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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

MINERAL SURVEY NO. 4460

Arizona Land District.

**FIELD NOTES**

Of The Survey Of The Mining Claim Of

American Smelting and Refining Company

Known As The

Camden Mine, Camden No. 2, Hardshell No. 1 and Hardshell No. 15

Harshaw Mining District,

Santa Cruz County, Arizona

Sections 3 & 10 (Approx.) Township 23 South, Range 16 East (unsurveyed)  
G. & S.R. Mer.

Surveyed under order dated August 4, 1958

by Robert Lenon  
Mineral Surveyor.

Claim located See reverse side, 19

Survey commenced November 1, 1958

Survey completed November 5, 1958

Address of claimant 8th Floor Valley National Building  
Tucson, Arizona

DATES OF AMENDED LOCATIONS

Camden Mine, Oct. 4, 1897; Aug. 31, 1927; May 21, 1958, July 11, 1958

Camden No. 2, May 21, 1958; July 11, 1958; Hardshell No. 1, May 21, 1958;

July 11, 1958; Hardshell No. 15, Apr. 15, 1905; May 21, 1958; July 11, 1958.

Camden Mine  
Camden No. 2  
Hardshell No. 1  
Hardshell No. 15

March 21, 1897  
December 10, 1943  
March 18, 1896  
January 1, 1905

~~Editor~~

This survey was made with a Bausch and Lomb Precise Transit No. 9259, with horizontal limb,  $5\frac{1}{2}$  ins. diam., having two single opposite verniers and full vertical circle,  $4\frac{1}{4}$  ins. diam., having two double opposite verniers; all verniers read to one minute of arc. The eyepiece is equipped with a colored glass set in the dust shutter 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 the method of double horizontal angles referred to the meridian determined by the following observations:

November 1, 1958, at the westerly end-center of the Camden No. 2 lode in latitude  $31^{\circ} 27\frac{1}{2}'$  N. and longitude  $110^{\circ} 43'$  W., I make a series of four altitude observations upon the sun for azimuth at approximately equal time intervals, two each with the telescope in direct and reversed positions, observing opposite limbs of the sun, and reading the horizontal angles from a point 900 ft. southerly to the sun.

	(1)	(2)
Mean time of observation,		
105th meridian standard time:	2h 36 <sup>m</sup> p.m.	2h 38 <sup>m</sup> p.m.

Declination of sun at mean time of observation:	14° 29½' S.	
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Mean observed vertical angles to sun's center:	31° 40'	31° 20½'
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Mean horizontal angles from reference point to sun's center:	43° 46½'	44° 15½'
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True bearing to reference point:	S. 0° 03' W.	
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The lines were measured with a Lufkin steel tape, 500 ft. in length, graduated every foot, with the end feet graduated to tenths and hundredths, and a Chicago steel tape, 300 ft. in length, graduated every foot, with the end feet graduated to tenths; both tapes were compared with a Lufkin standard at the time of beginning the survey and found correct.

All lines and connections of this survey were run by direct methods where the lines are accessible; inaccessible lines were run by traverse methods.

The magnetic declination observed at each corner of the survey gave a uniform value of  $13^{\circ} 00'$  E.

## Survey No. 4460

Feet

## CAMDEN MINE LODGE

Beginning at cor. No. 1, Camden Mine Lode; identical with cor. No. 4, Hardshell No. 1 lode of this survey.

Set a galvanized iron pipe, with a mound of stone alongside, 30 ins. long,  $1\frac{1}{2}$  ins. diam., 24 ins. in the ground, with brass cap mkd. X-HS1-4-C-1-4460; from which

United States Mineral Monument No. 1 bears S.  $15^{\circ} 57\frac{1}{2}'$  W., 394.66 ft. dist., an iron pipe, 2 ins. diam., set in mound of stone.



