

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

MINERAL SURVEY NO. 4447

Pima Mining District, Pima County, Arizona

Land District.

FIELD NOTES

Of The Survey Of The Mining Claim Of

American Smelting & Refining Company

Known As The

Fed. No. 24, Cobre Hondo No. 2, Cobre Hondo No. 1, Cobre Hondo, Kino #10,  
Kino #11, Kino #12, Kino #14, Mission #1, Fed. No. 26, Fed. No. 25, Fed. No. 28,  
Fed. No. 27, Fed. No. 29, Fed. No 30, Kino #15, Mission #2 and Fed No. 34 lodes.  
Pima Mining District,

Pima County, Arizona

Section 31, Township 16 South, Range 13 East, G. & S.R.B. & M.

Surveyed under order dated March 11, 19 58

by Clifford E. Way  
Mineral Surveyor.

Claim located See reverse side, 19

Survey commenced March 20, 1958

Survey completed May 20, 1958

Address of claimant 9th Floor, Valley National Bank Building,  
Tucson, Arizona

DATES OF AMENDED LOCATIONS

See Reverse side

Name of Claim	Date of Location	Date of Amended Location
Cobre Hondo	March 15, 1953	January 16, 1957
Cobre Hondo No. 1	March 15, 1953	January 16, 1957
Cobre Hondo No. 2	March 15, 1953	January 16, 1957
Fed. No. 24	December 12, 1953	
Fed. No. 25	December 12, 1953	
Fed. No. 26	December 12, 1953	
Fed. No. 27	December 12, 1953	
Fed. No. 28	December 12, 1953	
Fed. No. 29	December 12, 1953	
Fed. No. 30	December 12, 1953	
Fed. No. 34	June 4, 1954	
Kino #10	September 5, 1953	
Kino #11	October 13, 1953	
Kino #12	October 13, 1953	
Kino #14	September 5, 1953	
Kino #15	December 2, 1953	
Mission #1	November 16, 1953	
Mission #2	November 16, 1953	

## Mineral Survey No. 4447

Chains

This survey was made with a Hilger & Watts Microptic Theodolite, No. 104104. The verniers read to 20 seconds, with an estimation to the closest five seconds; the eyepiece is equipped with a colored shade 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.

All azimuths in this record were determined by direct angles referred to the meridian determined by the following observations:

April 10, 1958, at the  $\frac{1}{2}$  sec. cor. of secs. 31 and 32, T. 16 S., R. 13 E., G. & S. R. B. & M., in latitude  $31^{\circ} 59' 30''$  N. and longitude  $111^{\circ}$  W., I make a series of six altitude observations upon the sun for azimuth at approximately equal time intervals, three each with the telescope in direct and reversed positions, observing opposite limbs of the sun, and reading the horizontal angle from the section corner one-half mile south.

Mean time of observation, 105th meridian  
standard time 4h 00m 11s p. m.  
Declination of sun at mean time of observation  
 $8^{\circ} 02' 16''$  N.

Mean observed vertical angle to sun's center  
 $34^{\circ} 56' 55''$

Mean horizontal angle from section line to sun's center  
 $75^{\circ} 32' 25''$

True bearing of section line  
 $S. 0^{\circ} 51' 35''$  W.

The lines were measured with a Luffkin steel tape, 300 ft. in length, graduated every foot for 300 ft., and a Dietzgen steel tape, 8 ft. in length, graduated to feet, tenths and hundredths; both tapes were compared with a certified tape No. 10839 at the time of beginning the survey and found correct.

All lines and connections of this survey were run by direct methods except those connections as shown by the calculation sheets herewith submitted.

The magnetic declinations at each corner of the survey gave a uniform value of  $14^{\circ} 30'$  E.

## Mineral Survey No. 4447

Feet

## FED. NO. 24 LODGE

At cor. No. 1 of the Fed. No. 24 lode, identical with cor. No. 1 of Fed No. 21 lode of Survey No. 4427.

Found a 2 ins. lead capped pipe, mkd. USMS 4427-F21-1, added 4447-F24-1; from which

The  $\frac{1}{2}$  sec. cor. of secs. 30 and 31, T. 16 S., R. 13 E., G. & S. R. Mer., bears  $S. 89^{\circ} 02' 35''$  W., 188.12 ft. dist., an iron post, 1 ins. diam., 14 ins. above ground, firmly set and mkd. as described in the official record.

Thence  $N. 89^{\circ} 02' 35''$  E.

1017.40 Intersect cor. No. 4 of the Fed. No. 25 lode of this survey.

<p>1020.25</p>	<p>Cor. No. 2.</p> <p>Set a 2 ins. x 36 ins. flanged iron pipe, with a 2½ ins. x 2½ ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-F24-2.</p> <p>Thence S. 0° 44' 00" W.</p>
<p>5.00</p>	<p>Power line, bears E. and W.</p>
<p>50.00</p>	<p>Road, bears E. and W.</p>
<p>100.00</p>	<p>Right-of-way line Pima Mine Road, bears E. and W.</p>
<p>210.00</p>	<p>Wash, 5 ft. wide, course N. 55° E.</p>
<p>300.00</p>	<p>Lode line; discovery point bears N. 89° 41' W., 10 ft. dist.</p>
<p>442.64</p>	<p>Cor. No. 3, on line 1-2 of the Cobre Hondo lode of this survey.</p> <p>Set a 2x36 ins. flanged iron pipe, with a 2½x2½ ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-F24-3.</p> <p>Thence N. 89° 41' W.</p>
<p>3.82</p>	<p>Intersect line 3-4, Fed. No. 25 lode of this survey at a point from which cor. No. 4 bears N. 0° 51' 35" E., 442.64 ft. dist.</p>
<p>370.00</p>	<p>Intersect cors. Nos. 1 and 2 of the Cobre Hondo lode and Cobre Hondo No. 1 lode.</p>
<p>605.00</p>	<p>Wash, 4 ft. wide, course N. 80° E.</p>
<p>820.00</p>	<p>Intersect cors. Nos. 1 and 2, Cobre Hondo No. 1 lode and Cobre Hondo No. 2 lode.</p>
<p>1020.00</p>	<p>Cor. No. 4, identical with cor. No. 2 of the Fed. No. 21 lode of Survey No. 4427, on line 1-2 of the Cobre Hondo No. 2 lode of this survey.</p> <p>Found a 2 ins. lead capped pipe, 30 ins. above ground, mkd. USMS 4427-F21-2, added 4447-F24-4; from which</p> <p>Drill hole No. 187 bears N. 57° 52' E., 199.4 ft. dist.</p> <p>Thence N. 0° 44' 00" E.</p>
<p>142.64</p>	<p>Lode line; discovery point bears S. 89° 41' E., 1010 ft. dist.</p>
<p>185.00</p>	<p>Road, bears NE. and SW.</p>
<p>319.92</p>	<p>Right-of-way line, Pima Pine Road, bears E. and W.</p>
<p>370.00</p>	<p>Road, bears E. and W.</p>
<p>415.00</p>	<p>Power line, bears E. and W.</p>
<p>419.92</p>	<p>Cor. No. 1 and point of beginning.</p>

**COBRE HONDO NO. 2 LODE**

At cor. No. 1 of the Cobre Hondo No. 2 lode, identical with cor. No. 1 of the Fed No. 22 lode, and on line 2-3 of the Fed. No. 21 lode, both of Sur. No. 4427.

Mineral Survey No. 4447

Feet

Found a 2 ins. L.C.P. mkd. USMS 4427-F-22-1, added USMS 4447-CH-2-1; from which

The 1/4 sec. cor. of secs. 30 and 31 bears N. 27° 39' 36" E., 468.03 ft. dist.

Drill hole No. 115 bears S. 35° 47' E., 177.3 ft. dist.

Thence S. 89° 41' E.

45.00 Road, bears N. 10° W. and S. 10° E.

177.00 Road, bears NE. and SW.

300.00 Lode line; discovery point bears S. 0° 44' W., 650 ft. dist.

400.00 Intersect cor. No. 2 of the Fed. No. 21 lode of survey No. 4427, identical with cor. No. 4, Fed No. 24 lode of this survey.

600.00 Cor. No. 2, identical with cor. No. 1 of the Cobre Hondo No. 1 lode of this survey.

Set a 2x36 ins. flanged iron pipe, with a 2 1/2 x 2 1/2 ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-CH2-2-CH1-1.

Thence S. 0° 44' W.

