

UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE

BOOK 4320

Book C

FIELD NOTES

OF THE

Resurvey of Part of the West Boundary of

Township 13 North, Range 3 West

and

Resurvey and Survey of Part of the Subdivisional Lines

of

Township 13 North, Range 4 West

4320

Of the Gila and Salt River Meridian,

In the State of Arizona

EXECUTED BY

Raymond F. Moss, Public Land Surveyor

General Land Office

Under special instructions dated July 13, 1939, which provided for the surveys included under Group No 228, Arizona, bearing the approval of the Commissioner of the General Land Office under date of August 23, 1939 and assignment instructions dated November 22, 1939.

Survey commenced May 30, 1940

Survey completed June 21, 1940

1A

BOOK 4320

INDEX DIAGRAM.

Township 13 N., Range 4 W.

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. T. 13 N., R.4 W.

4820

The surveys and resurveys herein described were executed with Gurley transit No. 371537, equipped with Smith solar attachment, constructed in accordance with the standard specifications of the General Land Office. The instrument was in good condition and having been placed in satisfactory adjustment prior to the beginning of the survey and tested and found free from appreciable error, was approved by the district cadastral engineer on November 22, 1939, conditional upon satisfactory field tests. The directions of the lines were determined by the solar transit method. The measurements were made with a Dietzgen steel tape, 5 chains in length, graduated every link for the first 100 links, and the remainder at intervals of 10 links. The tapes were tested by comparison with a Lufkin standard steel tape and found correct. All the measurements were made on the slope, the vertical angle determined for each interval with a clinometer in good adjustment, and the horizontal equivalents are entered in the field notes.

The data furnished with the special instructions gives the geographic position of camp in the NW $\frac{1}{4}$ NW $\frac{1}{4}$ of sec. 12, T.13 N., R.4 W., Gila and Salt River Meridian, Arizona, as follows:

Latitude 34°29'11"N., longitude 112°38'W.

May 30, 1940, at camp with Gurley solar transit No. 371537 at 6h 48m p.m., l.m.t., or 7h 18.5m p.m. by my watch which reads correct 105th meridional time as checked by comparison with Western Union Telegraph Co. clock, make an hour angle observation on Polaris west of the meridian, making eight observations, four each with the telescope in direct and reversed positions, reading the deflection angles from the west edge of a scrub oak tree on the horizon about 2½ miles northeasterly, west to Polaris.

Mean watch time of observations, p.m.	7h 18m 30s
Watch fast of l.m.t.	30m 30s.
Mean horizontal angle from Polaris	.
E. to reference point	20° 07.7'
Azimuth of Polaris	0° 42.5'

True bearing of reference point N.19° 25.2' E.

May 31, 1940, at same station, at 9h 00m a.m., app.t., set off 34°29'N. on the latitude arc; 21°58'N. on the declination arc; and determine a meridian with the solar, which agrees with the true meridian.

At app. noon, with the latitude arc unchanged, observe the sun on the meridian and obtain a reading of 21°59'N. on the declination arc which agrees with the computed declination of the sun.

At 3h 00m p.m., app.t., with the latitude arc unchanged set off 22°00'N. on the declination arc and determine a meridian with the solar which agrees with the true meridian.

As all of the solar observations made during the usual hours of solar work come within 1'30" of the true meridian, conclude that this instrument is in satisfactory state of adjustment.

Resurvey of Part of the W. Bdy. of T.13 N., R.3 W.

chains

Reestablishment of a survey executed by B.J.Kinsey, surveyor, in 1931, establishing corners with reference to areas on W. side of the line only.

The corner of secs. 13 and 24, T.13 N., R.4 W., is evidenced by an iron post, 2 ins. diam., set, marked and witnessed as described in the official record.

Thence,

North, on true line along the W. bdy. of sec. 31.

Over mountainous land, through scattering timber and dense undergrowth.

Ascend slight SE. slope.

1.50 The $\frac{1}{4}$ sec. cor. of sec. 31 as evidenced by an iron post, 1 in. diam., set, marked and witnessed as described in the official record.

Thence,

N. $0^{\circ}09'$ W., on true line along the W. bdy. of sec. 31.

Ascend 120 ft. over a SE. slope.

