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Book "B"

BOOK 3480

FIELD NOTES

OF THE RETRACEMENT OF

part of the Arizona-New Mexico boundary,

AND OF THE SURVEY OF

part (completion) of the Subdivision lines of

Fractional Township 12 South, Range 32 East,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona,

EXECUTED BY

Guy R. Veal, and

Karl L. Siebecker,

U. S. Transitmen

with corrections by Sidney E. Blout, U. S. Cadastral Engineer

In the capacity of U. S. Surveyors, under instructions dated October 6, 1919,

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

Group No 102, Arizona, which were approved by the Commissioner of the General Land

Office, October 24, 1919 and Assignment Instructions dated Nov. 4 & 16, 1919.
and March 28, 1921.

Retracement and Survey commenced December 17, 1919

Retracement and Survey completed January 2, 1920

Corrections made April 2-4, 1921

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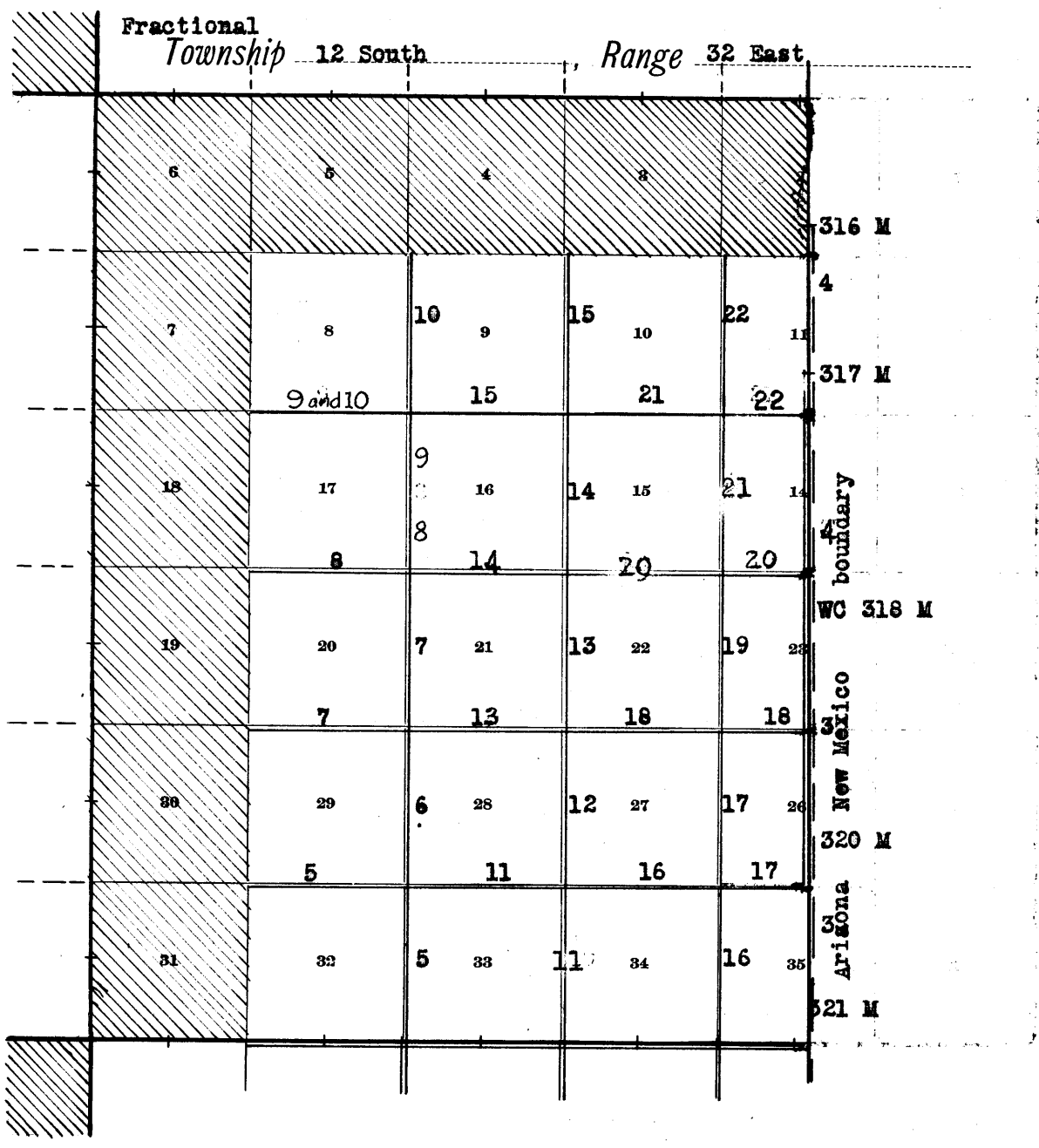
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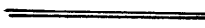
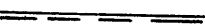

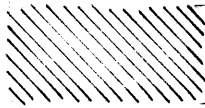
Book "B"

Group 102---Arizona.

BOOK 3430

INDEX DIAGRAM.



-  Lines surveyed under this Group.
 -  Lines retraced under this Group.
 -  Accepted surveys.
 -  Areas surveyed as per accepted plats on file.
- Corrections by Sidney E. Blout, U S Cadastral Engineer, pages 26 to 28.

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Book "B"

Date Diagram

Fractional Township 12 South, Range 32 East.

6	5	4	3	2	
7	8	12-29-19 9	1-2-20 10	1-2-20 11	316 12-26-19 317 Retraced M
18	12-29-19 17	12-27-19 16	12-31-19 15	1-2-20 14	12-26-19 boundary
19	12-24-19 20	12-24-19 21	12-30-19 22	12-31-19 23	12-26-19 318 M
30	12-23-19 29	12-22-19 28	12-20-19 27	12-29-19 26	12-23-19 12-24-19 320 New Mexico
31	12-17-19 32	12-18-19 33	12-18-19 34	12-20-19 35	12-23-19 321 Arizona See Book "A"

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

Brown lines on above diagram indicate accepted surveys.

Black lines on above diagram indicate surveys executed by Guy R. Veal, U. S. Transitman, on dates shown thereon.

Red lines on above diagram indicate surveys and retracements executed by Karl L. Siebecker, U. S. Transitman, on dates shown thereon.

Blue lines on above diagram indicate corrections executed by Sidney E. Blout, U. S. Cadastral Engineer April 2-4.1921.

Retracements and surveys hereinafter described executed by Guy R. Veal and Karl L. Siebecker, U. S. Transitmen, on dates shown on diagram on page 1 hereof, using respectively Buff solar transit No. 9939 and Young and Sons' light mountain transit No. 8522, described with certificate of approval by the Assistant Supervisor of Surveys, in Book "A".

We examine the adjustments of the transits and correct all errors; then, to test the solar apparatus, by comparing their indications, resulting from solar observations made during a.m. and p.m. hours, with a meridian determined from a series of three altitude observations of the sun for azimuth, we proceed as follows:

Dec. 21, 1919: At our camp in sec. 9, T. 13 S., R. 32 E. G. and S. R. B. and M., in lat. $32^{\circ}19'N.$, long. $109^{\circ}4\frac{1}{2}'W.$, using the meridian determined as described in Book "A", at 9 hrs. 0 m., a.m., l.m.t., we set off $32^{\circ}19'N.$ on the lat. arcs; $23^{\circ}24\frac{1}{2}'S.$ on the decl. arcs; and determine a meridian with each solar, which in each case agrees with the true meridian.

At apparent noon, with the lat. arcs unchanged, we observe the sun on the meridian; the resulting reading of the decl. arc of each instrument is $23^{\circ}25'S.$, which is the computed decl. of the sun.

At 3 hrs 0 m., p.m., l.m.t., with the lat. arcs unchanged, we set off $23^{\circ}24\frac{1}{2}'S.$ on the decl. arcs; and determine a meridian with each solar, which in each case agrees with the true meridian.

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

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

Retracement of part of the Arizona-New Mexico Bdy.--316 mile mon. to 321 mile mon.

Chains.

The Arizona-New Mexico Boundary was surveyed in 1875 by Chandler Robbins, U.S. Astronomer and Surveyor. No retracement or resurvey of the portion retraced as described below is of record in the office of the U.S. Surveyor General at Phoenix, Arizona.

From the 321 mile mon., on the Arizona-New Mexico line, described in Book "A,"

- North, on retracement of 321st mile.
 - Over rolling land, thru. scattering undergrowth.
 - 5.32 Wash, course SE. Road brs. E. to Silver City, New Mexico, and W. to San Simon, Arizona.
 - 35.30 Line of fence posts, extending N., brs. W. 60 lks. dist.
 - 45.30 Wash, course SE.
 - 58.30 Road, brs. SE. to Silver City, New Mexico, and NW. to San Simon, Arizona.
 - 80.32 Old road, brs. SE. and NW. Fall 4 lks. W. of the 320 mile mon., which is a granite stone, 10x12x6 ins., firmly set in a mound of stone, marked "320" on N. side, "32° WL" on S., "ARIZ." on W., and "NM" on E.
- The true course and distance of 321st mile are therefore N. 0° 2' E., 80.32 chs.
- Land, rolling.
Soil, sandy and rocky, 4th rate.
No timber.
Undergrowth, greasewood and cactus.
Fair grass.