100.00 Wash, 5 ft. wide, course N. 60° E.

520.00 Wash, 20 ft. wide, course N. 55° E.

715.00 Road, bears E. and W.

1004.00 Wash, 40 ft. wide, course N. 65° E.

1422.00 Wash, 3 ft. wide, course E.

1500.00 Cor. No. 3, identical with cor. No. 4 of the Cobre Hondo No. 1 lode and on line 1-2 of the Kino #10 lode, both of this survey.

Set a 2x36 ins. flanged iron pipe, with a 2 1/2 x 2 1/2 ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-CH2-3-CH1-4.

Thence N. 89° 41' W.

20.00 Road, bears N. and S.

251.00 Wash, 2 ft. wide, course N. 60° E.

300.00 Lode line; discovery point bears N. 0° 44' E., 850 ft. dist.

500.00 Intersect cor. No. 1 Kino #9 lode of survey No. 4427, identical with cor. No. 1 Kino #10 lode of this survey.

578.00 Road, bears N. and S.

600.00 Cor. No. 4, identical with cor. No. 4 of the Fed. No. 22 lode, and on line 1-2 of the Kino #9 lode, both of survey No. 4427.

Found a 2 ins. L.C.P., mkd. USMS 4427-F22-4; added 4447-CH2-4.

Thence N. 0° 44' E.

51.00 Wash, 60 ft. wide, course N. 60° E.

140.00 Road, bears N. 25° W. and S. 25° E.

Mineral Survey No. 4447

Course Feet	
480.00	Road, bears N. 70° E. and S. 70° W.
560.00	Wash, 70 ft. wide, course N. 60° E.
1042.00	Wash, 4 ft. wide, course N. 65° E.
1500.00	Cor. No. 1 and point of beginning.
<b>COBRE HONDO NO. 1 LODE</b>	
Beginning at cor. No. 1 of the Cobre Hondo No. 1 lode, identical with cor. No. 2 of the Cobre Hondo No. 2 lode, both of this survey; from which	
The 1/4 sec. cor. of secs. 30 and 31 bears N. 42° 29' 28" W., 566.68 ft. dist.	
Thence S. 89° 41' E.	
215.00	Wash, 4 ft. wide, course N. 80° E.
225.00	Lode line; discovery point bears S. 0° 44' W., 700. ft. dist.
450.00	Cor. No. 2, identical with cor. No. 1 of the Cobre Hondo lode, and on line 3-4 of the Fed No. 24 lode, both of this survey.
Set a 2x36 ins. flanged iron pipe, with a 2 1/2 x 2 1/2 ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-CH1-2-CH-1; from which	
Drill hole No. 190 bears S. 17° 12' W., 608 ft. dist.	
Thence S. 0° 44' W.	
210.00	Wash, 20 ft. wide, course N. 60° E.
670.00	Road, bears N. 70° E. and S. 70° W.
810.00	Center of wash area, 170 ft. wide, course N. 65° E.
1290.00	Wash, 4 ft. wide, course N. 45° E.
1500.00	Cor. No. 3, identical with cor. No. 4 of the Cobre Hondo lode, and on line 1-2 of the Kino #11 lode, both of this survey.
Set a 2x36 ins. flanged iron pipe with a 2 1/2 x 2 1/2 ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-CH1-3-CH4.	
Thence N. 89° 41' W.	
225.00	Lode line; discovery point bears N. 0° 44' E. 800 ft. dist.
350.00	Intersect Cors. 1 and 2 of the Kino #'s 11 and 10 lodes, this survey.
450.00	Cor. No. 4, identical with cor. No. 3 of the Cobre Hondo No. 2 lode, and on line 1-2 of the Kino #10 lode, both of this survey.
Thence N. 0° 44' E.	

Mineral Survey No. 4447

Feet		
78.00	Wash, 3 ft. wide, course E.	
496.00	Wash, 40 ft. wide, course N. 65° E.	
785.00	Road, bears E. and W.	
980.00	Wash, 20 ft. wide, course N. 55° E.	
1400.00	Wash, 5 ft. wide, course N. 60° E.	
1500.00	Cor. No. 1, and point of beginning?	
<b>COBRE HONDO-LODE</b>		
	Beginning at cor. No. 1 of the Cobre Hondo lode, identical with cor. No. 2 of the Cobre Hondo No. 1 lode, and on line 3-4 of the Fed. No. 24 lode, both of this survey; from which	
	The 1/2 sec. cor. of secs. 30 and 31, T. 16 S., R. 13 E., bears N. 63° 12' 56" W., 932.79 ft. dist.	
	Thence S. 89° 41' E.	
225.00	Lode line; discovery point bears S. 0° 44' W., 750 ft. dist.	
366.18	Intersect line 3-4, Fed. No. 25 lode of this survey, at a point from which cor. No. 3 bears S. 0° 51' 35" W., 1057.42 ft. dist.	
370.00	Intersect cor. No. 3 of Fed. No. 24 lode of this survey.	
450.00	Cor. No. 2.	
	Set a 2x36 ins. flanged iron pipe, with a 2 1/2 x 2 1/2 ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-CH-2.	
	Thence S. 0° 44' W.	
50.00	Wash, 25 ft. wide, course N. 70° E.	
440.00	Road, bears E. and W.	
572.00	Wash, 30 ft. wide, course N. 50° E.	
902.00	Wash, 25 ft. wide, course N. 65° E.	
1055.49	Intersect line 2-3 of the Fed. No. 25 lode, common with line 3-4 of the Fed. No. 27 lode, at a point from which cors. Nos. 3 and 3 of the Fed. No. 25 and the Fed. No. 27 lodes, bears N. 89° 02' 35" W., 86.20 ft. dist.	
1344.00	Road, bears E. and W.	
1500.00	Cor. No. 3, on line 4-1 of the King #12 lode of this survey.	
	Set a 2x36 ins. flanged iron pipe, with a 2 1/2 x 2 1/2 ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-CH-3.	
	Thence N. 89° 41' W.	
	Cor. No. 3, identical with cor. No. 3 of the King #12 lode, and on line 3-4 of the King #12 lode, both of this survey.	

Mineral Survey No. 4447

Feet

87.14 Intersect line 2-3 of the Fed. No. 27 lode, at a point from which cor. No. 3 bears N. 0° 51' 35" E., 442.58 ft. dist.

200.00 Intersect cor. Nos. 2 and 4 of Kino #11 and Kino #12, this survey.

225.00 Lode line; discovery point bears N. 0° 44' E., 750 ft. dist.

430.00 Road, bears N. 55° E. and S. 55° W.

450.00 Cor. No. 4, identical with cor. No. 3 of the Cobre Hondo No. 1 lode and on line 1-2 of the Kino #11 lode, both of this survey; from which Drill hole No. 191 bears N. 47° 14' E., 176 ft. dist.

Thence N. 0° 44' E.

210.00 Wash, 4 ft. wide, course N. 45° E.

690.00 Center of wash area, 170 ft. wide, course N. 65° E.

830.00 Road, bears N. 70° E. and S. 70° W.

1290.00 Wash, 20 ft. wide, course N. 60° E.

1500.00 Cor. No. 1, and point of beginning.

KINO #10 LODE

Beginning at cor. No. 1 of the Kino #10 lode, identical with cor. No. 1 of the Kino #9 lode of survey No. 4427, on line 3-4 of the Cobre Hondo No. 2 lode of this survey, a 2 ins. L.C.P., 24 ins. above ground, mkd. USMS 4427-K9-1, added mks. 4447-K10-1. The 1/2 sec. cor. of secs. 30 and 31, T. 16 S., R. 13 E., bears N. 4° 04' 35" E., 1919.83 ft. dist.

Thence S. 89° 41' E.

249.00 Wash, 2 ft. wide, course N. 60° E.

300.00 Lode line; discovery point bears S. 0° 46' W., 1200 ft. dist.

480.00 Road, bears N. and S. 50° E. and S. 50° W.

500.00 Intersect cor. No. 3 of the Cobre Hondo No. 2 lode and cor. No. 4 of the Cobre Hondo No. 1 lode, both of this survey.

600.00 Cor. No. 2, identical with cor. No. 1 of the Kino #11 lode, and on line 3-4 of the Cobre Hondo No. 1 lode, both of this survey.

Set a 2x36 ins. flanged iron pipe with a 2 1/2 x 2 1/2 ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-K10-2-K11-1.

Thence S. 0° 46' W.

225.00 Road, bears N. 60° E. and S. 80° W.

555.00 Wash, 3 ft. wide, course N. 75° E.

1289.00 Wash, 4 ft. wide, course N. 55° E.

1500.00 Cor. No. 3, identical with cor. No. 4 of the Kino #11 lode, and on line 3-4 of the Kino #14 lode, both of this survey.



