

MINERAL SURVEY No. 4222

Arizona

Land District

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

AMERICAN SMELTING AND REFINING Company

KNOWN AS THE
HARDSHELL No.7, JOSEPHINE, TRENCH NO. 2, TRENCH No.3, TRENCH No.4, TRENCH No.5
TRENCH No.6, TRENCH No.7, TRENCH No.8, TRENCH EXTENSION NO.1, TRENCH EXTENSION
NO.2, TRENCH EXTENSION NO. 3 and TRENCH EXTENSION NO. 4 lodes.

Harshaw

Mining District,

Santa Cruz

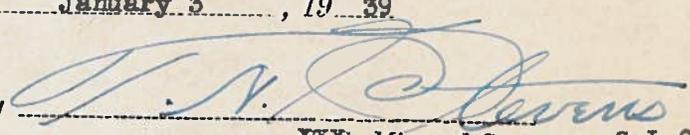
County,

Arizona

Sections 4 and 5 Mos., Township 23 S., Range 16 E., Unsur.

Surveyed under instructions dated January 3, 1939

By



G.L.O. Mineral Surveyor. G.L.O.

Claim located See location notices, 19

Survey commenced January 23, 191939

Survey completed February 15, 1939, 191939

Address of claimant 's Atty., Ben C. Hill, 77 Court St., Tucson, Ariz.

DATES OF AMENDED LOCATIONS

See location notices.

Feet.

MINERAL SURVEY NO.4222

Mineral survey No.4222 was made with a Gurley Mountain transit, with horizontal limb 6.5 ins. diam. having two opposite verniers and full vertical circle, 5 ins. diam., having one double vernier. The verniers read to one minute of arc.

The instrument was in good condition at the time of the survey, and all adjustments were in good order. A P.M. altitude observation for azimuth and noon on the meridian for latitude and time were made on a line of the survey. The details of which observations are shown in the calculation sheets, herewith submitted for examination.

All azimuths in this record are referred to the true meridian by the method of deflection angles, and calculated courses.

The lines were measured with a Lufkin Steel tape, 500 ft. in length, graduated every foot, with the first and last foot graduations to tenths and hundredths. The tape was correct at the time of the survey.

All lines and connections in this survey were run directly upon the ground.

The magnetic variation observed at each corner gave a uniform value of $14^{\circ}45'$ E.

HARDSHELL No.7 lode.

Beginning at Cor. No.1 of the Hardshell No.7 lode, identical with Loc. Mon. and Cor. No.2, Trench Extension No. 4 lode of this Sur. -Where I-

Set an iron post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md of stone, stamped 1 H No.7, - 4222, from which the cor. to Secs. 32 and 33 on the S. body of T.22S.,R. 16 E., brs. N.13°15'59" W., 1837.21 ft. dist.

Consisting of a steel post 2 ins. diam. with brass cap on top, stamped T. 22 S. R. 16 E., S. 32, S. 33, set firmly in the ground and surrounded with md of stone.

An oak tree 14 ins. diam. brs. S.19°30'E., 14.8 ft. dist. Blazed and scribed 1 H.7- 4222.

Cor. No.4, Trench Extension No.3 lode of this Sur. brs. N.83°12'44"E. 404.17 ft. dist.

Cor.No.3, Trench Extension No.3 lode of this Sur. brs. S.8°16'47"E. 454.08 ft. dist. No other bearings are available.

Thence S.38°16'W.,

300.0 To W. end center, identical with Loc. Mon. Where I-

Set a pine post 4 ins. sq by 4 ft. high, set firmly in the ground and surrounded with md of stone, scribed W. Cr. H. No.7

330.12 Intersect lines 2-3 and 4-1 Trench Extension Nos 3 and 2 lodes of this Sur., at N.54°49'36"W., 330.11 ft. from Cor. Nos. 3 and 4

400.0 Road brs. northwesterly.

600.0 To Cor. No.2, identical with Loc. Mon. Where I-
Set an iron post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md of stone, stamped 2 H. No.7 - 4222.

Cor. Nos. 3 and 4, Trench Extension Nos 3 and 2 lodes respectively, of this survey, brs. N. 87° 9 '11" E. 437.52 ft.

No other bearings are available

Mineral survey No.4222
Hardshell No.7. lode Cont.d.

Thence S. 49° 51' 46" E.

351.87	To Cor. No.1, Trench Extension No.1 lode of this Sur. and intersect line 3-4 Trench Extension No.2 lode of this Sur., ^{at E. end center,} hereinafter described. Set an iron Post 2 ins. diam. with lead cap on top, 24 ins above ground, set 18 ins. in the ground and surrounded with md of stone, stamped 1 T. EX No.1, E. Cr. T. Ex No.2 - 4222.
530.00	Road brs. northeasterly.
1460.00	Road brs. easterly.
1480.00	Gulch 40 ft. wide brs. easterly.
1499.91	To Cor. No.3, identical with Loc. Mon. and Cor. No.4 Trench Extension No.1 lode of this Sur. and Cor. No.4, Lot 38 A Alta lode, Hardshell Mining Co. Claimant, Where I- Set an iron post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md of stone, stamped 3 H. No.7, 4, T.Ex. No.1- 4222, 4A-38A, from which U.S.M.M.No.1 brs. S.51°21'30" E., 3741.52 ft. dist. consisting of a monument of stone 5 ft. base by 4 ft. high with iron pipe 2 ins. diam. by 6 ft. in the center of Mon. Stamped U.S. M M No.1. A juniper tree 14 ins. diam. brs. N.14°E., 27.1 ft. dist. blazed and scribed 3,4 - 4222, 4 A Lot 38 A. No other bearings are available. Thence N.38°16'E.
33.0	Gulch brs easterly. (40 ft. wide)
85.0	Road brs. easterly
183.0	Adobe house 12 x 16' on line, course of long side N.50°W, S.W. Cor. brs. N. 50° W. 7 ft.
300.00	To E. end center, identical with Loc. Mon. and W end center Lot. 38 A, Alta lode where I- Set a pine post 4 ins. sq by 4 ft. high, set firmly in the ground and surrounded with md of stone, scribed E. Cr. H No.7, W. Cr. A.
350.00	Road brs. northeasterly.
460.00	Gulch 40 ft. wide brs. northeasterly.
545.0	Old road brs. northerly.
600.00	To Cor. No.4, identical with Loc. Mon., and Cor. No.3, Trench Extension No.4 lode of this Sur. and Cor. No.1 Lot 38A Alta lode, Where I- Set an iron post 2 ins. Diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md of stone, Stamped 4 H No.7, 3 T Ex. No.4 - 4222, 1 A - 38 A. An oak tree 24 ins diam. brs. S. 76°W., 9.0 ft. dist. Blazed and scribed 3-4, 4222, 1 A - 38 A. No other bearings are available. Thence N.49°51'46" W.
150.0	Gulch 40 ft. wide brs. northeasterly.

Feet.	MINERAL SURVEY No.4222
	HARDSHELL No.7 lode. Cont'd.
200.0	Road brs. northeasterly.
1192.40	Intersect line 3-4, Trench Extension No.3 lode of this Sur. at N.34°03'E., 303.09 ft. from Cor. No.3
1499.91	To Cor. No.1 and place of beginning.
	JOSEPHINE Lode
	Beginning at Cor. No.1, identical with Loc. mon. and Cor. No.2 Trench No.8 lode of this Sur. on line 1-2 Trench Extension No. 2 lode of this Sur. at N.34°03'E., 138.73 ft. from Cor. No.2 where I-
	Set an iron post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md of stone, stamped 1 J, 2 T No 8 - 4222, from which the Cor. to Secs 32 and 33 T.22 S. R. 16 E. brs. N.28°58'08" E., 2021.51 ft. dist. No bearing objects available
	Thence S.34°03'W.,
138.73	To Cor. No.2, Trench Extension No.2 lode of this Sur. and Cor. No.1 Lot No 37 A Trench lode hereinafter described.
300.00	To E. end center, identical with Loc. Mon. A pine post 4 ins sq. by 4 ft. high, set firmly in the ground and surrounded with md of stone, scribed E. Cr. J.
439.34	To Cor. No.4 Lot No.37 A Trench lode and Cor. No.5 Trench No.2 lode of this Sur., hereinafter described.
599.36	To Cor No.2, identical with Loc. Mon. Where I- Set an iron post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md of stone. stamped 2 J - 4222.
	Cor. No.1, Trench No 2 lode of this Sur. brs. N.37°20'W., 503.43 ft. dist.
	No other bearing objects available.
	Thence N.56°40'29" W.,
415.0	Gulch 20 ft. wide brs. northeasterly.
477.13	Intersect line 1-2 Trench No.2 lode of this Sur.
1500.0	To Cor. No3, identical with Loc. Mon. Where I- Set an iron post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md of stone Stamped 3 J - 4222.
	No bearing objects available.
	Thence N.34°03'E.
300.0	To W. end center, identical with Loc. Mon. Where I- Set a pine post 4 ins. sq by 4 ft. high, set firmly in the ground

5

Feet.

