

FIELD NOTES

OF THE SURVEY OF THE

The Second Guide Meridian West through Ts.33 North.

The 8th. Standard Parallel North through R.9 West,

The North Boundary of T.33 N.,R.9 W., and

The Subdivisions of T.33 N.,R.9 W.

Of the Gila and Salt River Base and Meridian,

In the State of Arizona

EXECUTED BY

Dupree R. Averill and

William E. Hiester

In the capacity of U. S. Surveyors, under Special Instructions dated October 12, 1916, issued by the United States Surveyor General to govern surveys included in Group No. 72 Arizona, which were approved by the Commissioner of the General Land Office, October 24, 1916, and Assignment Instructions dated April 3, 1917 and August 11, 1921.

Survey commenced May 5, 19 17

Survey completed November 16, 19 21

3617

3617

3617

Book "B"

Group 72-----Arizona.

BOOK 3617

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T. 33 N. R. 9 W.

Meridian West
Guide
2nd

— Lines surveyed under this group.

Book "B"

DATE DIAGRAM

T.33 N., R.9 W.

For dates of execution of survey of this line see Book "A"

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2nd Guide Meridian West

8th Standard Parallel North

Lines in black surveyed by Dupree R. Averill.

Lines in red surveyed by William E. Hiester.

Survey commenced May 5, 1917, and executed with Young and Sons light mountain transit NO. 8480, and Buff and Buff light mountain transits Nos. 9208, 10125, 9977 and 9225; each instrument is equipped with full vertical circle and Smith solar attachment; unless otherwise specified, all azimuth determinations are accomplished with the solar attachment.

Field Test of Instruments No. 8480 and 9208.

April 23, 1917: We examine the adjustments of the instruments and correct all errors; then, to test the solar apparatus, by comparing their indications, resulting from observations made during a.m. and p.m. hours, with a meridian established by Polaris observations, we proceed as follows:

April 24, 1917: In camp, near the $\frac{1}{2}$ cor. of secs. 4 & 33, T. 34 N., R. 9 W., G. and S. R. B. and M., lat. $36^{\circ}23'N.$, long. $113^{\circ}16\frac{1}{2}'W.$, at 5 hrs. 24.8 m., a.m., l.m.t., we observe Polaris at eastern elongation, making four observations, two each with the telescope in direct and reversed positions, and marking the mean point in the line thus determined on a peg driven firmly in the ground, 5 chs. N.

Azimuth of Polaris, at eastern elongation is $1^{\circ}24'41''$

At 8 hrs. 0 m., a.m., l.m.t., we lay off the azimuth of Polaris, $1^{\circ}24\frac{1}{2}'$ to the west, and mark the meridian thus determined by a tack driven in a peg set firmly in the ground, 5 chs. N.

At 9 hrs. 0 m., a.m., l.m.t., we set off $36^{\circ}23'N.$ on the lat. arcs; $12^{\circ}50\frac{1}{2}'N.$ on the decl. arcs; and determine a meridian with each solar, which we find to agree with the true meridian.

At apparent noon, with the lat. arcs unchanged, we observe the sun on the meridian with each solar. The resulting readings of the declination arcs are $12^{\circ}52\frac{1}{2}'N.$, which agree with the computed decl. of the sun.

At 3 hrs. 0 m., p.m., l.m.t., with the lat. arcs unchanged, we set off $12^{\circ}55'N.$ on the decl. arcs and determine a meridian with each solar, which we find to agree with the true meridian.

As all of the solar observations during the usual hours of solar work come within $1'30''$ of the true meridian, we conclude that the adjustments of the instruments are satisfactory.

Unless otherwise specified, all measurements are made with a Lufkin steel tape, 5 chs. in length, compared with a Lufkin standard steel tape and found correct. The measurements are made on the slope, the vertical angles determined, and the slope measurements properly reduced to true horizontal distances.

Field tests of Instruments Nos. 10125, 9977 and 9225.

Sept 18, 1921: We examine the adjustments of the instruments and correct all errors; then, to test the solar apparatus, by comparing their indications, resulting from observations made during a.m. and p.m. hours with a meridian established by Polaris observations, we proceed as follows:

At our camp, near the $\frac{1}{2}$ sec. bet. secs. 21 and 22, T. 34 N., R. 10 W., G. and S. R. B. and M., lat. $36^{\circ}20'N.$, long. $113^{\circ}22\frac{1}{2}'W.$, using the meridian established

as described in Book "F", at 9 hrs. 0 m., a.m., l.m.t., we set off $36^{\circ}20'N.$ on the lat. arcs; $1^{\circ}55\frac{1}{2}'N.$ on the decl. arcs; and determine a meridian with each solar, which we find to agree with the true meridian.

At apparent noon, with the lat. arcs unchanged, we observe the sun on the meridian with each solar. The resulting readings of the declination arcs are $1^{\circ}52\frac{1}{2}'N.$, which agrees with the computed decl. of the sun.

At 3 hrs. 0 m., p.m., l.m.t., with the lat arcs unchanged, we set off $1^{\circ}50'N.$ on the decl. arcs and determine a meridian with each solar which, we find to agree with the true meridian.

As all of the solar observations during the usual hours of solar work come within $1'30''$ of the true meridian, we conclude that the adjustments of the instruments are satisfactory.

Unless otherwise specified, all measurements are made with a Lufkin steel tape, 5 chs. in length, compared with a Lufkin standard steel tape and found correct. The measurements are made on the slope, the vertical angles determined and the slope measurements properly reduced to true horizontal distances.

Survey of the Second Guide Meridian West
Through Ts. 33 N.

Chains.

From the cor. of Ts. 33 and 34 N., Rs. 8 and 9 W., which is an iron post, described in Book "E", South bet. secs. 1 and 6. Over mountainous land, through scattering timber and undergrowth.

- Desc. 10 ft.
- 1.10 Gulch, 15 lks. wide, course SW. Asc. 30 ft.
- 3.20 Spur, slopes SW. Desc. 35 ft.
- 16.50 Wash, 70 lks. wide, course SW. Asc. 140 ft.
- 33.33 Spur, slopes NW. Desc.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

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

1917

From which

- A juniper, 8 ins. diam., brs. S.32 $\frac{1}{2}$ °E., 42 lks. dist., marked $\frac{1}{4}$ S6 BT.
- A juniper, 16 ins. diam., brs. N.20°W., 128 lks. dist., marked $\frac{1}{4}$ S1 BT.

Continue descent, 20 ft.

- 42.60 Asc. 50 ft.
- 49.60 Desc. 55 ft.
- 52.88 Wash, 30 lks. wide, course N.25°W. Asc. 30 ft.
- 54.25 Desc.
- 57.00 Same wash, 30 lks. wide, course N.20°E. Asc. 100 ft.
- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 1, 6, 7 and 12, marked on brass cap

T33N
R9W | R8W
S 1 | S 6

S12 | S 7
1917

From which

- A pinyon, 6 ins. diam., brs. N.31 $\frac{1}{2}$ °E., 52 lks. dist., marked T33N R8W S6 BT.
- A pinyon, 12 ins. diam., brs. S.63 $\frac{1}{2}$ °E., 123 lks. dist., marked T33N R8W S7 BT.
- A pinyon, 6 ins. diam., brs. S.50°W., 81 lks. dist., marked T33N R9W S12 BT.
- A juniper, 10 ins. diam., brs. N.66°W., 52 lks. dist., marked T33N R9W S1 BT.

Land, mountainous.
Soil, 4th rate.
Timber, pinyon and juniper.
Undergrowth, sagebrush, scrub oak.
Fair grazing.

South bet. secs. 7 and 12. Over mountainous land, through scattering timber and undergrowth.

- Asc. 170 ft.
- 19.33 Spur, slopes E. Desc. 60 ft.
- 23.60 Wash, 20 lks. wide, course N.35°E. Asc. 100 ft.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
S12 | S 7

1917

From which

Survey of the
Second Guide Meridian West Through Ts. 33 N.

BOOK 3617

chains.

52.40 A cedar, 18 ins. diam., brs. S.53 $\frac{1}{2}$ °E.,
39 lks. dist., marked $\frac{1}{4}$ S7 BT.
66.19 A pinyon, 10 ins. diam., brs. N.77°W.,
43 lks. dist., marked $\frac{1}{4}$ S12 BT.
72.15 Desc. 35 ft.
80.00 Wash, 5 lks. wide, course NW. Asc. 280 ft.
Spur, slopes NE. Continue ascent, 40 ft.
Desc. 50 ft.
Set an iron post, 3 ft. long, 2 ins. diam., 8 ins. in the
ground, in a mound of stone, for cor. of secs. 7, 12,
13 and 18, marked on brass cap

T33N	
R9W	R8W
S12	S 7
S13	S18
1917	

From which

A pinyon, 10 ins diam., brs. N.44°E.,
100 lks. dist., marked T33N R8W S7 BT.
A juniper, 10 ins. diam., brs. S.08°E.,
40 lks. dist., marked T33N R8W S18 BT.
A pinyon, 10 ins. diam., brs. S.78 $\frac{1}{2}$ °W.,
20 lks. dist., marked T33N R9W S13 BT.
A pinyon, 8 ins. diam., brs. N.24°W.,
131 lks. dist., marked T33N R9W S12 BT.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, juniper and pinyon.
Undergrowth, sagebrush.
Good grazing.

11.65 South bet. secs. 13 and 18.
13.60 Over mountainous land, through scattering timber and
40.00 undergrowth.
Desc. 90 ft.
Asc. 30 ft.
Spur, slopes SE. Desc. 165 ft.
Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the
ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$	
S13	S18
1917	

From which

A pinyon, 14 ins. diam., brs. N.70°E.,
167 lks. dist., marked $\frac{1}{4}$ S18 BT.
A juniper, 10 ins. diam., brs. N.42 $\frac{1}{2}$ °W.,
71 lks. dist., marked $\frac{1}{4}$ S13 BT.

48.95 Continue descent, 75 ft.
76.04 Thence over level land.
80.00 Enter rolling land, brs. E. and W.
Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the
ground, in a mound of stone, for cor. of secs. 13, 18,
19 and 24, marked on brass cap

T33N	
R9W	R8W
S13	S18
S24	S19
1917	

From which

A pinyon, 10 ins. diam., brs. N.89 $\frac{3}{4}$ °E.,
446 lks. dist., marked T33N R.8W S18 BT.

Survey of the
Second Guide Meridian West Through Ts. 33 N.

Chains.

	<p>A pinyon, 6 ins. diam., brs. S.70°E., 397 lks. dist., marked T33N R8W S19 BT. A juniper, 5 ins. diam., brs. S.31°W., 73 lks. dist., marked T33N R9W S24 BT. A juniper, 6 ins. diam., brs. N.40½°W., 141 lks. dist., marked T33N R9W S13 BT. Land, rolling and mountainous and level. Soil, rocky, 4th rate. Timber, juniper and pinyon. Undergrowth, sagebrush. Good grazing.</p>
	<p>South bet. secs. 19 and 24. Over rolling and mountainous land, through scattering timber and undergrowth. Asc. 4.40 Desc. 70 ft. 36.40 Leave timber, brs. E. and W. 40.00 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, in a mound of stone, for ¼ sec. cor., marked on brass cap</p> <p style="text-align: center;"> $\begin{array}{c} \frac{1}{4} \\ \text{S24} \mid \text{S19} \\ \hline 1917 \end{array}$ </p> <p>From which A juniper, 15 ins. diam., brs. N.17°E., 386 lks. dist., marked ¼S19 BT. A juniper, 18 ins. diam., brs. N.59°W., 218 lks. dist., marked ¼S24 BT.</p> <p>52.30 Continue descent, 260 ft. 80.00 Wash, 20 lks. wide, course SW. Continue descent, 260 ft. Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in a mound of stone, for cor. of secs. 19, 24, 25 and 30, marked on brass cap</p> <p style="text-align: center;"> $\begin{array}{c} \text{T33N} \\ \text{R9W} \mid \text{R8W} \\ \text{S24} \mid \text{S19} \\ \hline \text{S25} \mid \text{S30} \\ \hline 1917 \end{array}$ </p> <p>And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Land, rolling and mountainous. Soil, rocky, 4th rate. Timber, juniper and pinyon. Undergrowth, sagebrush. Fine grazing.</p>
	<p>South bet. secs. 25 and 30. Over mountainous land, through scattering timber and undergrowth. Desc. 215 ft. 22.93 Wash, 20 lks. wide, course SW. Thence over level land. 40.00 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, in a mound of stone, for ¼ sec. cor., marked on brass cap</p> <p style="text-align: center;"> $\begin{array}{c} \frac{1}{4} \\ \text{S25} \mid \text{S30} \\ \hline 1917 \end{array}$ </p>

Survey of the
Second Guide Meridian West Through Ts. 33 N.

Chains.

And raise a mound of stone, 2 ft. base, 1½ ft. high,
W. of cor.
52.90 Desc. 50 ft.
66.20 Wash, 25 lks. wide, course SW. Asc. 340 ft.
77.40 Spur, slopes NW. Enter scattering timber. Desc.
80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the
ground, and in a mound of stone, for cor. of secs.
25, 30, 31 and 36, marked on brass cap

T33N	
R9W	R8W
S25	S30
S36	S31
1917	

From which
A pinyon, 8 ins. diam., brs. N.76°E.,
132 lks. dist., marked T33N R8W S30 BT.
A pinyon, 12 ins. diam., brs. S.10°E.,
361 lks. dist., marked T33N R8W S31 BT.
A pinyon, 10 ins. diam., brs. S.57½°W.,
110 lks. dist., marked T33N R9W S36 BT.
A pinyon, 12 ins. diam., brs. N.42°W.,
188 lks. dist., marked T33N R9W S25 BT.

Land, level, rolling and mountainous.
Soil, rocky, 4th rate.
Timber, pinyon.
Undergrowth, sagebrush.
Fair grazing.

South bet. secs. 31 and 36.
Over mountainous land, through scattering timber and
undergrowth.
Desc. 75 ft.
13.50 Gulch, 15 lks. wide, course NW. Asc. 940 ft.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the
ground, for ¼ sec. cor., marked on brass cap

¼	
S36	S31
1917	

From which
A pinyon, 10 ins. diam., brs. East
51 lks. dist., marked ¼S31 BT.
A pinyon, 16 ins. diam., brs. S.45°W.,
76 lks. dist., marked ¼S36 BT.

Continue ascent, 55 ft.
43.00 Thence over nearly level land.
66.00 Rim, brs. NW. and SE. Desc. 285 ft.
80.00 Set an iron post, 3 ft. long, 3 ins. diam., 10 ins. in
the ground, in a mound of stone, for standard cor. of
Ts. 33 N., Rs. 8 and 9 W., marked on brass cap

SC	
T33N	
R9W	R8W
S36	S31

1917

From which
A pinyon, 10 ins. diam., brs. N.42°W.,
328 lks. dist., marked T33N R9W S36 SC BT.
No other trees within limits. Raise a mound of stone, 2
ft. base, 1½ ft. high, N. of cor.
Land, mountainous and nearly level.
Soil, rocky, 4th rate.

Survey of the
Second Guide Meridian West Through Ts. 33 N.

Chains.

Timber, juniper and pinyon.
Undergrowth, sagebrush.
Good grass.

Survey of the
8th Standard Parallel North Through Range 9 West.

Chains.

From the standard cor. of Ts. 33 N., Rs. 8 and 9 W.,
which is an iron post, hereinbefore described,
West on S. bdy. of sec. 36.
Over mountainous land, through scattering timber and
undergrowth.
Desc. 1100 ft.

22.24 (Mid point bet. the closing cor. of Ts. 32 N., Rs. 8 and
9 W., described in Book "K", and the closing cor. of
secs. 1 and 2, T. 32 N., R. 9 W., described in Book "K")
Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in
the ground, for $\frac{1}{4}$ sec. cor. of sec. 1, T. 32 N.,
R. 9 W., marked on brass cap

1S 1
1921

From which

A cedar, 12 ins. diam., brs. S. $12\frac{1}{2}^{\circ}$ E.,
82 lks. dist., marked $\frac{1}{4}$ S1 BT.

A cedar, 12 ins. diam., brs. S. $23\frac{1}{2}^{\circ}$ W.,
162 lks. dist., marked $\frac{1}{4}$ S1 BT.

Continue descent.

36.95 Wash, 25 lks. wide, course SW. Asc.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 24 ins.
in the ground, in a mound of stone, for standard $\frac{1}{4}$
sec. cor., marked on brass cap

SC
 $\frac{1}{4}$ S36

1917

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

Continue ascent, 110 ft.

47.05 Spur, slopes SW. Desc. 325 ft.

62.39 The closing cor. of secs. 1 and 2, T. 32 N., R. 9 W.,
which is an iron post, described in Book "K".

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the
ground, in a mound of stone, for standard cor. of
secs. 35 and 36, marked on brass cap

S C
T33N | R9W
S35 | S36

1917

From which

A pinyon, 12 ins. diam., brs. N. 70° W.,
119 lks. dist., marked T33N R9W S35 SC BT.

