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4023

Original

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Book I

FIELD NOTES

BOOK 4023

of the

dependent resurvey of the section boundaries, and the metes-and-
bounds survey of a body of land classified as mineral bearing, in-
cluded within the Mercury Mining Claim, in section 26, Township 3
North, Range 3 East.

4023

Of the Gila and Salt River Meridian,

In the State of Arizona

EXECUTED BY

Francis E. Joy, U. S. Cadastral Engineer.

In the capacity of U. S. Surveyor..., under Special Instructions dated January 26,
1933, issued by the District Cadastral Engineer to govern surveys included in Group
No. 176, which were approved by the Commissioner of the General Land
Office, February 6, 1933, and Assignment Instructions dated February 28, 1933.

Survey commenced March 27, 1933.

Survey completed March 30, 1933.

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BOOK 4023

INDEX DIAGRAM.

Township 3 North, Range 3 East

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Mercury Mining Claim

Resurvey of a portion of the Subdivisions of
T. 3 N., R. 3 E.

BOOK 4023

Chains.

The surveys and resurveys recorded herein were executed with a light mountain transit made by Buff & Buff, Serial No. 16723, constructed in accordance with the standard specifications of the General Land Office. The horizontal circle has a diameter of $4\frac{1}{2}$ inches, with two double opposite verniers reading to single minutes; the vertical circle has a diameter of 4 ins., with one double vernier reading to single minutes. The instrument is equipped with the improved Smith solar attachment; radius of the latitude arc $2\frac{1}{2}$ inches, and of declination arc $3\frac{1}{2}$ inches, each with verniers reading to single minutes. The instrument was in good condition, and having been placed in satisfactory adjustment prior to beginning the survey, and tested and found free from appreciable error, was approved by the district cadastral engineer on February 28, 1933. I examined all the instrumental adjustments before making the field tests hereinafter described.

The directions of all lines were determined by the solar transit method. The measurements were made with a Lallie steel tape, 5 chains in length, graduated every link for the first 100 links, and the remainder at intervals of 10 links. The tape was tested by comparison with a Keuffel & Esser 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 27, 1933, near the center of sec. 26, T. 3 N., R. 3 E., latitude $33^{\circ} 34'$ N., longitude $112^{\circ} 02'$ W., at 6h 26m p.m., l.m.t. or 6h 54m p.m. by my watch, which reads correct 105th meridian time as determined by a Western Union clock, I make an hour angle observation on Polaris, west of the meridian for latitude and azimuth, three each with the telescope in direct and reversed positions, reading the vertical angle, and reading the horizontal deflection angle from a cactus on sky line about $1\frac{1}{2}$ miles distant in the direction N-W to Polaris.

Mean horizontal angle cactus to star	$2^{\circ} 10' 00''$	✓
Azimuth of Polaris	$1^{\circ} 14' 30''$ W.	✓
True bearing to cactus	N. $0^{\circ} 55' 30''$ E.	✓
Mean observed vertical angle	$33^{\circ} 49' 18''$	✓
Reduced latitude	$33^{\circ} 34' 09''$ N.	✓

Instrument in continuous use therefore preliminary and final tests are combined as follows:

March 30, 1933: Every hour from 8 to 11 a.m. and from 1 to 5 p.m., I make proper settings of 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 $1\frac{1}{2}'$.

I repeat the tests of the arcs daily by noon observation and verify the meridional indications at frequent intervals throughout the survey.

RESURVEY OF A PORTION OF THE SUBDIVISIONS OF
T. 3 N., R. 3 E.

Chains.

Reestablishment of the surveys executed by J. H. Martineau, U. S. Deputy Surveyor, in 1893.

From the cor. of secs. 25, 26, 35 and 36.

North, on a random line bet. secs. 25 and 26.

39.78 Fall 22 lks. E of the $\frac{1}{4}$ sec. cor.

Thence from the $\frac{1}{4}$ sec. cor.

