

Form 3860-10
(February 1987)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES

Mineral Survey Number

4883

State

Arizona

Land District

Arizona

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

Arizona Exploring and Mining Co.
710 West Bangalor Drive
Oro Valley, AZ 85737

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	
Comet 1	9-1-87	10-19-87	11-23-87	AMC 276660
Amended	3-5-88	3-7-88	4-14-88	
Amended	4-2-88	4-5-88	4-14-88	

LOCATION OF CLAIM(S)

Mining district			County	
Amole			Pima	
Section	Township	Range	Meridian	Survey under order dated
9	13 South	12 East	Gila & Salt River	April 21, 1993
Survey commenced		Survey completed	Name of Mineral Surveyor	
June 18, 1993		Aug. 24, 1993	Gordon W. McLain	

FEET

This survey was made with a Kern DKM-2AE directional theodolite, serial number 327596, with a horizontal circle of 80mm. diam. and a vertical circle of 74mm. diam., both circles are read through an optical micrometer which reads both circles directly to 1 arc second. 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 direction angles, measured to the right, and are referred to the meridian determined by the following observations:

On June 25, 1993, at Corner No. 1 of the Comet 1 lode, in latitude $32^{\circ}19'00''$ N., and longitude $111^{\circ}07'20''$ W., barometric pressure, 27.2 ins/Hg, and temperature 90° F., we made a series of six altitude observations on the sun for azimuth, at approximately equal time intervals, three each, with the telescope in direct and reverse positions, observing the center of the sun, and reading the horizontal angle to the right from Cor. No. 2, Comet 1 lode, clockwise towards the sun.

Mean time of observation,
105th meridian standard
time = $7^{\text{h}}42^{\text{m}}50^{\text{s}}$ a.m.

Declination of sun at mean
time of observation = $23^{\circ}22'38''$

Mean observed vertical angle
to sun's center = $27^{\circ}18'20''$

Mean horizontal angle from
Cor. No. 2 clockwise to
sun's center = $347^{\circ}02'18''$

True bearing to Cor.
No. 2 = $S.88^{\circ}41'26''$ E.

The lines were measured with a Kern DM-503 electronic distance meter, Serial No. 325565 and with a Lufkin 100 ft. steel tape, graduated every foot for 99 ft. and the remainder in tenths and hundredths of a foot; The tape and electronic distance meter were compared with the Tucson Calibration Base Line at the beginning of the survey.

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All lines and connections of this survey were run by direct methods where the lines are accessible; the inaccessible lines were run by traverse methods, as shown by the calculation sheets herewith submitted.

The magnetic declination observed at each corner of the survey gave a uniform value of 13° E.

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COMET 1 LODE

At Cor. No. 1 of the Comet 1 lode.

On the N line of the SE 1/4, Sec.9.

Set an iron post, 26 ins. long, 3/4 in. diam., 18 ins. in the ground, in a mound of stone, 2 ft. base, to top, with aluminum cap mkd. 1-C1-4883; from which

The 1/4 sec. cor. of sec. 9 only, on the W. bdy. of sec. 9, T.13 S., R.12 E., Gila and Salt River Meridian, bears $N.88^{\circ}41'26''W.$, 2690.16 ft. dist.; monumented with an iron post, 1 in. diam., 10 ins. above the ground, firmly set, with brass cap properly mkd.

An iron bar, 1/2 in. diam., 3 ins. above the ground, with the aluminum cap mkd. POL LS 12214; bears $N.18^{\circ}31'23''W.$, 2.43 ft. dist.

A north-south wire fence, 4 ft. high bears west, 0.9 ft. dist.

An iron bar, 1/2 in. diam., 2 ins. above the ground, with the aluminum cap mkd. CTR 9 LS 5713, bears $S.82^{\circ}48'49''E.$, 5.81 ft. dist.

A point for the center 1/4 sec. cor. of sec. 9, bears $N.88^{\circ}41'26''W.$, 0.74 ft. dist.

No local bearing objects or bearing trees available.

