

3255

Book "N"

4-679

BOOK 3255

(Subdivisions)

FIELD NOTES

RETRACEMENT
OF THE ~~SURVEY OF THE~~ OF

Part of the boundary of the HUALPAI INDIAN RESERVATION, within

TOWNSHIP 30 NORTH, RANGE 15 WEST,

of the Survey of the

Subdivision lines of that part of

TOWNSHIP 30 NORTH, RANGE 15 WEST,

situated outside the bdy. of the Hualpai Indian Reservation,

and of the Survey of

Part of the Subdivision lines of

TOWNSHIP 30 NORTH, RANGE 16 WEST.

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

E. J. Lange, U.S. Surveyor, (30N., 15&16 W.)

D.R. Averill, U.S. Transitman, (30N. 15W. H.I.R. bdy.)

S. Frank Walters, U.S. Transitman, (30N., 15&16 W., H.I.R. bdy.)

James C. Hooper, U.S. Transitman, (30N., R. 16W.)

~~In the capacity of U.S. Surveyor~~, under instructions dated January 7, 1915,

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

Group No. 45, which were approved by the Commissioner of the General Land

Office, January 26, 1915.

Retracement & Survey commenced June 2, 1916

Retracement & Survey completed May 16, 1917

Executed under Assignment

Instructions dated Dec. 10, 1915, May 8, 1916 and Dec. 7, 1916.

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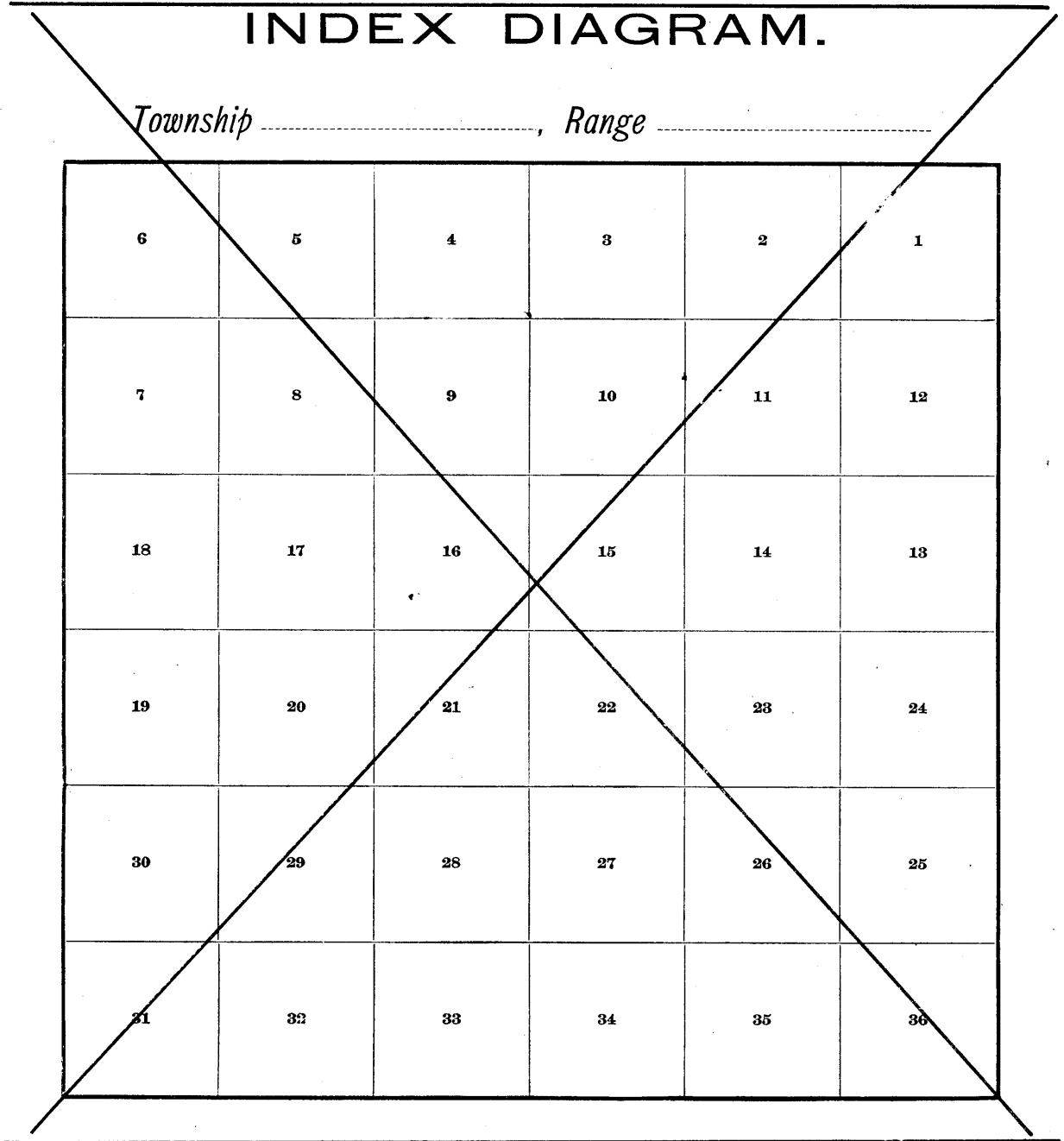
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Book "N"

Group 45 - - - Arizona.

SEE SPECIAL INDEX DIAGRAM.



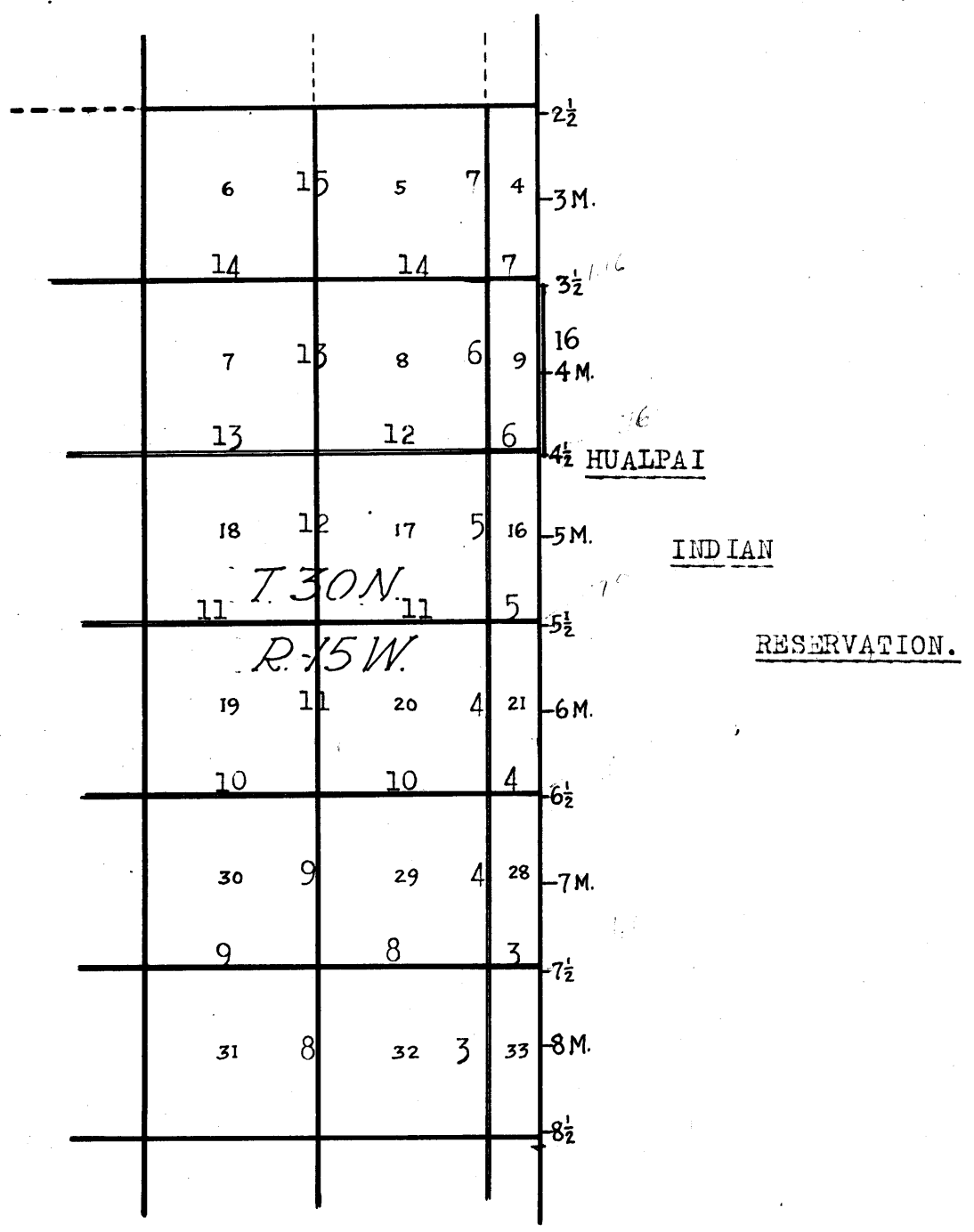
Book "N"
Group 45 - - - Arizona.

SPECIAL INDEX DIAGRAM.

Part I.

T.30N. R.16W. Indexed on page 2.	T.30N. R.15W. Indexed below
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BOOK 3255



- Subdivision lines surveyed under this group.
- Township boundaries surveyed under this group.
Notes in Book "A."
- Hualpai Indian Reservation bdy. retraced.
Notes in this book.
- Accepted surveys.
- Unsurveyed.

Book "N"
Group 45 - - - Arizona.

SPECIAL INDEX DIAGRAM.

PART II.

BOOK 3255

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<i>T. 30N. R. 16W.</i>											
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----- Subdivision lines surveyed or resurveyed under this group.

==== Township boundaries surveyed under this group. Notes in Book "A."

----- Unsurveyed.

Subdivision of part of Township 30 North, Range 15 West. 3.

Chains.

Surveys hereinafter described, executed by E.J.Lange, U.S. Surveyor, and D.R.Averill, and S.Frank Walters, U.S. Transitmen, on dates shown on diagrams on pages 53, 55 and 57 hereof, using Young and Sons' light mountain transits Nos. 8524 and 8489, and Buff Solar Transit No. 9985, respectively.

The initials "E.J.L." "D.R.A.," and "S.F.W." are inserted at the beginning and ending of those portions of the notes describing the surveys executed by E.J.Lange, U.S. Surveyor, and D. R. Averill and S.Frank Walters, U.S. Transitmen, respectively.

Recent and repeated tests of the instruments on a meridian established by observations on Polaris at elongation, demonstrate that they are in satisfactory adjustment.

D.R.A. From the cor. of secs. 4, 5, 32 and 33 on the S. bdy. of the Tp., which is an iron post, described in Book "A," N. 0° 3' W., bet. secs. 32 and 33.

- Over gently rolling land, thru. scattering undergrowth. Ascend 95 ft.
- 10.00 Descend 110 ft.
- 25.00 Enter valley, course E.
- 30.00 Leave valley, course E. Ascend 135 ft.
- 40.00 Ridge, brs. N. 20° E. and S. 20° W.

Set an iron post, 3 ft. long, 1 in. in diam., 15 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

1
S32 S33
1916

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

- Descend 115 ft.
- 50.00 Thence over level land.
- 77.23 Road brs. E. to Duncan Ranch and W. to New Water Springs.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., in a mound of stone, for cor. of secs. 28, 29, 32 and 33, marked on brass cap,

T30N R15W
S29 S28
S32 S33
1916

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

Land, level and gently rolling.
Soil, rocky, 4th rate.
No timber.
Undergrowth, catclaw and cactus.

- East, on a true line, bet. secs. 28 and 33.
- Over level land, thru. scattering undergrowth.
- 17.90 Intersect Hualpai Indian Reservation boundary, 0.68 chs. N. of the 7½ mile cor., which is a limestone, 6x10x8 ins., above ground, firmly set, marked and witnessed, as described by the surveyor general.
- At the point of intersection, set an iron post, 3 ft. long, 2 ins. in diam., in a mound of stone, for closing cor. of secs. 28 and 33, marked on brass cap,

T30N
R15W H
CC S28 I
S33 R
1916

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

Land, level.

4. Subdivision of part of Township 30 North, Range 15 West.

Chains.

Soil, rocky, 4th rate.
No timber.
Undergrowth, catclaw and cactus.

From the cor. of secs. 28, 29, 32 and 33,
N. 0° 3' W., bet. secs. 28 and 29.
Over rolling land, thru. scattering undergrowth.

- 10.00 Ascend 140 ft.
- 19.77 Ridge, brs. N. 45° E. and S. 45° W. Descend 45 ft.
- 29.28 Wash, course E. Thence over gently rolling land.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

S29 S28

1916

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

- Descend 65 ft,
- 49.95 Wash, course N. 50° E. Ascend 90 ft.
- 63.38 Ridge, brs. E and W. Descend 65 ft.
- 69.89 Thence over level land.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for cor. of secs. 20, 21, 28 and 29, marked on brass cap,

T30N R15W

S20 S21

S29 S28

1916

Dig pits 18x18x12 ins., in each sec. 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, rolling and gently rolling.
Soil, sandy and rocky; 3rd and 4th rate.
No timber.
Undergrowth, catclaw and cactus.

- East, on a true line, bet. secs. 21 and 28.
Over level land, thru. scattering undergrowth.
- 17.82 Intersect Hualpai Indian Reservation boundary, 0.66 chs. N. of the 6 $\frac{1}{2}$ mile cor., which is a limestone, 6x10x6 ins. above ground, firmly set, marked and witnessed, as described by the surveyor general.
At the point of intersection, set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for closing cor. of secs. 21 and 28, marked on brass cap,

T30N
R15W | H

CC — S21 | I

S28 | R

1916

Dig pits 24x18x12 ins., crosswise on each line, N. and S. 3 ft., and W. of post 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor. Land, level. Soil, sandy and rocky; 3rd and 4th rate.
No timber. Undergrowth, catclaw and cactus.

- From the cor. of secs. 20, 21, 28 and 29,
N. 0° 3' W., bet. secs. 20 and 21.
Over rolling land, thru. scattering undergrowth.
Ascend 175 ft.
- 34.82 Spur, slopes E. Descend 75 ft.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

Chains.

$\frac{1}{4}$
 S20 | S21
 1916

49.97 And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 63.71 Valley, 5 chs. wide, slopes E. Asc. 213 ft.
 80.00 Ridge, brs. N.30° E, and S.30° W. Desc. 70 ft.
 Set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for cor. of secs. 16, 17, 20 and 21, marked on brass cap

T30N R15W
 S17 | S16
 S20 | S21
 1916

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

5.88 East on a true line, bet. secs. 16 and 21.
 17.68 Over rolling land, through scattering undergrowth.
 Asc. 75 ft.
 Spur, slopes NE. Desc. 100 ft.
 Intersect Hualpai Indian Reservation Boundary. 0.70 chs. N. of the $5\frac{1}{2}$ mile cor., which is a limestone, 6 X 14 X 6 ins. above ground, firmly set, marked and witnessed as described by the Surveyor-General.
 At the point of intersection, set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for closing cor. of secs. 16 and 21, marked on brass cap

T30N
 R15W | H
 S16
 CC — S21 | I
 1916 | R

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

10.00 From the cor. of secs. 4, 5, 8 and 9,
 23.00 N.0° 3' W., bet. secs. 16 and 17.
 40.00 Over rolling land, through scattering undergrowth.
 Asc. 90 ft.
 Thence over gently rolling land.
 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
 S17 | S16
 1916

44.98 And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Desc. 35 ft.
 Wash, course N.30° E. Asc. 75 ft.

6 Subdivision of Part of T. 30 N., R. 15 W.

Chains.
 50.00 Desc. 85 ft.
 55.00 Thence over gently rolling land.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for cor. of secs. 8, 9, 16 and 17, marked on brass cap

T30N	R15W
S8	S9
<hr/>	
S17	S16
1916	

And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
 Land, rolling and gently rolling.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, cactus.

17.67 East on a true line, bet. secs. 9 and 16.
 Over rolling land, through scattering undergrowth.
 Intersect Hualpai Indian Reservation boundary, 0.76 chs. N.0°7'E. of the 4¼ mile cor., which is a limestone, 6 X 14 X 8 ins. above ground, firmly set, marked and witnessed as described by the Surveyor-General.
 At the point of intersection, set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for closing cor. of secs. 9 and 16, marked on brass cap

T30N	R15W	H
	S9	
CC	S16	I
	1916	R

And raise a mound of stone, 2 ft base, 1½ ft. high, W. of cor.
 Land, rolling.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, cat claw and cactus.

