

Form 3860-10  
(February 1987)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Mineral Survey Number

4820

State

Arizona

Land District

Arizona

FIELD NOTES

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	
SANTA RITA #1	8-29-63	9-3-63	7-6-69	A MC 46740
SANTA RITA #2	8-29-63	9-3-63	7-6-69	46741
SANTA RITA #3	8-29-63	9-3-63	7-6-69	46742
SANTA RITA #7	8-29-63	9-3-63	7-6-79	46746
Travis #1	8-24-62	8-27-62		
Amended	1-24-68	4-10-68		2199
2nd Amended	12-30-76	1-6-77	3-25-77	
TRAVIS #4	8-24-62	8-27-62		
Amended	10-18-63	10-21-63	7-6-79	46807
ROSEMONT #15	1-16-56	1-19-56		
Amended	3-26-63	4-1-63	7-6-79	46786
SANTA RITA #17	8-29-63	9-3-63	7-6-79	46756
SANTA RITA #18	8-29-63	9-3-63	7-6-79	46757
SANTA RITA #19	8-29-63	9-3-63	7-6-79	46758
SANTA RITA #20	8-29-63	9-3-63	7-6-79	46759
SANTA RITA #22	8-29-63	9-3-63	7-6-79	46761
SANTA RITA WEDGE	8-30-78	11-13-78	11-20-78	28871

LOCATION OF CLAIM(S)

Mining district <b>Helvetia</b>			County <b>Pima</b>	
Section <b>30, 31</b>	Township <b>18 South</b>	Range <b>16 East</b>	Meridian <b>Gila &amp; Salt River</b>	Survey under order dated <b>12/19/80, 1/23/89</b>
Survey commenced <b>1/1/81</b>		Survey completed <b>10/1/81</b>	Name of Mineral Surveyor <b>Harvey W. Smith</b>	

## Mineral Survey No. 4820

FEET

This survey was made with a Swiss Kern theololite, 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:

August 27, 1981, at Cor. No. 3 of the SANTA RITA #22 lode, latitude  $31^{\circ}49'29.6''N$ . and longitude  $110^{\circ}45'08.5''W$ ., elevation 5,160 ft. above sea level, and temperature  $87^{\circ}F$ ., 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 1,000 ft. northwesterly S.E. to the sun.

Mean time of observation,  
105th meridian standard  
time =  $8^h05^m04^s$  a.m.

Declination of sun at mean  
time of observation =  $9^{\circ}57'00''N$ .

Mean observed vertical  
angle to sun's center =  $31^{\circ}22'32''$

Mean horizontal angle from  
reference point clockwise  
to sun's center =  $172^{\circ}02'52''S.E.$

True bearing to reference  
point =  $N.73^{\circ}59'50''W$ .

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, a K & E Autoranger

## Mineral Survey No. 4820

FEET	
	<p>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.</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°30'E.</p>
	<hr/> <p style="text-align: center;">Mineral Survey No. 4820</p> <hr/>
	<p style="text-align: center;">SANTA RITA #1 LODE</p> <p>Beginning at Cor. No. 1 of the SANTA RITA #1 lode, identical with Cor. No. 1 of the SANTA RITA #2 lode of this survey, Cor. No. 1, M.S. No. 4718 SANTA RITA #5 lode and Cor. No. 1 of the SANTA RITA #4 lode of the same survey.</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 S.R.4 1 S.R.5 1 U.S.M.S. 4718; to which I add marks S.R.1 1 S.R.2 1 U.S.M.S. 4820; from which</p> <p style="padding-left: 40px;">The 1/4 sec. cor. of secs. 30 and 31, T.18 S., R.16 E., G.&amp; S.R.M., bears S.29°48'41"E., 2,735.24 ft. dist., monumented with an iron post, 1 in. diam., 12 ins. above ground, firmly set, with a brass cap properly mkd.</p> <p style="padding-left: 40px;">Cor. No. 1, M.S. No. 1297A La Fayette lode, bears N.80°44'06"E., 606.34 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.58°45'50"W.</p>
300.00	Lode line; discovery point bears N.43°56'21"E., 50.00 ft. dist.

## Mineral Survey No. 4820

FEET	
600.00	<p>Cor. No. 2, identical with Cor. No. 4, M.S. No. 4718 SANTA RITA #4 lode, Cor. No. 3, M.S. No. 1297A Dan Webster lode and Cor. No. 1 of the Patrick Henry lode of the same survey.</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 S.R.4 4 U.S.M.S. 4718; D.W.3 P.H.1 U.S.M.S. 1297A, to which I add marks S.R.1 2 U.S.M.S. 4820; 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.43°56'21"E.</p>
1,260.83	<p>Intersect line 1-2, M.S. No. 1297A La Fayette lode, at a point from which Cor. No. 2 bears N.11°55'21"W., 353.59 ft. dist.</p>
1,498.83	<p>Cor. No. 3, on line 4-1 M.S. No. 1297A Patrick Henry lode.</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 S.R.1 3 U.S.M.S. 4820; from which</p> <p style="padding-left: 40px;">Cor. No. 2, M.S. No. 1297A La Fayette lode, identical with Cor. No. 1 of the R.G. Ingersoll lode of the same survey, bears N.53°48'19"W., 295.36 ft. dist.</p> <p style="padding-left: 40px;">Cor. No. 4, M.S. No. 1297A Patrick Henry lode, bears N.43°56'21"E., 1.67 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 S.58°45'50"E.</p>
300.00	<p>Lode line; discovery point bears S.43°56'21"W., 1,448.83 ft. dist.</p>

