

Original

Book F

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE

BOOK 4299

FIELD NOTES

of the

Resurvey of a Portion of the Arizona-New Mexico Boundary,

and

Resurvey and Survey of a Portion of the Subdivisional Lines,

Completing the Subdivision of

Township 23 South, Range 32 East,

Of the Gila and Salt River Meridian,

In the State of Arizona

EXECUTED BY

Benjamin J. Kinsey, Cadastral Engineer
General Land Office

Under special instructions dated October 5, 1938, which provided
for the surveys included under Group No. 224, bearing the approval of the
Commissioner of the General Land Office under date of November 18, 1938
and assignment instructions dated November 28, 1938

Survey commenced July 24, 1939

Survey completed August 12, 1939

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BOOK 4280

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Township 23 South, Range 32 East.

The resurveys and surveys herein described were executed with Young and Sons Transit, Serial No. 8570, and Buff light mountain transit, Serial No. 18000. Both transits are equipped with full vertical circle and the improved Smith solar attachment, and otherwise conform to the standard specifications of the General Land Office. They were approved by the district cadastral engineer on November 28, 1938, conditional upon satisfactory field tests. All of the instrumental adjustments were examined before making the field tests hereinafter described.

The directions of the lines were determined by the solar transit method. The measurements were made with a Dietzgen steel tape, 5 chs. in length, graduated every link for the first 100 lks., and thereafter at intervals of 10 lks. The tape was tested by comparison with a Lufkin standard and found correct. The measurements were made on the slope and the vertical angle of each interval was ascertained with a clinometer in good adjustment. The horizontal equivalents are entered in the field note record.

The data furnished with the special instructions give the geographical position of the SE. cor. of T.23 S., R.32 E., G. & S.R. meridian, Arizona, as follows: latitude $31^{\circ}22'45''$ N., and longitude $109^{\circ}02'59''$ W.

July 22, 1939, at camp about 30 chs. S. of the $\frac{1}{4}$ sec. cor. on N. bdy. of sec. 5, T.24 S., R.32 E., at 11h 46m p.m., l.m.t., observe Polaris at eastern elongation, making four observations, two each with the telescope in direct and reversed positions, and place a tack at the mean point in the line thus determined on a peg driven firmly in the ground 5 chs. N.

July 23, after sunrise, lay off the azimuth of Polaris, $1^{\circ}12'$ to the west, and make a meridian mark on a second peg driven firmly in the ground about 5 chs. N.

At 9h 0m a.m., app.t., set off $31^{\circ}22\frac{1}{2}'$ N., on the lat. arcs; $20^{\circ}11'$ N., on the decl. arcs; and orient the instruments with the solars; the lines of sight agree with the meridian established by Polaris observation.

At app. noon, with the lat. arcs unchanged, observe the sun on the meridian; the resulting readings of the decl. arcs are $20^{\circ}09'$ N.; which agrees with the computed declination of the sun.

At 3h 0m p.m., app.t., with lat. arcs unchanged, set off $20^{\circ}08'$ N., on the decl. arcs; and repeat the test of the solars; the lines of sight agree with the meridian established by Polaris observation.

As all observations taken during the usual hours of solar work agree within 1' of the true meridian, conclude that the instruments are in satisfactory adjustment.

Preliminary to the following described resurvey, the necessary lines of the original survey are retraced and diligent search is made for all original corners. Identified corners of the original survey are remonumented, except as otherwise noted, at their original points. All necessary lost corners are proportionately reestablished based on the record of the original survey. The retrace-ment data are thoroly verified and only true line notes are given herein.

2.

Resurvey of a Portion of the Arizona-New Mexico Boundary.

chains

The Arizona-New Mexico boundary was surveyed in 1875 by C. Robbins, deputy surveyor, who established mile corners thereon numbered consecutively from the N. to the S.

The involved boundary north of mile corner No. 382 was resurveyed in 1933, in connection with the survey of T.22 S., R.32 E.

The involved boundary south of mile corner No. 387 was resurveyed in 1937, in connection with the survey of T.34 S., R.22 W., New Mexico.

The following notes describe the resurvey of a portion of the boundary along the E. bdy. of T.23 S., R.32 E.

The 382 mile monument is a porphyry sandstone, firmly set, 30x24x13 ins. above ground, mkd. and witnessed as described in the field notes of the portion of the eastern boundary of the state of Arizona resurveyed in 1933.

Thence,

S.0°14'E., on true line on 383d mile.

Over mountainous land,
thru scattering timber and undergrowth.

Asc. 168 ft. over NE. slope.

6.27 Fence, bears N.85°W. and S.85°E.

7.57 Spur, slopes W.; desc. 58 ft. over SW. slope.

12.45 Wash, 10 lks. wide, course SW.; asc. 64 ft. over NW. slope.

16.57 Ridge, bears N.60°E. and SW.;
desc: 578 ft. over broken SE. slope.

55:00 Junction of washes from SE.; N.20°E.; and E.; course
S.70°W.; asc. 88 ft. over rolling NW. slope.

68.40 Top of ascent; thence over level land.

79.68 The 383 mile monument; a granite stone, 16x12x7 ins.,
firmly set in a mound of stone, marked and witnessed as
described in the official record.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, oak, pinon, juniper and madrone.

Undergrowth, greasewood, catclaw and cacti.

S.0°07'E., on true line on 384th mile.

Over level land.

30.00 Leave level land; asc. gradually over NW. slope.

40.90 Wash, 10 lks. wide, course N.40°W.;
asc. 455 ft. over N. slope.

61.10 Spur, slopes W.; desc. 317 ft. over S. slope.

77.53 Wash, 10 lks. wide, course W.; asc. 51 ft. over NW. slope.

80.99 Proportional distance,

Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the

Resurvey of a Portion of the Arizona New Mexico Boundary.

chains

ground to bedrock, with a stone, 12x10x8 ins., mkd. X, deposited at the base, and in a mound of stone to top, for 384 mile monument, with brass cap mkd.

