

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Mineral Survey number  
4813

State  
Arizona

Land District  
Arizona

FIELD NOTES

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

Korhume1 Industries, Inc.  
Sears Tower, Suite 7130  
Chicago, IL 60606

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

CONSISTING OF LOCATIONS NAMED AND LOCATED AS FOLLOWS

NAME OF LOCATION	DATE	
	LOCATED	AMENDED
ROSEMARIE NO. 6 Exception	1-29-67	5-25-67

Mining district Pioneer			County Pinal	
Section 8 & 9	Township 2 South	Range 12 East	Meridian G. & S.R.M.	Survey under order dated 11/25/80
Survey commenced Dec. 30, 1980		Survey completed Apr. 15, 1981	Name of Mineral Surveyor Harvey W. Smith	

1952  
1953  
1954

1955  
1956  
1957  
1958  
1959  
1960

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 30, 1980, at Cor. No. 1 of the ROSE-MARIE No. 6 Exception lode, in latitude  $33^{\circ}16'07.8''N$ . and longitude  $111^{\circ}07'48.9''W$ ., elevation 2,720 ft. above sea level, and temperature  $70^{\circ}F$ ., 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 clockwise from a reference point about 1,000 ft. northeastward to the sun.

Mean time of observation,  
105th meridian standard  
time =  $10^h43^m24^s$  a.m.

Declination of sun at mean  
time of observation =  $23^{\circ}07'10.2''S$ .

Mean observed vertical  
angle to sun's center =  $30^{\circ}29'27''$

Mean horizontal angle from  
reference point clockwise  
to sun's center =  $100^{\circ}07'27''$

True bearing to reference  
point =  $N.58^{\circ}26'38''E$ .

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  $13^{\circ}30'E$ .

Mineral Survey No. 4813

FEET	
	<p style="text-align: center;">ROSEMARIE NO. 6 Exception LODE</p>
	<p>At Cor. No. 1 of the ROSEMARIE NO. 6 Exception lode.</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 R.E.6 1 U.S.M.S. 4813; from which</p>
	<p>The 1/4 sec. cor. of secs. 8 and 9, T.2 S., R.12 E., G. &amp; S.R.M. bears N.5°38'15"W., 720.74 ft. dist., monumented with a stone 6 x 8 ins., 12 ins. above ground, firmly set, properly mkd.</p>
	<p>Cor. No. 1, M.S. No. 4664 Mary T. lode, bears S.44°57'08"W., 135.40 ft. dist.</p>
	<p>Cor. No. 4, M.S. No. 4677 Elva F. No. 1 lode, bears S.73°51'25"W., 566.68 ft. dist.</p>
	<p>A wood post, 4 x 4 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.2°31'44"W.</p>
87.70	<p>Intersect line 1-2, M.S. No. 4664 Mary T. lode, at a point from which Cor. No. 1 bears S.84°53'33"W., 92.16 ft. dist.</p>
105.27	<p>Intersect line 3-4, M.S. No. 4677 Elva F. No. 1 lode, at a point from which Cor. No. 4 bears S.84°27'14"W., 542.23 ft. dist.</p>
299.75	<p>Lode line; discovery point bears S.89°40'W., 175. ft. dist.</p>
419.14	<p>Intersect line 4-1, M.S. No. 4664 Mary T. lode, at a point from which Cor. No. 1 bears N.13°26'24"W., 332.00 ft. dist.</p>
599.50	<p>Cor. No. 2, on line 6-7, M.S. No. 4810 Am. Superior Perlite No. 1. placer.</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 R.E.6 2 U.S.M.S. 4813; from which</p>
	<p>Cor. No. 7, M.S. No. 4810 Am. Superior Perlite No. 1. placer, bears S.89°39'15"W., 41.91 ft. dist.</p>