## Mineral Survey No. 4820

FEET	
509.75	Intersect line 3-4, M.S. No. 1297A La Fayette lode, at a point from which Cor. No. 4 bears S.12°30'E., 1,084.76 ft. dist.
600.00	<p>Cor. No. 4, identical with Cor. No. 2 of the SANTA RITA #2 lode of this survey.</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 S.R.1 4 S.R.2 2 U.S.M.S. 4820; 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 S.43°56'21"W.</p>
78.28	Intersect line 3-4, M.S. No. 1297A La Fayette lode, at a point from which Cor. No. 4 bears S.12°30'E., 979.15 ft. dist.
767.76	Intersect line 1-2, M.S. No. 1297A La Fayette lode, at a point from which Cor. No. 1 bears S.11°55'21"E., 438.56 ft. dist.
1,498.83	Cor. No. 1, and place of beginning.
<hr/> <p>SANTA RITA #2 LODE</p> <p>Beginning at Cor. No. 1 of the SANTA RITA #2 lode, identical with Cor. No. 1, M.S. No. 4718 SANTA RITA #5 lode, Cor. No. 1 of the SANTA RITA #4 lode of the same survey and Cor. No. 1 of the SANTA RITA #1 lode of this survey.</p> <p style="text-align: center;">Thence N.43°56'21"E.</p>	
731.07	Intersect line 1-2, M.S. No. 1297A La Fayette lode, at a point from which Cor. No. 1 bears S.11°55'21"E., 438.56 ft. dist.
1,420.55	Intersect line 3-4, M.S. No. 1297A La Fayette lode at a point from which Cor. No. 4 bears S.12°30'E., 979.15 ft. dist.
1,498.83	Cor. No. 2, identical with Cor. No. 4 of the SANTA RITA #1 lode of this survey.

## Mineral Survey No. 4820

FEET	
	Thence S.58°45'50"E.
300.00	Lode line; discovery point bears S.43°56'21"W., 1,453.83 ft. dist.
600.80	<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 S.R.2 3 U.S.M.S. 4820; 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>
	Thence S.43°56'21"W.
598.99	Intersect line 3-4, M.S. No. 1297A La Fayette lode, at a point from which Cor. No. 4 bears S.12°30'E., 276.04 ft. dist.
737.89	Intersect line 1-2 Travis #1 lode of this survey.
889.25	Cor. No. 1 of the SANTA RITA #3 lode of this survey.
951.59	Intersect line 4-1, M.S. No. 1297A La Fayette lode, at a point from which Cor. No. 1 bears N.87°04'W., 295.38 ft. dist.
1,364.62	Intersect line 4-1 Travis #1 lode of this survey.
1,498.83	<p>Cor. No. 4, identical with Cor. No. 4 of the SANTA RITA #3 lode of this survey, Cor. No. 4, M.S. No. 4718 SANTA RITA #6 lode and Cor. No. 2 of the SANTA RITA #5 lode of the same survey.</p> <p>Found an iron post, 3/4 in. diam., 12 ins. above the ground, in a concrete and rock base, with a brass cap firmly secured to the iron post, mkd. X S.R.5 2 S.R.6 4 U.S.M.S. 4718, to which I add marks S.R.2 4 S.R.3 4 U.S.M.S. 4820; 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>
	Thence N.58°45'50"W.

## Mineral Survey No. 4820

FEET	
300.80	Lode line; discovery point bears N.43°56'21"E., 45.00 ft. dist.
600.80	Cor. No. 1, and place of beginning.
<hr/> SANTA RITA #3 LODE	
At Cor. No. 1 of the SANTA RITA #3 lode, on line 3-4 SANTA RITA #2 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 S.R.3 1 U.S.M.S. 4820; from which	
<p style="padding-left: 40px;">The 1/4 sec. cor. of secs. 30 and 31, bears S.9°36'14"E., 2,536.22 ft. dist., hereinbefore described.</p>	
<p style="padding-left: 40px;">Cor. No. 4, M.S. No. 1297A La Fayette lode, bears S.76°57'36"E., 268.07 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>	
No local bearing objects or bearing trees available.	
Thence S.58°48'E.	
99.33	Intersect line 4-1, M.S. No. 1297A La Fayette lode, at a point from which Cor. No. 4 bears S.87°04'E., 176.42 ft. dist.
1,116.36	Intersect line 2-3 Travis #1 lode of this survey.
1,499.46	Cor. No. 2.
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 S.R.3 2 U.S.M.S. 4820; from which	
<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>	
No local bearing objects or bearing trees available.	
Thence S.43°56'21"W.	

## Mineral Survey No. 4820

FEET	
304.79	Lode line; discovery point bears N.58°48'W., 600.00 ft. dist.
609.58	<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 S.R.3 3 U.S.M.S. 4820; 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="padding-left: 40px;">Thence N.58°48'W.</p>
299.66	Cor. No. 2 of the SANTA RITA #7 lode of this survey.
899.56	Cor. No. 1 of the SANTA RITA #7 lode of this survey, identical with Cor. No. 1, M.S. No. 4718 SANTA RITA #6 lode.
1,499.46	<p>Cor. No. 4, identical with Cor. No. 4, M.S. No. 4718 SANTA RITA #6 lode, Cor. No. 2 of the SANTA RITA #5 lode of the same survey and Cor. No. 4 of the SANTA RITA #2 lode of this survey.</p> <p style="padding-left: 40px;">Thence N.43°56'21"E.</p>
134.21	Intersect line 4-1 Travis #1 lode of this survey.
304.79	Lode line; discovery point bears S.58°48'E., 899.46 ft. dist.
547.24	Intersect line 4-1, M.S. No. 1297A La Fayette lode, at a point from which Cor. No. 1 bears N.87°04'W., 295.38 ft. dist.
609.58	Cor. No. 1, and place of beginning.
<p>SANTA RITA #7 LODE</p> <p>Beginning at Cor. No. 1 of the SANTA RITA #7 lode, identical with Cor. No. 1, M.S. No. 4718 SANTA RITA #6 lode and on line 3-4 SANTA RITA #3 lode of this survey.</p>	



## Mineral Survey No. 4820

FEET	
	<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 S.R.6 1 U.S.M.S. 4718; to which I add marks S.R.7 1 U.S.M.S. 4820; from which</p> <p>The 1/4 sec. cor. of secs. 30 and 31, bears S.10°46'03"E., 1,782.34 ft. dist., hereinbefore described.</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.58°48'E.</p>
300.00	Lode line; discovery point bears S.27°16'03"W., 20.00 ft. dist.
599.90	<p>Cor. No. 2, on line 3-4 SANTA RITA #3 lode of this survey.</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 S.R.7 2 U.S.M.S. 4820; 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 S.27°16'03"W.</p>
550.93	Intersect line 2-3 ROSEMONT #15 lode of this survey.
723.	Center of unimproved dirt road, 16 ft. wide, bears N.88°W. and S.88°E.
955.08	Intersect line 1-2 ROSEMONT #15 lode, common with line 4-1 TRAVIS #4 lode, both of this survey.
1,382.33	Cor. No. 3, identical with Cor. No. 1, M.S. No. 4718 SANTA RITA #11 lode.

