

UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE

BOOK 4286

FIELD NOTES

OF THE

Resurvey of a Portion of the South Boundary of T. 4 S., R. 4 W.,
Survey of a Portion of the North Boundary, and Survey and Resurvey
of a Portion of the East Boundary and a Portion of the Subdivisional
Lines, Completing the Subdivision of Township 5 South, Range 5 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, 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 February 1, 1941,
November 15, 1941, and
November 23, 1942.

Survey commenced December 12, 1941.

Survey completed January 5, 1943.

4286

1A

BOOK 4286

INDEX DIAGRAM.

Township 5 South, Range 5 West 31
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The survey and resurvey herein described were executed with Buff solar transits Nos. 16724 and 9984, constructed in accordance with the standard specifications of the General Land Office. The instruments were in good condition and having been placed in satisfactory adjustment prior to beginning the survey and tested and found free from appreciable error, were approved by the district cadastral engineer on September 19, 1941(16724); November 15, 1941(9984) and June 1, 1942.

The directions of the lines were determined by solar transit method. The measurements were made with Lallie steel tapes 5 chs. in length, graduated every link for the first 100 lks. and the balance at intervals of 10 lks. The tapes were tested by comparison with a Lufkin standard and found correct. The measurements were made on the slope and the vertical angles ascertained with a clinometer in good adjustment; the horizontal equivalents are entered in the field note record.

For observations on Polaris for azimuth and latitude in 1941, see the field notes of the W. bdy. of T. 3 S., R. 10 W., surveyed under this group.

The data furnished with the special instructions give the geographic position for the NE. cor. of T. 5 S., R. 5 W. as follows: latitude $33^{\circ} 01' 41''$ N., and longitude $112^{\circ} 43' 20''$ W.

November 29, 1942, in camp in the NE. $\frac{1}{4}$ of sec. 31, T. 5 S., R. 4 W., at 4h 37.7m p.m. l.m.t. or 5h 08.5m p.m. by my watch, which reads correct 105th meridian time as determined by radio signals, I make an hour angle observation on Polaris, east of the meridian, two each with the telescope in direct and reversed positions, reading the horizontal deflection angles from a well defined point on the skyline about 5 miles N., in the direction N-E to Polaris.

Mean watch time of observation, p.m.	5h 08m 30s
Mean horizontal angle from reference point to Polaris	$1^{\circ} 08' 54''$
Azimuth of Polaris	$1^{\circ} 07' 12''$
True bearing of reference point	N. $0^{\circ} 01' 42''$ W.

November 29, 1942, at the same station as above, at 4h 39m 00s p.m. l.m.t. or 5h 09m 48s by my watch, to determine the latitude of the station, I make an hour angle observation on Polaris above the pole, making two observations each with the telescope in direct and reversed positions.

Mean watch time of observation, p.m.	5h 09m 48s
Mean observed altitude	$33^{\circ} 20' 22''.5$
Reduced latitude	$32^{\circ} 57' 17''.1$ N.

December 6, 1942, every 30 minutes from 8 to 10:30 a.m. and from 1:30 to 4 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, have a maximum error of less than $1' 30''$.

We repeat the test of the arcs daily by noon observations, and verify the meridional indications at frequent intervals throughout the survey.

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 at proportionate positions, based on the record of the original survey. The retrace-ment data are thoroughly verified and only the true line notes are given herein.

 The S. and W., and part of the N. and E. boundaries and subdivisional lines of T. 5 S., R. 5 W. were surveyed by S. W. Foreman, U. S. Deputy Surveyor, in 1871. The N. two miles of the W. boundary were resurveyed by W. M. Breakenridge, U. S. Deputy Surveyor, in 1890. The W. $\frac{1}{2}$ of the S. bdy. of sec. 31, T. 4 S., R. 4 W. was surveyed and the E. $\frac{1}{2}$ of the S. bdy. of said sec. was resurveyed by K. L. Siebecker, U. S. Surveyor, in 1931. The standard cor. of Ts. 5 S., Rs. 4 and 5 W. was reestablished by D. Drummond, U. S. Deputy Surveyor, in 1891.

 The following field notes describe a survey and dependent resurvey of part of the boundaries and subdivisional lines of T. 5 S., R. 5 W., and a dependent resurvey of the W. $\frac{1}{2}$ of the S. bdy. of sec. 31, T. 4 S., R. 4 W.

 Dependent Resurvey of Part of the South Bdy. of
 T. 4 S., R. 4 W.

The $\frac{1}{4}$ sec. cor. of secs. 6 and 31 is an iron post, firmly set, mkd. and witnessed as described in the official record. Thence,
 West, on a true line along the S. bdy. of sec. 31.

Over mountainous land, thru scattered timber ; desc. 65 ft. over a NW. slope.

6.05 Ravine, course N. 50° E.; asc. 153 ft. over a NE. slope.
 19.15 Spur, slopes S. 20° E.; asc. 10 ft. over a SW. slope.
 26.25 Steep ravine, course S. 30° E.; asc. 325 ft. over a NE. slope.