22.44 Spur, slopes S. 75° W.; desc. 24 ft. over a NW. slope.

27.54 Head of a ravine, course S. 75° W.; asc. 60 ft. over a SW. slope.

31.44 Spur, slopes S. 20° E.; continue slight ascent over a broken SE. slope.

38.50 At this point, which is 40.00 chs. in lat. from the cor. of secs. 13 and 24 of R.4 W.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground at $\frac{1}{4}$ sec. cor. of sec. 13 only, with brass cap marked

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

1940

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

39.94 The cor. of secs. 30 and 31 only, as evidenced by an iron post, 2 ins. diam., set, marked and witnessed as described in the official record.

Additionally mark brass cap to read as follows:

T13N.	T13N	S	30
R4W	S	S	31
S 13	R3W		

1940

Land, mountainous.

Soil, rocky, 4th rate.

Timber, pinion and juniper; undergrowth, oak brush and cactus.

Resurvey of Part of the W. Bdy. of T.13 N., R.3 W.

chains

N.0°01'W., on true line along W. bdy. of sec. 30.

Over mountainous land, through scattering timber and dense undergrowth.

Ascend 54 ft. over a SE. slope.

- 8.05 Spur, slopes SW.; thence along a broken W. slope.
- 25.75 Spur, slopes S. 80° W.; desc. 21 ft. over a N. slope.
- 27.35 Short ravine, course NW.; asc. 21 ft. over a S. slope.
- 29.25 Point of spur, from S. 60° E.; desc. 56 ft. along a W. slope.
- 32.35 Ravine, course S.80°W.; asc. 46 ft. over a rolling W. slope.
- 38.02 At this point, which is 87.16 chs. E. of the NW. cor. of sec. 13.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground at the cor. of secs. 12 and 13 only of R.4 W., with brass cap marked

T13N	T13N
S 12	R3W
S 13	S 30
R4W	

1940

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

- 39.96 The 1/4 sec. cor. of sec. 30, as evidenced by an iron post, 1 in. diam., set, marked and witnessed as described in the official record.

Thence,

N.0°02'E., on true line along the W. bdy. of sec. 30.

Ascend 404 ft. over a SE. slope.

- 19.50 Spur, slopes N.75°W.; desc. 4 ft. over a NW. slope.
- 25.70 Spur, slopes NW.; desc. 124 ft. over a NW. slope.
- 32.10 Head of a ravine, course N.70°W.; asc. 114 ft. over a SE. slope.
- 38.06 At this point, which is 40.00 chs. in lat. from the cor. of secs. 12 and 13 of R.4 W.

Set an iron post; 3 ft. long, 1 in. diam., 28 ins. in the ground, at 1/4 sec. cor. of sec. 12 only, with brass cap marked.

1/4 S 12 |

1940

- 39.90 The cor. of secs. 19 and 30 only, as evidenced by an iron post, 2 ins. diam.; set, marked and witnessed as described in the official record.

Additionally mark brass cap to read as follows:

Resurvey of Part of the W. bdy. of T.13N., R.3 W.

chains

T13N	T13N
R4W	S 19
S12	S 30
	R3W

1940

Land, mountainous.

Soil, rocky, 4th rate.

Timber, pinion and juniper; undergrowth, oakbrush and cactus.

N.0°15'W., on true line along the W. bdy. of sec. 19.

Over mountainous land, through scattering timber and dense undergrowth.

Ascend 16 ft. over a SE. slope.

1.00 Spur, slopes S.70°W.; desc. 141 ft. over a NW. slope.

11.45 Spur, slopes NW.; desc. 262 ft. over a NE. slope.

30.03 Unimproved road, in bottom of wash, course NW. from SE.; asc. 20 ft. over a broken SW. slope.

38.16 At this point, which is 80.00 chs. in lat. from the cor. of secs. 12 and 13 of R.4 W.

Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground to bedrock, with a stone 5x4x3 ins. marked + deposited at base and in a mound of stone to top, at cor. of secs. 1 and 12 only of R.4 W., with brass cap marked

T13N	T13N
S 1	R3W
S 12	S 19
R4W	

1940

40.03 The $\frac{1}{4}$ sec. cor. of sec. 19 only, as evidenced by an iron post, 1 in. diam.; set, marked and witnessed as described in the official record.

Thence,

N.0°14'E., on true line along the W. bdy. of sec. 19.

Ascend 301 ft. over a broken SW. slope.

