

3507

CR 16

BOOK 3507

4-679

Book "E"

FIELD NOTES

OF THE SURVEY OF THE

West boundary,

part of the North boundary,

and part of the Subdivision lines of

Township 31 North, Range 6 West,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona

EXECUTED BY

Dupree R. Averill, U. S. Surveyor,

and

James C. O'Brien, U. S. Transitman,

In the capacity of U. S. Surveyor, under Special Instructions dated February 24, 1920, issued by the United States Surveyor General to govern surveys included in Group No. 105, Arizona, which were approved by the Commissioner of the General Land Office, March 8, 1920, and Assignment Instructions dated March 27, 1920 April 15, 1920

Survey commenced June 3, 1920

Survey completed July 12, 1920

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BOOK 3507

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- ==== Lines surveyed under this Group.
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Book "LE"

DATE DIAGRAM.

TOWNSHIP 31 NORTH, RANGE 6 WEST.

DATE 1920

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E. line of Body of Hualpai Indian Res.

See book "D" for dates of survey of this line

Red lines on above diagram indicate surveys executed by Dupree R. Averill, U.S. Surveyor, on dates shown thereon.

Blue lines on above diagram indicate surveys executed by James C. O'Brien, U.S. Transitman, on dates shown thereon.

Surveys hereinafter described executed on dates shown on page 1 hereon, by Dupree R. Averill, U.S. Surveyor, and James C. O'Brien, U. S. Transitman, using respectively Buff solar transit No. 9223, and Young and Sons solar transit No. 8541. Each instrument is equipped with full vertical circle and the Smith solar attachment; unless otherwise specified, all azimuth determinations are accomplished with the solar attachments.

May 30, 1920. We examine the adjustment of each instrument, and correct all errors; then, to test the solar apparatus by comparing its indications from observations made during a. m. and p. m. hours with a meridian established by Polaris observations May 22, 1920, by us at camp, near the center of sec. 33, T. 30 N., R. 6 W., as described in Book "D," proceed with each instrument as follows:

May 30, 1920. At 9h. 00m. a. m., l. m. t., set off $35^{\circ}56\frac{1}{2}'$ N. on the lat. arc; $21^{\circ}48'$ N. on the decl. arc, and determine a meridian with the solar, which agrees with the true meridian.

At app. noon, with the lat. arc unchanged, observe the sun on the meridian; the resulting reading of the decl. arc is $21^{\circ}49'$ N., which agrees with the computed declination of the sun.

At 3h. 00. p. m., l. m. t., with the latitude arc unchanged, set off $21^{\circ}50\frac{1}{2}'$ N. on the decl. arc, and determine a meridian with the solar, which agrees with the true meridian.

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

Unless otherwise specified, all measurements are made with Lufkin steel tapes, 5 chs. in length, compared with a Chesterman standard steel tape, and found correct.

The measurements are made on the slope, the vertical angle determined, and the slope measurements properly reduced to the true horizontal distances.

Chains.

From the cor. of Ts. 30 and 31 N., Rs. 6 and 7 W., described in Book "C,"

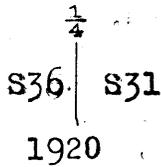
North, on true line, bet. secs. 31 and 36.

Over mountainous land, thru. dense timber and undergrowth. Descend 45 ft., over N. slope.

4.00 Draw, course N. 20° E. Asc. 160 ft., over SE. slope.

32.00 Spur, slopes E. Desc. 50 ft., over N. slope, to

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



from which,

A pine, 10 ins. in diam., brs. N. 75° E., 82 lks.

dist., mkd. T31 BT.

A pine, 8 ins. in diam., brs. S. 43° W., 50 lks.

dist., mkd. T36 BT.

Continue over rolling land, thru. dense timber and undergrowth. Desc. slightly over N. slope, to

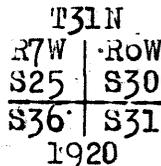
42.30 Shallow draw, course NE. Desc. 40 ft., over NE. slope.

50.00 Confluence of two shallow draws, coming from NW. and SW., course E. from this point. Asc. 155 ft. over S. slope.

62.20 Spur, slopes E. Desc. 40 ft., over N. slope.

77.00 Shallow draw, course NE. Asc. 20 ft., over SE. slope, to

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 13 ins. in the ground, to bed rock, supported in a mound of stone, for cor. of secs. 25, 30, 31 and 36, marked on brass cap,



from which,

A pine, 10 ins. in diam., brs. N. 53 $\frac{1}{2}$ ° E., 96 lks.

dist., mkd. T31N R6W S30 BT.

A pine, 12 ins. in diam., brs. S. 53 $\frac{1}{2}$ ° E., 20 lks.

dist., mkd. T31N R6W S31 BT.

A pine, 10 ins. in diam., brs. S. 35° W., 33 lks.

dist., mkd. T31N R7W S36 BT.

A pine, 8 ins. in diam., brs. N. 70° W., 17 lks.

dist., mkd. T31N R7W S25 BT.

Land, mountainous.

Soil, gravelly and rocky, 3rd rate.

Timber, dense pine and cedar.

Undergrowth, dense dogwood, sagebrush, scrub cedar and Spanish bayonet.

Poor grass.

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

Over mountainous land, thru. dense timber and undergrowth. Ascend 16 ft. over SE. slope.

2.00 Desc. 35 ft., over NE. slope.

5.40 Wash, course E. Asc. 70 ft., over S. slope.

9.50 Spur, slopes E. Desc. 110 ft. over N. slope.

18.40 Wash, course NE.

19.20 Wash, course E. Asc. 140 ft., over broken SE. slope.

30.00 Spur, slopes NE. Desc. 60 ft., over N. slope.

34.80 Shallow draw, course NE. Asc. 65 ft., over SE. slope, to

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

West boundary of Township 31 North, Range 6 West.

Chains.

$\frac{1}{4}$
 S25 | S30
 1920

from which,

- A pine, 10 ins. in diam., brs. S. $53\frac{1}{4}^{\circ}$ E., 16 lks.
dist., mkd. $\frac{1}{4}$ S 30 BT.
- A pine, 8 ins. in diam., brs. N. $73\frac{1}{2}^{\circ}$ W., 49 lks.
dist., mkd. $\frac{1}{4}$ S 25 BT.

Continue over mountainous land, thru. dense timber and undergrowth. Desc. 25 ft., over NE. slope.

- 43.60 Draw, course E. Asc. gradually over SE. slope.
- 50.00 Thence over E. slope, with slight change in elevation.
- 67.20 Descend 60 ft., over NE. slope.
- 75.80 Head of draw, course NW. Ascend 25 ft., over SW. slope, to
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., on surface rock, in a mound of stone, for cor. of secs. 19, 24, 25 and 30, marked on brass cap,

T31N
 R7W | R6W
 S24 | S19
 S25 | S30
 1920

from which,

- A pine, 12 ins. in diam., brs. N. $49\frac{1}{2}^{\circ}$ E., 44 lks.
dist., mkd. T31N R6W S19 BT.
- A pine, 14 ins. in diam., brs. S. $52\frac{1}{2}^{\circ}$ E., 85 lks.
dist., mkd. T31N R6W S30 BT.
- A pine, 18 ins. in diam., brs. S. 59° W., 6 lks.
dist., mkd. T31N R7W S25 BT.
- A pine, 10 ins. in diam., brs. N. 46° W., 150 lks.
dist., mkd. T31N R7W S24 BT.

Land, mountainous and broken.
Soil, gravelly and rocky, 3rd rate.
Timber, dense pine and cedar.
Undergrowth, dense sagebrush, dogwood, scrub cedar and Spanish bayonet.
Poor grass.

North, on true line, bet. secs. 19 and 24.
Over mountainous land, thru. dense timber and undergrowth.
Descend 70 ft., over NW. slope.

- 5.20 Wash, course NE. Asc. 34 ft., over SE. slope.
- 10.40 Ridge, brs. NE and SW. Desc. 70 ft., over N. slope.
- 20.40 Draw, course NE. Desc. slightly over foot of E. slope, to
- 24.40 Same draw, course NW. Asc. 45 ft., over SW. slope.
- 27.00 End of same ridge, brs. W. from SE. Desc. 40 ft., over N. slope.
- 33.30 Gully, course E. Asc. 20 ft., to
- 35.00 Foot of rocky cliff, facing SE. Asc. 85 ft. to
- 37.90 Top of cliff, brs. W. and NE. Asc. 12 ft., over SE. slope, to
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$
 S24 | S19
 1920

from which,

- A pine, 14 ins. in diam., brs. S. $20\frac{3}{4}^{\circ}$ E., 83 lks.
dist., mkd. $\frac{1}{4}$ S19 BT.
- A pine, 10 ins. in diam., brs. S. $45\frac{1}{2}^{\circ}$ W., 46 lks.
dist., mkd. $\frac{1}{4}$ S 24 BT.

Continue over broken and mountainous land, thru. dense timber and undergrowth. Asc. 25 ft., over SE. slope.

Section 302

West boundary of Township 31 North, Range 6 West.

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Chains.

46.00 Descend 60 ft., over NE. slope.
 50.88 Gulch, course E. Asc. 80 ft., over S. slope, to
 55.00 Thence over E. slope.
 65.00 Descend 25 ft. over N. slope.
 68.20 Rocky gulch, course E. Asc. 30 ft., over cliff, facing S.
 71.00 Top of rocky cliff, brs. E. and W. Asc. 55 ft., over S. slope.
 75.50 Spur, slopes E. from NW. Desc. gradually over NE. slope, to
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in
 the ground, to bed rock, supported in a mound of stone,
 for cor. of secs. 13, 18, 19 and 24, marked on brass cap,

T31N	
R7W	R6W
S13	S18
S24	S19
1920	

from which,
 A pine, 8 ins. in diam., brs. N. $49\frac{1}{2}^{\circ}$ E., 40 lks.
 dist., mkd. T31N R6W S18 BT.
 A pine, 10 ins. in diam., brs. S. $59\frac{1}{2}^{\circ}$ E., 56 lks.
 dist., mkd. T31N R6W S19 BT.
 A pine, 10 ins. in diam., brs. S. 54° W., 5 lks.
 dist., mkd. T31N R7W S24 BT.
 A pine, 10 ins. in diam., brs. N. $12\frac{1}{2}^{\circ}$ W., 26 lks.
 dist., mkd. T31N R7W S13 BT.

Land, broken and mountainous.
 Soil, gravelly and rocky, 3rd rate.
 Timber, dense pine and cedar.
 Undergrowth, dense sage brush, dogwood, scrub cedar and
 Spanish bayonet.
 Poor grass.

North, on true line, bet. secs. 13 and 18.
 Over rolling land, thru dense timber and undergrowth.
 Descend 40 ft. over NE. slope.

5.50 Shallow wash, course E. Asc. 75 ft., over SE. slope, to
 13.00 Leave rolling and enter level land.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 22 ins. in
 the ground, to bed rock, supported in a mound of
 stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

T31N	
S13	S18
1920	

from which,
 A pine, 8 ins. in diam., brs. S. $88\frac{1}{2}^{\circ}$ E., 50 lks.
 dist., mkd. T31N S18 BT.
 A pine, 16 ins. in diam., brs. S. 46° W., 47 lks.
 dist., mkd. T31N S13 BT.

60.00 Continue over level land, thru dense timber and undergrowth.
 Leave level, and enter gently rolling land. Desc. 30 ft.,
 over NE. slope.
 69.00 Shallow draw, course NE. Asc. 30 ft., over SE. slope, to
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 14 ins. in
 the ground, to bed rock, supported in a mound of stone,
 for cor. of secs. 7, 12, 13 and 18, marked on brass cap,

T31N	
R7W	R6W
S12	S7
S13	S18
1920	

from which,
 A pine, 10 ins. in diam., brs. N. $39\frac{3}{4}^{\circ}$ E., 90 lks.
 dist., mkd. T31N R6W S7 BT.
 A pine, 8 ins. in diam., brs. S. 50° E., 60 lks.
 dist., mkd. T31N R6W S18 BT.
 A pine, 18 ins. in diam., brs. S. $35\frac{1}{2}^{\circ}$ W., 175 lks.
 dist., mkd. T31N R7W S13 BT.

6 West boundary of Township 31 North, Range 6 West.

Chains.

A pine, 14 ins. in diam., brs. N. $50\frac{1}{2}^\circ$ W., 184 lks.
 dist., mkd. "T31N R7W S12 BT."
 Land, rolling and level.
 Soil, gravelly and rocky, 2nd and 3rd rate.
 Timber, dense pine and cedar.
 Undergrowth, dense sage brush, dogwood, scrub cedar and
 Spanish bayonet.
 Poor grass.

North, on true line, bet. secs. 7 and 12.
 Over rolling land, thru dense timber and undergrowth.
 Descend 55 ft. over NE. slope, to
 8.30 S. edge of shallow draw, brs. NE. and SW. Thence across
 draw, course NE. Leave timber.
 12.80 N. edge of same draw, brs. NE. and SW. Leave draw; ascend
 slightly to
 15.00 Enter scattering timber; thence along E. slope, descending
 slightly to
 20.00 S. edge of shallow draw, brs. NW. and SE. Thence across
 draw, course NW.
 23.60 N. edge of draw, brs. NW. and SE. Leave draw; enter dense
 timber. Thence along W. slope, descending slightly to
 40.00 S. edge of shallow draw, brs. E. and W. Set an iron post,
 3 ft. long, 1 in. in diam., 8 ins. in the ground, to
 bed rock, supported in a mound of stone, for $\frac{1}{4}$ sec. cor.
 marked on brass cap,

$\frac{1}{4}$
 S12 | S 7
 1920

from which,

A cedar, 10 ins. in diam., brs. S. $83\frac{1}{2}^\circ$ E., 198 lks.
 dist., mkd. "S 7 BT."

A pine, 14 ins. in diam., brs. S. $5\frac{1}{2}^\circ$ W., 173 lks.
 dist., mkd. "S 12 BT."

Continue over gently rolling land, thru dense timber and
 undergrowth, across shallow draw, course W.
 42.00 N. edge of draw, bears E. and W. Leave draw. Asc. 60 ft.,
 over S. slope, to
 50.00 Thence over rolling W. slope, descending 60 ft. to
 68.50 Descend 60 ft., over NE. slope, to
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in
 the ground, to bed rock, supported in a mound of stone
 for cor. of secs. 1, 6, 7 and 12, marked on brass cap,

T31N
 R7W | R6W
 S 1 | S 6
 S12 | S 7
 1920

from which,

A twin pine, 6 ins. in diam., brs. N. $55\frac{1}{2}^\circ$ E., 86 lks.
 dist., mkd. "T31N R6W S6 BT."

A pine, 10 ins. in diam., brs. S. $30\frac{1}{2}^\circ$ E., 112 lks.
 dist., mkd. "T31N R6W S7 BT."

A pine, 10 ins. in diam., brs. S. $82\frac{1}{2}^\circ$ W., 50 lks.
 dist., mkd. "T31N R7W S12 BT."

A cedar, 10 ins. in diam., brs. N. 14° W., 77 lks.
 dist., mkd. "T31N R7W S1 BT."

Land, gently rolling.
 Soil, gravelly and rocky, 2nd and 3rd rate.
 Timber, dense cedar and pine.
 Undergrowth, dense scrub cedar, dogwood, sagebrush and
 Spanish bayonet.
 Fair grass.

Chains.

- North, on true line, bet. secs. 1 and 6.
 Over rolling and broken land, thru. dense timber and undergrowth. Desc. 45 ft., over NE. slope.
 8.60 Shallow draw, course NE. Thence over E. slope, with slight change in elevation.
 17.00 Descend 60 ft., over NE. slope.
 21.80 Draw, course NW. Thence over slide rock on W. slope, ascending 70 ft., to
 38.00 Ascend 50 ft., over SW. slope, to
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground, to bed rock, supported in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$
 S 1 | S 6
 1920

from which,

- A pine, 10 ins. in diam., brs. N. 83° E., 28 lks. dist., mkd. "S 6 BT."
- A pine, 8 ins. in diam., brs. W. 22 lks. dist., mkd. "S 1 BT."

- Continue over rolling and broken land, thru. dense timber and undergrowth. Descend slightly over N. slope, to
 41.00 Wash, course W. Enter mountainous land. Ascend 110 ft., over S. slope.
 47.80 Spur, slopes W. Descend 30 ft., over N. slope.
 51.00 Draw, course SW. Ascend 67 ft., over SW. slope.
 56.30 Descend 20 ft., over NW. slope.
 60.00 Ascend 30 ft., over SW. slope.
 65.00 Descend 90 ft., over slide rock on NW. slope, to
 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 12 ins. in the ground, to bed rock, supported in a mound of stone, for cor. of Ts. 31 and 32 N., Rs. 6 and 7 W., marked on brass cap,

T32N
 R7W | R6W
 S36 | S31
 S 1 | S 6
 T31N
 1920

from which,

- A pine, 14 ins. in diam., brs. N. 28° E., 328 lks. dist., mkd. "T32N R6W S31 BT."
- A pine, 15 ins. in diam., brs. S. 39 $\frac{3}{4}$ ° W., 158 lks. dist., mkd. "T31N R7W S1 BT."
- A pine, 7 ins. in diam., brs. N. 82 $\frac{1}{2}$ ° W., 188 lks. dist., mkd. "T32N R7W S36 BT."

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

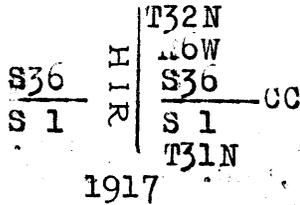
Land, rolling, broken and mountainous.
 Soil, rocky, 4th rate.
 Timber, dense cedar and pine.
 Undergrowth, dense sage brush, scrub cedar and Spanish bayonet.
 Poor grass.

8 Survey of part(completion)of North bdy.of T.31 N., R.6 W.
Chains.

The portion of the North bdy.of T.31 N., R.6 W. situated outside the Hualpai Indian Reservation was surveyed March 23, 1917, by W. H. Thorn, U.S.S., who surveyed said line West 34.57 chs. from cor. of Ts. 31 and 32 N., Rs. 5 and 6 W. to intersection with the boundary of the Hualpai Indian Reservation and established closing cor. for those portions of Ts. 31 and 32 N., R.6 W., situated outside the Reservation.

This closing cor. is an iron post, 3 ins. in diam. firmly set in ground and mound of stone, properly marked on brass cap, and witnessed by a mound of stone E. of cor., and one bearing tree, a cedar, S. 22 1/4° E., 344 lks. dist., properly marked.

Change the marking on the brass cap to read



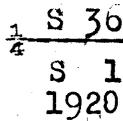
This closing cor. now refers to areas on both sides of the Reservation boundary.

Thence

West, on true line, completing survey of that portion of the 1/2 of line, bet. secs. 1 and 36, which lies inside the Hualpai Indian Reservation.

Over gently rolling land, thru. scattering timber and undergrowth, along NE. slope, with very slight change in elevation.

5.43 (40.00 chs. W. from Tp. cor.) Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground, for 1/4 sec. cor., marked on brass cap,



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

Land, gently rolling, nearly level.

Soil, gravelly and rocky clay, 3rd rate.

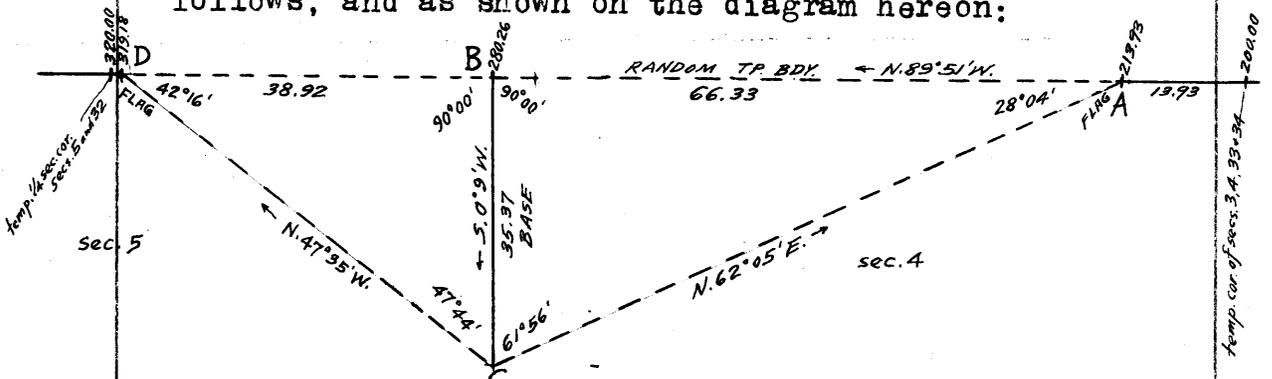
Timber, very scattering cedar.

