

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MINERAL SURVEY NO. 4335 A & B

Arizona Land District.

FIELD NOTES

Of The Survey Of The Mining Claim Of

Grace M. Sparkes

Known As The

State of Texas #2 lode, State of Texas Mill Site and State of
Texas No. 2 Mill Site HARTFORD Mining District,
Cochise County, Arizona

Sections 12 and 13, Township 24 South, Range 20 East, G&SRM

Surveyed under order dated June 8, 1949

by Ralph L. Motz
Mineral Surveyor.

Claim located July 1, 1939, Oct. 18, 1936, ~~19~~ May 20, 1949

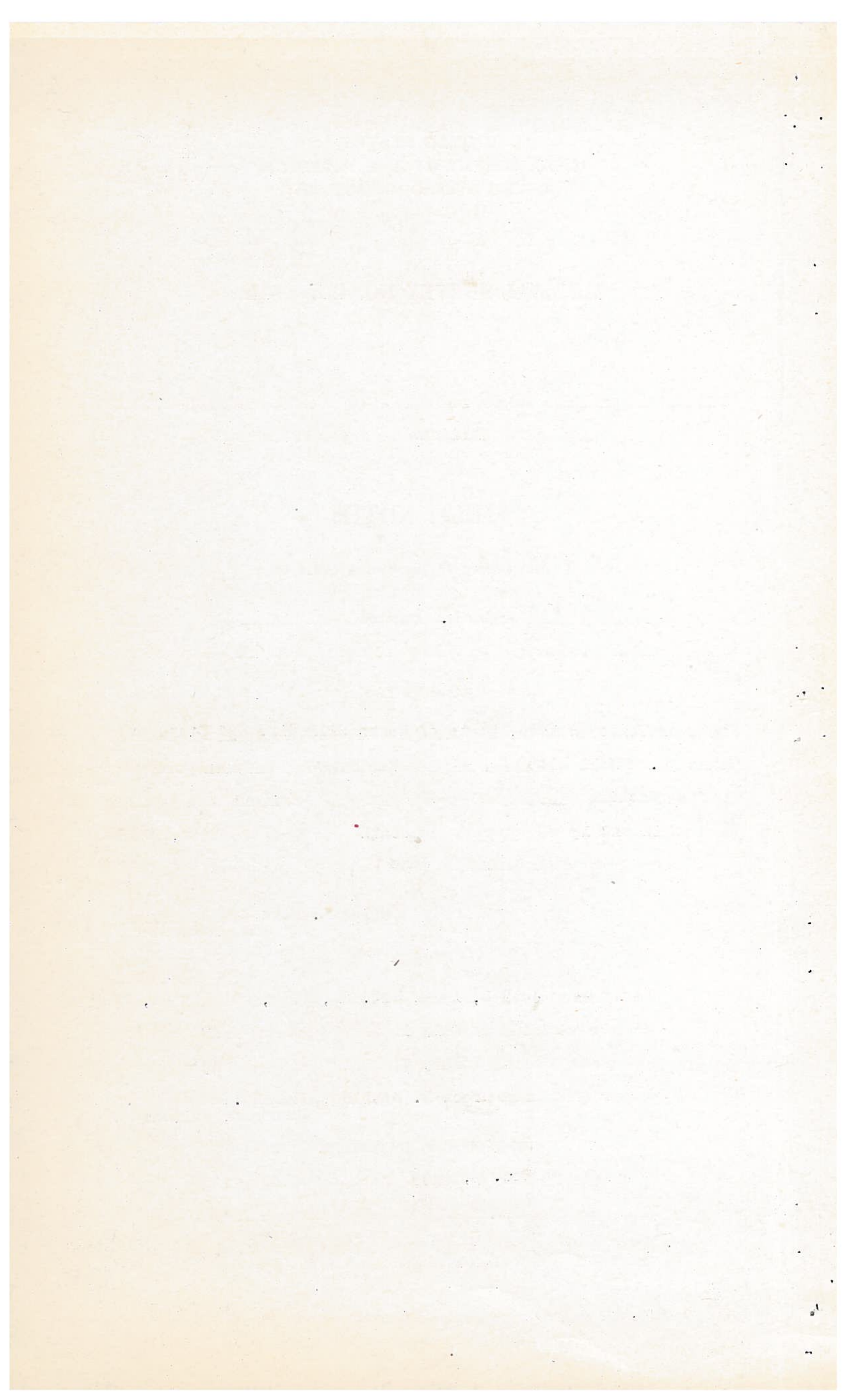
Survey commenced July 1, 1949

Survey completed July 7, 1949

Address of claimant Grace M. Sparkes, Star Rt.,
Hereford, Arizona

DATES OF AMENDED LOCATIONS

Dec. 3, 1946



Survey No. 4335 A. and B.