## Survey No. 4460

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Feet	
	A double trunked juniper, 6 ins. diam., bears S. 86° 30' W., 38.4 ft. dist., mkd. X-4460-BT. Thence N. 89° 57' W.
1140.00	Gulch, 15 ft. wide, course N. 45° W.
1155.00	Road, 15 ft. wide, bears S. 30° E. and N. 10° W.
1500.00	Cor. No. 2, identical with cor. No. 3, Hardshell No. 1 lode of this survey. Set a galvanized iron pipe with a mound of stone alongside, 30 ins. long, 1½ in. diam., 24 ins. in the ground, with brass cap mkd, X-HS1-3-C-2-4460; from which A juniper tree, 10 ins. diam., bears E., 19.4 ft. dist., mkd. X-4460-BT. Thence N. 0° 03' E.
300.00	Lode line, discovery point bears S. 89° 57' E., 1200 ft. dist. Set an iron pin, ½ in. diam. with mound of stone alongside.
600.00	Cor. No. 3, identical with cor. No. 2, Camden No. 2 lode of this survey. Set a galvanized iron pipe, mound of stone alongside, 30 ins. long, 1½ in. diam., 24 ins. in the ground, with brass cap mkd. X-C-3-C2-2-4460; from which A double trunked white oak tree, 8 ins. diam., bears S. 39° 00' E., 50.6 ft. dist., mkd. X-4460-BT. Thence S. 89° 57' E.
140.00	Gulch, 12 ft. wide, course N. 25° W.
200.00	Road, 15 ft. wide, bears N. 30° W. and S. 30° E.
1500.00	Cor. No. 4, identical with cor. No. 1, Camden No. 2 lode of this survey. Set a galvanized iron pipe, mound of stone alongside, 30 ins. long, 1½ ins. diam., 24 ins. in the ground, with brass cap mkd. X-C-4-C2-1-4460; from which United States Mineral Monument No. 1, previously described, bears S. 6° 21' W., 985.50 ft. dist. A juniper tree, 10 ins. diam., bears N. 29° 50' W., 40.2 ft. dist., mkd. X-4460-BT. Thence S. 0° 03' W.
300.00	Lode line, discovery point bears N. 89° 57' W., 300 ft. dist. Set an iron pin, ½ ins. diam., mound of stone alongside.
600.00	Cor. No. 1 and place of beginning.

## Survey No. 4460

CHAINS  
Feet

## CAMDEN NO. 2 LODE

Beginning at cor. No. 1, Camden No. 2 lode, identical with cor. No. 4, Camden Mine lode of this survey; previously described.

Thence N. 89° 57' W.

1300.00 Road, 15 ft. wide, bears N. 30° W. and S. 30° E.

1360.00 Gulch, 12 ft. wide, course N. 25° W.

1500.00 Cor. No. 2, identical with cor. No. 3, Camden Mine lode of this survey; previously described.

Thence N. 0° 03' E.

150.00 Gulch, 1 ft. wide, course N. 40° W.

240.00 Gulch, 15 ft. wide, course N. 30° W.

270.00 Road, 15 ft. wide, bears N. 25° W. and S. 25° E.

300.00 Lode line, discovery point bears S. 89° 57' E., 500 ft. dist.

Set an iron pipe,  $\frac{3}{4}$  in. diam., mound of stone alongside.

405.00 Road, 15 ft. wide, bears N. 40° E. and S. 40° W.

420.00 Water line from Hardshell Shaft to Trench Mill, 4 ins. diam., bears N. 35° E. and S. 65° W.

600.00 Cor. No. 3.

Set a galvanized iron pipe, mound of stone alongside, 30 ins. long,  $1\frac{1}{2}$  ins. diam., 24 ins. in the ground, with brass cap mkd. X-C2-3-4460; from which

Cor. No. 2, General No. 84, Alta lode bears N. 0° 03' E., 285.04 ft. dist.

A white oak tree, 8 ins. diam., bears N. 28° 20' E., 14.8 ft., mkd. X-4460-BT.

Thence S. 89° 57' E.

60.00 Old road to Harshaw, 8 ft. wide, bears N. and S.

170.00 Cross 4 ins. water line; enter roadway at curve.

205.00 Leave roadway at curve; cross 4 ins. water line.

420.00 Gulch, 6 ft. wide, bears N. 60° W.

1500.00 Cor. No. 4.

Set a galvanized iron pipe, mound of stone alongside, 30 ins. long,  $1\frac{1}{2}$  ins. diam., 24 ins. in the ground, with brass cap mkd. X-C2-4-4460; from which

A diabase outcrop, 18 x 24 ins., 12 ins. high, bears S. 89° 40' W., 19.5 ft. dist., mkd. X-B0-C2-4-4460.

Thence S. 0° 03' W.