38.85 Spur, slopes S. 30° E.; asc. 139 ft. across the head of a ravine, course S. 30° E.

45.15 Ridge, bears N. and S.; desc. 99 ft. along a steep S. slope.

46.53 A point 80.00 chs. easterly of the cor. of secs. 1 and 2 only, of T. 5 S., hereinafter described.

Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to bedrock, with a stone mkd. X deposited at the base, and in a mound of stone to top, for cor. of lots 1 and 2 of sec. 1 only of T. 5 S., with brass cap mkd.

2 | 1
 S1
 1942

48.36 The cor. of T. 4 S., R. 4 W. only; an iron post, 3 ins. diam., firmly set in a mound of stone, 5 ft. base, to top, with brass cap mkd.

T4S
 R4W
 S 31

1931

As this cor. also serves for T. 4 S., R. 5 W., I alter the markings to read as follows:

Dependent Resurvey of Part of the South Bdy. of
T. 4 S., R. 4 W.

4235

Chains

T4S	
R5W	R4W
S 36	S 31

S 1
T5S R5W
1942

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

Survey of Part of the North Bdy. of
T. 5 S., R. 5 W.

The cor. of Ts. 4 and 5 S., Rs. 5 and 6 W., is a mesquite post, 4 ins. square, firmly set, 14 ins. above ground, mkd. 6 notches on E. edge, other marks not legible.

At point for cor.

Set an iron post, 3 ft. long, 3 ins. diam., 28 ins. in the ground, with the original post buried alongside, for cor. of Ts. 4 and 5 S., Rs. 5 and 6 W., with brass cap mkd.

T4S	
R6W	R5W
S 36	S 31

S 1	S 6
-----	-----

T5S

1941

raise a mound

of stone, 3 ft. base, 3 ft. high, S. of cor.

At a point 239.57 chs. E. (record) of the cor. of Ts. 4 and 5 S., Rs. 5 and 6 W., set a temp. cor. of secs. 3 and 4 only of T. 5 S.

Thence

East, on a random line, setting temp. $\frac{1}{4}$ sec. and sec. cors. along the N. bdy. of T. 5 S., R. 5 W. At 236.91 chs. a point 66 lks. S. of the cor. of Ts. 4 S., Rs. 4 and 5 W.

Thence

S. 89° 50' W., on a true line, along the N. bdy. of sec. 1. Over mountainous land, thru scattered timber; asc. 279 ft. over an E. slope.

- 3.37 Trail, bears S. 10° E. to a road and N. 10° W. to a mine.
- 3.91 The SE. cor. of an unsurveyed mining claim, bears South 1.05 chs. dist.; a mound of stone, 4 ft. base, 3 ft. high.
- 4.10 The NE. cor. of same mining claim, bears N. 10° 29' W., 17.02 chs. dist.; a mound of stone, 4 ft. base, 3 ft. high.
- 4.81 A mine shaft, bears N. 40° 42' W., 12.56 chs. dist.
- 8.72 Dim trail, bears S. 10° E. and N. 10° W.
- 10.78 Spur, slopes S.; The SW. cor. of same mining claim, bears South, 2.49 chs. dist.; a mound of stone, 4 ft. base, 3 ft. high.

Survey of a Part of the North Bdy. of
T. 5 S., R. 5 W.

Chains							
11.15	Ravine, course S. 15° E.; asc. an E. slope.						
12.95	Short, rocky spur, slopes S.; desc. 103 ft. over a W. slope.						
12.99	Mouth of a mine tunnel, bears North, 9.56 chs. dist.						
17.15	Ravine, course S. 30° E.; asc. 347 ft. over an E. slope.						
26.85	Saddle in spur, slopes S.; desc. 359 ft. over a W. slope, along the bottom of a ravine, course W.						
36.25	Leave ravine, course S. 70° W.						
38.17	A point 40.00 chs. from the cor. of secs. 1 and 2 only, hereinafter described. Set an iron post, 3 ft. long, 1 in. diam., on an X mkd. on solid surface rock, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor. of sec. 1 only of T. 5 S., with brass cap mkd. <div style="text-align: center;"> <hr style="width: 10%; margin: 0 auto;"/> $\frac{1}{4}$ S 1 1942 </div>						
	Ascend a SE. slope.						
40.00	Spur, slopes S. 30° W.; desc. 259 ft. over a NW. slope.						
47.10	Ravine, course S. 40° W.; asc. 97 ft. over a SE. slope.						
55.50	Spur, slopes S.; desc. 260 ft. over a W. slope.						
64.50	Ravine, course S. 30° W.; asc. 151 ft. over a SE. slope.						
74.60	Spur, slopes S. 50° W.; desc. 51 ft. over a W. slope.						
78.17	At this point, N. 0° 01' W. from the cor. of secs. 1, 2, 11 and 12, hereinafter described. Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground to bedrock, with a stone mkd. X deposited at the base, and in a mound of stone to top, for the cor. of secs. 1 and 2 only of T. 5 S., with brass cap mkd. <div style="text-align: center;"> <hr style="width: 10%; margin: 0 auto;"/> <table style="margin: 0 auto; border-collapse: collapse;"> <tr> <td style="border-right: 1px solid black; padding: 0 5px;">S 2</td> <td style="padding: 0 5px;">S 1</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 0 5px;">T5S</td> <td style="padding: 0 5px;">R5W</td> </tr> <tr> <td colspan="2" style="text-align: center; padding: 0 5px;">1942</td> </tr> </table> </div>	S 2	S 1	T5S	R5W	1942	
S 2	S 1						
T5S	R5W						
1942							
	Land, mountainous. Soil, rocky, 3rd and 4th rates. Timber, palo verde; undergrowth, none. -----						
	S. 89° 50' W., on true line, along the N. bdy. of sec. 2. Over rolling land, thru scattered timber; desc. 113 ft. over a NW. slope.						
16.00	Ravine, course S. 50° W.; asc. 86 ft. over a SE. slope.						
23.75	Spur, slopes S. 10° W.; desc. 189 ft. over a W. slope.						
30.85	Head of a ravine, course N. 30° W.; asc. 20 ft. over a NE. slope.						
35.05	Low spur, slopes NE.; desc. 30 ft. over a N. slope.						