No other trees within limits. Raise a mound of stone,
2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, juniper and pinyon.

Undergrowth, sagebrush.

Good grazing.

West on S. bdy. sec. 35.
Over rolling land, through scattering timber and under-
growth.

6.40 Asc. 25 ft.
Top of bluff, brs. N. and S. Leave timber, brs. N. and S.
Desc. 270 ft.

13.71 Foot of bluff, brs. N. and S. Thence over nearly level
land.

Survey of the
8th Standard Parallel North Through Range 9 West.

Chains.

22.46 (Mid point between the closing cor. of secs. 1 and 2, and the closing cor. of secs. 2 and 3, T. 32 N., R. 9 W.) Set an iron post, 3 ft. long, 1 in. diam., on surface rock supported in a mound of stone with stone marked cross (X) alongside base of post, for $\frac{1}{4}$ sec. cor. of sec. 2, T. 32 N., R. 9 W., marked on brass cap

—
 $\frac{1}{4}$ S 2
1921

27.32 Enter wash, course SW.

38.00 Leave wash, course SW.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, and in a mound of stone, for standard $\frac{1}{4}$ sec. cor., marked on brass cap

SC
 $\frac{1}{4}$ S 35

1917

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

62.52 The closing cor. of secs. 2 and 3, T. 32 N., R. 9 W., which is an iron post, described in Book "K".

79.60 Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the ground, for witness cor. to standard cor. of secs. 34 and 35, marked on brass cap

S C
T33N | R9W
WC S34 | S35

1917

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

80.00 The true point for standard cor. of secs. 34 and 35 falls in Whitmore Wash, course S.20°W.

Land, rolling.

Soil, rocky, 4th rate.

Timber, juniper and pinyon.

Undergrowth, greasewood and sagebrush.

Good grazing.

From the true point for standard cor. of secs. 34 and 35,

West on S. bay. of sec. 34.

Across Whitmore Wash, course S.20°W., through scattering undergrowth.

0.35 Center of Whitmore Wash, 1 ch. wide, course S.20°W. Asc. gradual slope, 280 ft.

22.43 (Mid-point bet. the closing cor. of secs. 2 and 3 and the closing cor. of secs. 3 and 4, T. 32 N., R. 9 W.) Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bed rock, supported in a mound of stone with stone marked cross (X) alongside base of post, for $\frac{1}{4}$ sec. cor. of sec. 3, T. 32 N., R. 9 W., marked on brass cap

—
 $\frac{1}{4}$ S 3

1921

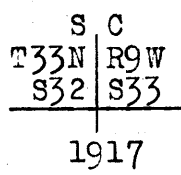
Survey of the
8th Standard Parallel North Through Range 9 West.

<p>Chains. 40.00</p>	<p>Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, and in a mound of stone, for standard $\frac{1}{4}$ sec. cor., marked on brass cap</p>
	<p style="text-align: center;">SC <u>$\frac{1}{4}$S34</u> 1917</p>
	<p>And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.</p>
<p>62.34</p>	<p>Continue gradual ascent, 445 ft. The closing cor. of secs. 3 and 4, T. 32 N., R. 9 W., which is an iron post, described in Book "K".</p>
<p>80.00</p>	<p>Set an iron post, 3 ft. long, 2 ins. diam., 16 ins. in the ground, in a mound of stone, for standard cor. of secs. 33 and 34, marked on brass cap</p>
	<p style="text-align: center;">S C T33N R9W <u>S33 S34</u> 1917</p>
	<p>And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.</p>
	<p>Land, rolling and hilly. Soil, rocky, 4th rate. Timber, juniper and pinyon. Undergrowth, black brush. Good grazing.</p>
<p>22.37</p>	<p>West on S. bdy. of sec. 33. Over mountainous land, through scattering undergrowth. Asc. 1010 ft. (Mid point bet. the closing cor. of secs. 3 and 4 and the closing cor. of secs. 4 and 5, T. 32 N., R. 9 W.) Set an iron post, 3 ft. long, 1 in. diam., on ledge rock, in a mound of stone, 5 ft. base, 3 ft. high, for $\frac{1}{4}$ sec. cor. of sec. 4, T. 32 N., R. 9 W., marked on brass cap.</p>
	<p style="text-align: center;"><u>$\frac{1}{4}$S 4</u> 1921</p>
	<p>From which A cedar, 10 ins. diam., brs. S. 17° E., 171 lks. dist., marked $\frac{1}{4}$S 4 BT A cedar, 10 ins. diam., brs. S. $33\frac{1}{4}^{\circ}$ E., 168 lks. dist., marked $\frac{1}{4}$S 4 BT.</p>
<p>32.49 40.00</p>	<p>Top of bluffs, brs. N. and S. Continue gradual ascent. Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, in a mound of stone, for standard $\frac{1}{4}$ sec. cor., marked on brass cap</p>
	<p style="text-align: center;">SC <u>$\frac{1}{4}$S33</u> 1917</p>
	<p>And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.</p>
<p>59.25 62.39</p>	<p>Continue ascent, 55 ft. Desc. 45 ft. The closing cor. of secs. 4 and 5, T. 32 N., R. 9 W., which is an iron post, described in Book "K".</p>
<p>71.79 80.00</p>	<p>Wash, 10 lks. wide, course N. Asc. 20 ft. Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground, in a mound of stone, for standard cor. of secs.</p>

Survey of the
8th Standard Parallel North Through Range 9 West.

Chains.

32 and 33, marked on brass cap

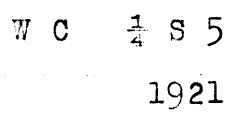


And raise a mound of stone, 2 ft. base, 1½ ft. high,
N. of cor.
Land, rolling.
Soil, rocky, 4th rate.
No timber.
Undergrowth, sagebrush.
Fair grazing.

West on S. bdy. of sec. 32.
Over rolling land, through scattering undergrowth.

20.52

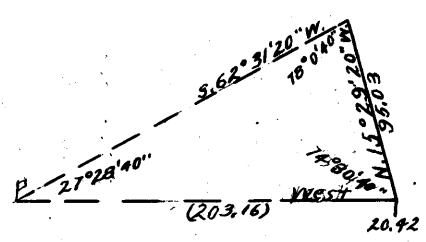
Set an iron post, 3 ft. long, 1 in. in diam., on surface
rock, supported in a mound of stone with stone 14 x 12
x 6 ins. marked cross (X) alongside base of post, for
witness cor. to the ¼ sec. cor. of sec. 5, T.32 N., R.
9 W., marked on brass cap



This witness cor. is 1.75 chs. East of true point for
¼ sec. cor. which falls on inaccessible cliffs.

20.62

Left rim of Parashont Wash, impassable bluffs, brs.
N.15°W. and S.15°E. Impossible to chain from this
point. Triangulate as follows:



Set a flag ahead on tangent line
and from the 20.42 ch. point
measure a base N.15°29'20\"W.
95.83 chs., from the N. end
of which, flag brs. S.62°31'
20\"W. The three angles of
the triangle are therefore
78°00'40\", 74°30'40\" and
27°28'40\", the sum of which
is 180°. The distance tri-
angulated is given by the

sine proportion:

$$\frac{X}{95.83} = \frac{\sin. 78^{\circ}00'40''}{\sin. 27^{\circ}28'40''}$$

log. 95.83	=	1.981501
log. sin. 27°28'40"	=	9.664082
		<u>2.317419</u>
log. sin. 78°00'40"	=	9.990422
log. X	=	2.307841
X	=	203.16 chs., which added

to 20.42 chs., gives 223.58 chs.

223.58

174.68 chs. from the tangent, thence East by chaining
48.90 chs. West of the standard
cor. of secs. 32 and 33, at foot of cliffs. Impossible

Survey of the
8th Standard Parallel North Through Range 9 West.

Chains.

48.90 to arrive any nearer to the point for standard $\frac{1}{4}$ sec. cor. of sec. 32.
Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground, in a mound of stone, 3 ft. base, 18 ins. high, with stone marked cross (X) at base of post, for witness cor. to standard $\frac{1}{4}$ sec. cor., marked on brass cap

SC
 $\frac{1}{4}$ S32 WC

1921

Thence

West on S. bdy. of sec. 32, continuing measurement. Desc. 480 ft.

62.15 The closing cor. of secs. 5 and 6, T. 32 N., R. 9 W., which is an iron post, described in Book "K".

70.00 Gulch, course SW. Asc. 20 ft.

73.80 Spur, slopes SW. Desc. 180 ft.

79.75 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, in a mound of stone, 18 ins. base, 10 ins. high, for witness cor. to standard cor. of secs. 31 and 32, marked on brass cap

W C
S C
T33N | R9W
S31 | S32

1921

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

80.00 The true point for standard cor. of secs. 31 and 32 falls where the cor. cannot be securely established.

Land, rolling and mountainous.

Soil, rocky, 4th rate.

No timber.

Undergrowth, greasewood, Spanish bayonet, scrub oak and cactus.

From the true point for standard cor. of secs. 31 and 32. West on S. bdy. of sec. 31.

Over broken land, in bottom of Parashont Wash, through scattering undergrowth.

Desc.

22.15 (40.00 chs. West of the closing cor. of secs. 5 and 6, T. 32 N., R. 9 W.) Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, in a mound of stone, 3 ft. base, 12 ins. high, for $\frac{1}{4}$ sec. cor. of sec. 6, T. 32 N., R. 9 W., marked on brass cap

$\frac{1}{4}$ S 6
1921

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

26.80 Center of wash, 1 ch. wide, course SE. Asc. in wash, 10 lks. wide, course E.

30.00 Leave wash, course E., from NW. Continue ascent.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for standard $\frac{1}{4}$ sec. cor., marked on brass cap

SC
 $\frac{1}{4}$ S31

1921

Survey of the
8th Standard Parallel North Through Range 9 West.

Chains.

- 50.90 And raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
- 59.98 Top of bluff, 100 ft. high, brs. N. and SE.
- 74.00 The closing cor. of Ts. 32 N., Rs. 9 and 10 W., which is an iron post, described in Book "K".
- 80.00 Bluff, 30 ft. high, brs. N. and S. Continue ascent.
- Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for standard cor. of Ts. 33 N., Rs. 9 and 10 W., marked on brass cap

SC
T33N
R10W | R9W
S36 | S31

1917

And raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
Land, broken.
Soil, rocky, 4th rate.
No timber.
Undergrowth, sagebrush, greasewood and black brush.
Good grazing.

Survey of the
North Boundary of T. 33 N., R. 9 W.

Chains.

From the cor. of Ts. 33 and 34 N., Rs. 8 and 9 W., which is an iron post, described in Book "E",
West on a random line, along the N. bdy. of T. 33 N., R. 9 W., setting temp. $\frac{1}{4}$ sec. and sec. cors. at intervals of 40.00 chs.; and at 479.96 chs., fall 28 lks. N. of the cor. of Ts. 33 and 34 N., Rs. 9 and 10 W., which is an iron post, described in Book "A". The falling answers to a correction of $0^{\circ}2'$, or 5 lks. S. per mile, counting from the NE. cor. of the Tp.
Therefore

14.50
27.64
39.96

From the cor. of Ts. 33 and 34 N., Rs. 9 and 10 W., N. $89^{\circ}58'E.$ on a true line, bet. secs. 6 and 31.
Over rolling land, through scattering timber and undergrowth.

Desc. 110 ft.
Thence over nearly level land.

Desc. 405 ft.
Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, and in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$$\begin{array}{r} \frac{1}{4} S31 \\ \frac{1}{4} S6 \\ \hline 1917 \end{array}$$

From which

A juniper, 8 ins. diam., brs. N. $35\frac{1}{2}^{\circ}W.$,
88 lks. dist., marked $\frac{1}{4}S31$ BT.

A juniper, 10 ins. diam., brs. S. $32^{\circ}W.$,
136 lks. dist., marked $\frac{1}{4}S6$ BT.

Continue descent.

43.00 Wash, 20 lks. wide, 3 ft. deep, course N. $50^{\circ}E.$ Asc. 585 ft.

79.96 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, and in a mound of stone, for cor. of secs. 5, 6, 31 and 32, marked on brass cap

$$\begin{array}{r} T34N R9W \\ S31 | S32 \\ \hline S6 | S5 \\ T33N \\ 1917 \end{array}$$

From which

A pinyon, 10 ins. diam., brs. N. $60\frac{1}{2}^{\circ}E.$,
67 lks. dist., marked T34N R9W S32 BT.

A juniper, 14 ins. diam., brs. S. $10^{\circ}E.$,
61 lks. dist., marked T33N R9W S5 BT.

A juniper, 6 ins. diam., brs. S. $63\frac{1}{2}^{\circ}W.$,
125 lks. dist., marked T33N R9W S6 BT.

A juniper, 8 ins. diam., brs. N. $63^{\circ}W.$,
159 lks. dist., marked T34N R9W S31 BT.

Land, rolling and nearly level and mountainous.
Soil, rocky, 4th rate.
Timber, juniper and pinyon.
Undergrowth, sagebrush and cactus.

27.00
28.25
38.50
40.00

N. $89^{\circ}58'E.$ on a true line, bet. secs. 5 and 32.
Over mountainous land, through scattering timber and undergrowth.

Desc. 560 ft.

Asc. 10 ft.

Desc. 100 ft.

Leave timber, brs. NW. and SE.

Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$$\begin{array}{r} \frac{1}{4} S32 \\ \frac{1}{4} S5 \\ \hline 1917 \end{array}$$

Survey of the
North Boundary of T. 33 N., R. 9 W.

Chains

And raise a mound of stone, 2 ft. base, 1½ ft. high,
N. of cor.
Asc. 105 ft.
51.90 Spur, slopes N.10°E. Desc. 100 ft.
58.73 Whitmore Wash, 40 lks. wide, 4 ft. deep, course S.50°E.
Thence over rolling land.
65.83 Road, brs. N.50°W. and S.50°E.
80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in
the ground, for cor. of secs. 4, 5, 32 and 33, marked
on brass cap

T34N	R9W
S32	S33
S 5	S 4
T33N	
1917	

And raise a mound of stone, 2 ft. base, 1½ ft. high,
N. of cor.
Land, mountainous and rolling.
Soil, rocky, 4th rate.
Timber, juniper and pinyon.
Undergrowth, sagebrush and cactus.

20.80 N.89°58'E. on a true line, bet. secs. 4 and 33.
Over mountainous land, through scattering undergrowth.
Asc. 310 ft.
40.00 Ridge, brs. N.20°W. and S.20°E. Desc. 320 ft., through
scattering timber.
Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the
ground, and in a mound of stone, for ½ sec. cor.,
marked on brass cap

½	S33
¼	S 4
1917	

40.14 And raise a mound of stone, 2 ft. base, 1½ ft. high,
N. of cor.
80.00 Wash, 15 lks. wide, 6 ft. deep, course SE. Asc. 615 ft.
Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the
ground, in a mound of stone, for cor. of secs. 3, 4,
33 and 34, marked on brass cap

T34N	R9W
S33	S34
S 4	S 3
T33N	
1917	

And raise a mound of stone, 2 ft. base, 1½ ft. high,
N. of cor.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, juniper and pinyon.
Undergrowth, sagebrush and cactus.

16.00 N.89°58'E. on a true line, bet. secs. 3 and 34.
29.65 Over rolling and mountainous land, through scattering
40.00 timber and undergrowth.
Desc. 80 ft.
Thence over nearly level land.
Desc. 95 ft.
Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in
the ground, and in a mound of stone, for ½ sec. cor.,
marked on brass cap

Survey of the
North Boundary of T. 33 N., R. 9 W.

Chains.

$\frac{1}{4}$ S34
S 3
1917

- And raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
- Continue descent, 215 ft.
- 60.15 Wash, 40 lks. wide, 12 ft. deep, course SE. Thence over nearly level land.
- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 2, 3, 34 and 35, marked on brass cap

T34N R9W
S34 | S35
S 3 | S 2
T33N
1917

From which
 A juniper, 16 ins. diam., brs. N.19½°E.,
 123 lks. dist., marked T34N R9W S35 BT.
 No other trees within limits. Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
 Land, nearly level, rolling and mountainous.
 Soil, rocky, 4th rate
 Timber, juniper, cedar and pinyon.
 Undergrowth, sagebrush and cactus.

