

4-879  
(April 1933)

Book II.

BOOK 4147

4147

# FIELD NOTES

~~OF THE SURVEY OF THE~~

of the

Dependent Resurvey of the East and West Boundaries

of

Township 8 North, Range 29 East,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona

## EXECUTED BY

Roger F. Wilson, Surveyor,

General Land Office,

Under special instructions dated June 18, 1937, which provided for the surveys included under Group No. 192, bearing the approval of the Commissioner of the General Land Office under date of July 6, 1937 and assignment instructions dated July 3, 1937.

Survey commenced July 9, 1937.

Survey completed July 14, 1937.

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## Resurvey of the E. and W. Bdrs. of T. 8 N., R. 29 E.

Chains

Test of Instrument.

This resurvey was executed with Buff solar transit No. 23,829, model of 1935. The instrument is equipped with a full vertical circle and the improved Smith solar attachment, and was approved by the District Cadastral Engineer on July 3, 1937, conditional upon satisfactory field tests. All of the instrumental adjustments were examined before the field tests, hereinafter described, were made.

The directions of the lines were determined by the solar transit method. The measurements were made with a Lallie 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 given with the special instructions gives the geographic position for the SE. cor. of T. 8 N., R. 29 E., as follows: latitude  $34^{\circ} 02' 17''$  N., longitude  $109^{\circ} 14' 02''$  W.

The solar attachment was tested at the beginning of the survey on a meridian established by an observation on Polaris. The data for the establishment of this meridian is given in the field notes of the second standard parallel north, thru range 29 E., resurveyed under this group.

July 8, 1937: Every 30 minutes during the usual hours of solar work, I make the proper settings on the arcs of the solar attachment. The resulting orientation of the instrument, when compared with the meridian established by Polaris observation, had a maximum error of less than  $1' 30''$ .

The test of the solar was repeated at frequent intervals, and the transit maintained in good adjustment throughout the survey.

Resurvey of the E. Bdy. of T. 8 N., R. 29 E.

The E. bdy. of T. 8 N., R. 29 E. was surveyed by C. B. Foster, Deputy Surveyor, in 1875, and retraced by A. E. Shoemaker, Deputy Surveyor, in 1883. The following field notes are a record of a dependent resurvey.

From the cor. of Tps. 7 and 8 N., Rs. 29 and 30 E.

North, on a random line bet. secs. 31 and 36, 25 and 30, 19 and 24, 13 and 18, 7 and 12, and 1 and 6.

40.00 No trace of the  $\frac{1}{4}$  sec. cor. Set temp. cor.

80.54 A point 2 lks. W. of the cor. of secs. 25, 30, 31 and 36.

120.81 A point 40 lks. E. of the  $\frac{1}{4}$  sec. cor.

160.98 A point 61 lks. E. of the cor. of secs. 19, 24, 25 and 30.

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Resurvey of the E. Bdy. of T. 8 N., R. 29 E.

Chains	
201.18	A point 1.27 chs. E. of the $\frac{1}{4}$ sec. cor.
241.58	A point 1.68 chs. E. of the cor. of secs. 13, 18, 19 and 24.
282.92	A point 2.17 chs. E. of the $\frac{1}{4}$ sec. cor.
323.02	A point 1.89 chs. E. of the cor. of secs. 7, 12, 13 and 18.
363.15	No trace of the $\frac{1}{4}$ sec. cor. Set temp. cor.
401.67	A point 3.40 chs. E. of the cor. of secs. 1, 6, 7 and 12.
441.67	A point 3.59 chs. E. of the $\frac{1}{4}$ sec. cor.
482.74	A point 4.14 chs. E. of the original closing cor. of Tps. 8 N., Rs. 29 and 30 E., which is a lava stone, 12x8x6 ins., set in a small mound of stone, mkd. with 6 notches on each of the S., E. and W. edges.

Thence, from cor.

S. 0° 46' E., on a blank line.

0.13 Intersect the second standard parallel north.

Set an iron post, 3 ft. long, 3 ins. diam., 27 ins. in the ground, with the original lava stone set alongside, for closing cor. of Tps. 8 N., Rs. 29 and 30 E., with brass cap mkd.

T9N R29E	
S 36	
S 1	S 6
R29E	R30E
T8N	
CC	
1937	

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

From point of intersection the standard cor. of secs. 35 and 36, T. 9 N., R. 29 E., bears S. 89° 08' W., 20.00 chs. dist., described in the field notes of the second standard parallel north; thru range 29 E., resurveyed under this group.

From the same point the standard  $\frac{1}{4}$  sec. cor., on the S. bdy. of sec. 36, T. 9 N., R. 29 E., bears N. 89° 08' E., 20.16 chs. dist., described in the field notes of the second standard parallel north, thru range 29 E., resurveyed under this group.

I continue S. 0° 46' E., on true line bet. secs. 1 and 6, with new measurement.

Over level land, along a barbed wire fence and a dim road.

40.94 The  $\frac{1}{4}$  sec. cor., which is a lava stone, 16x12x6 ins., set in a small mound of stone, mkd.  $\frac{1}{4}$  on top.

## Resurvey of the E. Bdy. of T. 8 N., R. 29 E.

BOOK 4147

## Chains

At point for cor., with the original stone set alongside.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for  $\frac{1}{4}$  sec. cor., with brass cap mkd.

$$\begin{array}{c} \frac{1}{4} \\ \text{S } 1 \mid \text{S } 6 \\ 1937 \end{array}$$

from which

Original bearing trees: Not of record.

A juniper fork, 12 ins. diam., bears N.  $39^{\circ}$  E., 418 lks. dist., markings overgrown, I remark this tree  $\frac{1}{4}$  S 6 B T.