25.30 Spur, slopes west; desc. 23 ft. over a NW. slope.

27.90 Head of a ravine, course S.60°W.; asc. 11 ft. over a SW. slope.

30.30 Spur, slopes N.60°W.; desc. 124 ft. over a NW. slope.

34.45 Intersect the S. side line (3-4) of the Arizona patented lode mining claim, Min. Sur. No. 3802 at 39 lks. N.78°14'E. of cor. No. 4 thereof. Across patented mineral land.

35.98 Ravine, course NW.; asc. 8 ft. over a SW. slope.

37.60 Spur, slopes NW.; desc. 51 ft. along a W. slope.

38.13 At this point, which is 40.00 chs. in lat. from the cor. of secs. 1 and 12 only, of R.4 W.

Resurvey of Part of the W. bdy. of T.13 N., R.3 W.

chains

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, at $\frac{1}{4}$ sec. cor. of sec. 1 only of R.4 W., with brass cap marked

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

1940

39.98

The cor. of secs. 18 and 19, as evidenced by an iron post, 2 ins. diam., set, marked and witnessed as described in the official record.

Additionally mark brass cap to read as follows:

T13N	T13N
R4W	S 18
S 1	S 19
	R3W

1940

Land, mountainous.

Soil, rocky, 4th rate.

Timber, pinion and juniper; undergrowth, oakbrush and cactus.

North, on true line along the W. bdy. of sec. 18.

Over mountainous land, through scattering timber and dense undergrowth.

Descend 120 ft. over a NW. slope.

Across patented mineral land.

4.50

Wash, course W.; ascend 167 ft. over a S. slope.

5.41

Improved road, bears S. $83\frac{1}{2}^\circ$ E. and N. 78° W.

11.21

Fence, bears S. $63\frac{1}{2}^\circ$ E. and N. $63\frac{1}{2}^\circ$ W.

23.00

Low, flat spur, slopes SE.; desc. 41 ft. along a broken E. slope.

27.50

Ravine, course SE.; asc. 236 ft. over a SE. slope.

37.56

The cor. of Ts. 13 and 14 N., R.4 W., as evidenced by an iron post, 3 ins. diam., set, marked and witnessed as described in the official record.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, pinion and juniper; undergrowth, oakbrush and cactus.

Resurvey of Part of the Subdivision of T.13 N., R.4 W.

chains

Preliminary to the resurvey of the lines that limit the unsurveyed area of T.13 N., R.4 W., the lines were re-traced and thorough investigations of survey conditions elsewhere in the township revealed no evidence of any of the original corners. Numerous settlers were contacted but none could provide evidence regarding corners of the original survey. The restoration of the corners on these lines were effected through resort to the broken boundary method. Lost corners were reestablished at proportionate positions based on the record of the original survey. The retracement data were thoroughly verified and to gain simplification, only the true line field notes are recorded herein.

 Reestablishment of part of the lines of a survey executed by S.W.Foreman, Deputy Surveyor in 1872.

From the cor. of secs. 13 and 24 only, on the E. bdy. of the Tp.

S.89°53'W., bet. secs. 13 and 24.

Over mountainous land, through scattering timber and dense undergrowth.

Ascend 52 ft. over a SE. slope.

- 8.95 Spur, slopes SW.; desc. 55 ft. over a W. slope.
- 11.15 Old road, bears NW. and SE.
- 12.85 Head of a ravine, course SW.
- 20.39 U.S.Forest Service fence, bears N.0°45'W. and S.0°45'E.
- 22.75 Ravine, course S.60°W.; asc. 33 ft. over a SE. slope.
- 30.00 Spur, slopes S.60°W.; descend over a NW. slope.
- 41.825 Proportional point

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

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

1940

raise a mound of stone, 3 ft. base, 2½ ft. high, N. of cor.

Descend over a NW. slope.

- 44.35 Ravine, course S.60°W., asc. 32 ft. over a SE. slope.
- 55.85 Spur, slopes S.60°W., desc. over a NW. slope.
- 83.65 Proportional point

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground at cor. of secs. 13, 14, 23 and 24, with brass cap marked

T13N R4W
 $\frac{S\ 14\ | S\ 13}{S\ 23\ | S\ 24}$

1940

Resurvey of Part of the Subdivision of T.13 N., R.4 W.

chains	
	raise a mound of stone, 3 ft. base, 2½ ft. high, W. of cor.
	Land, mountainous. Soil, rocky, 4th rate. Timber, pinion and juniper; undergrowth, oakbrush and cactus.

