

Form 3860-10  
(February 1987)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FIELD NOTES

Mineral Survey Number

4818

State

Arizona

Land District

Arizona

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

ASARCO Incorporated  
P. O. Box 5747  
Tucson, AZ 85703-0747

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

Helvetia Group

NAME OF CLAIM(S)

NAME OF LOCATION	DATE			BLM MINING CLAIM SERIAL NUMBER
	LOCATED AND AMENDED	RECORDED WITH COUNTY	RECORDED WITH BLM	
PERRY #9	5-30-63	6-11-63	3-15-79	A MC 36075
PERRY #10	5-31-63	6-11-63	3-15-79	36076
Last Chance No. 3	1-6-67	2-9-67	7-6-79	46794

LOCATION OF CLAIM(S)

Mining district Helvetia			County Pima	
Section 25 & 36	Township 18 South	Range 15 East	Meridian Gila & Salt River	Survey under order dated 12-19-80, 1-23-89
Survey commenced 12-20-80		Survey completed 9-1-81	Name of Mineral Surveyor Harvey W. Smith	

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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:

September 1, 1981, at Cor. No. 4 of the PERRY #9 lode, latitude  $31^{\circ}50'19.6''N.$ , longitude  $110^{\circ}45'51.3''W.$ , elevation 5,920 ft. above sea level and temperature  $78^{\circ}F.$ , 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 right from a reference point about 4,300 ft. southerly S.E. to the sun.

Mean time of observation,  
105th meridian standard  
time =  $8^h 41^m 47^s$  a.m.

Declination of sun at mean  
time of observation =  $8^{\circ}09'08.8''N.$

Mean observed vertical  
angle to sun's center =  $38^{\circ}21'12''$

Mean horizontal angle from  
reference point clockwise  
to sun's center =  $301^{\circ}28'00''$

True bearing to reference  
point =  $S.15^{\circ}18'30''E.$

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,

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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°30'E.

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## PERRY #9 LODE

Beginning at Cor. No. 1 of the PERRY #9 lode, identical with Cor. No. 1, M.S. No. 4793 CUSHING FRACTION lode and Cor. No. 1 of the PERRY #10 lode of this survey.

Found an iron post, 3/4 in. diam., 12 ins. above ground, in a concrete and rock base, with a brass cap firmly secured to the iron post, mkd. X C.F.1 U.S.M.S. 4793, to which I add marks P.9 1 P.10 1 U.S.M.S. 4818; from which

Cor. No. 1, M.S. No. 1297A Franklin lode, bears S.7°58'56"E., 511.92 ft. dist.

Cor. No. 2, M.S. No. 1297A Franklin lode, bears S.63°17'35"W., 353.88 ft. dist.

Cor. No. 3, M.S. No. 1297A Marion lode, bears S.25°54'28"W., 343.10 ft. dist.

The 1/4 sec. cor. of secs. 25 and 36, T.18 S., R.15 E., G. & S.R.M. bears S.12°27'E., 846.30 ft. dist., monumented with an iron post, 1 in. diam., 12 ins. above ground, firmly set, with a brass cap properly mkd.

A wood post, 4 x 4 ins. in size, 4 ft. above ground, sets adjacent to the iron post.

No local bearing objects or bearing trees available.

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	Thence N.89°52'45"W.
234.20	Intersect line 2-3, M.S. No. 1297A Franklin lode, at a point from which Cor. No. 2 bears S.27°11'W., 179.35 ft. dist.
300.00	Lode line; discovery point bears N.1°08'02"E., 200.00 ft. dist.
599.92	Cor. No. 2, identical with Cor. No. 4 of the PERRY #10 lode of this survey.  Set an iron post, 30 ins. long, 3/4 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 P.9 2 P.10 4 U.S.M.S. 4818; from which  A wood post, 4 x 4 ins. in size, 4 ft. above ground, sets adjacent to the iron post.  No local bearing objects or bearing trees available.
	Thence N.1°08'02"E.
1,484.08	Intersect line 1-2, M.S. No. 1297A Old Put Con. lode, at a point from which Cor. No. 1 bears S.15°E., 1,455.55 ft. dist.
1,499.87	Cor. No. 3.  Set an iron post, 30 ins. long, 3/4 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 P.9 3 U.S.M.S. 4818; from which  A wood post, 4 x 4 ins. in size, 4 ft. above ground, sets adjacent to the iron post.  No local bearing objects or bearing trees available.
	Thence S.89°52'45"E.
299.92	Lode line; discovery point bears S.1°08'02"W., 1,299.87 ft. dist.
599.92	Cor. No. 4.