1.

This survey was made with a C.L. Berger & Sons precise transit with horizontal limb 6.25 ins. diam., having two double opposite verniers, and full vertical circle 5 ins. diam., having one double vernier; the verniers read to one minute of arc; the eye piece is equipped with a colored glass slide in a detachable prismatic eyepiece for making direct observations upon the sun. The instrument was in good condition at the time of the survey and all adjustments were in good order.

All azimuths in this record were determined by the method of deflection angles referred to the meridian determined by the following observation:

July 1, 1949, at Cor. No. 1 of the State of Texas # 2 lode, in latitude $31^{\circ} 21' N.$, and longitude $110^{\circ} 16' W.$, I made a series of eight altitude observations upon the sun for azimuth at approximately equal time intervals, four each with the telescope in direct and reversed positions, observing opposite limbs of the sun, and reading the horizontal angle from a reference point at Cor. No. 2 to the sun.

Mean time of observation, 105th
meridian standard time = $9^h 00^m$ a.m.

Declination of the sun at mean
time of observation = $23^{\circ} 06' 35.4'' N.$

Mean observed vertical angle to
sun's center = $48^{\circ} 05'$

Mean horizontal angle from refer-
ence point to sun's center = $90^{\circ} 44' S - E$

True bearing to reference point = $N. 0^{\circ} 11' W.$

The lines were measured with a Keuffel & Esser steel tape 300 feet in length, graduated to feet, tenths and hundredths of feet for the entire length; a Keuffel & Esser steel tape 100 feet in length, graduated to feet, tenths and hundredths of feet for the entire length; a Keuffel & Esser steel tape 25 feet in length, graduated to feet, inches and fractions of inches for the entire length; all tapes were compared to a Lufkin standard at the time of beginning the survey, and found correct.

All lines and connections of the survey were run by direct methods.

The magnetic declination observed at each corner of the survey gave a uniform value of $13^{\circ} 00'$ East.

Feet

Survey No. 4335 A.

STATE OF TEXAS #2 LODE

Corner No. 1 of the State of Texas #2 lode, identical with Cor. No. 1, Sur. No. 3642 Rubio lode is monumented by an old pine post, 4 ins. sq. scribed 1-3642R. I remove post.

At the corner point

Set an iron pipe, 36 ins. long, $1\frac{1}{2}$ ins. diam., 18 ins. in the ground, and in a mound of stone, with brass cap mkd. ST2-1-4335A-R-1-3642; from which

Feet	
	<p>The Cor. of Secs. 11, 12, 13 and 14, T. 24 S., R. 20 E., G. & S.R.M., bears S. 36° 29' W., 300.0 ft. dist., an iron pipe with brass cap, 18 ins. above ground, firmly set and marked as described in the official record.</p> <p>Thence N. 0° 11' W.</p>
300.0	Lode line; discovery point bears N. 89° 49' E., 250 ft. dist.
354.0	Intersect line 4-1 of Survey No. 3642 Fraction lode at a point from which Cor. No. 4 bears N. 52° 14' E., 82.4 ft. dist.
447.6	Intersect line 3-4 of Survey No. 3642 Fraction lode at a point from which Cor. No. 4 bears S. 56° 37' E., 78.4 ft. dist.
600.0	<p>Cor. No. 2, situated on line 4-1 of Survey No. 3642 Rubio lode.</p> <p>Set an iron pipe, 3 ft. long, 1½ ins. diam., 18 ins. in the ground, and in a mound of stone with brass cap mkd. ST2-2-4335 A; from which</p> <p>Cor. No. 4 of Survey No. 3642 Rubio lode, bears N. 0° 11' W., 295.2 ft. dist.</p> <p>Cor. No. 4 of Survey No. 3642 Fraction lode, bears S. 18° 38' E., 206.4 ft. dist.</p> <p>Thence N. 89° 49' E.</p>
1500.0	<p>Cor. No. 3</p> <p>Set an iron pipe, 3 ft. long, 1½ ins. diam., 18 ins. in the ground, and in a mound of stone with brass cap mkd. ST2-3-4335 A.</p> <p>Thence S. 0° 11' E.</p>
300.0	Lode line; discovery point bears S. 89° 49' W., 1250.0 ft. dist.
600.0	<p>Cor. No. 4, situated on line 2-3 of Survey No. 1280 State of Texas lode.</p> <p>Set an iron pipe, 3 ft. long, 1½ ins. diam., 18 ins. in the ground, and in a mound of stone with brass cap mkd. ST2-4-4335 A; from which</p> <p>Cor. No. 3 of Survey No. 1280 State of Texas lode, bears N. 89° 49' E., 193.8 ft. dist.</p> <p>Thence S. 89° 49' W.</p>
1307.4	Cor. No. 2 of Survey No. 1280 State of Texas lode, an oak post, firmly set in a monument of rocks and properly marked.
1500.0	Cor. No. 1, and place of beginning.