	N.2°37'W., bet. secs. 13 and 14.
	Over rolling land, through scattering timber and dense undergrowth.
	Desc. 8 ft. over a NW. slope.
3.50	Center of broad, sandy wash, course S.60°W.; ascend 46 ft. over a S. slope.
11.00	Spur, slopes W.; desc. 23 ft. over a NW. slope.
16.00	Ravine, course S.25°W.; asc. 42 ft. over a S. slope.
19.90	Spur, slopes W.; desc. 75 ft. over a broken N. slope.
28.30	Ravine, course W.; asc. 8 ft. over a SW. slope.
32.80	Point of a spur, from E.; desc. 4 ft. over a NW. slope.
39.60	Ravine, course SW.; asc. 51 ft. over a SE. slope.
39.885	Proportional point
	Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground at ¼ sec. cor., with brass cap marked
	↓
	.S 14 S.13
	1940
	raise a mound of stone, 3 ft. base, 2½ ft. high, W. of cor.
	Ascend 9 ft. over a SE. slope.
40.50	Spur, slopes S.75°W.; desc. 33 ft. over a NW. slope.
42.50	Ravine, course S.75°W.; asc. 25 ft. over a S. slope.
44.00	Spur, slopes S.60°W.; desc. 57 ft. over a N. slope.
50.20	Ravine, course W.; asc. 40 ft. over a broken SW. slope.
59.40	Point of a spur, from N.60°E.; desc. 30 ft. over a NW. slope.
61.30	Ravine, course SW.; asc. 59 ft. over a S. slope.
64.40	Spur, slopes SW.; desc. 34 ft. over a NW. slope.
66.30	Ravine, course S.60°W.; asc. 26 ft. over a S. slope.
68.10	Spur, slopes N.75°W.; desc. 40 ft. over a NW. slope.
73.00	Wash, 20 lks. wide, course S.60°W.; thence across flat.
77.33	Road, bears SW. and NE.
79.77	Proportional point

8.

Resurvey of Part of the Subdivision of T.13 N., R.4 W.

chains	<p>Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, at cor. of secs. 13 and 14 only, with brass cap marked</p> <div style="text-align: center;"> $\begin{array}{r} S\ 11 \\ \hline S\ 14\ S\ 13 \\ T13N\ R4W \end{array}$ </div> <p style="text-align: center;">1940</p> <p style="text-align: right;">from which</p> <p>A hackberry, 8 ins. diam., bears S.75½°E., 270 lks. dist., marked T 13 N R 4 W S 13 B T.</p> <p>A hackberry, 6 ins. diam., bears S.64½°W., 137 lks. dist., marked T 13 N R 4 W S 14 B T.</p> <p>Raise a mound of stone, 3 ft. base, 2½ ft. high, S. of cor.</p> <p>Land, rolling. Soil, rocky, 4th rate. Timber, pinion, juniper, and hackberry; undergrowth, oak brush and cactus.</p> <hr style="border-top: 1px dashed black;"/> <p>S.89°47'W., bet. secs. 11 and 14. Over mountainous land, through scattering timber and undergrowth. Descend gradual NW. slope.</p> <p>3.60 Center of wash, 80 lks. wide, course S.20°W.</p> <p>13.90 Leave flat, bears N.30°E. and SW.; ascend 179 ft. over a rolling SE. slope.</p> <p>28.90 Spur, slopes S.30°W.; desc. 147 ft. over a NW. slope.</p> <p>38.50 Ravine, course S.60°W.; asc. 127 ft. over a SE. slope.</p> <p>41.94 Proportional point</p> <p>Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground at ¼ sec. cor. of secs. 11 and 14, with brass cap marked</p> <div style="text-align: center;"> $\frac{1}{4} \frac{S\ 11}{S\ 14}$ </div> <p style="text-align: center;">1940</p> <p>Ascend over a SE. slope.</p> <p>52.99 Spur, slopes SW.; desc. 221 ft. over a broken NW. slope.</p> <p>66.60 Wash, 30 lks. wide, course S.30°W.; asc. 46 ft. over a SE. slope.</p> <p>76.60 Short ravine, course S.15°E.; asc. 125 ft. over a SE. slope.</p> <p>78.29 Fence, bears S.0°05'E. and N.0°05'W.</p> <p>82.49 Spur, slopes SW.; desc. 22 ft. over a NW. slope.</p> <p>83.88 Proportional point</p> <p>Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, at cor. of secs. 10, 11, 14 and 15, with brass cap marked</p>
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Resurvey of Part of the Subdivision of T.13N., R.4 W.

