

Form 3860-10
(October 1979)
(formerly 3400-11)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Mineral Survey number
4845

State
Arizona

Land District
Arizona

FIELD NOTES

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

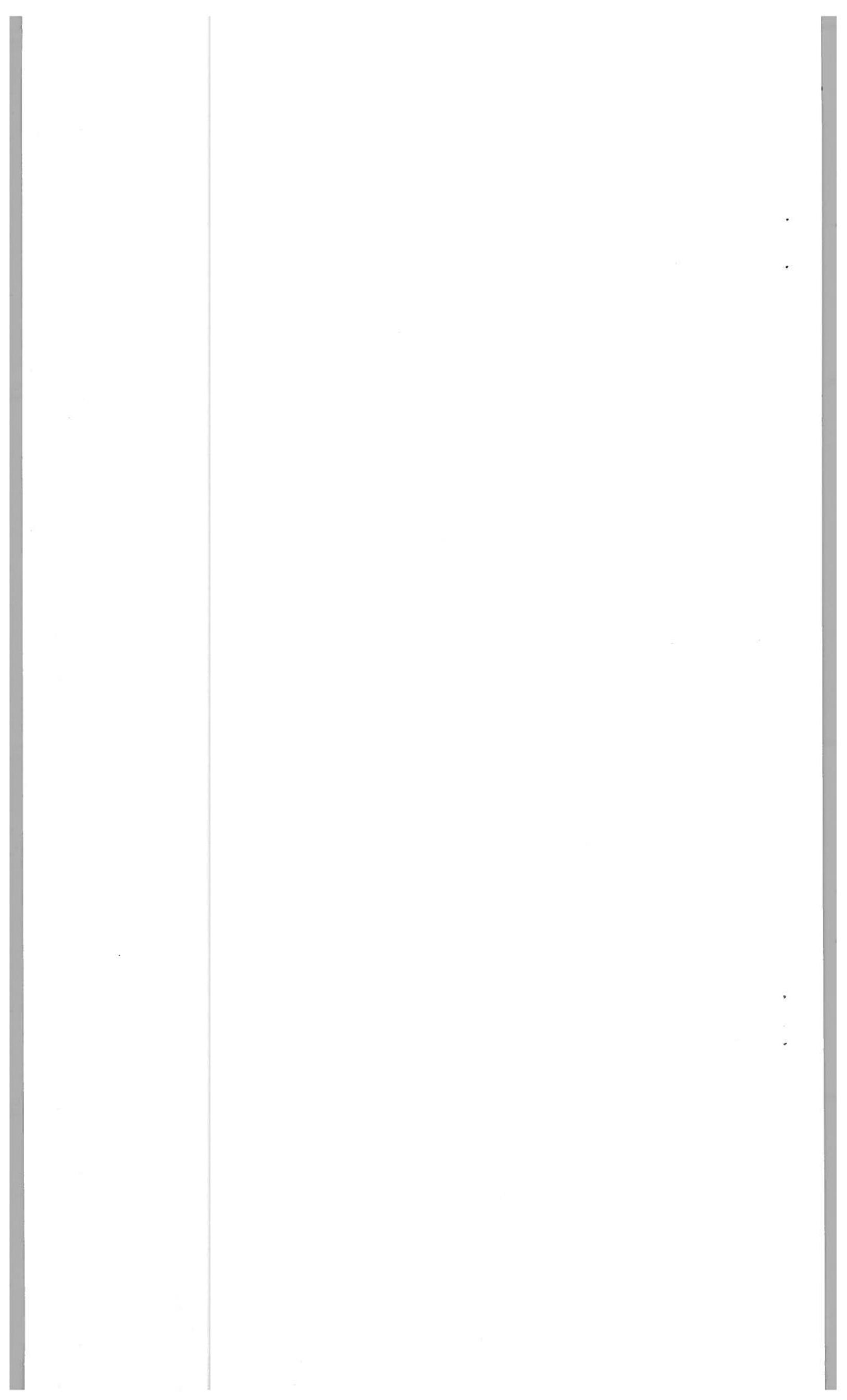
Harborlite Corporation
P. O. Box 458
Escondido, CA 92025