MINERAL SURVEY No. 4222

Josephine lode, Cont'd.

and surrounded with md of stone, scribed W. Cr. J

600.00

To Cor. No.4, identical with Loc. Mon and Cor. No.3 Trench No.8 lode of this Sur. Where I-

Set an iron post 2 ins. diam. with lead cap on top, 24 ins. above ground, ~~set~~ 18 ins. in the ground and surrounded with md of stone stamped 4 J, 3 T. No.8 - 4222.

No bearings are available.

1190.0

Thence S.56°39'E. Road brs. northeasterly.

1250.0

Gulch 20 ft. wide brs. northeasterly.

1500.0

To Cor. No.1 and place of beginning.

TRENCH No.2 lode.

Beginning at Cor. No.1, identical with a corner of the location Where I-

Set an iron post 2 ins. diam. with lead cap on top, 24 ins. above ground, ~~set~~ 18 ins. in the ground and surrounded with md of stone, stamped 1, T. No.2 - 4222 from which the Cor. to Secs. 32 and 33; T. 22 S. R. 16 E., brs. N.40°58' 50" E., 2470.25 ft. dist.~~Cor. No.2 Josephine lode of this Sur. brs. S.37°20'E., 505.45 ft. dist.~~

An oak tree 8 ins. diam. brs. S. 40°E., 14.0 ft. dist, blazed and scribed 1-4222 BT.

No other bearings are available.

166.74

Thence S. 34°03'W. Intersect line 2-3 Josephine lode of this Sur.

300.00

To W. end center, identical with Loc. Mon. Where I-

Set a pine post 4 ins. sq by 4 ft. high, set firmly in the ground and surrounded with md of stone, scribed W. Cr. T. No.2

480.0

Gulch 15 ft. wide brs. northeasterly.

600.0

To Cor. No.2, identical with the Loc. Mon. and Cor. No.1, Trench No.3 lode of this Sur. Where I-

Set an iron post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md of stone Stamped 2 T No.2, 1 T. No.3 - 4222.

No bearings are available.

Thence S. 55°52'38'E. -

1499.47

To Cor. No.3, identical with Loc. Mon. and Cor. Nos. 4,1 and 2 Trench No.3, Trench No.6 and Trench No.7 lodes respectively of this Sur. Where I

Set an iron post 2 ins. diam. with lead cap on top, 24 ins. above ground, ~~set~~ 18 ins. in the ground and surrounded with md of stone, Stamped 3 T. No.2, 4 T. No.3, 1 T. No.6 and 2 T. No.7 - 4222

Feet.	
	<p>MINEERAL SURVEY No.4222</p> <p>TRENCH No.2 lode Cont'd.</p> <p>No bearings are available.</p> <p>Thence N.34°03'E.,</p>
300.0	<p>To E. end center, identical with Loc. Mon. and W. end center Trench No.7 lode of this Sur. Where I-</p> <p>Set a pine post 4 ins. sq. by 4 ft. high, set firmly in the ground and surrounded with md of stone, scribed E. Cr. T. No.2, W. Cr. T. No.7</p>
581.56	<p>To Cor. No.4, identical with Cor. No.1 Trench No.7 lode of this Sur on line 3-4, Lot No.37 A. Trench lode at N.54°50'56" W. 455.06 ft. from Cor. No.3.</p> <p>Loc. Mon. brs. N.34°03'E., 18.44 ft. dist.</p> <p>No other bearings are available.</p> <p>Thence N. 54°50'56" W.</p>
1022.57	<p>To Cor. No.5, identical with Cor. No.4 Lot No.37 A Trench lode On line 1-2 Josephine lode of this Sur. Where I-</p> <p>Set an iron post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins in the ground and surrounded with md of stone. Stamped 5 T. No.2- 4222, 4, T-Lot 37 A</p> <p>No bearings are available.</p> <p>Thence N. 55°52' W.</p>
350.0	<p>Gulch 20 ft. wide brs. northeasterly.</p>
477.1	<p>To Cor. No.1 and place of beginning.</p>
	<p>TRENCH No.3 Lode.</p>
	<p>Beginning at Cor. No.1, identical with the Loc. Mon. and Cor. No.2 Trench No.2 lode of his Sur., heretofore described, from which The Cor. to Secs. 32 and 33, T.22 S. R. 16 E. brs. N.39°37'40" E. 3066.73 ft. dist.</p> <p>Thence S.34°03'W.</p>
10.0	<p>Gulch 10 ft. wide brs. northeasterly.</p>
300.0	<p>To W. end center, identical with Loc. Mon. Where I-</p> <p>Set a pine post 4 ins. sq. by 4 ft. high, set firmly in the ground and surrounded with md. of stone, scribed W. Cr. T. No.3</p>
600.0	<p>To Cor. No.2, identical with the Loc. Mon. and Cor. No.1, Trench No.4 lode of this Sur. Where I-</p> <p>Set an iron post 2 ins. diam. with lead cap on top, 24 ins above ground, set 18 ins. in the ground and surrounded with md. of stone stamped 2 T. No.3, 1 T No.4 - 4222.</p> <p>No bearings are available.</p> <p>Thence S. 55°52' 38" E.</p>
1499.47	<p>To Cor. No.3, identical with the Loc. Mon. and Cor. Nos. 4, 1 and 2 Trench No.4, Trench No.5 and Trench No.6 lodes respectively of this Sur. Where I-</p>

See Supplement
 Cor. No. 1

7

Feet.

MINERAL SURVEY No.4222
TRENCH No.3 lode Cont'd.

set an iron post 2 ins. diam. with lead cap on top, 24 ins. above ground, ~~set~~ 18 ins. in the ground and surrounded with md. of stone, stamped 3 T. No.3, 4 T No.4, 1 T. No.5 , 2 T. No.6 - 4222.

An oak tree 6 ins. diam. brs. N. 34°E., 1.0 ft. dist.
Blazed and scribed 1,2,3,4 - 4222 BT.

No other bearings are available.

Thence N. 34°03'E

300.0 To E. end center, identical with Loc. Mon. and W. end center Trench No.6 lode of this Sur. Where I-

Set a pine post 4 ins. sq by 4 ft. high, ~~set~~ firmly in the ground and surrounded with md of stone, scribed E. Cr. T. No.3, W. Cr. T. No.6.

600.0 To Cor. No.4 , identical with Loc. Mon. and cor. Nos. 1,2 and 3 , Trench No.6, Trench No.7 and Trench No.2 lodes respectively of this Sur., heretofore described.

Thence N.55°52'38" W.

1499.47 to Cor. No.1, and the place of beginning.

TRENCH No.4 lode.

Beginning at Cor. No.1, identical with the Loc. Mon. and Cor. No.2, Trench No.3 lode of this Sur. heretofore described, from which the Cor. to Secs. 32 and 33, T 22 S, R.16 E. brs. N.38°42'57" E., 3664.35 ft. dist.

Thence S. 34°03'W.

300.00 To W. end center, identical with the Loc. Mon. where I-

Set a pine post 4 ins. sq by 4 ft. high, ~~set~~ firmly in the ground and surrounded with md of stone, scribed W. Cr. T. No.4 of stone stamped 2, T. No.4 - 4222.

600.00 To Cor. No.2, identical with Loc. Mon., where I set an iron post 2 ins. diam. with lead cap on top, 24 ins. above ground, 18 ins. in the ground and surrounded with md. of stone, stamped 2 T No.4-4222.

No bearings are available.

Thence S. Thence S. 55°52'38" E.

1499.47 To Cor. No.3, identical with the Loc. Mon. and Cor. No.2 , Trench No.5 lode of this Sur. Where I-

Set an iron post 2 ins. diam. with lead cap on top, 24 ins. above ground, ~~set~~ 18 ins. in the ground and surrounded with md. of stone, stamped 3 T No.4, 2 T. No.5 - 4222.

No bearings are available .

