

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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MAR 10 1952

FIELD NOTES

of the

Survey of Sections 28 and 33

in

Township 6 South, Range 30 East

Of the Gila and Salt River Meridian,

In the State of Arizona

EXECUTED BY

Ty White and Clarence E. Bilbray, Cadastral Engineers

Under special instructions dated July 26, 1951, which provided
for the surveys included under Group No. 277, approved August 2, 1951
and assignment instructions dated October 23, 1951

Survey commenced October 29, 1951

Survey completed November 2, 1951

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Book No 4387

BOOK 4387

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Township 6 South, Range 30 East, G. & S.R. Mer.

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T. 6 S., R. 30 E.

The survey of Sections 28 and 33, Township 6 South, Range 30 East, of the Gila and Salt River Meridian, Arizona. This survey is made to facilitate the administration of range management.

The north boundary (1st Standard Parallel South) was surveyed by T.F. White in 1882. The east boundary of the township, and secs. 1 to 6 and secs. 11 to 14 incl., were surveyed by D. Drummond in 1891. The south boundary was surveyed by C.E. Hunter in 1931. The west boundary is unsurveyed except for the west boundary of sec. 6.

The survey was executed with light mountain transit, manufactured by Buff & Buff, serial No. 16724, which is the property of the Bureau of Land Management, and constructed in accordance with its standard specifications.

Measurements were made with a Lufkin steel tape, 5 chains in length graduated to tenths of a link for the first 10 links, every link for the balance of the first 100 links, and at each 10 link interval for the remaining 400 links. The tape was tested by comparison with a Lufkin standard steel tape, kept for testing purposes, and found correct. The measurements were made on the slope, and vertical angle of each slope interval ascertained by a clinometer in adjustment. The distances entered in the field note record are summations of the horizontal equivalents.

The geographic position of the southeast corner of section 33, as computed from the position given for the southeast corner of T. 7 S., R. 30 E. is Latitude $32^{\circ} 51' 35''$ N. Longitude $109^{\circ} 16' 22''$ W.

The directions of all lines were determined by transit method, with azimuths referred to a meridian established in camp by polaris observations as follows.

October 28, 1951, at camp in section 32, T. 6 S., R. 30 E., Gila and Salt River Meridian, Arizona, in Latitude $32^{\circ} 51' 37''$ N., Longitude $109^{\circ} 18' 07''$ W., as determined from data furnished with the special instructions, at 5h 13m 30s p.m. l.m.t., I make an hour angle observation on polaris E. of the meridian for azimuth, making four observations, two each with the telescope in direct and reversed positions, reading the horizontal angle from a well defined point on the sky line, W. to polaris. My watch reads correct Mountain Standard Time as checked by radio time signals.

Mean watch time of observation -----	5h 13m 30s p.m.
Watch fast of l.m.t. -----	0h 17m 12s
Mean horizontal deflection angle -----	$19^{\circ} 17' 30''$
Azimuth of polaris -----	$1^{\circ} 07' 48''$
True bearing of reference point -----	N. $20^{\circ} 25' 18''$ E.

Chains

Survey of Sections 28 and 33, T. 6 S., R. 30 E.

Beginning at the corner of secs. 3, 4, 33, and 34, on the S. bdy. of the Tp., which is monumented with an iron post, 2 ins. diameter, set, marked and witnessed as described in the official record.

N. $0^{\circ} 02'$ W., bet. secs. 33 and 34.

Descend 214 ft. over steep NE. slope.

15.00 A shallow wash, drains NW.; asc. 82 ft. over SW. slope.

27.20 Top of spur, slopes NW.; desc. 142 ft. over NE. slope of spur.

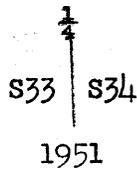
37.70 A wash, 10 lks. wide, drains NW.

40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 33 and 34

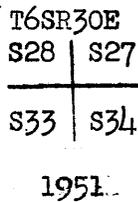
Set an iron post, 3 ft. long, 1 in. diam., 10 ins in the ground to solid rock, and in a mound of stone to top, with brass cap mkd.

Survey of Sections 28 and 33, T. 6 S., R. 30 E.

Chains

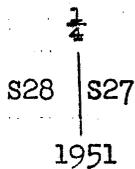


- 41.00 A shallow wash, drains W.; asc. 411 ft. over steep S. slope.
- 61.00 Top of spur, slopes E.; desc. 237 ft. over NE. slope to sec. cor.
- 80.00 Point for the cor. of secs. 27, 28, 33, and 34.
Set an iron post 30 ins. long, $2\frac{1}{2}$ ins. diam., 6 ins. in the ground to solid rock, and in a mound of stone to top, with brass cap mkd.