A juniper, 8 ins. diam., bears S.  $42\frac{1}{2}^{\circ}$  E., 127 lks. dist., mkd.  $\frac{1}{4}$  S.

A new bearing tree:

A juniper, 8 ins. diam., bears S.  $67^{\circ}$  E., 240 lks. dist., mkd.  $\frac{1}{4}$  S 6 B T.

A fence, which runs N. and S., bears W., 14 lks. dist.

S.  $0^{\circ} 16'$  E., on true line bet. secs. 1 and 6.

Over level land, thru scattering juniper timber; along a barbed wire fence and a dim road.

35.00 Timber becomes more dense.

40.00 The cor. of secs. 1, 6, 7 and 12, which is a lava stone, 14x14x10 ins., set in a small mound of stone, mkd. with 5 notches on the S. edge and 1 notch on the N. edge.

At point for cor., with the original stone set alongside.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, for cor. of secs. 1, 6, 7 and 12, with brass cap mkd.

$$\begin{array}{c} \text{T8N} \\ \text{R29E} \quad \text{R30E} \\ \text{S } 1 \mid \text{S } 6 \\ \hline \text{S } 12 \mid \text{S } 7 \\ 1937 \end{array}$$

from which

An original bearing tree: Not of record.

A juniper fork, 6 ins. diam., bears N.  $89\frac{1}{2}^{\circ}$  W., 77 lks. dist., mkd. T VIII N R XXIX E S I B T.

New bearing trees:

A juniper, 12 ins. diam., bears N.  $39\frac{3}{4}^{\circ}$  E., 223 lks. dist., mkd. T 8 N R 30 E S 6 B T.

A juniper fork, 6 ins. diam., bears S.  $33^{\circ}$  E., 256 lks. dist., mkd. T 8 N R 30 E S 7 B T.

## Resurvey of the E. Bdy. of T. 8 N., R. 29 E.

Chains	
	<p>A juniper, 10 ins. diam., bears S. 25° W., 77 lks. dist., mkd. T 8 N R 29 E S 12 B T.</p> <p>A fence, which runs N. and S., bears E., 5 lks. dist.</p> <p>Land, level. Soil, gravel over sandy loam, 2nd rate. Timber, scattering juniper on S. <math>\frac{1}{2}</math> mile; undergrowth, none.</p>
	<p>S. 1° 06' E., on true line bet. secs. 7 and 12.</p>
	<p>Asc. 42 ft. over a general N. slope, thru juniper and scattering pinon timber, along a fence and a dim road.</p>
14.50	<p>Leave timber, bears E. and W.; slope changes to NW.; asc. 58 ft.</p>
32.80	<p>Draw, 4 ft. wide, course NW.; dim road bears SE., from N.; asc. 46 ft. over a NE. slope, thru timber.</p>
39.33	<p>Proportional distance:</p> <p>Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, and in a mound of stone, 2 ft. base, 10 ins. high, for <math>\frac{1}{4}</math> sec. cor., with brass cap mkd.</p>
	$\begin{array}{c} \frac{1}{4} \\   \\ \text{S } 12 \text{   S } 7 \\   \\ 1937 \end{array}$
	<p style="text-align: right;">from which</p>
	<p>A juniper fork, 8 ins. diam., bears N. 59<math>\frac{1}{4}</math>° E., 133 lks. dist., mkd. <math>\frac{1}{4}</math> S 7 B T.</p>
	<p>A juniper fork, 6 ins. diam., bears S. 67<math>\frac{1}{2}</math>° W., 54 lks. dist., mkd. <math>\frac{1}{4}</math> S 12 B T.</p>
	<p>A fence, which runs N. and S., bears E., 25 lks. dist.</p>
	<p>Asc. 278 ft. over a NE. slope.</p>
55.43	<p>Fence cor., bears E., 30 lks. dist., from which fences extend NW. SE. and N. 1<math>\frac{1}{2}</math>° W.</p>
56.80	<p>U. S. Highway No. 260, at curve, bears NW. to Springer-ville and SE. to Nutrioso.</p>
58.70	<p>Barbed wire fence, bears N. 15° W. and S. 15° E. about 1 ch. dist., thence S.</p>
78.00	<p>Ridge, bears N. 30° W. and S. 75° E.</p>
78.66	<p>The cor. of secs. 7, 12, 13 and 18, which is a lava stone, 16x16x8 ins., set in a mound of stone, 3 ft. base, 1 ft. high, mkd. with 2 notches on the N. edge and 4 notches on the S. edge.</p>
	<p>At point for cor., with the original stone set alongside.</p>
	<p>Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the ground, and in a mound of stone to top, for cor. of secs. 7, 12, 13 and 18, with brass cap mkd.</p>

## Resurvey of the E. Bdy. of T. 8 N., R. 29 E.

Chains

T8N	
R29E	R30E
S 12	S 7
S 13	S 18
1937	

from which

An original bearing tree:

A pine, 18 ins. diam., bears S.  $21\frac{1}{2}^{\circ}$  E., 36 lks. dist., mkd. T VIII N R XIX E S XVIII B T.

New bearing trees:

A juniper, 6 ins. diam., bears N.  $26\frac{1}{4}^{\circ}$  E., 190 lks. dist., mkd. T 8 N R 30 E S 7 B T.

A juniper fork, 8 ins. diam., bears S.  $29\frac{1}{4}^{\circ}$  W., 122 lks. dist., mkd. T 8 N R 29 E S 13 B T.

A juniper fork, 8 ins. diam., bears N.  $37\frac{1}{2}^{\circ}$  W., 300 lks. dist., mkd. T 8 N R 29 E S 12 B T.