Survey No. 4335 B.

Feet	STATE OF TEXAS MILL SITE
	<p>At Cor. No. 1 of the State of Texas Mill Site</p> <p>Set an iron pipe, 3 ft. long, 1½ ins. diam., 18 ins. in the ground, and in a mound of stone, with brass cap mkd. STMS-1-4335 B; from which</p> <p>The ¼ sec. cor. Secs. 12 and 13, T. 24 S., R. 20 E., G. & S.R.M., bears N. 38° 36' E., 1234.8 ft. dist., an iron pipe with brass cap, 15 ins. above ground, firmly set and marked as described in the official record.</p> <p>Cor. No. 4 of Survey No. 1280 State of Texas lode, bears N. 1° 07' E., 600.0 ft. dist., a 4x4 in. pine post, firmly set in a monument of rocks and properly marked.</p> <p>Thence S. 3° 42' W.</p>
217.8	<p>Cor. No. 2</p> <p>Set an iron pipe, 3 ft. long, 1½ ins. diam., 18 ins. in the ground, and in a mound of stone, with brass cap mkd. STMS-2-4335 B.</p> <p>No local bearing objects available.</p> <p>Thence N. 86° 18' W.</p>
590.0	Center of Montezuma Canyon, 20 ft. wide, course S. 41° E.
638	Center of road, bears N. 40° W.; and S. 40° E.
1000.0	<p>Cor. No. 3, situated on line 2-3 of the State of Texas No. 2 Mill Site of this survey.</p> <p>Set an iron pipe, 3 ft. long, 1½ ins. diam., 18 ins. in the ground, and in a mound of stone, with brass cap mkd. STMS-3-4335 B.</p> <p>No local bearing objects available.</p> <p>Thence N. 3° 42' E.</p>
27.8	Center of road, bears N. 82° E. and S. 82° W.
127.8	Center of Montezuma Canyon, 20 ft. wide, course N. 82° E.
217.8	<p>Cor. No. 4, identical with Cor. No. 2 of the State of Texas No. 2 Mill Site of this survey.</p> <p>Set an iron pipe, 3 ft. long, 1½ ins. diam.; 18 ins. in the ground, and in a mound of stone, with brass cap mkd. STMS-4-ST2MS-2-4335 B.</p> <p>No local bearing objects available.</p> <p>Thence S. 86° 18' E.</p>
500.	Center of road, bears N. 10° W. and S. 10° E.
1000.0	Cor. No. 1 and place of beginning.

Survey No. 4335 B.

4

Feet

STATE OF TEXAS No. 2 MILL SITE

At Cor. No. 1 of the State of Texas No. 2 Mill Site

Set an iron pipe, 36 ins. long, 1½ ins. diam., 18 ins. in the ground, and in a mound of stone, with brass cap mkd. ST2MS-1-4335 B; from which

The Cor. of Secs. 11, 12, 13 and 14, T. 24 S., R. 20 E., G. & S.R.M., bears N. 8° 23' W., 850.5 ft. dist., previously described.

Cor. No. 1 of the State of Texas #2 lode, of this survey, bears N. 2° 52' E., 1084.0 ft. dist.

Thence S. 86° 18' E.

726.0 Cor. No. 2, identical with Cor. No. 4 of the State of Texas Mill Site of this survey, previously described.

Thence S. 3° 42' W.