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	Thence S.88°41'26"E.
19.	Center of dirt road, 10 ft. wide, bears N.54°E. and S.45°W.
292.	Center of dirt road, 10 ft. wide, bears N.40°E. and S.40°W.
299.71	Lode line; discovery point bears S.1°03'34"W., 450.0 ft. dist.
439.	Wash, 4 ft. wide, course N.2°E.
599.42	Cor. No. 2. On the N. line of the SE 1/4 of Sec.9. Set an iron post, 26 ins. long, 3/4 in. diam., 18 ins. in the ground, in a mound of stone, 2 ft. base, to top, with aluminum cap mkd. 2-C1-4883. No local bearing objects or bearing trees available. Thence S.1°04'45"W.
454.	Wash, 5 ft. wide, course N.76° E.
1499.16	Cor. No. 3 Set an iron post, 26 ins. long, 3/4 in. diam., 18 ins. in the ground, in a mound of stone, 2 ft. base, to top, with the aluminum cap mkd. 3-C1-4883. No local bearing objects or bearing trees available. Thence N.88°41'26"W.
299.20	Lode line; discovery point bears N.1°03'34"E., 1049.17 ft. dist.
420.	Horse trail, 2 ft. wide, bears N.75°W. and S.75°E.
592.	Wash, 5 ft. wide and horse trail, 2 ft. wide, course S.56°E.
596.	Wire fence, 4 ft. high, bears N.1° E. and S.1° W.

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598.40	<p>Cor. No. 4</p> <p>Set an iron post, 26 ins. long, 3/4 in. diam., 18 ins. in the ground, in a mound of stone, 2 ft. base, to top, with the aluminum cap mkd. 4-C1-4883; from which</p> <p style="padding-left: 40px;">A fence post, 4 ft. high, 2 ins. diam. bears N.23°04'24"E., 4.65 ft. dist.</p> <p style="padding-left: 40px;">A cor. of location bears S.1°02'24"W., 0.80 ft. dist.</p> <p>No local bearing objects or bearing trees available.</p> <p style="text-align: center;">Thence N. 1°02'24"E.</p>
4.	Wash, 5 ft. wide and horse trail, 2 ft. wide, course S.56°E.
331.	Wash, 4 ft. wide, course S.36° W.
897.	Center of abandoned dirt road, 12 ft. wide, bears N.83° W. and S.83° E.
992.	Toe of mine dump, bears N.47° W. and S.47° E.
1068.	Toe of mine dump, bears N.88°W. and S.76°E.
1313.	Center of abandoned dirt road, 10 ft. wide, bears N.54° W. and S.54° E.
1366.	Center of abandoned dirt road, 10 ft. wide, bears N.60° W. and S.55° E.
1369.	Overhead electric line, bears N.71°E. and S.71°W.
1414.	Center of abandoned dirt road, 10 ft. wide, bears N.87°E. and S.87°W.
1474.	Center of abandoned dirt road, 10 ft. wide, bears N.45°E. and S.45°W.
1499.17	Cor. No. 1, and the place of beginning,