From the notes of the original survey, it appears that the 319 mile point on the State Bdy. was never monumented; therefore, retrace as follows:

- From the 320 mile cor.,
 - North, on retracement of 320th and 319th miles.
 - Over rolling land, thru. scattering undergrowth.
 - 1.10 Intersect a stone, 8x4x10 ins. above ground, firmly set, marked "CC" on E. face, and witnessed by a mound of stone, E. of cor.
 - Continue line and measurement.
 - 35.00 Wash, course SW. Ascend 170 ft.
 - 47.20 Spur, slopes SW. Descend 35 ft.
 - 54.00 Draw, course SW. Leave rolling and enter mountainous land. Ascend 235 ft.
 - 63.35 At this point, impassable cliff prevents projection of line; therefore offset 2.50 chs. E.; thence North, 0.6 chs.; thence W. 250 chs. to a point on random line at
 - 70.00 Offset point 160 ft. above 63.35 ch. sta. Thence, North on random line, continuing measurement.
 - Descend 250 ft.
 - 90.00 Canyon, course SE. Ascend 510 ft.
 - 103.60 Spur, slopes NE. Descend 450 ft.
 - 123.16 Spur, slopes NW. Fall 4 lks. W. of the witness cor. to 318 mile point, which is a stone, 24x18x14 ins., firmly set in a mound of stone, marked "WC 318" on N. side, "32° WL" on S., "ARIZ." on W., and "NM" on E.
 - Continue line and measurement.
 - Over mountainous land, thru. scattering undergrowth.
 - Descend 195 ft., over N. slope, to
 - 136.40 Draw, course NW. Descend 310 ft., over NW. slope, to
 - 159.90 Fall 4 lks. W. of true point for 318 mile mon, which is witnessed at 36.74 chs. S.
- The true course and dist. of line thru. 320th and 319th miles are therefore N. 0° 1' E., 159.90 chs., which gives 79.95 chs. as the true length of each of the 320th and 319th miles.
- Land, rolling and mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, greasewood, cedar and cactus.

See Corrective Retracement notes on pages 26 and 27 of this book.

Retracement of part of the
1. Arizona-New Mexico Bdy. -- 316 mile mon. to 321 mile mon.

Chains.

From true point for 318 mile mon.,
North, on retracement of 318th mile.
Over mountainous land, thru. scattering undergrowth.
Descend 50 ft., over NW. slope.
2.92 Wash, course W. Ascend 10 ft.
3.02 Descend 115 ft.
16.31 Wash, course NE. Leave mountainous and enter gently rolling land.
34.71 Wash, course E.
73.11 Wash, course E.
78.46 Fall .25 lks. W. of the 317 mile mon., which is a limestone 14x16x10 ins. above ground, firmly set in a mound of stone, marked "317" on N. side, "32° WL" on S., "ARIZ." on W., and "NM" on E.
The true course and distance of 318th mile are therefore N. 0° 11' E., 78.46 chs.
Land, rolling and mountainous.
Soil, rocky, 4th. rate.
No timber.
Undergrowth, greasewood, cactus and catclaw.

From the 317 mile mon.,
North, on retracement of 317th mile.
Over rolling land, thru. scattering undergrowth.
14.65 Wash, course NE.
37.05 Road, brs. NW. and SE.
46.85 Wash, course E.; ascend.
61.65 Rock ledge, 6 ft. high, brs. E. and W.
72.00 Intersect the original closing cor. of secs. 2 and 11, frac. T. 12 S., R. 32 E., which is an iron post, 2 ins. in diam., projecting 12 ins. above ground, firmly set, properly marked on brass cap, and witnessed by a mound of stone, W. of cor. No bearing trees.
80.07 Intersect the 316 mile mon., which is a stone, 9x14x12 ins. above ground, firmly set, marked "316" on N. side, "32° WL" on S., "ARIZ." on W., and "NM" on E.
The true course and dist. of 317th mile are therefore North, 80.07 chs.

See corrective retracement notes
on page 26 of this book.

Survey of Completion of Subdivision of frac. T. 12 S. R. 32 E 5

Chains

The north tier, and the west range of secs. in this township were surveyed in 1914, by William B. Kimmel, U. S. Surveyor. No retracement or resurvey of such subdivision lines is of record. The following notes describe the survey of the remainder of the subdivision lines of this township.

From the cor. of secs. 4, 5, 32 and 33, on the S. bdy. of the Tp., described in Book "A" N. 0° 01' E., bet. secs. 32 and 33.

Over mountainous land, thru. scattering undergrowth. Ascend 195 ft.

- 7.50 Spur, slopes SW. Descend.
- 14.00 Head of gulch, 10 lks. wide, course SW. Ascend 660 ft. over a series of small cliffs.
- 32.00 Ridge, brs. NE. and SW. Descend. 165 ft.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, for 1/4 sec. cor., marked on brass cap,

S 32 1/4 S 33
1919

from which,

- A cedar, 9 ins. in diam., brs. N. 63° E., 125 lks. dist., marked "S 33 BT."
- A cedar, 11 ins. in diam., brs. N. 42° W., 12 lks. dist., mark "S 32 BT."

Ascend 35 ft.

- 44.00 Spur, slopes SW. Descend 125 ft.
- 60.00 Ascend.
- 63.80 Spur, slopes W. Descend.
- 65.60 Head of gulch, course W. Ascend 40 ft. over SW. slope.
- 71.00 Spur, slopes W. Descend N. slope, 185 ft.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 15 ins. in the ground, in a mound of stone, for cor. of secs. 28, 29, 32 and 33, marked on brass cap,

T 12 S R 32 E
S 29 S 28
S 32 S 33
1919

from which,

- A cedar, 16 ins. in diam., brs. N. 16° E., 45 lks. dist., mark "T 12 S R 32 E S 28 B T."
- A cedar, 12 ins. in diam., brs. S. 9 1/2° E., 113 lks. dist., mark "T 12 S R 32 E S 33 B T."
- A cedar, 18 ins. in diam., brs. S. 35° W., 43 lks. dist. mark "T 12 S R 32 E S 32 B T."
- A cedar, 11 ins. in diam., brs. N. 59° W., 82 lks. dist., mark "T 12 S R 32 E S 29 B T."

Land, mountainous.

Soil, rocky, 4th rate.

No timber.

Undergrowth, cedar, catclaw, cactus and Spanish dagger.

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

- 40.00 Set temp. 1/4 sec. cor.
- 80.31 Intersect N. and S. line, 2 lks. N. of the original cor. of secs. 29, 30, 31 and 32, which is an iron post, 2 ins. in diam., projecting 24 ins. above ground, firmly set in a mound of stone, properly marked on brass cap and witnessed by a md. of stone W. of cor., and one properly marked bearing tree, a cedar, 10 ins. in diam., S. 72 1/2° E., 137 lks. dist.,

6 Completion of Subdivision lines of fracl. T. 12 S., R. 32 E.

Chains Thence,

- N. 89° 59' E., on a true line, bet. secs. 29 and 32.
Over mountainous land, thru. scattering undergrowth.
Descend 40 ft.
- 1.90 Wash, 20 lks. wide, course NW. Ascend 415 ft.
- 24.55 Spur, slopes SW. Continue ascent.
- 40.15 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

S 29
 $\frac{1}{4}$ S 32
 1919

from which,

- A cedar, 8 ins. in diam., brs. N. 52 $\frac{1}{2}$ ° E., 163 lks. dist., mark " $\frac{1}{4}$ S. 29 B T."
- Continue ascent 335 ft.
- 58.11 Gulch, course SW. Continue ascent.
- 62.70 Spur, slopes SW. Continue ascent.
- 73.55 Spur, slopes NW. Descend 40 ft.
- 80.31 The cor. of secs. 28, 29, 32 and 33.

Land, mountainous.

Soil, rocky, 4th rate.

No timber.

Undergrowth; cedar, catclaw and Spanish dagger.

N. 0° 01' E., bet. secs. 28 and 29.
Over mountainous land, thru scattering undergrowth.
Descend 355 ft.

- 22.25 Wash, 30 lks. wide, course W. Ascend 310 ft.
- 33.80 Spur, slopes W. Descend.
- 38:98 Head of gulch, course NW. Ascend 35 ft.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 15 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

S 29 | S 28
 1919

From which

- A cedar, 16 ins. in diam., brs. S. 2 $\frac{1}{2}$ ° E., 329 lks. dist., mark " $\frac{1}{4}$ S 28 B T."
- A cedar limb, 6 ins. in diam., brs. S. 69 $\frac{1}{2}$ ° W., 188 lks. dist., mark " $\frac{1}{4}$ S 29 B T."
- Ascend 190 ft.

- 48.01 Spur, slopes W. Descend 280 ft.
- 78.40 Wash, 30 lks. wide, course W. Ascend 30 ft.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 20, 21, 28 and 29, marked on brass cap,

T 12 S | R 32 E
 S 20 | S 21
 S 29 | S 28
 1919

from which

- A cedar, 14 ins. in diam., brs. S. 30 $\frac{3}{4}$ ° E., 256 lks. dist., mark "T 12 S R 32 E S 28 BT."
- A cedar, 18 ins. in diam., brs. S. 6 $\frac{1}{2}$ ° W., 422 lks. dist., mark "T 12 S R 32 E S 29 BT."
- No other trees within limits. Raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Chains Land, mountainous.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, greasewood, cedar, catclaw and scrub oak.