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FEET	
	<p>Set an iron post, 30 ins. long, 3/4 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 P.9 4 U.S.M.S. 4818; from which</p> <p>Cor. No. 1, M.S. No. 1297A Old Put Con. lode, bears S.8°56'31"W., 1,437.95 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 S.1°08'02"W.</p>
1,200.81	Intersect line 4-1, M.S. No. 1297A Old Put Con. lode, in part common with line 2-3, Franklin lode of the same survey, at a point from which Cor. No. 1 bears S.42°15'W., 297.08 ft. dist.; thence S.27°11'W., 267.71 ft. to Cor. No. 2 of the Franklin lode.
1,499.87	Cor. No. 1, and place of beginning.
	<hr/> <p style="text-align: center;">PERRY #10 LODE</p> <p>Beginning at Cor. No. 1 of the PERRY #10 lode, identical with Cor. No. 1 of the PERRY #9 lode of this survey and Cor. No. 1, M.S. No. 4793 CUSHING FRACTION lode.</p> <p>Thence S.0°28'20"W.</p>
439.92	Intersect line 1-2, M.S. No. 1297A Franklin lode, in part common with line 3-4 Marion lode of the same survey, at a point from which Cor. No. 3, Marion lode of the same survey, bears N.48°05'32"W., 196.56 ft. dist.; thence N.48°01'W., 223.61 ft. to Cor. No. 2 of the Franklin lode.
677.71	Intersect line 4-1, M.S. No. 4793 LAST CHANCE No 1 lode, at a point from which Cor. No. 4 bears S.89°59'36"W., 212.94 ft. dist.
1,041.70	Intersect line 4-1, M.S. No. 1297A Marion lode, at a point from which Cor. No. 4, identical with Cor. No. 2, Cushing lode of the same survey, bears N.41°55'30"E., 448.45 ft. dist.

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1,499.93	<p>Cor. No. 2, identical with Cor. No. 4, M.S. No. 4793 CUSHING FRACTION lode.</p> <p>Found an iron post, 3/4 in. diam., 12 ins. above ground, in a concrete and rock base, with a brass cap firmly secured to the iron post, mkd. X C.F.4 U.S.M.S. 4793, to which I add marks P.10 2 U.S.M.S. 4818; from which</p> <p>Cor. No. 4, M.S. No. 4793 LAST CHANCE No 1 lode, bears N.14°04'40"W., 847.59 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.89°52'45"W.</p>
214.54	Intersect line 1-2 Last Chance No 3 lode of this survey.
300.00	Lode line; discovery point bears N.0°28'20"E., 1,199.93 ft. dist.
323.81	Intersect line 3-4, M.S. No. 4793 LAST CHANCE No. 1 lode, at a point from which Cor. No. 4 bears N.8°10'30"E., 829.83 ft. dist.
406.94	Intersect line 4-1, M.S. No. 1297A Marion lode, at a point from which Cor. No. 1 bears S.41°55'30"W., 427.33 ft. dist.
599.92	<p>Cor. No. 3.</p> <p>Set an iron post, 30 ins. long, 3/4 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 P.10 3 U.S.M.S. 4818; 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.0°28'20"E.</p>
93.63	Intersect line 4-1, Last Chance No 3 lode of this survey.