North, on a random line bet. secs. 25 and 26, $N\frac{1}{2}$.

39.79 Fall 68 lks. E. of the cor. of secs. 23, 24, 25 and 26.

Returning to the cor. of secs. 25, 26, 35 and 36, which is a green slate rock, 8x 6 x 10 ins. above ground, firmly set, marked with 1 notch on S. and E. edges. Alongside

Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the ground, for cor. of secs. 25, 26, 35 and 36, with brass cap mkd.

T3N	R3E
S26	S25
S35	S36

1933

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

Thence

N. $0^{\circ} 19'$ W., on a true line bet. secs. 25 and 26.

Over rolling land, through scattering timber.

.25 SE. cor. of fence, bears W. 50 lks. dist.

6.10 Draw, 20 lks. wide, 6 ft. deep, course NE.

22.15 Draw, 10 lks. wide, 4 ft. deep, course NW.

38.83 NE. cor. of same fence, bears E. 60 lks. dist.

39.45 Enter graded road, (Shea Boulevard) bears W. and N. along sec. line.

39.78 The $\frac{1}{4}$ sec. cor., which is an iron pipe, 1 in. diam., 2 ins. below the surface. Alongside.

Set an iron post, 3 ft. long, 1 in. diam., 38 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

$\frac{1}{4}$
S26 S25

1933

At points N. 45° W. and S. 45° E., 71 lks. dist.

Set iron posts, 3 ft. long, 1 in. diam., 28 ins. in the ground, for witness $\frac{1}{4}$ sec. cors., with brass caps mkd.

W C
$\frac{1}{4}$
S26 S25

1933

RESURVEY OF A PORTION OF THE SUBDIVISIONS OF
T. 3 N., R. 3 E.

4023

Chains.

The point for the $\frac{1}{4}$ sec. cor. was identified on the ground by Mr. Bartlett, Engineer for the Verde River Irrigation & Power District. He stated that the original corner was formerly in place alongside the iron pipe.

Thence

N. $0^{\circ} 59'$ W., on a true line bet. secs. 25 and 26, $N\frac{1}{2}$.

Over nearly level land along road. (Shea Boulevard)

39.80

The cor. of secs. 23, 24, 25 and 26, which is a granite rock, 5 x 4 ins., 6 ins. below the surface, marked with a cross (X) on top, 2 notches on S. and 1 notch on E. edges. Alongside

Set an iron post, 3 ft. long, 2 ins. diam., 40 ins. in the ground, for cor. of secs. 23, 24, 25 and 26, with brass cap mkd.

T3N	R3E
S23	S24
S26	S25

1933

At points N. 45° E., S. 45° E., S. 45° W., and N. 45° W., 71 lks. dist., no 2 inch posts available.

Set iron posts, 3 ft. long, 1 in. diam., 30 ins. in the ground, for witness cors. to cor. of secs. 23, 24, 25 and 26, with brass caps mkd.

W C	
T3N	R3E
S23	S24
S26	S25

1933

The cor. of secs. 23, 24, 25 and 26 was identified by Mr. Bartlett, Engineer for the Verde River Irrigation & Power District, he having removed the old stone, which was broken, and its place set the stone described.

Land, level and rolling.

Soil, gravelly; 2nd and 3rd rates.

Timber, palo verde, mesquite and ironwood; undergrowth, greasewood, sage and cacti.

From the cor. of secs. 25, 26, 35 and 36.

West, on a random line bet. secs. 26 and 35.

38.82

Fall 4.01 chs. N. of the $\frac{1}{4}$ sec. cor.

Thence from the $\frac{1}{4}$ sec. cor.

West, on a random line bet. secs. 26 and 35, $W\frac{1}{2}$.

44.29

Fall 88 lks. S. of the cor. of secs. 26, 27, 34 and 35.

Returning to the cor. of secs. 25, 26, 35 and 36 thence

S. $84^{\circ} 06'$ W., on a true line bet. secs. 26 and 35.

Over rolling land through scattering timber, and along S. side of fence.