Survey of Part of the North Bdy. of
T. 5 S., R. 5 W.

Chains
39.95

Midway.

Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to bedrock, with a stone mkd. X deposited at the base, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor. of sec. 2 only of T. 5 S., with brass cap mkd.

 $\frac{1}{4}$ S 2
1942

Descend a gradual SW. slope.

63.05 Wash, 90 lks. wide, course SE.; asc. 95 ft. over a NE. slope.

79.90 At this point, N. 0° 01' W., from the cor. of secs. 2, 3, 10 and 11.

Set an iron post, 3 ft. long, 2 ins. diam., 16 ins. in the ground to bedrock, with a stone mkd. X deposited at the base, and in a mound of stone to top, for cor. of secs. 2 and 3 only of T. 5 S., with brass cap mkd.

S 3 | S 2
T5S | R5W
1942

Land, rolling.

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

S. 89° 50' W., on a true line along the N. bdy. of sec. 3.

Over broken and hilly land, thru scattered timber; asc. 137 ft. over a NE. slope.

5.85 Ridge, bears SE. and NW.; desc. 69 ft. over a broken SW. slope.

15.25 Foot of ascent; asc. 86 ft. over a SE. slope.

25.85 Spur, slopes SW.; desc. 160 ft. over a NW. slope.

38.84 At this point, 40.00 chs. from the cor. of secs. 3 and 4 only of T. 5 S., hereinafter described.

Set an iron post, 3 ft. long, 1 in. diam., 16 ins. in the ground to bedrock, with a stone mkd. X deposited at the base, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor. of sec. 3 only of T. 5 S., with brass cap mkd.

 $\frac{1}{4}$ S 3
1942

Descend 77 ft. over a NW. slope.

78.84 The temp. cor. of secs. 3 and 4 only, 239.57 chs. East (record) of the cor. of Ts. 4 and 5 S., Rs. 5 and 6 W.

Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground to bedrock, with a malpais stone 4x4x4 ins. mkd. X deposited at the base, and in a mound of stone to top, for cor. of secs. 3 and 4 only of T. 5 S., with brass cap mkd.

Survey of Part of the North Bdy. of
T. 5 S., R. 5 W.

Chains

S 4	S 3
T5S	R5W
1941	

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

Survey and Dependent Resurvey of Part of the West Bdy. of
T. 5 S., R. 4 W.

The standard cor. of Ts. 5 S., Rs. 4 and 5 W., is a pine post, 4 ins. square, 16 ins. above a mound of earth, mkd. S 31 on NE. and S 30 on NW. faces, other marks illegible. The position of this cor. agrees very closely with the calls of the record as evidenced by distances to the old Gila Bend-Ajo mine roads to the E. and W., and has been accepted locally for many years as occupying the position of the original corner.

At point for cor.

Set an iron post, 3 ft. long, 3 ins. diam., 30 ins. in the ground, with the cor. post buried along side, for the standard cor. of Ts. 5 S., Rs. 4 and 5 W., with brass cap mkd.

S C	
T5S	
R5W	R4W
S 36	S 31

1942

from which

The water tank at S. P. station, bears N. 34° 52' E.

Gable at E. end of caboose house, bears N. 1° 44' W.

Bluff at E. end of Woolsey Pk., bears N. 30° 47' W.

E. end of the top of Hat Mt., bears S. 3° 58' W.

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

At a point 320.00 chs. North (record) of the standard cor. of Ts. 5 S., Rs. 4 and 5 W.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, for cor. of secs. 7, 12, 13 and 18, with brass cap mkd.

T5S	
R5W	R4W
S12	S 7
S13	S18
1942	

dig pits

18x18x12 ins., in each sec., 3 ft. dist.

Thence,

North, on a true line along the W. bdy. of sec. 7.

Survey and Dependent Resurvey of Part of the West Bdy. of
T. 5 S., R. 4 W.

Chains

Across the old bed of the Gila River, thru dense undergrowth.

- 5.00 Center of the main channel of the Gila River, course W.
12.60 Right bank of the old river bed, bears E. and W.; enter bottom land.
21.00 Dim road, bears E. and W.
26.80 Leave bottom land, bears E. and W.; asc. 196 ft. over a SW. slope.
37.75 Spur, slopes SW.; junction with a long spur, which slopes S. 45° E.; desc. 42 ft. over a N. slope, along top of spur.
39.50 Saddle in long spur, slopes S. from N. 20° W.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to bedrock, with a stone mkd. X deposited at the base, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

$\frac{1}{4}$
 S12 | S 7
 1942

Ascend 77 ft. over a SE. slope.