80.00 Road from Bender Claim to Harshaw, 10 ft. wide, bears N. 25° E. and S. 25° W.

205.00 Gulch, 1 ft. wide, course N. 25° E.

222.00



Feet Chains	
105.00	Gulch, 1 ft. wide, course N. 85° E.
120.00	Road from Bender Claim to Harshaw, 10 ft. wide, bears S. 30° E. and N. 30° W.
300.00	Lode line, discovery point bears N. 89° 57' W., 1000 ft. dist. Set an iron pin, ½ in. diam., stone mound alongside.
600.00	Cor. No. 1 and place of beginning.
<b>HARDSHELL NO. 1 LODE</b>	
	Beginning at Cor. No. 1, Hardshell No. 1 lode, identical with cor. No. 1, Hardshell No. 15 lode of this survey.
	Set a galvanized iron pipe, with stone mound alongside, 30 ins. long, 1½ in. diam., 24 ins. in the ground, with brass cap mkd. X-HS1-1-HS15-1-4460; from which
	United States Mineral Monument No. 1, previously described, bears N. 26° 05' W., 245.55 ft. dist.
	No other bearings are available.
	Thence N. 89° 57' W.
585.00	Gulch, 8 ft. wide, course N. 20° W.
595.00	Road, 8 ft. wide, bears N. 20° W. and S. 20° E.
1050.00	Gulch, 8 ft. wide, course N. 45° E.
1500.00	Cor. No. 2, identical with cor. No. 4, Hardshell No. 15 lode of this survey.
	Set a galvanized iron pipe, mound of stone, alongside, 30 ins. long, 1½ ins. diam., 24 ins. in the ground, with brass cap mkd. X-HS15-4-HS1-2-4460; from which
	A white oak tree, 10 ins. diam., bears S. 77° 40' W., 123 ft. dist., mkd. X-4460-BT.
	Thence N. 0° 03' E.
300.00	Lode line, discovery point bears S. 89° 57' E., 750 ft. dist. Set an iron pin, ½ in. diam., mound of stone alongside.
600.00	Cor. No. 3, identical with Cor. No. 2, Camden Mine lode of this survey, previously described. Thence S. 89° 57' E.
345.00	Road, 15 ft. wide, bears S. 30° E. and N. 30° W.
360.00	Gulch, 15 ft. wide, course N. 45° W.
1500.00	Cor. No. 4, identical with cor. No. 1, Camden Mine lode of this survey, previously described. Thence S. 0° 03' W.

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<p>xx Feet</p> <p>300.00</p> <p>600.00</p>	<p>Lode line, discovery point bears N. 89° 57' W., 750 ft. dist..</p> <p>Set an iron pin, ½ in. diam., mound of stone alongside.</p> <p>Cor. No. 1 and place of beginning.</p>
<p>HARDSHELL NO. 15 LODE.</p>	
	<p>Beginning at cor. No. 1, Hardshell No. 15 lode, identical with cor. No. 1, Hardshell No. 1 lode of this survey, previously described.</p> <p>Thence S. 0° 03' W.</p>
<p>300.00</p> <p>600.00</p>	<p>Lode line, discovery point bears N. 89° 57' W., 280 ft. dist.</p> <p>Set an iron pin, ½ in. diam., raised mound of stone alongside.</p> <p>Cor. No. 2.</p> <p>Set a galvanized iron pipe, mound of stone alongside, 30 ins. long, 1½ ins. diam., 24 ins. in the ground, with brass cap mkd. X-HS15-2-4460; from which</p> <p>Cor. No. 2, Sur. No. 498, Salvador lode, bears N. 58° 13' W., 304.06 ft. dist.</p>
<p>252.50</p> <p>950.00</p> <p>955.00</p> <p>1257.60</p> <p>1500.00</p>	<p>Cor. No. 3, Sur. No. 499, Hermosa lode, bears N. 20° 53' E., 194.7 ft. dist.</p> <p>A juniper tree, 8 ins. diam., bears N. 54° 30' W., 40.55 ft. dist., mkd. X-2-4460-BT.</p> <p>Thence N. 89° 57' W.</p> <p>Intersect line 6-2, Sur. No. 498, Salvador lode, at a point from which cor. No. 2 bears N. 2° 08' W., 160.02 ft. dist.</p> <p>Gulch, 8 ft. wide, course N. and S.</p> <p>Road, 8 ft. wide, bears N. and S.</p> <p>Intersect line 3-4, Sur. No. 498, Salvador lode, at a point from which cor. No. 3, bears N. 2° 29' W., 146.3 ft. dist.</p> <p>Cor. No. 3.</p> <p>Set a salvanized iron pipe, mound of stone alongside, 30 ins. long, 1½ in. diam., 24 ins. in the ground, with brass cap mkd. X-HS15-3-4460; from which</p> <p>Cor. No. 3, Sur. No. 498, Salvador lode, bears N. 58° 16' E., 277.54 ft. dist.</p> <p>A juniper tree, 8 ins. diam., bears S. 21° 40' E., 19.2 ft. dist., mkd. X-4460-BT.</p> <p>Thence N. 0° 03' E.</p>
<p>50.00</p> <p>240.00</p>	<p>Gulch, 1 ft. wide, course N. 20° E.</p> <p>Gulch, 6 ft. wide, course N. 85° E.</p>



<del>CHAINS</del> Feet	300.00 Lode line, discovery point bears S. 89° 57' E., 1220 ft. dist. Set an iron pin, ½ in. diam., raised mound of stone alongside.
455.00	Gulch, 1 ft. wide, course E.
515.00	Gulch, 1 ft. wide, course S. 85° E.
545.00	Gulch, 1 ft. wide, course S. 85° E.
595.00	Gulch, 1 ft. wide, course S. 75° E.
600.00	Cor. No. 4, identical with cor. No. 2, Hardshell No. 1 lode of this survey, previously described.
	Thence S. 89° 57' E.
450.00	Gulch, 8 ft. wide, course N. 45° E.
905.00	Road, 8 ft. wide, bears N. 20° W. and S. 20° E.
915.00	Gulch, 8 ft. wide, course N. 20° W.
1500.00	Cor. No. 1 and place of beginning.