Land, N.  $\frac{1}{2}$  mile, nearly level; S.  $\frac{1}{2}$  mile, rolling.  
Soil, gravel to rocky, over sandy loam; 2nd and 3d rate.  
Timber, juniper and scattering pinon; undergrowth, none.

S.  $0^{\circ} 24'$  W., on true line, bet. secs. 13 and 18.

Desc. 17 ft. over a S. slope, thru juniper and pinon timber.

- 4.00 Leave timber, bears E. and W.
- 12.30 Draw, about 5 chs. wide, course W.; asc. 63 ft. over a NW. slope.
- 23.45 Graded road, bears N.  $40\frac{3}{4}^{\circ}$  E. to U. S. Highway No. 260, and S.  $40\frac{3}{4}^{\circ}$  W. to the M and M ranch.
- 29.70 Broad ridge, bears N.  $45^{\circ}$  E. and S.  $30^{\circ}$  W., continue across same.
- 34.75 1 wire telephone line, bears E. and W.
- 36.45 Old road, bears E. and W.
- 40.10 The  $\frac{1}{4}$  sec. cor., which is a mound of stone,  $1\frac{1}{2}$  ft. base, 6 ins. high, at the cor. of fences which extend S.  $89^{\circ} 45'$  E., S. and N.  $62\frac{1}{2}^{\circ}$  W.

At point for cor.

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, and in a mound of stone to top, for  $\frac{1}{4}$  sec. cor., with brass cap mkd.

$\frac{1}{4}$	
S 13	S 18
1937	

from which

## Resurvey of the E. Bdy. of T. 8 N., R. 29 E.

## Chains

A pinon fork, 8 ins. diam., bears S.  $62^{\circ}$  E., 523 lks. dist., mkd.  $\frac{1}{2}$  S 18 B T.

No suitable W. bearing tree.

S.  $0^{\circ} 41'$  E., on true line bet. secs. 13 and 18.

Over rolling land.

9.90 Desc. 36 ft. over a SE. slope.

15.70 Old road, bears NE. and SW..

16.00 Gully, 5 ft. wide, 2 ft. deep, course NE.; asc. 53 ft. over a NW. slope.

19.90 Spur, slopes NE., thence over top of same.

27.00 Desc. 80 ft. over a SE. slope; enter juniper and pinon timber, bears E. and W.

37.20 Gully, 3 ft. wide, course E.; asc. 32 ft. over a NE. slope.

41.30 Short spur, slopes E.

41.34 The cor. of secs. 13, 18, 19 and 24, which is a lava stone,  $16 \times 10 \times 8$  ins., set in a mound of stone, 3 ft. base, 1 ft. high, mkd. with 3 notches on each of the N. and S. edges.

At point for cor., with the original stone set alongside.

Set an iron post, 3 ft. long, 2 ins. diam., 22 ins. in the ground to bedrock, and in a mound of stone to top, for cor. of secs. 13, 18, 19 and 24, with brass cap mkd.

T8N	
R29E	R30E
S 13	S 18
S 24	S 19
1937	

from which

A pinon, 12 ins. diam., bears N.  $44\frac{1}{2}^{\circ}$  E., 288 lks. dist., mkd. T 8 N R 30 E S 18 B T.

A pinon, 8 ins. diam., bears S.  $85^{\circ}$  E., 102 lks. dist., mkd. T 8 N R 30 E S 19 B T.

A juniper, 16 ins. diam., bears S.  $44\frac{1}{2}^{\circ}$  W., 243 lks. dist., mkd. T 8 N R 29 E S 24 B T.

A juniper, 8 ins. diam., bears N.  $50\frac{1}{2}^{\circ}$  W., 253 lks. dist., mkd. T 8 N R 29 E S 13 B T.

A fence, which runs N. and S., bears W., 33 lks. dist.

Land, rolling to level.

Soil, rocky over sandy loam, 3d rate.

Timber, juniper and pinon; undergrowth, none.



## Resurvey of the E. Bdy. of T. 8 N., R. 29 E.

- Chains
- S. 0° 35' E., on true line bet. secs. 19 and 24.
- Desc. 15 ft. over a SE. slope, thru juniper and pinon timber.
- 3.20 Rocky wash, 8 ft. wide, 3 ft. deep, course N. 30° E.; asc. 205 ft. over a NW. slope.
- 31.76 Fence, bears N. 22° W., 1.20 chs. dist., thence N. and S. 22° E., 5 chs. dist., thence S.; ridge-spur, slopes NE. from SE.; asc. 18 ft. along a general NW. slope.
- 35.60 Road, bears W. and E., 1 ch. dist., thence S. to the M and M ranch.
- 38.70 Fence cor., from which fences extend S. and N. 61° E., about 2.50 chs. dist., thence N. 22° W.
- 40.40 The  $\frac{1}{4}$  sec. cor., which is a lava stone, 10x10x9 ins., set in a mound of stone, 2 ft. base, 1 ft. high, mkd.  $\frac{1}{4}$  on the W. face.
- At point for cor., with the original stone set alongside.
- Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base, 1 $\frac{1}{2}$  ft. high, for  $\frac{1}{4}$  sec. cor., with brass cap mkd.
- |      |               |      |
|------|---------------|------|
|      | $\frac{1}{4}$ |      |
| S 24 |               | S 19 |
| 1937 |               |      |
- from which
- An original bearing tree: Not of record.
- A juniper fork, 14 ins. diam., bears N. 61° W., 239 lks. dist., markings overgrown, I remark this tree  $\frac{1}{4}$  S 24 B T. x
- A new bearing tree:
- A juniper, 8 ins. diam., bears N. 1 $\frac{1}{2}$ ° E., 316 lks. dist., mkd.  $\frac{1}{4}$  S 19 B T.
- S. 0° 56' E., on true line bet. secs. 19 and 24.
- Over rolling land.
- 40.21 The cor. of secs. 19, 24, 25 and 30, which is a lava stone, 16x12x8 ins., set in a mound of stone, 2 ft. base 1 ft. high, mkd. with 4 notches on the N. edge and 2 notches on the S. edge.
- At point for cor., with the original stone set alongside.
- Set an iron post; 3 ft. long; 2 ins. diam., 18 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base, 1 $\frac{1}{2}$  ft. high, for cor. of secs. 19, 24, 25 and 30, with brass cap mkd.