- S. 89° 59' W., on a random line, bet. secs. 20 and 29.
- 40.00 Set temp. 1/4 sec. cor.
 - 80.02 Intersect N. and S. line, 16 lks. S. of the original cor. of secs. 19, 20, 29 and 30, which is an iron post, 2 ins. in diam., projecting 12 ins. above ground, firmly set, properly marked on brass cap, witnessed by a mound of stone, W. of cor., and one properly marked bearing tree, a cedar, 8 ins. in diam., S. 37° W., 61 lks. dist.
- Thence,
 S. 89° 54' E., on a true line, bet. secs. 20 and 29.
 Over rolling and mountainous land, thru scattering undergrowth. Ascend 280 ft.
- 22.40 Ridge; brs. NE. and SW. Descend 180 ft.
 - 32.75 Wash, 5 lks. wide, course S. Ascend 35 ft.
 - 40.01 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground, deposit marked (X) stone, and raise a mound of stone around post, for 1/4 sec. cor., marked on brass cap,

S 20
 1/4 S 29
 1919

- Ascend.
- 42.20 Spur, slopes E. Descend 30 ft.
 - 47.60 Draw, 10 lks. wide, course S. Ascend 40 ft.
 - 53.10 Spur, slopes S. Descend 30 ft.
 - 58.50 Draw, 5 lks. wide, course S. Ascend 15 ft.
 - 60.70 Spur, slopes S. Descend 30 ft.
 - 64.50 Wash, 5 lks. wide, course S. Ascend 40 ft.
 - 80.02 The cor. of secs. 20, 21, 28 and 29.
 Land, rolling and mountainous.
 Soil, rocky, 4th rate.
 Timber, none.
 Undergrowth, scrub oak and cedar.

- N. 0° 01' E., bet. secs. 20 and 21.
 Over mountainous land, thru scattering undergrowth.
 Ascend 775. ft.
- 27.00 Saddle in ridge; brs. E. and W. Descend 535 ft.
 - 40.00 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,

S 20 | S 21
 1919

from which
 A cedar, 12 ins. in diam.; brs. S. 50° E., 34 lks. dist., mark "1/4 S 21 BT."
 A cedar limb, 10 ins. in diam., brs. S. 10° W., 47 lks. dist., mark "1/4 S 20 BT."

- Continue descent.
- 42.20 Head of rocky gulch, course NW. Ascend.
 - 45.00 Spur, slopes NW. Descend.
 - 55.40 Wash, 30 lks. wide, course W. Ascend 795 ft. in gulch, from N., course SW.
 - 78.00 Leave gulch, course S., from NE.

Chains
80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 16, 17, 20 and 21, marked on brass cap,

T 12 S R 32 E
S 17 S 16
S 20 S 21
1919

from which,

A cedar limb, 5 ins. in diam., brs. N. 84° E., 312 lks. dist., mark "T 12 S R 32 E S 16 BT."

A cedar, 8 ins. diam., brs. S. 71½° E., 315 lks. dist., mark "T 12 S R 32 E S 21 BT."

A cedar, 7 ins. in diam., brs. S. 5° W., 161 lks. dist., mark "T 12 S R 32 E S 20 BT."

A cedar, 10 ins. in diam., brs. N. 19½° W., 210 lks. dist., mark "T 12 S R 32 E S 17 BT."

Land, mountainous.

Soil, rocky, 4th rate.

No timber.

Undergrowth, scattering cedar and scrub oak.

40.00 N. 89° 54' W., on a random line, bet. secs. 17 and 20. Set temp. ¼ sec. cor.

79.98 Intersect N. and S. line, 19 lks. N. of the original cor. of secs. 17, 18, 19 and 20, which is an iron post, 2 ins. in diam., projecting 18 ins. above ground, firmly set in a mound of stone, properly marked on brass cap and witnessed by a mound of stone W. of cor. No bearing trees.

Thence,

N. 89° 58' E., on a true line, bet. secs. 17 and 20. Over mountainous land, thru scattering undergrowth.

Ascend 265 ft.

11.95 Spur, slopes S. Descend 590 ft.

26.75 Wash, 20 lks. wide, course SW. Ascend 470 ft.

39.74 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground, in a mound of stone, for witness cor. to ¼ sec. cor., marked on brass cap,

WC ¼ S 17
 S 20
 1919

from which,

A cedar, 24 ins. in diam., brs. N. 19° E., 47 lks. dist., mark "WC ¼ S 17 BT."

A cedar, 18 ins. in diam., brs. S. 73½° E., 210 lks. dist., mark "WC ¼ S 20 BT."

39.99 The true point for ¼ sec. cor. falls on rocky ledge, where it cannot be monumented.

Continue ascent, 65 ft.

46.87 Ridge, brs. N. and SW. Descend 325 ft.

58.67 Wash, 20 lks. wide, course S. Ascend 385 ft.

73.57 Spur, slopes SW. Descend 45 ft.

79.98 The cor. of secs. 16, 17, 20 and 21.

Land, mountainous.

Soil, rocky, 4th rate.

No timber.

Undergrowth, catclaw, scrub oak and cedar.

N. 0° 01' E., bet. secs. 16 and 17.

Completion of Subdivision lines of fracl. Township 12 S. R. 32 E. 9

Chains.
 12.40
 23.00
 40.00
 42.00
 43.90
 47.80
 53.80
 58.50
 72.00
 80.00

Over mountainous land, thru. scattering undergrowth.
 Ascend 350 ft.
 Ridge, brs. E. and W. Descend 710 ft.
 Head of gulch, course NE. Continue descent.
 Set an iron post, 3 ft. long, 1 in. in diam., 14 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$$\begin{array}{c} \frac{1}{4} \\ S17 | S16 \\ \hline .1919 \end{array}$$

from which,
 A cedar, 16 ins. in diam., brs. east 88 lks. dist., mark " $\frac{1}{4}$ S16 BT."
 A cedar, 6 ins. in diam., brs. S. 65° W., 36 lks. dist., mark " $\frac{1}{4}$ S17 BT."

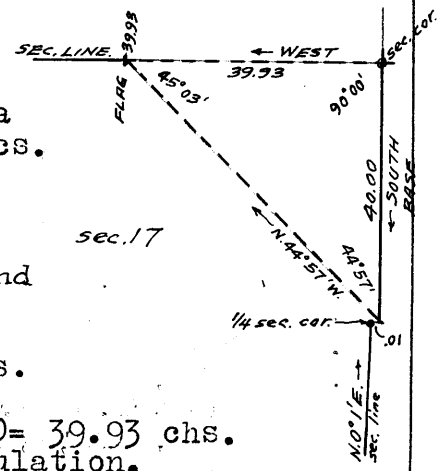
At this cor., set flag for triangulation.
 Continue descent.
 Same gulch, course NW. Ascend.
 Point of rock, slopes W. Descend 140 ft.
 Wash, 20 lks. wide, course W. Ascend 185 ft.
 Spur, slopes SW., Descend 105 ft., over broken cliffs.
 Head of gulch, 10 lks. wide, course SW. Ascend 350 ft.
 Rocky gulch, course SW. Continue ascent.
 Set an iron post, 3 ft. long, 2 ins. in diam., 6 ins. in the ground, in a mound of stone, for cor. of secs. 8, 9, 16 and 17, marked on brass cap,

$$\begin{array}{c} T12S | R32E \\ \hline S 8 | S 9 \\ \hline S17 | S16 \\ \hline .1919 \end{array}$$

from which,
 A cedar, 14 ins. in diam., brs. N. 61 $\frac{1}{2}$ ° E., 165 lks. dist., mark "T12S R32E S9 BT."
 A cedar, 6 ins. in diam., brs. S. 11 $\frac{1}{2}$ ° E., 160 lks. dist., mark "T12S R32E S16 BT."
 A cedar, 8 ins. in diam., brs. S. 85 $\frac{1}{2}$ ° W., 152 lks. dist., mark "T12S R32E S17 BT."

No other trees within limits.
 Land, mountainous.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, cedar and scrub oak.

West, on a random line, bet. secs. 8 and 17, for distance only as a flag on original cor. of secs. 7, 8, 17 and 18, is visible from the cor. of secs. 8, 9, 16 and 17, and brs. W. therefrom. The east half of this line crosses broken cliffs facing W., over which chaining is impracticable; therefore, triangulate as follows:
 Set flag at point on line beyond the cliffs.



A point 1 lk. E. of $\frac{1}{4}$ sec. cor. of secs. 16 and 17 is the S. end of a base S. 40.00 chs. from cor. of secs. 8, 9, 16 and 17.

From S. end of base, flag brs. N. 44° 57' W.

Included angles are 44° 57', 45° 03' and 90° 00', the sum of which is 180° 00'.

Triangulated dist. on line bet. secs. 8 and 17 is obtained by $\text{tang. } 44^{\circ} 57' \times \text{base or } .99826 \times 40.00 = 39.93 \text{ chs.}$

39.93
 79.94

Flag point of above described triangulation.
 Continue line and measurement by chaining.
 Intersect the original cor. of secs. 7, 8, 17 and 18, which

10 Completion of Subdivision lines of frac. T. 12 S. R. 32 E.

Chains.

is an iron post, 2 ins. in diam., projecting 30 ins. above ground, firmly set in a mound of stone properly marked on brass cap, and witnessed by a mound of stone, W. of cor. No bearing trees.

Thence,

East, on a true line, bet. secs. 8 and 17.

Over mountainous land, thru. scattering undergrowth.

Descend 50 ft.

4.90

Wash, 5 lks. wide, course S. Thence along S. slope.

19.90

Ascend 220 ft., over SW. slope, to

39.97

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

1/4 S 8

S 17

1919

from which,

A cedar, 5 ins. in diam., brs. N. 84° E., 188 lks. dist., mark "S 8 BT."

A cedar limb, 5 ins. in diam., brs. S. 51° E., 103 lks. dist., mark "S 17 BT."

Thence over broken cliffs, facing W., measurement by triangulation. Ascend 980 ft., to

79.94

The cor. of secs. 8, 9, 16 and 17.

Land, mountainous.

Soil, rocky, 4th rate.

No timber.

Undergrowth, scedar and scrub oak.

N. 0° 1' E., on a random line, bet. secs. 8 and 9.

40.00

Set temp. 1/4 sec. cor.

80.37

Intersect E. and W. line, 7 lks. E. of the original cor. of secs. 4, 5, 8 & 9, which is an iron post, 2 ins. in diam., projecting 22 ins. above ground, firmly set in a mound of stone and witnessed by a mound of stone W. of cor., and one properly marked bearing tree, a cedar, 5 ins. in diam., N. 53 1/2° W., 132 lks. dist.