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

CONSISTING OF LOCATIONS NAMED AND LOCATED AS FOLLOWS

NAME OF LOCATION	DATE	
	LOCATED	AMENDED
Harborlite Millsite No. 1	10-8-74	
Harborlite Millsite No. 2	10-8-74	

Mining district Mineral Creek			County Pinal	
Section 4	Township 2 South	Range 12 East	Meridian Gila & Salt River	Survey under order dated Nov. 30, 1981
Survey commenced December 1, 1981		Survey completed December 15, 1981		Name of Mineral Surveyor Harvey W. Smith



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:

December 10, 1981, at Cor. No. 1 of the Harborlite Millsite No. 1, latitude $33^{\circ}17.3'N.$, longitude $111^{\circ}07.4'W.$, elevation 2,710 ft. above sea level, and temperature $76^{\circ}F.$, 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 1,800 ft. northeastward to the sun.

Mean time of observation,
105th meridian standard
time = $9^h 40^m 15^s$ a.m.

Declination of sun at mean
time of observation = $22^{\circ}56'54.6''S.$

Mean observed vertical
angle to sun's center = $25^{\circ}29'23''$

Mean horizontal angle from
reference point clockwise
to sun's center = $109^{\circ}36'02''$

True bearing to reference
point = $N.36^{\circ}25'22''E.$

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. 4845

FEET	HARBORLITE MILLSITE NO. 1
	<p>At Cor. No. 1 of the Harborlite Millsite No. 1.</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 H. M.S. 1 1 U.S.M.S. 4845; from which</p> <p>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.</p> <p>A cairn, 2 x 3 ft. base, 3 ft. high, bears S.70°W., 4 ft. dist.</p> <p>No local bearing objects or bearing trees available.</p> <p>Thence S.10°01'38"E.</p>
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	<p>Cor. No. 2, identical with Cor. No. 1 of the Harborlite Millsite No. 2 of this survey and center of unimproved dirt road, 30 ft. wide, bears N.21°E. and S.21°W.</p> <p>This corner falls in the center of a road where a permanent monument cannot be established; from which</p> <p>The point for witness corner bears S.10°01'38"E., 173.78 ft. dist.</p> <p>Thence S.79°58'22"W.</p>
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	<p>Cor. No. 3, identical with Cor. No. 4 of the Harborlite Millsite No. 2 of this survey.</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 H. M.S. 1 3 H. M.S. 2 4 U.S.M.S. 4845; from which</p>

FEET		
	<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>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 H. M.S. 1 4 U.S.M.S. 4845; 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.	Power line, bears N.21°30'W. and S.21°30'E.	
382.	Railroad track, bears N.64°W. and S.64°E.	
651.	Power line, bears N.16°30'W. and S.16°30'E.	
660.00	<p>Cor. No. 1, and place of beginning.</p> <p>The Harborlite Millsite No. 1 contains 5 acres.</p>	
	<p style="text-align: center;">HARBORLITE MILLSITE NO. 2</p> <p>Beginning at Cor. No. 1 of the Harborlite Millsite No. 2, identical with Cor. No. 2 of the Harborlite Millsite No. 1.</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., heretofore 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> <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 W.C. H. M.S. 1 2 H. M.S. 2 1 U.S.M.S. 4845; from which</p> <p>A cairn, 2 ft. base, 2 1/2 ft. high, bears N.30°E., 1 1/2 ft. dist.</p> <p>No local bearing objects or bearing trees available.</p>	

FEET 225.	Buried gas pipeline, bears N.8°E. and S.8°W.
330.00	<p>Cor. No. 2.</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 H. M.S. 2 2 U.S.M.S. 4845; from which</p> <p style="padding-left: 40px;">A wood post, 2 x 2 ins. in size, 4 ft. above ground, in a cairn, bears N.63°W., 2 ft. dist.</p> <p>No local bearing objects or bearing trees available.</p> <p style="text-align: center;">Thence S.79°58'22"W.</p>
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	<p>Cor. No. 3.</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 H. M.S. 2 3 U.S.M.S. 4845; from which</p> <p style="padding-left: 40px;">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.</p> <p>No local bearing objects or bearing trees available.</p> <p style="text-align: center;">Thence N.10°01'38"W.</p>
230.	Power line, bears N.63°30'E. and S.63°30'W.
330.00	<p>Cor. No. 4, identical with Cor. No. 3 of the Harborlite Millsite No. 1 of this survey.</p> <p style="text-align: center;">Thence N.79°58'22"E.</p>
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	<p>Cor. No. 1, and place of beginning.</p> <p>The Harborlite Millsite No. 2 contains 5 acres.</p>