Undergrowth, scattering scrub cedar, algerita and sage brush.

Fair grass.

From 1/4 sec. cor. of secs. 1 and 36, described above N. 89° 51' W., (parallel to S. bdy. of Tp.) on random line, setting temp. sec. and 1/4 sec. cors. alternately at intervals of 40.00 chs.

213.93 (13.93 chs. N. 89° 51' W. from temp. cor. of secs. 3, 4, 33 and 34), E. rim of National Canyon, brs. N. and S. Discontinue chaining on random Tp. bdy. at this point, and triangulate measurement across the canyon, as described as follows, and as shown on the diagram hereon:



Leave flag on line at E. rim of canyon indicated at point "A."

BOOK 1207

Part (completion) of North bdy. of T. 31 N., R. 6 W.

Chains.

Set flag ahead on random line on W.wall of canyon at point "B."
 Set flag on line at W.rim of canyon at point "D."
 From point "B" measure a base S.0°9'W., 35.37 chs. to point "C."
 Bearing "C" to "A" = N. 62°05' E.
 Bearing "C" to "D" = N.47°35'W.
 Included angles of triangle "ABC" are 28°04', 90°00' and 61°56', the sum of which is 180°00'.
 Included angles of triangle "BCD" are 90°00', 47°44', and 42°16', the sum of which is 180°00'.
 Triangulated dist. on random Tp. bdy. from "A" to "B" is obtained by
 Tang. 61°56' x base, or 1.87546 x 35.37 = 66.33 chs., which added to 213.93 chs. gives 280.26 chs. N.89°51'W. from $\frac{1}{4}$ sec.cor. of secs. 1 and 36 for position of point "B."
 Triangulated dist. on random Tp. bdy. from "B" to "D" is obtained by
 Tang. 47°44' x base or 1.10027 x 35.38 = 38.92 chs., which added to 280.26 chs. gives 319.18 chs. N.89°51'W. from $\frac{1}{4}$ sec.cor. of secs. 1 and 36 for position of point "D."
 Flag point "B" of above described triangulation.
 Flag point "D" of above described triangulation.
 Continue line and measurement by chaining.
 Set temp. $\frac{1}{4}$ sec.cor. of secs. 5 and 32.
 Set temp.cor. of secs. 5, 6, 31 and 32.
 Set temp. $\frac{1}{4}$ sec.cor. of secs. 6 and 31.
 (479.40 chs. westing from cor. of T. 31 & 32, N., R. 5 & 6 W.)
 Fall 13 lks. S. of the cor. of T. 31 and 32 N., R. 6 and 7 W., hereinbefore described.
 True course of Tp. line back to $\frac{1}{4}$ sec.cor. of secs. 1 and 36 is therefore S.89°50'E.
 From cor. of T. 31 and 32 N., R. 6 and 7 W., S.89°50'E., on a true line, bet. secs. 6 and 31.
 Over rolling land, thru. scattering timber and undergrowth, descending 80 ft., over NE. slope, to
 Draw, course NE. Asc. 55 ft., over NW. slope.
 Descend 80 ft., over NE. slope.
 Draw, course NE. Asc. 30 ft., over NW. slope, to
 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap,

280.26
 319.18
 320.00
 360.00
 400.00
 439.40

14.50
 22.50
 34.00
 39.40

1 S 31
 S 6
 1920

from which,
 A cedar, 12 ins. in diam., brs. S.64°W., 73 lks. dist., mkd. S 6 BT.
 A pine, 10 ins. in diam., brs. N.51 $\frac{1}{2}$ °W., 102 lks. dist., mkd. S 31 BT.
 Continue, over rolling land, thru. scattering timber and undergrowth. Desc. 35 ft., over NE. slope.
 Draw, course NE. Descend 15 ft. over NE. slope.
 Outcrop of mineral bearing rock.
 Shallow wash, course NE.
 Shallow wash, course NW.
 Enter shallow wash, course W. Ascend 20 ft. in said wash, to
 Leave wash, course W. from SE. Enter dense timber, brs. N. and S. Asc. 30 ft., over NW. slope.
 Descend 55 ft., over SE. slope.
 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for cor. of secs. 5, 6, 31 and 32, marked on brass cap,

44.30
 48.00
 49.50
 51.00
 52.00
 57.50
 67.30
 79.40

T32N | R6 W
 S31 | S32
 S 6 | S 5
 T31N
 1920

from which,

10 Part(completion)of North bdy.of T.31 N., R. 6 W.

Chains.

- A cedar, 10 ins. in diam., brs. N. 21 1/2° E., 59 lks.
dist., mkd. T32N R6W S32 BT.
- A cedar, 12 ins. in diam., brs. S. 87° E., 23 lks.
dist., mkd. T31N R6W S5 BT.
- A pine, 10 ins. in diam., brs. S. 53 1/4° W., 52 lks.
dist., mkd. T31N R6W S6 BT.
- A pine, 10 ins. in diam., brs. N. 52 1/2° W., 123 lks.
dist., mkd. T32N R6W S31 BT.

Land, rolling.
Soil, gravelly and rocky, 3rd and 4th rate.
Timber, cedar and pine, scattering and dense as noted.
Undergrowth, scattering sage brush, scrub cedar and Spanish bayonet.
Poor grass.

- S. 89° 50' E., on a true line, bet. secs. 5 and 32.
Over rolling land, thru. scattering timber and undergrowth.
Descend 130 ft., over SE. slope.
- 18.60 Draw, course SE. Thence along foot of S. slope.
- 21.60 Draw, course NE. Asc. 55 ft., over NW. slope.
- 31.00 Spur, slopes N. from SW. Descend 45 ft., over E. slope, to
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in
the ground, for 1/4 sec. cor., marked on brass cap,

S 32
S 5
1920

- from which,
- A pine, 12 ins. in diam., brs. N. 48 3/4° W., 104 lks.
dist., mkd. T32N R6W S32 BT.
- A pine, 10 ins. in diam., brs. S. 75° W., 223 lks.
dist., mkd. T31N R6W S5 BT.

- Leave rolling, and enter mountainous land, continuing
thru. scattering timber and undergrowth.
- 40.82 Triangulation point at W. rim of National Canyon, brs.
NE. and SW. Thence across said canyon.
Descend 1280 ft., over abrupt cliffs, facing SE. Triangu-
lated measurement as hereinbefore described to
- 79.74 Triangulation point. Continue line and measurement
chaining to
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 12 ins. in
the ground, to bed rock, supported in a mound of
stone, for cor. of secs. 4, 5, 32 and 33, marked on brass
cap,

T32N | R6W
S32 | S33

S 5 | S 4
T31N
1920

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

Land, rolling and mountainous.
Soil, rocky, 4th rate.
Timber, scattering cedar and pine.
Undergrowth, scattering sage brush, scrub cedar and Span-
ish bayonet.
Poor grass.

- S. 89° 50' E., on a true line, bet. secs. 4 and 33.
Over mountainous land, in National Canyon, thru. scattering
undergrowth.
- 18.00 Desc. 155 ft., over E. slope on W. wall of said canyon.
wash, in bottom of National Canyon, 2 chs. wide, course N.
Ascend over W. slope.
- 35.00 Over red sandstone slide.
- 39.00 Wash, course NW.

Chains.

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

$\frac{1}{4}$ S 33
S 4
1920

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

A limestone rock, 30x25x20 ft., brs. SE. 100 lks. dist. Continue over mountainous land, on E. wall of National Canyon, thru. scattering undergrowth.

Ascend 1350 ft. over abrupt W. slope. Measurement by triangulation hereinbefore described.

66.07 Triangulation point at E. rim of National Canyon, brs. N. and S. Leave said canyon. Continue line and measurement by chaining.

Leave mountainous, and enter gently rolling land, and scattering timber.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground for cor. of secs. 3, 4, 33 and 34, marked on brass cap,

T32N | Row
S33 | S34
S 4 | S 3
T31N
1920

from which,

A cedar, 14 ins. in diam., brs. N. 44° E., 240 lks. dist., mkd. T32N Row S34 BT.

A cedar, 14 ins. in diam., brs. S. 64 $\frac{1}{2}$ ° E., 179 lks. dist., mkd. T31N Row S3 BT.

A pine, 14 ins. in diam., brs. S. 53° W., 74 lks. dist., mkd. T31N Row S4 BT.

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

Land, W. 60 chs. mountainous; remainder, gently rolling, nearly level.

Soil, rocky, 4th rate.

Timber, scattering cedar and pine in E. 14 chs. only.

Undergrowth, scattering scrub cedar, sagebrush and yucca.

Poor grass.

S. 89° 50' E., on a true line, bet. secs. 3 and 34.

Over gently rolling land, thru. scattering timber and undergrowth. Asc. very gradually over SW. slope, to

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

$\frac{1}{4}$ S 34
S 3
1920

and dig pits 18x18x12 ins. on line E. and W. of cor., 3 ft. dist.

Continue over gently rolling land, thru. scattering timber and undergrowth. Desc. 30 ft., over SE. slope.

48.00 Shallow draw, course S, thence over S. slope, with slight change in elevation.

63.00 Draw, course S. Continue over S. slope. Leave timber.

75.00 Descend gradually over E. slope, to

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 10 ins. in the ground to bed rock, supported in a mound of stone, for cor. of secs. 2, 3, 34 and 35, marked on brass cap,

12 Part (completion) of North bdy. of T. 31 N. R. 6 W.

Chains.

T32N R6 W
S34 S35
S31 S2
T31N
1920

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

Land, rolling.

Soil, rocky, 4th rate.

Timber, scattering cedar and pine.

Undergrowth, scattering scrub cedar, sagebrush and yucca.

Poor grass.

8.00
12.80
15.00
27.50
29.00
40.00

S. 89° 50' E., on a true line, bet. secs. 2 and 35
Over gently rolling land, thru. scattering undergrowth.
Descend slightly over E. slope.
Draw, course N. Thence over N. slope with slight change in elevation.
Draw, course NW. Ascend slightly over NW. slope.
Outcropping edge of rock. Thence over N. slope, descending slightly to
Draw, course NE.
Wash, course N. Asc. 60 ft., over NW. slope, to
Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in the ground, to bed rock, supported in a mound of stone, for 1/4 sec. cor., marked on brass cap,

1/4 S 35
S 2
1920

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

Continue over gently rolling land, thru. scattering undergrowth. Asc. very gradually over W. slope.

60.00
72.00
80.00

Thence over N. slope, with slight change in elevation.
Enter scattering timber.
Set an iron post, 3 ft. long, 2 ins. in diam., on surface rock, supported in a mound of stone, for cor. of secs. 1, 2, 35 and 36, marked on brass cap,

T32N R 6W
S35 S36
S2 S1
T31N
1920

from which,

- A pine, 12 ins. in diam., brs. N. 39° E., 190 lks. dist. mkd. "T32N R6W S36 BT."
- A pine, 10 ins. in diam., brs. S. 51 1/2° E., 117 lks. dist. mkd. "T31N R6W S1 BT."
- A cedar, 16 ins. in diam., brs. S. 52 1/2° W., 183 lks. dist. mkd. "T31N R6W S2 BT."
- A pine, 24 ins. in diam., brs. N. 40 1/2° W., 93 lks. dist. mkd. "T32N R6W S35 BT."

Land, gently rolling.

Soil, gravelly and rocky, 3rd rate.

Timber, scattering cedar and pine in E. 8 chs. only.

Undergrowth, scattering scrub cedar and sage brush.

Fair grass.

25.00
40.00

S. 89° 50' E., on a true line, bet. secs. 1 and 36 (W. 1/2).
Over gently rolling land, thru. scattering timber and undergrowth. Desc. slightly over N. slope to 1/4 sec. cor.
Leave timber, brs. N. and S.
Intersect the 1/4 sec. cor. of secs. 1 and 36, here in before described.

Part (completion) of North bdy. of T. 31 N., R. 6 W. 13.

Chains.

Land, gently rolling.
 Soil, gravelly and rocky, 3rd rate.
 Timber, scattering cedar and pine.
 Undergrowth, scattering scrub cedar and sagebrush.
 Fair grass.

Boundaries of that part of T. 31 N., R. 6 W., subdivided under this group (within Hualpai Indian Reservation).

Latitudes, departures, and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South boundary,	West, N. 89° 51' W.	5.32 439.04	1.15			5.32 439.64
West boundary,	North,	480.00	480.00			
North boundary,	S. 89° 50' E. East,	439.40 5.43		1.28	439.40 5.43	
Boundary of Hualpai Indian Reservation,	S. 0° 4' E.	58.22		58.22	.07	
	S. 0° 3' W.	40.12		40.12		.04
	S. 0° 3' E.	40.11		40.11	.04	
	S. 0° 7' W.	80.27		80.27		.16
	South,	40.12		40.12		.08
	S. 0° 7' W.	40.12		40.12		.08
	S. 0° 4' E.	40.15		40.15	.05	
	S. 0° 2' W.	40.14		40.14		.02
	S. 0° 2' E.	40.14		40.14	.02	
S. 0° 3' W.	60.54		60.54		.09	
Convergency,					.48	
Totals,			481.15	481.21	445.49	445.31
				481.15	445.31	
Error in latitude,			0.06			
Error in departure,					0.18	

14 Survey of part(completion)of Subdivision lines of T.31 N.R.6 W.

Chains.

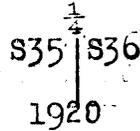
From the cor.of secs. 1,2,35 and 36, on S. bdy.of Tp., described in Book "D,"

N.0°01'W.,bet.secs.35 and 36.

Over gently rolling land,thru.scattering timber and undergrowth, along E.slope,with slight change in elevation.

11.00 Draw, course SE.

40.00 Set an iron post, 3 ft.long, 1 in. in diam.,10 ins.in the ground,to bed rock, supported in a mound of stone,for 1/4 sec.cor., marked on brass cap,



from which,

A pine,20 ins. in diam.,brs.N.02 1/2°E., 448 lks. dist.,mkd. 1/4 S 36 BT.

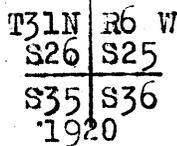
A pine,8 ins. in diam.,brs.S.31 1/2°W.,122 lks. dist.,mkd. 1/4 S 35 BT.

Continue over gently rolling land,thru.scattering timber and undergrowth, along E.slope, ascending very gradually.

42.50 Draw, course SE.

60.00 Thence over nearly level NE.slope, descending slightly to

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



from which,

A cedar,8 ins.in diam.;brs.N:82 3/4°E.,637 lks. dist.,mkd. T31N ROW S25 BT.

A cedar,8 ins.in diam.;brs.S:71 1/2°E.,533 lks. dist.,mkd. T31N ROW S36 BT.

A cedar,8 ins.in diam.;brs.N:02 1/2°W.,344 lks. dist.,mkd. T31N ROW S26 BT.

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

Land,gently rolling, and nearly level.

Soil,gravelly and rocky, 3rd rate.

Timber, scattering cedar and pine.

Undergrowth, scattering scrub cedar and sage brush.

Fair grass.

The subdivision lines of that portion of T.31 N.,R.6 W. situated outside the Hualpai Indian Reservation were surveyed in March, 1917, by William H.Thorn, U.S.S., who surveyed the lines W.from the sec.cors.on the E. bdy. of the Tp., and established closing corners at the points of intersection on the boundary of the Reservation.

The following notes describe the survey of the completion of the latitudinal section lines of the East range of sections, beginning at the closing cors.on the H.I.R. boundary.

The closing cor.of that portion of the E.half of secs.25 and 36, situated outside the H.I.R. is an iron post, 2 ins. in diam., projecting 12 ins. above ground, firmly set. properly marked on brass cap, and witnessed by two properly marked bearing trees, a dead cedar N.78°E., 57 lks.dist., and a dead cedar,S.81°

Chains.

13 lks. dist.
 This closing cor. is of record as being established on the
 H.I.R. boundary at 34.65 chs. W. from cor. of secs. 25, 30,
 31 and 36 on the E. bdy. of the Tp.
 Change the marking on the brass cap, to read:

		T31N	
S25	BT	S25	CO
S36	BT	S36	
		ROW	
		1917	

This closing cor. now refers to areas on both sides of the
 Reservation bdy.
 Thence,

West, on random line, between those portions of secs. 25
 and 36, situated inside the Hualpai Indian Reservation.
 5.35 (40.00 chs. W. from cor. of secs. 25, 30, 31 and 36 on E. bdy. of
 Tp.) Set temp. $\frac{1}{4}$ sec. cor.
 45.49 (80.14 chs. W. from cor. of secs. 25, 30, 31 and 36 on E. bdy. of
 Tp.) Fall 7 lks. S. of the cor. of secs. 25, 26, 35 and 36.
 True course and length of sec. line back to point for $\frac{1}{4}$
 sec. cor. are therefore N. 89° 54' E., 40.07 chs.
 From cor. of secs. 25, 26, 35 and 36,
 S. 89° 54' E., on true line, bet. secs. 25 and 36 (W. $\frac{1}{2}$).
 Over nearly level land, thru. scattering timber and under-
 growth.

40.07 Descend very gradually over NE. slope.
 (Midpoint of line bet. secs. 25 and 36, due West of C.C.),
 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in
 the ground to bed rock, supported in a mound of stone,
 for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S	S 25
	S 36
	1920

from which,
 A cedar, 6 ins. in diam., brs. N. 45° E., 115 lks.
 dist., mdk. $\frac{1}{4}$ S 25 BT.
 A cedar, 4 ins. in diam., brs. S. 45 $\frac{1}{2}$ ° W., 473 lks.
 dist., mdk. $\frac{1}{4}$ S 36 BT.

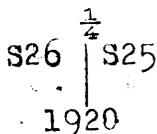
Thence,
 East, on a true line, between those parts of E. $\frac{1}{2}$ of secs.
 25 and 36, situated inside the Hualpai Indian Reserva-
 tion.

Over nearly level land, thru. scattering timber and under-
 growth.
 Descend slightly over NE. slope, to
 5.42 Intersect the closing cor. of secs. 25 and 36, on the boundary
 of the Hualpai Indian Reservation, hereinbefore describ-
 ed.
 Land, nearly level.
 Soil, gravelly and rocky, 3rd rate.
 Timber, scattering cedar.
 Undergrowth, scattering scrub cedar and sage brush.
 Fair grass.

N. 0° 01' W., bet. secs. 25 and 26.
 Over nearly level land, thru. scattering timber and under-
 growth.
 Descend very gradually over NE. slope.
 33.50 Sink, 100 ft. wide, 8 ft. deep.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in
 the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

16 Part(completion)of Subdivision lines of T.31 N.,R. 6 W.

Chains.



from which,

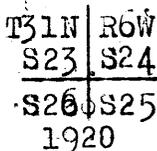
- A cedar, 6 ins. in diam., brs. S. 61 $\frac{1}{2}$ ° E., 173 lks.
dist., mkd. S 25 BT.
- A cedar, 8 ins. in diam., brs. N. 45 $\frac{1}{2}$ ° W., 212 lks.
dist., mkd. S 26 BT.

Continue over nearly level land, thru. scattering timber and undergrowth.

Descend very gradually over NE. slope.

80.00

Set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in the ground, for cor. of secs. 23, 24, 25 and 26, marked on brass cap,



from which,

- A cedar, 10 ins. in diam., brs. N. 38° E., 327 lks.
dist., mkd. T31N R6W S24 BT.
- A cedar, 6 ins. in diam., brs. S. 33 $\frac{1}{2}$ ° E., 167 lks.
dist., mkd. T31N R6W S25 BT.

