

Form 4-683
(January 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Mineral Survey number
4748

State
Arizona

Land District

FIELD NOTES

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

American Smelting and Refining Company
P. O. Box 5747
Tucson, Arizona 85703

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

Silver Bell

CONSISTING OF LOCATIONS NAMED AND LOCATED AS FOLLOWS

NAME OF LOCATION	DATE	
	LOCATED	AMENDED
EL TIRO 18	6/30/71	3/31/72

Mining district			County	
Silver Bell			Pima	
Section	Township	Range	Meridian	Survey under order dated
33	11 South	8 East	Gila & Salt River	June 7, 1973
Survey commenced		Survey completed		Name of Mineral Surveyor
10-4-73		10-12-73		Robert Lenon

Arizona
1948

FIELD NOTES
BUREAU OF LAND MANAGEMENT
DEPARTMENT OF THE INTERIOR
UNITED STATES

American Smelting and Refining Company
P. O. Box 5707
Tucson, Arizona 85703

Silver Bell

DESCRIPTION OF LOCATION NAME AND LOCATION NUMBER

DATE	NAME OF LOCATION
6/30/73	SILVER BELL

10-4-73	10-12-73	Robert Jensen	Silver Bell
33	11 South 8 East	Gila & Salt River June 7, 1973	Prime

FEET	EL TIRO 18 LODE
	<p>This survey was made with a Lietz Precise transit No. 65718, with horizontal limb 5-1/2 ins. diam., having two double opposite verniers reading to 20 seconds of arc, and full vertical circle 4-1/2 ins. diam., having one double vernier reading to 1 minute of arc; the eyepiece has a removable colored glass for making direct observations upon the sun. 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 referred to the meridian of the American Smelting and Refining Company's Silverbell triangulation system, set out on a local plane grid, and which I checked by solar observations made at 32°25'45" N. Lat., and 111°31'30" W., Long., on Sept. 20, 1973, as described in my field notes in Min. Sur. No. 4744, and found to be correct.</p> <p>The lines were measured with a Hewlett-Packard distance-meter, and a Chicago steel tape, 300 feet in length, graduated every foot, with the end feet graduated to tenths; which was compared with a Tufkin standard at the time of beginning the survey and found 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°00' E.</p>
	Mineral Survey No. 4748
	EL TIRO 18 LODE
	<p>At Cor. No. 1 of the El Tiro 18 lode of this survey.</p> <p>Set an iron pin, 5/8 in. diam., 24 ins. long, 18 ins. in the ground, with stone mound alongside, with aluminum cap mkd. X-ET18-1-4748; from which</p> <p style="padding-left: 40px;">The 1/4 sec. cor. common to secs. 33 and 34, T. 11 S., R. 8 E., G. & S.R.M., bears N. 62°44'10" E., 1974.63 ft. dist., a G.L.O. brass-cap, firmly set and properly mkd.</p> <p style="padding-left: 40px;">Cor. No. 3, Sur. No. 2513 Ruby lode, bears N. 29°43'30" W., 67.96 ft. dist.</p> <p style="padding-left: 40px;">Cor. No. 2, Sur. No. 4744 NSB 6 lode, bears S. 21°53'20" W., 305.54 ft. dist.</p> <p style="padding-left: 40px;">Thence S. 7°55'10" E.</p>
187.03	<p>Intersect line 2-3, identical with line 5-1, Sur. No. 4329 Bobby and Eugene Mine lodes, respectively, at a point from which Cor. Nos. 3 and 5 respectively bears S. 66°50' W., 90.34 ft. dist., identical with Cor. No. 4, Sur. No. 1987 Strip lode.</p>

