

(1)

4-879
(April 1933)

Book B.

BOOK 4166

FIELD NOTES

of the

Resurvey of a portion of the South boundary

and

Resurvey and survey of

a portion of the subdivisional lines,

Completing the subdivision of

Township 7 North, Range 1 East,

Of the Gila and Salt River Meridian,

In the State of Arizona

EXECUTED BY

Roger F. Wilson, Surveyor,
General Land Office

Under special instructions dated August 25, 1936, which provided for the surveys included under Group No. 217, bearing the approval of the Commissioner of the General Land Office under date of October 9, 1936 and assignment instructions dated April 14, 1937.

Survey commenced May 1, 1937

Survey completed May 7, 1937

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10
10A
BOOK 4166

INDEX DIAGRAM.

Township 7 North, Range 1 East, G. & S.R.Mer.

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Township 7 North, Range 1 East.

chains

The surveys and resurveys herein described were executed with a light-mountain solar transit made by Buff & Buff Mfg. Co., Serial No. 23829. This transit is equipped with the improved Smith solar attachment and otherwise conforms to the standard specifications of the General Land Office. The instrument was in good condition, and having been placed in satisfactory adjustment prior to beginning the survey, and tested and found free from appreciable error, was approved by the district cadastral engineer on April 14, 1937. I examined all the instrumental adjustments before making the field tests hereinafter recorded.

The directions of the subdivisional lines were determined by solar transit method. The measurements were made with a Lufkin 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 by a clinometer in good adjustment; the horizontal equivalents are entered in the field note record.

The data furnished with the special instructions gives the geographic position for the SE. cor. of the Tp., as follows: latitude $33^{\circ}53'51''N.$, and longitude $112^{\circ}12'10''W.$

April 30, 1937, in camp in the NE $\frac{1}{4}$ of sec. 30, T.7 N., R.2 E., G. & S.R. Mer., Ariz., at 4h 0m p.m., app.t., I make the proper settings on the arcs of the solar attachment; and orient the instrument with the solar, then deflect the angle to a conspicuous sahuaro plant on a ridge about 1 mile distant; the bearing reads $N.7^{\circ}52'W.$

At 7h 40m p.m., by my watch, which reads correct 105th meridian time as determined by radio signals, I make an hour angle observation on Polaris west of the meridian, repeating the deflection angle from my reference point, in the direction N-E to Polaris, making three sights each with the telescope in direct and reversed positions.

Mean watch time of observation, p.m.	7h 40.0m
Watch fast of l.m.t.	28.7m
Mean deflection angle from reference point to Polaris	$6^{\circ}48.5' N-E.$
Reduced bearing of reference point	$N.7^{\circ}52.1'W.$

April 30, 1937.

May 1, at the same station, at 8h 0m a.m., app.t., I make the proper settings on the arcs of the solar attachment and orient the instrument with the solar; the line of sight agrees with the meridian established by Polaris Observation.

May 1, 1937.

I repeat the tests of the arcs daily by noon observation.

The observed magnetic declination is $14^{\circ}45'E.$

In 1894, A.T. Colton, Deputy Surveyor, surveyed the south boundary, part of the East boundary and the subdivisional lines of this township, with the exception of sections 13, 24, and portions of sections, 12, 25 and 36. A.N. Oliver, Transitman, in 1910 completed the survey of the east boundary of the township, and in 1918 H.L. Baldwin, Surveyor, resurveyed the south four miles of the east boundary.

The following notes describe the necessary resurveys and surveys to complete the subdivision of T.7 N., R.1 E.

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Resurvey of the South Boundary of
Sec. 36, T. 7 N., R. 1 E.

chains

Preliminary to the resurvey and survey, the lines of the original survey are retraced. The retracement data is thoroly verified and to gain simplification only the true line field notes of the resurveys are recorded herein.

The cor. of Ts. 6 and 7 N., R. 1 E., is a lava rock, 10x8x6 ins. above ground, firmly set and marked with 6 notches on N., E., S. and W. sides, and witnessed by a mound of stone 3 ft. base and 3 ft. high, S. of cor. I obliterate the notches on E. side of stone and

At point for cor.

Set an iron post, 3 ft. long, 3 ins. diam., 28 ins. in the ground, with the stone cor. reset alongside, for cor. of Ts. 6 and 7 N., R. 1 E., with brass cap mkd.

