

Form 3400-11
(September 1967)
(formerly 4-683)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES

Mineral Survey number
4713

State
Arizona

Land District
Arizona

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

ANAMAX Mining Company
P. O. Box 127
Sahuarita, Arizona 85629

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

CONSISTING OF LOCATIONS NAMED AND LOCATED AS FOLLOWS

NAME OF LOCATION	DATE	
	LOCATED	AMENDED
SHADOW #1	6/14/66	

Mining district Helvetia			County Pima	
Section 23	Township 18 S.	Range 15E.	Meridian G&SR	Survey under order dated 3/28/72, 5/2/77
Survey commenced 4/22/75		Survey completed 5/15/77	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 10-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>May 1, 1975, at Cor. No. 1 of the SHADOW # 1 lode, in latitude $31^{\circ}51'28.8''\text{N.}$, and longitude $110^{\circ}46'51.9''\text{W.}$, elevation 4,505 ft. above sea level, and temperature 78°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 600 ft. southeastward SW to the sun.</p>
	<p>Mean time of observation, 105th meridian standard time = $4^{\text{h}}35^{\text{m}}$ p.m.</p>
	<p>Declination of sun at mean time of observation = $15^{\circ}07'06.6''\text{N.}$</p>
	<p>Mean observed vertical angle to sun's center = $29^{\circ}30'$</p>
	<p>Mean horizontal angle from reference point to sun's center = $133^{\circ}40'29''\text{S-W.}$</p>
	<p>True bearing to reference point = $\text{N.}43^{\circ}35'27''\text{E.}$</p>
	<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.</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 $13^{\circ}30'\text{E.}$</p>
	<p style="text-align: center;">Mineral Survey No. 4713</p>

FEET	SHADOW # 1 LODE
	<p>At Cor. No. 1 of the SHADOW # 1 lode.</p> <p>Set an iron post, 24 ins. long, 3/4 ins. in diam., 12 ins. in the ground, in a concrete and rock base, with a brass cap firmly secured to the iron post, mkd. X S.1 1 U.S.M.S. 4713; from which</p> <p>The 1/4 sec. cor. of secs. 14 and 23, T.18S., R.15E., G.&S.R.M., bears N.4°44'59"E., 1,258.78 ft. dist.; monumented with an iron post, 1 in. in diam., 12 ins. above ground, firmly set, with a brass cap properly mkd. Land Survey Corner R.L.S. 2455 1976</p> <p>The point for the NE. cor. of lot 3, sec.23 bears S.61°03'52"E., 117.45 ft. dist. This point was determined at the intersection of the N - S centerline of sec. 23 with line 2-3, M.S. No. 1388A Old Dick lode; not monumented.</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 S.89°25'07"E.</p>
1,100.	Center of unimproved dirt road, 16 ft. wide, bears N.50°W. and S.60°E.
1,355.36	Intersect line 1-2 M.S. No. 1388A Old Dick lode, common with a portion of line 3-4 New Mexico lode of the same survey, at a point from which Cor. No. 2 bears S.25°30'W., 578.07 ft. dist. Cor. No. 3 of the New Mexico lode, identical with Cor. No. 4 of the Grizzly lode, M.S. No. 1388A, bears S.25°30'W., 117.57 ft. dist.
1,440.	Left bank of local drainage, 15 ft. wide, course N.75°W.
1,449.60	<p>Cor. No. 2.</p> <p>This corner falls in a local drainage where a permanent monument would be obliterated. From this true point</p> <p>Cor. No. 3 M.S. No. 1388A New Mexico lode, identical with Cor. No. 4 M.S. No. 1388A Grizzly lode, on line 1-2 M.S. No. 1388A Old Dick lode, bears S.54°01'W., 178.97 ft. dist.</p> <p>Cor. No. 1 M.S. No. 1388A old Dick lode, identical with Cor. No. 2 American lode and on line 3-4 New Mexico lode, all of the same survey, bears N.76°14'33"W., 87.27 ft. dist.</p>