**AREAS**

Acres

Total area, Camden Mine lode	20.661
Total area, Camden No. 2 lode	20.661
Total area, Hardshell No. 1 lode	20.661
Total area, Hardshell No. 15 lode	20.661
Area in conflict with Sur. No. 498, Salvador lode	3.533

**LOCATION**

This survey is located in approx. sec. 3 and sec. 10, T. 23 S., R. 16 E., G. & S.R.B. & M., unsurveyed.

The survey of these lodes is identical with the respective location as marked on the ground.

**EXPENDITURES**

The improvements and the value of the labor and improvements made upon or for the benefit of each of the lode locations embraced in said mining claim by the claimant or its grantors are as follows:

- No. 1 The discovery point of the Camden Mine lode, being on the lode line, 300 ft. from the center of line 1-4.  
No value
- No. 2 A cut, 5 ft. wide, the face of which bears N. 20° W., 320 ft. from cor. No. 1, Camden Mine lode, runs S. 60° E., 14 ft. to 4 ft. face.  
Value, \$100.
- No. 3 A cut, 4 ft. wide, the face of which bears N. 55° W., 315 ft. from cor. No. 1, Camden Mine lode, runs S. 23° E., 10 ft. to 10 ft. face.  
Value, \$100.



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No. 4	A cut, 4 ft. wide, the face of which bears N. 63° E., 490 ft. from cor. No. 2, Camden Mine lode, runs S. 53° E., 6 ft. to 6 ft. face. Value, \$35.
No. 5	A shaft, 5 x 6 ft., 20 ft. deep, the center of which bears S. 57° E., 580 ft. from cor. No. 3, Camden Mine lode. Value, \$200.
No. 6	A shaft, 6 x 8 ft., 8 ft. deep, the center of which bears S. 61° E., 580 ft. from cor. No. 3, Camden Mine lode. Value, \$100.
No. 7	A trench, 5 ft. wide, 12 ft. face, the N. end of which bears S. 83° E., 800 ft. from cor. No. 3, Camden Mine lode, runs S. 30° W., 75 ft. Value, \$750.
No. 8	A cut, 5 ft. wide, the face of which bears S. 62° W., 460 ft. from cor. No. 4, Camden Mine lode, runs S., 12 ft to 10 ft. face, with shaft, 5 x 6 ft. in size, 8 ft. deep. Value, \$250.
No. 9	A shaft, 4 x 8 ft., 3 ft. deep, the center of which bears N. 76° E., 555 ft. from cor. No. 2, Camden Mine lode. Value, \$45.
No. 10	A sidehill cut, 5 ft. wide, 20 ft. long, 5 ft. face, the N. end of which bears N. 82° E., 555 ft. from Cor. No. 2, Camden Mine lode, the long side bears S. 50° E. Value, \$50.
No. 11	A shaft, 4 x 6 ft., 15 ft. deep, the center of which bears N. 86° E., 570 ft. from cor. No. 2, Camden Mine lode. Value, \$150.
No. 12	A sidehill cut, 4 ft. wide, 10 ft. long, 2 ft. face, the N. end of which bears S. 71° E., 560 ft. from cor. No. 3, Camden Mine lode, the long side bears S. 35° E. Value, \$10.
No. 1	The discovery cut of the Camden No. 2 lode, the face of which being the discovery point, is on the lode line, 500 ft. from the center of line 2-3, 10 ft. face, 5 ft. wide, runs S., 12 ft. to face. Value, \$100.
No. 2	An adit, 4 x 6 ft. in size, the portal of which bears N. 80° W., 535 ft. from cor. No. 1, Camden No. 2 lode, runs S. 45° W., 75 ft. to breast. Value, \$750.
No. 3	A cut, 6 ft. wide, the face of which bears N. 88° W., 645 ft. from cor. No. 1, Camden No. 2 lode, runs S. 30° W., 15 ft. to 12 ft. face. Value, \$250.
No. 4	A pit, 3 x 4 ft., 3 ft. deep, the center of which bears N. 76° E., 540 ft. from cor. No. 2, Camden No. 2 lode. Value, \$25.
No. 5	A shaft, 6 x 8 ft., 25 ft. deep, the center of which bears N. 74° E., 510 ft. from cor. No. 2, Camden No. 2 lode. Value, \$250.
No. 6	A cut, 4 ft. wide, the face of which bears N. 70° E., 545 ft. from cor. No. 2, Camden No. 2 lode, runs S., 10 ft. to 8 ft. face. Value, \$75.

