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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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U.S. LAND OFFICE
PHOENIX, ARIZONA

FEB 26 1951

FIELD NOTES

ECCO 4078

Of the Survey of

A portion of Subdivisional Lines

Continuing the Subdivision of

Township 5 South, Range 29 East,

Of the Gila and Salt River Meridian,

In the State of Arizona

EXECUTED BY

Ty White, Cadastral Engineer

Under special instructions dated October 9, 1950, which provided
for the surveys included under Group No. 272, approved October 20, 1950
and assignment instructions dated November 1, 1950.

Survey commenced November 9, 1950.

Survey completed November 10, 1950.

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INDEX DIAGRAM

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This survey is made pursuant to special instructions for Group 272, Arizona, to accommodate an application of the Phelps Dodge Corporation, to enable the applicant to acquire unappropriated public land in sec. 3.

The surveyed portion of the subdivisional lines of T. 5 S., R. 29 E. was surveyed by William B. Kimmel, in 1914. The North boundary of the township was resurveyed by Thorn and Kinsey, in 1921. This survey is a continuation of a portion of the subdivisional lines of the township.

The survey is executed with a Buff and Buff solar transit serial number 16724, constructed in accordance with the standard specifications of the Bureau of Land Management. The horizontal circle is provided with two double opposite verniers reading to single minutes, and the vertical circle with one double vernier reading to single minutes. The instrument is equipped with an improved telescopic solar attachment, with latitude and declination arcs reading to single minutes. This transit is in good condition, and is placed in proper adjustment and tested prior to beginning the survey.

The directions of the lines are determined by solar transit method, verified by an hour angle observation upon Polaris taken at the $\frac{1}{4}$ sec. cor. of sec. 3 on the N. bdy. of the township.

Measurements are made with a Luffkin steel tape, 5 chains in length, graduated every $\frac{1}{10}$ link for the first 10 links, every link for the following 90 links, and every 10 links for the remaining 400 links. The tape is tested by comparison with a standard steel tape, 1 chain long, kept for testing purposes, and is found correct. The measurements are made on the slope, and the vertical angle of each interval is ascertained by a clinometer in good adjustment; the horizontal equivalents are entered in the field note record.

Observation on Polaris for Azimuth

Nov. 9, 1950, at $\frac{1}{4}$ sec. cor. of sec. 3, on N. bdy. of T. 5 S., R. 29 E., G. and SR. Mer., in latitude $33^{\circ} 01' 46''$ N., and longitude $109^{\circ} 21' 06''$ W., and with standard time taken from radio time signals 5h. 09m. p.m., 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 angle from a well defined point on the skyline about 2 miles northerly, clockwise to Polaris.

Standard time of observation.....	5h 09m 00s p.m.
Mean horizontal angle	$11^{\circ} 45' 00''$
Azimuth of Polaris	N. $1^{\circ} 08' 48''$ E.
True bearing of point on skyline	N. $10^{\circ} 36' 12''$ W.

Chains

Continuing a Portion of the Subdivision of T. 5 S., R. 29 E.

Beginning at the cor. of secs. 9, 10, 15 and 16, which is an iron post, 2 ins. diam., firmly set in the ground, mkd. and witnessed as described in the official record.

N. $0^{\circ} 02'$ E., bet. secs. 9 and 10.

Over mountainous land, through scattering timber; descend 282 ft. over N. slope.

13.50 Wash, 30 lks. wide, course E.; ascend 243 ft. over S. slope.

25.10 Top of short spur, slopes SE., thence across head of ravine draining E.

33.70 Top of spur, slopes E.; descend 127 ft. over N. slope.

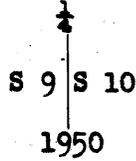
40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 9 and 10.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground,

Continuing a Portion of the Subdivision of T. 5 S., R. 29 E.

Chains

with brass cap mkd.



raise a mound of stone, 2½ ft. base, 2 ft. high, W. of cor.

Descend 57 ft. over N. slope.

43.55 Wash, 12 lks. wide, course E. for 2 chs. then NE.; ascend S. slope.

45.00 Spur, slopes N.; descend slightly.

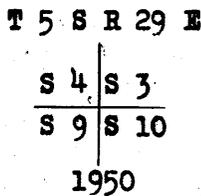
48.50 Wash, 50 lks. wide, course SE.; along W. slope.

57.70 Wash, 20 lks. wide, course SW.; ascend 173 ft. over SE. slope.

66.60 Spur, slopes SW.; continue ascend 63 ft. over SW. slope.

80.00 Point for the cor. of secs. 3, 4, 9 and 10.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, with brass cap mkd.



raise a mound of stone, 3 ft. base, 2½ ft. high, W. of cor.

Land, mountainous.
Soil, sandy and rocky.
Timber, juniper and catclaw.
Undergrowth, cacti and yucca.