Mineral Survey No. 4447

Feet	
	Set a 2x36 ins. flanged iron pipe with a 2½x2½ ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-K10-3-K11-4.
	Thence N. 89° 41' W.
119.00	Road, bears N. and S.
300.00	Lode line, identical with cor. No. 4 of the Kino #13 lode of survey No. 4427, and cor. No. 3 of the Kino #14 lode of this survey; discovery point bears N. 0° 46' E., 300 ft. dist.
600.00	Cor. No. 4, identical with cor. No. 4 of the Kino #9 lode, and on line 4-11 of the Kino #13 lode, both of survey No. 4427.  Found a 2 ins. L.C.P., 24' ins. above ground, mkd. USMS 4427-K9-4, added mks. 4447-K10-4; from which  Drill hole No. 132 bears N. 20° 44' E., 177 ft. dist.  Thence N. 0° 46' E.
105.00	Wash, 3 ft. wide, course N. 80° E.
300.00	Road, bears E. and W.
765.00	Wash, 5 ft. wide, course N. 65° E.
910.00	Road, bears N. 80° E. and S. 80° W.
1500.00	Cor. No. 1 and point of beginning.
<b>KINO #11 LODE</b>	
	Beginning at cor. No. 1 of the Kino #11 lode, identical with cor. No. 2 of the Kino #10 lode and on line 3-4 of the Cobre Hondo No. 1 lode, both of this survey. The ½ sec. cor. of secs. 30 and 31, T. 16 S., R. 13 E., bears N. 13° 35' 03" W., 1973.50 ft. dist.  Thence S. 89° 41' E.
300.00	Lode line; discovery point bears S. 0° 46' W., 1200 ft. dist.
350.00	Intersect cor. No. 3 of the Cobre Hondo No. 1 lode, identical with cor. No. 4 of the Cobre Hondo lode, both of this survey.
370.00	Road, bears N. 55° E. and S. 55° W.
600.00	Cor. No. 2, identical with cor. No. 4 of the Kino #12 lode and on line 3-4 of the Cobre Hondo lode, both of this survey.  Set a 2x36 ins. flanged iron pipe, with a 2½x2½ ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-K11-2-K12-4.  Thence S. 0° 46' W.
240.00	Wash, 5 ft. wide, course NE.
1115.00	Wash, 10 ft. wide, course N. 85° E.
1500.00	Cor. No. 3, identical with cor. No. 3 of the Kino #12 lode, and on line 3-4 of the Kino #14 lode, both of this survey.

<p>300.00</p> <p>600.00</p> <p>211.00</p> <p>945.00</p> <p>1275.00</p> <p>1500.00</p>	<p>Set a 2x36 ins. flanged iron pipe, with a 2½x2½ ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-K11-3-K12-3; from which</p> <p>Drill hole No. 145, bears N. 32° 17' E., 205 ft. dist.</p> <p>Thence N. 89° 41' W.,</p> <p>Lode line; discovery point bears N. 0° 46' E., 300 ft. dist.</p> <p>Cor. No. 4, identical with cor. No. 3 of the Kino #10 lode, and on line 3-4 of the Kino #14 lode, both of this survey; from which</p> <p>Drill hole No. 141 bears N. 23° 57' E., 508 ft. dist.</p> <p>Thence N. 0° 46' E.,</p> <p>Wash, 4 ft. wide, course N. 55° E.</p> <p>Wash, 3 ft. wide, course N. 75° E.</p> <p>Road, bears N. 60° E. and S. 80° W.</p> <p>Cor. No. 1 and point of beginning.</p>
<p><b>KINO #12 LODE</b></p>	
<p>830.00</p> <p>1046.25</p> <p>1170.00</p> <p>1200.00</p> <p>1500.00</p> <p>189.72</p>	<p>At cor. No. 1 of Kino #12 lode.</p> <p>Set a 2x36 ins. flanged iron pipe, with a 2½x2½ ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-K12-1; from which</p> <p>The ¼ sec. cor. of secs. 31 and 32, T. 16 S., R. 13 E., G. &amp; S. R. M., a 2 ins. iron pipe, 12 ins. above ground, mkd. ¼ S31-32, bears S. 45° 17' 07" E., 987.47 ft. dist.</p> <p>Thence S. 0° 46' W.</p> <p>Wash, 20 ft. wide, course NE.</p> <p>Intersect line 1-2 of the Fed. No. 27 lode, common with line 4-1 of the Fed. No. 29 lode, both of this survey, at a point from which cor. No. 4 of the Fed. No. 29 lode bears S. 89° 02' 35" W., 189.07 ft. dist., and cor. No. 2 of the Fed. No. 27 lode bears S. 89° 02' 35" W., 489.07 ft. dist.</p> <p>Road, bears NE. and SW.</p> <p>Intersect cor. No. 4 of the Kino #15 lode of this survey.</p> <p>Cor. No. 2, identical with cor. No. 4 of the Kino #14 lode and cor. No. 3 of the Kino #15 lode, both of this survey.</p> <p>Set a 2x36 ins. flanged iron pipe with a 2½x2½ ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-K12-2, K14-4, K15-3.</p> <p>Thence N. 89° 41' W.,</p> <p>Intersect line 3-4 of the Fed. No. 29 lode, of this survey, at a point from which cor. No. 4 bears N. 0° 51' 35" E., 449.28 ft. dist.</p>

## Mineral Survey, No. 4447

CHANGES Feet	
300.00	Lode line; discovery point bears N. $0^{\circ} 46'$ E., 300 ft. dist.
320.00	Road, bears NE. and SW.
385.00	Wash, 10 ft. wide, course N. $85^{\circ}$ E.
600.00	Cor. No. 3, identical with cor. No. 3 of the Kino #11 lode, and on line 3-4 of the Kino #14 lode, both of this survey. Thence N. $0^{\circ} 46'$ E.
1260.00	Wash, 5 ft. wide, course NE.
1500.00	Cor. No. 4, identical with cor. No. 2 of the Kino #11 lode, and on line 3-4 of the Cobre Hondo lode, both of this survey. Thence S. $89^{\circ} 41'$ E.
112.86	Intersect line 2-3 of the Fed. No. 27 lode of this survey at a point from which cor. No. 2 bears S. $0^{\circ} 51' 35''$ W., 1057.41 ft. dist.
200.00	Intersect cor. No. 3 of the Cobre Hondo lode of this survey.
280.00	Wash, 5 ft. wide, course N. $65^{\circ}$ E.
300.00	Lode line; discovery point bears S. $0^{\circ} 46'$ W., 1200 ft. dist.
600.00	Cor. No. 1 and point of beginning.
<b>KINO #14 LODE</b>	
	At cor. No. 1 of Kino #14 lode, identical with cor. No. 2 of the Kino #17 lode of survey No. 4427, on line 2-3 of the Kino #15 lode of this survey.
	Found a 2 ins. L.C.P.; 24 ins. above ground; mkd. USMS 4427-K17-2; replaced with a 2x36 ins. flanged iron pipe, with a $2\frac{1}{2}$ x $2\frac{1}{2}$ ins. plate cap, 24 ins. in the ground, mkd. USMS 4427-K17-2-4447-K14-1; from which
	The cor. of secs. 31 and 32, T. 16 S., R. 13 E., and secs. 5 and 6, T. 17 S., R. 13 E., G. & S. R. M. bears S. $28^{\circ} 50' 48''$ E.; 1431.91 ft. dist., a 5/8 ins. pin reestablished by Pima County Engineer replaced with a 2x36 ins. flanged iron pipe with a $2\frac{1}{2}$ x $2\frac{1}{2}$ ins. plate cap mkd. as above.
	Thence N. $89^{\circ} 41'$ W.
220.00	Wash, 20 ft. wide, course N. $35^{\circ}$ E.
881.00	Road; bears N. $20^{\circ}$ W. and S. $20^{\circ}$ E.
1382.00	Road, bears N. $10^{\circ}$ E. and S. $10^{\circ}$ W.
1500.00	Cor. No. 2, identical with cor. No. 3 of the Kino #17 lode, cor. No. 3 of the Kino #16 lode, and cor. No. 3 of the Kino #13 lode, all of survey No. 4427. Found a 2 ins. L.C.P., 28 ins. above ground, mkd. USMS 4427-K17-3-K16-3-K13-3; added mks. 4447-K14-2.

