

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL
FIELD NOTES

OF THE

DEPENDENT RESURVEY

OF A PORTION OF THE EAST BOUNDARY

AND THE SURVEY

OF A PORTION OF THE SUBDIVISION

OF

TOWNSHIP 5 SOUTH, RANGE 19 EAST

Of the Gila and Salt River Meridian,

In the State of Arizona

EXECUTED BY

Phil D. Smith, Cadastral Surveyor

Under special instructions dated November 10, 1954, which provided
for the surveys included under Group No. 297, approved November 10, 1954
and assignment instructions dated December 27, 1956

Survey commenced January 10, 1957

Survey completed February 7, 1957

BOOK 4611

INDEX DIAGRAM

Township 5 South, Range 19 East

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GPO 866119

Township 5 South, Range 19 East

Chains

The south boundary, or First Standard Parallel South, was surveyed by G. F. Sawyer in 1924. The east boundary was surveyed by W. E. Hiester in 1929, with corner monuments established only for T. 5 S., R. 20 E. The west boundary was surveyed by Theo. VanderMeer in 1925; with the north boundary being surveyed by C. E. Hunter in 1932.

The following field notes are those of the survey of a portion of the subdivision and the resurvey of the south mile of the east boundary of T. 5 S., R. 19 E., which were requested by the Arizona State Land Department of Phoenix, Arizona.

This survey was executed with a W. and L. E. Gurley solar transit, serial No. 541329, constructed in accordance with the standard instrumental specifications of the Bureau of Land Management. The instrument was in good condition and placed in proper adjustment prior to the beginning of the survey.

Measurements herein contained were made with a narrow steel tape, 8 chains in length, graduated every one-tenth link for the first link, every link for the next ninety-nine links, and thereafter at intervals of every ten links. The tape was tested by comparison with a one chain standard steel tape and found to be correct. Measurements were made on the slope with the vertical angle of each interval ascertained by two clinometers in good adjustment; the field notes showing the horizontal equivalents only.

The directions of the lines of this survey were determined generally by sustained angulation carried forward from the following hour angle observation on Polaris for meridian, supplemented by other stellar observations for azimuth taken throughout the progress of the survey.

The geographic position for the southeast corner of this township is at latitude $32^{\circ} 56' 51''$ N. and longitude $110^{\circ} 20' 44''$ W. as determined from U.S.G.S. Klondyke Quadrangle Sheet.

January 29, 1957 at the standard corner of section 36, T. 5 S., R. 19 E., at latitude $32^{\circ} 56' 51''$ N. and longitude $110^{\circ} 20' 44''$ W., I make an hour angle observation of Polaris with the following results:

Mean watch time of observation, p.m.	3h 20.6m
Hour angle of Polaris	1h 57.4m
True azimuth	E. $0^{\circ} 33.0m$
Horizontal angle	$0^{\circ} 33.0m$
True bearing of reference line	North

The magnetic declination was read at a number of stations throughout the survey and the average of these readings was found to be 14° E.

Dependent Resurvey of a Portion of the East Boundary, T. 5 S., R. 19 E.

Beginning at the standard cor. of sec. 36 only, T. 5 S., R. 19 E., monumented by an iron post, 3 ins. diam., set, mkd. and witnessed as described in the official record.

North, along E. bdy. of sec. 36.

Asc. 100 ft. along E. slope, through moderate undergrowth and mesquite.

8.50 Spur, sloping S. 10° E.; cont. to asc. 120 ft.

Dependent Resurvey, Portion of E. Bdy., T. 5 S., R. 19 E.

Chains

- 23.10 Rut road, bears N. 35° E. and S. 30° W.; cont. to asc. 100 ft.
- 31.00 Top of ascent on knoll; desc. 70 ft. over general NE. slope.
- 39.23 The $\frac{1}{4}$ sec. cor. of sec. 31, T. 5 S., R. 20 E., monumented by an iron post, one inch diam., set, mkd. and witnessed as described in the official record.
Desc. 10 ft.
- 40.00 Point for the $\frac{1}{4}$ sec. cor. of sec. 36, T. 5 S., R. 19 E.
Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground and in a mound of stone, 4 ft. base, to top of post, with brass cap mkd.
- T 5S
R19E
 $\frac{1}{4}$
S36
1957
- Desc. 205 ft. over a general NE. slope.
- 42.60 Rocky spur, sloping NE.
- 58.55 Wash, with water, 20 lks. wide, 2 ft. deep, drains N. 15° W.
- 59.40 Same road, bears N. 20° W. and S. 15° E.; asc. 160 ft. over rolling SW. slope.
- 68.70 Spur, sloping N. 25° W.; desc. 60 ft. over rolling, general N. slope.
- 72.50 Base of slope, bears NW. and E.; cont. over near level land.
- 79.21 The cor. of secs. 30 and 31, T. 5 S., R. 20 E., monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record.
- 80.00 Point for the cor. of secs. 25 and 36, T. 5 S., R. 19 E.
Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone, with brass cap mkd.
- T 5S
R19E
 $\frac{25}{36}$ S30
1957
- Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. monument.
- Land, mountainous.
Soil, rocky, sandy loam.
Timber, scattered scrub juniper and pinon.
Undergrowth, heavy to moderate mesquite and cacti, some catclaw.

