

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
~~GENERAL LAND OFFICE~~  
Bureau of Land Management

LC 4868

Original

# FIELD NOTES

Of the Dependent Resurvey of a Portion of the South and West Boundaries

and

The Survey of a Portion of the Subdivisional Lines

of

Township 4 South, Range 5 West

Of the Gila and Salt River Meridian,

In the State of Arizona

## EXECUTED BY

Ty White and Claude F. Warner, Cadastral Engineers

Under special instructions dated January 11, 1949, which provided for the surveys included under Group No. 262, bearing the approval of the Director, Bureau of Land Management ~~Commissioner of the General Land Office~~ under date of January 18, 1949 and assignment instructions dated February 25, 1949.

Survey commenced March 16, 1949

Survey completed March 18, 1949

1A 127

BOOK 4368

# INDEX DIAGRAM.

Township 4 South, Range 5 West

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1 B

T. 4 S., R. 5 W.

The south three miles of the west boundary of township 4 south, range 5 west of the Gila and Salt River meridian, Arizona were originally surveyed by W. M. Breckenridge, Deputy Surveyor, in 1890. The south two miles thereof were retraced by L. D. Chillson, Deputy surveyor, in 1892. The west three miles of the south boundary were originally surveyed by S. W. Foreman, Deputy Surveyor, in 1871. The following field notes are those of the dependent resurvey of the south three miles of the west boundary and the west three miles of the south boundary, and the survey of a portion of the subdivisional lines of the township.

Preliminary to the resurvey the lines of the original survey are retraced and diligent search made for all corner monuments and other calls of the record. Identified corners are monumented in their original positions, lost corners are reestablished and remonumented at proportionate positions based upon the original record. The retracement data are thoroughly verified and only the true line field notes are given herein.

The survey was executed with light mountain solar transits made by Buff and Buff Co., serial numbers 16724 and 23816, both constructed in accordance with the standard specification of the General Land Office. The instruments were in good condition and were placed in satisfactory adjustment prior to beginning the survey.

All azimuths in this record were determined by solar transit method. The measurements were made with narrow steel tapes, five chains in length, graduated to tenths of a link for the first ten links, every link for the remainder of the first 100 links, and the balance at intervals on ten links. The tapes were tested by comparison with a one chain standard tape and found correct. The measurements were made on the slope and the vertical angle of each interval ascertained by a clinometer in good adjustment; the horizontal equivalents only are entered in this field note record.

From data furnished with the special instructions, the southeast corner of section 33 is determined to be in latitude  $33^{\circ} 02'$  north and longitude  $112^{\circ} 46'$  west.

March 18, 1949, at camp in the NE  $\frac{1}{4}$  of sec. 31, T. 5 S., R. 4 W., G. and S. R. meridian, at 6h 13m 06s p.m., l.m.t., I made an hour angle observation of Polaris for azimuth. The mean horizontal angle counterclockwise to Polaris from the reference point was  $0^{\circ} 42' 30''$ . The bearing of the reference point was calculated to be N.  $0^{\circ} 19' 42''$  W.

The solar transits were tested on a meridian during the usual hours of operation and found to have a maximum error of azimuth of less than  $1' 30''$ .

The mean observed magnetic declination is  $15^{\circ}$  E.

Chains

Dependent Resurvey of a Portion of the South Boundary,  
T. 4 S., R. 5 W., Gila and Salt River Meridian, Arizona

Reestablishment of the survey executed by  
S. W. Foreman, Deputy Surveyor, in 1871.

At the point for the cor. of secs. 33 and 34 only, T. 4 S., R. 5 W., which is 240.00 chs. dist. from the SE. cor. of the T.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, with brass cap mkd.

T4SR5W  
S33 | S34

S4  
T5SR5W  
1949

Dependent Resurvey of a Portion of the S. Bdy., T. 4 S., R. 5 W.