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

Land, nearly level.

Soil, gravelly and rocky, 3rd and 4th rate.

Timber, scattering cedar.

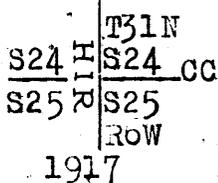
Undergrowth, scattering scrub cedar and sage brush.

Fair grass.

The closing cor. of those portions of secs. 24 and 25, situated outside the Hualpai Indian Reservation is an iron post, 2 ins. in diam., projecting 12 ins. above ground, firmly set, properly marked on brass cap, and witnessed by two properly marked bearing trees, a cedar N. 41 $\frac{1}{2}$ ° E., 500 lks. dist., and a cedar S. 51 $\frac{1}{2}$ ° E., 175 lks. dist.

This closing cor. is of record as being established on the H. I. R. bdy. at 34.68 chs. W. from the cor. of secs. 19, 24, 25 and 30, on the E. bdy. of the Tp.

Change the marking on the brass cap to read:



This closing cor. now refers to areas on both sides of the Reservation Bdy.

Thence,

West, on random line, between those portions of secs. 24 and 25 situated inside the Hualpai Indian Reservation.

5.32

(40.00 chs. W. from cor. of secs. 19, 24, 25, and 30, on E. bdy. of Tp.)

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

45.48

(80.16 chs. W. from cor. of secs. 19, 24, 25 and 30, on E. bdy. of Tp.) Fall 20 lks. S. of the cor. of secs. 23, 24, 25 and 26,

True course and length of sec. line back to point for $\frac{1}{4}$ sec. cor. are therefore S. 89° 43' E., 40.08 chs.

From cor. of secs. 23, 24, 25 and 26,

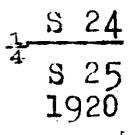
S. 89° 43' E., on true line, bet. secs. 24 and 25 (W. $\frac{1}{2}$).

Over nearly level land, thru. scattering timber and undergrowth.

Chains.

40.08

Descend very gradually over NE slope.
(Midpoint of line bet. secs. 24 and 25, due West of C.C.),
Set an iron post 3 ft. long, 1 in. in diam., 10 ins. in the
ground to bedrock, supported in a mound of stone, for
1/4 sec. cor., marked on brass cap,



from which,
A cedar, 6 ins. in diam., brs. S. 38° W., 133 lks.
dist., mkd. 1/4 S 25 BT.
A cedar, 8 ins. in diam., brs. N. 61 1/2° W., 91 lks.
dist., mkd. 1/4 S 24 BT.

Thence,
East, on a true line, between those parts of 1/2 of secs.
24 and 25, situated inside the Hualpai Indian Reserva-
tion.

Over nearly level land, thru. scattering timber and under-
growth.

5.40

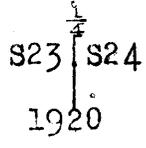
Descend very gradually over NE slope.
Intersect the closing cor. of secs. 24 and 25, on the
bdy. of the Hualpai Indian Reservation, here in before
described.

Land, nearly level.
Soil, gravelly and rocky, 3rd rate.
Timber, scattering cedar.
Undergrowth, scattering scrub cedar and sagebrush.
Fair grass.

40.00

N. 0° 01' W., bet. secs. 23 and 24.
Over nearly level land, thru. scattering timber and under-
growth, descending very gradually over NE slope.

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

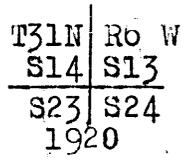


from which,
A cedar, 6 ins. in diam., brs. S. 63 1/2° E., 94 lks.
dist., mkd. 1/4 S 24 BT.
A cedar, 6 ins. in diam., brs. N. 32° W., 207 lks.
dist., mkd. 1/4 S 25 BT.

Continue over nearly level land, thru. scattering timber
and undergrowth, descending very gradually over NW.
slope.

80.00

S. edge of shallow draw, course NE. Set an iron post, 3 ft.
long, 2 ins. in diam., on surface rock, supported in a
mound of stone, for cor. of secs. 13, 14, 23 and 24, marked
on brass cap,



from which,
A cedar, 6 ins. in diam., brs. S. 57 1/2° E., 507 lks.
dist., mkd. T31N R6W S24 BT.

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

Land, nearly level.
Soil, gravelly and rocky, 3rd rate.

18 Part (completion) of Subdivision lines of T.31 N., R.6 W.

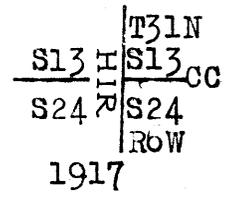
Chains.

Timber, scattering cedar.
Undergrowth, scattering scrub cedar and sagebrush.
Fair grass.

The closing cor. of those portions of secs. 13 and 24, situated outside the Hualpai Indian Reservation is an iron post, 2 ins. in diam., projecting 12 ins. above ground, firmly set, properly marked on brass cap, and witnessed by one properly marked bearing tree, a cedar N.87°E., 175 lks. dist., and 3 pits, one each N., S. and E. of cor.

This closing cor. is of record as being established on the H.I.R. bdy. at 34.60 chs. W. from cor. of secs. 13, 18, 19 and 24 on the E. bdy. of the Tp.

Change the marking on the brass cap to read:



This closing cor. now refers to areas on both sides of the reservation bdy.

Thence,

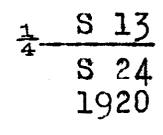
5.40 West, on a random line, bet. those portions of secs. 13 and 24, situated inside the Hualpai Indian Reservation. (40.00 chs. W. from cor. of secs. 13, 18, 19 and 24 on E. bdy. of Tp.)

45.60 Set temp. 1/4 sec. cor. (80.20 chs. W. from cor. of secs. 13, 18, 19 and 24 on E. bdy. of Tp.)

Fall 12 lks. S. of the cor. of secs. 13, 14, 23 and 24. True course and length of sec. line back to point for 1/4 sec. cor. are therefore S.89°50'E., 40.10 chs.

15.00 From cor. of secs. 13, 14, 23 and 24, S.89°50'E., on true line, bet. secs. 13 and 24 (W. 1/2). Over nearly level land, thru. scattering timber and undergrowth. Descend slightly over N. slope, to

40.10 Shallow draw, course SE. Ascend slightly over SW. slope, to (Midpoint of line bet. secs. 13 and 24, due West of C.C.) Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in the ground to bedrock, supported in a mound of stone, for 1/4 sec. cor., marked on brass cap,



from which,

A cedar, 6 ins. in diam., brs. S.20 1/2°W., 420 lks. dist., mkd. 1/4 S 24 BT.

A cedar, 6 ins. in diam., brs. N.30 1/2°W., 403 lks. dist., mkd. 1/4 S 13 BT.

Thence,

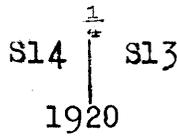
5.50 East, on a true line, bet. those parts of E. 1/2 of secs. 13 and 24, situated inside the Hualpai Indian Reservation. Over nearly level land, thru. scattering timber and undergrowth, along S. slope, with slight change in elevation. Intersect the closing cor. of secs. 13 and 24 on the boundary of the Hualpai Indian Reservation, hereinbefore described.

Land, nearly level.
Soil, sandy and gravelly clay, 2nd rate.
Timber, scattering cedar.
Undergrowth, scattering sage brush. Fair grass.

Part (completion) of Subdivision lines of T.31 N., R.6 W. 19

Chains.

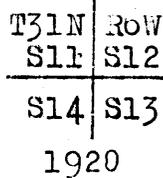
40.00 N.0°01'W., bet. secs.13 and 14.
 Over nearly level land, thru. scattering undergrowth.
 Descend very gradually over NE.slope.
 Set an iron post, 3 ft.-long, 1 in. in diam., 14 ins. in
 the ground to bed rock, supported in a mound of stone,
 for $\frac{1}{4}$ sec.cor., marked on brass cap,



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

Continue over nearly level land; thru. scattering undergrowth. Descend very gradually over NE.slope.

63.00 Artificial tank, brs.E. 8 chs.dist.
 80.00 Set an iron post, 3 ft.long, 2 ins. in diam., 20 ins. in
 the ground, for cor.of secs. 11,12,13 and 14, marked
 on brass cap,

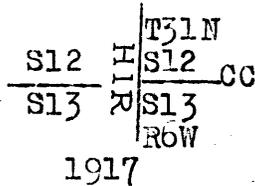


and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft.high, W. of cor.

Land, nearly level.
 Soil, gravelly and rocky, 3rd rate.
 Timber, none.
 Undergrowth, scattering sage brush.
 Fair grass.

The closing cor. of those portions of secs.12 and 13, situated outside the Hualpai Indian Reservation is an iron post, 2 ins. in diam., projecting 12 ins. above ground, firmly set, properly marked on brass cap, and witnessed by 3 pits, one each N., S. and E. of cor.

No bearing trees.
 This closing cor. is of record as being established on the H.I.R. boundary at 34.43 chs.W. from the cor. of secs.7,12,13 and 18, on the E.bdy. of the Tp.
 Change the marking on the brass cap to read:



This closing cor. now refers to areas on both sides of the Reservation Boundary.

Thence,
 West, on random line, between those portions of secs.12 and 13, situated inside the Hualpai Indian Reservation.
 5.57 (40.00 chs.W. from cor. of secs.7,12,13 and 18 on E.bdy. of Tp.)

45.79 Set temp. $\frac{1}{4}$ sec.cor.
 (80.22 chs.W. from cor. of secs.7,12,13 and 18 on E.bdy. of Tp.) Fall 23 lks.S. of the cor. of secs.11,12,13 and 14.

True course and length of sec.line back to point for $\frac{1}{4}$ sec.cor. are therefore S.89°40'E., 40.11 chs.
 From cor. of secs.11,12,13 and 14,
 S.89°40'E., on true line, bet. secs.12 and 13 (W. $\frac{1}{2}$).

20 Part (completion) of subdivision lines of T31 N., R. 6 W.

Chains.

- Over nearly level land, thru. scattering undergrowth.
Ascend very gradually over W. slope.
- 35.00 Top of ascent, brs. N. and S. Enter very scattering timber.
Descend very gradually over E. slope.
- 40.11 (Midpoint of line bet. secs. 12 and 13, due West of C.C.),
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground for $\frac{1}{4}$ sec. cor., marked on brass cap,

$$\begin{array}{c} \frac{1}{4} \text{ S } 12 \\ \text{S } 13 \\ 1920 \end{array}$$

from which,

A cedar, 8 ins. in diam., brs. S. $32\frac{1}{2}^\circ$ W., 390 lks.dist., mkd. $\frac{1}{4}$ S 13 BT.A cedar, 6 ins. in diam., brs. N. $70\frac{1}{2}^\circ$ W., 233 lks.dist., mkd. $\frac{1}{4}$ S 12 BT.

Thence,

East, on true line, bet. those parts of E. $\frac{1}{2}$ of secs. 12 and
13, situated inside the Hualpai Indian Reservation.Over nearly level land, thru. very scattering timber and
undergrowth.

Descend slightly, over E. slope, to

- 5.68 Intersect the closing cor. of secs. 12 and 13 on the bdy.
of the Hualpai Indian Reservation, hereinbefore de-
scribed.

Land, nearly level.

Soil, sandy and gravelly, 2nd and 3rd rate.

Timber, very scattering cedar where noted.

Undergrowth, scattering sage brush and algerita.

Fair grass.

N. $0^\circ 01'$ W., bet. secs. 11 and 12.Over gently rolling land, thru. scattering undergrowth,
along W. slope, with slight change in elevation.

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

$$\begin{array}{c} \frac{1}{4} \\ \text{S } 11 \text{ | } \text{S } 12 \\ 1920 \end{array}$$
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of
cor.Continue over gently rolling land, thru. scattering under-
growth.

Descend very gradually over NW. slope.

- 67.00 Shallow draw, course NW. Ascend very gradually over SW.
slope, to

- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in
the ground, for cor. of secs. 1, 2, 11 and 12, marked
on brass cap,

$$\begin{array}{c} \text{T31N | R6 W} \\ \text{S } 2 \text{ | } \text{S } 1 \\ \text{S } 11 \text{ | } \text{S } 12 \\ 1920 \end{array}$$
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of
cor.

Land, gently rolling.

Soil, gravelly and rocky, 3rd rate.

Timber, none.

Undergrowth, scattering sage brush. Fair grass.

FROM 1001

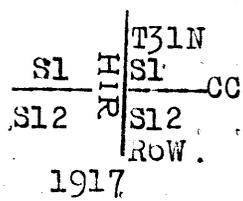
Part (completion) of Subdivision lines of T. 31 N. R. 6 W. 21

Chains.

The closing cor. of those portions of secs. 1 and 12, situated outside the Hualpai Indian Reservation is an iron post, 2 ins. in diam., projecting 12 ins. above ground, firmly set, properly marked on brass cap, and witnessed by three pits, one each N., S. and E. of cor. No bearing trees.

This closing cor. is of record as being established on the H.I.R. Bdy. at 34.40 chs. W. from cor. of secs. 1, 6, 7 and 12, on the E. bdy. of the Tp.

Change the marking on the brass cap to read:



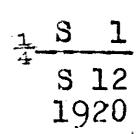
This closing cor. now refers to areas on both sides of the Reservation boundary.

Thence,

5.54 West, on random line, between those portions of secs. 1 and 12, situated inside the Hualpai Indian Reservation. (40.00 chs. W. from cor. of secs. 1, 6, 7 and 12 on E. bdy. of Tp.)

45.72 Set temp. 1/4 sec. cor. (80.18 chs. W. from cor. of secs. 1, 6, 7 and 12, on E. bdy. of Tp.) Fall 24 lks. S. of the cor. of secs. 1, 2, 11 and 12. True course and length of sec. line back to point for 1/4 sec. cor. are therefore S. 89° 39' E., 40.09 chs.

40.09 From cor. of secs. 1, 2, 11 and 12, S. 89° 39' E., on true line, bet. secs. 1 and 12 (W. 1/2). Over nearly level land, thru. scattering undergrowth, along S. slope, ascending slightly to (Midpoint of line, bet. secs. 1 and 12, due west of C.C.), Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap,



and dig pits, 10x18x12 ins., one each E. and W. of cor. 3 ft. dist.

Thence,

5.63 East, on true line, between those parts of E. 1/2 of secs. 1 and 12, situated inside the Hualpai Indian Reservation. Over nearly level land, thru. scattering undergrowth, along S. slope, with slight change in elevation. Intersect the closing cor. of secs. 1 and 12 on the boundary of the Hualpai Indian Reservation, hereinbefore described.

Land, nearly level.

Soil, sandy and gravelly, 2nd and 3rd rate.

Timber, none.

Undergrowth, scattering sage brush and algerita.

Fair grass.

40.00 N. 0° 01' W., on a random line, bet. secs. 1 and 2. Set temp. 1/4 sec. cor.

79.86 Fall 19 lks. W. of the cor. of secs. 1, 2, 35 and 36, on N. bdy. of Tp., hereinbefore described.

Thence,

S. 0° 07' W., on a true line, bet. secs. 1 and 2.

Over gently rolling land, thru. scattering timber and undergrowth, along W. slope, with slight change in elevation.

20.00 Leave timber.

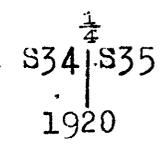
30.00 Shallow draw, course NW. Ascend very gradually over NW slope, to

22 Part (completion) of Subdivision lines of T.31 N., R.6 W.

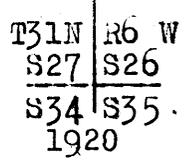
Chains.
 39.86 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$$\begin{array}{c} \frac{1}{4} \\ S\ 2\ \frac{1}{4}\ S\ 1 \\ 1920 \end{array}$$
 and dig pits 18x18x12 ins., one each N. and S. of cor., 3 ft. dist.
 Continue over gently rolling land, thru. scattering undergrowth. Ascend very gradually over N. slope.
 73.80 Top of ascent, brs. E. and W. Descend gradually over S. slope, to
 79.86 The cor. of secs. 1, 2, 11 and 12.
 Land, gently rolling.
 Soil, sandy and gravelly, 2nd and 3rd rate.
 Timber, scattering cedar and pine in N. 20 chs. only.
 Undergrowth, scattering sage brush.
 Fair grass.

From the cor. of secs. 2, 3, 34 and 35, on S. bdy. of Tp.; described in Book "D,"
 N. 0° 01' W., bet. secs. 34 and 35.
 Over gently rolling land, thru. scattering timber and undergrowth, along W. slope, with slight change in elevation.
 23.00 Drain, course SW. Ascend slightly over SE. slope, to
 35.00 Descend very gradually, over NE. slope, to
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,



from which,
 A cedar, 8 ins. in diam., brs. S. 20 $\frac{1}{2}$ ° E., 114 lks.
 dist., mkd. $\frac{1}{4}$ S 35 BT.
 A cedar, 8 ins. in diam., brs. N. 68° W., 36 lks.
 dist., mkd. $\frac{1}{4}$ S 34 BT.
 Continue over gently rolling land, thru. scattering timber and undergrowth. Descend slightly over NE. slope, to
 60.00 Thence over E. slope, ascending very gradually to
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for cor. of secs. 26, 27, 34 and 35, marked on brass cap,

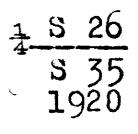


from which,
 A cedar, 12 ins. in diam., brs. N. 53° E., 182 lks.
 dist., mkd. T31N Row S26 BT.
 A cedar, 10 ins. in diam., brs. S. 29° E., 203 lks.
 dist., mkd. T31N Row S35 BT.
 A pine, 14 ins. in diam., brs. S. 6° W., 372 lks.
 dist., mkd. T31N Row S34 BT.
 A pine, 8 ins. in diam., brs. N. 42° W., 642 lks.
 dist., mkd. T31N Row S27 BT.
 Land, gently rolling.
 Soil, gravelly clay, 2nd rate.
 Timber, scattering cedar.
 Undergrowth, scattering scrub cedar and sage brush.
 Fair grass.

Book 100

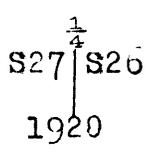
Part (completion) of Subdivision lines of T. 31 N., R. 6 W. 23

Chains.
 40.00 S. 89° 51' E., on a random line, bet. secs. 25 and 35.
 79.96 Set temp. $\frac{1}{4}$ sec. cor.
 Intersect the cor. of secs. 25, 26, 35 and 36.
 Thence,
 N. 89° 51' W., on a true line, bet. secs. 26 and 35.
 Over nearly level land, thru scattering timber and undergrowth, along NE. slope, with slight change in elevation.
 25.00 Shallow draw, course N.E. Ascend slightly over E. slope, to
 39.98 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

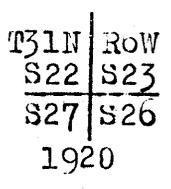


from which,
 A wild rose, 6 ins. in diam., brs. N. 0° 30' W., 62 lks. dist., marked $\frac{1}{4}$ S 26 BT.
 A cedar, 6 ins. in diam., brs. S. 27° W., 194 lks. dist., marked $\frac{1}{4}$ S 35 BT.
 Continue over nearly level land, thru scattering timber and undergrowth, ascending slightly over E. slope.
 79.96 The cor. of secs. 26, 27, 34 and 35.
 Land, nearly level.
 Soil, gravelly, 3rd rate.
 Timber, scattering cedar.
 Undergrowth, scattering sage brush.
 Fair grass.

N. 0° 01' W., bet. secs. 26 and 27.
 Over nearly level land, thru scattering timber and undergrowth, along E. slope, with slight change in elevation.
 10.00 Leave timber.
 35.00 Enter scattering timber, brs. E. and W.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 20 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,



from which,
 A cedar, 18 ins. in diam., brs. N. 27 $\frac{1}{2}$ ° E., 192 lks. dist., marked $\frac{1}{4}$ S 26 BT.
 A cedar, 16 ins. in diam., brs. N. 24 $\frac{3}{4}$ ° W., 324 lks. dist., marked $\frac{1}{4}$ S 27 BT.
 Continue over nearly level land, thru scattering timber and undergrowth, along E. slope, with slight change in elevation.
 60.00 Leave timber, brs. NE. and SW.
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 22, 23, 26 and 27, marked on brass cap,



and dig pits, 18x18x12 ins., one each NE., SE., SW. and NW. of cor. 3 ft. dist.
 Land, nearly level.
 Soil, sandy and gravelly, 1st and 2nd rate.
 Timber, scattering cedar where noted.
 Undergrowth, scattering sage brush.
 Good grass.

