

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

MINERAL SURVEY NO. 4340

Arizona Land District.

FIELD NOTES

Of The Survey Of The Mining Claim Of

CORONADO COPPER AND ZINC COMPANY

Known As The

Blue Grass, Arizona, Carlton, Enough and Puzzle lodes

Cochise Mining District,

Cochise County, Arizona

Sections 22 and 23, Township 15 South, Range 22 E., G. & S.R.M.

Surveyed under order dated August 1, 1949  
and amended " " " 11, 1949

by Edward L. Haff  
Mineral Surveyor.

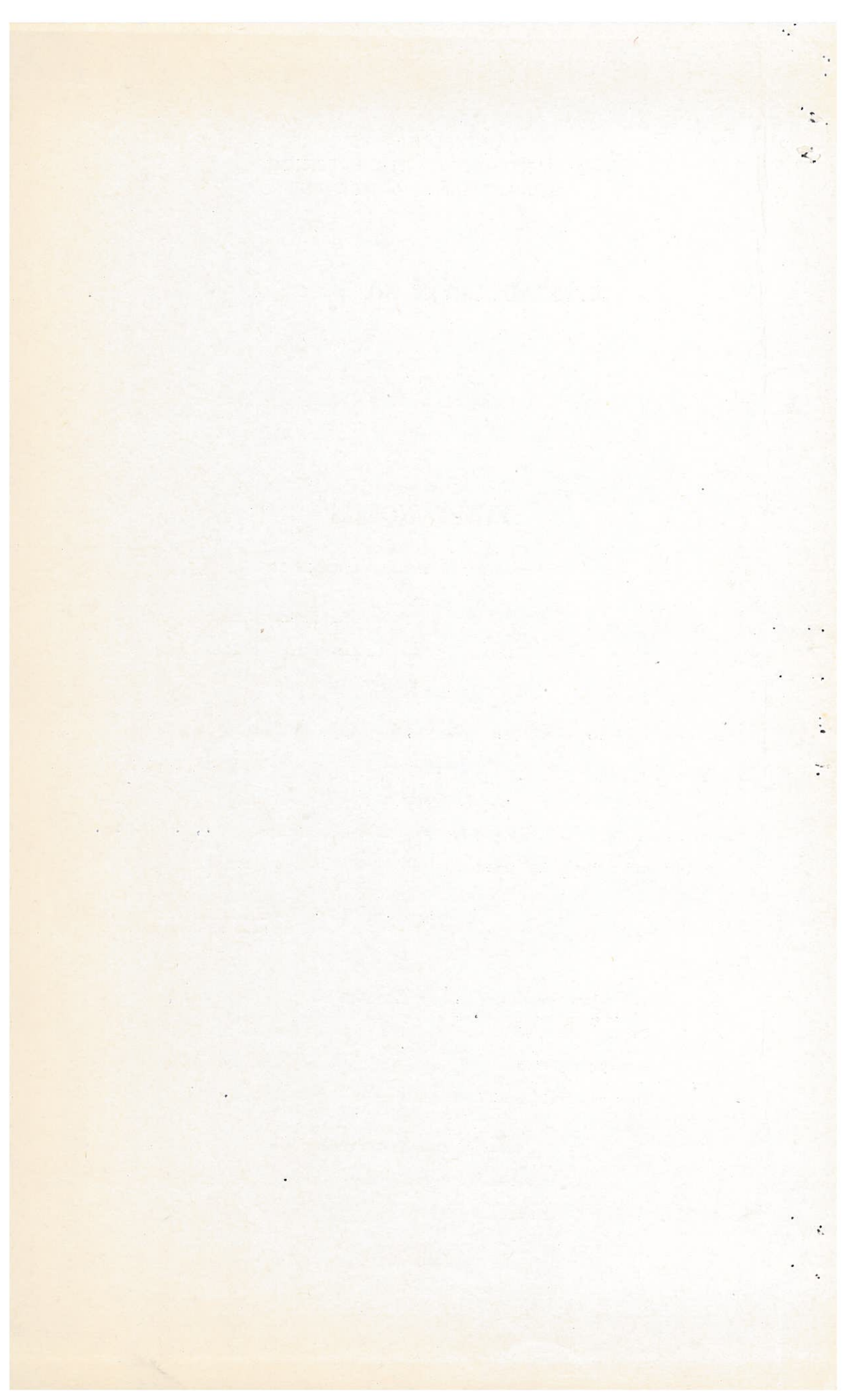
Claim located June 30, 1899, July 22, 1901,  
Jan. 1, 1902, Sept. 1, 1906 and March 31, 1923  
Survey commenced August 6, 1949

Survey completed August 15, 1949

Address of claimant 1206 Pacific Mutual Bldg.  
Los Angeles, California

DATES OF AMENDED LOCATIONS

All claims - August 6, 1949.