- 45.40 Top of same long spur, slopes S. 45° W.; desc. 117 ft. over a NW. slope.
54.05 Ravine, course S. 60° W.; for 3.00 chs., then W.; asc. 343 ft. over a S. slope.
68.25 Spur, slopes W.; desc. 92 ft. over a NE. slope.
72.85 Ravine, course W.; asc. 59 ft. over a SW. slope.
76.90 Spur, slopes NW.; desc. 180 ft. over a N. slope.
81.15 At this point, 41.23 chs. West of the $\frac{1}{4}$ sec. cor. bet. secs. 6 and 7 of T. 5 S., R. 4 W., described in the field notes of the subdivisional lines of T. 5 S., R. 4 W., surveyed and resurveyed under this group.
Set an iron post, 3 ft. long, 2 ins. diam., over an X mkd. on solid surface rock and in a mound of stone to top, for cor. of secs. 1, 6, 7 and 12, with brass cap mkd.

T5S
 R5W | R4W
 S 1 | S 6
 S12 | S 7
 1942

Land, S. $\frac{1}{4}$, level bottom land; N. $\frac{3}{4}$, mountainous.
Soil, in bottom land, sandy loam, 1st rate; in mountains, rocky, 4th rate.
Timber, in bottom land, mesquite; in mountains, palo verde; undergrowth, in river bed, dense rabbit brush.

Survey of Part of the West Bdy. of
T. 5 S., R. 4 W.

Chains											
	North, on the W. bdy. of sec. 6. Over mountainous land, thru scattered timber.										
0.13	Ravine, course N. 60° W.; desc. 134 ft. over a NW. slope.										
6.70	Wash, 20 lks. wide, 6 ft. deep, course N. 20° W.; asc. 289 ft. over a SW. slope.										
18.60	Spur, slopes SW.; desc. 90 ft. over a NW. slope.										
21.60	Ravine, course SW.; asc. 94 ft. over a S. slope.										
25.75	Main ridge of the Gila Bend Mts., bears S. 45° E. and N. 45° W., 5 chs. dist. to a saddle; desc. 265 ft. over a NE. slope.										
39.49	Proportional distance, based on a theoretical W. bdy. of sec. 6, T. 5 S., R. 4 W., of 80.00 chs. (40.00 chs. for each $\frac{1}{2}$). Set an iron post, 3 ft. long, 1 in. diam., 16 ins. in the ground to bedrock, with a stone mkd. X deposited at the base, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor. of sec. 6 only of R. 4 W., with brass cap mkd. <div style="text-align: center;"> $\frac{1}{4}$ S 6 1942 </div>										
40.00	Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground for $\frac{1}{4}$ sec. cor. of sec. 1 only of R. 5 W., with brass cap mkd. <div style="text-align: center;"> $\frac{1}{4}$ S 1 1942 </div> <p style="text-align: right;">raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.</p> <p>Descend 19 ft. over a NE. slope.</p>										
41.45	Wash, 15 lks. wide, 2 ft. deep, course N. 60° E.; asc. 41 ft. over a SE. slope.										
56.60	Spur, slopes SE.; desc. 19 ft. over a NE. slope.										
60.70	Wash, 30 lks. wide, 3 ft. deep, course S. 60° E.; asc. 312 ft. over a SW. slope.										
65.60	Trail, bears S. 30° E. to a road and N. 30° W. to a mine.										
70.80	High spur, slopes S. 40° E.; desc. 82 ft. over a steep E. slope, across the head of a gulch, course S. 70° E.										
78.98	Intersect the S. bdy. of sec. 31, T. 4 S., R. 4 W. The true point for closing cor. falls on sloping surface rock, an unsuitable place for a permanent cor. At a point, West 0.90 chs. dist. Set an iron post, 3 ft. long, 3 ins. diam., over an X mkd. on solid surface rock, and in a mound of stone to top, for witness closing cor. of Ts. 5 S., Rs. 4 and 5 W., with brass cap mkd. <div style="text-align: center;"> <table border="1"> <tr> <td>S 1</td> <td>S 6</td> </tr> <tr> <td>R5W</td> <td>R4W WC</td> </tr> <tr> <td colspan="2">T5S</td> </tr> <tr> <td colspan="2">C C</td> </tr> <tr> <td colspan="2">1942</td> </tr> </table> </div>	S 1	S 6	R5W	R4W WC	T5S		C C		1942	
S 1	S 6										
R5W	R4W WC										
T5S											
C C											
1942											

Survey of Part of the West Bdy. of
T. 5 S., R. 4 W.

BOOK 4286

Chains

From the true point for closing cor., the cor. of Ts. 4 S.,
Rs. 4 and 5 W., bears West, 8.07 chs. dist.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, palo verde; undergrowth, none.

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

From the cor. of secs. 3 and 4 only of T. 5 S. on the N.
bdy. of the Tp.

S. 0° 30' W., on a true line bet. secs. 3 and 4.

Over rolling land, thru scattered timber; asc. 23 ft. over
a NW. slope.

