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BCCK 3565

FIELD NOTES

OF THE RETRACEMENT OF

Part of the Boundary of the Hualpai Indian Reservation, and
 OF THE SURVEY OF THE
 Seventh Standard Parallel North, thru part of Range 15 West, (Completion)
 East boundary,
 Part of the North boundary (completion), and
 Part of the Subdivision lines (completion)

of

TOWNSHIP 29 NORTH, RANGE 15 WEST,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

Thomas D. Daley, U.S. Surveyor,

and

William E. Hiester, U.S. Transitman,

*In the capacity of U. S. Surveyors, under instructions dated February 27., 1920.,
 issued by the United States Surveyor General to govern surveys included in
 Group No. 110, Ariz, which were approved by the Commissioner of the General Land
 Office, March 10., 1920, and Assignment Instructions dated
 June 27, 1921.*

Retracement and Survey commenced July 6., 1921.

Retracement and Survey completed July 19., 1921.

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7th Standard Parallel North

→ Green = accepted surveys.

— Black = surveyed under this group.

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DATE DIAGRAM

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TOWNSHIP 29 NORTH, RANGE 15 WEST

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7th Standard Parallel North

- Green lines on above diagram indicate surveys executed by Thomas D. Daley, U. S. Surveyor, on dates shown thereon.
- Red lines indicate surveys executed by William E. Niester, U. S. Transitman, on dates shown thereon.
- Black lines indicate accepted surveys.

Surveys hereinafter described executed by Thos. D. Daley, U. S. Surveyor and William E. Hiester, U. S. Transitman, on dates shown on diagram on page 1 hereof, using respectively Buff solar transit No. 9977 and Young and Sons light mountain transit No. 8429. Both instruments are provided with full vertical circles and solar attachments, the verniers of which, as well as of the horizontal plates, read to single minutes. All azimuth determinations are accomplished with the solar attachments, except the special observations upon Polaris for meridian, upon which to test the solar apparatus, as stated in the field notes.

These instruments were approved for field work, conditional upon satisfactory field tests, by the Assistant Supervisor of Surveys for Arizona and California, June 27, 1921.

We examine the adjustments of the transits and correct all errors; then, to test the solar apparatus, by comparing their indications, resulting from solar observations made during a. m. and p. m. hours, with a meridian determined by observations on Polaris at elongation, we proceed as follows:

July 4, 1921: at our camp near the cor. of secs. 23, 24, 25 and 26, T. 29 N., R. 15 W., G. and S. R. B. and M., lat. $35^{\circ} 53'$ N., long. $113^{\circ} 51\frac{1}{2}'$ W., at 0 hrs. 48.6 m., a. m., l. m. t., we observe Polaris at eastern elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined by a tack in a stake firmly driven in the ground, 5 chs. N. of our station.

July 5, 1921: at 8 hrs. 0 m., a. m., l. m. t., we lay off the azimuth of Polaris, $1^{\circ} 23'$ to the west, and mark the true meridian thus determined by a tack in a stake, firmly driven in the ground, 5 chs. N. of our station.

At 9 hrs. 0 m., a. m., l. m. t., we set off $35^{\circ} 53'$ N., on the lat. arcs; $22^{\circ} 48\frac{1}{2}'$ N., on the decl. arcs; and determine a meridian with each solar which agrees with the true meridian.

At apparent noon, with the lat. arcs unchanged, we observe the sun on the meridian with each solar; the resulting decl. in each case is $22^{\circ} 48'$ N., which is the computed decl. of the sun.

At 3 hrs. 0 m., p. m., l. m. t., with the lat. arcs unchanged, we set off $22^{\circ} 47\frac{1}{2}'$ N. on the decl. arcs; and determine a meridian with each solar which agrees with the true meridian.

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

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

Retracement of that Part of the Hualpai Indian Reservation Boundary Between the 11½ and 12½ Mile Cors.

Chains

That portion of the West Boundary of the Hualpai Indian Reservation forming the West Boundary of the part of T. 29 N., R. 15 W., surveyed at this time was originally surveyed in August, 1900, by Albert T. Colton, U. S. Deputy Surveyor. During the survey under Group 45 of that part of T. 29 N., R. 15 W. lying outside and closing upon, the Reservation, retracements of portions of the boundary were made by E. J. Lange, U. S. Surveyor, & D. R. Averill, U. S. Transitman, in 1916 and by J. P. Davis, U. S. Surveyor, in 1919. No record, however, of a previous retracement of the following mile is on file. The iron post cors. hereinafter described are the cors. set under Group 45.

The 12½ mile cor. on the West Boundary of the Hualpai Indian Reservation is a limestone, 6 x 14 x 6 ins., above ground, marked HIR 12½M on E., and PL on W. face, and witnessed by a mound of stone, W. of cor.

Thence North, on retracement of N. half of 13th Mile. Over rolling and mountainous land, through scattering timber and undergrowth.

Desc. 90 ft.

0.14 Intersect the closing cor. of secs. 21 and 28, which is an iron post, 2 ins. diam., 12 ins. above ground, properly marked, witnessed by two bearing trees.

4.40 Wash, 15 lks. wide, 4 ft. deep, course W. Asc. 95 ft.

11.19 Spur, slopes SW. Desc. 30 ft.

21.15 Asc. 150 ft.

33.36 Thence along W. slope.

39.71 Fall 6 lks. W. of the 12 mile cor., which is a malpais rock, 6 x 10 x 8 ins. above ground, marked HIR 12 M on E. and PL on W. face, and witnessed by a mound of stone, W. of cor.

The true course and distance of this half mile are therefore N. 0° 5' E., 39.71 chs.

From the 12 mile cor.,

North on retracement of S. half of the 12th mile.

Over rolling and mountainous land, through scattering timber and undergrowth. Along W. slope.

19.61 Desc. 220 ft.

39.29 Center of wash, 75 lks. wide, 4 ft. deep, course N.80° W.

39.70 Fall 6 lks. W. of the 11½ mile cor., which is a malpais rock, 6 x 10 x 6 ins. above ground, marked HIR 11½ M on E. and PL on W. face, and witnessed by a mound of stone, W. of cor.

The true course and distance of this half mile are therefore N. 0° 5' E., 39.70 chs.

Land, rolling and mountainous.

Soil, rocky, 3rd rate.

Timber, juniper and pine.

Undergrowth, black brush.

Fair grazing.

Completion of the Survey of the
Seventh Standard Parallel North through Range 15 West.

Chains The standard closing cor. of sec. 33, T. 29 N., R. 15 W., on the Hualpai Indian Reservation Boundary, is an iron post, 3 ins. diam., set in a mound of stone, properly marked, witnessed by a mound of stone, W. of cor., and established 17.77 chs. East of the standard cor. of secs. 32 and 33.

Thence

East, along the S. bdy. of sec. 33.
Over rolling land, through dense timber and undergrowth.
20.48 Center of draw, 3 chs. wide, course N. 60° E.
22.23 (40.00 chs. East of the std. cor. of secs. 32 and 33).
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for standard $\frac{1}{4}$ sec. cor., marked on brass cap

S C
 $\frac{1}{4}$ S 33
1921

From which

A juniper, 8 ins. diam., brs. N. 72 $\frac{1}{2}$ ° E., 171 lks.
dist., marked $\frac{1}{4}$ S 33 S C B T.
A juniper, 12 ins. diam., brs. N. 71° W., 350 lks.
dist., marked $\frac{1}{4}$ S 33 S O B T.
Raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Asc.
47.00 Spur, slopes N. 30° E. Desc.
55.20 Ravine, course NE. Asc.
62.23 (80.00 chs. East of the std. cor. of secs. 32 and 33).
Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground, in a mound of stone, for standard cor. of secs. 33 and 34, marked on brass cap

S C
T 29 N R 15 W
S 33 S 34
1921

From which

A pinyon, 10 ins. diam., brs. N. 40 $\frac{1}{2}$ ° E., 160 lks.
dist., marked T 29 N R 15 W S 34 S C B T.
A juniper, 10 ins. diam., brs. N. 43° W., 235 lks.
dist., marked T 29 N R 15 W S 33 S C B T.
Land, rolling.
Soil, 4th rate.
Timber, juniper and pinyon.
Undergrowth, scrub oak, cat-claw, buck brush and black brush.
Fair grazing.

East, on S. bdy. of sec. 34.

Over rolling land, through scattering timber and undergrowth. Desc. 85 ft.
11.50 Draw, course SE. Asc. gradually.
35.00 Leave timber, enter open flat, 6 chs. wide, extending E.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for standard $\frac{1}{4}$ sec. cor., marked on brass cap

S C
 $\frac{1}{4}$ S 34
1921

From which

Completion of the Survey of the Seventh Standard Parallel North through Range 15 West.

3565

Chains

A juniper, 14 ins. diam., brs. N. $17\frac{1}{2}^{\circ}$ E., 266 lks. dist., marked $\frac{1}{4}$ S 34 S C B T.
 A juniper, 8 ins. diam., brs. N. $53\frac{3}{4}^{\circ}$ W., 200 lks. dist., marked $\frac{1}{4}$ S 34 S C B T.
 74.00 Leave open land, enter timber, brs. NW. and SE.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground, in a mound of stone, for standard cor. of secs. 34 and 35, marked on brass cap

S C
 T 29 N R 15 W
S 34 | S 35
 1921

From which

A pinyon, 10 ins. diam., brs. N. $9\frac{1}{2}^{\circ}$ E., 82 lks. dist., marked T 29 N R 15 W S 35 S C B T.
 A pinyon, 20 ins. diam., brs. N. $39\frac{1}{2}^{\circ}$ W., 258 lks. dist., marked T 29 N R 15 W S 34 S C B T.

Land, rolling and level.
 Soil, 3rd rate.
 Timber, pinyon and juniper.
 Undergrowth, scrub oak, black brush, buck brush and cactus
 Fair grass.

East on a true line, along the S. bdy. of sec. 35.
 Over level land, through scattering timber and under growth.

24.50 Road, brs. N. to storage tanks and S. to Clay Springs.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground, in a mound of stone, for standard $\frac{1}{4}$ sec. cor., marked on brass cap

S C
 $\frac{1}{4}$ S 35
 1921

From which

A juniper, 8 ins. diam., brs. N. $53\frac{1}{4}^{\circ}$ E., 65 lks. dist., marked $\frac{1}{4}$ S 35 S C B T.
 A juniper, 10 ins. diam., brs. N. $29\frac{1}{2}^{\circ}$ W., 75 lks. dist., marked $\frac{1}{4}$ S 35 S C B T.

50.00 Leave timber, brs. N. 70° E., and S. 70° W.
 56.50 Ravine, 6 lks. wide, course N. 70° E. Asc. 75 ft.
 73.00 Enter timber, brs. NE. and SW.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 14 ins. in the ground, in a mound of stone, for standard cor. of secs. 35 and 36, marked on brass cap

S C
 T 29 N R 15 W
S 35 | S 36
 1921

From which

A pinyon, 18 ins. diam., brs. N. $43\frac{1}{2}^{\circ}$ E., 83 lks. dist., marked T 29 N R 15 W S 36 S C B T.
 A pinyon, 18 ins. diam., brs. N. 16° W., 136 lks. dist., marked T 29 N R 15 W S 35 S C B T.

Land, level and rolling.
 Soil, 3rd rate.
 Timber, pinyon and juniper.
 Undergrowth, scrub oak, buck brush, cat claw and cactus.
 Fair grazing.

Completion of the Survey of the
Seventh Standard Parallel North through Range 15 West.

Chains East, along the S. bdy. of sec. 36.
Over rolling land, through scattering timber and under-
growth. Asc. 30 ft.
5.00 Desc. 90 ft.
22.00 Center of draw, 1 ch. wide, course N. 40° E. Asc. 90 ft.
31.70 Spur, slopes N. 40° E. Desc. 45 ft.
38.70 Ravine, course NE. Asc.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the
ground, in a mound of stone, for standard $\frac{1}{4}$ sec. cor.,
marked on brass cap

S C
 $\frac{1}{4}$ S 36
1921

From which

A juniper, 20 ins. diam., brs. N. 32 $\frac{1}{2}$ ° E., 143
lks. dist., marked $\frac{1}{4}$ S 36 S C B T.

A pinyon, 16 ins. diam., brs. N. 24 $\frac{1}{2}$ ° W., 86 lks.
dist., marked $\frac{1}{4}$ S 36 S C B T.

Asc. 30 ft.

65.00 Spur, slopes NE. Desc. 25 ft.

68.70 Draw, course NE. Asc. 30 ft.

77.50 Spur, slopes N. Desc. 25 ft.

80.00 Set an iron post, 3 ft. long, 3 ins. diam., 20 ins. in
the ground, in a mound of stone, for standard cor.
of Ts. 29 N., Rs. 14 and 15 W., marked on brass cap.

S C
T 29 N
R 15 W | R 14 W
S 36 | S 31
1921

From which

A juniper, 8 ins. diam., brs. N. 26 $\frac{1}{2}$ ° E., 26 lks.
dist., marked T 29 N R 14 W S 31 S C B T.

A juniper, 10 ins. diam., brs. N. 25 $\frac{1}{2}$ ° W., 64 lks.
dist., marked T 29 N R 15 W S 36 S C B T.

Land, rolling.

Soil, 2nd and 4th rates.

Timber, juniper and pinyon.

Undergrowth, buck brush, scrub oak, cat claw, and cactus.

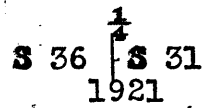
Fair grazing.

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Survey of the East Boundary
of T. 29 N., R. 15 W.