10.00 From the cor. of secs. 8, 9, 16 and 17,
 35.00 N.0° 3' W., bet. secs. 8 and 9.
 40.00 Over rolling land, through scattering undergrowth.
 Asc. 35 ft.
 Desc. 155 ft.
 Asc. 190 ft.
 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for ¼ sec. cor., marked on brass cap

S	8	S	9
<hr/>			
1916			

And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
 Desc. 130 ft.
 50.00 Set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for cor. of secs. 4, 5, 8 and 9, marked on brass cap
 80.00

T30N	R15W
S5	S4
<hr/>	
S8	S9
1916	

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

Subdivision of Part of T. 30 N., R. 15 W. 7

Chains.

Land, rolling.
Soil, rocky, 4th rate.
No timber.
Undergrowth, black brush, dog wood, Spanish bayonet and century plant.

D.R.A.

S.F.W.

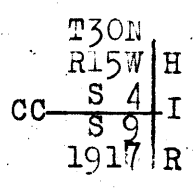
East on a true line, bet. secs. 4 and 9.
Over rolling land, through scattering undergrowth.

2.80
5.00
13.00
17.67

Asc. 20 ft.
Desc. 10 ft.
Asc. 40 ft.
Desc. 115 ft.

Intersect Hualpai Indian Reservation Boundary, 1.16 chs. N. of the 3/4 mile cor., which is a cross on a ledge, marked and witnessed as described by the Surveyor-General.

At the point of intersection, set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for closing cor. of secs. 4. and 9, marked on brass cap



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

Land, rolling.
Soil, rocky, 4th rate.
No timber.
Undergrowth, cat claw and cactus.

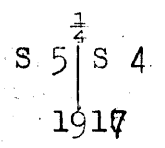
40.00
80.09

From the cor. of secs. 4, 5, 8 and 9, N. 0° 3' W., on a random line, bet. secs. 4 and 5. Set temp. 1/4 sec. cor. Intersect N. bdy. of Tp., 26 lks. W. of the cor. of secs. 4, 5, 32 and 33, which is an iron post, described in Book "A."

Thence S. 0° 8' W., on a true line, bet. secs. 4 and 5. Over rolling and mountainous land, through scattering undergrowth.

40.09

Asc. 360 ft., on spur, slopes N. Leave spur, slopes N., from S. 20° E. Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for 1/4 sec. cor., marked on brass cap



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

55.00
65.00
80.09

Desc. 100 ft
Asc. 45 ft.
Thence over rolling land.
The cor. of secs. 4, 5, 8 and 9
Land, rolling and mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, cat claw and cactus.

S.F.W.

Subdivision of Part of T. 30 N., R. 15 W.

Chains.	<p>E.J.L. From the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the Tp., which is an iron post, described in Book "A", N.0° 3' W., bet. secs. 31 and 32. Over mountainous land, through scattering timber and undergrowth. Desc. 40 ft. 4.10 Gulch course S.80° E. Asc. 230 ft. 12.00 Top of cliff, brs. E. and W. 14.30 Ridge, brs. E. and W. Desc. 140 ft. 24.00 Asc. 80 ft. 28.85 Desc. 85 ft. 38.00 Draw, course N.45° E. Asc. 30 ft. 40.00 Set an iron post, 3 ft. long, 1 in. diam., 5 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap</p> <p style="text-align: center;"> $\frac{1}{4}$ S31 S32 1916</p> <p>From which A juniper, 12 ins. diam., brs. N.67° E., 82 lks. dist., marked $\frac{1}{4}$S32 BT. A juniper, 16 ins. diam., brs. N.34° W., 41 lks. dist., marked $\frac{1}{4}$S31 BT.</p> <p>42.00 Desc. 15 ft. 48.75 Draw, course S.80° E. Asc. 25 ft. 50.00 Desc. 15 ft. 55.00 Wash, course N.80° E. Asc. 265 ft. 66.50 Top of cliff, brs. E. and W. Continue ascent. 72.50 Ridge, brs. E. and W. Desc. 200 ft. 80.00 Set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for cor. of secs. 29, 30, 31 and 32, marked on brass cap</p> <p style="text-align: center;"> T30 N R15W S30 S29 S31 S32 1916</p> <p>And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Land, mountainous. Soil, rocky, 3rd and 4th rates. Timber, pinion and juniper. Undergrowth, sagebrush, cactus and greasewood.</p> <p style="text-align: right;">E.J.L.</p>
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Chains.	<p>D.R.A. East on a random line, bet. secs. 29 and 32. 40.00 Set temp. $\frac{1}{4}$ sec. cor. 79.90 Intersect N. and S. line, 12 lks. N. of the cor. of secs. 28, 29, 32 and 33. Thence N.89° 55' W., on a true line, bet. secs. 29 and 32. Over level land, through scattering undergrowth. 30.00 Road, brs. N.65° W. to New Water Springs and S.65° E. to Duncan Ranch. 39.95 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap</p> <p style="text-align: center;"> $\frac{1}{4}$ S29 S32 1916</p> <p>And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high. N. of cor. Asc. 185 ft. 54.46 Desc. 165 ft. 79.90 The cor. of secs. 29, 30, 31 and 32. Land, level and rolling.</p>
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Subdivision of Part of T. 30 N., R. 15 W.

Chains.

Soil, rocky, 4th rate.
No timber.
Undergrowth, cat claw and cactus.
Fair stand of bunch grass.

D.R.A.

E.J.L.

40.00 West on a random line, bet. secs. 30 and 31.
79.85 Set temp. $\frac{1}{4}$ sec. cor.
Intersect W. bdy. of Tp., 5 lks. N. of the cor. of secs.
25, 30, 31 and 36, which is an iron post, described in
Book "A."

Thence

29.85 N. $89^{\circ} 58'$ E., on a true line, bet. secs. 30 and 31.
39.85 Over rolling land, across high plateau, through scattering
timber and undergrowth.
Leave plateau, brs. NE. and SW. Desc. 490 ft.
Set an iron post, 3 ft. long, 1 in. diam., in a mound of
stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$ S30
S31
1916

69.85 And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.
74.85 of cor.
79.85 Draw, course N. 80° E. Asc.

74.85 Desc. 25 ft.
79.85 The cor. of secs. 29, 30, 31 and 32.
Land, mountainous and rolling.
Soil, rocky, 4th rate.
Timber, pinion and juniper.
Undergrowth, sagebrush and greasewood.

E.J.L.

D.R.A.

1.10 N. $0^{\circ} 3'$ W., bet. secs. 29 and 30.
15.80 Over mountainous land, through scattering timber and under-
30.50 growth.
40.00 Desc.
Draw, course E. Asc. 350 ft.
Gulch, course S. 15° E. Continue ascent.
Spur, slopes S. 60° E. Desc. 345 ft.
Set an iron post, 3 ft. long, 1 in. diam., in a mound of
stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

S30 | S29
1916

48.50 And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.
51.00 of cor.
60.00 Wash, course N. 80° E.
80.00 Desc. 70 ft.
Draw, course NW. Road in draw, brs. NW. to New Water Springs
and SE. to Duncan Ranch. Thence over gently rolling land.
Set an iron post, 3 ft. long, 2 ins. diam., in a mound of
stone, for cor. of secs. 19, 20, 29 and 30, marked on
brass cap

T30N R15W
S19 | S20
S30 | S29
1916

And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.
of cor.
Land, mountainous and gently rolling.
Soil, rocky, 4th rate.
Timber, scattering pinion and juniper.

Chains.	Undergrowth, black brush, dog wood, cactus and Spanish Bayonet.
40.00 79.98	S.89° 55' E., on a random line, bet. secs. 20 and 29. Set temp. $\frac{1}{4}$ sec. cor. Intersect N. and S. line, 4 lks. S. of the cor. of secs. 20, 21, 28 and 29. Thence N.89° 57' W., on a true line, bet. secs. 20 and 29. Over gently rolling land, through scattering undergrowth. Asc. 210 ft.
20.00 39.99	Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap
	$\begin{array}{r} \frac{1}{4} S20 \\ \frac{1}{4} S29 \\ \hline 1916 \end{array}$
45.00 79.98	And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Spur, slopes NE. Desc. 145 ft. The cor. of secs. 19, 20, 29 and 30. Land, rolling and gently rolling. Soil, rocky, 3rd rate. No timber. Undergrowth, cat claw and cactus.
	D.R.A.
40.00 79.92	E.J.L. S.89° 58' W., on a random line, bet. secs. 19 and 30. Set temp. $\frac{1}{2}$ sec. cor. Intersect W. bdy. of Tp., 2 lks. S. of the cor. of secs. 19, 24, 25 and 30, which is an iron post, described in Book "A."
1.50 21.00	Thence N.89° 59' E., on a true line, bet. secs. 19 and 30. Over mountainous land, through scattering undergrowth. Draw, course NE. Asc. 140 ft. Top of cliff, brs. N.25° E. and S.25° W. Also spur slopes N.25° E. New Water Springs brs. N.115 chs. dist. Desc. 70 ft.
26.30 31.00 34.00 39.92	Draw, course N. Asc. 35 ft. Spur, slopes N. Desc. 65 ft. Draw, course N.20° E. Asc. 70 ft. Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap
	$\begin{array}{r} \frac{1}{4} S19 \\ \frac{1}{4} S32 \\ \hline 1916 \end{array}$
40.56 45.00 52.00 55.00 64.00 75.00 79.92	And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Top and end of spur, slopes N. Desc. 120 ft. Top of cliff, brs. NE. and SW. Contine descent. Draw, course N. Thence along N. slope. Desc. 85 ft. Draw, course NE. Thence over rolling land. Wide draw, course N. Road in draw, brs. N. to New Water Springs and S. to Duncan Ranch. The cor. of secs. 19, 20, 29 and 30. Land, rolling and mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, yucca, sagebrush and cactus.
	E.J.L.

Subdivision of Part of T. 30 N., R. 15 W.

Chains. D.R.A.
 N.0° 3' W., bet. secs. 19 and 20.
 Over rolling land, through dense undergrowth.
 10.00 Asc. 145 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., in a mound of
 stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
 S19 | S20
 1916

And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.
 of cor.
 Desc. 105 ft.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., in a mound of
 stone, for cor. of secs. 17, 18, 19 and 20, marked on
 brass cap

T30N R15W
 S18 | S17
 S19 | S20
 1916

And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.
 of cor.
 Land, rolling.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, cactus, yucca and rabbit brush.

40.00 S.89° 57' E., on a random line, bet. secs. 17 and 20.
 79.93 Set temp. $\frac{1}{4}$ sec. cor.
 Intersect N. and S. line, 2 lks. S. of the cor. of secs.
 16, 17, 20 and 21.
 Thence
 N.89° 58' W., on a true line, bet. secs. 17 and 20.
 Over rolling land, through scattering undergrowth.
 Asc. gradually.

15.60 Ridge, brs. N. Desc. 190 ft.
 30.00 Valley, 5 chs. wide, slopes N. Asc. 75 ft.
 39.96 $\frac{1}{2}$ Set an iron post, 3 ft. long, 1 in. diam., in a mound of
 stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$ S17
 $\frac{1}{4}$ S20
 1916

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

41.15 Ridge, brs. N. Desc. 170 ft.
 64.95 Thence over gently rolling land.
 79.93 The cor. of secs. 17, 18, 19 and 20.
 Land, rolling and gently rolling.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, cat claw and cactus.
 Fair stand of grass.

40.00 S.89° 59' W., on a random line, bet. secs. 18 and 19.
 79.90 Set temp. $\frac{1}{4}$ sec. cor.
 Intersect W. bdy. of Tp., 7 lks. S. of the cor. of secs.
 13, 18, 19 and 24, which is an iron post, described in
 Book "A."
 Thence
 S.89° 58' E., on a true line, bet. secs. 18 and 19.
 Over mountainous land, through scattering undergrowth.
 Asc.

Chains.

1.45 Ridge, brs. N. and S. Desc. 635 ft.
 39.90 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$ S18
 $\frac{1}{4}$ S19
 1916

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

54.90 Thence over gently rolling land.
 79.90 The cor. of secs. 17, 18, 19 and 20.
 Land, rolling and mountainous.
 Soil, rocky, 4th rate.

No timber.
 Undergrowth, yucca, Spanish bayonet and dog wood.

N. $0^{\circ} 3'$ W., bet. secs. 17 and 18.
 Over rolling land, through scattering undergrowth.
 Desc. 50 ft.

19.95 Foot of descent; thence over level land.
 21.00 Center of wide valley, slopes NW. Asc. 40 ft.
 34.95 Desc. 45 ft.

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

$\frac{1}{4}$
 S18 | S17
 1916

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

Asc. 20 ft.
 50.35 Ridge, brs. E. and W. Desc. 125 ft.
 55.20 Wash, course E. Asc. 35 ft.
 64.95 Desc. 105 ft.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 7, 8, 17 and 18, marked on brass cap

T30N R15W
 S 7 | S 8
 S18 | S17
 1916

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

Land, rolling.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, yucca, Spanish bayonet and dog wood.

40.00 S. $89^{\circ} 58'$ E., on a random line, bet. secs. 8 and 17.
 79.93 Set temp. $\frac{1}{4}$ sec. cor.
 Intersect N. and S. line, 2 lks. N. of the cor. of secs. 8, 9, 16 and 17.

Thence
 N. $89^{\circ} 57'$ W., on a true line, bet. secs. 8 and 17.
 Over rolling and mountainous land, through scattering undergrowth.
 Desc. gradually.

Subdivision of Part of T. 30 N., R. 15 W.

Chains.
24.96
39.96 1/2

Valley, 15 chs. wide, slopes N. Asc. 70 ft.
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 S 8
S 17
1916

56.40
64.58
79.93

Dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
Ridge, brs. N. and S. Desc. 165 ft.
Wash, course N. 10° E. Asc. 145 ft.
The cor. of secs. 7, 8, 17 and 18.
Land, rolling and mountainous.
Soil, rocky, 4th rate.
Timber, none.
Undergrowth, yucca, Spanish bayonet and dog wood.

40.00
79.93

N. 89° 58' W., on a random line, bet. secs. 7 and 18.
Set temp. 1/4 sec. cor.
Intersect W. bdy. of Twp., 2 lks. N. of the cor. of secs. 7, 12, 13 and 18, which is an iron post, described in Book "A."

39.93

Thence
S. 89° 59' E., on a true line, bet. secs. 7 and 18.
Over rolling and mountainous land, through scattering undergrowth.
Asc. gradually, 80 ft.
Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for 1/4 sec. cor., marked on brass cap

1/4 S 7
S 18
1916

45.00
54.70
66.30
74.20
79.93

And raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.
Desc. 110 ft.
Wash, course N. Asc. 165 ft.
Ridge, brs. N. and S. Desc. 75 ft.
Asc. 55 ft.
The cor. of secs. 7, 8, 17 and 18.
Land, rolling and mountainous.
Soil, rocky, 4th rate.
Timber, none.
Undergrowth, yucca, Spanish bayonet and dog wood.

10.00
19.00
24.75
34.20
40.00

N. 0° 3' W., bet. secs. 7 and 8.
Over rolling land, through scattering undergrowth.
Desc. 130 ft.
Asc. 35 ft.
Desc. 40 ft.
Wash, course N. 15° E. Asc. 175 ft.
Ridge, brs. N. 20° E. Desc. 15 ft.
Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for 1/4 sec. cor., marked on brass cap

1/4 S 7 | S 8
1916

And raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.
Asc. 75 ft.

Chains.
 48.00 Ridge, brs. E. and W. Desc. 185 ft.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for cor. of secs. 5, 6, 7 and 8, marked on brass cap

$$\begin{array}{r} T30N R15W \\ \underline{S 6 S 5} \\ S 7 S 8 \\ 1916 \end{array}$$

And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
 Land, rolling.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, yucca, Spanish bayonet and dog wood.
D.R.A.

E.J.L. & D.R.A.
 S.89° 57' E., on a random line, bet. secs. 5 and 8.
 40.00 Set temp. ¼ sec. cor.
 80.04 Intersect N. and S. line, 11 lks. S. of the cor. of secs. 4, 5, 8 and 9.
 Thence
 S.89° 58' W., on a true line, bet. secs. 5 and 8.
 Over broken land, through scattering undergrowth.
 Desc. 30 ft.
 5.00 Asc. 10 ft.
 7.10 Desc. 25 ft.
 10.00 Asc. 30 ft.
 18.00 Desc. 15 ft.
 40.02 (E.J.L.) Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for ¼ sec. cor., marked on brass cap

$$\begin{array}{r} \frac{1}{4} S 5 \\ \underline{\quad S 8} \\ 1916 \end{array}$$

And raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
 Thence over gently rolling land.
 57.00 Desc. 285 ft., over cliffs, br. N.5° W. and S.5° E.
 68.30 Wash, course N. Asc. 195 ft.
 75.00 Spur, slopes N. Desc. 60 ft.
 80.04 The cor. of secs. 5, 6, 7 and 8.
 Land, broken and mountainous.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, black brush, Spanish bayonet, century plant and dog wood.
E.J.L. & D.R.A.