T 7 N	T 6 N
R 1 E	
S 36	R 2 E
S 1	
T 6 N	S 6

1937

and rebuild the

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

Thence,

West, bet. secs. 1 and 36.

Asc. 100 ft. on rolling SE. slope; thru desert timber and undergrowth.

3.00 Wash, 6 ft. wide, 3 ft. deep, course N.80°E.

10.40 Same wash, 6 ft. wide, 3 ft. deep, course SE.

13.00 Same wash, course NE.

16.90 Same wash, 5 ft. wide, 2 ft. deep, course S.40°E.; asc. 400 ft. on E. slope of mountain..

39.46 Set an iron post, 3 ft. long, 1 in. diam., 22 ins. in the ground to bedrock, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

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

1937

from which

A prominent peak on the dividing ridge bears N.17 $\frac{1}{2}$ °E., 44 chs. dist.

Asc. 340 ft. on E. slope.

49;60 Top of E. slope; ascend 10 ft. over broad top of dividing ridge bet. Agua Fria and New Rivers, bears N.15°E. and S.

57.80 Leave divide, bears N. and S.; desc. 230 ft. on steep W. slope.

63.25 Rocky ravine, course NW.; desc. 72 ft. on NW. slope.

77.90 Small rocky ravine, course NE.; asc. 25 ft. on NE. slope.

78.92 The cor. of secs. 1, 2, 35 and 36, which is a lava rock, 16x14x10 ins. above ground, firmly set, marked with 5 notches on W. and 1 notch on E. sides, and witnessed by a mound of stone, 3 ft. base, 2 ft. high, N. of cor.

Resurvey of the South Boundary of Section 36,

BOOK 4166

T. 7 N., R. 1 E.

chains

At point for cor.

Set an iron post, 3 ft. long, 2 ins. diam., 22 ins. in the ground to bedrock, with the stone cor. reset alongside, and rebuild the mound of stone around post to top, for cor. of secs. 1,2,35 and 36, with brass cap mkd.

T 7	N R 1 E
S 35	S 36
S 2	S 1
T 6 N	

1937

Land, mountainous.
Soil, gravelly and rocky, 3d and 4th rate.
Timber, paloverde, mesquite and ironwood.
Undergrowth, greasewood and cacti.

Resurvey and Survey of Subdivisions of T.7 N., R.1 E.

N.0°10'E., bet. secs. 35 and 36

Desc. 260 ft. on NE. slope, thru scattering timber and desert growth.

- 12.70 Rock wash, 10 ft. wide; 5 ft. deep, course NW.; asc. 41 ft.
- 17.35 Spur, slopes NW.; desc. 54 ft.
- 20.90 Rocky ravine, 6 ft. deep, 4 ft. wide, course NW. for 2 chs. then SW.; asc. 330 ft. on SW. slope.
- 36.00 East top of high point on a ridge, bears NW. and SE.; desc. 6 ft. over top of ridge.
- 39.41 The $\frac{1}{4}$ sec. cor., which is a lava rock, 14x12x10 ins., firmly set in a mound of stone, 3 ft. base and 3 ft. high, and marked $\frac{1}{4}$ on W. side.

At point for cor.

Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to bedrock, with the stone cor. reset alongside, and rebuild the mound of stone around post to top, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

$\frac{1}{4}$
S 35 | S 36

1937

N.0°05'E., bet. secs. 35 and 36.

Desc. 166 ft. on N. slope; the beginning of a ridge-spur which slopes N., is about 1 ch. west of line.

- 8.60 Change to SE. slope; asc. 126 ft.
- 27.60 Change to broken NE. slope; desc. 405 ft. The top of a hill on the ridge bears W.; about 1 ch. dist., and is about 50 ft. higher than this point.
- 40.22 The cor. of secs. 25,26,35 and 36, which is a malpais rock, 24x10x8 ins. above ground, firmly set and marked with 1 notch on S. and 1 notch on E. sides; witnessed by a mound of stone, 3 ft. base, 2 ft. high, to the west.

At point for cor.