Chains

T13N R4W	
S10	S11
S15	S14

1940

raise a mound
of stone, 3 ft. base, 2½ ft. high, W. of cor.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, pinion, ash and hackberry; undergrowth, oak brush and cactus.

N. 2° 37' W., along the E. bdy. of sec. 10.

Over mountainous land, through scattering timber and undergrowth.

Descend 27 ft. over a NW. slope.

7.55 Head of a ravine, course S. 30° W.; asc. 121 ft. over a S. slope.

14.37 Spur, slopes SW.; desc. 133 ft. over a NW. slope.

23.55 Ravine, course S. 60° W.; asc. 77 ft. over a S. slope.

27.75 Spur, slopes S. 75° W.; desc. 136 ft. over a N. slope.

34.45 Ravine, course W.; asc. 71 ft. over a SW. slope.

38.27 Point of a spur, from E.; desc. 20 ft. over a NW. slope.

39.885 Proportional point

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground at ¼ sec. cor., with brass cap marked

¼

S10 | S11

1940.

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

Descend 58 ft. over a NW. slope.

45.25 Ravine, course S. 60° W.; asc. 192 ft. over a S. slope.

56.00 Spur, slopes West; desc. 171 ft. over a N. slope.

66.55 Ravine, course W.; asc. 83 ft. over a S. slope.

70.50 Spur, slopes W.; desc. 147 ft. over a N. slope.

77.95 Wash, 30 lks. wide, course W.; asc. 18 ft. over a S. slope.

78.47 Corral fence, bears NE. and SW.; thence through corral.

79.19 Corral fence, bears NW. and SE.; leave corral.

79.77 Proportional point

Set an iron post, 3 ft. long; 2 ins. diam., 28 ins. in the ground, at cor. of secs. 3 and 10 only, with brass cap marked

Resurvey of Part of the Subdivision of T.13 N., R.4 W.

chains

T13N	
S 3	S 11
S 10	
R4W	

1940

from which

NE. corner of a cabin, bears S.18°25'W., 2.80 chs. dist.

NE. corner of a shed, bears S. 53°08'W., 72 lks. dist.

Raise a mound of stone, 3 ft. base, 2½ ft. high, W. of cor.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, pinion, ash and hackberry; undergrowth, oak brush and cactus.

N. 2°27'W., along the E. bdy. of sec. 3.

Over mountainous land, through dense undergrowth.

0.58 At this point, West of the corner of secs. 1,2,11 and 12, hereinafter described.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, at cor. of secs. 2 and 11 only, with brass cap marked

T13N	R4W
S 3	S 2
	S 11

1940

raise a mound
of stone, 3 ft. base, 2½ ft. high, E. of cor.

Ascend 183 ft. over a SE. slope.

10.85 Spur, slopes S.75°W.

16.25 Spur, slopes N.60°W.; desc. 152 ft, over a N. slope.

24.55 Ravine, course N.75°W.; thence across point of a flat spur.

26.55 Ravine, course W.; asc. 112 ft. over a S. slope.

32.85 Spur, slopes W.; desc. 155 ft. over a N. slope.

39.89 Proportional point.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground at ¼ sec. cor. of secs. 2 and 3, with brass cap marked

S 3	S 2
-----	-----

1940

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

Descend 10 ft. over a N. slope.

40.05 Ravine, course N.75°W.; asc. 107 ft. over a SW. slope.

Resurvey of Part of the Subdivision of T.13 N., R.4 W.

chains

- 45.85 Spur, slopes N.80°W.; desc. 113 ft. over a NW. slope..
- 52.75 Ravine, course W.; asc. 96 ft. over a S. slope.
- 59.00 Spur, slopes S.80°W.; desc. 156 ft. over a N. slope. .
- 66.15 Ravine, course N.75°W.; asc. 132 ft. over a SW. slope.
- 71.65 Spur, slopes N.85°W.; desc. 99 ft. over a NE. slope.
- 80.07 The cor. of secs. 2,3,34 and 35, as evidenced by an iron post, 3 ins. diam., set, marked and witnessed as described in the official record.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, none; undergrowth, oak brush and cactus.

Survey of Part of the Subdivision of T.13 N., R.4 W.

From the cor. of secs. 12 and 13 only, on the E. bdy. of the Tp.

West, along the N. bdy. of sec. 13.

Over rolling land, through scattering timber and dense undergrowth.

Descend 12 ft. over a NW. slope.