FEET	
200.00	Cor. No. 4, Sur. No. 2513 Ruby lode.
210.00	Lode line; discovery point bears S. 82°04'50" W., 725 ft. dist.
223.85	Intersect line 1-2, Sur. No. 4744 NSB 6 lode, at a point from which Cor. No. 2 bears S. 66°53' W., 157.38 ft. dist.
510.00	<p>Cor. No. 2.</p> <p>Set an iron pin, 5/8 in. diam., 24 ins. long, 18 ins. in the ground, stone mound alongside, with aluminum cap mkd. X-ET18-2-4748; from which</p> <p>Cor. Nos. 3 and 5, Sur. No. 4329 Bobby and Eugene Mine lodes, respectively, identical with Cor. No. 4, Sur. No. 1987 Strip lode bears N. 24°09'40" W., 311.64 ft. dist.</p> <p>Cor. Nos. 1 and 5, Sur. No. 1987 Strip and John F. lodes, respectively, bears N. 38°51'50" W., 348.00 ft. dist.</p> <p>Thence S. 82°04'50" W.</p>
88.87	Intersect line 4-5, identical with line 3-4, Sur. No. 4329 Eugene Mine lode, and Sur. No. 1987 Strip lode, respectively, at a point from which Cor. Nos. 5 and 4, respectively, bears N. 7°35'30" W., 299.21 ft. dist.
181.39	Intersect line 1-2, identical with line 4-5, Sur. No. 1987 Strip lode and John F. lode, respectively, at a point from which Cor. Nos. 1 and 5, respectively, bears N. 7°27' W., 298.48 ft. dist.
420.	Gulch, 3 ft. wide, course N. 80° W. to this point and N. 60° W. below this point.
510.	Drill road, 8 ft. wide, bears N. 80° W. and S. 80° E.
749.26	Intersect line 2-3, Sur. No. 1819 Belle lode, at a point from which Cor. No. 3 bears N. 7°19' W., 310.02 ft. dist.
779.68	Intersect line 1-2, Sur. No. 1987 John F. lode, at a point from which Cor. No. 1 bears N. 7°25' W., 290.59 ft. dist.
1060.	Mine road, 12 ft. wide, bears N. 15° E., and S. 15° W.
1077.29	Intersect line 3-4, Sur. No. 2433 Prince of Wales lode, at a point from which Cor. No. 4 bears S. 18°57' E., 356.05 ft. dist.

FEET	
1325.00	<p>Cor. No. 3.</p> <p>Set an iron pin, 5/8 in. diam., 24 ins. long, 18 ins. in the ground, stone mound alongside, with aluminum cap mkd. X-ETL8-3-4748; from which</p> <p>Cor. No. 1, Sur. No. 1987 John F. lode, bears N. 54°08'20" E., 620.16 ft. dist.</p> <p>Thence N. 7°55'10" W.</p>
300.00	<p>Lode line; discovery point bears N. 82°04'50" E. 600 ft. dist.</p>
304.30	<p>Intersect line 3-4, Sur. No. 1819 Belle lode, at a point from which Cor. No. 3 bears N. 81°31' E., 579.03 ft. dist.</p>
310.00	<p>Intersect line 4-5, Sur. No. 2513 Ruby lode, at a point from which Cor. No. 5 bears S. 82°04'50" W., 140.20 ft. dist.</p>
396.48	<p>Intersect line 4-5, Sur. No. 4329 June No. 45 lode, at a point from which Cor. No. 4 bears N. 39°50' E., 186.24 ft. dist.</p>
510.00	<p>Cor. No. 4.</p> <p>Set an iron pin, 5/8 in. diam., 24 ins. long, 18 ins. in the ground, stone mound alongside, with aluminum cap mkd. X-ETL8-4-4748; from which</p> <p>Cor. No. 3, Sur. No. 1819 Belle lode, falling on line 4-5, Sur. No. 2513 Ruby lode, at a point from which Cor. No. 4 bears N. 82°04'50" E., 746.00 ft. dist., bears S. 78°51'50" E., 612.57 ft. dist.</p> <p>Cor. Nos. 4 and 5, Sur. No. 4329 June No. 45 lode and Sur. No. 2971 Columbia lode, respectively, bears N. 77°14' E., 138.36 ft. dist.</p> <p>Cor. No. 5, Sur. No. 2513 Ruby lode, bears S. 27°06'40" W., 244.25 ft. dist.</p> <p>Cor. No. 3, Sur. No. 2433 Prince of Wales lode, bears N. 4°52'20" W., 598.41 ft. dist.</p> <p>Thence N. 82°04'50" E.</p>
124.99	<p>Intersect line 4-5, Sur. No. 4329 June No. 45 lode, at a point from which Cor. No. 4 bears N. 39°50' E., 17.39 ft. dist.</p>
148.29	<p>Intersect line 3-4, Sur. No. 2433 Prince of Wales lode, at a point from which Cor. No. 3 bears N. 18°57' W., 608.81 ft. dist.</p>
375.	<p>Mine road, 12 ft. wide, bears N. 40° W. and S. 40° E.</p>
475.	<p>Gulch, 10 ft. wide, course N. 20° W.</p>