Thence,

S. 0° 2' E., on a true line, bet. secs. 8 and 9.

Over mountainous land, thru. scattering undergrowth.

descend 75 ft.

7.37

Draw, course E. Ascend 275 ft.

16.35

End of spur, slopes NE. Descend.

21.25

Canyon, course NE. Ascend 35 ft.

29.85

Point of spur, slopes NE. Descend.

31.54

Gulch, 10 lks. wide, course NE. Ascend 225 ft.

39.95

Spur, slopes SW. Descend.

40.18 1/2

Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground, in a mound of stone, for 1/4 sec. cor., marked on brass cap,

S 8 S 9

1919

from which,

A cedar limb, 12 ins. in diam., brs. N. 73° E., 156 lks. dist., mark "S 9 BT."

A cedar, 7 ins. in diam., brs. S. 57° W., 136 lks. dist., mark "S 8 BT."

Descend.

42.85

Gulch, 10 lks. wide, course W. Ascend 405 ft.

60.90

Saddle in ridge, brs. E. and W. Continue ascent.

76.80

Spur, slopes W. Descend 95 ft.

80.37

The cor. of secs. 8, 9, 16 and 17. ... of the original cor. of

Land, mountainous. ... which is an iron post, 2

Soil, rocky, 4th rate.

No timber.

Undergrowth, cedar, cactus and Spanish dagger.

Completion of fracl. Subdivision lines of fracl. T.12 S. R.32 E.

Chains.

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

N.0° 2'E., bet. secs. 33 and 34.

Over rolling land, thru. scattering undergrowth. Descend.

1.20 Draw, 3 lks. wide, course SE. Ascend 60 ft.

7.50 Spur, slopes SE. Descend.

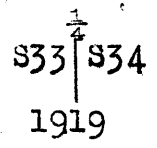
18.50 Draw, 10 lks. wide, course SE. Ascend 70 ft.

27.90 Spur, slopes NW. Descend 55 ft.

37.70 Wash, 15 lks. wide, course SE. Ascend.

39.10 Spur, slopes SE. Descend.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 16 ins. in the ground, deposit marked (x) stone; and raise a mound of stone around post, for 1/4 sec. cor., with brass cap, marked



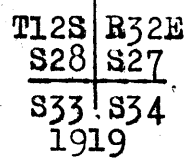
40.09 Wash, 5 lks. wide, course SE. Ascend 590 ft., over cliffs on spur, sloping S.

64.90 Top of spur, slopes S. Descend 65 ft.

67.75 Head of gulch, course E. Ascend 180 ft.

77.70 Spur, slopes NE. Descend 50 ft.

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 6 ins. in the ground, in a mound of stone, for cor. of secs. 27, 28, 33 and 34, marked on brass cap,



from which,

A cedar, 9 ins. in diam., brs. N. 31 1/2° E., 69 lks. dist., mark "T12S R32E S27 BT."

A cedar, 12 ins. in diam., brs. S. 8 1/2° E., 77 lks. dist., mark "T12S R32E S34 BT."

A cedar, 10 ins. in diam., brs. S. 40° W., 152 lks. dist., mark "T12S R32E S33 BT."

A cedar, limb, 12 ins. in diam., brs. N. 41 1/2° W., 98 lks. dist., mark "T12S R32E S28 BT."

Land, rolling and mountainous.

Soil, rocky, 4th rate.

No timber.

Undergrowth, ocotilla, catclaw and Spanish dagger.

West, on a random line, bet. secs. 28 and 33.

40.00 Set temp. 1/4 sec. cor.

80.02 Intersect N. and S. line, 14 lks. N. of the cor. of secs. 28, 29, 32 and 33, hereinbefore described.

Thence,

N. 89° 54' E., on a true line, bet. secs. 28 and 33.

Over mountainous land, thru. scattering undergrowth. Ascend 430 ft.

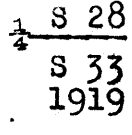
15.50 Ridge, brs. NE. and SW. Descend.

20.00 Ascend.

23.50 Spur, slopes S. Descend 45 ft.

31.00 Gulch, 30 lks. wide, course SW. Ascend 180 ft.

40.01 Set an iron post, 3 ft. long, 1 in. in diam., 14 ins. in the ground, in a mound of stone, for 1/4 sec. cor., marked on brass cap,



from which,

A cedar, 7 ins. in diam., brs. N. 57° E., 60 lks. dist., mark "1/4 S28 BT."

12 Completion of Subdivision lines of fract. T. 12 S. R. 32 E.

Chains.

A cedar, 10 ins. in diam., brs. S. 44° W., 206 lks. dist., mark "1/4 S33 BT."
 Cor. falls on spur, slopes SW. Descend 135 ft.
 Ascend 40 ft.
 Descend 370 ft., over NE. slope.
 The cor. of secs. 27, 28, 33 and 34.
 Land, mountainous.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, catclaw, cedar and Spanish dagger.

N. 0° 2' E., bet. secs. 27 and 28.
 Over mountainous land, thru. scattering undergrowth.
 Descend 90 ft.
 Wash, course NE. Continue descent, 310 ft.
 Canyon, course E. Ascend 125 ft.
 The true point for 1/4 sec. cor. falls on steep bare rock, slope, where it cannot be monumented.
 Set an iron post 3 ft. long, 1 in. in diam., 10 ins. in the ground, in a mound of stone, for witness cor. to 1/4 sec. cor., marked on brass cap,

W C
 1/4
 S 28 | S 27
 1919

from which,
 A cedar, 14 ins. in diam., brs. N. 41° E., 176 lks. dist., mark "1/4 S27 BT."
 A cedar, 12 ins. in diam., brs. S. 71 1/2° W., 199 lks. dist., mark "1/4 S28 BT."
 Ascend 35 ft..
 43.50 Spur, slopes NE. Descend 190 ft..
 59.30 Wash, 20 lks. wide, course NE. Ascend 75 ft..
 68.90 Spur, slopes E. Descend 25 ft..
 73.05 Wash, 10 lks. wide, course SE. Ascend 85 ft..
 79.85 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for witness cor. to cor. of secs. 21, 22, 27 and 28, marked on brass cap.

W C
 T12S R32E
 S21 S22
 S28 S27
 1919

from which,
 A cedar limb, 8 ins. in diam., brs. NE., 258 lks. dist., mark "WC T12S R32E S22 BT."
 A cedar, 7 ins. in diam., brs. SE., 441 lks. dist., mark "WC T12S R32E S27 BT."
 A cedar, 8 ins. in diam., brs. SW., 327 lks. dist., mark "WC T12S R32E S28 BT."
 A cedar, 24 ins. in diam., brs. NW., 258 lks. dist., mark "WC T12S R32E S21 BT."
 80.00 The true point for cor. of secs. 21, 22, 27 and 28 falls on ledge, where it cannot be monumented.
 No timber.
 Land, mountainous.
 Soil, rocky, 4th rate.
 Undergrowth, scattering catclaw and cedar.

From the true point for cor. of secs. 21, 22, 27 and 28, S. 89° 54' W., on a random line, bet. secs. 21 and 28.
 40.00 Set temp. 1/4 sec. cor.
 79.98 Intersect the cor. of secs. 20, 21, 28 and 29, hereinbefore described.

Completion of Subdivision lines of fracl. T.12 S.R.32 E.

Chains.

Thence,
 N.89°54'E., on a true line, bet. secs. 21 and 28.
 Over mountainous land, thru. scattering undergrowth.
 1.90 Wash, 20 lks. wide, course SW. Ascend 125 ft.
 24.30 Spur, slopes NW. Descend.
 31.00 Wash, 20 lks. wide, course NW. Ascend 150 ft.
 39.02 Spur, slopes SE. Set an iron post, 3 ft. long, 1 in. in diam., 14 ins. in the ground, in a mound of stone, for witness cor. to $\frac{1}{4}$ sec. cor., marked

WC $\frac{1}{4}$ S 21
 S 28
 1919

from which,
 A cedar, 7 ins. in diam., brs. N.18 $\frac{1}{2}$ °E., 90 lks.
 dist., mark "WC $\frac{1}{4}$ S 21 BT."
 A cedar, 14 ins. in diam., brs. S.20 $\frac{3}{4}$ °E., 148 lks.
 dist., mark "WC $\frac{1}{4}$ S 28 BT."

Descend.
 39.99 The true point for $\frac{1}{4}$ sec. cor. falls on rocky ledge, where it cannot be monumented.
 40.73 Gulch, 10 lks. wide, course SW. Ascend 500 ft.
 53.40 Ridge, brs. N. and S. Descend 605 ft.
 75.30 Wash, 20 lks. wide, course SE. Ascend.
 79.98 The true point for cor. of secs. 21, 22, 27 and 28. Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, cedar, catclaw and Spanish dagger.

From the true point for cor. of secs. 21, 22, 27 and 28, N.0°2'E., bet. secs. 21 and 22. Over mountainous land, thru. scattering undergrowth. Ascend 300 ft.

13.13 Descend NE. slope, 125 ft.
 23.00 Gulch, 10 lks. wide, course E. Ascend 95 ft.
 28.75 Spur, slopes NE. Descend 145 ft.
 35.60 Gulch, 10 lks. wide, course SE. Ascend.
 40.00 Spur, slopes SE.
 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,

$\frac{1}{4}$
 S21 | S22
 1919

from which,
 A cedar, 8 ins. in diam., brs. N.42°E., 189 lks.
 dist., mark " $\frac{1}{4}$ S 22 BT."
 A cedar, 7 ins. in diam., brs. S.38°W., 43 lks.
 dist., mark " $\frac{1}{4}$ S 21 BT."