5.70

Draw, 10 lks. wide, 3 ft. deep, course NE.

RESURVEY OF A PORTION OF THE SUBDIVISIONS OF
T. 3 N., R. 3 E.

Chains.
7.90 Fence turns NW.
9.30 Road, bears NW. and S.
10.00 NE. end of a reef of rock, 20 ft. high.
12.80 Road, bears NE. and SW.
34.00 SE. end of a range of low hills.
39.03 The $\frac{1}{4}$ sec. cor., which is a green slate rock, 14 x 8 x 4 ins., set in a mound of stone, and marked $\frac{1}{4}$ on N. face. Alongside
Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to bedrock, with a granite rock, 8 x 8 x 3 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.

1	S26
4	S35

1933

Thence
N. 88° 52' W., on a true line bet. secs. 26 and 35, W $\frac{1}{2}$.
Over rolling desert hills, through scattering timber and undergrowth.
10.40 Draw, 10 lks. wide, 10 ft. deep, course NW.
16.60 Bottom of draw, 10 lks. wide, 15 ft. deep, course N.
22.18 Small spur, slopes N. Descend 55 ft. over NW. slope.
25.80 Bottom of gulch, 30 lks. wide, 15 ft. deep, course SW.
28.85 Graded road, (Shea Boulevard) bears NE. and SW.
30.10 Draw, 10 lks. wide, 8 ft. deep, course SW. Ascend 69 ft. over SE. slope.
38.78 Small spur, slopes S. Descend 59 ft. over SW. slope.
41.00 Gulch, 10 lks. wide, 6 ft. deep, course S. Ascend 68 ft. over E. slope to
44.30 Cor. of secs. 26, 27, 34 and 35, which is a granite rock, 6 x 5 x 8 ins. above ground, firmly set, marked and witnessed as described in the official record. Alongside
Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground to bedrock, with a granite rock, 8 x 7 x 2 ins., mkd. X, deposited at the base, and in a mound of stone to top, for cor. of secs. 26, 27, 34 and 35, with brass cap mkd.

T3N	R3E
S27	S26
S34	S35

1933

Land, hilly.
Soil, stony; 4th rate.
Timber, palo verde, and ironwood; undergrowth, greasewood, sage and cacti.

RESURVEY OF A PORTION OF THE SUBDIVISIONS OF
T. 3 N., R. 3 E.

4028

Chains.	Thence
	North, on a random line bet. secs. 26 and 27.
40.13	Fall 45 lks. W. of the $\frac{1}{4}$ sec. cor. Thence from the $\frac{1}{4}$ sec. cor. North, on a random line bet. secs. 26 and 27, $N\frac{1}{2}$.
41.26	Fall 138 lks. W. of the cor. of secs. 22, 23, 26 and 27. Returning to the cor. of secs. 26, 27, 34 and 35. N. $0^{\circ} 39'$ E., on a true line bet. secs. 26 and 27. Over rolling desert hills, through scattering timber and desert undergrowth.
11.30	Gulch, 20 lks. wide, 6 ft. deep, course SE.
21.05	Draw, 10 lks. wide, 5 ft. deep, course NE.
27.65	Gulch, 20 lks. wide, 12 ft. deep, course SE.
40.13	The $\frac{1}{4}$ sec. cor., which is a black rock, 8 x 6 x 10 ins. above ground, firmly set in ground and mound of stone, marked $\frac{1}{4}$ on W. face. Alongside Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd. $\begin{array}{c} \frac{1}{4} \\ \\ S27 S26 \\ \\ 1933 \end{array}$ raise a mound of stone, 3 ft. base, 3 ft. high, W. of cor.
	Thence, N. $1^{\circ} 55'$ E., on a true line bet. secs. 26 and 27, $N\frac{1}{2}$.
3.40	Draw, 10 lks. wide, 6 ft. deep, course E.
14.00	House, bears E., 3.00 chs. dist.
26.46	Top of small rocky spur, slopes E.
41.28	The cor. of secs. 22, 23, 26 and 27, which is a granite stone, 6 x 5 x 4 ins. above ground, firmly set in a small mound of earth and stone, and marked with 2 notches on E. and S. edges. Alongside Set an iron post, 3 ft. long, 2 ins. diam., 14 ins. in the ground to bedrock, with a granite rock, 8 x 6 x 5 ins., mkd. X, deposited at the base, and in a mound of stone to top, for cor. of secs. 22, 23, 26 and 27, with brass cap mkd. $\begin{array}{c} T3N R3E \\ S22 S23 \\ \hline S27 S26 \\ 1933 \end{array}$
	Land, rolling and broken. Soil, gravelly and stony; 3rd and 4th rates. Timber, palo verde and ironwood; undergrowth, greasewood, sage and cacti.