FEET	
	<p>A wood post, 4 x 4 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>Thence S.89°40'W.</p>
41.91	<p>Intersect the line between secs. 8 and 9 at a point from which the 1/4 sec. cor. of secs. 8 and 9 bears N.0°06'22"W., 1,316.35 ft. dist., heretofore described.</p>
230.50	<p>Intersect line 7-8, M.S. No. 4810 Am. Superior Perlite No. 1. placer, at a point from which Cor. No. 8 bears S.89°40'10"W., 1,118.73 ft. dist.</p>
1,499.50	<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 R.E.6 3 U.S.M.S. 4813; from which</p>
	<p>Cor. No. 8, M.S. No. 4810 Am. Superior Perlite No. 1. placer, bears N.89°36'12"E., 150.27 ft. dist.</p>
	<p>A wood post, 4 x 4 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>Thence N.2°31'44"E.</p>
299.75	<p>Lode line; discovery point bears N.89°40'E., 1,324.50 ft. dist.</p>
599.50	<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 R.E.6 4 U.S.M.S. 4813; from which</p>
	<p>A wood post, 4 x 4 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>Thence N.89°40'E.</p>
122.09	<p>Intersect line 8-1, M.S. No. 4810 Am. Superior Perlite No. 1. placer, at a point from which Cor. No. 8 bears S.0°09'54"E., 598.66 ft. dist.</p>

FEET	
937.34	Intersect line 4-1, M.S. No. 4677 Elva F. No. 1 lode, at a point from which Cor. No. 4 bears S.6°34'49"E., 155.38 ft. dist.
1,430.02	Intersect the line between secs. 8 and 9 at a point from which the 1/4 sec. cor. of secs. 8 and 9 bears N.0°06'22"W., 717.59 ft. dist., heretofore described.
1,499.50	Cor. No. 1, and place of beginning.
	AREAS
	Acres
	Total area, ROSEMARIE NO. 6
	Exception lode ----- 20.611
	Area in conflict with:
	M.S. No. 4664, Mary T. lode ----- 0.348
	M.S. No. 4677, Elva F. No. 1 lode ----- 1.645
	M.S. No. 4677, Elva F. No. 1 lode, exclusive of its conflict with M.S. 4664, Mary T. lode ----- 1.609
	M.S. No. 4810 Am., Superior Perlite No. 1. placer ----- 18.738
	M.S. No. 4810 Am., Superior Perlite No. 1. placer, exclusive of its conflict with:
	(1) M.S. No. 4677, Elva F. No. 1 lode ----- 17.093
	(2) M.S. 4664, Mary T. lode ----- 18.390
	(3) M.S. 4677, Elva F. No. 1 lode, exclusive of its conflict with M.S. No. 4664, Mary T. lode ----- 17.130
	(4) M.S. No. 4677 and 4664, Elva F. No. 1 and Mary T. lodes ----- 16.782
	LOCATION
	This survey is located in the SW 1/4 sec. 9, SE 1/4 sec. 8, T.2 S., R.12 E., G.& S.R.M.
	The survey of the ROSEMARIE NO. 6 Exception lode is identical with the location or amended location 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 embraced in said mining claim by the claimant or its grantors are as follows:
No. 1	The discovery point of the ROSEMARIE NO. 6 Exception lode is on the lode line, 175. ft. from a point on line 1-2, 299.75 ft. from Cor. No. 1, a post and notice.
	Value, None