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687.22	Intersect line 2-3, M.S. No. 1297A Marion lode, at a point from which Cor. No. 3 bears N.42°15'E., 679.25 ft. dist.
1,499.93	Cor. No. 4, identical with Cor. No. 2 of the PERRY #9 lode of this survey.  Thence S.89°52'45"E.
299.92	Lode line; discovery point bears S.0°28'20"W., 300.00 ft. dist.
365.72	Intersect line 2-3, M.S. No. 1297A Franklin lode, at a point from which Cor. No. 2 bears S.27°11'W., 179.35 ft. dist.
599.92	Cor. No. 1, and place of beginning.
<b>LAST CHANCE NO 3 LODE</b>	
At Cor. No. 1 of the Last Chance No 3 lode.	
Set an iron post, 30 ins. long, 3/4 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 L.C.3 1 U.S.M.S. 4818; from which	
The 1/4 sec. cor. of secs. 25 and 36, bears N.34°55'41"E., 713.72 ft. dist., hereinbefore described.	
Cor. No. 3, M.S. No. 4793 LAST CHANCE No 1 lode, identical with Cor. No. 4, LAST CHANCE No 2 lode of the same survey, bears S.15°25'15"W., 762.10 ft. dist.	
A wood post, 4 x 4 ins. in size, 4 ft. above ground, sets adjacent to the iron post.	
No local bearing objects or bearing trees available.	
Thence S.0°28'09"W.	
87.88	Intersect line 2-3 PERRY #10 lode of this survey.
325.	Center of unimproved dirt road, 16. ft. wide, bears N.76°E. and S.46°W.

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734.63	Intersect line 2-3, M.S. No. 4793 LAST CHANCE No 1 lode, common with line 4-1 LAST CHANCE No 2 lode of the same survey, at a point from which Cor. No. 3, identical with Cor. No. 4 of the LAST CHANCE No 2 lode, bears S.89°59'36"W., 196.63 ft. dist.
820.	Center of unimproved dirt road, 16. ft. wide, bears East and West.
1,447.27	Intersect line 1-2, M.S. No. 2444 Excelsior lode, at a point from which Cor. No. 2 bears N.81°45'W., 489.00 ft. dist.
1,495.03	<p>Cor. No. 2.</p> <p>Set an iron post, 30 ins. long, 3/4 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 L.C.3 2 U.S.M.S. 4818; 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> <p style="text-align: center;">Thence N.89°01'26"W.</p>
222.97	Intersect line 3-4, M.S. No. 4793 LAST CHANCE No 2 lode, at a point from which Cor. No. 4, identical with Cor. No. 3 of the LAST CHANCE No 1 lode of the same survey, bears N.2°27'45"E., 757.22 ft. dist.
292.85	Lode line; discovery point bears N.0°28'09"E., 1,195.03 ft. dist.
312.	Center of unimproved dirt road, 16. ft. wide, bears N.24°E. and S.24°W.
499.36	Intersect line 2-3, M.S. No. 2444 Excelsior lode, at a point from which Cor. No. 2 bears N.8°11'E., 110.55 ft. dist.
585.70	<p>Cor. No. 3.</p> <p>Set an iron post, 30 ins. long, 3/4 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 L.C.3 3 U.S.M.S. 4818; from which</p>



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FEET	
	<p>Cor. No. 2, M.S. No. 2444 Excelsior lode, bears N.43°23'37"E., 148.56 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.0°28'09"E.</p>
1,179.15	Intersect line 1-2, M.S. No. 1297A Marion lode, at a point from which Cor. No. 1 bears S.47°45'E., 148.01 ft. dist.
1,495.03	<p>Cor. No. 4.</p> <p>Set an iron post, 30 ins. long, 3/4 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 L.C.3 4 U.S.M.S. 4818; from which</p> <p>Cor. No. 1, M.S. No. 1297A Marion lode, bears S.14°26'27"E., 428.94 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 S.89°01'26"E.</p>
200.32	Intersect line 3-4 PERRY #10 lode of this survey.
292.85	Lode line; discovery point bears S.0°28'09"W., 300.00 ft. dist.
472.84	Intersect line 4-1, M.S. No. 1297A Marion lode, at a point from which Cor. No. 1 bears S.41°55'30"W., 547.47 ft. dist.
488.49	Intersect line 3-4, M.S. No. 4793 LAST CHANCE No 1 lode, at a point from which Cor. No. 3, identical with Cor. No. 4 of the LAST CHANCE No 2 lode of the same survey, bears S.8°10'30"W., 743.83 ft. dist.
585.70	Cor. No. 1, and place of beginning.