3.80 Spur, slopes SW.; desc. 30 ft. over a SE. slope.

15.90 Wash, 10 lks. wide, course S. 70° W.; asc. 43 ft. over a
NW. slope.

30.00 Spur, slopes SW.; desc. 54 ft. over a SE. slope.

40.05 Proportional distance.

Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the
ground to bedrock, with a malpais stone 6x4x2 ins., mkd.
X deposited at the base, and in a mound of stone to top,
for sec. cor., with brass cap mkd.

$\frac{1}{4}$
 ↓
 S 4 | S 3
 1941

Descend over a gradual SE. slope.

47.70 Wash, 15 lks. wide, course W.; asc. 17 ft. over a NW.
slope.

58.80 Spur, slopes W.; desc. 46 ft. over a S. slope.

77.10 Wash, 30 lks. wide, course W.

80.00 At this point, determined by single proportion to the N.
and S. and record distance in departure from the W.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the
ground, for cor. of secs. 3, 4, 9 and 10, with brass cap mkd.

T5S R5W
 S 4 | S 3

 S 9 | S 10
 1941

raise a mound

of stone, 3 ft. base, 3 ft. high, W. of cor.

Land, rolling.

Soil, rocky and gravelly, 3rd and 4th rates.

Timber, palo verde; undergrowth, none.

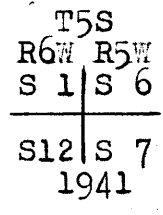
Dependent Resurvey of Part of the Subdivisional Lines of
T. 5 S., R. 5 W.

Chains

From the cor. of secs. 3, 4, 9 and 10, the cor. of secs. 1, 6, 7 and 12 on the W. bdy. of the Tp., bears S. 89° 29' W., 239.34 chs. dist.; a mesquite post, 4 ins. square, firmly set, mks. illegible.

At point for cor.

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



from which

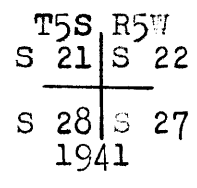
A mesquite, 32 ins. diam., bears S. 43½° E., 208 lks. dist., mkd. T 5 S R 5 W S 7 B T.

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

From the same cor., the cor. of secs. 21, 22, 27 and 28, bears S. 0° 57' E., 239.70 chs. dist.; a mesquite post, 5 ins. square, firmly set, marked T5S S 22 on NE. face, S 28 on SW. face, other marks not legible.

At point for cor.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, with the original post buried alongside, for cor. of secs. 21, 22, 27 and 28, with brass cap mkd.



dig pits

18x18x12 ins., in each sec., 3 ft. dist.

From the cor. of secs. 3, 4, 9 and 10.

S. 89° 45' E., on a true line bet. secs. 3 and 10.

Over rolling land, thru scattered timber; asc. 63 ft. over a NW. slope.

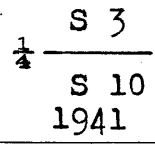
10.55 Spur, slopes SW.; desc. 46 ft. over a SE. slope.

26.05 Wash, 15 lks. wide, course SW.; asc. 89 ft. over a NW. slope.

38.00 Spur, slopes SW.; desc. over a gradual SE. slope.

39.90 Proportional distance.

Set an iron post, 3 ft. long, 1 in. diam., 16 ins. in the ground to bedrock, with a malpais stone, 8x6x4 ins., mkd. X deposited at the base, and in a mound of stone to top, for ¼ sec. cor., with brass cap mkd.



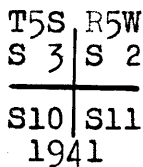
Dependent Resurvey of Part of the Subdivisional Lines of
T. 5 S., R. 5 W.

4256

Chains
79.80

At this point, determined by record distance in departure from the W. and record distance in latitude from the S.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, for cor. of secs. 2, 3, 10 and 11, with brass cap mkd.



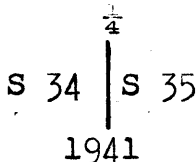
raise a mound

of stone, 3 ft. base, 3 ft. high, W. of cor.

From this cor., the $\frac{1}{4}$ sec. cor. of secs. 34 and 35, bears S. 0° 49' E., 360.00 chs. dist.; a mesquite post, $\frac{1}{4}$ ins. square, 16 ins. above an old mound of earth, mkd. $\frac{1}{4}$ S on W. face.

At point for cor.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with the original post buried alongside, for $\frac{1}{4}$ sec. cor. of secs. 34 and 35, with brass cap mkd.



dig pits

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

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

From the cor. of secs. 2, 3, 10 and 11.

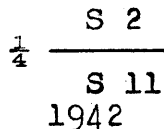
N. 88° 44' E., on a true line bet. secs. 2 and 11.

Over rolling land, thru scattered timber; along a general S. slope.

29.75 Wash, 20 lks. wide, course S.

39.95 Proportional distance.

Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to bedrock, with a stone 6x6x2 ins., mkd X deposited at the base and in a mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap mkd.



47.85 Wash, 15 lks. wide, course S.

73.20 Wash, 20 lks. wide, course SE.

79.90 At this point, determined by record distance in departure from the W. and record distance in latitude from the S.

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

Chains

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, for cor. of secs. 1, 2, 11, and 12, with brass cap mkd.