Thence N.34°03'E.,

300.0 To E. end center, identical with the Loc. Mon. and W. end center Trench No.5 lode of this Sur. Where I-

Set a pine post 4 ins. sq by 4 ft. high, ~~set~~ firmly in the ground and surrounded with md of stone, scribed, E. Cr. T. No.4, W. Cr. T. No.5

Feet.	MINERAL SURVEY No.4222 TRENCH No.4 lode Cont'd.
600.00	To Cor. No.4, identical with the Loc. Mon. and Cor. Nos 1, 2 and 3 Trench No.5, Trench No.6 and Trench No.3 lodes respectively of this Sur., heretofore described.
1499.47	Thence N.55°52' 38" W. To Cor. No.1 and the place of beginning.
	TRENCH NO.5 lode.
	Beginning at Cor. No.1 , identical with a corner of the location and Cor. Nos. 2, 3 and 4, Trench No.6, Trench No.3 and Trench No.4 lodes respectively of this Sur., heretofore described, from which the Cor. to Secs. 32 and 33, T. 22 and 23 S., R. 16 E. brs. N.15°51'E., 3846.52 ft. dist.
	Thence S. 34°03'W.
300.00	To W. end center, identical with the Loc. Mon. and E. end center Trench No.4 lode of this Sur., heretofore described.
600.00	To Cor. No.2, identical with the Loc. Mon. and Cor. No.3, Trench No.4 lode of this Sur., heretofore described.
	Thence S. 54°58'10" E.
480.0	Road brs. northeasterly.
540.0	Gulch 40 ft. wide brs. northeasterly.
1500.0	To Cor. No.3, identical with a corner of the location, where I- Set an iron post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground, and surrounded with md of stone, stamped 3 T. No.5 - 4222. An oak tree 9 ins. diam. brs. N.55°E., 8.8 ft. dist., blazed and scribed 3 T. No.5 B.T. No other bearings are available. Thence N.34°03'E.
300.0	To E. end center, identical with the Loc. Mon. Where I - Set an oak post 4 ins. diam. 4 ft. high, set firmly in the ground and surrounded with md of stone, scribed E. Cr. T. No.5.
600.00	To Cor. No.4, identical with a corner of the Loc. and Cor. No.3, Trench No.6 lode of this Sur. Where I- Set an iron post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground, and surrounded with md of stone stamped 4 T. No.5, 3 T. No.6 - 4222 No bearings are available. Thence N. 54°58' 10" W..
720.0	Gulch 40 ft. wide brs. northeasterly.
800.0	Road brs. northeasterly.
1500.00	To Cor. No.1, and the place of beginning.

9

Feet.

MINERAL SURVEY No.4222
TRENCH No. 6 lode.

Beginning at Cor. No.1, identical with a corner of the location and Cor. Nos. 2, 3 and 4, Trench No.7, Trench No.2 and Trench No.3 lodes respectively of this Sur., heretofore described, from which the Cor. to Secs. 32 and 33, T. 22 ~~and 23~~ S., R. 16 E. brs. N. 12° 34' 36" E., 3281.95 ft. dist.

Thence S. 34° 03' W.

300.00 To W. end center, identical with the Loc. Mon. and E. end center Trench No.3 lode of this Sur., heretofore described.

600.00 To Cor. No.2, identical with a corner of the location and Cor. Nos. 3, 4 and 1, Trench No.3, Trench No.4 and Trench No.5 lodes respectively of this Sur., heretofore described.

Thence S. 54° 58' 10" E.

700.0 Road brs. northeasterly.

780.0 Gulch 40 ft. wide brs. northeasterly.

1500.0 To Cor. No.3, identical with a corner of the Loc. and Cor. No.4 Trench No.5 lode of this Sur. heretofore described.

Thence N. 34° 03' E.

300.0 To E. end center, identical with the Loc. Mon. Where I-

Set an oak post 4 ins. diam. by 4 ft. high, set firmly in the ground and surrounded with md. of stone, scribed E. Cr. T. No.6.

600.00 To Cor. No.4, identical with a corner of the Loc. and Cor. No.3, Trench No.7 lode of this Sur. where I-

Set an iron post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground, and surrounded with md. of stone, stamped 4 T. No.6, 3 T. No.7 - 4222.

No bearings are available.

Thence ^{N.} 54° 58' 10" W.

510.0 Gulch 40 ft. wide brs. northeasterly.

570.0 Road brs northeasterly.

1500.00 To Cor. No.1 and the place of beginning.

TRENCH No.7 lode.

Beginning at Cor. No.1, identical with Cor. No.4, Trench No.2 lode of this Sur., and on line 3-4, Lot No.37 A Trench lode, heretofore described.

From which, the Cor. to Secs. 32 and 33, T. 22 ~~and 23~~ S., R. 16 E. brs. N. 8° 8' 6" E., 2749.0 ft. dist.

Loc. Mon. brs. N. 34° 03' E., 18.44 ft. dist.

Thence S. 34° 03' W.

Feet.	MINERAL SURVEY No.4222 TRENCH No.7 lode, Cont'd.
281.56	To W. end center, identical with the Loc. Mon. and E. end center Trench No.2 lode of this Sur., heretofore described.
581.56	To Cor. No.2, identical with a corner of the Loc. and Cor. Nos. 3, 4 and 1, Trench No.2, Trench No.3 and Trench No.6 lodes respectively of this Sur., heretofore described.
Thence S.54°58'10"E	
930.0	Road brs. northeasterly.
990.0	Gulch 40 ft. wide brs. northeasterly.
1500.00	To Cor. No.3, identical with a corner of the Loc. and Cor. No.4 Trench No.6 lode of this Sur., heretofore described.
Thence N.34°03'E.	
300.00	To E. end center, identical with Loc. Mon. in gulch, course northwest erly, where I-
Set an oak post 4 ins diam. by 4 ft. high, set firmly in the ground and surrounded with md of stone, scribed E. Cr. T. No.7. This is amply protected from floods with large boulders and natural ledge of rock.	
600.0	To Cor. No.4, identical with Loc. Mon. on line 2-3, Trench Extension No.1 lode of this Sur. at N.56°02'W., 96.77 ft. from Cor. Mo. 3
Where I-	
Set an iron post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md. of stone stamped 4, T. No.7 - 4222.	
No bearings are available.	
Thence N. 56°02'W.	
209.80	Road brs northeasterly.
254.80	Gulch 40 ft. wide brs. northeasterly.
-744.8	Road brs. northwesterly.
1044.8	To Cor. No.5, identical with Cor. No.2, Trench Extension No.1 lode of this Sur. and Cor. No.3 Lot No.37 A, Trench Lode, Where I-
Set an iron post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md of stone, stamped 5, T. No.7, 2 T. Ex No.1, 3 T, Lot 37 A.	
No bearings are available.	
Thence N.54°50'56"W.	
455.06	To Cor. No.1 and the place of beginning.
TRENCH NO. 8 lode	
Beginning at Cor. No.1 of the Trench No.8 lode, identical with a corner of the location, on line 1-2, Trench Extension No.3 lode of this Sur. Where I -	

11

Feet.	MINERAL SURVEY No.4222 TRENCH No.8 lode. Cont'd
	<p>Set an iron post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md. of stone stamped 1 T. No.8 - 4222, from which the Cor. to Secs 32 and 33, T.22 and 23 S., R. 16 E. brs. N.26°49'55" E., 1424.84 ft. dist.</p> <p>Cor. No.3, Sur. No.929 Norton lode, claimant unknown brs.S.36°08'55"W., 269.94 ft. dist. bearings are available.</p> <p>No other bearings are available</p> <p>Thence S. 34°03'W.</p>
138.73	To Cor. Nos. 1 and 2, Trench Extension No. 2 and Trench Extension No 3 lodes respectively of this Sur., hereinafter described.
218.73	Road brs. westerly.
238.60	Intersect line 3-5, Sur. No.929, Norton lode at N. 51°38' 37" E., 32.68 ft. from Cor. No. 3
290.00	Wash 20 ft. wide brs. northwesterly.
300.00	To E. end center, identical with Loc. Mon. Where I-
	<p>Set a pine post 4 ins. sq by 4 ft. high, set firmly in the ground and surrounded with md of stone, scribed E. Cr. T. No.8.</p>
438.73	To W. end center Trench Extension No.2 lode of this Sur., hereinafter described.
600.00	To Cor. No.2, identical with a corner of the location and Cor. No.1 Josephine lode of this Sur. , heretofore described.
	Thence N. 56°39'W.
250.0	Gulch 20 ft wide brs. northeasterly.
310.0	Road brs. northeasterly.
1500.0	To Cor. No.3, identical with a corner of the loc. and Cor. No.4, Josephine lode of this Sur. , heretofore described.
	Thence N.34°03'E.
300.00	To W. end center, identical with Loc. Mon. Where I-
	<p>Set a pine post 4 ins. sq by 4 ft. high, set firmly in the ground and surrounded with md of stone, scribed W. Cr. T. No.8</p>
600.0	To Cor. No.4, identical with a corner of the location, Where I-
	<p>Set an iron post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md. of stone stamped 4 T. No.8 - 4222</p> <p>No bearings are available.</p> <p>Thence S. 56°39'E.</p>
970.4	Intersect line 2-3 , Sur. No.929, Norton lode at S.29°04'54"E., 901.44 ft. from Cpr. No.2 and N. 2904'54"W.,582.57 ft. from Cor. No.3.
1100.0	Road brs. northwesterly.
1140.0	Gulch 35 ft. wide brs. northwesterly.
1500.0	To Cor. No.1, and the place of beginning.

Feet.

MINERAL SURVEY No.4222

TRENCH EXTENSION NO 1

Beginning at Cor. No.1 of the Trench Extension No.1 lode, identical with a corner of the location and the E. end center Trench Extension No.2 lode, on line 2-3, Hardshell No.7 lode of this Sur.

Where I-

Set an iron post 2 ins. diam. with lead cap on top, 24 ins. above ground, ~~set~~ 18 ins. in the ground and surrounded with md of stone, Stamped 1 T. Ex. No.1, E.Cr.T. Ex No.2 - 4222, from which the Cor. to Secs. 32 and 33, T.22 and ~~23~~ S., R.16E., brs.N.7°18'43"W., 2506.61 ft. dist. No other bearings are available.