Survey of a Portion of the Subdivision of T. 5 S., R. 19 E.

From the standard cor. of secs. 35 and 36, T. 5 S., R. 19 E., monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record.

N. 0° 01' W., bet. secs. 35 and 36.

Survey, Portion of Subdivision, T. 5 S., R. 19 E.

Chains	
	Over high rolling land; desc. 25 ft. over N. slope.
1.00	Wash, 120 lks. wide, 3 ft. deep, drains S. 80° W.; asc. 210 ft. over a S. slope.
11.05	Top of ascent on spur, sloping W. from N. 80° E.; desc. 160 ft. over a general NW. slope.
26.70	Wash, 20 lks. wide, 2 ft. deep, drains S. 80° W.; asc. 155 ft. over a S. slope.
36.70	Top of ascent on S. edge of spur, bears S. 80° W. and N. 70° E.
37.45	N. edge of spur, bears S. 85° W. and N. 70° E.; desc. 65 ft. over a rocky NW. slope.
39.85	Point selected for the witness $\frac{1}{4}$ sec. cor. of secs. 35 and 36. Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on bedrock and in a mound of stone, 4 ft. base to top of post, with brass cap mkd. <div style="text-align: center;"> T5S R19E $\frac{1}{4}$ WAC S35 S36 1957 </div>
40.00	True point for the $\frac{1}{4}$ sec. cor. of secs. 35 and 36 falls in a rocky wash, 30 lks. wide, 1 ft. deep, draining N. 40° W., where it is impractical to set the monument. Desc. 60 ft. over a NW. slope.
47.60	Wash, 30 lks. wide, 4 ft. deep, drains N. 40° W. from N. 80° E.; asc. 80 ft. over a S. slope.
51.15	Point of spur, from N. 40° E.; desc. 150 ft. over a sharp NW. slope.
60.15	Arizona Gulch, 30 lks. wide, 3 ft. deep, drains S. 15° W.; asc. 90 ft. over a SE. slope.
76.50	Spur, sloping S. 15° E.
78.65	Slope changes to W.
80.00	Point for the cor. of secs. 25, 26, 35 and 36. Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, and in a mound of stone, 3 ft. base to top of post, with brass cap mkd. <div style="text-align: center;"> T5S R19E S26 S25 S35 S36 1957 </div> <p>Land, high rolling, mountainous. Soil, rocky, sandy loam. Timber, very scattered scrub juniper and pinon. Undergrowth, moderate mesquite and soap weed, scattered catclaw and heavy cacti.</p>

Survey, Portion of Subdivision, T. 5 S., R. 19 E.