T5S	R5W	
S 2	S 1	
S11		S12
1942		

raise a mound
of stone, 2 ft. base, 1½ ft. high, W. of cor.

Land, rolling.

Soil, rocky and gravelly, 3rd and 4th rates.

Timber, palo verde; undergrowth, none.

S. 3° 04' E., on a true line bet. secs. 11 and 12.

Over rolling land, thru scattered timber; descend along a general S. slope.

9.40 Wash, 20 lks. wide, course S. 20° E.

23.70 Shallow wash, course S. 40° E.

27.50 Enter bottom land, bears E. and W.

28.00 Dim road, bears E. and W.

39.50 The right bank of the old bed of the Gila River, bears E. and W.

40.06 Proportional distance.

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

¼
S 11 S 12
1943

from which

A mesquite, 4 ins. diam., bears S. 29½° E., 42 lks. dist., mkd. ¼ S 12 B T.

A mesquite, 6 ins. diam., bears S. 6¼° W., 172 lks. dist., mkd. ¼ S 11 B T.

Thence across sandy river bed.

73.62 Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, for witness cor. of secs. 11, 12, 13 and 14, with brass cap mkd.

T5S	R5W	
S 11	S 12	
S 14		S 13
W C		T
1943		5

from which

A mesquite, 6 ins. diam., bears N. 30½° E., 207 lks. dist., mkd. W C T 5 S R 5 W S 12 B T.

Dig pits, 18x18x12 ins., in SE., SW., and NW., secs. 3 ft. dist.

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

1942

Chains

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

80.12 True point for cor. of secs. 11, 12, 13 and 14, determined by single proportion to the E. and W. and record distance in latitude from the S., falls in the channel of the Gila River; an unsuitable place for a permanent corner.

Land, N. 27.00 chs., rolling, remainder, level bottom land and river bed.

Soil, on rolling land, rocky and gravelly, 3rd and 4th rates; bottom land, sandy loam, 1st rate; river bed, sand, 4th rate.

Timber, on rolling land, palo verde; bottom land, mesquite; undergrowth, rolling land and bottom land, none; river bed, dense rabbit brush.

From the true point for the cor. of secs. 11, 12, 13 and 14, the $\frac{1}{4}$ sec. cor. bet. secs. 10 and 15, bears S. $89^{\circ} 28'$ W., 122.84 chs. dist.; an old mound of stone, I find no mkd. stone.

At point for cor., in center of mound.

Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to bedrock, with a stone mkd. X deposited at the base, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor. of secs. 10 and 15, with brass cap mkd.

$$\begin{array}{c} \frac{1}{4} \\ \hline \text{S } 10 \\ \text{S } 15 \\ 1942 \end{array}$$

This cor. is located on top of a spur, slopes N. 70° W., from E., and is 75 ft. above the bottom land of the river to the W.

From the same point the $\frac{1}{4}$ sec. cor. bet. secs. 23 and 24, bears S. $0^{\circ} 36'$ E., 120.00 chs. dist.; an old mesquite post, 3 ins. square, firmly set, marks undiscernible.

At point for cor.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for $\frac{1}{4}$ sec. cor. of secs. 23 and 24, with brass cap mkd.

$$\begin{array}{c} \frac{1}{4} \\ | \\ \text{S } 23 \text{ | } \text{S } 24 \\ 1942 \end{array}$$

from which

A cross on a church belfry, bears N. $39^{\circ} 53'$ E.

Bluff at E. end of Woolsey Pk., bears N. $32^{\circ} 21'$ W.

West side of the top of Hat Mt., bears S. $1^{\circ} 05'$ W.

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

From the true point for the cor. of secs. 11, 12, 13 and 14.

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

Chains	
	<p>S. 89° 43' E., on a true line bet. secs. 12 and 13.</p> <p>Along the bottom of the dry channel of the Gila River, thru patches of dense rabbit brush.</p>
17.00	Left bank of the channel of the Gila River, bears S. 70° W. and N. 70° E., thence across old river bed.
33.00	Left bank of the channel of the river, bears N. 60° W. and S. 60° E., thence along the dry channel of the river.
40.88	<p>Proportional distance, true point for $\frac{1}{4}$ sec. cor., falls in the channel of the river, an unsuitable place for a permanent corner.</p> <p>At a point, North, 1.40 chs. dist.</p> <p>Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for witness $\frac{1}{4}$ sec. cor., with brass cap mkd.</p> <div style="text-align: center;"> <p>S 12</p> <hr style="width: 50px; margin: 0 auto;"/> <p>$\frac{1}{4}$</p> <p>S 13</p> <p>WC</p> <p>1942</p> </div> <p style="text-align: right;">raise a mound</p> <p>of stone, 3 ft. base, 2$\frac{1}{2}$ ft. high, N. of cor.</p> <p>This cor. is located 1.00 ch. N. of the right bank of the channel of the Gila River.</p> <p>From the true point for the $\frac{1}{4}$ sec. cor. of secs. 12 and 13, continue on a true line, bet. secs. 12 and 13.</p> <p>Continue along the dry channel of the river.</p>
63.00	Left bank of the channel of the Gila River, 6 ft. high, bears N. 20° E. and S. 60° W., thence over bottom land.
81.76	<p>The cor. of secs. 7, 12, 13 and 18, on the E. bdy. of the Tp.</p> <p>Land, level.</p> <p>Soil, in river bed, sand, 4th rate; bottom land, sandy loam, 1st rate.</p> <p>Timber, mesquite; undergrowth, in river bed, rabbit brush.</p> <hr style="border-top: 1px dashed black;"/> <p style="text-align: center;">Survey of Part of the Subdivisional Lines of T. 5 S., R. 5 W.</p> <hr style="border-top: 1px dashed black;"/> <p>From the cor. of secs. 1, 6, 7 and 12, on the E. bdy. of the Tp.</p> <p>S. 89° 41' W., on a true line bet. secs. 1 and 12.</p> <p>Over mountainous land, thru scattered timber; desc. 8 ft. over a N. slope.</p>
3.55	Saddle in spur, slopes N. 70° W.; desc. 239 ft. over a SW. slope.
5.94	<p>A point 80.00 chs. from the cor. of secs. 1, 2, 11 and 12.</p> <p>Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to bedrock, with a stone 4x3x1 ins., mkd. X deposited at the base, and in a mound of stone to top, for cor.</p>

