

Original

4-679  
(April 1933)

Book B.

# FIELD NOTES

OF THE

Metes-and-Bounds Survey of bodies of land classified  
as mineral bearing, but not covered by mineral patent  
survey, included within the Junction and Intervenor  
Mining Claims

in

Section 3, Township 13 South, Range 14 East and  
Section 34, Township 12 South, Range 14 East

Of the Gila and Salt River Meridian,

In the State of Arizona

EXECUTED BY

Horace M. Muscott, Public Land Surveyor,

Under special instructions dated July 24, 1935, which provided  
for the surveys included under Group No. 205, bearing the approval of the  
Commissioner of the General Land Office under date of August 2, 1935,  
and assignment instructions dated February 4, 1936.

Survey commenced May 6, 1937.

Survey completed May 8, 1937.

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*Handwritten notes:*  
1/15/37  
at 10:15  
see also...



BOOK 4186

# INDEX DIAGRAM.

Township 13 South, Range 14 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
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Junction  
Intervenor

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Mineral Segregation Survey.

The survey was executed with Buff light mountain transit No. 16723, of 1924 model, property of the General Land Office. The instrument is equipped with full vertical circle and the improved Smith solar attachment. Having been placed in satisfactory adjustment prior to beginning the survey and tested and found free from appreciable error, the instrument was approved by the District Cadastral Engineer on February 4, 1936, conditional upon satisfactory field tests. I examined all the instrumental adjustments before making the field tests hereinafter recorded.

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

March 9, 1937, in camp about 1½ miles south of Mohawk, Arizona, in latitude 32°42'N. and longitude 113°45'W., as determined from a state map, at 8h 28m p.m., l.m.t., or 9h 3m p.m. by my watch, which reads correct 105th meridian as determined by radio signals, I observe Polaris at western elongation, making three sights each with the telescope in direct and reversed positions, and place a nail at the mean point, on a peg driven firmly in the ground 10 chs. N.

March 10, at 7h 00m a.m., I lay off the azimuth of Polaris 1°13½' to the east of the point previously set.

Every 30 minutes from 7 to 10:30 a.m. and from 1:30 to 5 p.m., I make proper settings on the arcs of the solar attachment and ascertain that the resulting orientation of the instrument, when compared with the meridian established by Polaris observation, has a maximum error of less than 1'30".

At 2h 30m a.m., l.m.t. or 3h 4m a.m. by my watch, I observe Polaris at lower culmination, to verify the latitude of this station.

Mean observed vertical angle -----31°41'45"  
Reduced latitude -----32°42'00"

Metes-and-bounds survey of bodies of land classified as mineral bearing, but not covered by mineral patent survey, in sec. 3, T.13 S., R.14 E. and sec. 34, T.12 S., R.14 E., G. & S.R.B. & M., Arizona.

JUNCTION MINING CLAIM.

The position of the claim was determined from the discovery monument, and the calls of the location notice. The mineral claimant was not on the ground.

Set an iron post, 3 ft. long, 1 in. diam., on surface rock supported in a mound of stone, for cor. No. 1 of the Junction Mining Claim, with brass cap mkd.

J 1

1937

from which

The ¼ sec. cor. on N. bdy. of sec. 3, T.13 S., R.14 E., bears S.75°28'W., 7.076 chs. dist.; an iron post, 1 in.

