01

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES

Mineral Survey number: 4828
State: Arizona
Land District: Arizona

Of the Survey of the Mining Claim of *(name and address of Claimant)*
THE NEW JERSEY ZINC EXPLORATION COMPANY
c/o John Teet, Mgr., Western Exploration
2030 E. Broadway
Tucson, Arizona 85719

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

CONSISTING OF LOCATIONS NAMED AND LOCATED AS FOLLOWS

NAME OF LOCATION	DATE LOCATED	DATE AMENDED
POP #28	2/01/74	3/08/81
POP #29	2/01/74	6/02/81

Mining district: Silver			County: Yuma	
Section: 1	Township: 4 South	Range: 23 West	Meridian: Gila & Salt River	Survey under order dated: June 24, 1981
Survey commenced: January 5, 1982	Survey completed: March 24, 1982		Name of Mineral Surveyor: Gordon W. McLain	

GPO 853-156

FEET

This survey was made with a Kern DKM-1 directional theodolite No. 166718, with a horizontal circle of 50 mm. diameter and a vertical circle of 50 mm. diameter; both circles are read through an optical microscope that views diametrically opposite points on the graduated circle scales; an index line is operated by a micrometer drum which reads both horizontal and vertical angles directly to 10" and by estimation to 1" of arc. This 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 observation:

January 8, 1982, at Cor. No. 4 of the Pop #28 lode, in latitude 33°06'28" N., and longitude 114°34'58" W., elevation 850 ft. above sea level, and temperature 50° F., make a series of six altitude observations of 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 Cor. No. 1 of the POP #28 lode southeast to the sun:

Mean time of observation, 105th meridian standard time = $10^h01^m40^s$ a.m.

Declination of sun at mean time of observation = 22°12'55" S.

Mean observed vertical angle to sun's center = 22°17'48"

Mean horizontal angle from Cor. No. 1 to sun's center = 250°44'16"

True bearing to Cor. No. 1 = S. 68°15'22" W.

The lines were measured with a Lufkin 100 ft. steel tape, graduated every foot for 99 ft. and the remainder in tenths and hundredths of a foot, and with a Topcon DM-C2 electronic distance meter, Serial No. 911223, with a mean square error of +(0.02 ft. + 5 ppm). The tape was compared with a 100 ft. standard tape at the beginning of the survey and found to be correct. The electronic distance meter was in good condition at the time of the survey and all adjustments were in good order.

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

FEET	
	Mineral Survey No. 4828
	POP #28 Lode
	Beginning at Cor. No. 1 POP #28 lode, identical with S.E. Cor., General Number 161 Princess lode Lot No. 37,and with Cor. No. 1 of the POP #29 lode this survey, and with a cor. of the location.
	Set an aluminum cap, 2 ins. diam., 2 1/2 ins. stem, in concrete, at ground surface, raised a mound of stone, 3 ft. base, 3 ft. high, S. of cor., marked the aluminum cap 1-P28 1-P29 U.S.S. 37 S.E. M.S. 4828; from which
	The cor. of secs. 1,2,11 and 12, T.4 S., R.23 W., G.&S.R.M. bears S. 46°38'26"W., 3805.07 ft. dist., monumented with an iron post, 2 1/2 ins. diam., 22 ins. above the ground, firmly set, with the brass cap properly marked.
	The S. cor. of the MAXIE lode (unsurveyed), bears N.6°48'29"E., 430.39 ft. dist.
	No local bearing objects or bearing trees available.
	Thence N.21°37'18" W.
495.	Center of wash, 4 ft. wide, course N.50° W.
785.	Center of road, 10 ft. wide, course N.75° E. and S.75° W.
1448.08	Cor. No. 2, identical with N.E. Cor., General Number 161, Princess lode, Lot No. 37, and with a cor. of the location.
	Set an aluminum cap, 2 ins. diam., 2 1/2 ins. stem, in concrete, at ground surface, raised a mound of stone, 3 ft. base, 3 ft. high, SW. of cor., marked the aluminum cap 2-P28 U.S.S.37 N.E. M.S. 4828.
	No local bearing objects or bearing trees available.
	Thence N.68°15'22" E.
208.86	Intersect SW. side line of MAXIE lode (unsurveyed), from which point the S. cor. bears S.21°24'35" E., 1070.05 ft. dist.
278.21	Lode line; discovery point bears S.21°37'18" E., 1353.08 ft. dist.
475.	Center of wash, 4 ft. wide, course S.25° E.
556.41	Cor. No. 3, identical with a cor. of the location.