FEET	
1075.	Gulch, 3 ft. wide, course N. 65° W.
1101.10	Intersect line 2-3, Sur. No. 4744 NSB 6 lode, at a point from which Cor. No. 2 bears S. 23°07'E. 274.72 ft. dist.
1238.94	Intersect line 4-5, Sur. No. 4329 Bobby lode, at a point from which Cor. No. 4 bears N. 7°37'15" W., 396.80 ft. dist.
1305.81	Intersect line 3-4, Sur. No. 2513 Ruby lode, at a point from which Cor. No. 3 bears N. 13°24'W., 63.39 ft. dist.
1325.00	Cor. No. 1, and place of beginning.

Mineral Survey No. 4748

AREAS

	Acres
Total area, El Tiro 18 lode	15.513
Area in conflict with --	
Sur. No. 1819 Belle lode	4.071
Sur. No. 1987 John F. lode	4.050
Sur. No. 1987 John F. lode, exclusive of its conflict with Sur. No. 1819 Belle lode	3.845
Sur. No. 1987 Strip lode	0.632
Sur. No. 2433 Prince of Wales lode	2.318
Sur. No. 2433 Prince of Wales lode, exclusive of its conflict with Sur. No. 1819 Belle lode	0.791
Sur. No. 2513 Ruby lode	6.040
Sur. No. 2513 Ruby lode, exclusive of its conflict with Sur. No. 2433 Prince of Wales lode	5.270
Sur. No. 4329 June No. 45 lode	0.163
Sur. No. 4329 June No. 45 lode, exclusive of its conflict with Sur. No. 2433 Prince of Wales lode	0.000
Sur. No. 4329 June No. 45 lode, exclusive of its conflict with Sur. No. 2513 Ruby lode	0.000
Sur. No. 4329 June No. 45 lode, exclusive of its conflict with Sur. No. 2433 Prince of Wales lode and Sur. No. 2513 Ruby lode	0.000
Sur. No. 4329 Bobby lode	0.395
Sur. No. 4329 Bobby lode, exclusive of its conflict with Sur. No. 2513 Ruby lode	0.049
Sur. No. 4329 Eugene Mine lode	0.628
Sur. No. 4329 Eugene Mine lode, exclusive of its conflict with Sur. No. 2513 Ruby lode	0.066
Sur. No. 4744 NSB 6 lode	1.071
Sur. No. 4744 NSB 6 lode, exclusive of its conflict with Sur. No. 1987 Strip lode	0.995
Sur. No. 4744 NSB 6 lode, exclusive of its conflict with Sur. No. 2513 Ruby lode	0.212
Sur. No. 4744 NSB 6 lode, exclusive of its conflict with Sur. No. 4329 Bobby lode	0.676

FEET		Acres
	Sur. No. 4744 NSB 6 lode, exclusive of its conflict with Sur. No. 4329 Eugene Mine lode	0.998
	Sur. No. 4744 NSB 6 lode, exclusive of its conflict with Sur. No. 4329 Eugene Mine and Bobby lode and Sur. No. 2513 Ruby lode and Sur. No. 1987 Strip lode	0.021
LOCATION		
This survey is located in Section 33, Township 11 South, Range 8 East, Gila and Salt River Meridian, Arizona.		
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 El Tiro 18 lode, is on the lode line 725 ft. S. 82°04'50" W. from a point on line 1-2 from which Cor. No. 1 bears N. 7°55'10" W., 210.00 ft. dist. No value.	
No. 2	A diamond drill hole, 3 ins. diam. at the collar, 233 ft. in depth, the center of which bears S. 79°56'30" E., 684.7 ft. from Cor. No. 4. Value, \$1600.	
No. 3	A diamond drill hole, 3 ins. diam. at the collar, 205 ft. in depth, the center of which bears S. 69°27'30" E., 290.6 ft. from Cor. No. 4. Value, \$1400.	
OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA		
Sur. No. 1819 Belle lode: Cor. No. 3 falls on line 4-5, Sur. No. 2513 Ruby lode, at a point from which Cor. No. 4 bears N. 82°04'50" E., 746.00 ft. dist., and was reset from bearing-rock data, an iron pin, 5/8 in. diam., with aluminum cap mkd. X-B-3-1819, stone mound alongside. Cors. No. 2 and 4 were not found. Record data was used for lines 2-3 and 3-4. The tie from Cor. No. 3 to Cor. No. 1, Sur. No. 1987 John F. lode, was found to be S. 50°07' W., 36.70 ft.		
Sur. No. 1987 John F. lode: Cor. No. 1 falls in the fill from a mine road; the top 4 ins. of the 4x4 post marking this cor. is visible, but had been pushed over somewhat by the said fill. The true position for this corner was found from bearing-rock data. Cor. No. 6 is an "X" cut in bedrock. Lines 1-2 and 4-5 are shown as approved. Lines 5-6 and 6-1 were found to be S. 81°28' W., 299.54 ft. and S. 81°11' W., 298.70 ft., respectively, instead of S. 81°31' W., 300.00 ft., and S. 81°15' W., 299.10 ft. as approved. Cor. Nos. 2 and 4 were not found, so record-bearings were used.		