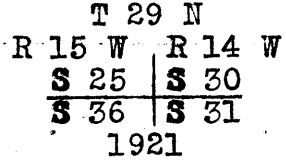
Chains From the standard cor. of Ts. 29 N., Rs. 14 and 15 W.,
hereinbefore described.
North, bet. secs. 31 and 36.
Over rolling land, through scattering timber and under-
growth. Desc. 85 ft.

9.00 Thence over level land.
18.00 Draw, course S. 70° E.
22.00 Leave level land; asc. 50 ft.
40.00 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



From which
A juniper, 14 ins. diam., brs. N. 19 $\frac{1}{2}$ ° E., 102
lks. dist., marked $\frac{1}{4}$ S 31 B T.
A juniper, 12 ins. diam., brs. S. 54° W., 139
lks. dist., marked $\frac{1}{4}$ S 36 B T.

Continue ascent, 45 ft.
47.50 Spur, slopes E. Desc. 75 ft.
66.70 Enter level land, and leave timber, brs. N. 75° E., and
S. 75° W.
79.20 Leave flat and enter timber, brs. E. and W.
80.00 Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in
the ground, in a mound of stone with marked (X) stone
for cor. of secs. 25, 30, 31 and 36, marked on brass
cap



From which
A juniper, 12 ins. diam., brs. N. 61 $\frac{1}{2}$ ° E., 21
lks. dist., marked T 29 N R 14 W S 30 B T.
A juniper, 20 ins. diam., brs. S. 81 $\frac{1}{2}$ ° W., 87
lks. dist., marked T 29 N R 15 W S 36 B T.
A juniper, 9 ins. diam., brs. N. 59 $\frac{1}{2}$ ° W., 189
lks. dist., marked T 29 N R 15 W S 25 B T.

No other trees within limits.
Land, level and rolling.
Soil, 2nd and 4th rates.
Timber, juniper and pinyon.
Undergrowth, scrub oak, cat claw, black brush and cactus.
Fair grazing.

North, bet. secs. 25 and 30.
Over rolling land, through scattering timber and under-
growth. Asc. 85 ft.

20.00 Continue gradual ascent.
36.00 Ridge, brs. N. 70° E., and S. 70° W. Desc.
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



From which
A juniper, 14 ins. diam., brs. S. 24 $\frac{1}{4}$ ° E., 138
lks. dist., marked $\frac{1}{4}$ S 30 B T.

Survey of the East Boundary
of T. 29 N., R. 15 W.

Chains A juniper, 10 ins. diam., brs. $79\frac{1}{2}^{\circ}$ W., 97
lks. dist.; marked $\frac{1}{4}$ S 25 B T.
Continue descent, 150 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. 19, 24,
25 and 30, marked on brass cap

T 29 N
R 15 W R 14 W
S 24 | S 19
S 25 | S 30
1921

From which

A juniper, 14 ins. diam., brs. N. $11\frac{1}{2}^{\circ}$ E., 100
lks. dist., marked T 29 N R 14 W S 19 B T.
A juniper, 10 ins. diam., brs. S. 50° E., 190
lks. dist., marked T 29 N R 14 W S 30 B T.
A juniper, 16 ins. diam., brs. S. $54\frac{1}{2}^{\circ}$ W., 205
lks. dist., marked T 29 N R 15 W S 25 B T.
A juniper, 18 ins. diam., brs. N. $31\frac{1}{2}^{\circ}$ W., 50 lks.
dist., marked T 29 N R 15 W S 24 B T.

Land, rolling.

Soil, rocky, 4th rate.

Timber, juniper and pinyon.

Undergrowth, scrub oak, buck brush, black brush, cat claw
and cactus.

Fair grazing.

North, bet. secs. 19 and 24.

Over rolling and mountainous land, through scattering tim-
ber and undergrowth. Desc.

0.80 Ravine, 8 lks. wide, course NE. Asc.
9.30 Short spur, slopes N. 70° E. Desc.
12.40 Wash, 12 lks. wide, course E. Asc. 115 ft.
22.20 Ridge, brs. NW. and SE. Desc. 150 ft.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor.; marked on brass cap

$\frac{1}{4}$
S 19 | S 24
1921

From which

A juniper, 8 ins. diam., brs. N. 39° E., 65 lks.
dist., marked $\frac{1}{4}$ S 24 B T.
A juniper, 10 ins. diam., brs. N. $33\frac{3}{4}^{\circ}$ W., 38 lks.
dist., marked $\frac{1}{4}$ S 19 B T.

Continue descent.

41.00 Wash, 10 lks. wide, course E. Asc. 140 ft.
64.00 Spur, slopes E. Desc. 35 ft.
80.00 Set an iron post, 3 ft. long, 2 ins. diam., on bed rock,
in a mound of stone, for cor. of secs. 13, 18, 19 and
24, marked on brass cap

T 29 N
R 15 W R 14 W
S 13 | S 18
S 24 | S 19
1921

From which

A juniper, 10 ins. diam., brs. N. 29° E., 379 lks.
dist., marked T 29 N R 14 W S 18 B T.
A juniper, 8 ins. diam., brs. S. 35° E., 180 lks.
dist., marked T 29 N R 14 W S 19 B T.

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Survey of the East Boundary
of T. 29 N., R. 15 W.

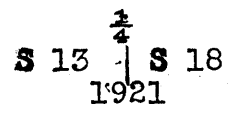
Chains

A juniper, 10 ins. diam., brs. S. 35° W., 280 lks. dist., marked T 29 N R 15 W S 24 B T.
A juniper, 8 ins. diam., brs. N. 40 1/2° W., 64 lks. dist., marked T 29 N R 15 W S 15 B T.

Land, rolling and mountainous.
Soil, rocky, 4th rate.
Timber, juniper and pinyon.
Undergrowth, scrub oak, cat claw, buck brush, black brush and cactus.
Fair grazing.

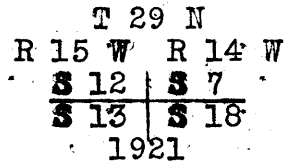
North, bet. secs. 13 and 18.
Over rolling and mountainous land, through scattering timber and undergrowth. Desc. 80 ft.

- 10.90 Ravine, 14 lks. wide, 20 ft. deep, course NE. Asc. 25 ft.
- 19.50 Spur, slopes NE. Desc. 175 ft.
- 29.00 Wash, 12 lks. wide, course E. Asc. 145 ft.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., on bed rock, with marked stone, for 1/4 sec. cor.; and raise a mound of stone, around post, with brass cap marked



Continue ascent, 75 ft.

- 58.00 Spur, slopes E. Desc. 70 ft.
- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground, in a mound of stone with marked (X) stone, for cor. of secs. 7, 12, 13 and 18, marked on brass cap



From which

A juniper, 10 ins. diam., brs. N. 53° W., 50 lks. dist., marked T 29 N R 15 W S 12 B T.

No other trees within limits.
Land, rolling and mountainous.
Soil, rocky, 4th rate.
Timber, juniper and pinyon.
Undergrowth, scrub oak, buck brush, black brush and cactus.
Fair grazing.

North, bet. secs. 7 and 12.
Over mountainous land, through scattering timber and undergrowth. Desc. 115 ft.

- 15.00 Asc. 45 ft.
- 22.90 Desc. 85 ft.
- 31.00 Wash, 10 lks. wide, course E. Asc. 135 ft.
- 31.50 Road, brs. E. and SW. to Clay Springs.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground, with marked (X) stone, for 1/4 sec. cor.; and raise a mound of stone around post, with brass cap marked

Survey of the East Boundary
of T. 29 N., R. 15 W.

Chains

T 29 N
S 12 | S 7
1921

- Continue ascent, 35 ft.
- 45.00 Spur, slopes NE. Desc. 100 ft.
- 55.00 Canyon, 10 lks. wide, course NE. Asc. 25 ft.
- 62.10 Spur, slopes E. Desc. 75 ft.
- 66.95 Asc. 105 ft.
- 70.85 Desc. 20 ft.
- 72.20 Head of deep canyon, course NE. Asc. 30 ft.
- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground, with cross (X) at foot of post, for cor. of secs. 1, 6, 7 and 12; and raise a mound of stone around post, with brass cap marked.

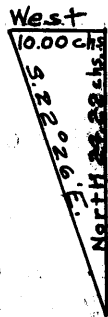
T 29 N
R 15 W | R 14 W
S 1 | S 6
S 12 | S 7
1921

Rim of canyon brs. East 1.78 chs. dist.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, juniper.
Undergrowth, scrub oak, cat claw, buck brush and cactus.
Fair grazing.

- North, bet. secs. 1 and 6.
Over rolling land, through scattering undergrowth.
Asc. 30 ft.
- 6.00 Spur, slopes NE. Desc. 110 ft.
- 20.50 Ravine, 12 lks. wide, 50 ft. deep, course NE. Asc. 50 ft.
- 28.00 Spur, slopes NE. Desc.
- 33.30 Rim of impassable canyon, 900 ft. deep, brs. NE. and SW.
Set an iron post, 3 ft. long, 1 in. diam., on bed rock, with marked (X) stone, for witness cor. to $\frac{1}{4}$ sec. cor.; and raise a mound of stone around post, with brass cap marked

W C
S 1 | S 6
1921

Impracticable to chain from this point. Set a flag ahead on line, from which I measure a base West 10.00 chs. From end of base, flag at the 33.30 ch. point brs. S. 22° 26' E. The three angles of the triangle are therefore 22° 26', 90° and 67° 34', the sum of which is 180°. The distance triangulated is given by $\cot. 22^\circ 26' \times 10 = 2.42218 \times 10 = 24.22$ chs., which added to 33.30 chs., gives.

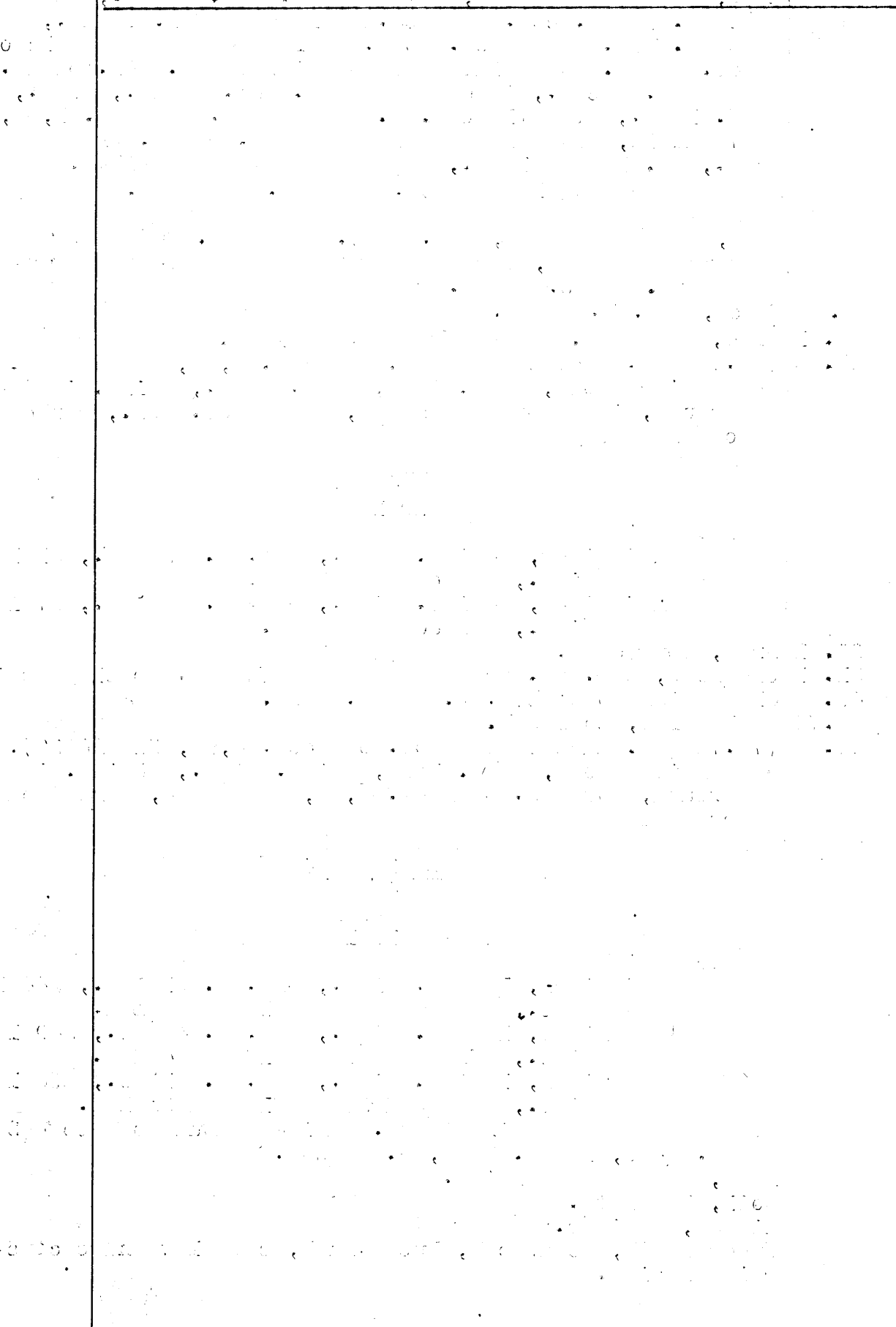


- 57.52 North rim of canyon, brs. NE. and SW. Thence over rolling land.
- 80.12 A point due East of the closing cor. of Ts. 29 and 30., R. 15 W., hereafter described. Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of Ts. 29 and 30 N., Rs. 14 and 15 W., marked on brass cap

T 30 N
R 15 W | R 14 W
S 36 | S 31
T 29 N
1921

Survey of the East Boundary
of T. 29 N., R. 15 W.