- N.89°58'E. on a true line, bet. secs. 2 and 35.
 Over nearly level land, through scattering timber and undergrowth.
- 13.15 Desc. 50 ft.
- 15.24 Wash, 30 lks. wide, 10 ft. deep, course S.60°W. Asc. 50 ft.
- 21.45 Leave nearly level land, enter mountainous land, brs. NE. and SW. Asc. 410 ft.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, in a mound of stone, for ¼ sec. cor., marked on brass cap

$\frac{1}{4}$ S35
S 2
1917

- And raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
- Continue ascent, 35 ft.
- 40.90 Desc. 130 ft.
- 59.10 Wash, 30 lks. wide, 40 ft. deep, course N.30°W. Asc. 55 ft.
- 62.45 Thence over nearly level land.
- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 1, 2, 35 and 36, marked on brass cap

T34N R9W
S35 | S36
S 2 | S 1
T33N
1917

From which
 A cedar, 6 ins. diam., brs. N.24½°E.,
 327 lks. dist., marked T34N R9W S36 BT.
 A juniper, 8 ins. diam., brs. S.23°E.,
 127 lks. dist., marked T33N R9W S1 BT.
 A juniper, 4 ins. diam., brs. S.21½°W.,
 262 lks. dist., marked T33N R9W S2 BT.
 A juniper, 6 ins. diam., brs. N.81°W.,
 110 lks. dist., marked T34N R9W S35 BT.

Survey of the
North Boundary of T. 33 N., R. 9 W.

Chains.

Land, nearly level and mountainous.
Soil, rocky, 4th rate.
Timber, juniper, cedar and pinyon.
Undergrowth, sagebrush and cactus.

40.00 N. 89° 58' E. on a true line, bet. secs. 1 and 36.
Over nearly level land, through scattering timber and
undergrowth.
Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the
ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

$$\frac{\frac{1}{4} S 36}{S 1} \\ 1917$$

48.00 From which
Asc. 150 ft.
80.00 A pinyon, 12 ins. diam., brs. N. 18 $\frac{1}{2}$ ° E.,
19 lks. dist., marked $\frac{1}{4}$ S 36 BT.
A pinyon, 6 ins. diam., brs. S. 56° W.,
65 lks. dist., marked $\frac{1}{4}$ S 1 BT.

80.00 The cor. of Ts. 33 and 34 N., Rs. 8 and 9 W.
Land, nearly level and rolling.
Soil, rocky, 4th rate.
Timber, pinyon.
Undergrowth, sagebrush and cactus.

Boundaries of T. 33 N., R. 9 W.

Latitudes, departures and closing errors.

Line designated.	True bearing.	Dist. chs.	Latitudes.		Departures.	
			N. chs.	S. chs.	E. chs.	W. chs.
South Boundary. (8th Std. Par. North).	West.	480.00				480.00
West Boundary.	North.	480.00	480.00			
North Boundary.	N.89°58'E.	479.96	.28		479.96	
East Boundary. (2nd Guide Mer. West.)	South.	480.00		480.00		
Convergency.					.53	
Totals			480.28	480.00	480.49	480.00
<u>Error in latitude</u>			480.00		480.00	
<u>Error in departure</u>			0.28			0.49

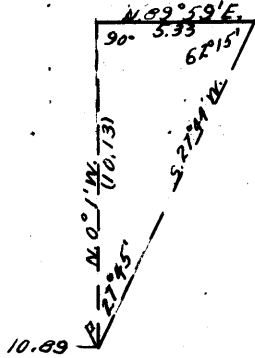
Survey of the
Subdivision of T. 33 N., R. 9 W.

Chains.

From the standard cor. of secs. 35 and 36, on the S. bdy. of Tp., which is an iron post, hereinbefore described, N.0°1'W. bet. secs. 35 and 36. Over broken land, through scattering timber and undergrowth.

10.89

Impossible to chain from this point. Set a flag ahead on line, from which I measure a base N.89°59'E. 5.33 chs., from the E. end of which, flag at the 10.89 ch. point brs. S.27°44'W. The three angles of the triangle are therefore 90°, 62°15' and 27°45', the sum of which is 180°. The distance triangulated is given by $\tan. 62^\circ 15' \times 5.33 = 1.90069 \times 5.33 = 10.13$ chs., which added to 10.89 chs., gives 21.02 chs. The approximate topography is as follows:



13.30

Rim rock, brs. E. and SW., 100 ft. high.

20.70

Rim of cliffs, brs. NW. and SE.

21.02

Triangulation point. Thence by chaining, descending 115 ft.

31.00

Cliffs, 50 ft. high, br. NE. and SW.

34.00

Wash, course SW. Leave timber, brs. E. and SW.

40.00

Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground, in a mound of stone, 4 ft. base, 26 ins. high, with stone marked cross (X) at base of post, marked on brass cap for $\frac{1}{4}$ sec. cor.,

$\frac{1}{4}$
S35 | S36
1921

42.70

Wash, 40 lks. wide, course SE.

52.70

Enter same wash, course SW., from N.

60.90

Leave wash, course S., from NE. Rim rock, 20 ft. high, brs. NE. and S.

65.00

Same wash, course SE., from NE., 60 lks. wide,

68.50

Enter lava flow, brs. NE. and SW.

71.50

Wash, 20 lks. wide, course W.

80.00

Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground, in a mound of stone, $3\frac{1}{2}$ ft. base, 2 ft. high, for cor. of secs. 25, 26, 35 and 36, marked on brass cap

T33N R9W
S26 | S25
S35 | S36
1921

And raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor.

Land, broken.

Soil, rocky, 4th rate.

Timber, cedar and pinyon.

Undergrowth, sagebrush, scrub oak, greasewood, Spanish bayonet and cactus.

40.00

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

80.20

Set temp. $\frac{1}{4}$ sec. cor. Fall 2 lks. S. of the cor. of secs. 25, 30, 31 and 36, on the E. bdy. of Tp., which is an iron post, hereinbefore described.

Thence

S.89°59'W. on a true line, bet. secs. 25 and 36.

Over broken and mountainous land, through scattering undergrowth.

Desc. 620 ft.

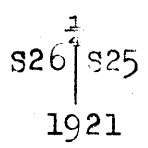
Survey of the
Subdivision of T. 33 N., R. 9 W.

Chains.
25.10 Draw, course NW. Asc. 25 ft.
27.00 Spur, slopes N. Desc. 170 ft.
40.10 Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground, 26 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., with stone marked cross (X) at base of post, marked on brass cap

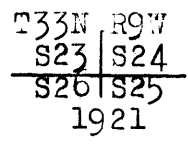
$\frac{1}{4}$ $\frac{S25}{S36}$
 1921

45.70 Continue descent, 245 ft.
Center of wash, 1 ch. wide, course SW. Enter lava flow, brs. NE. and SW. Continue descent.
57.90 Dike, brs. NE. and SW., 10 ft. high.
77.80 Dike, brs. NE. and SW.
80.20 The cor. of secs. 25, 26, 35 and 36.
Land, broken and mountainous.
Soil, rocky, 4th rate.
Timber, none.
Undergrowth, sagebrush, Spanish bayonet and cactus.

N.0°1'W. bet. secs. 25 and 26.
Over rolling broken lava flow, through scattering undergrowth.
0.70 Wash, 20 lks. wide, course W. Asc. 40 ft.
11.80 Wash, course W.
27.00 Dike, brs. E. and SW. Desc. 30 ft.
31.80 Wash, 30 lks. wide, course SW. Asc. 35 ft.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground, in a mound of stone, 4 ft. base, 2 ft. high, for $\frac{1}{4}$ sec. cor., marked on brass cap



And raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor.
57.00 Dike, 16 ft. high, brs. NE. and SW.
60.00 Asc. 60 ft.
67.40 Spur, slopes W. Desc. 20 ft.
80.00 Set an iron post, 3 ft. long, 2 ins. diam., 8 ins. in the ground, in a mound of stone, 4 ft. base, 22 ins. high, for cor. of secs. 23, 24, 25 and 26, marked on brass cap



And raise a mound of stone, 3 ft. base, 2 $\frac{1}{2}$ ft. high, W. of cor.
Land, rolling.
Soil, lava, 4th rate.
No timber.
Undergrowth, Spanish bayonet and cactus.

40.00 N.89°59'E. on a random line, bet. secs. 24 and 25.
Set temp. $\frac{1}{4}$ sec. cor.
80.16 Fall 19 lks. N. of the cor. of secs. 19, 24, 25 and 30, on the E. bdy. of Tp., which is an iron post, hereinbefore described.

Survey of the
Subdivision of T. 33 N., R. 9 W.

Chains.

Thence
N.89°53'W. on a true line, bet. secs. 24 and 25.
Over mountainous land, through scattering undergrowth.
Desc. 355 ft.
11.15 Dike, 50 ft. high, brs. E. and N.80°W. Continue descent.
38.75 Gulch, course S.75°W. Continue descent.
40.08 Set an iron post, 3 ft. long, 1 in. diam., 34 ins. in a
mound of stone, 4 ft. base, for $\frac{1}{4}$ sec. cor., with
stone marked cross (X) at base of post, marked on
brass cap

$\frac{1}{4}$ S24
S25
1921

48.65 Continue descent, 380 ft.
Dike, brs. E. and SW.
53.65 Draw, course N.80°W.
77.15 Dike, brs. E. and W. Continue descent.
80.16 The cor. of secs. 23, 24, 25 and 26.
Land, broken and mountainous.
Soil, lava, 4th rate.
Timber, none.
Undergrowth, cactus and Spanish bayonet.

N.0°1'W. bet. secs. 23 and 24.
Over rolling land, lava flow, through scattering timber
and undergrowth.

Asc. 10 ft.

5.10 Spur, slopes W. Desc. 30 ft.
12.00 Draw, course W. Asc. 45 ft.
17.60 Leave lava flow, brs. E. and W. Asc. 65 ft.
23.00 Spur, slopes SW. Desc. 100 ft.
29.70 Draw, course W. Asc. 55 ft.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the
ground, in a mound of stone, 2 ft. high, 3 ft. base,
with stone marked cross (X) at base of post, for $\frac{1}{4}$
sec. cor., with brass cap marked

$\frac{1}{4}$
S23 | S24
1921

41.20 Gulch, 15 ft. deep, 1 ch. wide, course W. Asc.
49.00 Spur, slopes W. Desc. 55 ft.
54.00 Draw, course NW. Asc.
65.60 Spur, slopes SW. Desc. 90 ft.
74.00 Draw, course W. Thence along W. slope.
80.00 Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the
30 ins. in a mound of stone, 6 ft. base, with stone
marked cross (X) at base of post, for cor. of secs.
13, 14, 23 and 24, marked on brass cap

T33N R9W
S14 | S13
S23 | S24
1921

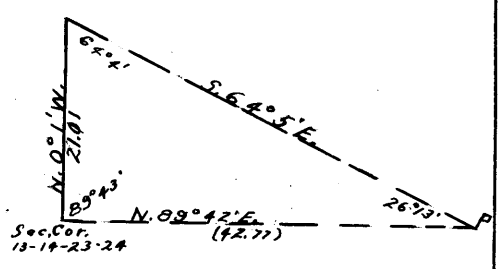
Land, rolling.
Soil, lava flow, 4th rate; rocky, 4th rate.
Timber, very scattering cedar.
Undergrowth, sagebrush, Spanish bayonet and cactus.

S.89°53'E. on a random line, bet. secs. 13 and 24.

Survey of the
Subdivision of T. 33 N., R. 9 W.

Chains.

Impracticable to chain from the cor. of secs. 13, 14, 23 and 24. Set a flag ahead on a bearing N.89°42'E., and from the cor. of secs. 13, 14, 23 and 24, measure a base N.0°1'W. 21.01 chs., from the N. end of which, flag brs. S.64°5'E. The three angles of the triangle are therefore 64°4', 26°13' and 89°43', the sum of which is 180°. The distance triangulated is given by the sine proportion:



$$\frac{X}{21.01} = \frac{\sin. 64^{\circ}4'}{\sin. 26^{\circ}13'}$$

log. 21.01	=	1.322426
log. sin. 26°13'	=	9.645193
log. sin. 64°4'	=	1.677233
log. X	=	9.953906
X	=	1.631139

42.77 chs. Thence south 0.31 chs., to the random line, 42.77 chs. S.89°53'E. of the cor. of secs. 13, 14, 23 and 24.

- 40.00 Thence N.89°53'W. 2.77 chs. to Set temp. 1/4 sec. cor. Continue S.89°53'E. on a random line, bet. secs. 13 and 24.
- 80.26 Intersect the cor. of secs. 13, 18, 19 and 24, on the E. bdy. of Tp., which is an iron post, hereinbefore described. Thence N.89°53'W. on a true line, bet. secs. 13 and 24. Over mountainous and rolling land, through scattering timber and undergrowth. Desc. 45 ft.
- 15.45 Draw, course S.
- 25.25 Draw, course S. Asc. 45 ft.
- 35.35 Ridge, brs. N. and S. Desc. 100 ft.
- 40.13 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap

1/4 S13
1/4 S24
1921

From which
A pinyon, 16 ins. diam., brs. N.57°E., 56 lks. dist., marked 1/4 S13 BT.
A pinyon, 10 ins. diam., brs. S.19°W., 35 lks. dist., marked 1/4 S24 BT.

- 80.26 Thence by triangulation, descending 1010 ft. The cor. of secs. 13, 14, 23 and 24. Land, mountainous and rolling. Soil, rocky, 3rd rate. Timber, cedar and pinyon. Undergrowth, sagebrush, Spanish bayonet and cactus.

- 2.30 N.0°1'W. bet. secs. 13 and 14. Over broken land, through scattering undergrowth.
- 14.50 Draw, course W. Thence along W. slope.
- 19.50 Draw, course NW.
- 20.50 Draw, course NW. Asc. Spur, slopes W. Desc.
- 31.10 Draw, course NW.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground, in a mound of stone, 3 ft. base, 2 ft. high,

Survey of the
Subdivision of T. 33 N., R. 9 W.

Chains.

with stone marked cross (X) at base of post, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
S14 | S13
1921

57.30
80.00

Draw, course W.
Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground, in a mound of stone, 3 ft. base, 2 ft. high, with stone marked cross (X) at base of post, for cor. of secs. 11, 12, 13 and 14, marked on brass cap

T33N | R9W
S11 | S12

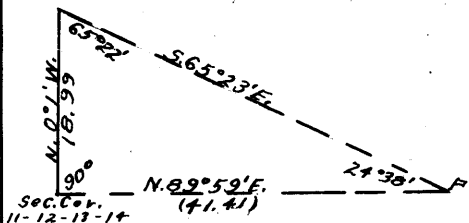
S14 | S13
1921

From which
A cedar, 16 ins. diam., brs. N.28°W.,
409 lks. dist., marked T33N R9W S11 BT.

Land, broken.
Soil, rocky, 3rd rate.
No timber.
Undergrowth, sagebrush, Spanish bayonet and cactus.

S.89°53'E. on a random line, bet. secs. 12 and 13.

Impracticable to chain from the cor. of secs. 11, 12, 13 and 14. Triangulate as follows: Set a flag ahead on a bearing N.89°59'E., and from the cor. of secs. 11, 12, 13 and 14, measure a base N.0°1'W. 18.99 chs., from the N. end of which, flag brs. S.65°23'E. The three angles of the triangle are therefore 90°, 65°22' and 24°38', the sum of which is 180°. The



distance triangulated is given by $\tan. 65^{\circ}22' \times 18.99 = 2.18084 \times 18.99 = 41.41$ chs. Thence South 0.10 chs., and N.89°53'W. 1.41 chs. to

40.00

Set temp. $\frac{1}{4}$ sec. cor.
Thence S.89°53'E. on a random line, bet. secs. 12 and 13.

80.22

Fall 14 lks. S. of the cor. of secs. 7, 12, 13 and 18, on the E. bdy. of Tp., which is an iron post, hereinbefore described.

Thence
N.89°59'W. on a true line, bet. secs. 12 and 13.
Over mountainous land, through scattering timber and undergrowth.

Asc. 95 ft.

3.70

Spur, slopes SE. Desc. 220 ft.

18.50

Head of draw, course SW. Asc. 50 ft.

32.80

Desc. 130 ft.

37.00

Rim rock, brs. N. and S. Desc.

40.11

Set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the ground, 32 ins. in a mound of stone, 4 ft. base, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$ S12
S13
1921

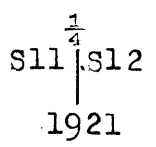
From which
A pinyon, 16 ins. diam., brs. N.18 $\frac{3}{4}$ °W.,
133 lks. dist., marked $\frac{1}{4}$ S12 BT.
A pinyon, 12 ins. diam., brs. S.5 $\frac{1}{2}$ °E.,
145 lks. dist., marked $\frac{1}{4}$ S13 BT.

Survey of the
Subdivision of T. 33 N., R. 9 W.

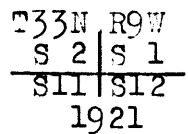
Chains.

80.22 Thence by triangulation, as hereinbefore described, descending 1100 ft.
The cor. of secs. 11, 12, 13 and 14.
Land, mountainous.
Soil, rocky, 3rd rate.
Timber, cedar and pinyon.
Undergrowth, sagebrush, Spanish bayonet and cactus.