D.R.A.
 N.89° 59' W., on a random line, bet. secs. 6 and 7
 40.00 Set temp. ¼ sec. cor.
 80.21 Intersect W. bdy. of Tp., 11 lks. S. of the cor. of secs. 1, 6, 7 and 12, which is an iron post, described in Book "A".
 Thence
 S.89° 54' E., on a true line, bet. secs. 6 and 7.
 Over rolling land, through scattering undergrowth.
 Desc. 365 ft.
 40.21 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

$$\begin{array}{r} \frac{1}{4} S 6 \\ \underline{\quad S 7} \\ 1916 \end{array}$$

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

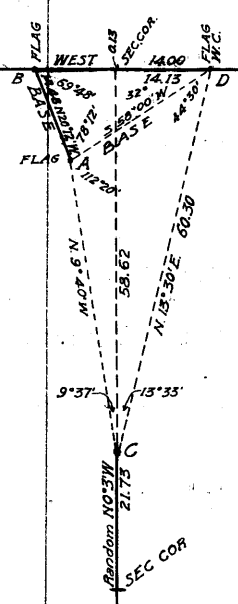
Subdivision of Part of T. 30 N., R. 15 W.

Chains.

80.21 Asc. 285 ft.
 The cor. of secs. 5, 6, 7 and 8.
 Land, rolling.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, yucca, and Spanish bayonet.

D.R.A.

21.73 S.F.W.
 N.0° 3' W., on a random line, bet. secs. 5 and 6.
 Triangulation point "C". From this point, flag at "D",
 the witness cor. to cor. of secs. 5, 6, 31 and 32, on
 the N. bdy. of the Tp., 14.00 chs. E. of the cor. of
 secs. 5, 6, 31 and 32, brs. N.13½° E. From "C", I set "A",
 a flag N.9° 40' W., about 40.00 chs.
 dist. From "A", flag "D" brs. N.
 58° E., and flag "B", on the N. bdy.
 of Tp., brs. N.20° 12' W., 14.48
 chs. dist. The distance from "C"
 to "D" is given as follows:



$$(1) \frac{14.48}{\sin. 32^\circ} = \frac{A - D}{\sin. 69^\circ 48'}$$

$$(2) \frac{A - D}{\sin. 23^\circ 10'} = \frac{C - D}{\sin. 112^\circ 20'}$$

Substituting in (2) the value of A - D from (1)

$$\frac{14.48 \times \sin. 69^\circ 48'}{\sin. 32^\circ} = \frac{C - D}{\sin. 112^\circ 20'}$$

$$C - D = \frac{14.48 \times \sin. 69^\circ 48' \times \sin. 112^\circ 20'}{\sin. 32^\circ \times \sin. 23^\circ 10'} \text{ or,}$$

by logarithms,

log. 14.48	=	1.160769
log. sin. 69° 48'	=	9.972431
log. sin. 112° 20'	=	9.966136
colog. sin. 32°	=	0.275790
colog. sin. 23° 10'	=	0.405158

$$1.780284 = \log. 60.30 \text{ chs.}$$

The distance on the random line bet. secs. 5 and 6, to the
 N. bdy. of the Tp., is given by 60.30 X cos. 13° 33',
 and the falling is found from 60.30 X sin. 13° 33'.
 60.30 X cos. 13° 33' = 60.30 X .97217 = 58.62.
 60.30 X sin. 13° 33' = 60.30 X .23429 = 14.13
 58.62 + 21.73 = 80.35

40.00 Set temp. ¼ sec. cor.
 80.35 Intersect N. bdy. of Tp., 13 lks. W. of the cor. of secs.
 5, 6, 31 and 32, which is an iron post, described in
 Book "A."

Thence
 40.35 S.0° 3' W., on a true line, bet. secs. 5 and 6.
 Over mountainous land, through scattering undergrowth.
 Set an iron post, 3 ft. long, 1 in. diam., in a mound of
 stone, for ¼ sec. cor., marked on brass cap

Chains	
	And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Asc. 70 ft.
42.95	Spur, slopes E. Desc. 60 ft.
46.85	Ravine, course E. Asc. 200 ft.
58.60	Spur, slopes E. Desc. 55 ft.
63.35	Thence along E. slope.
69.35	Spur, slopes S.40° E. Desc. 125 ft.
72.05	Gulch, course E. Asc. 135 ft.
77.85	Spur, slopes W. Desc. 15 ft.
80.35	The cor. of secs. 5, 6, 7 and 8.
	Land, rolling and mountainous.
	Soil, rocky, 4th rate.
	No timber.
	Undergrowth, yucca, Spanish bayonet and cactus.
	S.F.W.

Retracement of a Portion of the Boundary
of the

Hualpai Indian Reservation. Boundary.

S.F.W.

From the 4½-mile cor., on the Hualpai Indian Reservation Boundary, which is a stone, 8 X 12 X 14 ins. above ground, firmly set, marked and witnessed as described by the Surveyor-General.

North on a random line,

Over rolling land, through scattering undergrowth.

Desc. 95 ft.

22.20 Draw, course N.35° E. Asc. 40 ft.

30.00 Desc. 65 ft.

39.90 Fall 8 lks. W. of the 4 mile cor., which is a cross on a rock in place, witnessed as described by the Surveyor-General.

The true course and distance of this half mile is therefore N.0° 7' E., 39.90 chs.

From the 4 mile cor.,

North on a random line.

Desc.

3.80 Gulch, course N.. Comes from SW. Thence along E. slope.

10.10 Desc. 40 ft.

15.10 Same gulch, course NE. Asc. 155 ft.

28.90 Spur, slopes E. Desc. 175 ft.

38.20 Draw, course N.40° E. Asc. 30 ft.

39.85 Fall 10 lks. W. of the 3½ mile cor., which is a cross on a ledge, witnessed as described by the Surveyor-General.

The true course and distance of this half mile is therefore N. 0° 9' E., 39.85 chs.

Land, rolling.

Soil, rocky, 4th rate.

No timber.

Undergrowth, scrub oak and cactus.

S.F.W.

General Description.

The southern portion of this township is rolling mesa land, draining to the north and north east. A high divide follows along the W. bdy., which is simply a ridge and not the divide of the Grand Wash Cliffs, which is farther west. The northern portion is very rough and broken, the drains from the south forming deep box canyons as they run north, the sides of which are perpendicular walls, from one to five hundred feet deep. There is scattering juniper timber in the southern portion and a fair stand of native grass. The northern part is barren rocks and sand, except for the cactus and black brush. There is a spring in the SW. $\frac{1}{4}$ of sec. 19, known as New Water Spring. It has been developed by cattlemen by driving a tunnel. The water is piped about 100 yards down the canyon, to a corral and troughs. There are no settlers.

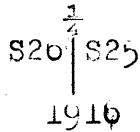
Subdivision of Part of T. 30 N., R. 10 W.

Chains.	<p>Surveys hereinafter described, executed by E. J. Lange, U.S. Surveyor, and D. R. Averill, James C. Hooper and S. Frank Walters, U.S. Transitmen, on dates shown on diagrams on pages 51, 53, 55 and 57 hereof, using Young and Sons' light mountain transits Nos. 8524 & 8489, and Buff Solar transit No. 9985, respectively.</p> <p>The initials "E. J. L.", "D. R. A.", "J. C. H." and "S. F. W." are inserted at the beginning and ending of those portions of the notes describing the surveys executed by E. J. Lange, U.S. Surveyor, and D. R. Averill, James C. Hooper, and S. Frank Walters, U.S. Transitmen, respectively.</p> <p>E. J. L.</p>
40.00	<p>From the cor. of secs. 1, 2, 35 and 36, on the S. bdy. of the Tp., which is an iron post, described in Book "A," N. 0° 1' W., bet. secs. 35 and 36.</p> <p>Over level land, through scattering timber and undergrowth.</p> <p>Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap</p> $\begin{array}{c} \frac{1}{4} \\ S35 S36 \\ 191b \end{array}$ <p>And raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.</p>
45.00	Wash. course N. 20° E.
80.00	<p>Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground, in a mound of stone, for cor. of secs. 25, 26, 35 and 36, marked on brass cap</p> $\begin{array}{c} T30N R10W \\ S26 S25 \\ \hline S35 S36 \\ 191b \end{array}$ <p>From which</p> <ul style="list-style-type: none"> A juniper, 24 ins. diam., brs. N. 89° E., 58 lks. dist., marked T30N R10W S25 BT. A juniper, 18 ins. diam., brs. S. 29° E., 100 lks. dist., marked T30N R10W S36 BT. A juniper, 15 ins. diam., brs. S. 72° W., 00 lks. dist., marked T30N R10W S35 BT. A juniper, 10 ins. diam., brs. N. 26° W., 88 lks. dist., marked T30N R10W S26 BT. <p>Land, level.</p> <p>Soil, light gravelly loam, 1st and 2nd rates.</p> <p>Timber, scattering pinion and juniper.</p> <p>Undergrowth, sagebrush.</p>
40.00 79.87 26.55 39.93	<p>S. 89° 57' E., on a random line bet. secs. 25 and 36.</p> <p>Set temp. $\frac{1}{4}$ sec. cor.</p> <p>Intersect E. bdy. of Tp., 7 lks. S. of the cor. of secs. 25, 30, 31 and 36, which is an iron post, described in Book "A."</p> <p>Thence</p> <p>West on a true line, bet. secs. 25 and 36.</p> <p>Over rolling and mountainous land, through scattering undergrowth and dense timber.</p> <p>Desc. 150 ft.</p> <p>Draw, course N. Asc. 195 ft.</p> <p>Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone for $\frac{1}{4}$ sec. cor., marked on brass cap</p> $\begin{array}{c} \frac{1}{4} S25 \\ S36 \\ 191b \end{array}$

Chains

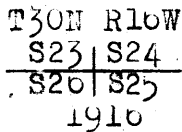
And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
 41.85 Spur, slopes N.20° W. Desc. 190 ft.
 07.05 Center of wide draw, course N. Thence over rolling land.
 79.87 The cor. of secs. 25, 26, 35 and 36.
 Land, rolling and mountainous.
 Soil, gravelly loam, rocky, 4th rate.
 Timber, pinion and juniper.
 Undergrowth, cactus and sagebrush.

N.0° 1' W., bet. secs. 25 and 26.
 Over level land through dense timber and scattering undergrowth.
 0.25 Wash, course N.75° E.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap



Dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, ½ ft. base, 1½ ft. high, W. of cor.

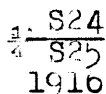
48.00 Leave level land, brs. N.70° E. and S.70° W. Asc. 150 ft.
 56.75 Draw, course S.80° E. Continue ascent.
 65.25 Spur slopes E. Desc. 65 ft.
 71.50 Wash, course E. Asc. 110 ft.
 76.00 Top of cliff, brs. E. and W. Continue ascent.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 8 ins. in the ground, in a mound of stone, for cor. of secs. 25, 24, 25 and 26, marked on brass cap



And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
 Land, level and mountainous.
 Soil, gravelly loam, 2nd and 4th rates.
 Timber, dense pinion and juniper.
 Undergrowth, sagebrush, and cactus.

40.00 East on a random line, bet. secs. 24 and 25.
 80.10 Set temp. ¼ sec. cor.
 Intersect E. bdy. of Tp., 2 lks. N. of the cor. of secs. 19, 24, 25 and 30, which is an iron post, described in Book "A."

Thence
 2.85 N.89° 59' W., on a true line, bet. secs. 24 and 25.
 25.10 Over rolling land, through scattering undergrowth.
 33.10 Wash, course SE. Asc. 160 ft.
 40.05 Desc 45 ft.
 Wash, course N. Thence over level land.
 Set an iron post, 3ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap



Dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise amount of earth, ½ ft. base, 1½ ft. high, N. of cor.

Subdivision of Part of T. 30 N., R. 16 W.

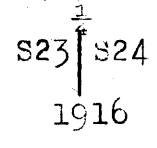
Chains.

45.00
80.10

Asc. 275 ft.
The cor. of secs. 23, 24, 25 and 26.
Land, level, rolling and mountainous.
Soil, rocky, sandy loam, 1st, 2nd and 3rd rates.
No timber.
Undergrowth, sagebrush and cactus.

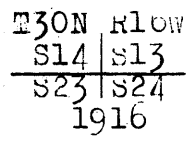
5.00
33.30
40.00

N.0° 1' W., bet. secs. 23 and 24.
Over mountainous land, through scattering undergrowth.
Asc. 25 ft.
Ridge, brs. N.30° E. and S.30° W. Desc. 255 ft.
Center of draw, course S.80° E. Asc. 45 ft.
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap



44.50
51.00
56.50
75.00
80.00

Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
Desc.
Wash, course SE. Asc. 205 ft.
Top of cliff, brs. E. and W.
Ridge, brs. E. and W. Desc. 75 ft.
Asc. 25 ft.
Set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for cor. of secs. 13, 14, 23 and 24. marked on brass cap



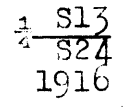
And raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.
Land, mountainous.
Soil, rocky, red loam, 3rd and 4th rates.
No timber.
Undergrowth, yucca and sagebrush.

40.00
80.08

S.89° 59' E., on a random line, bet. secs. 13 and 24.
Set temp. 1/4 sec. cor.
Intersect E. bdy. of Tp., 9 lks. S. of the cor. of secs. 13, 18, 19 and 24, which is an iron post, described in Book "A."

23.00
27.00
40.04

Thence
S.89° 57' W., on a true line bet. secs. 13 and 24.
Over rolling land through scattering undergrowth.
Asc. 20 ft.
Low spur, slopes NW. Desc. 100 ft.
Set an iron post, 3 ft. long, 1 in. diam., 20 ins in the ground, in a mound of stone, for 1/4 sec. cor., marked on brass cap



50.00

Dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
From this cor., earth dam, 5 chs. long, bearing E. and W. brs. S. 40 chs. dist.
Draw, course N.20° W. Asc. 300 ft.

Subdivision of Part of T. 30 N., R. 16 W.

Chains.

79.00
80.08

Ridge, brs. N.20° W. and S.20° E. Desc.
The cor. of secs. 13, 14, 23 and 24.
Land, rolling and mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, black brush, sagebrush, yucca, bayonet,
greasewood and cactus.

E.J.L.

J.C.H.

24.96
37.20
40.00

N.0° 1' W., bet. secs. 13 and 14.
Over rolling land, through scattering undergrowth.
Desc. 235 ft.
Wash, 30 lks. wide, course NE. Asc. 165 ft.
Ridge, brs. NW. and SE. Desc. 140 ft.
Set an iron post, 3 ft. long, 1 in. diam., in a mound of
stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
S14 | S13
1917

63.50
70.74
80.00

And raise a mound of stone, 2 $\frac{1}{2}$ ft. base, 2 $\frac{1}{2}$ ft. high, W.
of cor.
Asc. 30 ft.
Desc. gradually, 135 ft.
Set an iron post, 3 ft. long, 2 ins. diam., in a mound of
stone, for cor. of secs. 11, 12, 13 and 14, marked on
brass cap

T30N R16W
S11 | S12
S14 | S13
1917

And raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W.
of cor.
Land, rolling.
Soil, rocky, 4th rate.
No timber.
Undergrowth, yucca, bayonet and rabbit brush.

40.00
80.37

N.89° 57' E., on a random line, bet. secs. 12 and 13.
Set temp. $\frac{1}{4}$ sec. cor.
Intersect E. bdy. of Tp., 28 lks. N. of the cor. of secs.
7, 12, 13, and 18, which is an iron post, described in
Book "A."

20.43
25.35
40.18 $\frac{1}{2}$

Thence
N.89° 51' W., on a true line, bet. secs. 12 and 13.
Over rolling land, through scattering undergrowth.
Asc. 440 ft.
Ridge, brs. NW. and SE. Desc. 50 ft.
Continue gradual descent, across valley, slopes NE.
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

$\frac{1}{4}$ S12
S13
1917

41.85
42.60
56.30
80.37

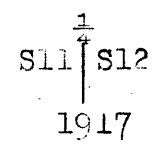
And raise a mound of stone, 2 $\frac{1}{2}$ ft. base, 2 $\frac{1}{2}$ ft. high, N.
of cor.
Wash, 10 lks. wide, course N.
Leave valley, slopes NE. Asc. 230 ft.
Spur, slopes N. Desc. 155 ft.
The cor. of secs. 11, 12, 13 and 14.
Land, rolling, and mountainous.
Soil, rocky, 4th rate.

