

Form 3860-10
(February 1987)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES

Mineral Survey Number

4864

State

Arizona

Land District

Arizona

Of the Survey of the Mining Claim of *(name and address of claimant)*

Harborlite Corporation
P. O. Box 458
Escondido, CA 92025

Known as the *(name of group, if any)*

None

NAME OF CLAIM(S)

NAME OF LOCATION	DATE			BLM MINING CLAIM SERIAL NUMBER
	LOCATED AND AMENDED	RECORDED WITH COUNTY	RECORDED WITH BLM	
MARY T. FRACTION lode	1-22-87	1-22-87	1-23-87	A MC 264352

LOCATION OF CLAIM(S)

Mining district Pioneer			County Pinal	
Section 9	Township 2 South	Range 12 East	Meridian Gila & Salt River	Survey under order dated 3/2/87
Survey commenced 5/4/87		Survey completed 5/8/87	Name of Mineral Surveyor Harvey W. Smith	

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Form 9600-20
(September 1986)

FEET

This survey was made with a Swiss Kern theodolite, Model DKM 1, No. 77769, having horizontal and vertical circles, 50 mm. in diam. The circles are graduated in degrees and 20-minute increments. An optical micrometer, adjustable to the vertical and horizontal circles, permits the reading of angles direct to ten-second accuracy and estimating to one-second accuracy. 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 horizontal-angles-right referred to the meridian determined by the following observation:

May 4, 1987, at Cor. No. 1 of the MARY T. FRACTION lode, in latitude $33^{\circ}16.4'N.$ and longitude $111^{\circ}07.8'W.$, elevation 2,780 ft. above sea level, and temperature $71^{\circ}F.$, make a series of six altitude observations on the sun for azimuth at approximately equal time intervals, three each with the telescope in direct and reversed positions, observing opposite limbs of the sun, and reading the horizontal angle right from a reference point about 1,500 ft. eastward to the sun.

Mean time of observation,
105th meridian standard
time = $8^h18^m47^s$ a.m.

Declination of sun at mean
time of observation = $15^{\circ}56'05.6''N.$

Mean observed vertical
angle to sun's center = $32^{\circ}53'41.7''$

Mean horizontal angle from
reference point clockwise
to sun's center = $8^{\circ}41'07''$

True bearing to reference
point = $N.83^{\circ}12'47''E.$

The lines were measured with a Lufkin steel tape, 300 ft. in length, graduated every foot for 299 ft. and the remaining foot graduated to tenths and hundredths; the tape was compared to an Invar standard tape at the beginning of the survey and found to be correct. In addition to the steel tape, a K & E Autoranger