T8N		
R29E	R30E	
S 24		S 19
S 25		S 30
1937		

Resurvey of the E. Bdy. of T. 8 N., R. 29 E.

Chains	
	<p style="text-align: right;">from which</p> <p>A pinon, 10 ins. diam., bears S. 41° W., 569 lks. dist., mkd. T 8 N R 29 E S 25 B T.</p> <p>No other suitable bearing trees.</p> <p>Land, rolling to level. Soil, sandy loam and rocky, 3d rate. Timber, juniper and pinon on N. 35 chs.; undergrowth, none.</p>
	<p>S. 0° 18' E., on true line bet. secs. 25 and 30.</p> <p>Over nearly level land, along a barbed wire fence.</p>
10.00	Draw, about 4 chs. wide, course W.; enter scattering juniper and pinon timber.
15.00	Asc. 71 ft. over a gentle N. slope.
40.17	<p>The <math>\frac{1}{4}</math> sec. cor., which is a lava stone, 10x8x8 ins., set in a mound of stone, 2 ft. base, 1 ft. high, mkd. <math>\frac{1}{4}</math> on the W. face.</p> <p>At point for cor., with the original stone set alongside.</p> <p>Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, and in a mound of stone to top, for <math>\frac{1}{4}</math> sec. cor., with brass cap mkd.</p> <div style="text-align: center;"> <math display="block">\begin{array}{c} \frac{1}{4} \\   \\ S\ 25\   \ S\ 30 \\   \\ 1937 \end{array}</math> </div> <p style="text-align: right;">from which</p> <p>A juniper, 8 ins. diam., bears S. 31° E., 141 lks. dist., mkd. <math>\frac{1}{4}</math> S 30 B T.</p> <p>A juniper, 12 ins. diam., bears N. 70° W., 203 lks. dist., mkd. <math>\frac{1}{4}</math> S 25 B T.</p> <p>Divide bet. Murray Basin and Milligan Valley, bears N. 35° E., and S. 35° W.</p> <p>S. 0° 36' E., on true line bet. secs. 25 and 30.</p> <p>Over nearly level land, slope generally SE.</p>
12.50	Unimproved road, bears NE. and SW.
24.80	Desc. 94 ft. over a SE. slope.
29.80	Rocky wash, 6 ft. wide, 3 ft. deep, course SE.; thence asc. 15 ft. along an E. slope.
40.27	<p>The cor. of secs. 25, 30, 31 and 36, which is a lava stone, 16x8x4 ins., set in a small mound of stone, mkd. with 1 notch on the S. edge and 5 notches on the N. edge.</p> <p>At point for cor., with the original stone set alongside.</p> <p>Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, to bedrock, and in a mound of stone to top, for cor. of secs. 25, 30, 31 and 36, with brass cap mkd.</p>

## Resurvey of the E. Bdy. of T. 8 N., R. 29 E.

Chains

T8N	
R29E	R30E
S 25	S 30
S 36	S 31
1937	

from which

An original bearing tree:

A juniper, 16 ins. diam., bears N.  $71\frac{1}{2}^{\circ}$  W., 111 lks. dist., mkd. T VIII N R XXIX E S XXV B T.

New bearing trees:

A juniper, 6 ins. diam., bears N.  $58^{\circ}$  E., 94 lks. dist., mkd. T 8 N R 30 E S 30 B T.

A juniper, 6 ins. diam., bears S.  $85\frac{1}{4}^{\circ}$  E., 123 lks. dist., mkd. T 8 N R 30 E S 31 B T.

A juniper, 5 ins. diam., bears S.  $37\frac{3}{4}^{\circ}$  W., 93 lks. dist., mkd. S 36 B T.

Land, level to rolling.

Soil, rocky over sandy loam, 3d rate.

Timber, juniper and pinon; undergrowth, none.

S.  $0^{\circ} 01'$  W., on true line bet. secs. 31 and 36.

Desc. 40 ft. over a SE. slope, thru scattering timber.

12.90 Wash, 5 ft. wide, 2 ft. deep, course E.; desc. 27 ft. along a SE. slope.

30.00 Land becomes nearly level.

38.91 Barbed wire fence, bears N.  $35\frac{3}{4}^{\circ}$  E. and S.  $35\frac{3}{4}^{\circ}$  W.

40.27 Proportional distance:

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

$\frac{1}{4}$	
S 36	S 31
1937	

from which

A juniper, 26 ins. diam., bears S.  $59\frac{1}{4}^{\circ}$  E., 652 lks. dist., mkd.  $\frac{1}{4}$  S 31 B T.

A juniper fork, 10 ins. diam., bears S.  $82\frac{1}{2}^{\circ}$  W., 400 lks. dist., mkd.  $\frac{1}{4}$  S 36 B T.

A fence cor., bears N.  $14\frac{1}{2}^{\circ}$  E., 219 lks. dist., from which fences extend N. and S.  $36^{\circ}$  W.