Chains.

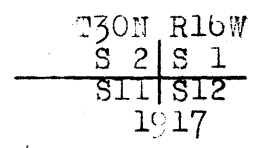
No timber.
Undergrowth, bayonet, yucca and rabbit brush.

N.0° 1' W., bet. secs. 11 and 12.
Over rolling land, through scattering undergrowth.

Desc.
3.00 Wash, 50 lks. wide, course NE. Asc. 75 ft.
10.20 Desc. 90 ft.
15.00 Asc. 95 ft.
26.80 Desc. 180 ft.
40.00 Wash, 50 lks. wide, course NE. Comes from SE.
Set an iron post, 3 ft. long, 1 in. diam., in a mound of
stone for $\frac{1}{4}$ sec. cor., marked on brass cap



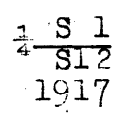
And raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W.
of cor.
Asc. 235 ft.
57.35 Spur, slopes NE. Desc. 350 ft.
75.80 Asc. 80 ft.
80.00 Set an iron post, 3 ft. long, 2 ins. diam., in a mound of
stone, for cor. of secs. 1, 2, 11 and 12, marked on brass
cap



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

40.00 S.89° 51' E., on a random line, bet. secs. 1 and 12.
80:07 Set temp. $\frac{1}{4}$ sec. cor.
Intersect E. bdy. of Tp., 7 lks. S. of the cor. of secs.
1, 6, 7 and 12, which is an iron post, described in
Book "A."

Thence
N.89° 54' W., on a true line, bet. secs. 1 and 12.
Over rolling land, through scattering undergrowth.
Desc. 55 ft.
6.00 Asc. 445 ft.
36.70 Ridge, brs. N. and S. Desc. 25 ft.
40.05 Set an iron post, 3 ft. long, 1 in. diam., 6 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, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N.
of cor.
Asc. 70 ft.
4.25 Desc. 85 ft.
56.30 Wash, 40 lks. wide, course NW. Asc.
60.05 Desc. 125 ft.
75.85 Wash, 60 lks. wide, course NW. Asc. 75 ft.
80.07 The cor. of secs 1, 2, 11 and 12.
Land, rolling.

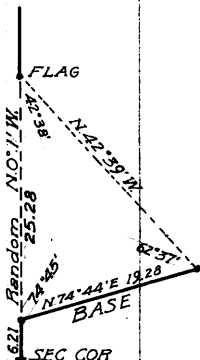
Chains.

Soil, rocky, 4th rate.
No timber.
Undergrowth, yucca, bayonet and rabbit brush.

From the cor. of secs. 2, 3, 34 and 35, on the S. bdy. of the Tp., which is an iron post, described in Book "A," N.0° 1' W., bet secs. 34 and 35.
Over mountainous land, through scattering timber and undergrowth.

Asc. 105 ft.

0.21 Spur, slopes W. Impossible to chain from here. I triangulate across canyon, about 550 ft. deep, course W., at approximately 15.00 chs., as follows: set a flag ahead on line. Measure a base N.74° 44' E., 1928 chs., from the E. end of which the flag on line brs. N.42° 39' W. The distance is given by



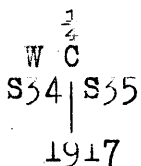
$$\frac{19.28}{\sin. 42^\circ 38'} = \frac{X}{\sin. 62^\circ 37'}$$

$$\begin{aligned} \log. 19.28 &= 1.285107 \\ \log. \sin. 62^\circ 37' &= 9.948308 \\ \text{colog. sin. } 42^\circ 38' &= 0.109216 \end{aligned}$$

$$1.402711 = \log. 25.28 \text{ chs.,}$$

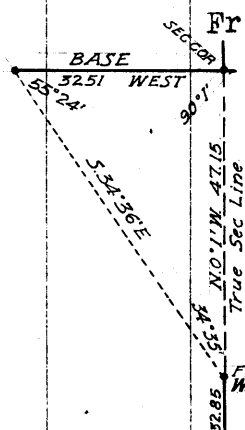
which added to 0.21 chs., gives

31.49 Spur, slopes W. Desc. 65 ft.
32.85 Edge of cliff, 100 ft. high, brs. E. and W.
Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap



From which
A pinion, 1 1/2 ins. diam., brs. S.6 1/2° E., 50 lks. dist., marked WC $\frac{1}{4}$ S35 BT.
A pinion, 4 ins. diam., brs. N.89° W., 80 lks. dist., marked WC $\frac{1}{4}$ S34 BT.

From this witness cor., I triangulate as follows: set a flag ahead on line, from which I measure a base West 32.51 chs., from the W. end of which the flag at the witness cor. brs. S.34° 30' E. The distance triangulated is given by



$$\frac{32.51}{\sin. 34^\circ 35'} = \frac{X}{\sin. 55^\circ 24'}$$

$$\begin{aligned} \log. 32.51 &= 1.512017 \\ \log. \sin. 55^\circ 24' &= 9.915472 \\ \text{colog. sin. } 34^\circ 35' &= 0.245924 \end{aligned}$$

$$1.673443 = \log. 47.15$$

chs., which added to 32.85 chs., gives 80.00 chs.

40.00 The true point for $\frac{1}{4}$ sec. cor. falls where it cannot be established.
The approximate distance to items of topography triangulated across is as follows:

45.00 Deep canyon, course NW.
70.85 Wash, 3 chs. 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, for cor. of secs. 26, 27, 34 and 35, marked on brass cap

Subdivision of Part of T. 30 N., R. 16 W.

Chains.

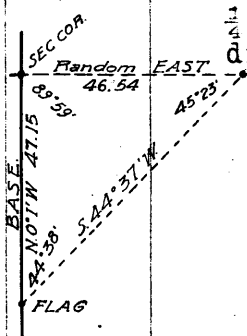
T30N R16W
S27 | S26
S34 | S35
1917

From which
A pinion, 8 ins. diam., brs. S. 33 1/4° W., 185 lks. dist.,
marked T30N R16W S34 BT.
A pinion, 10 ins. diam., brs. N. 2 1/8° W., 160 lks. dist.,
marked T30N R16W S27 BT.
No other trees within limits. Raise a mound of stone, 3
ft. base, 2 ft. high, W. of cor.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, juniper and pinion.
Undergrowth, yucca, scrub oak and cactus.

J.C.H.

E.J.L. & J.C.H.

East on a random line, bet. secs. 26 and 35.
It being impossible to chain E. on this line, I triangulate
as follows: set a flag on line, from which the witness
1/4 sec. cor. bet. secs. 34 and 35 brs. S. 44° 37' W. The
distance triangulated is given by



$$\sin. \frac{47.15}{45^\circ 23'} = \frac{X}{\sin. 44^\circ 38'}$$

or, by logarithms,
log. 47.15 = 1.673482
log. sin. 44° 38' = 9.846688
colog. sin. 45° 23' = 0.147629

1.667799 = log. 46.54 chs.

40.00
80.16

I chain 6.54 chs. west, and at
Set temp. 1/4 sec. cor.
Intersect N. and S. line at the cor. of secs. 25, 26, 35
and 36.

Thence
West on a true line, bet. secs. 26 and 35.
Over rolling land, through scattering timber and under-
growth.

28.53
40.08

Asc. 60 ft.
Spur, slopes N. Desc. 165 ft.
(J.C.H.) Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the
ground, in a mound of stone, for 1/4 sec. cor., marked on
brass cap.

1/4 S26
1/4 S35
1917

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

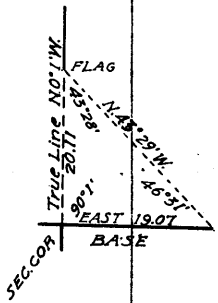
43.91
50.00
61.10
75.00
80.16

Wash, 50 lks. wide, course SW. Asc. 60 ft.
Spur, slopes S. Desc.
High cliffs, br. N. and S. Desc.
Wash, 1 ch. wide, course SW. Asc.
the cor. of secs. 26, 27, 34 and 35.
Land, mountainous.
Soil, rocky and gravelly, 4th rate.
Timber, juniper and pinion.
Undergrowth, yucca, scrub oak and cactus.

E.J.L. & J.C.H.

E.J.L. & J.C.H.

N. 0° 1' W., bet. secs. 26 and 27.
Over mountainous land, through scattering undergrowth.
It being impossible to chain north from this cor., I trian-
gulate as follows:



Chains

Set a flag ahead on line, and measure a base East 19.07 chs., from the E. end of which the flag on line brs. N. 43° 29' W. The distance triangulated is given by

$$\frac{19.07}{\sin. 43^\circ 28'} = \frac{X}{\sin. 46^\circ 31'}$$

or, by logarithms,

$$\begin{aligned} \log. 19.07 &= 1.280351 \\ \log. \sin. 46^\circ 31' &= 9.860682 \\ \log. \sin. 43^\circ 28' &= 0.162454 \end{aligned}$$

$$1.303487 = \log. 20.11 \text{ chs.}$$

- 20.11 Top of cliffs, 100 ft. high, br. E. and W. Desc. 86 ft.
- 33.00 Wash, 60 lks. wide, course SE. Asc. 635 ft.
- 40.00 (E.J.L.) Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$$\begin{array}{r} \frac{1}{4} \\ \hline S27 | S26 \\ \hline 1916 \end{array}$$

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

- 51.20 Cliff, brs. E. and W. Continue ascent.
- 66.70 Spur, slopes E. Desc. 135 ft.
- 80.00 (E.J.L.) Set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for cor. of secs. 22, 23, 26 and 27, marked on brass cap

$$\begin{array}{r} T30N R16W \\ \hline S22 | S23 \\ \hline S27 | S26 \\ \hline 1916 \end{array}$$

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

Land, mountainous.
Soil, rocky, 4th rate.
Timber, scrub juniper and pinion.
Undergrowth, yucca and sagebrush.

E.J.L. & J.C.H.

E.J.L.

- 40.00 East on a random line, bet. secs. 23 and 26.
- 80.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.00 Intersect N. and S. line, at the cor. of secs. 23, 24, 25 and 26.

Thence

West on a true line, bet. secs. 23 and 26.
Over mountainous land, through scattering undergrowth.
Asc.

- 17.00 Spur, slopes N. Desc. 140 ft.
- 24.00 Draw, course N. Asc. 80 ft.
- 30.50 Spur, slopes N. 30° E. Desc. 70 ft.
- 37.75 Wash, course N. 30° E. Asc. 60 ft.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$$\begin{array}{r} \frac{1}{4} S23 \\ \hline S26 \\ \hline 1916 \end{array}$$

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

- 45.00 Spur, slopes NE. Desc. 115 ft.
- 58.50 Enter draw, course N. 70° E.
- 70.00 Leave draw, course N. 70° E. Asc. 25 ft.
- 80.00 The cor. of secs. 22, 23, 26 and 27.
Land, mountainous.
Soil, rocky, 4th rate.
No timber.

Subdivision of Part of T. 30 N., R. 16 W.

Chains.

Undergrowth, sagebrush.

E.J.L.

E.J.L. & S.F.W.

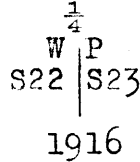
N.0° 1' W., bet. secs. 22 and 23.

Over mountainous land, through scattering timber and undergrowth.

Asc. 60 ft.

9.00 Desc. 12 ft.

9.73 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for witness point to 1/4 sec. sec. cor., marked on brass cap



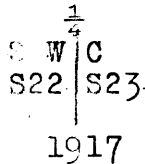
From which

A pinion, 12 ins. diam., brs. S.88° E., 24 lks. dist., marked WP 1/4 S23 BT.

A pinion, 10 ins. diam., brs. S.44 3/4° W., 69 lks. dist., marked WP 1/4 S22 BT.

9.90 Top of cliff, 600 ft. high, brs. NE. and SW. Desc. 700 ft.

38.50 (S.F.W.) Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for witness cor. to 1/4 sec. cor., marked on brass cap



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

40.00 The true point for 1/4 sec. cor. falls where it cannot be permanently established.

40.30 Gulch, course W. Asc. 125 ft.

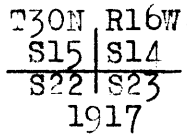
47.33 Spur, slopes W. Desc. 330 ft.

53.00 Gulch, course N.60° W. Asc. 35 ft.

62.10 Point, slopes W. Desc. 295 ft.

66.80 Gulch, course W. Asc. 170 ft.

80.00 (S.F.W.) Set an iron post, 3 ft. long, 2 ins. diam., 4 ins. in the ground, in a mound of stone, for cor. of secs. 14, 15, 22 and 23, marked on brass cap



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

Land, mountainous.

Soil, rocky, 4th rate.

Timber, scattering pinion and juniper.

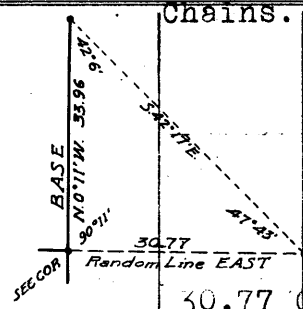
Undergrowth, sagebrush and cactus.

E.J.L. & S.F.W.

J.C.H.

East on a random line, bet. secs. 14 and 23.

It being impossible to chain E. from this cor., I triangulate as follows: set a flag ahead on line, and from the cor. of secs. 14, 15, 22 and 23, measure a base N.0° 11' W., 33.96 chs., from the N. end of which the flag brs. S. 42° 17' E. The distance triangulated is given by



$$\frac{33.96}{\sin. 47^\circ 43'} = \frac{X}{\sin. 42^\circ 6'} \text{ or, by logarithms,}$$

$$\begin{aligned} \log. 33.96 &= 1.530968 \\ \log. \sin. 42^\circ 6' &= 9.826351 \\ \text{colog. sin. } 47^\circ 43' &= 0.130870 \\ \hline &= 9.488189 = 30.77 \text{ chs.} \end{aligned}$$

30.77 Continue East on random line, bet. secs. 14 and 23.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.84 Intersect N. and S. line, 45 lks. N. of the cor. of secs. 13, 14, 23 and 24, W
 Thence
 N. $89^\circ 41'$ W., on a true line, bet. secs. 14 and 23.
 Over rolling land, through scattering timber and undergrowth.
 Desc. 65 ft.
 4.00 Wash, 30 lks. wide, course N. Asc. 55 ft.
 14.30 Spur, slopes N. Desc. 155 ft.
 28.90 Wash, 30 lks. wide, course NE. Asc. 245 ft.
 39.92 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$ S14
 $\frac{1}{4}$ S23
 1917

And raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
 49.07 Cliff, about 250 ft. high, brs. N. and S. Desc.
 79.84 The cor. of secs. 14, 15, 22 and 23.
 Land, mountainous and rolling.
 Soil, rocky, 4th rate.
 Timber, pinion and juniper.
 Undergrowth, yucca, scrub oak and cactus.

N. $0^\circ 1'$ W., bet. secs. 14 and 15.
 Over mountainous land, through scattering undergrowth.
 Asc. 25 ft.
 4.00 Desc. 210 ft.
 14.60 Wash, 50 lks. wide, course W. Asc. 75 ft.
 17.29 Spur, slopes W. Desc. 250 ft.
 27.96 Wash, 40 lks. wide, course W. Asc.
 33.79 Spur, slopes W. Desc.
 35.79 Wash, 50 lks. wide, course W. Asc. 170 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
 S15 | S14
 1917

And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 52.20 Spur, slopes W. Desc. 50 ft.
 56.93 Wash, 70 lks. wide, course W. Asc. 120 ft.
 63.85 Spur, slopes W. Desc. 185 ft.
 79.04 Wash, 60 lks. wide, course W. Asc.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for cor. of secs. 10, 11, 14 and 15, marked on brass cap

T30N R16W.
 S10 | S11
 S15 | S14
 1917

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

Subdivision of Part of T. 30 N., R. 16 W. 29

Chains.

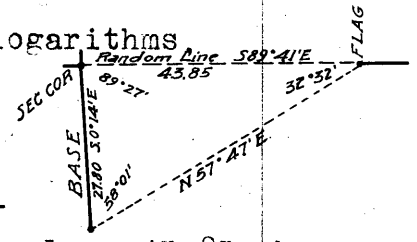
Land, mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, yucca, bayonet and cactus.
Some bunch grass.