Thence S. 34°03'W.

300.0 To W. end center, identical with Loc. Mon. and Cor. No.3, Trench Extension No.2 lode of this Sur. and Cor. No.2 Lot. No.37 A Trench lode, Where I-

Set an iron post 2 ins. diam. with lead cap on top, 24 ins. above ground, ~~set~~ 18 ins. in the ground and surrounded with md of stone, Stamped W. Cr. T. Ex No.1, 3 T. Ex No.2 - 4222, 2 T- Lot 37 A.

No bearings are available.

600.0 To Cor. No.2, identical with a corner of the location, ~~and~~ Cor. No.5 Trench No.7 lode of this Sur. and Cor. No.3 Lot No.37 A, Trench lode., heretofore described.

Thence S. 56°02' E.

300.0 Road brs. northwesterly.

790.0 Gulch 40 ft. wide brs. northeasterly.

835.0 Road brs. northeasterly.

1044.8 To Cor. No.4 Trench No.7 lode of this Sur., heretofore described.

1141.57 To Cor. No.3 Where I-

Set an iron post 2 ins. diam. with lead cap on top, 24 ins. above ground, ~~set~~ 18 ins. in the ground and surrounded with md of stone, stamped 3 T. EX No.1 - 4222.

Loc Mon brs. S. 56°02' E. 358.0 ft. Consisting of a md of stone.

Thence N.34°03'E.

300.00 To E. end center, identical with Loc. Mon. Where I-

Set an oak post 4 ins. diam. by 4 ft. high, ~~set~~ firmly in the ground and surrounded with md of stone, scribed E. Cr. T. EX No.1

Loc. Mon. brs. S. 56°02'E. 358 ft. dist. Consisting of a md of stone.

476.60 To Cor. No.4, identical with Cor. No.3 Hardshell No.7 lode of this Sur. and Cor. No.4 Lot No.38 A. Alta lode, heretofore described.

Loc. Mon. brs. S. 75° E. 380.0 ft. dist. Consisting of a md of stone.

13

Feet.	MINERAL SURVEY No.4222 TRENCH EXTENSION NO. 1 lode, Cont'd.
	Thence N. 49° 51' 46" W.,
19.91	Gulch 40 ft. wide brs. northeasterly.
39.91	Road brs. northeasterly.
961.91	Road brs. northerly.
1148.04	To Cor. No.1 and the place of beginning.
	TRENCH EXTENSION NO2 lode
	Beginning at Cor. No.1, identical with a corner of the location and Cor. No.2 Trench Extension No.3 lode of this Sur., on line 1-2 Trench No.8 lode of this Sur. Where I-
	Set an iron post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md of stone, stamped 1 T. Ex. No.2, 2 T. Ex. No.3 - 4222, from which the Cor. to Secs. 32 and 33, T. 22 and 23 S., R. 16 E. brs. N.27°28'16" E., 1562.58 ft. dist.
	Cor. No.3 Sur. No.929 Norton lode brs. S.38°21'44" W., 131.40 ft. dist.
	An oak tree 8 ins. diam. brs. N.6°30'W. 16.3 ft. dist.
	No other bearings are available.
	Thence S. 34°03'W.
80.0	Road brs. westerly
99.87	Intersect line 3-5 Sur. No.929 Norton lode at N.51°38'37"E., 32.68 ft. from Cor. No.3.
151.27	Wash 20 ft. wide brs. northwesterly.
161.27	To E. end center, Trench No.8 lode of this Sur., heretofore described.
300.00	To W. end center, identical with Loc. Mon, Where I-
	Set a pine post 4 ins. sq by 4 ft. high, set firmly in the ground and surrounded with md. of stone, scribed W. Cr. T. EX No.2
461.27	To Cor. Nos. 1 and 2, Josephine and Trench No.8 lodes respectively of this Sur., heretofore described.
600.00	To Cor. No.2, identical with a corner of the location and Cor. No.1 Lot No.37 A, Trench lode Where I-
	Set an iron post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md of stone, stamped 2 T. EX No.2 -4222, 1 Lot No.37 A
	No bearings are available.
	Thence S. 54°49'36" E.
1477.61	To Cor. No.3, identical with a corner of the location and W. end center Trench Extension No.1 lode of this Sur. and Cor. No.2 lot No. 37 A. Trench lode, heretofore described.

Feet.	<p style="text-align: center;">MINERAL SURVEY No.4222 TRENCH EXTENSION No.2 lode Cont'd.</p>
	Thence N. 34°03'E.
300.00	To E. end center, identical with Loc. Mon. and Cor. No.1, Trench Extension No.1 lode of this Sur., on line 2-3 Hardshell No.7 lode of this Sur. <u>Heretofore described, and intersect</u>
550.0	Road brs. northwesterly.
600.0	To Cor. No.4, identical with a corner of the location and Cor. No.3 Trench Extension No.3 lode of this Sur. Where I- Set an iron post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground, and surrounded with md of stone, stamped 4 T. Ex. No.2, 3 T. Ex. No.3 - 4222 Cor. No.2 Hardshell No.7 lode of this Sur. brs. S. 97°09'11" W., 437.52 ft. dist. A juniper tree 5 ins. diam. brs. S. 11°E., 3.4 ft. dist., blazes and scribed 3-4-4222 B T No other bearings are available.
	Thence N. 54°49'36"W.
330.11	Intersect line 1-2, Hardshell No.7 lode of this Sur. at N. 38°16' E. 269.88 ft. from Cor. No.2
1446.13	Intersect line 3-5 Sur. No.929 Norton lode at N. 51°38'37" E., 136.81 ft. from Cor. No.3
1477.61	To Cor. No.1 and the place of beginning.
	TRENCH EXTENSION No.3 lode.
	Beginning at cor. No.1, identical with a corner of the location Where I- Set an iron post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md. of stone, stamped 1 T. EX No.3 -4222, from which the Cor. to Secs. 32 and 33 T. 22 and 25 S., R. 16 E. brs. N. 23°24'11"E., 968.96 ft. dist. Cor. No.5, Sur. No.929 Norton lode brs. S. 6°59'14" E., 247.76 ft. dist. No other bearings are available.
	Thence S. 34°03'W.
98.75	Intersect line 5-6 Sur. No.929 Norton lode at N. 27°30'W., 185.01 ft. from Cor. No.5.
300.0	to W. end center, identical with Loc. Mon. Where I- Set a pine post 4 ins. sq by 4 ft. high, set firmly in the ground and surrounded with md of stone, scribed W. Cr. T. Ex. No.3
461.27	To Cor. No.1, Trench No.8 lode of this Sur. heretofore described.
600.0	To Cor. No. 2, identical with a corner of the Loc. and Cor. No.1 Trench Extension No.2 lode of this Sur., heretofore described.

15

Feet.	MINERAL SURVEY No.4222 TRENCH EXTENSION NO. 3 lode Cont'd.
	Thence S.54°49'36"E.
31.48	Intersect line 3-5, Sur. No.929 Norton Lode at N.51°38'37"W. E. 156.81 ft. from Cor. No.5 and S.51°38'37"W., 434.04 ft. from Cor. No.5.
1147.5	Intersect line 1-2 Hardshell No.7 lode of this Sur.
1477.61	To Cor. No.3, identical with a corner of the Loc. and Cor. No.4 Trench Extension No.2 lode of this Sur. heretofore described.
	Thence N.34°03'E.
300.0	To E. End center, identical with Loc. Mon. Where I- Set a pine post 2 x 4 ins. set firmly in the ground and surrounded with md of stone scribed E. Cr. T. Ex. No.3 .
303.09	Intersect lines 4 -1 and 2--3, Hardshell No.7 and Trench Extension No.4 lodes of this Sur.
600.00	To Cor. No.4, identical with a corner of the location Where I - Set an iron post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md of stone stamped 4 T. Ex. No.3 - 4222 Cor. Nos. 1 and 2, Hardshell No.7 and Trench Extension No.4 lodes of this Sur. Brs. N.83°12'44" E., 404.17 ft. dist. An oak tree 8 ins. diam. brs. S.55°W., 9.9 ft. dist., blazed and scribed 4- 4222 Bt. No other bearings are available. Thence N.54°49'36" W.
285.94	Intersect line 1-2 , Trench Extension No.4 lode of this Sur.
1477.61	To Cor. No.1 and the place of beginning.
	TRENCH EXTENSION No.4 lode.
	Beginning at Cor. No.1, identical with a corner of the location, Where I- Set an iron post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md of stone, stamped 1 T. Ex. No.4 - 4222 from which the Cor. to Secs. 32 and 33 T. 22 and 23 S., R. 16 E. brs. N.31°03'22" W., 1537.51 ft. dist. An oak tree 10 ins. diam. brs: S. 3°30'E., 22.3 ft. dist. blazed and scribed 1-4222 B T No other bearings are available.

Feet.