3.30 N.0°1'W. bet. secs. 11 and 12.
10.60 Over broken and mountainous land, through scattering timber and undergrowth.
15.00 Desc. 30 ft.
40.00 Draw, course W.
Wash, 50 lks. wide, course SW.
Asc. 400 ft.
Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground, in a mound of stone, 3 ft. base, 2 ft. high, for $\frac{1}{4}$ sec. cor., marked on brass cap



From which
A pinyon, 14 ins. diam., brs. N.87 $\frac{1}{2}$ °E.,
207 lks; dist., marked $\frac{1}{4}$ S12 BT.
A cedar --half dead--, --ins. diam., brs.
N.29 $\frac{3}{4}$ °W., 58 lks. dist., marked $\frac{1}{4}$ S11 BT.
Asc. 175 ft.
45.00 Ridge, brs. E. and W. Desc. 215 ft.
54.40 Draw, course NW. Asc. 105 ft.
63.70 Spur, slopes W. Desc 260 ft.
72.50 Draw, course SW. Asc. 230 ft.
80.00 Set an iron post, 3 ft. long, 2 ins. diam., 16 ins. in the ground, 20 ins. in a mound of stone, for cor. of secs. 1, 2, 11 and 12, marked on brass cap



From which
A pinyon, 18 ins. diam., brs. N.83°E.,
247 lks. dist., marked T33N R9W S1 BT.
A pinyon, 8 ins. diam., brs. S.88 $\frac{1}{2}$ °E.,
246 lks. dist., marked T33N R9W S12 BT.
A cedar, 20 ins. diam., brs. S.87 $\frac{1}{2}$ °W.,
179 lks. dist., marked T33N R9W S11 BT.
A pinyon, 12 ins. diam., brs. N.35 $\frac{1}{2}$ °W.,
159 lks. dist., marked T33N R9W S2 BT.
Land, mountainous and broken.
Soil, rocky, 4th rate
Timber, cedar and pinyon.
Undergrowth, sagebrush, cat claw, cactus and Spanish dagger.

40.00 S.89°59'E. on a random line, bet. secs. 1 and 12.
80.08 Set temp. $\frac{1}{4}$ sec. cor.
Intersect the cor. of secs. 1, 6, 7 and 12, on the E. bdy. of Tp., which is an iron post, hereinbefore described.
Thence
N:89°59'W. on a true line, bet. secs. 1 and 12.

Survey of the
Subdivision of T. 33 N., R. 9 W.

Chains.
Over mountainous land, through scattering timber and undergrowth.
Asc. 270 ft.
11.10 Spur, slopes SE. Desc. 155 ft.
30.10 Spur, slopes SW. Continue descent.
40.04 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground, in a mound of stone, 3 ft. base, 16 ins. high, with stone marked cross (X) at foot of post, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$ S 1
 S12
1921

Continue descent, 220 ft.
65.08 Head of draw, course NW. Asc.
73.10 Ridge, brs. NW. and SE. Desc. 95 ft.
75.30 Rim rock, brs. NW. and SE.
80.08 The cor. of secs. 1, 2, 11 and 12.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, cedar and pinyon.
Undergrowth, sagebrush, Spanish bayonet, and cactus.

40.00 N.0°1'W. on a random line, bet. secs. 1 and 2.
Set temp. $\frac{1}{4}$ sec. cor.
79.58 Fall 33 lks. W. of the cor. of secs. 1, 2, 35 and 36, on the N. bdy. of Tp., which is an iron post, hereinbefore described.
Thence
S.0°13'W. on a true line, bet. secs. 1 and 2.
Over ~~rolling~~ level land, through scattering timber and undergrowth.
4.60 Wash, 20 lks. wide, course NW.
18.70 Wash, 15 lks. wide, course NW.
19.80 Wash, 20 lks. wide, course NW.
39.58 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
S 2 | S 1
1921

From which

A pinyon, 18 ins. diam., brs. N.84 $\frac{1}{2}$ °E.,
72 lks. dist., marked $\frac{1}{4}$ S1 BT.
A cedar, 18 ins. diam., brs. S.32°W.,
92 lks. dist., marked $\frac{1}{4}$ S2 BT.
39.80 Wash, 20 lks. wide, course W.
43.60 Wash, 10 lks. wide, course NW.
47.70 Wash, 20 lks. wide, course W.
50.80 Wash, course NW. Thence over broken land. Asc. 50 ft.
67.90 Spur, slopes NE. Thence over rolling mesa.
74.60 Ridge, brs. NW. and SE. Desc. 115 ft.
79.58 The cor. of secs. 1, 2, 11 and 12.
Land, level, broken and rolling.
Soil, gumbo, rocky, 2nd and 4th rate.
Timber, pinyon and cedar.
Undergrowth, sagebrush, cactus, and Spanish dagger.

From the witness cor. to ~~standard~~ standard cor. of secs. 34 and 35, which is an iron post, hereinbefore described, established 0.40 chs. East of the true point for standard cor.,

Survey of the
Subdivision of T. 33 N., R. 9 W.

Chains.

2.00 N.0°1'W. on offset line, through sec. 35.
Over rolling land, through dense undergrowth.
Thence West 0.40 chs. to true line, and continue
N.0°1'W. bet. secs. 34 and 35, along right bank of Whit-
more Wash.

10.00 Enter lava flow, brs. NW. and SE.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the
ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked
on brass cap

$\frac{1}{4}$
 S34 | S35
 1921

And raise a mound of stone, 3 ft. base, 2 $\frac{1}{2}$ ft. high, W.
of cor.

44.00 Center of wash, 2 chs. wide, course SE.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 16 ins. in the
ground, in a mound of stone, 4 ft. base, 2 ft. high,
with stone marked cross (X) at base of post, for cor.
of secs. 26, 27, 34 and 35, marked on brass cap

T33N R9W
 S27 | S26
 S34 | S35
 1921

Cor. falls on E. edge of crater, 200 by 100 ft.

Land, rolling.
Soil, lava flow, and rocky, 4th rate.
No timber.
Undergrowth, sagebrush and greasewood.

40.00 East on a random line, bet. secs. 26 and 35.
Set temp. $\frac{1}{4}$ sec. cor.

80.00 Intersect N. and S. line, 5 lks. N. of the cor. of secs.
25, 26, 35 and 36.
Thence
N.89°58'W. on a true line, bet. secs. 26 and 35.
Over rolling and broken land, through scattering under-
growth.

27.40 Desc. 220 ft.
Wash, 10 lks. wide, 20 ft. deep, course NW. Continue
descent.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the
ground, in a mound of stone, 3 ft. base, 1 $\frac{1}{2}$ ft. high,
for $\frac{1}{4}$ sec. cor., marked on brass cap

S26
 $\frac{1}{4}$ S35
 1921

And raise a mound of stone, 4 ft. base, 3 ft. high,
N. of cor.

Continue descent, 240 ft.

57.50 Wash, 20 lks. wide, course NW. Continue descent, 150 ft.

75.00 Asc. 30 ft.

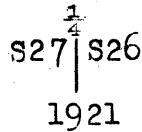
80.00 The cor. of secs. 26, 27, 34 and 35.
Land, rolling and broken.
Soil, lava flow; 4th rate.
Timber, none.
Undergrowth, greasewood.

32.40 N.0°1'W. bet. secs. 26 and 27.
Over rolling lava beds, through scattering undergrowth.
Thence along W. slope.

Survey of the
Subdivision of T. 33 N., R. 9 W.

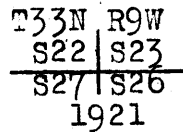
Chains.
40.00

Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground, in a mound of stone, 3 ft. base, 1½ ft. high, with stone marked cross (X) alongside, for ¼ sec. cor., marked on brass cap



42.20
67.00
80.00

Asc.
Spur, slopes NW. Desc.
Wash, 10 lks. wide, course W.
Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground, in a mound of stone, 4 ft. base, 3 ft. high, with stone marked cross (X) alongside, for cor. of secs. 22, 23, 26 and 27, marked on brass cap



Land, rolling.
Soil, rocky, 4th rate; lava flow.
Timber, none.
Undergrowth, sagebrush.

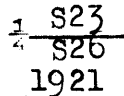
40.00
80.06

S.89°58'E. on a random line, bet. secs. 23 and 26.
Set temp. ¼ sec. cor.
Intersect N. and S. line, 14 lks. N. of the cor. of secs. 23, 24, 25 and 26.

Thence
N.89°52'W. on a true line, bet. secs. 23 and 26.
Over rolling land, lava flow, through scattering undergrowth. Desc.

8.80
40.03

Wash, 20 lks. wide, course NW. Continue descent.
Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground, in a mound of stone, for ¼ sec. cor., marked on brass cap



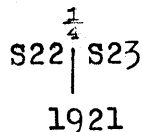
And raise a mound of stone, 4 ft. base, 3½ ft. high, N. of cor.

80.06

The cor. of secs. 22, 23, 26 and 27.
Land, rolling.
Soil, lava flow, 4th rate.
Timber, none.
Undergrowth, sagebrush, and Spanish bayonet.

18 20
23.20
23.80
40.00

N.0°1'W. bet. secs. 22 and 23.
Over rolling land, lava flow, through scattering undergrowth.
Enter level land, brs. NE. and SW. Leave lava flow.
Center of wash, 1.20 chs. wide, course SW.
Asc. gradual slope.
Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground, in a mound of stone, 3 ft. base, 1½ ft. high, with stone marked cross (X) alongside, for ¼ sec. cor., marked on brass cap



Survey of the
Subdivision of T. 33 N., R. 9 W.

Chains.	
59.60	Wash, 20 lks. wide, course SE.
63.20	Wash, 10 lks. wide, course SE.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, marked on brass cap
	$\begin{array}{r} T33N R9W \\ S15 S14 \\ \hline S22 S23 \\ 1921 \end{array}$
	And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, rolling and level.
	Soil, lava flow, 4th rate; and rocky, 3rd rate.
	Timber, none.
	Undergrowth, sagebrush and Spanish bayonet.
40.00	S. 89°52'E. on a random line, bet. secs. 14 and 23.
79.92	Set temp. ¼ sec. cor. Intersect N. and S. line, 9 lks. S. of the cor. of secs. 13, 14, 23 and 24.
	Thence
	N. 89°56'W. on a true line, bet. secs. 14 and 23.
	Over rolling land, through scattering undergrowth.
	Desc. gradual slope, 415 ft.
39.96	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap
	$\begin{array}{r} \frac{1}{4} S14 \\ \hline S23 \\ 1921 \end{array}$
	And raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Thence over level land.
58.00	Wash, 20 lks. wide, course S.
64.10	Whitmore Wash, 70 lks. wide, course S. Asc. 1000.
79.92	The cor. of secs. 14, 15, 22 and 23.
	Land, level and rolling.
	Soil, gravelly loam, 2nd and 3rd rates.
	Timber, none.
	Undergrowth, sagebrush, Spanish bayonet and cactus.
	N. 0°1'W. bet. secs. 14 and 15
	Over rolling land, through scattering undergrowth.
	Asc. 125 ft.
14.00	Spur, slopes SE. Desc. 50 ft.
20.00	Thence over level land.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor., marked on brass cap
	$\begin{array}{r} \frac{1}{4} \\ S15 S14 \\ \hline 1921 \end{array}$
	And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
45.00	Center of wash, 90 lks. wide, course SE.
63.10	Center of Whitmore Wash, 3.50 chs. wide, course SE.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 14 ins. in the ground, 16 ins. in a mound of stone, for cor. of secs. 10, 11, 14 and 15, marked on brass cap

BOOK 3617

Survey of the
Subdivision of T. 33 N., R. 9 W.

Chains.

T33N	R9W
S10	S11
S15	S14
1921	

And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
W. of cor.
Land, level and rolling.
Soil, rocky, 3rd rate.
No timber.
Undergrowth, sagebrush, Spanish bayonet and cactus.

40.00 S. $89^{\circ}56'$ E. on a random line, bet. secs. 11 and 14.
Set temp. $\frac{1}{4}$ sec. cor.
79.92 Intersect N. and S. line, 7 lks. S. of the cor. of secs.
11, 12, 13 and 14.
Thence
N. $89^{\circ}59'$ W. on a true line, bet. secs. 11 and 14.
Over rolling land, through scattering undergrowth.
Desc. 240 ft., over very gradual slope.
24.30 Wash, 30 lks. wide, course SW. Continue descent.
39.96 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$	S11
	S14
1921	

68.50 And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
N. of cor.
Continue descent, 140 ft.
79.92 Survey road, brs. N. and S. Thence over level land.
The cor. of secs. 10, 11, 14 and 15.
Land, level and rolling.
Soil, 2nd and 3rd rates.
Timber, none.
Undergrowth, sagebrush, cactus and Spanish bayonet.

9.10 N. $0^{\circ}1'$ W. bet. secs. 10 and 11.
15.00 Over level land, through scattering undergrowth.
21.00 Wash, 80 lks. wide, cut banks 6 ft. deep, course SW.
29.00 Asc. 85 ft.
40.00 Low hill. Desc.
Thence over level valley.
Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the
ground, 20 ins. in a mound of stone, with stone marked
cross (X) alongside, for $\frac{1}{4}$ sec. cor., marked on brass
cap

$\frac{1}{4}$	S10	S11
1921		

68.20 And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
W. of cor.
Center of wash, 1 ch. wide, cut banks 10 ft. high, course
76.40 SE.
Same wash, 60 lks. wide, cut banks 15 ft. high, course
80.00 SW.
Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the
ground, for cor. of secs. 2, 3, 10 and 11, marked on
brass cap

Survey of the
Subdivision of T. 33 N., R. 9 W.

chains.

T33N R9W
S 3 | S 2
S10 | S11
1921

From which

- A cedar, 10 ins. diam., brs. N.12°E.,
320 lks. dist., marked T33N R9W S2 BT.
- A cedar, 24 ins. diam., brs. S.56°E.,
112 lks. dist., marked T33N R9W S11 BT.
- A cedar, 14 ins. diam., brs. S.67°W.,
850 lks. dist., marked T33N R9W S10 BT.
- A cedar, 12 ins. diam., brs. N.16°W.,
699 lks. dist., marked T33N R9W S3 BT.

Land, level and gently rolling.
Soil, rocky, 3rd rate.
Timber, cedar.
Undergrowth, sagebrush, cactus and Spanish bayonet.

- 40.00
- 80.00
- 3.70
- 4.50
- 8.50
- 28.50
- 38.00
- 39.50
- 40.00

S.89°59'E. on a random line, bet. secs. 2 and 11.
Set temp. 1/4 sec. cor.
Intersect N. and S. line, 7 lks. N. of the cor. of secs.
1, 2, 11 and 12.

Thence
N.89°56'W. on a true line, bet. secs. 2 and 11.
Over rolling and broken land, through scattering under-
growth.

Asc. 105 ft.
Spur, slopes S. Desc. 455 ft.
Cliff, 10 ft. high, brs. NW. and SE.
Cliff, 50 ft. high, brs. NW. and SE.
Draw, course S. Asc.
Spur, slopes S. Desc.
Cliff, 20 ft. high, brs. N. and S.
Set an iron post, 3 ft. long, 1 in. diam., 16 ins. in the
ground, 14 ins. in a mound of stone, with stone marked
cross (X) at foot of post, for 1/4 sec. cor., marked on
brass cap

1/4 S 2
S11
1921

And raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
N. of cor.

- 68.60
- 69.00
- 78.70
- 80.00

Desc. 235 ft.
Survey road, brs. N. and S. Thence over nearly level
land.

From this point, end of pipe line from Big Spring in
sec. 19, T. 34 N., R. 8 W., brs. North 5 chs. dist.

Center of wash, 50 lks. wide, cut banks 15 ft. deep,
course S.

The cor. of secs. 2, 3, 10 and 11.
Land, nearly level, rolling and broken.
Soil, rocky, 3rd rate.
Timber, none.
Undergrowth, sagebrush, cactus and Spanish bayonet.

- 40.00
- 79.52

N.0°13'E. on a random line, bet. secs. 2 and 3.
Set temp. 1/4 sec. cor.
Fall 16 lks. E. of the cor. of secs. 2, 3, 34 and 35, on
the N. bdy. of Tp., which is an iron post, hereinbe-
fore described.

Thence
S.0°6'W. on a true line, bet. secs. 2 and 3.
Over nearly level lava beds, through scattering timber
and undergrowth.

Survey of the
Subdivision of T. 33 N., R. 9 W.