S. 89° 41' E., on a random line, bet. secs. 11 and 14.
It being impossible to chain from this cor. east, I triangulate as follows: set a flag on line, and from the cor. of secs. 10, 11, 14 and 15, measure a base S. 0° 14' E., 27.80 chs., from the S. end of which the flag brs. N. 57° 47' E. The distance triangulated is given by

$$\frac{27.80}{\sin. 32^\circ 32'} = \frac{X}{\sin. 58^\circ 1'}$$

or, by logarithms

log. 27.80	=	1.444045
log. sin. 58° 1'	=	99.928499
colog. sin. 32° 32'	=	0.269387



$$1.641931 = \log 43.85 \text{ chs.}$$

43.85 At this point, I set temporary witness cor. to ¼ sec. cor. Thence I continue

S. 89° 41' E., on a random line, bet. secs. 11 and 14.

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

Thence
N. 89° 42' W., on a true line, bet. secs. 11 and 14.
Over rolling and mountainous land, through scattering timber and undergrowth.

14.00 Desc. Wash, 50 lks. wide, course NE. Asc. 205 ft.

28.70 Desc. 45 ft.

35.70 Cliff, 250 ft. high, brs. N. and S.

35.90 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for witness cor. to ¼ sec. cor., marked on brass cap

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

1917

From which
A pinion, 6 ins. diam., brs. S. 63¼° E., 116 lks. dist., marked WC ¼ S14 BT.

No other trees within limits. Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Desc. 1320 ft.

39.87½ True point for ¼ sec. cor. is inaccessible.

79.75 The cor. of secs. 10, 11, 14 and 15.

Land, rolling and mountainous.
Soil, rocky, 4th rate.
Timber, scattering pinion and juniper.
Undergrowth, scrub oak, cactus and sagebrush.

N. 0° 1' W., bet. secs. 10 and 11.
Over mountainous land, through scattering undergrowth.
Asc. 210 ft.

9.60 Spur, slopes W. Desc. 70 ft.

13.37 Wash, 30 lks. wide, course W. Asc. 65 ft.

17.00 Spur, slopes W. Desc. 120 ft.

20.80 Wash, 40 lks. wide, course W. Asc.

24.04 Spur, slopes W. Desc.

26.04 Wash, 30 lks. wide, course W. Asc.

33.95 Spur, slopes W. Desc. 110 ft.

40.00 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for ¼ sec. cor., marked on brass cap

Chains.

$\frac{1}{4}$
 S10 | S11
 1917

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

Asc. 35 ft.

44.70 Desc. 35 ft.

49.63 Wash, 30 lks. wide, course W. Asc. 310 ft.

60.79 Spur, slopes W. Desc. 130 ft.

66.59 Wash, 30 lks. wide, course W. Asc. 115 ft.

72.72 Spur, slopes W. Desc. 230 ft.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for cor. of secs. 2, 3, 10 and 11, marked on brass cap

T30N R16W
 S 3 | S 2
 S10 | S11
 1917

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

Land, mountainous.

Soil, rocky, 4th rate.

No timber.

Undergrowth, yucca, bayonet and cactus.

Some bunch grass.

S.89° 42' E., on a random line, bet. secs. 2 and 11.

I set a flag point S.89° 30' E., on top of cliffs, from which point a flag on line between secs. 10 and 11, 63.04 chs.

S.0° 1' E. of the cor. of secs. 2, 3, 10 and 11, brs. S. 38° 58' W. The distance triangulated is given as follows:

$$\frac{63.04}{\sin. 51^\circ 32'} = \frac{X}{\sin. 38^\circ 59'} \text{ or, by logarithms,}$$

$$\begin{aligned} \log. 63.04 &= 1.799616 \\ \log. \sin. 38^\circ 59' &= 9.798716 \\ \text{colog. } \sin. 51^\circ 32' &= 0.106255 \end{aligned}$$

$$1.704587 = \log. 50.65 \text{ chs.}$$

50.65 From this point, I measure N. 17 lks., to the random line bet secs. 2 and 11, where I set temp. witness cor. to $\frac{1}{4}$ sec. cor.

Thence I continue

79.88 S.89° 42' E., on a random line, bet. secs. 2 and 11.

Intersect N. and S. line 2 lks. N. of the cor. of secs. 1, 2, 11 and 12.

Thence

N.89° 41' W., on a true line, bet. secs. 2 and 11.

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

Desc. 30 ft.

8.00 Wash, 50 lks. wide, course NW. Asc. 315 ft.

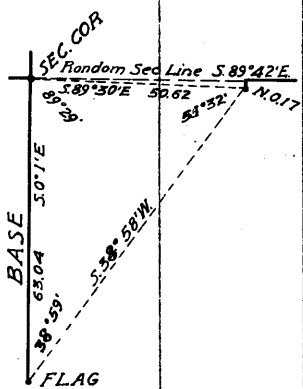
29.40 Perpendicular cliff, brs. N. and S. Desc. 1420 ft.

39.94 The true point for $\frac{1}{4}$ sec. cor. falls where it cannot be established.

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

$\frac{1}{4}$ S 2
 S11 WC
 1917

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



chains.

70.90
79.88

Wash, 80 lks. wide, course NW. Asc.
The cor. of secs. 2, 3, 10 and 11.
Land, rolling and mountainous.
Soil, rocky, 4th rate.
Timber, scattering pinion and juniper.
Undergrowth, yucca, scrub oak, sagebrush and cactus.

4.98
21.90
30.00
40.00

From the cor. of secs. 3, 4, 33 and 34, on the S. bdy. of the Tp., which is an iron post, described in Book "A," N.0° 2' W., bet. secs. 33 and 34.
Over rolling land, through scattering undergrowth.
Desc. 30 ft.

Wash, course NW. Asc. 40 ft.
Ridge, brs. NW. Desc. 25 ft.
Asc.
Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for 1/4 sec. cor., marked on brass cap

S33 | S34
1917

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

From this point, I set a flag ahead, on top of cliffs, from which a flag set 79.84 chs. N.89° 57' W. of the cor. of secs. 3, 4, 33 and 34, brs. S.46° 29 1/2' W. The distance triangulated is given as follows:

79.84 / sin. 46° 31 1/2' = X / sin. 43° 33 1/2', or, by logarithms,

log. 79.84 = 1.902221
log. sin. 43° 33 1/2' = 9.838278
colog. sin. 46° 31 1/2' = 0.139258

1.879757 = log. 75.82 chs.

The approximate distance to items of topography triangulated over is as follows:

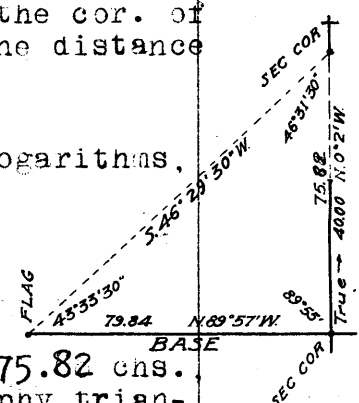
41.00
49.00
60.00
75.82
80.00

Spur, slopes W. Desc.
Wash, course W. Asc.
Series of cliffs, brs. E. and W.
Top of cliff, brs. E. and W. Desc. 55 ft.
Set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for cor. of secs. 27, 28, 33 and 34, marked on brass cap

T30N R10W
S28 | S27
S33 | S34
1917

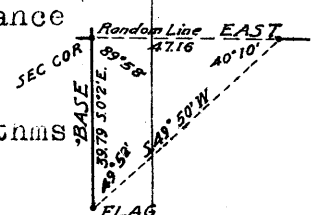
And raise a mound of stone, 2 1/2 ft. base, 2 ft. high, W. of cor.

Land, rolling and mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, cactus and sagebrush.



East on a random line, bet. secs. 27 and 34.
Set a flag ahead on line, from which a flag between secs. 33 and 34, 39.79 chs. S.0° 2' E. of the cor. of secs. 27, 28, 33 and 34, brs. S.49° 50' W. The distance triangulated is given by

39.79 / sin. 40° 10' = X / sin. 49° 52', or, by logarithms



Chains.	$\log. 59.79 = 1.599774$ $\log. \sin. 49^\circ 52' = 9.883404$ $\text{colog. sin. } 40^\circ 10' = \underline{0.190431}$ $1.073009 = \log. 47.16 \text{ chs.}$
47.16	From this point, I chain West 7.16 chs., and at
40.00	Set temp. $\frac{1}{2}$ sec. cor. Thence I continue
	East on a random line, bet. secs. 27 and 34.
79.07	Intersect N. and S. line, 21 lks. N. of the cor. of secs. 20, 27, 34 and 35.
	Thence
	N. $89^\circ 51'$ W., on a true line, bet. secs. 27 and 34.
	Over mountainous land, through scattering timber and undergrowth.
	Asc. 100 ft.
4.55	Spur, slopes S. Desc. 70 ft.
8.45	Canyon, course S. Asc. 105 ft.
14.50	Spur, slopes S. Desc. 175 ft.
21.05	Canyon, course S. Asc. 175 ft.
29.90	Desc. 175 ft.
59.83 $\frac{1}{2}$	Set an iron post, 3 ft. long 1 in. diam., in a mound of stone, for $\frac{1}{2}$ sec. cor., marked on brass cap
	$\frac{1}{4}$ S27 $\frac{1}{4}$ S34 1917
	And raise a mound of stone, 2 $\frac{1}{2}$ ft. base, 2 $\frac{3}{8}$ ft. high, N. of cor.
50.00	(Approximate distance) Draw, course SW. Asc.
79.07	The cor. of secs. 27, 28, 33 and 34. Land, mountainous. Soil, rocky, 4th rate. Timber, pinion and juniper. Undergrowth, cactus.
	N. $0^\circ 2'$ W., bet. secs. 27 and 28. Over mountainous land, through scattering undergrowth. Desc. 270 ft.
6.25	Wash, course NW. Asc. 50 ft.
8.50	Thence along rim rock, 50 ft. high, general bearing N. and S. Desc. 75 ft.
15.50	Asc. 15 ft.
10.75	Desc. 80 ft.
21.24	Wash, course W. Asc. 65 ft.
27.25	Desc. 55 ft.
28.75	Wash, course W. Asc. 110 ft.
33.49	Cliff, 75 ft. high, brs. E. and W. Desc. 30 ft.
39.57	Wash, course W. Asc. 50 ft.
40.00	Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap
	$\frac{1}{4}$ S28 S27 1917
	And raise a mound of stone, 2 ft. base, 2 $\frac{1}{2}$ ft. high, W. of cor.
42.50	Desc. 55 ft.
49.50	Rim rock, brs. NE. and SW.
52.20	Wash, course W. Continue descent, 390 ft.
62.53	Rim rock, 50 ft. high, brs. NE. and SW.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 8 ins. in the

Subdivision of Part of T. 30 N., R. 16 W.

Chains.

ground, in a mound of stone, for cor. of secs. 21, 22, 27 and 28, marked on brass cap

T30N R16W
S21 | S22

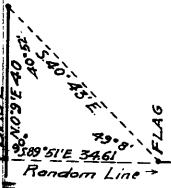
S28 | S27
1917

And raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
Land, rolling and mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, yucca, cactus and bayonet.

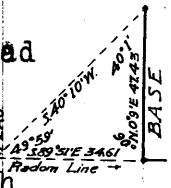
J.C.H.

E.J.L. & S.F.W.

S.89° 51' E., on a random line, bet. secs. 22 and 27.
It being impossible to chain east from this cor., I set a flag on line and measure a base N.0° 9' E., 40.00 chs from the cor. of secs. 21, 22, 27 and 28, from the N. end of which the flag on line brs. S.40° 43' E.
The distance triangulated is given by $\tan.40°.52' \times 40.00 = .86521 \times 40.00 = 34.61$ chs.



34.61 Set temp. witness cor. to $\frac{1}{4}$ sec. cor.
I triangulate from this point as follows: set a flag ahead on line, from which I measure a base N.0° 9' E., 47.43 chs., from the N. end of which flag at the 34.61 ch. point brs. S.40° 10' W. The distance is given by $\tan.40° 1' \times 47.43 = .83960 \times 47.43 = 39.82$ chs., which added to 34.61, gives 74.43.



74.43 Continue S.89° 51' E., on a random line, bet. secs. 22 and 27.

79.70 Intersect N. and S. line, 14 lks. S. of the cor. of secs. 22, 23, 26 and 27.

Thence N.89° 57' W., on a true line, bet. secs. 22 and 27.
Over mountainous land, through scattering timber and undergrowth.

39.85 Along cliffs, br. E. and W., descending about 700 ft.
The true point for $\frac{1}{4}$ sec. cor. falls on cliff, where it cannot be established.

45.10 (S.F.W.) Set an iron post, 3 ft. long, 1 in. diam., 5 ins. in the ground, in a mound of stone, for witness cor, to $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$ S22 W C

S27
1917

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

79.70 Desc. about 800 ft.
The cor. of secs. 21, 22, 27 and 28.
Land, mountainous.

Soil, rocky, 4th rate.
Timber, scattering juniper and pinion.
Undergrowth, cactus and scrub oak.

E.J.L. & S.F.W.

S.F.W.

N.0° 2' W., bet. secs. 21 and 22.
Over rolling land, through scattering undergrowth.
Desc. 200 ft.

16.60 Gulch, course N.40° W. Thence along W. slope.

35.00 Desc. 85 ft.

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

Chains.

$\frac{1}{4}$
 S21 | S22
 1917

51.20 And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 75.00 Gulch, course W. Thence along W. slope.
 80.00 Desc. 35 ft.
 Set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for cor. of secs. 15, 16, 21 and 22, marked on brass cap

T30N R16W
 S16 | S15
 S21 | S22
 1917

And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Land, rolling.
 Soil, rocky, 3rd and 4th rates.
 No timber
 Undergrowth, yucca and cactus.

40.00 S.89° 57' E., on a random line, bet. secs. 15 and 22.
 79.66 Set temp. $\frac{1}{4}$ sec. cor.
 Intersect N. and S. line, 2 lks. N. of the cor. of secs. 14, 15, 22 and 23.

Thence
 N.89° 56' W., on a true line, bet. secs. 15 and 22.
 Over mountainous land, through scattering undergrowth.
 Desc. 915 ft.
 39.83 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$ S15
 S22
 1917

47.95 And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 49.90 Wash, course N.80° W. Asc.
 64.65 Desc. 160 ft.
 69.65 Wash, course N.70° W. Asc.
 79.66 Desc. 80 ft.
 The cor. of secs. 15, 16, 21 and 22.
 Land, mountainous.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, cat claw and scrub oak.

15.00 N.0° 2' W., bet. secs. 15 and 16.
 20.00 Over rolling land, through scattering undergrowth.
 26.00 Desc. 60 ft.
 31.40 Enter wash, course N.40° W.
 40.00 Leave wash, course N.40° W. Asc. 60 ft.
 Spur, slopes N.60° W. Thence along W. slope.
 Set an iron post, 3 ft. long, 1 in. diam. in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
 S16 | S15
 1917

Chains.

And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
 Desc. 55 ft.
 Asc.
 45.00 Spur, slopes W. Desc. 15 ft.
 46.00 Gulch, course W. Asc. 20 ft.
 50.00 Spur, slopes W. Desc. 95 ft.
 55.00 Gulch, course W. Asc. 55 ft.
 70.00
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground, in a mound of stone, for cor. of secs. 9, 10, 15 and 16, marked on brass cap.

T30N R16W
 S 9 | S10
 S16 | S15
 1917

And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
 Land, rolling.
 Soil, rocky, 3rd and 4th rates.
 No timber.
 Undergrowth, yucca and cactus.

40.00 S.89° 56' E., on a random line, bet. secs. 10 and 15.
 Set temp. ¼ sec. cor.
 79.60 Intersect N. and S. line, 5 lks. S. of the cor. of secs. 10, 11, 14 and 15.
 Thence
 N.89° 58' W., on a true line, bet. secs. 10 and 15.
 Over mountainous land, through scattering undergrowth.
 Asc. 30 ft.
 7.50 Spur, slopes S.60° W. Desc. 575 ft.
 26.90 Spur, slopes NW. Continue descent.
 38.60 Draw, course N.30° W. Asc. 30 ft.
 39.80 Set an iron post, 3 ft. long, 1 in. diam., 15 ins. in the ground, in a mound of stone, for ¼ sec. cor., marked on brass cap

¼ S10
 ¼ S15
 1917

And raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
 44.80 Spur, slopes NW. Desc. 205 ft.
 66.20 Gulch, course N.60° W. Asc. 30 ft.
 72.60 Desc. 20 ft.
 79.60 The cor. of secs. 9, 10, 15 and 16.
 Land, mountainous.
 Soil, rocky, 3rd and 4th rates.
 No timber.
 Undergrowth, black brush, yucca, cat claw and bayonet.