384M

ARIZ | N. MEX

1939

Land, mountainous.
Soil, rocky, 4th rate.
Timber, oak, piñon, juniper and madrone
Undergrowth, oakbrush, manzanita and cacti.

S. 0° 07' E., on true line on 385th mile.

Over mountainous land,
thru scattering timber and undergrowth.

Asc. 359 ft. over NW. slope.

- 9.94 Spur, slopes W.; desc. 115 ft. over SW. slope.
- 12.94 Wash, 10 lks. wide, course SW.;
asc. 178 ft. over NW. slope.
- 20.44 Fence, on ridge, bears E. and W.;
desc. 284 ft. over SW. slope.
- 33.34 Wash, 10 lks. wide, course SW.;
asc. 93 ft. over steep NW. slope.
- 38.94 Spur, slopes SW.; desc. 200 ft. over SE. slope.
- 47.64 Wash, 10 lks. wide, course SW.;
asc. 36 ft. over NW. slope.
- 56.24 Spur, slopes W.; desc. 292 ft. over SW. slope.
- 79.00 Head of ravine, course W.; asc. 10 ft. over N. slope.
- 80.99 The 385 Mile monument; a granite stone 20x12x5 ins., firmly set in a mound of stone, with illegible chisel marks on 4 sides.

At point for cor.

Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground to bedrock, with cor. stone deposited alongside, and rebuild the mound of stone around post to top, for 385 Mile monument, with brass cap mkd.

385M.

ARIZ | N MEX

1939

Land, mountainous.
Soil, rocky, 4th rate.
Timber, oak, juniper and madrone,
Undergrowth, oakbrush, manzanita and cacti.

Resurvey of a Portion of the Arizona-New Mexico Boundary.

chains

S.0°15'E., on true line on 386th mile.

Over mountainous land, thru scattering timber and undergrowth.

Asc. 10 ft. over N. slope.

0.95 Ridge, bears W. and E.; desc. 160 ft. over S. slope.

11.25 Wash, 20 lks. wide, course W.; asc. 124 ft. over NW. slope.

14.50 Spur, slopes NW.; desc. 26 ft. over SW. slope.

19.20 Wash, 10 lks. wide, course NW.; asc. 502 ft. over NE. slope.

49.10 Ridge, bears SE. and NW.; desc. 300 ft. over S. slope.

75.12 Proportional distance,

Set an iron post, 3 ft. long, 2 ins. diam., 14 ins. in the ground to bedrock, with a stone, 6x6x5 ins., mkd. X, deposited at the base, and in a mound of stone to top, for 386 mile monument, with brass cap mkd.

386M

ARIZ | N MEX

1939.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, oak, juniper and madrone.

Undergrowth, oakbrush, manzanita and cacti.

S.0°15'E., on true line on 387th mile:

Over mountainous land, thru scattering timber and undergrowth.

Desc. 37 ft. over S. slope.

2.50 Spur, slopes SW.; descend 180 ft. over SE. slope.

12.70 Shallow wash, 10 lks. wide, course SE.; asc. 29 ft. over NE. slope.

19.10 Spur, slopes E.; desc. 96 ft. over SE. slope.

24.10 Wash, 10 lks. wide, course SW.; asc. 314 ft. over NW. slope.

47.20 Ridge, bears E. and W.; desc. 290 ft. over SW. slope.

48.28 From this point Amos Taylor's house bears S.39°W., about 60 chs. dist., and a 1 room shack bears S.24°W.

61.80 Wash, 10 lks. wide, course SW.; asc. 52 ft. over NW. slope.

71.40 Spur, slopes SW.; desc. 65 ft. over S. slope.

75.12 The 387 Mile monument; an iron post, 2 ins. diam., firmly set, projecting 12 ins. above ground, with brass cap mkd. and witnessed as described in the official record, of New Mexico resurveys made in 1937.

From this point the same 1 room shack bears S.37½°W.

Resurvey of a Portion of the Arizona-New Mexico Boundary.

chains

Land, mountainous.
Soil, rocky, 4th rate.
Timber, oak, juniper, and madrone..
Undergrowth, oakbrush, manzanita, and cacti..

S.0°05'W., on true line on 388th mile.

Over mountainous land;
Thru scattering timber and undergrowth.

Desc. 210 ft. over SW. slope.

15.70 Wash, 10 lks. wide, course SW.; continue along general W. slope.

22.17 The closing corner of Ts.33 and 34 S., R.22 W., New Mexico; an iron post, 2 ins. diam., firmly set, projecting 12 ins. above ground, with brass cap marked and witnessed as described in the official record of New Mexico surveys.

29.60 Change to SW. slope; desc. 130 ft.

40.20 The 387½ mile cor.; an iron post, 1 in. diam., firmly set, projecting 14 ins. above ground, with brass cap marked and witnessed as described in the official record of New Mexico resurveys.

Desc. 80 ft. on general SW. slope.

45.80 Fence, bears E. and W.

47.67 The closing corner of Ts.23 and 24 S., R.32 E.; an iron post, 3 ins. diam., firmly set, projecting 12 ins. above ground, with brass cap marked and witnessed as described in the official record.

80:31 The 388 mile monument; an iron post, 2 ins. diam., firmly set, projecting 12 ins. above ground, with brass cap mkd. and witnessed as described in the official record of New Mexico resurveys.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, oak, juniper, and madrone.
Undergrowth, oakbrush, manzanita, and cacti.