MINERAL SURVEY No.4222
TRENCH EXTENSION No.4 lode Cont'd.

Thence S. 38°16'W.

300.00 To W. end center, identical with Loc. Mon. Where I-

Set a pine post 4 ins. sq by 4 ft. high, set firmly in the ground and surrounded with md of stone, scribed W. Cr. T. Ex. No.4

329.37 Intersect line 4-1 Trench Extension No.3 lode of this Sur.

600.00 To Cor. No.2, identical with a corner of the location, heretofere described.

Thence S. 49°51'46" E

307.51 Intersect line 3-4 Trench Extension No.3 lode of this Sur.

1299.91 Road brs. northeasterly.

1349.91 Gulch 40 ft. wide brs. northerly.

1499.91 To Cor. No.3, identical with a corner of the location, and Cor. No.4 Hardshell No.7 lode of this Sur., and Cor. No.1 Lot No.38 A, Alta lode, heretofore described.

Thence N. 38°16'E.

300.0 To E. end center, identical with Loc. Mon. Where I -

Set a pine post 4 ins. sq by 4 ft. high, set firmly in the ground and surrounded with md of stone, scribed E. Cr. T Ex. No.4.

600.00 To Cor.. No.4, identical with a corner of the location. Where I-

Set an iron post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md of stone stamped 4 T. EX No.4 - 4222.

An oak tree 8 ins. diam. brs. S. 81° E., 12.7 ft. dist. blazed and scribed 4 -4222 BT.

No other bearings are available.

Thence. N.49°51'46" W.

460.0 Road in gulch 40 ft. wide brs. northeasterly.

1499.91 To Cor. No.1 and the place of beginning.

175

MINERAL SURVEY No.4222

LODE LINES.

The presumed course of the vein of each of the several lode locations embraced in this survey, counted from the respective points of discovery is as follows:

- Hardshell No.7 lode ,S.49°51'46"E.,450.0 ft.;and N.49°51'46"W.,1049.91 ft
- Josephine lode, S.56°39'E., 270.0 ft. and N.56°39'W., 1230 ft.
- Trench No.2 lode, S.55°52'38"E.,210.0ft.;and N55°52'38"W.,1289.47 ft.
- Trench No.3 lode, N.55°52'38"W.,200.0 ft.;and S55°52'38"E.,1299.47 ft.
- Trench No.4 lode, N.55°52'38"W.,680.0 ft.;and S.55°52'38"E.,819.47ft.
- Trench No.5 lode, N.54°58'10"W.,250.0 ft.;and S.54°58'10"E.,1250 ft.
- Trench No.6 lode, N.54°58'10"W.,400.0 ft.;and S.54°58'10"E.,1100.0 ft.
- Trench No.7 lode N.54°58'10"W.,300.0 ft.;and S.54°58'10"E.,1200.0 ft.
- Trench No.8 lode N.56°39'W.,750.0 ft.;and S.56° 39'E., 750.0 ft.
- Trench Extension No.1 lode,N.56°02'W.,300.0 ft.;and S.56°02'E.,841.57 ft.
- Trench Extension No.2 lode,S.54°49'36"E.,400 ft.;and N.54°49'36"W., 1077.61 ft.
- Trench Extension No.3 lode,S.54°49'36"E.,400 ft.;and N54°49'36"W., 1077.61 ft.
- Trench Extension No.4 lode,N.49°51'46" W., 120.0 ft.; and S.49°51'46" E., 1379.91 ft.

AREAS.

	Acres.
Total area, Hardshell No.7 lode -----	20.649 ✓
Area in conflict with-	
Trench Extension No.2 lode of this Sur -----	2.226
Total area, Josephine lode -----	20.649 ✓
Area in conflict with-	
Trench No.2 lode of this Sur. -----	1.789
Total area Trench No.2 lode -----	20.476
Total area Trench No.3 lode -----	20.654
Total area,Trench No.4 lode -----	20.654 ✓
Total area, Trench No.5 lode -----	20.658 ✓
Total area, Trench No.6 lode -----	20.658 ✓
Total area, Trench No.7 lode -----	20.228 ✓
Total area, Trench No.8 lode -----	20.660
Area in conflict with -	
Sur. No.929 Norton lode -----	1.666 ✓
Total area, Trench Extension No.1 lode -----	14.107 ✓
Total area, Trench Extension No.2 lode -----	20.349

MINERAL SURVEY No.4222

Areas Cont'd.

	Acres
Area in conflict with- Sur. No.929, Norton lode -----	0.036
Total area, Trench Extension No.3 lode -----	20.349
Area in conflict with - Hardshell No.7 lode of this Sur. -----	2.313
Area in conflict with- Trench Extension No.4 lode of this Sur -----	1.929
Area in conflict with- Sur. No.929 Norton lode -----	1.086
Total area, Trench Extension No.4 lode -----	20.649

LOCATION.

This survey is located in the W. 1/2 Sec. 4 and the E. 1/2 Sec. 5 T. 23 S. R.16 E. , Unsurveyed, in the Coronado National Forest.

The Survey is identical with the location as staked upon the ground.

EXPENDITURE OF \$500.0

I certify that 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 is not less than \$500. and that said improvements consist of;

- No.1 The discovery shaft of the Hardshell No.7 lode, is on the center line 450 ft. from the center of line 3-4, 4x6 ft., 10 ft. deep, (caved).
Value \$100
- No.2 A shaft, the center of which brs. from Cor. No.3, Hardshell No.7 lode , N.17°30'W., 470 ft., 4 x 6 ft., 10 ft. deep.
Value \$100.
- No.3 A tunnel, the mouth of which brs. N.30°15'W. 490.0 ft. from Cor. No.3 Hardshell No.7 lode, 5 x 7 ft. in size running N.30°E., 40 ft. to breast. (caved)
Value \$400.0
- No.4 A Cut, the mouth of which brs. N.35°W., 630 ft. from Cor. No.3 Hardshell No.7 lode, 5 ft. wide, running N. 45°W., 15 ft. to 8 ft. face.
Value \$100.0
- No.5 A shaft, the center of which brs. S.55°45'E., 150 ft. from Cor. No.2 Hardshell No.7 lode, 4 x 6 ft., 50 ft. deep. (Caved)
Value \$500.0
- No.6 An undivided 1/14 interest in improvement No.4, Josephine lode , hereinafter described, credited to this lode/
Value \$5254.59
- A shaft, the center of which brs. from Cor. No.2 Hardshell No.7 lode S. 56° E. 99.8 ft. dist., 4 x 6 ft., 10 ft. deep.
Value \$100.0

MINERAL SURVEY NO. 4222
EXPENDITURE OF \$500. Continued.
JOSEPHINE Lode.

No.1 The discovery point of the Josephine lode is on the lode line 270 ft. from a point on line 1-2, 300 ft. from Cor. No.1, a md of stone on outcrop.

No. value

No.2 A shaft, the center of which brs. N.14°40'W., 340 ft. from Cor. No.2 4 x 6 ft. 10 ft. deep.

Value \$100.0

No.3 A trench, the E. end of which brs. from Cor. No.2, N.33°40'W., 550 ft. 5 ft. wide, 10 ft. deep, running N.67°15'W., 125 ft. to W. end.

Value \$1250.

No.4 An interest in a common improvement described as follows:

A shaft 7 x 12 ft., 700 ft. deep, the center of which brs. from Cor. No. 2 N.13°27'W., 520 ft.

At the 300 ft. level is a cross-cut 5 x 7 ft. in size, running

N.36°15'E., 86 ft. to Sta. 301
thence S.76°50'E., 22 ft. to Sta. 302
thence S.57°45'E., 47 ft. to Sta. 303
thence S.86°00'E., 35 ft. to Sta. 304
thence S.28°30'E., 29 ft. to Sta. 305
thence S.51°15'E., 30 ft. to Sta. 306
thence S.75°30'E., 43 ft. to Sta. 307
thence S.34°45'E., 17 ft. to Sta. 308
thence S 3°30'W., 35 ft. to Sta. 309
thence S. 9°30'E., 34 ft. to Sta. 310
thence S.11°15'W., 60 ft. to Sta. 311
thence S.10°15'E., 20 ft. to Sta. 312
thence S.23°30'E., 22 ft. to Sta. 313 in east and west drift.

At Sta. 313 is a drift 5 x 7 ft. in size running

S.74°30'E., 55 ft. to Sta. 1 E
thence S.81°30'E., 32 ft. to Sta. 2 E.
thence S.74°00'E., 77 ft. to Sta. 3 E.
thence N.58°30'E., 15 ft. to Sta. 4 E.
thence S.80°30'E., 40 ft. to Sta. 5 E.
thence S.73°15'E., 38 ft. to Sta. 6 E.
thence S.60°45'E., 70 ft. to Sta. 7 E
thence S.77°15'E., 35 ft. to Sta. 8 E.
thence S.65°00'E., 90 ft. to Sta. 9 E.
thence S.52°50'E., 98 ft. to Sta. 10 E.
thence S.87°30'E., 31 ft. to Sta. 11 E.
thence S.42°30'E., 36 ft. to Sta. 12 E.
thence S.64°45'E., 61 ft. to Sta. 13 E.
thence S.32°00'E., 27 ft. to Sta. 14 E
thence S. 71°30'E., 130.0 ft. to breast.