S.F.W.

J.C.H.
 N.0° 2' W., bet. secs. 9 and 10.
 Over rolling land, through scattering undergrowth.
 Desc. 65 ft.
 13.35 Wash, 50 lks. wide, course NW. Asc. 70 ft.
 18.00 Desc. 125 ft.
 30.20 Wash, 3 chs. wide, course W. Asc. 95 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground in a mound of stone, for ¼ sec. cor., marked on brass cap

Subdivision of Part of T. 30 N., R. 16 W.

Chains.

S 9 1/4 S10
1917

45.00 Descend 170 ft.
66.70 Wash, 40 lks wide, course NW. Ascend 45 ft.
77.35 Descend 1 ks. wide, course NW. Ascend 45 ft.
80.00 True point for cor. of secs. 3, 4, 9 & 10 falls in wash, 20 lks.
wide, 3 ft. deep, course NW; therefore continue N. 0° 2' W. & at
80.30 Set an iron post, 3 ft. long, 2 ins. diam., in a mound of
stone, for witness cor. to cor. of secs. 3, 4, 9 and
10, marked on brass cap

T30N R16W
S 4 | S 3
S 9 | S10
W C
1917

And raise a mound of stone, 2 1/2 ft. base, 2 1/2 ft. high, W.
of cor.
Land, rolling.
Soil, rocky, 4th rate.
No timber.
Undergrowth, cat claw and cactus.

From the witness cor. to cor. of secs. 3, 4, 9 and 10, a
flag on line bet. secs. 10 and 11, 74.19 chs. S. 0° 1'
E. of the cor. of secs. 2, 3, 10 and 11, brs. S. 46° 53' E.
The cor. of secs. 2, 3, 10 and 11 brs. S. 89° 47' E.
The distance triangulated is therefore given by

$$\frac{74.19}{\sin. 42^\circ 54'} = \frac{X}{\sin. 46^\circ 52'}$$
 or, by logarithms,
log. 74.19 = 1.870345
log. sin. 46° 52' = 9.863183
colog. sin. 42° 54' = 0.167031

1.900559 = log. 79.54

The course and distance of the line bet. secs. 3 and 10 is
therefore East, 79.54 chs.

From the true point for cor. of secs. 3, 4, 9 and 10,
East on a random line, bet. secs. 3 and 10.

40.00 Set temp. 1/4 sec. cor.
79.54 Intersect N. and S. line, at the cor. of secs. 2, 3, 10 and
11.

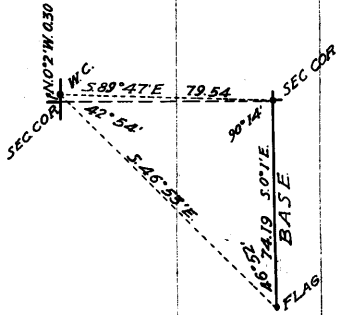
Thence
West on a true line, bet. secs. 3 and 10.
Over mountainous land, through scattering undergrowth.
Desc. 835 ft.

39.77 Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the
ground, in a mound of stone, for 1/4 sec. cor., marked on
brass cap

1/4 S 3
S10
1917

50.00 Desc. in wash, course W. Comes from NE.
79.54 The true point for cor. of secs. 3, 4, 9 and 10.
Land, rolling and mountainous.
Soil, rocky, 4th rate.
No timber.
undergrowth, cat claw and cactus.

J.C.H.

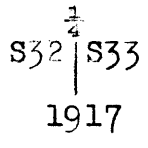


Subdivision of Part of T. 30 N., R. 16 W.

Chains.

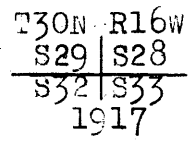
S.F.W.
From the cor. of secs. 4, 5, 32 and 33, on the S. bdy. of the Tp., which is an iron post, described in Book "A," N.0° 3' W., bet. secs. 32 and 33.
Over rolling land, through scattering undergrowth.

- 0.25 Desc.
- 0.25 Wash, course S.40° W. Asc. 60 ft.
- 3.75 Thence along W. slope.
- 20.04 Desc. 50 ft.
- 26.00 Draw. course W. Asc. 45 ft.
- 30.00 Spur, slopes W. Desc. 45 ft.
- 35.00 Wash, 80 lks. wide, 3 ft. deep, course N.40° W. Asc.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap



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

- 45.25 Desc. 30 ft.
- 45.25 Wash, 90 lks. wide, course W. Asc. 30 ft.
- 51.35 Desc.
- 53.45 Draw, course N.70° W. Asc. 20 ft.
- 55.35 Desc. 35 ft.
- 57.55 Gulch, course W. Asc. 55 ft.
- 65.25 Spur, slopes W. Desc. 75 ft.
- 76.35 Gulch, course N.70° W. Asc. 70 ft.
- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground, in a mound of stone, for cor. of secs. 28, 29, 32 and 33, marked on brass cap



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

Land, mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, yucca and cactus.

S.F.W.

J.C.H.

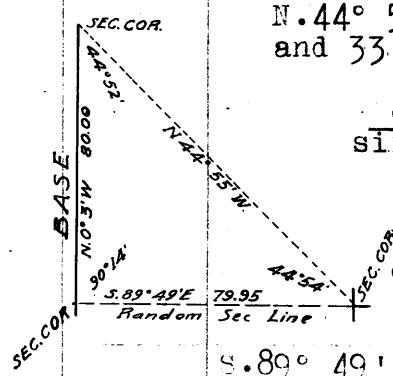
From the cor. of secs. 28, 29, 32 and 33, the cor. of secs. 27, 28, 33 and 34, is plainly visible, and brs. S.89° 49' E. From the cor. of secs. 27, 28, 33 and 34, the cor. of secs. 20, 21, 28 and 29, hereinafter described, brs. N.44° 55' W. The length of the sec. line bet. secs. 28 and 33 is therefore given by

$$\frac{80.00}{\sin. 44^\circ 54'} = \frac{X}{\sin. 44^\circ 52'} \text{ or, by logarithms,}$$

log. 80.00	=	1.903090
log. sin. 44° 52'	=	9.848472
colog. sin. 44° 54'	=	0.151274

1.902836 = log. 79.95 chs.

- 40.00 S.89° 49' E., on a random line, bet. secs. 28 and 33.
- 79.95 Set temp. sec. cor.
- 79.95 Intersect N. and S. line, at the cor. of secs. 27, 28, 33 and 34.
- Thence
- N.89° 49' W., on a true line, bet. secs. 28 and 33.
- Over mountainous land, through scattering undergrowth.
- 15.00 Desc. 845 ft., over cliffs, bearing N. and S.



Subdivision of Part of T. 30 N., R. 16 W.

Chains.
 39.97½ Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground, in a mound of stone, for ¼ sec. cor., marked on brass cap

$$\begin{array}{r} \frac{1}{4} \text{ S28} \\ \hline \frac{1}{4} \text{ S33} \\ 1917 \end{array}$$

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

45.05 Wash, course NW. Asc.
 56.45 Desc. 55 ft.
 61.65 Wash, course NW. Asc. 30 ft.
 67.35 Desc. 75 ft.
 79.95 The cor. of secs. 28, 29, 32 and 33.
 Land, mountainous.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, cactus, yucca and bayonet.

J.C.H.

S.F.W.

N.0° 3' W., bet. secs. 28 and 29.
 Over mountainous land, through scattering undergrowth, Asc. 15 ft.

2.30 Spur, slopes N.40° W. Desc. 50 ft.
 6.50 Draw, course N. 50° W. Asc. 30 ft.
 10.30 Spur, slopes N.60° W. Desc. 100 ft.
 16.20 Gulch, course N.70° W. Asc. 70 ft.
 20.10 Desc. 70 ft.
 29.00 Draw, course N.60° W. Asc.
 38.00 Desc. 25 ft.
 39.50 Draw, course N.70° W. Thence along W. slope.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for ¼ sec. cor., marked on brass cap

$$\begin{array}{r} \frac{1}{4} \\ \text{S29} \mid \text{S28} \\ \hline 1917 \end{array}$$

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

50.00 Desc. 100 ft.
 72.00 Foot of descent; thence over rolling land.
 75.00 Enter wash, course NW.
 78.70 Leave wash, course NW.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for cor. of secs. 20, 21, 28 and 29, marked on brass cap

$$\begin{array}{r} \text{T30N R16W} \\ \text{S20} \mid \text{S21} \\ \hline \text{S29} \mid \text{S28} \\ 1917 \end{array}$$

And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
 Land, rolling and mountainous.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, yucca and cactus.

S.F.W.

J.C.H.

S.89° 49' E., on a random line, bet. secs. 21 and 28.
 40.00 Set temp. ¼ sec. cor.
 79.94 Intersect N. and S. line, 26 lks. S. of the cor. of secs. 21, 22, 27 and 28,
 Thence
 West on a true line, bet. secs. 21 and 28.

Chains.

Over rolling and mountainous land, through scattering undergrowth.
 Desc. 390 ft.
 25.18 spur, slopes N. and S. Continue descent.
 39.97 Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$ S21
 $\frac{1}{4}$ S28
 1917

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

48.00 Wash, course NW. Asc.
 50.00 Desc. 70 ft.
 56.50 Wash, course N. Asc.
 58.70 Thence over gently rolling land.
 79.94 The cor. of secs. 20, 21, 28 and 29.
 Land, rolling and mountainous.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, yucca, greasewood and cactus.

N.0° 3' W., bet. secs. 20 and 21.
 Over gently rolling land, through scattering undergrowth.
 39.00 Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground, in a mound of stone, for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
 W C
 S20 | S21
 1917

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

40.00 The true point for $\frac{1}{4}$ sec. cor. falls in wash, 30 lks. wide 1 ft. deep, course NW.
 Asc. 25 ft.
 41.60 Thence over gently rolling land.
 50.00 Wash, course NW.
 59.50 Desc. 110 ft.
 68.85 Wash, 4 chs. wide, course NW.
 71.70 Asc. 65 ft.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 8 ins. in the ground, in a mound of stone, for cor. of secs. 16, 17, 20 and 21, marked on brass cap

T30N R16W
 S17 | S16
 S20 | S21
 1917

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

J.C.H.

S.F.W.
 East on a random line, bet. secs. 16 and 21.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.15 Intersect N. and S. line, 5 lks. S. of the cor. of secs. 15, 16, 21 and 22.
 Thence
 S.89° 58' W., on a true line, bet. secs. 16 and 21.

Chains.

5.35 Asc. 55 ft.
 9.65 Desc. 255 ft.
 40.07¹/₂ Head of draw, course N.60° W. Continue descent.
 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for ¹/₄ sec. cor., marked on brass cap

¹/₄ S16
¹/₄ S21
 1917

And raise a mound of stone, 2 ft. base, 1¹/₂ ft. high, N. of cor.

43.15 Wash, 40 lks. wide, 3 ft. deep, course N. Asc. 25 ft.
 47.95 Spur, slopes N.50° W. Desc. 35 ft.
 52.15 Head of draw, course N.60° W. Asc.
 59:45 Desc. 100 ft.
 68.45 Gulch, course N.70° W. Asc. 50 ft.
 74.25 Spur, slopes N.60° W. Desc. 90 ft.
 79.15 Gulch, course N.70° W. Asc. 10 ft.
 80.15 The cor. of secs. 16, 17, 20 and 21.

Land, rolling.
 Soil, gravelly, 3rd rate.
 No timber.
 Undergrowth, greasewood and yucca.

S.F.W.

J.C.H.

N.0° 3' W., bet. secs. 16 and 17.
 Over rolling land through scattering undergrowth.
 Desc.

2.00 Wash, 30 lks. wide, course NW. Asc.
 6.00 Desc. 55 ft.
 11.00 Asc. 20 ft.
 12.20 Desc. 40 ft.
 15.62 Wash, 2 chs. wide, 3 ins. deep, course NW. Asc. 30 ft.
 20.00 Desc. 25 ft.
 27.75 Wash, 20 lks. wide, course NW. Asc. 50 ft.
 32.00 Desc. 35 ft.
 37.00 Asc. 10 ft.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground, in a mound of stone, for ¹/₄ sec. cor., marked on brass cap

S17 | S16
 1917

And raise a mound of stone, 2¹/₂ ft. base, 2¹/₂ ft. high, W. of cor.

44.40 Desc. 55 ft.
 Wash, 20 lks. wide, course NW. Asc. 80 ft.
 51.10 Desc. 125 ft.
 61.50 Wash, 40 lks. wide, course NW. Asc. 75 ft.
 67.64 Ridge, brs. E. and W. Desc. 70 ft.
 75.03 Wash, 10 lks. wide, 3 ins. deep, course W. Asc. 35 ft.
 79.00 Desc. 20 ft.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 7 ins. in the ground, in a mound of stone, for cor. of secs. 8, 9, 16 and 17, marked on brass cap

T30N R16W
 S 8 | S 9
 S17 | S16
 1917

And raise a mound of stone, 2¹/₂ ft. base, 2¹/₂ ft. high, W. of cor.

Land, rolling and mountainous.
 Soil, rocky, 4th rate.
 No timber.

Chains.

Undergrowth, cactus, yucca and bayonet.

J.C.H.

S.F.W.

40.00 N. 89° 58' E., on a random line, bet. secs. 9 and 16.
 Set temp. $\frac{1}{4}$ sec. cor.
 80.28 Intersect N. and S. line, 14 lks. S. of the cor. of secs.
 9, 10, 15 and 16.
 Thence
 S. 89° 52' W., on a true line, bet. secs. 9 and 16.
 Over rolling land, through scattering undergrowth.
 Desc. 190 ft.
 30.00 Gulch, course N. 60° W. Asc. 85 ft.
 37.20 Spur, slopes N. 50° W. Desc. 200 ft.
 40.14 Set an iron post, 3 ft. long, 1 in. diam., in a mound of
 stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$ S 9
 S 16
 1917

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

57.40 Wash, course N. Asc. 85 ft.
 60.80 Spur, slopes N. 30° W. Desc. 65 ft.
 64.50 Gulch, course N. 40° W. Asc. 50 ft.
 71.00 Spur, slopes N. 30° W. Desc. 90 ft.
 79.00 Gulch, course N. 30° W. Asc. 10 ft.
 80.28 The cor. of secs. 8, 9, 16 and 17.
 Land, rolling.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, yucca and cactus.

S.F.W.

J.C.H.

N. 0° 3' W., bet. secs. 8 and 9.
 Over rolling land, through scattering undergrowth.
 Desc. 25 ft.
 3.99 Wash, course W. Asc. 40 ft.
 10.00 Ridge, brs. NW and SE. Desc. 155 ft.
 21.64 Wash, 3 chs. wide, course W. Asc. 100 ft.
 38.60 Ridge, brs. E. and W. Desc. 155 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., in a mound of
 stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
 S 8 | S 9
 1917

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

54.75 Wash, 40 lks. wide, course NW. Asc. 35 ft.
 59.00 Desc. 75 ft.
 64.59 Wash, 35 lks. wide, course NW. Asc.
 66.60 Spur, slopes NW. Desc. 50 ft.
 76.50 Wash, 4 chs. wide, course W. Asc. 15 ft.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the
 ground, in a mound of stone, for cor. of secs. 4, 5, 8
 and 9, marked on brass cap

T30N R16W
 S 5 | S 4
 S 8 | S 9
 1917

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

Chains

Soil, rocky, 4th rate.
No timber.
Undergrowth, cactus, yucca, and bayonet.

40.00 N. 59° 52' E., on a random line bet. secs. 4 and 9.
Set temp. $\frac{1}{4}$ sec. cor.
80.20 Intersect N. and S. line, 19 lks. N. of the true point for
cor. of secs. 3, 4, 9 and 10.

Thence

West on a true line, bet. secs. 4 and 9.
Over rolling land, through scattering undergrowth.
Desc. 110 ft.

19.35 Wash, course NW. Asc. 85 ft.
28.50 Ridge, brs. NW. and SE. Desc. 55 ft.
31.95 Asc. 45 ft.
37.00 Desc. 45 ft.

40.10 Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the
ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on
brass cap

$\frac{1}{4}$ S 4
 $\frac{1}{4}$ S 9
1917

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

Asc. 90 ft.
48.20 Desc. 105 ft.
58.20 Asc. 30 ft.
63.20 Desc. 90 ft.
80.20 The cor. of secs. 4, 5, 8 and 9.

