

Form 3860-10
(October 1981)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES

Mineral Survey Number

4860

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, California 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	
Harborlite Millsite No. 1A	1-04-86	1-20-86	1-29-86	248143
Harborlite Millsite No. 2A	1-04-86	1-20-86	1-29-86	248144

LOCATION OF CLAIM(S)

Mining district Pioneer			County Pinal	
Section 4	Township 2 South	Range 12 East	Meridian Gila & Salt River	Survey under order dated 2/13/86
Survey commenced 3/07/86		Survey completed 3/24/86	Name of Mineral Surveyor Harvey W. Smith	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FILE NO. 100-100000

Section 10
Section 10
Section 10

Harbor Hills Corporation
P.O. Box 458
Escondido, California 92025

STATE OF CALIFORNIA

SECTION	TOWNSHIP	RANGE	COUNTY	ACRES	SECTION	TOWNSHIP	RANGE	COUNTY	ACRES
10	10	10	10	10	10	10	10	10	10
10	10	10	10	10	10	10	10	10	10

LOCATION OF CLAIMS

100-100000	100-100000	100-100000	100-100000
100-100000	100-100000	100-100000	100-100000

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:

March 7, 1986, at the witness cor. for Cor. No. 2 of the Harborlite Millsite No. 1A, latitude $33^{\circ}17.2'N.$, longitude $111^{\circ}07.4'W.$, elevation 2,710 ft. above sea level, and temperature $65^{\circ}F.$, 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 6,000 ft. southeastward to the sun.

Mean time of observation,
105th meridian standard
time = $8^h45^m23^s$ a.m.

Declination of sun at mean
time of observation = $5^{\circ}13'09.2''S.$

Mean observed vertical
angle to sun's center = $23^{\circ}33'37''$

Mean horizontal angle from
reference point clockwise
to sun's center = $14^{\circ}58'05''$

True bearing to reference
point = $S.81^{\circ}05'58''E.$

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 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.

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

The magnetic declination observed at each corner of the survey gave a uniform value of $13^{\circ}30'$.

Mineral Survey No. 4860

FEET

HARBORLITE MILLSITE NO. 1A

Beginning at Cor. No. 1 of the Harborlite Millsite No. 1A, identical with Cor. No. 1, M.S. No. 4845 Harborlite Millsite No. 1.

Found an iron post, 3/4 in. diam., 12 ins. above the ground, firmly set with a brass cap properly mkd. to which I add marks H. M.S. 1A 1 U.S.M.S. 4860; from which

The S. 1/4 sec. cor. of sec. 34, T.1 S., R.12 E., G.& S.R.M., bears N.36°25'22"E., 1,859.35 ft. dist., monumented with an iron post, 1 in. diam., 12 ins. above ground, firmly set, with a brass cap properly mkd.

A cairn, 2 x 3 ft. base, 3 ft. high, bears S.70°W., 4 ft. dist.

No local bearing objects or bearing trees available.

Thence S.10°01'38"E.

65. Power line, bears N.16°30'W. and S.16°30'E.
220. Power line, bears N.64°E. and S.64°W.
235. Buried telephone cable, bears N.20°E. and S.20°W.
- 330.00 True point for Cor. No. 2, identical with the point for Cor. No. 1 of the Harborlite Millsite No. 2A of this survey, the point for Cor. No. 2, M.S. No. 4845 Harborlite Millsite No. 1 and the point for Cor. No. 1, Harborlite Millsite No. 2 of the same survey.
- This corner falls in the center of an unimproved dirt road, 30 ft. wide, bears N.21°E. and S.21°W., where a permanent monument cannot be established; from which
- The witness corner for Cor. No. 2 bears S.10°01'38"E., 173.78 ft. dist., hereinafter described.
- Thence S.79°58'22"W.
55. Buried telephone cable bears N.20°E. and S.20°W.
180. Power line, bears N.22°E. and S.22°W.
345. Power line, bears N.63°30'E. and S.63°30'W.
435. Power line, bears N.21°30'W. and S.21°30'E.
- 660.00 Cor. No. 3, identical with Cor. No. 4 of the Harborlite Millsite No. 2A of this survey, Cor. No. 3, M.S. No. 4845 Harborlite Millsite No. 1 and Cor. No. 4, Harborlite Millsite No. 2 of the same survey.

