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(April 1933)

Original

Book I

BOOK 4285

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GENERAL LAND OFFICE

BOOK 4285

# FIELD NOTES

OF THE

Survey and Resurvey of a Portion of the Subdivisional Lines,

Completing the Subdivision of Township 5 South, Range 4 West,

4285

Of the Gila and Salt River Meridian,

In the State of Arizona

### EXECUTED BY

Ty White Assistant Cadastral Engineer  
and

Claude F. Warner Assistant Cadastral Engineer.

Under special instructions dated December 1, 1941, which provided  
for the surveys included under Group No. 229, bearing the approval of the  
Commissioner of the General Land Office under date of January 13, 1942  
and assignment instructions dated November 23, 1942.

Survey commenced December 8, 1942.

Survey completed January 6, 1943.

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# INDEX DIAGRAM.

Township 5 South, Range 4 West.

|        |        |    |    |    |        |
|--------|--------|----|----|----|--------|
| 6<br>4 | 3<br>5 | 4  | 3  | 2  | 1<br>3 |
| 7<br>/ | 2<br>8 | 9  | 10 | 11 | 12     |
| 18     | 17     | 16 | 15 | 14 | 13     |
| 19     | 20     | 21 | 22 | 23 | 24     |
| 30     | 29     | 28 | 27 | 26 | 25     |
| 31     | 32     | 33 | 34 | 35 | 36     |

## Chains

The survey and resurvey herein described were executed with Buff solar transits Nos. 16724 and 9984.

For description and tests of instruments and equipment, method of survey, and observations on Polaris for azimuth and latitude, see the field notes of part of the S. bdy. of T. 4 S., R. 4 W., dependently resurveyed under this group.

Preliminary to the resurvey, the lines of the original survey are retraced and diligent search is made for all original corners. Identified corners of the original survey are reestablished in their original positions. All lost corners are reestablished by an appropriate method, based on the record of the original survey. The retracement data are thoroughly verified and only the true line notes are given here.

Part of the subdivisional and exterior lines of T. 5 S., R. 4 W. were surveyed by S. W. Foreman, U. S. Deputy Surveyor, in 1871. The lines bet. secs. 5 and 6, and 7 and 8, were retraced by W. M. Breakenridge, U. S. Deputy Surveyor, in 1890, at which time he reestablished the cor. of secs. 5, 6, 31 and 32, on the N. bdy. of the Tp. This cor. was remonumented with an iron post by K. L. Siebecker, U. S. Surveyor, in 1931.

Dependent Resurvey of the Subdivisional Lines  
of T. 5 S., R. 4 W.

From the cor. of secs. 7, 12, 13, and 18, on the W. bdy. of the Tp., described in the field notes of part of the W. bdy. of T. 5 S., R. 4 W. surveyed and resurveyed under this group.

N. 89° 54' E., on a true line, bet. secs. 7 and 18.

Over nearly level land, across the old bed of the Gila River.

40.30 Proportional distance.

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  $\frac{1}{4}$  sec. cor., with brass cap mkd.

$$\frac{S 7}{\frac{1}{4} S 18} \\ 1943$$

from which

A mesquite, 4 ins. diam., bears N. 41 $\frac{1}{4}$ ° W., 267 lks. dist., mkd.  $\frac{1}{4}$  S 7 B T.

A mesquite, 5 ins. diam., bears S. 52° W., 296 lks. dist., mkd.  $\frac{1}{4}$  S 18 B T.

56.30 Left bank of the old bed of the Gila River, bears N. 45° E. and S. 45° W.; thence across bottom land.

68.20 Wash, 40 lks. wide, 2 ft. deep, course N. 10° W.

Dependent Resurvey of the Subdivisional Lines of  
T. 5 S., R. 4 W.

Chains

76.50 Dim road, bears N. and S.

81.00 The point for the cor. of secs. 7, 8, 17 and 18, as determined from an original bearing tree.

At point for cor.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, for cor. of secs. 7, 8, 17 and 18, with brass cap mkd.

|          |      |
|----------|------|
| T5S, R4W |      |
| S 7      | S 8  |
| -----    |      |
| S 18     | S 17 |
| 1942     |      |

from which

Old bearing tree:

A mesquite, 20 ins. diam., bears N.  $21\frac{1}{2}^{\circ}$  W., 38 lks. dist., mkd. S VII. Other marks not legible. No evidence of SW. bearing tree.

