, brs. NE. and SE.; desc. abruptly 55 ft. to
80.08	The cor. of secs. 1,2,11 and 12.
	Land, rolling and slightly broken bench land, facing W.
	Soil, loose, fine red sand and gravel, with some scattering sandstone bedrock.
	Timber, scattering cedar and pinon.
	Undergrowth, short sage, greasewood, oose and grass.
	Good grazing land.

	S. 0° 01' E., on true line, bet. secs. 11 and 12.
	Descend abruptly over break and ledges.
2.00	Base of same, 90 ft. below top, brs. SE. and W.; thence over broken bench land, sloping W., through scattering cedar and pinon timber.
22.27	Intersect the Utah - Arizona State boundary, N.89°48'E., 24.48 chs. dist. of the 126th mile cor., hereinafter described.
	At point of intersection,
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for closing cor. of secs. 11 and 12, with brass cap marked

Subdivision of T. 44 S., R. 1 E.

Chains

U
C | C
T44S | R1E
S11 | S12
A
1917 from which

A cedar, 10 ins.diam.,bears N.65½°E., 115 lks.dist., mkd. U CC T44S R1E S12 BT
A cedar, 12 ins.diam.,bears N.25½°W., 92 lks.dist., mkd. U CC T44S R1E S11 BT

Land, rolling and slightly broken, general W. face.

Soil, deep, loose fine sandy, with scattered sandrocks.

Timber, scattering cedar and pinon

Undergrowth, sage, greasewood, yellow-top, oose and grass.

Grazing land.

From the cor. of secs. 2,3,34 and 35 on N. bdy of tp., described in the survey of T.43 S., R.1 E.

Thence,

S. 0° 01' E., bet. secs. 2 and 3.

Over rolling bench land, through scattering cedar & pinon.

40.00 On a gentle E. slope.

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

¼
S3 | S2
1917 from which

A cedar,12 ins.diam.,bears N.56½°E., 78 lks. dist., mkd. ¼ S2 BT
A cedar, 10 ins.diam.,bears N.53°W.,78 lks. dist., mkd. ¼ S3 BT

43.00 Top of break and sandstone ledge, brs. nearly W & NE.

Descend abruptly.

51.00 Deep chasm,200 ft. deep, near head, course SE.

54.50 Top S. edge;thence along E. face of break;gently desc.

60.00 True point for sec. cor., falls on steep ledgy slope, impossible to set cor.; therefore at a point 3.70 chs. east, at foot of ledge, 85 ft. below true point.

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for witness cor. of secs. 2,3,10 and 11,

Chains	
	with brass cap marked
	T44S | R1E S3 | S2 WC S10 | S11 from which 1917
	A cedar, 7 ins.diam.,bears N.76¼°E., 120 lks. dist., mkd. T44S R1E S2 BT WC
	A cedar, 8 ins.diam.,bears S.61¼°E., 90 lks. dist., mkd. T44S R1E S11 WC BT
	A cedar, 6 ins.diam.,bears S.17°W., 81 lks.dist., mkd. T44S R1E S10 BT
	No trees within limits in sec. 3, and no loose rock available for mound of stone, and pits impracticable.
	N. 43 chs. top of rolling bench, with slight exposure to S.; soil, sandy and fine gravel: remainder of mile, breaks and rough broken, with sandstone bedrock and ledges, some loose sand; drainage to SE.
	Timber scattering cedar and pinon on mile.
	Undergrowth, short sage, brigham-tea and bunch-grass.

	East, on random line, bet. secs. 2 and 11, from the witness cor. which is 3.70chs. E. of true point for secs. 2,3,10 and 11, and counting dist. from true point.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect the cor. of secs. 1,2,11 and 12
	Thence,
	West, on true line, bet. secs. 2 and 11.
	Desc. abruptly W. face of break, 110 ft. to
2.00	Base of red sandstone break, brs. NE. and SE..
	Thence over broken bench land, gradually descending, through scattering cedar and pinon timber.
40.00	On NW. slope, 85 ft. below base of break.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S2 S11 1917 from which
	A cedar, 8 ins.diam.,bears N.15¼°E., 71 lks. dist., mkd. ¼ S2 BT
	A cedar,10 ins.diam.,bears S.76¾°E., 117 lks.dist., mkd.¼ S11 BT

Subdivision of T. 44 S., R. 1 E.

Chains	
	Descend 15 ft. to
42.10	Main wash, 60 lks. wide, 8 ft. deep, in Judd hollow, course SW.; thence gradually asc., 140 ft. to
76.30	The witness cor. of secs. 2,3,10 and 11.
	Land, broken and rolling bench lands; E 42 chs. draining SW. and remainder SE. into Judd hollow, which drains S into Paria river.
	Soil, loose, fine red sand, with some sandstone bedrock.
	Timber, scattering cedar and pinon.
	Undergrowth, sage, brigham-tea, oose and grass.
	Grazing land

	Line bet. secs. 10 and 11 not surveyed because of impassable ledges and breaks.

	From the cor. of secs. 3,4,33 and 34 on N. bdy. of tp., described in the survey of T.43 S.,R. 1 E.
	Thence,
	S. 0°02' E., bet. secs. 3 and 4.
	Ascend broken N. slope, through scattering cedar and pinon timber.
8.90	Top of ascent, 75 ft. above cor., brs, NE. an d SW., thence gradually descend over broken bench land.
40.00	90 ft. below top of ascent.
	Set an iron post, 3 ft. long, 1 in.dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	S4 ¼ S3
	1917 from which
	A cedar,6 ins.diam.,bears N.54°E., 72 lks. dist., mkd. ¼ S3 BT
	A cedar,8 ins.diam.,bears N.46¾°W.,131 lks.dist., mkd. ¼ S4 BT
	Thence over low broken sandstone ledges, general S. slope.
59.83	Intersect the offset Utah - Arizona state boundary,

Subdivision of T. 44 S., R. 1 E.

Chains	
	east, 25.15 chs. dist. of the witness 124th mile cor., and on a line connecting the 124th and 125th mile cors.
	At point of intersection
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in mound of stone, 5 ft. base, on bedrock, for the witness cor. of secs. 3,4,9 and 10, with brass cap marked

T44S	R1E
S4	S3
S9	S10

WC
1917 from which

A cedar, 6 ins.diam.,bears N.70°E., 56 lks.dist., mkd. WC T44S R1E S3 BT
A cedar, 8 ins.diam.,bears S.58½°E.,100 lks.dist., mkd. WC T44S R1E S10 BT
A cedar, 7 ins.diam.,bears S74¼°W., 99 lks.dist., mkd. WC T44S R1E S9 BT
A cedar, 8 ins.diam.,bears N60½°W., 230 lks.dist., mkd. WC T44S R1E S4 BT

Land, rolling and broken, with low broken red sandstone ledges on southern portion; exposure to S., except on N. 9 chs.

Soil, loose sandy, with sandstone bedrock and ledges.

Timber, scattering cedar and pinon on mile.

Undergrowth, scattering short sage, brigham-tea, oose and grass.

Note: It was impracticable to survey the line, South from this witness cor. on account of high sandstone wall and ledges.

	East, from the witness cor. of secs. 3,4,9 and 10, on offset line, bet. secs. 3 and 10,
40.00	Set temp ¼ sec. cor.
62.30	Intersect the witness 125th mile cor. on Utah-Arizona offset bdy., which is 42.18chs N., and 6.57 chs. E. of its true position; cor. is an iron post, 2 ins. dia., extending 2 ft. above ground, firmly set, mkd. and witnessed as described by the surveyor general.
	Continue, East.

Subdivision of T. 44 S., R. 1 E.

Chains	
80.10	Intersect W. bdy. of sec. 2, at a point N.0°02'W., 20.14 chs. dist. of true point for cor secs. 2,3,10 and 11. Thence from point of intersection with W. bdy. of sec. 2. West, on offset line, bet. secs. 3 and 10. (impracticable to run W. from true point for secs. 2,3,10 and 11) Asc. 25 ft. over rocky E. slope of break.
5.00	Top of break and ledges, brs nearly N and S.; thence over rolling and broken, sandy bench land, through scattering cedar and pinon timber.
17.80	The witness 125th mile cor., and top of sandstone ledge and break, brs. N. and S.; descend abruptly W. face.
23.50	Foot of ledge, 260 ft. below top, brs N. and S.; thence more gradual descent.
30.00	Wash, 70 lks. wide, in bottom of deep hollow, course SW. Ascend, 35 ft. to
40.05	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground for witness ¼ sec cor., with brass cap marked ¼ S3/S10 WC 1917 from which A cedar, 8 ins.diam.,bears S.34°E., 266 lks.dist., mkd. WC ¼ S10 BT dig pits 18x18x12 ins., E and W. of post, 3 ft. dist., No other trees within limits.
74.50	Foot of sandstone ledge and break, brs. NE. and S.; thence abrupt ascent over E face, 170 ft. to
80.10	on top of break and ledge, 300 ft. above ¼ cor. The witness cor. of secs. 3,4,9 and 10. Land, rolling and broken, crossed sandstone breaks, which are difficult to chain; drainage to S. and SW. Soil, loose, fine red sandy, sandstone bedrock and ledges. Timber, scattering cedar and pinon. Undergrowth, scattering sage, brigham-tea, oose and grass.