## Mineral Survey No. 4820

FEET	
	<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 S.R.11 1 U.S.M.S. 4718; to which I add marks S.R.7 3 U.S.M.S. 4820; from which</p>
	<p>The 1/4 sec. cor. of secs. 30 and 31, bears S.65°00'31"E., 499.13 ft. dist., hereinbefore described.</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.58°48'W.</p>
299.90	<p>Lode line; discovery point bears N.27°16'03"E., 1,362.33 ft. dist.</p>
479.54	<p>Intersect line 2-3 TRAVIS #4 lode of this survey.</p>
599.90	<p>Cor. No. 4, identical with Cor. No. 4, M.S. No. 4718 SANTA RITA #11 lode, Cor. No. 2 of the SANTA RITA #10 lode and Cor. No. 2 of the SANTA RITA #6 lode, all of the same survey.</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 S.R.6 2 S.R.10 2 S.R.11 4 U.S.M.S. 4718; to which I add marks S.R.7 4 U.S.M.S. 4820; 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.27°16'03"E.</p>
150.	<p>Center of unimproved dirt road, 16 ft. wide, bears N.80°E. and S.55°W.</p>
259.52	<p>Intersect line 2-3 TRAVIS #4 lode of this survey.</p>
542.51	<p>Intersect line 3-4 TRAVIS #4 lode of this survey.</p>
1,382.33	<p>Cor. No. 1, and place of beginning.</p>

## Mineral Survey No. 4820

FEET	
	TRAVIS #1 LODE
	At Cor. No. 1 of the Travis #1 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 T.1 1 U.S.M.S. 4820; from which
	The 1/4 sec. cor. of secs. 30 and 31, bears S.15°28'44"E., 2,759.07 ft. dist., hereinbefore described.
	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.83°16'24"E.
421.15	Intersect line 3-4 SANTA RITA #2 lode of this survey.
543.73	Intersect line 3-4, M.S. No. 1297A La Fayette lode, at a point from which Cor. No. 4 bears S.12°30'E., 158.89 ft. dist.
1,296.46	Cor. No. 2.
	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 T.1 2 U.S.M.S. 4820; 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.1°54'11"W.
289.32	Lode line; discovery point bears N.83°16'24"W., 540.00 ft. dist.
585.09	Intersect line 1-2 SANTA RITA #3 lode of this survey.
589.32	Cor. No. 3.

## Mineral Survey No. 4820

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 T.1 3 U.S.M.S. 4820; 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="padding-left: 40px;">Thence N.83°16'24"W.</p>
1,296.46	<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 T.1 4 U.S.M.S. 4820; 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="padding-left: 40px;">Thence N.1°54'11"E.</p>
88.42	Intersect line 3-4 SANTA RITA #2 lode of this survey.
300.00	Lode line; discovery point bears S.83°16'24"E., 756.46 ft. dist.
400.16	Intersect line 4-1, M.S. No. 1297A La Fayette lode, at a point from which Cor. No. 4 bears S.87°04'E., 581.42 ft. dist.
589.32	Cor. No. 1, and place of beginning.
<hr/> <p>TRAVIS #4 LODE</p>	
<p>At Cor. No. 1 of the TRAVIS #4 lode, identical with Cor. No. 1 of the ROSEMONT #15 lode of this survey.</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 T.4 1 U.S.M.S. 4820; from which</p>	

## Mineral Survey No. 4820

FEET	
	<p>The 1/4 sec. cor. of secs. 30 and 31, bears N.31°18'38"E., 611.98 ft. dist., hereinbefore described.</p>
	<p>Cor. No. 1, M.S. No. 4718 SANTA RITA #11 lode, identical with Cor. No. 3 of the SANTA RITA #7 lode of this survey, bears N.10°22'39"W., 745.93 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.85°11'54"W.</p>
298.15	<p>Lode line; discovery point bears N.3°06'52"E., 300.00 ft. dist.</p>
598.15	<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 T.4 2 U.S.M.S. 4820; 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.3°06'52"E.</p>
47.46	<p>Intersect line 3-4 SANTA RITA #18 lode of this survey, in part common with line 1-2, M.S. No. 4718 SANTA RITA #11 lode.</p>
934.05	<p>Intersect line 4-1, M.S. No. 4718 SANTA RITA #11 lode, common with line 3-4 SANTA RITA #7 lode of this survey, at a point from which Cor. No. 1, identical with Cor. No. 3 of the SANTA RITA #7 lode of this survey, bears S.58°48'E., 479.54 ft. dist.</p>
1,140.	<p>Center of unimproved dirt road, 16 ft. wide, bears S.89°W. and N.89°E.</p>

## Mineral Survey No. 4820

FEET	
1,227.52	Intersect line 4-1 SANTA RITA #7 lode of this survey, common with line 1-2, M. S. No. 4718 SANTA RITA #6 lode at a point from which Cor. No. 4, identical with Cor. No. 4, M.S. No. 4718 SANTA RITA #11 lode, Cor. No. 2 of the SANTA RITA #10 lode and Cor. No. 2 of the SANTA RITA #6 lode, all of the same survey, bears S.27°16'03"W., 259.52 ft. dist.
1,489.14	<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 T.4 3 U.S.M.S. 4820; 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 S.85°11'54"E.</p>
115.84	Intersect line 1-2, M.S. No. 4718 SANTA RITA #6 lode, common with line 4-1 SANTA RITA #7 lode of this survey, at a point from which Cor. No. 2, identical with Cor. No. 4 of the SANTA RITA #7 lode of this survey, Cor. No. 4, M.S. No. 4718 SANTA RITA #11 lode and Cor. No. 2 of the SANTA RITA #10 lode, both of the same survey, bears S.27°16'03"W., 542.51 ft. dist.
300.00	Lode line; discovery point bears S.3°06'52"W., 1,189.14 ft. dist.
598.15	<p>Cor. No. 4, identical with Cor. No. 2 of the ROSEMONT #15 lode of this survey.</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 T.4 4 R.15 2 U.S.M.S. 4820; 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 S.3°06'52"W.</p>