90. Center of Montezuma Canyon, 20 ft. wide, course N. 82° E.

190. Center of road, bears N. 82° E. and S. 82° W.

217.8 Cor. No. 3 State of Texas Mill Site of this survey.

300.0 Cor. No. 3.

Set an iron pipe, 36 ins. long, 1½ ins. diam., 18 ins. in the ground, and in a mound of stone, with brass cap mkd. ST2MS-3-4335 B.

No local bearing objects available.

Thence N. 86° 18' W.

726.0 Cor. No. 4.

Set an iron pipe, 36 ins. long, 1½ ins. diam., 18 ins. in the ground, and in a mound of stone, with brass cap mkd. ST2MS-4-4335 B.

No local bearing objects available.

Thence N. 3° 42' E.

133 Center of road, bears N. 76° W. and S. 76° E.

210 Center of Montezuma Canyon, 20 ft. wide, course East.

300.0 Cor. No. 1 and place of beginning.

The State of Texas Mill Site contains 5.000 acres.

The State of Texas No. 2 Mill Site contains 5.000 acres.

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AREAS

Acres.

Total area, State of Texas #2 lode 20.661

Area in conflict with

Sur. No. 3642 Fraction lode 0.070

Total area, State of Texas Mill Site 5.000

Total area, State of Texas No. 2 Mill Site 5.000

Survey No. 4335 A and B.

LOCATION

This survey is located in the $S\frac{1}{2}SW\frac{1}{4}$ of Sec. 12 and the $N\frac{1}{2}NW\frac{1}{4}$ of Sec. 13, T. 24 S., R. 20 E., G. & S.R.M., in the Coronado National Forest.

The survey of the State of Texas #2 lode is identical with the amended location as marked on the ground. The survey of the State of Texas Mill Site and the State of Texas No. 2 Mill Site is identical with the original locations as marked on the ground.

EXPENDITURES

The improvements and the value of the labor and improvements made upon or for the benefit of the lode location by the claimant or her grantors are as follows:

- No. 1 The discovery shaft of the State of Texas #2 lode, the center of which being the discovery point is on the lode line 250 ft. from the west end; 5x7 ft., 10 ft. deep.
Value, \$75.
- No. 2 An open cut, the face of which bears S. 45° E., 10 ft. from the discovery point of the State of Texas #2 lode; 6 ft. wide, 10 ft. face, runs N. 10° W., 10 ft. to face.
Value, \$65.
- No. 3 An open cut, the mouth of which bears N. 65° 30' E., 218 ft. from Cor. No. 1 of the State of Texas #2 lode; 6 ft. wide, 10 ft. face, runs N. 14° 15' W., 15 ft. to face and portal of tunnel, 5x7 ft. in size running N. 14° 15' W., 190 ft. to breast.
Value, \$2950.

OTHER IMPROVEMENTS

- A well, the center of which bears N. 63° 05' E., 321 ft. from Cor. No. 4 of the State of Texas No. 2 Mill Site; 5x5 ft., 14 ft. deep.
- A well, the center of which bears N. 69° 55' E., 378 ft. from Cor. No. 4 of the State of Texas No. 2 Mill Site; 4x6 ft., 15 ft. deep.
- A storage tunnel, the mouth of which bears N. 70° 50' E., 420 ft. from Cor. No. 4 of the State of Texas No. 2 Mill Site; 4x7 ft. in size, running north 52 ft. to breast.
- A frame boarding house, the SE. corner of which bears N. 34° 15' W., 152 ft. from Cor. No. 3 of the State of Texas No. 2 Mill Site; 24x24 ft. in size, the north and south sides bear N. 82° E.
- A frame house, the SE. corner of which bears N. 9° W., 138 ft. from Cor. No. 3 of the State of Texas No. 2 Mill Site; 16.5 x 24 ft. in size; the long sides bear N. 82° E.
- A frame office building, the SW. corner of which bears N. 41° 40' E., 87 ft. from Cor. No. 3 of the State of Texas Mill Site; 12x16 ft. in size, the long sides bear N. 8° W.

A frame bunk house, the SW. corner of which bears N. 56° 50' E., 132 ft. from Cor. No. 3 of the State of Texas Mill Site; 12 x 16 ft. in size, the long sides bear N. 8° W.

A tunnel, used as powder magazine, the mouth of which bears N. 64° E., 340 ft. from Cor. No. 3 of the State of Texas Mill Site; 4 x 7 ft. in size, running N. 20° E., 60 ft. to breast.

Claimant of foregoing items herein.