49.00 Desc. 47 ft. over a S. slope.

## Resurvey of the E. Bdy. of T. 8 N., R. 29 E.

## Chains

- 51.70 Rocky draw, 30 ft. wide, course SE.; asc. 20 ft. over a NE. slope.
- 54.10 Slope changes to SE.; desc. 37 ft.
- 59.33 Barbed wire fence, bears N. 17° W., and S. 17° E.
- 79.60 Wash, 15 ft. wide, course N. 75° E.; asc. 15 ft. over a NE. slope.
- 80.54 The cor. of Tps. 7 and 8 N., Rs. 29 and 30 E., which is an iron post, 3 ins. diam., 12 ins. above ground, mkd., set and witnessed as described in the official record.
- Land, rolling to level.  
Soil, rocky over sandy loam, 3d rate.  
Timber, scattering juniper and pinon; undergrowth, none.

## Resurvey of the W. Bdy. of T. 8 N., R. 29 E.

- The W. bdy. of T. 8 N., R. 29 E., was surveyed by C. B. Foster, Deputy Surveyor, in 1875. No resurveys are of record.
- From the cor. of Tps. 7 and 8 N., Rs. 28 and 29 E.
- North, on a random line bet. secs. 31 and 36, 25 and 30, 19 and 24, 13 and 18, 7 and 12, and 1 and 6.
- 40.00 No trace of the  $\frac{1}{4}$  sec. cor. Set temp. cor.
- 81.00 A point 42 lks. E. of the cor. of secs. 25, 30, 31 and 36.
- 121.00 No trace of the  $\frac{1}{4}$  sec. cor. Set temp. cor.
- 162.90 A point 30 lks. W. of the cor. of secs. 19, 24, 25 and 30.
- 202.90 No trace of the  $\frac{1}{4}$  sec. cor. Set temp. cor.
- 244.26 A point 4.15 chs. E. of the cor. of secs. 13, 18, 19 and 24.
- 284.67 A point 6.32 chs. E. of the  $\frac{1}{4}$  sec. cor.
- 324.47 A point 4.04 chs. E. of the cor. of secs. 7, 12, 13 and 18.
- 364.47 No trace of the  $\frac{1}{4}$  sec. cor. Set temp. cor.
- 404.97 A point 4.74 chs. E. of the cor. of secs. 1, 6, 7 and 12.
- 444.97 No trace of the  $\frac{1}{4}$  sec. cor. Set temp. cor.
- 481.67 A point 5.54 chs. E. of the closing cor. of Tps. 8 N., Rs. 28 and 29 E.

## Resurvey of the W. Bdy. of T. 8 N., R. 29 E.

BOOK 4147

## Chains

Return to the cor. of Tps. 7 and 8 N., Rs. 28 and 29 E., described in the field notes of the N. bdy. of T. 7 N., R. 29 E., resurveyed under this group.

N. 0° 18' W., on true line bet. secs. 31 and 36.

Desc. 20 ft. over mountain top, thru yellow pine and scattering juniper timber.

19.00 The SW. cor. of a cienága, about 5 chs. diam.

24.00 Asc. 105 ft. over a general S. slope.

37.00 Thence across rolling mountain top.

40.50 Proportional distance:

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.

$$\begin{array}{c} \frac{1}{4} \\ \text{S } 36 \text{ | S } 31 \\ 1937 \end{array}$$

from which

A yellow pine, 10 ins. diam., bears N. 73° E., 72 lks. dist., mkd.  $\frac{1}{4}$  S 31 B T.

A yellow pine, 16 ins. diam., bears N. 65° W., 19 lks. dist., mkd.  $\frac{1}{4}$  S 36 B T.

46.10 Leave mountain top and desc. 413 ft. over a N. slope, thru pine, fir and aspen timber.

61.00 Timber becomes scattering.

69.00 Center of an open park, about 8 chs. wide (N. and S.) and 15 chs. long, (E. and W.); draw, course W.; asc. 42 ft. over a SW. slope.

81.00 The cor. of secs. 25, 30, 31 and 36, which is a lava stone, 20x14 ins., 8 ins. above ground, mkd. with 5 notches on the N. edge and 1 notch on the S. edge.

At point for cor., with the original stone set alongside.

Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the ground, and in a small mound of stone, for cor. of secs. 25, 30, 31 and 36, with brass cap mkd.

$$\begin{array}{c} \text{T8N} \\ \text{R28E | R29E} \\ \text{S } 25 \text{ | S } 30 \\ \hline \text{S } 36 \text{ | S } 31 \\ 1937 \end{array}$$

from which

Original bearing trees:

A yellow pine, 12 ins. diam., bears N. 28 $\frac{1}{4}$ ° E., 28 lks. dist., mkd. T VIII N R XXIX E S XXX B T.

## Resurvey of the W. Bdy. of T. 8 N., R. 29 E.

## Chains

A yellow pine, 16 ins. diam., dead and fallen, bears S.  $65^{\circ}$  E., 68 lks. dist., properly mkd. with Roman numerals.

## New bearing trees:

A yellow pine, 20 ins. diam., bears N.  $70\frac{1}{2}^{\circ}$  E., 134 lks. dist., mkd. T 8 N R 29 E S 30 B T.

A yellow pine, 14 ins. diam., bears S.  $72^{\circ}$  E., 150 lks. dist., mkd. T 8 N R 29 E S 31 B T.

A yellow pine, 10 ins. diam., bears S.  $8\frac{1}{4}^{\circ}$  W., 425 lks. dist., mkd. T 8 N R 28 E S 36 B T.

A yellow pine, 10 ins. diam., bears N.  $11\frac{1}{2}^{\circ}$  W., 60 lks. dist., mkd. T 8 N R 28 E S 25 B T.

Land, rolling mountainous.

Soil, rocky over dark loam, 3d rate.

Timber, yellow pine, juniper, fir and aspen; undergrowth, none.

N.  $0^{\circ} 30'$  E., on true line bet. secs. 25 and 30.

Over nearly level land, thru timber.