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FEET	<p>infrared distance measuring unit was used to measure some of the lines. Its accuracy was checked against a line measured with the foregoing steel tape and found to be correct.</p> <p>All lines and connections of this survey were run by direct methods.</p> <p>The magnetic declination observed at each corner of the survey gave a uniform value of $13^{\circ}30'E$.</p> <hr/> <p style="text-align: center;">Mineral Survey No. 4864</p> <hr/> <p style="text-align: center;">MARY T. FRACTION LODE</p> <p>At Cor. No. 1 of the MARY T. FRACTION lode, identical with Cor. No. 4, M.S. No. 4664 Mary T. lode and Cor. No. 2, M.S. No. 4859 Laura Mae #2 lode.</p> <p>Found an iron post, $3/4$ in. diam., 18 ins. above ground, firmly set, with a brass cap properly mkd. to which I add marks M.T.F. 1 U.S.M.S. 4864; from which</p> <p style="padding-left: 40px;">The sec. cor. of secs. 8, 9, 16 & 17, T.2S., R.12 E., G.& S.R.M. bears $S.4^{\circ}56'33"W.$, 1,249.97 ft. dist., monumented with a malapais stone, 8 x 6 ins. in size, 6 ins. above ground with 4 notches on the South and East sides.</p> <p style="padding-left: 40px;">Cor. No. 2, M.S. No. 4859 Laura Mae #1 lode, bears $S.2^{\circ}42'16"E.$, 417.48 ft. dist.</p> <p style="padding-left: 40px;">Cor. No. 2, M.S. No. 4813 ROSEMARIE No. 6 Exception lode, bears $N.43^{\circ}03'43"W.$, 100.09 ft. dist.</p> <p style="padding-left: 40px;">Cor. No. 7, M.S. No. 4810-Am. Superior Perlite No. 1. placer, identical with the $S\ 1/16$ sec. cor. of secs. 8 & 9, T.2 S., R.12 E., G.& S.R.M., bears $N.56^{\circ}32'02"W.$, 132.16 ft. dist.</p> <p style="padding-left: 40px;">A wood post, 2 x 2 ins. in size, 4 ft. above ground, sets adjacent to the iron post.</p> <p>No local bearing objects or bearing trees available.</p>
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FEET	
	<p style="text-align: center;">Thence N.13°26'13"W.</p>
37.75	Lode line; discovery point bears N.89°39'31"E., 10.00 ft. dist.
75.50	Cor. No. 2, on line 6-7, M.S. No. 4810-Am. Superior Perlite No. 1. placer.
	<p>Set an iron post, 30 ins. long, 3/4 in. diam., 18 ins. in the ground, in a concrete and rock base, with a brass cap firmly secured to the iron post, mkd. X M.T.F. 2 U.S.M.S. 4864; from which</p> <p style="padding-left: 40px;">Cor. No. 7, M.S. No. 4810-Am. Superior Perlite No. 1. placer bears S.89°39'31"W., 92.71 ft. dist.</p> <p style="padding-left: 40px;">A wood post, 2 x 2 ins. in size, 4 ft. above ground, sets adjacent to the iron post.</p> <p>No local bearing objects or bearing trees available.</p> <p style="text-align: center;">Thence N.89°39'31"E.</p>
36.77	Intersect line 1-2, M.S. No. 4859 Laura Mae #1 lode, at a point from which Cor. No. 2 bears S.00°03'19"E., 490.67 ft. dist.
668.02	Intersect line 3-4, M.S. No. 4664 Mary T. lode, common with line 2-3, M.S. No. 4859 Laura Mae #2 lode, at a point from which Cor. No. 4 of the Mary T lode, identical with Cor. No. 2 of the Laura Mae #2 lode and Cor. No. 1 of the Mary T. Fraction lode of this survey, bears S.83°12'47"W., 655.05 ft. dist.
700.00	Cor. No. 3.
	<p>Set an iron post, 30 ins. long, 3/4 in. diam., 18 ins. in the ground, in a concrete and rock base, with a brass cap firmly secured to the iron post, mkd. X M.T.F. 3 U.S.M.S. 4864; from which</p> <p style="padding-left: 40px;">A wood post, 2 x 2 ins. in size, 4 ft. above ground, sets adjacent to the iron post.</p> <p>No local bearing objects or bearing trees available.</p> <p style="text-align: center;">Thence S.13°26'13"E.</p>

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FEET	
37.75	Lode line; discovery point bears S.89°39'31"W., 690.00 ft. dist.
75.50	Cor. No. 4. Set an iron post, 30 ins. long, 3/4 in. diam., 18 ins. in the ground, in a concrete and rock base, with a brass cap firmly secured to the iron post, mkd. X M.T.F. 4 U.S.M.S. 4864; from which A wood post, 2 x 2 ins. in size, 4 ft. above ground, sets adjacent to the iron post. No local bearing objects or bearing trees available. Thence S.89°39'31"W.
680.70	Intersect line 1-2, M.S. No. 4859 Laura Mae #1 lode, at a point from which Cor. No. 2 bears S.00°03'19"E., 417.13 ft. dist.
700.00	Cor. No. 1, and place of beginning.

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AREAS	Acres
Total area, MARY T. FRACTION lode -----	1.182
Area in conflict with:	
M.S. No. 4664, Mary T. lode -----	0.564
M.S. No. 4859, Laura Mae #1 lode -----	0.047
M.S. No. 4859, Laura Mae #1 lode, exclusive of its conflict with	
M.S. No. 4664, Mary T. lode -----	0.001
M.S. No. 4859, Laura Mae #2 lode -----	0.618
M.S. No. 4859, Laura Mae #2 lode, exclusive of its conflict with Laura Mae #1 lode of the same survey -----	0.617

LOCATION

This survey is located in the SW 1/4 sec. 9, T.2 S., R.12 E., G.& S.R.M.
The survey of the MARY T. FRACTION lode is identical with the location as marked on the ground.