From the cor. of secs. 2, 3, 10 and 11, which is an iron post, 2 ins. diam., firmly set in the ground, mkd. and witnessed as described in the official record.

N. 89° 57' W., bet. secs. 3 and 10.

Over mountainous land, through scattering timber and undergrowth; ascend 36 ft. over E. slope.

2.00 Top of long spur, slopes S.; descend 90 ft. over W. slope.

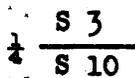
11.80 Top of short spur, slopes SW.; descend 190 ft. over W. slope.

21.10 Silver Basin Creek, perpendicular walls 50 ft. high, wash in bottom 100 lks. wide, course S.; ascend 151 ft. over SE. slope.

31.00 Top of spur, slopes NE.; thence along N. slope to ¼ sec. cor.

39.96 Point for the ¼ sec. cor. of secs. 3 and 10.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, with brass cap mkd.



1950
raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.

Ascend 160 ft. along N. slope.

56.55 Wash, 12 lks. wide, course NE.; ascend 70 ft. along broken N. slope.

Continuing a Portion of the Subdivision of T. 5 S., R. 29 E.

Chains	
68.50	Wash, 8 lks. wide, course NNE. ; ascend 205 ft. over E. slope.
79.30	Top of spur, slopes S.
79.92	The cor. of secs. 3, 4, 9 and 10. Land, mountainous. Soil, sandy and rocky. Timber, juniper and catclaw. Undergrowth, cacti and yucca.
	N. 0° 06' E., bet. secs. 3 and 4. Over mountainous land, through scattering timber and undergrowth; ascend slightly along top of spur.
1.00	Spur, slopes S. from NW.; descend 132 ft. over NE. slope.
9.80	Wash, 10 lks. wide, course SE.; ascend 40 ft. over SE. slope.
15.30	Top of spur, slopes E.; descend 232 ft. over NE. slope.
28.50	Wash, 70 lks. wide, course SE.; ascend 65 ft. along W. slope.
38.20	Wash, 20 lks. wide, course S. 20° W.; ascend 12 ft. over SE. slope.
40.00	Point for the $\frac{1}{4}$ sec. cor. of secs. 3 and 4. Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, with brass cap mkd. <div style="text-align: center;"> $\frac{1}{4}$ S 4 S 3 1950 </div> raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Ascend 299 ft. along E. slope.
72.20	Top of spur, slopes SE. for 4 chs. thence S.; descend 54 ft. across head of gulch, draining E.
76.20	Top of spur, slopes E.; descend 46 ft. over NE. slope.
78.75	Head of gulch draining NE.
80.28	Intersect N. bdy. of the Tp. at the cor. of secs. 3 and 4 only, which is monumented with an iron post, 3 ins. diam., firmly set in the ground, mkd. and witnessed as described in the official record of 1921 resurvey of S. bdy. of T. 4 S., R. 29 E. From point of intersection the cor. of secs. 33 and 34 only, T. 4 S., R. 29 E., bears East, 35.00 chains dist. and is monumented with an iron post, 2 ins. diam., firmly set, mkd. and witnessed as described in the record of the 1921 resurvey of the S. bdy. of the Tp. From the same point the $\frac{1}{4}$ sec. cor. on S. bdy. of sec. 33, T. 4 S., R. 29 E., bears West, 4.90 chains dist., and is monumented with an iron post, 1 in. diam., firmly set, mkd. and witnessed as described in the record of the 1921 resurvey of the S. bdy. of the Tp. Land, mountainous. Soil, sandy and rocky. Timber, juniper and catclaw. Undergrowth, cacti and yucca.

Continuing a Portion of the Subdivision of T. 5 S., R. 29 E.

General Description

The area in secs. 3 and 10 is broken and mountainous. The soil is sandy and rocky. The vegetation covering is juniper, catclaw, cacti and yucca. the area is about 5 miles SW. of Clifton, Arizona.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Jesse A. Livesay	Surveying and Cartographic Aid.
Abenicio Crespín	H H H H
Max Lester	H H H H
Charles R. Byrne	H H H H

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CERTIFICATE OF CADASTRAL ENGINEER

I, Ty White, Cadastral Engineer, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 9th day of October, 1950 I have surveyed between secs. 9 and 10, 3 and 10 and 3 and 4, extending sub-
divisional lines of T. 5 S., R. 29 E.,

of the Gila & Salt Riv. 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.

Quartzsite, Arizona
December 21, 1950.

Ty White
Ty White
Cadastral Engineer.

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., FEB 14 1951, 19

The foregoing field notes of the survey of between secs. 9 and 10, 3 and 10 and 3 and 4,
extending subdivisioal lines of T. 5 S., R. 29 E., G. & SR. Mer., Arizona

executed by Ty White, Cadastral Engineer
having been critically examined and found correct, are hereby approved.

Carl G. Harrington
Chief, Branch of Engineering and Construction,
Chief, Division of
Cadastral

~~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.~~