Resurvey and Survey of Subdivisions of T.7 N., R.1 E.

chains

Set an iron post, 3 ft. long, 2 ins. diam., 14 ins. in the ground to bedrock, with the stone cor. reset alongside, and rebuild the mound of stone around post to top, for cor. of secs. 25, 26, 35 and 36, with brass cap mkd.

T 7 N R 1 E
S 26 S 25
S 35 S 36
1937

Land, mountainous.
Soil, gravelly and rocky, 3d and 4th rate.
Timber, paloverde and scattering mesquite.
Undergrowth, cacti, and scattering greasewood.

S.89°36'E., bet. secs. 25 and 36.

Asc. 10 ft. along NW. slope.

4.40 Change to NE. slope; desc. 160 ft.

21.20 Rocky wash, 50 ft. wide, 20 ft. deep, course N.15°W.; a spring of good water bears SE., 1½ chs. dist., and a natural rock tank in the wash bears NW., 1 ch. dist.; asc. 270 ft. on general W. slope.

39.81 The ¼ sec. cor., which is a lava rock, 28x14x8 ins. above ground, mkd. ¼ on N. side and witnessed by a mound of stone 3 ft. base and 2 ft. high, to the N.

At point for cor.

Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to bedrock, with the stone cor. reset alongside, and rebuild the mound of stone around post to top, for ¼ sec. cor., with brass cap mkd.

¼ S 25
¼ S 36
1937

N.89°20'E., on a random line bet. secs. 25 and 36.

38.97 A point 16 lks. N. of the cor. of secs. 25 and 36, only, on E. bdy. of Tp., which is a lava rock, 14x10x8 ins. above ground, firmly set, mkd. with 2 notches on N. and 1 notch on S. sides, and witnessed by a mound of stone, 3 ft. base and 2 ft. high to the west.

At point for cor.

Set an iron post; 3 ft. long, 2 ins. diam., 6 ins. in the ground to bedrock, with the stone cor. reset alongside, and rebuild the mound of stone, with 5 ft. base, around post to top, for cor. of secs. 25 and 36, only, on E. bdy. of Tp., with brass cap mkd.

T 7 N	T 7 N
S 25	R 2 E
S 36	S 31
R 1 E	

1937

Thence

✓ S.89°34'W., on true line bet. secs. 25 and 36.

Asc. 316 ft. on E. slope, thru some timber and undergrowth.

Resurvey and Survey of Subdivisions in T. 7 N., R.1 E.

chains	
19.50	Dividing ridge bet. Agua Fria and New River, bears N. and S.; desc. 453 ft. on W. slope.
38.97	The $\frac{1}{4}$ sec. cor. bet. secs. 25 and 36. Land, mountainous. Soil, gravelly and rocky, 3d and 4th rate. Timber, paloverde and mesquite. Undergrowth, cacti.

	From the cor. of secs. 25, 26, 35 and 36. N.0°05'E., bet. secs. 25 and 26. Desc. 261 ft. on N. slope, thru timber and undergrowth.
20.17	Box wash, 70 ft. wide, 15 ft. deep, course W.; asc. 483 ft. on broken SW. slope.
21.30	A limestone spur, 20 ft. high, 10 lks. wide, slopes W.
21.40	Box wash, 15 ft. wide, 18 ft. deep, course W.
40.50	Spur, slopes W.
40.61	The $\frac{1}{4}$ sec. cor., which is a lava rock, 24x16x10 ins. above ground, firmly set and marked $\frac{1}{4}$ on W. side. At point for cor. Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to bedrock, with the stone cor. reset alongside, and in a mound of stone, 6 ft. diam. at base, to top, for $\frac{1}{4}$ sec. cor., with brass cap mkd. $\frac{1}{4}$ S 26 S 25 1937 N.0°02'E., bet. secs. 25 and 26. Desc. 296 ft. on NW. slope.
14.20	Ravine, 12 ft. wide, 5 ft. deep, course W.; asc. 248 ft.
28.90	Spur, slopes W.; desc. 173 ft. on N. slope.
34.40	Rocky ravine, 8 ft. wide, 4 ft. deep, course W.; desc. 15 ft. on NW. slope.
37.70	Rocky ravine, 8 ft. wide, 3 ft. deep, course W.; asc. 45 ft. on SE. slope.
41.16	The cor. of secs. 23, 24, 25 and 26, which is a lava rock, 20x10x10 ins. above ground, firmly set, marked with 2 notches on S., 1 notch on E. sides, and witnessed by a mound of stone, 3 ft. base and 2 ft. high, to the west. At point for cor. Set an iron post, 3 ft. long, 2 ins. diam., 14 ins. in the ground to bedrock, with the stone cor. reset alongside, and rebuild the mound of stone with 4 ft. base around post to top, for cor. of secs. 23, 24, 25 and 26, with brass cap mkd.