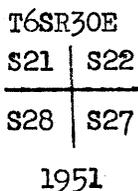


Land, broken and mountainous.
Soil, adobe clay and rocky.
Timber, scattering juniper; undergrowth, scattering mesquite, yucca and catclaw.

- N. $0^{\circ} 02'$ W., bet. secs. 27 and 28.
Ascend 15 ft. over mountainous land, through scattering timber.
- 6.60 Top of spur, slopes NE.; desc. 269 ft. over steep NE. slope.
- 28.50 Small ravine, drains NW.; asc. 75 ft. along W. slope of ridge.
- 40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 27 and 28.
Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground and in a mound of stone to top, with brass cap mkd.



- raise a mound of stone, $2\frac{1}{2}$ ft. base, 2 ft. high, W. of cor.
Continue asc. 64 ft.
- 51.70 Top of ascent; desc. 249 ft. along W. slope of ridge.
- 65.70 Ravine, drains W.; asc. 47 ft. over SW. slope to cor.
- 80.00 Point for the corner of secs. 21, 22, 27, and 28.
Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 14 ins. in the ground to solid rock, and in a mound of stone to top, with brass cap mkd.



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

Survey of Sections 28 and 33, T. 6 S., R. 30 E.

From this corner an earth reservoir bears S. $36^{\circ} 50'$ W., 20.24 chs. dist.

Land, broken and mountainous.

Soil, adobe clay and rocky.

Timber, scattering juniper; undergrowth, ocotillo, catclaw, yucca and mesquite.

From the corner of secs. 4, 5, 32, and 33, on the S. bdy. of the Tp., which is monumented with an iron post, 2 ins. diameter, set, marked and witnessed as described in the official record.

N. $0^{\circ} 02'$ W., bet. secs. 32 and 33.

Over mountainous land, through scattering timber.

1.80 Desc. 31 ft. along W. slope of hill.

6.90 Ravine, drains W.; asc. 151 ft. over S. slope of spur.

20.50 Top of spur, slopes W.; desc. 273 ft. over N. slope of spur.

32.90 Ravine, drains N. 70° W., continue descent.

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., 18 ins. in the ground to solid rock, and in a mound of stone to top, with brass cap mkd.

$\frac{1}{4}$
 S32 | S33
 1951

58.90 A wash, 30 lks. wide, 2 ft. deep, drains NE.; asc. 59 ft. over S. slope of spur to sec. cor.

63.14 U.S. Highway No. 666, bears NE. and SW.

71.90 Ravine, drains E.

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

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 24 ins. in the ground, with brass cap mkd.

T6SR30E
 S29 | S28
 S32 | S33
 1951

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

Land, broken and mountainous.

Soil, adobe clay and rocky.

Timber, scattering juniper; undergrowth, scattering ocotillo, catclaw and mesquite.

From the corner of secs. 27, 28, 33, and 34.

West, bet. secs. 28 and 33.

Asc. 21 ft. over E. slope, through scattering timber.

2.20 Top of ridge, bears N. and S.; desc. 417 ft. over W. slope of spur to $\frac{1}{4}$ sec. cor.

Survey of Sections 28 and 33, T, 6 S., R. 30 E.