Feet	
No. 7	A cut, .5 ft. wide, the face of which bears N. 62° E., 510 ft. from cor. No. 2, Camden No. 2 lode, runs S. 20° E., 12 ft. to 10 ft. face. Value, \$150.
No. 8	A cut, 10 ft. wide, the face of which bears S. 69° 30' E., 305 ft. from cor. No. 3, Camden No. 2 lode, runs S. 10° E., 25 ft. to 6 ft. face; a shaft, 10 x 10 ft. in size, 6 ft. deep. Value, \$150.
No. 9	A dirt reservoir, 20 x 40 ft. in size, 10 ft. deep, the center of which bears S. 23° W., 295 ft. from cor. No. 4, Camden No. 2 lode. Value, \$500.
No. 10	A sidehill cut, 4 ft. wide, 10 ft. long, 4 ft. face, the face of which bears N. 14° E., 270 ft. from cor. No. 2, Camden No. 2 lode, long side bears S. 20° E. and N. 20° W. Value, \$40.
No. 11	A shaft, 8 x 8 ft., 6 ft. deep, the center of which bears S. 54° 30' E., 345 ft. from cor. No. 3, Camden No. 2 lode. Value, \$190.
No. 12	A trench, 2 ft. wide, 2 ft. deep, the N. end of which bears S. 46° E., 345 ft. from cor. No. 3, Camden No. 2 lode, runs S. 10° W., 15 ft. Value, \$30.
No. 1	The discovery adit of the Hardshell No. 1 lode, the portal of which being the discovery point, is on the lode line, 750 ft. from a point on line 1-2, 300 ft. from cor. No. 1, 4 x 5 ft. in size, runs S. 50° E., 20 ft. to breast with a small amount of workings. Value, \$250.
No. 2	A cut, 40 ft. wide, the face of which bears N. 87° W., 320 ft. from cor. No. 1, Hardshell No. 1 lode, face runs S. 20° E., runs 10 ft. to 7 ft. face, has a 5 x 15 ft. shaft, 2 ft. deep, beginning 3 ft. from NW. end. Value, \$550.
No. 3	A shaft, 4 x 6 ft., 8 ft. deep, the center of which bears N. 63° W., 25 ft. from cor. No. 1, Hardshell No. 1 lode. Value, \$100.
No. 4	A cut, 4 ft. wide, the face of which bears N. 58½° E., 485 ft. from cor. No. 2, Hardshell No. 1 lode, runs S. 40° W., 6 ft. to 6 ft. face. Value, \$40.
No. 5	A cut, 5 ft. wide, 11 ft. face, face of which bears S. 27° E., 150 ft. from cor. No. 3, Hardshell No. 1 lode, runs S. 73° W., 20 ft. to 11 ft. face, and portal of adit, 5 x 6 ft. in size, running S. 73° W., 15 ft. to breast. Value, \$350.
No. 6	Powder magazines adit, 5 x 6 ft. in size, the portal of which bears S. 79½° E., 655 ft. from cor. No. 3, Hardshell No. 1 lode, runs N. 35° E., 100 ft. to breast. Value, \$1200.
No. 7	An adit, 5 x 6 ft. in size, the portal of which bears S. 84° W., 670 ft. from cor. No. 4, Hardshell No. 1 lode, runs N. 30° E., 100 ft. to breast. Value, \$1000.
No. 8	A shaft, 6 x 6 ft., 20 ft. deep, the center of which bears S. 89° W., 660 ft. from cor. No. 4, Hardshell No. 1 lode. Value, \$300.