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Resurvey and Survey of Subdivisions in T. 7 N., R. 1 E.

chains

T 7 N	R 1 E
S 23	S 24
S 26	S 25

1937

Land, mountainous.
Soil, gravelly and rocky, 3d and 4th rate.
Timber, paloverde; ironwood and mesquite, all scattering.
Undergrowth, cacti and greasewood.

S.88°45'E., on a random line bet. secs. 24 and 25.

40.01 Set temp. 1/4 sec. cor.

79.28 A point 36 lks. N. of the cor. of secs. 24 and 25, only, on E. bdy. of Tp., which is a lava rock, 8x8x8 ins. above ground, firmly set in a mound of stone and marked with 2 notches on S. and 4 notches on N. sides.

At point for cor.

Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground to bedrock, with the stone cor. reset alongside, and rebuild the mound of stone, with 6 ft. base, around post to top, for cor. of secs. 24 and 25, only, with brass cap mkd.

T 7 N	T 7 N
S 24	R 2 E
S 25	S 30
R 1 E	

1937

Thence

N.88°30'W., on true line bet. secs. 24 and 25.

Asc. 75 ft. on NE. slope, thru scattering timber and undergrowth.

3.40 Dividing ridge bet. Agua Fria and New River, bears N.15°E. and S.10°E.; the top of a high point on the ridge bears S.10°E. about 3 chs. dist., and is 75 ft. higher.

Desc. 818 ft. on general west slope.

33.50 Wash, 20 ft. wide, 5 ft. deep, course S.15°W.; asc. 55 ft.

39.27 Set an iron post, 3 ft. long, 1 in. diam., 20 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 24
4 S 25

1937

Asc. 432 ft. on general east slope.

58.00 Ridge, bears N. and S.15°W.; desc. 450 ft. on NW. slope.

73.40 Rocky ravine, 10 ft. wide, 15 ft. deep, course SW.; desc. 60 ft. along SW. slope.

79.28 The cor. of secs. 23,24,25 and 26.

Land, mountainous.
Soil, gravelly and rocky, 3d and 4th rate.
Timber, scattering paloverde, ironwood and mesquite.
Undergrowth, cacti.

Resurvey and Survey of Subdivisions in T.7 N., R.1 E.

chains	
	N.0°33'E., bet. secs. 23 and 24.
	Asc. 16 ft. on SW. slope, thru scattering timber and undergrowth.
1.60	Spur, slopes W.; desc. 42 ft. on NW. slope.
5.60	Box ravine, 15 ft. wide, course NW.; asc. 148 ft. over bluffs on SW. slope.
8.70	Top of bluffs; continue ascent.
12.00	Spur, slopes NW.; desc. 43 ft. on NE. slope.
14.10	Rocky ravine, 8 ft. wide, course W.; asc. 307 ft. on SW. slope.
33.10	Spur, slopes NW.; high point on spur bears SE., about 30 lks. dist.; desc. 150 ft. on NE. slope.
40.56	Rocky ravine, 6 ft. wide, course NW.; asc. 7 ft. on SW. slope.
40.81	The $\frac{1}{4}$ sec. cor., which is a lava rock, 20x10x4 ins. above ground, marked $\frac{1}{4}$ on W. side.
	At point for cor.
	Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to bedrock, with the stone cor. reset alongside, and in a mound of stone with 5 ft. base to top, for $\frac{1}{4}$ sec. cor., with brass cap mkd.
	$\frac{1}{4}$
	S 23 S 24
	1937
	N.0°25'W., bet. secs. 23 and 24.
	Desc. 15 ft. on NW. slope.
2.90	Rocky ravine, 4 ft. wide, 5 ft. deep, course SW.; asc. 65 ft. on SW. slope.
9.00	Spur, slopes S.65°W.; desc. 18 ft. on NW. slope.
14.90	Rocky ravine, 5 ft. wide, 2 ft. deep, course SW.; asc. 127 ft. on SE. slope.
19.90	Spur, slopes SW.; desc. 35 ft. on NW. slope.
27.40	Rocky ravine, 10 ft. wide, course W.; asc. 110 ft. on SW. slope.
37.00	Ridge-spur, slopes S.65°W.; desc. 35 ft. on NW. slope.
40.92	The cor. of secs. 13,14,23 and 24, which is a lava rock, 24x10x8 ins. above ground, firmly set and marked with 1 notch on E. and 3 notches on S. sides, and witnessed by a mound of stone, 2 $\frac{1}{2}$ ft. base and 1 $\frac{1}{2}$ ft. high, to the W.
	At point for cor.
	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, with the stone cor. reset alongside, for cor. of secs. 13,14,23 and 24, with brass cap mkd.