Chains.
8.00 Wash, 10 lks. wide, course SW.
39.52 The true point for $\frac{1}{4}$ sec. cor. falls in wash, 2.00 chs. wide, course SW.
41.52 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
 W C
 S 3 | S 2
 1921

From which
A cedar, 14 ins. diam., brs. S.17°E.,
151 lks. dist., marked WC $\frac{1}{4}$ S2 BT.
A cedar, 18 ins. diam., brs. S.81°W.,
157 lks. dist., marked WC $\frac{1}{4}$ S3 BT.

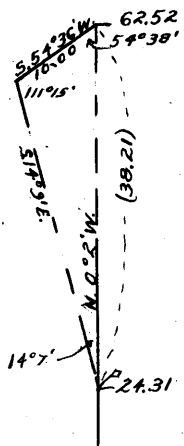
46.60 Center of same wash, 2.00 chs. wide, 5 ft. deep, course SE.
52.50 Center of same wash, 50 lks. wide, 10 ft. deep, course SW.
66.80 Center of same wash, 1 ch. wide, 10 ft. deep, course SE.
71.40 Same wash, 50 lks. wide, 20 ft. deep, course SW.
76.90 Same wash, 50 lks. wide, 20 ft. deep, course SE.
79.52 The cor. of secs. 2, 3, 10 and 11.
Land, nearly level.
Soil, lava flow, 4th rate.
Timber, cedar.
Undergrowth, sagebrush.

From the standard cor. of secs. 33 and 34, on the S. bdy. of Tp., which is an iron post, hereinbefore described N.0°2'W. bet. secs. 33 and 34.
Over mountainous land, through scattering timber and undergrowth.

Desc.
0.70 Center of wash, 1.50 chs. wide, 20 ft. deep, course E.
Asc. 355 ft.
10.23 Top of cliffs, bearing NE. and SW. Continue ascent 410 ft.
19.60 Spur, slopes E. Desc.
24.31 Set flag for triangulation.
34.80 Wash, 40 lks. wide, course E. Asc.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground, in a mound of stone, 3 ft. base, 2 ft. high, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
 S33 | S34
 1921

And raise a mound of stone, 3 ft. base, 3 ft. high, W. of cor.
Impracticable to chain from this point. Set a flag ahead on line, from which I measure a base S.54°36'W. 10.00 chs., from the W. end of which, flag at the 24.31 ch. point brs. S.14°9'E. The three angles of the triangle are therefore 54°38', 14°7' and 111°15', the sum of which is 180°. The distance triangulated is given by the sine proportion:



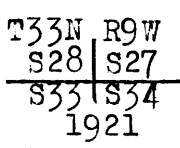
Survey of the
Subdivision of T. 33 N., R. 9 W.

Chains.

$$\frac{X}{10.00} = \frac{\sin. 111^{\circ}15'}{\sin. 14^{\circ}7'}$$

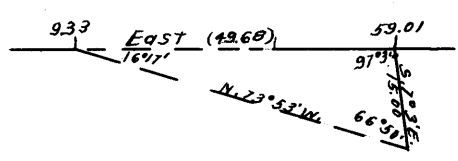
log. 10.00 = 1.000000
 log. sin. 14°7' = 9.387207
 1.612793
 log. sin. 111°15' = 9.969420
 log. X = 1.582213
 X = 38.21 chs., which added

62.52 Top of ascent; thence over rolling land.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 27, 28, 33 and 34, marked on brass cap



And raise a mound of stone, 4 ft. base, 2 ft. high, W. of cor.
 Land, mountainous and rolling.
 Soil, rocky, 4th rate.
 Timber, cedar.
 Undergrowth, sagebrush, Spanish bayonet and quinine brush.

9.33 East on a random line, bet. secs. 27 and 34. Impracticable to chain from this point. Triangulate as follows: Set a flag ahead on line, from which I measure a base S.7°3'E. 15.00 chs., from the S. end of which, flag at the 9.33 ch. point brs. N.73°53'W. The three angles of the triangle are therefore 16°7', 97°3' and 66°50', the sum of which is 180°. The distance triangulated is given by the sine proportion:



$$\frac{X}{15.00} = \frac{\sin. 66^{\circ}50'}{\sin. 16^{\circ}7'}$$

log. 15.00 = 1.176091
 log. sin. 66°50' = 9.963488
 1.139579
 log. sin. 16°7' = 9.443410
 log. X = 1.696169
 X = 49.68 chs., which

added to 9.33 chs., gives 59.01 chs. Thence West 19.01 chs. to
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 Thence East on a random line, bet. secs. 27 and 34.
 80.00 Intersect N. and S. line, 9 lks. S. of the cor. of secs. 26, 27, 34 and 35.
 Thence S.89°56'W. on a true line, bet. secs. 27 and 34.
 Over rolling and mountainous land, through scattering timber and undergrowth.
 Asc. 70 ft.
 7.50 Desc. 20 ft.
 12.50 Thence over rolling land.
 21.00 Desc. 330 ft.
 31.00 Center of Whitmore wash, 2 chs. wide, 10 ft. deep, course SW. Asc. 235 ft.

Survey of the
Subdivision of T. 33 N., R. 9 W.

Chains.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$ S27
S34
1921

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

70.67 Thence by triangulation, as hereinbefore described, to
80.00 Thence by chaining, over rolling land.

The cor. of secs. 27, 28, 33 and 34.

Land, rolling and mountainous.

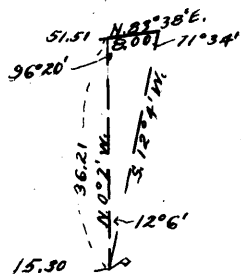
Soil, rocky, 4th rate.

Timber, cedar and pinyon.

Undergrowth, sagebrush.

15.30 N.0°2'W. bet. secs. 27 and 28.
Over rolling land, through scattering timber and undergrowth.

Rim, brs. E. and W. Impracticable to chain from this point. Triangulate as follows:



Set a flag ahead on line, from which I measure a base N.83°38'E. 8.00 chs., from the E. end of which, flag at the 15.30 ch. point brs. S.12°4'W. The three angles of the triangle are therefore 96°20', 71°34' and 12°6', the sum of which is 180°. The distance triangulated is given by the sine proportion:

$$\frac{X}{8.00} = \frac{\sin. 71^{\circ}34'}{\sin. 12^{\circ}6'}$$

log. 8.00	=	0.903090
log. sin. 12°6'	=	9.321430
log. sin. 71°34'	=	1.581660
log. X	=	9.977125
X	=	1.558785
		36.21 chs., which added

to 15.30 chs., gives 51.51 chs. Thence by chaining, S.0°2'E. 12.01 chs. to

39.50 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap

W C
 $\frac{1}{4}$
S28 | S27
1921

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

40.00 Thence N.0°2'W., bet. secs. 27 and 28.

The true point for $\frac{1}{4}$ sec. cor. falls in wash, 1 ch. wide, 20 ft. deep, course E., 600 ft. below 15.30 ch. point.

Thence over rolling land.

67.00 Wash, 20 lks. wide, course E.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, with stone marked cross (X) alongside, for cor. or secs. 21, 22, 27 and 28, marked on brass cap

T33N R9W
S21 | S22
S28 | S27
1921

From which

Survey of the
Subdivision of T. 33 N., R. 9 W.

Chains.

A cedar, 8 ins. diam., brs. S. $83\frac{1}{2}^{\circ}$ W.,
266 lks. dist., marked T33N R9W S28 BT.
A cedar, 24 ins. diam., brs. N. $88\frac{1}{2}^{\circ}$ W.,
269 lks. dist., marked T33N R9W S21 BT.
No other trees within limits.
Land, mountainous and rolling.
Soil, rocky, 4th rate.
Timber, cedar.
Undergrowth, sagebrush and Spanish bayonet.

40.00 N. $89^{\circ}56'$ E. on a random line, bet. secs. 22 and 27.
Set temp. $\frac{1}{4}$ sec. cor.
79.96 Intersect N. and S. line, 5 lks. N. of the cor. of secs.
22, 23, 26 and 27.
Thence
S. $89^{\circ}58'$ W. on a true line, bet. secs. 22 and 27.
Over rolling land, lava flow, through scattering timber
and undergrowth. Desc.
9.90 Leave lava flow, brs. N. and S.
10.90 Center of Whitmore wash, 2 chs. wide, course S.
Asc, 680 ft.
39.98 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the
ground, with stone marked cross (X) alongside, for $\frac{1}{4}$
sec. cor., marked on brass cap

$\frac{1}{4}$ S22
 $\frac{1}{4}$ S27
1921

And raise a mound of stone, 3 ft. base, $2\frac{1}{2}$ ft. high, N.
of cor. Continue ascent, 185 ft.
49.50 Desc. 250 ft.
67.50 Wash, 70 lks. wide, course S. Asc.
79.96 The cor. of secs. 21, 22, 27 and 28.
Land, mountainous and rolling.
Soil, lava flow, 4th rate; and rocky, 4th rate.
Timber, cedar.
Undergrowth, sagebrush and Spanish bayonet.

4.20 N. $0^{\circ}2'$ W. bet. secs. 21 and 22.
11.60 Over mountainous land, through scattering timber and
undergrowth.
27.30 Asc. 80 ft.
40.00 Spur, slopes E. Desc. 180 ft.
Wash, 50 lks. wide, course SE. Asc. 510 ft.
Rim rock, brs. NE. and SW. Thence over rolling land.
Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the
ground, with stone marked cross (X) alongside, for $\frac{1}{4}$
sec. cor., marked on brass cap

$\frac{1}{4}$
S21 | S22
1921

And raise a mound of stone, 4 ft. base, 3 ft. high, W.
of cor.
48.70 Desc. 135 ft.
66.20 Draw, course NW. Asc. 70 ft.
71.70 Spur, slopes NW. Desc. 295 ft.
80.00 Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the
ground, with stone marked cross (X) alongside, for
cor. of secs. 15, 16, 21 and 22, marked on brass cap

BOOK 3617

Survey of the
Subdivision of T. 33 N., R. 9 W.

chains:

T33N. R9W
S16 | S15
S21 | S22
1921

And raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor.
Land, mountainous and rolling.
Soil, rocky, 4th rate.
Timber, cedar.
Undergrowth, sagebrush and cactus.

40.00 N. 89°58'E. on a random line, bet. secs. 15 and 22.
Set temp. $\frac{1}{4}$ sec. cor.
80.12 Intersect the cor. of secs. 14, 15, 22 and 23.
Thence
S. 89°58'W. on a true line, bet. secs. 15 and 22.
Over gently rolling land, through scattering timber and undergrowth. Asc. 215 ft.
31.80 Wash, 20 lks. wide, course SE.
40.06 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$ S15
S22
1921

80.12 And raise a mound of stone, 4 ft. base, 3 $\frac{1}{2}$ ft. high, N. of cor.
Continue ascent. 380 ft.
The cor. of secs. 15, 16, 21 and 22.
Land, gently rolling.
Soil, rocky, 4th rate.
Timber, cedar.
Undergrowth, sagebrush and dogwood.

N. 0°2'W. bet. secs. 15 and 16.
Over mountainous land, through scattering timber and undergrowth.
Desc. 105 ft.
4.20 Wash, 50 lks. wide, course E. Asc. 445 ft.
8.90 Draw, course SE. Continue ascent.
22.80 Ridge, brs. NW. and SE. Desc. gradually.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground, in a mound of stone, 3 ft. base, 2 ft. high, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
S16 | S15
1921

And raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor.
Continue descent.
44.80 Wash, 20 lks. wide, course SE. Asc.
53.30 Desc. 500 ft., over cliffs.
76.00 Wash, 20 lks. wide, course SE. Asc. 30 ft.
80.00 Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, with stone marked cross (X) alongside, for cor. of secs. 9, 10, 15 and 16, marked on brass cap

Survey of the
Subdivision of T. 33 N., R. 9 W.

BOOK 3617

Chains.

T33N R9W
S 9 | S10
S16 | S15
1921

And raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, cedar and juniper.
Undergrowth, sagebrush.

40.00 N. 89°58'E. on a random line, bet. 10 and 15.
Set temp. 1/4 sec. cor.
80.08 Intersect N. and S. line, 2 lks. S. of the cor. of secs. 10, 11, 14 and 15.
Thence
S. 89°57'W. on a true line, bet. secs. 10 and 15.
Over level land, through scattering timber and undergrowth.
10.80 Center of Whitmore Wash, 1 ch. wide, 10 ft. deep, course S.
13.50 Wash, 10 lks. wide, course S.
21.80 Wash, 20 lks. wide, 10 ft. deep, course SW.
23.60 Wash, 80 lks. wide, course S. Asc. 325 ft.
40.04 Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground, in a mound of stone, 4 ft. base, 2 ft. high, for 1/4 sec. cor., marked on brass cap

1/4 S10
S15
1921

And raise a mound of stone, 4 ft. base, 2 ft. high, N. of cor.
Asc. 70 ft.
41.90 Spur, slopes SE. Desc. 220 ft.
80.08 The cor. of secs. 9, 10, 15 and 16.
Land, level and mountainous.
Soil, E. 1/2 lava flow, 4th rate; remainder, rocky, 4th rate.
Timber, cedar.
Undergrowth, sagebrush.

N. 0°2'W. bet. secs. 9 and 10.
Over mountainous land, through scattering timber and undergrowth.
Asc. 405 ft.
10.50 Top of ascent. Thence over rolling land.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground, in a mound of stone, 4 ft. base, 2 1/2 ft. high, for 1/4 sec. cor., marked on brass cap

S 9 | S10
1921

From which
A cedar, 8 ins. diam., brs. N. 79 1/2° E., 141 lks. dist., marked 1/4 S10 BT.
A cedar, 8 ins. diam., brs. N. 19 1/4° W., 94 lks. dist., marked 1/4 S9 BT.
Descend 510 ft.
79.10 Center of Whitmore Wash, 1.30 chs. wide, 10 ft. deep, course SE. Asc.
80.00

Survey of the
Subdivision of T. 33 N., R. 9 W.

Chains. 80.00	<p>Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, for cor. of secs. 3, 4, 9 and 10, marked on brass cap</p> $\begin{array}{r} T33N R9W \\ S 4 S 3 \\ \hline S 9 S10 \\ 1921 \end{array}$ <p>And raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor. Land, mountainous. Soil, rocky, 3rd and 4th rates. Timber, cedar. Undergrowth, sagebrush, cactus and Spanish bayonet.</p>
40.00 79.90	<p>N.89°57'E. on a random line, bet. secs. 3 and 10. Set temp. $\frac{1}{4}$ sec. cor. Intersect N. and S. line, 5 lks. N. of the cor. of secs. 2, 3, 10 and 11. Thence S.89°59'W. on a true line, bet. secs. 3 and 10. Over level land, through scattering timber and undergrowth.</p>
35.50 39.95	<p>Center of wash, 2 chs. wide, 10 ft. deep, course SW. Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap</p> $\begin{array}{r} \frac{1}{4} S 3 \\ \hline S10 \\ 1921 \end{array}$
73.20 79.90	<p>From which A cedar, 10 ins. diam., brs. N.68°E., 436 lks. dist., marked $\frac{1}{4}$S3 BT. A cedar, 14 ins. diam., brs. S.20°E., 230 lks. dist., marked $\frac{1}{4}$S10 BT. Wash, 50 lks. wide, 5 ft. deep, course SW. The cor. of secs. 3, 4, 9 and 10. Land, level. Soil, rocky, 3rd and 4th rates. Timber, cedar. Undergrowth, sagebrush.</p>
40.00 79.59	<p>N.0°5'E. on a random line, bet. secs. 3 and 4. Set temp. $\frac{1}{4}$ sec. cor. Fall 2 lks. W. of the cor. of secs. 3, 4, 33 and 34, on the N. bdy. of Tp., which is an iron post, hereinbefore described. Thence</p>
31.60 39.59	<p>S.0°6'W. on a true line, bet. secs. 3 and 4. Over level land, through scattering timber and undergrowth. Desc. 140 ft. Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground, in a mound of stone, 3 ft. base, 2 ft. high, for $\frac{1}{4}$ sec. cor., marked on brass cap</p> $\begin{array}{r} \frac{1}{4} \\ S 4 S 3 \\ \hline 1921 \end{array}$
	<p>From which A cedar, 12 ins. diam., brs. N.58$\frac{1}{2}$°E., 49 lks. dist., marked $\frac{1}{4}$S3 BT.</p>

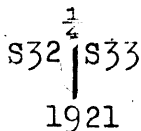
Survey of the
Subdivision of T. 33 N., R. 9 W.

Chains.

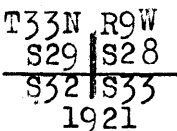
A cedar, 12 ins. diam., brs. S.69 $\frac{3}{4}$ °W.,
49 lks. dist., marked $\frac{1}{4}$ S4 BT.
Continue descent, 640 ft.
69.10 Wash, 50 lks. wide, course SE. Thence over level land.
79.59 The cor. of secs. 3, 4, 9 and 10.
Land, level and mountainous.
Soil, rocky, 4th rate.
Timber, cedar.
Undergrowth, sagebrush.