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FEET	EXPENDITURES
	<p>The improvements and the value of the labor and improvements made upon or for the benefit of each of the lode locations embraced in said mining claim by the claimant or its grantors are as follows:</p>
No. 1	<p>The discovery point of the MARY T. FRACTION lode is on the lode line, 10. ft. from a point on line 1-2, 37.75 ft. from Cor. No. 1, a post and notice. Value, None</p>
No. 2	<p>An open cut, the SW cor. of which bears N.83°12'47"E., 315 ft. from Cor. No. 1 of the Mary T. Fraction lode; this improvement is part of a large open cut extending from the Mary T patented lode across the Mary T. Fraction lode into the Laura Mae #2 lode. On the Mary T. Fraction lode it is 35 ft. wide at the west end and runs East, 300 ft. Its depth is approximately 60 ft. Value, \$500.00</p>
	<p>OTHER IMPROVEMENTS</p>
	<p>None</p>
	<p>OTHER CORNER DESCRIPTIONS and SUPPLEMENTAL DATA</p>
	<p>M.S. No. 4664, Mary T. lode: Cors. Nos. 1 and 3, the latter identical with Cor. No. 3, M.S. No. 4859 Laura Mae #2 lode, are monumented with 3/4 in. pipe with a brass cap, 14 ins. above ground, firmly set, properly mkd. Cor. No. 4, described above. Line 3-4, common with line 2-3, M.S. No. 4859 Laura Mae #2 lode, was found to be correct as approved. Line 4-1 was found to be N.13°26'13"W., 592.29 ft. instead of N.13°26' 24"W., 592.26 ft. as approved.</p>
	<p>M.S. No. 4810-Am, Superior Perlite No. 1. placer: Cor. No. 6, identical with Cor. No. 8 of the SUPERIOR PERLITE NO 2 placer and Cor. No. 4 of the Superior Perlite No. 3. placer, both of the same survey, and Cor. No. 7, identical with the S 1/16 sec. cor. of secs. 8 & 9, are monumented with 3/4 in. iron pipe with a brass cap, 14 ins. above ground, firmly set, properly mkd. Line 6-7 was found to be correct as approved.</p>

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M.S. No. 4813, ROSEMARIE NO. 6 Exception lode: Cor. No. 2, on line 6-7, M.S. No. 4810-Am. Superior Perlite No. 1. placer, is monumented with 3/4 in. pipe with a brass cap, 14 ins. above ground, firmly set, properly mkd.

M.S. No. 4859, Laura Mae #1 lode: Cors. Nos. 1 and 2 are monumented with 3/4 in. pipe with a brass cap, 14 ins. above ground, firmly set, properly mkd. Line 1-2 was found to be correct as approved.

M.S. No. 4859, Laura Mae #2 lode: Cors. Nos. 2 & 3, described above. Line 1-2 shown as approved. Line 2-3, described above.

MEMORANDUM

None

FIELD ASSISTANTS

Name	Capacity
Kent Miller	Assistant Instrumentman
Wayne Smith	Rodman-Chainman

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

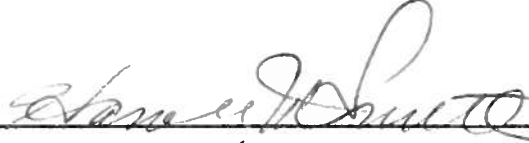
Name of Mineral Surveyor	Date
Harvey W. Smith	October 22, 1987

I HEREBY CERTIFY That in pursuance of an order received from the Arizona State Office, Bureau of Land Management, at Phoenix, Arizona, dated March 2, 1987, I have carefully executed the survey of the claim of the Harborlite Corporation, known as the Mary T. Fraction lode, situated in surveyed section 9, Township 2 South, Range 12 East, Gila and Salt River Meridian, in the State of Arizona.

This survey, designated as number 4864, has been executed by me and under my direction and has been made in strict conformity with said order, the Manual of Instructions for the Survey of Public Lands of the United States, and in specific manner described in the foregoing field notes.

I FURTHER CERTIFY That the labor expended and improvements made upon and for the benefit of the Mary T. Fraction lode location embraced in the said mining claim by claimant(s) or its grantors are fully stated in my report. The character, extent, location, and itemized value are specified in full detail. No portion of, or interest in, said labor and improvements so credited to this claim has been included in the estimate of expenditures upon any other claim.

Scottsdale, Arizona
(Location)

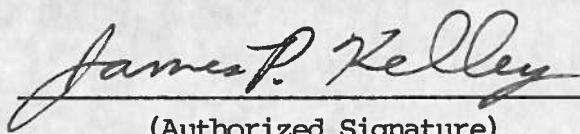

(Signature of Mineral Surveyor)

Title 18, U.S.C. section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

CERTIFICATE OF APPROVAL

Arizona State Office
Phoenix, Arizona
October 29, 1987

The foregoing field notes of mineral survey number 4864, in surveyed section 9, Township 2 South, Range 12 East, Gila and Salt River Meridian, in the State of Arizona, executed by Harvey W. Smith, Mineral Surveyor, under order dated March 2, 1987, having been critically examined and the necessary corrections made prior to their certification by the surveyor, the field notes and the survey therein described are hereby approved.



(Authorized Signature)

Chief Cadastral Surveyor of Arizona

(Title)