- 0.50 Ravine, course S.30°W.; continue descent over broken SW. slope.
- 2.50 Ravine, course S.30°W.; asc. 73 ft. over a broken SE. slope.
- 18.30 Spur, slopes S.30°W.; desc. 133 ft. over a broken SW. slope.
- 21.10 U.S. Forest Service fence, bears S.0°39'E. and N.0°39'W.
- 30.00 Head of a ravine, course S.30°W.; thence along a S. slope.
- 35.00 Spur, slopes SW.; desc. 34 ft. over a broken W. slope.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, at $\frac{1}{4}$ sec. cor. of sec. 12 only, with brass cap marked
- $\frac{1}{4}$ S 12
- 1940
- raise a mound
of stone, 3 ft. base, 2 $\frac{1}{2}$ ft. high, N. of cor.
- 47.16 Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground at $\frac{1}{4}$ sec. cor. of sec. 13 only, with brass cap marked
- $\frac{1}{4}$ S 13
- 1940
- raise a mound
of stone, 3 ft. base, 2 $\frac{1}{2}$ ft. high, S. of cor.
- Descend 193 ft. over a broken W. slope.

12.

Survey of Part of the Subdivision of T.13 N., R.4 W.

chains	
60.40	Junction of ravines from S.80°E., and NE.; course S.60°W.
63.90	Point of a spur from NE.; desc. 23 ft. over SW. slope.
68.10	Recross ravine, course N. 60°W.; asc. 17 ft. over a NE. slope.
71.10	Point of a spur, from S. 60°E.; desc. 74 ft. over a NW. slope.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, at cor. of secs. 11 and 12 only, with brass cap marked
	T13N R4W S 11 S 12 S 13
	1940
	from which
	A tree, bears N.34½°W., 374 lks. dist., marked T 13 N R 4 W S 11 B T.
	Raise a mound of stone, 3 ft. base, 2½ ft. high, N. of cor.
	Descend 25 ft. over a NW. slope.
85.18	Unimproved road, bears N. and S.
87.16	The cor. of secs. 13 and 14 only.
	Land, rolling. Soil, 4th rate. Timber, pinion, juniper and hackberry; undergrowth, oak brush and cactus.

	From the cor. of secs. 11 and 12 only.
	North, bet. secs. 11 and 12.
	Across wash bottom.
1.30	Wash, 10 lks. wide, course W.
8.70	Wash, 10 lks. wide, course S.75°W.; asc. 25 ft. over wash bottom land.
12.27	Road, bears NE. and SW.
25.30	Wash, 1 chain wide, course S.30°W.; asc. 32 ft. across wash bottom land.
34.70	Leave bottom land, bears S.60°W. and N.60°E.; asc. 58 ft. over a SE. slope.
38.40	Spur, slopes SW.; thence over rolling land.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground at ¼ sec. cor., with brass cap marked
	¼
	S 11 S 12
	1940

Survey of Part of the Subdivision of T.13 N., R.4 W.

chains	<p style="text-align: right;">raise a mound</p> <p>of stone, 3 ft. base, 2½ ft. high, W. of cor.</p> <p>Continue over rolling land.</p>
41.10	Head of a short ravine, course S.40°E.; asc. 47 ft. over broken SE. slope.
68.20	Short ravine, course S.75°E.; asc. 44 ft. over a SW. slope.
73.70	Spur, slopes S:60°E.; desc. 22 ft. over a NE. slope.
76.50	Head of ravine, course S.60°E.; asc. 29 ft. over a broken SE. slope.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, at cor. of secs. 1, 2, 11 and 12, with brass cap marked
	T13N R4W S 2 S 1 --- S11 S12
	1940
	<p style="text-align: right;">raise a mound</p> <p>of stone, 3 ft. base, 2½ ft. high, W. of cor.</p> <p>Land, rolling.</p> <p>Soil, in wash bottom, sandy, 2nd rate; on slopes rocky, 4th rate.</p> <p>Timber, hackberry, juniper and walnut; undergrowth, oak brush, willow and cactus.</p>