FEET	
	Set an aluminum cap, 2 ins. diam., 2 1/2 ins. stem, in concrete, at ground surface, raised a mound of stone, 3 ft. base, 4 ft. high, S. of cor., marked the aluminum cap 3-P28 M.S. 4828; from which
	The W. face of a 4 ft. sq. boulder, 3 ft. high, bears N.24°55' E., 56.24 ft. dist., marked X BO 3-P28 M.S. 4828.
	The W. face of a 3 ft. X 2 ft. boulder,3 ft. high, bears S.83°54' E., 43.19 ft. dist., marked X BO 3-P28 M.S. 4828.
	Thence S.21°37'18" E.
120.	Center of wash, 2 ft. wide, course due S.
155.	Center of road, 10 ft. wide, course N.15° W. and S.15° E.
195.	Center of wash, 2 ft. wide, course S.75° W.
330.	Center of road, 8 ft. wide, course N.70° W.
345.	Center of wash, 4 ft. wide, course S.75° W.
370.	Center of road, 10 ft. wide, course N.25° E. and S.25° W.
1073.50	Intersect S. end line, MAXIE lode (unsurveyed), from which point the S. cor. bears S.68°49'16" W., 351.52 ft. dist.
1448.08	Cor. No. 4, identical with Cor. No. 2 of the POP #29 lode of this survey, and with a cor. of the location.
	Set an aluminum cap, 2 ins. diam., 2 1/2 ins. stem, cemented in a drill hole, at ground surface, encircled the aluminum cap with a 3 ft. diam. mound of stone, marked the aluminum cap, 4-P28 2-P29 M.S. 4828; from which
	The E. face of a 1 ft. X 3 ft. boulder, 1 ft. high, bears N.80°03' W., 20.64 ft. dist., marked X BO 4-P28 2-P29 M.S. 4828.
	The S. face of a 2 ft. X 4 ft. boulder, 3 ft. high, bears N.25°12' E., 6.48 ft. dist., marked X BO 4-P28 2-P29 M.S. 4828.
	Thence S.68°15'22" W.
145.	Center of road, 10 ft. wide, course N.25° W. and S.25° E.
180.	E. edge drill pad.
205.	W. edge drill pad.
278.20	Lode line; discovery point bears N.21°37'18" W., 95.00 ft. dist.
285.	Center of wash, 2 ft. wide, course S.40° E.

FEET	
315.	Center of road, 12 ft. wide, course N.30° W. and S.30° E.
556.41	Cor. No. 1, and place of beginning.

POP #29 Lode

Beginning at Cor. No. 1 POP #29 lode, identical with SE. Cor., General Number 161, Princess lode, Lot No. 37, and with Cor. No. 1 of the POP #28 lode of this survey, and with a cor. of the location.

Thence N.68°15'22" E.

241.	Center of road, 12 ft. wide, course N.30° W. and S.30° E.
271.	Center of wash, 2 ft. wide, course S.40° E.
278.21	Lode line; discovery point bears S.21°43'33" E., 155.00 ft. dist.
351.	W. edge drill pad.
376.	E. edge drill pad.
411.	Center of road, 10 ft. wide, course N.25° W. and S.25° E.
556.41	Cor. No. 2, identical with Cor. No. 4 of the POP #28 lode of this survey and with a cor. of the location.

Thence S.21°43'33" E.