Chains. And raise a mound of stone, 2 ft. base, 1½ ft. high,
 S. of cor.
 Land, rolling and mountainous.
 Soil, rocky, 4th rate.
 Timber, none.
 Undergrowth, scrub oak, cat claw, buck brush and cactus.
 Fair grazing.



Completion of the Survey of the
North Boundary of T. 29 N., R. 15 W.

Chains The closing cor. of secs. 4 and 33, on the N. bdy. of T. 29 N., R. 15 W., and the West bdy. of the Hualpai Indian Reservation is an iron post, 3 ins. diam., projecting 12 ins. above ground, properly marked, witnessed by a mound of stone, W. of cor., and established 17.84 chs. East of the cor. of secs. 4, 5, 32 and 33.

Thence
East, on a random line, along the N. bdy. of Tp., setting temp. $\frac{1}{4}$ sec. cor. of secs. 4 and 33 at 21.00 chs., and temp. sec. and $\frac{1}{4}$ sec. cors. thereafter at intervals of 40.00 chs. to an intersection with the E. bdy. of Tp. At 300.88 chs., intersect the E. bdy. of Tp., 29 N., R. 15 W., at 80.12 chs. N. of the cor. of secs. 1, 6, 7 and 12, where I establish the cor. of Ts. 29 and 30 N., Rs. 14 and 15 W., as hereinbefore described.

I return to the closing cor. of secs. 4 and 33.

Thence
East, on a true line, bet. secs. 4 and 33.
Over rolling land, through scattering timber and undergrowth. Desc. 35 ft.

3.06 Fence, brs. N. and S.

5.21 Draw, course N. Thence over level land.

20.88 (38.72 chs. East of the cor. of secs. 4, 5, 32 and 33).
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

$\frac{1}{4}$	S 33
$\frac{1}{4}$	S 4
1921	

From which
A juniper, 24 ins. diam., brs. N. $55\frac{1}{2}^{\circ}$ W., 81 lks.
dist., marked $\frac{1}{4}$ **S 33** B T.
A juniper, 24 ins. diam., brs. S. $52\frac{1}{4}^{\circ}$ E., 27 lks.
dist., marked $\frac{1}{4}$ **S 4** B T.

26.01 Draw, course NE.

31.01 Old road, brs. NE. to storage tanks and SW. to Clay Springs.

49.20 Old Indian house brs. **S**. 4 chs. dist.

58.76 Small draw, course N.

60.88 (78.72 chs. East of the cor. of secs. 4, 5, 32 and 33).
Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, for cor. of secs. 3, 4, 33 and 34, marked on brass cap

T 30 N	R 15 W
S 33	S 34
S 4	S 3
T 29 N	
1921	

From which
A juniper, 12 ins. diam., brs. S. $61\frac{1}{2}^{\circ}$ E., 344 lks.
dist., marked T 29 N R 15 W **S 3** B T.
A juniper, 14 ins. diam., brs. S. 49° W., 349 lks.
dist., marked T 29 N R 15 W **S 4** B T.
A juniper, 12 ins. diam., brs. N. 81° W., 258 lks.
dist., marked T 30 N R 15 W **S 3** B T.

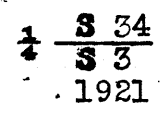
No other trees within limits. Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, level and rolling.
Soil, 1st rate.
Timber, juniper.
Undergrowth, scrub oak, buck brush, cat claw and cactus.
Fair grazing.

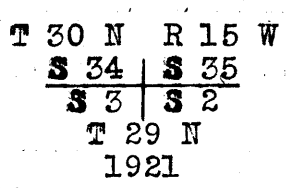
BOOK 3565

Completion of the Survey of the North Boundary of T. 29 N., R. 15 W.

Chains East, on a true line, bet. secs. 3 and 34.
 Over level land, through scattering timber and undergrowth.
 5.00 Leave level land. Asc. 80 ft.
 14.93 Desc. very gradually, 25 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground, with marked (X) stone, 8 x 6 x 6 ins., for $\frac{1}{4}$ sec. cor.; and raise a mound of stone around post, with brass cap marked

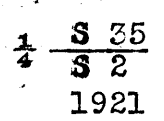


Continue descent, 50 ft.
 59.90 Thence over level land.
 62.47 Draw, course N.
 68.95 Draw, course NE.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground, with marked (X) stone, for cor. of secs. 2, 3, 34 and 35; and raise a mound of stone around post, with brass cap marked

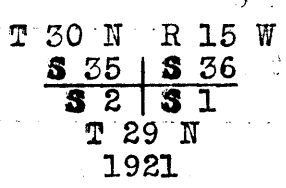


Land, level and rolling.
 Soil, 1st rate.
 Timber, juniper.
 Undergrowth, black brush and sagebrush.
 Fair grazing.

East, on a true line, bet. secs. 2 and 35.
 Over level land, through scattering undergrowth.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground, with marked (X) stone, for $\frac{1}{4}$ sec. cor.; and raise a mound of stone around post, with brass cap marked



80.00 Set an iron post, 3 ft. long, 2 ins. diam., 14 ins. in the ground, with marked (X) stone, 12 x 8 x 6 ins., for cor. of secs. 1, 2, 35 and 36; and raise a mound of stone around post, with brass cap marked



Land, level.
 Soil, 1st rate.
 No timber.
 Undergrowth, sagebrush, and black brush.
 Fair grass.

East, on a true line, bet. secs. 1 and 36.
 Over level land, through scattering undergrowth.
 5.00 Asc. 30 ft.
 9.58 Low ridge, brs. N. and S. Desc. 25 ft.
 14.60 Thence over level land.

Completion of the Survey of the
North Boundary of T. 29 N., R. 15 W.

Chains
40.00 Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground, with marked (X) stone, for $\frac{1}{4}$ Sec. cor.; and raise a mound of stone around post, with brass cap marked

$\frac{1}{4}$ $\frac{S\ 36}{S\ 1}$
1921

80.00 The cor. of Ts. 29 and 30 N., Rs. 14 and 15 W.
Land, level and rolling.
Soil, 1st rate.
Timber, none.
Undergrowth, black brush and sagebrush.
Fair grazing.

Boundaries of that Part of T. 29 N., R. 15 W.,
Surveyed under this Group.

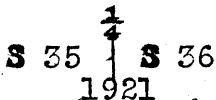
Latitudes, departures and closing errors.

Line designated	True bearing	Dist. chs.	Latitudes.		Departures.	
			N. chs.	S. chs.	E. chs.	W. chs.
South Boundary	West.	302.23				302.23
West Boundary (Hualpai Indian Res. Bdy.)	N.0° 28' E.	1.22	1.22		.01	
	North N.0° 5' E.	399.91 79.41	399.91 79.41		.12	
North Boundary	East	300.88			300.88	
East Boundary	South	480.12		480.12		
Convergency					.33	
Totals			480.54	480.12	301.34	302.23
			480.12			301.34
	Error in latitude		.42			
	Error in departure				.89	

Completion of the Survey of the Subdivision of
T. 29 N., R. 15 W.

Chains From the standard cor. of secs. 35 and 36, on the S. bdy. of Tp. - 7th Standard Parallel North - hereinbefore described.
N. 0° 1' W., bet. secs. 35 and 36.
Over-rolling land, through scattering timber and undergrowth. Desc. 130 ft.

11.50 Leave timber, brs. N. 70° E., and S. 70° W.
14.80 Ravine, 8 lks. wide, course N. 70° E. Asc. 145 ft.
22.00 Enter timber, brs. N. 70° E., and S. 70° W.
38.00 Ridge, brs. E. and W. Desc.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap



From which

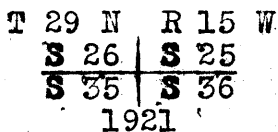
A juniper, 8 ins. diam., brs. N. 57° E., 188 lks. dist., marked $\frac{1}{4}$ S 36 B T.

A juniper, 10 ins. diam., brs. N. 55 $\frac{1}{2}$ ° W., 19 lks. dist., marked $\frac{1}{4}$ S 35 B T.

Continue descent, 30 ft.

50.00 Center of draw, 3 chs. wide, course E. Asc. 45 ft.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 14 ins. in the ground, in a mound of stone, for cor. of secs. 25, 26, 35 and 36, marked on brass cap



From which

A juniper, 14 ins. diam., brs. N. 62 $\frac{1}{2}$ ° E., 229 lks. dist., marked T 29 N R 15 W S 25 B T.

A juniper, 8 ins. diam., brs. S. 58 $\frac{1}{2}$ ° E., 140 lks. dist., marked T 29 N R 15 W S 36 B T.

A juniper, 8 ins. diam., brs. S. 50° W., 322 lks. dist., marked T 29 N R 15 W S 35 B T.

A juniper, 16 ins. diam., brs. N. 70° W., 229 lks. dist., marked T 29 N R 15 W S 26 B T.

Land, rolling.

Soil, 4th rate.

Timber, juniper and pinyon.

Undergrowth, scrub oak and sagebrush.

Fair grazing.

East, on a random line, bet. secs. 25 and 36.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.86 Fall 2 lks. S. of the cor. of secs. 25, 30, 31 and 36, on the E. bdy. of Tp., hereinbefore described

Thence

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

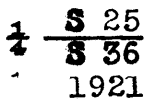
Over level land, through scattering timber and undergrowth.

10.00 Asc. 50 ft.

20.00 Thence over level land.

30.00 Center of draw, 2 chs. wide, course SE. Asc. 30 ft.

39.93 Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap



From which

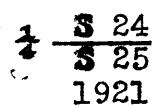
Completion of the Survey of the Subdivision
of T. 29 N., R. 15 W.

Chains

- A juniper, 10 ins. diam., brs. N. $3\frac{1}{4}^{\circ}$ W., 76 lks.
dist., marked $\frac{1}{4}$ S 25 B T.
- A juniper, 8 ins. diam., brs. S. 42° E., 76 lks.
dist., marked $\frac{1}{4}$ S 36 B T.
- Thence, over level land.
- 69.85 Asc. 65 ft.
- 79.86 The cor. of secs. 25, 26, 35 and 36.
Land, level and rolling.
Soil, 3rd rate.
Timber, juniper and pinyon.
Undergrowth, black brush, scrub oak, sagebrush and cactus.
Fair grazing.
-
- N. 0° 1' W., bet. secs. 25 and 26.
Over gently rolling land, through scattering timber and
undergrowth.
- 14.50 Desc. 115 ft.
- 38.40 Thence over level land, brs. NW. and SE.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the
ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked
on brass cap
- $\frac{1}{4}$
 S 26 | S 25
 1921
- From which
- A juniper, 16 ins. diam., brs. S. $70\frac{1}{2}^{\circ}$ E., 245
lks. dist., marked $\frac{1}{4}$ S 25 B T.
- A juniper, 8 ins. diam., brs. N. $88\frac{1}{2}^{\circ}$ W., 201
lks. dist., marked $\frac{1}{4}$ S 26 B T.
- 44.00 Old road, brs. NE. to storage tanks and SW. to Clay Springs
- 44.50 Ravine, course NE.
- 48.00 Leave level land, brs. NE. and SW. Thence over gently
rolling land.
- 49.40 Six wire fence brs. NW. and SE.
- 53.00 Five wire fence, brs. NE. and SW. Reservoir brs. E. 2.00
chs. dist.
- 72.00 Leave gently rolling land, brs. E. and W. Thence over
level land.
- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in
the ground, for cor. of secs. 23, 24, 25 and 26,
marked on brass cap
- T 29 N R 15 W
 S 23 | S 24
 S 26 | S 25
 1921
- From which
- A juniper, 14 ins. diam., brs. S. $49\frac{1}{4}^{\circ}$ E., 297
lks. dist., marked T 29 N R 15 W S 25 B T.
- A juniper, 14 ins. diam., brs. S. $43\frac{3}{4}^{\circ}$ W., 579
lks. dist., marked T 29 N R 15 W S 26 B T.
- A juniper, 10 ins. diam., brs. N. $46\frac{1}{4}^{\circ}$ W., 397
lks. dist., marked T 29 N R 15 W S 23 B T.
- No other trees within limits. Raise a mound of stone,
2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- Land, level and gently rolling.
Soil, 2nd and 4th rates.
Timber, juniper and pinyon.
Undergrowth, sagebrush, black brush, cat claw and cactus.
Fair grazing.
-
- N. 89° 59' E., on a random line, bet. secs. 24 and 25.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.94 Fall 5 lks. N. of the cor. of secs. 19, 24, 25 and 30,

Completion of the Survey of the Subdivision of T. 29 N., R. 15 W.

Chains on the E. bdy. of Tp., hereinbefore described.
 Thence N. 89° 59' W., on a true line, bet. secs. 24 and 25.
 Over rolling land, through scattering timber and undergrowth.
 0.80 Wash, 8 lks. wide, course NE. Asc. 45 ft.
 9.00 Low spur, slopes NE. Desc. 35 ft.
 17.50 Ravine, 10 lks. wide, course NE. Asc. 130 ft.
 33.80 Spur, slopes NE. Desc.
 39.97 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

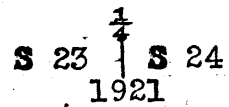


From which
 A juniper, 12 ins. diam., brs. N. 28 $\frac{1}{2}$ ° E., 152 lks. dist., marked $\frac{1}{4}$ S 24 B T.
 A juniper, 8 ins. diam., brs. S. 1 $\frac{3}{4}$ ° W., 73 lks. dist., marked $\frac{1}{4}$ S 25 B T.

Continue descent, 45 ft.
 59.00 Ravine, 6 lks. wide, course NE. Asc. 60 ft.
 60.60 Spur, slopes N. 30° E. Desc. 85 ft.
 63.30 Three wire fence, brs. N. 30° E. and S. 30° W.
 70.70 Four wire fence, brs. N. 20° E and S 20° W.
 76.50 Thence over level land, brs: NE. and SW.
 79.65 Ravine, course NE.
 79.94 The cor. of secs. 23, 24, 25 and 26.
 Land, rolling and level.
 Soil, 3rd rate.
 Timber, juniper and pinyon.
 Undergrowth, cat claw, scrub oak, black brush and cactus.
 Fair grazing.