Subdivision of T. 44 S., R. 1 E.

Chains	
	From the cor. of secs. 4,5,32 and 33 on N. bdy. of tp., described in the survey of T.43 S.,R.1 E.
	Thence,
	S. 0°03' E., bet. secs. 4 and 5.
	Over broken land, facing SW., through scattering cedar and pinon timber.
1.00	Wash, 20 lks. wide, 2 ft. deep, course SW.
13.50	Draw, 20 ft. deep, course N.70°W.; asc.
31.70	Small draw, 10 ft. deep, course NW.; begin steeper ascent over N. slope of broken sandstone rim, brs. about NE & NW.
40.00	On N. slope, 125 ft. above sec cor.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S5 | S4 1917 from which
	A cedar, 6 ins.diam.,bears S.36¼°E., 124 lks.dist., mkd. ¼ S4 BT
	A cedar, 8 ins.diam., bears S.20½°W., 149 lks.dist., mkd. ¼ S5 BT
45.00	Top of ascent, 70 ft. above ¼ cor., brs. N.30°E. & S.30°W.
	Thence gradually descend over top of mesa or bench land.
59.80	A point from which the witness 124th mile cor. on offset Utah-Arizona bdy. bears East.
80.00	On general S. slope, 80 ft. below top of ascent at 45 chs.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 4,5,8 and 9, with brass cap marked
	T44S | R1E S5 | S4 S8 | S9 1917 from which
	A cedar,10 ins.diam.,bears N.13½°E., 94 lks.dist., mkd. T44S R1E S4 BT
	A cedar,11 ins.diam.,bears S.75°E., 87 lks.dist., mkd. T44S R1E S9 BT
	A cedar,12 ins.diam.,bears S.34½°W.,133 lks.dist., mkd. T44S R1E S8 BT
	A cedar,10 ins.diam.,bears N.65°W.,148 lks.dist., mkd. T44S R1E S5 BT

Subdivision of T. 44 S., R. 1 E.

Chains	
	N. 45 chs. broken land, facing and draining to W and NW.; remainder of mile is rolling top of high mesa, drainage to S.
	Soil, deep, loose fine red sandy, with sandstone bedrock and small ledges.
	Timber, scattering cedar and pinon on mile.
	Undergrowth, brigham-tea, oose, sage, grass and some scattering short live-oak brush.
	ooo----------
	Impracticable to run south or east from the cor. of secs. 4,5,8 and 9, on account of high sandstone wall.

	From a point 20.20 chs. N.0°03'W. of cor. secs. 4,5,8 and 9; thence
	East, on offset line, bet. secs. 4 and 9.
40.00	Set temp. ¼ sec. cor.
54.72	Intersect the witness 124th mile cor. on offset Utah-Arizona bdy., which is 42.41 chs. N. of its true postion; cor. is an iron post, 2 ins. dia., extending 2 ft. above ground, firmly set, marked and witnessed as described by the surveyor general.
	Continue East.
79.87	Intersect the witness cor. of secs. 3,4,9 and 10.
	Thence,
	West, on offset line, bet. secs. 4 and 9.
	Over broken, ledgy land, sloping or breaking off to the S.
23.00	Bottom of gulch, course S.
25.15	The witness 124th mile cor.
39.93½	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for the witness ¼ sec. cor. with brass cap marked
	¼ S4 / S9 1917 WC from which

Chains	
	A cedar, 8 ins.diam., bears N.32½°W., 410 lk.sdist., mkd. WC ¼ S4 BT
	A cedar. 8 ins.diam., bears S.28½°E., 160 lk.sdist., mkd. WC ¼ S9 BT
62.00	Gulch, course S.
79.87	Intersect line bet. secs. 4 and 5, N.0°03'W., 20.20 chs. dist. of the cor. secs. 4,5,8 and 9
	Land, broken, with ledges, drainage to S.
	Soil, loose sandy, sandstone ledges and bedrock.
	Timber, very scattered cedar and pinon
	Undergrowth, short, sage, brigham-tea, oose and grass.

	From the true cor. point for secs. 5,6,31 and 32, which is 31 lks. E. of the witness cor., on N. bdy. of tp., described in the survey of T.43 S.,R.1 E.
	Thence,
	S. 0°03' E., bet. secs. 5 and 6.
	Descend abruptly 35 ft. over ledge to
1.40	Bottom of canyonm course nearly W.; thence abrupt ascent S. side of canyon, over ledges, through scattering timber.
11.40	Top of ascent and rim of canyon, 260 ft. above bottom, brs. E. and W.; thence over rolling, sandy high mesa land.
40.00	Set an iron post, 3 ft. long, 1in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S6 | S5 1917
	dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.
	No trees within limits.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 5,6,7 and 8, with brass cap marked
	T44S | R1E S6 | S5 S7 | S8 1917 from which

Subdivision of T. 44 S., R. 1 E.

Chains	
	A cedar, 6 ins.diam.,bears N.38°E., 299 lks.dist., mkd. T44S R1E S5 BT
	A cedar,10 ins.diam.,bears N.20½°W.,349 lks.dist., mkd. T44S R1E S6 BT
	and dig pits, 18x18x12 ins. in each sec.,5½ ft. dist. of post. No trees within limits in remaining secs.
	N. 11.40chs. steep, rocky slope of canyon, which drains W.; remaing portion of mile, rolling top of sandy mesa, with deep, loose sandy soil.
	Timber, very scattered cedar and pinon on mile.
	Undergrowth, scattering sage, brigham-tea, oose and grass.
	East, on random line, bet. secs. 5 and 8.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect the cor. of secs. 4,5,8 and 9.
	Thence,
	West, on true line, bet. secs. 5 and 8.
	Over rolling, sandy mesa land, through scattered timber.
22.82	A point from which the witness 123rd mile cor. on offset Utah-Arizona bdy. bears South, 70 lks. dist. This cor. is 21.81 chs. N. of its true position, and is a sandstone, 12x10x7 ins., above ground, firmly set, mkd. and witnessed as described by the surveyor general.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S5 / S8 1917 from which
	A cedar, 8 ins.diam.,bears N.26°40'E.,235 lks.dist., mkd. ¼ S5 BT
	A cedar, 6 ins.diam.,bears S.76¾°E., 337 lks.dist., mkd. ¼ S8 BT
80.00	The cor. of secs. 5,6,7 and 8.
	Land, rolling mesa land, slope to S. and SE.
	Soil, deep, loose, sandy.
	Timber, very scattered pinon and cedar, heavier near W. end of mile.
	Undergrowth, sage, brigham-tea, oose and grass.

Subdivision of T. 44 S., R. 1 E.

Chains	
	West, on random line, bet. secs. 6 and 7.
40.00	Set temp. ¼ sec. cor.
82.68	Intersect W. bdy. of tp., at the cor. of secs. 5, 6 and 7, described in the survey of T.44 S.,R.1 W.
	Thence,
	East, on true line, bet. secs. 6 and 7.
	Over rolling mesa land, through scattering cedar and pinon timber; gradually desc. SE. slope.
42.68	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked ¼ S6 / S7 1917 from which A cedar, 12 ins.diam.,bears S.20°E., 73 lks.dist., mkd. ¼ S7 BT A cedar, 10 ins.diam.,bears N.37¾°W., 95 lks.dist., mkd. ¼ S6 BT
82.68	The cor. of secs. 5,6,7 and 8.
	Land, rolling mesa land, exposure to SE and S.
	Soil, deep, loose sandy and fine gravelly.
	Timber, scattering cedar and pinon on mile.
	Undergrowth, sage, brigham-tea, oose, yellow-top, grass and some scattered live-oak.
	Good grazing land.

	S. 0°03' E., on true line, bet. secs. 7 and 8.
	Over rolling top of mesa, gradually asc., through scattered cedar and pinon timber.
20.00	Enter broken land, with red sandstone ledges, brs. NE. and SW.
22.77	Intersect the Utah-Arizona State bdy, N.89°45'E., 23.02 chs. dist. of the 122nd mile cor., which is sandstone, 10x12x6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.
	At point of intersection,
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in

Subdivision of T. 44 S., R. 1 E.