Chains	
	<p>Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.</p> <p>From this corner, the cor. of secs. 3 and 4 only, T. 5 S., R. 5 W., which is monumented with a regulation iron post, 2 ins. diam., conforming to the official record, bears East, 3.09 chs. dist.</p> <p>Thence</p> <p>West, along the S. bdy. of sec. 33</p> <p>Over mountainous land, through scattering timber and undergrowth. Descend 40 ft. over a W. slope.</p>
8.90	Wash, 50 lks. wide, 3 ft. deep, drains S. Ascend E. slope 109 ft.
19.90	Spur, slopes S. 20° E. Descend W. slope 37 ft.
25.40	Ravine, drains S. Ascend E. slope 21 ft.
31.90	Spur, slopes S. 40° W. Descend NW. slope 17 ft.
36.91	<p>Point for the <math>\frac{1}{4}</math> sec. cor. of sec. 4 only of T. 5 S.</p> <p>Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;"><u><math>\frac{1}{4}</math> S4</u> 1949</p> <p>Raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.</p>
40.00	<p>Point for the <math>\frac{1}{4}</math> sec. cor. of sec. 33 only.</p> <p>Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to bedrock, with brass cap mkd.</p> <p style="text-align: center;"><u><math>\frac{1}{4}</math> S33</u> 1949</p> <p>Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.</p> <p>Descend W. slope 87 ft.</p>
46.90	Foot of slope. Thence over rolling land.
76.91	<p>Point for the cor. of secs. 4 and 5 only of T. 5 S.</p> <p>Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T4S R5W S33</p> <hr style="width: 50%; margin: auto;"/> <p style="text-align: center;">S5 S4 T5S R5W 1949</p>
80.00	<p>Raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.</p> <p>Point for the cor. of secs. 32 and 33 only.</p> <p>Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground to bedrock, with a malpais stone, mkd. X, buried alongside, and brass cap mkd.</p> <p style="text-align: center;">T4S R5W S32 S33</p> <hr style="width: 50%; margin: auto;"/> <p style="text-align: center;">S5 T5S R5W 1949</p> <p>Land, east 46 chains, mountainous; remainder, rolling.</p>

## Dependent Resurvey of a Portion of the S. Bdy., T. 4 S., R. 5 W.

## Chains

Soil, rocky and gravelly.  
Timber, palo verde; undergrowth, greasewood.

West, along the S. bdy. of sec. 32.

Over rolling land, through scattering timber.

7.90 Left bank of a wash, bears N. and S.

15.90 Right bank of wash, bears N. and S.

30.90 Wash, 30 lks. wide, drains S.

36.91 Point for the  $\frac{1}{4}$  sec. cor. of sec. 5 only of T. 5 S.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd.

$\frac{1}{4}$  S5  
1949

Raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.

40.00 Point for the  $\frac{1}{4}$  sec. cor. of sec. 32 only.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd.

$\frac{1}{4}$  S32

1949

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

53.70 Wash, 50 lks. wide, 2 ft. deep, drains S.

67.90 Wash, 50 lks. wide, 2 ft. deep, drains S.

76.91 Point for the cor. of secs. 5 and 6 only of T. 5 S.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, with brass cap mkd.

T4S R5W  
S32

S6 | S5  
T5S R5W  
1949

Dig pits, 18x18x12 ins., SE. and SW. of cor., 3 ft. dist.

80.00 Point for the cor. of secs. 31 and 32 only.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, with brass cap mkd.

T4S R5W  
S31 | S32

S6  
T5S R5W  
1949

Dig pits, 18x18x12 ins., NE. and NW. of cor., 3 ft. dist.

Land, rolling.

Soil, rocky and gravelly.

Timber, palo verde; undergrowth, greasewood.

West, along the S. bdy. of sec. 31.