Land, rolling.
Soil, rocky, 4th rate.
No timber.
Undergrowth, cactus, yucca and bayonet.

From the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of
the Tp., which is an iron post, described in Book "A,"
N. 0° 3' W., bet. secs. 31 and 32.
Over rolling land, along right bank of wash, course N.,
through scattering undergrowth.

9.00 Desc. 30 ft.
14.00 Asc. 40 ft.
19.00 Thence over gently rolling land.
25.50 Desc. 70 ft.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the
ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on
brass cap

$\frac{1}{4}$
S31 | S32
1917

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

45.00 Desc. 30 ft.
47.70 Thence over gently rolling land.
62.70 Desc. 70 ft.
67.56 Enter wash, course W.
77.50 Leave wash, course W. Asc. 40 ft.
80.00 Set an iron post, 3 ft. long, 2 ins. diam., in a mound of
stone, for cor. of secs. 29, 30, 31 and 32, marked on
brass cap

Chains.

T30N R16W
 $\frac{S30}{S31} \frac{S29}{S32}$
 1917

And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
 Land, rolling and gently rolling.
 Soil, rocky, and gravelly, 3rd rate.
 No timber.
 Undergrowth, yucca, greasewood, cat claw and cactus.

40.00 S.89° 57' E., on a random line, bet. secs. 29 and 32.
 Set temp. ¼ sec. cor.
 80.02 Intersect N. and S. line, 5 lks. S. of the cor. of secs. 28, 29, 32 and 33.
 Thence
 N.89° 59' W., on a true line, bet. secs. 29 and 32.
 Over rolling land, through scattering undergrowth.
 Desc. 95 ft.
 6.60 Wash, course NW. Asc. 35 ft.
 15.05 Spur, slopes NW. Desc. 25 ft.
 18.70 Thence over gently rolling land.
 26.70 Wash, course NW. Asc.
 38.70 Desc. 50 ft.
 40.01 Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground, in a mound of stone, for ¼ sec. cor., marked on brass cap

$\frac{1}{4} \frac{S29}{S32}$
 1917

And raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
 44.30 Wash, course NW. Thence over gently rolling land.
 80.02 The cor. of secs. 29, 30, 31 and 32.
 Land, rolling and gently rolling.
 Soil, rocky, 4th rate,
 No timber.
 Undergrowth, cactus, yucca and bayonet.

40.00 N.89° 57' W., on a random line, bet. secs. 30 and 31.
 Set temp. ¼ sec. cor.
 79.44 Intersect W. bdy. of T., 7 lks. S. of the cor. of secs. 25, 30, 31 and 36, which is an iron post, described in Book "A."
 Thence
 S.89° 54' E., on a true line, bet. secs. 30 and 31.
 Over rolling land, through scattering undergrowth.
 Asc. 115 ft.
 12.45 Desc. 20 ft.
 15.45 Asc. 45 ft.
 24.70 Ridge, brs. N. and S. Road on ridge, brs. N. and S. Desc. 120 ft.
 35.95 Wash, 4 chs. wide, course NE. Asc. 50 ft.
 39.44 Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground, in a mound of stone, for ¼ sec. cor., marked on brass cap

$\frac{1}{4} \frac{S30}{S31}$
 1917

And raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
 Desc.
 46.35 Wash, course N.60° E. Asc. 120 ft.

44

Subdivision of Part of T. 30 N., R. 16 W.

Chains.	
54.60	Spur, slopes N.20° E. Desc. 225 ft.
66.95	Enter wash, course N.
74.05	Leave wash, course N. Asc. 70 ft.
79.44	The cor. of secs. 29, 30, 31 and 32. Land, rolling and mountainous. Soil, rocky and gravelly, 3rd rate. No timber. Undergrowth, yucca, greasewood, cactus and cat claw.
	N.0° 3' W., bet. secs. 29 and 30. Over rolling land, through scattering undergrowth. Desc. 30 ft.
5.56	Wash, 6 chs. wide, course W. Asc. 30 ft.
12.00	Thence over rolling land.
26.20	Desc. 75 ft.
31.20	Asc. 30 ft.
35.20	Thence over gently rolling land.
40.00	Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap
	$\begin{array}{c} \frac{1}{4} \\ S30 S29 \\ 1917 \end{array}$
	And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Desc. 100 ft.
53.27	Wash, course NW. Asc. 85 ft.
68.00	Thence over gently rolling land.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for cor. of secs. 19, 20, 29 and 30, marked on brass cap
	$\begin{array}{c} T30N R16W \\ S19 S20 \\ \hline S30 S29 \\ 1917 \end{array}$
	And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Land, rolling and gently rolling. Soil, rocky, 4th rate. No timber. Undergrowth, cactus and yucca.
	J.C.H.
	S.F.W.
40.00	S.89° 59' E., on a random line, bet. secs. 20 and 29. Set temp. $\frac{1}{4}$ sec. cor.
79.88	Intersect N. and S. line, 2 lks. N. of the cor. of secs. 20, 21, 28 and 29. Thence N.89° 58' W., on a true line, bet. secs. 20 and 29. Over rolling land, through scattering undergrowth. Desc.
1.60	Enter wash, course N.60° W.
4.40	Leave wash, course N.60° W. Asc. 25 ft.
9.90	Spur, slopes N.40° W. Desc. 55 ft.
19.90	Gulch, course N.70° W. Asc. 25 ft.
24.90	Spur, slopes N.40° W. Desc. 45 ft.
30.90	Draw, course N. Asc. 30 ft.
36.90	Spur, slopes N.50° W.
58.94	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
	$\begin{array}{c} \frac{1}{4} S20 \\ S29 \\ 1917 \end{array}$

Chains.

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

51.15 Draw, course N.60° W. Asc.

51.90 Thence over gently rolling land.

59.10 Desc. 60 ft.

65.60 Wash, 90 lks. wide, 4 ft. deep, course N.40° W. Asc. 65 ft.

76.50 Spur, slopes N.20° W. Desc. 340 ft.

79.88 The cor. of secs. 19, 20, 29 and 30. Land, rolling and gently rolling. Soil, rocky, 3rd rate. No timber. Undergrowth, yucca and cactus.

40.00 N.89° 54' W., on a random line, bet. secs. 19 and 30. Set temp. ¼ sec. cor.

79.43 Intersect W. bdy. of Tp., 5 lks. N. of the cor. of secs. 19, 24, 25 and 30, which is an iron post, described in Book "A."

Thence S.89° 56' E., on a true line, bet. secs. 19 and 30. Over rolling land through scattering undergrowth. Desc. 130 ft.

8.80 Draw, course N. Asc. 95 ft.

13.70 Spur, slopes N. Asc. 110 ft.

30.00 Spur, slopes NW. Road on spur, brs. NW. to Grapevine canyon and S. to Duncan Ranch. Desc. 95 ft.

37.60 Draw, course N.30° W. Asc. 30 ft.

39.43 Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground, for ¼ sec. cor., marked on brass cap

1/4 S19
1/4 S30
1917

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

40.50 Ridge, brs. N. and S. Desc. 125 ft.

50.80 Draw, course N. Thence over level land.

65.30 Desc. 75 ft.

67.70 Enter wash, course N.

75.20 Leave wash, course N. Asc. 105 ft.

79.43 The cor. of secs. 19, 20, 29 and 30. Land, rolling. Soil, rocky, 4th rate. No timber. Undergrowth, cactus and yucca.

S.F.W.

J.C.H.

N.0° 3' W., bet. secs. 19 and 20. Over rolling land, through scattering undergrowth. Asc. 20 ft.

8.20 Desc. 155 ft.

27.50 Asc. 90 ft.

33.62 Spur, slopes W. Desc. 65 ft.

40.00 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for ¼ sec. cor., marked on brass cap

1/4 S19 | 1/4 S20
1917

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

45.00 Thence over gently rolling land.

65.00 Desc. 65 ft.

Chains.

73.17
80.00

Right bank of wash, brs. NE. and SW. Desc. 45 ft.
Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground, in a mound of stone, for cor. of secs. 17, 18, 19 and 20, marked on brass cap

T30N R16W
S18|S17
S19|S20
1917

And raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.
Land, rolling and gently rolling.
Soil, rocky, 4th rate.
No timber.

Undergrowth, yucca, cactus and bayonet.

J.C.H.

S.F.W.

40.00
79.78

S.89° 58' E., on a random line, bet. secs. 17 and 20.
Set temp. 1/4 sec. cor.
Intersect N. and S. line, 4 lks. N. of the cor. of secs. 16, 17, 20 and 21.

Thence

N.89° 56' W., on a true line, bet. secs. 17 and 20.
Over rolling land, through scattering undergrowth.
Asc. 30 ft.

9.80
14.20
20.80
27.00
32.40
37.10
38.80
39.89

Spur, slopes N.60° W. Desc. 90 ft.
Enter wash, course N.60° W.
Leave wash, course N.60° W. Asc. 105 ft.
Spur, slopes N.60° W. Desc.
Gulch, course N.40° W. Asc. 50 ft.
Spur, slopes N.30° W. Desc. 80 ft.
Enter wash, course N.20° W.
Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for 1/4 sec. cor., marked on brass cap

1/4 S17
1/4 S20
1917

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

43.20
53.40
64.60
68.40
73.30
79.78

Leave wash, course N.20° W. Asc. 30 ft.
Spur, slopes N.40° W. Desc. 75 ft.
Enter wash, course N.20° W.
Leave wash, course N. Asc. 45 ft.
Spur, slopes N. Desc. 75 ft.
The cor. of secs. 17, 18, 19 and 20.

Land, rolling.
Soil, rocky, 4th rate.
No timber.

Undergrowth, yucca and cactus.

40.00
79.42

N.89° 56' W., on a random line, bet. secs. 18 and 19.
Set temp. 1/4 sec. cor.
Intersect W. bdy. of Tp., 5 lks. N. of the cor. of secs. 13, 18, 19 and 24, which is an iron post, described in Book "A."

Thence

S.89° 58' E., on a true line, bet. secs. 18 and 19.
Over rolling land, through scattering undergrowth.

9.00
10.50
17.50
19.00
20.00
20.60

Desc. 10 ft.
Enter wash, course N.50° E.
Leave wash, course N. Asc. 25 ft.
Spur, slopes N. Desc. 10 ft.
Enter wash, course N.
Road, brs. N. to Grape Vine Canyon and S. to Duncan Ranch.

Chains.
 22.30 Leave wash, course N.20° W. Asc. 65 ft.
 28.40 Spur, slopes N. Desc. 25 ft.
 36.00 Gulch, course N. Asc. 125 ft.
 39.42 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

$\frac{1}{4}$ S18
 $\frac{1}{4}$ S19
 1917

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

48.30 Spur, slopes N.20° E. Desc. 30 ft.
 51.10 Head of gulch, course N.30° E. Asc. 30 ft.
 53.80 Spur, slopes N.40° E. Desc. 210 ft.
 67.40 Gulch, course N.50° E. Asc. 30 ft.
 70.00 Spur, slopes N.40° E. Desc. 75 ft.
 77.80 Enter wash, course N.60° E.
 79.42 The cor. of secs. 17, 18, 19 and 20.
 Land, rolling.
 Soil, 3rd rate.
 No timber.
 Undergrowth, greasewood and yucca.

S.F.W.

J.C.H.
 N.0° 3' W., bet. secs. 17 and 18.
 Over rolling land, through scattering undergrowth.
 Along wash,

13.50 Leave wash, course NE. Asc. 125 ft.
 18.73 Ridge, brs. N.40° E. and S.40° W. Desc. 80 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
 S18 | S17
 1917

And raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
 Asc. 70 ft.

50.44 Spur, slopes N.20° E. Desc. 115 ft.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground, in a mound of stone, for cor. of secs. 7, 8, 17 and 18, marked on brass cap

T30N R16W
 S 7 | S 8
 S18 | S17
 1917

And raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor;
 Land, rolling.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, yucca, cactus and bayonet.

40.00 S.89° 56' E., on a random line, bet. secs. 8 and 17.
 Set temp. $\frac{1}{4}$ sec. cor.
 79.69 Intersect N. and S. line, 5 lks. S. of the cor. of secs. 8, 9, 16 and 17.
 Thence
 N.89° 58' W., on a true line, bet. secs. 8 and 17.
 Over rolling land, through scattering undergrowth.
 Asc. 40 ft.
 2.50 Desc. 110 ft.

Chains.	
10.74	Wash, 50 lks. wide, course N. Asc.
13.00	Thence over gently rolling land.
21.30	Desc. 140 ft.
39.84½	Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for ¼ sec. cor., marked on brass cap
	$\begin{array}{r} S 8 \\ \frac{1}{4} S 17 \\ 1917 \end{array}$
	And raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
42.20	Wash, 5 chs. wide, course N. Asc. 225 ft.
61.54	Ridge, brs. N. and S. Desc 50 ft.
67.46	Wash, 50 lks. wide, course N. Asc. 70 ft.
75.50	Desc. 35 ft.
79.69	The cor. of secs. 7, 8, 17 and 18. Land, rolling and gently rolling. Soil, rocky, 4th rate. No timber. Undergrowth, cactus, yucca and bayonet.
	N. 89° 58' W., on a random line, bet. secs. 7 and 18.
40.00	Set temp. ¼ sec. cor.
79.22	Intersect W. bdy. of Tp., 2 lks. S. of the cor. of secs. 7, 12, 13 and 18, which is an iron post, described in Book "A."
	Thence S. 89° 57' E., on a true line, bet. secs. 7 and 18. Over rolling land, through scattering undergrowth. Desc. 140 ft.
32.25	Old road, brs. NE. and SW.
34.20	Thence over gently rolling land.
39.22	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground, in a mound of stone, for ¼ sec. cor., marked on brass cap
	$\begin{array}{r} S 7 \\ \frac{1}{4} S 18 \\ 1917 \end{array}$
	And raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
47.95	Wash, course N. 30° E. Road in wash, brs. N. 30° E. to Grapevine Canyon and S. 30° W. to Duncan Ranch.
52.40	Wash, course N. Asc. 80 ft.
70.70	Desc. 15 ft.
74.20	Asc. 30 ft.
79.22	The cor. of secs. 7, 8, 17 and 18. Land, rolling. Soil, rocky, 4th rate. No timber. Undergrowth, yucca, cactus and bayonet.
	N. 0° 3' W., bet. secs. 7 and 8. Over rolling land, through scattering undergrowth. Desc. 100 ft.
23.90	Wash, course NE. Asc. 35 ft.
29.00	Desc. 125 ft.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground, in a mound of stone, for ¼ sec. cor., marked on brass cap
	$\begin{array}{r} S 7 S 8 \\ 1917 \end{array}$

Chains.

And raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
 45.00 Desc. very gradually.
 58.20 Desc. 75 ft.
 68.35 Road, brs. NE. to Grapevine Canyon and SW. to Duncan Ranch.
 68.85 Wash, course NE. Asc. 30 ft.
 74.00 Thence over gently rolling land.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for cor. of secs. 5, 6, 7 and 8, marked on brass cap

T30N R16W
 S 6 | S 5
 S 7 | S 8
 1917

And raise a mound of stone, 2 ft. base, 2 ft. high, W. of cor.
 Land, rolling.
 Sp Soil, rocky, 4th rate.
 No timber.
 Undergrowth, yucca, cactus and bayonet.

40.00 S. 89° 58' E., on a random line, bet. secs. 5 and 8.
 Set temp. 1/2 sec. cor.
 79.88 Intersect N. and S. line, 9 lks. S. of the cor. of secs. 4, 5, 8 and 9.
 Thence
 S. 89° 58' W., on a true line, bet. secs. 5 and 8.
 Over rolling land, through scattering undergrowth.
 10.90 Desc. 120 ft.
 23.90 Enter wash; course NW.
 29.90 Leave wash, course NW.
 34.90 Wash, course N.
 39.94 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for 1/2 sec. cor., marked on brass cap

1/2 S 5
 S 8
 1917

And raise a mound of stone, 2 1/2 ft. base, 2 1/2 ft. high, N. of cor.
 42.80 Asc. 55 ft.
 42.80 Thence over gently rolling land.
 62.70 Desc. 35 ft.
 67.75 Wash, course NE. Asc. 45 ft.
 72.00 Road, brs. NE. to Grapevine Canyon and SW. to Duncan Ranch.
 79.88 The cor. of secs. 5, 6, 7 and 8.
 Land, rolling.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, cactus, yucca, bayonet, greasewood and cat claw.