24 Part (completion) of Subdivision lines of T. 31 N., R. 6 W.

Chains.

40.00 S. 89° 51' E., on a random line, bet. secs. 23 and 26.
 Set temp. $\frac{1}{4}$ sec. cor.
 79.92 Fall 25 lks. S. of the cor. of secs. 23, 24, 25 and 26.
 Thence,
 S. 89° 58' W., on a true line, bet. secs. 23 and 26.
 Over nearly level land, thru. scattering undergrowth, ascending very gradually over E. slope.
 35.00 Enter scattering timber, brs. N. and S.
 39.90 Set an iron post, 3 ft. long, 1 in. in diam., 17 ins. in the ground, to bed rock, supported in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 23
 S 26
 1920

from which,

A cedar, 32 ins. in diam., brs. S. 30 $\frac{3}{4}$ ° W., 320 lks.
 dist., mkd. $\frac{1}{4}$ S 26 BT.

A pine, 16 ins. in diam., brs. N. 53 $\frac{1}{4}$ ° W., 171 lks.
 dist., mkd. $\frac{1}{4}$ S 23 BT.

Continue over nearly level land, thru. scattering timber and undergrowth, ascending very gradually over E. slope.

55.00 Leave timber, brs. NE. and SW.
 79.92 The cor. of secs. 22, 23, 26 and 27.

Land, nearly level.
 Soil, sandy and gravelly, 1st and 2nd rate.
 Timber, scattering cedar and pine, where noted.
 Undergrowth, scattering scrub cedar and sage brush.
 Good grass.

N. 0° 01' W., bet. secs. 22 and 23.

Over nearly level land, thru. scattering undergrowth, along E. slope, with slight change in elevation.

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

$\frac{1}{4}$
 S 22 | S 23
 1920

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

Continue over nearly level land, thru. scattering undergrowth, descending slightly over N. slope.

70.00 Enter scattering timber, brs. NE. and SW.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, marked on brass cap,

T31N | R6 W
 S15 | S14
 S22 | S23
 1920

from which,

A cedar, 6 ins. in diam., brs. S. 37° E., 196 lks.
 dist., mkd. T31N R6W S23 BT.

A cedar, 18 ins. in diam., brs. S. 18 $\frac{1}{2}$ ° W., 601 lks.
 dist., mkd. T31N R6W S22 BT.

A cedar, 13 ins. in diam., brs. N. 05 $\frac{1}{4}$ ° W., 369 lks.
 dist., mkd. T31N R6W S15 BT.

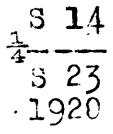
and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Land, nearly level.
 Soil, sandy and gravelly loam, 1st and 2nd rate.
 Timber, scattering cedar and pine in N. 10 chs. only,
 Undergrowth, scattering sage brush. Good grass.

Part (completion) of Subdivision lines of T.31 N., R. 6 W. 25

Chains.

N. 89°58'E., on a random line, bet. secs. 14 and 23.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.00 Fall 17 lks. N. of the cor. of secs. 13, 14, 23 and 24.
 Thence,
 N. 89°55'W., on a true line, bet. secs. 14 and 23.
 Over gently rolling land, thru. scattering undergrowth.
 Ascend very gradually over E. slope.
 25.00 Enter dense timber, brs. N. and S.
 35.00 Leave dense, and enter very scattering timber, brs. N. and S. Thence over nearly level land, descending slightly over W. slope, to
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,



from which,

- A pine, 14 ins. in diam., brs. N. 32 $\frac{1}{2}$ °E., 547 lks. dist., mkd. S 14 BT.
- A pine, 12 ins. in diam., brs. S. 55°E., 281 lks. dist., mkd. S 23 BT.

Continue over nearly level land, thru. very scattering timber and undergrowth, descending slightly over NW. slope.

75.00 Thence over N. slope, with slight change in elevation.
 80.00 The cor. of secs. 14, 15, 22 and 23.
 Land, gently rolling and nearly level.
 Soil, sandy and gravelly loam, 1st and 2nd rate.
 Timber, cedar and pine in W. 55 chs. only.
 Undergrowth, scattering sage brush.
 Good grass.

N. 0°01'W., bet. secs. 14 and 15.

Over nearly level land, thru. scattering timber and undergrowth, descending very gradually over N. slope.

10.00 Leave timber, brs. NE. and SW.

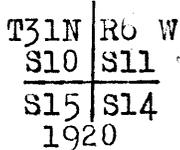
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bed rock, supported in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,



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

Continue over nearly level land, thru. scattering undergrowth, descending very gradually over NE. slope.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for cor. of secs. 10, 11, 14 and 15, marked on brass cap,



and dig pits, one in each sec., 18x18x12 ins., 3 ft. dist.

Land, nearly level.
 Soil, sandy and gravelly loam, 1st and 2nd rate.
 Timber, scattering cedar and pine in S. 10 chs. only.
 Undergrowth, scattering scrub cedar and sage brush.
 Good grass.

26 Part (completion) of Subdivision lines of T.31 N. R. 6 W.

chains.

40.00 S.89°55'E., on a random line, bet. secs.11 and 14.
Set temp. $\frac{1}{4}$ sec.cor.

80.08 Fall 10 lks.S.of the cor.of secs.11,12,13 and 14.

Thence,

S.89°58'W., on a true line, bet. secs.11 and 14.

Over nearly level land, thru. scattering undergrowth, descending slightly over NW.slope.

10.00 Enter scattering timber, brs.N.and S.

30.00 Leave timber, brs.NE. and SW.

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

$$\begin{array}{c} \frac{1}{4} \text{ S } 11 \\ \hline \text{S } 14 \\ 1920 \end{array}$$

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

50.00 Continue over nearly level land, thru.scattering undergrowth, descending slightly over NW.slope.

50.00 Enter scattering timber, brs. N. and S.

70.00 Leave timber, brs.N. and S.

72.50 Head of draw, course N. Ascend slightly over E.slope, to

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

Land, nearly level.

Soil, sandy and gravelly loam, 1st and 2nd rate.

Timber, cedar and pine, dense and scattering where noted.

Undergrowth, scattering scrub cedar and sage brush.

Good grass.

N.0° 01' W., bet.secs.10 and 11.

Over nearly level land, thru. scattering undergrowth, along E.slope, descending very gradually.

35.00 Enter scattering timber, brs.NE. and SW.

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

$$\begin{array}{c} \frac{1}{4} \\ \text{S10} \quad | \quad \text{S11} \\ | \\ 1920 \end{array}$$

from which,

A cedar, 13 ins. in diam., brs.N.9 $\frac{1}{2}$ °E., 160 lks.

dist., ~~mid.~~ $\frac{1}{4}$ S 11 BT.

A cedar, 30 ins. in diam., brs.S.82 $\frac{3}{4}$ °W., 52 lks.

dist., ~~mid.~~ $\frac{1}{4}$ S 10 BT.

Continue over nearly level land, thru. scattering timber and undergrowth, descending very gradually over E. slope.

45.00 Leave timber, brs.SE. and NW.

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

$$\begin{array}{c} \text{T31N} \quad | \quad \text{R6 W} \\ \hline \text{S } 3 \quad | \quad \text{S } 2 \\ \hline \text{S10} \quad | \quad \text{S11} \\ 1920 \end{array}$$

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

Land, nearly level.

Soil, sandy and gravelly loam, 1st and 2nd rate.

Timber, scattering cedar and pine, where noted.

Undergrowth, scattering scrub cedar and sage brush.

Good grass.

ECCO 2507

Part (completion) of Subdivision lines of T. 31 N., R. 6 W. 27

Chains. N. 89° 58' E., on a random line, bet. secs. 2 and 11.

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

80.30 Fall 39 lks. N. of the cor. of secs. 1, 2, 11 and 12.

Thence,
N. 89° 45' W., on a true line, bet. secs. 2 and 11.
Over nearly level land, thru. scattering undergrowth. Desc. slightly over SW. slope.

15.00 Shallow draw, course NW. Thence over N. slope, with slight change in elevation.

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

$\frac{1}{4}$ S 2
S 11
1920

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

Continue over nearly level land, thru. scattering undergrowth, along N. slope, with slight change in elevation.

65.00 Descend 50 ft., over SW. slope, to

73.30 Draw, course N. 15° W. Ascend slightly over NE. slope, to

80.30 The cor. of secs. 2, 3, 10 and 11.
Land, nearly level and gently rolling.
Soil, sandy and gravelly loam, 1st and 2nd rate.
Timber, none.
Undergrowth, scattering sage brush.
Good grass.

40.00 N. 0° 09' E., on a random line, bet. secs. 2 and 3.
Set temp. $\frac{1}{4}$ sec. cor.

79.82 Fall 23 lks. W. of the cor. of secs. 2, 3, 34 and 35, on N. bdy. of Tp., hereinbefore described.

Thence,
S. 0° 19' W., on a true line, bet. secs. 2 and 3.
Over gently rolling land, thru. scattering undergrowth.
Descend 30 ft., over S. slope.

9.82 Draw, course E. Thence over nearly level land, along E. slope, ascending very gradually.

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

S 3 $\frac{1}{4}$ S 2
1920

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

Continue over nearly level land, thru. scattering undergrowth, ascending very gradually.

79.82 The cor. of secs. 2, 3, 10 and 11.
Land, gently rolling, and nearly level.
Soil, gravelly loam, 2nd rate.
Timber, none.
Undergrowth, scattering sagebrush.
Good grass.

From the cor. of secs. 3, 4, 33 and 34, on S. bdy. of Tp., described in Book "D,"

N. 0° 02' W., bet. secs. 33 and 34.

Over nearly level land, thru. scattering undergrowth, along E. edge of scattering timber. Desc. slightly over W. slope, to

20.00 Change to NE. slope, and descend very gradually. Leave timber.

28 Part (completion) of Subdivision lines of T.31 N., R. 6 W.

Chains.

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

$\frac{1}{4}$
 S33 | S34
 1920

from which,

A cedar, 8 ins. in diam., brs. N. $89\frac{3}{4}^{\circ}$ E., 660 lks.
 dist., mkd. $\frac{1}{4}$ S 34 BT.

A pine, 12 ins. in diam., brs. N. $18\frac{1}{2}^{\circ}$ W., 432 lks.
 dist., mkd. $\frac{1}{4}$ S 33 BT.

Continue over gently rolling land, descending slightly over E. slope.

Enter scattering timber.

60.00 Draw, course NW. Ascend gradually over S. slope, to

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in the ground, for cor. of secs. 27, 28, 33 and 34, marked on brass cap,

T31N | Ro W
 S28 | S27
 S33 | S34
 1920

from which,

A pine, 8 ins. in diam., brs. N. $15\frac{1}{2}^{\circ}$ E., 236 lks.
 dist., mkd. T31N RoW S27 BT.

A pine, 14 ins. in diam., brs. S. $76\frac{1}{4}^{\circ}$ E., 277 lks.
 dist., mkd. T31N RoW S34 BT.

A pine, 10 ins. in diam., brs. S. $27\frac{1}{2}^{\circ}$ W., 273 lks.
 dist., mkd. T31N RoW S33 BT.

A pine, 14 ins. in diam., brs. N. $53\frac{1}{2}^{\circ}$ W., 228 lks.
 dist., mkd. T31N RoW S28 BT.

Land, nearly level and gently rolling.

Soil, gravelly loam, 2nd rate.

Timber, scattering cedar and pine where noted.

Undergrowth, scattering sage brush.

Good grass.

40.00 S. $89^{\circ}51'$ E., on a random line, bet. secs. 27 and 34.
 Set temp. $\frac{1}{4}$ sec. cor.

80.00 Fall 6 lks. S. of the cor. of secs. 26, 27, 34 and 35.

Thence,

N. $89^{\circ}54'$ W., on a true line, bet. secs. 27 and 34.

Over gently rolling land, thru. scattering timber and undergrowth. Ascend gradually over E. slope.

20.00 Descend gradually over W. slope.

35.00 Change to NW. slope, and continue gradual descent.

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

$\frac{1}{4}$ S 27
 S 34
 1920

from which,

A cedar, 4 ins. in diam., brs. N. 10° E., 444 lks.
 dist., mkd. $\frac{1}{4}$ S 27 BT.

A cedar, 8 ins. in diam., brs. S. $30\frac{1}{2}^{\circ}$ W., 226 lks.
 dist., mkd. $\frac{1}{4}$ S 34 BT.

Continue over gently rolling land, thru. scattering timber and undergrowth, along N. slope, with slight change in elevation.

60.00 Descend gradually over SW. slope.

70.50 Draw, course SW. Thence over S. slope, ascending slightly, to

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

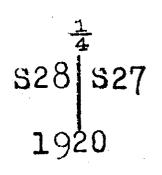
Land, gently rolling.

Soil, gravelly loam, 2nd rate.

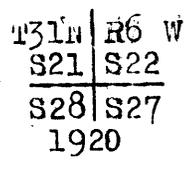
Part (completion) of subdivision lines of T.31 N., R. 6 W. 29

Chains.
 Timber, scattering cedar and pine.
 Undergrowth, scattering scrub cedar and sagebrush.
 Good grass.

N.0°02'W., bet. secs.27 and 28.
 Over gently rolling land, thru. scattering timber and undergrowth. Ascend gradually over S.slope.
 3.00 Leave scattering, and enter dense timber, brs.NE. and SW.
 5.00 Enter nearly level land, and descend slightly over E. slope, to.
 15.00 Leave timber, brs.NE. and SW.
 Descend very gradually over NE.slope, to
 40.00 Set an iron post, 3 ft.long, 1 in. in diam., 30 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

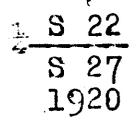


and dig pits, 18x18x12 ins., one each N.and S.of cor., 3 ft. dist.
 Continue over nearly level land, thru. scattering undergrowth, descending very gradually over E.slope.
 80.00 Set an iron post, 3 ft.long, 2 ins. in diam., 26 ins. in the ground, for cor.of secs. 21,22,27 and 28, marked on brass cap,



from which,
 A cedar, 8 ins. in diam., brs.S.42 $\frac{1}{2}$ °W., 266 lks. dist., mkd. T31N R6W S28 BT.
 and dig pits, 18x18x12 ins., one each NE., SE., SW. and NW. of cor. 3 ft. dist.
 Land, gently rolling.
 Soil, gravelly loam, 2nd rate.
 Timber, cedar and pine in S. 15 chs. only.
 Undergrowth, scattering scrub cedar and sage brush.
 Good grass.

40.00 S.89°54' E., on a random line, bet. secs.22 and 27.
 Set temp. $\frac{1}{4}$ sec. cor.
 80.14 Fall 7 lks.N. of the cor. of secs. 22,23,26 and 27.
 Thence,
 N.89°51'W., on a true line, bet. secs.22 and 27.
 Over gently rolling land, thru. scattering undergrowth. Ascend very gradually over E.slope.
 25.00 Top of ascent, brs.N. and S. Enter scattering timber, brs.NW. and SE. Desc. very gradually over W.slope.
 40.07 Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,



from which,
 A pine, 14 ins. in diam., brs.S.80°E., 37 lks. dist., mkd. S 27 BT.
 A pine, 10 ins. in diam., brs. N.39 $\frac{1}{4}$ °W., 75 lks. dist., mkd. S 22 BT.
 Continue over gently rolling land, thru. scattering timber and undergrowth.
 45.00 Leave timber, brs.NE. and SW. Asc. very gradually over

30 Part (completion) of Subdivision lines of T.31 N., R.6 W.

Chains.

80.14 E. slope.
The cor. of secs. 21, 22, 27 and 28.
Land, gently rolling.
Soil, gravelly loam, 2nd rate.
Timber, scattering cedar and pine, where noted.
Undergrowth, scattering scrub cedar and sage brush.
Good grass.

40.00 N. 0° 02' W. bet. secs. 21 and 22.
Over gently rolling land, thru. scattering undergrowth,
descending very gradually over NE. slope.
Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in
the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

.1
S21 | S22
1920

61.40 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
W. of cor.
Continue over gently rolling land, thru. scattering under-
growth, descending slightly over N. slope.
80.00 Shallow draw, course NW. Enter scattering timber. Ascend
slightly over S. slope, to
Set an iron post, 3 ft. long, 2 ins. in diam., 14 ins. in
the ground, to bed rock, supported in a mound of stone,
for cor. of secs. 15, 16, 21 and 22, marked on brass cap,

T31N | ROW
S16 | S15
S21 | S22
1920

from which,
A pine, 5 ins. in diam., brs. N. 83 $\frac{1}{2}$ ° E., 73 lks.
dist., mkd. "T31N ROW S15 BT."
A cedar, 20 ins. in diam., brs. S. 53° E., 208 lks.
dist., mkd. "T31N ROW S22 BT."
A pine, 4 ins. in diam., brs. S. 55 $\frac{1}{2}$ ° W., 141 lks.
dist., mkd. "BT."
A pine, 10 ins. in diam., brs. N. 64° W., 115 lks.
dist., mkd. "T31N ROW S16 BT."

Land, gently rolling.
Soil, gravelly and rocky, 2nd and 3rd rate.
Timber, scattering cedar and pine in N. 19 chs. only.
Undergrowth, scattering scrub cedar and sage brush.
Good grass.

40.00 S. 89° 51' E., on a random line, bet. secs. 15 and 22.
Set temp. $\frac{1}{4}$ sec. cor.
80.14 Fall 5 lks. S. of the cor. of secs. 14, 15, 22 and 23,
Thence,

40.07 N. 89° 53' W., on a true line, bet. secs. 15 and 22.
Over nearly level land, thru. scattering timber and
undergrowth, ascending very gradually over E. slope.
Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in
the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 15
S 22
1920

from which,
A cedar, 18 ins. in diam., brs. N. 64° E., 100 lks.
dist. mkd. "S 15 BT."

BOOK 2007

Part (completion) of Subdivision lines of T. 31 N., R. 6 W. 31

Chains.

A cedar, 16 ins. in diam., brs. S. 5° W., 83 lks.
 dist. mkd. S 22 BT.

Continue over nearly level land, thru. scattering timber and undergrowth; ascending gradually over E. slope.

67.50 Descend 40 ft., over W. slope.

70.85 Head of shallow wash, course S. Ascend slightly over SE. slope, to .

80.14 The cor. of secs. 15, 16, 21 and 22.
 Land, nearly level and gently rolling.
 Soil, gravelly loam, 2nd rate.
 Timber, scattering cedar and pine.
 Undergrowth, scattering scrub cedar and sagebrush.
 Good grass.

N. 0° 02' W., bet. secs. 15 and 16.
 Over rolling land, thru. scattering timber and undergrowth, along W. slope, descending 25 ft. to

17.00 Draw, course W. Ascend 20 ft., over S. slope.

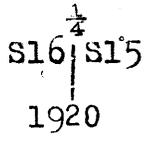
20.00 Spur, slopes W. Desc. 28 ft., over N. slope.

22.50 Draw, course W. Asc. 87 ft., over S. slope.

30.00 Spur, slopes W. Desc. 80 ft., over N. slope.

34.30 Draw, course W. Ascend 100 ft., over S. slope, to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground, to bed rock, supported in a mound of stone, for 1/4 sec. cor., marked on brass cap,



from which,

A cedar, 10 ins. in diam., brs. S. 72° E., 5 lks.
 dist., mkd. S 15 BT.

A cedar, 10 ins. in diam., brs. S. 29 1/4° W., 39 lks.
 dist., mkd. S 16 BT.

Continue over rolling land, thru. scattering timber and undergrowth.
 Ascend 12 ft. over S. slope.