Resurvey of a Portion of the Subdivision of T.23 S., R.32 E.

Reestablishment of surveys executed by J.B. Wright, in 1912.

The cor. of secs. 2,3,10 and 11 is an iron post, 2 ins. diam., firmly set, projecting 12 ins. above ground, with brass cap marked and witnessed as described in the official record.

Thence,

S.89°49'W., on true line bet. secs. 3 and 10.

Over mountainous land,
Thru scattering timber and undergrowth.

Asc. 125 ft. over E. slope.

2.70 Rocky ridge, bears N. and S.; desc. 604 ft. on broken NW.

Resurvey of a Portion of the Subdivision of T.23 S., R.32 E.

chains

slope.

25.50 Gulch, 10 lks. wide, course SW.;
asc. 103 ft. over SE. slope.

34.00 Tip of spur, slopes S.; desc. 80 ft. over SW. slope.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the
ground to bedrock, with a stone, 6x4x2 ins., mkd. X, dep-
osited at the base, and in a mound of stone to top, for $\frac{1}{4}$
sec. cor. of sec. 3, only, with brass cap mkd.

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

1939

41.25 The original $\frac{1}{4}$ sec. cor. of secs. 3 and 10; an iron post,
1 in. diam., firmly set, projecting 12 ins. above ground,
with brass cap mkd.

$\frac{1}{4}$ S 3
 $\frac{1}{4}$ S 10

1912

witnessed by a

mound of stone, 3 ft. base and 2 ft. high, N. of cor.

As this cor. now refers to sec. 10, only, I change the
marks on brass cap to read:

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

1939
1912

Destroy the mound of stone North of cor., and raise a
mound of stone, 3 ft. base, 2 ft. high, S. of cor.

Desc. 75 ft. over SW. slope.

48.10 Shallow wash, 10 lks. wide, course SE.;
asc. 47 ft. over SE. slope.

52.00 Spur, slopes S.; continue along S. slope.

57.00 Change to SE. slope; asc. 330 ft. on broken SE. slope.

61.50 Shallow wash, course SE.; continue ascent.

80.00 True point for cor. of secs. 3, 4, 9 and 10; falls on bluff
slope; point determined from witness cor. on top of bluff
which bears west, 1.30 chs. dist.

The witness cor. of secs. 3, 4, 9 and 10; an iron post, 2
ins. diam., firmly set, projecting 12 ins. above ground,
with brass cap mkd. and witnessed as described in the
official record.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, oak, juniper, and madrone.
Undergrowth, oakbrush, catclaw, and cacti.

From true point for cor. of secs. 3, 4, 9 and 10.

N.0°24'E.; on true line bet secs. 3 and 4.

Over mountainous land;
thru scattering timber and undergrowth.

8. Resurvey of a Portion of the Subdivision of T.23 S., R.32 E.

chains

sec. cor., with brass cap mkd.

1/4 S 16 | S 15

1939

from which

An oak, 6 ins. diam., bears N.33°E., 19 lks. dist., mkd. 1/4 S 15 BT.

An oak, 6 ins. diam., bears S.75°W., 16 lks. dist., mkd. 1/4 S 16 BT.

80.28 The cor. of secs. 9,10,15 and 16; an iron post, 2 ins. diam., 14 ins. above ground, firmly set, with brass cap mkd. and witnessed as described in the official record.

Subdivision of a Portion of T.23 S., R.32 E.

The cor. of secs. 2,3,34 and 35, on S. bdy. of Tp., is an iron post, 3 ins. diam., 14 ins. above ground, firmly set, with brass cap mkd. and witnessed as described in the official record.

Thence,

N.0°02'E., bet. secs. 34 and 35.

Over mountainous land, thru scattering undergrowth.

Asc. 256 ft. over SE. slope.

19.00 Spur, slopes SE.; desc. 191 ft. over NE. slope.

29.60 Wash, .20 lks. wide, course SE.; asc. 198 ft. on SW. slope.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground to bedrock, with a stone, 10x4x4 ins., mkd. X, deposited at the base, and in a mound of stone to top, for 1/4 sec. cor., with brass cap mkd.

1/4 S 34 | S 35

1939

Asc. 62 ft. on SW. slope.

43.30 Spur, slopes E.; desc. 86 ft. on NE. slope.

52.10 Wash, 15 lks. wide, course E.; asc. 160 ft. on SW. slope.

62.00 Ridge, bears NW. and SE.; asc. 210 ft. on SE. slope.

78.20 Spur, slopes NE.; desc. 30 ft. on NE. slope.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone to top, for cor. of secs. 26,27,34 and 35, with brass cap mkd.

T23S R32E

S 27 | S 26

S 34 | S 35

1939

from which

Subdivision of a Portion of T. 23 S., R. 32 E.

chains

An oak, 8 ins. diam., bears N.52°E., 45 lks. dist., mkd. T 23 S R 32 E S 26 BT.

An oak, 12 ins. diam., bears S.79°E., 44 lks. dist., mkd. T 23 S R 32 E S 35 BT.

An oak, 4 ins. diam., bears S.34°W., 51 lks. dist., mkd. BT.

No other tree available.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, oak and juniper.

Undergrowth, oakbrush, cacti, and mesquite.

East, on a random line bet. secs. 27 and 34.

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

79.94 Intersect the cor. of secs. 27, 28, 33 and 34; an iron post, 2 ins. diam., 12 ins. above ground, firmly set, mkd. and witnessed as described in the official record.

Thence,

East, on true line bet. secs. 27 and 34.

Over mountainous land;
thru scattering timber and undergrowth.

Asc. 323 ft. on broken SW. slope.