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AREAS	Acres
Total area, PERRY #9 lode -----	20.653
Area in conflict with:	
M.S. No. 1297A Old Put Con. lode -----	12.551
M.S. No. 1297A Franklin lode -----	0.882
 Total area, PERRY #10 lode -----	 20.657
Area in conflict with:	
M.S. No. 1297A Franklin lode -----	2.020
M.S. No. 1297A Marion lode -----	11.424
M.S. No. 4793 LAST CHANCE No 1 lode -----	5.064
M.S. No. 4793 LAST CHANCE No 1 lode, exclusive of its conflict with M.S. No. 1297A Marion lode -----	2.035
 Total area, Last Chance No 3 lode ---	 20.101
Area in conflict with:	
M.S. No. 1297A Marion lode -----	2.644
M.S. No. 2444 Excelsior lode -----	0.894
M.S. No. 4793 LAST CHANCE No 1 lode -----	2.482
M.S. No. 4793 LAST CHANCE No 2 lode -----	3.654
M.S. No. 4793 LAST CHANCE No 2 lode, exclusive of its conflict with M.S. No. 2444, Excelsior lode -----	3.338
PERRY #10 lode of this survey -----	0.803
PERRY #10 lode of this survey, exclusive of its conflict with:	
(1) M.S. No. 1297A Marion lode -----	0.312
(2) M.S. No. 4793 LAST CHANCE No. 1 lode -----	0.593
(3) M.S. Nos. 1297A and 4793 Marion and LAST CHANCE No 1 lodes -----	0.102

## LOCATION

This survey is located in the SW 1/4 sec. 25 and NW 1/4 sec. 36, T.18 S., R.15 E., G.& S.R.M.

The survey of the PERRY #s 9 & 10 and Last Chance No 3 lodes is identical with the locations as marked on the ground.

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## 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 PERRY #9 lode is on the lode line, 200.ft. from a point on line 1-2, 300.ft. from Cor. No. 1, a post and notice.  
Value, None

No. 1 The discovery point of the PERRY #10 lode is on the lode line, 300. ft. from a point on line 4-1, 299.92 ft. from Cor. No. 4, a post and notice.  
Value, None

No. 1 The discovery point of the Last Chance No 3 lode is on the lode line, 300.ft. from a point on line 4-1, 292.85 ft. from Cor. No. 4, a post and notice.  
Value, None

An interest in a common improvement described as follows:

A drilling program to delineate a potential copper ore body on these claims. As the ore is rather deep and the terrain rugged, drilling is the only logical way to explore the ore horizon.

Following is a list of drill holes describing each and giving its location within a particular lode and its value:

A drill hole, No. A884, bears S.33°53'W., 451. ft. from Cor. No. 1 PERRY #10 lode; EX in size, 155. ft. deep.  
Value, \$ 2,157.19

A drill hole, No. A890, bears S.21°45'W., 600. ft. from Cor. No. 1 Last Chance No 3 lode; EX in size, 267. ft. deep.  
Value, \$ 2,121.00

Total value of drill holes \$ 4,278.19

Value apportioned to each of the three lodes of this survey (1/3) 1,426.06

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## OTHER IMPROVEMENTS

Access roads traverse the common group of 50 claims M.S. No. 4815 and M.S. Nos. 4816, 4817, 4819, 4820 and 4821 (all unapproved) and provide access to the three lodes of this survey.