FEET		
	<p>Found an iron post, 3/4 in. diam., 12 ins. above the ground, firmly set with a brass cap properly mkd. to which I add marks H. M.S. 1A 3 H. M.S. 2A 4 U.S.M.S. 4860; from which</p> <p>A wood post, 2 x 2 ins. in size, 4 ft. above ground, in a cairn, bears S.50°E. 2 ft. dist.</p> <p>No local bearing objects or bearing trees available.</p> <p>Thence N.10°01'38"W.</p>	
330.00	<p>Cor. No. 4.</p> <p>Found an iron post, 3/4 in. diam., 12 ins. above the ground, firmly set with a brass cap properly mkd. to which I add marks H. M.S. 1A 4 U.S.M.S. 4860; from which</p> <p>A cairn, 3 ft. base, 3 ft. high, bears S.20°E., 5 ft. dist.</p> <p>No local bearing objects or bearing trees available.</p> <p>Thence N.79°58'22"E.</p>	
160.	<p>Power line, bears N.21°30'W. and S.21°30'E.</p>	
382.	<p>Railroad track, bears N.64°W. and S.64°E.</p>	
651.	<p>Power line, bears N.16°30'W. and S.16°30'E.</p>	
660.00	<p>Cor. No. 1, and place of beginning.</p> <p>The Harborlite Millsite No. 1A contains 5 acres.</p>	
	<p style="text-align: center;">HARBORLITE MILLSITE NO. 2A</p> <p>Beginning at the true point for Cor. No. 1 of the Harborlite Millsite No. 2A, identical with Cor. No. 2 of the Harborlite Millsite No. 1A of this survey, Cor. No. 1, M.S. No. 4845 Harborlite Millsite No. 2 and Cor. No. 2, Harborlite Millsite No. 1 of the same survey.</p> <p>This corner falls in the center of a road where a permanent monument cannot be established; from which</p> <p>The S. 1/4 sec. cor. of sec. 34 bears N.29° 53'03"E., 2,100.38 ft. dist., hereinbefore described.</p> <p>Thence S.10°01'38"E.</p>	
173.78	<p>Point for witness Cor. No. 1, identical with the witness cor. for Cor. No. 2 of the Harborlite Millsite No. 1 of this survey.</p>	

FEET

Found an iron post, 3/4 in. diam., 12 ins. above the ground, firmly set with a brass cap properly mkd. to which I add marks W.C. H. M.S. 1A 2 H. M.S. 2A 1 U.S.M.S. 4860; from which

A cairn, 2 ft. base, 2 1/2 ft. high, bears N.30°E., 1 1/2 ft. dist.

No local bearing objects or bearing trees available.

225. Buried gas pipeline, bears N.8°E. and S.8°W.

330.00 Cor. No. 2, identical with Cor. No. 2, M.S. No. 4845 Harborlite Millsite No. 2.

Found an iron post, 3/4 in. diam., 12 ins. in the ground, firmly set with a brass cap properly mkd. to which I add marks H. M.S. 2A 2 U.S.M.S. 4860; from which

A wood post, 2 x 2 ins. in size, 4 ft. above ground, in a cairn, bears N.63°W., 2 ft. dist.

No local bearing objects or bearing trees available.

Thence S.79°58'22"W.

36. Buried gas pipeline, bears N.8°E. and S.8°W.

195. Center of unimproved dirt road, 22 ft. wide, bears N.21°E. and S.21°W.

245. Buried telephone cable, bears N.20°E. and S.20°W.

660.00 Cor. No. 3, identical with Cor. No. 3, M.S. No. 4845 Harborlite Millsite No. 2.

Found an iron post, 3/4 in. diam., 12 ins. above the ground, firmly set with a brass cap properly mkd. to which I add marks H. M.S. 2A 3 U.S.M.S. 4860; from which

A wood post, 2 x 2 ins. in size, 4 ft. above ground, in a cairn, bears S.49°E., 2 1/2 ft. dist.

No local bearing objects or bearing trees available.

Thence N.10°01'38"W.

230. Power line, bears N.63°30'E. and S.63°30'W.

330.00 Cor. No. 4, identical with Cor. No. 3 of the Harborlite Millsite No. 1A of this survey, Cor. No. 4, M.S. No. 4845 Harborlite Millsite No. 2 and Cor. No. 3, Harborlite Millsite No. 1 of the same survey.

Thence N.79°58'22"E.

FEET 225.	Power line, bears N.21°30'W. and S.21°30'E.
315.	Power line, bears N.63°30'E. and S.63°30'W.
480.	Power line, bears N.22°E. and S.22°W.
605.	Buried telephone cable, bears N.20°E. and S.20°W.
660.00	Cor. No. 1, and place of beginning. The Harborlite Millsite No. 2A contains 5 acres.