No. 9	A cut, 4 ft. wide, the face of which bears S. 85° W., 640 ft. from cor. No. 4, Hardshell No. 1 lode, runs N. 60° E., 12 ft. to 12 ft. face. Value, \$125.
No. 10	A cut, 5 ft. wide, the face of which bears S. 72° W., 570 ft. from cor. No. 4, Hardshell No. 1 lode, runs N. 55° E., 10 ft. to 7 ft. face. Value, \$75.
No. 11	A cut, 4 ft. wide, the face of which bears S. 67½° W., 575 ft. from cor. No. 4, Hardshell No. 1 lode, runs N. 75° E., 25 ft. to 10 ft. face and portal of adit, 5 x 7 ft. in size, running N. 75° E., 45 ft. to breast. Value, \$550.
No. 12	An adit, 5 x 6 ft. in size, the portal of which bears S. 75° E., 415 ft. from cor. No. 3, Hardshell No. 1 lode, runs S. 45° W., 12 ft. to breast. Value, \$130.
No. 13	A cut, 10 ft. wide, the face of which bears S. 68° W., 540 ft. from cor. No. 4, Hardshell No. 1 lode, runs S. 80° E., 12 ft. to 12 ft. face. Value, \$250.
No. 14	An adit, 4 x 6 ft. in size, the portal of which bears S. 69½° E., 805 ft. from cor. No. 3, Hardshell No. 1 lode, runs N. 55° E., 10 ft. to breast. Value, \$100.
No. 1	The discovery shaft of the Hardshell No. 15 lode, the center of which being the discovery point, is on the lode line, 280 ft. from a point on line 1-2, 300 ft. from cor. No. 1, 5 x 5 ft. in size, 8 ft. deep. Value, \$100.
No. 2	A shaft, 4 x 6 ft., 3 ft. deep, the center of which bears S. 87° W., 860 ft. from cor. No. 1, Hardshell No. 15 lode. Value, \$35.
No. 3	A cut, 4 ft. wide, the face of which bears S. 65° W., 170 ft. from cor. No. 1, Hardshell No. 15 lode, runs N. 35° E., 20 ft. to 10 ft. face and portal of adit, 4 x 6 ft. in size, running N. 35° E., 12 ft. to breast. Value, \$500.
No. 4	A shaft, 4 x 6 ft., 3 ft. deep, the center of which bears S. 45° W., 115 ft. from cor. No. 1, Hardshell No. 15 lode. Value, \$35.
No. 5	A cut, 4 ft. wide, the face of which bears S. 55° W., 435 ft. from cor. No. 1, Hardshell No. 15 lode, runs S. 50° E., 12 ft. to 5 ft. face. Value, \$50.
No. 6	A shaft, 4 x 6 ft., 8 ft. deep, the center of which bears S. 50° 30' W., 340 ft. from cor. No. 1, Hardshell No. 15 lode. Value, \$100.
No. 7	A shaft, 4 x 6 ft., 4 ft. deep, the center of which bears S. 42° W., 320 ft. from cor. No. 1, Hardshell No. 15 lode. Value, \$25.
No. 8	A cut, 4 ft. wide, the face of which bears S. 39° W., 375 ft. from cor. No. 1, Hardshell No. 15 lode, runs S. 20° E., 25 ft. to 6 ft. face. Value, \$250.
No. 9	A cut, 4 ft. wide, the face of which bears S. 47° W., 440 ft. from cor. No. 1, Hardshell No. 15 lode, runs S. 10° E., 10 ft. to 4 ft. face. Value, \$35.



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No. 10	An adit, 4 x 6 ft. in size, the portal of which bears N. 15° W., 160 ft. from cor. No. 2, Hardshell No. 15 lode, runs S. 65° E., 35 ft. to breast. Value, \$420.
No. 11	A cut, 6 ft. wide, the face of which bears N. 42° W., 115 ft. from cor. No. 2, Hardshell No. 15 lode, runs S. 10° W., 25 ft. to 10 ft. face. Value, \$300.
No. 12	An adit, 4 x 5 ft. in size, the portal of which bears S. 66° E., 1000 ft. from cor. No. 4, Hardshell No. 15 lode, runs N. 30° E., 6 ft. to breast. Value, \$60.
No. 13	An adit, 5 x 5 ft. in size, the portal of which bears S. 65½° E., 990 ft. from cor. No. 4, Hardshell No. 15 lode, runs S. 30° E., 20 ft. to breast with a 4 x 6 winze at end of adit, 8 ft. deep. Value, \$95.
No. 14	A cut, 4 ft. wide, the face of which bears S. 35° E., 533 ft. from cor. No. 4, Hardshell No. 15 lode, runs S. 30° E., 15 ft. to 8 ft. face. Value, \$95.
No. 15	A shaft, 12 x 6 ft., 6 ft. deep, the center of which bears N. 66½° E., 470 ft. from cor. No. 3, Hardshell No. 15 lode. Value, \$100.
No. 16	A shaft, 6 x 4 ft., 6 ft. deep, the center of which bears S. 46½° E., 554 ft. from cor. No. 4, Hardshell No. 15 lode. Value, \$65.
No. 17	A cut, 4 ft. wide, the face of which bears S. 35° E., 504 ft. from Cor. No. 4, Hardshell No. 15 lode, runs S. 50° W., 10 ft. to 5 ft. face. Value, \$25.
No. 18	A cut, 4 ft. wide, the face of which bears S. 48° E., 432 ft. from cor. No. 4, Hardshell No. 15 lode, runs S. 40° E., 4 ft. to 6 ft. face. Value, \$25.
No. 19	A shaft, 5 x 6 ft., 3 ft. deep, the center of which bears S. 34° E., 131 ft. from cor. No. 4, Hardshell No. 15 lode. Value, \$20.
No. 20	A shaft, 4 x 6 ft., 4 ft. deep, the center of which bears S., 7 ft. from cor. No. 4, Hardshell No. 15 lode. Value, \$45.
No. 21	A cut, 5 ft. wide, the face of which bears S. 73½° E., 144 ft. from cor. No. 4, Hardshell No. 15 lode, runs N. 45° W., 25 ft. to 8 ft. face and portal of adit, 5 x 5 ft. in size, running N. 45° W., 100 ft. to breast. Value, \$800.
No. 22	A cut, 5 ft. wide, the face of which bears S. 86½° E., 597 ft. from cor. No. 4, Hardshell No. 15 lode, runs N. 80° E., 12 ft. to 10 ft. face. Value, \$100.
No. 23	A cut, 4 ft. wide, the face of which bears S. 88° W., 290 ft. from cor. No. 1, Hardshell No. 15 lode, runs S. 53° E., 12 ft. to 5 ft. face. Value, \$50.
No. 24	A cut, 4 ft. wide, the face of which bears S. 89° W., 230 ft. from cor. No. 1, Hardshell No. 15 lode, runs N. 50° E., 20 ft. to 6 ft. face. Value, \$90.