## Mineral Segregation Survey.

Chains	diam., mkd. and witnessed as described in the official record.
	Thence
	West, on N. side line of the Junction Mining Claim.
	Over mountainous land. Desc.
3.50	Gulch, course SW.; asc. 73 ft. over SE. slope.
7.00	Spur, slopes SE.
10.70	Desc. 85 ft. over NW. slope.
16.50	Gulch, course SE.; asc. 32 ft.
17.21	Trail, bears N. and S.
18.70	Spur, slopes SW.; desc. 97 ft. over NW. slope.
22.72	Set an iron post, 3 ft. long, 1 in. diam., on bed rock, supported in a mound of stone 5 ft. base, to top of post, for cor. No. 2 of the Junction Mining Claim, with brass cap mkd.
	<div style="border: 1px solid black; display: inline-block; padding: 2px;">J 2</div> 1937
	from which
	The $\frac{1}{4}$ sec. cor. on N. bdy. of sec. 3, T.13 S., R.14 E., bears S. $83^{\circ}38'E.$ , 15.98 chs. dist.
	Thence
	South, on W. end line of the Junction Mining Claim.
	Asc. 27 ft. over NW. slope.
1.77	Intersect the township line bet. Tps. 12 and 13 S.
	From this point the $\frac{1}{4}$ sec. cor. on N. bdy. of sec. 3, bears East, 15.88 chs. dist.
	From the same point, the cor. of secs. 3, 4, 33 and 34, Ts. 12, 12 $\frac{1}{2}$ and 13 S., R. 14 E., bears West, 24.22 chs. dist.; an iron post, 2 ins. diam., 18 ins. above ground, in mound of stone, with brass cap mkd. as described in the official record.
3.40	Spur, slopes SW.; desc. 117 ft. over S. slope, to cor. No. 3.
4.54	Point for W. end center of the Junction Mining Claim.
	From this point, the discovery monument, bears East, 11.36 chs. dist.; a mound of stone 4 ft. base, 2 $\frac{1}{2}$ ft. high.
	From the discovery monument, a tunnel, 4 ft. wide, 4 ft. high and 8 ft. long, bears West, about 50 lks. dist.
8.77	Set an iron post, 3 ft. long, 1 in. diam., on bed rock, in a mound of stone, for cor. No. 3 of the Junction Mining Claim, with brass cap mkd.
	<div style="border: 1px solid black; display: inline-block; padding: 2px;">J 3</div> 1937
	Thence
	East, on south side line of the Junction Mining Claim.

## Mineral Segregation Survey.

- Chains Desc. 80 ft. over broken SE. slope.
- 11.40 Asc. 64 ft. over SW. slope.
- 22.72 Set an iron post, 3 ft. long, 1 in. diam., on bed rock, supported in a mound of stone, 5 ft. base to top of post, for cor. No. 4 of the Junction Mining Claim, with brass cap mkd.
- J 4  
1937
- Thence
- North, on E. end line of the Junction Mining Claim.
- Asc. 370 ft. over S. slope to Cor. No. 1.
- 4.23 Point for E. end center of the Junction Mining Claim.
- 6.995 Intersect the township line bet. Ts. 12 and 13 S., R. 13 E.
- From this point the  $\frac{1}{4}$  sec. cor. on N. bdy. of sec. 3, bears West, 6.85 chs. dist.
- From the same point, the cor. of secs. 2 and 3, T. 13 S., R. 14 E., bears East, 33.25 chs. dist.; an iron post, 2 ins. diam., set in mound of stone, with brass cap mkd. as described in the official record.
- 8.77 Cor. No. 1, and place of beginning.

## INTERVENOR MINING CLAIM.

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 The position of the claim was determined from the discovery monument, and the calls of the location notice. The mineral claimant was not on the ground.  
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At a point on the south side line of the Junction Mining Claim,

Set an iron post, 3 ft. long, 1 in. diam., on bed rock, supported in a mound of stone, 5 ft. base to top of post, for cor. No. 1 of the Intervenor Mining Claim, with brass cap mkd.

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From this point, cor. No. 4 of the Junction Mining Claim bears East, 1.085 chs. dist.

Thence

West, on N. side line of the Intervenor Mining Claim, identical with the S. side line of the Junction Mining Claim.

- 21.635 Cor. No. 3 of the Junction Mining Claim, hereinbefore described.

Continue west, on N. side line of the Intervenor Mining Claim.

- 22.72 Set an iron post, 3 ft. long, 1 in. diam., on bed rock, supported in a mound of stone, 5 ft. base, to top of post for cor. No. 2 of the Intervenor Mining Claim, with brass cap mkd.