From the standard cor. of secs. 32 and 33, on the S. bdy.
of Tp., which is an iron post, hereinbefore described,
N.0°3'W. bet. secs. 32 and 33.
Over rolling and broken land, through scattering timber
and dense undergrowth.

Asc.
1.00 Spur, slopes NE. Desc.
5.50 Draw, course NE. Asc.
11.10 Spur, slopes SE. Desc.
24.00 Head of draw, course NE. Asc.
29.40 Ridge, brs. NE. and SW. Desc.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the
ground, 28 ins. in a mound of stone, 3 ft. base, with
stone marked cross (X) at base of post, for $\frac{1}{4}$ sec. cor.
marked on brass cap

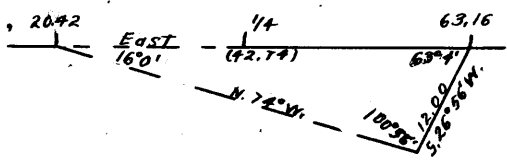


Continue descent.
51.00 Wash, in canyon, course NE. Asc.
54.50 Spur, slopes E. Desc.
73.50 Draw, course E. Asc.
80.00 Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the
ground, in a mound of stone, 3 ft. base, with stone
marked cross (X) at base of post, for cor. of secs.
28, 29, 32 and 33, marked on brass cap



Land, rolling and broken.
Soil, rocky, 4th rate.
Timber, cedar.
Undergrowth, sagebrush, quinine brush and cactus.

20.42 East on a random line, bet. secs. 28 and 33.
Impracticable to chain from this point. Set a flag
ahead on line, from which I measure a base S.26°56'W.
12.00 chs.--impracticable
to secure longer base--
from the S. end of which, 20.42
flag at the 20.42 ch.
point brs. N.74°W. The
three angles of the tri-
angle are therefore
16°00', 63°4' and 100°56',
the sum of which is 180°.
The distance triangulated is
given by the sine proportion:



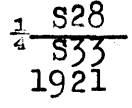
Survey of the
Subdivision of T. 33 N., R. 9 W.

Chains.

$$\frac{X}{12.00} = \frac{\sin. 100^{\circ}56'}{\sin. 16^{\circ}00'}$$

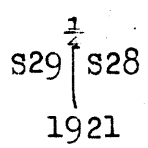
$$\begin{aligned} \log. \sin. 12.00 &= 1.079181 \\ \log. \sin. 16^{\circ} &= 9.440338 \\ &= 1.638843 \\ \log. \sin. 100^{\circ}56' &= 9.992044 \\ \log. X &= 1.630887 \\ X &= 42.74 \text{ chs., which added to} \end{aligned}$$

20.42 chs., gives 63.16 chs. Thence West 23.16 chs. by chaining to
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 Thence East on a random line, bet. secs. 28 and 33.
 80.02 Intersect N. and S. line, 9 lks. S. of the cor. of secs. 27, 28, 33 and 34.
 Thence S. $89^{\circ}56'$ W. on a true line, bet. secs. 28 and 33.
 Over rolling land, through scattering timber and dense undergrowth.
 16.87 Desc. 460 ft.
 36.90 Wash, 50 lks. wide, course NE. Asc. 110 ft.
 40.01 Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

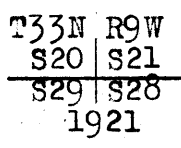


And raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
 Continue ascent 350 ft., distance by triangulation, as hereinbefore described.
 59.60 Rim of canyon, brs. NE. and SW. Thence over rolling land.
 80.02 The cor. of secs. 28, 29, 32 and 33.
 Land, rolling and mountainous.
 Soil, rocky, 4th rate.
 Timber, cedar and pinyon.
 Undergrowth, sagebrush, quinine brush and cactus.

N. $0^{\circ}3'$ W. bet. secs. 28 and 29.
 Over broken land, through scattering timber and undergrowth.
 Asc.
 25.00 Ridge, brs. E. and W. Desc.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 15 ins. in the ground, 20 ins. in a mound of stone, 3 ft. base, with stone marked cross (X) at base of post, for $\frac{1}{4}$ sec. cor., marked on brass cap



Continue descent.
 46.00 Draw, course NE. Thence along E. slope.
 53.00 Draw, course E. Asc.
 64.50 Spur, slopes E. Desc.
 72.60 Draw, course SE. Asc.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 4 ins. in the ground, 30 ins. in a mound of stone, 4 ft. base, with stone marked cross (X) at base of post, for cor. of secs. 20, 21, 28 and 29, marked on brass cap



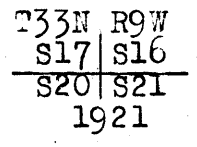
Survey of the
Subdivision of T. 33 N., R. 9 W.

Chains.	<p>Land, broken. Soil, rocky, 4th rate. Timber, cedar and pinyon. Undergrowth, sagebrush, quinine brush and cactus.</p>
<p>40.00 80.04</p>	<p>N. 89° 56' E. on a random line, bet. secs. 21 and 28. Set temp. $\frac{1}{4}$ sec. cor. Intersect N. and S. line, 23 lks. S. of the cor. of secs. 21, 22, 27 and 28.</p>
	<p>Thence S. 89° 46' W. on a true line, bet. secs. 21 and 28. Over mountainous land, through scattering timber and undergrowth.</p>
<p>10.60</p>	<p>Asc. Spur, slopes NE. Desc.</p>
<p>26.00</p>	<p>Asc.</p>
<p>31.20</p>	<p>Spur, slopes NE. Desc.</p>
<p>32.60</p>	<p>Wash, 20 lks. wide, 10 ft. deep, course NE. Asc. over cliffs.</p>
<p>40.02</p>	<p>Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground, in a mound of stone, 3 ft. base, 1$\frac{1}{2}$ ft. high, for $\frac{1}{4}$ sec. cor., marked on brass cap</p>
	<p style="text-align: center;"> $\frac{1}{4}$ S21 $\frac{1}{4}$ S28 1921 </p>
	<p>From which A cedar, 8 ins. diam., brs. N. 57$\frac{1}{2}$° E., 322 lks. dist., marked $\frac{1}{4}$ S21 BT. A cedar, 20 ins. diam., brs. S. 5° W., 57 lks. dist., marked $\frac{1}{4}$ S28 BT.</p>
<p>50.00</p>	<p>Top of cliffs; thence over rolling land.</p>
<p>80.04</p>	<p>The cor. of secs. 20, 21, 28 and 29. Land, mountainous and rolling. Soil, rocky, 4th rate. Timber, cedar. Undergrowth, sagebrush, Spanish bayonet, cactus and greasewood.</p>
<p>27.70</p>	<p>N. 0° 3' W. bet. secs. 20 and 21. Over broken land, through scattering timber and undergrowth. Desc. 185 ft. Draw, course NE. Asc. 115 ft.</p>
<p>37.50</p>	<p>Thence along E. slope.</p>
<p>40.00</p>	<p>Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground, 18 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap</p>
	<p style="text-align: center;"> $\frac{1}{4}$ S20 S21 1921 </p>
	<p>From which A cedar, 24 ins. diam., brs. N. 56$\frac{1}{2}$° E., 35 lks. dist., marked $\frac{1}{4}$ S21 BT. A cedar, 18 ins. diam., brs. S. 21° W., 72 lks. dist., marked $\frac{1}{4}$ S20 BT.</p>
<p>42.00</p>	<p>Continue ascent. Spur, slopes E. Desc. 85 ft.</p>
<p>55.50</p>	<p>Draw, course E. Asc. 60 ft.</p>
<p>59.00</p>	<p>Spur, slopes E. Desc.</p>
<p>69.20</p>	<p>Draw, course SE. Asc. over gradual slope.</p>

Survey of the
Subdivision of T. 33 N., R. 9 W.

Chains.
80.00

Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground, 14 ins. in a mound of stone, for cor. of secs. 16, 17, 20 and 21, marked on brass cap



From which

- A cedar, 16 ins. diam., brs. N.35°E., 38 lks. dist., marked T33N R9W S16 BT.
- A cedar, partly dead, 24 ins. diam., brs. S.21½°E., 103 lks. dist., marked T33N R9W S21 BT.
- A cedar, 10 ins. diam., brs. S.24°W., 150 lks. dist., marked T33N R9W S20 BT.
- A cedar, 14 ins. diam., brs. N.26½°W., 196 lks. dist., marked T33N R9W S17 BT.

Land, broken.
Soil, rocky, 4th rate.
Timber, cedar.
Undergrowth, sagebrush.

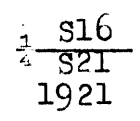
40.00
79.94

N.89°46'E. on a random line, bet. secs. 16 and 21.
Set temp. ¼ sec. cor.
Intersect N. and S. line, 2 lks. S. of the cor. of secs. 15, 16, 21 and 22.

Thence
S.89°45'W. on a true line, bet. secs. 16 and 21.
Over rolling and mountainous land, through scattering timber and undergrowth.

6.20
39.97

Desc.
Center of wash, 1 ch. wide, course NE. Asc. 550 ft.
Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground, in a mound of stone, 3 ft. base, 2 ft. high, for ¼ sec. cor., marked on brass cap



From which

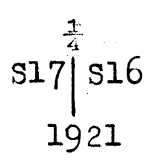
- A cedar, 8 ins. diam., brs. N.49½°E., 100 lks. dist., marked ¼ S16 BT.
- A cedar, 8 ins. diam., brs. S.55½°W., 195 lks. dist., marked ¼ S21 BT.

79.94

Thence over rolling land,
The cor. of secs. 16, 17, 20 and 21.
Land, rolling and mountainous.
Soil, rocky, 4th rate.
Timber, cedar.
Undergrowth, sagebrush, dogwood cactus, and Spanish bayonet.

7.00
40.00

N.0°3'W. bet. secs. 16 and 17.
Over rolling and broken land, through scattering timber and undergrowth.
Draw, course NE.
Set an iron post, 3 ft. long, 1 in. diam., 2 ins. in the ground, 30 ins. in a mound of stone, for ¼ sec. cor., marked on brass cap



Survey of the
Subdivision of T. 33 N., R. 9 W.

Chains.

From which
 A cedar, 14 ins. diam., brs. N.38°E.,
 90 lks. dist., marked $\frac{1}{2}$ S16 BT.
 A cedar, 18 ins. diam., brs. N.67°W.,
 115 lks. dist., marked $\frac{1}{2}$ S17 BT.
 56.00 Rim of mesa, brs. NE. and SW. Desc. 360 ft.
 62.60 Wash in bottom of canyon, 20 lks. wide, course NE. Asc.
 360 ft.
 76.00 Thence along E. slope.
 80.00 Rim of mesa, brs. NE. and SW. Set an iron post, 3 ft.
 long, 2 ins. diam., on bed rock, 30 ins. in a mound of
 stone, 4 ft. base, for cor. of secs. 8, 9, 16 and 17,
 marked on brass cap

T33N. R9W
 S 8 | S 9

 S17 | S16
 1921

From which
 A cedar, 18 ins. diam., brs. S.25°W.,
 217 lks. dist., marked T33N R9W S17 BT.
 A cedar, 30 ins. diam., brs. N.89°W.,
 51 lks. dist., marked T33N R9W S8 BT.
 And raise a mound of stone, 3 ft. base, 3 ft. high, W. of
 cor. No other trees within limits.
 Land, rolling and broken.
 Soil, rocky, 4th rate.
 Timber, cedar.
 Undergrowth, sagebrush, cactus, and Spanish bayonet.

40.00 N.89°45'E. on a random line, bet. secs. 9 and 16.
 Set temp. $\frac{1}{4}$ sec. cor.
 80.00 Intersect N. and S. line, 7 lks. S. of the cor. of secs.
 9, 10, 15 and 16.
 Thence
 S.89°42'W. on a true line, bet. secs. 9 and 16.
 Over rolling and mountainous land, through scattering
 timber and undergrowth.
 Desc.
 7.60 Thence along N. side of draw, course E.
 17.60 Center of wash, 1 ch. wide, course SE. Asc. 115 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the
 ground, in a mound of stone, 3 ft. base, 2 ft. high,
 for $\frac{1}{4}$ sec. cor. marked on brass cap

$\frac{1}{4}$ S 9

 S16
 1921

From which
 A cedar, 18 ins. diam., brs. N.49°E.,
 190 lks. dist., marked $\frac{1}{2}$ S9 BT.
 A cedar, 8 ins. diam., brs. S.18°E.,
 116 lks. dist., marked $\frac{1}{2}$ S16 BT.
 80.00 Continue ascent, 590 ft.
 The cor. of secs. 8, 9, 16 and 17.
 Land, rolling and mountainous.
 Soil, rocky, 4th rate.
 Timber, cedar.
 Undergrowth, sagebrush, cactus, and Spanish bayonet.

N.0°3'W. bet. secs. 8 and 9.
 Over broken land, through scattering timber and under-
 growth.
 Desc. 90 ft.

Survey of the
Subdivision of T. 33 N., R. 9 W.

Chains.

22.50 Draw, course NE. Asc. 25 ft.
 31.20 Rim rock, brs. E. and W., 20 ft. high, Desc. 185 ft.
 39.20 Wash, 20 lks. wide, course NE. Asc. 170 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the
 ground, 12 ins. in a mound of stone, 1½ ft. base, for
 ¼ sec. cor., marked on brass cap

$$\begin{array}{c} \frac{1}{4} \\ S\ 8\ \frac{1}{4}\ S\ 9 \\ | \\ 1921 \end{array}$$

From which
 A cedar, 20 ins. diam., brs. S.52½°E.,
 135 lks. dist., marked ¼S9 BT.
 A cedar, 18 ins. diam., brs. S.19°W.,
 253 lks. dist., marked ¼S8 BT.

Continue ascent.
 41.50 Foot of cliff, 50 ft. high, bearing E. and W. Continue
 ascent.
 43.00 Spur, slopes E. Desc. 50 ft.
 56.00 Draw, course E. Asc. 40 ft.
 63.00 Spur, slopes NE. Desc. 30 ft.
 66.00 Draw, course NE. Asc. 35 ft.
 71.00 Thence along E. slope.
 78.00 Desc. 15 ft.
 79.80 Rim of bench, brs. NW. and SE.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 4 ins. in the
 ground, 30 ins. in a mound of stone, 4 ft. base, for
 cor. of secs. 4, 5, 8 and 9, with stone marked cross
 (X) at base of post, marked on brass cap

$$\begin{array}{c} T33N\ R9W \\ S\ 5\ S\ 4 \\ \hline S\ 8\ S\ 9 \\ 1921 \end{array}$$

From which
 A cedar, partly dead, 18 ins. diam., brs. N.44½°E.,
 48 lks. dist., marked T33N R9W S4 BT.
 A cedar, 20 ins. diam., partly dead, brs. N.41½°W.,
 60 lks. dist., marked T33N R9W S5 BT.
 No other trees within limits.

Land, broken.
 Soil, rocky, 4th rate.
 Timber, cedar and pinyon.
 Undergrowth, sagebrush, Spanish bayonet and cactus.

40.00 N.89°42'E. on a random line, bet. secs. 4 and 9.
 Set temp. ¼ sec. cor.
 79.94 Intersect N. and S. line, 2 lks. N. of the cor. of secs.
 3, 4, 9 and 10.
 Thence
 S.89°43'W. on a true line, bet. secs. 4 and 9.
 Over rolling land, through scattering timber and under-
 growth.
 Desc.
 5.00 Center of Whitmore Wash, 1.50 chs. wide, 10 ft. deep,
 course SE. Asc. 120 ft.
 39.97 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the
 ground, for ¼ sec. cor., marked on brass cap

$$\begin{array}{c} \frac{1}{4}\ S\ 4 \\ \hline S\ 9 \\ 1921 \end{array}$$

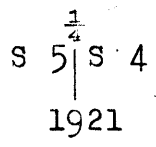
From which
 A cedar, 10 ins. diam., brs. N.69¾°W.,
 715 lks. dist., marked ¼S4 BT.

Survey of the
Subdivision of T. 33 N., R. 9 W.

Chains.

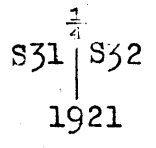
58.80 A cedar, 12 ins. diam., brs. S. 71° W.,
 64.10 335 lks. dist., marked 1/4 S9 BT.
 79.94 Continue ascent, 665 ft.
 Spur, slopes NE. Thence along N. slope.
 Asc.
 The cor. of secs. 4, 5, 8 and 9.
 Land, rolling and mountainous.
 Soil, rocky, 3rd and 4th rates.
 Timber, cedar.
 Undergrowth, sagebrush, cactus and Spanish bayonet.