## Mineral Survey No. 4820

FEET	
170.	Center of unimproved dirt road, 16 ft. wide, bears East and West.
373.39	Intersect line 2-3 SANTA RITA #7 lode of this survey.
1,376.09	Intersect line 4-1 SANTA RITA #18 lode of this survey.
1,489.14	Cor. No. 1, and place of beginning.
ROSEMONT #15 LODE	
Beginning at Cor. No. 1 of the ROSEMONT #15 lode, identical with Cor. No. 1 of the TRAVIS #4 lode of this survey.	
Thence N.3°06'52"E.	
113.05	Intersect line 4-1 SANTA RITA #18 lode of this survey.
1,115.75	Intersect line 2-3 SANTA RITA #7 lode of this survey.
1,319.	Center of unimproved dirt road, 16 ft. wide, bears East and West.
1,489.14	Cor. No. 2, identical with Cor. No. 4 of the TRAVIS #4 lode of this survey.
Thence S.85°17'07"E.	
165.43	Intersect line 2-3 SANTA RITA #7 lode of this survey.
300.00	Lode line; discovery point bears S.3°06'52"W., 25.00 ft. dist.
599.48	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 R.15 3 U.S.M.S. 4820; 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.3°06'52"W.	

## Mineral Survey No. 4820

FEET	
150.	Center of unimproved dirt road, 16 ft. wide, bears N.73°W. and S.73°E.
1,489.14	<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 R.15 4 U.S.M.S. 4820; 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="padding-left: 40px;">Thence N.85°17'07"W.</p>
174.89	Intersect line 1-2 SANTA RITA #19 lode of this survey.
299.48	Lode line; discovery point bears N.3°06'52"E., 1,464.14 ft. dist.
555.38	Intersect line 4-1 SANTA RITA #19 lode, common with line 1-2 SANTA RITA #18 lode, both of this survey.
599.48	Cor. No. 1, and place of beginning.
SANTA RITA #17 LODE	
<p>Beginning at Cor. No. 1 of the SANTA RITA #17 lode, identical with Cor. No. 1, M.S. No. 4718 SANTA RITA #16 lode, Cor. No. 3 of the SANTA RITA #10 lode and Cor. No. 3 of the SANTA RITA #11 lode, all of the same survey.</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 S.R.10 3 S.R.11 3 S.R.16 1 U.S.M.S. 4718, to which I add marks S.R.17 1 U.S.M.S. 4820; from which</p>	
<p style="padding-left: 40px;">The 1/4 sec. cor. of secs. 30 and 31, bears N.69°21'38"E., 1,967.54 ft. dist., hereinbefore described.</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>	



## Mineral Survey No. 4820

FEET	
	<p>No local bearing objects or bearing trees available.</p> <p style="text-align: center;">Thence S.58°48'E.</p>
300.00	<p>Lode line; discovery point bears S.9°02'W., 959.00 ft. dist.</p>
599.90	<p>Cor. No. 2, identical with Cor. No. 2, M.S. No. 4718 SANTA RITA #11 lode and Cor. No. 4 of the SANTA RITA WEDGE lode and on line 3-4 SANTA RITA #18 lode, both of this survey.</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 S.R.11 2 U.S.M.S. 4718, to which I add marks S.R.17 2 S.R.W.4 U.S.M.S. 4820; from which</p> <p style="text-align: center;">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 S.9°02'W.</p>
492.	<p>Center of unimproved dirt road, 16 ft. wide, bears N.53°E. and S.53°W.</p>
498.28	<p>Intersect line 2-3 SANTA RITA #18 lode of this survey.</p>
557.00	<p>Cor. No. 3 of the SANTA RITA WEDGE lode, identical with Cor. No. 3 of the SANTA RITA #20 lode, both of this survey.</p>
1,156.66	<p>Cor. No. 2 of the SANTA RITA #20 lode, identical with Cor. No. 4 of the SANTA RITA #22 lode, both of this survey.</p>
1,218.38	<p>Intersect line 2-3, M.S. No. 4718 GUNSIGHT NO. 34 lode, at a point from which Cor. No. 2 bears N.2°52'30"E., 386.08 ft. dist.</p>
1,459.00	<p>Cor. No. 3, on line 3-4 SANTA RITA #22 lode of this survey.</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 S.R.17 3 U.S.M.S. 4820; from which</p>

## Mineral Survey No. 4820

FEET	
	<p>Cor. No. 2, M.S. No. 4718 GUNSIGHT NO. 34 lode, bears N.5°14'20"E., 625.84 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.58°48'W.</p>
299.90	Lode line; discovery point bears N.9°02'E., 500.00 ft. dist.
435.	Center of unimproved dirt road, 16 ft. wide, bears N.54°E. and S.54°W.
599.90	<p>Cor. No. 4, identical with Cor. No. 2, M.S. No. 4718 SANTA RITA #16 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 S.R.16 2 U.S.M.S. 4718, to which I add marks S.R.17 4 U.S.M.S. 4820; 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.9°02'E.</p>
342.71	Intersect line 1-2, M.S. No. 4718 GUNSIGHT NO. 34 lode, at a point from which Cor. No. 2 bears S.87°07'41"E., 517.09 ft. dist.
1,459.00	<p>Cor. No. 1, and place of beginning.</p> <hr/> <p>SANTA RITA #18 LODE</p> <p>At Cor. No. 1 of the SANTA RITA #18 lode, on line 4-1 SANTA RITA #19 lode of this survey.</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 S.R.18 1 U.S.M.S. 4820; from which</p>

## Mineral Survey No. 4820

FEET	
	<p>The 1/4 sec. cor. of secs. 30 and 31, bears N.25°49'27"E., 493.97 ft. dist., hereinbefore described.</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.35°44'32"W.</p>
100.83	Intersect line 4-1 ROSEMONT #15 lode of this survey.
624.	Center of unimproved dirt road, 16 ft. wide, bears N.68°E. and S.68°W.
938.56	Intersect line 4-1 SANTA RITA WEDGE lode of this survey.
1,135.	Center of unimproved dirt road, 16 ft. wide, bears N.13°E. and S.13°W.
1,204.	Center of unimproved dirt road, 16 ft. wide, bears N.71°W. and S.71°E.
1,448.30	Cor. No. 2, identical with Cor. No. 4 of the SANTA RITA #19 lode of this survey.
	<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 S.R.18 2 S.R.19 4 U.S.M.S. 4820; 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.70°16'39"W.</p>
299.70	Lode line; discovery point bears N.35°44'32"E., 648.30 ft. dist.
366.69	Intersect line 2-3 SANTA RITA #17 lode, common with line 3-4 SANTA RITA WEDGE lode, both of this survey.
381.	Center of unimproved dirt road, 16 ft. wide, bears N.53°E. and S.53°W.