## Mineral Segregation Survey.

Chains

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Thence

South, on West end line of the Intervenor Mining Claim.

- 1.16 Intersect the N. side line of the Saratoga patented mining claim.

From this point, cor. No. 2 of the Saratoga, identical with cor. No. 3 of the Climax patented mining claim, bears S.64°02'E., 6.81 chs. dist.; an iron post  $1\frac{1}{2}$  ins. diam., set in a mound of stone and marked as described in the official record. Both mining claims are of Sur. No. 3969.

- 4.34 Point for west end center of the Intervenor Mining Claim.

From this point, the discovery monument bears East, 7.57 chs. dist.; a mound of stone 4 ft. base, 3 ft. high.

- 8.88 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, 5 ft. base to top of post, for cor. No. 3 of the Intervenor Mining Claim, with brass cap mkd.

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Thence

East, on South side line of the Intervenor Mining Claim.

- 4.70 Desc. 90 ft. over SE. slope.
- 11.09 Trail, bears S.65°E. and N.65°W.
- 16.30 Intersect line 2-3 of the Climax patented mining claim.
- From this point, cor. No. 3 of the Climax, identical with cor. No. 2 of the Saratoga patented mining claim, bears N.65°02'W., 11.22 chs. dist.; hereinbefore described.

Asc. slightly.

- 20.00 Low spur, slopes SE.
- 22.72 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone 5 ft. base to top of post, for cor. No. 4 of the Intervenor Mining Claim, with brass cap mkd.

I 4

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From this cor., U.S.L.M. No. 3969 bears S.15°41'W., 51.50 chs. dist.; an iron pipe, 3 ins. diam., set in a mound of stone and marked as described in the official record.

Thence

North, on East end line of the Intervenor Mining Claim.

Asc. 170 ft. over S. slope to cor. No. 1.

- 4.54 Point for E. end center of the Intervenor Mining Claim.
- 8.88 Cor. No. 1, and place of beginning.

## Final Test of Solar Attachment.

May 14: On the Polaris meridian hereinbefore described, at 7h 00m a.m., app.t., I set off  $32^{\circ}42'N.$  on the latitude arc;  $18^{\circ}38'N.$  on the declination arc; and orient the instrument with the solar; the line of sight agrees with the meridian established by Polaris observation.

At 5h 00m p.m., app.t., with the latitude arc unchanged, I set off  $18^{\circ}44\frac{1}{2}'N.$  on the declination arc and repeat the test of the solar; the line of sight agrees with the meridian established by Polaris observation.

May 14, 1937.





CERTIFICATE OF UNITED STATES SURVEYOR

I, Horace M. Muscott, Public Land Surveyor, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 24th day of July, 1935 received from the district cadastral engineer for Arizona, with assignment instructions dated February 4, 1936, I have surveyed by Metes-and-Bounds, bodies of land classified as mineral bearing, included within the Junction and Intervenor Mining Claims, in Sec. 3, T.13 S., R.14 E., and sec. 34, T.12 S., R.14 E., of the Gila and 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.

Heber, Arizona  
Sept. 5, 1937

Horace M. Muscott  
Public Land Surveyor.

CERTIFICATE OF APPROVAL

OFFICE OF U.S. SUPERVISOR OF SURVEYS,  
Denver, Colorado, September 14, 1937.

The foregoing field notes of the survey of bodies of land classified as mineral bearing, included within the Junction and Intervenor Mining Claims in sec. 3, T.13 S., R.14 E., and sec. 34, T.12 S., R.14 E., of the Gila and Salt River Meridian in the state of Arizona, executed by Horace M. Muscott, Public Land Surveyor under special instructions dated July 24, 1935, and assignment instructions dated February 4, 1936, having been critically examined, and the necessary corrections made prior to their certification by the engineer, the said field notes, and the survey therein described, are hereby approved.

[Signature]  
U.S. 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.~~

U.S. Supervisor of Surveys.