Claimant herein

OTHER CORNER DESCRIPTIONS  
and SUPPLEMENTAL DATA

M.S. No. 1297A Franklin lode: Cors. Nos. 1 and 2 are monumented with wood posts, 4 x 4 ins., 2 ft. above ground, slightly loose in the stones, or ground. The inscribed data is partially identifiable. Line 1-2, in part common with line 3-4, M.S. No. 1297A, Marion lode, was found to be N.48°05'32"W., 296.95 ft. to Cor. No. 3 of the Marion lode of the same survey; thence N.48°01'W., 223.61 ft. instead of N.47°45'W., 600.00 ft. as approved. Line 2-3 was found to be N.27°11'E., 267.71 ft. to Cor. No. 1 of the Old Put Con. lode of the same survey; thence N.42°15'E., to Cor. No. 3, instead of N.42°15'E., 1,500.00 ft. as approved.

M.S. No. 1297A Marion lode: Cors. Nos. 1, 3 and 4 are monumented with wood posts, 4 x 4 ins., 2 ft. above ground, slightly loose in the stones or ground. The inscribed data is partially identifiable. Lines 1-2 and 2-3 are shown as approved. Line 3-4, that part common with line 1-2, M.S. No. 1297A, Franklin lode, described above. Line 4-1 was found to be S.41°55'30"W., 1,490.49 ft. instead of S.42°15'W., 1,500.00 ft. as approved.

M.S. No. 1297A Old Put Con. lode: Cor. No. 1 is monumented with a wood post, 4 x 4 ins., 2 ft. above ground, slightly loose in the stones or ground. The inscribed data is partially identifiable. Lines 1-2 and 4-1 are shown as approved.

M.S. No. 2444 Excelsior lode: Cor. No. 1 is monumented with a stone, 10 x 14 ins., 4 ins. above ground, firmly set, properly mkd. Cor. No. 2 is a mound of stones, the center of which I accept as the true point. Line 1-2 was found to be N.81°45'W., 594.28 ft. instead of N.82°0'W., 595.00 ft. as approved. Line 2-3 is shown as approved.

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M.S. No. 4793 LAST CHANCE No 1 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. Lines 2-3, common with line 4-1, LAST CHANCE No 2 lode of the same survey, 3-4 and 4-1 are correct as approved.

M.S. No. 4793 LAST CHANCE No 2 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 N.2°27'45"E. instead of N.2°28'14"E., as approved. Line 4-1, common with line 2-3, LAST CHANCE No 1 lode of the same survey is correct as approved.

## MEMORANDUM

None

## FIELD ASSISTANTS

Name	Capacity
Kent Miller	Assistant Instrumentman
Eric O'Neil	Rodman-Chainman

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

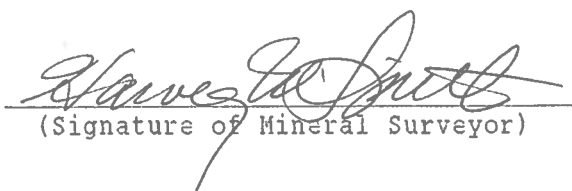
Name of Mineral Surveyor	Date
Harvey W. Smith	July 9, 1990

I HEREBY CERTIFY That in pursuance of an order received from the Arizona State Office, Bureau of Land Management, at Phoenix, Arizona, dated December 19, 1980 and amended January 23, 1989, I have carefully executed the survey of the claim of ASARCO Incorporated, known as the PERRY #9, PERRY #10 and Last Chance No. 3 lodes, situated in surveyed sections 25 and 36, Township 18 South, Range 15 East, Gila and Salt River Meridian, in the State of Arizona.

This survey, designated as number 4818, 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 PERRY #9, PERRY #10 and Last Chance No. 3 lodes 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)

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  
November 6, 1990

The foregoing field notes of mineral survey number 4818, in surveyed sections 25, and 36, Township 18 South, Range 15 East, Gila and Salt River Meridian, in the State of Arizona, executed by Harvey W. Smith, Mineral Surveyor, under order dated December 19, 1980 and amended January 23, 1989, 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 4818 is a true copy of the original field notes.~~

~~\_\_\_\_\_  
(Authorized Signature)~~

~~Chief Cadastral Surveyor of Arizona  
(Title)~~