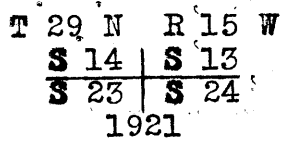
N. 0° 1' W., bet. secs. 23 and 24.
 Over level land, through scattering timber and undergrowth.

7.00 Leave level land, brs. NE. and SW. Asc. 140 ft.
 10.00 Rim rock, 45 ft. high, brs. NE. and SW. Continue ascent.
 16.50 Spur, slopes E. Desc. 85 ft.
 33.70 Ravine, 16 lks. wide, course E. Thence along E. slope.
 39.00 Ravine, course SE. Asc.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap



From which
 A juniper, 10 ins. diam., brs. N. 44° E., 36 lks. dist., marked $\frac{1}{4}$ S 24 B T.
 A juniper, 14 ins. diam., brs. S. 35° W., 24 lks. dist., marked $\frac{1}{4}$ S 23 B T.

Asc. 75 ft.
 46.50 Spur, slopes W. Desc. 90 ft.
 53.50 Ravine, 10 lks. wide, 20 ft. deep, course NE. Asc. 90 ft.
 67.60 Spur, slopes NE. Desc. 70 ft.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground, in a mound of stone, for cor. of secs. 13, 14, 23 and 24, marked on brass cap



Completion of the Survey of the Subdivision
of T. 29 N., R. 15 W.

Chains From which
 A juniper, 10 ins. diam., brs. N. 72° E., 142 lks.
 dist., marked T 29 N R 15 W S 13 B T.
 A juniper, 14 ins. diam., brs. S. 86 $\frac{1}{2}$ ° E., 98 lks.
 dist., marked T 29 N R 15 W S 24 B T.
 A juniper, 12 ins. diam., brs. S. 58 $\frac{1}{2}$ ° W., 188 lks.
 dist., marked T 29 N R 15 W S 23 B T.
 A juniper, 10 ins. diam., brs. N. 56° W., 76 lks.
 dist., marked T 29 N R 15 W S 14 B T.
 Land, level, rolling and mountainous.
 Soil, 3rd rate.
 Timber, juniper and pinyon.
 Undergrowth, black brush, sagebrush, cactus.
 Fair grazing.

40.00 S. 89° 59' E., on a random line, bet. secs. 13 and 24.
 Set temp. $\frac{1}{4}$ sec. cor.
 79.96 Fall 7 lks. N. of the cor. of secs. 13, 18, 19 and 24,
 on the E. bdy. of Tp., hereinbefore described.
 Thence
 N. 89° 56' W., on a true line, bet. secs. 13 and 24.
 Over rolling and mountainous land, through scattering
 timber and undergrowth. Asc. 30 ft.
 10.00 Spur, slopes NE. Desc. 30 ft.
 15.25 Ravine, 8 lks. wide, 30 ft. deep, course NE. Asc. 30 ft.
 22.00 Spur, slopes NE. Desc. 70 ft.
 29.20 Ravine, 6 lks. wide, 15 ft. deep, course NE. Asc. 30 ft.
 39.98 Set an iron post, 3 ft. long, 1 in. diam., on bed rock,
 with cross (X) at exact cor. point, in a mound of
 stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$ S 13
 S 24
 1921

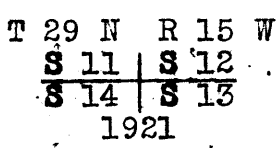
From which
 A juniper, 10 ins. diam., brs. S. 35 $\frac{1}{2}$ ° E., 105
 lks. dist., marked $\frac{1}{4}$ S 24 B T.
 No other trees within limits.
 Desc. 130 ft.
 51.80 Wash, 12 lks. wide, course NE. Asc. 200 ft.
 68.00 Ridge, brs. NE. and SW. Desc. 40 ft.
 79.96 The cor. of secs. 13, 14, 23 and 24.
 Land, rolling and mountainous.
 Soil, rocky, 4th rate.
 Timber, juniper and pinyon.
 Undergrowth, sagebrush, black brush and cactus.
 Fair grazing.

N. 0° 1' W., bet. secs. 13 and 14.
 Over rolling land, through scattering timber and under-
 growth. Desc.
 3.50 Ravine, 6 lks. wide, course NE. Asc. 65 ft.
 10.50 Ridge, brs. N. 80° E., and S. 70° W. Desc. 150 ft.
 34.90 Wash, 10 lks. wide, course SE. Asc.
 35.70 Road, to Indian house, brs. SE. and W.
 36.70 Three wire fence, brs. E. and W.
 40.00 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

S 14 $\frac{1}{4}$ S 13
 1921

Completion of the Survey of the Subdivision
of T. 29 N., R. 15 W.

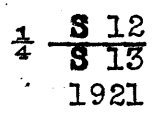
Chains From which
 A juniper, 16 ins. diam., brs. S. 81° E., 39 lks.
 dist., marked $\frac{1}{4}$ S 13 B T.
 A juniper, 10 ins. diam., brs. S. 28° W., 55 lks.
 dist., marked $\frac{1}{4}$ S 14 B T.
 Asc. 135 ft.
 45.95 Indian house, brs. S. 69° 45' W., 29.80 chs. dist.
 50.00 Spur, slopes E. Desc. 120 ft.
 72.10 Wash, 12 lks. wide, course NE. Asc. 20 ft.
 73.00 Three wire fence, brs. NE. and SW.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., on bed rock,
 with cross (X) at exact cor. point, in a mound of
 stone, for cor. of secs. 11, 12, 13 and 14, marked on
 brass cap



From which
 A juniper, 14 ins. diam., brs. N. 76 $\frac{1}{2}$ ° E., 275
 lks. dist., marked T 29 N R 15 W S 12 B T.
 A juniper, 10 ins. diam., brs. S. 68° E., 138
 lks. dist., marked T 29 N R 15 W S 13 B T.
 A juniper, 10 ins. diam., brs. S. 7° W., 62 lks.
 dist., marked T 29 N R 15 W S 14 B T.

No other trees within limits.
 Land, rolling.
 Soil, 3rd rate.
 Timber, juniper and pinyon.
 Undergrowth, sagebrush, black brush and cactus.
 Fair grazing.

S. 89° 56' E., on a random line, bet. secs. 12 and 13.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.00 Fall 19 lks. S. of the cor. of secs. 7, 12, 13 and 18, on
 the E. bdy. of Tp., hereinbefore described.
 Thence
 S. 89° 56' W., on a true line, bet. secs. 12 and 13.
 Over rolling land, through scattering timber and under-
 growth. Desc. 50 ft.
 7.00 Ravine, course N. Asc. 50 ft.
 21.00 Spur, slopes N. 30° E. Desc. 70 ft.
 38.75 Old road, brs. N. to storage tanks and SW. to Clay Springs.
 also draw, course N.
 40.00 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



From which
 A juniper, 8 ins. diam., brs. N. 29° W., 228 lks.
 dist., marked $\frac{1}{4}$ S 12 B T.
 A juniper, 8 ins. diam., brs. S. 12° E., 416 lks.
 dist., marked $\frac{1}{4}$ S 13 B T.

Asc. 110 ft.
 60.00 Desc.
 76.50 Ravine, 6 lks. wide, 20 ft. deep, course NE. Asc.
 80.00 The cor. of secs. 11, 12, 13 and 14.
 Land, rolling.
 Soil, 3rd rate.
 Timber, juniper and pinyon.
 Undergrowth, black brush, sagebrush, scrub oak and cactus.
 Fair grazing:

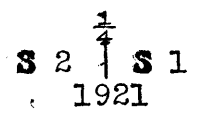
Completion of the Survey of the Subdivision
of T. 29. N., R. 15. W.

Chains	N. 0° 1' W., bet. secs. 11 and 12. Over-rolling land, through scattering timber and under- growth. Desc. 50 ft.
10.00	Ravine, 10 lks. wide, course SE. Asc. 50 ft.
22.80	Ridge, brs. E. and W. Desc. 25 ft.
39.28	Road, brs. NW. to storage tanks and SE. to Clay Springs.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground, in a mound of stone, with marked (X) stone, for $\frac{1}{4}$ sec. cor.; marked on brass cap
	$\begin{array}{c} \frac{1}{4} \\ \text{S 11} \quad \quad \text{S 12} \\ \hline 1921 \end{array}$
	From which A juniper, 8 ins. diam., brs. N. 33 $\frac{1}{4}$ ° W., 210 lks. dist., marked $\frac{1}{4}$ S 11 B T.
	No other trees within limits. Continue descent, 130 ft.
65.00	Leave rolling land, brs. NW. and SE. Thence over level land.
70.00	Draw, course NE.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 16 ins. in the ground, in a mound of stone, with marked (X) stone, for cor. of secs. 1, 2, 11 and 12, marked on brass cap
	$\begin{array}{c} \text{T 29 N R 15 W} \\ \hline \text{S 2} \quad \quad \text{S 1} \\ \hline \text{S 11} \quad \quad \text{S 12} \\ \hline 1921 \end{array}$
	From which A juniper, 10 ins. diam., brs. S. 2 $\frac{1}{4}$ ° E., 202 lks. dist., marked T 29 N R 15 W S 12 B T. A juniper, 10 ins. diam., brs. S. 26 $\frac{1}{4}$ ° W., 222 lks. dist., marked T 29 N R 15 W S 11 B T.
	No other trees within limits. Land, rolling and level. Soil, 4th rate. Timber, juniper and pinyon. Undergrowth, scrub oak, sagebrush, cat claw and cactus. Fair grazing.
	N. 89° 56' E., on a random line, bet. secs. 1 and 12.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.84	Fall 7 lks. S. of the cor. of secs. 1, 6, 7 and 12, on the E. bdy. of Tp., hereinbefore described.
	Thence S. 89° 53' W., on a true line, bet. secs. 1 and 12. Over rolling and mountainous land, through scattering timber and undergrowth. Asc. 40 ft.
5.00	Desc. 175 ft.
39.92	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground, with marked (X) stone, for $\frac{1}{4}$ sec. cor.; and raise a mound of stone around post, with brass cap marked
	$\begin{array}{c} \frac{1}{4} \text{ S 1} \\ \hline \frac{1}{4} \text{ S 12} \\ \hline 1921 \end{array}$
	Desc.
41.35	Wash, 10 lks. wide, course NE. Asc. 130 ft.
47.15	Desc. 40 ft.
50.85	Wash, 10 lks. wide, 20 ft. deep, course N. Asc. 55 ft.
64.85	Spur, slopes NE. Desc. 135 ft.
72.35	Wash, 12 lks. wide, course NE. Asc.

Completion of the Survey of the Subdivision
of T. 29, N., R. 15 W. BOOK 3565

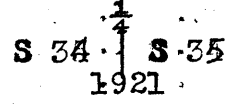
Chains
79.84 The cor. of secs. 1, 2, 11 and 12.
Land, rolling and mountainous.
Soil, rocky, 4th rate.
Timber, juniper and pinyon.
Undergrowth, sagebrush, black brush, cat claw and cactus.
Fair grazing.

N. 0° 1' W., on a random line, bet. secs. 1 and 2.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.28 Fall 11 lks. E. of the cor. of secs. 1, 2, 35 and 36, on
the N. bdy. of Tp., hereinbefore received.
Thence
S. 0° 6' E., on a true line, bet. secs. 1 and 2.
Over level land, through scattering undergrowth.
35.30 Desc. 25 ft.
40.28 Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the
ground, with marked (X) stone, for $\frac{1}{4}$ sec. cor.; and raise
a mound of stone around post, with brass cap marked



Continue descent, 190 ft.
49.80 Center of canyon, 1 ch. wide, course E. Asc. 190 ft.
57.30 Spur, slopes E. Desc. 150 ft.
75.80 Gulch, course E. Asc.
76.80 Spur, slopes E. Desc.
80.28 The cor. of secs. 1, 2, 11 and 12.
Land, rolling, level and mountainous.
Soil, rocky, 2nd rate.
Timber, none.
Undergrowth, black brush, cat claw, sagebrush and cactus.
Fair grazing.

From the standard cor. of secs. 34 and 35, on the S. bdy.
of the Tp., hereinbefore described.
N. 0° 1' W., bet. secs. 34 and 35.
Over rolling land, through heavy timber and scattering
undergrowth. Asc. 130 ft.
11.14 Spur, slopes SW. Desc. 20 ft.
18.83 Wash, 10 lks. wide, 2 ft. deep, course SW. Asc. 25 ft.
26.11 Spur, slopes SE. Thence over nearly level top.
33.90 Desc. 15 ft.
35.40 Draw, course SE. Asc.
40.00 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



From which
A juniper, 12 ins. diam., brs. S. 85° E., 50 lks.
dist., marked $\frac{1}{4}$ S 35 B T.
A pinyon, 10 ins. diam., brs. S. 61 $\frac{1}{2}$ ° W., 118 lks.
dist., marked $\frac{1}{4}$ S 34 B T.
Continue ascent, 15 ft.
47.67 Spur, slopes NE. Desc. 150 ft.

Completion of the Survey of the Subdivision
of T. 29 N., R. 15 W.