New bearing trees:

A mesquite, 10 ins. diam., bears N.  $18\frac{1}{2}^{\circ}$  E., 74 lks. dist., mkd. T 5 S R 4 W S 8 B T.

A mesquite, 18 ins. diam., bears S.  $77\frac{1}{2}^{\circ}$  E., 139 lks. dist., mkd. T 5 S R 4 W S 17 B T.

A mesquite, 8 ins. diam., bears S.  $72^{\circ}$  W., 45 lks. dist., mkd. T 5 S R 4 W S 18 B T.

A mesquite, 10 ins. diam., bears N.  $30^{\circ}$  W., 59 lks. dist., mkd. T 5 S R 4 W S 7 B T.

The remains of the old Gila Station House, bears N.  $84^{\circ}$  E., 4.50 chs. dist.

Land, nearly level:

Soil, in old river bed, sand and gravel, 4th rate; in bottom land, sandy loam, 1st rate.

Timber, in bottom land, mesquite; undergrowth, in river bed, rabbit brush.

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N..0° 06' E., on a true line, bet. secs. 7 and 8.

Over nearly level land, thru dense mesquite.

19.70 Left bank of the old bed of the Gila River, 10 ft. high, bears N.  $45^{\circ}$  E. and S.  $45^{\circ}$  W.

39.98 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 7           | S 8 |
| -----         |     |
| 1942          |     |

from which

A mesquite, 5 ins. diam., bears S.  $20\frac{1}{2}^{\circ}$  E., 198 lks. dist., mkd.  $\frac{1}{4}$  S 8 B T.

Dependent Resurvey of the Subdivisional Lines of  
T. 5 S., R. 4 W.

## Chains

A mesquite, 4 ins. diam., bears N.  $14\frac{1}{2}^{\circ}$  W., 52 lks. dist., mkd.  $\frac{1}{4}$  S 7 B T.

46.40 Left bank of the channel of the Gila River, 10 ft. high, bears E. and W.

51.40 Right bank of the channel of the Gila River, 10 ft. high, bears E. and W.

72.20 Right bank of the old bed of the Gila River, bears SW. and NE.

79.96 At this point, determined by the method of double proportion.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, for the cor. of secs. 5, 6, 7 and 8, with brass cap mkd.

|      |     |
|------|-----|
| T5S  | R4W |
| S 6  | S 5 |
| S 7  | S 8 |
| 1942 |     |

from which

A mesquite, 12 ins. diam., bears N.  $57\frac{3}{4}^{\circ}$  E., 177 lks. dist., mkd. T 5 N R 4 W S 5 B T.

A mesquite, 14 ins. diam., bears S.  $16\frac{1}{2}^{\circ}$  E., 19 lks. dist., mkd. T 5 S R 4 W S 8 B T.

A mesquite, 8 ins. diam., bears S.  $43\frac{1}{4}^{\circ}$  W., 31 lks. dist., mkd. T 5 S R 4 W S 7 B T.

A mesquite, 8 ins. diam., bears N.  $71\frac{1}{4}^{\circ}$  W., 212 lks. dist., mkd. T 5 S R 4 W S 6 B T.

From this cor., the cor. of secs. 1, 6, 7 and 12, on the E. bdy. of the Tp., bears S.  $89^{\circ} 58'$  E., 399.53 chs. dist.; an iron post, 2 ins. diam., 12 ins. above ground, firmly set, mkd. and witnessed as described in the official record.

Land, nearly level.

Soil, in river bed, sand and gravel, 4th rate; in bottom land, sandy loam, 1st rate.

Timber, mesquite; undergrowth, in riverbed, rabbit brush.

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N.  $0^{\circ} 49'$  W., on a true line bet. secs. 5 and 6.

Over nearly level land; thru scattered timber; asc. gradual SE. slope.