Survey No. 4340

This survey was made with a C. L. Berger & Sons, No. 2 Transit, with horizontal limb 5.65 ins. diam., having two double opposite verniers, and full vertical circle 5 ins. diam., having one double vernier; the verniers read to one minute of arc; the eyepiece is equipped with a colored shade 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 deflection angles referred to the meridian determined by the following observations:

August 7, 1949, at a corner of the Blue Grass lode back site on reference point 500 ft. SW in latitude 32° 06' N., and longitude 110° 04' 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 the center of the sun, and reading the horizontal angle from a reference point about 500 ft. southwesterly SE. to the center of the sun.

- Mean time of observation, 105th meridian standard time, = 9h26m a.m.
- Declination of sun at mean time of observation, = 16°23'55" N.
- Mean observed vertical angle to sun's center, = 46°25'50"
- Mean horizontal angle from reference point to sun's center, = 112°20' SE.
- True bearing to reference point, = S. 32°27' W.
- True bearing to sun's center, = S. 79°53' E.

The lines were measured with a standard steel tape 500 ft. in length graduated to feet, tenths, and hundredths for the first and last 5 ft. and the remainder at intervals of 5 ft., and a Keuffel and Esser steel tape 100 ft. in length graduated to feet, tenths and hundredths; both tapes were compared with a U. S. standard tape at the time of the beginning of the survey and found to be correct.

All lines and connections of this survey were run by direct methods where the lines are accessible; the inaccessible lines were run by traverse methods, as shown by the calculation sheets herewith submitted.

The magnetic declination observed at each corner of the survey gave a uniform value of 15° 30' E.

Feet

BLUE GRASS LODGE

Beginning at Cor. No. 1 of the Blue Grass lode, identical with Cor. Nos. 1 - 2, Survey No. 3242 Blue Lead and Little Bush lodes, and the NE Cor. of Survey No. 330 Mi-an-te-no-mah lode, claimant herein.

Set an iron post, 42 ins. long, 2 ins. diam.; 24 ins. in cement in the ground and in a mound of earth and stone, with an iron cap mkd. B.L.-1, L.B.-2 - 3242, NE Cor. M-330, and B.G.-1 - 4340 from which

The 1/4 Cor. between Secs. 23 and 26, T. 15 S., R. 22 E. Gila and Salt River Meridian bears S. 41° 34' 10" E. 734.36 ft. dist.; a limestone 8x10x26 ins. firmly set in a mound of earth and stone, mkd. and witnessed as described in the Official Record.

Thence N. 65° 02' W.

176.

Road, bears S. 17° 30' E. and N. 17° 30' W.