3.74 4-strand wire fence; bears S.70°W. and N.70°E., about 3 chs. to end at cliffs.

33.60 Ridge, bears NW. and SE.; desc. 60 ft. on NE. slope.

39.97 Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to bedrock, with stone, 8x6x4 ins., mkd. X, deposited at the base, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

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

1939

Desc. 350 ft. on broken NE. slope.

68.00 Change to N. slope.

79.94 The cor. of secs. 26, 27, 34 and 35.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, oak, pinon, and juniper.

Undergrowth, oakbrush, manzanita, and cacti.

East, on true line bet. secs. 26 and 35.

Over mountainous land;
thru scattering timber and undergrowth.

Desc. 500 ft. over NE. slope.

24.50 Baker wash, 50 lks. wide, course S.20°W., from E.; asc. 70 ft. up wash.

32.20 Leave wash, course W., from NE.;

10.

Subdivision of a Portion of T. 23 S., R. 32 E.

chains

asc. 80 ft. over bluff slope, faces NW.

34.70 Top of bluff, bears NE. and SW.; asc. 36 ft. on NW. slope.

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

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

1939 from which

An oak, 6 ins. diam., bears N.52°E., 78 lks. dist., mkd. $\frac{1}{4}$ S 26 BT.

An oak, 16 ins. diam., bears S.51°E., 46 lks. dist., mkd. $\frac{1}{4}$ S 35 BT.

Asc. 300 ft. on NW. slope.

70.80 Intersect the Arizona-New Mexico state boundary.

Set an iron post, 3 ft. long, 2 ins. diam., 14 ins. in the ground to bedrock, and in a mound of stone to top, for closing cor. of secs. 26 and 35, with brass cap mkd.

T23S
S 26
CC S 35 N MEX
R32E

1939 from which

An oak, 6 ins. diam., bears N.68°W., 42 lks. dist., mkd. CO. T. 23 S. R. 32 E S 26 BT.

An oak, 8 ins. diam., bears S.77°W., 63 lks. dist., mkd. CO. T. 23 S. R. 32 E S 35 BT.

From point of intersection the 387 mile monument on the state boundary bears S.0°15'E., 31.99 chs. dist.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, oak, pinon, and juniper.
Undergrowth, oakbrush, manzanita, and cacti.

At midpoint on the E. bdy. of sec. 35.

Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to bedrock, with a stone, 12x8x6 ins., mkd. X; deposited at the base, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor. of sec. 35, with brass cap mkd.

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

1939

From this point the 387 mile monument on the state boundary bears N.0°05'E., 7.84 chs. dist.

Subdivision of a Portion of T. 23 S., R. 32 E.

chains

- From the cor. of secs. 26, 27, 34, and 35.
 N. 0° 02' E., bet. secs. 26 and 27.
 Over mountainous land;
 thru scattering timber and undergrowth.
 Desc. 290 ft. over NE. slope.
- 10.00 Wash, 10 lks. wide, course E.; asc. 135 ft. on S. slope.
- 16.50 Spur, slopes E.; desc. 253 ft. on NE. slope.
- 35.00 Trail, bears W. and SE.
- 36.60 Wash, 15 lks. wide, course SE.; asc. 120 ft. on SE. slope.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., over a six inch cross (X) cut in bedrock, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap mkd.
- $\frac{1}{4}$
 S 27 | S 26
 1939
- Asc. 205 ft. on SE. slope.
- 52.00 Spur, slopes SW.; desc. 173 ft. on NW. slope.
- 64.90 Wash, 15 lks. wide, course SW.; asc. 313 ft. on SW. slope.
- 75.60 Top of bluffs, bears NE. and SW.; asc. 105 ft. on SE. slope.
- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground to bedrock, with a stone, 10x6x4 ins., mkd. X, deposited at the base, and in a mound of stone to top, for cor. of secs. 22, 23, 26, and 27, with brass cap mkd.
- T23S R32E
 S 22 | S 23
 S 27 | S 26
 1939
- Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, oak, juniper, and pinon.
 Undergrowth, oakbrush, manzanita, and cacti.
-
- West, on a random line bet. secs. 22 and 27.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.02 Intersect the cor. of secs. 21, 22, 27 and 28; an iron post, 2 ins. diam., 14 ins. above ground, firmly set, mkd. and witnessed as described in the official record.
- Thence,
 East, on true line bet. secs. 22 and 27.
 Over mountainous land;
 thru scattering timber and undergrowth.
 Asc. 85 ft. over SW. slope.
- 4.00 Ridge, bears NW. and SE.; desc. 205 ft. on SE. slope.

12.

Subdivision of a Portion of T. 23 S., R. 32 E.

