

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FIELD NOTES

Of the Mineral Segregation Survey of the

Mesa Grande Mining Claim in

Section 8,

Township 9 North, Range 4 West.

Of the Gila and Salt River Meridian,

In the State of Arizona

EXECUTED BY

Ty White, Cadastral Engineer

Under special instructions dated October 22, 1951, which provided  
for the surveys included under Group No. 279, approved November 20, 1951  
and assignment instructions dated December 12, 1951

Survey commenced January 30, 1952

Survey completed January 31, 1952

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BOOK 4396

# INDEX DIAGRAM

Township 9 North, Range 4 West

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This survey was executed with a light mountain solar transit made by W. and L. E. Gurley, Serial No. 461263, constructed in accordance with the standard instrumental specifications of the Bureau of Land Management. The instrument was in good condition and having been placed in satisfactory adjustment prior to the beginning of the survey, was tested and found free from appreciable error.

The measurements were made with a narrow steel tape, 5 chains in length, graduated to tenths of a link for the first ten links, every link for the remainder of the first 100 links and the balance at intervals of 10 links. The tape was tested by comparison with a standard 1 chain steel tape 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.

All azimuths in this record were determined by the method of deflection angles referred to the meridian established by the following observation on Polaris.

January 31, 1952, at a point on the lode line, of the Mesa Grande lode mining claim, 1.80 chs. N.  $56^{\circ} 12'$  E. of the west end line of the claim, in lat.  $34^{\circ} 08'$  N. and long.  $112^{\circ} 42'$  W. as determined from data given with the special instructions, 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 angles from a flag at the north end center corner of the location, W. to Polaris. My watch reads correct 105th meridian time as checked by radio time signals.

Mean watch time of observation	5h	02m	36s	p.m.
Watch fast of l.m.t.	0h	30m	48s	
Mean horizontal deflection angle	$56^{\circ}$	00'	45"	
Azimuth of Polaris	$0^{\circ}$	11'	15"	
True bearing of lode line of claim	N. $56^{\circ}$	12'	00"	E.

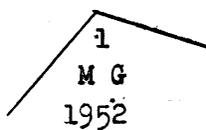
The following field notes describe a metes-and-bounds survey of land classified as mineral bearing but not covered by mineral patent survey in the NE $\frac{1}{4}$  of sec. 8, T. 9 N., R. 4 W., G. & S. R. Mer., Ariz.

Mr. George W. J. Miller, the claimant was on the ground at the time the survey was made and the position of the claim was identified by location corners in place.

#### Mesa Grande Lode

At cor. No. 1 of the Mesa Grande lode.

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



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

From this corner

A corner of the location, bears N.  $57^{\circ} 18'$  E., 1.604 chs. dist. and is monumented with a mound of stone, 3 ft. base, 3 ft. high.

The true point for the cor. of secs. 4, 5, 8 and 9, T. 9 N., R. 4 W., bears N.  $23^{\circ} 50'$  E., 20.042 chs. dist.; from the true point, the witness corner of secs. 4, 5, 8 and 9, bears S.  $0^{\circ} 02'$  E., 1.00 ch. dist. and is monumented with an iron post, 2 ins diam., firmly set, marked and witnessed as described in the official record.

Thence S.  $57^{\circ} 18'$  W.

Ascend 58 ft. over SE. slope.

## Mesa Grande Lode

Chains  
12.90 Rocky spur, slopes SE.; desc. 88 ft. over SW. slope.

22.841 Corner No. 2.

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

2 M.G.  
1952

from which:

A corner of the location, bears S.  $80^{\circ} 42'$  W., 4.757 chs. dist., which is monumented with a mound of stone, 4 ft. base, 3 ft. high.

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

Thence S.  $47^{\circ} 49'$  E.

4.684 Lode line; discovery shaft bears N.  $56^{\circ} 12'$  E., 12.145 chs. dist.; a corner of the location, bears S.  $56^{\circ} 12'$  W., 6.126 chs. dist. which is monumented with a mound of stone, 3 ft. base, 3 ft. high.

Descend gradually along a S. slope.

7.38 Road, bears NE. and SW.; slope changes to a N. slope.

9.368 Corner No. 3.

Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock and in a mound of stone to top, with brass cap mkd.

M G  
3  
1952

from which

The  $\frac{1}{4}$  sec. cor. of secs. 8 and 9, bears S.  $81^{\circ} 30'$  E., 20.64 chs. dist. and is monumented with an iron post, 1 in. diam., firmly set, marked and witnessed as described in the official record.

A corner of the location, bears S.  $42^{\circ} 55'$  W., 5.02 chs. dist. and is monumented with a mound of stone, 3 ft. base, 3 ft. high.

Thence N.  $56^{\circ} 12'$  E.,

Descend 61 ft. over E. slope.

2.90 Road, bears E. and W.

8.50 Lopaz Wash, 40 lks. wide, course S.; asc. 120 ft. over W. slope.

14.80 Recross road, bears NW. and SE.

22.727 Corner No. 4.

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

4  
M G  
1952

from which

The  $\frac{1}{4}$  sec. cor. of secs. 8 and 9, bears S.  $5^{\circ} 33'$  E., 15.766 chs. dist.

## Mesa Grande Lode

ECON 4896

Chains	A corner of the location, bears S. 79° 11' E., and is monumented with a mound of stone, 4 ft. base, 3½ ft. high.
	Raise a mound of stone, 2½ ft. base, 2½ ft. high W. of cor.
	Thence N. 47° 49' W.
	Descend 34 ft. over W. slope.
2.70	Road, bears NW. and SE.
4.10	Lopaz Wash, 40 lks. wide, course SE.;
4.684	A corner of the location, on the lode line which is monumented with a mound of stone, 3 ft. base, 2½ ft. high; the discovery shaft, bears S. 56° 12' W., 10.583 chs. dist.
	Ascend 68 ft. over E. slope.
8.903	Corner No. 1 and the point of beginning.



BOOK 4896

CERTIFICATE OF CADASTRAL ENGINEER

I, Ty White, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 22nd day of October, 1951, I have ~~surveyed~~ executed the Mineral Segregation Survey of the Mesa Grande Mining Claim in Section 8, Township 9 North, Range 4 West

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.

Albuquerque, New Mexico
May 15, 1952

Ty White
Cadastral Engineer

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., AUG 8 1952, 19

The foregoing field notes of the ~~survey of~~ Mineral Segregation Survey of the Mesa Grande Mining Claim in Section 8, Township 9 North, Range 4 West of the Gila and Salt River Meridian, Arizona

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

Donald B. Bennett
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.