2.00 Spur, slopes W.; desc. 40 ft. over a NW. slope.

4.40 1 wire telephone line, bears E. and W.

8.50 Head of small ravine, 3 ft. wide, 1 ft. deep, course W.; asc. 49 ft. over a SW. slope.

16.30 Rocky spur, slopes NW.; desc. 232 ft. over a general NW. slope.

33.40 Ravine, 2 ft. wide, 1 ft. deep, course NW.; asc. 59 ft. over a SW. slope.

36.95 Short spur, slopes NW.; desc. 40 ft. over a N. slope.

40.95 Proportional distance:

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 25 | S 30  
 1937

from which

A juniper, 6 ins. diam., bears S.  $40\frac{1}{2}^{\circ}$  E., 51 lks. dist., mkd.  $\frac{1}{4}$  S 30 B T.

A juniper, 4 ins. diam., bears W., 112 lks. dist., mkd.  $\frac{1}{4}$  S 25 B T.

Desc. 86 ft. over a general NW. slope.

56.00 Thence over rolling land sloping NW.

## Resurvey of the W. Bdy. of T. 8 N., R. 29 E. BOOK 4147

Chains

79.00 Desc. 20 ft. over a NW. slope.

81.90 The cor. of secs. 19, 24, 25 and 30, which is a lava stone, 16x12x8 ins., set in a mound of stone, 2 ft. base, 1 ft. high, mkd. with 4 notches on the N. edge and 2 notches on the S. edge.

At point for cor., with the original stone set alongside.

Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground to bedrock, and in a mound of stone to top, for cor. of secs. 19, 24, 25 and 30, with brass cap mkd.

T8N	
R28E	R29E
S 24	S 19
S 25	S 30
1937	

from which

Original bearing trees:

A yellow pine, 18 ins. diam., bears N.  $53\frac{1}{2}^{\circ}$  E., 19 lks. dist., markings overgrown.A yellow pine, 10 ins. diam., bears S.  $45^{\circ}$  E., 13 lks. dist., markings overgrown.A yellow pine, 14 ins. diam., bears S.  $34^{\circ}$  W., 9 lks. dist., markings overgrown. This tree was not included in the original record.

New bearing trees:

A juniper, 5 ins. diam., bears S.  $59\frac{1}{2}^{\circ}$  E., 10 lks. dist., mkd. S 30 B T.A juniper, 8 ins. diam., bears N.  $43\frac{1}{2}^{\circ}$  W., 36 lks. dist., mkd. T 8 N R 28 E S 24 B T.

Land, rolling mountainous.

Soil, rocky over dark loam, 3d rate.

Timber, yellow pine, juniper and scattering mahogany; undergrowth, none.

N.  $3^{\circ} 08'$  W., on true line bet. secs. 19 and 24.

Desc. 21 ft. along a NW. slope, thru timber.

4.00 Spur, slopes NW.; desc. 267 ft. over a N. slope.

32.00 Slope changes to NW.; desc. 223 ft.

40.74 Proportional distance:

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for  $\frac{1}{4}$  sec. cor., with brass cap mkd.

$\frac{1}{4}$	
S 24	S 19
1937	

from which

## Resurvey of the W. Bdy. of T. 8 N., R. 29 E.

Chains

A juniper, 6 ins. diam., bears N.  $57\frac{3}{4}^{\circ}$  E., 89 lks. dist., mkd.  $\frac{1}{4}$  S 19 B T.

A yellow pine, 16 ins. diam., bears S.  $71\frac{3}{4}^{\circ}$  W., 69 lks. dist., mkd.  $\frac{1}{4}$  S 24 B T.

51.80 Ravine, 6 ft. wide, 2 ft. deep, course NE.; asc. 22 ft. along a SE. slope.

61.35 Ridge-spur, slopes NE.; continue across same, along a NE. slope.

68.00 Desc. 60 ft. over a N. slope.

75.00 Wagon road, bears E. and W.

76.60 Ravine, 6 ft. wide, 3 ft. deep, course E.; asc. 28 ft. over a SE. slope.

81.32 4 strand barbed wire fence, bears E. and W.

81.48 The cor. of secs. 13, 18, 19 and 24, which is a lava stone, 14x12x6 ins., set in a mound of stone, 3 ft. base, 1 ft. high, mkd. with 3 notches on each of the N. and S. edges.

At point for cor., with the original stone set alongside.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 13, 18, 19 and 24, with brass cap mkd.

T8N	
R28E	R29E
S 13	S 18
S 24	S 19
1937	

from which

An original bearing tree:

A pinon, 10 ins. diam., bears N.  $78^{\circ}$  E., 32 lks. dist., mkd. T VIII N R XXIX E S XVIII B T.

New bearing trees:

A juniper, 4 ins. diam., bears N.  $50\frac{1}{2}^{\circ}$  E., 75 lks. dist., mkd. S 18 B T.

A juniper, 20 ins. diam., bears S.  $80\frac{1}{2}^{\circ}$  E., 46 lks. dist., mkd. T 8 N R 29 E S 19 B T.

A juniper fork, 8 ins. diam., bears S.  $56^{\circ}$  W., 79 lks. dist., mkd. T 8 N R 28 E S 24 B T.

A juniper fork, 4 ins. diam., bears N.  $61\frac{1}{2}^{\circ}$  W., 84 lks. dist., mkd. S 13 B T.

Land, rolling mountainous.

Soil, rocky over dark loam, 3d rate.

Timber, yellow pine, juniper and scattering pinon and mahogany; undergrowth, none.