225.	Center of road, 10 ft. wide, course N.80° W. and N.80° E.
250.	Center of wash, 8 ft. wide, course due E.
1350.	Center of sand wash, 8 ft. wide, course due E.
1480.00	Cor. No. 3, identical with a cor. of the location.

Set an aluminum cap, 2 ins. diam., 2 1/2 ins. stem, cemented in a drill hole, at ground surface, raised a mound of stone, 3 ft. base, 2 ft. high, NE. of cor., marked the aluminum cap 3-P29 M.S. 4828.

No local bearing objects or bearing trees available.

Thence S.68°15'22" W.

278.20	Lode line; discovery point bears N.21°43'33" W., 1325.00 ft. dist.
556.41	Cor. No. 4, identical with a cor. of the location.

FEET	
	Set a 3/4 ins. diam. galvanized iron pipe, 26 ins. long, 14 ins. in the ground, 3 ft. diam. mound of stone to top, with a 2 ins. diam. aluminum cap marked 4-P29 M.S. 4828.
	No local bearing objects or bearing trees available.
	Thence N.21°43'33" W.
325.	Center of wash, 4 ft. wide, course N.65° E.
515.	Center of wash, 6 ft. wide, course S.80° E.
810.	Center of wash, 10 ft. wide, course S.85° E.
1065.	Center of road, 10 ft. wide, course N.40° E. and S.40° W.
1480.00	Cor. No. 1, and place of beginning.

Mineral Survey No. 4828

AREAS	Acres
Total area, POP #28lode	18.497
Area in conflict with MAXIE lode (unsurveyed)	8.600
Total area, POP #29 lode	18.905

LOCATION

This survey is located in the NW. 1/4, NE. 1/4, and SE. 1/4 of sec. 1, T.4 S., R.23 W., G.& S.R.M., and is wholly within the amended locations as marked on the ground.

EXPENDITURES

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:

No. 1	The discovery point of the POP #28 lode bears S.21°37'18" E., 1353.08 ft. dist. from the N. end line.. Value, none
No. 2	A drill hole, 2 ins. diam., 70 ft. long, vertical, the collar of which bears N.30°36' E., 324.8 ft. dist. from Cor. No. 1. Value, $245.00
No. 3	A drill hole, 2 ins. diam., 90 ft. long, vertical, the collar of which bears N.36°35' E., 351.1 ft. dist. from Cor. No. 1. Value, $315.00

FEET	
No. 4	A drill hole, 2 ins. diam., 30 ft. long, vertical, the collar of which bears N.38°32' E., 390.2 ft. dist. from Cor. No. 1. Value, $105.00
No. 5	A drill hole, 2 ins. diam., 50 ft. long, vertical, the collar of which bears N.53°33' E., 425.8 ft. dist. from Cor. No. 1. Value, $257.00
No. 6	A drill hole, 2 ins. diam., 80 ft. long, vertical, the collar of which bears N.44°34' E., 406.4 ft. dist. from Cor. No. 1. Value, $280.00
No. 7	A drill hole, 5 ins. diam., 76 ft. long, running S.30° W. at an inclination of -20°, the collar of which bears N.59°25' E., 214.9 ft. dist. from Cor. No. 1. Value, $703.00
No. 8	A drill hole, 5 ins. diam., 76 ft. long, running N.50° W. at an inclination of -35°, the collar of which bears N.51°51' E., 236.9 ft. dist. from Cor. No. 1. Value, $703.00
No. 9	A drill hole, 2 ins. diam., 80 ft. long, vertical, the collar of which bears N.64°52' E., 299.9 ft. dist. from Cor. No. 1. Value, $280.00
No. 10	A drill hole, 2 ins. diam., 55 ft. long, running S.36° W. at an inclination of -60°, the collar of which bears N.57°30' E., 224.8 ft. dist. from Cor. No. 1. Value, $192.50
No. 11	A drill hole, 2 ins. diam., 70 ft. long, vertical, the collar of which bears N.54°44' E., 280.8 ft. dist. from Cor. No. 1. Value, $245.00
No. 12	A drill hole, 2 ins. diam., 70 ft. long, vertical, the collar of which bears N.45°04' E., 251.6 ft. dist. from Cor. No. 1. Value, $245.00
No. 13	A drill hole, 2 ins. diam., 110 ft. long, vertical, the collar of which bears N.54°55' E., 334.8 ft. dist. from Cor. No. 1. Value, $385.00
No. 14	A drill hole, 2 ins. diam., 50 ft. long, vertical, the collar of which bears N.52°10' E., 374.4 ft. dist. from Cor. No. 1. Value, $175.00
No. 15	A drill hole, 2 ins. diam., 30 ft. long, vertical, the collar of which bears N.53°52' E., 381.1 ft. dist. from Cor. No. 1. Value, $105.00