Descend.
 44.30 Draw, course E. Thence along E. slope.
 49.00 Wash, 20 lks. wide, course SE. Ascend 730 ft.
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 4 ins. in the ground, in a mound of stone, for cor. of secs. 15, 16, 21 and 22, marked on brass cap,

T12S | R32E
 S16 | S15
 S21 | S22
 1919

from which,

14 Completion of Subdivision lines of fracl. T. 12 S., R. 32 E.

Chains.

- A cedar, 6 ins. in diam., brs. N. 63 1/2° E., 166 lks. dist., mark "T12S R32E S15 BT."
- A cedar, 16 ins. in diam., brs. S. 85° E., 133 lks. dist., mark "T12S R32E S22 BT."
- A cedar, 8 ins. in diam., brs. S. 70° W., 70 lks. dist., mark "T12S R32E S21 BT."
- A cedar, 14 ins. in diam., brs. N. 50° W., 80 lks. dist., mark "T12S R32E S16 BT."

Land, mountainous.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, cedar, yucca, mescal and Spanish dagger.

40.00
79.94

S. 89° 54' W., on a random line, bet. secs. 16 and 21.
 Set temp. 1/4 sec. cor.
 Intersect. N. and S. line, 37 lks. S. of the cor. of secs. 16, 17, 20 and 21, hereinbefore described.

Thence,
 S. 89° 50' E., on a true line, bet. secs. 16 and 21.
 Over mountainous land, thru. scattering undergrowth.
 Descend.

1.25
8.85
16.95
22.95
26.45
37.55
39.97

Head of small gulch, course S. Ascend 115 ft.
 Spur, slopes S. Descend 160 ft.
 Gulch, 10 lks. wide, course SE. Ascend 35 ft.
 Spur, slopes S. Descend 45 ft.
 Wash, 20 lks. wide, course S. Ascend 165 ft.
 Spur, slopes NW. Descend.
 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground, in a mound of stone, for 1/4 sec. cor., marked on brass cap,

1/4 S 16
 S 21
 1919

from which,
 A cedar, 12 ins. in diam., brs. N. 68 1/2° E., 212 lks. dist.; mark "1/4 S 16 BT."
 A cedar, 20 ins. in diam., brs. S. 77 1/4° E., 195 lks. dist., mark "1/4 S 21 BT."

55.55
75.95
79.94

Descend 65 ft.
 Head of draw, course NW. Ascend 290 ft.
 Spur, slopes S. Descend 35 ft.
 The cor. of secs. 15, 16, 21 and 22.
 Land, mountainous.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, greasewood, cactus, mescal and Spanish dagger.

15.60
40.00

N. 0° 2' E., bet. secs. 15 and 16.
 Over mountainous land, thru. scattering undergrowth.
 Ascend 430 ft.
 Ridge, brs. NE. and SW. Descend 560 ft.
 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground, deposit marked stone, and raise a mound of stone around post, for 1/4 sec. cor., marked on brass cap,

1/4 S16 | S15
 1919

59.10
60.75

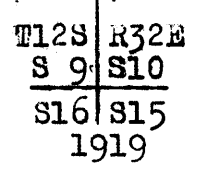
Continue descent, 305 ft.
 Wash, 15 lks. wide, course E. Ascend 170 ft.
 Saddle in ridge, brs. E. and W. Descend 430 ft.

Completion of subdivision lines of fracl. T.12 S., R.32 E. 15

Chains.

67.50
80.00

Gulch, course NW. Continue descent,
Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in
the ground, for cor. of secs. 9, 10, 15 and 16, marked on
brass cap,



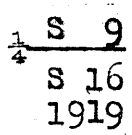
from which,
An oak, 9 ins. in diam., brs. N. 71 1/4° E., 33 lks. dist.,
mark "T12S R32E S10 BT."
A white oak, 10 ins. in diam., brs. S. 87° E., 23 lks.
dist., mark "T12S R32E S15 BT."
An oak, 10 ins. in diam., brs. S. 19° W., 126 lks.
dist., mark "T12S R32E S16 BT."
No other trees within limits. Raise a mound of stone, 2 ft.
base, 1 1/2 ft. high, W. of cor.
Land, mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, cedar, mescal, cactus and ocotilla.

40.00
80.02

N. 89° 50' W., on a random line, bet. secs. 9 and 16.
Set temp. 1/4 sec. cor.
Intersect N. and S. line, 9 lks. S. of the cor. of secs.
8, 9, 16 and 17, hereinbefore described.

3.30
6.40
14.40
30.90
40.01

Thence,
S. 89° 46' E., on a true line, bet. secs. 9 and 16.
Over mountainous land, thru. scattering undergrowth.
Ascend 115 ft.
Descend 40 ft.
Ascend 40 ft.
Spur, slopes N. Descend 360 ft.
Head of gulch, course SE. Continue descent, 110 ft.
Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in
the ground, in a mound of stone, for 1/4 sec. cor., marked
on brass cap,



from which,
An oak, 9 ins. in diam., brs. S. 69° E., 86 lks.
dist., mark "1/4 S 16 BT."

46.05
65.00

No other trees within limits.
Continue descent, 310 ft.
Descend over top of cliffs, facing east.
Wash, 20 lks. wide, course NE. Ascend 265 ft., over NW.
slope.

80.02

The cor. of secs. 9, 10, 15 and 16.
Land, mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, cedar, mescal, cactus and ocotilla.

40.00
80.40

N. 0° 2' E., on a random line, bet. secs. 9 and 10.
Set temp. 1/4 sec. cor.
Intersect E. and W. line, 13 lks. W. of the original cor.
of secs. 3, 4, 9 and 10, which is an iron post, 2 ins.
in diam., projecting 12 ins. above ground, firmly set,
properly marked on brass cap, and witnessed by a mound
of stone, W. of cor. No bearing trees.
Thence,
S. 0° 8' W., on a true line, bet. secs. 9 and 10.

16 Completion of Subdivision lines of frac1.T.12 S.,R.32 E.

Chains.

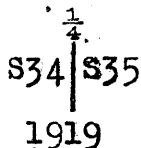
Over rolling land, thru. scattering undergrowth.
 15.40 Ascend 100 ft.,
 27.10 Spur, slopes E. Descend 100 ft.
 35.40 Foot of descent; thence over rolling land.
 40.20 Set an iron post, 3 ft. long, 1 in. in diam., 5 ins. in the
 the ground, deposit marked (X) stone, and raise a mound
 of stone around post, for $\frac{1}{4}$ sec. cor., with brass cap,
 marked



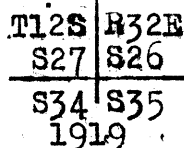
43.80 Wash, 10 lks. wide, course NE.
 47.10 Wash, course NE.
 49.45 Wash, course NE.
 60.65 Wash, 20 lks. wide, course NE. Leave rolling, and enter
 mountainous land. Ascend 255 ft.
 80.40 The cor. of secs. 9, 10, 15 and 16.
 Land, rolling and mountainous.
 Soil, sandy loam, 3rd rate; and rocky, 4th rate.
 No timber.
 Undergrowth, mescal, cedar, cactus and ocotilla.

From the cor. of secs. 2, 3, 34 and 35, on the S. bdy. of Tp.
 described in Book "A,"

N. 0° 2' E., bet. secs. 34 and 35:
 Over rolling land, thru. scattering undergrowth.
 6.00 Road brs. NE. to Lyall's house, and SW. to San Simon.
 18.00 Wash, course SW. Ascend 120 ft.
 29.50 Spur, slopes S. Descend 75 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in
 the ground, deposit marked (x) stone, and raise a
 mound of stone around post, for $\frac{1}{4}$ sec. cor., with brass
 cap marked



Continue gradual descent, 30 ft.
 55.00 Wash, course SW. Ascend 65 ft.
 74.00 Draw, course SW. Continue ascent, 95 ft.
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 10 ins. in
 the ground, deposit marked (x) stone, and raise a
 mound of stone around post for cor. of secs. 26, 27, 34
 and 35, with brass cap, marked



Land, rolling. Soil, sandy and rocky, 4th rate.
 55.00 No timber.
 74.00 Undergrowth, mesquite, sage brush and cedar. 10 ins. in
 Fair grass, deposit marked (x) stone, and raise a mound
 of stone around post for cor. of secs. 26, 27, 34 and 35,
 with brass cap, marked

West, on a random line, bet. secs. 27 and 34.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.30 Intersect N. and S. line, 10 lks. S. of the cor. of secs. 27,
 28, 33 and 34, hereinbefore described.
 Thence,
 S. 89° 56' E., on a true line, bet. secs. 27 and 34.
 Over rolling and mountainous land, thru. scattering under-
 growth.

Completion of Subdivision lines of fracl. T.12 S., R. 32 E.

Chains.

Ascend.
 1.30 Spur, slopes N. Descend 125 ft.
 15.30 Ascend.
 20.95 Spur, slopes S. Descend 230 ft.
 31.30 Draw, course SE. Ascend 45 ft.
 40.15 Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground, deposit marked (x) stone; and raise a mound of stone around post, for $\frac{1}{4}$ sec. cor., with brass cap, marked

$\frac{1}{4}$ S 27
 S 34
 1919

Descend 160 ft.
 53.20 Draw, course S. Ascend 155 ft.
 63.30 Spur, slopes SW. Descend gradually 120 ft.
 80.30 The cor. of secs. 26, 27, 34 and 35.
 Land, rolling and mountainous.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, cedar, cactus and greasewood.

 East, on a true line, bet. secs. 26 and 35.
 Over rolling and mountainous land, thru. scattering undergrowth.