Chains	
26.04	Drain, drains WNW.
39.92	Point for the $\frac{1}{4}$ sec. cor. of secs. 28 and 33. Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd. $\begin{array}{c} \frac{1}{4} \text{ S 28} \\ \hline \text{S 33} \\ 1951 \end{array}$ raise a mound of stone, $2\frac{1}{2}$ ft. base, 2 ft. high, N. of cor.
41.20	A wash, 40 lks. wide, 3 ft. deep, drains NW.; asc. 116 ft. over E. slope of spur.
41.93	A wire fence, bears N. and S.
51.40	Top of spur, slopes N.; desc. 111 ft. over W. slope of spur.
58.24	A wash, 40 lks. wide, 3 ft. deep, drains N.; asc. 142 ft. along S. slope of spur.
65.33	U.S. Highway No. 666, bears NE. and SW.
79.84	The corner of secs. 28, 29, 32, and 33. Land, broken and mountainous. Soil, adobe clay and rocky. Timber, scattering juniper; undergrowth, yucca, catolaw and mesquite.
	N. 0° 02 W., bet. secs. 28 and 29. Asc. 119 ft. over S. slope of spur, through scattering timber.
16.90	Top of spur, slopes E.; desc. 182 ft. over N. slope.
29.00	Ravine, drains E.; asc. 161 ft. over S. slope.
40.00	Point for the $\frac{1}{4}$ sec. cor. of secs. 28 and 29. Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap mkd. $\begin{array}{c} \frac{1}{4} \\ \text{S29} \mid \text{S28} \\ 1951 \end{array}$ raise a mound of stone, $2\frac{1}{2}$ ft. base, 2 ft. high, W. of cor.
54.30	Top of spur, slopes E.; desc. 434 ft. over steep N. slope.
80.00	Point for the corner of secs. 20, 21, 28, and 29. Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 14 ins. in the ground to solid rock, and in a mound of stone to top, with brass cap mkd. $\begin{array}{c} \text{T6SR30E} \\ \text{S20} \mid \text{S21} \\ \hline \text{S29} \mid \text{S28} \\ 1951 \end{array}$ raise a mound of stone, $2\frac{1}{2}$ ft. base, 2ft. high, W. of cor.

Survey of Sections 28 and 33, T. 6 S., R. 30 E.

Chains

Land, broken and mountainous.
Soil, adobe clay and rocky.
Timber, scattering juniper; undergrowth, scattering yucca, catclaw and mesquite.

From the corner of secs. 21, 22, 27, and 28.

West, bet. secs. 21 and 28.

Desc. 185 ft. over steep W. slope.

6.75 Foot of descent.

7.65 A wash, 40 lks. wide, 4 ft. deep, drains N.; asc. 336 ft. over SE. slope. to $\frac{1}{4}$ sec. cor.

12.40 U.S. Highway No. 666, bears N. 30° E. and S. 30° W.

39.92 Point for the $\frac{1}{2}$ sec. cor. of secs. 21 and 28.

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

$\frac{1}{4}$ S 21
 $\frac{1}{4}$ S 28
 1951

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

From the $\frac{1}{4}$ sec. cor. the N. end of guard-rail on E. side of Highway, bears S. 2° 06' E., 36.39 chs. dist.

Continue asc. 72 ft.

49.35 Top of ascent, thence desc. 182 ft. along a SW. slope.

73.05 A wash, 20 lks. wide, 2 ft. deep, drains SE.; asc. 111 ft. along N. slope to cor.

79.84 The corner of secs. 20, 21, 28, and 29.

Land, broken and mountainous.
Soil, adobe clay and rocky.
Timber, scattering juniper; undergrowth, scattering yucca, catclaw and mesquite.

General Description

The land in Sections 28 and 33, Township 6 South, Range 30 East, is broken and mountainous, with slopes up to 450 feet. The surface is covered with malpais stone. The soil is an adobe clay. The main drainage is to the north and northeast. Timber consist of very scattering juniper, undergrowth, ocotillo, catclaw, yucca and mesquite.

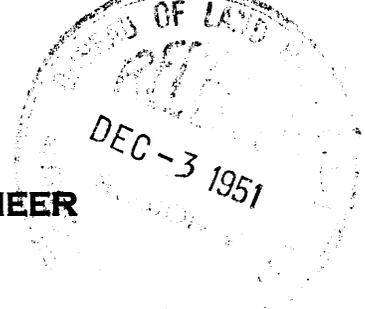
U.S. Highway No. 666 which is a good black top road enters the NW $\frac{1}{4}$ of section 33 and crosses the two sections in a northeasterly direction leaving on the north boundary of section 28, about 12.00 chains west of the northeast corner of the section.

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BOOK 4887

CERTIFICATE OF CADASTRAL ENGINEER



We, Ty White and Clarence E. Bilbray, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 26 day of July, 1951 We have surveyed sections 28 and 33, Township 6 South, Range 30 East.

Gila and Salt River of the Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by ^{us}me and under ^{our}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.

Apache Junction, Ariz. November 30, 1951. cc Albuquerque, N.M. December 5, 1951.

Ty White Clarence E. Bilbray Cadastral Engineers

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT, Washington, D. C., FEB 25 1952, 19

The foregoing field notes of the survey of sections 28 and 33, Township 6 South, Range 30 East, of the Gila and Salt River Meridian, Arizona

executed by Ty White and Clarence E. Bilbray, Cadastral Engineers, having been critically examined and found correct, are hereby approved.

Acting 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, Division of Cadastral Engineering.