RESURVEY OF A PORTION OF THE SUBDIVISIONS OF
T. 3 N., R. 3 E.

Chains.	Thence
	East, on a random line bet. secs. 23 and 26.
40.30	Fall 75 lks. S. of the $\frac{1}{4}$ sec. cor. Thence from the $\frac{1}{4}$ sec. cor. East, on a random line bet. secs. 23 and 26, $E\frac{1}{2}$.
40.06	Fall 65 lks. S. of the cor. of secs. 23, 24, 25 and 26. Thence S. $89^{\circ} 04'$ W., on a true line bet. secs. 23 and 26. Over gently rolling land, through scattering timber and undergrowth.
40.07	The $\frac{1}{4}$ sec. cor., which is a slate stone, 6 x 4 x 8 ins. above ground, firmly set, marked and witnessed as described in the official record. Alongside of the cor. Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd. $\frac{1}{4} \begin{array}{l} S23 \\ S26 \end{array}$ 1933 18 x 18 x 12 ins., E. and W. of cor., 3 ft. dist. Redig pits, Thence S. $88^{\circ} 56'$ W., on a true line bet. secs. 23 and 26, $W\frac{1}{2}$.
3.80	To NE. cor. of clearing.
10.00	To NW. cor. of clearing.
40.31	The cor. of secs. 22, 23, 26 and 27. Land, nearly level. Soil, gravelly; 2nd and 3rd rates. Timber, palo verde, mesquite and ironwood; undergrowth; greasewood, sage and cacti.

SURVEY OF THE MERCURY MINING CLAIM.

BOOK 4022

Chains.

Metes-and-bounds survey of a body of land classified as mineral bearing, but not covered by mineral patent survey in sec. 26, T. 3 N., R. 3 E.

The present claimant of the Mercury mining claim identified the position of the claim on the ground at the time of the survey.

Beginning at cor. No. 1 of the Mercury mining claim.

Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to bedrock, and in a mound of stone to top, for cor. No. 1, with brass cap mkd.

1 MER

1933

Corner No. 1 is set alongside of a corner of the location, which is a well built mound of stone, 3 ft. base, 5 ft. high.

The $\frac{1}{4}$ sec. cor. bet. secs. 26 and 27, hereinbefore described, bears N. 69° 37' W., 31.50 chs. dist.

A shaft, 6 x 4 ft., 52 ft. deep, bears N. 67° 00' E., 11.32 chs. dist.

Thence

N. 42° 32' E., along bdy. of the Mercury mining claim.

Over gently rolling land, through scattering palo verde and greasewood.

7.00 Low divide, bears E. and W.

21.22 N. edge of mound of stone, 3 ft. base, 4 ft. high.

22.74 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for cor. No. 2, with brass cap mkd.

2
MER

1933

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

Cor. No. 2 is identical with a cor. of the location, a mound of stone, 3 ft. base, 4 ft. high.

Thence

S. 37° 06' E., along bdy. of the Mercury mining claim.

Over nearly level land, through scattering palo verde and greasewood.