## Survey No. 4340

208.	Lode line; discovery point bears N. 32° 35' E., 525 ft. dist.
375.	Cor. No. 2, identical with Cor. No. 1 Arizona lode of this survey, and on the north side line of Survey No. 330 Mi-an-te-no-mah lode, claimant herein, set an iron post 42 ins. long, 2 ins. diam., 24 ins. in cement in the ground and in a mound of earth and stone mkd. B.G.2, A-1 - 4340.  No local bearing objects available.  Thence N. 32° 27' E.
200.	Road, bears S. 18° E. and N. 18° W.
300.	End center Arizona lode.
318	Road, bears N. 62° W. and S. 62° E.
451.40	Intersect line 3 - 4 Carlton lode of this survey.
480.	Dry gulch, 10 ft. wide, course S. 65° E.
586.24	Intersect line 4 - 5 Sur. No. 1717 Ross lode, claimant herein, a point from which Cor. No. 5 bears S. 58° 05' E., 90.40 ft. dist.
600.	Cor. No. 3, identical with Cor. No. 4 Arizona lode of this survey.  Set an iron post 42 ins. long, 2 ins. diam., 24 ins. in cement in the ground and in a mound of earth and stone mkd. B.G.-3, A - 4 - 4340, from which  Cor. No. 5 Sur. No. 1717 Ross lode bears S. 49° 25' E., 91.31 Ft. dist.  Thence N. 32° 46' 40" E.
20.	Road, bears S. 81° W. and S. 62° E.
140.93	Intersect line 2 - 3 Carlton lode of this survey.
405.88	Cor. No. 4.  Set an iron post 42 ins. long, 2 ins. diam., 24 ins. in cement in the ground and in a mound of earth and stone mkd. B.G.-4 - 4340, from which  Cor. Nos. 1 - 4 Sur. No. 1717 Ross and Dewey lodes, claimants herein, bears S. 53° 26' 20" E., 224.81 ft. dist.  Thence S. 65° 02' E.
113.23	Intersect lines 1 - 2 and 3 - 4 Sur. No. 1717 Ross and Dewey lodes at a point from which Cor. Nos. 1 - 4 bear S. 42° 07' 40" E., 116.14 ft. dist.
167.	Lode line; discovery point bears S. 32° 35' W., 480.88 ft. dist.
242.42	Intersect lines 4 - 1 and 3 - 4 Sur. No. 1717 Dewey and True Blue lodes, claimants herein, at a point from which Cor. No. 4 Dewey lode bears S. 51° 08' W., 50.34 ft. dist., and Cor. No. 3 True Blue lode bears S. 51° 08' W., 55.33 ft. dist.

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Feet 375.	<p>Cor. No. 5.</p> <p>Set an iron post 42 ins. long, 2 ins. diam., 24 ins. in cement in the ground and a mound of earth and stone mkd. B.G.-5 - 4340, from which</p> <p>Cor. No. 3, Sur. No. 1717 True Blue lode bears N. 82° 35' 20" W., 164.66 ft. dist.</p> <p style="text-align: center;">Thence S. 32° 35' W.</p>
97.52	<p>Intersect lines 2 - 3, Sur. No. 1717 True Blue lode and 3 - 4, Sur. No. 3242 North Star lode, claimant herein, at a point from which Cor. No. 3, Sur. No. 1717 True Blue lode bears N. 46° 58' W., 151.54 ft. dist., and Cor. No. 3, Sur. No. 3242 North Star lode, bears N. 46° 58' W., 157.99 ft. dist.</p>
405.88	<p>Cor. Nos. 2, Sur. No. 3242 North Star and Blue Lead lodes, from which Cor. No. 3 Sur. No. 3242 North Star lode, bears N. 7° 50' E. 371.10 ft. dist., and at 361.82 ft. intersect line 5 - 1 Sur. No. 1717 Ross lode, at 7.66 ft. S. 51° 08' W. from Cor. No. 3, True Blue lode.</p>
420.	<p>Road, bears S. 65° E. and N. 59° W.</p>
574.	<p>Gulch, 10 ft. wide, course S. 62° E.</p>
746.	<p>Road, bears S. 57° E. and N. 57° W.</p>
1005.88	<p>Cor. No. 1, and place of beginning.</p>
ARIZONA LODGE	
<p>Beginning at Cor. No. 1 of the Arizona lode, identical with Cor. No. 2 Blue Grass lode of this survey, from which</p> <p>The <math>\frac{1}{4}</math> Cor. between Secs. 23 and 26, T. 15 S., R. 22 E. Gila and Salt River Meridian bears S. 49° 27' 10" E., 1088.70 ft. dist.</p> <p style="text-align: center;">Thence N. 65° 02' W.</p>	
634.	<p>Road, bears S. 70° W. and N. 76° E.</p>
675.	<p>Gulch, 15 ft. wide, bears N. 87° E.</p>
1025.79	<p>Cor. No. 2, identical with Cor. Nos. 3 and 2 Enough and Puzzle lodes of this survey, and NW Cor., Sur. No. 330 Mi-an-te-no-mah lode, claimant herein.</p> <p>Set an iron post 42 ins. long, 2 ins. diam., 24 ins. in cement in the ground and in a mound of earth and stone, mkd. A-2, - E-3, - P-2, - 4340, and NW Cor. M-330 replacing the very old 4 x 4 post.</p> <p>No local bearing objects available.</p> <p style="text-align: center;">Thence N. 32° 27' E.</p>
205.	<p>Gulch, 20 ft. wide bears S. 63° E.</p>
300.	<p>Lode line; discovery point bears S. 65° 02' E., 470.ft. dist.</p>
325.	<p>Center of road, bears N. 63° W. and S. 63° E.</p>