0.30 Leave bottom land, bears N.  $60^{\circ}$  E. and S.  $60^{\circ}$  W.

3.00 Top of ascent, descend a gradual NE. slope.

9.70 Dim road, bears S.  $60^{\circ}$  W. and N.  $60^{\circ}$  E.

16.00 Enter bottom land and dense mesquite thicket, bears N.  $10^{\circ}$  W. and S.  $10^{\circ}$  E.

20.00 Recross road, bears N.  $20^{\circ}$  W. and S.  $20^{\circ}$  E.

39.98 Proportional distance.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the

Dependent Resurvey of the Subdivisional Lines of  
T. 5 S., R. 4 W.

Chains.

ground, for  $\frac{1}{4}$  sec. cor., with brass cap mkd.

$$\begin{array}{c} \frac{1}{4} \\ \uparrow \\ \text{S } 6 \mid \text{S } 5 \\ \downarrow \\ 1943 \end{array}$$

from which

A mesquite, 8 ins. diam., bears S.  $82\frac{1}{4}^{\circ}$  E., 24 lks. dist., mkd.  $\frac{1}{4}$  S 5 B T.

A mesquite, 8 ins. diam., bears S.  $23^{\circ}$  W., 102 lks. dist., mkd.  $\frac{1}{4}$  S 6 B T.

Continue thru dense mesquite thicket.

79.96 The cor. of secs. 5, 6, 31 and 32, on the N. bdy. of the Tp.; an iron post, 2 ins. diam., 12 ins. above ground, firmly set, mkd. and witnessed as described in the official record.

Land, nearly level.

Soil, S. 20 chs. rocky and gravelly, 4th rate; remainder of mile, sandy loam, 1st rate.

Timber, dense mesquite; undergrowth, none.

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Dependent Resurvey and Survey of the Subdivisional Lines  
of T. 5 S., R. 4 W.  
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From the cor. of secs. 5, 6, 7 and 8.

N.  $88^{\circ} 46'$  W., on a true line bet. secs. 6 and 7.

Over rolling land, thru scattered timber; asc. 103 ft. over a gradual SE. slope.

3.70 Dim road, bears N.  $20^{\circ}$  E. and S.  $20^{\circ}$  W.

9.70 Wash, 10 lks. wide, course S.  $10^{\circ}$  E.

10.00 Ascend over a rocky S. slope.

15.80 Wash, 10 lks. wide, course S.  $10^{\circ}$  E.

23.50 Spur, slopes S.; desc. over a W. slope.

31.80 Spur, slopes S.  $10^{\circ}$  E.; descend over a W. slope.

36.70 Ravine, course S.  $20^{\circ}$  E.

39.97 The  $\frac{1}{4}$  sec. cor.; a granite stone 18x10x8 ins., in a scattered mound of stone, faintly mkd.  $\frac{1}{4}$ .

At point for cor.

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  $\frac{1}{4}$  sec. cor., with brass cap mkd.

$$\begin{array}{c} \text{S } 6 \\ \frac{1}{4} \text{---} \\ \text{S } 7 \\ 1942 \end{array}$$

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

Dependent Resurvey and Survey of the Subdivisional Lines  
of T. 5 S., R. 4 W.

| Chains |   |
|--------|---|
|        | Thence,   |
|        | West, on a true line bet. secs. 6 and 7.  |
|        | Over mountainous land; asc. 184 ft. over a rocky E. slope.  |
| 1.00   | Ravine, course S. 80° E.  |
| 12.30  | Spur, slopes S. 60° E. from N. 10° W.; asc. 16 ft. across a small ravine, course SE.  |
| 14.10  | Spur, slopes S. 10° W.; desc. 29 ft. over a NW. slope.  |
| 19.00  | Ravine, course S. 40° W.; asc. 64 ft. over a SE. slope.   |
| 21.90  | Spur, slopes SE.; desc. 27 ft. over a SW. slope.  |
| 23.70  | Ravine, course S. 10° E.; asc. 144 ft. over a NE. slope.  |
| 28.20  | Main ridge of the Gila Bend Mountains, bears N. 20° W. and S. 20° E.; desc. 106 ft. over a SW. slope.   |
| 33.70  | Ravine, course N. 10° E.; asc. 34 ft. over an E. slope.   |
| 35.10  | Spur, slopes N. 10° W.; desc. 96 ft. over a SW. slope.  |
| 41.23  | The cor. of secs. 1, 6, 7 and 12 on the W. bdy. of the Tp. described in the field notes of part of the W. bdy. of T. 5 S., R. 4 W., resurveyed and surveyed under this group. |

Land, mountainous.  
Soil, rocky and gravelly, 3rd and 4th rates.  
Timber, palo verde; undergrowth, none.