40.00 N. 0° 5' E. on a random line, bet. secs. 4 and 5.
 79.76 Set temp. 1/4 sec. cor.
 Fall 19 lks. W. of the cor. of secs. 4, 5, 32 and 33, on
 the N. bdy. of Tp., which is an iron post, hereinbe-
 fore described.
 Thence
 S. 0° 13' W. on a true line, bet. secs. 4 and 5.
 Over mountainous land, through scattering timber and
 undergrowth.
 Desc.
 5.45 Road, brs. NW. and SE.
 15.26 Center of Whitmore Wash, 1.40 chs. wide, course SE. Asc.
 250 ft.
 32.45 Spur, slopes SE. Desc. 135 ft.
 39.76 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the
 ground, 18 ins. in a mound of stone, 3 ft. base, with
 stone marked cross (X) at base of post, for 1/4 sec.
 cor., marked on brass cap



46.35 Continue ascent, 135 ft.
 55.95 Draw, course E. Asc. 135 ft.
 63.36 Spur, slopes E. Desc. 90 ft.
 79.76 Center of wash, 1.60 chs. wide, course E. Asc. 435 ft.
 The cor. of secs. 4, 5, 8 and 9.
 Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, cedar.
 Undergrowth, sagebrush and Spanish bayonet.

12.20 From the true point for standard cor. of secs. 31 and 32,
 29.30 on the S. bdy. of Tp., witnessed at 0.25 chs. E. by
 38.00 an iron post, as hereinbefore described,
 40.00 N. 0° 3' W. bet. secs. 31 and 32.
 Over broken land, through scattering undergrowth.
 Draw, course W. Asc. 160 ft.
 Spur, slopes W. Desc. 30 ft.
 Gulch, course W. Asc. SW
 Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the
 ground, 26 ins. in a mound of stone, with stone marked
 cross (X) at base of post, for 1/4 sec. cor., marked on
 brass cap



41.40 Spur, slopes W. Desc. 25 ft.
 45.80 Gulch, course SW. Asc. 55 ft.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the

Survey of the
Subdivision of T. 33 N., R. 9 W.

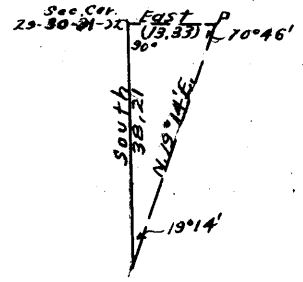
Chains.

ground, 12 ins. in a mound of stone, for cor. of secs. 29, 30, 31 and 32, marked on brass cap

T33N R9W
S30 | S29
S31 | S32
1921

And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
Land, broken.
Soil, rocky, 4th rate.
Timber, none.
Undergrowth, greasewood, sagebrush, quinine brush, Spanish bayonet, cactus and catclaw.

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



Impracticable to chain from this cor. Set a flag ahead on line, and from the cor. of secs. 29, 30, 31 and 32, measure a base South 38.21 chs., from the S. end of which, flag brs. N.19°14'E. The three angles of the triangle are therefore 19°14', 90° and 70°46', the sum of which is 180°. The

distance triangulated is given by tan. 19°14' X 38.21 = .34889 X 38.21 = 13.33 chs.

13.33 Continue East on a random line, bet. secs. 29 and 32.
40.00 Set temp. ¼ sec. cor.
80.02 Intersect N. and S. line, 19 lks. N. of the cor. of secs. 28, 29, 32 and 33.

Thence N.89°52'W. on a true line, bet. secs. 29 and 32. Over rolling land, through scattering timber and undergrowth.

38.50 Head of draw, course NW. Desc. 15 ft.
40.01 Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for ¼ sec. cor., marked on brass cap

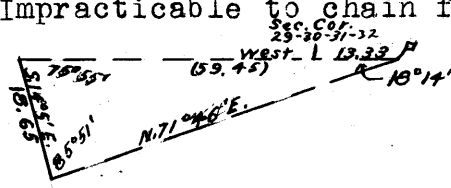
¼ S29
S32
1921

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

Thence along N. slope.
47.80 Spur, slopes NW. Desc. 170 ft.
56.00 Draw, course N. Asc. 50 ft.
64.10 Rim of canyon, brs. N. and S. Desc. 85 ft.
66.69 Thence by triangulation, as hereinbefore described, descending.

80.02 The cor. of secs. 29, 30, 31 and 32.
Land, rolling and mountainous.
Soil, rocky, 4th rate.
Timber, cedar and pinyon.
Undergrowth, sagebrush, quinine, Spanish bayonet and cactus.

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



Impracticable to chain from this cor.; triangulate as follows: Set a flag ahead on line, from which I measure a base S.14°5'E. 18.65 chs., from the S. end of which, flag 13.33 chs. East of the cor. of secs.

Survey of the
Subdivision of T. 33 N., R. 9 W.

Chains. 29, 30, 31 and 32 brs. N.71°46'E. The three angles of the triangle are therefore 75°55', 18°14' and 85°51', the sum of which is 180°. The distance triangulated is given by the sine proportion ;

$$\frac{X}{18.65} = \frac{\sin. 85^{\circ}51'}{\sin. 18^{\circ}14'}$$

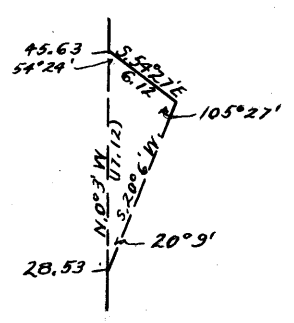
log. 18.65	=	1.270679
log. sin. 18°14'	=	9.495388
		<u>1.775291</u>
log. sin. 85°51'	=	9.998860
log. X	=	<u>1.774151</u>
X	=	59.45 chs., or 46.12 chs.

West of the cor. of secs. 29, 30, 31 and 32.
Thence East 6.12 chs. to
40.00 Set temp. $\frac{1}{4}$ sec. cor.
Thence West on a random line, bet. secs. 30 and 31.
80.05 Fall 23 lks. N. of the cor. of secs. 25, 30, 31 and 36, on the W. bdy. of Tp., which is an iron post, described in Book "A".
Thence N.89°50'E. on a true line, bet. secs. 30 and 31. Over mountainous land, through scattering undergrowth. Desc. 255 ft.
20.45 Center of wash, 1 ch. wide, course S. Asc. 60 ft.
40.05 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.;, marked on brass cap

$$\frac{\frac{1}{4} S30}{S31} = 1921$$

And raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
80.05 Thence by triangulation, as hereinbefore described, The cor. of secs. 29, 30, 31 and 32. Land, mountainous. Soil, rocky, 4th rate. Timber, none. Undergrowth, sagebrush, cat claw, quinine brush, cactus and scrub oak.

20.00 N.0°3'W. bet. secs. 29 and 30. Over mountainous land, through scattering timber and undergrowth. Asc. 160 ft.
28.53 Foot of cliffs, brs. NNE. and SSE. Desc. 50 ft. Spur, slopes W. Impracticable to chain from this point. Set a flag ahead on line, from which I measure a base S.54°27'E., 6.12 chs.;, from the E. end of which, flag at the 28.53 ch. point brs. S.20°6'W. The three angles of the triangle are therefore 54°24', 105°27' and 20°9', the sum of which is 180°. The distance triangulated is given by the sine proportion:



$$\frac{X}{6.12} = \frac{\sin. 105^{\circ}27'}{\sin. 20^{\circ}9'}$$

log. 6.12	=	0.786751
log. sin. 105°27'	=	9.984015
		<u>0.770766</u>
log. sin. 20°9'	=	9.537163
log. X	=	<u>1.233603</u>
X	=	17.12 chs., which added to

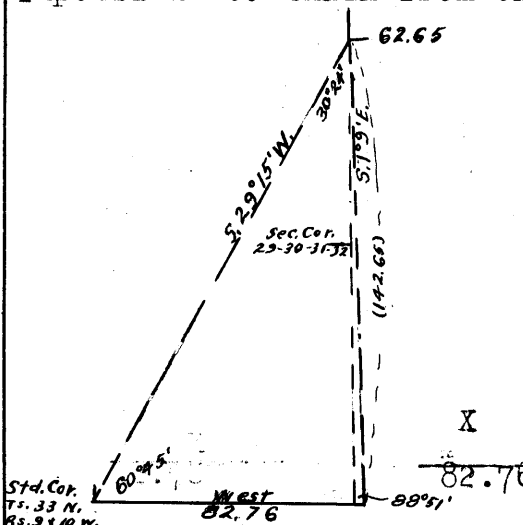
Survey of the
Subdivision of T. 33 N., R. 9 W.

chains.

40.00 28.53 chs., gives 45.65 chs.
45.65 The true point for $\frac{1}{4}$ sec. cor. is inaccessible.
Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground, 20 ins. in a mound of stone, 3 ft. base, with stone marked cross (X) at base of post, for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
S30 | S29
W C
1921

Impossible to chain from this point. Set a flag ahead on line, from which the standard cor. of Ts. 33 N., Rs. 9 and 10 W. brs. S.29°15'W., and a flag set 2.76 chs. East of the standard cor. of secs. 31 and 32, T. 33 N., R. 9 W. brs. S.1°9'E. The three angles of the triangle are therefore 30°24', 88°51' and 60°45', the sum of which is 180°. The distance triangulated is given by the sine proportion:



$$\frac{\sin. 60^{\circ}45'}{\sin. 30^{\circ}24'} = \frac{82.76}{X}$$

log. 82.76	=	1.917820
log. sin. 60°45'	=	9.940763
		<u>1.858583</u>
log. sin. 30°24'	=	9.704179
log. X	=	<u>2.154407</u>
log. cos. 1°9'	=	9.999913
	=	<u>2.154317</u> = log. 142.65 chs.,

or 62.65 chs. N.0°3'W. of the cor. of secs. 29, 30, 31 and 32.
62.65 Continue N.0°3'W. bet. secs. 29 and 30.
Asc. 90 ft.
70.00 Rim rock, brs. NW. and SE. Thence over rolling land.
80.00 Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground, 20 ins. in a mound of stone, 3 ft. base, with stone marked cross (X) at base of post, for cor. of secs. 19, 20, 29 and 30, marked on brass cap

T33N | R9W
S19 | S20

S30 | S29
1921

Land, rolling and mountainous.
Soil, rocky, 4th rate.
Timber, cedar and pinyon.
Undergrowth, sagebrush, quinine brush and cactus.

40.00 S.89°52'E. on a random line, bet. secs. 20 and 29.
79.90 Set temp. $\frac{1}{4}$ sec. cor.
Intersect N. and S. line, 12 lks. N. of the cor. of secs. 20, 21, 28 and 29.
Thence
N.89°47'W. on a true line, bet. secs. 20 and 29.
Over rolling and broken land, through scattering timber and undergrowth.
Asc.
17.00 Ridge, brs. N. and S. Desc. 130 ft.
26.30 Draw, course N. Thence along N. slope.

Survey of the
Subdivision of T. 33 N., R. 9 W.

BOOK 3617

Chains.
39.95

Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground, 24 ins. in a mound of stone, 4 ft. base, with stone marked cross (X) at base of post, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$ S20
S29
1921

From which

A cedar, 16 ins. diam., brs. S.37°E.,
24 lks. dist., marked $\frac{1}{4}$ S29 BT.

No other trees within limits.

42.20

Draw, course N.

56.30

Draw, course NE. Asc.

79.90

The cor. of secs. 19, 20, 29 and 30.

Land, rolling and broken.

Soil, rocky, 4th rate.

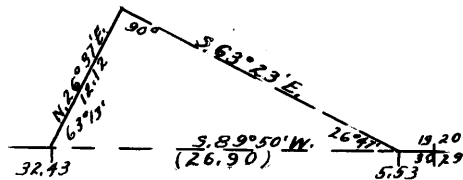
Timber, cedar.

Undergrowth, sagebrush, dogwood, quinine brush, Spanish bayonet and cactus.

5.53

S.89°50'W. on a random line, bet. secs. 19 and 30.
Impracticable to chain from this point. Triangulate as follows: Set a flag ahead

on line, from which I measure a base N.26°37'E. 12.12 chs., from the N. end of which, flag at the 5.53 ch. point brs. S.63°23'E. The three angles of the triangle are therefore 90°, 26°47' and 63°13', the sum of which is 180°. The distance triangulated is given by



$$\frac{12.12}{\cos. 63^{\circ}13'} = \frac{12.12}{.45062} = 26.90 \text{ chs.}, \text{ which added}$$

to 5.53 chs., gives. 32.43 chs.

32.43

Thence continue S.89°50'W. on a random line, bet. secs. 30 and 31.

40.00

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

40.97

Impracticable to chain from this point. Measure South 0.78 chs. to a point where

I set flag "A". From the cor. of secs. 19, 24, 25

and 30, flag "A" brs.

S.88°29'E. From said cor. for secs. 19-24-25-30

measure a base N.0°2'E.

6.22 chs., from the N.

end of which, flag "A"

brs. S.79°26'E. The

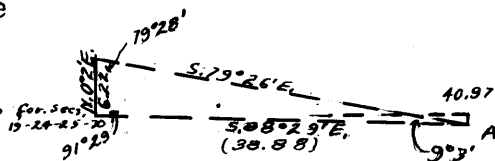
three angles of the tri-

angle are therefore

79°28', 9°3' and 91°29',

the sum of which is 180°.

The distance triangulated is given by the sine proportion:



$$\frac{X}{6.22} = \frac{\sin. 79^{\circ}28'}{\sin. 9^{\circ}3'}$$

$$\begin{aligned} \log. 6.22 &= 0.793790 \\ \log. \sin. 79^{\circ}28' &= 9.992619 \\ \hline &= 0.786409 \\ \log. \sin. 9^{\circ}3' &= 9.196719 \\ \log. X &= 1.589690 \\ \hline X &= 38.88 \text{ chs.} \end{aligned}$$

BOOK 3617

Survey of the
Subdivision of T. 33 N., R. 9 W.

chains.

The latitude and departure of the line N.88°29'W. 38.88 chs. are 1.03 chs. N. and 38.87 chs. W. 38.87 chs. added to 40.97 chs., gives

79.84 By computation, the random line S.89°50'W. falls 25 lks. S. of the cor. of secs 19, 24, 25 and 30, on the W. bdy. of the Tp., which is an iron post, described in Book "A".

Thence
S.89°59'E. on a true line, bet. secs. 19 and 30.
Over mountainous land, through scattering timber and undergrowth, distance by triangulation. Asc.

38.87 Cliffs, br. N. and S. Thence over rolling land.

39.84 Set an iron post, 3 ft. long, 1 in. diam., 3 ins. in the ground, 30 ins. in a mound of stone, 4 ft. base, with stone marked cross (X) at base of post, for $\frac{1}{4}$ sec. cor., marked on brass cap

$$\begin{array}{r} \frac{1}{4} \text{ S19} \\ \frac{1}{4} \text{ S30} \\ \hline 1921 \end{array}$$

Asc. 90 ft.

42.85 Ridge, brs. N. and S. Desc. 65 ft.

47.41 Thence by triangulation, across canyon, course S., as hereinbefore described.

74.31 Rim of canyon, brs. N. and S. Thence over rolling land.

79.84 The cor. of secs. 19, 20, 29 and 30.
Land, mountainous and rolling.
Soil, rocky, 4th rate.
Timber, cedar and pinyon.
Undergrowth, sagebrush, quinine brush and cactus.

N.0°3'W. bet. secs. 19 and 20.
Over broken land, through scattering timber and undergrowth.

Asc.

28.00 Spur, slopes E. Desc.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground, 18 ins. in a mound of stone, 3 ft. base, with stone marked cross (X) at base of post, for $\frac{1}{4}$ sec. cor., marked on brass cap

$$\begin{array}{r} \frac{1}{4} \\ \text{S19} \mid \text{S20} \\ \hline 1921 \end{array}$$

Asc. 65 ft.

49.20 Spur, slopes E. Desc. 60 ft.

68.20 Draw, course E. Asc. 70 ft.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground, in a mound of stone, for cor. of secs. 17, 18, 19 and 20, marked on brass cap

$$\begin{array}{r} \text{T33N R9W} \\ \text{S18} \mid \text{S17} \\ \hline \text{S19} \mid \text{S20} \\ 1921 \end{array}$$

From which

- A cedar, partly dead, 12 ins. diam., brs. N.66 $\frac{3}{4}$ °E., 82 lks dist., marked T33N R9W S17 BT.
- A cedar, 8 ins. diam., brs. S.72 $\frac{3}{4}$ °E., 185 lks. dist., marked T33N R9W S20 BT.
- A cedar, 12 ins. diam., brs. S.42 $\frac{1}{2}$ °W., 328 lks. dist., marked T33N R9W S19 BT.
- A cedar, 20 ins. diam., brs. N.50 $\frac{1}{2}$ °W., 418 lks. dist., marked T33N R9W S18 BT.