## Dependent Resurvey of a Portion of the S. Bdy., T. 4 S., R. 5 W.

Chains

- Over rolling land, through scattering timber and undergrowth.
- 6.90 Leave rolling land, bears NW. and SE.; enter bottom land of the Gila River, through dense mesquite thicket.
- 19.90 Unimproved road, bears N. 10° W., and S. 10° E.
- 36.91 Point for the  $\frac{1}{4}$  sec. cor. of sec. 6 only of T. 5 S.
- Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd.
- $\frac{1}{4}$  S6  
1949
- Raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.
- 40.00 Point for the  $\frac{1}{4}$  sec. cor. of sec. 31 only.
- Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd.
- $\frac{1}{4}$  S31  
1949
- Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
- 61.50 Leave mesquite thicket, bears S. and N. 70° W. Thence across cleared land along the S. side of a wire fence.
- 71.80 Wire fence, bears N. 80° E. and S. 80° W.
- 76.48 The cor. of Ts. 4 and 5 S., Rs. 5 and 6 W., which is monumented with a regulation iron post, 3 ins. diam., conforming to the official record.
- Land, east 7 chs., rolling; remainder, nearly level bottom land.  
Soil, east 7 chs., rocky and gravelly; remainder, sandy loam.  
Timber, mesquite and palo verde; undergrowth, greasewood.

Dependent Resurvey of a Portion of the W. Bdy., T. 4 S., R. 5 W.  
Reestablishment of the survey executed by  
W. M. Breckenridge, Deputy Surveyor, in 1890.

- From the cor. of Ts. 4 and 5 S., Rs. 5 and 6 W.
- N. 0° 03' W., bet. secs. 31 and 36.
- Over nearly level bottom land of Gila River.
- 19.00 Enter cultivated fields, bears NW. and SE.
- 38.40 Leave cultivated field, bears NW. and SE.
- 38.80 Ranch road, bears NW. and SE.
- 40.15 Point for the  $\frac{1}{4}$  sec. cor. of secs. 31 and 36, at proportionate dist., there is no remaining evidence of the original corner.
- Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd.

$\frac{1}{4}$   
S36 | S31  
1949

from which

An iron post, 3 ft. long, 1 in. diam., set 28 ins. in the ground, for a reference monument, bears N. 76 $\frac{1}{2}$ ° E., 3 chs. dist., with brass cap mkd.  $\frac{1}{4}$  S31 RMI and an arrow pointing to the corner.

## Dependent Resurvey of a Portion of the W. Bdy., T. 4 S., R. 5 W.

Chains

An iron post, 3 ft. long, 1 in. diam., set 28 ins. in the ground, for a reference monument, bears S.  $76\frac{1}{2}^{\circ}$  E., 3 chs. dist., with brass cap mkd.  $\frac{1}{4}$  S31 RM2 and an arrow pointing to the cor.

Leave bottom land, bears E. and W.; enter rolling desert land through scattering timber and undergrowth.

59.40 Wire fence, bears N.  $20^{\circ}$  W., and S.  $20^{\circ}$  E.

64.10 Left bank of wash, bears NE. and SW.

75.10 Right bank of wash, bears NE. and SW.

80.30 The cor. of secs. 25, 30, 31, and 36, which is monumented with a mesquite post, 2 ft. long, 3 ins. square, firmly set in a mound of stone,  $2\frac{1}{2}$  ft. base, 1 ft. high. Markings on post not legible.

At the corner point

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, with brass cap mkd.

T4S	
R6W	R5W
S25	S30
1949	
S36	S31

Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. with the original monument inverted and set alongside.

Land, south  $\frac{1}{4}$ , nearly level bottom; remainder, rolling.

Soil, south  $\frac{1}{4}$ , sandy loam; remainder rocky and gravelly.

Timber, mesquite, palo verde, and iron wood; undergrowth, greasewood.

N.  $0^{\circ} 03'$  E., bet. secs. 25 and 30.

Over rolling land through scattering timber and undergrowth.

39.97 Point for the  $\frac{1}{4}$  sec. cor. of secs. 25 and 30, at proportionate dist., there is no remaining evidence of the original corner.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd.

$\frac{1}{4}$	
S25	S30
1949	

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

52.00 Wash, 5 lks. wide, drains SW.

79.94 Point for the cor. of secs. 19, 24, 25, and 30, at proportionate dist., there is no remaining evidence of the original corner.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, with brass cap mkd.

T4S	
R6W	R5W
S24	S19
1949	
S25	S30

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

Land, rolling.

Soil, rocky and gravelly.

Timber, palo verde and iron wood; undergrowth, greasewood.