	From the corner of secs. 1 and 12 only on the E. bdy. of the Tp.
	N.89°58'W., bet. secs. 1 and 12.
	Over mountainous land, through scattering timber and undergrowth.
	Descend 98 ft. over a broken SW. slope.
17.02	Road in bottom of wash, course N.60°W. from S.60°E.; desc. 31 ft. over wash bottom, through dense undergrowth.
18.39	U.S. Forest Service fence, bears N.0°28'E. and S.0°28'W.
23.56	Recross road in bottom of wash, course S.60°W. from N.60°E.; asc. 49 ft. over a broken SW. slope.
39.91	Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, at ¼ sec. cor., with brass cap marked
	¼ $\frac{S 1}{S 12}$
	1940
	<p style="text-align: right;">raise a mound</p> <p>of stone, 3 ft. base, 2½ ft. high, N. of cor.</p> <p>Ascend 64 ft. over a broken SW. slope.</p>
57.30	Point of spur, from N.60°E.; desc. 39 ft. over NW. slope.
61.80	A point in center of wash, 80 lks. wide, course SW. Junction of a wash 30 lks. wide, from the E., bears SW., 50 lks. dist. NE. cor. of a miner's cabin, bears S.18¼°W.

Survey of Part of the Subdivision of T.13 N., R.4 W.

chains	1.19 chs. dist. NW. corner of another cabin bears S:12 $\frac{3}{4}$ ° W., 2.80 chs. dist.; asc. 49 ft. over a SE. slope.
66.60	Spur, slopes S.15°W.; desc. 40 ft. over a NW. slope.
69.45	Road in bottom of a wash, 25 lks. wide; course S., from N.; asc. 42 ft. over a broken SE. slope.
79.82	The cor. of secs. 1, 2, 11 and 12. Land, mountainous, Soil, rocky, 4th rate. Timber, pinion and hackberry; undergrowth, oak brush. ----- West, bet: secs. 2 and 11. Over mountainous land, through dense undergrowth. Ascend 81 ft. over a broken SE. slope.
4.90	Low spur, slopes S.
8.40	Spur, slopes S.60°W.; desc. 99 ft. over a NW. slope.
23.80	Head of a ravine, course N.; asc. 46 ft. over a NE. slope.
28.70	Spur, slopes N.75°W.; desc. 37 ft. along a S. slope.
54.70	Set an iron post, 3 ft. long, 1 in. diam.; 28 ins. in the ground, at $\frac{1}{4}$ sec. cor. with brass cap marked $\frac{1}{4} \frac{S 2}{S 11}$ 1940 raise a mound of stone, 3 ft. base, 2 $\frac{1}{2}$ ft. high, N. of cor. Continue along S. slope.
55.60	Spur, slopes S.60°W.; desc. 280 ft. over a broken NW. slope.
62.30	Head of a ravine, course NW.
75.89	A fence cor., from which fences extend southwesterly and N.7°07'E., bears N.7°07'E., 3.35 chs. dist.
84.30	Fence, bears northeasterly, and southwesterly, 56 lks. to a fence corner, from which fences extend northeasterly and S.0°30'E.
87.20	Wash, 20 lks. wide, course S.60°E.; asc. 14 ft. along a S. slope.
94.70	The cor. of secs. 2 and 11 only. Land, mountainous. Soil, rocky, 4th rate. Timber, scattering pinion; undergrowth, oak brush. ----- From the cor. of secs. 1, 2, 11 and 12. N.0°02'W., bet: secs. 1 and 2. Over mountainous land, through scattering timber and undergrowth.

Survey of Part of the Subdivision of T.13 N., R.4 W.

chains	
	Ascend 85 ft. over a broken SE. slope.
6.60	Spur, slopes S.60°W.; desc. 106 ft. over a N. slope.
12.90	Ravine, course W.; asc. 131 ft. over a S. slope.
19.90	Road, on top of a spur which slopes W. from E.; desc. 153 ft. over a N. slope.
30.50	Ravine, course N.60°W.; asc. 122 ft. over a SW. slope.
33.10	Road, bears N.60°W. and S.60°E.
38.30	Spur, slopes N.60°W.; desc. 15 ft. over a NE. slope.
39.09	At this point, which is 40.30 chs. in lat. from the corner of secs. 1, 2, 35 and 36 on the N. bdy. of the Tp. Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, at $\frac{1}{4}$ sec. cor. of sec. 2 only, with brass cap marked $\frac{1}{4}$ S 2 1940 from which A pinyon, bears S.59 $\frac{1}{2}$ °W., 70 lks. dist., marked $\frac{1}{4}$ S 2 B T. A pinyon, bears N.31 $\frac{1}{2}$ °W., 169 lks. dist., marked $\frac{1}{4}$ S 2 B T. Raise a mound of stone, 3 ft. base, 2 $\frac{1}{2}$ ft. high, W. of cor.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, at $\frac{1}{4}$ sec. cor. of sec. 1 only, with brass cap marked $\frac{1}{4}$ S 1 1940 raise a mound of stone, 3 ft. base, 2 $\frac{1}{2}$ ft. high, E. of cor. Descend 167 ft. over a NE. slope.
53.70	Ravine, course N. from S.30°W.; desc. 31 ft. along bottom of ravine.
62.20	Leave ravine, course N.60°W. at a junction of ravines from S.60°E. and S.; asc. 103 ft. over a SW. slope.
71.10	Spur, slopes W.; desc. 109 ft. over a NW. slope.
79.39	The cor. of secs. 1, 2, 35 and 36 on the N. bdy. of the Tp. as evidenced by an iron post, 3 ins. diam., set, marked and witnessed as described in the official record. Land, mountainous. Soil, rocky, 4th rate. Timber, pinion; undergrowth, oak brush. -----