<p style="text-align: center; margin: 0;">FEET</p> <p style="margin: 0;">No. 2</p>	<p>An open cut, the SE cor. of which bears N.37°W., 230. ft. from Cor. No. 2 ROSEMARIE NO. 6 Exception lode; 75 ft. wide, running S.53°W., 18 ft., to a 6 ft. face.                  Value, \$1,200.00</p> <p style="text-align: center;">OTHER IMPROVEMENTS</p> <p style="text-align: center;">None</p> <p style="text-align: center;">OTHER CORNER DESCRIPTIONS and SUPPLEMENTAL DATA</p> <p>M.S. No. 4664, Mary T. lode: Cors. Nos. 1, 2, 3 and 4 are monumented with 3/4 in. pipe with a brass cap, 1 ft. above ground, firmly set, properly mkd. Line 1-2 was found to be N.84°53'33"E., 1,503.28 ft. instead of N.84°57'E., 1,503.45 ft. as approved. Line 3-4 was found to be S.83°12'47"W., 1,497.30 ft. instead of S.83°16'15"W., 1,497.68 ft. as approved. Line 4-1 was found to be N.13°26'24"W., 592.26 ft. instead of N.13°22'25"W., 592.43 ft. as approved.</p> <p>M.S. No. 4677, Elva F. No. 1 lode: Cors. Nos. 1, 3 and 4 are monumented with 3/4 in. pipe with a brass cap, 1 ft. above ground, firmly set, properly mkd. Line 3-4 was found to be S.84°27'14"W., 1,416.19 ft. instead of S.84°25'20"W., 1,416.16 ft. as approved. Line 4-1 was found to be N.06°34'49"W., 600.08 ft. instead of N.06°38'W., 600.00 ft. as approved.</p> <p>M.S. No. 4810 Am., Superior Perlite No. 1. placer: Cors. Nos. 1, 6, 7 and 8 are monumented with 3/4 in. pipe with a brass cap, 1 ft. above ground, firmly set, properly mkd. Line 6-7 was found to be S.89°39'15"W., 1,310.61 ft. Line 7-8 was found to be S.89°40'10"W., 1,307.32 ft. Line 8-1 was found to be N.0°09'54"W., 1,328.56 ft.</p> <p>The 1/4 sec. cor. of secs. 8 and 9, T.2 S., R.12 E., G.&amp; S.R.M., described above.</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; width: 50%;">Name</th> <th style="text-align: left; width: 50%;">Capacity</th> </tr> </thead> <tbody> <tr> <td>Kent Miller</td> <td>Assistant Instrumentman</td> </tr> <tr> <td>Richard Rice</td> <td>Rodman-Chainman</td> </tr> </tbody> </table>	Name	Capacity	Kent Miller	Assistant Instrumentman	Richard Rice	Rodman-Chainman
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FEET



UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 BUREAU OF LAND MANAGEMENT

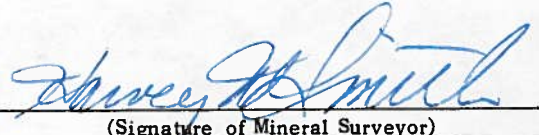
CERTIFICATE OF SURVEYOR

Name of Mineral Surveyor Harvey W. Smith	Date March 16, 1982
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I HEREBY CERTIFY That in pursuance of an order received from the Bureau of Land Management at Phoenix, Arizona, dated November 25, 1980, I have carefully executed the survey of the claim of Korhumel Industries, Inc. known as the (lode, placer, or mill site) ROSEMARIE NO. 6 Exception lode situated in Secs. 8 & 9, Township 2 S., Range 12 E., Gila & Salt River Meridian, in the State of Arizona.

This survey, designated as number 4813, 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) ROSEMARIE NO. 6 Exception lode 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)
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CERTIFICATE OF APPROVAL

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

The foregoing field notes of mineral survey number 4813, in sections 8 and 9, 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 November 25, 1980, 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)
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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)
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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.

THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY  
LABORATORY OF ORGANIC CHEMISTRY

REPORT OF RESEARCH  
BY  
[Name]  
[Title]  
[Date]

The following report describes the work done in the laboratory of Organic Chemistry during the period from [Date] to [Date]. The work was carried out under the supervision of [Supervisor's Name].

The main objective of the work was to study the reaction of [Substrate] with [Reagent] under various conditions. The results of the work are summarized in the following table:

Run	Time (min)	Yield (%)	mp (°C)
1	15	85	120-122
2	30	90	120-122
3	45	88	120-122
4	60	85	120-122

The results show that the reaction proceeds quantitatively under the conditions used. The product is a white solid, melting at 120-122°C. The infrared spectrum of the product shows a strong absorption at [Wavenumber] cm<sup>-1</sup>, characteristic of [Functional Group].

The following table shows the results of the reaction of [Substrate] with [Reagent] under various conditions:

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