Resurvey and Survey of Subdivisions of T. 7 N., R. 1 E.

chains

.T 7 N	7R 1 E
S 14	S 13
S 23	S 24

1937

and rebuild

the mound of stone, 3 ft. base, 2 ft. high, W. of cor.

Land, mountainous.

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

Timber, scattering paloverde, ironwood and mesquite.

Undergrowth, cacti and greasewood.

S.86°45'E., on a random line bet. secs. 13 and 24.

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

79.78 A point 18. lks. S. of the cor. of secs. 13 and 24, only, on E. bdy. of Tp., which is a lava rock, 16x14x10 ins. above ground, marked with 3 notches on S. and 3 notches on N. sides. This cor. is set at the NE. cor. of a rock slide

At point for cor.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in large loose boulders, with the stone cor. reset alongside, for cor. of secs. 13 and 24, only, with brass cap mkd.

T 7 N		T 7 N
S 13		R 2 E
S 24		S 19
R 1 E		

1937

raise a mound

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

Thence

N.86°53'W., on true line bet. secs. 13 and 24.

Desc. 313 ft. on rocky W. slope, thru scattering timber and undergrowth.

15.30 Wash, 10 lks. wide, 3 ft. deep, course S.20°W.; asc. 410 ft. on general E. slope.

39.89 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in large loose boulders, to bedrock, and in a mound of stone, 5 ft. base, to top, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

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

1937

Asc. 247 ft. on general E. slope.

46.90 Top of steep ascent; ascend 105 ft. over top of ridge, bears N. and S.

63.30 Leave top of ridge, bears N.25°W. and S.20°E.; desc. 431 ft. on broken SW. slope.

74.80 Ridge-spur, slopes S.65°W.; desc. 150 ft. on NW. slope.

79.78 The cor. of secs. 13, 14, 23 and 24.

Land, mountainous.

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

Resurvey and Survey of Subdivisions of T. 7 N., R. 1 E.

chains

Timber, scattering paloverde and mesquite.
Undergrowth, cacti and greasewood.

N.0°30'E., bet. secs. 13 and 14.

Asc. 254 ft. on broken SW. slope, thru scattering timber and undergrowth.

8.25 Rocky box ravine, 20 ft. wide, 50 ft. deep, course W.

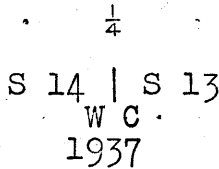
21.65 Spur, slopes W.; desc. 102 ft. on broken NW. slope.

34.50 Spur, slopes NW.

36.76 Midpoint; falls on a rock ledge, 10 ft. high where it is impracticable to establish permanent cor. monument.

At a point N.45°E., 13 lks. dist., at base of the ledge,

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



37.00 Top of precipitous bluff slope, 200 ft. high, bears NE. and SW.

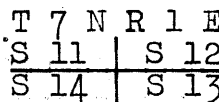
43.00 Foot of bluff slope, bears NE. and SW.; desc. 490 ft. over broken NW. slope.

71.50 Canyon wash, 50 ft. wide, 40 ft. deep, course NW.

73.52 The cor. of secs. 11, 12, 13 and 14, which is a lava rock, 16x10x8 ins. above ground, firmly set and erroneously mkd. with 5 notches on S. and 1 notch on E. sides, witnessed by a mound of stone, 3 ft. base and 2 ft. high, to the W.