## Mineral Survey No. 4820

FEET	
599.70	<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 S.R.18 3 U.S.M.S. 4820; 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.35°44'32"E.</p>
509.42	<p>Cor. No. 4 of the SANTA RITA WEDGE lode, identical with Cor. No. 2 of the SANTA RITA #17 lode, both of this survey and Cor. No. 2, M.S. No. 4718 SANTA RITA #11 lode.</p>
997.	<p>Center of unimproved dirt road, 16 ft. wide, bears N.54°W. and S.54°E.</p>
1,222.65	<p>Intersect line 2-3 TRAVIS #4 lode of this survey.</p>
1,448.30	<p>Cor. No. 4, on line 1-2, M.S. No. 4718 SANTA RITA #11 lode.</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 S.R.18 4 U.S.M.S. 4820; 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 S.70°16'39"E.</p>
300.00	<p>Lode line; discovery point bears S.35°44'32"W., 800.00 ft. dist.</p>
496.96	<p>Intersect line 4-1 TRAVIS #4 lode, common with line 1-2 ROSEMONT #15 lode, both of this survey.</p>
599.70	<p>Cor. No. 1, and place of beginning.</p>

## Mineral Survey No. 4820

FEET	SANTA RITA #19 LODE
	At Cor. No. 1 of the SANTA RITA #19 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 S.R.19 1 U.S.M.S. 4820; from which
	The 1/4 sec. cor. of secs. 30 and 31, bears N.25°48'10"E., 492.88 ft. dist., hereinbefore described.
	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.70°22'16"E.
300.00	Lode line; discovery point bears S.35°44'32"W., 800.00 ft. dist.
339.39	Intersect line 4-1 ROSEMONT #15 lode of this survey.
600.56	Cor. No. 2.
	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 S.R.19 2 U.S.M.S. 4820; 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.35°44'32"W.
421.	Center of unimproved dirt road, 16 ft. wide, bears N.50°W. and S.50°E.
940.36	Intersect line 4-1 SANTA RITA WEDGE lode of this survey.
1,449.40	Cor. No. 3.

## Mineral Survey No. 4820

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 S.R.19 3 U.S.M.S. 4820; 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.70°22'16"W.</p>
300.56	<p>Lode line; discovery point bears N.35°44'32"E., 649.40 ft. dist.</p>
552.	<p>Center of unimproved dirt road, 16 ft. wide, bears N.14°E. and S.14°W.</p>
600.56	<p>Cor. No. 4, identical with Cor. No. 2 of the SANTA RITA #18 lode of this survey.</p>
	<p>Thence N.35°44'32"E.</p>
246.	<p>Center of unimproved dirt road, 16 ft. wide, bears N.71°W. and S.71°E.</p>
315.	<p>Center of unimproved dirt road, 16 ft. wide, bears N.13°E. and S.13°W.</p>
509.74	<p>Intersect line 4-1 SANTA RITA WEDGE lode of this survey.</p>
826.	<p>Center of unimproved dirt road, 16 ft. wide, bears N.68°E. and S.68°W.</p>
1,347.47	<p>Intersect line 4-1 ROSEMONT #15 lode of this survey.</p>
1,448.30	<p>Cor. No. 1 of the SANTA RITA #18 lode of this survey.</p>
1,449.40	<p>Cor. No. 1, and place of beginning.</p>
	<hr/> <p style="text-align: center;">SANTA RITA #20 LODE</p> <p>At Cor. No. 1 of the SANTA RITA #20 lode, identical with Cor. No. 1 of the SANTA RITA #22 lode of this survey.</p>

## Mineral Survey No. 4820

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 S.R.20 1 S.R.22 1 U.S.M.S. 4820; from which</p> <p>The 1/4 sec. cor. of secs. 30 and 31, bears N.2°07'17"E., 2,653.62 ft. dist., hereinbefore described.</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.70°18'25"W.</p>
1,329.	<p>Center of unimproved dirt road, 16 ft. wide, bears N.43°E. and S.45°W.</p>
1,499.19	<p>Cor. No. 2, identical with Cor. No. 4 of the SANTA RITA #22 lode and on line 2-3 SANTA RITA #17 lode, both of this survey.</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 S.R.20 2 S.R.22 4 U.S.M.S. 4820; 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.9°02'E.</p>
300.00	<p>Lode line; discovery point bears S.70°18'25"E., 110.00 ft. dist.</p>
599.66	<p>Cor. No. 3, identical with Cor. No. 3 of the SANTA RITA WEDGE lode and on line 2-3 SANTA RITA #17 lode, both of this survey.</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 S.R.20 3 S.R.W.3 U.S.M.S. 4820; from which</p> <p>A wood post, 4 x 4 ins. in size, 4 ft. above ground, sets adjacent to the iron post.</p>

## Mineral Survey No. 4820

FEET	
	<p>No local bearing objects or bearing trees available.</p> <p style="text-align: center;">Thence S.70°18'25"E.</p>
403.	Center of unimproved dirt road, 16 ft. wide, bears N.24°E. and S.24°W.
1,274.39	Cor. No. 2 of the SANTA RITA WEDGE lode of this survey.
1,499.19	<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 S.R.20 4 U.S.M.S. 4820; from which</p> <p style="text-align: center;">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 S.9°02'W.</p>
299.66	Lode line; discovery point bears N.70°18'25"W., 1,389.19 ft. dist.
599.66	Cor. No. 1, and place of beginning.
<hr/> <p>SANTA RITA #22 LODE</p>	
	<p>Beginning at Cor. No. 1 of the SANTA RITA #22 lode, identical with Cor. No. 1 of the SANTA RITA #20 lode of this survey.</p> <p style="text-align: center;">Thence S.9°02'W.</p>
294.75	Lode line; discovery point bears N.70°18'25"W., 45.00 ft. dist.
594.75	<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 S.R.22 2 U.S.M.S. 4820; from which</p> <p style="text-align: center;">A wood post, 4 x 4 ins. in size, 4 ft. above ground, sets adjacent to the iron post.</p>