FEET	
	Thence S.0°43'03"W.
32.04	<p>A point for witness Cor. No. 2.</p> <p>Set an iron post, 24 ins. long, 3/4 ins. in diam., 12 ins. in the ground, in a concrete and rock base, with a brass cap firmly secured to the iron post, mkd. X W.C. S.1 2 U.S.M.S. 4713; from which</p> <p style="padding-left: 40px;">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>
130.	Center of unimproved dirt road, 16 ft. wide, bears N.75°W. and S.75°E.
173.21	Intersect line 2-3, M.S. No. 1388A New Mexico lode, identical with line 4-1, M.S. No. 1388A Grizzly lode, at a point from which Cor. No. 3 of the New Mexico lode, identical with Cor. No. 4 of the Grizzly lode, on line 1-2 M.S. No. 1388A Old Dick lode, bears N.64°30'W., 158.05 ft. dist.
275.47	Lode line; discovery point bears N.89°25'07"W., 1,049.60 ft. dist.
550.94	<p>Cor. No. 3.</p> <p>Set an iron post, 24 ins. long, 3/4 ins. in diam., 12 ins. in the ground, in a concrete and rock base, with a brass cap firmly secured to the iron post, mkd. X S.1 3 U.S.M.S. 4713; from which</p> <p style="padding-left: 40px;">Cor. No. 2, M.S. No. 1388A Old Dick lode, on line 3-4 M.S. No. 1388A Grizzly lode, bears N.84°53'01"W., 337.52 ft. dist.</p> <p style="padding-left: 40px;">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 N.89°25'07"W.</p>
348.86	Intersect line 3-4, M.S. No. 1388A Grizzly lode at a point from which Cor. No. 4, identical with Cor. No. 3 M.S. No. 1388A New Mexico lode, bears N.25°30'E., 489.93 ft. dist.
1,340.45	Intersect the N-S centerline of sec. 23 at a point from which the point for the NE cor. of lot 3 bears N.0°03'47"E., 494.16 ft. dist., heretofore described.

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FEET	
1,449.60	<p>Cor. No. 4.</p> <p>Set an iron post, 24 ins. long, 3/4 ins. in diam., 12 ins. in the ground, in a concrete and rock base, with a brass cap firmly secured to the iron post, mkd. X S.1 4 U.S.M.S. 4713; from which</p> <p style="padding-left: 40px;">Cor. No. 1 M.S. No. 1388A Wedge lode bears N.0°36'13"E., 276.29 ft. dist.</p> <p style="padding-left: 40px;">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 N.0°43'03"E.</p>
275.47	Lode line; discovery point bears S.89°25'07"E., 400.00 ft. dist.
542.07	Intersect line 2-3, M.S. No. 1388A Old Dick lode, common at this point with the north boundary line of lot 3, at a point from which Cor. No. 2 bears S.64°32'58"E., 1,225.49 ft. dist. and the point for the NE cor. of lot 3 bears S.64°32'58"E., 113.96 ft. dist.; heretofore described.
550.94	Cor. No. 1, and place of beginning.
Mineral Survey No. 4713	
AREAS	
	Acres
Total area SHADOW # 1 lode	18.334
Area in conflict with ---	
Lot 3, sec. 23, T.18S., R.15E.	1.263
M.S. No. 1388A Old Dick lode	8.269
M.S. No. 1388A New Mexico lode	0.401
M.S. No. 1388A Grizzly lode	2.401
LOCATION	
<p>This survey is located in the N 1/2, sec. 23, T.18 S., R.15 E., G.& S.R.M.</p> <p>The survey of the SHADOW # 1 lode is identical with the location as marked on the ground.</p>	
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>	