A shaft, the center of which bears from a point on line 1-2, N. 0° 11' W., 300 ft. from Cor. No. 1, N. 5° E., 100 ft.; 5 x 7 ft., 25 ft. deep.

Work done by claimant herein, but is on the Fraction lode.

OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

Survey No. 1280 - State of Texas lode. Cors. 2, 3 and 4 are wooden posts, properly scribed and set. I find line 2-3 to be N. 89° 49' E., 1501.2 ft. instead of S. 81° 37' E., 1500 ft. as approved.

Survey No. 3642 - Rubio lode. Cor. No. 4 is a pine post, firmly set and properly marked. Line 4-1 is correct as approved. Fraction lode, Cors. 1, 3 and 4 are pine posts, firmly set and properly marked. Lines 3-4 and 4-1 are correct as approved.

FIELD ASSISTANTS

Charles L. Lewis

Chainman

Arthur J. Combel

Chainman

UNITED STATES
DEPARTMENT OF THE INTERIOR
~~GENERAL LAND OFFICE~~
Bureau of Land Management

FINAL OATH OF MINERAL SURVEYOR

I, Ralph L. Motz, Mineral Surveyor,
do solemnly swear that, in pursuance of instructions received from the Office Cadastral
Engineer, at Phoenix, Arizona, dated June 8, 1949,
I have, in strict conformity to the laws of the United States, the official regulations
and instructions thereunder, and the instructions of said Office Cadastral Engineer,
faithfully and correctly executed the survey of the mining claim of _____
Grace M. Sparkes, known as the
State of Texas #. 2 lode; State of Texas mill site and State of Texas
No. 2 mill site,
situate in Hartford Mining District,
Cochise County, Arizona, in Section 12 and 13,
Township No. 24 S., Range No. 20 E., G&SRM
and designated as Survey No. 4335 A & B, as represented
in the foregoing field notes, which accurately show the boundaries of said mining claim
as distinctly marked by monuments on the ground, and described in the attached copy of
the location certificate, which was received by me from the Office Cadastral Engineer
with said instructions, and that all corners of said survey have been established and
perpetuated in strict accordance with the law, official regulations and instructions
thereunder; and I do further solemnly swear that the foregoing are the true and original
field notes of said survey and my report therein, and that the labor expended and im-
provements made upon said mining claim by claimant or her
grantors are as therein fully stated, and that the character, extent, location, and
itemized value thereof are specified therein with particularity and full detail, and
that no portion of said labor or improvements so credited to this claim has been included
in the estimate of expenditures upon any other claim.

Ralph L. Motz
(Mineral Surveyor)

Subscribed and sworn to by the said Ralph L. Motz

Mineral Surveyor, before me W. H. Meischer, Notary Public

this 7th

day of July, 1949

W. H. Meischer
Notary Public, in and for the County
of Cochise, State of Arizona.
My commission expires Feb. 3, 1953.

**CERTIFICATE OF APPROVAL OF FIELD NOTES AND SURVEY OF
MINING CLAIM**

**UNITED STATES
DEPARTMENT OF THE INTERIOR
~~GENERAL LAND OFFICE~~
District Land and Survey Office
PUBLIC SURVEY OFFICE**

At Albuquerque, New Mexico

February 6, 19 50

I, Office Cadastral Engineer at Albuquerque, New Mexico

do hereby certify that the foregoing and hereto attached Field Notes and Return of the Survey of the
Mining Claim of Grace M. Sparkes

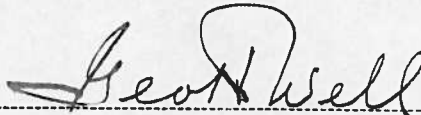
known as the State of Texas #2 lode, State of Texas, ~~known as the~~
Mill Site and State of Texas No. 2 Mill Site

situate in Hartford mining district,
Cochise County, Arizona

in Sections 12 and 13, Township No. 24 South, Range No. 20 East
G. & S.R.M., designated as Survey No. 4335 A & B

executed by Ralph L. Motz, Mineral
Surveyor, July 1 to July 7, 1949, under ~~my~~ instructions dated
June 8, 1949, have been critically examined and the necessary

corrections and explanations made, and the said Field Notes and Return, and the Survey they describe,
are hereby approved. The certified copy of the location certificate filed by the applicant for survey is
included and made a part of these field notes.



Office Cadastral Engineer.