At point for cor.

Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground to bedrock, with the stone cor. reset alongside, and rebuild the mound of stone, 5 ft. base, around post to top, for cor. of secs. 11, 12, 13 and 14, with brass cap mkd.



1937

Land, very rough mountainous.
Soil, rocky, 4th rate.
Timber, scattering paloverde and mesquite.
Undergrowth, cacti and greasewood.

N.88°30'E., on a random line bet. secs. 12 and 13.

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

79.70 A point 9 lks. S. of the cor. of secs. 12 and 13, only, on E. bdy. of Tp., which is a lava rock in place, 30x24x16 ins. above ground, mkd. with a cross (X) at true point, with 4 notches on S. and 2 notches on N. sides, and wit-

10.

Resurvey and Survey of Subdivisions of T.7 N., R.1 E.

chains

nessed by a mound of stone $2\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, to the W.

At a point 2 lks. North of true point for cor.

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, and in a mound of stone, 3 ft. base and 1 ft. high, for wit. cor. of secs. 12 and 13, only, with brass cap mkd.

T 7 N	T 7 N
W	C
S 12	R 2 E
S 13	
R 1 E	S 18

1937

Thence, from true point for cor.

S. $88^{\circ}26'W.$, on true line bet. secs. 12 and 13.

Asc. 160 ft. over rolling mesa, slopes SE., thru timber and scattering undergrowth.

38.50 Rim of mesa on ridge, bears N. $40^{\circ}E.$ and S. $30^{\circ}W.$; desc. 10 ft. on NW. slope.

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

$\frac{1}{4}$ S 12	
S 13	

1937

from which

The house of C.J. Brown bears N. $44\frac{1}{4}^{\circ}W.$ and his wind-mill bears N. $45^{\circ}39'W.$

The shed of Frank Avis bears N. $5\frac{1}{4}^{\circ}W.$, and his wind-mill bears N. $3^{\circ}28'W.$; there is about 5 acres of cleared land to the NE. of Avis' shed.

Desc. 500 ft. over bluffs on NW. slope.

50.00 Foot of bluffs, bears NE. and SW.; desc. 390 ft. on broken rocky NW. slope.

79.70 The cor. of secs. 11, 12, 13 and 14.

Land, E $\frac{1}{2}$ is rolling mesa; W $\frac{1}{2}$ is rough mountainous. Soil, clayloam, gravelly and rocky; 2d, 3d and 4th rate. Timber, paloverde and mesquite. Undergrowth, greasewood and cacti.

N. $0^{\circ}07'E.$, bet. secs. 11 and 12.

Desc. 207 ft. on NW. slope, thru timber and undergrowth.

22.30 Foot of mountainous land, bears E. and W.; enter dense mesquite timber in valley of Agua Fria river; asc. 19 ft.

23.80 Left bank of wash of Agua Fria river, bears E. and W.

29.00 Right bank of wash of Agua Fria river, bears E. and W.; the river water is from 2 to 14 ins. deep, about 50 lks. wide, and at this time occupies the southern part of the wash; continue over valley, thru mesquite timber.

34.00 Leave valley and mesquite timber, bears E. and W.; at old road trail, bears E. and W.; asc. 120 ft. on SE. slope.

Resurvey and Survey of Subdivisions of T. 7 N., R. 1 E.

chains

39.82

The 1/4 sec. cor., which is a limestone, 20x10x4 ins. above ground, firmly set in a mound of stone, 2 ft. base and 2 ft. high, mkd. 1/4 S on W. side.

At point for cor.

Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground to bedrock, with the stone cor. reset alongside, and rebuild the mound of stone, 3 ft. base, around post to top, for 1/4 sec. cor., with brass cap mkd.

1/4

S 11 | S 12

1937

from which

The house of C.J. Brown bears S.64 1/2°E., about 5 chs. dist.; the windmill bears S.46°09'E.

The shed (house) of Frank Avis bears N.61°15'E., and his windmill bears N.69°43'E.

The new bearing trees:

An ironwood, 5 ins. diam., bears S.32 1/2°E., 66 lks. dist., mkd. 1/4 S 12 BT.

An ironwood, 5 ins. diam., bears S.37 1/2°W., 71 lks. dist., mkd. BT.