FEET	<hr/> <p style="text-align: center;">Mineral Survey No. 4883</p> <hr/> <p style="text-align: center;">AREAS</p> <table style="width: 100%; border: none;"> <thead> <tr> <th style="width: 85%;"></th> <th style="text-align: right; width: 15%;">Acres</th> </tr> </thead> <tbody> <tr> <td>Total area, Comet 1 lode.....</td> <td style="text-align: right;">20.612</td> </tr> </tbody> </table> <p style="text-align: center;">LOCATION</p> <p>This survey is located in the SE 1/4 sec. 9, of T.13 S., R.12 E., Gila and Salt River Meridian. The survey of the Comet 1 lode is wholly within the amended location as marked on the ground; Cors. Nos. 1, 2 and 3 are identical with the corners of the location; Cor. No. 4 differs to the extent previously shown.</p> <p style="text-align: center;">EXPENDITURES</p> <p>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:</p> <table style="width: 100%; border: none;"> <tbody> <tr> <td style="width: 10%; vertical-align: top;">No.1</td> <td>The discovery point of the Comet 1 lode is on the lode line 450 ft. from a point on line 1-2, 299.71 ft. from Cor. No. 1. Value, none.</td> </tr> <tr> <td style="vertical-align: top;">No.2</td> <td>A cut 6x14 ft., having an average depth of 5 ft., along the west face of the main incline shaft, the center of which bears S.4°35'E., 525 ft. dist. from Cor. No.1 Comet 1 lode. Value, \$830.00</td> </tr> </tbody> </table> <p style="text-align: center;">OTHER IMPROVEMENTS</p> <p>A partial chain link enclosure, 218x93 ft., the NW cor. of which bears S.72°10' E., 23 ft. from Cor. No. 1 Comet 1 lode; the long side bears S.88°40'E. Claimant unknown.</p>		Acres	Total area, Comet 1 lode.....	20.612	No.1	The discovery point of the Comet 1 lode is on the lode line 450 ft. from a point on line 1-2, 299.71 ft. from Cor. No. 1. Value, none.	No.2	A cut 6x14 ft., having an average depth of 5 ft., along the west face of the main incline shaft, the center of which bears S.4°35'E., 525 ft. dist. from Cor. No.1 Comet 1 lode. Value, \$830.00
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	<p>A lined leach pit, 20x30 ft., 4 ft. deep, the center of which bears S.64°40'E., 71 ft. from Cor. No. 1 Comet 1 lode. Claimant unknown.</p>
	<p>An ore dump, 40x40 ft., the NW Cor. of which bears S.44°30'E., 60 ft. from Cor. No. 1 Comet 1 lode. Claimant unknown.</p>
	<p>An ore dump, 40x50 ft., the NW Cor. of which bears S.53°30'E., 270 ft. from Cor. No. 1 Comet 1 lode. Claimant unknown.</p>
	<p>A dump, 100 ft. north-south by 80 ft. east-west, the NW Cor. of which bears S.65°10'E., 285 ft. from Cor. No. 1 Comet 1 lode. Claimant unknown.</p>
	<p>The remains of concrete mill foundations, the center of which bears S.44°40'E., 370 ft. from Cor. No. 1 Comet 1 lode. Claimant unknown.</p>
	<p>An incline shaft, 6x6 ft., 8 ft. deep, the center of which bears S.54°21'E., 585 ft. from Cor. No. 1 Comet 1 lode. Claimant unknown.</p>
	<p>An incline shaft, 6x8 ft., 8 ft. deep, the center of which bears S.62°11'E., 590 ft. from Cor. No. 1 Comet 1 lode. Claimant unknown.</p>
	<p>An incline shaft, 6x6 ft., 20 ft. deep., the center of which bears S.63°38'E., 600 ft. from Cor. No. 1 Comet 1 lode. Claimant unknown.</p>
	<p>A pit, 6x6 ft., 4 ft. deep, the center of which bears S.64°55'E., 615 ft. from Cor. No. 1 Comet 1 lode. Claimant unknown.</p>
	<p>A dump, 50x30 ft., the SW Cor. of which bears S.20°25'E., 418 ft. from Cor. No. 1 Comet 1 lode. Claimant unknown.</p>
	<p>A pit, 10x15 ft., 4 ft. deep, the center of which bears S.26°06'E., 474 ft. from Cor. No. 1 Comet 1 lode. Claimant unknown.</p>

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A pit, 6x8 ft., 3 ft. deep, the center of which bears S.25°06'E., 516 ft. from Cor. No.1 Comet 1 lode. Claimant unknown.

A cut 10 ft. wide, the face of which bears S.30°42'E., 565 ft. from Cor. No.1 Comet 1 lode, runs N.48°W., 25 ft. to a 15 ft. face. Claimant unknown.

A dump, 50x110 ft., the SE Cor. of which bears S.18°30'E., 403 ft. from Cor. No.1 Comet 1 lode. Claimant unknown.

A shaft, 8x8 ft., 8 ft. deep, the center of which bears S.15°07'E., 458 ft. from Cor. No.1 Comet 1 lode. Claimant unknown.

A dump, 50x145 ft., the center of the highest point bears S.2°03'E., 468 ft. from Cor. No.1 Comet 1 lode. Claimant unknown.

A pit, 6x10 ft., 6 ft. deep, the center of which bears S.11°30'E., 1008 ft. from Cor. No.1 Comet 1 lode. Claimant unknown.

A pit, 6x6 ft., 4 ft. deep, the center of which bears S.15°13'E., 1034 ft. from Cor. No.1 Comet 1 lode. Claimant unknown.