4  
5

## Survey No. 4340

Feet 534.48	Intersect line 4 - 1 Carlton lode of this survey.
600.	Cor. No. 3, identical with Cor. No. 2 Enough lode of this survey.  Set an iron post 42 ins. long, 2 ins. diam., 24 ins. in cement in the ground and in a mound of earth and stone mkd. A-3, - E-2, - 4340.  No local bearing objects available.  Thence S. 65° 02' E.
912.08	Intersect line 4 - 5 Sur. No. 1717 Ross lode, at a point from which Cor. No. 5 bears S. 58° 05' E., 203.15 ft. dist.
965.	Road, bears N. 87° W. and S. 87° E.
1025.79	Cor. No. 4, identical with Cor. No. 3 Blue Grass lode of this survey, previously described.  Thence S. 32° 27' W.
13.76	Intersect line 4 - 5, Sur. No. 1717 Ross lode at a point from which Cor. No. 5 bears S. 58° 05' E., 90.40 ft. dist.
120.	Dry Gulch, 10 ft. wide, course S. 65° E.
148.60	Intersect line 3 - 4 Carlton lode of this survey.
282.	Road, bears N. 62° W. and S. 62° E.
300.	Lode line; discovery point bears N. 65° 02' W., 555.79 ft. dist.
400.	Road, bears S. 18° E. and N. 18° W.
600.	Cor. No. 1, and place of beginning.

## CARLTON LODE

At Cor. No. 1 of the Carlton lode of this survey.

Set an iron post 42 ins. long, 2 ins. diam., 24 ins. in cement in the ground, mkd. C-1 - 4340, from which

The  $\frac{1}{4}$  Corner between Secs. 22 and 23, T. 15 S., R. 22 E., Gila and Salt River Meridian bears N. 44° 57' 40" W., 1054.57 ft. dist., an iron post 1 in. diam., with brass cap, firmly set in a mound of stone marked and witnessed as described in the Official Record.

Cor. Nos. 3 - 2 Arizona and Enough lodes of this survey bears S. 59° 41' 10" E., 524.21 ft. dist.

Thence N. 51° 25' E.

67.26	Intersect line 1 - 2 Enough lode of this survey.
200.18	Lode line; discovery point bears S. 52° 32' E. 45 ft. dist.
394.18	Cor. No. 3, Sur. No. 1717 Ross lode, from which  Cor. No. 4, Sur. No. 1717 Ross lode bears S. 42° 12' E., 900.86 ft. dist.

## Survey No. 4340

Feet 440.75	Cor. No. 2.  Set an iron post 42 ins. long, 2 ins. diam., with a brass cap, 24 ins. in cement in the ground mkd. C-2 - 4340.  No local bearing objects available.  Thence S. 52° 32' E.
1403.81	Intersect line 3 - 4 Blue Grass lode of this survey.
1500.	Cor. No. 3  Set an iron post 42 ins. long, 2 ins. diam., 24 ins. in cement in the ground with a brass cap, mkd. C - 3 - 4340, from which  Cor. Nos. 3 and 4, Blue Grass and Arizona lodes of this survey bears S. 68° 32' 40" W., 163.99 ft. dist.  Cor. No. 4 Sur. No. 1717 Ross lode bears N. 70° 50' W. 658.56 ft. dist.  Thence S. 51° 25' W.
120.	Road, bears S. 62° E. and N. 62° W.
154.19	Intersect line 4 - 5 Sur. No. 1717 Ross lode, at a point from which Cor. No. 4 bears N. 58° 05' W. 590.85 ft. dist. and Cor. No. 5 bears S. 58° 05' E. 43.87 ft. dist.
240.57	Lode line; discovery point bears N. 52° 32' W., 1455. ft. dist.
257.	Dry gulch, 10 ft. wide, course S. 65° E.
297.24	Intersect line 2 - 3 Blue Grass lode of this survey.
440.75	Cor. No. 4.  Set an iron post 42 ins. long, 2 ins. diam., 24 ins. in cement in the ground with a brass cap mkd. C-4 - 4340, from which,  Cor. Nos. 3 - 4 Blue Grass and Arizona lodes of this survey bears N. 41° 46' E., 288.11 ft. dist.  Cor. Nos. 3 - 2 Arizona and Enough lodes of this survey bears N. 48° 43' 20" W., 982.04 ft. dist.  Thence N. 52° 32' W.
140. 435.	Dry gulch, course East. Road, bears S. 81° W. and N. 81° E.
974.14	Intersect lines 2 - 3 Arizona and Enough lodes of this survey.
1500.	Cor. No. 1, and place of beginning.
	ENOUGH LODE
	At Cor. No. 1 of the Enough lode.  Set an iron post 42 ins. long, 2 ins. diam., 24 ins. in cement in the ground and in a mound of earth and stone, mkd. E-1 - 4340, from which  The $\frac{1}{4}$ Cor. between Secs. 22 and 23, T. 15 S., R. 22 E.