N.0°32'E., bet. secs. 11 and 12.

.20 Spur, slopes SE.; desc. 90 ft. on NE. slope.

8.00 Rocky wash, 8 ft. wide, 3 ft. deep, course SE. for 1 ch., then S.; asc. 250 ft. over broken SE. slope.

40.53 The cor. of secs. 1,2,11 and 12, which is a lava rock, 18x8x8 ins. above ground, firmly set in a mound of stone, 2 ft. base and 1 ft. high, marked with 5 notches on S. and 1 notch on N. sides.

At point for cor.

Set an iron post, 3 ft. long, 2 ins. diam., 22 ins. in the ground to bedrock, with the stone cor. reset alongside, and rebuild the mound of stone, 3 ft. base, around post to top, for cor. of secs. 1,2,11 and 12, with brass cap mkd.

T 7 N R 1 E

S 2 | S 1
S 11 | S 12

1937

Land, mountainous and rolling.
Soil, sandy, 2d rate; gravelly, 3d rate; rocky, 4th rate.
Timber, paloverde, ironwood and mesquite.
Undergrowth, greasewood and cacti.

N.87°55'E., bet. secs. 1 and 12.

Asc. 25 ft. along broken SW. slope, thru timber and undergrowth.

1.60 Rocky wash, 15 ft. wide, 3 ft. deep, course SE.

19.85 Spur, slopes SE.; desc. 225 ft. on NE. slope.

12.

Resurvey and Survey of Subdivisions of T.7 N., R. 1 E.

chains

- 27.00 Top of rock bluff, 50 ft. high, faces E.
- 36.60 Enter wash, course SE.
- 38.60 Leave wash; asc. 33 ft. on SW. slope.
- 39.75 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, in small mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap mkd.
- $$\frac{\frac{1}{4} S 1}{S 12}$$
- 1937 from which
- An ironwood, 5 ins. diam., bears N.15°W., 37 lks. dist., mkd. $\frac{1}{4}$ S 1 BT.
- An ironwood, 6 ins. diam., bears S.34 $\frac{1}{2}$ °W., 50 lks. dist., mkd. $\frac{1}{2}$ S 12 BT.
- Frank Avis windmill bears S.7°04'W.
- Asc. 70 ft. on SW. slope.
- 42.85 Spur, slopes SE.; desc. 90 ft. on NE. slope.
- 48.00 Rocky wash, 8 ft. wide, course SE.; asc. 18 ft.
- 49.75 Short spur, slopes S.; desc. 25 ft. on SE. slope, thru dense mesquite.
- 53.60 4 wire barbed wire fence, bears NE. and SW., at foot of mountainous land; leave mesquite, enter partly cleared land in valley.
- 64.80 Hogwire fence, bears N. and S.; enter dense mesquite, bears NE. and SW.
- 65.70 Enter wash bottom of Boulder (Rock) Creek, course S.
- 67.10 Leave wash bottom; continue thru mesquite thicket.
- 68.20 Hogwire fence, bears S. and N. 30 lks, then E.; leave mesquite thicket, enter cleared land.
- 75.10 Thomas' house, a 10x10 ft. board building bears S., 1 ch. dist.
- 78.70 Cor. of fences bearing W. and S. 1 ch. to an E. and W. fence.
- 79.50 The cor. of secs. 1 and 12, only, on E. bdy. of Tp., which is a lava rock, 10x8x5 ins. above ground, firmly set in small mound of stone and marked with 5 notches on S. and 1 notch on N. sides.
- At point for cor.
- Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, with the stone cor. reset alongside, for cor. of secs. 1 and 12, only, with brass cap mkd.
- $$\begin{array}{c|c} T 7 N & T 7 N \\ \hline S 1 & R 2 E \\ \hline S 12 & S 7 \\ R 1 E & \end{array}$$
- 1937 from which
- The old bearing tree:

Resurvey and Survey of Subdivisions in T.7 N., R.1 E.

chains

A mesquite, 20 ins. diam., bears S.65°W., 167 lks. dist., overgrowth on old blaze not cut into.

The new bearing trees:

A 6 in. branch of the old bearing tree bears S.64 $\frac{3}{4}$ °W., 168 lks. dist., mkd. T 7 N R 1 E S 12 BT.