~~CLAIMS~~

An interest in a common improvement described as follows:

Diamond drill hole HS-1, 2 ins. diam., 242 ft. deep, which bears N. 44° 30' E., 365 ft. from cor. No. 2, Camden Mine lode.

Value, \$435.

Diamond drill hole HS-2, 2 ins. diam., 289 ft. deep, which bears S. 49° E., 205 ft. from cor. No. 3, Camden Mine lode.

Value, \$530.

Diamond drill hole HS-3, 2½ ins. diam., 510 ft. deep, which bears S. 68° E., 500 ft. from cor. No. 3, Camden No. 2 lode.

Value, \$1,350.

Diamond drill hole HS-4, 2½ ins. diam., 886 ft. deep, which bears N. 70° W., 680 ft. from cor. No. 1, Camden No. 2 lode.

Value, \$1,550.

Diamond drill hole HS-5, 3 ins. diam., 345 ft. deep, which bears S. 73° E., 475 ft. from cor. No. 3, Hardshell No. 1 lode.

Value, \$910.

Diamond drill hole HS-6, 3 ins. diam., 600 ft. deep, which bears S. 75° E., 230 ft. from cor. No. 3, Camden No. 2 lode.

Value, \$1,800.

Diamond drill hole HS-7, 2½ ins. diam., 301 ft. deep, which bears N. 79° E., 760 ft. from cor. No. 2, Hardshell No. 1 lode.

Value, \$1,080.

Diamond drill hole HS-8, 2½ ins. diam., 273 ft. deep, which bears N. 78½° E., 490 ft. from cor. No. 2, Hardshell No. 1 lode.

Value, \$705.

Diamond drill hole HS-9, 2½ ins. diam., 626 ft. deep, which bears S. 78° E., 680 ft. from cor. No. 3, Hardshell No. 1 lode.

Value, \$2,200.

The Hardshell incline shaft, 6 x 6 ft. in size, the collar of which bears S. 86° 30' E., 520 ft. from cor. No. 3, Hardshell No. 1 lode, runs N. 12° W., at an incline of 24° 32' for an inclined length of 505 ft. or a depth of 210 ft. below collar. There is in excess of 1100 ft. of horizontal workings, in addition to approx. 500 ft. of workings at various points on the incline.

Value, \$42,100.

Value of common improvements: \$52,660.

Value of undivided one-fourth interest: \$13,165.

These improvements are for the development of the four lodes of this survey, which are all contiguous lode claims within the range of benefit of these improvements.

No portion of or interest in these improvements has been credited heretofore as patent expenditure to any lode claim.

#### OTHER IMPROVEMENTS

The Hardshell shaft, 6x6 ft. in size, 450 ft. deep, the center of which bears S. 63° W., 610 ft. from cor. No. 4, Camden No. 2 lode, 450 ft. deep, 400 ft. of level workings have been driven off this shaft. This shaft contains the pump that sends water to the Trench Mill.

Claimant Herein.



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~~XXXXX~~

A plank ore bin, 10 x 20 ft. in size, the SW. cor. of which bears S. 84° 30' E., 460 ft. from cor. No. 3, Hardshell No. 1 lode, the long sides bear S. 64° E.  
 Claimant Herein.

A frame house, the NW. cor. of which bears S. 60° W., 580 ft. from cor. No. 4, Camden No. 2 lode, 25 x 30 ft. in size, the long sides bear S. 18° W.  
 Claimant Herein.