Chains
64.00 Wash, 30 lks. wide, 3 ft. deep, course NE. Asc. 50 ft.
70.16 Spur, slopes E. Desc. 45 ft.
78.30 Wash, course E. Asc.
80.00 Set an iron post, 3 ft. long, 2 ins. diam., 4 ins. in the ground, in a mound of stone, for cor. of secs. 26, 27, 34 and 35, marked on brass cap

T 29 N R 15 W	
S 27	S 26
S 34	S 35
1921	

From which

A pinyon, 12 ins. diam., brs. N. $21\frac{1}{2}^{\circ}$ E., 145 lks. dist., marked T 29 N R 15 W S 26 B T.
A juniper, 14 ins. diam., brs. S. 89° E., 103 lks. dist., marked T 29 N R 15 W S 35 B T.
A juniper, 14 ins. diam., brs. S. $59\frac{3}{4}^{\circ}$ W., 38 lks. dist., marked T 29 N R 15 W S 34 B T.
A pinyon, 12 ins. diam., brs. N. 29° W., 162 lks. dist., marked T 29 N R 15 W S 27 B T.

Land, rolling.

Soil, 2nd rate.

Timber, pinyon and juniper.

Undergrowth, black brush, sagebrush, cat claw and cactus.

Fair grazing.

40.00 East, on a random line, bet. secs. 26 and 35.
Set temp. $\frac{1}{4}$ sec. cor.
79.96 Intersect 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 undergrowth. Asc.
5.00 Ridge, brs. N. 70° E. and S. 70° W. Desc. 60 ft.
20.00 Asc. 45 ft.
24.90 Road, brs. NE. to storage tanks and S. 20° W., to Clay Springs.
30.00 Thence over level land.
39.98 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$ S 26
$\frac{1}{4}$ S 35
1921

From which

A juniper, 8 ins. diam., brs. N. 44° W., 88 lks. dist., marked $\frac{1}{4}$ S 26 B T.
A juniper, 8 ins. diam., brs. S. $56\frac{1}{4}^{\circ}$ E., 117 lks. dist., marked $\frac{1}{4}$ S 35 B T.
51.60 Leave timber, brs. NE. and SW.
59.50 Enter timber, brs. NE. and SW.
68.20 Leave timber, brs. NW. and SE.
75.20 Enter timber, brs. NE. and SW.
79.96 The cor. of secs. 26, 27, 34 and 35.

Land, rolling and level.

Soil, 3rd rate.

Timber, juniper and pinyon.

Undergrowth, black brush, sagebrush, cat claw and cactus.

Fair grazing.

N. 0° 1' W., bet. secs. 26 and 27.

Over rolling land, through scattering undergrowth and heavy timber.

Completion of the Survey of the Subdivision
of T. 29 N., R. 15 W.

Chains Asc. 35 ft.
 4.50 Spur, slopes E. Desc.
 10.00 Wash, 12 lks. wide, 2 ft. deep, course NE. Asc. 95 ft.
 26.67 Ridge, brs. E. and W. Desc. 35 ft.
 37.03 Wash, 10 lks. wide, 3 ft. deep, course N. 80° E. Asc.
 40.00 Spur, slopes N. 65° E. Set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the ground, in a mound of stone, for 1/4 sec. cor., marked on brass cap

$$\begin{array}{c} \frac{1}{4} \\ \text{S } 27 \text{ } \frac{1}{4} \text{ } \text{S } 26 \\ 1921 \end{array}$$

From which:
 A pinyon, 11 ins. diam., brs. N. 37 1/2° E., 49 lks. dist., marked 1/4 S 26 B T.
 A pinyon, 13 ins. diam., brs. N. 8 1/2° W., 47 lks. dist., marked 1/4 S 27 B T.

Desc. 75 ft.
 49.18 Wash, course N. 70° E. Asc. 80 ft.
 60.33 Spur, slopes NE. Desc. 100 ft.
 70.41 Thence over level land.
 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. 22, 23, 26 and 27, marked on brass cap.

T 29 N	R 15 W
S 22	S 23
S 27	S 26

1921

From which
 A pine, 10 ins. diam., brs. N. 28 1/2° E., 50 lks. dist., marked T 29 N R 15 W S 23 B T.
 A pine, 6 ins. diam., brs. S. 34 1/2° E., 17 lks. dist., marked T 29 N R 15 W S 26 B T.
 A pinyon, 10 ins. diam., brs. S. 63° W., 63 lks. dist., marked T 29 N R 15 W S 27 B T.
 A pinyon, 8 ins. diam., brs. N. 10° W., 76 lks. dist., marked T 29 N R 15 W S 22 B T.

Land, rolling.
 Soil, 2nd and 3rd rate.
 Timber, cedar and pinyon.
 Undergrowth, black brush, sagebrush, cat claw and cactus.
 Fair grazing.

East, on a random line, bet. secs. 23 and 26.
 40.00 Set temp. 1/4 sec. cor.
 79.86 Intersect N. and S. line, 9 lks. N. of the cor. of secs. 23, 24, 25 and 26.
 Thence
 N. 89° 56' W., on a true line, bet. secs. 23 and 26.
 Over rolling land, through heavy timber and scattering undergrowth. Asc. 130 ft.
 19.38 Thence along S. slope.
 27.10 Wash, 15 lks. wide, 2 ft. deep, course SE. Asc. 80 ft.
 32.61 Spur, slopes SE. Desc. 30 ft.
 39.00 Wash, course SE. Asc.
 39.93 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground, in a mound of stone, for 1/4 sec. cor., marked on brass cap

$$\frac{1}{4} \frac{\text{S } 23}{\text{S } 26}$$

1921

From which
 A juniper, 12 ins. diam., brs. N. 46 1/2° W.,

Completion of the Survey of the Subdivision
of T. 29 N., R. 15 W.

Chains	57 lks. dist., marked $\frac{1}{4}$ S 23 B. T. A juniper, 10 ins. diam., brs. S. $47\frac{1}{4}^{\circ}$ E., 65 lks. dist., marked $\frac{1}{4}$ S 26 B T.
	Continue ascent, 120 ft.
52.23	Thence along N. slope.
56.59	Desc. NW, slope, 115 ft.
67.79	Draw, course N. Asc. 55 ft.
75.60	Spur, slopes NE. Desc. 10 ft.
79.86	The cor. of secs. 22, 23, 26 and 27.
	Land, rolling. Soil, 2nd and 3rd rates. Timber, juniper and pinyon. Undergrowth, black brush, sagebrush, cat claw and cactus. Fair grazing.
	N. 0° 1' W., bet. secs. 22 and 23. Over-rolling land, through heavy timber and scattering undergrowth. Asc. 60 ft.
10.43	Spur, slopes NE. Desc. 105 ft.
23.40	Draw, course N. 70° E. Asc. 135 ft.
36.60	Spur, slopes N. 70° E. Desc.
40.00	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 22 S 23 1921
	From which
	A juniper, 16 ins. diam., brs. S. 3° E., 93 lks. dist., marked $\frac{1}{4}$ S 23 B T.
	A juniper, 14 ins. diam., brs. S. $66\frac{1}{2}^{\circ}$ W., 227 lks. dist., marked $\frac{1}{4}$ S 22 B T.
	Continue descent, 100 ft.
56.49	Wash, course NW. Thence along W. slope.
62.70	Desc. 45 ft.
67.70	Asc. 40 ft.
80.00	Spur, slopes E. Set an iron post, 3 ft. long, 2 ins. diam. 5 ins. in the ground, in a mound of stone, with mark- ed (X) stone, for cor. of secs. 14, 15, 22 and 23, marked on brass cap
	T 29 N R 15 W S 15 S 14 S 22 S 23 1921
	From which
	A juniper, 14 ins. diam., brs. S. $46\frac{1}{2}^{\circ}$ E., 73 lks. dist., marked T 29 N R 15 W S 23 B T.
	A juniper, 12 ins. diam., brs. S. $32\frac{3}{4}^{\circ}$ W., 48 lks. dist., marked T. 29 N R 15 W S 22 B T.
	A juniper, 16 ins. diam., brs. N. 32° W., 211 lks. dist., marked T. 29 N R 15 W S 15 B T.
	No other trees within limits.
	From this cor., the SW. cor. of Indian house, brs. N. $55\frac{3}{4}^{\circ}$ E.
	Land, rolling. Soil, 2nd and 4th rates. Timber, juniper and pinyon. Undergrowth, scrub oak, black brush, sagebrush and cactus. Fair grazing.
40.00	S. 89° 56' E., on a random line, bet. secs. 14 and 23. Set temp. $\frac{1}{4}$ sec. cor.

Completion of the Survey of the Subdivision
of T. 29 N., R. 15 W.

BOOK 3565

Chains

79.90 Intersect N. and S. line, 9 lks. N. of the cor. of secs. 13, 14, 23 and 24.
 Thence
 N. 89° 52' W., on a true line, bet. secs. 14 and 23.
 Over rolling land, through scattering timber and undergrowth. Desc.
 1.90 Wash, 20 lks. wide, 1 ft. deep, course N. 30° E. Asc. 25 ft.
 6.80 Spur, slopes N. Desc. 20 ft.
 19.40 Wash, 10 lks. wide, 2 ft. deep, course NE. Asc. 65 ft.
 33.85 Ridge, brs. N. and S. Desc. 40 ft.
 39.95 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

$\frac{1}{4}$ $\frac{S}{S}$ $\frac{14}{23}$
1921

From which
 A juniper, 18 ins. diam., brs. N. 48 $\frac{3}{4}$ ° W., 54 lks. dist., marked $\frac{1}{4}$ S 14 B T.
 A juniper, 18 ins. diam., brs. S. 78 $\frac{1}{4}$ ° W., 30 lks. dist., marked $\frac{1}{4}$ S 23 B T.

Continue descent.
 40.45 Wash, course NW. Asc.
 44.55 Spur, slopes N. Desc. 30 ft.
 48.15 Wash, course N. Asc. 70 ft.
 55.45 Spur, slopes N. 10° E. Desc. 85 ft.
 67.15 Enter level land, brs. N. and S.
 73.32 Wash, course NE.
 74.32 Old road, brs. NE. to storage tanks and SW.
 75.40 Leave level land, brs. N. and S. Asc. 40 ft.
 79.90 The cor. of secs. 14, 15, 22 and 23.
 Land, rolling and level.
 Soil, 2nd and 3rd rates.
 Timber, juniper and pinyon.
 Undergrowth, black brush, scrub oak, cat claw and cactus.
 Fair grazing.

N. 0° 1' W., bet. secs. 14 and 15.
 Over rolling land, through scattering timber and undergrowth. Desc.
 2.50 Wash, 10 lks. wide, 2 ft. deep, course E. Asc. 40 ft.
 9.05 Spur, slopes E. Desc. 65 ft.
 15.49 Draw, course E. Asc. 90 ft.
 26.07 Ridge, brs. E. and W. Desc.
 30.07 Draw, course SE. Asc. 20 ft.
 35.15 Spur, slopes N. 85° E. Desc. 70 ft.
 39.90 Draw, course NE. Asc.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
S 15 | S 14
1921

From which
 A juniper, 16 ins. diam., brs. N. 76° E., 61 lks. dist., marked $\frac{1}{4}$ S 14 B T.
 A juniper, 12 ins. diam., brs. N. 70° W., 138 lks. dist., marked $\frac{1}{4}$ S 15 B T.

Continue ascent, 95 ft.
 49.79 Spur, slopes E. Desc.
 55.34 Draw, course SE. Asc. 185 ft.
 69.42 Spur, slopes E. Desc. 60 ft.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., on bed rock,

Completion of the Survey of the Subdivision
of T. 29 N., R. 15 W.

Chains

With cross (X) at exact cor. point, for cor. of secs.
10, 11, 14 and 15; and raise a mound of stone around
post, with brass cap marked

T 29 N R 15 W

S 10 | S 11

S 15 | S 14

1921

From which

A juniper, 10 ins. diam., brs. N. $68\frac{1}{2}^{\circ}$ E., 55
lks. dist., marked T 29 N R 15 W S 11 B T.

A juniper, 12 ins. diam., brs. S. $22\frac{1}{2}^{\circ}$ E., 44 lks.
dist., marked T 29 N R 15 W S 14 B T.

A juniper, 10 ins. diam., brs. S. 30° W., 25 lks.
dist., marked T 29 N R 15 W S 15 B T.

A juniper, 14 ins. diam., brs. N. 34° W., 43 lks.
dist., marked T 29 N R 15 W S 10 B T.

Land, rolling.

Soil, 2nd and 3rd rates.

Timber, juniper and pinyon.

Undergrowth, scrub oak, cat claw, black brush and cactus
Fair grazing.

40.00 S. $89^{\circ} 52'$ E., on a random line, bet. secs. 11 and 14.
Set temp. $\frac{1}{4}$ sec. cor.

80.02 Intersect the cor. of secs. 11, 12, 13 and 14.

Thence

N. $89^{\circ} 52'$ W., on a true line, bet. secs. 11 and 14.

Over rolling land, through scattering timber and under-
growth. Asc. 40 ft.

15.00 Desc.

27.00 Ravine, course SE. Asc. 40 ft.

40.01 Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the
ground, with marked (X) stone, for $\frac{1}{4}$ sec. cor.; and
raise a mound of stone around post, with brass cap
marked

$$\frac{1}{4} \frac{S 11}{S 14}$$

1921

Desc.

42.50 Draw, course SE. Asc. 135 ft.

64.00 Ridge, brs. NE. and SW. Desc. 55 ft.

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

Land, rolling.

Soil, rocky, 4th rate.

Timber, juniper and pinyon.

Undergrowth, black brush, scrub oak, cat claw and cactus.
Fair grazing.

N. $0^{\circ} 1'$ W., bet. secs. 10 and 11.

Over rolling land, through scattering timber and under-
growth. Desc.

1.40 Draw, course NE. Asc. 15 ft.

8.50 Spur, slopes E. Desc. 180 ft.

23.55 Wash, 10 lks. wide, 1 ft. deep, course N. 80° E. Asc. 25
ft.

28.50 Thence along W. slope.

36.50 Spur, slopes N. 10° E. Desc.

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

$$S 10 \uparrow S 11$$

1921

Completion of the Survey of the Subdivision
of T. 29 N., R. 15 W.