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FEET

Sur. No. 1987 Strip lode: Cor. No. 1, identical with Cor. No. 5, John F. lode, was reset near the center of the old stone mound, from bearing-rock data, an iron pin, 5/8 in. diam., 24 ins. long, 18 ins. in the ground, with aluminum cap mkd. X-JF-5-S-1-1987, and the monument rebuilt. Line 4-1 was found to be S. 81°37' W., 91.79 ft. instead of S. 81°31' W., 91.80 ft. as approved. Line 1-2 is shown as approved. Line 3-4 was found to be N. 7°35'30" W., instead of N. 7°27' W. as approved in Sur. No. 4329 Eugene Mine lode. Distance is as approved in the Sur. No. 4329 Eugene Mine lode. Cor. No. 4, identical with Cor. Nos. 3 and 5, Sur. No. 4329 Bobby and Eugene Mine lodes, respectively, is an iron pipe, 2 ins. diam. with lead cap. It was set loosely in the original stone mound. I firmed it up in accordance with bearing-rock data.

Sur. No. 2513 Ruby lode: Cor. Nos. 2, 3 and 4 were iron pipes, 2 ins. diam., firmly set in large well-built stone monuments. Cor. No. 5 has been covered by a mine waste-dump but the bearing of line 4-5 runs from Cor. No. 4 through Cor. No. 3, Sur. No. 1819 Belle lode, which two corners are intervisible on the ground. Line 4-5 was found to bear S. 82°04'50" W., instead of S. 81°57' W., as approved. Line 3-4 was found to be S. 13°24' E., 264.30 ft. instead of S. 13°41' E., 264.00 ft. as approved in Sur. Nos. 2513 and 4329, respectively.

Sur. No. 2433 Prince of Wales lode: Cor. No. 1 was reset from witness-corner data, and Cor. No. 4 was found, a large stone, firmly set and properly mkd. These cors. are intervisible in the field and thus determined the position of line 3-4. Line 3-4 was found to be S. 18°57' E., 1484.46 ft. instead of S. 19°01' E., 1484.60 ft. as approved. Cor. No. 3 is a 1-1/2 in. iron pipe with a lead cap properly marked and firmly set.

Sur. No. 4744 NSB 6 lode: Cor. No. 2 is an iron pin, 5/8 in. diam., with aluminum cap, firmly set and properly mkd., with stone mound alongside. Lines 1-2 and 2-3 are as shown on plat for Min. Sur. 4744, unapproved. Cor. Nos. 1 and 3 are both iron pins, 5/8 in. diam., with aluminum caps firmly set and properly mkd.

Sur. No. 4329 Bobby lode: Line 2-3 was found to be S. 66°50' W., 1496.32 ft. instead of S. 66°50' W., 1499.46 ft. as approved. Line 3-4 was found to be N. 7°37'15" W., 607.60 ft. instead of N. 7°27' W., 607.30 ft. as approved. Cor. No. 2 is a scattered stone mound with no post, the center of which was used as the corner. Cor. No. 3 is a 1-1/2 in. iron pipe with lead cap properly mkd. Pipe was loose and reset according to bearing rock data. Cor. No. 4 is a 1-1/2 in. iron pipe with lead cap properly mkd. and firmly set.