FEET	
No. 16	A drill hole, 2 ins. diam., 65 ft. long, vertical, the collar of which bears N.44°58' E., 311.0 ft. dist. from Cor. No. 1. Value, $227.50
No. 17	A drill hole, 2 ins. diam., 55 ft. long, vertical, the collar of which bears N.45°02' E., 349.9 ft. dist. from Cor. No. 1. Value, $192.50
No. 1	The discovery point of the POP #29 lode bears S.21°43'33" E., 155.00 ft. dist/ from the N. end line. Value, none
No. 2	A drill hole, 5 ins. diam., 156 ft. long, running S.40° W. at an inclination of -45°, the collar of which bears N.70°58' E., 363.5 ft. dist. from Cor. No. 1. Value, $1443.00
No. 3	A drill hole, 5 ins. diam., 66 ft. long, running S.40° W. at an inclination of -45°, the collar of which bears S.87°38' E., 358.8 ft. dist. from Cor. No. 1. Value, $610.50
No. 4	A drill hole, 5 ins. diam., 76 ft. long, running S.40° W. at an inclination of -30°, the collar of which bears N.84°21' E., 258.3 ft. dist. from Cor. No. 1. Value, $703.00
No. 5	A drill hole, 2 ins. diam., 40 ft. long, vertical, the collar of which bears N.88°19' E., 387.6 ft. dist. from Cor. No. 1. Value, $140.00
No. 6	A drill hole, 2 ins. diam., 45 ft. long, vertical, the collar of which bears N.81°51' E., 423.0 ft. dist. from Cor. No. 1. Value, $157.50
No. 7	A drill hole, 2 ins. diam., 35 ft. long, running S.54° W. at an inclination of -78°, the collar of which bears N.77°14' E., 301.5 ft. dist. from Cor. No. 1. Value, $122.50
No. 8	A drill hole, 2 ins. diam., 50 ft. long, vertical, the collar of which bears S.86°31' E., 433.6 ft. dist. from Cor. No. 1. Value, $257.00
	OTHER IMPROVEMENTS
	An adit, 5 ft. X 6 ft., with approximately 125 ft. of associated workings, running S.80° W., the portal of which bears N.49°07' E., 242. ft. dist. from Cor. No. 1 of the POP #28 lode. Claimant unknown

