

Form 3860-10
(February 1987)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
AMENDED
FIELD NOTES

Mineral Survey Number

4889AM

State

Arizona

Land District

Arizona

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

Harborlite Corporation
P. O. Box 960
Superior, Arizona 85273

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

NAME OF CLAIM(S)

NAME OF LOCATION	DATE			BLM MINING CLAIM SERIAL NUMBER
	LOCATED AND AMENDED	RECORDED WITH COUNTY	RECORDED WITH BLM	
Lucero millsite Amended	11-21-91 9-28-94	11-27-91 10-04-94	2-4-92 10-26-94	A MC 319070

LOCATION OF CLAIM(S)

Mining district Pioneer		County Pinal		
Section 4	Township 2 South	Range 12 East	Meridian G. & S.R.M.	Survey under order dated 7/21/93 6/1/95AM
Survey commenced 7/21/93		Survey completed 6/2/95	Name of Mineral Surveyor Harvey W. Smith	

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FEET											
	<p>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.</p> <p>All azimuths in this record were determined by the method of horizontal-angles-right referred to the meridian determined by the following observation:</p> <p>November 2, 1993, at Cor. No. 2 of the Lucero millsite, in latitude $33^{\circ}17'27.6''N.$ and longitude $111^{\circ}07'25.3''W.$, elevation 2,710 ft. above sea level, and temperature $60^{\circ}F.$, 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 from a reference point about 500 ft. Northeast to the sun.</p> <table data-bbox="446 976 1372 1501"> <tbody> <tr> <td>Mean time of observation, 105th meridian standard time</td> <td>= $9^h20^m10^s$ a.m.</td> </tr> <tr> <td>Declination of sun at mean time of observation</td> <td>= $^{\circ}15'12'18.9''S.$</td> </tr> <tr> <td>Mean observed vertical angle to sun's center</td> <td>= $27^{\circ}02'55''$</td> </tr> <tr> <td>Mean horizontal angle from reference point clockwise to sun's center</td> <td>= $66^{\circ}17'52''$</td> </tr> <tr> <td>True bearing to reference point</td> <td>= $N.67^{\circ}06'15''E.$</td> </tr> </tbody> </table> <p>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 Nikon ND-21 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>	Mean time of observation, 105th meridian standard time	= $9^h20^m10^s$ a.m.	Declination of sun at mean time of observation	= $^{\circ}15'12'18.9''S.$	Mean observed vertical angle to sun's center	= $27^{\circ}02'55''$	Mean horizontal angle from reference point clockwise to sun's center	= $66^{\circ}17'52''$	True bearing to reference point	= $N.67^{\circ}06'15''E.$
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FEET	
	<p>The magnetic declination observed at each corner of the survey gave a uniform value of 12°30'E.</p>
	<hr/> <p style="text-align: center;">Mineral Survey No. 4889AM</p> <hr/>
	<p style="text-align: center;">LUCERO MILLSITE</p>
	<p>At Cor. No. 1 of the Lucero millsite.</p>
	<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 L. 1 U.S.M.S. 4889; from which</p>
	<p style="padding-left: 40px;">The closing cor. of Secs. 4 & 5, T.2 S., R.12 E., G.& S.R.M., bears N.73°15'05"W., 2,111.34 ft. dist., monumented with a granite stone, 12 x 12 x 10 ins. above ground, firmly set, and mkd. with 4 notches on E. face, 2 notches on W. face and C C on S. face.</p>
	<p>No local bearing objects or bearing trees available.</p>
	<p style="text-align: center;">Thence S.10°04'50"E.</p>
80.00	<p>Cor. No. 2, on line 4-1, M.S. No. 4803 Lee Mill Site.</p>
	<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 L. 2 U.S.M.S. 4889; 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 other local bearing objects or bearing trees available.</p>
	<p style="text-align: center;">Thence S.79°55'10"W.</p>
77.08	<p>Witness cor. for Cor. No. 4, M.S. No. 4803 Lee Mill Site, identical with the witness cor. for Cor. No. 2, M.S. No. 4803 Penny Mill Site.</p>
100.00	<p>Point for Cor. No. 4, M.S. No. 4803 Lee Mill Site, identical with the point for Cor. No. 2, M.S. 4803 Penny Mill Site and the center of an unimproved dirt road, 20. ft. wide, bears N.35°E. and S.20°E.</p>
430.00	<p>Cor. No. 3, identical with Cor. No. 1, M.S. No. 4803 Penny Mill Site and Cor. No. 1, M.S. No. 4803 Cynthia & John Mill Site.</p>