## Mineral Survey No. 4820

FEET	
	No local bearing objects or bearing trees available. Thence N.70°18'25"W.
1,439.45	Intersect line 2-3, M.S. No. 4718 GUNSIGHT NO. 34 lode, at a point from which Cor. No. 2 bears N.2°52'30"E., 933.32 ft. dist.
1,491.	Center of unimproved dirt road, 16 ft. wide, bears N.25°E. and S.25°W.
1,499.19	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 S.R.22 3 U.S.M.S. 4820; 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.9°02'E.
291.	Center of unimproved dirt road, 16 ft. wide, bears N.40°E. and S.40°W.
292.42	Cor. No. 3, SANTA RITA #17 lode of this survey.
300.00	Lode line; discovery point bears S.70°18'25"E., 1,454.19 ft. dist.
533.04	Intersect line 2-3, M.S. No. 4718 GUNSIGHT NO. 34 lode, at a point from which Cor. No. 2 bears N.2°52'30"E., 386.08 ft. dist.
594.75	Cor. No. 4, identical with Cor. No. 2 of the SANTA RITA #20 lode and on line 2-3 SANTA RITA #17 lode, both of this survey.  Thence S.70°18'25"E.
171.	Center of unimproved dirt road, 16 ft. wide, bears N.43°E. and S.45°W.
1,499.19	Cor. No. 1, and place of beginning.

## Mineral Survey No. 4820

FEET	SANTA RITA WEDGE LODGE
	<p>At Cor. No. 1 of the SANTA RITA WEDGE lode.</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 S.R.W.1 U.S.M.S. 4820; from which</p> <p style="padding-left: 40px;">The 1/4 sec. cor. of secs. 30 and 31, bears N.5°06'46"E., 1,439.47 ft. dist., hereinbefore described.</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="padding-left: 40px;">Thence S.9°02'W.</p>
278.50	<p>Lode line; discovery point bears N.70°18'25"W., 190.00 ft. dist.</p>
557.00	<p>Cor. No. 2, on line 3-4 SANTA RITA #20 lode of this survey.</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 S.R.W.2 U.S.M.S. 4820; 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="padding-left: 40px;">Thence N.70°18'25"W.</p>
872.	<p>Center of unimproved dirt road, 16 ft. wide, bears N.24°E. and S.24°W.</p>
1,274.39	<p>Cor. No. 3, identical with Cor. No. 3 of the SANTA RITA #20 lode and on line 2-3 SANTA RITA #17 lode, both of this survey.</p> <p style="padding-left: 40px;">Thence N.9°02'E.</p>
58.71	<p>Intersect line 2-3 SANTA RITA #18 lode of this survey.</p>



## Mineral Survey No. 4820

FEET	AREAS	Acres
	Total area, SANTA RITA #7 lode -----	18.992
	Area in conflict with:	
	TRAVIS #4 lode of this survey -----	8.371
	ROSEMONT #15 lode of this survey -----	0.709
	Total area, Travis #1 lode -----	17.478
	Area in conflict with:	
	M.S. No. 1297A La Fayette lode -----	2.199
	Total Area, TRAVIS #4 lode -----	20.440
	Area in conflict with:	
	M.S. No. 4718 SANTA RITA #6 lode -----	0.348
	M.S. No. 4718 SANTA RITA #11 lode -----	4.306
	Total area, ROSEMONT #15 lode -----	20.486
	Total area, SANTA RITA #17 lode -----	18.608
	Area in conflict with:	
	M.S. No. 4718 GUNSIGHT NO. 34 lode -----	6.011
	Total area, SANTA RITA #18 lode -----	19.165
	Area in conflict with:	
	TRAVIS #4 lode of this survey -----	2.339
	ROSEMONT #15 lode of this survey -----	0.172
	SANTA RITA #17 lode of this survey -----	1.310
	Total area, SANTA RITA #19 lode -----	19.198
	Area in conflict with:	
	ROSEMONT #15 lode of this survey -----	0.382
	Total area, SANTA RITA #20 lode -----	20.282
	Total area, SANTA RITA #22 lode -----	20.116
	Area in conflict with:	
	M.S. No. 4718 GUNSIGHT NO. 34 lode -----	0.359
	Total area, SANTA RITA WEDGE lode ----	16.014
	Area in conflict with:	
	SANTA RITA #18 lode of this survey -----	5.434
	SANTA RITA #19 lode of this survey -----	6.747
	LOCATION	
	This survey is located in the NE, NW, SE and SW 1/4's sec. 30; NE, NW and SW 1/4's sec. 31, T.18 S., R.16 E., G. & S.R.M.	

## Mineral Survey No. 4820

FEET	
	<p>The survey of the SANTA RITA #s 1-3, 7, 17-20 and 22, Travis #1, TRAVIS #4, ROSEMONT #15 and SANTA RITA WEDGE lodes is identical with the respective locations or amended locations as marked on the ground.</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 each of the lode locations embraced in said mining claim by the claimant or its grantors are as follows:</p>
No. 1	<p>The discovery point of the SANTA RITA #1 lode is on the lode line, 50. ft. from a point on line 1-2, 300.00 ft. from Cor. No. 1, a post and notice. Value, None</p>
No. 1	<p>The discovery point of the SANTA RITA #2 lode is on the lode line, 45. ft. from a point on line 4-1, 300.80 ft. from Cor. No. 4, a post and notice. Value, None</p>
No. 1	<p>The discovery point of the SANTA RITA #3 lode is on the lode line, 600. ft. from a point on line 2-3, 304.79 ft. from Cor. No. 2, a post and notice. Value, None</p>
No. 1	<p>The discovery point of the SANTA RITA #7 lode is on the lode line, 20. ft. from a point on line 1-2, 300.00 ft. from Cor. No. 1, a post and notice. Value, None</p>
No. 1	<p>The discovery point of the Travis #1 lode is on the lode line, 540. ft. from a point on line 2-3, 289.32 ft. from Cor. No. 2, a post and notice. Value, None</p>
No. 1	<p>The discovery point of the TRAVIS #4 lode is on the lode line, 300. ft. from a point on line 1-2, 298.15 ft. from Cor. No. 1, a post and notice. Value, None</p>
No. 1	<p>The discovery point of the ROSEMONT #15 lode is on the lode line, 25. ft. from a point on line 2-3, 300.00 ft. from Cor. No. 2, a post and notice. Value, None</p>