A mesquite, 8 ins. diam., bears S.28 $\frac{1}{4}$ °W., 48 lks. dist., mkd. T 7 N R 1 E S 12 BT.

Land, west 65 chs. is mountainous, balance is rolling level valley.

Soil, Rocky, 3d and 4th rate; valley land is 1st rate.

Timber, paloverde, ironwood and mesquite.

Undergrowth, cacti and greasewood.

FINAL TEST OF SOLAR ATTACHMENT.

May 9: On the camp meridian in sec. 20, T.3 S., R.11 E., described in the field notes of T.3 S., R.11 E., surveyed under this group, at 9h 0m a.m., app.t., I set off 33°09 $\frac{1}{2}$ ' N., on the lat. arc; 17°22'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 3h 00m p.m., app.t., with latitude arc unchanged, I set off 17°27'-N., on the decl. arc; and repeat the test of the solar; the line of sight agrees with the meridian established by Polaris observation.

May 9, 1937.

GENERAL DESCRIPTION.

The land in the resurveyed and newly surveyed portion of this township is all very rough mountainous except portions of the N $\frac{1}{2}$ and NW $\frac{1}{4}$ SW $\frac{1}{4}$ of sec. 12 which lie in the valley of the Agua Fria River and are level bottom land of first rate soil. The balance is gravelly and rocky, 3d and 4th rate. soil. There is a mesa on top of the mountain in sec. 13 that has been good grazing land, but at this time is rather barren of grass.

Timber is medium to scattering and consists of paloverde, ironwood and mesquite. The undergrowth is cacti and greasewood.

There is a spring of good water in the NE $\frac{1}{4}$ NW $\frac{1}{4}$ of sec. 24. Other good water is the wells mentioned in sec. 12.

Sec. 12 in the township is accessible from an unimproved road which bears northerly from sec. 12 in the Agua Fria valley, to join a road running E. and W. bet. State Highway No. 69 and Tiptop. The junction of the roads is about 8 miles distant. The road in sec. 12, generally follows along the sandy bottom of the Wash of Agua Fria River.

The only improvements are in sec. 12: C. J. Brown has a house and windmill in the NW $\frac{1}{4}$ NW $\frac{1}{4}$, with a small yard and minor other improvements, he keeps goats; Frank Avis has a shed and windmill, with a house in prospect, in the SE $\frac{1}{4}$ SW $\frac{1}{4}$, and also has about 5 acres cleared for cultivation; and Mr. Thomas has a house and yard with minor improvements in the NE $\frac{1}{4}$ NE $\frac{1}{4}$.

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BOOK 4166

4-680
(Revised May 1934)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE

FIELD ASSISTANTS

NAMES	CAPACITY
Norton B. Stephenson	Principal Assistant
A.C. Terry	Chainman
Bithel L. Sizemore	Flagman
Ray W. Hammack	Axman
Arnold H. Mc Intyre	Moundsman

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BOOK 4166

CERTIFICATE OF SURVEYOR

I, Roger F. Wilson, Surveyor, General Land Office, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 25th day of August, 1936, received from the district cadastral engineer for Arizona, with assignment instructions dated April 14, 1937, I have ~~surveyed~~ resurveyed a portion of the South boundary and resurveyed and surveyed a portion of the subdivisional lines, completing the subdivision of Township 7 North, Range 1 East,

Gila and 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.

Glendale, California
April 13, 1939

Roger F. Wilson
Surveyor
General Land Office.

CERTIFICATE OF APPROVAL

OFFICE OF SUPERVISOR OF SURVEYS,
Denver, Colorado, SEP 25 1939, 19

The foregoing field notes of the ~~survey~~ resurvey of a portion of the South boundary and resurvey and survey of a portion of the subdivisional lines, completing the subdivision of Township 7 North, Range 1 East, of the Gila and Salt River Meridian, in the State of Arizona, executed by Roger F. Wilson, Surveyor, General Land Office, under special instructions dated August 25, 1936, and assignment instructions dated April 14, 1937, having been critically examined, and the necessary corrections made prior to their certification by the engineer, the said field notes, and the ~~survey~~ resurvey and survey therein described, are hereby approved.

Frank M. Johnson
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.~~