12

Feet		
		Thence N. 0° 47' 30" E.
25.00	Road, bears E. and W.	
300.00	Lode line; discovery point bears S. 89° 41' E., 300 ft. dist.	
600.00	Cor. No. 3, identical with cor. No. 4 of the Kino #13 lode of survey No. 4427, and on line 3-4 of the Kino #10 lode of this survey.	
	Found a 2 ins. L.C.P., 28 ins. above ground, mkd. USMS 4427-K13-4; added mks. 4447-K14-3; from which	
	Drill hole No. 133 bears S. 60° 26' E., 290 ft. dist.	
		Thence S. 89° 41' E.
181.00	Road, bears N. and S.	
300.00	Intersect cor. No. 3 of the Kino #10 lode, identical with cor. No. 4 of the Kino #11 lode, both of this survey.	
900.00	Intersect cor. No. 3 of the Kino #11 lode, identical with cor. No. 3 of the Kino #12 lode, both of this survey.	
1180.00	Road, bears NE. and SW.	
1310.28	Intersect line 3-4 of the Fed. No. 29 lode of this survey at a point from which cor. No. 3 bears S. 0° 51' 35" W., 150.72 ft. dist.	
1500.00	Cor. No. 4, identical with cor. No. 2 of the Kino #12 lode, and cor. No. 3 of the Kino #15 lode of this survey.	
		Thence S. 0° 47' 30" W.
146.52	Intersect line 2-3 of the Fed. No. 29 lode at a point from which cor. No. 2 bears N. 89° 02' 35" E., 710.01 ft. dist.	
290.00	Wash, 18 ft. wide, course N. 30° E.	
300.00	Lode line; discovery point bears N. 89° 41' W., 1200 ft. dist.	
570.00	Road, bears E. and W.	
600.00	Cor. No. 1 and point of beginning.	

MISSION #1 LODE

Cor. No. 1 of the Mission #1 lode, on line 1-2 of the Mission #2 lode of this survey, falls at edge of travelled road; from which

The sec. cor. of secs. 31 and 32, T. 16 S., R. 13 E. and secs. 5 and 6, T. 17 S., R. 13 E., G. & S. R. M., bears S. 85° 36' 27" E., 709.51 ft. dist., from which

Drill hole No. 165 bears N. 69° 29' W., 765 ft. dist.

Thence N. 89° 41' W.

## Mineral Survey No. 4447

11

Feet	
791.81	Intersect cor. No. 2 of the Mission #2 lode of this survey.
1497.60	Intersect line 3-4 of the Alpha No. 28 lode of survey No. 4402 at a point from which cor. No. 3 bears N. 0° 41' 45" E., 480 ft. dist.
1500.00	Cor. No. 2. Set a 2x36 ins. flanged iron pipe with a 2½x2½ ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-M1-2; from which Cor. No. 4 of the Alpha No. 28, Sur. No. 4402, bears S. 0° 24' 00" E., 120 ft. dist. Thence N. 0° 47' 30" E.
15.00	Water line, bears E. and W.
25.00	Power line, bears E. and W.
300.00	Lode line; discovery point bears S. 89° 41' E., 300. ft. dist.
372.00	Road, intersection, roads bear N. 30° E., N. 10° E. and S. 30° W.
480.00	Intersect cor. No. 1 of the Fed No. 34 lode of this survey and line 2-3 of the Alpha No. 28 lode of Sur. No. 4402 at a point from which cor. No. 3 bears S. 89° 41' E., 160 ft. dist.
600.00	Cor. No. 3, identical with cor. No. 4 of Kino #17 lode and cor. No. 4 of the Kino #16 lode, both of survey No. 4427, and cor. No. 4 of the Fed. No. 34 lode of this survey. Found a 2 ins. L.C.P. 20 ins. above ground, mkd. USMS 4427-K17-4-K16-4; added mks. 4447-F34-4-M1-3. Thence S. 89° 41' E.
35.00	Road, bears N. and S.
220.00	Road, bears NE. and SW.
708.90	Intersect cor. No. 3 of the Mission #2 lode of this survey.
864.00	Wash, 30 ft. wide, course NE.
1500.00	Cor. No. 4, identical with cor. No. 2 of the Kino #15 lode of this survey and cor. No. 1 of the Kino #17 lode of survey No. 4427. Found a 2 ins. L.C.P. 26 ins. above ground, mkd. USMS 4427-K17-1; replaced with a 2x36 ins. flanged iron pipe, with a 2½x2½ ins. plate cap, 24 ins. in the ground, mkd. USMS 4427-K17-1-4447-M1-4-K15-2. Thence S. 0° 47' 30" W.
152.00	Wash, 19 ft. wide, course NE.
300.00	Lode line; discovery point bears N. 89° 41' W., 1200 ft. dist.
554.00	Power line, bears E. and W.
564.00	Water line, bears E. and W.

580.00	Set a 2x36 ins. flanged iron pipe, with a 2½x2½ ins. plate cap, 24 ins. in the ground, for a witness corner to cor. No. 1, mkd. USMS WC 4447-M1-1.
600.00	True point for cor. No. 1 and point of beginning.
<b>FED. NO. 26 LODE</b>	
At cor. No. 1, identical with cor. of secs. 29, 30, 31 and 32, T. 16 S., R. 13 E., G. & S. R. M.	
Found a 2 ins. brass capped pipe, 12 ins. above ground, firmly set and mkd. as described in the official record; from which	
Drill hole No. 195 bears S. 15° 24' W., 848.5 ft. dist.	
Thence S. 0° 51' 35" W.	
4.50	Power line, bears E. and W.
5.00	Set a 2x36 ins. flanged iron pipe with a 2½x2½ ins. plate cap, 24 ins. in the ground, for witness cor. to cor. No. 1, mkd. USMS WC 4447-F26-1.
50.00	Road, bears E. and W.
100.00	Right-of-way, Pima Mine Road, bears E. and W.
275.00	Wash, 20 ft. wide, course N. 80° E.
821.00	Wash, 25 ft. wide, course NE.
835.00	Road, bears NW. and SE.
1177.00	Wash, 5 ft. wide, course NE.
1500.00	Cor. No. 2, identical with cor. No. 4 of the Fed. No. 28 lode of this survey.
Set a 2x36 ins. flanged iron pipe, with a 2½x2½ ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-F26-2-F28-4; from which	
Drill hole No. 193, bears S. 33° 50' W., 337 ft. dist.	
Thence S. 89° 02' 35" W.	
240.00	Wash, course N. 35° E.
300.00	Lode line; discovery point bears N. 0° 51' 35" E., 10 ft. dist.
600.00	Cor. No. 3, identical with cor. No. 2 of the Fed. No. 25 lode, cor. No. 4 of the Fed. No. 27 lode and cor. No. 3 of the Fed. No. 28 lode of this survey.
Set a 2x36 ins. flanged iron pipe with a 2½x2½ ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-F26-3-F25-2-F27-4-F28-3; from which	

Mineral Survey No. 4447

XXXXX Feet	Drill hole No. 197 bears N. 15° 03' W., 503 ft. dist. Thence N. 0° 51' 35" E.	300.00
335.00	Wash, 20 ft. wide, course N. 55° E.	30.00
622.00	Road, bears N. 65° E. and S. 65° W.	600.00
900.00	Wash, 22 ft. wide, course N. 50° E.	
1277.00	Wash, 20 ft. wide, course NE.	
1400.00	Right-of-way, Pima Mine Road, bears E. and W.	
1450.00	Road, bears E. and W.	
1495.00	Power line, bears E. and W.	
1500.00	Cor. No. 4, identical with cor. No. 1 of the Fed. No. 25 lode. Set a 2x36 ins. flanged iron pipe with a 2½x2½ ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-F26-4-F25-1; from which Drill hole No. 8 bears S. 1° 21' W., 880 ft. dist. Thence N. 89° 02' 35" E.	
300.00	Lode line; discovery point bears S. 0° 51' 35" W., 1490 ft. dist., falls in wash, course NE.	
305.00	Wash, 14 ft. wide, course N. 60° E.	
600.00	Cor No. 1 and point of beginning.	
<b>FED. NO. 25 LODE</b>		
	Beginning at cor. No. 1 of the Fed. No. 25 lode, identical with cor. No. 4 of the Fed. No. 26 lode; from which The cor. of secs. 29, 30, 31 and 32, T. 16 S., R. 03 E., bears N. 89° 02' 35" E., 600 ft. dist., previously described. Thence S. 0° 51' 35" W.	
5.00	Power line, bears E. and W.	
50.00	Road, bears E. and W.	
100.00	Right-of-way, Pima Mine Road, bears E. and W.	
223.00	Wash, 20 ft. wide, course NE.	
600.00	Wash, 22 ft. wide, course N. 50° E.	
878.00	Road, bears N. 65° E. and S. 65° W.	
1165.00	Wash, 20 ft. wide, course N. 55° E.	
1500.00	Cor. No. 2, identical with cor. No. 3 of the Fed. No. 26 lode, cor. No. 3 of the Fed. No. 28 lode and cor. No. 4 of the Fed. No. 27 lode, all of this survey; from which	