Descend 160 ft.
 29.00 Road, brs. N. to Lyall's house, and S. to San Simon.
 32.00 Wash, course SE. Thence over gently rolling land.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 26
 S 35
 1919

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

~~41.60~~ Intersect the Arizona-New Mexico Boundary Line, ~~10.00 chs.~~ S. $0^{\circ}2'$ W., of the 320 mile mon., hereinbefore described. at the point of intersection, set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in the ground, deposit marked (x) stone, and raise a mound of stone around post, for closing cor. of secs. 26 and 35, with brass cap, marked

T12S
 CC S26 NEW
 S35 MEK.
 R32E
 1919

Land, mountainous and rolling.
 Soil, rocky, 3rd rate.
 No timber.
 Undergrowth, cactus.

 From cor. of secs. 26, 27, 34 and 35,
 N. $0^{\circ}2'$ E., bet. secs. 26 and 27,
 Over mountainous land, thru. scattering undergrowth.
 Ascend 90 ft.

5.50 Spur, slopes NE. Descend 125 ft.
 27.00 Wash, course E. Thence over rolling land.
 29.50 Road, brs. E. and W.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

See corrective survey notes on page 28 of this book.

18 Completion of Subdivision of frac1.T.12 S.,R. 32 E.

Chains.

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

S27	S26
-----	-----

1919

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

- 53.50 Ascend 295 ft.
 58.50 Cliff, 50 ft. high, brs. E. and W. Continue ascent.
 79.00 Gulch, course SE. Continue ascent.
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 14 ins. in the ground, deposit marked (x) stone, and raise a mound of stone around post for cor. of secs. 22, 23, 26 and 27, with brass cap, marked

T12S	R32E
S22	S23
S27	S26

1919

Land, mountainous and rolling.
 Soil, sandy and rocky, 4th rate.
 No timber.
 Undergrowth, cedar, catclaw and cactus.
 Fair grass.

- 40.00 N. $89^{\circ}56'$ W., on a random line, bet. secs. 22 and 27.
 80.30 Set temp. $\frac{1}{4}$ sec. cor.
 80.30 Intersect N. and S. line, 12 lks. S. of the true point for cor. of secs. 21, 22, 27 and 28, witnessed 0.17 chs. S, $0^{\circ}2'$ W., as described hereinbefore.
 From true point for cor.,
 S. $89^{\circ}51'$ E., on a true line, bet. secs. 22 and 27.
 Over rolling and mountainous land, thru. scattering undergrowth.
 Ascend 65 ft.
 19.30 Spur, slopes S. Descend 180 ft.
 25.30 Wash, course SE. Ascend 75 ft., over SW. slope.
 40.15 Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$	S 22
	S 27
	1919

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

From this cor.,
 A. E. Lyall's house brs. S. $21\frac{3}{4}^{\circ}$ E.
 Descend.

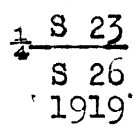
- 52.21 From this point,
 A. E. Lyall's house brs. S. $5^{\circ}18'$ E.
 63.30 Wash, course S. Ascend 165 ft.
 75.30 Spur, slopes S. Descend 165 ft.
 80.30 The cor. of secs. 22, 23, 26 and 27.
 Land, rolling and mountainous.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, cedar, cactus and scrub oak.

- East, on a true line, bet. secs. 23 and 26.
 Over mountainous land, thru. scattering undergrowth.
 Ascend 35 ft.
 3.05 Descend.
 5.00 Canyon, course S. Ascend 270 ft.
 16.65 Spur, slopes S. Descend 185 ft.

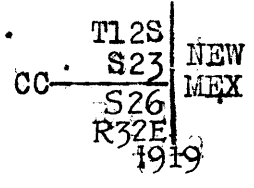
Completion of Subdivision of frac1.T.12 S.,R. 32 E.

Chains.

24.46 Canyon, course S. Ascend 35 ft.
 28.80 Descend 230 ft.
 34.28 Canyon, course S. Ascend 240 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 14 ins. in the ground, deposit marked (x) stone, and raise a mound of stone around post, for 1/4 sec. cor., with brass cap, marked

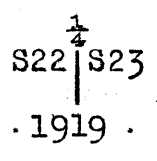


41.61 Intersect the Arizona-New Mexico Boundary line.
~~at a point 9.75 chs. S. 081 W., from 319 mile point, and~~
~~52.96 chs. S. 081 W., from a point on State boundary,~~
~~1 1/4 W. of witness cor. to 318 mile point,~~
 At the point of intersection, set an iron post, 3 ft. long, 2 ins. in diam., 10 ins. in the ground, deposit marked (x) stone, and raise a mound of stone around post, for closing cor. of secs. 23 and 26, with brass cap, marked

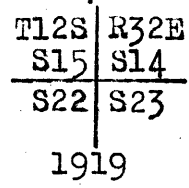


Land, mountainous.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, cedar and cactus.

 From cor. of secs. 22, 23, 26 and 27,
 N. 0° 02' E., bet. secs. 22 and 23.
 Over mountainous land, thru. scattering undergrowth.
 Ascend 1055 ft.
 36.80 Ridge, brs. NE. and SW. Descend.
 38.60 From this point, U.S.G.S. B.M., Elevation 6507 ft., brs.
 E. 0.75 chs. dist.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 12 ins. in the ground, deposit marked (x) stone, and raise a mound of stone around post, for 1/4 sec. cor., with brass cap, marked



Descend 900 ft.
 62.73 Wash, course NE. Continue descent.
 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,



And raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.
 Land, mountainous.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, scrub oak, cedar and cactus.

 40.00 N. 89° 51' W., on a random line, bet. secs. 15 and 22.
 Set temp. 1/4 sec. cor.

See Corrective Survey notes on page 28 of this book.

20 Completion of Subdivision lines of fracl. T.12 S. R. 32 E.

Chains.
 80.45 Intersect N. and S. line, 9 lks. N. of the cor. of secs. 15, 16, 21 and 22, hereinbefore described.
 Thence,
 S. 89° 55' E., on a true line, bet. secs. 15 and 22.
 Over rolling and mountainous land, thru. scattering undergrowth.
 Descend 130 ft.
 12.00 Draw, course S. Ascend 215 ft.
 32.00 Ridge, brs. NW. and SE. Thence across level top.
 38.00 Descend over cliffs, bear NW. and SE.
 40.22 1/2 Set an iron post, 3 ft. long, 1 in. in diam., 16 ins. in the ground, deposit marked (x) stone, and raise a mound of stone around post, for 1/4 sec. cor., with brass cap, marked

1/4 S 15
 S 22
 1919

65.00 Descend 90 ft.
 80.45 Descend NE. slope, over broken cliff, 475 ft.
 The cor. of secs. 14, 15, 22 and 23.
 Land, mountainous and rolling.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, scrub cedar, scrub oak, cactus and greasewood.

 East, on a true line, bet. secs. 14 and 23.
 Over mountainous land, thru. scattering undergrowth.
 Descend 230 ft.
 6.00 Canyon, course NE. Ascend 50 ft.
 12.60 Spur, slopes NE. Descend 95 ft.
 16.80 Wash, course N. Ascend 105 ft.
 21.50 Spur, slopes NE. Descend 115 ft.
 26.23 Wash, course NE. Ascend 245 ft.
 35.00 Cliff, 50 ft. high, brs. N. and S. Continue ascent.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground, deposit marked (x) stone, and raise a mound of stone around post; for 1/4 sec. cor., with brass cap, marked

1/4 S 14
 S 23
 1919

41.65 Intersect the Arizona-New Mexico Boundary line, ~~at a point 9.84 chs. S. 0° 11' W., from 318 mile point, and 26.90 chs. N. 0° 11' W. from point on State boundary, 1 in. W. of the witness cor. to 318 mile point.~~
 At the point of intersection, set an iron post, 3 ft. long, 2 ins. in diam., 10 ins. in the ground, deposit marked (x) stone, and raise a mound of stone around post, for closing cor. of secs. 14 and 23, with brass cap, marked

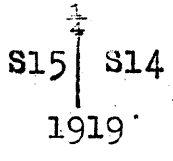
T12S
 CC S14 NEW
 S23 MEX
 R32E
 1919

Land, mountainous.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, scrub cedar, scrub oak and cactus.

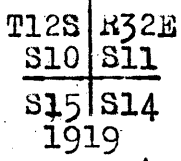
See corrective survey notes on page 28 of this book.

Chains.

From cor. of secs. 14, 15, 22 and 23,
 N. 0° 2' E., bet. secs. 14 and 15.
 Over mountainous land, thru. scattering undergrowth.
 Descend.
 3.50 Wash, course E. Ascend 100 ft.
 15.00 Spur, slopes NE. Descend 195 ft.
 22.00 Wash, course NE. Ascend 80 ft.
 28.00 Spur, slopes NE. Descend 200 ft.
 39.00 Wash, course NE.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in
 the ground, deposit marked (x) stone; and raise a mound
 of stone, around post, for $\frac{1}{4}$ sec. cor., with brass cap,
 marked

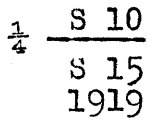


Thence over gently rolling land.
 50.00 Wash, course NE. Ascend 115 ft.
 69.00 Descend.
 69.90 Wash, course NE. Ascend 30 ft.
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in
 the ground, deposit marked stone, and raise a mound of
 stone around post, for cor. of secs. 10, 11, 14 and 15,
 with brass cap, marked



Land, mountainous and gently rolling.
 Soil, rocky, 4th rate.
 Timber, none.
 Undergrowth, catclaw, scrub cedar and scrub oak.