## Survey No. 4340

Feet	
	Gila and Salt River Meridian bears N. $4^{\circ} 20'$ W., 99.34 ft. dist., previously described. Thence S. $52^{\circ} 32'$ E.
996.08	Intersect line 1 - 2 Carlton lode of this survey.
1500.	Cor. No. 2. Identical with Cor. No. 3 Arizona lode of this survey, previously described. Cor. No. 1. Carlton lode of this survey bears N. $59^{\circ} 41' 10''$ W., 524.21 ft. dist. Thence S. $32^{\circ} 27'$ W.
65.52	Intersect line 4 - 1 Carlton lode of this survey.
275.	Road, bears N. $63^{\circ}$ W. and S. $63^{\circ}$ E.
300.	Lode line; discovery point bears N. $52^{\circ} 32'$ W. 865 ft. dist.
395.	Gulch, 25 ft. wide, course S. $63^{\circ}$ E.
600.	Cor. No. 3. Identical with Cor. Nos. 2 Puzzle and Arizona lodes of this survey, and the NW Cor., Sur. No. 330 Mi-an-teno-mah lode, previously described. Thence N. $52^{\circ} 32'$ W.
300.	Gulch, 15 ft. wide bears N. $73^{\circ}$ E.
485.	Road, bears N. $70^{\circ}$ E. and S. $70^{\circ}$ W.
1500.	Cor. No. 4, identical with Cor. No. 1, Puzzle lode of this survey. Set an iron post 42 ins. long, 2 ins. diam., 24 ins. in cement in the ground and in a mound of earth and stone with a brass cap, mkd. E-4, - P-1, - 4340. No local bearing objects available. Thence N. $32^{\circ} 27'$ E.
300.	Lode line; discovery point bears S. $52^{\circ} 32'$ E. 635 ft. dist.
600.	Cor. No. 1, and place of beginning.
	PUZZLE LODGE
	Beginning at Cor. No. 1 of the Puzzle lode, identical with Cor. No. 4 Enough lode of this survey, previously described, from which The $\frac{1}{4}$ Cor. between Secs. 22 and 23, T. 15 S., R. 22 E., Gila and Salt River Meridian, previously described, bears N. $27^{\circ} 26' 50''$ E., 682.16 ft. dist. Thence S. $52^{\circ} 32'$ E.
1015.	Center of road, bears S. $70^{\circ}$ W. and N. $70^{\circ}$ E.
1200.	Gulch, 15 ft. wide bears N. $73^{\circ}$ E.