| chains | |
|--------|--|
| 16.00 | Wash, 10 lks. wide, course SE.; asc. 83 ft. on SW. slope. |
| 19.50 | Spur, slopes S.; desc. 186 ft. on SE. slope. |
| 36.50 | Wash, 10 lks. wide, course S.10°W.; asc. 28 ft. on W. slope. |
| 40.01 | Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to bedrock, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap mkd. |
| | $\frac{1}{4} \frac{S \ 22}{S \ 27}$ |
| | 1939 from which |
| | An oak, 8 ins. diam., bears S.40°W., 135 lks. dist., mkd. $\frac{1}{4}$ S 27 BT. |
| | An oak, 14 ins. diam., bears N.73°W., 192 lks. dist., mkd. $\frac{1}{4}$ S 22 BT. |
| | Asc. 180 ft. on NW. slope. |
| 51.00 | Spur, slopes SW.; asc. 150 ft. on SW. slope. |
| 64.32 | 4-strand wire fence, bears N.60°E. and S.60°W. |
| 67.00 | Ridge, bears N.70°E. and SW.; desc. 90 ft. on E. slope. |
| 75.20 | Wash, 10 lks. wide, course S.; asc. 60 ft. on SW. slope. |
| 78.00 | Spur, slopes S.; desc. 21 ft. on SE. slope. |
| 80.02 | The cor. of secs. 22, 23, 26, and 27. |
| | Land, mountainous. Soil, rocky, 4th rate. Timber, oak, juniper, and pinon. Undergrowth, oakbrush, manzanita, and cacti. |
| | ----- |
| | East, on true line bet. secs. 23 and 26. |
| | Over mountainous land; thru scattering timber and undergrowth. |
| | Desc. 220 ft. on SE. slope. |
| 8.00 | Wash, 10 lks. wide, course S.20°E.; asc. 130 ft. on SW. slope. |
| 18.90 | Spur, slopes SE.; desc. 410 ft. on E. slope. |
| 39.30 | Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for witness $\frac{1}{4}$ sec. cor., with brass cap mkd. |
| | $\frac{1}{4} \frac{S \ 23 \text{ WC}}{S \ 26}$ |
| | 1939 from which |
| | An oak, 10 ins. diam., bears N.14°E., 72 lks. dist., mkd. WC $\frac{1}{4}$ S 23 BT. |
| | An oak, 6 ins. diam., bears S.13°E., 64 lks. dist., mkd. WC $\frac{1}{4}$ S 26 BT. |
| 40.00 | True point for $\frac{1}{4}$ sec. cor. falls in Baker wash, 30 lks. wide, course S.20°W. |

13.4299

Subdivision of a Portion of T. 23 S., R. 32 E.

chains

Asc. 390 ft. on W. slope.

68.30 Ridge, bears N. and SE.; desc. 50 ft. on NE. slope.

70.30 Intersect the Arizona-New Mexico state boundary.

Set an iron post, 3 ft. long; 2 ins. diam.; 18 ins. in the ground to bedrock, with a stone, 8x4x2 ins., mkd. X, deposited at the base, and in a mound of stone to top, for closing cor. of secs. 23 and 26, with brass cap mkd.

| | | |
|---------|--|-------|
| T23S | | |
| S 23 | | |
| CC S 26 | | N MEX |
| R32E | | |

1939

From point of intersection the 386 mile monument bears S.0°15'E., 36.87 chs. dist.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, oak and juniper.
Undergrowth, oakbrush and cacti.

At midpoint on the E. bdy. of sec. 26.

Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to bedrock, with a stone, 6x4x2 ins., mkd. X, deposited at the base, and in a mound of stone to top, for $\frac{1}{2}$ sec. cor. of sec. 26, with brass cap mkd.

 $\frac{1}{2}$ S 26|

1939

From this point the 386 mile monument on the state boundary bears N.0°15'W., 3.13 chs. dist.

From the cor. of secs. 22, 23, 26 and 27.

N.0°02'E., bet. secs. 22 and 23.

Over mountainous land;
thru. scattering timber and undergrowth.

Asc. 107 ft. on SE. slope.

8.00 Ridge, bears NE. and S.70°W.; desc. 160 ft. on NW. slope.

9.05 4-strand barbwire fence, bears NE. and S.70°W.

22.70 Wash, 10 lks. wide, course SW.; asc. 370 ft. on SE. slope.

39.60 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to bedrock, with a stone, 10x8x6 ins., mkd. X, deposited at the base, and in a mound of stone to top, for witness $\frac{1}{4}$ sec. cor., with brass cap mkd.

| | | |
|---------------|--|--|
| W C | | |
| $\frac{1}{4}$ | | |

S 22|S 23

1939

A small cave in bluff bears NE., 80 lks. dist.

Asc. 70 ft. over bluff slope.

Subdivision of a Portion of T. 23 S., R. 32 E.

chains

- 40.00 True point for $\frac{1}{4}$ sec. cor. falls on face of bluff.
- 41.40 Top of bluff, bears NE. and SW.; asc. 53 ft. on SE. slope.
- 45.70 Ridge, bears N.70°W. and E.; desc. 103 ft. on NE. slope.
- 54.30 Wash, 10 lks. wide, course E.; asc. 126 ft. on SE. slope.
- 68.50 Ridge, bears N.70°E. and S.70°W.; desc. 57 ft. on NW. slope.
- 77.30 Wire fence, bears NW. and SE.
- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground to bedrock, with a stone, 6x4x2 ins., mkd. X, deposited at the base, and in a mound of stone to top, for cor. of secs. 14,15,22, and 23, with brass cap mkd.

T23S R32E
 S 15 | S 14
 S 22 | S 23

1939

Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, oak and juniper.
 Undergrowth, oakbrush and cacti.

West, on a random line bet. secs. 15 and 22.

- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.30 A point 25 lks. S. of the cor. of secs. 15,16,21, and 22, hereinbefore described.

Thence,

S.89°49'E., on true line bet. secs. 15 and 22.

Over mountainous land;
thru scattering timber and undergrowth.

Desc. 83 ft. on SE. slope.

- 4.65 Wash, 10 lks. wide, course SW.; asc. 650 ft. on W. slope.
- 40.15 Set an iron post, 3 ft. long, .1 in. diam., 6 ins. in the ground to bedrock, with a stone, 6x2x2 ins., mkd. X, deposited at the base, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

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

1939

Asc. 100 ft. on W. slope.

- 44.70 Ridge, bears N. and S.; desc. 320 ft. on broken E. slope.
- 64.30 Wash, 10 lks. wide, course N.60°W.; asc. 366 ft. on NW. slope.
- 78.80 Wire fence, bears NE. and W.
- 80.30 The cor. of secs. 14,15,22, and 23.