40.00 N. 89° 55' W., on a random line, bet. secs. 10 and 15.
 80.46 Set temp. $\frac{1}{4}$ sec. cor.
 Intersect N. and S. line, 28 lks. N. of the cor. of secs. 9, 10,
 15 and 16, hereinbefore described.
 Thence,
 N. 89° 53' E., on a true line, bet. secs. 10 and 15.
 Over mountainous land, thru. scattering undergrowth.
 Ascend, 445 ft., over NW. slope.
 0.30 Cliff, 60 ft. high, brs. N. and S. Continue ascent.
 22.40 Spur, slopes NW. Descend 140 ft.
 29.65 Saddle in spur, slopes NE. Continue descent.
 40.23 Set an iron post, 3 ft. long, 1 in. in diam., 5 ins. in the
 ground; and raise a mound of stone around post, for
 $\frac{1}{4}$ sec. cor., with brass cap, marked



from which,
 A cedar, 10 ins. in diam., brs. N. 84 $\frac{1}{2}$ ° E., 207 lks.
 dist., mark " $\frac{1}{4}$ S 10 BT."
 A cedar, 12 ins. in diam., brs. S. 39° W., 80 lks. dist.,
 mark " $\frac{1}{4}$ S 15 BT."

45.00 Head of gulch, course SE. Ascend 40 ft.
 48.00 Ridge, brs. NE. and SW. Descend 540 ft., over broken cliffs,
 facing SE.
 80.46 The cor. of secs. 10, 11, 14 and 15.
 Land, mountainous.
 Soil, rocky, 4th rate.
 No timber. Undergrowth, scrub cedar, scrub oak, cactus and
 ocotilla.

22 Completion of Subdivision lines of frac1.T12 S. R.32 E.

Chains.

East, on a true line, bet. secs.11 and 14.
Over rolling land, thru. scattering undergrowth.
Descend 70 ft.

10.00 Thence over gently rolling land.

18.90 Wash, 10 lks. wide, course NE.

29.00 Wash, 10 lks. wide, course NE.

30.20 Same wash, course SE.

33.90 Same wash, course NE.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground, deposit marked (x) stone, and raise a mound of stone around post, for 1/4 sec. cor., with brass cap, marked

1/4 S 11
S 14
1919

41.73 Intersect Arizona-New Mexico Boundary line ~~at a point,~~
~~8.00 chs. S. 0°11'W., of the 317 mile run, heretofore~~
~~described.~~

At the point of intersection, Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for closing cor. of secs. 11 and 14, marked on brass cap,

T12S
S11 NEW
CC MEX
S14
R32E
1919

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

Land, rolling and gently rolling.

Soil, rocky, 4th rate.

No timber.

Undergrowth, cedar, scrub oak, cactus and ocotilla.

From cor. of secs. 10, 11, 14 and 15,
N. 0° 2' E., on a random line, bet. secs. 10 and 11,

40.00 Set temp. 1/4 sec. cor.

80.36 Intersect E. and W. line, 21 lks. W. of the original cor. of secs. 2, 3, 10 and 11, which is an iron post, 2 ins. in diam., projecting 12 ins. above ground, firmly set, properly marked on brass cap, and witnessed by a mound of stone, W. of cor., and one properly marked bearing tree, an oak, 12 ins. in diam., N. 65° W., 183 lks. dist.

Thence,
S. 0° 11' W., on a true line, bet. secs. 10 and 11.
Over rolling land, thru. scattering undergrowth.

0.45 Wash, course NE.

5.45 Road, brs. E. and W.

23.35 Road, brs. E. and W.

30.45 Ascend 90 ft.

40.18 Set an iron post, 3 ft. long, 1 in. in diam., 14 ins. in the ground, deposit marked (X) stone, and raised a mound of stone, around post, for 1/4 sec. cor., with brass cap, marked

1/4 S10 | S11
1919

Ascend 580 ft.; over NE, slope.

57.35 Spur, slopes E. Descend 450 ft.

68.35 Cliff, 60 ft. high, brs. NE. and SW. Continue descent.

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

Land, rolling and mountainous.

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

No timber.

Undergrowth, scrub cedar, cactus, greasewood.

Fair grass.

See corrective survey notes on page 28 of this book.

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

GENERAL DESCRIPTION.

This township is very rough and mountainous, lying entirely within the Peloncillo Mountains, except for a very small area in the northeast corner. The greatest elevation is 6507 feet above sea level.

On the west, the drainage is to the west; the southeastern part drains to the southeast, and the northeastern corner to the east.

The soil is very thin and rocky, and is of 3rd and 4th rate.

East of the divide, there is scattering oak and cedar timber, all of little value; west of the divide, scattering cedar alone.

Some claims, supposed to contain nitrate bearing rock have been staked out in sections 29 and 32; but so far as known, no development work has been done. There are no other evidences of mineral.

Small springs are found in secs. 14, 15, 27 and 32. The water is good, but of limited quantity.

There is one settler in sec. 27.

The entire township may be classed as fair grazing land.

Boundaries of that part of fracl. Township 12 South, Range 32 E., Subdivided under this Group.

Latitudes, Departures and Closing Errors.

Line designated.	True Bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South Boundary.	West,	281.79				281.79
Subdivisional Boundary	N. 0° 1' E.	400.00	400.00		.12	
	East,	281.51			281.51	
Arizona-New Mexico Boundary,	South,	72.00		72.00		
	S. 0° 11' W.	78.46		78.46		.25
	S. 0° 1' W.	159.90		159.90		.04
	S. 0° 2' W.	80.32		80.32		.04
	S. 0° 18' W.	9.61		9.61		.05
Convergency,					.23	
<u>Totals.</u>			400.00	400.29	281.86	282.17
				400.00		281.86
<u>Error in latitude.</u>			0.29			
<u>Error in departure.</u>					0.31	

See corrected table on page 29 of this book.

The corrective surveys hereinafter described, commenced March 31, 1921, and executed on the dates shown on diagram on page 1, by Sidney E. Blout, U.S. Cadastral Engineer, using a Buff solar transit No. 9984, with U-shaped standards, $4\frac{1}{2}$ -inch horizontal circle, 4-inch vertical circle, and improved Smith solar attachment. All azimuth determinations are accomplished with the solar attachment except the special observations on Polaris, and the sun for meridian upon which to test the solar attachment, as stated in the field notes.

All measurements are made with a Lufkin 5-chain steel tape 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 true horizontal distances.

The instrument was examined, tested on the meridian at the Federal Building in Phoenix, Arizona, March 20, 1921, found correct, and was approved by the Assistant Supervisor of Surveys for Arizona, conditional upon satisfactory field tests.

Examine the adjustments of the transit, and find them to be correct; then, to test the solar apparatus, by comparing its indications, resulting from solar observations, made during a.m. and p.m. hours with a meridian established by observations on Polaris, proceed as follows:

March 31, 1921. Near the Southern Pacific Railway depot in San Simon, Arizona, T. 13 S., R. 30 E., latitude $32^{\circ}16'N$, longitude, $109^{\circ}13'W$, at 6h.53m.18s., p.m., l.m.t., by watch set to read the correct local mean time, observe Polaris at western elongation, making two observations, one each with the telescope in direct and reversed positions, and mark the mean point in the line thus determined on a stake driven in the ground about 5 chs. N. of instrument.

Azimuth of Polaris at elongation $1^{\circ}19'W$.

April 1, 1921, at 8h.30m.a.m., lay off the azimuth of Polaris, $1^{\circ}19'$ to the east, and mark the meridian thus determined by a tack driven in a stake set in the ground about 5 chains N. of station.

At 9h.04m., a.m., l.m.t.; set off $32^{\circ}16'N$ on the lat. arc; $4^{\circ}31'N$ on the decl. arc, and determine a meridian with the solar, and mark a point thereof by a tack driven in the stake already set about 5 chains N. of instrument. This mark falls $01'$ in angular measure east of the point established by the Polaris observation.

At 5h.04m. p.m., l.m.t., set off $32^{\circ}16'N$ on the lat. arc; $4^{\circ}40'N$ on the decl. arc, and determine a meridian with the solar, and mark a point thereof by a tack driven in the stake already set about 5 chains N. of instrument. This mark coincides with the mark established by the Polaris observations.

The solar apparatus, by a.m. and p.m. observations, defines positions for meridians, respectively about $01'$ east of and coincident with the meridian established by the Polaris observations; therefore, conclude that the adjustments of the instrument are satisfactory.

Corrective Retracement of part of the
26 Arizona-New Mexico Boundary--317 mile mon. to 320 mile mon.

Chains.