At Sta. 313 is a drift 5 x 7 ft. in size, running

N.89°00'W., 52 ft. to Sta. 1 W.
thence S.84°45'W., 44 ft. to Sta. 2 W.
thence N.86°30'W., 49 ft. to Sta. 3 W.
thence N.80°15'W., 48 ft. to Sta. 4 W.
thence N.83°45'W., 123 ft. to Sta. 5 W.
thence N.87°30'W., 170 ft. to breast.

At the 500 ft. level is a cross cut 5 x 7 ft. in size running

N.30°00'E., 45 ft. to Sta. 501
thence N.23°30'E., 126 ft. to Sta. 502
thence N.23°30'E., 16 ft. to Sta. 504
thence N.23°30'E., 211 ft. to a point
thence N.58°30'E., 23 ft. to a point
thence N.78°30'E., 40 ft. to breast.

MINERAL SURVEY NO. 4222

EXPENDITURE OF \$500

JOSEPHINE lode Cont'd.

At Sta. 502 is a cross-cut 5 x 7 ft. in size running
 S. 73°15' E., 35 ft. to Sta. 503
 thence West 33 ft. to Sta. 505
 thence S. 58°00' E., 52 ft. to Sta. 506
 thence S. 45°00' E., 62 ft. to Sta. 507
 thence S. 55°55' E., 38 ft. to Sta. 508
 thence S. 52°00' E., 28 ft. to Sta. 509
 thence S. 89°00' E., 52 ft. to Sta. 510
 thence S. 45° 30' E., 49 ft. to Sta. 511
 thence S. 19°45' E., 15 ft. to Sta. 512
 thence S. 10°15' W., 36 ft. to Sta. 513
 thence S. 70°00' W., 21 ft. to Sta. 514
 thence S. 14°30' E., 62 ft. to Sta. 515
 thence S. 6°30' E., 54 ft. to Sta. 516 in east and west drift.

At Sta. 516 is a drift 5 x 7 ft. in size running

S. 83°00' E., 41 ft. to Sta. 1 E.
 thence S. 77°55' E., 49 ft. to Sta. 2 E.
 thence S. 85°30' E., 25 ft. to Sta. 3 E.
 thence N. 84°15' E., 21 ft. to Sta. 4 E.
 thence S. 84°30' E., 20 ft. to Sta. 5 E.
 thence S. 76°45' E., 40 ft. to Sta. 6 E.
 thence S. 74°45' E., 30 ft. to Sta. 7 E.
 thence S. 51°00' E., 34 ft. to Sta. 8 E.
 thence S. 53°00' E., 50 ft. to Sta. 9 E.
 thence S. 56°30' E., 80 ft. to Sta. 10 E.
 thence S. 65°00' E., 22 ft. to Sta. 11 E.
 thence S. 65°15' E., 98 ft. to Sta. 12 E.
 thence S. 57°45' E., 73 ft. to Sta. 13 E.
 thence S. 50°00' E., 140 ft. to Sta. 14 E.
 thence S. 75°00' E., 40 ft. to Sta. 15 E.
 thence S. 69°30' E., 75 ft. to breast.

At Sta. 516 is a drift 5 x 7 ft. in size running

N. 84°15' W., 75 ft. to Sta. 1 W.
 thence N. 78°00' W., 40 ft. to breast.

At Sta. 1 W is a drift 5 x 7 ft. in size running

S. 61°30' W., 18 ft. to 2 W.
 thence S. 85°45' W., 24 ft. to 3 W.
 thence N. 73°45' W., 74 ft. to 4 W.
 thence East 200 ft. to breast.

At Sta. 504 is a cross-cut 5 x 7 ft. in size running

N. 72°45' W., 14 ft. to Sta. 517
 thence N. 85°00' W., 100 ft. to Sta. 518
 thence N. 81°30' W., 92 ft. to Sta. 519
 thence N. 42°45' W., 75 ft. to Sta. 520
 thence N. 68°30' W., 100 ft. to breast.

At the 700 ft. level is a cross-cut 5 x 7 ft. in size running
 N. 46°00' E., 32 ft. to Sta. 701
 thence N. 23°45' E., 403 ft. to breast.

At Sta. 701 is a cross-cut 5 x 7 ft. in size running
 East, 515.0 ft. to breast

Value of shaft, cross-cuts and drifts \$73,563.

Value of 1/14 interest \$5,254.50

This improvement is in the course of construction for the development of the thirteen lodes of this survey and lot No. 37 A. Trench lode, which are all the contiguous lode claims owned in common within the range of benefit of said shaft.

The surface rises rapidly to the east and west from this shaft and all the discoveries of the various lode claims are above the collar of same and by drifting and cross-cutting towards and under the various claims afforded the most practical and economical means of developing each of the stated lodes at depth.

Five hundred dollars or over have been expended in this improvement in such a manner as tends to the development of each lode of this Sur.

MINERAL SURVEY No. 4222
EXPENDITURE OF \$500. Cont'd.

subsequent to its location and to the time since which common ownership and contiguity have prevailed; therefore an undivided one fourteenth interest in its value is hereby credited to each of said lodes of the common group.

No portion of or interest in this improvement has been credited heretofore as patent expenditures to any lode claim.

TRENCH No. 2 lode.

No. 1 The discovery shaft, the center of which being the discovery point is on the center line, 210 ft. from a point on line 3-4, 300 ft. from Cor. No. 3, 4 x 6 ft., 8 ft. deep.
Value \$100.

No. 2

No. 2 A cut, the mouth of which hrs. from Cor. No. 3, N. 12° 30' E., 290 ft. 4 1/2 ft. wide 8 ft. face, running N. 12° E. 15 ft. to face.
Value \$100.

No. 3 A shaft, the center of which hrs. from Cor. No. 3, N. 38° 45' W., 720 ft. 4 x 6 ft., 8 ft. deep.

Value \$100.

No. 4 A cut, the mouth of which hrs from Cor. No. 3, N. 39° 15' W., 760 ft. 4 1/2 ft. wide, 8 ft. face, running S. 75° W., 15 ft. to face.

Value \$100.

No. 5 A cut, the mouth of which is on the center line 675 ft. from a point on line 1-2, 300 ft. from Cor. No. 1. 4 1/2 ft. wide, 8 ft. face, running S. 75° W., 15 ft. to face.

Value \$100.

An undivided 1/14 interest in improvement No. 4, Josephine lode, heretofore described, credited to this lode.

Value \$5254.50

TRENCH NO. 3 lode.

No. 1 The discovery cut, the face of which being the discovery point is on the center line, 200 ft. from the center of line 1-2, 4 1/2 ft. wide 8 ft. face, running N. 65° E. 15 ft. to mouth.

Value \$100.0

No. 2 A cut, the mouth of which hrs. from Cor. No. 2, S. 70° 30' E., 550 ft. 4 1/2 ft. wide, 8 ft. face, running S. 80° E., 15 ft. to face.

Value \$100.0

An undivided 1/14 interest in improvement No. 4, Josephine lode, heretofore described, credited to this lode.

Value \$5254.50

TRENCH NO. 4 lode.

No. 1 The discovery shaft, the center of which being the discovery point is on the center line, 680 ft. from the center of line 1-2 4 x 6 ft., 8 ft. deep.

Value \$100.

No. 2 A shaft, the center of which hrs. from Cor. No. 4, N. 76° 30' W., 650 ft. 4 x 6 ft., 8 ft. deep (caved)

Value \$100.0

An undivided 1/14 interest in improvement No. 4, Josephine lode, heretofore described, credited to this lode.