Survey of Part of the Subdivisional Lines of
T. 5 S., R. 5 W.

Chains	of lots 10 and 11 of sec. 1 only, with brass cap mkd.
	$\begin{array}{c} S1 \\ \hline 10 \quad \quad 11 \end{array}$
	1942
26.45	Wash, 20 lks. wide, course S. 30° E.; asc. 57 ft. over an E. slope.
32.10	Spur, slopes S.; desc. 49 ft. over a W. slope.
37.70	Wash, 15 lks. wide, course S. 20° W.; asc. 9 ft. over an E. slope.
39.10	Spur, slopes S.; desc. 4 ft. over a W. slope.
39.40	Wash, 15 lks. wide, course S. 20° E.; asc. 3 ft. over an E. slope.
42.60	Spur, slopes S.; desc. 4 ft. over a W. slope.
42.97	Midway, Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to bedrock, with a stone 4x2x1 ins. mkd. X deposited at the base, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor. of sec. 12 only, with brass cap mkd.
	$\begin{array}{c} \frac{1}{4} S 12 \\ \hline 1942 \end{array}$
45.94	Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to bedrock, with a stone 5x3x2 ins. mkd. X deposited at the base, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor. of sec. 1 only, with brass cap mkd.
	$\begin{array}{c} \frac{1}{4} S 1 \\ \hline 1942 \end{array}$
	Ascend 12 ft. over an E. slope.
49.10	Spur, slopes S.; desc. 63 ft. over a W. slope.
53.60	Ravine, course S. 20° W.; asc. 39 ft. over an E. slope.
58.10	Spur, slopes S.; desc. 40 ft. over a W. slope.
69.10	Ravine, course S. 20° E.; asc. 28 ft. over a NE. slope.
71.70	Low spur, slopes SE.; desc. 21 ft. over a SW. slope.
85.94	The cor. of secs. 1, 2, 11 and 12. Land, mountainous. Soil, rocky and gravelly, 3rd and 4th rates. Timber, palo verde; undergrowth, none.

	N. 0° 01' W., on a true line bet. secs. 1 and 2. Over mountainous land, thru scattered timber; asc. 87 ft. over a broken SW. slope.
9.40	Wash, 20 lks. wide, course S. 40° W.
24.55	Spur, slopes S. 30° W.; desc. 29 ft. over a NW. slope.
31.10	Wash, 40 lks. wide, 5 ft. deep, course S. 50° W.; asc. 81 ft. over a SE. slope.
38.23	A point East by calculation from the $\frac{1}{4}$ sec. cor. of secs. 2 and 3, hereinafter described.

Survey of Part of the Subdivisional Lines of
T. 5 S., R. 5 W.

Chains

Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to bedrock, with a stone 3x3x3 ins. mkd. X deposited at the base, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor. of sec. 2 only, with brass cap mkd.

$$\begin{array}{c} \frac{1}{4} \\ | \\ S \ 2 \end{array}$$

1942

40.00 Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to bedrock, with a stone 3x3x3 ins. mkd. X deposited at the base, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor. of sec. 1 only, with brass cap mkd.

$$\begin{array}{c} \frac{1}{4} \\ | \\ S \ 1 \end{array}$$

1942

Ascend 166 ft. over a SE. slope.

48.90 Spur, slopes W.; desc. 15 ft. over a N. slope.

56.20 Wash, 10 lks. wide, 1 ft. deep, course W.; asc. 24 ft. over a S. slope.

58.50 Spur, slopes W.; desc. 19 ft. over a N. slope.

64.50 Wash, 20 lks. wide, 2 ft. deep; course S. 40° W.; asc. 198 ft. over a SE. slope.

74.00 Long spur, slopes S. 50° W.; desc. 21 ft. over a W. slope.

79.29 The cor. of secs. 1 and 2 only of T. 5 S., on the N. bdy. of the Tp.

Land, mountainous.

Soil, rocky and gravelly, 3rd and 4th rates.