	FEET		
		An adit, 5 ft. X 6 ft., 8 ft. long, running S.75° W., the portal of which bears N.16°44' E., 489. ft. dist. from Cor. No. 1 of the POP #28 lode. Claimant unknown	
		An open cut, 10 ft. sq., 6 ft. deep, the center of which bears N.51°57' E., 150. ft. dist. from Cor. No. 1 of the POP #28 lode. Claimant unknown	
		An open cut, 6 ft. sq., 4 ft. to 8 ft. deep, the center of which bears N.10°06' W., 641. ft. dist. from Cor. No. 1 of the POP #28 lode. Claimant unknown	
		A pit, 12 ft. X 8 ft., 2 ft. deep, the center of which bears N. 4°25' W., 1111. ft. dist. from Cor. No. 1 of the POP #28 lode. Claimant unknown	
		An open cut, 6 ft. wide, 4 ft. to 10 ft. deep, 50 ft. long, running N.10° W., the south end of which bears N.15°39' W., 1101. ft. dist. from Cor. No. 1 of the POP #28 lode. Claimant unknown	
		A pit, 6 ft. sq., 8 ft. deep, the center of which bears N. 1°13' E., 1282. ft. dist. from Cor. No. 1 of the POP #28 lode. Claimant unknown	
		A pit, 6 ft. X 10 ft., 4 ft. deep, the center of which bears N. 0°42' W., 1347. ft. dist. from Cor. No. 1 of the POP #28 lode. Claimant unknown	
		A vertical shaft, 6 ft. X 8 ft., approximately 30 ft. deep, bears N.71°58' E., 332. ft. dist. from Cor. No. 1 of the POP #29 lode. Claimant unknown	
		A vertical shaft, 4 ft. X 6 ft., 6 ft. deep, bears S.85°04' E., 349. ft. dist. from Cor. No. 1 of the POP #29 lode. Claimant unknown	
		An open cut, 3 ft. wide, 4 ft. deep, 8 ft. long, running N.40° E. and S.40° W., the center of which bears S.73°06' E., 291. ft. dist. from Cor. No. 1 of the POP #29 lode. Claimant unknown	
		An open cut, 5 ft. wide, 4 ft. deep, 20 ft. long, running N.80° W. and S.80° E., the center of which bears S.86°59' E., 243. ft. dist. from Cor. No. 1 of the POP #29 lode. Claimant unknown	
		An open cut, 5 ft. wide, 8 ft. deep, 15 ft. long, running N.70° E. and N.70° W., the center of which bears N.87°03' E., 190. ft. dist. from Cor. No. 1 of the POP #29 lode. Claimant unknown	

FEET

An open cut, 5 ft. wide, 4 ft. deep, 20 ft. long, running N.85° E. and S.85° W., the center of which bears N.71°34' E., 153. ft. dist. from Cor. No. 1 of the POP #29 lode.
Claimant unknown

OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

General Number 161 Princess lode Lot No. 37: NE. Cor. was a mound of stone firmly set , with remains of a wood post, set monument previously described. The SE. Cor. was a mound of stone, firmly set, set monument previously described. Line SE.-NE. was found to be S.21°37'18"E., 1448.08 ft. instead of S.21°30'E., 1500 ft., as approved.

MEMORANDUM
None

FIELD ASSISTANTS

Steven S. Owens.....Instrumentman

Jeff Pferdeort.....Rodman

	FEET		

GPO 845-746

Form 3860–7
(November 1976)
(formerly 3400–8)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

Name of Mineral Surveyor	Date
Gordon W. McLain	June 11, 1982

I HEREBY CERTIFY That in pursuance of an order received from the Bureau of Land Management, at Phoenix, Arizona, dated June 24, 1981, I have carefully executed the survey of the claim of THE NEW JERSEY ZINC EXPLORATION COMPANY, known as the *(lode, placer, or mill site)* POP #28 and POP #29 lodes, situated in Section 1, Township 4 S., Range 23 W., Gila & Salt River Meridian, in the State of Arizona.

This survey, designated as number 4828, 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)* 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.

Tucson, Arizona
(Location)

Gordon W. McLain
(Signature of Mineral Surveyor)

CERTIFICATE OF APPROVAL

Office	Arizona State Office
Location	Phoenix, Arizona
Date	November 26, 1984

The foregoing field notes of mineral survey number 4828, in the NE¼, SE¼ and NW¼ of section 1, ☒ surveyed ☐ unsurveyed Township 4 S., Range 23 W., Gila & Salt River Meridian, in the State of Arizona, executed by Gordon W. McLain, Mineral Surveyor, under order dated June 24, 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.

James P. Kelley
(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 4828 is a true copy of the original field notes.

~~Chief Cadastral Surveyor of Arizona~~
(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.

GPO 838-009