FEET	AREAS	Acres
	Total area, Harborlite Millsite No. 1 -----	5.000
	Total area, 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. 1 and 2 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. 1; 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. 1; 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. 2; 8 x 42 ft. in size, the long sides bear S.25°W. Claimant herein	
	A frame mobile home trailer, the NE cor. of which bears S.42°30'W., 260 ft. from Cor. No. 1 Harborlite Millsite No. 2; 12 x 57 ft. in size, the long sides bear S.25°W. Claimant herein	
	A standard gauge railroad spur track for serv- icing the perlite mill. Claimant unknown.	
	Power lines for servicing the perlite mill and mobile home trailers. Claimant unknown	
	A buried telephone cable. Claimant unknown	
	A buried gas pipeline. Claimant unknown	

FEET	OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA	
	None	
	MEMORANDUM	
	None	
	FIELD ASSISTANTS	
	Name	Capacity
	Kent Miller	Assistant Instrumentman
	Joe Nachtigall	Rodman-Chainman

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

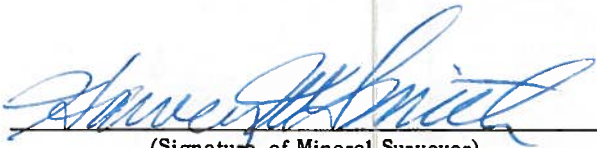
Name of Mineral Surveyor	Date
Harvey W. Smith	December 23, 1981

I HEREBY CERTIFY That in pursuance of an order received from the Bureau of Land Management, at Phoenix, Arizona, dated November 30, 1981, I have carefully executed the survey of the claim of Harborlite Corporation, known as the (lode, placer, or mill site) Harborlite Millsite Nos. 1 and 2, situated in section 4, Township 2 S., Range 12 E., Gila & Salt River Meridian, in the State of Arizona.

This survey, designated as number 4845, 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 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.

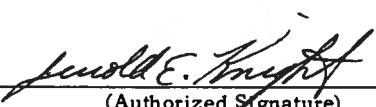
Scottsdale, Arizona
(Location)


(Signature of Mineral Surveyor)

CERTIFICATE OF APPROVAL

Office	Arizona State Office
Location	Phoenix, Arizona
Date	October 1, 1985


The foregoing field notes of mineral survey number 4845, in the NW ¼ of section 4, Range 4 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 November 30, 1981, 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)

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 4845 is a true copy of the original field notes.


(Authorized Signature)

Acting Chief Cadastral Surveyor of Arizona
(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
WASHINGTON, D. C. 20250

TO: [Illegible]

FROM: [Illegible]

SUBJECT: [Illegible]

[Illegible text block]

[Illegible text block]

[Illegible text block]

[Illegible text block]

UNITED STATES DEPARTMENT OF THE INTERIOR 9605 (942)
BUREAU OF LAND MANAGEMENT M.S. 4845
ARIZONA STATE OFFICE

NOTICE OF CANCELLATION OF MINERAL SURVEY

~~The Harborlite Millsite No. 1 and Harborlite Millsite No. 2,~~
Mineral Survey No. 4845, located in Township 2 South, Range 12
East, Gila and Salt River Meridian, Arizona, are hereby canceled.
As of this date, this notice of cancellation will become part of
the field notes for Mineral Survey No. 4845, page 13.


These claims have not been filed with the Arizona State Office,
Bureau of Land Management, in accordance with Section 314, 90 STAT.
2769, (43 U.S.C. 1744).

This cancellation was necessitated to clear the record.

The Mineral Survey Plat will be noted as follows:

"Harborlite Millsite No. 1 and Harborlite Millsite No. 2, Mineral
Survey No. 4845 were canceled February 28, 1994, by memo 9605 (942)
M.S. 4845, which is now a part of the original field notes."

February 28, 1994
Date



Chief Cadastral Surveyor of Arizona