Chains	
	mound of stone, 5 ft. base, on bedrock, for closing cor. of secs. 7 and 8, with brass cap marked
	U C | C T44S | R1E S7 | S8 A 1917 frmm which
	A cedar, 5 ins.diam.,bears N.19¼°E.,51 lks.dist., mkd. U CC T44S R1E S8 BT
	A cedar, 6 ins.diam.,bears N.63½°W., 88 lks.dist., mkd. U CC T44S R1E S7 BT
	Land, rolling and broken, with red sandstone ledges.
	Soil, loose sandy and rocky.
	Timber, scattering cedar and pinon.
	Undergrowth, sage, brigham-tea, oose and grass.
	Grazing land.

	Retracement of the Utah - Arizona State Boundary and Establishment of ¼ sec cnrs. on S. bdy of T.44 S.,R.1 E.
	From the witness 121st mile cor. on the Utah-Arizona bdy., which is 22.00 chs. N. of its true position, and heretofore described in the survey of T.44 S.,R.1 W.
	Thence,
	East, on the offset line, on the 122nd mile.
20.21	The closing cor. of T.44 S., Rs. 1 E and 1 W.
79.87	Thence South, 21.75 chs. to the 122nd mile cor. heretofore described.
	Note: No ½ sec. cor. for sec. 7 was set nn this line.

	From the 122nd mile cor., East, retracing the 123rd mile.
63.02	Thence offset,
	North, 21.81 chs., thence ~~Eastx~~
	East, on offset line,
80.20	Pall 35 lks. S. of the witness 123rd mile cor., which is 21.81 chs. N. of its true position, heretofore described .

Chains.	
	Therefore the true course of this mile is N.89° 45' E. and distance is 80.20 chs.
	Return to the 122nd mile cor.; thence N.89° 45' E. on retracement of the 123d mile.
	Over broken, ledgy land, breaking off to the S.; through some scattering timber and short undergrowth.
23.02	The closing cor. of secs. 7 and 8.
63.02	Position for the ¼ cor. of sec. 8.
	Set a sandstone 18" x 14" x 3 ins., 12 ins. in ground, for ¼ sec. cor. of sec. 8 only, marked ¼ S 8 on N. face; from which
	A cedar, 6 ins. diam., bears N.34° W. 261 lks. dist. marked ¼ S 8 BT
	and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor. No other trees within limits.
	Thence on offset, North, 21.81 chs.; thence N.89° 45' E. on offset line.
80.20	The witness 123d mile cor.
	Land, rough and broken, with low broken sandstone ledges. Soil, rocky and loose sand. Timber, scattering cedar and pinon. Undergrowth, short sage, yellow-top, oose and grass.
	From the 126th mile cor., which is an iron post 2 ins. dia., extending 2 ft. above the ground, firmly set marked and witnessed as described by the surveyor general,
.....	East, retracing the 127th mile.
79.60.	Fall 23 lks. S. of the 127th mile cor., heretofore described in the notes of the survey of T.44 S., R.2 E.
.....	True course of this mile is therefore N.89°43' E., and distance 79.60 chs.
.....	Return to the 126th mile cor.; thence N.89° 48' E., on retracement of the 127th mile;
	Over broken and hilly land; through scattering cedar and pinon timber and short undergrowth.

Retracement of the Utah-Arizona Boundary
and
Establishment of ¼ Sec. Cors. on S. Bdy. of T. 44 S. R. 1 E.

Chains.	
10.00	Gulch course S.; asc.
31.00	Rocky S. point of spur, slopes off to the S.; desc.
48.00	Gulch, course S.; asc. abruptly over rim rock or break.
54.00	Top of red sandstone rim or break, 175 ft. above gulch, bears NE. and SW.; thence over high bench land.
64.51½	Position for the ¼ cor. of sec. 12, midway bet. the closing cor. of secs. 11 and 12 and the closing cor. of T. 44 S., Rs. 1 & 2 E.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ cor. of sec. 12 only, with brass cap mkd.
	¼ S 12 / 1917
	from which
	A cedar, 6 ins. diam., bears N. 24¼° E. 42 lks. dist. marked ¼ S 12 BT
	A cedar, 8 ins. diam., bears N. 76¼° W. 54 lks. dist. marked ¼ S 12 BT
73.10	Wash, 40 lks. wide, 5 ft. deep, course SW.
79.60	The 127th mile cor.

Land, broken and rolling; general exposure to S.
Soil, loose sandy, with red sandstone bedrock and ledges.
Timber, scattering cedar and pinon on mile.
Undergrowth, sage, oose, brigham-tea and grass.

Latitudes, Departures and Closing Errors.

Lines Designated	True Bearing	Dist. chs.	Latitudes. N. chs.	Latitudes. S. chs.	Departures. E. chs.	Departures. W. chs.
East Boundary	North	102.05	102.05			
North Boundary	West	482.68				482.68
West Boundary	South	80.00		80.00		
S. Bdy. Sec. 6	East	82.68			82.68	
S. " " 5	East	80.00			80.00	
E. " " 5	N. 0° 03' W.	20.20	20.20			.02
S. " " 4	East	79.87			79.87	
S. " " 3	East	80.10			80.10	
W. " " 2	S. 0° 01' E.	20.14		20.14	.01	
S. " " 2	East	80.00			80.00	
W. " " 12	S. 0° 01' E.	22.27		22.27	.01	
S. " " 12	N. 89° 48' E.	55.12	.19		55.12	
S. " " 12	N. 89° 49' E.	24.95	.08		24.95	
Convergency						.11
Totals			122.52	122.41	482.74	482.81
			122.41			482.74
Error in lat. and dep.			0.11			.07

General Description of T. 44 S., R. 1 E.

This fractional township contains high rolling bench and mesa lands; broken, ledgy red sandstone breaks and walls; has a general southern exposure on the greater portion; drains into the Paria river, which has an easterly course, and lying from $\frac{3}{4}$ to $1\frac{1}{2}$ miles to south of the state boundary. The high mesa land, has an elevation of about 2000 ft. above the Paria river.

The soil throughout this tp. is mainly a fine, loose, red sand, with sandstone bedrock and ledges; is covered with considerable undergrowth of sagebrush, brigham-tea, yellow-top, oose, bunch-grass and some scattered live-oak. The undergrowth varies from 1 to 3 ft. in height.

Scattering timber of scrub cedar and pinon is found throughout the tp.

There is no water in the tp., nor any indications of mineral found.

There are no settlers in this tp.

Township is used for grazing purposes.

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BOOK A-437

FIELD ASSISTANTS.

NAMES.	CAPACITY.
Lacelle Bird	Head- Chainman
Richard Huntington	Rear - Chainman
Wilfred Williams	Cornerman
Frank H. Clark	Ax and flagman

The above assistants were employed in the survey of

T. 44 S., R. 1 E.

6—2784

TRANSITMAN.

CERTIFICATE OF UNITED STATES ~~SURVEYOR~~.

I, Elliot Bird, U. S. ~~Surveyor~~ Transitman, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the 1st 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 all those parts or portions of

Retracement of the Utah - Arizona State Boundary along S. bdy of T.44 S.,R.1 E., survey of East Boundary and Subdivision of T. 44 S., R. 1 E.

of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes and date diagram on page 1 as having been executed by me, and ~~under my direction~~, on dates as shown on date diagr ~~and that all the corners o~~ 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 o such survey.

Elliot Bird

U. S. ~~Surveyor~~ Transit

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Oct. 30, 191 6

The foregoing field notes of the ~~survey~~ of retracement of the Utah-Arizona Boundary along the south boundary of T.44 S., R.1 E. and the survey of the east boundary and subdivision of Township No. 44 South, Range No. 1 East, o the Salt Lake Base and Meridian, Utah,

executed by Elliot Bird

under ~~his~~ special instructions dated February 1, 191 6, having been critically examined, and the necessary corrections and explanations made, the said field notes and the surveys and retracements they describe, are hereby approved.

M O Thorson

U. S. Surveyor General

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

U. S. Surveyor General

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Page

MAR 28 1918
SALT LAKE CITY

BOOK A-437

I.