Subdivision of a Portion of T. 23 S., R. 32 E.

chains

Land, mountainous.
Soil, rocky, 4th rate.
Timber, oak and juniper.
Undergrowth, oakbrush, manzanita, and cacti.

East, on true line bet. secs. 14 and 23.

Over mountainous land;
thru scattering timber and undergrowth.

Asc. 47 ft. on NW. slope.

- 2.00 Ridge, bears N. and S.; desc. 133 ft. on SE. slope.
6.60 Wire fence, bears NE. and SW.
14.00 Head of canyon, course SE.; asc. 56 ft. on SW. slope.
15.40 Spur, slopes S.; desc. 143 ft. on SE. slope.
27.10 Wash, 10 lks. wide, course SW.; asc. 115 ft. on W. slope.
30.50 Spur, slopes SE.; desc. 175 ft. on SE. slope.
36.20 Wash, 10 lks. wide, course S.; asc. 60 ft. on SW. slope.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to bedrock, with a stone, 14x10x6 ins., mkd. X, deposited at the base, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

$\frac{S\ 14}{S\ 23}$

1939

Asc. 20 ft. on SW. slope.

- 41.20 Spur, slopes S:20°E.; desc. 17 ft. on broken SE. slope.
51.00 Spur, slopes S.; desc. 270 ft. on E. slope.
60.10 Wash, 10 lks. wide, course SW.; asc. 320 ft. on NW. slope.
70.00 Intersect the Arizona-New Mexico boundary.

Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground to bedrock, with a stone, 6x4x2 ins., mkd. X, deposited at the base, and in a mound of stone to top, for closing cor. of secs. 14 and 23, with brass cap mkd.

T23S
CC $\frac{S\ 14}{S\ 23}$ N MEX
R32E

1939

From point of intersection the 384 mile monument bears N.0°07'W., 38.94 chs. dist.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, oak, juniper, and pinon.
Undergrowth, oakbrush, manzanita, and cacti.

At midpoint on the E. bdy. of sec. 23.

Subdivision of a Portion of T. 23 S., R. 32 E.

chains

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for $\frac{1}{4}$ sec. cor. of sec. 23, with brass cap mkd.

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

1939

from which

An oak, 6 ins. diam., bears S.65°W., 44 lks. dist., mkd. $\frac{1}{4}$ S 23 BT.

An oak, 10 ins. diam., bears N.15°W., 160 lks. dist., mkd. $\frac{1}{4}$ S 23 BT.

From this point the 385 mile monument on the Arizona-New Mexico boundary bears S.0°07'E., 1.90 chs. dist.

From the cor. of secs. 14,15,22 and 23.

N.0°02'E., on a random line bet. secs. 14 and 15.

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

80.40 A point 37 lks. E. of the cor. of secs. 10,11,14, and 15; an iron post, 2 ins. diam., 14 ins. above ground and mound of stone, firmly set, mkd. and witnessed as described in the official record.

Cor. is on a ridge, bears NW. and SE. Thence,

S.0°14'E., on true line bet. secs. 14 and 15.

Over mountainous land; thru scattering timber and undergrowth.

Desc. 183 ft. on SW. slope.

7.70 Wash, 20 lks. wide, course N.60°W.; asc. 370 ft. on NE. slope.

30.60 Spur, slopes NW.; desc. 34 ft. on SW. slope.

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

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

1939

from which

An oak, 6 ins. diam., bears N.68°W., 36 lks. dist., mkd. $\frac{1}{4}$ S 15 BT.

An oak, 6 ins. diam., bears S.65°E., 45 lks. dist., mkd. $\frac{1}{4}$ S 14 BT.

40.30 Head of canyon, course NW.; asc. 155 ft. on NW. slope.

45.60 Spur, slopes N.70°W.; desc. 160 ft. on SW. slope.

58.00 Wash, 10 lks. wide, course N.70°W.; asc. 560 ft. on broken NW. slope.

80.40 The cor. of secs. 14,15,22 and 23.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, oak, juniper, and madrone.

Undergrowth, oakbrush, manzanita, and cacti.

Subdivision of a Portion of T. 23 S., R. 32 E.

chains

From the cor. of secs. 10,11,14, and 15.

East, on true line bet. secs. 11 and 14.

Over mountainous land;
thru scattering timber and undergrowth.

Desc. 86 ft. on NE. slope.

7.10 Wash, 10 lks. wide, course N.60°W.; asc. 75 ft. on SW.
slope.

9.90 Rocky point, slopes SW.; asc. 480 ft. on SW. slope.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the
ground to bedrock, with a stone, 10x6x4 ins., mkd. X,
deposited at the base, and in a mound of stone to top, for
¼ sec. cor., with brass cap mkd.
$$\frac{S\ 11}{S\ 14}$$

1939

Asc. 10 ft. on SW. slope.

42.00 Ridge, bears N.20°W. and S.20°E.; desc. 164 ft. on NE.
slope.49.90 Wash, 10 lks. wide, course N.20°W.; asc. 90 ft. on NW.
slope.

55.00 Spur, slopes N.; desc. 170 ft. on E. slope.

70.10 Wash, 20 lks. wide, course N.40°W.

70.43 Intersect the Arizona-New Mexico boundary.

Set an iron post, 3 ft. long, 2 ins. diam., 16 ins. in the
ground to bedrock, and in a mound of stone to top, for
closing cor. of secs. 11 and 14, with brass cap mkd.
$$\begin{array}{c} T23S \\ \hline CC \frac{S\ 11}{S\ 14} \mid N\ MEX \\ \hline R32E \end{array}$$

1939

from which

An oak, 10 ins. diam., bears N.75°W., 98 lks.
dist., mkd. CC T 23 S R 32 E S 11 BT.An oak, 14 ins. diam., bears S.85°W., 62 lks.
dist., mkd. CC T 23 S R 32 E S 14 BT.From point of intersection the 383 mile monument on the
state boundary bears N.0°07'W., 39.89 chs. dist.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, oak and juniper.