Final Field Test of Instrument.

June 22, 1940; at camp in NW $\frac{1}{4}$ NW $\frac{1}{4}$ of sec. 12, T.13 N., R.4 W., G. & S.R. Meridian, Arizona, on same meridian as described on page 1, hereof, examine the adjustments of the transit and find no errors; then to test the workings of the solar apparatus proceed as follows:

At 9h 00m a.m., app.t., set off 34°29'N. on the latitude arc, 23°26'N. on decl. arc and determine a meridian with the solar which agrees with the true meridian.

At app. noon, with latitude arc unchanged observe the sun on the meridian; the resultant reading of the declination arc is 23°26'N., which agrees with the computed declination of the sun.

At 3h 00m p.m., app.t., with latitude arc unchanged, set off 23°26'N. on the declination arc and determine a meridian with the solar which agrees with the true meridian.

As all of the observations taken during the usual hours of solar work agree within 1' of the true meridian, conclude that the adjustments of the instrument have been maintained during the surveys described in the foregoing field notes.

General Description.

Land; the area surveyed consists of the rolling foothills of the Bradshaw range of mountains the divide of which lies about 5 miles northeasterly. The slope is towards the southwest and west into Skull Valley about three miles distant. The drainage is generally southwesterly into Skull Valley wash. The elevation ranges from 4500 ft. to 5500 ft., the higher lands being along the east boundary of the area.

Soil; on the slopes a rocky 3rd and 4th rate, while in the bottoms of the larger draws, a sandy loam of 3rd rate quality was noted.

Water; no living water was found.

Settlement; no settlers reside in the area surveyed; there is an abandoned cabin in the NW $\frac{1}{4}$ of sec. 12 and another with adjacent goat sheds and pens in the NE $\frac{1}{4}$ of sec. 2.

Mineral; no evidence was noted of mining activities tho mineralization is evident to a medium degree.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE

FIELD ASSISTANTS

NAMES	CAPACITY
Clifford Cline	Principal Assistant
Amos R. Roten	Chainman
Roy Mashburn	Flagman
Clifford Jones	Moundsman
William A. Peace	Axeman
Harold Knape	Truckdriver

CERTIFICATE OF SURVEYOR

BOOK 4320

I, Raymond F. Moss, Assistant Cadastral Engineer, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 13th day of July, 1939, received from the district cadastral engineer for Arizona, with assignment instructions dated November 22, 1939, I have, ^{re} surveyed part of the West Boundary of Township 13 North, Range 3 West, and resurveyed and surveyed part of the Subdivisional Lines of Township 13 North, Range 4 West

of the Gila & Salt River 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 **resurvey and** 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, Arizona
January 31, 1942.

Raymond F. Moss
Assistant Cadastral Engineer
(formerly Public Land Surveyor)
General Land Office.

CERTIFICATE OF APPROVAL

OFFICE OF SUPERVISOR OF SURVEYS,
Denver, Colorado, June 13, 1945.

The foregoing field notes of the ^{re} survey of part of the West Boundary of Township 13 North, Range 3 West, and the resurvey and survey of part of the Subdivisional Lines of Township 13 North, Range 4 West of the Gila and Salt River Meridian, in the State of Arizona executed by Raymond F. Moss, Public Land Surveyor, under special instructions dated July 13, 1939, and assignment instructions dated November 22, 1939, having been critically examined, and the necessary corrections made prior to their certification by the engineer, the said field notes, and the survey **and resurvey** 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.~~