A frame hoist house, sheathed with corrugated metal, the NW. cor. of which bears S. 62° W., 645 ft. from cor. No. 4, Camden No. 2 lode, 12 x 30 ft. in size, the long sides bear S. 86° E.  
 Claimant Herein.

The road from the Hardshell shaft to Harshaw runs 1600 ft. across Camden No. 2 lode, 15 ft. wide.  
 Claimant Herein

The old road from the Bender claim to Harshaw, 8 ft. wide, south of the Hardshell inclined shaft and 15 ft. wide to the north, runs 2700 ft. across the four claims of the group.  
 Claimant Unknown.

A corrugated metal covered building, 10 x 15 ft. in size, the NE. cor. of which bears S. 55° W., 620 ft. from cor. No. 4, Camden No. 2 lode.  
 Claimant Herein

A 4 in. iron pipe line, carrying water from the Hardshell shaft to the Trench Mill, runs approx. 1100 ft. across Camden No. 2 lode.  
 Claimant Herein

An adit, 5 x 7 ft. in size, the portal of which bears N. 86½° E., 570 ft. from cor. No. 2, Camden Mine lode, runs N. 67° E., has several stops and a 4 x 5 raise to the surface.  
 Claimant Herein

OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

United States Mineral Monument No. 1, Harshaw District, is an iron pipe, 2 ins. diam., 6 ft. high, loosely set in square mound of stones, 6x6 ft. in size at base, 4 ft. high, No bearing objects were found.

Cor. No. 2, General No. 84, Alta lode is stone mound; I set a redwood post, 2x2 ins. in size, 3 ft. high, in the center and rebuilt the mound.

Sur. No. 498, Salvador lode; cor. No. 2 is a wooden post, 4x4 ins. in size, firmly set with faint markings; possible bearing tree was seen: Cor. No. 1 was not found. Cor. No. 6 is a wooden post, 4x6 ins. in size, set in mound of stone. Line 6-2 was found to bear N. 2° 08' W., 599.0 ft. instead of N. 0° 50' W., 600.0 ft. as approved. Cor. No. 3 is a wooden post, 4x6 ins. in size, set in mound of stone, with faint markings. Line 2-3 was found to bear S. 89° 16' W., 1005.56 ft. instead of N. 89° 06' W., 1050 ft. as approved. Cor. No. 4 is a wooden post, 4x6 ins. in size, set in stone mound. Line 3-4 was found to be S. 2° 29' E., 292.9 ft. instead of S. 0° 50' E. as approved. Cor. No. 5 was seen, but not measured to in this survey.

Sur. No. 499, Hermosa lode; Cor. No. 3 is a stone mound; I set a wooden stake, 1x2 ins. in size in the center for tie purposes.

FIELD ASSISTANTS

Marlin Widger	Instrumentman
Joe D. Alvarez	Chairman
Michael Pine	Chairman



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

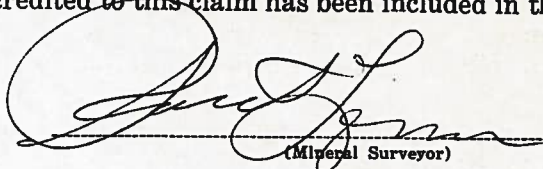
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CERTIFICATE OF SURVEYOR

January 7, 1958<sup>59</sup>

I, Robert Lenon  
 Mineral Surveyor, hereby certify upon honor that in pursuance of an order received from the \_\_\_\_\_  
Office Cadastral Engineer, at Phoenix  
 dated August 4, 1958, I have faithfully and correctly executed the survey of  
 the mining claim of American Smelting and Refining Company  
 known as the Camden Mine, Camden No. 2, Hardshell No. 1, and Hardshell No. 15 lodes  
(Lode, placer, or mill site)  
 situate in Harshaw Mining District, Santa Cruz County; Sections 3 & 10 (approximately)  
 T. 23 S., R. 16 E. (unsurveyed) G & S R Meridian, Arizona, and  
(State)  
 designated as Survey No. 4460, 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.

Patagonia, Arizona  
(Place)

  
 \_\_\_\_\_  
(Mineral Surveyor)

CERTIFICATE OF APPROVAL

Bureau of Land Management Cadastral Survey  
(Office) Office  
Phoenix, Arizona May 13, 1959  
(Place) (Date)

The foregoing field notes of mineral survey No. 4460, in approximately Secs. 3 & 10  
 \_\_\_\_\_, T. 23 S., R. 16 E. (unsurveyed) Gila & Salt River Meridian,  
Arizona, executed by Robert Lenon, Mineral Surveyor,  
(State)  
 under order dated August 4, 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)