Undergrowth, oakbrush, manzanita, and cacti.

At midpoint on the E. bdy. of sec. 14.Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the
ground to bedrock, with a stone, 10x6x4 ins., mkd. X,
deposited at the base, and in a mound of stone to top, for
¼ sec. cor. of sec. 14, with brass cap mkd.

Subdivision of a Portion of T. 23 S., R. 32 E.

chains

1/4 S 14

1939

From this point the 384 mile monument on the Arizona-New Mexico boundary bears S.0°07'E., 1.08 chs. dist.

From the cor. of secs. 2, 3, 10, and 11, hereinbefore described.

East; on true line bet. secs. 2 and 11.

Over mountainous land; thru scattering timber and undergrowth.

Desc. 400 ft. on SE. slope.

14.15 Wash, 10 lks. wide, course SE.; asc. 57 ft. on gentle W. slope.

38.85 Wash, 10 lks. wide, course SW.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 16 ins. in the ground to bedrock, and in a mound of stone to top, for 1/4 sec. cor., with brass cap mkd.

1/4 S 2
1/4 S 11

1939

from which

An oak, 12 ins. diam., bears N.60°E., 78 lks. dist., mkd. 1/4 S 2 BT.

An oak, 12 ins. diam., bears S.45°E., 96 lks. dist., mkd. 1/4 S 11 BT.

Asc. 220 ft. on SW. slope.

52.00 Spur, slopes SW.; desc. 150 ft. on E. slope.

58.25 Wash, 10 lks. wide, course S.; asc. 140 ft. on W. slope.

63.00 Spur, slopes S.; desc. 150 ft. on SE. slope.

70.56 Intersect the Arizona-New Mexico boundary.

Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground to bedrock, with a granite stone, 10x5x3 ins., mkd. X, deposited at the base, and in a mound of stone to top, for closing cor. of secs. 2 and 11, with brass cap mkd.

T23S
CC 1/4 S 2
1/4 S 11 N MEX
R32E

1939

from which

A cedar, 14 ins. diam., bears S.89°57'W., 5 lks. dist., mkd. CC T 23 S R 32 E S 11 BT.

No other bearing tree available.

From point of intersection the 382 mile monument on the state boundary bears N.0°14'W., 39.57 chs. dist.

Subdivision of a Portion of T. 23 S., R. 32 E.

chains

Land, mountainous.
Soil, rocky, 4th rate.
Timber, oak, juniper, and pinon.
Undergrowth, oakbrush, manzanita, and cacti.

At midpoint on the E. bdy. of sec. 11.

Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to bedrock, with a granite stone, 10x6x4 ins., mkd. X, deposited at the base, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor. of sec. 11, with brass cap mkd.

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

1939

From this point the 383 mile monument on the Arizona-New Mexico boundary bears S.0°14'E., 11 lks. dist.

At a point on the E. bdy. of sec. 2, 40.00 chs. from the closing cor. of secs. 2 and 11.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for $\frac{1}{4}$ sec. cor. of sec. 2, with brass cap mkd.

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

1939

raise a mound

of stone, 3 ft. base and 2 ft. high, west of cor.

From this point the 382 mile monument on the Arizona-New Mexico boundary bears S.0°05'E., 43 lks. dist.

From the cor. of secs. 2, 3, 10, and 11.

N.0°02'E., on true line bet. secs. 2 and 3.

Over mountainous land;
thru scattering timber and undergrowth.

Along E. slope of ridge; desc. 30 ft.

15.00 Saddle in ridge, bears E. and SW.; cross top of same.

17.00 Wire fence, bears W. and SE.

20.80 Leave ridge; desc. 420 ft. on NW. slope.

37.20 Wash, 10 lks. wide, course N.50°W.; asc. 40 ft. on SW. slope.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the ground to bedrock, with a stone, 10x6x4 ins., mkd. X, deposited at the base, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

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

1939

Asc. 154 ft. on SW. slope.

Subdivision of a Portion of T. 23 S., R. 32 E.

chains

- 49.00 Spur, slopes W.; desc. 110 ft. on N. slope.
- 54.80 Wash, 10 lks. wide, course SW.; asc. 410 ft. on SW. slope.
- 75.40 Spur, slopes W.; desc. 65 ft. on N. slope.
- 79.80 Intersect the S. bdy. of T.22 S., R.32 E.

Set an iron post, 3 ft. long, 2 ins. diam., over a six inch cross (X) mkd. on bedrock, and in a mound of stone to top, for closing cor. of secs. 2 and 3, with brass cap mkd.

T22S R32E
 S 35
 S 3 | S 2
 T23S R32E
 C C

1939

From point of intersection the cor. of secs. 2,3,34 and 35, Ts.22 and 23 S., R.32 E., bears west, 1.50 chs. dist.; an iron post, 3 ins. diam., set, mkd. and witnessed as described in the official record.

As this cor. now refers to secs. 34 and 35, only, of T.22 S., R.32 E., change marks on brass cap to read:

T22S
 R32E S 34 | S 35
 S 3
 T23S

1939
1912

From the same point the 1/4 sec. cor. of secs. 2 and 35 bears east, 38.58 chs. dist.; an iron post, 1 in. diam., set, mkd. and witnessed as described in the official record.