Value \$5254.50

MINERAL SURVEY NO. 4222
EXPENDITURE OF \$500. Cont'd
TRENCH No.5 lode

- No.1 The discovery point , on the center line , 250 ft. from the center of line 1-2, A md of stone on outcrop.
No Value.
- No.2 A cut, the mouth of which brs. from Cor. No.1, S,15° E., 360 ft. 5 ft. wide, 8 ft. face running N.65°E., 15 ft. to face.
Value \$100.
- An undivided 1/14 interest in improvement No.4 Josephine lode, heretofore described, credited to this lode.
Value \$5254.50

TRENCH No.6 lode

- No.1 The discovery cut, the face of which being the discovery point, is on the center line, 400 ft. from the center of line 1-2, 5 ft. wide, 8 ft. face, running east 18 ft. to mouth.
Value \$100.0
- An undivided 1/14 interest in improvement No.4, Josephine lode, heretofore described, credited to this lode.
Value \$5254.50

TRENCH NO. 7 lode

- No.1 The discovery point, on the lode line, 300 ft. from a point on line 1-2; 281.56 ft. from Cor. No.1 A md of stone on outcrop.
No Value.
- No.2 A cut, the face of which is on the lode line, 175 ft. from a point on line 1-2, 281.56 ft. From Cor. No.1, 5 ft. wide 8 ft. face, running east 15 ft. to mouth.
Value \$100.
- An undivided 1/14 interest in improvement No.4, Josephine lode heretofore described, credited to this lode.
Value \$5254.50

TRENCH No.8 lode

- NO 1 The discovery cut, the mouth of which being the discovery point is on the center line 750 ft. from the center of line 1-2 , 5 ft. wide, 10 ft. face, running S. 55°E., 18 ft. to face.
Value \$100.0
- No.2 A cut, the mouth of which brs. from Cor. No.4, S.32°15'E., 820 ft. 4 1/2 ft. wide, 8 ft. face, running S. 45°E., 18 ft. to face.
Value \$100.0
- An undivided 1/14 interest in improvement No.4 Josephine lode heretofore described, credited to this lode.
Value \$5254.50

TRENCH EXTENSION No.1

- No.1 The discovery point, on the lode line , 300 ft. from a point on line 1-2, 300.0 ft. from Cor. No.1, A md of stone on outcropping.
No Value.
- No.2 A cut, the face of which is on the lode line, 250.ft. from a point on line 1-2, 300 ft. from Cor. No.1, 5 ft. wide, 8 ft. face, running S. 60° W., 15 ft. to mouth.
Value \$100.0
- No.3 A cut, the face of which is on the lode line, 220 ft. from a point on line 1-2, 300 ft. from Cor. No.1 5 ft. wide, 8 ft. face,

MINERAL SURVEY No.4222
EXPENDITURE OF \$ 500.0
TRENCH Extension No.1 lode Cont'd.

running S. 60° W., 18 ft. to mouth.
Value \$100.

No.4 A tunnel, the portal of which brs. from Cor. No. 2, N.61°33'E.,
360 ft. 4 x 6 ft. running N. 30°E., 50 ft. to breast.
Value \$500.

An undivided 1/14 interest in improvement No. 4 Josephine lode,
heretofore described, credited to this lode.
Value \$5254.50

TRENCH EXTENSION No.2 lode.

No.1 The discovery shaft, on the center line 400 ft. from the center of
line 3-4, 300 ft. from Cor. No.3. 4 x 6 ft. 10 ft. deep (caved)
Value. \$100

No.2 A out, the mouth of which is on the center line, 210 ft. from the
center of line 3-4, 5 ft. wide, 8 ft. face, running S. 60°W., 15 ft.
to face.
Value \$100.0

~~No.3 A shaft, the center of which brs. from Cor. No.3, N.2°30'W., 420 ft.
4 x 6 ft. 10 ft. deep.
Value \$100.0~~

An undivided 1/14 interest in improvement No.4, Josephine lode
heretofore described, credited to this lode.
Value \$5254.50

TRENCH EXTENSION NO. 3 lode

No. 1 The discovery shaft, the center of which being the discovery point
is on the center line 400 ft. from the center of line 3-4,
4 x 6 ft. 8 ft. deep.
Value \$100.

An undivided 1/14 interest in improvement No.4, Josephine lode
heretofore described, credited to this lode
Value \$5254.50

TRENCH EXTENSION No. 4 lode.

No.1 The discovery cut, the face of which being the discovery point
is on the center line 120 ft. from the center of line 1-2,
5 ft. wide, 8 ft. face, running west 15 ft. to mouth.
Value \$100.0

No.2 A cut, the face of which brs. from Cor. No.1, S.13°15'W., 260 ft.
5 ft. wide 6 ft. face (caved) running S.50°E., 15 ft. to mouth.
Value \$100.0

No.3 A cut, the face of which brs. from Cor. No.1, S. 16°E., 300 ft.
5 ft. wide, 6 ft. face (caved) running S. 40° E. 15 ft. to mouth
Value \$100.0

An undivided 1/14 interest in improvement No.4, Josephine lode
heretofore described, credited to this lode.
Value \$5254.50

MINERAL SURVEY No.4222

OTHER IMPROVEMENTS.

A frame office building, the S.E. Cor. of which brs. from Cor. No.1 Josephine lode N.61°54'W., 390 ft. dist. 14 x 40 ft. course of long sides north.

A frame dwelling, the S.E. Cor. of which brs. from Cor. No.1 Josephine lode N.65°39'W., 415 ft. dist. 28 x 36 ft., course of long sides N. 18° W.

A frame iron clad power house, the N.E. Cor. of which brs. from Cor. No.1 Josephine lode, N.78°39'W., 470 ft. 32 x 62 ft., course of long sides N.41°E.

A frame hoist house, the N.E. Cor. of which brs. from Cor. No.1, Josephine lode N.82°24'W., 400 ft. dist., 38 x 58 ft. course of long sides S. 43°W.

A frame, iron clad blacksmith shop, the N.E. Cor. of which brs from Cor. No.1 Josephine lode S. 88°06'W., 460 ft. dist., 18 x 43 ft. course of long sides S.45° W.

A frame, iron clad change room, the N.E. Cor. of which brs. from Cor. No.1 Josephine lode, S.83°36'W., 450 ft. dist. 20 x 30 ft. course of long sides S. 45° W.

An adobe house, the S.E. Cor. of which brs. from Cor. No.3, Trench Extension No.4 lode, N.64°34'W., 21.6 ft. dist. 30 x 32 ft. Course of long sides N.50°15 E.

An adobe house, the S.W. Cor. of which brs. from Cor. No.3, Trench Extension No.4 lode N.49°50'W., 115 ft. dist. 28 x 40 ft. course of long sides N.15° E.

An adobe house, the S.W. Cor. of which brs. from the S. end center Hardshell No.7 lode N.0°14' W., 134.5 ft. dist. 12 x 12 ft. course of sides N.85°E.

An adobe house, the S.W. Cor. of which brs. from the S. end center Hardshell No.7 lode N.1°24'W., 161 ft. dist. 12 x 12 ft. course of sides N.85°E.

All belonging to claimant herein.

OTHER CORNER DESCRIPTIONS.

I do not find the S. Sec. Cor. of Sec. 32, T.22 S., R.16 E., after diligent search therefor.

Sur. No.929 Norton lode. Cor. Nos. 6, 2 and 3 are mds. of stone with the bearing trees as described in the official record, Cor. No.5 is a 4 x 4 in oak post, 4 ft. high in md of stone, scribed N No.5 with 3 bearing trees.

I reset Cor. No.3 with a steel post 2 ins. diam. with lead cap on top, 24 ins above ground set 18 ins in the ground in the exact position of the old corner, stamped 3 N- 929

I find line 2-3 to be S.29°04'54" E., 1484 ft. instead of S.28°27'E. 1494 as approved.

Line 3-5 was found to be N.51°38'37" E., 570.85 ft. instead of N.52° E. 575.0 ft. as approved.

Line 5-6 is shown as approved.

Lot 37 A Trench lode, All four corners are very old stone monuments their bearing trees have been cut down but the stumps of the original bearing trees for Cor. Nos. 2 and 3 are still in place, all that remains of Cor. Nos. 1 and 4 are the old stone monuments with decayed posts.

I reestablished all four corners by setting iron posts 2 ins. diam. with lead caps on top as described in the foregoing field notes.

Line 1-2 was found to be S.54°49'36" E., 1477.61 ft. instead of S.55°45'E., 1500 ft. as approved.

25

MINERAL SURVEY No.4222

OTHER CORNER DESCRIPTIONS; Cont'd.

Line 2-3 was found to be S.34°03'W. instead of S. 34°15'W., as approved.

Line 3-4 was found to be N.54°50'56" W., 1477.63 ft. instead of N.55°45'W., 1500 ft. as approved.

Line 4 -1 was found to be N.34°03'E., 300.61 ft. instead of N.34°15'E. as approved. Same are properly given in these field notes.

Lot No.38 A. Alta lode . Cor. Nos. 1 and 4 were old stone monuments with bearing trees. A badly decayed 4 x 4 in post was found in the mon at Cor. No.4 but the scribing was not legible.

I set iron posts 2 ins. diam. with lead caps on top as described in the foregoing field notes. Line 4-1 was found to be N.38°16' E. 600 ft. instead of N.38°36'E., 599.94 as approved and same is properly given in these field notes.

ADJOINING CLAIMS.

On the North by Good Luck , and Hardshell No.10 lodes , unsurveyed, and Sur. No. 929, Norton lode.

On the East Hardshell No.6, Dago Queen, and Hardshell No.14 lodes unsurveyed, and Lot No.38 A. Alta lode.

On the South by Silver Leaf lode, unsurveyed.

On the West by Silver Leaf, South Humboldt, and Good Luck lodes unsurveyed, and Sur. No.929, Norton lode.

FINAL OATHS FOR SURVEYS

LIST OF NAMES

A list of the names of the individuals employed by T.N. Stevens

G.L.O.