41.45 Spur, slopes NW. Descend 50 ft., over NE. slope.

47.90 Draw, course NW. Ascend 40 ft., over SW. slope.

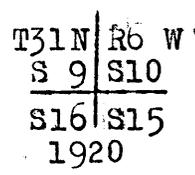
57.40 Spur, slopes NW. Desc. 40 ft., over NE. slope.

59.90 Head of draw, course NW. Asc. 33 ft., over SW. slope.

69.80 Spur, slopes SW. Desc. 25 ft., over NW. slope.

74.80 Draw, course SW. Asc. 35 ft. over S. slope, to

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 12 ins. in the ground, to bed rock, supported in a mound of stone for cor. of secs. 9, 10, 15 and 16, marked on brass cap,



from which,

A cedar, 22 ins. in diam., brs. N. 25 3/4° E., 114 lks.
 dist., mkd. T31N R6W S10 BT.

A pine, 6 ins. in diam., brs. S. 70° E., 73 lks.
 dist., mkd. T31N R6W S15 BT.

A pine, 11 ins. in diam., brs. S. 67 1/4° W., 136 lks.
 dist., mkd. T31N R6W S16 BT.

A cedar, 14 ins. in diam., brs. N. 21 1/2° W., 115 lks.
 dist., mkd. T31N R6W S9 BT.

Land, roughly rolling.
 Soil, gravelly and rocky, 2nd and 3rd rate.
 Timber, scattering cedar and pine.
 Undergrowth, scattering scrub cedar and sage brush.
 Fair grass.

32 Part.(completion) of Subdivision lines of T.31 N., R. 0 W.

Chains.
 40.00 S.89°53' E., on a random line, bet. secs.10 and 15.
 Set temp. $\frac{1}{4}$ sec. cor.
 80.06 Fall 22 lks. S. of the cor. of secs. 10, 11, 14 and 15.
 Thence,
 S.89°58' W., on a true line, bet. secs. 10 and 15.
 Over gently rolling land, thru. scattering undergrowth,
 ascending gradually over E. slope.
 10.00 Enter scattering timber, brs. N. and S.
 20.00 Leave timber, brs. SE. and NW.
 25.00 Top of ascent; thence over S. slope, with slight change in
 elevation.
 35.00 Enter scattering timber, brs. NE. and SW.
 40.03 Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in
 the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$$\frac{1}{4} \begin{array}{l} S 10 \\ S 15 \\ 1920 \end{array}$$

from which,

A cedar, 12 ins. in diam., brs. S. 38 $\frac{3}{4}$ ° E., 612 lks.
 dist., mkd. S 15 BT.

A cedar, 19 ins. in diam., brs. N. 15 $\frac{3}{4}$ ° W., 333 lks.
 dist., mkd. S 10 BT.

Continue over gently rolling land, thru. scattering tim-
 ber and undergrowth, descending very gradually over
 SW. slope.

80.06 The cor. of secs. 9, 10, 15 and 16.
 Land, gently rolling.
 Soil, sandy and gravelly loam; 1st and 2nd rate.
 Timber, scattering cedar and pine.
 Undergrowth, scattering scrub cedar and sagebrush.
 Fair grass.

N. 0° 02' W., bet. secs. 9 and 10.

Over gently rolling land, thru. scattering timber and
 undergrowth. Ascend very gradually over SW. slope.

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

$$\frac{1}{4} \begin{array}{l} S 9 | S 10 \\ 1920 \end{array}$$

from which,

A cedar, 30 ins. in diam., brs. N. 72° E., 37 lks.
 dist., mkd. S 10 BT.

A cedar, 24 ins. in diam., brs. N. 82° W., 45 lks.
 dist., mkd. S 9 BT.

Continue over gently rolling land, thru. scattering tim-
 ber and undergrowth.

Ascend very gradually over SW. slope.

50.00 Enter roughly rolling land. Descend 165 ft., over N.
 slope.

73.30 Draw, course NE. Asc. 55 ft., over SE. slope, to

80.00 Set an iron post 3 ft. long, 2 ins. in diam., on surface
 rock, supported in a mound of stone, for cor. of secs. 3,
 4, 9 and 10, marked on brass cap,

$$\begin{array}{l} T31N | R0 W \\ S4 | S3 \\ \hline S 9 | S 10 \\ 1920 \end{array}$$

from which,

A pine, 14 ins. in diam., brs. N. 00 $\frac{3}{4}$ ° E., 61 lks.
 dist., mkd. T31N R0W S3 BT.

A pine, 18 ins. in diam., brs. S. 71° E., 52 lks.
 dist., mkd. T31N R0W S10 BT.

Part (completion) of subdivision lines of T.31 N., R. 6 W. 33

Chains.

A pine, 10 ins. in diam., brs. S. 61° W., 79 lks. dist., mkd. "T31N ROW S9 BT." and raise a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor.

Land, gently and roughly rolling. Soil, gravelly, rocky loam, 2nd and 3rd rate. Timber, scattering cedar and pine. Undergrowth, scattering sage brush, scrub cedar and dogwood. Fair grass.

40.00
79.94

N. 89° 58' E., on a random line, bet. secs. 3 and 10. Set temp. 1/4 sec. cor. Fall 12 lks. S. of the cor. of secs. 2, 3, 10 and 11.

Thence, S. 89° 53' W., on a true line, bet. secs. 3 and 10. Over gently rolling land, thru. scattering undergrowth, ascending gradually over E. slope.

15.00
39.97

Enter scattering timber, brs. N. and S. Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bed rock, supported in a mound of stone, for 1/4 sec. cor., marked on brass cap,

1/4 S 3
1/4 S 10
1920

from which
A pine, 18 ins. in diam., brs. N. 31 1/2° E., 140 lks. dist., mkd. "S 3 BT."
A cedar, 14 ins. in diam., brs. S. 47 1/4° W., 150 lks. dist., mkd. "S 10 BT."

55.00

Continue over gently rolling land, thru. scattering timber and undergrowth. Ascend 40 ft., over E. slope. Leave gently rolling, and enter roughly rolling and broken land. Desc. 175 ft., over SW. slope.

73.75

Bottom of canyon, course NW. Asc. 110 ft., over NE. slope, to

79.94

The cor. of secs. 3, 4, 9 and 10. Land, gently and roughly rolling and broken. Soil, gravelly and rocky loam, 2nd and 3rd rate. Timber, scattering cedar and pine in W. 65 chs. only. Undergrowth, scattering scrub cedar and sage brush. Fair grass.

40.00
80.12

N. 0° 18' E., on a random line, bet. secs. 3 and 4. Set temp. 1/4 sec. cor. Fall 7 lks. W. of the cor. of secs. 3, 4, 33 and 34 on N. bdy. of Tp., hereinbefore described.

Thence, S. 0° 21' W., on a true line, bet. secs. 3 and 4. Over nearly level land, thru. scattering timber and undergrowth, along W. slope, with slight change in elevation.

40.12

Set an iron post, 3 ft. long, 1 in. in diam., 13 ins. in the ground to bed rock, supported in a mound of stone, for 1/4 sec. cor., marked on brass cap,

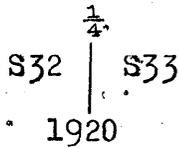
S 4 1/2 S 3
1920

from which,
A pine, 12 ins. in diam., brs. N. 6 1/2° E., 280 lks. dist., mkd. "S 3 BT."
A pine, 4 ins. in diam., brs. N. 50 3/4° W., 182 lks. dist., mkd. "BT."

34 Part (completion) of Subdivision lines of T.31 N., R.6 W.

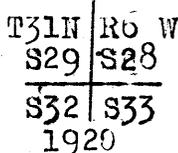
Chains.
 Continue over nearly level land, thru scattering timber and undergrowth, along west slope.
 42.12 Leave nearly level, and enter roughly rolling and broken land. Ascend 45 ft.
 44.44 Top of small rock cliff, brs. E. and W. facing S. Desc. 30 ft. to
 46.32 Draw, course W. Asc. 40 ft., over NW. slope.
 54.12 Rim of canyon, brs. NW. and SE. Desc. 200 ft., over broken SW. slope.
 74.00 Bottom of canyon, course W. from SE. Asc. 120 ft., over N. slope, to
 80.12 The cor. of secs. 3, 4, 9 and 10.
 Land, nearly level, roughly rolling and broken.
 Soil, gravelly and rocky, 3rd and 4th rate.
 Timber, scattering cedar and pine.
 Undergrowth, scattering scrub cedar and sage brush.
 Poor grass.

 From the cor. of secs. 4, 5, 32 and 33, on S. bdy. of Tp., described in Book "D,"
 N. 9° 03' W., bet. secs. 32 and 33.
 Over roughly rolling and mountainous land, thru scattering timber and undergrowth.
 Descend 160 ft., over N. slope.
 11.00 Draw, course W. Asc. 53 ft., over S. slope.
 16.80 Spur, slopes W. Desc. 113 ft., over N. slope.
 19.37 Draw, course W. Asc. 137 ft., over SW. slope.
 29.14 Spur, slopes W. Desc. 110 ft., over N. slope.
 35.50 Draw, course NW. Asc. 35 ft., over SW. slope, to
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 14 ins. in the ground to bed rock, supported in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,



from which,
 A pine, 12 ins. in diam., brs. N. 57 1/4° E., 113 lks.
 dist., mkd. S 33 BT.
 A pine, 9 ins. in diam., brs. N. 81 1/2° W., 96 lks.
 dist., mkd. S 32 BT.

Continue over roughly rolling and mountainous land, thru scattering timber and undergrowth. Asc. 26 ft., over SW. slope.
 42.43 Spur, slopes W. Desc. 35 ft., over N. slope.
 46.88 Draw, course W. Asc. 34 ft., over S. slope.
 49.83 Spur, slopes W. Desc. 30 ft., over N. slope.
 55.60 Draw, course W. Asc. 15 ft., over S. slope.
 57.21 Spur, slopes W. Desc. 50 ft., over NW. slope.
 60.26 Draw, course SW. Asc. 76 ft., over S. slope, to
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for cor. of secs. 28, 29, 32 and 33, marked on brass cap,



and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.
 Land, roughly rolling and mountainous.
 Soil, gravelly and rocky, 3rd rate.
 Timber, scattering cedar and pine.
 Undergrowth, scattering scrub cedar, sagebrush and dog-wood.
 Poor grass.

Part (completion) of Subdivision lines of T. 31 N., R. 6 W. 35

Chains.
 40.00 S. 89° 51' E., on a random line, bet. secs. 28 and 33.
 Set temp. $\frac{1}{4}$ sec. cor.
 79.88 Fall 2 lks. N. of the cor. of secs. 27, 28, 33 and 34.
 Thence,
 N. 89° 50' W., on a true line, bet. secs. 28 and 33.
 Over rolling land, thru. scattering timber and undergrowth,
 along S. slope, with slight change in elevation.
 15.00 Descend 40 ft., over SW. slope.
 20.00 Enter draw, course W. from SE. Leave timber, brs. SE. and
 NW. Descend gradually in draw.
 32.00 Leave draw, course NW. from E. Enter scattering timber,
 brs. SE. and NW. Asc. gradually over NE. slope.
 39.94 Set an iron post, 3 ft. long, 1 in. in diam., on surface
 rock, supported in a mound of stone, for $\frac{1}{4}$ sec. cor.,
 marked on brass cap,
 $\frac{1}{4}$ S 28
 S 33
 1920

from which,
 A pine, 10 ins. in diam., brs. N. 55 $\frac{3}{4}$ ° E., 33 lks.
 dist. mkd. $\frac{1}{4}$ S 28 BT.
 A pine, 20 ins. in diam., brs. S. 72° W., 44 lks.
 dist. mkd. $\frac{1}{4}$ S 33 BT.
 Continue over rolling land, thru. scattering timber and
 undergrowth.
 Ascend 75 ft., over NE. slope.
 64.90 Spur, slopes N. Desc. 35 ft., over W. slope, to
 79.88 The cor. of secs. 28, 29, 32 and 33.
 Land, rolling.
 Soil, gravelly loam, 2nd rate.
 Timber, scattering cedar and pine,
 Undergrowth, scattering scrub cedar and sage brush.
 Fair grass.

 N. 0° 03' W., bet. secs. 28 and 29.
 Over rolling land, thru. scattering timber and undergrowth.
 Descend 80 ft., over NW. slope, to
 22.00 Rocky draw, course NW. Desc. 55 ft., over NW. slope, to
 33.00 Rocky draw, course W. Asc. 57 ft., over SW. slope, to
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in
 the ground to bed rock, supported in a mound of stone
 for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 29 | S 28
 1920

from which,
 A pine, 12 ins. in diam., brs. N. 03° E., 67 lks.
 dist. mkd. $\frac{1}{4}$ S 28 BT.
 A pine, 10 ins. in diam., brs. N. 80° W., 93 lks.
 dist. mkd. $\frac{1}{4}$ S 29 BT.
 Continue over rolling land, thru. scattering timber and
 undergrowth, along W. slope, with slight change in
 elevation.
 58.00 Shallow draw, course W. Asc. slightly over SW. slope, to
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 10 ins. in
 the ground to bed rock, supported in a mound of stone,
 for cor. of secs. 20, 21, 28 and 29, marked on brass cap,
 T31N | R6 W
 S20 | S21
 S29 | S28
 1920

from which,
 A pine, 16 ins. in diam., brs. N. 39 $\frac{1}{2}$ ° E., 181 lks.
 dist. mkd. T31N Row S21 BT.

36 Part (completion) of Subdivision lines of T.31 N., R. 6 W.

Chains.

- A pine, 14 ins. in diam., brs. S. 68 1/4° E., 200 lks.
dist., mkd. T31N Row S28 BT.
- A pine, 10 ins. in diam., brs. S. 83° W., 190 lks.
dist., mkd. T31N Row S29 BT.
- A pine, 6 ins. in diam., brs. N. 13° W., 41 lks.
dist., mkd. T31N Row S20 BT.

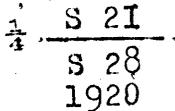
Land, rolling.
Soil, gravelly and rocky, 2nd and 3rd rate.
Timber, scattering cedar and pine.
Undergrowth, scattering scrub cedar and sage brush.
Fair grass.

40.00
79.90

S. 89° 50' E., on a random line, bet. secs. 21 and 28.
Set temp. 1/4 sec. cor.
Fall 5 lks. N. of the cor. of secs. 21, 22, 27 and 28.
Thence

13.00
23.00
39.95

N. 89° 48' W., on a true line, bet. secs. 21 and 28.
Over rolling land, thru. scattering undergrowth.
Ascend very gradually over NE. slope.
Enter scattering timber, brs. N. and S.
Leave timber, brs. N. and S.
Set an iron post, 3 ft. long, 1 in. in diam., 14 ins. in
the ground, to bed rock, supported in a mound of
stone, for 1/4 sec. cor., marked on brass cap,



from which,

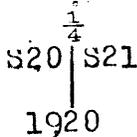
- A pine, 14 ins. in diam., brs. S. 42 3/4° W., 118
lks. dist., mkd. 1/4 S 28 BT.
- A pine, 12 ins. in diam., brs. N. 51° W., 57 lks.
dist., mkd. 1/4 S 21 BT.

65.00
79.90

Continue over rolling land, thru. dense timber and scat-
tering undergrowth. Ascend very gradually over E. slope.
Descend gradually over W. slope, to
The cor. of secs. 20, 21, 28 and 29.
Land, rolling.
Soil, gravelly and rocky, 2nd and 3rd rate.
Timber, cedar and pine, scattering and dense as noted.
Undergrowth, scattering scrub cedar and sage brush.
Fair grass.

35.50
40.00

N. 0° 03' W., bet. secs. 20 and 21.
Over rolling land, thru. dense timber and scattering un-
dergrowth, descending gradually along W. slope.
Shallow draw, course NE. Descend very gradually over NE.
slope.
Set an iron post, 3 ft. long, 1 in. in diam., 9 ins. in
the ground, to bed rock, supported in a mound of
stone, for 1/4 sec. cor., marked on brass cap,



from which,

- A cedar, 10 ins. in diam., brs. N. 20° E., 2 lks.
dist., mkd. 1/4 S 21 BT.
- A cedar, 14 ins. in diam., brs. N. 71° W., 25 lks.
dist., mkd. 1/4 S 20 BT.

80.00

Continue over rolling land, thru. scattering timber and
undergrowth. Desc. very gradually over NE. slope.
Set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in
the ground, to bed rock, supported in a mound of
stone, for cor. of secs. 16, 17, 20 and 21, marked on
brass cap,

2000 2007

Part (completion) of Subdivision lines of T.31 N., R.6 W. 37

Chains.

T31N	Ro W
S17	S16
S20	S21

1920

from which,
 A pine, 6 ins. in diam., brs. N. 55° E., 138 lks.
 dist., mkd. T31N Row S16 BT.
 A pine, 9 ins. in diam., brs. S. 49½° E., 230 lks.
 dist., mkd. T31N Row S21 BT.
 A pine, 10 ins. in diam., brs. S. 55° W., 147 lks.
 dist., mkd. T31N Row S20 BT.
 A pine, 14 ins. in diam., brs. N. 30½° W., 239 lks.
 dist., mkd. T31N Row S17 BT.

Land, rolling.
 Soil, gravelly and rocky, 2nd and 3rd rate.
 Timber, cedar and pine, dense in S. ½, scattering in N. ½.
 Undergrowth, scattering scrub cedar, sagebrush and yucca.
 Fair grass.

 S. 89° 48' E., on a random line, bet. secs. 10 and 21.
 40.00 Set temp. ¼ sec. cor.
 80.02 Intersect the cor. of secs. 15, 16, 21 and 22.
 Thence,
 N. 89° 48' W., on a true line, bet. secs. 10 and 21.
 Over rolling land, thru. scattering timber and undergrowth.
 Descend gradually over W. slope.
 10.00 Head of wash, course N. Ascend slightly to
 15.00 Descend 50 ft., over W. slope.
 23.10 Rocky wash, course NW. Ascend 70 ft., over NE. slope.
 33.20 Descend 15 ft., over W. slope.
 37.20 Wash, course N., heads about 3 chs. S. Asc. 15 ft., over NE.
 slope, to

40.01 Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in
 the ground, to bed rock, supported in a mound of
 stone, for ¼ sec. cor., marked on brass cap,
 ¼ S 16
 S 21
 1920

from which,
 A pine, 10 ins. in diam., brs. N. 78½° E., 33 lks.
 dist., mkd. ¼ S 16 BT.
 A pine, 8 ins. in diam., brs. S. 38½° W., 31 lks.
 dist., mkd. ¼ S 21 BT.

Continue over rolling land, thru. scattering timber and
 undergrowth. Ascend 45 ft., over E. slope.
 43.00 Ridge, brs. N. and S. Descend 130 ft., over W. slope, to
 50.00 Rocky wash, course NW. Thence over N. slope, with slight
 change in elevation.
 55.50 Wash, course N. Asc. 150 ft., over E. slope, to
 67.50 Ascend slightly over NE. slope, to
 80.02 The cor. of secs. 10, 17, 20 and 21.

Land, rolling.
 Soil, gravelly and rocky, 2nd and 3rd rate.
 Timber, scattering cedar and pine.
 Undergrowth, scattering scrub cedar and sage brush.

 N. 0° 03' W., bet. secs. 16 and 17.
 Over rolling land, thru. scattering timber and under-
 growth. Desc. 37 ft., over N. slope.
 3.80 Wash, course NE. near head. Thence over E. slope,
 18.00 Wash, course NW. Asc. 75 ft. over SW. slope.
 32.80 Ridge, brs. NW. and SE. Descend 50 ft., over N. slope, to
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in
 the ground, to bed rock, supported in a mound of
 stone, for ¼ sec. cor., marked on brass cap,

38 Part (completion) of Subdivision lines of T.31 N., R.6 W.

Chains.

S17 | S16
1920

from which,

A pine, 10 ins. in diam., brs. S.86°E., 46 lks. dist., mark "1/4 S 16 BT."

A twin pine, 16 ins. in diam., brs. N.75 1/2°W., 204 lks. dist., mark "1/4 S 17 BT."