Chains

From which

A juniper, 10 ins. diam., brs. S. 32 $\frac{1}{2}$ ° E., 10
lks. dist., marked $\frac{1}{2}$ S 11 B T.

A juniper, 12 ins. diam., brs. S. 83 $\frac{1}{2}$ ° W., 18 lks.
dist., marked $\frac{1}{2}$ S 10 B T.

Continue descent, 110 ft.

60.64 Wash, 10 lks. wide, 1 ft. deep, course NE. Asc. 15 ft.

64.31 Thence along E. slope.

66.00 Wash, course E. Asc.

69.30 Spur, slopes N. 60° E. Desc.

72.90 Wash, 10 lks. wide; 2 ft. deep, course NE. Asc. 45 ft.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 4 ins. in
the ground, in a mound of stone, for cor. of secs. 2,
3, 10 and 11, marked on brass cap

T. 29 N R. 15 W

S 3 S 3

S 10 S 11

1921

From which

A juniper, 8 ins. diam., brs. N. 83° E., 155 lks.
dist., marked T. 29 N., R 15 W S 2 B T.

A juniper, 8 ins. diam., brs. S. 49 $\frac{1}{2}$ ° E., 106 lks.
dist., marked T 29 N R 15 W S 11 B T.

A juniper, 8 ins. diam., brs. S. 6 $\frac{3}{4}$ ° W., 79 lks.
dist., marked T 29 N R 15 W S 10 B T.

A juniper, 14 ins. diam., brs. N. 26 $\frac{1}{2}$ ° W., 151
lks. dist., marked T 29 N R 15 W S 3 B T.

Land, rolling.

Soil, rocky, 4th rate.

Timber, juniper and pinyon.

Undergrowth, black brush, scrub oak, cat claw and cactus.

Fair grazing.

S. 89° 52' E., on a random line, bet. secs. 2 and 11.

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

80.00 Intersect the cor. of secs. 1, 2, 11 and 12.

Thence

N. 89° 52' W., on a true line, bet. secs. 2 and 11.

Over rolling land, through scattering timber and under-
growth. Asc. 120 ft.

10.50 Spur, slopes N. 70° E. Desc. 40 ft.

16.00 Ravine, 16 lks. wide, 30 ft. deep, course NE. Asc. 65 ft.

36.00 Ridge, brs. N. 30° E. and S. Desc. 25 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

$\frac{1}{4}$ S 2
S 11

1921

From which

A juniper, 6 ins. diam., brs. N. 31° E., 150 lks.
dist., marked $\frac{1}{4}$ S 2 B T.

A juniper, 8 ins. diam., brs. S. 8° E., 34 lks.
dist., marked $\frac{1}{4}$ S 11 B T.

42.70 Wash, 8 lks. wide, course N. Road, brs. N. to storage
tanks and S. to Clay Springs. Asc. 50 ft.

49.80 Spur, slopes NE. Desc. 45 ft.

51.00 Same road, brs. NE. to Clay Springs and SW. to Storage
tanks.

58.00 Wash, 10 lks. wide; course NE. Asc. 120 ft.

80.00 The cor. of secs. 2, 3, 10 and 11:

Land, rolling.

Soil, 3rd rate.

Timber, juniper and pinyon.

Completion of the Survey of the Subdivision
of T. 29 N., R. 15 W.

Chains Undergrowth, black brush, scrub oak, cat claw and cactus.
Fair grazing.

40.00 N. $0^{\circ} 6'$ W., on a random line, bet. secs. 2 and 3.
Set temp. $\frac{1}{4}$ sec. cor.
79.97 Fall 19 lks. E. of the cor. of secs. 2, 3, 34 and 35, on
the N. bdy. of Tp., hereinbefore described.
Thence.
S. $0^{\circ} 14'$ E., on a true line, bet. secs. 2 and 3.
Over level land, through heavy timber and scattering
undergrowth.
26.20 Wash, 10 lks. wide, course NE.
29.95 Leave level land, brs. E. and W. Asc. 100 ft.
37.25 Spur, slopes NE. Desc. 15 ft.
39.97 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the
ground, with marked (X) stone, for $\frac{1}{4}$ sec. cor.; and
raise a mound of stone around post, with brass cap
marked

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

Continue descent, 50 ft.
56.35 Fence, brs. NE. and SW.
59.45 Wash, 2 lks. wide, course N. 30° E. Asc. 60 ft.
66.40 Spur, slopes E. Desc. 50 ft.
75.60 Wash, 20 lks. wide, course NE. Asc.
78.75 Spur, slopes NE. Desc.
79.97 The cor. of secs. 2, 3, 10 and 11.
Land, rolling and level.
Soil, 2nd and 3rd rates.
Timber, juniper and pinyon.
Undergrowth, black brush, scrub oak, cat claw and cactus
Fair grazing.

From the standard cor. of secs. 33 and 34, on the S. bdy.
of Tp., hereinbefore described.
N. $0^{\circ} 2'$ W., bet. secs. 33 and 34.
Over rolling land, through heavy timber and scattering
undergrowth. Desc. 60 ft.
10.46 Foot of descent, brs. N. 45° E., and S. 45° W. Thence
over level land.
24.50 Wash, 10 lks. wide, course N. 45° E. Asc. 130 ft.
40.00 Ridge, brs. N. 80° E. and W. 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 33 | S 34
 1921

From which
A juniper, 6 ins. diam., brs. S. $4\frac{1}{2}^{\circ}$ E., 29 lks.
dist., marked $\frac{1}{4}$ S 34 B T.
A pinyon, 8 ins. diam., brs. S. $76\frac{1}{2}^{\circ}$ W., 62 lks.
dist., marked $\frac{1}{4}$ S 33 B T.
Desc. 45 ft.
46.36 Thence over level land.
60.00 Draw, 10 lks. wide, course NE. Asc. 10 ft.
66.05 Spur, slopes N, 50° E. Thence over level land.
80.00 Set an iron post, 3 ft. long, 2 ins. diam., 16 ins. in the

Completion of the Survey of the Subdivision
of T. 29 N., R. 15 W.

Chains ground, in a mound of stone, for cor. of secs. 27, 28, 33 and 34, marked on brass cap

T 29 N R 15 W
 $\frac{1}{4}$ S 28 | $\frac{1}{4}$ S 27
 $\frac{1}{4}$ S 33 | $\frac{1}{4}$ S 34
 1921

From which
 A juniper, 20 ins. diam., brs. N. 58° E., 583 lks. dist., marked T 29 N R 15 W $\frac{1}{4}$ S 27 B T.
 A juniper, 24 ins. diam., brs. S. 54° E., 168 lks. dist., marked T 29 N R 15 W $\frac{1}{4}$ S 34 B T.
 A juniper, 24 ins. diam., brs. S. 83 $\frac{1}{2}$ ° W., 144 lks. dist., marked T 29 N R 15 W $\frac{1}{4}$ S 33 B T.
 A juniper, 28 ins. diam., brs. N. 2 $\frac{1}{4}$ ° W., 569 lks. dist., marked T 29 N R 15 W $\frac{1}{4}$ S 28 B T.

Land, level and rolling.
 Soil, 3rd rate.
 Timber, juniper and pinyon.
 Undergrowth, black brush, scrub oak, cat claw and cactus.
 Fair grazing.

East, on a random line, bet. secs. 27 and 34.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.96 Intersect the cor. of secs. 26, 27, 34 and 35.
 Thence
 West, on a true line, bet. secs. 27 and 34.
 Over level land, through heavy timber and scattering undergrowth.
 8.09 Wash, 15 lks. wide, 4 ft. deep, course SE.
 19.10 Asc. 80 ft.
 29.60 Thence, over level land.
 39.98 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

$\frac{1}{4}$ S 27
 $\frac{1}{4}$ S 34
 1921

From which
 A pinyon, 14 ins. diam., brs. N. 29 $\frac{1}{4}$ ° W., 12 lks. dist., marked $\frac{1}{4}$ S 27 B T.
 A pinyon, 10 ins. diam., brs. S. 69 $\frac{1}{2}$ ° E., 24 lks. dist., marked $\frac{1}{4}$ S 34 B T.

49.80 Wash, 6 lks. wide, 1 ft. deep, course N. 85° E.
 72.90 Wash, 10 lks. wide, 1 ft. deep, course S. 45° E.
 79.96 The cor. of secs. 27, 28, 33 and 34.
 Land, level and rolling.
 Soil, 2nd rate.
 Timber, pinyon and juniper.
 Undergrowth, scrub oak, black brush, cat claw and cactus
 Fair grazing.

The closing cor. of secs. 28 and 33, on the Hualpai Indian Reservation Boundary is an iron post, 2 ins. diam., set in a mound of stone, properly marked, witnessed by a mound of stone W. of cor., and established 17.69 chs. East of the cor. of secs. 28, 29, 32 and 33.

Thence
 East, on a random line, bet. secs. 28 and 33.
 22.31 (40.00 chs. East of the cor. of secs. 28, 29, 32 and 33.)
 Set temp. $\frac{1}{4}$ sec. cor.

Completion of the Survey of the Subdivision
of T. 29.N., R. 15.W.

Chains

62.23 (79.92 chs. East of the cor. of secs. 28, 29, 32 and 33.)
Intersect N. and S. line, 7 lks. S. of the cor. of secs.
27, 28, 33 and 34.

I return to the original closing cor. of secs. 28 and 33,
on the W. bdy. of the Hualpai Indian Reservation

Thence

East, on a true line, bet. secs. 28 and 33,

Over rolling and mountainous land, through scattering
timber and undergrowth. Desc. 45 ft.

3.85 Wash, 10 lks. wide, course N. Asc. 225 ft.

5.28 Fence brs. N. and S.

22.27 (39.96 chs. East of the cor. of secs. 28, 29, 32 and 33.)

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

$\frac{1}{4}$ $\frac{S}{S}$ $\frac{28}{33}$
1921

From which

A pinyon, 8 ins. diam., brs. N. 28° W., 45 lks.
dist., marked $\frac{1}{4}$ S 28 B T.

A pinyon, 8 ins. diam., brs. S. 54° E., 48 lks.
dist., marked $\frac{1}{4}$ S 33 B T.

Thence N. 89° 54' E. on a true line, continuing measure-
ment. Continue ascent, 130 ft.

31.71 Spur, slopes N. 5° E. Desc. gradual slope, 70 ft.

62.23 (79.92 chs. from the cor. of secs. 28, 29, 32 and 33)

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

Land, rolling and mountainous.

Soil, rocky, 4th rate.

Timber, juniper and pinyon.

Undergrowth, scrub oak, sagebrush, cat claw and cactus.

Fair grazing.

N. 0° 2' W., bet. secs. 27 and 28.

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

0.12 Wash, 8 lks. wide, 1 ft. deep, course E.

1.00 Wash, 10 lks. wide, 1 ft. deep, course E.

29.30 Wash, 12 lks. wide, 2 ft. deep, course SW. Asc. 125 ft.

40.00 Spur, slopes SW. 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 28 $\frac{1}{4}$ S 27
1921

From which

A pinyon, 12 ins. diam., brs. N. 52° E., 59 lks.
dist., marked $\frac{1}{4}$ S 27 B T.

A juniper, 20 ins. diam., brs. N. 52° W., 48 lks.
dist., marked $\frac{1}{4}$ S 28 B T.

Desc.

43.00 Wash, 10 lks. wide, 1 ft. deep, course S. 15° W. Asc. 15 ft.

45.12 Spur, slopes S. 15° W. Desc. 95 ft.

55.00 Wash, 30 lks. wide, 4 ft. deep, course W. Asc. 25 ft.

58.40 Spur, slopes W. Desc. 30 ft.

63.00 Wash, 10 lks. wide, 3 ft. deep, course W. Asc.

73.77 Desc. over cliff, 60 ft. high, brs. NE. and SW.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in
the ground, in a mound of stone, with marked (X) stone
for cor. of secs. 21, 22, 27 and 28, marked on brass
cap

Completion of the Survey of the Subdivision
of T. 29 N.; R. 15 W.

Chains

T 29 N R 15 W

S 21	S 22
S 28	S 27

1921

From which

A pinyon, 14 ins. diam., brs. S. 38 $\frac{1}{2}$ ° E., 202 lks. dist., marked T 29 N R 15 W S 27 B T.

A pinyon, 10 ins. diam., brs. S. 4° E., 71 lks. dist., marked T 29 N R 15 W S 27 B T.

No other trees within limits.

Land, level and rolling.

Soil, 4th rate.

Timber, pinyon and juniper.

Undergrowth, scrub oak, cat claw, sagebrush and cactus.

Fair grazing.

East, on a random line, bet. secs. 22 and 27.

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

79.92 Intersect N. and S. line, 2 lks. S. of the cor. of secs. 22, 23, 26 and 27.

Thence

S. 89° 59' W., on a true line, bet. secs. 22 and 27.

Over level land, through scattering timber and undergrowth.

8.20 Desc. 15 ft.

10.60 Draw, course NE. Asc. 70 ft.

18.32 Spur, slopes N. Desc. 65 ft.

24.00 Wash, 10 lks. wide, 4 ft. deep, course N. Asc. 15 ft.

27.44 Thence over level land.

39.96 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 22
S 27

1921

From which

A juniper, 10 ins. diam., brs. N. 4 $\frac{1}{2}$ ° W., 25 lks. dist., marked $\frac{1}{4}$ S 22 B T.

A pinyon, 14 ins. diam., brs. S. 9 $\frac{1}{2}$ ° E., 20 lks. dist., marked $\frac{1}{4}$ S 27 B T.