Survey No. 4340

Feet 1500.	Cor. No. 2, identical with Cor. Nos. 2 - 3 Arizona and Enough lodes of this survey, previously described.  Thence S. 25° 33' W.
200.	Gulch, 6 ft. wide, bears N. 65° E.
300.	Lode line; discovery point bears N. 52° 32' W. 700 ft. dist.
600.	Cor. No. 3, identical with SW Cor., Sur. No. 330, Mi-an-te-no-mah lode and NW Cor. Sur. No. 331, Mammoth lode, claimants herein.  Set an iron post 42 ins. long, 2 ins. diam., 24 ins. in cement in the ground and in a mound of earth and stone, mkd. P-3, - 4340, SW Cor. M-330 and NW Cor. M-331, replacing the very old 4 x 4 post.  No local bearing objects available.  Thence N. 52° 32' W.
784.	Gulch, 10 ft. wide, bears N. 42° E.
1006.	Road, bears S. 44° W. and N. 44° E.
1500.	Cor. No. 4.  Set an iron post 42 ins. long, 2 ins. diam., 24 ins. in cement in the ground and in a mound of earth and stone, with a brass cap, mkd. P-4, - 4340.  No local bearing objects available.  Thence N. 25° 33' E.
300.	Lode line; discovery point bears S. 52° 32' E., 800 ft. dist.
600.	Cor. No. 1, and place of beginning.

Survey No. 4340

AREAS

	Acres
Total area, Blue Grass lode .....	8,599
Area in conflict with -	
Sur. No. 1717 Ross lode .....	1,556
Sur. No. 1717 Dewey lode .....	0.067
Sur. No. 1717 True Blue lode .....	0.242
Sur. No. 3242 North Star lode .....	0.550
Sur. No. 3242 North Star lode, exclusive of its conflict with Sur. No. 1717 Ross lode .....	0.549
Total area, Arizona lode .....	14.009
Area in conflict with -	
Sur. No. 1717 Ross lode .....	0.014
Total area, Carlton lode .....	14.730
Area in conflict with -	
Sur. No. 1717 Ross lode .....	5.026
Arizona lode of this survey .....	4.057
Arizona lode of this survey, exclusive of its conflict with Sur. No. 1717 Ross lode .....	4.039
Blue Grass lode of this survey .....	0.320
Blue Grass lode of this survey, exclusive of its conflict with Sur. No. 1717 Ross lode ..	0.072
Total area, Enough lode .....	20.582
Area in conflict with -	
Carlton lode of this survey .....	0.772
Total area, Puzzle lode .....	20.216

## Survey No. 4340

## LOCATION

This survey is located in the SE  $\frac{1}{4}$  Sec. 22, and SE  $\frac{1}{4}$  and SW  $\frac{1}{4}$  of Sec. 23, T. 15 S., R. 22 E., of the Gila and Salt River Meridian.

The survey of the Blue Grass, Arizona, Carlton, Enough and Puzzle lodes is identical with the respective amended locations 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 shaft of the Blue Grass lode, the center of which being the discovery point, is on the lode line 525 ft. from a point on line 1 - 2, 208 ft. from Cor. No. 1; 5 x 8 ft. 10 ft. deep.  
Value, \$100.
- ✓ No. 2. A shaft, the center of which is on the lode line 510 ft. from a point on line 1 - 2, 208 ft. from Cor. No. 1, Blue Grass lode; 4 x 8 ft., 10 ft. deep.  
Value, \$100.
- ✓ No. 3. A shaft, the center of which bears N. 90° 30' E., 448 ft. from Cor. No. 1, Blue Grass lode, 4 x 6 ft., 12 ft. deep.  
Value, \$120.
- ✓ No. 4. A shaft, the center of which bears N. 18° 50' E., 430 ft. from Cor. No. 1, Blue Grass lode 4 x 6, 10 ft. deep.  
Value, \$100.
- ✓ No. 5. A shaft, the center of which bears N. 10° 40' E., 362 ft. from Cor. No. 1, Blue Grass lode, 4 x 6 ft. 10 ft. deep.  
Value, \$100.
- ✓ No. 6. A shaft, the center of which bears N. 6° 40' E., 375 ft. from Cor. No. 1, Blue Grass lode, 4 x 6 ft. 10 ft. deep.  
Value, \$100.
- ✓ No. 7. A shaft, the center of which bears N. 5° 00' E., 385 ft. from Cor. No. 1, Blue Grass lode, 4 x 6 ft. 10 ft. deep.  
Value, \$100.
- ✓ No. 8. A shaft, the center of which bears N. 23° 00' W., 180 ft. from Cor. No. 1, Blue Grass lode, 4 x 6 ft. 10 ft. deep.  
Value, \$100.
- ✓ No. 9. A shaft, the center of which bears N. 25° 50' W., 188 ft. from Cor. No. 1, Blue Grass lode, 4 x 6 ft. 10 ft. deep.  
Value, \$100.
- ✓ No. 10. Diamond Drill hole No. 72, the center of which bears N. 23° 00' W., 180 ft. from Cor. No. 1, Blue Grass lode; 2 ins. diam., 580 ft. deep.  
Value, \$1,740.
- ✓ No. 11. Diamond Drill hole No. 7, the center of which bears N. 26° 20' E., 510 ft. from Cor. No. 1, Blue Grass lode; 2 ins. diam., 735 ft. deep.  
Value, \$2,205.
- ✓ No. 1. The discovery monument of the Arizona lode, the center of which being the discovery point is on the lode line 470 ft. from a point on line 2 - 3 - 300 ft. from Cor. No. 2, 4 ft. at base and 3 ft. high.