45.00 Leave rolling, and enter mountainous land, thru. scattering timber and undergrowth. Desc 85 ft., over N. slope, to Gulch, course NE. Desc. 90 ft., over NE. slope, to
54.20 E. rim of National Canyon, brs. E. and W. Thence in said canyon, over limestone cliffs and ledges, bearing E. and W., facing N. Desc. 460 ft. to

69.38 Top of cliff, bearing E. and W., facing N. The line N. of this point passes over deep ravine or side canyon, course NW. into National Canyon. It is impracticable to continue measurement by chaining owing to the extremely rugged and broken nature of the surface; therefore, offset and triangulate as described as follows, and as shown on the diagram hereon:

From 69.38 ch. station on sec. line indicated on diagram at "A" measure East 8.54 chs. on offset line in sec. 16, and set flag at point "B" on S. rim of side canyon.

Set flag at point "C" on N. rim of same canyon, N.0°30'E. from flag, "B."

From point "C," measure a base S.50°52'E., 5.93 chs. along N. rim of side canyon to point "D."

Bearing "D" to "B" = S.47°41'W.

Included angles of triangle "BCD" are 47°11', 51°22' and 81°27' the sum of which is 180°00'.

Triangulated portion of offset "B" to "C" is obtained by
$$\frac{\text{sine } 81^{\circ}27' \times \text{base}}{\text{sine } 47^{\circ}11'} \text{ or } \frac{.98889 \times 5.93}{.73353} = 7.99 \text{ chs.}$$

By computation of portion "ABC" of offset the position of point "C" is found to be 8.62 chs. E. of a point on sec. line, 7.99 chs. N.0°3'W., from point "A," or 2.63 chs. S.0°3'E. from point for sec. cor. indicated on diagram at "F."

From point "C" measure N.0°3'W., 2.63 chs. to offset point "E," 8.62 chs. E. from point for sec. cor.

It is impracticable to chain measurement from "E" to "F," owing to steep, rugged cliffs on N. wall of side canyon; therefore, locate point "F" by lining in flag West from point "E" and N.0°3'W. from point "A."

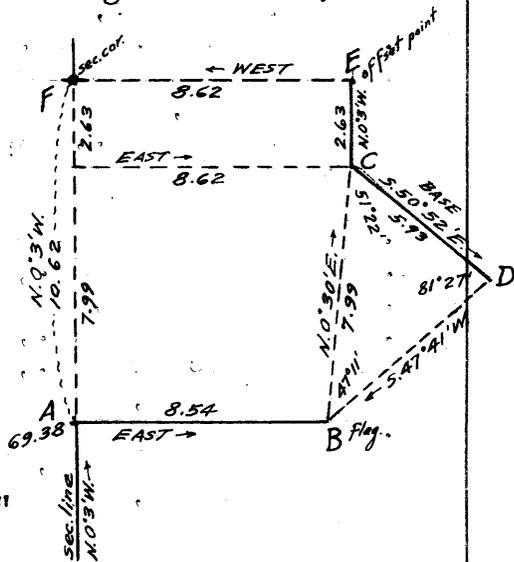
77.00 (Approximate) Bottom of side canyon, course NW. Ascend to
80.00 Set an iron post 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for cor. of secs. 8, 9, 16 and 17, marked on brass cap,

T31N | R6 W
S 8 | S 9
S17 | S16
1920

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

Vertical angle from this cor. to 69.38 chs. station = +28°; therefore, the cor. is 373 ft. below the 69.38 ch. station.

Land, south 1/2 rolling; N. 1/2 mountainous.

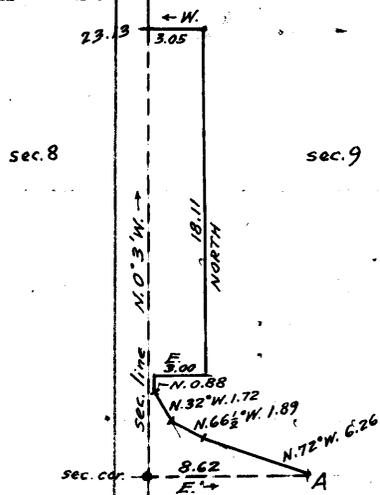


Chains.	
	Soil, gravelly and rocky, 3rd and 4th rate. Timber, scattering cedar and pine. Undergrowth, scattering scrub cedar and sage brush. Poor grass.
8.62	S. 89° 48' E., on random line, bet. secs. 9 and 16, measurement of 8.62 chs. by offset line, hereinbefore described. Point, 3 lks. S. of terminus of offset line. Continue line and measurement by chaining.
40.00	Set temp. 1/4 sec. cor.
80.24	fall 16 lks. S. of the cor. of secs. 9, 10, 15 and 16. Thence, N. 89° 55' W., on a true line, bet. secs. 9 and 16. Over rolling and broken land, thru. scattering timber and undergrowth. Descend 64 ft., over SW. slope.
12.90	Draw, course SW. Leave rolling, and enter mountainous land. Ascend 53 ft., over SE. slope.
19.90	Spur, slopes SW. Descend 123 ft., over NW. slope.
31.80	Draw, course SW. Asc. 37 ft., over SE. slope, to
40.12	Set an iron post, 3 ft. long, 1 in. in diam., 14 ins. in the ground, to bed rock, supported in a mound of stone, for 1/4 sec. cor., marked on brass cap,
	$\begin{array}{r} \frac{1}{4} \text{ S } 9 \\ \hline \text{S } 16 \\ 1920 \end{array}$
	from which, A pine, 10 ins. in diam., brs. N. 24° E., 84 lks. dist., mkd. S 9 BT. A pine, 12 ins. in diam., brs. S. 12 1/4° W., 53 lks. dist., mkd. S 10 BT.
	Continue over broken and mountainous land, thru. scattering timber and undergrowth. Ascend 25 ft., over E. slope.
41.60	Spur, slopes S. Desc. 120 ft., over W. slope, to
49.80	Draw, course S. Ascend 40 ft., over E. slope.
50.10	Spur, slopes S. Descend 350 ft., over W. slope to N. rim of side canyon.
62.12	Rock outcropping, 15 ft. high.
71.62	Point of intersection of offset line, thru. sec. 16.
75.10	N. rim of side canyon brs. NW, and SE., forming part of E. rim of National Canyon. Discontinue chaining. Descend abruptly over cliffs to
80.24	The cor. of secs. 8, 9, 16 and 17. Land, rolling, broken and mountainous. Soil, rocky, 4th rate. Timber, scattering pine and cedar. Undergrowth, scattering scrub cedar and sage brush. Poor grass.

N. 0° 3' W., bet. secs. 8 and 9.
Over mountainous land, thru. scattering timber and undergrowth, along E. wall of National Canyon, near E. rim thereof. It being impracticable to chain measurement along the true position of the sec. line, owing to the fact that the same falls on face of cliff, obtain the measurement for a distance of 23.13 chs. N. 0° 3' W., from cor. of secs. 8, 9, 16 and 17 by offset thru. sec. 9, as described as follows, and as shown on the diagram hereon:

40 Part (completion) of Subdivision lines of T. 31 N., R. 6 W.

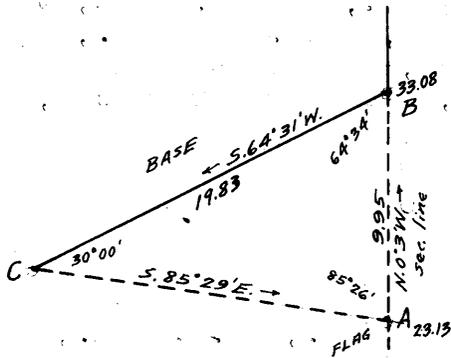
Chains.



From point "A," which is 8.62 chs. E. from sec. cor.,
 N. 72° W., 6.26 chs.
 N. 60 1/2° W., 1.89 chs.
 N. 32° W., 1.72 chs.
 North, 0.88 chs.
 East, 3.00 chs.
 North, 18.11 chs.
 West, 3.05 chs., to

intersection with sec. line bet. secs. 8 and 9, at 23.13 chs. N. 0° 3' W. from cor. of secs. 8, 9, 16 and 17.

- 5.00 (Approximate) E. rim of National Canyon, brs. NE. and SE. Continue over cliffs on E. wall of canyon.
- 23.13 Offset point at E. rim of National Canyon, brs. NE. and SE. Descend over cliffs facing NW., on E. wall of canyon. Chaining is impracticable; therefore, triangulate as described as follows, and as shown on the diagram hereon:



Leave flag at this point indicated on diagram at "A."
 From point ahead on sec. line at base of cliffs indicated at "B." measure a Base S. 64° 31' W., 19.83 chs. to point "C."
 Bearing from "C" to "A" = S. 85° 29' E.

Included angles of triangle "ABC" are 85° 26', 64° 34' and 30° 00', the sum of which is 180° 00'.

Triangulated dist. on sec. line "A" to "B" is obtained by $\frac{\sin 30^\circ 00' \times \text{Base}}{\sin 85^\circ 26'}$ or $\frac{.50000 \times 19.83}{.99683} = 9.95$ chs., which

added to 23.13 chs., gives 33.08 chs. N. 0° 3' W. from sec. cor. for position of triangulation point "B."

- 33.08 Triangulation point. Continue line and measurement by chaining. Over E. wall of National Canyon. Descend 100 ft. over NW. slope, to
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. on the ground, for 1/4 sec. cor., marked on brass cap,

S 8 | S 9

1920

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, SW. of cor., 8 ft. dist.

Continue over mountainous land, thru. scattering timber and undergrowth, along steep NW. slope, on E. wall of National Canyon. Descend 10 ft. to

- 40.25 Gulch, course NW. Desc. 215 ft., over steep NW. slope, to
- 70.00 Center of bottom of National Canyon, 2.00 chs. wide, course NE. Asc. slightly along foot of E. slope of W. wall of canyon.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 8 ins. in the ground, in a mound of stone, for cor. of secs. 4, 5, 8 and 9, marked on brass cap,

T31N | R6 W

S 5 | S 4

S 8 | S 9

1920

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

BOOK 307

Part (completion) of Subdivision lines of T. 31 N., R. 6 W. 41

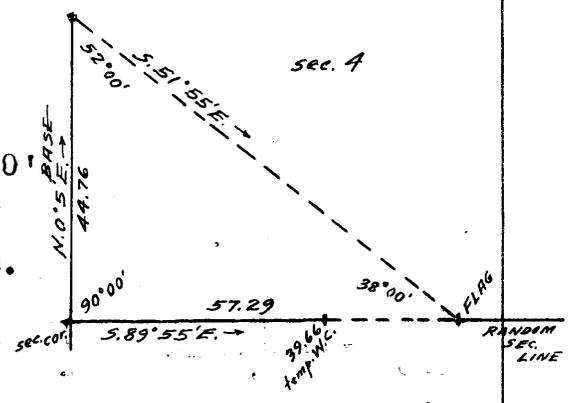
chains.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, cedar and pine.
Undergrowth, scattering scrub cedar and sage brush.
Poor grass.

39.00

S. 89° 55' E., on a random line, bet. secs. 4 and 9.
Discontinue chaining owing to steep cliffs ahead. Set temp. witness cor. to 1/4 sec. cor., and triangulate as described as follows, and as shown on the diagram hereon:

Set flag ahead on line near top of cliffs.
From cor. of secs. 4, 5, 8 and 9, measure a Base N. 0° 5' E., 44.76 chs.
From N. end of Base, flag brs. S. 51° 55' E.
Included angles are 52° 00', 38° 00' and 90° 00', the sum of which is 180° 00'.
Triangulated dist. on random sec. line from cor. of secs. 4, 5, 8 and 9 to triangulation point near top of cliffs is obtained by



57.29

Tang. 52° 00' x Base or 1.27994 x 44.76 = 57.29 chs.
Triangulation point.

79.92

Continue line and measurement by chaining.
Fall 2 lks. N. of the cor. of secs. 3, 4, 9 and 10.
Thence, N. 89° 54' W., on a true line, bet. secs. 4 and 9.
Over mountainous land, thru. scattering timber and undergrowth.

6.50

Descend 160 ft., over NW. slope.
Gulch, course N. 20° E. Ascend 190 ft., over E. slope.

14.30

Spur, slopes N. 15° E. Desc. 70 ft. over NW. slope.

17.20

Gulch, course N. 15° E. Ascend 120 ft., over NE. slope, to

22.63

Triangulation point.

22.96

E. rim of National Canyon, brs. N. and S. Desc. 250 ft., over cliff, facing W. Discontinue chaining, and triangulate measurement to witness cor. to 1/4 sec. cor., as hereinbefore described.

39.90

True point for cor. falls on face of cliff, and is inaccessible.

40.19

Foot of cliff, brs. N. and S.

40.20

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

1/4 S 4 W C
S 9
1920

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

Continue line and measurement by chaining over mountainous land, in National Canyon, thru. scattering timber and undergrowth.

63.22

Descend 475 ft. over W. slope, to Gulch, course NW. Ascend 30 ft., over NE. slope, to

64.50

Descend 115 ft., over NW. slope.

76.72

Center of bottom of National Canyon, 2 chs. wide, course NE. Ascend 30 ft., over E. slope, to

79.92

The cor. of secs. 4, 5, 8 and 9.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, scattering cedar and pine.
Undergrowth, scattering sage brush and cedar. Poor grass.

42 Part (completion) of Subdivision lines of T.31 N., R.6 W.

Chains.	
40.00	N.0°20'E., on a random line, bet. secs.4 and 5. Set temp. $\frac{1}{4}$ sec.cor.
80.13	Fall 5 lks.E. of the cor. of secs.4,5, 32 and 33 on N.bdy. of Tp, hereinbefore described.
	Thence, S.0°18'W., on a true line, bet. secs. 4 and 5.
4.13	Over broken, mountainous land, thru. scattering timber and undergrowth, along E. slope, on W. wall of National Canyon. Descend 25 ft., over E. slope, to Wash, course E. Continue over E. slope, ascending 220 ft. to
37.10	Wash, course E. Ascend 55 ft., over E. slope, to
40.13	Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bed rock, supported in a mound of stone, for $\frac{1}{4}$ sec.cor., marked on brass cap,
$\frac{1}{4}$ S 5 S 4 1920	
	and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
42.00	Continue over broken, mountainous land, thru. scattering timber and undergrowth, along E. slope on W. wall of National Canyon. Descend slightly to Wash, course E. Continue over E. slope, ascending 50 ft. to
55.10	Wash, course E. Continue over E. slope, ascending 90 ft. to
80.13	The cor. of secs.4,5,8 and 9. Land, broken and mountainous. Soil, rocky, 4th rate. Timber, very scattering pine and cedar. Undergrowth, scattering sage brush, scrub cedar, yucca and cactus. Poor grass.

1.50	From the cor. of secs.5,8,31 and 32, on S. bdy. of Tp., described in Book "D," N.0°03'W., bet. secs.31 and 32. Over rolling and mountainous land, thru. scattering timber and undergrowth, across draw, course S.70° E. N. edge of draw, brs. E. and W. Leave draw. Ascend 100 ft., over S. slope.
16.86	Spur. slopes NE. Descend 20 ft., over NW. slope.
22.40	Draw, course E. Asc. 40 ft., over SE. slope.
29.84	Spur, slopes NE. Descend 43 ft., over N. slope, to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., in a mound of stone, for $\frac{1}{4}$ sec.cor., marked on brass cap,
$\frac{1}{4}$ S31 S32 1920	
	from which, A pine, 7 ins. in diam., brs. S.53 $\frac{1}{4}$ °E., 76 lks. dist., mkd. $\frac{1}{4}$ S 32 BT.
	A pine, 10 ins. in diam., brs. N.81°W., 54 lks. dist., mkd. $\frac{1}{4}$ S 31 BT.
47.40	Continue over rolling and mountainous land, thru. scattering timber and undergrowth. Descend 45 ft. over N. slope.
55.82	Draw, course E. Asc. 140 ft., over S. slope.
61.77	Spur, slopes E. Desc. 43 ft., over NE. slope, to
63.00	Head of draw, course E. Ascend 50 ft., over E. slope.
80.00	Descend 75 ft., over NE. slope, to
	Set an iron post, 3 ft. long, 2 ins. in diam., in a mound of stone, for cor. of secs.29,30, 31 and 32, marked on brass cap,

Chains.

T31N R6 W
S30 S29
S31 S32
1920

from which,
A pine, 16 ins. in diam., brs. N. 52 $\frac{1}{2}$ ° E., 131 lks.
dist., mkd. T31N R6W S29 BT.
A pine, 9 ins. in diam., brs. S. 79 $\frac{1}{2}$ ° E., 103 lks.
dist., mkd. T31N R6W S32 BT.
A pine, 8 ins. in diam., brs. S. 58° W., 71 lks.
dist., mkd. T31N R6W S31 BT.
A pine, 6 ins. in diam., brs. N. 81 $\frac{1}{2}$ ° W., 50 lks.
dist., mkd. T31N R6W S30 BT.

Land, rolling and mountainous.
Soil, gravelly and rocky, 2nd and 3rd rate.
Timber, scattering cedar and pine.
Undergrowth, scattering scrub cedar, sagebrush and dogwood.
Fair grass.

40.00
80.24
27.65
28.85
37.25
40.12

S. 89° 51' E., on a random line, bet. secs. 29 and 32.
Set temp. $\frac{1}{4}$ sec. cor.
Fall 39 lks. S. of the cor. of secs. 28, 29, 32 and 33.
Thence
S. 89° 53' W., on a true line, bet. secs. 29 and 32.
Over roughly rolling and mountainous land, thru. scattering
timber & undergrowth. Desc. 100 ft., over W. slope.
National Wash, course N. 30° W. Asc. 50 ft., over E. slope.
Point of spur, slopes N. Desc. 255 ft., over W. slope.
Gulch, course N. Asc. 17 ft., over E. slope, to
Set an iron post, 3 ft. long, 1 in. in diam., in a mound
of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 29
S 32
1920

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of
of cor.
Continue over roughly rolling and mountainous, land, thru.
scattering timber and undergrowth. Ascend 40 ft., over
E. slope.
Spur, slopes N. Descend 100 ft., over NW. slope.
Draw, course NE. Ascend 170 ft., over E. slope.
Spur, slopes N. Descend 60 ft., over NW. slope.
Draw, course NE. Asc. 170 ft., over SE. slope.
Spur, slopes NE. Desc. 23 ft., over NW. slope, to
The cor. of secs. 29, 30, 31 and 32.

48.75
55.85
61.00
66.55
77.25
80.24

Land, roughly rolling and mountainous.
Soil, gravelly and rocky, 3rd and 4th rate.
Timber, scattering cedar and pine.
Undergrowth, scattering scrub cedar and sage brush,
Poor grass.

40.00
79.56
5.40
13.06

N. 89° 51' W., on a random line, bet. secs. 30 and 31.
Set temp. $\frac{1}{4}$ sec. cor.
Fall 14 lks. S. of the cor. of secs. 25, 30, 31 and 36,
on W. bdy. of Tp., hereinbefore described.
Thence,
S. 89° 45' E., on a true line, bet. secs. 30 and 31.
Over mountainous land, thru. scattering timber and under-
growth.
Descend 83 ft., over E. slope.
Draw, course N. 20° E. Ascend 120 ft. over NW. slope.
Spur, slopes N. 15° E. Desc. 440 ft., over broken E. slope.

44 Part (completion) of Subdivision lines of T.31 N., R.6 W.

Chains.

31.56 Draw, course N. Ascend 250 ft. over cliffs, bearing N. and S., facing W.
 36.16 Spur, slopes NW. Desc. 45 ft., over NE. slope, to
 39.56 Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in the ground, to bed rock, supported in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 30
 S 31
 1920

from which,
 A pine, 16 ins. in diam., brs. S. 29 $\frac{1}{2}$ ° E., 50 lks. dist., mkd. $\frac{1}{4}$ S 31 BT.
 A pine, 13 ins. in diam., brs. N. 40 $\frac{1}{2}$ ° W., 101 lks. dist., mkd. $\frac{1}{4}$ S 30 BT.