Dependent Resurvey of a Portion of the W. Bdy., T. 4 S., R. 5 W.

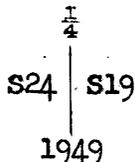
Chains

N. 0° 03' E., bet. secs. 19 and 24.  
Over rolling land through scattering timber and undergrowth. General direction of the drainage is SW.

31.10 Road, bears SW. to Citrus Valley and NE. to Gillespie Dam.

39.97 Point for the  $\frac{1}{4}$  sec. cor. of sec. 19 and 24, at proportionate dist., there is no remaining evidence of the original corner.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd.



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

42.00 Wash, 40 lks. wide, drains S. 70° W.

79.94 Point for the cor. of secs. 13, 18, 19, and 24, as determined from the witness monument, a regulation iron post, 2 ins. diam., conforming to the official record, which bears North, 1.00 ch. dist.

Land, rolling.  
Soil, rocky and gravelly.  
Timber, palo verde and iron wood; undergrowth, greasewood.

Subdivision of a Portion of T. 4 S., R. 5 W.

From the cor. of secs. 32 and 33, on the S. bdy. of the T.

N. 0° 02' W., bet. secs. 32 and 33.

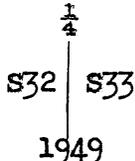
Over rolling land through scattering timber and undergrowth.

17.30 Wash, 2 ch. wide, drains SW.

32.30 Wash, 30 lks. wide, drains SW.

40.00 Point for the  $\frac{1}{4}$  sec. cor. of secs. 32 and 33.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd.

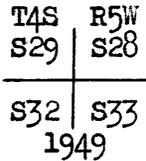


Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

54.90 Wash, 30 lks. wide, drains SW.

80.00 Point for the cor. of secs. 28, 29, 32, and 33.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, with brass cap mkd.



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

Land, rolling.  
Soil, rocky and gravelly.

## Subdivision of a Portion of T. 4 S., R. 5 W.

## Chains

Timber, palo verde; undergrowth, greasewood.

From the cor. of secs. 31 and 32, on the S. bdy. of the T.

N. 0° 03' W., bet. secs. 31 and 32.

Over rolling land through scattering timber and undergrowth.

13.90 Wash, 40 lks. wide, drains SW.

40.00 Point for the  $\frac{1}{4}$  sec. cor. of secs. 31 and 32.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd.

$$\begin{array}{c} \frac{1}{4} \\ | \\ \text{S31} \quad | \quad \text{S32} \\ | \\ 1949 \end{array}$$

Dig pits, 18x18x12 ins., N. and S. of cor., 3 ft. dist.

41.40 Wash, 10 lks. wide, drains SW.

54.90 Wash, 30 lks. wide, drains SW.

63.90 Wash, 20 lks. wide, drains SW.

80.00 Point for the cor. of secs. 29, 30, 31, and 32.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, with brass cap mkd.

$$\begin{array}{c} \text{T4S} \quad \text{R5W} \\ \text{S30} \quad | \quad \text{S29} \\ \hline \text{S31} \quad | \quad \text{S32} \\ 1949 \end{array}$$

Dig pits, 18x18x12 ins., in each sec., 3 ft. dist. from corner.

Land, rolling.

Soil, gravelly.

Timber, palo verde; undergrowth, greasewood.

From the cor. of secs. 28, 29, 32, and 33.

S. 89° 58' W., bet. secs. 29 and 32.

Over rolling land through scattering timber and undergrowth.

6.40 Wash, 40 lks. wide, drains SW.

19.60 Wash, 50 lks. wide, drains SW.

32.40 Wash, 30 lks. wide, drains SW.

40.01 Point for the  $\frac{1}{4}$  sec. cor. of secs. 29 and 32.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd.

$$\begin{array}{c} \frac{1}{4} \quad \text{S29} \\ \hline \text{S32} \\ 1949 \end{array}$$

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

66.20 Wash, 30 lks. wide, drains SW.

Subdivision of a Portion of T. 4 S., R. 5 W.

Chains  
80.02

The cor. of secs. 29, 30, 31, and 32.