BOOK 8617

Survey of the
Subdivision of T. 33 N., R. 9 W.

Chains.

Land, broken.
Soil, rocky, 4th rate.
Timber, cedar and pinyon.
Undergrowth, sagebrush, Spanish bayonet and cactus.

40.00 S. 89° 47' E. on a random line, bet. secs. 17 and 20.
Set temp. $\frac{1}{4}$ sec. cor.
80.06 Intersect N. and S. line, 19 lks. S. of the cor. of secs
16, 17, 20 and 21.
Thence
N. 89° 55' W. on a true line, bet. secs. 17 and 20.
Over broken and rolling land, through scattering timber
and undergrowth.
Asc.
12.00 Ridge, brs. NE. and S. Desc. 255 ft.
25.40 Draw, course N. Thence along N. slope.
28.80 Draw, course NE. Asc. 95 ft.
40.03 Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the
ground, 16 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor.,
marked on brass cap

$\frac{1}{4}$ S17
 $\frac{1}{4}$ S20
1921

From which
A cedar, 24 ins. diam., brs. N. 21° E.,
89 lks. dist., marked $\frac{1}{4}$ S17 BT.
A cedar, 36 ins. diam., brs. S. 31° E.,
25 lks. dist., marked $\frac{1}{4}$ S20 BT.

Thence over nearly level land.
60.00 Asc. 245 ft.
80.06 The cor. of secs. 17, 18, 19 and 20.
Land, nearly level, rolling and broken.
Soil, rocky, 4th rate.
Timber, cedar and pinyon.
Undergrowth, sagebrush, Spanish bayonet and cactus.

40.00 N. 89° 55' W. on a random line, bet. secs. 18 and 19.
Set temp. $\frac{1}{4}$ sec. cor.
79.70 Fall 7 lks. S. of the cor. of secs. 13, 18, 19 and 24,
on the W. bdy. of Tp., which is an iron post, described
in Book "A".
Thence
S. 89° 52' E. on a true line, bet. secs. 18 and 19.
Over broken land, through scattering timber and under-
growth.
Asc.
10.90 Rim of canyon, brs. N. and S. Thence over rolling land.
39.70 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the
ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$ S18
 $\frac{1}{4}$ S19
1921

From which
A cedar, 36 ins. diam., brs. S. 41° E.,
400 lks. dist., marked $\frac{1}{4}$ S19 BT.
No other trees within limits. Raise a mound of stone,
2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

Desc. 135 ft.
49.80 Draw, course S. Asc. 120 ft.
59.70 Ridge, brs. N. and S. Desc.
79.70 The cor. of secs. 17, 18, 19 and 20.

Survey of the
Subdivision of T. 33 N., R. 9 W.

Chains.

Land, broken and rolling.
Soil, rocky, 4th rate.
Timber, cedar and pinyon.
Undergrowth, sagebrush, Spanish bayonet and cactus.

N.0°3'W. bet. secs. 17 and 18.
Over broken land, through scattering timber and undergrowth.

Desc.

- 6.40 Draw, course E. Asc. 30 ft.
- 14.50 Spur, slopes E. Desc. 90 ft.
- 21.00 Draw, course E. Asc. 85 ft.
- 27.00 Spur, slopes E. Desc. 125 ft.

- 39.70 Draw, course E.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in a mound of stone, 4 ft. base, with stone marked cross (X) at base of post, for 1/4 sec. cor., marked on brass cap.

S18 | S17
1/4

1921

From which

- A cedar, 20 ins. diam., brs. N.59 1/2°E.,
27 lks. dist., marked 1/4 S17 BT.
- A cedar, 6 ins. diam., brs. S.86°W.,
36 lks. dist., marked 1/4 S18 BT.

Asc. 115 ft.

- 54.50 Spur, slopes E. Desc. 45 ft.
- 74.50 Draw, course SE. Asc. 30 ft.
- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground, 16 ins. in a mound of stone, for cor. of secs. 7, 8, 17 and 18, marked on brass cap

T33N R9W
S 7 | S 8
S18 | S17

1921

From which

- A cedar, 14 ins. diam., brs. N.65 1/2°E.,
110 lks. dist., marked T33N R9W S8 BT.
- A cedar, 20 ins. diam., brs. S.73 1/2°E.,
58 lks. dist., marked T33N R9W S17 BT.
- A cedar, 16 ins. diam., brs. S.30 1/2°W.,
60 lks. dist., marked T33N R9W S18 BT.
- A cedar, partly dead, 18 ins. diam., brs. N.28 1/2°W.,
30 lks. dist., marked T33N R9W S7 BT.

Land, broken.
Soil, rocky, 4th rate.
Timber, cedar and pinyon.
Undergrowth, sagebrush, dogwood and cactus.

- 40.00 S.89°55'E. on a random line, bet. secs. 8 and 17.
- 80.14 Set temp. 1/4 sec. cor.
Intersect N. and S. line, 5 lks. N. of the cor. of secs. 8, 9, 16 and 17.

Thence

N.89°53'W. on a true line, bet. secs. 8 and 17.
Over broken land, through scattering timber and undergrowth.

- Asc. 100 ft.
- 17.40 Ridge, brs. NE. and S. Desc. 110 ft.
- 24.00 Draw, course NE. Asc. 40 ft.
- 40.07 Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the

Survey of the
Subdivision of T. 33 N., R. 9 W.

Chains.

ground, 16 ins. in a mound of stone, 2 ft. base, for $\frac{1}{4}$ sec. cor.; marked on brass cap

$\frac{1}{4}$ S 8
S17
1921

From which

A cedar, 24 ins. diam., partly dead, brs. N.49 $\frac{1}{2}$ °E.,
87 lks. dist., marked $\frac{1}{4}$ S8 BT.

A cedar, 12 ins. diam., brs. S.22 $\frac{1}{2}$ °W.,
113 lks. dist., marked $\frac{1}{4}$ S17 BT.

Continue ascent, 285 ft.

65.40 Spur, slopes NE. Desc. 25 ft.

69.40 Draw, course NE. Asc. 40 ft.

80.14 The cor. of secs. 7, 8, 17 and 18.

Land, broken.

Soil, rocky, 4th rate.

Timber, cedar and pinyon.

Undergrowth, sagebrush, Spanish bayonet and cactus.

N.89°52'W. on a random line, bet. secs. 7 and 18.

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

79.76 Fall 49 lks. N. of the cor. of secs. 7, 12, 13 and 18, on
the W. bdy. of Tp., which is an iron post, described
in Book "A".

Thence

N.89°47'E. on a true line, bet. secs. 7 and 18.

Over broken land, through scattering timber and under-
growth.

Asc.

6.75 Spur, slopes N. Desc. 60 ft.

15.75 Draw, course N. Asc.

23.75 Spur, slopes N. Desc. 20 ft.

34.75 Draw, course N. Asc. 30 ft.

39.76 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the
ground, 18 ins. in a mound of stone, with stone marked
cross (X) at foot of post, for $\frac{1}{4}$ sec. cor., marked on
brass cap

$\frac{1}{4}$ S 7
S18
1921

Continue ascent, 55 ft.

61.25 Ridge, brs. N. and S. Desc.

79.76 The cor. of secs. 7, 8, 17 and 18.

Land, broken.

Soil, rocky, 4th rate.

Timber, cedar and pinyon.

Undergrowth, sagebrush and cactus.

N.0°3'W. bet. secs. 7 and 8.

Over broken land, through scattering timber and under-
growth.

Asc. 70 ft.

7.60 Ridge, brs. NE. and SW. Desc. 115 ft.

21.00 Draw, course NE. Thence along E. slope.

33.60 Draw, course E. Asc. 85 ft.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the
ground, 20 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor.,
marked on brass cap

$\frac{1}{4}$
S 7 | S 8
1921

Survey of the
Subdivision of T. 33 N., R. 9 W.

Chains.

From which
 A cedar, 9 ins. diam., brs. N.63°E.,
 122 lks. dist., marked $\frac{1}{8}$ S BT.
 A cedar, 14 ins. diam., brs. S.52 $\frac{1}{2}$ °W.,
 128 lks. dist., marked $\frac{1}{8}$ S7 BT.
 Asc. 45 ft.
 58.00 Ridge, brs. E. and W. Desc. 110 ft.
 77.30 Draw, course SE. Asc. 35 ft.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 2 ins. in the
 ground, 32 ins. in a mound of stone, 5 ft. base, with
 stone marked cross (X) at base of post, for cor. of
 secs. 5, 6, 7 and 8, marked on brass cap

T33N R9W
 S 6 | S 5
 S 7 | S 8
 1921

Land, broken.
 Soil, rocky, 4th rate.
 Timber, cedar and pinyon.
 Undergrowth, sagebrush, dogwood and cactus.

40.00 S.89°53'E. on a random line, bet. secs. 5 and 8.
 Set temp. $\frac{1}{4}$ sec. cor.
 79.80 Intersect N. and S. line, 12 lks. S. of the cor. of secs.
 4, 5, 8 and 9.
 Thence
 N.89°58'W. on a true line, bet. secs. 5 and 8.
 Over broken land, through scattering timber and under-
 growth.
 Asc. 60 ft.
 10.00 Desc. 165 ft.
 19.80 Wash, course NE. Asc. 185 ft.
 23.80 Spur, slopes S. Desc. 80 ft.
 28.90 Draw, course SE. Asc. 100 ft.
 39.90 Set an iron post, 3 ft. long, 1 in. diam., in a mound of
 stone, 30 ins. high, 4 ft. base, for $\frac{1}{4}$ sec. cor.,
 marked on brass cap

$\frac{1}{4}$ S 5
 $\frac{1}{4}$ S 8
 1921

From which
 A pinyon, 8 ins. diam., brs. N.23 $\frac{1}{2}$ °E.,
 62 lks. dist., marked $\frac{1}{8}$ S5 BT.
 A cedar, partly dead, 18 ins. diam., brs. S.55 $\frac{1}{2}$ °W.,
 25 lks. dist., marked $\frac{1}{8}$ S8 BT.
 Continue ascent, 40 ft.
 43.00 Spur, slopes N. Desc. 35 ft.
 49.30 Draw, course NE. Asc. 120 ft.
 73.80 Spur, slopes SE. Desc. 40 ft.
 79.80 The cor. of secs. 5, 6, 7 and 8.
 Land, broken.
 Soil, rocky, 4th rate.
 Timber, cedar and pinyon.
 Undergrowth, sagebrush, Spanish bayonet and cactus.

40.00 S.89°47'W. on a random line, bet. secs. 6 and 7.
 Set temp. $\frac{1}{4}$ sec. cor.
 79.50 Fall 2 lks. N. of the cor. of secs. 1, 6, 7 and 12, on
 the W. bdy. of Tp., which is an iron post, described
 in Book "A".
 Thence

Survey of the
Subdivision of T. 33 N., R. 9 W.

Chains.

N. 89° 46' E. on a true line, bet. secs. 6 and 7.
Over broken land, through scattering timber and under-
growth.

Asc.

3.30 Spur, slopes NE. Desc. 70 ft.

16.50 Draw, course NE. Asc.

23.00 Spur, slopes NE. Desc. 90 ft.

36.20 Draw, course N. Asc. 45 ft.

39.50 Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the
ground, 20 ins. in a mound of stone, with stone marked
cross (X) at base of post, for $\frac{1}{4}$ sec. cor., marked on
brass cap
$$\begin{array}{c} \frac{1}{4} \text{ S } 6 \\ \text{S } 7 \\ 1921 \end{array}$$

Continue ascent, 70 ft.

50.50 Spur, slopes N. Desc. 30 ft.

59.60 Draw, 10 lks. wide, course NW. Asc. 60 ft.

65.90 Ridge, brs. NE. and S. Desc. 70 ft.

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

Land, broken.

Soil, rocky, 4th rate.

Timber, cedar and pinyon.

Undergrowth, sagebrush and cactus.

40.00 N. 0° 12' E. on a random line, bet. secs. 5 and 6.

79.70 Set temp. $\frac{1}{4}$ sec. cor.Intersect the cor. of secs. 5, 6, 31 and 32, on the N.
bdy. of Tp., which is an iron post, hereinbefore de-
scribed.

Thence

S. 0° 12' W. on a true line, bet. secs. 5 and 6.

Over rolling and broken land, through scattering timber
and undergrowth.

Asc., 120 ft.

4.20 Rim of mesa, brs. E. and NW. Continue ascent, 70 ft.

22.70 Continue very gradual ascent.

39.70 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the
ground, 20 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor.,
marked on brass cap
$$\begin{array}{c} \frac{1}{4} \\ \text{S } 6 \text{ | } \text{S } 5 \\ 1921 \end{array}$$

From which

A cedar, 12 ins. diam., brs. S. 70 $\frac{1}{2}$ ° E.,
157 lks. dist., marked $\frac{1}{4}$ S 5 BT.A cedar, 10 ins. diam., brs. N. 32 $\frac{1}{2}$ ° W.,
67 lks. dist., marked $\frac{1}{4}$ S 6 BT.

61.70 Ridge, brs. E. and W. Desc. 75 ft.

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

Land, rolling and broken.

Soil, rocky, 4th rate.

Timber, cedar and pinyon.

Undergrowth, sagebrush and cactus.

The continued satisfactory adjustment of the solar
transits during the survey of this township is indicated
from field tests as described in Books "H" and "I".

GENERAL DESCRIPTION.

This township consists of rolling, broken and mountainous land, covered with a scattering growth of cedar and pinyon timber and sagebrush, Spanish bayonet, scrub oak, greasewood, black brush, quinine brush and cactus undergrowth. The soil is rocky, 3rd and 4th rates. A lava flow covering several sections is found in the southeastern part of the Tp. Whitmore Wash and its tributaries furnishes the principal drainage of the township. There are no settlers. Water is found in sec. 2, at the end of a pipe line. No evidences of mineral were observed during the survey

BOOK 3617

4-680

FIELD ASSISTANTS. to
Dupree R. Averill and William E. Hiester, U.S. Surveyors.

NAMES.	CAPACITY.
A. J. Chalfant	Chainman.
George M. Ginochio	Chainman.
J. A. Redwine	Chainman.
Wilson Searles	Chainman.
Clifton Hildebrand	Chainman.
Lewis E. Ruddick	Chainman.
L. M. Brumfield	Chainman.
J. S. Dameron	Chainman.
Walter Thomas	Chainman.
J. Burrows	Chainman.
Henry Hiester	Chainman.
L. S. Ruddick	Flagman.
R. J. Yates	Flagman.
Joe Mancha	Cornerman.
Edward Hunt	Cornerman.
George Tucker	Flagman.
C. McLarty	Flagman.
Lowell McAllister	Cornerman.
Hale Pierce	Cornerman.
William Baker	Axman.
Henry McKelvey	Axman.

BOOK 3617

CERTIFICATE OF UNITED STATES SURVEYOR.

I, Dupree R. Averill, U. S. Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 72, Arizona

bearing date of the 12th day of October, 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

The Second Guide Meridian West Through Ts. 33 N.

The 8th. Standard Parallel North Through R. 9 W.

The North Boundary of T. 33 N., R. 9 W. and

The Subdivisions of T. 33 N., R. 9 W.

of the Gila and Salt River

Base and Meridian, in the State of Arizona, which are represented in

and by diagram on page 1 hereof

the foregoing field notes/as having been executed by me, and under my direction; and that all the corners of

said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instruc-

tions, and the special written instructions of the U. S. Surveyor General, for Group 72, Arizona

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

Phoenix Arizona
January 3, 1924

Dupree R. Averill
U. S. Surveyor.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

~~The foregoing field notes of the survey of _____, 19____
executed by _____
under his special instructions dated _____, 19____, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys
they describe, are hereby approved.

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

U. S. Surveyor General.~~

BOOK 3637

4-680

FIELD ASSISTANTS.to
Dupree R.Averill and William E.Hiester,U.S.Surveyors.

NAMES.	CAPACITY.
See page 57 of this book	

60

BOOK 3617

CERTIFICATE OF UNITED STATES SURVEYOR.

I, William E. Hiester, U. S. Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 72, Arizona bearing date of the 12th day of October, 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

The Subdivisions of

T.33 N., R.9 W.

of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented in the foregoing field notes and by diagram on page 1 hereof as having been executed by me, and under my direction; 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 Group 72, Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Wolf Hole Arizona
March 14 1924

William E. Hiester
U. S. Surveyor.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, May 15, 1924.

The foregoing field notes of the survey of
The Second Guide Meridian West through Ts.33 N.,
The 8th. Standard Parallel North through R.9 W.,
The North Boundary of T.33 N., R.9 W. and
The Subdivisions of T.33 N., R.9 W. of the Gila and Salt River
Base and Meridian in the State of Arizona

executed by Dupree R. Averill and William E. Hiester, U.S. Surveyors under the special instructions dated October 12, 1916 for Group 72, Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Charles W. Doolittle
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.