Continue over mountainous land, thru. scattering timber and undergrowth. Desc. 15 ft., over NE. slope.
 40.70 Head of draw, course NW. Asc. 200 ft., over NW. slope.
 50.20 Spur, slopes NE. Descend 170 ft., over NE. slope.
 64.86 Draw, course NE. Ascend 35 ft., over NW. slope.
 68.76 Spur, slopes NE. Descend 80 ft., over E. slope.
 74.66 Draw, course N. 20° E. Asc. 65 ft., over NW. slope, to
 79.56 The cor. of secs. 29, 30, 31 and 32.

Land, mountainous.
 Soil, rocky, sandstone and shale, 4th. rate.
 Timber, scattering cedar and pine.
 Undergrowth, scattering scrub cedar, sagebrush and dog-wood.
 Poor grass.

N. 0° 03' W., bet. secs. 29 and 30.
 Over mountainous land, thru. scattering timber and undergrowth.

Descend 457 ft., over NW. slope, to
 11.90 Top of cliff, 100 ft. high, brs. NE. and SW. facing N. From foot of cliff, descend 110 ft. over NW. slope.
 28.50 Gulch, course W. Ascend 150 ft., over S. slope.
 34.00 Spur, slopes S. 80° W. Desc. 70 ft., over N. slope, to
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 17 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$
 S 30 | S 29
 1920

from which,
 A pine, 8 ins. in diam., brs. N. 44° E., 21 lks. dist., mkd. $\frac{1}{4}$ S 29 BT.
 A pine, 6 ins. in diam., brs. S. 60 $\frac{1}{2}$ ° W., 10 lks. dist., mkd. $\frac{1}{4}$ S 30 BT.

Continue over mountainous land, thru. scattering timber and undergrowth. Descend 85 ft., over N. slope.
 49.80 National Wash, course W. Ascend 90 ft., over SW. slope.
 59.70 Spur, slopes W. Descend 180 ft., over N. slope.
 72.30 Gulch, course NW. Ascend 125 ft., over SW. slope, to
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 10 ins. in the ground, to bed rock, supported in a mound of stone, for cor. of secs. 19, 20, 29 and 30, marked on brass cap,

T31N | Row
 S19 | S20
 S30 | S29
 1920

from which,
 A pine, 8 ins. in diam., brs. N. 18° E., 40 lks. dist., mkd. T31N Row S20 BT.

Part (completion) of Subdivision lines of T. 31 N., R. 6 W. 45

Chains.

- A pine, 8 ins. in diam., brs. S. $74\frac{1}{2}^{\circ}$ E., 22 lks. dist., mkd. T31N ROW S29 BT.
- A pine, 6 ins. in diam., brs. S. $24\frac{1}{4}^{\circ}$ W., 50 lks. dist., mkd. T31N ROW S30 BT.
- A pine, 15 ins. in diam., brs. N. $80\frac{1}{2}^{\circ}$ W., 57 lks. dist., mkd. T31N ROW S19 BT.

Land, mountainous.
 Soil, gravelly and rocky, 3rd and 4th rate.
 Timber, scattering cedar and pine.
 Undergrowth, scattering scrub cedar and sage brush.
 Poor grass.

- 49.00
- 80.08
- 15.18
- 20.20
- 30.20
- 40.04

N. $89^{\circ}53'$ E., on a random line, bet. secs. 20 and 29.
 Set temp. $\frac{1}{4}$ sec. cor.
 Fall 49 lks. N. of the cor. of secs. 20, 21, 28 and 29.
 Thence,
 N. $89^{\circ}40'$ W., on a true line, bet. secs. 20 and 29.
 Over rolling land, thru. scattering timber and undergrowth.
 Descend 35 ft., over SW. slope.
 Head of draw, course SE. Ascend 15 ft., over E. slope.
 Spur, slopes SE. Descend 30 ft., over SW. slope.
 Draw, course SE. Ascend 70 ft., over E. slope, to
 Set an iron post, 3 ft. long, 1 in. in diam., 15 ins. in the ground, supported in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 20
 S 29
 1920

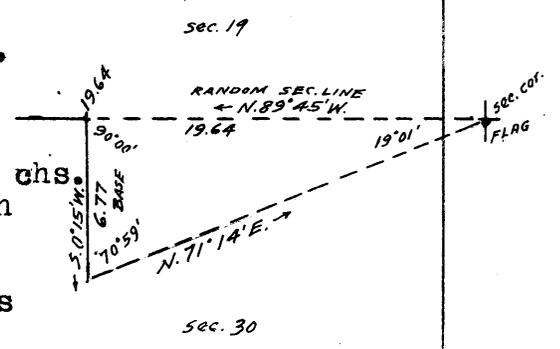
- from which,
- A pine, 9 ins. in diam., brs. S. 9° E., 67 lks. dist., mkd. S 29 BT.
 - A pine, 12 ins. in diam., brs. N. $11\frac{1}{2}^{\circ}$ W., 99 lks. dist., mkd. S 20 BT.

- 60.00
- 80.08

Continue over rolling land, thru. scattering timber and undergrowth. Ascend 70 ft., over E. slope.
 E. rim of National Canyon, brs. N. and S.
 Leave rolling, and enter mountainous land in National Canyon. Descend 400 ft., over W. slope, to
 The cor. of secs. 19, 20, 29 and 30.
 Land, rolling and mountainous.
 Soil, gravelly and rocky, 2nd and 3rd rate.
 Timber, scattering cedar and pine.
 Undergrowth, scattering scrub cedar, sagebrush and dog-wood.
 Fair grass.

N. $89^{\circ}45'$ W., on a random line, bet. secs. 19 and 30.
 The beginning of this random line passes over rugged cliffs forming walls of National Canyon, and chaining is impracticable; therefore, triangulate a portion of the line, as described as follows, and as shown on the diagram hereon:

Set flag on the cor. of secs. 19, 20, 29 and 30.
 From a point ahead on random sec. line on W. rim of canyon, measure a Base, S. $0^{\circ}15'$ W., 6.77 chs.
 From S. end of Base, the flag on sec. cor. brs. N. $71^{\circ}14'$ E.
 Included angles are $70^{\circ}59'$, $19^{\circ}01'$ and $90^{\circ}00'$, the sum of which is $180^{\circ}00'$.
 Triangulated dist. on random sec. line is obtained by
 Tang. $70^{\circ}59'$ x Base or $2.90147 \times 6.77 = 19.64$ chs.



46 Part (completion) of Subdivision lines of T.31 N. R.6 W.

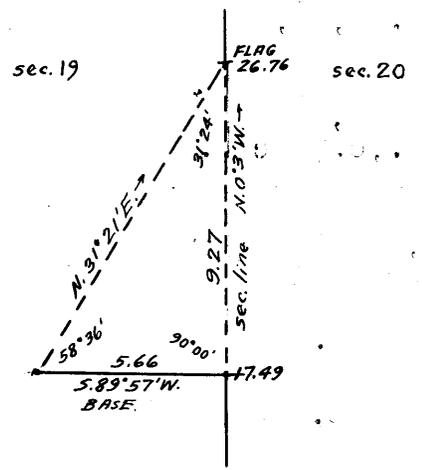
Chains.
 19.64 Triangulation point.
 Continue line and measurement by chaining.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.64 Fall 40 lks. N. of the cor. of secs. 19, 24, 25 and 30, on W. bdy. of Tp., hereinbefore described.
 Thence:
 N. $89^{\circ}58'E.$, on a true line, bet. secs. 19 and 30.
 Over roughly rolling land, thru. scattering timber and undergrowth.
 Ascend 23 ft., over W. slope.
 5.00 Spur, slopes N. Descend 3 ft., over E. slope.
 10.60 Draw, course N. Ascend 63 ft., over W. slope.
 14.90 Spur, slopes S. Desc. 120 ft., over E. slope.
 24.70 Draw, course SE. Ascend 85 ft., over SW. slope.
 39.00 Spur, slopes S. Descend slightly over E. slope, to
 39.64 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground, supported in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$$\begin{array}{r} \frac{1}{4} S 19 \\ S 30 \\ 1920 \end{array}$$

 from which,
 A pine, 6 ins. in diam., brs. S. $59^{\circ}E.$, 32 lks. dist., mkd. $\frac{1}{4} S 30$ BT.
 A pine, 14 ins. in diam., brs. N. $36\frac{1}{4}W.$, 204 lks. dist., mkd. $\frac{1}{4} S 19$ BT.
 Continue over roughly rolling and mountainous land, thru. scattering timber and undergrowth.
 Descend 16 ft., over E. slope, to
 41.00 Draw, course S. Ascend 60 ft., over W. slope.
 45.00 Spur, slopes S. Descend 70 ft., over SE. slope.
 50.00 Draw, course S. Asc. 20 ft., over S. slope, to
 60.00 Triangulation point. West rim of National Canyon, brs. N. and S. Desc. 370 ft., over cliffs facing E.
 70.00 (Approximate) Bottom of National Canyon, course N. Ascend 75 ft., over steep W. slope, to
 79.64 The cor. of secs. 19, 20, 29 and 30.
 Land, roughly rolling and mountainous.
 Soil, gravelly and rocky, 2nd and 3rd rate.
 Timber, scattering cedar and pine.
 Undergrowth, scattering sage brush and dogwood.
 Poor grass.

N. $0^{\circ}03'W.$, bet. secs. 19 and 20.
 Over mountainous land, thru. scattering timber and undergrowth in National Canyon.

Ascend 35 ft., over SW. slope.
 3.50 Point of spur, slopes W. Desc. 210 ft., over N. slope.
 9.60 Bottom of National Canyon, course NE. Ascend 160 ft., over SE. slope,
 17.49 Point of spur, slopes SE.
 Descend 200 ft. over cliff, facing NE. Chaining is impracticable; therefore, triangulate as described as follows, and as shown on the diagram hereon:



Measure a Base S. $89^{\circ}57'W.$, 5.66 chs.
 Set flag ahead on sec. line at point of spur, sloping W.
 From W. end of Base, flag brs. N. $31^{\circ}21'E.$
 Included angles are $58^{\circ}36'$, $31^{\circ}24'$ and $90^{\circ}00'$, the sum of which is $180^{\circ}00'$.
 Triangulated dist. on sec. line is obtained by
 Tang. $58^{\circ}36' \times$ Base or $1.63826 \times 5.66 = 9.27$ chs., which added to 17.49 chs. gives 26.76 chs.

48. Part (completion) of Subdivision lines of T1 31 N. R. 6 W.

Chains.

80.06 Fall 2 lks. S. of the cor. of secs. 16, 17, 20 and 21.
 Thence,
 N. 89° 47' W., on a true line, bet. secs. 17 and 20.
 Over rolling land, thru scattering timber and undergrowth,
 along N. slope, with slight change in elevation.
 5.20 Descend 92 ft., over NW. slope, to
 17:70 Wash, course NW. Descend slightly to
 22:60 Wash, course NW. Descend 25 ft., over N. slope, to
 34:70 Wash, course NE. Ascend 43 ft., over NE. slope, to
 40.03 Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in
 the ground, to bed rock, supported in a mound of
 stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 17
 S 20
 1920

from which,

A cedar, 18 ins. in diam., brs. S. 57° E., 39 lks.
 dist., mkd. $\frac{1}{4}$ S 20 BT.

A pine, 6 ins. in diam., brs. N. 46° W., 36 lks.
 dist., mkd. $\frac{1}{4}$ S 17 BT.

Continue over rolling land, thru scattering timber and
 undergrowth. Asc. 25 ft., over NE. slope.

45.00 Descend 45 ft., over N. slope, to

50.90 E. rim of National Canyon, brs. N. and S. Leave rolling, and
 enter mountainous land. Desc. 797 ft. to sec. cor.,
 over steep W. slope, broken by cliffs bearing N. and S.

80.06 The cor. of secs. 17, 18, 19 and 20.

Land, rolling and mountainous.

Soil, rocky and gravelly, 3rd and 4th rate.

Timber scattering cedar and pine.

Undergrowth, scattering sage brush and yucca.

Poor grass.

29.70 S. 89° 58' W., on random line, bet. secs. 18 and 19.
 Discontinue chaining at this point, owing to high cliffs
 which cross the line, rendering chaining impracticable.
 Triangulate as described as follows, and as shown on the
 diagram hereon;

Set flag ahead on random
 sec. line at top of cliffs.

From cor. of secs. 17, 18, 19 and 20,
 measure a Base N. 0° 2' W., 12.62
 chs.

From N. end of Base, flag brs. S. 69°
 31' W.

Included angles are 69° 33', 90° 00'
 and 20° 27', the sum of which is
 180° 00'.

Triangulated dist. on random sec. line from sec. cor. to
 flag is obtained by

Tang. 69° 33' x base or 2.68175 x 12.62 = 33.84 chs.

33.84 Triangulation point.

Continue line and measurement, by chaining.

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

79.03 Fall 5 lks. S. of the cor. of secs. 13, 18, 19 and 24 on the
 W. bdy. of the Tp., hereinbefore described.

Thence,

East, on a true line, bet. secs. 18 and 19.

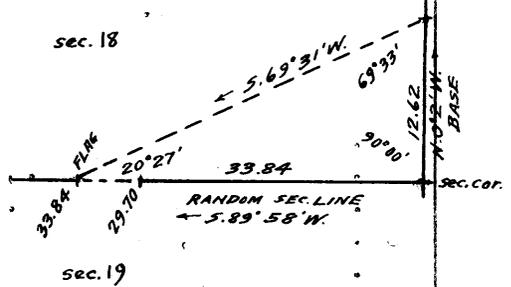
Over broken and mountainous land, thru scattering tim-
 ber and undergrowth.

Descend 90 ft., over NE. slope.

8.20 Gulch, course NE. Ascend 40 ft., along N. slope.

24.00 Rim of side canyon, brs. NE. and SW. Desc. 80 ft., over
 broken E. slope, to

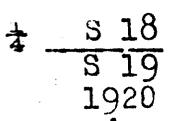
27.90 Bottom of side canyon, course SE. Desc. 25 ft., over S.
 slope, to



Part (completion) of Subdivision lines of T. 31 N., R. 6 W. 49

Chains.

- 32.30 Bend in bottom of side canyon, course SE. from SW. Desc. 30 ft. over S. slope, to
- 33.90 N. rim of side canyon, brs. E. and SW. Desc. 40 ft., over S. slope, to
- 39.63 Set an iron post 3 ft. long, 1 in. in diam., 10 ins. in the ground, to bed rock, supported in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,



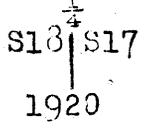
from which;

- A pine, 10 ins. in diam., brs. N. $33\frac{3}{4}^{\circ}$ E., 100 lks. dist., mkd. $\frac{1}{2}$ S 18 BT.
- A pine, 8 ins. in diam., brs. S. $40\frac{1}{2}^{\circ}$ W., 96 lks. dist., mkd. $\frac{1}{2}$ S 19 BT.

- Continue over mountainous land, thru. scattering timber and undergrowth. Desc. 150 ft., over S. slope, to
- 45.78 Triangulation point at top of cliffs, brs. NE. and SW. facing SE. forming W. rim of National Canyon. Triangulated measurement as hereinbefore described.
- 49.93 Foot of cliffs, 400 ft. below top. Desc. 200 ft., over SE. slope, to
- 54.63 Gulch, course NW. for about 100 lks.; thence NE. Asc. over broken N. slope, to
- 65.00 Desc. 100 ft., over broken NE. slope,
- 70.70 Bottom of National Canyon, 50 lks. wide, course N. Asc. 100 ft. over broken W. slope, to
- 79.03 The cor. of secs. 17, 18, 19 and 20. Land, broken and mountainous. Soil, rocky, 4th rate. Timber, scattering cedar and pine. Undergrowth, scattering scrub cedar and sagebrush. Poor grass.

N. $0^{\circ}03'$ W., bet. secs. 17 and 18.

- Over broken mountainous land, thru. scattering timber and undergrowth, in National Canyon.
- Descend 150 ft., over broken NW. slope on E. wall of canyon.
- 19.00 Bottom of National Canyon, 50 lks. wide, course NE. Asc. slightly over E. slope.
- 25.40 Trail brs. NE. and SW.
- 25.80 Ascend 150 ft., over broken SE. slope on W. wall of canyon, to
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground, to bed rock, supported in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,



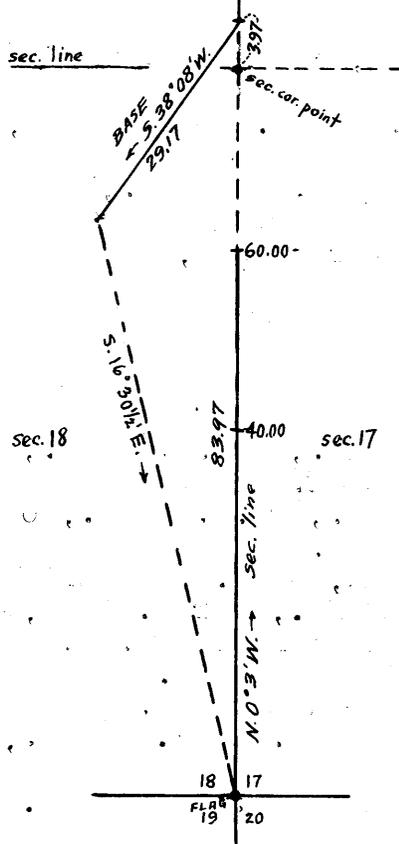
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

- Continue over broken, mountainous land, thru. scattering timber and undergrowth, in National Canyon.
- Ascend 320 ft., over broken SE. slope, on W. wall of canyon, to
- 60.00 Foot of high cliffs, bearing NE. and SW. facing SE., over which chaining is impracticable; therefore, obtain the measurement of the remainder of this mile by triangulation, as described as follows, and as shown on the diagram hereon:

Set flag on cor. of secs. 17, 18, 19 and 20.
 From a point ahead on sec. line, near W. rim of National Canyon, measure a base S. $38^{\circ}08'$ W.,

50 Part (completion) of Subdivision lines of T.31 N., R. 6 W.

Chains.



29.17 chs.
 From SW. end of Base, flag brs. S. 16° 30 1/2' E.
 Included angles are 125° 21 1/2', 38° 11' and 16° 27 1/2', the sum of which is 180° 00'.
 Triangulated dist. on sec. line from sec. cor. to flag is obtained by

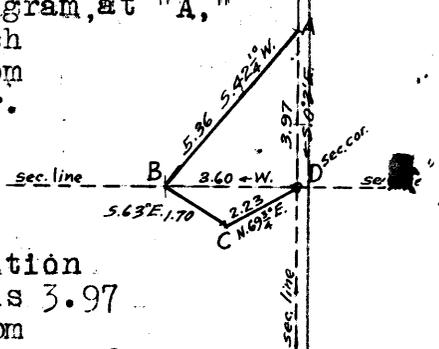
$$\frac{\text{sine } 125^{\circ}21\frac{1}{2}' \times \text{Base}}{\text{sine } 16^{\circ}27\frac{1}{2}'}$$
 or

$$.81554 \times 29.17 = .83.97 \text{ chs.}$$

$$.28332$$

The triangulation point near W. rim of National Canyon is therefore on line bet. secs. 7 and 8, at 3.97 chs. N. 0° 3' W. from point for cor. of secs. 7, 8, 17 and 18.
 Said sec. cor. point is accessible, but measurement from triangulation point thereto is made by means of a traverse as described as follows, and as shown on the diagram hereon.

From triangulation point indicated on diagram, at "A,"
 S. 42 1/2° W., 5.36 chs. to point "B," which is 3.60 chs. W. from point for sec. cor.
 Thence
 S. 63° E., 1.70 chs. to point "C,"
 Thence,
 N. 69 3/4° E., 2.23 chs. to point "D,"



which by computation of the traverse is 3.97 chs. S. 0° 3' E. from point "A" and is therefore the proper point for the establishment of the cor. of secs. 7, 8, 17 and 18.

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

T31N	Row
S 7	S 8
S18	S17
1920	

from which,
 A pine, 14 ins. in diam., brs. S. 9° W., 81 lks. dist., mkd. T31N Row S18 BT.
 and raise a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor.

Land, broken and mountainous.
 Soil, rocky, 4th rate.
 Timber, scattering cedar and pine.
 Undergrowth, scattering scrub cedar and sage brush.
 Poor grass.