## Resurvey of the W. Bdy. of T. 8 N., R. 29 E.

BOOK 4147

Chains	
	N. 3° 04' W., on true line bet. secs. 13 and 18. Over rolling land, thru timber.
4.00	Low spur, slopes SE.; asc. 14 ft. along a SE. slope.
6.50	Ridge, bears NE. and SW.; desc. 75 ft. along a general N. slope.
18.50	Ravine, 5 ft. wide, 1 ft. deep, course NE.; desc. 165 ft. over a NE. slope.
21.00	7 strand barbed wire fence, bears E. and W.
40.47	The $\frac{1}{4}$ sec. cor., which is a lava stone, 12x12x8 ins., set in a mound of stone, 2 ft. base, 1 ft. high, mkd. $\frac{1}{4}$ on top.  At point for cor., with the original stone set alongside.  Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd.
	$\begin{array}{c} \frac{1}{4} \\   \\ S\ 13\   S\ 18 \\   \\ 1937 \end{array}$
	from which
	An original bearing tree:  A pinon, 12 ins. diam., bears N. 39 $\frac{1}{4}$ ° W., 37 lks. dist.; markings very dim, I remark this tree $\frac{1}{4}$ S 13 B T.  A new bearing tree:  A juniper, 5 ins. diam., bears S. 53 $\frac{3}{4}$ ° E., 98 lks. dist., mkd. $\frac{1}{4}$ S 18 B T.
	N. 3° 17' E., on true line bet. secs. 13 and 18. Desc. 50 ft. over a NE. slope, along a fence, which bears N. and S.
3.00	Grassy draw, 2 chs. wide, course E., continue descent.
6.50	Spur, slopes E.; desc. 124 ft. over a N. slope.
11.87	Fence, bears N. 2° W., from S. 3 $\frac{1}{4}$ ° W.
16.30	Irrigation ditch, 6 ft. wide, 2 ft. deep, course E.
18.20	Wash, 12 ft. wide, 1 ft. deep, stagnant water in places, course NE.; thence over rolling land, slope generally SE.
19.82	3 strand barbed wire fence, bears E. and W.
25.40	Wash, 10 ft. wide, 1 ft. deep, course E.; asc. 65 ft. over a SE. slope.
28.85	Irrigation ditch, 6 ft. wide, 2 ft. deep, course SW.
39.87	The cor. of secs. 7, 12, 13 and 18, which is a lava stone, 12x12x8 ins., set in a mound of stone, 3 ft. base, 1 ft. high, improperly mkd. with 1 notch on the N. edge and 5 notches on the S. edge.

## Resurvey of the W. Bdy. of T. 8 N., R. 29 E.

## Chains

At point for cor., with the original, stone set alongside.

Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the ground, and in a mound of stone to top, for cor. of secs. 7, 12, 13 and 18, with brass cap mkd.

T8N	
R28E	R29E
S 12	S 7
S 13	S 18
1937	

from which

A juniper fork, 4 ins. diam., bears N.  $51\frac{3}{4}^{\circ}$  E., 162 lks. dist., mkd. T 8 N R 29 E S 7 B T.

A juniper fork, 8 ins. diam., bears S.  $23\frac{1}{2}^{\circ}$  E., 88 lks. dist., mkd. T 8 N R 29 E S 18 B T.

A juniper fork, 6 ins. diam., bears S.  $70\frac{3}{4}^{\circ}$  W., 74 lks. dist., mkd. T 8 N R 28 E S 13 B T.

A pinon, 8 ins. diam., bears N.  $51\frac{3}{4}^{\circ}$  W., 124 lks. dist., mkd. T 8 N R 28 E S 12 B T.

Land, rolling mountainous.

Soil, rocky over dark loam, 3d rate.

Timber, yellow pine, pinon and juniper; undergrowth, none.

N.  $0^{\circ} 30'$  W., on true line bet. secs. 7 and 12.

Along an E. slope, thru timber.

- 8.65 A barn, bears E., about 8 chs. dist., the chimney on a house, bears N.  $51\frac{3}{4}^{\circ}$  E., about 10 chs. dist.
- 20.00 3 strand barbed wire fence, bears E. and W.
- 22.50 Slope changes to NE.; desc. 211 ft.
- 24.40 Irrigation ditch, 5 ft. wide, 2 ft. deep, course SE.
- 29.90 Irrigation ditch, 6 ft. wide, 2 ft. deep, course SE.
- 31.30 Road, bears SE. and NW.; end of descent.
- 33.40 Irrigation ditch, 4 ft. wide, 2 ft. deep, course SE., enter undergrowth.
- 34.80 Irrigation ditch, 8 ft. wide, 2 ft. deep, course SE.; timber becomes scattering.
- 40.25 Proportional distance:

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for  $\frac{1}{4}$  sec. cor., with brass cap mkd.

$\frac{1}{4}$	
S 12	S 7
1937	

## Resurvey of the W. Bdy. of T. 8 N., R. 29 E.

BOOK 4147

Chains

from which

A locust, 14 ins. diam., bears S.  $47\frac{1}{4}^{\circ}$  W., 97 lks. dist., mkd.  $\frac{1}{4}$  S 12 B T.

A locust, 14 ins. diam., bears N.  $88\frac{1}{2}^{\circ}$  W., 72 lks. dist., mkd.  $\frac{1}{4}$  S 12 B T.

The center of the foundation of an old house, bears S.  $70^{\circ}$  W., 120 lks. dist.

No available E. bearing tree.

41.50 Right bank of swampy bottom of the Little Colorado River, course S.  $60^{\circ}$  E.

50.50 Center of the Little Colorado River, 20 ft. wide, 3 ft. deep, course S.  $60^{\circ}$  E., about 1 ch. dist., thence S., 5 chs. dist., thence SE.

52.40 Irrigation ditch, 3 ft. wide, 2 ft. deep, course E.

53.40 Left bank of swampy bottom of the Little Colorado River, 35 ft. high, course SE.; thence over level land.

61.83 5 strand barbed wire fence, parallels highway.