~~United States~~ Mineral Surveyor, to assist in running, measuring, and marking the lines, corners, and boundaries described in the foregoing field notes of the survey of the mining claim of _____

American Smelting and Refining Company

known as the HARDSHELL No. 7, JOSEPHINE, TRENCH No. 2, TRENCH No. 3, TRENCH No. 4, TRENCH No. 5 TRENCH No. 6, TRENCH No. 7, TRENCH No. 8, TRENCH EXTENSION No. 1, TRENCH EXTENSION No. 2, TRENCH EXTENSION No. 3 and TRENCH EXTENSION No. 4 and showing the respective capacities in which they acted. lodes.

O.P. Olson, Chainman.

_____, Chainman.

_____, Axman.

_____, Flagman.

FINAL OATHS OF ASSISTANTS

~~We~~, I, O.P. Olson

I

~~and~~ _____, do solemnly swear that we assisted _____

T.N. Stevens

G.L.O.

~~United States~~ Mineral Surveyor, in marking the corners and surveying

the boundaries of the mining claim of American Smelting and Refining Company

HARDSHELL No. 7, JOSEPHINE, TRENCH No. 2, TRENCH No. 3, TRENCH No. 4,

TRENCH No. 5, TRENCH No. 6, TRENCH No. 7, TRENCH No. 8, TRENCH EXTENSION No. 1

known as the TRENCH EXTENSION No. 2, TRENCH EXTENSION No. 3, and TRENCH EXTENSION No. 4 lodes

represented in the foregoing field notes as having been surveyed by said mineral surveyor and under his

direction; and that said survey has been in all respects, to the best of our knowledge and belief, faithfully

and correctly executed, and the corner and boundary monuments established according to law and the instruc-

tions furnished by the Office Cadastral Engineer, at Phoenix, Arizona

O.P. Olson, Chainman.

_____, Chainman.

_____, Axman.

_____, Flagman.

Subscribed and sworn to by the above-named persons before me this 24th

day of March, 1939

My Commission expires 11/29/39

[Signature]
Notary Public

FINAL OATH OF ~~U.S.~~ MINERAL SURVEYOR, G.L.O.

I, T.N. Stevens, ~~U.S.~~ Mineral Surveyor, G.L.O.

do solemnly swear that, in pursuance of instructions received from the Office Cadastral Engineer, at Phoenix, Arizona, dated January 3, 1939,

I have, in strict conformity to the laws of the United States, the official regulations and instructions thereunder, and the instructions of said Office Cadastral Engineer, faithfully and correctly executed the survey of the mining claim of

American Smelting and Refining Company, known as the HARDSHELL No.7, JOSEPHINE, TRENCH No.2, TRENCH No.3, TRENCH No.4, TRENCH No.5, TRENCH No.6, TRENCH No.7, TRENCH No.8, TRENCH EXTENSION No.1, TRENCH EXTENSION No.2, TRENCH EXTENSION No.3 and TRENCH EXTENSION No.4 lodes situate in HARSHAW Mining District,

Santa Cruz County, Arizona, in Sections 4 and 5, Township No. 23 S., Range No. 16 E., Unsurveyed

and designated as Survey No. 4222, as represented

in the foregoing field notes, which accurately show the boundaries of said mining claim as distinctly marked by monuments on the ground, and described in the attached copy of the location certificate, which was received by me from the Office Cadastral Engineer with said instructions, and that all corners of said survey have been established and perpetuated in strict accordance with the law, official regulations and instructions thereunder; and I do further solemnly swear that the foregoing are the true and original field notes of said survey and my report therein, and that the labor expended and improvements made upon said mining claim by claimant or its

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

T.N. Stevens

(~~U.S.~~ Mineral Surveyor) G.L.O.

Subscribed and sworn to by the said

T.N. Stevens

~~U.S.~~ Mineral Surveyor, before me

O. J. Riebuy of

Tucson Arizona

this 24th

day of March, 1939

My Commission expires 11/29/39

O. J. Riebuy
Notary Public

OFFICE CADASTRAL ENGINEER'S FINAL CERTIFICATE ON FIELD NOTES

Department of the Interior

PUBLIC SURVEY OFFICE

Phoenix, Arizona,

May 5, 1939

I, Office Cadastral Engineer at Phoenix, Arizona

do hereby certify that the foregoing transcript of the Field Notes, return and approval of the survey of the mining claim of American Smelting and Refining Company, known as the HARDSHELL NO.7, JOSEPHINE, TRENCH NO.2, TRENCH NO.3, TRENCH NO.4, TRENCH NO.5, TRENCH NO.6, TRENCH NO.7, TRENCH NO.8, TRENCH EXTENSION NO.1, TRENCH EXTENSION NO.2, TRENCH EXTENSION NO.3, and TRENCH EXTENSION NO.4 lodes situate in Harshaw

Mining District Santa Cruz County Arizona

in Sections 4 & 5, Township No. 23 S., Range No. 16 E., Unsur, and designated as Survey No. 4222

has been correctly copied from the originals on file in this office; that said Field Notes furnish such an accurate description of said mining claim as will, if incorporated into a patent, serve fully to identify the premises, and that such reference is made therein to natural objects or permanent monuments as will perpetuate and fix the locus thereof.

I further certify that Five Hundred Dollars worth of labor has been expended or improvements made upon, or for the benefit of, each location embraced in said mining claim by claimant or its grantors,

and that said improvements consist of 11 shafts, 2 tunnels, 17 outs, and 5299 ft. of drifts and crosscuts, total value \$77,563.

and that no portion of said labor or improvements has been included in the estimate of expenditures upon any other claim.

I further certify that the plat thereof, filed in the U. S. Land Office at Phoenix, Arizona is correct and in conformity with the foregoing Field Notes.

Sherman C. Fiske

Office Cadastral Engineer.

CERTIFICATE OF APPROVAL OF FIELD NOTES AND SURVEY OF
MINING CLAIM

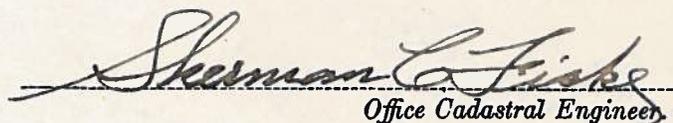
UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE
PUBLIC SURVEY OFFICE

At Phoenix, Arizona

May 5, 1939

I, Office Cadastral Engineer at Phoenix, Arizona

do hereby certify that the foregoing and hereto attached Field Notes and Return of the Survey of the Mining Claim of American Smelting and Refining Company, known as the HARDSHELL NO. 7, JOSEPHINE, TRENCH NO. 2, TRENCH NO. 3, TRENCH NO. 4, TRENCH NO. 5, TRENCH NO. 6, TRENCH NO. 7, TRENCH NO. 8, TRENCH EXTENSION NO. 1, TRENCH EXTENSION NO. 2, TRENCH EXTENSION NO. 3, and TRENCH EXTENSION NO. 4 lodes, situate in Harshaw mining district, Santa Cruz County, Arizona, in Sections 4 and 5, Township No. 23 S., Range No. 16 E., Unsur. designated as Survey No. 4222 executed by T. N. Stevens, U.S. Mineral Surveyor, G.L.O., January 23 - February 15, 1939, under my instructions dated January 3, 1939, have been critically examined and the necessary corrections and explanations made, and the said Field Notes and Return, and the Survey they describe, are hereby approved. The certified copy of the location certificate filed by the applicant for survey is on file in this office and a true copy of said certified copy of said location certificate is included and made a part of the transcript of the field notes.


Office Cadastral Engineer

Feet.

MINERAL SURVEY No.4222

SUPPLEMENTAL REPORT OF CORNER DESCRIPTION.

TRENCH NO. 2 Lode.

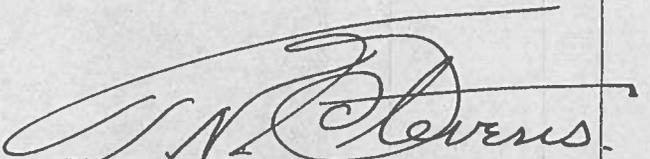
Cor. No.4, identical with Cor. No.1 Trench No.7 lode of this Sur.
On line 3-4, Lot No.37A., Trench lode at N.54°50'56"W., 455.06 ft.
from Cor. No.3 . Where I-

Set an iron post 2 ins. diam. with lead cap on top, 24 ins. above
ground, set 18 ins. in the ground and surrounded with md of stone,
Stamped 4 T. No.2, 1 T. No.7 - 4222.

Dated February 22, 1940
Tucson, Arizona.


Mineral Surveyor G.L.O.

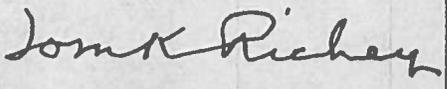
I, T.N. Stevens, Mineral Surveyor, G.L.O. for the District of Arizona ,
first being duly sworn, depose and say that the above Supplemental
Report is true and correct.


Mineral Surveyor, G.L.O.

State of Arizona)
(S S
County of Pima)

Subscribed and sworn to by said T.N. Stevens before me ,
a Notary Public in and for the County of Pima, State of Arizona, this
22nd day of February 1940 A.D.

My Commission Expires
January 30, 1942,


Notary Public.