40.00 N. 89° 57' W., on a random line, bet. secs. 6 and 7.
 Set temp. 1/2 sec. cor.
 79.22 Intersect W. bdy. of Tp., at the cor. of secs. 1, 6, 7 and 12, which is an iron post, described in Book "A."
 Thence
 S. 89° 57' E., on a true line, bet. secs. 6 and 7.
 Over rolling land, through scattering undergrowth.
 Asc. 35 ft.
 12.40 Ridge, brs. NE. and SW. Desc. very gradually, 150 ft.
 39.22 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for 1/2 sec. cor., marked on brass cap

Chains.

$$\frac{1}{4} \frac{S}{S} \frac{6}{7}$$
 1917

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

51.90

Asc.

57.20

Ridge, brs. NE. and SW. Desc. 100 ft.

69.20

Wash, course NE. Thence over gently rolling land.

79.22

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

Land, rolling and gently rolling.

Soil, rocky, 4th rate.

No timber.

Undergrowth, yucca, cactus, bayonet and cat claw.

J.C.H.

General Description.

The Grand Wash Cliffs run through this township in the eastern part, from north to south. They are very high and rough, sloping to the west and breaking into rough rocky foothills, which in turn slope off to a rolling north slope. The main drainage is Grape Vine Wash, in the western part, which runs into Grape vine canyon, thence into the Colorado River. The high parts are scatteringly timbered with scrub juniper and pinion, while the vegetation of the lower parts consists of black brush and cactus. The south eastern part has a fair stand of native grass and has a little value as grazing land. The balance of the township is worthless. There is a road through the western part from Hackberry to Pierce's ferry on the Colorado River. There are no settlers.

Book "N"

BOOK 3255

~ DATE DIAGRAM ~

Surveys executed on dates shown on this diagram by James C. Hooper, U. S. Transitman.

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

114

52
BOOK 3255

TRANSITMAN.

CERTIFICATE OF UNITED STATES ~~SURVEYOR~~

I, James C. Hooper, U. S. ~~Surveyor~~ Transitman, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General for Group 45, Arizona.

bearing date of the 7th day of January, 191 5, 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 Subdivision lines of

TOWNSHIP 30 NORTH, RANGE 16 WEST,

of the Gila and Salt

River Base and Meridian, in the State of Arizona, which are represented by the diagram on the reverse hereof and in 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 Instructions, and the special written instructions of the U. S. Surveyor General for Group 45, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

James C. Hooper
U. S. ~~Surveyor~~
Transitman.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

....., 191

The foregoing field notes of the survey of

executed by

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

.....
U. S. Surveyor General,

I certify that the foregoing transcript of the field notes of the above-described surveys in

....., has been correctly copied from the original notes on file in this office.

.....
U. S. Surveyor General.

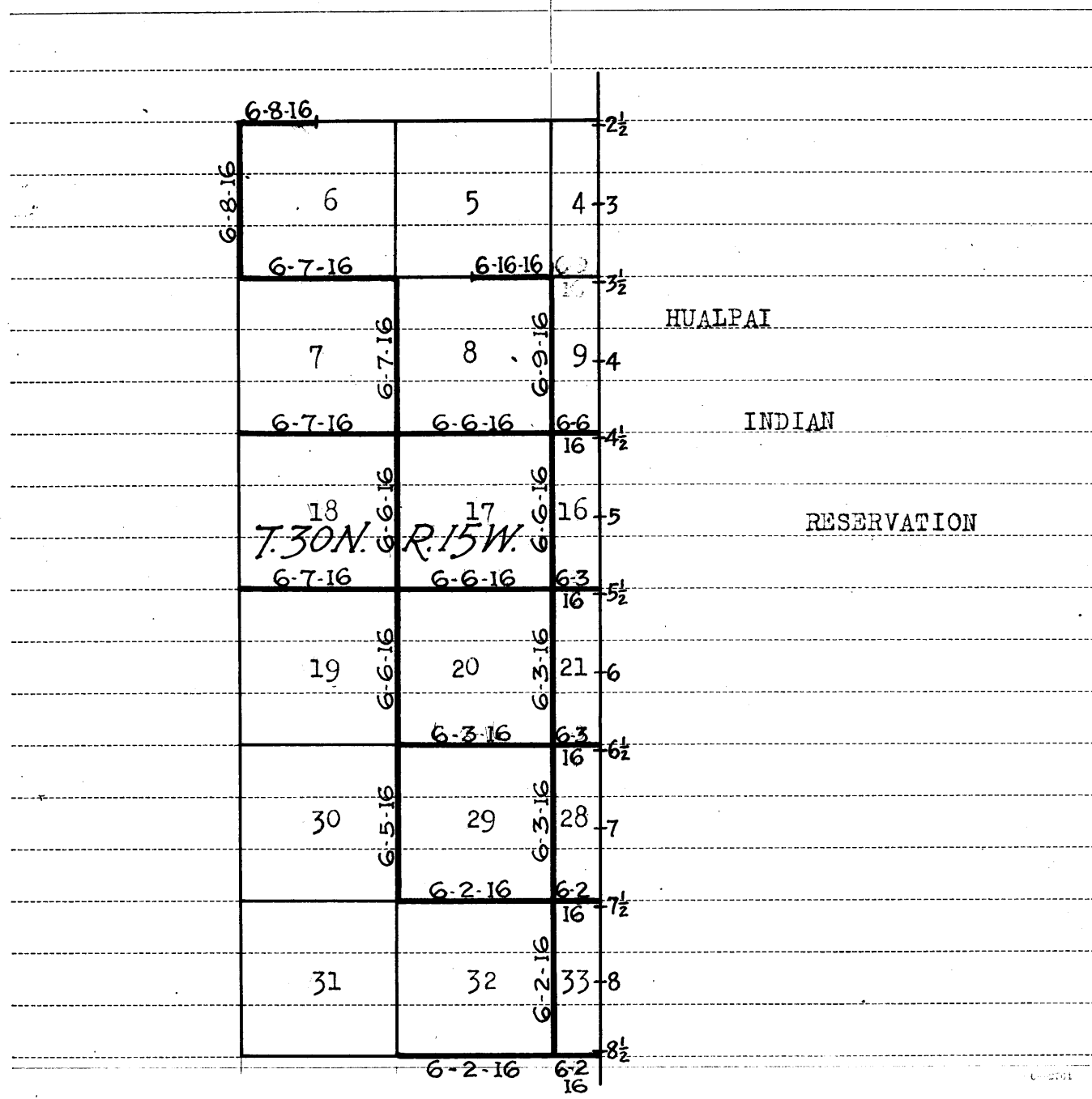
BOOK 3255

Book "N"

Group 45 - - - Arizona.

~ DATE DIAGRAM ~

Surveys executed on dates shown on this diagram by D.R. Averill, U. S. Transitman



TRANSITMAN.
CERTIFICATE OF UNITED STATES ~~SURVEYOR~~

I, D. R. Averill, U.S. Transitman, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General for Group 45, Arizona, bearing date of the 7th day of January, 1915, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, ~~surveyed all those parts or portions of the~~ retraced ~~Hualapai Indian Reservation, within Township 30 North, Range 15 West, and~~ surveyed all those parts or portions of the subdivision lines of Township 30 North, Range 15 West, of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented by the diagram on the reverse hereof and in 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 Instructions, and the special written instructions of the U. S. Surveyor General for for Group 45, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

D. R. Averill
U.S. Transitman

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

....., 191

The foregoing field notes of the survey of

executed by
under his special instructions dated, 191 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

.....
U. S. Surveyor General.

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

.....
U. S. Surveyor General.

BOOK 3255

Book "N."
Group 45 - - - Arizona.

~DATE DIAGRAM~

Surveys executed on dates shown
on these diagrams by S. Frank
Walters, U.S. Transitman.

6	5-14-17	5	5-11-17	4	5-15-17	3
7		8		9	5-10-17	3 1/2
18		17		16		4 1/2
T. 30N. R. 15W.						5
19		20		21		5 1/2
30		29		28		6 1/2
31		32		33		7 1/2
						8 1/2

HUALPAI

INDIAN

RESERVATION

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

Handwritten annotations in the diagram:

- 4-23-17 (vertical, between 9 and 10)
- 5-16-17 (horizontal, between 10 and 11)
- 4-14-17 (horizontal, between 18 and 19)
- 4-14-17 (horizontal, between 17 and 18)
- 4-14-17 (horizontal, between 16 and 17)
- 4-24-17 (horizontal, between 15 and 16)
- 4-18-17 (vertical, between 29 and 30)
- 4-18-17 (vertical, between 32 and 33)
- 4-23-17 (vertical, between 21 and 22)
- 4-24-17 (vertical, between 22 and 23)
- 5-16-17 (horizontal, between 22 and 23)
- T. 30N. R. 16W. (centered in the 16-17 area)

CERTIFICATE OF UNITED STATES ~~SURVEYOR~~

I, S. Frank Walters, U. S. Transitman, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General for Group 45, Arizona, bearing date of the 7th day of January, 1915, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, ~~surveyed~~ ^{retraced} all those parts or portions of the boundary of the Hualpai Indian Reservation, within Township 30 North, Range 15 West, and surveyed all those parts or portions of the subdivision lines of Township 30 North, Range 15 West, and Township 30 North, Range 16 West,

of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented by the diagrams on the reverse hereof and in 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 Instructions, and the special written instructions of the U. S. Surveyor General for Group 45, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

S. Frank Walters
U. S. Surveyor

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

....., 191

The foregoing field notes of the survey of

executed by under his special instructions dated, 191 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

.....
U. S. Surveyor General.

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

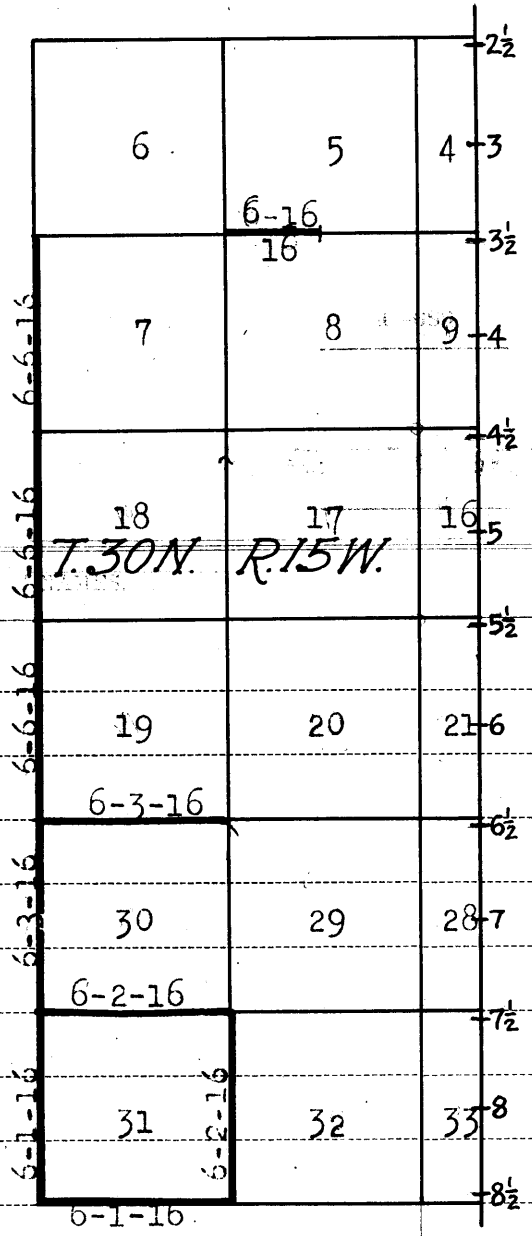
.....
U. S. Surveyor General.

BOOK 2255

Book "N"
Group 45 - - - Arizona.

~DATE DIAGRAM~

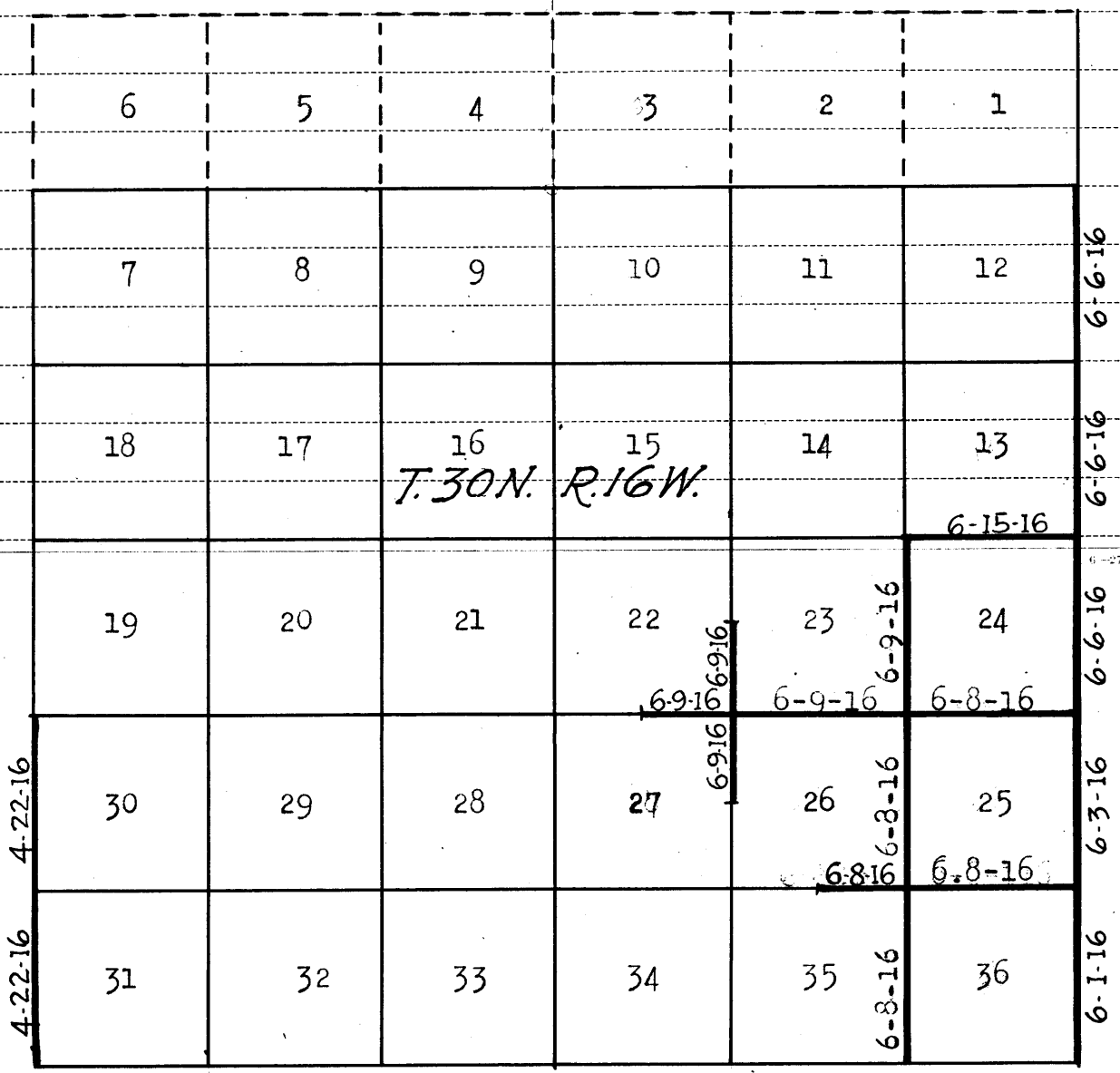
Surveys executed on dates shown
on these diagrams by E.J. Lange,
U.S. Surveyor.



HUALPAI

INDIAN

RESERVATION



CERTIFICATE OF UNITED STATES SURVEYOR.

I, E. J. Lange, U. S. Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General for Group 45, Arizona, bearing date of the 7th day of January, 1915, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Subdivision lines of TOWNSHIP 30 NORTH, RANGE 15 WEST, and TOWNSHIP 30 NORTH, RANGE 16 WEST, of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented by the diagrams on the reverse herof and in 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 Instructions, and the special written instructions of the U. S. Surveyor General for Group 45, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

E. J. Lange U. S. Surveyor.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, March 17, 1919.

The foregoing field notes of the survey of Retracement of part of the boundary of the Hualpai Indian Reservation within Township 30 North, Range 15 West, and of the survey of parts of the Subdivision lines of Township 30 North, Ranges 15 and 16 West, of the Gila and Salt River Base and Meridian, in the State of Arizona, executed by E. J. Lange, U. S. Surveyor, and D. R. Averill, S. Frank Walters, and James C. Hooper, U. S. Transitmen,

under his special instructions dated Jany. 7, 1915, for Group 45, Arizona, +1, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank P. Smith 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.