40.88 Wash, 4 lks. wide, 1 ft. deep, course NE. Asc. 80 ft.

48.70 Ridge, brs. N. and S. Desc. 10 ft.

53.60 Draw, course N. Asc. 75 ft.

66.70 Spur, slopes N. 5° E. Desc. 90 ft.

79.92 The cor. of secs. 21, 22, 27 and 28.

Land, level and rolling.

Soil, 4th rate.

Timber, pinyon and juniper.

Undergrowth, black brush, sagebrush, scrub oak and cactus.

Fair grazing.

The closing cor. of secs. 21, and 28, on the W. bdy. of the Hualpai Indian Reservation is an iron post, 2 ins. diam., projecting 12 ins. above ground, properly marked, witnessed by two bearing trees and established 17.78 chs. East of the cor. of secs. 20, 21, 28 and 29.

Thence East on a random line, bet. secs. 21 and 28, continuing measurement.

22.22 (40.00 chs. East of the cor. of secs. 20, 21, 28 and 29.)

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

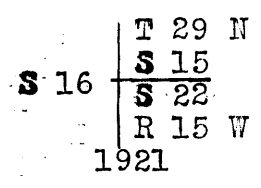
62.22 (79.78 chs. East of the cor. of secs. 20, 21, 28 and 29.)

Completion of the Survey of the Subdivision
of T. 29 N., R. 15 W.

Chains	<p>Intersect N. and S. line, 25 lks. S. of the cor. of secs. 21, 22, 27 and 28. I return to the original closing cor. of secs. 21 and 28. Thence East, on a true line, bet. secs. 21 and 28. Over rolling and mountainous land, through scattering timber and undergrowth. Asc. 60 ft. 2.12 Fence, brs. N. and S. 3.87 Desc. 90 ft. 22.11 (39.89 chs. East of the cor. of secs. 20, 21, 28 and 29.) Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,</p> $\frac{1}{4} \begin{array}{l} S 21 \\ S 28 \end{array}$ <p>1921</p> <p>From which A juniper, 6 ins. diam., brs. N. $38\frac{3}{4}^{\circ}$ E., 164 lks. dist., marked $\frac{1}{4}$ S 21 B T. A pinyon, 14 ins. diam., brs. S. 3° W., 80 lks. dist., marked $\frac{1}{4}$ S 28 B T. Thence N. $89^{\circ} 39'$ E., on a true line, continuing measurement. Continue descent. 25.02 Wash, 10 lks. wide, 2 ft. deep, course NW. Asc. 155 ft. 33.17 Road, brs. NW. and SE. to storage tanks. 33.57 Spur, slopes S. Desc. 70 ft. 35.17 Same road, brs. NE. to storage tanks and SW. 42.42 Wash, 20 lks. wide, 2 ft. deep, course SW. Asc. 215 ft. 52.47 Spur, slopes N. Desc. 95 ft. 57.52 Wash, 30 lks. wide, 3 ft. deep, course N. Asc. 115 ft. 62.00 (79.78 chs. from the cor. of secs. 20, 21, 28 and 29). The cor. of secs. 21, 22, 27 and 28. Land, rolling and mountainous. Soil, rocky, 4th rate. Timber, juniper and pinyon. Undergrowth, scrub oak, sagebrush, cat claw and cactus. Fair grazing.</p>
	<p>N. $0^{\circ} 2'$ W., bet. secs. 21 and 22. Over rolling land, through scattering timber and undergrowth. Asc. gradually. 10.10 Spur, slopes N. 10° W. Desc. 110 ft. 33.95 Wash, course E. Asc. 40 ft. 36.75 Road, brs. N. 60° E. to storage tanks and S. 60° W. 39.68 (A point midway bet. the cor. of secs. 21, 22, 27 and 28 and the cor. of secs. 16 and 21, hereinafter described.) Set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the ground, on ledge rock, in a mound of stone, for $\frac{1}{4}$ sec. cor. of sec. 21, marked on brass cap</p> $\frac{1}{4} S 21$ <p>1921</p> <p>From which A juniper, 10 ins. diam., brs. S. $65\frac{1}{2}^{\circ}$ W., 159 lks. dist., marked $\frac{1}{4}$ S 21 B T. A juniper, 10 ins. diam., brs. N. 56° W., 68 lks. dist., marked $\frac{1}{4}$ S 21 B T. 40.00 Set an iron post, 3 ft. long, 1 in. diam., on ledge of rock, in a mound of stone, for $\frac{1}{4}$ sec. cor. of sec. 22 marked on brass cap</p> $\frac{1}{4} S 22$ <p>1921</p>

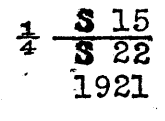
Completion of the Survey of the Subdivision
of T. 29 N., R. 15 W.

Chains From which,
 A pinyon, 12 ins. diam., brs. N. $31\frac{1}{2}^{\circ}$ E., 63 lks.
 dist., marked $\frac{1}{4}$ S 22 B T.
 A juniper, 14 ins. diam., brs. S. $44\frac{3}{4}^{\circ}$ E., 125 lks.
 dist., marked $\frac{1}{4}$ S 22 B T.
 Continue ascent, 125 ft.
 51.10 Spur, slopes E. Desc. 30 ft.
 61.08 Thence along E. slope.
 65.53 Asc., 75 ft.
 74.20 Thence along E. slope.
 76.50 Desc., 20 ft.
 79.35 The closing cor. of secs. 16 and 21, hereinafter described.
 79.75 Wash, 10 lks. wide, 2 ft. deep, course S. 60° E.
 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. 15 and
 22, marked on brass cap



From which
 A juniper, 8 ins. diam., brs. N. $26\frac{1}{2}^{\circ}$ E., 25 lks.
 dist., marked T 29 N R 15 W S 15 B T.
 A juniper, 14 ins. diam., brs. S. $41\frac{3}{4}^{\circ}$ E., 214
 lks. dist., marked T 29 N R 15 W S 22 B T
 Land, rolling.
 Soil, rocky, 4th rate.
 Timber, juniper and cedar
 Undergrowth, scrub oak, sagebrush, cat claw and cactus.
 Fair grazing.

40.00 N. $89^{\circ} 59'$ E., on a random line, bet. secs. 15 and 22.
 Set temp. $\frac{1}{4}$ sec. cor.
 79.98 Intersect N. and S. line, 7 lks. N. of the cor. of secs.
 14, 15, 22 and 23.
 Thence
 N. $89^{\circ} 58'$ W., on a true line, bet. secs. 15 and 22.
 Over rolling land, through scattering timber and under-
 growth. Asc. 125 ft.
 17.60 Thence along S. slope.
 20.00 Desc., 20 ft.
 27.35 Thence along S. slope.
 33.25 Draw, course SE. Asc. 15 ft.
 39.99 Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the
 ground, with marked (X) stone, 14 x 8 x 8 ins., for $\frac{1}{4}$
 sec. cor.; and raise a mound of stone around post, with
 brass cap marked



Asc. 200 ft.
 63.66 Thence along S. slope.
 79.98 The cor. of secs. 15 and 22.
 Land, rolling.
 Soil, rocky, 4th rate.
 Timber, cedar, juniper and pinyon.
 Undergrowth, scrub oak, black brush, cat claw and cactus.
 Fair grazing.

Completion of the Survey of the Subdivision
of T. 29 N., R. 15 W.

Chains The closing cor. of secs. 16 and 21, on the W. bdy. of the Hualpai Indian Reservation is an iron post, 2 ins. diam., set in a mound of stone, properly marked, witnessed by a mound of stone, W. of cor., and established 17.64 chs. East of the cor. of secs. 16, 17, 20 and 21.

Thence

East, on a random line, bet. secs. 16 and 21.
22.36 (40.00 chs. East of the cor. of secs. 16, 17, 20 and 21).
Set temp. $\frac{1}{4}$ sec. cor.

61.55 (79.19 chs. East of the cor. of secs. 16, 17, 20 and 21.)
Intersect N. and S. line, 65 lks. S. of the cor. of secs. 15 and 22. At the point of intersection, set an iron post, 3 ft. long, 2 ins. diam., 8 ins. in the ground, in a mound of stone, for closing cor. of secs. 16 and 21, on W. bdy. of sec. 22 marked on brass cap

	T 29 N	
	S 16	
C C	S 21	S 22
	R 15 W	
		1921

From which,

A juniper, 12 ins. diam., brs. S. $84\frac{1}{2}^{\circ}$ W., 191 lks. dist., marked T 29 N R 15 W S 21 C C B T.

A juniper, 8 ins. diam., brs. N. $47\frac{1}{2}^{\circ}$ W., 123 lks. dist., marked T 29 N R 15 W S 16 C C B T.

I return to the original closing cor. of secs. 16 and 21 on the Hualpai Indian Reservation Boundary.

Thence

East, on a true line, bet. secs. 16 and 21.
Over mountainous land, through scattering timber and undergrowth. Desc.

1.21 Wash, course NW. Asc. 260 ft.

4.56 Fence, brs. N. and S.

21.55 (39.19 chs. East of the cor. of secs. 16, 17, 20 and 21).
Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground, with marked (X) stone, 14 x 8 x 6 ins., for $\frac{1}{4}$ sec. cor.; and raise a mound of stone around post, with brass cap marked

	S 16	
	S 21	
		1921

Continue ascent, 290 ft.

31.16 Spur, slopes S. 30° E. Desc. 95 ft.

38.51 Wash, 10 lks. wide; 1 ft. deep, course S. Asc. 105 ft.

48.66 Spur, slopes S. 20° E. Desc. 135 ft.

61.55 (79.19 chs. East of the cor. of secs. 16, 17, 20 and 21).
The closing cor. of secs. 16 and 21, on the W. bdy. of sec. 22.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, juniper and pinyon.

Undergrowth, scrub oak, cat claw, sagebrush and cactus.

Fair grazing.

Completion of the Survey of the Subdivision
of T. 29 N., R. 15 W.

Chains From the cor. of secs. 15 and 22;
N. 0° 2' W., along the W. bdy. of sec. 15.
Over rolling and mountainous land, through scattering
timber and undergrowth.
Asc. 155 ft.
9.90 Ridge, brs. E. and W. Desc. 235 ft.
28.30 Wash, course E. Asc. 160 ft.
39.53 (40.18 chs. N. 0° 2' W. of the closing cor. of secs. 16 and
21, and the mid-point between the closing cor. of secs.
16 and 21 and the closing cor. of secs. 9 and 16, here-
inafter described.)
Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the
ground, with marked (X) stone, 10 x 8 x 4 ins., for $\frac{1}{4}$
sec. cor. of sec. 16; and raise a mound of stone around
post, with brass cap marked

$\frac{1}{4}$ S 16 |
1921

40.00 Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the
ground, with marked (X) stone, 12 x 10 x 9 ins., for
 $\frac{1}{4}$ sec. cor. of sec. 15; and raise a mound of stone
around post. with brass cap marked

$\frac{1}{4}$ S 15 |
1921

Continue ascent, 120 ft.

46.39 Ridge, brs. E. and W. Desc. 210 ft.
61.85 Wash, 10 lks. wide, 2 ft. deep, course E. Asc. 195 ft.
79.71 (80.36 chs. N. 0° 2' W. of the closing cor. of secs. 16
and 21.) The closing cor. of secs. 9 and 16, here-
inafter described.

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. 10
and 15, marked on brass cap

S 9 | T 29 N
S 10
S 15
R 15 W
1921

From which

A cedar, 14 ins. diam., brs. N. 11° E., 165 lks.
dist., marked T 29 N R 15 W S 10 B T.

A cedar, 14 ins. diam., brs. S. 40 $\frac{1}{2}$ ° E., 432 lks.
dist., marked T 29 N R 15 W S 15 B T.

Land, rolling and mountainous.

Soil, rocky, 4th rate.

Timber, juniper, cedar and pinyon.

Undergrowth, sagebrush, scrub oak, cat claw and cactus.

Fair grazing.

S. 89° 58' E., on a random line, bet. secs. 10 and 15.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.96 Intersect N. and S. line, 2 lks. N. of the cor. of secs.
10, 11, 14 and 15.

Thence

N. 89° 57' W., on a true line, bet. secs. 10 and 15.
Over rolling land, through scattering timber and under-
growth. Desc.

0.95 Wash, 10 lks. wide, 1 ft. deep, course NE. Asc. 65 ft.
11.70 Spur, slopes N. 80° E. Desc. 130 ft.
28.95 Draw, course N. Asc.
34.85 Desc. 30 ft.
38.55 Wash, 15 lks. wide, 3 ft. deep, course NE. Asc.

Completion of the Survey of the Subdivision
of T. 29 N., R. 15 W.

Chains 39.98 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.

$\frac{1}{4}$ $\frac{S 10}{S 15}$
1921

From which

A juniper, 6 ins. diam., brs. N. $79\frac{1}{2}^{\circ}$ W., 134 lks. dist., marked $\frac{1}{4}$ S 10 B T.

A juniper, 18 ins. diam., brs. S. $28\frac{1}{2}^{\circ}$ E., 144 lks. dist., marked $\frac{1}{4}$ S 15 B T.

Desc.

40.95 Wash, 10 lks. wide, 1 ft. deep, course SE. Asc. 335 ft.
79.96 The cor. of secs. 10 and 15.

Land, rolling.

Soil, rocky, 4th rate.

Timber, juniper and pinyon.

Undergrowth, scrub oak, sagebrush, cat claw and cactus.

Fair grass.

The witness cor. to the closing cor. of secs. 9 and 16, on the Hualpai Indian Reservation Bdy., 3.33 chs. West of the true point for said closing cor., is an iron post, 2 ins. diam., set in a mound of stone, properly marked, witnessed by a mound of stone, W. of cor. and established 14.33 chs. East of the cor. of secs. 8, 9, 16 and 17.

From the true point for cor.,

East on a random line, bet. secs. 9 and 16.