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FEET	<p>Found an iron post, 12 ins. above ground, with a brass cap firmly secured to the iron post, mkd. X M.S. 4803 P.1 CJ.1 to which I add marks L. 3 U.S.M.S. 4889; 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="padding-left: 40px;">Thence N.10°04'50"W.</p>				
155.00	<p>Cor. No. 4.</p> <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 L. 4 U.S.M.S. 4889; 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="padding-left: 40px;">Thence N.89°48'48"E.</p>				
411.	Center of unimproved dirt road, 20. ft. wide, bears N.60°E. and S.60°W.				
436.49	Cor. No. 1, and place of beginning.				
<hr/> Mineral Survey No. 4889 AM <hr/>					
<table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;">AREAS</th> <th style="text-align: right;">Acres</th> </tr> </thead> <tbody> <tr> <td style="text-align: left;">Total area, Lucero millsite -----</td> <td style="text-align: right;">1.160</td> </tr> </tbody> </table>		AREAS	Acres	Total area, Lucero millsite -----	1.160
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Total area, Lucero millsite -----	1.160				
LOCATION					
<p>This survey is located in the NW$\frac{1}{4}$ Sec. 4, T.2 S., R.12 E., G.& S.R.M.</p> <p>The survey of the Lucero millsite is identical with the location or amended location as marked on the ground.</p>					
EXPENDITURES					
None					

Mineral Survey No. 4889AM

FEET	<p style="text-align: center;">OTHER CORNER DESCRIPTIONS and SUPPLEMENTAL DATA</p> <p>M.S. No. 4803, Lee Mill Site: Cor Nos. 1 and the witness corner for Cor. No. 4, identical with the witness corner for Cor. No. 2 of the Penny Mill Site of the same survey are monumented with iron posts, firmly set and properly marked. Line 4-1 was found to be N.79°55'10"E., 330.00 ft. instead of N.79°58'22"E., as approved.</p> <p>M.S. No. 4803, Penny Mill Site: Cor. No. 1, identical with Cor. No. 1 of the Cynthia & John Mill Site of the same survey, and Cor. No. 3 of the Lucero millsite of this survey, described above. Cor. No. 2, identical with Cor. No. 4 of the Lee Mill Site, described above. Line 1-2 was found to be N.79°55'10"E., 330.00 ft. instead of N.79°58'22"E., 330.00 ft. as approved.</p> <hr/> <p style="text-align: center;">MEMORANDUM</p> <p style="text-align: center;">None</p> <hr/> <p style="text-align: center;">FIELD ASSISTANTS</p> <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Capacity</th> </tr> </thead> <tbody> <tr> <td>Kent Miller</td> <td>Assistant Instrumentman</td> </tr> <tr> <td>Gary Shew</td> <td>Rodman-Chainman</td> </tr> </tbody> </table>	Name	Capacity	Kent Miller	Assistant Instrumentman	Gary Shew	Rodman-Chainman
Name	Capacity						
Kent Miller	Assistant Instrumentman						
Gary Shew	Rodman-Chainman						

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

Name of Mineral Surveyor

Date

Harvey W. Smith

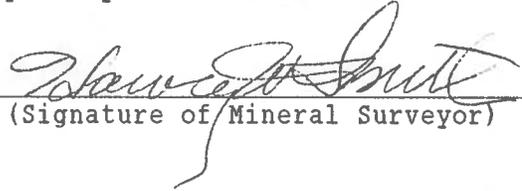
4/2/96

I HEREBY CERTIFY That in pursuance of an order received from the Arizona State Office, Bureau of Land Management, at Phoenix, Arizona, dated July 21, 1993, amended June 1, 1995, I have carefully executed the survey of the claim of Harborlite Corporation, known as the Lucero millsite, situated in section 4, Township 2 South, Range 12 East, Gila and Salt River Meridian, in the State of Arizona.

This survey, designated as number 4889AM, 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 Lucero millsite location embraced in the said mining claim by claimants 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
April 10, 1996

The foregoing field notes of mineral survey number 4889AM, in surveyed section 4, 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 July 21, 1993, amended June 1, 1995, and 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.

Jerry A. Talbot
(Authorized Signature)

Acting Chief Cadastral Surveyor of Arizona
(Title)

~~CERTIFICATE OF TRANSCRIPT~~

~~I HEREBY CERTIFY That the foregoing transcript of field notes of the above-described mineral survey number 4889AM is a true copy of the original field notes.~~

~~_____
(Authorized Signature)~~

~~Acting Chief Cadastral Surveyor of Arizona
(Title)~~