FIELD NOTES

OF THE SURVEY OF THE

Retracement of the Utah - Arizona State Boundary

along South boundary of T. 44 S., R. 2 E.

and

Subdivision of

T. 44 S., R. 2 E.

Of the Salt Lake Base and *Meridian,*

In the State of Utah

EXECUTED BY

ELLIOT BIRD, U.S. Transitman

~~*In the capacity of U. S. Surveyor*~~, *under instructions dated* February 1, *1916*, *issued by the United States Surveyor General to govern surveys included in Group No.* 50, *which were approved by the Commissioner of the General Land Office,* March 25, *1916*, ~~*pursuant to authority contained in the Act of Congress dated* 191~~

Supplemental Assignment instructions dated Sept. 5, 1917

Survey commenced October 4, *1917*

Survey completed October 19, *1917*

Examinations Classified

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

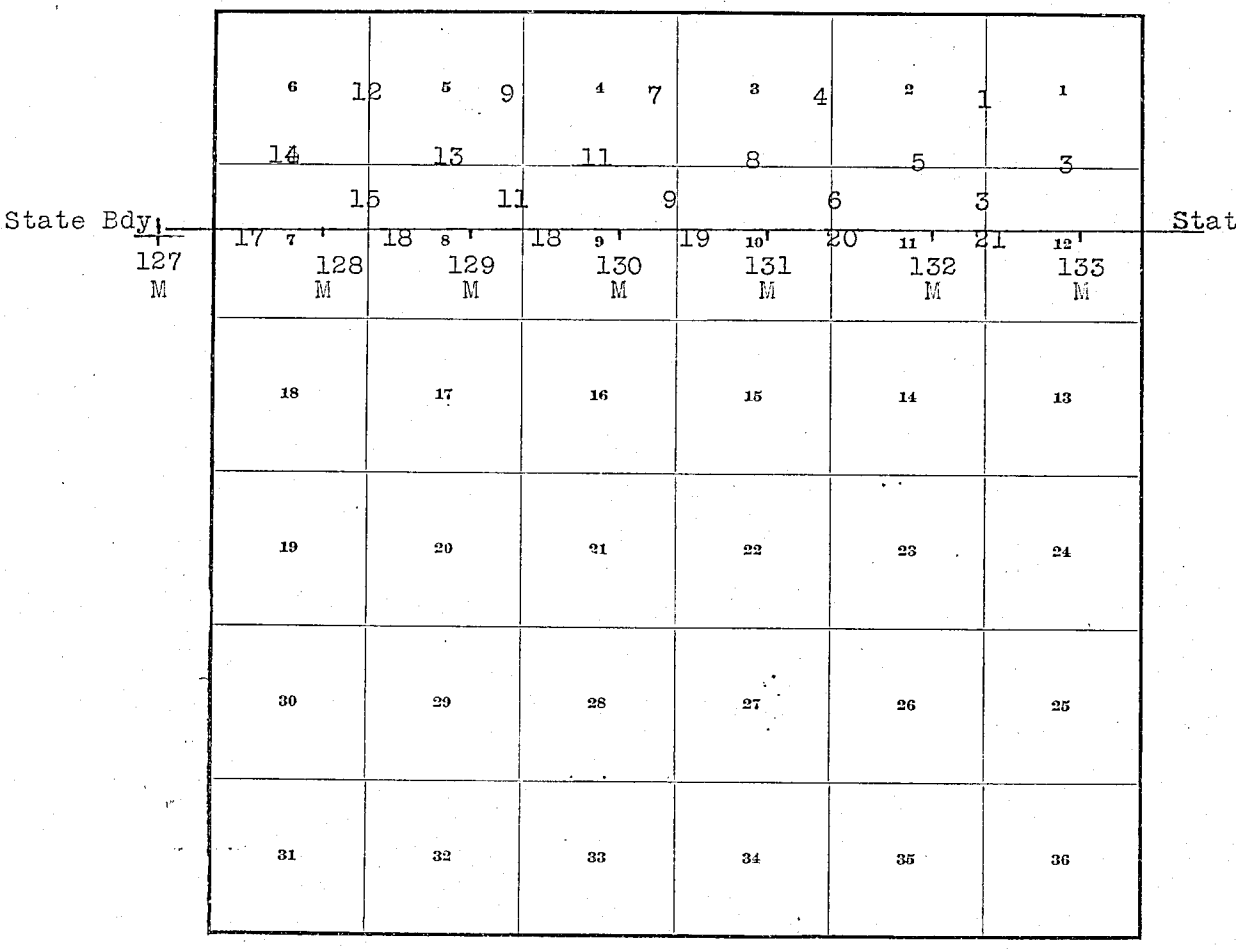
B Computations F.B.J.

C Comparing Plat E.B.B. Notes V.I.F.

BOOK A-437

INDEX DIAGRAM.

Township 44 South, *Range* 2 East



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INDEX DIAGRAM.

Township 44 S., Range 2 E

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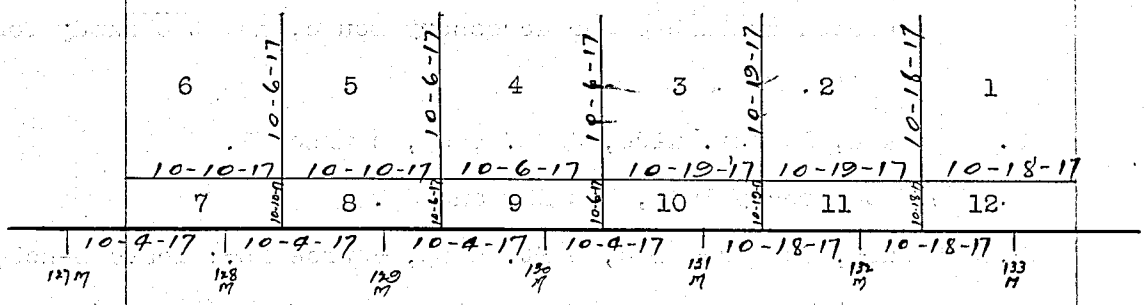
31	32	33	34	35	36

Utah Argonne Bdy Line

6—4817

Date Diagram of T.44 S.,R.2 E.



Subdivision of T. 44 S., R. 2 E.

Survey commenced October 4, 1917 and executed with a Young & Sons' light mountain No. 8487, equipped with Smith' solar attachment, for full description of instrument , test and approval see survey of T.43 S.,R. 1 W.

All measurements made with steel tapes and clinometers.

From the cor. of secs. 1,2,35 and 36, on N. bdy. of tp., described in the survey of T.43 S.,R. 2 E, recently established.

Thence,

S. 0° 01' E., bet. secs. 1 and 2.

Over rolling, open, sandy bench land, gentle slope to NE., through short undergrowth.

0.50 Sand wash, 60 lks. wide, 4 ft. deep, course nearly E.

22.00 Wash, 70 lks. wide, 5 ft. deep, course NE.

40.00 On N. edge of wash.

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

Subdivision of T. 44 S., R. 2 E.

Chains	
	ground, for ¼ sec. cor., with brass cap marked ¼ S2 | S1 1917 from which
	Ancoak, 4 ins.diam.,bears S.11½°W., 75 lks.dist., mkd. ¼ S.2 BT
	No rock available for accessory mound, and too sandy for pits.
40.30	Wash, 20 lks. wide, 3 ft. deep, course NE.
45.00	Enter rocky land, brs NW. and SE.
53.00	Wash, 50 lks. wide, 4 ft. deep, course NE.; leave bench, enter broken mountainous land, and few scattered cedars and pinon , brs NW. and SE.
	Asc. abruptly, general NE. face, 210 ft. to
71.25	Top of ascent and rocky point projects NE.; true point for sec. cor., S.0°01'E., 8.75 chs. dist., falls on steep slope near bottom of box gulch, impracticable to set; therefore at this point
	Set a sandstone, 12x10x8 ins., in a mound of stone, on bedrock, for witness cor. to cor. of secs. 1,2,11 and 12, marked S1 on NE., S12 on SE., S11 on SW., and S2 WC on NW face, from which
	A pinon, 4,ins.diam.,bears N.70°W., 27 lks.dist., mkd. WC T44S R2E S2 BT
	No other trees within limits; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor;no iron post available
	Descend abruptly steep rocky slope, 200 ft. to
79.00	Bottom of gulch, course NE.; asc.
80.00	On steep ledgy slope, set reference flag at true point for cor. secs. 1,2,11 and 12. Cor. not set.
	N. 45 chs. rolling bench land; soil, deep, loose, fine, white sand and gravel; remainder of mile is rough, mountainous, general E. face; soil, mostly rocky of sandstone formation, with some loose sand; drainage on mile to NE.

Chains	
	Undergrowth, short sagebrush, brigham-tea, pose-weed and some bunch grass on mile.
	Timber, very scattered scrub cedar and pinon on mountainous portion.