Land, rolling.  
Soil, rocky and gravelly.  
Timber, palo verde; undergrowth, greasewood.

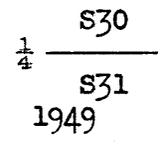
N. 89° 52' W., bet. secs. 30 and 31.

Over rolling land through scattering timber and undergrowth.

22.70 Wash, 40 lks. wide, drains S. 30° W.

40.00 Point for the 1/4 sec. cor. of secs. 30 and 31.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd.



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

51.30 Wash, 20 lks. wide, drains S. 20° W.

70.80 Wash, 2 chs. wide, drains SW.

76.56 The cor. of secs. 25, 30, 31, and 36, on the W. bdy. of the T.

Land, rolling.  
Soil, rocky and gravelly.  
Timber, palo verde; undergrowth, greasewood.

Test of Solar Orientation

March 20, 1949, at camp in the NE 1/4 of sec. 31, T. 5 S., R. 4 W., every hour from 7 to 10 a.m. and from 2 to 5 p.m., we make the proper settings on the arcs of the solar attachments and ascertain that the resulting orientation of the instruments, when compared with the meridian established by Polaris observation on March 18, 1949, have a maximum error of less than 1' 30".

General Description

The land in the southwest portion of section 31 is nearly level bottom land of the Gila River and is a sandy loam, the remainder of this section and all of section 32 is rolling land and is rocky and gravelly. The elevation above sea level is approximately 700 ft. The bottom land is covered with a dense growth of mesquite timber and the rolling land has a scattered growth of palo verde and some ironwood; the undergrowth is greasewood. The general direction of the drainage is southwesterly. A road from Citrus Valley to the Gillespie Dam on U. S. Highway No. 80 crosses the west boundary of the township about nine chains south of the 1/4 section corner of sections 19 and 24. An unimproved road runs through the southwest part of section 31.

4-680  
(August 1947)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Robert D. Stevens	Survey Aid, SP-3.
John G. Coverdale	Survey Aid, SP-3.
Daniel D. Frank	" " SP-2.
Carl P. Lyons	" " SP-2.
Conner D. Wilkerson	" " SP-2.
Raymond C. Lee, Jr.	" " SP-2.
Herman E. Wood	" " SP-2.
George Lyons, Jr.	" " SP-2.
Frank A. Mercurio	" " SP-2.
Charles S. Amohsch	" " SP-2.
Lavor C. Boggs	" " SP-2.

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BOOK 4502

### CERTIFICATE OF CADASTRAL ENGINEER

We Ty White and Claude F. Warner, HEREBY CERTIFY upon honor that, in  
 pursuance of special instructions bearing date of the 11th day of January, 1949  
 we have surveyed a portion of the subdivisional lines and dependently  
resurveyed a portion of the south and west boundaries of Township 4  
South, Range 5 West.

of the G. & S. R. Meridian, in the State of Arizona, which are  
 represented in the foregoing field notes as having been executed by ~~me~~<sup>us</sup> and under ~~my~~<sup>our</sup> direction; and that  
 said survey has been made in strict conformity with said instructions, the Manual of Instructions for the  
 Survey of the Public Lands of the United States, and in the specific manner described in the foregoing  
 field notes.

Phoenix, Arizona,  
 May 16, 1949  
 Phoenix, Arizona,  
 May 16, 1949

*Ty White*  
 Cadastral Engineer.  
*Claude F. Warner*  
 Cadastral Engineer.

### CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,  
 Washington, D. C., FEB 28 1950, 19

The foregoing field notes of the survey of a portion of the subdivisional lines  
and dependent resurvey of a portion of the south and west boundaries  
of Township 4 South, Range 5 West, of the Gila and Salt River Meridian  
of Arizona  
 executed by Ty White and Claude F. Warner  
 having been critically examined and found correct, are hereby approved.

*Daniel Clement*  
 Chief, Branch of Engineering and Construction.  
 Assistant Chief, Division  
 of Cadastral Engineering

### ~~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.~~

~~Chief, Branch of Engineering and Construction.~~