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Final Test of Solar Attachments.  
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January 6, 1943, in camp in the NE.  $\frac{1}{4}$  of sec. 31, T. 5 S., R. 4 W., we test the solar attachments by comparing their indications hourly with the meridian established by Polaris observation on November 29, 1942, described in the field notes of part of the S. bdy. of T. 4 S., R. 4 W., resurveyed under this group.

At 9:00 a.m. app. t., we set off 32° 57'.5 N. on the lat. arcs; 22° 30' 41" S. on the decl. arcs, and determine a meridian with the solar.

At app. noon, with the lat. arcs unchanged, we observe the sun on the meridian; the resulting reading of the decl. arcs is 22° 30' 27" S. which agrees with the computed declination of the sun.

At 3:00 p.m. app. t., with the lat. arcs unchanged, we set off 22° 29' 00" S. on the decl. arcs, and determine a meridian with the solar.

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

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General Description.  
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The W.  $\frac{1}{2}$  of sec. 6 and the NW.  $\frac{1}{4}$  of sec. 7, T. 5 S.,

R. 4 W. are located on the E. slope of the Gila Bend Mountains. The E.  $\frac{1}{2}$  of sec. 6, and the NE.  $\frac{1}{4}$ , SE.  $\frac{1}{4}$ , and SW.  $\frac{1}{4}$  of sec. 7, are located in the bottom land and old river bed of the Gila River. The part of these sections located on the slopes of the mountains have soil which is rocky and gravelly of 3rd and 4th rates; the part in the river bottom has soil of sandy loam, 1st rate and in the river bed sand and gravel, 4th rate.

The channel of the Gila River enters sec. 7 about 9 chs. N. of the  $\frac{1}{4}$  sec. cor. of secs. 7 and 8, coursing southwest thru the section, leaving it about 5 chs. N. of the cor. of secs. 7, 12, 13 and 18. On the line bet. secs. 7 and 8, the old bed of the Gila River is 52 chs. wide, and on the line bet. secs. 7 and 12 on the W. bdy. of the Tp. it is 34 chs. wide.

Due to dams constructed by the U. S. Reclamation Service on the Gila River and its tributaries above this location, the channel of the river is generally dry.

The average elevation of these sections is about 1400 ft. above sea level.

The general direction of the drainage is southeast.

There were no indications of mineral observed in either of these sections, during the progress of the survey.



4-680  
(Revised May 1934)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GENERAL LAND OFFICE

FIELD ASSISTANTS

| NAMES               | CAPACITY            |
|---------------------|---------------------|
| Mark A. Darrow, Jr. | Principal Assistant |
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| Ralph L. Lee        | Chainman            |
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| Roy West            | Flagman             |
| Gladwin Gregory     | "                   |
| George C. Collier   | "                   |
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BOOK 4285

CERTIFICATE OF SURVEYOR

We, Ty White, Assistant Cadastral Engineer, and Claude F. Warner, Assistant Cadastral Engineer, Gen. Land Office HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 1st day of December, 1941 received from the district cadastral engineer for Arizona, with assignment and resurveyed instructions dated November 23, 1942 we have surveyed a portion of the subdivisional lines, completing the subdivision of Township 5 South, Range 4 West,

Gila and Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by us and under our direction; and that said and resurvey 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, Calif., May 29, 1943. Nevada City, Calif. July 12, 1943

Ty White Assistant Cadastral Engineer Claude F. Warner Assistant Cadastral Engineer General Land Office

CERTIFICATE OF APPROVAL

OFFICE OF SUPERVISOR OF SURVEYS, Denver, Colorado, January 28, 1944.

and resurvey The foregoing field notes of the survey of a portion of the subdivisional lines, completing the subdivision of Township 5 South, Range 4 West, of the Gila and Salt River Meridian, in the State of Arizona,

executed by Ty White, Assistant Cadastral Engineer, and Claude F. Warner, Assistant Cadastral Engineer, General Land Office, under special instructions dated December 1, 1941, and assignment instructions dated November 23, 1942, 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.

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.