	East, on random line, bet. secs. 1 and 12.
40.00	Set temp. ¼ sec. cor.
80.10	Intersect E. bdy. of tp., 7 lks. N. of cor. secs. 1,6, 7 and 12, described in survey of T.44 S.,R.3 E., recently established under Group No. 51.
	Thence,
	N. 89° 57' W., on true line, bet. secs. 1 and 12.
	Over rolling sandy bench land, slope to N., through short undergrowth.
22.60	Main wash, 90 lks. wide, 10 ft. deep, course NE.
40.05	On low sandy ridge.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	$\frac{1}{4}$ S1 / S12 1917
	Deep, loose sand, pits impracticable.
70.00	Leave bench, enter rough mountainous land, brs NW. and SE.; asc. abruptly E. face, through scattering cedars.
75.00	Top of ascent on E. edge of gulch, 190 ft. above base, brs. NE and SW.; desc. abruptly over ledges, 110 ft. to
80.10	The true point for cor. secs. 1,2,11 and 12.
	E. 70 chs. rolling open bench land, exposure to N.; soil, deep, loose, sandy and fine gravelly; remainder in E. face of mountain, rocky soil, and ledges.
	Undergrowth, short sage, brigham-tea, shadscale, & grass.
	Timber, scattering cedars on W. 10 chs.

	S. 0°01' E., on true line, bet. secs. 11 and 14, from true point for cor. of secs. 1, 2, 11, and 12.

Chains	
	Asc. abruptly S. side of gulch, 195 ft. to
3.00	Top of S. side gulch, brs NE. and SW.; thence over rolling top, through scattering cedar and pinon timber.
21.17	Intersect Utah-Arizona State bdy., N.89°54'E., 27.39 chs. dist. of the 132nd mile cor., hereinafter described.
	At point of intersection
	Set a sandstone, 18x15x10 ins., 12 ins. in ground, for closing cor. of secs. 11 and 12, marked with U CC S11 & S12 on N. side, & on S side, from which
	A pinon, 6 ins.diam.,bears N.30°E.,25 lks. dist., mkd. U CC T44S R2E S12/BT A pinon, 10 ins.diam.,bears N.75°W., 100 lks.dist., mkd. U CC T44S R2E S11/BT
	Land, rolling and broken, face to NE.
	Soil, sandy and rocky; sandstone formation.
	Undergrowth, short sage, brigham-tea, oose and grass.
	Timber, scattering cedar and pinon.

	From the cor. of secs. 2,3,34 and 35 on N. bdy. of tp., described in the survey of T.43 S.,R.2 E.
	Thence,
	S. 0°01' E., bet. secs. 2 and 3.
	Over mountainous land, broken general E. face, through scattering cedar and pinon timber; rocky soil.
14.00	Bottom of gulch, 40 ft. below cor.,course NE.; asc.
19.10	Base of rim rock, brs NW. and SE.; asc. abruptly
21.20	Top of same, 45 ft. above base, brs NW and SE.; continue ascent.
40.00	Top of ascent and mountain, 225 ft. above gulch at 14chs.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, 5 ft. base, on bedrock, for ¼ sec. cor., with brass cap marked
	S3 | S2 1917 from which

Subdivision of T. 44 S., R. 2 E.

Chains	
	A cedar, 10 ins.diam.,bears N.39¾°E., 126 lks.dist., mkd. ¼ S2 BT
	A cedar, 12 ins.diam.,bears S.83¾°W., 117 lks.dist., mkd. ¼ S3 BT
	Thence over rolling mesa land.
61.00	Wash, 20 lks. wide, 10 ft. deep, course NE.
70.00	Top of low ridge, 20 ft. high, brs. NE. and SW.
80.00	On SW. slope.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. secs. 2,3,10 andl1, with brass cap marked
	T44S | R2E S3 | S2 S10 | S11 1917
	from which
	A cedar, 6 ins.diam.,bears S.77°E.,72 lks.dist., mkd. T44S R2E S11 BT
	No other trees within limits, and no rock available for accessory mound; pits impracticable.
	N. ½ mile, broken mountainous; E. face; soil, rocky, with some loose sand; S. ½ mile rolling bench; soil, deep loose sandy, gravelly and some stony: drainage on mile to NE.
	Timber, scattering cedars and pinon on mile.
	Undergrowth, short scattering yellow-top, brigham-tea, oose and grass, on mile.
	East, on random line, bet. secs. 2 and 11.
35.09	Set temp. ¼ sec. cor., on edge of gulch.
80.06'	Intersect N. and S. line, 2 lks. S. of true point for cor. secs. 1,2,11 and 12.
	Thence,
	S. 89°59' W., on true line, bet. secs. 2 and 11.
	Over mountainous land, general E. face, through very scattering cedar and pinon timber; rocky land.
	Asc. abruptly from bottom of gulch, 210 ft. to
5.80	Top edge of box gulch, brs NE. and SW.; continue ascent.

Chains

39.10 E. edge of gulch, brs. NE. and SW.; desc. abruptly 90 ft.

40.03 Point for ¼ cor. falls in bottom of gulch, course NE.

impracticable to set.

Ascend abruptly 150 ft. to

44.97 Top W. side of gulch, brs. NE. and SW., 550ft.above sec cor

Set a hard sandstone, 36x24x6 ins., 27 ins. in groundof

stone, on bedrock, for witness ¼ sec. cor., marked

WC ¼ on N. face, (no iron post available) from which

A pinon, 14 ins.diam., bears N.44°E., 62 lks.dist., mkd. WC ¼ S2 BT

A pinon, 12 ins.diam., bears S.19½°E., 21 lks.dist., mkd. WC ¼ S11 BT

71.00 Top of ascent and leave mountainous land, 300 ft. above

W. ¼ C., brs. NW. and SE.; thence over rolling land.

80.06 The cor. of secs. 2,3,10 and 11.

E. 71 chs. steep, rocky mountainous land; drainage to

NE.; remainder rolling top of mesa, sandy soil.

Timber, scattering cedar and pinon.

Undergrowth, short yellow-top, brigham-tea, ooze & grass, on mile.

S. 0°01' E., on true line, bet. secs. 10 and 11.

Over rolling mesa land, through scattering cedar and

pinon timber.

18.70 Wash, 10 lks. wide, 3 ft. deep, course NE.

21.31 Intersect Utah - Arizona state bdy., N.89°53'E., 27.43

chs. dist. of the 131st. mile cor., hereinafter described

At point of intersection,

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in

ground, for closing cor. of secs. 10 and 11, with brass

cap marked

U C C

T44S R2E

S10 S11

1917 from which

A cedar, 8 ins.diam., bears N.84°E., 211 lks.dist., mkd. U CC T44S R2E S11 BT

A cedar, 6 ins.diam., bears S.21°W., 400 lks.dist., mkd. U CC T44S R2E S10 BT

Subdivision of T. 44 S., R. 2 E.

Chains	
	Land, rolling mesa land, exposure and drainage NE.
	Soil, deep, red sand.
	Timber, scattering cedar and pinon.
	Undergrowth, short yellow-top, brigham-tea, oose and grass.
	Good grazing land.

	From the cor. of secs. 3,4,33 and 34 on N. bdy. of tp., described in the survey of T.43 S.,R. 2 E.
	Thence,
	S. 0°02' E., bet. secs. 3 and 4.
	Over high rolling land, slope to NW., through medium dense cedar and pinon timber; sandy soil.
	Gradually ascend, through undergrowth.
24.00	Enter rocky soil, and begin steeper ascent, brs. NE & SW.
40.00	On N. slope, 125 ft. above sec. cor.
	Set an iron post, 3 ft. long, 1 in. dia., 18 ins. in ground to solid rock, and in a mound of stone, for the ¼ sec. cor., with brass cap marked
	¼ S4 | S3 1917 from which
	A cedar,6 ins.dia.,bears S.54°W., 50 lks.dist., mkd. ¼ S4 BT A pinon,14 ins.diam.,bears S.84½°E.,32 lks. dist., mkd. ¼ S3 BT
	Asc. N. slope, 85 ft. to
43.40	Top of ascent and N. edge of high mesa land, forms divide bet. Paria river and Wahweap creek, also locally known as top of flat'Cedar Mountain', brs. NE. and SW.
	Thence over nearly level mesa land; sandy soil.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. secs. 3,4,9 and 10, with brass cap marked
	T44S | R2E S4 | S3 S9 | S10 1917 from which

Subdivision of T. 44 S., R. 2 E.