Chains Feet	
	Thence S. 89° 02' 35" W.
300.00	Lode line; discovery point bears N. 0° 51' 35" E., 10 ft. dist.
513.80	Intersect line 2-3 of the Cobre Hondo lode of this survey at a point from which cor. No. 2 bears N. 0° 44' E., 1055.49 ft. dist.
600.00	Cor. No. 3, identical with cor. No. 3 of the Fed. No. 27 lode of this survey.
	Set a 2x36 ins. flanged iron pipe with a 2½x2½ ins. plate, 24 ins. in the ground, mkd. USMS 4447-F25-3-F27-3; from which
	Drill hole No. 201 bears S. 26° 44' E., 361 ft. dist.
	Thence N. 0° 51' 35" E.
130.00	Wash, 10 ft. wide, course N. 70° E.
422.00	Wash, 50 ft. wide, course N. 50° E.
609.00	Road, bears N. 74° E. and S. 74° W.
990.00	Wash, 14 ft. wide, course N. 85° E.
1057.42	Intersect line 1-2 of the Cobre Hondo lode of this survey, at a point from which cor. No. 2 bears S. 89° 41' E., 83.82 ft. dist.
1057.42	Intersect line 3-4 of the Fed. No. 24 lode of this survey, at a point from which cor. No. 3 bears S. 89° 41' E., 3.82 ft. dist.
1282.00	Wash, 5 ft. wide, course N. 55° E.
1400.00	Right-of-way, Pima Mine Road, bears E. and W.
1450.00	Road, bears E. and W.
1495.00	Power line, bears E. and W.
1500.00	Cor. No. 4, on line 1-2 of the Fed. No. 24 lode of this survey.
	Set a 2x36 ins. flanged iron pipe with a 2½x2½ ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-F25-4.
	Thence N. 89° 02' 35" E.
2.85	Intersect cor. No. 2 of the Fed. No. 24 lode of this survey.
300.00	Lode line; discovery point bears S. 0° 51' 35" W., 1490 ft. dist.
600.00	Cor. No. 1 and point of beginning.

FED. NO. 28 LODE

At cor. No. 1, identical with cor. No. 1 of the Fed. No. 29 lode of this survey.

Set a 2x36 ins. flanged iron pipe with a 2½x2½ ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-F28-1-F29-1; from which



Mineral Survey No. 4447

Feet		Feet
	The ¼ sec. cor. of secs. 31 and 32, T. 16 S., R. 13 E., bears N. 0° 51' 35" E., 340.13 ft. dist.	
	Thence S. 89° 02' 35" W.	
300.00	Lode line; discovery point bears N. 0° 51' 35" E., 1490 ft. dist.	
382.00	Wash, 18 ft. wide, course N. 25° E.	
600.00	Cor. No. 2, identical with cor. No. 1 of the Fed. No. 27 lode of this survey.	
	Set a 2x36 ins. flanged iron pipe with a 2½x2½ ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-F28-2-F27-1.	
	Thence N. 0° 51' 35" E.	
32.00	Road, bears NE. and SW.	
330.00	Wash, 22 ft. wide, course N. 55° E.	
1120.00	Road, bears N. 80° W. and S. 80° E.	
1398.00	Wash, 5 ft. wide, course NE.	
1500.00	Cor. No. 3, identical with cor. No. 4 of the Fed. No. 27 lode, cor. No. 2 of the Fed. No. 25 lode and cor. No. 3 of the Fed. No. 26 lode, all of this survey.	
	Thence N. 89° 02' 35" E.	
300.00	Lode line; discovery point bears S. 0° 51' 35" E., 10 ft. dist.	
360.00	Wash, course N. 35° E.	
600.00	Cor. No. 4, identical with cor. No. 2 of the Fed. No. 26 lode of this survey; from which	
	Thence S. 0° 51' 35" W.	
663.00	Wash, 35 ft. wide, course NE.	
1159.87	Intersect the ¼ sec. cor. of secs. 31 and 32, T. 16 S., R. 13 E.	
	Found a 2x36 ins. flanged iron pipe, with 2½x2½ ins. plate cap, 12 ins. above ground, mkd. ¼ S31 and S32.	
1500.00	Cor. No. 1 and point of beginning.	
<b>FED. NO. 27 LODE</b>		
	Beginning at cor. No. 1, identical with cor. No. 2 of the Fed. No. 28 lode of this survey; from which	
	The ¼ sec. cor. of secs. 31 and 32, T. 16 S., R. 13 E., bears N. 59° 56' 25" E., 698.92 ft. dist.	
	Thence S. 89° 02' 35" W.	
10.00	Road, bears NE. and SW.	

Feet	
110.93	Intersect line 1-2 of the Kino #12 lode at a point from which cor. No. 1 bears N. 0° 46' E., 1046.52 ft. dist.
300.00	Lode line; identical with cor. No. 4 of the Fed. No. 29 lode of this survey; discovery point bears N. 0° 51' 35" E., 1490 ft. dist.
530.00	Wash, 16 ft. wide, course N. 85° E.
600.00	Cor. No. 2 Set a 2x36" flanged iron pipe with a 2½x2½ ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-F27-2. Thence N. 0° 51' 35" E.
935.00	Wash, 5 ft. wide, course NE.
1057.41	Intersect line 1-4 of the Kino No. 12 lode of this survey at a point from which cor. No. 1 bears S. 89° 41' E., 487.14 ft. dist., identical with line 3-4 of the Cobre Hondo lode, at a point from which cor. No. 3 bears S. 89° 41' E., 87.14 ft. dist.
1210.00	Road, bears E. and W.
1500.00	Cor. No. 3, identical with cor. No. 3 of the Fed. No. 25 lode of this survey. Thence N. 89° 02' 35" E.
86.20	Intersect line 2-3 of the Cobre Hondo lode of this survey at a point from which cor. No. 3 bears S. 0° 44' W., 444.51 ft. dist.
300.00	Lode line; discovery point bears S. 0° 51' 35" W., 10 ft. dist.
600.00	Cor. No. 4, identical with cor. No. 2 of the Fed. No. 25 lode, cor. No. 3 of the Fed. No. 26 lode and cor. No. 3 of the Fed. No. 28 lode, all of this survey. Thence S. 0° 51' 35" W.
102.00	Wash, 5 ft. wide, course NE.
380.00	Road, bears N. 80° W. and S. 80° E.
1170.00	Wash, 22 ft. wide, course N. 55° E.
1468.00	Road, bears NE. and SW.
1500.00	Cor. No. 1 and point of beginning.

## FED. NO. 29 LODE

Beginning at cor. No. 1 of the Fed. No. 29 lode, identical with cor. No. 1 of the Fed. No. 28 lode of this survey; from which

The ¼ sec. cor. of secs. 31 and 32, T. 16 S., R. 13 E., bears N. 0° 51' 35" E., 340.13 ft. dist.

Thence S. 0° 51' 35" W.

## Mineral Survey No. 4447

17

Feet	
300.00	Lode line; discovery point bears S. 89° 02' 35" W., 75 ft. dist.
600.00	Cor. No. 2, identical with cor. No. 4 of the Fed. No. 30 lode of this survey. Set a 2x36 ins. flanged iron pipe, with a 2½x2½ ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-F29-2-F30-4; from which Drill hole No. 225, bears S. 77° 43' W., 68 ft. dist. Thence S. 89° 02' 35" W.
109.86	Intersect line 5-1 of the Kino #15 lode of this survey at a point from which cor. No. 5 bears N. 0° 47' 11" E., 433.18 ft. dist.
220.00	Cor. No. 3 of the Fed No. 30 lode of this survey.
646.00	Wash, 15 ft. wide, course N. 30° E.
710.01	Intersect line 1-4 of the Kino #14 lode, common with line 2-3 of the Kino #15 lode, both of this survey, at a point from which cor. No. 4 of the Kino #14 lode and cor. No. 3 of the Kino #15 lode, and cor. No. 2 of the Kino #12 lode, bears N. 0° 47' 30" E., 146.52 ft. dist.
900.00	Cor. No. 3. Set a 2x36 ins. flanged iron pipe with a 2½x2½ ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-F29-3. Thence N. 0° 51' 35" E.
150.72	Intersect line 2-3 of the Kino #12 lode, identical with line 3-4 of the Kino #14 lode of this survey, at a point from which cor. No. 2 of the Kino #12 lode, identical with cor. No. 4 of the Kino #14 lode, and cor. No. 3 of the Kino #15 lode, bears S. 89° 41' E., 189.72 ft. dist.
300.00	Lode line; discovery point bears N. 89° 02' 35" E., 825.00 ft. dist., falls in road, bearing NE. and SW.
600.00	Cor. No. 4, on line 1-2 of the Fed. No. 27 lode of this survey. Set a 2x36 ins. flanged iron pipe with a 2½x2½ ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-F29-4; from which Drill hole No. 192 bears S. 86° 40' E., 294 ft. dist. Thence N. 89° 02' 35" E.
189.07	Intersect line 1-2 of the Kino #12 lode, at a point from which cor. No. 2 bears S. 0° 46' W., 453.75 ft. dist.
290.00	Road, bears NE. and SW.
300.00	Intersect cor. No. 1 of the Fed. No. 27 lode, identical with cor. No. 2 of the Fed. No. 28 lode, both of this survey.
518.00	Wash, 18 ft. wide, course N. 25° E.
900.00	Cor. No. 1 and point of beginning.