## Mineral Survey No. 4820

FEET	
No. 1	<p>The discovery point of the SANTA RITA #17 lode is on the lode line, 500. ft. from a point on line 3-4, 299.90 ft. from Cor. No. 3, a post and notice. Value, None</p>
No. 1	<p>The discovery point of the SANTA RITA #18 lode is on the lode line, 800. ft. from a point on line 4-1, 300.00 ft. from Cor. No. 4, a post and notice. Value, None</p>
No. 1	<p>The discovery point of the SANTA RITA #19 lode is on the lode line, 800. ft. from a point on line 1-2, 300.00 ft. from Cor. No. 1, a post and notice. Value, None</p>
No. 1	<p>The discovery point of the SANTA RITA #20 lode is on the lode line, 110. ft. from a point on line 2-3, 300.00 ft. from Cor. No. 2, a post and notice. Value, None</p>
No. 1	<p>The discovery point of the SANTA RITA #22 lode is on the lode line, 45. ft. from a point on line 1-2, 294.75 ft. from Cor. No. 1, a post and notice. Value, None</p>
No. 1	<p>The discovery point of the SANTA RITA WEDGE lode is on the lode line, 190. ft. from a point on line 1-2, 278.50 ft. from Cor. No. 1, a post and notice. Value, None</p>
	<p>An interest in a common improvement described as follows:</p> <p>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.</p> <p>Following is a list of drill holes describing each and giving its location within a particular lode and its value:</p> <p>A drill hole, No. 1456, bears N.49°21'W., 508. ft. from Cor. No. 1 SANTA RITA #1 lode; NX in size, 95. ft. deep. Value, \$ 844.33</p>

## Mineral Survey No. 4820

FEET					
	<p>A drill hole, No. 1458, bears S.72°21'E., 513. ft. from Cor. No. 1 SANTA RITA #2 lode; NX in size, 204. ft. deep. Value, \$ 1,698.53</p>				
	<p>A drill hole, No. 1460, bears S.3°02'W., 554. ft. from Cor. No. 1 SANTA RITA #3 lode; NX in size, 231. ft. deep. Value, \$ 1,950.23</p>				
	<p>A drill hole, No. A737, bears S.74°34'E., 1,011. ft. from Cor. No. 1 Travis #1 lode; NX in size, 300. ft. deep. Value, \$ 2,163.99</p>				
	<p>A drill hole, No. A746, bears N.48°58'W., 323. ft. from Cor. No. 1 TRAVIS #4 lode; NX in size, 122. ft. deep. Value, \$ 764.22</p>				
	<p>A drill hole, No. A720, bears N.81°11'E., 342. ft. from Cor. No. 1 ROSEMONT #15 lode; NX in size, 1,772. ft. deep. Value, \$13,362.96</p>				
	<p>A drill hole, No. A832, bears N.84°16'W., 306. ft. from Cor. No. 1 SANTA RITA #22 lode; NX-BX in size, 1,591. ft. deep. Value, \$ 9,311.27</p>				
	<table> <tr> <td>Value of drill holes</td> <td>\$ 30,095.53</td> </tr> <tr> <td>Value of 1/13th interest</td> <td>2,315.04</td> </tr> </table>	Value of drill holes	\$ 30,095.53	Value of 1/13th interest	2,315.04
Value of drill holes	\$ 30,095.53				
Value of 1/13th interest	2,315.04				
	<p>Except as above stated, no portion of or interest in these improvements has been credited heretofore as patent expenditure to any lode claim.</p>				
	<p style="text-align: center;">OTHER IMPROVEMENTS</p>				
	<p>Access roads traverse the common group of 50 claims, M.S. Nos. 4815, 4816, 4817, 4818, 4819 and M.S. No. 4821 (unapproved) and provide access to the four lodes of this survey. Claimant herein</p>				

## Mineral Survey No. 4820

FEET

OTHER CORNER DESCRIPTIONS  
AND SUPPLEMENTAL DATA

M.S. No. 1297A Dan Webster lode: Cor. No. 3, identical with Cor. No. 1 of the Patrick Henry lode of the same survey, Cor. No. 2 of the SANTA RITA #1 lode of this survey and Cor. No. 4, M.S. No. 4718 SANTA RITA #4 lode, described above.

M.S. No. 1297A La Fayette lode: Cors. Nos. 1, 2 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. Line 1-2 was found to be N.11°55'21"W., 1,500.77 ft. instead of N.12°30'W., 1,500.00 ft. as approved. Line 3-4 is shown as approved. Line 4-1 was found to be N.87°04'W., 600.19 ft. instead of N.87°45'W., 600.00 ft. as approved.

M.S. No. 1297A Patrick Henry lode: Cor. No. 1, identical with Cor. No. 2 of the SANTA RITA #1 lode of this survey, Cor. No. 4, M.S. No. 4718 SANTA RITA #4 lode and Cor. No. 3, M.S. No. 1297A Dan Webster lode, described above. Cor. No. 4 is monumented with a wood post, 4 x 4 ins., 2 ft. above ground, slightly loose in the stones or ground. Line 4-1 was found to be S.43°56'21"W., 1,500.50 ft. instead of S.43°50'W., 1,500.00 ft. as approved.

M.S. No. 4718 GUNSIGHT NO. 34 lode: Cors. Nos. 1, 2 and 3 are monumented with 3/4 in. pipe with a brass cap, 1 ft. above ground, firmly set, properly mkd. Lines 1-2 and 2-3 are correct as approved.

M.S. No. 4718 SANTA RITA #4 lode: Cor. No. 1, identical with Cor. No. 1 of the SANTA RITA #1 lode, Cor. No. 1 of the SANTA RITA #2 lode, both of this survey and Cor. No. 1, M.S. No. 4718 SANTA RITA #5 lode, described above. Line 4-1, identical with line 1-2 SANTA RITA #1 lode of this survey, described above.