Chains	
	A cedar, 6 ins. diam., bears S.24°W., 189 lks. dist., mkd. T44S R2E S9 BT A cedar, 8 ins. diam., bears N.61½°W., 62 lks. dist., mkd. T44S R2E S4 BT
	No other trees within limits in remaining secs., and pits impracticable, deep loose sand.
	N.43.40chs. rolling land, slope to NW.; remainder nearly level top of high mesa.
	Soil, deep, loose sandy, with some scattered sandstone.
	Timber, medium dense cedar and pinon on mile.
	Undergrowth, oose, white sage, yellow-top and grass.
	Good grazing land on greater portion of mile.
	East, on random line, bet. secs. 3 and 10.
40.00	Set temp. ¼ sec. cor.
80.02	Intersect N. and S. line, 5 lks. N. of cor. secs. 2,3, 10 and 11.
	Thence,
	N. 89°58' W., on true line, bet. secs. 3 and 10.
	Over rolling land, gradually ascend, through scattering cedar and pinon timber.
17.00	Draw, 12 ft. deep, course NE.
20.00	Extreme NE. point of sandstone spur, 35 ft. high,
25.50	Top of ascent, 130 ft. above sec. cor., brs. NE & SW.
	Thence over nearly level land.
36.10	Stock trail, brs. N.20°E. and S.20°W.
40.01	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked ¼ S3 / S10 1917
	Deep, loose sand, pits impracticable, and no trees within limits.
80.02	The cor. of secs. 3,4,9 and 10.
	Land, rolling, broken and nearly level mesa land; exposure and drainage to NE.

Subdivision of T. 44 S., R. 2 E.

Chains	
	Soil, deep, loose sandy, gravelly and rocky; sandstone formation.
	Undergrowth, sage, yellow-top, brigham-tea, oose and grass.
	Timber, scattering cedars and pinon.

	S. 0°02' E., on true line, bet. secs. 9 and 10.
	Over nearly level land, through few scattering cedars, and pinon.
5.00	Leave all timber, brs SE and W.
21.51	Intersect Utah-Arizona state bdy., N.89°53'E., 27.39 chs. dist. of the 130th mile cor., hereinafter described.
	At point of intersection,
	Set an iron post, 3 ft. long, 2 ins. dia.,24 ins. in ground, for closing cor. of secs. 9 and 10, with brass cap marked
	U C | C T44S | R2E S9 | S10 A 1917
	dig pits, 24x18x12 ins., E, W; and N, 3 ft. dist.
	Land, nearly level mesa, slight exposure to SE.
	Soil, deep, loose sandy.
	Undergrowth, yellow-top, oose and scattering sage.
	Timber, scattering cedar and pinon on N. 5 chs.

	From the cor. of secs. 4,5,32 and 33 on N. bdy. of tp., described in the survey of T.43 S.,R.2 E.
	Thence,
	S. 0°02' E., bet. secs. 4 and 5.
	Over rolling, sandy bench land, sloping to NW., through scattering cedars, and short undergrowth.
30.35	Begin descent into ravine, brs E. and W., also enter rocky land.
38.75	Bottom of ravine or gully, 115ft. below top, course W. about 5 chs. to main gulch, course NW.

Subdivision of T. 44 S., R. 2 E.

Chains	
	Asc. 35 ft. to
40.00	On NW. slope on sandy point bet. gully and main gulch. Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked ¼ S5 | S4 1917 from which A cedar, 24 ins. diam., bears N. 60½° E., 120 lks. dist., mkd. ¼ S4 BT A pinon, 8 ins. diam., bears N. 39½° W., 78 lks. dist., mkd. ¼ S5 BT
	Asc. 40 ft.
44.95	Top of sandstone ledge and N. edge of gulch, brs SE. and extends NW. 1 ch. to point.; abrupt descent, 50 ft.
49.30	Wash, 20 lks. wide, 4 ft. deep, in bottom of deep, box gulch, course NW.; abrupt ascent over ledges, 150 ft.
52.00	Top of ledges and S. rim of gulch, brs NW and SE.; thence asc. smooth sandy N. slope.
78.00	Top of ascent, 150 ft. above rim of gulch, brs NW & SE.
	Desc. 15 ft. to
80.00	Near foot of break. Set an iron post, 3 ft. long, 2 ins. dia., 14 ins. in ground to bedrock, and in a mound of stone, for cor. secs. 4, 5, 8 and 9, with brass cap marked T44S | R2E S5 | S4 S8 | S9 1917 from which A pinon, 10 ins. diam., bears N. 74½° E., 120 lks. dist., mkd. T44S R2E S4 BT A pinon, 6 ins. diam., bears S. 13¾° E., 53 lks. dist., mkd. T44S R2E S9 BT A pinon, 6 ins. diam., bears S. 52¾° W., 315 lks. dist., mkd. T44S R2E S8 BT A pinon, 8 ins. diam., bears N. 55½° W., 205 lks. dist., mkd. T44S R2E S5 BT Land, rolling and broken, exposure and drainage to NW. Soil, sandy and sandstone bedrock. Timber, scattering cedars and pinon, on mile. Undergrowth, short sage, greasewood, oose and bunch grass.

Subdivision of T. 44 S., R. 2 E.

Chains	
	East, on random line, bet. secs. 4 and 9.
40.00	Set temp. ¼ sec. cor.
80.02	Intersect N. and S. line, 12 lks. S. of cor. secs. 3,4, 9 and 10.
	Thence,
	S.89°55' W., on true line, bet. secs. 4 and 9.
	Over gently rolling top of mesa, through scattering cedar and pinon timber; gradually asc.
40.01	On top of divide bet. Paria river and Wahweap creek, 100 ft. above sec cor., general bearing NE. and SW
	Set an iron post, 3 ft. long, 1 in. dia., 10 ins. in ground to bedrock, and in mound of stone, for ¼ sec. cor., with brass cap marked
	¼ S4 / S9 1917 from which
	A pinon, 6 ins. diam., bears N.44½°W., 159 lks. dist., mkd. ¼ S4 BT
	A pinon, 8 ins. diam., bears S.11¾°W., 172 lks. dist., mkd. ¼ S9 BT
40.50	Begin descent, over rocky broken land; breaks off to N.
80.02	300 ft, below ¼ sec. cor.
	The cor. of secs. 4,5,8 and 9.
	E. ½ mile, gently rolling top of mesa; loose sandy soil:
	W. ½ mile, along N. slope of break, rocky and clay soil.
	Timber, scattering cedar and pinon on mile.
	Undergrowth, scattering sage, yellow-top and brigham-tea.

	S. 0° 03' E., on true line, bet. secs. 8 and 9.
	Over rough N. face of red sandstone break, through cedar and pinon timber.
0.60	Base of ledge and break, brs. N.70°E. and S.70°W.; asc.
5.30	Top of ledge and break, 115 ft. above cor., brs. same.
	Thence over rolling top, exposure to NW.
21.71	Intersect Utah-Arizona state bdy., N.89°53'E., 27.21 chs. dist., of the 129th mile cor., hereinafter described.

Subdivision of T. 44 S., R. 2 E.

Chains	
	At point of intersection.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in mound of stone, on bedrock, for closing cor. of secs. 8 and 9, with brass cap marked
	U C | C T44S | R2E S8 | S9 A 1917 from which
	A pinon, 8 ins.diam., bears N.18½°E., 88 lks.dist., mkd. T44S R2E.S9 U CC BT A cedar, 10 ins.diam., bears N.67¼°W., 13 lk.sdist., mkd. U CC T44S.R2E S8 BT
	Land, N.5.30chs. N. face of red sandstone break; remainder rolling land, having a slight slope to NW.
	Timber, cedar and pinon.
	Undergrowth, sage, brigham-tea, oose and grass.

	From the cor. of secs. 5,6,31 and 32 on N. bdy. of tp., described in the survey of T.43 S.,R.2 E.
	Thence,
	S. 0°03' E., bet. secs. 5 and 6.
	Gradually asc. over rolling land, facing NW., through scattering cedar and pinon timber; sandy soil.
6.90	Ravine, 25 ft. deep, course NW.
37.00	Ravine, 15ft. deep, course NW.
40.00	On smooth N. slope, 75 ft. above sec. cor.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S6 | S5 1917 from which
	A pinon, 12 ins.diam., bears S.78¾°E., 336 lks.dist., mkd. ¼ S5 BT
	dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.
	No other trees within limits.
68.90	Base of red sandstone rim or break, brs. S.70°E and W.
	Asc. abruptly, 75 ft. to

Chains	
70.60	Top of rim and break, brs same; continue gradual ascent.
80.00	On N. slope, 275 ft. above ¼ sec. cor.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 5,6,7 and 8, with brass cap marked

T44S	R2E
S6	S5
S7	S8

1917 from which

A pinon, 10 ins. diam., bears N. 51½°E., 120 lks. dist., mkd. T44S R2E S5 BT.
A pinon, 6 ins. diam., bears S. 43¾°E., 142 lks. dist., mkd. T44S R2E S8 BT
A cedar, 5 ins. diam., bears S. 71½°W., 66 lks. dist., mkd. T44S R2E S7 BT
A pinon, 8 ins. diam., bears N. 65°W., 110 lks. dist., mkd. T.44S R2E S6 BT

Land, rolling and broken; general NW. face and drainage.