Feet	
	<b>FED. NO. 30 LODE</b>
	At cor. No. 1 of the Fed. No. 30 lode, set a 2x36 ins. flanged iron pipe with a 2½x2½ ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-F30-1; from which
	The SE. cor. of a Pima Mine Powder House, 60x60 ft. bears N. 17° 40' W., 360 ft. dist.
	The SE. cor. of a Pima Mine Powder House, 75x75 ft. bears N. 38° 03' W., 228 ft. dist.
	The cor. of secs. 5, 6, 31 and 32, Tps. 16 and 17 S., R. 13 E., bears S. 0° 51' 35" W., 519.7½ ft. dist.
	Thence S. 89° 02' 35" W.
70.00	Road, bears N. and S.
110.00	Lode line; discovery point bears N. 0° 51' 35" E., 1190 ft. dist.
220.00	Cor. No. 2.
	Set a 2x36 ins. flanged iron pipe with a 2½x2½ ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-F30-2.
	N. 0° 51' 35" E.
135.61	Intersect line 1-2 of the Kino #15 lode, common with line 3-4 of the Mission #2 lode, both of this survey, at a point from which cor. No. 1 of the Kino #15 lode bears S. 89° 41' E., 111.46 ft. dist., and cor. No. 4 of the Mission #2 lode bears S. 89° 41' E., 220.36 ft. dist.
579.00	Wash, 32 ft. wide, course NE.
1200.00	Cor. No. 3, on line 2-3 of the Fed. No. 29 lode of this survey.
	Set a 2x36 ins. flanged iron pipe with a 2½x2½ ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-F30-3.
	Thence N. 89° 02' 35" E.
110.00	Lode line; discovery point bears S. 0° 51' 35" W., 10 ft. dist.
110.14	Intersect line 5-1 of the Kino #15 lode at a point from which cor. No. 1 bears S. 0° 47' 11" W., 1066.82 ft. dist.
220.00	Cor. No. 4, identical with cor. No. 2 of the Fed. No. 29 lode of this survey.
	Thence S. 0° 51' 35" W.
222.00	Road, bears SW. and NE.
488.00	Wash, 30 ft. wide, course N. 80° E.
1069.30	Intersect cor. No. 4 of the Mission #2 lode of this survey.
1200.00	Cor. No. 1 and point of beginning.

Mineral Survey No. 4447

Feet	KINO #15 LODE
	At cor. No. 1 of the Kino #15 lode. Set a 2x36 ins. flanged iron pipe with a 2½x2½ ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-K15-1; from which Cor. of secs. 31 and 32, T. 16 S., R. 13 E. and secs. 5 and 6, T. 17 S., R. 13 E., G. & S. R. M., bears S. 8° 39' 34" E., 658.48 ft. dist.
	Thence N. 89° 41' W.
111.46	Intersect line 2-3 of the Fed. No. 30 lode of this survey at a point from which cor. No. 2 bears S. 0° 51' 35" W., 135.61 ft. dist.
300.00	Lode line; discovery point bears N. 0° 47' 11" E., 300 ft. dist.
398.00	Wash, 22 ft. wide, course NE.
574.00	Road, bears N. and S.
600.00	Cor. No. 2, identical with cor. No. 1 of the Kino #17 lode of survey No. 4427 and cor. No. 4 of the Mission #1 lode of this survey; from which Drill hole No. 146 bears N. 46° E., 392 ft. dist. Thence N. 0° 47' 30" E.
600.00	Intersect cor. No. 2 of the Kino #17 lode of survey No. 4427, identical with cor. No. 1 of the Kino #14 lode of this survey.
630.00	Road, bears E. and W.
910.00	Wash, 18 ft. wide, course N. 30° E.
1053.48	Intersect line 2-3 of the Fed. No. 29 lode of this survey at a point from which cor. No. 3 bears S. 89° 02' 35" W., 189.99 ft. dist.
1200.00	Cor. No. 3, identical with cor. No. 4 of the Kino #14 lode and cor. No. 2 of the Kino #12 lode of this survey. Thence N. 0° 46' E.
1300.00	Cor. No. 4, on line 1-2 of the Kino #12 lode of this survey. Set a 2x36 ins. flanged iron pipe, with a 2½x2½ ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-K15-4. Thence S. 89° 41' E.
300.00	Lode line; discovery point bears S. 0° 47' 11" W., 1200 ft. dist.
340.00	Wash, 60 ft. wide, course N.
600.00	Cor. No. 5. Set a 2x36 ins. flanged iron pipe, with a 2½x2½ ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-K15-5. Thence S. 0° 47' 11" W.

Chains Feet	
433.18	Intersect line 2-3 of the Fed. No. 29 lode, identical with line 3-4 of the Fed. No. 30 lode, both of this survey, at a point from which cor. No. 2 of the Fed. No. 29 lode, identical with cor. No. 4 of the Fed. No. 30 lode, bears N. 89° 02' 35" E., 109.86 ft. dist.
962.00	Wash, 18 ft. wide, course N. 70° E.
1500.00	Cor. No. 1 and point of beginning.
<b>MISSION #2 LODE</b>	
63.00	At cor. No. 1 of the Mission #2 lode.
	Set a 2x36 ins. flanged iron pipe with a 2½x2½ ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-M2-1; from which Cor. of secs. 31 and 32, T. 16 S., R. 13 E. and secs. 5 and 6, T. 17 S., R. 13 E., B. & S. R. M., bears S. 0° 51' 35" W., 50.44 ft. dist.
708.19	Road, bears N. and S.
	Thence N. 89° 41' W.
708.19	Intersect true point for cor. No. 1 of the Mission #1 lode of this survey.
1500.00	Cor. No. 2, on line 1-2 of the Mission #1 lode of this survey. Set a 2x36 ins. flanged iron pipe, with a 2½x2½ ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-M2-2. Thence N. 00° 51' 35" E.
25.00	Water line, bears E. and W.
35.00	Power line, bears E. and W.
300.00	Lode line; discovery point bears S. 89° 41' E., 300 ft. dist.
415.00	Wash, 45 ft. wide, course N. 40° E.
600.00	Cor. No. 3, on line 3-4 of the Mission #1 lode of this survey and line 4-1 of the Kino #17 lode of Sur. No. 4427. Set a 2x36 ins. flanged iron pipe with a 2½x2½ ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-M2-3. Thence S. 89° 41' E.
155.00	Wash, 44 ft. wide, course NE.
791.10	Intersect cor. No. 1 of the Kino #17 lode of survey No. 4427, identical with cor. No. 2 of the Kino #15 lode and cor. No. 4 of the Mission #1 lode, both of this survey.
817.00	Road, bears N. and S.
993.00	Wash, 22 ft. wide, course NE.