21.34 (39.00 chs. East of the cor. of secs. 8, 9, 16 and 17.)

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

61.35 (79.01 chs. East of the cor. of secs. 8, 9, 16 and 17.)

Intersect N. and S. line, 29 lks. S. of the cor. of secs. 10 and 15. At the point of intersection

set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground, in a mound of stone, for closing cor. of secs. 9 and 16, marked on brass cap

T 29 N
C C $\frac{S 9}{S 16}$ S 15
R 15 W
1921

From which

A cedar, 12 ins. diam., brs. S. $10\frac{3}{4}^{\circ}$ W., 215 lks. dist., marked T 29 N R 15 W S 16 C C B T.

A cedar, 24 ins. diam., brs. N. $73\frac{1}{2}^{\circ}$ W., 115 lks. dist., marked T 29 N R 15 W S 9 C C B T.

I return to the true point for closing cor. of secs. 9 and 16, on the Hualpai Indian Reservation Boundary, at which fence brs. N. and S.

Thence East on a true line.

Over mountainous land, through scattering timber and undergrowth. Desc. 215 ft.

9.34 Asc. 80 ft.

21.35 (39.01 chs. East of the cor. of secs. 8, 9, 16 and 17.)

Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the

Completion of the Survey of the Subdivision
of T. 29 N., R. 15 W.

Chains

ground, with marked (X) stone, 12 x 8 x 4 ins., for $\frac{1}{4}$ sec. cor.; and raise a mound of stone around post, with brass cap marked

$\frac{1}{4}$ S 9
S 16
1921

Continue ascent, 205 ft.

36.49 Ridge, brs. N. and S. Desc. 115 ft.

51.35 Draw, course SE. Asc. 25 ft.

61.35 (79.01 chs. East of the cor. of secs. 8, 9, 16 and 17.)

The closing cor. of secs. 9 and 16, on the W. bdy. of sec. 15
Land, mountainous.

Soil, rocky, 4th rate.

Timber, juniper and pinyon.

Undergrowth, scrub oak, cat claw, sagebrush and cactus.

Fair grazing.

From the cor. of secs. 10 and 15.

N. $0^{\circ} 2'$ W., along the W. bdy. of sec. 10.

Over-rolling land, through scattering timber and undergrowth. Asc. 15 ft.

1.70 Spur, slopes E. Desc. 310 ft.

22.06 Draw, 10 lks. wide, 3 ft. deep, course NE. Asc. 125 ft.

39.71 (40.00 chs. N. $0^{\circ} 2'$ W., of the closing cor. of secs. 9 and 16 and the midpoint between closing cor. of secs. 9 and 16 and the closing cor. of secs. 4 and 9, hereinafter described.)

Set an iron post, 3 ft. long, 1 in. diam., 16 ins. in the ground, with marked (X) stone, 14 x 8 x 4 ins., for $\frac{1}{4}$ sec. cor. of sec. 9; and raise a mound of stone around post, with brass cap marked

$\frac{1}{4}$ S 9
1921

40.00 Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground, with marked (X) stone, 12 x 8 x 4 ins., for $\frac{1}{4}$ sec. cor. of sec. 10; and raise a mound of stone around post, with brass cap marked

$\frac{1}{4}$ S 10
1921

Asc. 80 ft.

51.52 Ridge, brs. E. and W. Desc.

62.40 Asc. 35 ft.

64.52 Fence, brs. NE. and SW.

68.50 Spur, slopes NE. Desc. 210 ft.

79.71 (80.00 chs. N. $0^{\circ} 2'$ W., of the closing cor. of secs. 9 and 10.) The closing cor. of secs. 4 and 9, hereinafter described.

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. 3 and 10, marked on brass cap

T 29 N
S 3
S 4 | S 10
R 15 W
1921

From which

A pinyon, 10 ins. diam., brs. N. $52\frac{3}{4}^{\circ}$ E., 139 lks. dist., marked T 29 N R 15 W S 3 B T.

A juniper, 20 ins. diam., brs. S. $42\frac{3}{4}^{\circ}$ E., 146 lks. dist., marked T 29 N R 15 W S 10 B T.

Completion of the Survey of the Subdivision
of T. 29 N., R. 15 W.

Chains Land, rolling.
Soil, rocky, 4th rate.
Timber, juniper and pinyon
Undergrowth, scrub oak, sagebrush, cat claw and cactus.
Fair grazing.

From the cor. of secs. 3 and 10.
S. 89° 57' E., on a random line, bet. secs. 3 and 10.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.12 Intersect N. and S. line, 9 lks. S. of the cor. of secs.
2, 3, 10 and 11.
Thence
S. 89° 59' W., on a true line, bet. secs. 3 and 10.
Over level land, through scattering timber and undergrowth.
8.60 Road, brs. N. to Storage tanks and S. to Clay Springs.
40.06 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

S 3
S 10
1921.

From which

A juniper, 12 ins. diam., brs. N. 48° W., 78 lks.
dist., marked $\frac{1}{4}$ S 3 B T.
A juniper, 6 ins. diam., brs. S. 83 $\frac{1}{2}$ ° E., 144
lks. dist., marked $\frac{1}{4}$ S 10 B T.

Asc. 180 ft.
71.28 Spur, slopes N. Desc. 135 ft.
71.54 Fence, brs. NE. and SW.
80.12 The cor. of secs. 3 and 10.
Land, level, rolling and mountainous.
Soil, rocky, 4th rate.
Timber, juniper and pinyon.
Undergrowth, scrub oak, sagebrush, cat claw and cactus.
Fair grazing.

The closing cor. of secs. 4 and 9, on the W. bdy. of the
Hualpai Indian Reservation is an iron post, 2 ins.
diam., set in a mound of stone properly marked, wit-
nessed by a mound of stone, W. of cor., and establish-
ed 17.57 chs. East of the cor. of secs. 4, 5, 8 and 9.
Thence
East, on a random line, bet. secs. 4 and 9
21.43 (39.00 chs. East of the cor. of secs. 4, 5, 8 and 9.
Set temp. $\frac{1}{4}$ sec. cor.
61.08 (78.65 chs. East of the cor. of secs. 4, 5, 8 and 9).
Intersect N. and S. line, 29 lks. S. of the cor. of secs.
3 and 10. At the point of intersection.
Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in
the ground, in a mound of stone, for closing cor. of
secs. 4 and 9, on E. bdy. of sec., marked on brass cap

T 29 N
S 4
C C ——— S 10
S 9
R 15 W
1921.

From which

Completion of the Survey of the Subdivision
of T. 29 N., R. 15 W. BOOK 3505

Chains

A pinyon, 14 ins. diam., brs. S. 15 $\frac{1}{2}$ ^o W., 425 lks. dist., marked T 29 N R 15 W S 9 C C B T.

A pinyon, 6 ins. diam., brs. N. 67 $\frac{1}{4}$ ^o W., 218 lks. dist., marked T 29 N R 15 W S 4 C C B T.

I return to the original closing cor. of secs. 4 and 9, on the W. bdy. of the Hualpai Indian Reservation.

Thence East, on a true line, bet. secs. 4 and 9, continuing measurement.

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

1.28 Spur, slopes NE. Desc. 160 ft.

21.08 (38.65 chs. East of the cor. of secs. 4, 5, 8 and 9, and 40.00 chs. West of the closing cor. of secs. 4 and 9, on the W. bdy. of sec. 10) 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

$\frac{1}{4}$ $\frac{S}{S}$ $\frac{4}{9}$
1921

From which

A juniper, 10 ins. diam., brs. N. 80 $\frac{1}{2}$ ^o E., 299 lks. dist., marked $\frac{1}{4}$ S 4 B T.

A juniper, 8 ins. diam., brs. S. 52 $\frac{3}{4}$ ^o E., 224 lks. dist., marked $\frac{1}{4}$ S 9 B T.

Continue descent, 15 ft.

25.73 Draw, course S. 15^o W. Asc. 185 ft.

41.03 Thence over level land.

50.08 Asc. 110 ft.

61.08 (78.65 chs. East of the cor. of secs. 4, 5, 8 and 9.) The closing cor. of secs. 4 and 9, on the W. bdy. of sec. 10.

Land, rolling.

Soil, rocky, 4th rate.

Timber, juniper and pinyon.

Undergrowth, scrub oak, cat claw, sagebrush and cactus.

Fair grazing.

From the cor. of secs. 3 and 10.

39.71 N. 0^o 15' W., on a random line, along the W. bdy. of sec. 3. (40.00 chs. from the closing cor. of secs. 4 and 9.)

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

40.00 Set temp. $\frac{1}{4}$ sec. cor. of sec. 3.

80.04 Fall 16 lks. W. of the cor. of secs. 3, 4, 33 and 34, on the N. bdy. of Tp., hereinbefore described.

Thence

S. 0^o 8' E., on a true line, along the W. bdy. of sec. 3.

Over level land, through scattering timber and undergrowth.

20.00 Leave level land, through scattering timber and undergrowth.

40.04 Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground, with marked (X) stone, 8 x 8 x 4 ins., for $\frac{1}{4}$ sec. cor. of sec. 3; and raise a mound of stone around post, with brass cap marked

$\frac{1}{4}$ S 3
1921

40.33 (40.00 chs. from the closing cor. of secs. 4 and 9.) Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground, with marked (X) stone, 12 x 10 x 6 ins. for $\frac{1}{4}$ sec. cor. of sec. 4; and raise a mound of stone around post, with brass cap marked

Completion of the Survey of the Subdivision
of T. 29 N., R. 15

Chains

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

1921.

Thence over level land
44.40 Wash, 10 lks. wide, 1 ft. deep, course NW. Asc. 185 ft.
56.90 Desc. 50 ft.
64.80 Asc. 60 ft.
80.04 The cor. of secs. 3 and 10.
Land, level, rolling and mountainous.
Soil, rocky, 4th rate.
Timber, juniper and pinyon.
Undergrowth, black brush, sagebrush, cat claw and cactus.
Fair grazing.

The continued satisfactory adjustment of the solar apparatus during the survey of this township is indicated from field tests as described in Book "H".

GENERAL DESCRIPTION.

The portion of T. 29 N., R. 15 W., surveyed at this time is mostly rolling land, with no very steep slopes or deep ravines. The general drainage is East and North-east. Most of the township is covered with a heavy growth of juniper timber up to fourteen inches in diameter, with open sagebrush or grassy meadows along the washes. The undergrowth is mostly sagebrush, yucca and black brush.

The soil in the flats is a sandy loam, on the ridges generally rocky, 3rd and 4th rates. The mesas are generally gravelly, 2nd rate soil. There is considerable grass and feed for stock, but the country is very dry. There is no spring nor other water in the township, the reservoirs in secs. 24 and 25 being empty.

BOOK 3565

4-680

FIELD ASSISTANTS. to

William E. Hiester, U. S. Transitman.

NAMES.	CAPACITY.
Robert A. Johnson	1st Chainman
Irving A. Jennings	2nd Chainman
Walter Thomas	Moundsman
Lorenzo Jennings	Flagman
James Chamberlain	Axman

BOOK 3565

CERTIFICATE OF UNITED STATES TRANSITMAN.

I, William E. Hiester, U.S. Transitman, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 110, Arizona,

bearing date of the 27th day day of February, 1920, I have well, faithfully, and truly

in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, retraced ~~surveyed~~ all those parts or portions of the

Boundary of the Hualpai Indian Reservation, and surveyed all those parts or portions of the North boundary and Subdivision lines of TOWNSHIP 29 NORTH, RANGE 15 WEST,

of the Gila and Salt River Base & Meridian, in the State of Arizona, and by diagram on page 1 hereof

the foregoing field notes as having been executed by me, and under my direction; and that all the corners of retracement and 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 110, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such retracement and survey.

Place: Wolf Hole, Arizona.

Date: June 21, 1923.

William E. Hiester U. S. Transitman

APPROVAL

OFFICE OF THE UNITED STATES SURVEYOR GENERAL

The foregoing field notes of the survey of ... executed by ... under his special instructions dated ... 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 ... has been correctly copied from the original notes on file in this office

BOOK 3565

4-680

FIELD ASSISTANTS. to

Thomas D. Daley, U. S. Surveyor

NAMES.	CAPACITY.
A. L. Bailey	1st Chainman
Sam Dysart	2nd Chainman
Lorenzo Jennings	2nd Chainman
Stewart Carpenter	Flagman
H. M. O'Connor	Moundsman

BOOK 3565

CERTIFICATE OF UNITED STATES SURVEYOR.

I, Thomas D. Daley, U. S. Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 110, Arizona, bearing date of the 27th day of February, 1920 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 Seventh Standard Parallel North, thru. part of Range 15 West, the East boundary and Subdivision lines of TOWNSHIP 29 NORTH, RANGE 15 WEST.

of the Gila and Salt River Base and Meridian, in the State of Arizona, and by diagram on page 1 hereof the foregoing field notes as having been executed by me, and under my direction; and that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General, for Group 110, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Place Santa Fe, N.M. Date June 1, 1923 Thomas D. Daley U. S. Surveyor. APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL, Phoenix, Arizona, JUN 30, 1923.

The foregoing field notes of the survey of retracement of part of the boundary of the Hualpai Indian Reservation, and Survey of the Seventh Standard Parallel North, thru. part of Range 15 West, (completion) East boundary, Part of the North boundary (completion), and Part of the Subdivision lines (completion) of

TOWNSHIP 29 NORTH, RANGE 15 WEST, of the Gila and Salt River Base and Meridian, in the State of Arizona, executed by Thomas D. Daley, U.S. Surveyor, & William E. Hiester, U.S. Transitman under the special instructions dated Feb. 27, 1920, for Group 110, Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the retracement and surveys they describe, are hereby approved.

Francis B. Frost 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.