Soil, deep loose sandy, gravelly and rocky, with some sandstone bedrock.

Timber, scattering cedar and pinon on mile.

Undergrowth, white sage, greasewood, oose and grass.

Fair grazing land.

	East, on random line, bet. secs. 5 and 8.
40.00	Set temp. ¼ sec. cor.
80.12	Intersect N. and S. line, 5 lks. S. of the cor. secs. 4,5,8 and 9.
	Thence,
	S. 89°58' W., on true line, bet. secs. 5 and 8.
	Over broken land, lying under rim or low break, facing NW., through scattering cedar and pinon timber.
	Gradually desc., 125 ft. to
38.10	Wash, 25 lks. wide, 5 ft. deep, course N.70°W.; asc. 35 ft.
40.06	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked

¼ S5 / S8

1917 from which

Subdivision of T. 44 S., R. 2 E.

Chains	
	A pinon, 8 ins.diam.,bears N.70½°E., 108 lks.dist., mkd. ¼ S5/BT
	A pinon, 4 ins.diam.,bears S.27¼°W., 86 lks.dist., mkd. ¼ S8/BT
59.00	Head of draw, 10 ft. deep, course N.20°W., at foot of broken red sandstone rim, brs NW. and S.80°E,
	Asc. 55 ft. to
69.00	Top of rim, brs NW. and S.80°E.; thence over rolling top.
78.00	Draw, 20 ft. deep, course N.
80.12	The cor. of secs. 5,6,7 and 8.
	Land, broken, general face and drainage to NW and N.
	Soil, rocky, sandstone bedrock, clay loam and sandy.
	Timber, scattering cedar and pinon on mile.
	Undergrowth, sage, oose, greasewood and grass.

	West, on random line, bet. secs. 6 and 7.
40.00	Set temp. ¼ sec. cor.
82.04	Intersect W. bdy. of tp., at the cor. of secs. 1,6,7 and 12, described in the survey of T.44 S.,R.1 E.
	Thence,
	East, on true line, bet. secs. 6 and 7.
	Gently ascending over broken land, through scattering cedar and pinon timber.
8.50	Wash, 20 lks. wide, 4 ft. deep, course NE.
22.00	Sandstone point, 50 ft. high, projects N. desc.
42.04	On NW. slope, at foot of rim or break, brs NE & SW.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, on bedrock, for ¼ sec. cor., with brass cap marked
	¼ S6/S7 1917 from which
	A pinon, 10 ins.diam.,bears N.30°W., 82 lks.dist., mkd. ¼ S6/BT
	A pinon, 7 ins.diam.,bears S.10°W., 76 lks. dist., mkd. ¼ S7/BT
	Asc. abruptly 65 ft. over sandstone rim or break.

Chains	
46.40	Top of rim. brs NE. and SW.; continue gradual ascent.
82.04	The cor. of secs. 5,6,7 and 8.
	Land, broken, general N. and NW exposure and drainage.
	Soil, rocky, sandy and gravelly; sandstone formation.
	Timber, scattering cedar and pinon on mile.
	Undergrowth, sage, yellow-top, greasewood and grass.

	S. 0° 03' E., on true line, bet. secs. 7 and 8.
	Gradually asc. over rolling land, facing N., through scattering cedar and pinon timber.
20.00	Top of ascent, 80 ft. above sec. cor., brs. E. and W.
21.75	Intersect Utah-Arizona state bdy, N.89° 53' E., 27.12 chs. dist. of the 128th mile cor., hereinafter described.
	At point of intersection,
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for closing cor. of secs. 7 and 8, with brass cap marked

U
C | C
T44S | R2E
S7 | S8

A
1917 from which

A cedar, 6 ins.diam., bears N.19°E., 23 lks.dist., mkd. U CC T44S R2E S8 BT
A cedar, 8 ins.diam., bears N.32°W., 114 lks.dist., mkd. U CC T44S R2E S7 BT

Land, rolling, NW. face and drainage.

Soil, deep sandy and gravelly.

Timber, scattering cedar and pinon.

Undergrowth, sage, yellow-top, oose, greasewood and grass.

Fair grazing land.

Retracement of Utah-Arizona State Boundary.

Chains	
	From the 127th mile cor. on Utah-Arizona state bdy., which is an iron post, 2 ins. dia., extending 2 ft. above ground, firmly set, marked and witnessed as described by the surveyor general.
	Thence,
	East, retracing the 128th mile.
79.96	Fall 26 lks. S. of the 128th mile cor., which is a sandstone, 10x16x6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general
	True bearing of this line is therefore N.89°49'E., and distance is 79.96 chs.
	East, retracing the 129th mile.
79.97	Fall 16 lks. S. of the 129th mile cor., which is a sandstone, 12x18x6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.
	True bearing of this line, is therefore, N.89°53'E., and distance is 79.97 chs.
	East, retracing the 130th mile.
79.78	Fall 16 lks. S. of the 130th mile cor., an iron post, 2 ins. dia., extending 2 ft. above ground, firmly set, mkd. and witnessed as described by the survyor general.
	True bearing of this line is therefore N.89°53'E., and distance is 79.78 chs.
	East, retracing the 131st mile.
80.04	Fall 16 lks. S. of the 131st mile, an iron post, 2 ins. dia., extending 3 ft. above ground, firmly set, marked and witnessed as described by the surveyor general.
	True bearing of this line is therefore N.89°53'E., and distance is 80.04 chs.

Retracement of the Utah-Arizona State Boundary.

Chains	
	East, retracing the 132nd mile.
80.11	Fall 16 lks. S. of the 132nd mile cor., a sandstone, 12x11x7 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.
	True bearing of this mile is therefore N.89°53'E., and distance is 80.11 chs.
	East, retracing the 133rd mile.
79.78	Fall 14 lks. S. of the 133rd mile cor., an iron post, 2 ins. dia., extending 2 ft. above ground, firmly set, marked and witnessed as described by the surveyor general.
	True bearing of this mile is therefore N.89°54'E., and distance is 79.78 chs.

Retracement of the Utah-Arizona State Boundary
and
Establishment of ¼ sec.cors. on S.bdy of T.44S.,R.2 E.

	From the 127th mile cor., N.89°49'E., retracing the 128th mile.
	Over rolling sandy land, through scattering cedar and pinon timber.
24.95	The closing cor. of T.44S.,Rs.1 & 2 E.
35.00	Base of sandstone break, brs. NE. and SW.; asc. abruptly over broken ledges, 150 ft. to
62.00	Top of break, break, brs NE and SW.; thence over rolling mesa land.
67.08	Position for ¼ cor. on S. bdy. of sec. 7, T.44 S.,R.2 E., 40.00 chs. westing from the closing cor. of secs.7 & 8.
	Set an iron post, 3 ft. long, 1 in.dia., 26 ins. in ground, for ¼ cor. sec. 7 only, with brass cap mkd.

$\frac{1}{4}$ $\frac{S7}{1917}$ from which

A cedar,14 ins.diam.,bears N.75½°W.,132 lks.dist., mkd. ¼ S7 BT

A cedar,10 ins.diam.,bears N.67½°E., 232 lks.dist., mkd. ¼ S7 BT

Chains	
79.96	The 128th mile cor.
	Land, rolling and broken; drainage to W.
	Soil, deep, loose sandy, and sandstone ledges and bed-rock.
	Timber, scattering cedar and pinon.
	Undergrowth, short scattering sage, yellow-top, oose and grass. Fair grazing on portion of mile.

	N. 89°53' E., retracing the 129th.
	Over gently rolling mesa land, through scattering cedars and pinon timber.
27.12	The closing cor. of secs. 7 and 8.
46.60	Wash, 20 lks. wide, 4 ft. deep, course NW.
67.15	Position for ¼ cor. midway bet. the closing cors. of secs. 7 & 8 and 8 & 9.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec. 8 only, with brass cap marked
	¼ S8 / 1917 from which
	A cedar, 10 ins. diam., bears N.21½°E., 12 lks. dist., marked ¼ S8 BT
	A cedar, 10 ins. diam., bears N.85½°W., 34 lks. dist., marked ¼ S8/BT
79.97	The 129th mile cor.
	Land, rolling, slight exposure to NW.
	Soil, deep, loose sandy and gravelly.
	Timber, scattering cedar and pinon.
	Undergrowth, short sage, yellow-top, oose and grass.
	Good grazing land.