<p>FEET No. 1</p> <p>No. 2</p>	<p>The discovery point of the SHADOW # 1 lode is on the lode line 400 ft. from a point on line 4-1, 275.47 ft. from Cor. No. 4. Value, None.</p> <p>A drill hole, No. 1467, bears N.79°39'E., 1,014. ft. dist. from Cor. No. 4 of the SHADOW # 1 lode; BX in size, 216 ft. deep, vertical angle -36°15' and bearing S.36°44'W. The horizontal dist. of this hole is 174 ft. of which 71 ft. is on the SHADOW # 1 lode. Value, \$1,779.00</p> <p style="text-align: center;">OTHER IMPROVEMENTS</p> <p style="text-align: center;">None</p> <p style="text-align: center;">OTHER CORNER DISCRPTIONS AND SUPPLEMENTAL DATA</p> <p>M.S. No. 1388A Wedge lode: Cor. Nos. 1, 2 and the north side center are wood posts, 4 X 4 ins., 2 1/2 ft. above ground, loosely set in a mound of stones. The inscribed data are partially identifiable. Line 1-2 was found to be S.39°03'11"W., 600.08 ft. instead of S.39°06'W., 600.00 ft. as approved. From the north side center to Cor. No. 1 was found to be S.51°01'04"E., 750.62 ft. instead of S.50°54'E., 750.00 ft. as approved.</p> <p>M.S. No. 1388A Old Dick lode: Cor. No. 2 is a wood post, 4 X 4 ins., 2 ft. above ground, loosely set in a mound of stones. The inscribed data are partially identifiable. Cor. No. 1, identical with Cor. No. 2 of the American lode of the same survey, could not be found. Cor. No. 3 could not be found. Line 2-3 was calculated by the broken boundary method from Cor. No. 2 to Cor. No. 1 of the Wedge lode of the same survey. Line 2-3 was determined to be N.64°32'58"W., 1,478.16 ft. instead of N.64°30'W., 1,479.50 ft. as approved. Line 1-2 is shown as approved.</p> <p>M.S. No. 1388A New Mexico lode: Cor. No. 3, identical with Cor. No. 4 of the Grizzly lode of the same survey, could not be found all lines are shown as approved.</p> <p>M.S. No. 1388A Grizzly lode: Cor. No. 4 described above. Cor. No. 3 could not be found. All lines are shown as approved.</p> <p>Lot 3 sec. 23, T.18 S., R.15 E.,: The point for the NE cor. was determined to be at the intersection of line 2-3, M.S. No. 1388A Old Dick lode with the N.-S. centerline of sec. 23. The 1/4 sec. cor. of secs. 14 and 23 described above. The 1/4 sec. cor. of secs. 23 and 26 is an iron post 1 in. in diam., 12 ins. above ground, firmly set, with a brass cap properly mkd. The N.-S. centerline was found to be N.0°03'47"E.</p>						
<p>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>Ted Hilbrands</td> <td>Instrumentman</td> </tr> <tr> <td>George Erickson</td> <td>Chainman</td> </tr> </tbody> </table>		Name	Capacity	Ted Hilbrands	Instrumentman	George Erickson	Chainman
Name	Capacity						
Ted Hilbrands	Instrumentman						
George Erickson	Chainman						

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FEET

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

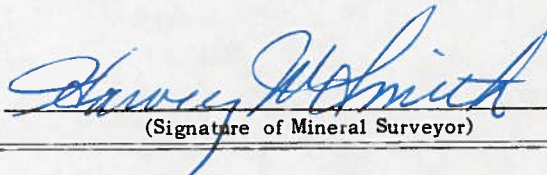
CERTIFICATE OF SURVEYOR

Name of Mineral Surveyor Harvey W. Smith	Date May 15, 1977
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I HEREBY CERTIFY That in pursuance of an order received from the Chief, Branch of Cadastral Survey, Bureau of Land Management, at Phoenix, Arizona, dated 3/28/72 and 5/2/77 (Amended), 19 , I have carefully executed the survey of the claim of ANAMAX Mining Company, known as the (lode, placer, or mill site) SHADOW #1 lode, situated in Helvetia Mining District, Pima County, Section 23, Township 18 S., Range 15 E., G&SR Meridian, in the State of Arizona.

This survey, designated as number 4713, 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.

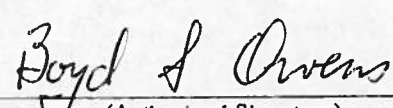
I FURTHER CERTIFY That the labor expended and improvements made upon and for the benefit of the (lode or placer) SHADOW #1 lode location(s) embraced in the said mining claim by claimant(s) or its grantors are fully stated in my report. The character, extent, location, and itemized value are specified 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 Office
Location Phoenix, Arizona
Date January 4, 1979

The foregoing field notes of mineral survey number 4713, in Section 23, Range 15 E., Gila and Salt River Meridian, in the State of Arizona, surveyed unsurveyed Township 18 S., executed by Amended, Mineral Surveyor, under order dated 3/28/72 & 5/2/77, 19, 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) Boyd S. Owens	Chief, Branch of Cadastral Survey (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.

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