Mineral Survey No. 4860

AREAS	Acres
Total area, Harborlite Millsite No. 1A -----	5.000
Area in conflict with: M.S. No. 4845, Harborlite Millsite No. 1-	5.000
Total area, Harborlite Millsite No. 2A -----	5.000
Area in conflict with: M.S. No. 4845, Harborlite Millsite No. 2-	5.000

LOCATION

This survey is located in the NW 1/4 sec. 4, T.2 S., R.12 E., G.& S.R.M.
 The survey of the Harborlite Millsite Nos. 1A and 2A is identical with the location as marked on the ground.

EXPENDITURES

None

OTHER IMPROVEMENTS

- A steel frame and corrugated sheet steel mill building for processing perlite ore - storage tanks, crushers, conveyors, etc. The NW cor. of the building bears S.19°W., 180 ft. from Cor. No. 1 Harborlite Millsite No. 1A; 40 x 60 ft. in size, the long sides bear S.64°E.
 Claimant herein
- A steel ore hopper, the NW cor. of which bears S.4°W., 172 ft. from Cor. No. 1 Harborlite Millsite No. 1A; 10 x 12 ft. in size, the long sides bear S.26°W.
 Claimant herein
- A frame mobile home trailer, the NE cor. of which bears S.53°W., 168 ft. from Cor. No. 1 Harborlite Millsite No. 2A; 8 x 42 ft. in size, the long sides bear S.25°W.
 Claimant herein

(This form bound on left side)

FEET	<p>A frame mobile home trailer, the NE cor. of which bears S.42°30'W., 260 ft. from Cor. No. 1 Harborlite Millsite No. 2A; 12 x 57 ft. in size, the long sides bear S.25°W. Claimant herein</p> <p>A standard gauge railroad spur track for servicing the perlite mill. Claimant unknown.</p> <p>Power lines for servicing the perlite mill and mobile home trailers. Claimant unknown</p> <p>A buried telephone cable. Claimant unknown</p> <p>A buried gas pipeline. Claimant unknown</p> <p style="text-align: center;">OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA</p> <p style="text-align: center;">None</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-collapse: collapse;"> <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>Wayne Smith</td> <td>Rodman-Chainman</td> </tr> </tbody> </table>	Name	Capacity	Kent Miller	Assistant Instrumentman	Wayne Smith	Rodman-Chainman
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 Harvey W. Smith	Date Oct. 27, 1986
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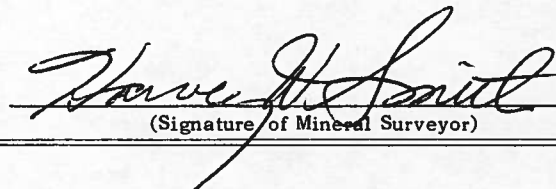
I HEREBY CERTIFY That in pursuance of an order received from the Bureau of Land Management, at Phoenix, Arizona, dated Feb. 13, 1986, I have carefully executed the survey of the claim of Harborlite Corporation, known as the (lode, placer, or mill site) Harborlite Millsite Nos. 1A and 2A, situated in Section 4, Township 2 S., Range 12 E., Gila & Salt River Meridian, in the State of Arizona.

This survey, designated as number 4860, 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 (lode or placer) location(s) 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)

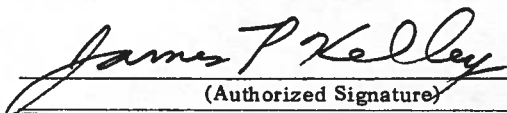


(Signature of Mineral Surveyor)

CERTIFICATE OF APPROVAL

Office Arizona State
Location Phoenix, Arizona
Date November 6, 1986

The foregoing field notes of mineral survey number 4860, in section 4, Range 12 E., Gila and Salt River Meridian, in the State of Arizona, surveyed unsurveyed Township 2 S., executed by Harvey W. Smith, Mineral Surveyor, under order dated February 13, 1986, 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)

CERTIFICATE OF TRANSCRIPT

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

(Authorized Signature)

(Title)

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.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CENTRODOTE SURVEY

Oct. 27, 1988

Harvey A. Smith

Department of Land Management
Phoenix, Arizona

Feb. 11, 1988

Harmonize Corporation

Harmonize Corporation, Attention: Mr. A. J. Smith

1000 North Central Expressway, Suite 1000

ABOVE

Phoenix, Arizona

STATE OF ARIZONA

[Handwritten signature]