## Mineral Survey No. 4447

21

Feet	
1279.64	Intersect line 2-3 of the Fed. No. 30 lode of this survey at a point from which cor. No. 2 bears S. 0° 51' 35" W., 135.61 ft. dist.
1391.10	Intersect cor. No. 1 of the Kino #15 lode of this survey.
1425.00	Road, bears N. and S.
1500.00	Cor. No. 4, on line 4-1 of the Fed. No. 30 lode of this survey. Set a 2x36 ins. flanged iron pipe, with a 2½x2½ ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-M2-4; from which Drill hole No. 5 bears S. 69° 33' W., 233 ft. dist. Thence S. 0° 51' 35" W.
130.70	Intersect cor. No. 1 of the Fed. No. 30 lode of this survey.
300.00	Lode line; discovery point bears N. 89° 41' W., 1200 ft. dist.
544.00	Power line, bears E. and W.
554.00	Water line, bears E. and W.
600.00	Cor. No. 1 and point of beginning:
	<b>FED. NO. 34 LODE</b>
	At cor. No. 1 of the Fed. No. 34 lode, on line 2-3 of the Mission #1 lode of this survey, common to line 2-3 of the Alpha No. 28 lode of survey No. 4402.
	Set a 2x36 ins. flanged iron pipe, with a 2½x2½ ins. plate cap, 24 ins. in the ground, mkd. USMS 4447-F34-1; from which The cor. of secs. 5, 6, 31 and 32, Tps. 16 and 17 S., R. 13 E., bears S. 76° 09' 01" E., 2266.68 ft. dist. Thence N. 89° 41' W.
965.00	Road, bears N. and S.
1248.40	Set a 2x36 ins. flanged iron pipe, with a 2½x2½ ins. plate cap, 24 ins. in the ground, for a witness cor. to cor. No. 2, mkd. USMS 4447-F34-2.
1348.00	Toe of slope, Pima Mining Co. tailing dump.
1498.40	True point for cor. No. 2, identical with cor. No. 2 of the Alpha No. 28 lode, cor. No. 3 of the Alpha No. 25 lode and cor. No. 4 of the Alpha No. 24 lode, all of survey No. 4402. Thence N. 0° 47' 30" E.
60.00	Lode line; discovery point bears S. 89° 41' E., 1488.40 ft. dist.
120.00	Point for cor. No. 3, at the intersection of line 3-4 of the Alpha No. 24 lode of Survey No. 4402 and line 4-1 of the Kino #16 lode of survey No. 4427. Thence S. 89° 41' E.

24

Mineral Survey No. 4447

150.00	Toe of slope, Pima Mining Co. tailings dump.
250.00	Set a 2x36 ins. flanged iron pipe with a 2 1/2 x 2 1/2 ins. plate cap, 24 ins. in the ground for witness cor. to cor. No. 3, mkd. USMS WC 4447 F34-3.
533.00	Road, bears N. and S.
1498.40	Cor. No. 4, identical with cor. No. 4 of the Kino #16 lode and cor. No. 4 of the Kino #17 lode, both of survey No. 4427, and cor. No. 3 of the Mission #1 lode of this survey; from which Drill hole No. 140 bears S. 11° 21' W., 60 ft. dist. Thence S. 0° 47' 30" W. Thence S. 0° 51' 32" W.
60.00	Lode line; discovery point bears N. 89° 41' W., 10 ft. dist.
120.00	Cor. No. 1 and point of beginning.

AREAS  
Acres

Total area, Fed. No. 24 lode	10.098
Total area, Cobre Hondo No. 2 lode	20.661
Total area, Cobre Hondo No. 1 lode	15.495
Total area, Cobre Hondo lode	15.495
Total area, Kino #10 lode	20.661
Total area, Kino #11 lode	20.661
Total area, Kino #12 lode	20.661
Total area, Kino #14 lode	20.660
Total area, Mission #1 lode	20.660
Area in conflict with-- Mission #2 lode	10.901
Survey No. 4402, Alpha No. 28 lode	0.022
Total area, Fed. No. 26 lode	20.650
Total area, Fed. No. 25 lode	20.650
Area in conflict with-- Fed. No. 24 lode	0.034
Cobre Hondo lode	2.061
Total area, Fed. No. 28 lode	20.650
Total area, Fed. No. 27 lode	20.650
Area in conflict with-- Cobre Hondo lode	0.883
Kino #12 lode	11.785
Total area, Fed. No. 29 lode	12.390
Area in conflict with-- Kino #12 lode	1.962
Kino #14 lode	0.648
Total area, Fed. No. 30 lode	6.058
Total area, Kino #15 lode	20.659
Area in conflict with-- Fed. No. 29 lode	6.058
Fed. No. 30 lode	2.710
Total area, Mission #2 lode	20.658
Area in conflict with-- Mission #1 lode	10.901
Fed. No. 30 lode	0.672
Total area, Fed. No. 34 lode	4.128



## Mineral Survey No. 4447

23

Kind Feet	LOCATION	Value
	This survey is located in section 31; T. 16 S.; R. 13 E., G. & S. R. Meridian, Arizona.	
	<b>EXPENDITURES</b>	
No. 1	The discovery cut of the Fed. No. 24 lode, the face of which being the discovery point is on the lode line, 10 ft. from a point on line 2-3, 300 ft. from cor. No. 2, 8x16x8 ft. deep. Value, \$50.	
No. 2	Drill hole No. 187, 4½ ins. X 250 ft. deep, bears N. 58° 17' E., 199 ft. dist. from cor. No. 4 of the Fed. No. 24 lode. Value, \$900.	
No. 1	The discovery cut of the Cobre Hondo No. 2 lode, the face of which is 110 ft. westerly from the point of discovery, which point is on the lode line, 650 ft. from a point on line 1-2, 300 ft. from cor. No. 1, 45x6x6 ft. deep. Value, \$50.	
No. 2	Drill hole No. 115, 4½ ins. X 363 ft. deep, bears S. 35° 47' E., 177 ft. dist. from cor. No. 1 of the Cobre Hondo No. 2 lode. Value, \$2300.	
No. 1	The discovery cut of the Cobre Hondo No. 1 lode, the face bearing S. 53° 10' E., 235 ft. dist. from the point of discovery, which point is on the lode line 700 ft. from a point on line 1-2, 225 ft. from cor. No. 1, 8x20x8 ft. deep. Value, \$50.	
No. 2	Drill hole No. 190, 4½ ins. X 256 ft. deep, bears S. 17° 12' W., 608 ft. dist. from cor. No. 2 of the Cobre Hondo No. 1 lode. Value, \$1000.	
No. 1	The discovery cut of the Cobre Hondo lode, the face of which is 71 ft. easterly from the point of discovery, which point is 750 ft. from a point on line 1-2, 225 ft. from cor. No. 1, 8x18x8 ft. deep. Value, \$50.	
No. 2	Drill hole No. 191, 4½ ins. X 270 ft. deep, bears N. 47° 14' E., 176 ft. dist. from cor. No. 4 of Cobre Hondo lode. Value, \$1100.	
No. 1	The discovery cut of the Kino #10 lode, the face of which being the discovery point is on the lode line 300 ft. from a point on line 3-4, 300 ft. from cor. No. 3, 9x20x9 ft. deep. Value, \$50.	
No. 2	Drill hole No. 132, 4½ ins. X 793 ft. deep, bears N. 20° 45' E., 177 ft. dist. from cor. No. 4 of the Kino #10 lode. Value, \$6000.	
No. 1	The discovery cut of the Kino #11 lode, the face of which being the discovery point is on the lode line, 300 ft. from a point on line 3-4, 300 ft. from cor. No. 3, 8x19x8 ft. deep. Value, \$50.	

No.	Description	Dist. from cor.
No. 2	Drill hole No. 141, 4½ ins. X 303 ft. deep, bears N. 23° 57' E., 508 ft. dist. from cor. No. 4 of the Kino #11 lode. Value, \$1500.	508
No. 1	The discovery cut of the Kino #12 lode, the face of which being the discovery point is on the load line 300 ft. from a point on line 2-3, 300 ft. from cor. No. 2, 8x18x8 ft. deep. Value, \$50.	
No. 2	Drill hole No. 145, 4½ ins. X 306 ft. deep bears N. 32° 17' E., 205 ft. dist. from cor. No. 3 of the Kino #12 lode. Value, \$1500.	205
No. 1	The discovery cut of the Kino #14 lode, the face of which being the discovery point is on the lode line, 300 ft. from a point on line 2-3, 300 ft. from cor. No. 2; 8x20x9 ft. deep. Value, \$50.	
No. 2	Drill hole No. 133, 4½ ins. X 532 ft. deep, bears S. 60° 26' E., 290 ft. dist. from cor. No. 3 of the Kino #14 lode. Value, \$3500.	290
No. 1	The discovery cut of the Mission #1 lode, the face of which being the discovery point is on the lode line, 300 ft. from a point on line 2-3, 300 ft. from cor. No. 2; 8x18x8 ft. deep. Value, \$50.	
No. 2	Drill hole No. 165, 4½ ins. X 303 ft. deep, bears N. 69° 29' W., 765 ft. dist. from cor. No. 1 of the Mission #1 lode. Value, \$1900.	765
No. 1	The discovery cut of the Fed. No. 26 lode, the face of which being the discovery point is on the lode line 10 ft. from a point on line 2-3, 300 ft. from cor. No. 2; 8x19x7 ft. deep. Value, \$50.	
No. 2	Drill hole No. 195, 4½ ins. X 271 ft. deep, bears S. 15° 24' W., 848.5 ft. dist. from cor. No. 1 of the Fed. No. 26 lode. Value, \$1000.	848.5
No. 1	The discovery cut of the Fed. No. 25 lode, the face of which being the discovery point is on the lode line 10 ft. from a point on line 2-3, 300 ft. from cor. No. 2; 8x18x8 ft. deep. Value, \$50.	
No. 2	Drill hole No. 8, 4½ ins. X 244 ft. deep, bears S. 1° 21' W., 880 ft. dist. from cor. No. 1 of the Fed. No. 25 lode. Value, \$575.	880
No. 3	Drill hole No. 197, 4½ ins. X 272 ft. deep, bears N. 15° 03' W., 503 ft. dist. from cor. No. 2 of the Fed. No. 25 lode. Value, \$1000.	503
No. 1	The discovery cut of the Fed. No. 28 lode, the face of which being the discovery point, is on the lode line 10 ft. from a point on line 3-4, 300 ft. from cor. No. 3, 8x20x9 ft. deep. Value, \$50.	
No. 2	Drill hole No. 193, 4½ ins. X 251 ft. deep, bears S. 33° 50' W., 337 ft. dist. from cor. No. 4 of the Fed. No. 28 lode. Value, \$900.	337