The W. 1/2 of line, bet. secs. 8 and 17 passes over cliffs on W. wall of National Canyon, and chaining is impracticable; therefore, triangulate as described as follows, and as shown on the diagram hereon.

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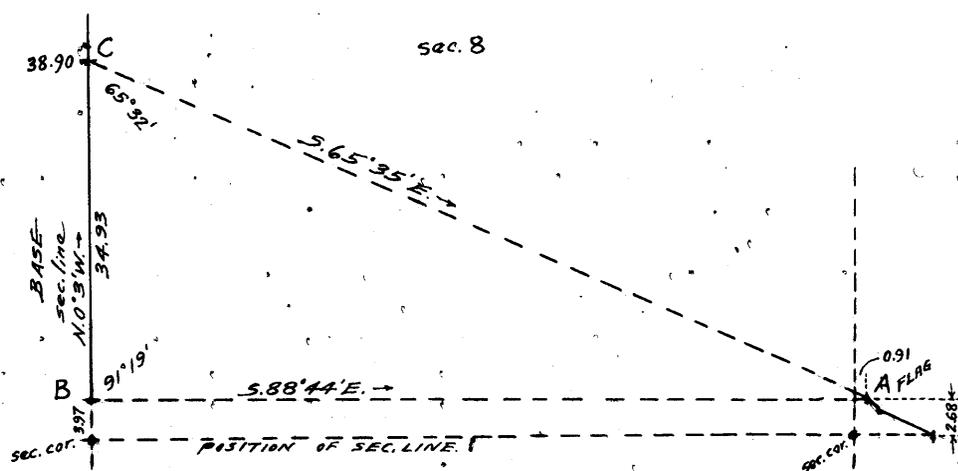
Part (completion) of Subdivision lines of T. 31 N., R. 6 W. 51

Chains.

sec. 7

sec. 8

sec. 9



Set flag at an angle point on the traverse executed in connection with the survey of the line bet. secs. 8 and 9, as hereinbefore described. Said flag is indicated on diagram at "A" and is 91 lks. E. and 268 lks. N. of cardinal lines thru. the cor. of secs. 8, 9, 10 and 17. From triangulation point "B" which is 3.97 chs. N. 0° 3' W. from cor. of secs. 7, 8, 17 and 18, the flag "A" brs. S. 88° 44' E.

From point "B" measure a Base N. 0° 3' W., 34.93 chs. on line bet. secs. 7 and 8, to 38.90 ch. station thereon indicated on diagram at "C."

From point "C" the bearing to flag point "A" is S 65° 35' E. Included angles of "ABC" are 23° 09', 91° 19' and 65° 32', the sum of which is 180° 00'.

Triangulated dist. "A-B" is obtained by $\frac{\text{side } 65^\circ 32' \times \text{Base}}{\text{side } 23^\circ 09'}$ or $\frac{.91020 \times 34.93}{.39314} = 80.87 \text{ chs.}$,

from which the distance between the sec. cors. is found to be 79.94 chs., and true course is N. 89° 40' W.

From the cor. of secs. 8, 9, 10 and 17, N. 89° 40' W., on a true line, bet. secs. 8 and 17.

Over broken and mountainous land, thru. scattering timber and undergrowth. Chaining measurement for 40.22 chs. Descend 124 ft., over broken SW. slope.

- 6.00 Foot of descent, brs. NW. and SE. Enter bottom of side canyon, course NW.
- 9.00 Leave bottom of side canyon. Ascend 155 ft., over NE. slope.
- 21.00 Point of spur, slopes N. Descend 280 ft., over NW. slope.
- 34.25 Foot of descent, brs. N. and S. Thence across bottom of National Canyon, course NE.
- 38.45 Center of wash, 3 chs. wide, with banks 5 ft. high, course NE. in bottom of canyon.
- 39.97 True point for $\frac{1}{4}$ sec. cor. falls at foot of W. bank of wash, where it is impracticable to monument the $\frac{1}{4}$ sec. cor.
- 40.22 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for witness cor. to the $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 8 WC
 S 17
 1920

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

Continue over broken and mountainous land; thru. scattering timber and undergrowth, ascending about 600 feet over broken E. slope of W. wall of National Canyon, measurement to sec. cor. by triangulation, hereinbefore described.

79.94 The cor. of secs. 7, 8, 17 and 18, on W. wall of National Canyon.

Land, broken and mountainous.
 Soil, rocky, 4th rate.
 Timber, scattering cedar and pine.
 Undergrowth, scattering sagebrush & scrub cedar. Poor grass.

52. Part (completion) of Subdivision lines of T.31 N. R.6 W.

chains.

West, on a random line, bet. secs. 7 and 18, measurement by traverse, hereinbefore described, to

3.60 Point on traverse, hereinbefore described.

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

79.46 Intersect W. bdy. of Tp., at the cor. of secs. 7, 12, 13 and 18, hereinbefore described.

Thence,

S. $89^{\circ}51'$ E., on a true line, bet. secs. 7 and 18.

Over gently rolling land, thru. scattering timber and undergrowth. Desc. 25 ft., over NE. slope.

8.80 Center of shallow wash, 2 chs. wide, course NW.

13.00 Center of shallow wash, 3 chs. wide, course NW. Thence over nearly level N. slope with slight change in elevation.

36.50 Shallow wash, course N. Ascend slightly to

39.46 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground, supported in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 7
S 18
1920

from which,

A pine, 10 ins. in diam., brs. N. 23° E., 134 lks.
dist., mkd. $\frac{1}{4}$ S 7 BT.

A pine, 8 ins. in diam., brs. S. 75° W., 41 lks.
dist., mkd. $\frac{1}{4}$ S 18 B. T. 18 ft.

Leave gently rolling, and enter broken and roughly rolling land, thru. scattering timber and undergrowth.

Descend 100 ft., over E. slope.

57.40 Wash, course N. Ascend 40 ft., over W slope.

73.00 W. rim of National Canyon, brs. NE. and SW. Leave rolling and enter mountainous land in National Canyon. Desc. 45 ft., over E. slope, to

75.86 Edge of cliffs, brs. NE. and SW. Descend abruptly. Measurement to sec. cor. by traverse, hereinbefore described.

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

Land, gently rolling in W. $\frac{1}{4}$, and broken, roughly rolling and mountainous, in E. $\frac{1}{2}$.

Soil, gravelly and rocky, 2nd and 3rd rate.

Timber, scattering cedar and pine.

Undergrowth, scattering sage brush and yucca.

Poor grass.

N. $0^{\circ}03'$ W., bet. secs. 7 and 8.

Over broken and mountainous land, thru. scattering timber and undergrowth, ascending over cliffs on W. wall of National Canyon.

Measurement of 3.97 chs. by triangulation hereinbefore described.

2.33 W. rim of National Canyon, brs. NE. and SW. Leave canyon; enter roughly rolling and broken land.

3.97 Traverse and triangulation point.

5.00 Descend 215 ft., over N. slope.

22.70 Ravine, course NE. Asc. 200 ft., over SE. slope.

39.00 Spur, slopes NE. Desc. 10 ft. to

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

$\frac{1}{4}$
S 7 | S 8
1920

from which,

A pine, 14 ins. in diam., brs. N. $64\frac{1}{2}^{\circ}$ E., 237 lks.
dist., mkd. $\frac{1}{4}$ S 8 BT.

A pine, 12 ins. in diam., brs. S. $78\frac{3}{4}^{\circ}$ W., 200 lks.
dist., mkd. $\frac{1}{4}$ S 7 BT.

Part (completion) of Subdivision lines of T.31 N. R. 6 W. 53

Chains.

Continue over roughly rolling and broken land, thru. scattering timber and undergrowth.
 Descend 180 ft., over N. slope.
 Wash, course E, Asc. 160 ft., over SE. slope.
 Spur, slopes SE. Desc. 75 ft., over N. slope.
 Draw, course E. Asc. 30 ft., over SE. slope, to
 Set an iron post, 3 ft. long, 2 ins. in diam., 8 ins. in the ground, to bed rock, supported in a mound of stone, for cor. of secs. 5, 6, 7 and 8, marked on brass cap.

55.30
 70.00
 78.00
 80.00

T31N	R6W
S 6	S 5
S 7	S 8

1920

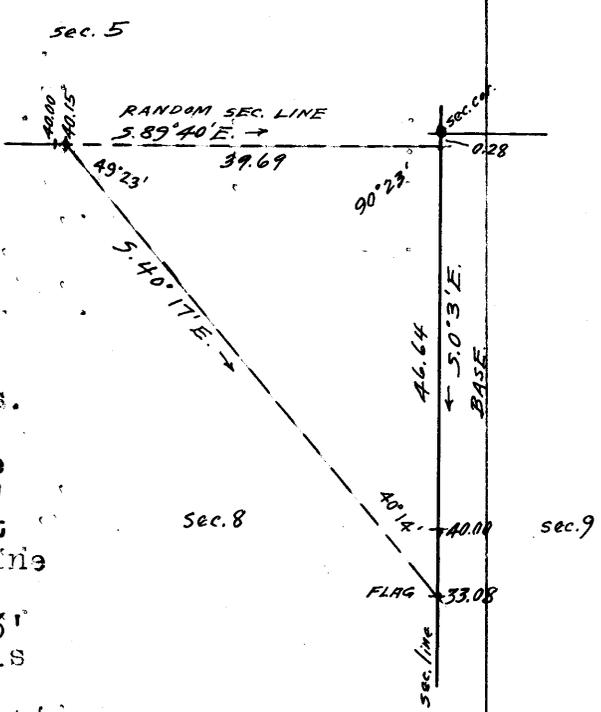
- from which,
- A cedar, 24 ins. in diam., brs. N. 17 1/2° E., 117 lks. dist., mkd. T31N R6W S5 BT.
 - A cedar, 10 ins. in diam., brs. S. 12 1/4° E., 102 lks. dist., mkd. T31N R6W S8 BT.
 - A cedar, 16 ins. in diam., brs. S. 41° W., 83 lks. dist., mkd. T31N R6W S7 BT.
 - A pine, 16 ins. in diam., brs. N. 54 1/2° W., 38 lks. dist., mkd. T31N R6W S6 BT.

Land, mountainous, broken and rolling.
 Soil, gravelly, 3rd rate.
 Timber, scattering cedar and pine.
 Undergrowth, scattering sage brush.
 Poor grass.

40.00
 40.15

S. 89° 40' E., on a random line, bet. secs. 5 and 8.
 Set temp. 1/4 sec. cor.
 W. rim of National Canyon, Discontinue chaining, and triangulate as described as follows, and as shown on the diagram hereon:

A flag set at 28 lks. S. of the cor. of secs. 4, 5, 8 and 9, brs. S. 89° 40' E. from 40.15 ch. station; therefore, the random sec. line projected will fall 28 lks. S. of said sec. cor., giving a true course for the line bet. secs. 5 and 8, N. 89° 52' W.
 A flag set at 33.08 ch. station on line, bet. secs. 8 and 9, gives a base for this triangulation, S. 0° 3' E., 46.64 chs. (46.92 chs. - 0.28 chs.)
 Flag at 33.08 ch. station on line bet. secs. 8 and 9, brs. S. 40° 17' E. from triangulation point at 40.15 ch. station, on random line bet. secs. 5 and 8.



Included angles are 49° 23', 90° 23' and 40° 14', the sum of which is 180° 00'.

Triangulated dist. of sec. line, bet. secs. 5 and 8 is obtained by

$$\frac{\text{sine } 40^\circ 14' \times \text{Base}}{\text{sine } 49^\circ 23'}$$
 or $\frac{.64590 \times 46.64}{.75908} = 39.69$ chs., which

added to 40.15 chs., gives 79.84 chs., S. 89° 40' E. from cor. of secs. 5, 6, 7 and 8 for the position of the triangulation point at flag 28 lks. S. of cor. of secs. 4, 5, 8 and 9.

79.84

Fall 28 lks. S. of the cor. of secs. 4, 5, 8 and 9, near bottom of National Canyon.

54. Part (completion) of Subdivision lines of T. 31 N., R. 6 W.

Chains.

- Thence,
N. 89°52' W., on a true line, bet. secs. 5 and 8.
Over broken and mountainous land, thru. scattering timber
and undergrowth.
Ascend about 1000 feet over cliffs, on W. wall of National
Canyon.
- 39.68 Triangulation point, at W. rim of National Canyon, brs. NE.
and SW. Leave mountainous and enter roughly rolling
land. Continue line and measurement by chaining.
- 39.92 Set an iron post, 3 ft. long, 1 in. in diam., in a mound
of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,
- $$\begin{array}{r} \frac{1}{4} \text{ S } 5 \\ \text{S } 8 \\ 1920 \end{array}$$
- and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.
of cor.
Continue over roughly rolling land, thru. scattering tim-
ber and undergrowth.
Ascend 95 ft. over E. slope.
- 49.80 Spur, slopes SE. Desc. 215 ft., over SW. slope.
- 75.50 Wash, course SE. near head. Asc. 50 ft., over E. slope, to
- 79.84 The cor. of secs. 5, 6, 7 and 8.
Land, mountainous, broken and rolling.
Soil, gravelly and rocky, 3rd and 4th rate.
Timber, scattering cedar and pine.
Undergrowth, scattering scrub cedar and sagebrush.
Poor grass.
-
- N. 89°51' W., on a random line, bet. secs. 6 and 7.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.31 Fall 32 lks. N. of the cor. of secs. 1, 6, 7 and 12, on W. bdy.
of Tp., hereinbefore described.
- Thence,
N. 89°55' W., on a true line, bet. secs. 6 and 7.
Over roughly rolling land, thru. scattering timber and
undergrowth.
Descend 35 ft., over E. slope.
- 3.50 Wash, course NE. Ascend 100 ft., over NW. slope.
- 19.90 Spur, slopes N. 15° E. Descend 15 ft., over E. slope.
- 21.50 Wash, course N. 20° W.. Thence over gently rolling land.
Ascend 20 ft., over N. slope, to
- 39.31 Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in
the ground, to bed rock, supported in a mound of stone
for $\frac{1}{4}$ sec. cor. marked on brass cap,
- $$\begin{array}{r} \frac{1}{4} \text{ S } 66 \\ \text{S } 7 \\ 1920 \end{array}$$
- from which,
A pine, 7 ins. in diam., brs. N. 29° E., 59 lks.
dist., mkd. $\frac{1}{4}$ S 6 BT.
A pine, 6 ins. in diam., brs. S. 43° E., 72 lks.
dist., mkd. $\frac{1}{4}$ S 7 BT.
- Continue over gently rolling land, thru. scattering
timber and undergrowth.
Descend 40 ft., over NE. slope, to
- 44.90 Wash, course NE. Leave gently rolling, and enter moun-
tainous land. Ascend 30 ft., over W. slope.
- 49.00 Spur, slopes N. Descend 10 ft. to
- 49.80 Gulch, course N. Ascend 20 ft., to
- 54.80 Spur, slopes NE. Descend 75 ft., over SE. slope.
- 61.70 Gulch, course NE. Ascend 23 ft., over W. slope.
- 65.70 Spur, slopes N. Descend 120 ft., over E. slope.
- 70.70 Wash, course SE. Ascend 30 ft., over S. slope, to
- 79.31 The cor. of secs. 5, 6, 7 and 8.
Land, rolling and mountainous.

Chains.

Soil,gravelly and rocky,3rd and 4th rate.
Timber, scattering cedar and pine.
Undergrowth, scattering scrub cedar,sagebrush and dogwood.
Poor grass.

40.00 N.0°17'E., on a random line, bet. secs.5 and 6.
 79.71 Set temp. 1/4 sec.cor.
 Fall 19 lks.E.of the cor.of secs.5,6,31 and 32, on N.bdy.
 of Tp., hereinbefore described.
 Thence,
 S.0°09'W., on a true line, bet.secs.5 and 6.
 Over roughly rolling land, thru. scattering timber and
 undergrowth.
 Descend 34 ft.,over S.slope.
 4.90 Draw, course E. Ascend 16 ft.
 8.40 Spur,slopes E. Descend 55 ft.,over S.slope.
 15.75 Draw, course E. Ascend 53 ft.,over N.slope.
 24.80 Spur,slopes NE. Descend 80 ft.,over SE.slope, to
 39.71 Set an iron post, 3 ft.long, 1 in. in diam.,in a mound of
 stone,for 1/4 sec.cor., marked on brass cap,



from which,
 A cedar, 16 ins. in diam.,brs.S.82 1/2°E.,92 lks.
 dist.,mkd. 1/4 S 5 BT.
 A pine, 23 ins. in diam.,brs.N.48 1/2°W.,137 lks.
 dist.,mkd. 1/4 S 6 BT.
 Thence over mountainous land, thru. scattering timber
 and undergrowth. Ascend 25 ft.,over NE.slope.
 47.70 Spur,slopes E. Descend 100 ft.,over SE.slope.
 51.10 Gulch, course NE. Ascend 100 ft.over N.slope.
 63.90 Spur,slopes SE. Descend 140 ft.,over SE.slope,to
 79.71 The cor.of secs.5,6,7 and 8.
 Land, rolling and mountainous.
 Soil,gravelly and rocky, 3rd and 4th rate.
 Timber, scattering cedar and pine.
 Undergrowth, scattering scrub cedar, sagebrush and dog-
 wood.
 Poor grass.

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

GENERAL DESCRIPTION.

The portion of this township surveyed as described in the foregoing field notes, lies entirely within the Hualpai Indian Reservation, on the plateau between Cataract Canyon on the East, and the Colorado River Canyon on the North and West.

The surface of the East half is gently rolling and nearly level. The West half has a rolling, broken and mountainous surface. The general course of the drainage is to the north, the National Canyon, bearing N. and S., thru. the township, draining the entire west half.

The soil of the East half is a sandy and gravelly loam, varying from 1st to 3rd rate.

The soil of the West half is gravelly and rocky, varying from 2nd to 4th rate, the 4th rate soil being mainly confined to the walls of National Canyon.

GENERAL DESCRIPTION (continued)

There are some portions of the East half devoid of timber, but nearly all of the sections contain a scattering growth of cedar and pine, and along the West boundary the timber is dense.

A scattering undergrowth of scrub cedar, sagebrush and dogweed is prevalent in all parts.

There is a good growth of grass in the E. half and the W. half with the exception of the canyon walls, has a fair growth of grass.

There is no permanent flowing water, and no indications of the existence of valuable minerals.

There are no settlers, improvements or roads.

CERTIFICATE OF UNITED STATES TRANSITMAN.

I, James C. O'Brien, U. S. Transitman, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 105, Arizona, bearing date of the 24th 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 Subdivision lines of Township 31 North, Range 6 West,

of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented in and by diagram on page 1 hereof the foregoing field notes, as having been executed by me, and under my direction; and that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General, for Group 105, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Place - Phoenix, Arizona, -

Date - May 8, 1922. - - - -

James C. O'Brien, (deceased)

U. S. Transitman

By

APPROVAL.

Asst. Supervisor of Surveys, District No. 5.

Office of the United States Surveyor General,

, 191

The foregoing field notes of the survey of

executed by

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

U. S. Surveyor General.

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

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

U. S. Surveyor General.

CERTIFICATE OF UNITED STATES SURVEYOR.

BOOK 5571

I, Dupree R. Averill, U. S. Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General for Group 105, Arizona, bearing date of the 24th 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 West and North boundaries, and Subdivision lines of

Township 31 North, Range 6 West,

of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented in and by diagram on page 1 hereof the foregoing field notes, as having been executed by me, and under my direction; and that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General, for Group 105, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Place - Phoenix Arizona

Date - July 15 1921

Dupree R. Averill, U. S. Surveyor.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix Arizona, May 13, 1922.

The foregoing field notes of the survey of the West boundary, part of the North boundary, and part of the Subdivision lines of

Township 31 North, Range 6 West,

of the Gila and Salt River Base and Meridian,

in the State of Arizona,

executed by Dupree R. Averill, U. S. Surveyor, and James C. O'Brien, U. S. Transitman under special instructions dated February 24, 1920 for Group 105, Ariz., having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank A. 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.