9.18 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for cor. No. 3, with brass cap mkd.


MER 3

1933

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

A corner of the location, bears N. 42° 57' E., 1.27 chs. dist.; a mound of stone, 4 ft. base, 3 ft. high.

SURVEY OF THE MERCURY MINING CLAIM.

Chains.	<p>The $\frac{1}{4}$ sec. cor. bet. secs. 25 and 26, hereinbefore described, bears N. 82° 12' E., 32.34 chs. dist.</p> <p>Thence</p> <p>S. 42° 57' W., along bdy. of the Mercury mining claim.</p> <p>Over rolling land, through scattering palo verde and greasewood.</p> <p>8.10 Road, bears E. and W. (Shea Boulevard.)</p> <p>9.00 Road, bears NW. and SE.</p> <p>10.00 Low divide, bears E. and W.</p> <p>19.70 Draw, 20 lks. wide, 3 ft. deep, course W.</p> <p>22.72 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to bedrock, with a granite stone, 8 x 6 x 3 ins., mkd. X., deposited at the base, and in a mound of stone to top, for cor. No. 4, with brass cap mkd.</p> <div style="text-align: center;">  <p>1933</p> </div> <p>A corner of the location, bears S. 42° 57' W., 42 lks. dist.; a mound of stone, 3 ft. base, 4 ft. high.</p> <p>Thence</p> <p>N. 37° 06' W., along bdy. of the Mercury mining claim.</p> <p>Over rolling land, through scattering palo verde and undergrowth.</p> <p>3.90 Draw, 20 lks. wide, 10 ft. deep, course SW.</p> <p>8.75 Road, bears E. and W. (Shea Boulevard.)</p> <p>9.02 Cor. No. 1 and place of beginning.</p> <p>Area of the Mercury mining claim 20.35 Acres.</p>
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For final test of the solar attachment on a meridian established by Polaris observation, see the preliminary test for T. 5 N., R. 4 E. of this group.
 March 30, 1933.

GENERAL DESCRIPTION.

Section 26, T. 3 N., R. 3 E. is gently rolling and through which a low divide bears E. and W.

The ground cover consists of scattering palo verde and a rather heavy growth of greasewood.

The soil in the $N\frac{1}{2}$ of the section is gravelly, 2nd rate, the remainder is rocky 4th rate.

A well and a vacant house in the $SW\frac{1}{4} NW\frac{1}{4}$, some clearing in the $NE\frac{1}{4} NW\frac{1}{4}$ and some fencing in the $SE\frac{1}{4}$ of the section covers the improvements noted.

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CERTIFICATE OF UNITED STATES SURVEYOR

I, Francis E. Joy, U.S. Cadastral Engineer, hereby certify upon honor that, in pursuance of special instructions received from the District Cadastral Engineer for Arizona bearing date of the 26th day of January, 1933, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, dependently resurveyed the section boundaries, and made a metes-and-bounds survey of a body of land classified as mineral bearing, included within the Mercury Mining Claim, in section 26, Township 3 North, Range 3 East,

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 all the corners of and resurvey said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the District Cadastral Engineer for Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey and resurvey. Glendale, California, August 2, 1934.

Francis E. Joy
U.S. Cadastral Engineer. ~~U.S. Surveyor~~

APPROVAL

OFFICE OF U. S. SUPERVISOR OF SURVEYS,
Denver, Colorado, October 13, 1934.

The foregoing field notes of the dependent resurvey of the section boundaries, and the metes-and-bounds survey of a body of land classified as mineral bearing, included within the Mercury Mining Claim, in section 26, Township 3 North, Range 3 East, of the Gila and Salt River Meridian, in the State of Arizona,

executed by Francis E. Joy, U.S. Cadastral Engineer, under his special instructions dated January 26, 1933, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys and resurveys they describe, are hereby approved.

Walter P. Carson
U. S. Supervisor of Surveys.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

U. S. Supervisor of Surveys.