The Old Yuma Mine main incline shaft has a surface opening of 24x30 ft., which bears S.8°10'E., 524 ft. from Cor. No.1 Comet 1 lode; The shaft is equipped with the remains of a hoist, with an average dip of 45° in a S.30°E. direction, the total depth of the incline shaft has been reported to be 300 ft.; East of the main shaft is a 40x60 ft., 30 ft. deep glory hole which bears S.12°45'E., 525 ft. from Cor. No.1 Comet 1 lode; Open stope with a 20x35 ft. surface opening bears S.2°40'E., 555 ft. from Cor. No.1 Comet 1 lode, this shaft narrows to a 10x18 ft. timbered area and appears to access the west 65 ft. level; A shaft 8x8 ft. which appears to access the east 65 ft. level, bears S.9°55'E., 558 ft. dist. from Cor. No.1 Comet 1 lode; The east entrance is a 15x6 ft. incline shaft which is at the west end of a 25x50 ft. open cut, this shaft appears to access the east 100 ft. level, the

FEET

shaft bears S.33°50'E., 535 ft. from Cor. No.1 Comet 1 lode; The underground workings consists of a east-west 65 ft. level, east-west 100 ft. level, east-west 200 ft. level and various stopped areas. No attempt was made to survey to underground workings.

Claimant unknown.

OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

Sec.9, T.13 S., R.12 E., Gila and Salt River Meridian; the point for the 1/4 sec. cor. of sec.9 only, on the W. bdy. of sec.9 is monumented with an iron post, 1 in. diam., firmly set, projecting 10 ins. above the ground, with a brass cap mkd. as described in the official G.L.O. record of the 1932 survey; the point for the 1/4 sec. cor. of secs.9 and 10 is monumented with an iron pipe, 2 ins. diam., firmly set, projecting 12 ins. above the ground, with a lead plug mkd. 1/4 9/10; the point for the 1/4 cor. of secs.4 and 9 is monumented with an iron bar 1/2 in. diam., firmly set, projecting 12 ins. above the ground, with an aluminum cap mkd. 1/4 4/9, National Park Service; the point for the 1/4 sec. cor. of secs.9 and 16 is monumented with a concrete cylinder 6 ins. diam., firmly set, projecting 6 ins. above the ground, with an aluminum cap mkd. 1/4 S9 and S16, National Park Service; the east-west center sec. line of sec.9 was found to be S.88°41'26"E., 5313.60 ft.; the north-south center sec. line of sec.9 was found to be N.1°03'06"E., 5397.16 ft. Therefore, from a point for the center 1/4 sec. cor. to the 1/4 sec. cor. between secs.9 and 10, bears S.88°41'26"E., 2624.18 ft. dist.; from a point for the center 1/4 sec. cor. to the 1/4 sec. cor. between secs.9 and 16, bears S.1°03'06"W., 2804.50 ft. dist.; The point for the center 1/4 sec. cor. is established to determine the relationship of the Comet 1 lode claim to the patented surface land along the south line of the NE 1/4 of sec.9 and the National Park Service land along the east line of the W 1/2 of sec.9.

FEET	
	MEMORANDUM None
	FIELD ASSISTANTS

Mike Owens	Instrumentman
C.L. Smith	Rodman
Gordon McLain	Rodman

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

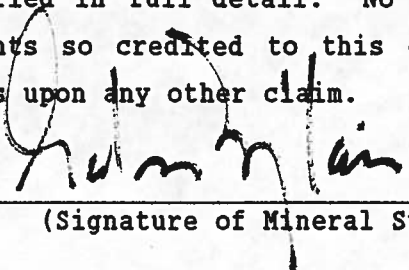
Name of Mineral Surveyor	Date
Gordon W. McLain	DEC. 15, 1993

I HEREBY CERTIFY That in pursuance of an order received from the Arizona State Office, Bureau of Land Management, at Phoenix, Arizona, dated April 21, 1993, I have carefully executed the survey of the claim of Arizona Exploring and Mining Co., known as the COMET 1 lode, situated in surveyed section 9, Township 13 South, Range 12 East, Gila and Salt River Meridian, in the State of Arizona.

This survey, designated as number 4883, 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 COMET 1 lode 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.

Tucson, 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
February 1, 1994

The foregoing field notes of mineral survey number 4883, in surveyed section 9, Township 13 South, Range 12 East, Gila and Salt River Meridian, in the State of Arizona, executed by Gordon W. McLain, Mineral Surveyor, under order dated April 21, 1993, 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.

James P. Kelly

(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 4883 is a true copy of the original field notes.~~

~~Chief Cadastral Surveyor of Arizona~~

~~(Authorized Signature)~~

~~(Title)~~