62.35 State highway No. 73, bears N.  $77\frac{1}{2}^{\circ}$  E. to Springerville, and S.  $77\frac{1}{2}^{\circ}$  W. to Mc Nary.

62.79 5 strand barbed wire fence, parallels highway.

67.65 4 strand barbed wire fence, bears NW. and SE.

68.00 Irrigation ditch, 6 ft. wide, 1 ft. deep, course N.  $70^{\circ}$  E.

80.50 The cor. of secs. 1, 6, 7 and 12, which is a lava stone, 12x10x8 ins., set in a mound of stone, 3 ft. base, 1 ft. high, mkd. with 1 notch on the N. edge, and 5 notches on the S. edge.

At point for cor., with the original stone set alongside.

Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base, 16 ins. high, for cor. of secs. 1, 6, 7 and 12, with brass cap mkd.

T8H	
R28E	R29E
S 1	S 6
S 12	S 7
1937	

Land, rolling.

Soil, dark loam and rocky, 3d rate.

Timber, yellow pine, juniper and pinon on S.  $\frac{1}{2}$  mile; undergrowth, arrow weed and willows.

## Resurvey of the W. Bdy. of T. 8 N., R. 29 E.

Chains	<p>N. <math>0^{\circ} 36'</math> W., on true line bet. secs. 1 and 6.</p> <p>Over rocky, level land.</p> <p>4.10 Shallow drain, course NE.</p> <p>32.00 Land becomes less rocky.</p> <p>38.35 Proportional distance:</p> <p>Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for <math>\frac{1}{4}</math> sec. cor., with brass cap mkd.</p> <div style="text-align: center;"> <math>\frac{1}{4}</math>  S 1   S 6  1937 </div> <p>raise a mound of stone, 4 ft. base, <math>2\frac{1}{2}</math> ft. high, W. of cor.</p> <p>53.50 Old road, bears NW. and SE.</p> <p>76.70 Intersect the second standard parallel north at the closing cor. of Tps. 8 N., Rs. 28 and 29 E., described in the field notes of the second standard parallel north, thru a portion of ranges 28 and 29 E., resurveyed under this group.</p> <p>From point of intersection the standard cor. of secs. 35 and 36, T. 9 N., R. 28 E., bears N. <math>89^{\circ} 05'</math> W., 23.98 chs. dist., described in the field notes of the second standard parallel north, thru a portion of ranges 28 and 29 E., resurveyed under this group.</p> <p>From the same point the standard <math>\frac{1}{4}</math> sec. cor. on the S. bdy. of sec. 36, T. 9 N., R. 28 E., bears S. <math>89^{\circ} 05'</math> E., 15.99 chs. dist., described in the field notes of the second standard parallel north, thru a portion of ranges 28 and 29 E., resurveyed under this group.</p> <p>Land, level. Soil, sandy loam and rocky, 2nd to 4th rate. Timber, none; undergrowth, none.</p>
	<p style="text-align: center;"><u>FINAL TEST OF SOLAR ATTACHMENT.</u></p> <p>July 25, 1937: In the NW. <math>\frac{1}{4}</math> of sec. 28, T. 8 N., R. 29 E., 9 a.m., app. time, I set off <math>34^{\circ} 04'</math> N., on the lat. arc; <math>19^{\circ} 40'</math> N., on the decl. arc; and orient the instrument with the solar; the line of sight agrees with the meridian established by Polaris observation.</p> <p>At app. noon, with the lat. arc unchanged, I observe the sun on the meridian; the resulting reading of the declination arc is <math>19^{\circ} 38'</math> N., which agrees with the computed declination.</p> <p>At 3 p.m.; app. time, I set off <math>34^{\circ} 04'</math> N., on the lat. arc; <math>19^{\circ} 37'</math> N. on the decl. arc; and repeat the test of the solar; the line of sight agrees with the meridian established by Polaris observation.</p>

4-680  
(Revised May 1934)

BOOK 4147

### FIELD ASSISTANTS

NAMES	CAPACITY
Norton B. Stephenson	Principal Assistant
Ellis W. Murphy	Chainman
Bithel L. Sizemore	Flagman
Edwin Forbes Gutzman	Axman
George Erhardt, Jr.	Axman
William J. Martin	Axman
Raymond S. Davis	Axman
Roy M. Clifton	Axman

36  
20

*Original*

BOOK 4147

CERTIFICATE OF ~~UNITED STATES~~ SURVEYOR

I, Roger F. Wilson, Surveyor, <sup>General Land Office</sup>, HEREBY CERTIFY upon honor that, in

pursuance of special instructions bearing date of the 18th day of June, 1937,  
received from the district cadastral engineer for Arizona, with assignment  
instructions dated July 6, 1937, I have ~~surveyed~~ <sup>re</sup> independently resurveyed the  
East and West boundaries of Township 8 North, Range 29 East,

of the Gila and Salt <sup>River</sup> 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  
<sup>re</sup> 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,  
May 19, 1938

*Roger F. Wilson*  
Surveyor, General Land Office

CERTIFICATE OF APPROVAL

OFFICE OF ~~U.S.~~ SUPERVISOR OF SURVEYS,  
Denver, Colorado, July 18, 1938.

The foregoing field notes of the ~~survey of~~ <sup>re</sup> dependent resurvey of the East and West  
boundaries of Township 8 North, Range 29 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 June 18, 1937, and assignment  
instructions dated July 6, 1937, having been critically examined, and  
the necessary corrections made prior to their certification by the engineer, the said field notes, and the <sup>re</sup> survey  
therein described, are hereby approved.

*Wm. A. Brown*  
U.S. 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.

~~U.S. Supervisor of Surveys.~~