Timber, palo Verde; undergrowth, none.

From the cor. of secs. 2, 3, 10 and 11.

N. 0° 01' W., on a true line bet. secs. 2 and 3.

Over broken and hilly land; thru scattered timber; asc. 92 ft. over a general W. slope.

8.50 Wash, 10 lks. wide, 3 ft. deep; course S. 20° W.; continue ascent in bottom of wash.

14.00 Leave wash, course S. from NE.; continue ascent over a SE. slope.

23.40 Spur, slopes S. 30° E.; desc. 52 ft. over a NE. slope.

27.10 Wash, 20 lks. wide, 2 ft. deep, course S. 30° E.; asc. 40 ft. over a general SE. slope.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to bedrock, with a stone 3x3x3 ins. mkd. X deposited at the base, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

Survey of Part of the Subdivisional Lines of
T. 5 S., R. 5 W.

Chains

$\frac{1}{4}$
 S 3 | S 2
 1942

- Ascend 75 ft. over a S. slope.
- 45.30 Ridge, bears S. 40° W. and N. 40° E.; desc. 43 ft. over a NW. slope.
- 53.90 Wash, 15 lks. wide, 4 ft. deep, course S. 50° W.; asc. 240 ft. over a S. slope.
- 65.85 Recross ridge, bears E. and W.; desc. 222 ft. over a N. slope.
- 80.66 The cor. of secs. 2 and 3 only of T. 5 S. on the N. bdy. of the Tp.

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

Final Test of Solar Attachments.

January 6, 1943; in camp in the NE. $\frac{1}{4}$ of sec. 31, T. 5 S., R. 5 W. We test the solar attachments by comparing their indications hourly with the meridian established by Polaris observation on November 29, 1942, heretofore described.

At 9:00 a.m. app. t., we set off 32° 57'.5 N. on the lat. arcs; 22° 30'.5 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'.4 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' 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.

General Description.

Sections 1, 2, 3, and 12 of T. 5 S., R. 5 W. are totally within the Gila Bend Indian Reservation and are located at the southeast end of the Gila Bend Range of Mountains. The main ridge of these mountains enters sec. 1, west of the closing corner of Ts. 5 S., Rs. 4 and 5 W., and leaves this section about 15.00 chs. S. of the $\frac{1}{4}$ sec. cor. of sec. 1 only. The top of the mountain ridge is approximately 700 ft. above the level of the bottom land of the Gila River to the E. This ridge extends southeasterly to the right bank of the Gila River at which point the river changes its course from S. to W. forming a sharp bend from which this Indian Reservation derives its name.

The average elevation of the land described in this survey is about 1400 ft. above sea level.

The land in sec. 1, and the NE. $\frac{1}{4}$ of sec. 12 is for the most part mountainous, with rocky soil of 4th rate. Sections 2 and 3, the N. $\frac{1}{2}$ of sec. 11 and the NW. $\frac{1}{4}$ of sec. 12 are in the foothills and the soil is rocky and gravelly of 3rd and 4th rates. A narrow strip of land located in secs. 11 and 12, between the foothills and the N. bank of the old river bed has soil of sandy loam, 1st rate. The mountainous and rolling land has a scattered growth of palo verde and in the river bottom is a good growth of mesquite. Throughout the entire area there is a scattered growth of sahuara, prickly pear and numerous small species of cacti.

The general direction of the drainage is south, furnished by rocky ravines, sand washes and arroyos which drain into the Gila River.

The south end of an unsurveyed mining claim occupies a portion of lot 2 of sec. 1, as evidenced by stone monuments. There were no markings on any of the stones at these monuments, There are no mining improvements within the section, though other monuments were observed in lot six of said section.

4-680
(Revised May 1934)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE

APR 17 1939

FIELD ASSISTANTS

NAMES	CAPACITY
Irwin B. Williams	Principal Assistant
John G. Coverdale	" "
Mike Knezevich	" "
Floyd Bassani	" " and Chairman
Mark A. Darrow, Jr.	" "
Dallas A. Sears	Chairman
Stanley J. Jarocha	" Flagman and Axeman
James C. Bennett	"
Glen A. Bush	" and Moundsman
Ralph L. Lee	"
Russel H. Adams	Flagman
Roy West	"
Gladwin Gregory	"
George C. Collier	"

W

BOOK 4286

CERTIFICATE OF SURVEYOR

We, Ty White, Assistant Cadastral Engineer, and Claude F. Warner, Assistant Cadastral Engineer, General 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 instructions dated Feb. 1, 1941, Nov. 15, 1941 and Nov. 23, 1942. We have surveyed and resurveyed a portion of the south boundary of T. 4 S., R. 4 W., surveyed a portion of the north boundary, and surveyed and resurveyed a portion of the East boundary and subdivisioal lines, completing the subdivision of Township 5 South, Range 5 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 survey and resurvey have 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.

The foregoing field notes of the survey of resurvey of a portion of the south boundary of T. 4 S., R. 4 W., survey of a portion of the north boundary, and survey and resurvey of a portion of the East boundary and subdivisioal lines, completing the subdivision of Township 5 South, Range 5 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 Feb. 1, 1941 and Nov. 15, 1941, and Nov. 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.

Signature of 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