	N. 89°53' E., retracing the 130th mile.
	Over rolling land, gradually asc., through scattering cedar and pinon timber.
27.21	The closing cor. of secs. 8 and 9.
40.00	Top of ascent and flat divide bet. Paria river and

Retracement of the Utah-Arizona State Boundary
and
Establishment of ¼ sec cors. on S bdy of T.44 S.,R.2 E.

Chains	
	Wahweap creek, brs. NE. and SW.; thence over high mesa land.
67.19	Position for ¼ cor. midway bet. the closing cors. of secs. 8 & 9 and 9 & 10.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec. 9 only, with brass cap mkd.
	¼ S9 / 1917
	dig pits, 18x18x12 ins. E. and W. of post, 3 ft. dist.
	No trees within limits.
79.78	The 130th mile cor.
	Land, gently rolling and slightly broken high mesa land; exposure and drainage to NW. on W. ½ mile and about level on remainder.
	Timber, scattering cedar and pinon, heavier on W. ½ mile.
	Undergrowth, short sage, yellow-top, oose, and grass.
	Grazing land.

	N. 89°53' E., retracing the 131st mile.
	Over gently rolling top of mesa, through few scattered cedars and pinon.
27.39	The closing cor. of secs. 9 and 10.
67.43	Position for ¼ cor., midway bet. closing cors. of secs. 9 & 10 and 10 & 11.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec 10 only, with brass cap mkd.
	¼ S10 / 1917
	dig pits, 18x18x12 ins., E. and W. of post, 3ft. dist.
	No trees within limits.
70.00	Begin gradual descent on E. slope, 40 ft. to
80.04	The 131st. mile cor.
	Land, gently rolling mesa top; slight exposure to NE.
	Soil, deep, loose sandy and fine gravelly.

Retracement of the Utah-Arizona State Boundary
and
Establishment of ¼ sec cors. on S bdy of T.44 S.,R.2 E.

Chains	
	Timber, few scattered cedars and pinon.
	Undergrowth, short sage, yellow-top, oose, brigham-tea.
	Grazing land.

	N. 89°53' E., retracing the 132nd mile.
	Over rolling and broken land, facing to NE., through few scattering cedars and pinon timber.
3.40	Wash, 30 lks. wide, 3 ft. deep, course NE.
6.00	Rocky point bet. washes, projects N.
15.30	Wash, 70 lks. wide, 4 ft. deep, course NE.
27.43	The closing cor. of secs. 10 and 11.
30.00	Begin descent over E. face, broken mountainous land, brs. NE. and SW.
56.26	On top of W. edge of deep, rocky gulch, brs NE. and SW.
	True position for ¼ cor. of sec. 11 falls in gulch, impracticable to set; therefore at this point, which lois 11.20½chs., S.89°53'W. of true point for cor.,
	Set a red sandstone, 18x10x4 ins., 12 ins. in mound of stone, on bedrock, for witness ¼ cor. of sec. 11, only, marked WC ¼ on N. face, from which
	A pinon, 10 ins. diam., bears N.20°E., 40 lks. dist., mkd. WC ¼ S11 BT
	and raise a mound of stone, 2ft. base, 1½ft. high, N. of c
	No other trees within limits.
	Desc. abruptly.
66.20	Bottom of gulch, 200 ft. deep, course NE.
67.46½	True point for ¼ cor., on steep ledgy slope. Cor. not set.
	Asc. abruptly.
76.00	Top E. side of gulch, brs. NE. and SW.
80.11	The 132nd mile. cor.
	Land, mountainous and broken; general E. face; drainage to NE.
	Soil, mostly rocky, ledges and bedrock, with some loose sandy.
	Timber, scattering cedar and pinon.

Retracement of the Utah-Arizona State Boundary
and
Establishment of ¼ sec. cors. on S bdy of T.44 S.,R.2 E.

Chains	
	Undergrowth, scattering sage, greasewood and oose.
	N. 89°54' E., retracing the 133rd mile.
	Descending general E. face of broken mountain, through scattering cedar and pinon timber.
27.39	The closing cor. of secs. 11 and 12.
52.00	Base of mountainous land, 560 ft. below the 132nd mile cor., brs NW. and SE.; thence over rolling sandy, open bench land, sloping to NE.
66.32	True position for ¼ cor. of sec. 12, which is N.89°54'E., 119 chs. dist. falls in wash, impracticable to set, therefore at this point,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for witness ¼ cor. of sec. 12, with brass cap marked
	¼ S12 / 1917 WC
	dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.
67.51	True position for ¼ cor., midway bet. the closing cor. of secs. 11 and 12, and the closing cor. of T.44 S., Rs. 2 and 3 E., in wash, 50 lks. wide, in bottom of ravine, 30 ft. deep, course NE. Cor. not set.
79.78	The 133rd mile cor.
	W. 52 chs. Rough mountainous, E. face; rocky soil of sandstone formation; remainder rolling land, sloping to NE.; soil, loose sandy.
	Timber, scattering cedar and pinon on W. 52 chs.
	Undergrowth, scattering sage, oose, brigham-tea and grass.

Latitudes, departures and closing errors.
and
General Description of T. 44 S., R. 2 E.

Lines designated	True bearings	Distances	Latitudes N	Latitudes S	Departures E	Departures W
		Chs.	Chs.	Chs.	Chs.	Chs.
East bdy	North	100.79	100.79	------	------	------
North bdy	West	481.92	------	------	------	481.92
West bdy	South	102.05	------	102.05	------	------
U-A bdy127M	N89°49'E	55.01	.17	------	55.01	------
128th M	N89°53'E	79.97	.16	------	79.97	------
129th M	"	79.78	.16	------	79.78	------
130th M	"	80.04	.16	------	80.04	------
131st M	"	80.11	.16	------	80.11	------
132nd M	N89°54'E	79.78	.14	------	79.78	------
133rd M	N89°49'E	27.85	.09	------	27.85	------
Convergency		------	------	------	------	.12
			101.83	102.05	482.54	482.04
				101.83		
		Error in latitude		0.22	482.04	
		Error in departure			0.50	

General Description of T. 44 S., R. 2 E.

This fractional township contains principally high rolling and broken mesa lands, along top of what is locally known as Cedar Mountain and forms a flat divide between the Paria river and Wahweap creek. The western portion of the tp. has a west and north-west exposure, draining into Judd hollow, which has a SW. course into Paria river. To the E. of divide, in secs. 2 and 11, the mountain or mesa land, breaks off abruptly for about 1000 ft. in elevation, over red sandstone ledges and breaks; under this break is found rolling, open, sandy land, draining NE. into Wahweap creek.

With the exception of the open land under the break, the township is covered with a scattering growth of scrub cedar and pinon timber.

Throughout the tp., a short undergrowth of sagebrush, yellow-top, greasewood, oose, brigham-tea and bunch-grass prevails.

The tp. affords fairly good grazing, but owing to its distance from water is not much used.

There is no water within this fractional tp.

There are no settlers in the tp., nor any indications of mineral found.

BOOK A-437

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. On T.44 S.,R. 2 E. BEGUN.	ENDED.	CAPACITY.
Lacell Bird			Head-Chainman
Richard Huntington			Rear- "
Wilfred Williams			Cornerman
Frank H. Clark			Ax & flagman

The above assistants were employed by me in the execution of surveys in T.44 S., R. 2 E.

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

Andrew Nelson

U. S. ~~Surveyor~~ Transitman

6—2761

CERTIFICATE TRANSITMAN.

FINAL ~~OATH~~ OF UNITED STATES ~~SURVEYOR~~.

I, Elliot Bird, Transitman, U. S. ~~Surveyor~~, do certify on honor ~~solemnly swear~~ that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the 1st day of Feb., 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 Retracement of the Utah - Arizona State boundary along S. bdy. of T.44 S.,R.2 E., and the Subdivision of T. 44 S., R. 2 E.

of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes and date diagram on page 1 as having been executed by me, ~~and under my direction~~, on dates as shown on date dia ~~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.

Elliot Bird

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,

Salt Lake City, Utah, Oct. 30, 1918.

The foregoing field notes of the ~~survey of~~ retracement of the Utah-Arizona State boundary along south boundary of Township No. 44 South, Range No. 2 East; and the survey of the subdivisional lines of Township No. 44 South, Range No. 2 East of the Salt Lake Base and Meridian, Utah;

executed by Elliot Bird

under ~~his~~ special instructions dated February 1, 1916, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the ~~surveys they describe~~ retracements and 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