- From the notes of the original survey, it appears that the 319 mile point was never monumented; therefore, retrace as follows:
From the 320 mile mon.,
North, on random line on 320th and 319th miles.
- 123.58 Fall 09 lks.W. of the witness cor. to 318 mile point, hereinafter described.
Continue line and measurement.
- 160.32 (Record dist. of 36.74 chs.N. from W.C.) Fall 09 lks.W. of original point for 318 mile mon.
True course and dist. of line back to 320 mile mon. are therefore S.0°2'W., 160.32 chs., which gives 80.16 chs. as the length of each of the 319th and 320th miles.
-
- From original point for 318 mile mon.,
North, on random line, on 318th mile.
- 77.94 Fall 14 lks.W. of the 317 mile monument, which is a granite stone 14x14x8 ins. above ground, firmly set, marked "317" on N.side, "32°WL" on S.; "ARIZ." on W., and "N.M." on E.
True course and dist. of line back to original 318 mile point are therefore, S.0°6' W., 77.94 chs., and total dist. back to 320 mile monument is 160.32 chs.+ 77.94 chs.= 238.26 chs.
As neither the 318 or 319 mile points are monumented at their true point, it is considered the best practice to change the record dist. from 318 mile point to the witness cor. thereto, and distribute the deficiency of measurement found in the total length of 318th, 319th and 320th miles; equally between said miles, which gives the true courses and lengths of said miles as follows:
- 318th mile: S.0°6'W., 79.42 chs.
319th mile: S.0°2'W., 79.42 chs.
320th mile: S.0°2'W., 79.42 chs.
-
- From 317 mile monument described above,
S.0°6'W., on true line, on 318th mile.
Over rolling land, thru: scattering undergrowth.
- 5.35 Wash, 10 lks.wide, course E. Ascend 20 ft., over N.slope.
8:18 Intersect closing cor. of secs. 11 and 14, frac 1. T. 12 S., R. 32 E., Arizona, which is an iron post; 2 ins. in diam., projecting 12 ins. above ground, firmly set, marked on brass cap,
- | | |
|-------|------|
| T12S | |
| S11 | NEW |
| S14 | MEX. |
| R32E | |
| 1919. | |
- and witnessed by a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
No bearing trees.
- 20.00 Spur, slopes NE.. Descend 20 ft., over SE.slope.
43.65 Wash, 8 lks.wide, 4 ft. deep, course NE.
62.05 Wash, 12 lks.wide, course NE. Leave rolling and enter mountainous land. Ascend over stony NW. slope.
- 75.50 Point of spur, slopes NW. Descend 15 ft. to
75.55 Head of gulch, course W. Ascend 60 ft., over N.slope, to
79.42 The reestablished 318 mile point on steep slope, where setting of monument is impracticable. This point is now 35.26 chs. N. of the witness cor. thereto, whereas the original record gives 36.74 chs.
Land, rolling and mountainous.
Soil, rocky, 4th rate.
No timber. Undergrowth, scattering sage brush, scrub oak and cactus.
-

Corrective Retracement of part of the Arizona-New Mexico Boundary--317 mile mon. to 320 mile mon.

Chains.

8.73 From reestablished 318 mile point, S.0° 2'W., on true line, on 319th mile. Over mountainous land, thru. scattering undergrowth. Ascend 280 ft., over N, slope, to Intersect the closing cor. of secs. 14 and 23, frac. T. 12 S., R. 32 E., Arizona, which is an iron post, 2 ins. in diam., projecting 24 ins. above ground, firmly set in a mound of stone, marked on brass cap,

	T12S	
CC	S14	NEW
	S23	MEX.
	R32E	
	1919	

22.38 No bearing trees. Ascend 210 ft., over NW. slope, to Gulch, 15 lks. wide, 8 ft. deep, course NW. Ascend 190 ft., over NW. slope, to

35.26 (26.53 chs. S.0° 2'W. from closing cor. of secs. 14 and 23), Spur, slopes NW. Witness cor. to 318 mile point, which is 35.26 chs. S. therefrom, is 2 lks. E. of this point. This W.C. is a granite stone 36x20x18 ins. above ground, firmly set, marked "WC 318" on N. side, "32°WL" on S., "ARIZ." on W. and "NM" on E.

54.81 Ascend 450 ft., over very broken rocky NW. slope, to Spur, slopes SW. Descend 500 ft., over steep broken SW. slope.

68.41 Bottom of canyon, course SE. Thence over broken granite cliffs, bearing NW. and SE. facing NE. Ascend about 150 ft. to

79.42 The reestablished 319 mile point falls on face of cliff, and is inaccessible. Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, scattering sage brush, scrub cedar and cactus.

8.84 From reestablished 319 mile point, S.0° 2'W., on a true line, on 320th mile. Over mountainous land, thru. scattering undergrowth. Ascend 100 ft., over broken granite cliffs. Top of cliffs, bearing NW. and SE. Thence over point of spur, sloping SE.

9.24 (53.40 chs. S.0° 2'W. from point on bdy., 2 lks. W. of witness cor. to 318 mile point), Intersect the closing cor. of secs. 23 and 26, frac. T. 12 S., R. 32 E., Arizona, which is an iron post, 2 ins. in diam., projecting 24 ins. above ground, firmly set in a mound of stone, marked on brass cap,

	T12S	
CC	S23	NEW
	S26	MEX.
	R32E	
	1919	

12.34 Continue over point of spur, sloping SE. Top of same cliffs, bearing E. and W., facing S. Descend 270 ft., to

15.84 Foot of same cliffs. Descend 100 ft., over S. slope.

24.85 Gulch, 10 lks. wide, course SW. Leave mountainous, and enter rough rolling land, sloping SW. Ascend 35 ft.

32.20 Spur, slopes SW. Descend 170 ft.

44.04 Wash, 20 lks. wide, 3 ft. deep, course SW. Descend gradually, over SW. slope.

78.32 Intersect a stone, 8x4x10 ins. above ground, firmly set, marked "CC" on E. face, and witnessed by mound of stone E. of cor. No bearing trees.

28 Corrective Retracement of part of the
Arizona-New Mexico Boundary--317 mile mon. to 320 mile mon.

Chains.

This is closing cor. of secs. 30 and 31, T. 22 S., R. 21 W. of the New Mexico Base and Meridian.
79.42 Intersect the 320 mile monument.
Land, mountainous and rolling.
Soil, gravelly and rocky, 3rd and 4th rate.
No timber.
Undergrowth, scattering sage brush and cactus.

Correction of survey of part of the Subdivision lines of
fracl. Township 12 South, Range 32 East.

Closing of line bet. secs. 26 and 35.

From the $\frac{1}{4}$ sec. cor. of secs. 26 and 35, fracl. T. 12 S., R. 32 E., East, on true line, bet. secs. 26 and 35, continuing measurement from sec. cor.
41.56 Intersect the closing cor. of secs. 26 and 35, which is an iron post, 2 ins. in diam., projecting 24 ins. above ground, firmly set in a mound of stone, and properly marked on brass cap,
Thence N. 0° 2' E., on Arizona-New Mexico State Bdy.
9.90 Intersect the 320 mile monument.

Closing of line bet. secs. 23 and 26.

Closing cor. of secs. 23 and 26 is on State bdy. at 9.24 chs. S. 0° 2' W. from 319 mile point, and 53.40 chs. S. 0° 2' W. from a point 2 lks. W. of witness cor. to 318 mile point.

Closing of line bet. secs. 14 and 23.

The closing cor. of secs. 14 and 23 is on State bdy. at 8.73 chs. S. 0° 2' W. from reestablished 318 mile point, and 26.53 chs. N. 0° 2' E., from a point 2 lks. W. of witness cor. to said mile point.

Closing of line, bet. secs. 11 and 14.

The closing cor. of secs. 11 and 14 is on State bdy. at 8.18 chs. S. 0° 6' W., from 317 mile monument.

Chains.

Boundaries of that part of Fracl. T.12 S., R.32 E.
surveyed under this Group.

Latitudes, departures, and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.		
			N.	S.	E.	W.	
South boundary,	West,	281.79				281.79	
Subdivisional Boundary,	N.0°1'E.	400.00	400.00		.12		
	East,	281.51			281.51		
Arizona-New Mexico Bdy.,	South,	72.00		72.00			
	S.0°6'W.	79.42		79.42		.14	
	S.0°2'W.	239.16		239.16		.14	
	S.0°18'W.	9.61		9.61		.05	
Convergency,					.23		
<u>Totals.</u>			400.00	400.19	281.86	282.12	
				400.00		281.86	
<u>Error in latitude.</u>				0.19			
<u>Error in departure.</u>						0.26	

BOOK 3480

CERTIFICATE OF UNITED STATES TRANSITMAN.

I, Karl L. Siebecker, U. S. Transitman, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 102, Arizona, bearing date of the 6th day of October, 1919, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, retraced surveyed all those parts or portions of the Arizona- New Mexico boundary, and surveyed all those parts or portions of the Subdivision lines of

Fractional Township 12 South, Range 32 East,

of the Gila and Salt River

Base and Meridian, in the State of Arizona, which are represented in the foregoing field notes, and by diagram on page 1 hereof retracement and said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General, for Group 102, Arizona,

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

Place Noguta, Mont. Date Sept. 5th 1921

Karl L. Siebecker U. S. Transitman

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

, 191

The foregoing field notes of the survey of

executed by

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

U. S. Surveyor General.

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

U. S. Surveyor General.

CERTIFICATE OF UNITED STATES CADASTRAL ENGINEER.

I, Sidney E. Blout, U. S. Cadastral Engineer, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 102, Arizona, bearing date of the 28th day of March, 1921, 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, corrected surveyed, all those parts or portions of the Arizona-New Mexico State boundary, and the Subdivision lines of

Fractional Township 12 South, Range 32 East

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 correction 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 102, Arizona,

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

Phoenix, Arizona.

Date SEP 12 1921

Sidney E. Blout
U. S. Cadastral Engineer

APPROVAL

OFFICE OF THE UNITED STATES SURVEYOR GENERAL

191

The foregoing field notes of the survey of

executed by

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

U. S. Surveyor General.

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

U. S. Surveyor General.

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BOOK 3480

CERTIFICATE OF UNITED STATES TRANSITMAN.

I, Guy R. Veal, U. S. Transitman, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 102, Arizona, bearing date of the 6th day of October, 1919, 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

Fractional Township 12 South, Range 32 East,

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 102, Arizona,

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

Place - Lawas City, Mich. - - -
Date - August 15, 1926. - - -

Guy R. Veal
U. S. Transitman

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

PHOENIX, ARIZ. SEP 15 1921

The foregoing field notes of the retracement of part of the Arizona-New Mexico boundary, and of the survey of part (completion) of the Subdivision lines of

Fractional Township 12 South, Range 32 East,

of the Gila and Salt River Base and Meridian,

in the State of Arizona,

and of the corrections thereof

executed by Guy R. Veal and Karl L. Siebecker, U. S. Transitmen, and Sidney E. Blout, U.S. Cadastral Engineer.

under special instructions dated October 6, 1919 and March 28, 1921 for Group 102 Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frederick O. Gott
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.