As this cor. now refers to sec. 35 only, of T.22 S., R.32 E., change the marks on brass cap to read:

1/4 S 35

1939
1912

Land, mountainous.
Soil, rocky, 4th rate.
Timber, oak, juniper, and pinon.
Undergrowth, oakbrush and cacti.

At a point on the N. bdy. of sec. 2, 40.00 chs. from the closing cor. of secs. 2 and 3.

Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to bedrock, with a stone, 5x5x3 ins., mkd. X, deposited at the base, and in a mound of stone to top, for 1/4 sec. cor. of sec. 2 only, with brass cap mkd.

1/4 S 2

1939

From this point the 1/4 sec. cor. of sec. 35 only, on S. bdy. of T.22 S., R.32 E., bears west, 1.42 chs. dist.

Subdivision of a Portion of T. 23 S., R. 32 E.

chains

From the same point the closing cor. of Ts. 22 and 23 S., R. 32 E., on the Arizona-New Mexico Boundary bears east, 30.28 chs. dist.; an iron post, 3 ins. diam., set, mkd. and witnessed as described in the field notes of the part of the S. Bdy. of T. 22 S., R. 32 E., resurveyed in 1933.

At a point on the N. bdy. of sec. 3, 40.00 chs. from the closing cor. of secs. 2 and 3.

Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to bedrock, with a stone, 5x4x3 ins., mkd. X, deposited at the base, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor. of sec. 3 only, with brass cap mkd.

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

1939

From this point the $\frac{1}{4}$ sec. cor. of secs. 3 and 34 bears west, 1.42 chs. dist.; an iron post, 1 in. diam., set, mkd. and witnessed as described in the field notes of the part of the S. bdy. of T. 22 S., R. 32 E., resurveyed in 1933.

As this cor. now refers to sec. 34, only, of T. 22 S., R. 32 E., change marks on the brass cap to read:

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

1939

1912

FINAL TEST OF YOUNG & SONS TRANSIT NO. 8570.

August 11, 1939, in camp near the center of sec. 10, of this township, at 10h 28m p.m., l.m.t., observe Polaris at eastern elongation, making two sights each with the telescope in direct and reversed positions, and place a tack at the mean point, on a peg driven firmly in the ground about 5 chs. N.

August 12, after sunrise, lay off the azimuth of Polaris, $1^{\circ}13'$, and make a meridian mark on a second peg to the west of the mean point in the line determined by the observation; verify the angle by repetition.

At 9h 0m a.p.m., app.t., set off $31^{\circ}27'N.$, on the lat. arc; $15^{\circ}07'N.$, on the decl. arc; and orient the instrument with the solar; the line of sight agrees with the meridian established by Polaris observation.

At app. noon, with lat. arc unchanged; observe the sun on the meridian; the resultant reading of the declination arc is $15^{\circ}05'N.$; which agrees with the computed declination of the sun.

At 3h 0m p.m., app.t., with lat. arc unchanged; set off $15^{\circ}03'N.$, on the decl. arc; and repeat the test of the solar; the line of sight agrees with the meridian established by Polaris observation.

As all of the observations taken during the usual hours of solar work agree within 1' of the true meridian, conclude that the instrument has been maintained in satisfactory adjustment.

GENERAL DESCRIPTION.

The land embraced in the portion of this township resurveyed and surveyed under this group lies on the west slope of Peloncillo mountain range, elevation about 5000 ft. above sea level. Drainage southerly via Bakers wash, and northern part drains west via Sycamore Creek.

The soil is rocky on slopes; in draw bottoms black sandy loam, 3d rate.

The timber is oak, sycamore, cottonwood, and cedar, with some pinon in the higher altitudes.

The undergrowth is oakbrush, cacti, bear grass, and other seasonal grasses.

The only settler is Amos Taylor who lives in sec. 35; has improvements consisting of houses, garages, barn, corrals, pipe lines, and wells.

Roads: a road into sec. 35 ends at Taylor's place; in sec. 10 a road ends from west.

No mining noted or heavy evidence of mineral.

The lands are fit for grazing.

There is permanent water at Amos Taylor's place; no permanent springs noted.

Secs. 2,3,10, and 11 are in National Forest Land.

The mean magnetic declination is 13°15'E.

24

BOOK 4299

CERTIFICATE OF SURVEYOR

I, Benjamin J. Kinsey, ^{Associate} ~~Cadastral Engineer~~, **General Land Office,** HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 5th day of October, 1938, received from the district cadastral engineer for Arizona, with assignment instructions dated November 28, 1938 I have resurveyed a portion of the Arizona-New Mexico boundary, resurveyed and surveyed a portion of the subdivisional lines, completing the subdivision of Township 23 South, Range 32 East, of the Gila and Salt River of the _____ Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Phoenix, Ariz.
April 28, 1943

Benjamin J. Kinsey
Associate Cadastral Engineer
formerly Cadastral Engineer
General Land Office.

CERTIFICATE OF APPROVAL

OFFICE OF SUPERVISOR OF SURVEYS,

Denver, Colorado, August 12, 1944.

The foregoing field notes of the resurvey of a portion of the Arizona-New Mexico boundary and resurvey and survey of a portion of the subdivisional lines of Township 23 South, Range 32 East, of the Gila and Salt River Meridian in the State of Arizona,

executed by Benjamin J. Kinsey, Cadastral Engineer, **General Land Office,** under special instructions dated October 5, 1938, and assignment instructions dated November 28, 1938, having been critically examined, and the necessary corrections made prior to their certification by the engineer, the said field notes, and the survey therein described, are hereby approved.

W. H. Horton
Supervisor of Surveys.

CERTIFICATE OF TRANSCRIPT

~~I certify that the foregoing transcript of the field notes of the above described surveys in _____, is a true copy of the original field notes on file in the public survey office.~~

Supervisor of Surveys.