Eugene Mine lode: Line 4-5 was found to be N. 7°35'30" W., 607.31 ft. instead of N. 7°27' W., 607.30 ft. as approved, this line being, in part, common with line 3-4, Sur. No. 1987 John F. lode, this bearing was used for the N'y portion of said line 3-4. Line 5-1 was found to be

FEET		
	<p>N. 66°50' E., 1496.32 ft. instead of N.66°50' E. 1499.46 ft. as approved. Cor. No. 1 is a scattered stone mound with no post, the center of which was used as the corner. Cor. No. 4 is a lead cap firmly set and properly mkd. Cor. No. 5 is a 1-1/2 in. iron pipe with lead cap properly mkd. but loose. Pipe was reset by bearing rock data.</p> <p style="text-align: center;">FIELD ASSISTANTS</p> <p>Hoyd J. Patty Head Chainman Stephen L. Patty Chainman Bruce A. Schreiber Chainman</p>	

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FEET		
<p>100 90 80 70 60 50 40 30 20 10 0</p>	<p>...</p>	
<p>Head Chairman Chairman Chairman</p>	<p>FIELD ASSISTANTS Lloyd J. R. Kelly Stephen J. Kelly James A. Robinson</p>	

CERTIFICATE OF SURVEYOR

Name of Mineral Surveyor Robert Lenon	Date 10-12-73
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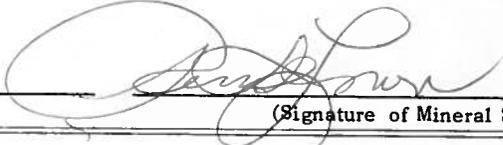
I HEREBY CERTIFY That in pursuance of an order received from the **Bureau of Land Management**, at **Phoenix, Arizona**, dated **June 7**, 19 **73**, I have carefully executed the survey of the claim of **American Smelting and Refining Company** known as the (lode, placer, or mill site) **El Tiro 18 lode** situated in **Section 33**, Township **11 S.**, Range **8 E. Gila & Salt River** Meridian, in the State of **Arizona**.

This survey, designated as number **4748**, 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.

Patagonia, Arizona

(Location)

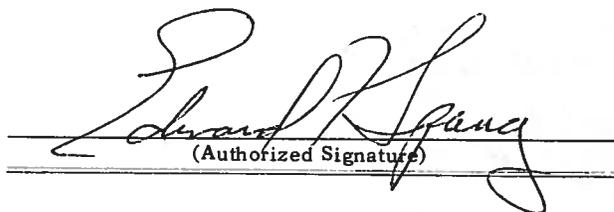


(Signature of Mineral Surveyor)

CERTIFICATE OF APPROVAL

Office Arizona State Office
Location Phoenix, Arizona
Date September 3, 1974

The foregoing field notes of mineral survey number **4748**, in **Section 33**, Range **8 E.**, **Gila and Salt River** Meridian, in the State of **Arizona**, surveyed unsurveyed Township **11 S.**, executed by **Robert Lenon**, Mineral Surveyor, under order dated **June 7**, 19 **73**, 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)

ASSOCIATE State Director

(Title)

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)

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.

10-12-73

Robert Lenoir

Bureau of Land
Phoenix, Arizona

Management
James F.

73
American Lumber and Refining Company
El Tiro, La Bode

Section 33
S. E. Old & Salt River

Arizona

1973

1973

1973

Patricia, Arizona

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
ARIZONA STATE OFFICE

9605 (942)
M.S. 4748

NOTICE OF CANCELLATION OF MINERAL SURVEY

The El Tiro 18 lode, Mineral Survey No. 4748 located in section 33, Township 11 South, Range 8 East, Gila and Salt River Meridian, Arizona, is hereby canceled.

This lode was relinquished by ASARCO Incorporated in a memo dated March 23, 1992.

This cancellation was necessitated to facilitate a proposed land exchange with ASARCO Incorporated and to clear the record.

The Mineral Survey Plat should be noted as follows:

"El Tiro 18 lode, M.S. 4748 was canceled March 23, 1992, by memo 9605 (942) M.S. 4748, which is now a part of the original field notes."

March 23, 1992
Date



Chief Cadastral Surveyor of Arizona

1917
1918

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WASHINGTON, D. C.

STATE OF MICHIGAN

It is hereby ordered that the following lands be reserved for the use of the State of Michigan, to-wit:

Section 1, Township 10 North, Range 10 West, 3rd P.M., 1836 Meridian.

The above lands are located in the Township of ... and are more particularly described as follows:

Section 1, Township 10 North, Range 10 West, 3rd P.M., 1836 Meridian.

It is further ordered that the above lands be reserved for the use of the State of Michigan, to-wit:

[Handwritten signature]

[Handwritten text]