M.S. No. 4718 SANTA RITA #5 lode: Cor. No. 1, identical with Cor. No. 1 of the SANTA RITA #4 lode of the same survey, Cor. No. 1 of the SANTA RITA #1 lode and Cor. No. 1 of the SANTA RITA #2 lode, both of this survey, described above. Line 1-2, common with Line 4-1 SANTA RITA #2 lode of this survey, described above.



## Mineral Survey No. 4820

FEET	<p>M.S. No. 4718 SANTA RITA #6 lode: Cor. No. 1, identical with Cor. No. 1 of the SANTA RITA #7 lode of this survey; Cor. No. 2, identical with Cor. No. 4 of the SANTA RITA #7 lode of this survey, Cor. No. 4, M.S. No. 4718 SANTA RITA #11 lode and Cor. No. 2 SANTA RITA #10 lode, both of the same survey; and Cor. No. 4, identical with Cor. No. 2 of the SANTA RITA #5 lode of the same survey, Cor. No. 4 of the SANTA RITA #2 lode and Cor. No. 4 of the SANTA RITA #3 lode, both of this survey, described above. Line 1-2, common with line 4-1 SANTA RITA #7 lode of this survey was found to be S.27°16'03"W., 1,382.33 ft. instead of S.27°13'41"W., 1,382.52 ft. as approved. Line 4-1, in part common with line 3-4 SANTA RITA #3 lode of this survey is correct as approved.</p> <p>M.S. No. 4718 SANTA RITA #10 lode: Cor. No. 2, identical with Cor. No. 2 of the SANTA RITA #6 lode, Cor. No. 4 of the SANTA RITA #11 lode, all of the same survey and Cor. No. 4 of the SANTA RITA #7 lode of this survey, described above.</p> <p>M.S. No. 4718 SANTA RITA #11 lode: Cor. No. 1, identical with Cor. No. 3 of the SANTA RITA #7 lode of this survey; Cor. No. 2, identical with Cor. No. 4 of the Santa Rita Wedge lode and Cor. No. 2 of the SANTA RITA #17 lode, both of this survey; Cor. No. 3, identical with Cor. No. 1 of the SANTA RITA #17 lode of this survey, Cor. No. 1, M.S. No. 4718 SANTA RITA #16 lode and Cor. No. 3 of the SANTA RITA #10 lode, both of the same survey; Cor. No. 4, identical with Cor. No. 2, M.S. No. 4718 SANTA RITA #10 lode, Cor. No. 2 of the SANTA RITA #6 lode of the same survey and Cor. No. 4 of the SANTA RITA #7 lode of this survey, described above. Line 1-2, in part common with line 3-4 SANTA RITA #18 lode of this survey was found to be S.35°44'32"W., 1,497.89 ft. instead of S.35°46'36"W., 1,497.89 ft. as approved. Line 2-3, common with line 1-2 SANTA RITA #17 lode of this survey and line 4-1, common with line 3-4 SANTA RITA #7 lode of this survey, are correct as approved.</p>
------	--

## Mineral Survey No. 4820

FEET	<p>M.S. No. 4718 SANTA RITA #16 lode: Cor. No. 1, identical with Cor. No. 3 of the SANTA RITA #10 lode, Cor. No. 3 of the SANTA RITA #11 lode, all of the same survey and Cor. No. 1 of the SANTA RITA #17 lode of this survey, described above. Cor. No. 2, identical with Cor. No. 4 of the SANTA RITA #17 lode of this survey, described above. Line 1-2, common with line 4-1 SANTA RITA #17 lode of this survey, described above.</p> <hr/> <p style="text-align: center;">MEMORANDUM</p> <p style="text-align: center;">None</p> <hr/> <p style="text-align: center;">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>Kent D. Miller</td> <td>Assistant Instrumentman</td> </tr> <tr> <td>Eric O'Neil</td> <td>Rodman-Chainman</td> </tr> </tbody> </table>	Name	Capacity	Kent D. Miller	Assistant Instrumentman	Eric O'Neil	Rodman-Chainman
Name	Capacity						
Kent D. 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	August 5, 1991

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, 1991 and amended January 23, 1989, I have carefully executed the survey of the claim of ASARCO Incorporated, known as the SANTA RITA #'s 1-3, SANTA RITA #7, Travis #1, TRAVIS #4, ROSEMONT #15, SANTA RITA #'s 17-20, SANTA RITA #22 and SANTA RITA WEDGE lodes, situated in surveyed sections 30 and 31, Township 18 South, Range 16 East, Gila and Salt River Meridian, in the State of Arizona.

This survey, designated as number 4820, 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 SANTA RITA #'s 1-3, SANTA RITA #7, Travis #1, TRAVIS #4, ROSEMONT #15, SANTA RITA #'s 17-20, SANTA RITA #22 and SANTA RITA WEDGE lodes locations 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)

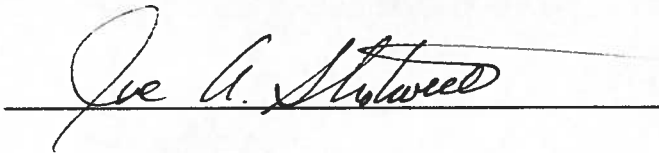
  
(Signature of Mineral Surveyor)

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  
August 27, 1991

The foregoing field notes of mineral survey number 4820, in surveyed sections 30 and 31, Township 18 South, Range 16 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.



(Authorized Signature)

Chief Cadastral Surveyor of Arizona  
Acting

(Title)

Form 3860-11  
(March 1991)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Serial Number

**CERTIFICATE OF EXPENDITURES, IMPROVEMENTS, AND MINERAL SURVEY**

Date

Name of Claimant

**ASARCO Incorporated**

Mineral Survey Number

**4820**

I HEREBY CERTIFY That the record of the above-described mineral survey furnishes such an accurate description of all claims embraced within the survey that it will, if incorporated into a patent, serve fully to identify the premises and that references are made in the survey to natural objects or permanent monuments so that the location of the claims will be perpetuated and fixed.

I FURTHER CERTIFY That the record reveals 1) not less than \$500 worth of labor has been expended for improvements upon and for the benefit of each of the lode claims embraced within the survey, and 2) that the improvements were made by the claimant or his grantors.

Date

**August 29, 1991**

Authorized Signature,

**Joe A. Shotwell**

**Joe A. Shotwell, Acting Chief, Branch of Cadastral Survey**