Chains	
	From the cor. of secs. 25 and 36 on the E. bdy. of the Tp.
	S. 89° 53' W., bet. secs. 25 and 36.
	Desc. 90 ft. over a W. slope.
16.65	Rut road, bears N. 20° W. and S. 25° E.
17.35	Wash, with water, 10 lks. wide, 2 ft. deep, draining S. 20° W.; asc. 120 ft. over E. slope.
30.80	Spur, sloping S. from N. 75° E.; desc. 170 ft. over NW. slope.
39.98	Point for the $\frac{1}{4}$ sec. cor. of secs. 25 and 36.
	Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., 6 ins. in the ground to bedrock and in a mound of stone, 5 ft. base to top of post, with brass cap mkd.
	T5S R19E $\frac{1}{4}$ $\frac{S25}{S36}$ 1957
	From this point
	The cor. No. 1 of the Norton and the cor. No. 1 of the Curtis, Mineral Survey No. 4012, bears S. 75° 07' E., 2.44 chs. dist.
	The NE. cor. of a house, bears N. 89° 59' W., 1.13 chs. dist.
	Desc. 35 ft. over a general W. slope.
41.20	Same road, bears N. and S.; desc. 75 ft. over W. slope.
54.20	Dirt road, bears S. 45° W. and S. 55° E., in small wash, drains SW.
58.40	Same road, bears N. 10° E. and S. 40° E.
60.20	Williamson Wash, 15 lks. wide, 2 ft. deep, drains S. from N. 40° E.
64.25	Rise, bears N. and S.
73.25	Arizona Gulch, 20 lks. wide, 3 ft. deep, drains S. 10° E., approximately 4 chs. thence S. 15° W. to junction of washes; asc. 165 ft. over a broken E. slope.
79.96	The cor. of secs. 25, 26, 35 and 36.
	Land, rolling to broken, mountainous. Soil, rocky, sandy. Timber, very scattered juniper and pinon. Undergrowth, heavy mesquite, moderate soapweed catclaw and cacti.
	The standard $\frac{1}{4}$ sec. cor. of sec. 36, monumented by an iron post, one inch diam., set, mkd. and witnessed as described in the official record is at midpoint on the S. bdy. of the Sec.

Survey, Portion of Subdivision, T. 5 S., R. 19 E.

Chains

From this point

The cor. No. 2 of the Dawes, Mineral Survey No. 4010, bears N. 37° 40' W., 20.08 chs. dist.

The cor. No. 1 of the Dawes, Mineral Survey No. 4010, and the cor. No. 10 of the Sand Carbonate, Mineral Survey No. 1041, bears N. 15° 28' W., 23.59 chs. dist.

The cor. No. 2 of the Gows Head, Mineral Survey No. 4012, and the SW. cor. of the Fairbanks (unsurveyed) bears N. 23° 11' E., 35.88 chs. dist.

From the standard cor. of secs. 32 and 33, T. 5 S., R. 19 E., monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record.

N. 0° 02' W., bet. secs. 32 and 33.

Asc. 100 ft. along W. slope of a gravel spur.

18.70 Four strand barbed wire fence, bears N. 25° E. and S. 25° W.

19.80 Four strand barbed wire fence, bears N. 60° W. and S. 60° E., top of ascent on spur, sloping S. 25° W.; desc. 175 ft. over a NW. slope.

39.50 Wash, 15 lks. wide, 2 ft. deep, drains S. 30° W.; asc. 40 ft. over a S. slope.

40.00 True point for the 1/4 sec. cor. of secs. 32 and 33 falls on a short, loose, sharp NW. slope, where it is impractical to set the monument.

40.10 Point selected for the witness 1/4 sec. cor. of secs. 32 and 33.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 6 ins. in the ground to bedrock and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.

T5S R19E

1/4 S32|S33

W C

1957

42.70 Spur, sloping S. 30° W.; desc. 400 ft. over a NW. slope.

65.50 Deer Creek Wash, drains S. 30° W.

68.00 Asc. 100 ft. over a broken S. slope.

71.00 Spur, sloping S. 15° W., thence over broken spur top.

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

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 10 ins. in the ground and in a mound of stone, 3 ft. base to top of post, with brass cap mkd.

T5S R19E

S29|S28

S32|S33

1957

Land, mountainous.

Soil, gravelly, rocky.

Timber, Very scattered pinon.

Undergrowth, moderate to scattered oak and cacti.

Survey, Portion of Subdivision, T. 5 S., R. 19 E.

Chains

The standard cor. of secs. 31 and 32, T. 5 S., R. 19 E. was destroyed during road construction.

The cor. is reestablished at a proportionate dist. bet. the standard $\frac{1}{4}$ sec. cor. of sec. 31 and the standard $\frac{1}{4}$ sec. cor. of sec. 32.

At the cor. point:

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 10 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.

T5S R19E

S C

S31|S32

1957

From this cor. point, the standard $\frac{1}{4}$ sec. cor. of sec. 31 bears W., 40.00 chs. dist.

From the same point, the standard $\frac{1}{4}$ sec. cor. of sec. 32 bears E., 40.00 chs. dist.

Thence

N. $0^{\circ} 03'$ W., bet. secs. 31 and 32.

0.07 Center of dirt road, bears NW. and SW.; desc. 75 ft. over a NE. slope.

10.50 Head of wash, drains S. 30° E.; asc. 260 ft. over a SW. slope to the $\frac{1}{4}$ sec. cor.

15.00 High point of spur, sloping S. 40° E.

22.00 Spur, sloping S. 40° E.

26.00 Slope changes to S.

35.00 Wash, 20 lks. wide, 2 ft. deep, drains S. 30° E.

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

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 15 ins. in the ground, and in a mound of stone, 2 ft. base to top of post, with brass cap mkd.