Feet	
No. 1	The discovery cut of the Fed. No. 27 lode, the face of which being the discovery point, is on the lode line 10 ft. from a point on line 3-4, 300 ft. from cor. No. 3; 8x20x8 ft. deep. Value, \$50.
No. 2	Drill hole No. 201, 4½ ins. X 281 ft. deep, bears S. 26° 44' E., 361 ft. dist. from cor. No. 3 of the Fed. No. 27 lode. Value, \$1000.
No. 1	The discovery cut of the Fed. No. 29 lode, the face of which being the discovery point is on the lode line, 75 ft. from a point on line 1-2, 300 ft. from cor. No. 1; 8x19x9 ft. deep. Value, \$50.
No. 2	Drill hole No. 192, 4½ ins. X 251 ft. deep, bears S. 86° 40' E., 294 ft. dist. from cor. No. 4 of the Fed. No. 29 lode. Value, \$900.
No. 1	The discovery cut of the Fed. No. 30 lode, the face of which being the discovery point is on the lode line 105 ft. from a point on line 3-4, 110 ft. from cor. No. 3, 8x20x7 ft. deep. Value, \$50.
No. 2	Drill hole No. 225, 5 ins. X 250 ft. deep, bears S. 77° 43' W., 68 ft. dist. from cor. No. 4 of the Fed. No. 30 lode. Value, \$650.
No. 1	The discovery cut of the Kino #15 lode, the face of which being the discovery point is on the lode line 300 ft. from a point on line 1-2, 300 ft. from cor. No. 1, 8x18x7 ft. deep. Value, \$50.
No. 2	Drill hole No. 146, 4½ ins. X 393 ft. deep, bears N. 46° E., 392 ft. dist. from cor. No. 2 of the Kino #15 lode. Value, \$2200.
No. 1	The discovery cut of the Mission #2 lode, the face of which being the discovery point is on the lode line 300 ft. from a point on line 2-3, 300 ft. from cor. No. 2; 9x17x8 ft. deep. Value, \$50.
No. 2	Drill hole No. 5, 4½ ins. X 258.5 ft. deep, bears S. 69° 33' W., 233 ft. dist. from cor. No. 4 of the Mission #2 lode. Value, \$675.
No. 1	The discovery cut of the Fed. No. 34 lode, the face of which being the discovery point is on the lode line, 10 ft. from a point on line 4-1, 60 ft. from cor. No. 4; 8x20x7 ft. deep. Value, \$50.
No. 2	Drill hole No. 140, 4½ ins. X 1493 ft. deep, bears S. 11° 21' W., 60 ft. dist. from cor. No. 4 of the Fed. No. 34 lode. Value, \$13,000.

## OTHER CORNER DESCRIPTIONS

which  
All corners of Survey No. 4427/ are common to this survey are 2 ins. lead capped pipes, as previously described in the field notes for this survey.

Chains

Corners No. 3 and No. 4 of Alpha No. 28 lode of Survey No. 4402 are 3/4 in. pipes set in concrete with a brass cap properly marked.

Corner No. 2 of Alpha No. 28 lode of Survey No. 4402, and corner No. 1 of Kino #16 lode of Survey No. 4427 are covered by Pima Mine tailings pile.

FIELD ASSISTANTS

Name	Capacity
Joseph Walden	Chainman
Clyde E. Way	Chainman

No.	Description	Value
No. 2	Drill hole No. 102, 4 in. x 251 ft. deep, bears S. 88° 40' E. 130 ft. dist. from cor. No. 4 of the Fed. No. 28 lode.	Value, \$200.
No. 1	The discovery cut of the Fed. No. 30 lode, the face of which being the discovery point is on the lode line 104 ft. from a point on line 1-3, 3-4, 110 ft. from cor. No. 3, 217 ft. deep.	Value, \$10.
No. 2	Drill hole No. 103, 5 in. x 230 ft. deep, bears S. 77° 40' W. 100 ft. dist. from cor. No. 4 of the Fed. No. 30 lode.	Value, \$200.
No. 1	The discovery cut of the Kino #16 lode, the face of which being the discovery point is on the lode line 300 ft. from a point on line 1-3, 300 ft. from cor. No. 1, 217 ft. deep.	Value, \$10.
No. 2	Drill hole No. 104, 4 in. x 222 ft. deep, bears N. 48° 30' E. 300 ft. dist. from cor. No. 2 of the Kino #16 lode.	Value, \$200.
No. 1	The discovery cut of the Mission #2 lode, the face of which being the discovery point is on the lode line 300 ft. from a point on line 1-3, 300 ft. from cor. No. 2, 217 ft. deep.	Value, \$10.
No. 2	Drill hole No. 105, 4 in. x 228.5 ft. deep, bears S. 89° 13' W. 100 ft. dist. from cor. No. 4 of the Mission #2 lode.	Value, \$200.
No. 1	The discovery cut of the Fed. No. 30 lode, the face of which being the discovery point is on the lode line, 10 ft. from a point on line 1-3, 4-1, 60 ft. from cor. No. 4, 217 ft. deep.	Value, \$10.
No. 2	Drill hole No. 106, 4 in. x 193 ft. deep, bears S. 11° 31' W. 100 ft. dist. from cor. No. 4 of the Fed. No. 30 lode.	Value, \$13,000.

OTHER CORNER DESCRIPTIONS

All corners on survey No. 4447 are common to this survey and are 2 in. lead capped pipes, as previously described in the field notes for this survey.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

May 20, 19 58

I, Clifford E. Way

Mineral Surveyor, hereby certify upon honor that in pursuance of an order received from the Bureau of Land Management, at Phoenix, Arizona

dated March 11, 1958, I have faithfully and correctly executed the survey of

the mining claim of American Smelting and Refining Company,  
Cobre Hondo, Cobre Hondo Nos. 1 and 2, FED. Nos. 24 through 30,  
known as the FED. No. 34, KINO #'s 10, 11, 12, 14, 15 and MISSION #'s 1 and 2,  
(Lode, placer, or mill site)

situate in Pima Mining District, Pima County, Section 31

T. 16 S., R. 13 E., G & S R B & Meridian, Arizona, and  
(State)

designated as Survey No. 4447, which is represented in the foregoing field notes as having been executed by me and under my direction, and that said survey has been made in strict conformity with said order, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes, and I do further certify that the labor expended and improvements made

upon or for the benefit of the lode location(s) embraced in the said mining claim by  
(Lode or placer)

claimant(s) or its grantors are fully stated in my report therein, and that the character, extent, location, and itemized value thereof are specified therein with particularity and full detail, and that no portion of, or interest in, said labor and improvements so credited to this claim has been included in the estimate of expenditures upon any other claim.

Tucson, Arizona

(Place)

Clifford E. Way  
(Mineral Surveyor)

CERTIFICATE OF APPROVAL

Bureau of Land Management--Survey Office

(Office)

Phoenix, Arizona

(Place)

April 10, 19 59

(Date)

The foregoing field notes of mineral survey No. 4447, in Section 31

T. 16 S., R. 13 E., Gila and Salt River Meridian,

Arizona, executed by Clifford E. Way, Mineral Surveyor,  
(State)

under order dated March 11, 1958, 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.

Lester S. Mann  
Lester S. Mann

Office Cadastral Engineer

(Title)

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of field notes of the above described mineral survey No. \_\_\_\_\_ is a true copy of the original field notes.

(Title)

11

CERTIFICATE OF ADOPTION

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