T5S R19E

$\frac{1}{4}$

S31|S32

1957

Cont. to asc. 185 ft.

44.50 Slope changes to SW.

56.00 Spur, sloping S. 40° E.; desc. 115 ft. over a general NE. slope.

70.50 S. rim of Horse Canyon, bears N. 25° W. and S. 30° E.

73.30 Wash channel of Horse Canyon, drains S. 30° E.; asc. 215 ft. over a SW. slope.

6A

1007 1001

Survey, Portion of Subdivision, T. 5 S., R. 19 E.

Chains

76.80

N. rim of Horse Canyon, bears N. 25° W. and S. 30° E.

80.00

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

Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 3 ft. base to top of post, with brass cap mkd.

T5S R19E
S30 | S29
S31 | S32
1957

Land, mountainous.
Soil, sandy, rocky.
Timber, very scattered scrub juniper.
Undergrowth, scattered oak and cacti.

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

S. 89° 52' W., bet. secs. 29 and 32.

Asc. 250 ft. along a general S. slope.

24.00

Spur, sloping S. 15° E.; desc. 210 ft. over a general W. slope.

36.00

Slope changes to SW.

40.00

True point for the ¼ sec. cor. of secs. 29 and 32 falls on a large rock outcropping, where it is impractical to set the monument.

40.20

Point selected for the witness ¼ sec. cor. of secs. 29 and 32.

Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 3 ft. base to top of post, with brass cap mkd.

T5S R19E
¼ S29 W
¼ S32 C
1957

42.00

Black Canyon wash channel, with water, 80 lks. wide, 3 ft. deep, drains S.; asc. 375 ft. over a NE. slope.

70.75

Spur, sloping S. 40° E.; desc. 20 ft. over a SW. slope.

80.00

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

Land, mountainous.
Soil, sandy loam, rocky.
Timber, very scattered scrub juniper.
Undergrowth, scattered oak, soapweed, cacti.

General Description

The land within the area surveyed in T. 5 S., R. 19 E. is principally mountainous, with a general south drainage in section 32 and a south-west drainage in section 36. The elevation in section 32 ranges from a low of 3,615 feet in Deer Creek on the south boundary of the section to a high of 4,127 feet near the ¼ section corner on the east boundary of the section. The elevation in section 36 ranges from a low of 4,379 feet near the southwest corner of the section, to a high of 4,861 feet near the southeast corner of the section; with about 4,500 feet near the center of the section.

BOOK 4611

Township 5 South, Range 19 East

Chains

There are three main washes in section 32, joining near the center of the section and leaving in the southwest portion of the section, as Deer Creek. In section 36 there are two main washes, joining in the northwest corner of the section and leaving in the northwest portion of the section as the Arizona Gulch.

The soil contained in the sections is principally sandy and rocky. A very scattered growth of scrub juniper and pinon, with a moderate growth of soapweed, mesquite and cacti.

There are no roads in section 32. There is one road, south of the section, through Deer Creek and passing close to the southwest corner of section 32. There are a number of roads in section 36. There is a settled mining town in section 36, with the larger part of the section being covered with mining claims.

BOOK 4611

4-680
(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Alburn D. Griffin	Principal Assistant
Lacel E. Bland	Chainman
Ray D. Neilson	Flagman
Darwin P. Russell	Cornerman
Deon J. Allen	Truck Driver
Abdu Karrar	Axeman

CERTIFICATE OF CADASTRAL ENGINEER

I, Phil D. Smith, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 27th day of December, 1956, I have ~~surveyed~~ independently resurveyed the east boundary of section 36 and surveyed a portion of the subdivisional lines of T. 5 S., R. 19 E.

of the Gila & Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said 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.

Salt Lake City, Utah
March 21, 1961

Phil D. Smith
Phil D. Smith, Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., OCT 24 1961, 19

The foregoing field notes of the ~~survey of~~ independent resurvey of a portion of the east boundary and survey of a portion of the subdivisional lines of T. 5 S., R. 19 E., Gila & Salt River Meridian, Arizona

executed by Phil D. Smith, Cadastral Surveyor

having been critically examined and found correct, are hereby approved.

[Signature]
Chief, Division of Engineering
Cadastral Engineering Staff Officer

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.~~

Cadastral Engineering Staff Officer