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No value.

No. 2. A shaft, the center of which bears S. 82° 45' E., 543 ft. from Cor. No. 2 Arizona lode; 4 x 6 ft., 40 ft. deep timbered.

Value, \$600.

No. 3. A shaft, the center of which bears S. 87° 00' E., 497 ft. from Cor. No. 2, Arizona lode; 4 x 6 ft., 10 ft. deep.

Value, \$100.

No. 4. A shaft, the center of which bears N. 87° 25' E., 290 ft. from Cor. No. 2, Arizona lode, 4 x 6 ft., 10 ft. deep.

Value, \$100.

No. 5. A shaft, the center of which bears N. 50° 54' E., 220 ft. from Cor. No. 2, Arizona lode, 6 x 10 ft., 10 ft. deep.

Value, \$100.

No. 6. Diamond Drill hole No. 2, the center of which bears N. 21° 30' W., 693 ft. from Cor. No. 1, Arizona lode; 2 ins. diam., 597 ft. deep.

Value, \$1,791.

No. 7. Diamond Drill hole No. 6, the center of which bears N. 1° 00' E., 293 ft. from Cor. No. 1, Arizona lode, 2 ins. diam., 580 ft. deep.

Value, \$1,740.

No. 1. The discovery shaft of the Carlton lode, the center of which being the discovery point, is on the lode line 45 ft. from a point on line 1-2, 200.18 ft. from Cor. No. 1, 4 x 10 ft., 10 ft. deep.

Value, \$100.

No. 2. A shaft, the center of which bears S. 74° 00' E., 674 ft. from Cor. No. 1, Carlton lode, 5 x 7 ft., 50 ft. deep, timbered.

Value, \$750.

No. 3. A shaft, the center of which bears N. 54° 00' E., 200 ft. from Cor. No. 1, Carlton lode, 4 x 7 ft., 20 ft. deep.

Value, \$200.

No. 4. A shaft, the center of which bears N. 33° 40' W., 630 ft. from Cor. No. 4, Carlton lode, 4½ x 7 ft., 8 ft. deep.

Value, \$100.

No. 5. A shaft, the center of which bears N. 30° 15' W., 462 ft. from Cor. No. 4, Carlton lode, 4½ x 7 ft., 8 ft. deep.

Value, \$100.

No. 1. The discovery shaft of the Enough lode, the center of which being the discovery point, is on the center line 635 ft. from a point on line 4-1, 300 ft. from Cor. No. 1, 4 x 6 ft., 10 ft. deep.

Value, \$100.

No. 2. A shaft, the center of which bears N. 39° 15' W., 533 ft. from Cor. No. 3, Enough lode, 4 x 6 ft., 10 ft. deep.

Value, \$100.

No. 3. An incline shaft, the center of which bears N. 40° 46' W., 590 ft. from Cor. No. 3, Enough lode, 4 x 6 ft., 30 ft. deep, incline N. 41° E., dip 45°.

Value, \$400.

No. 1. The discovery shaft of the Puzzle lode, the center of which being the discovery point, is on the lode line 800 ft. from the center of line 4-1, 4 x 6 ft., 10 ft. deep.

Value, \$100.

- No. 2. A shaft, the center of which bears N. 68° 50' W., 680 ft. from Cor. No. 2, Puzzle lode, 4 x 6 ft., 10 ft. deep.  
Value, \$100.
- No. 3. A cut, the mouth of which bears N. 37° 05' W., 748 ft. from Cor. No. 3, Puzzle lode, 6 ft. wide, runs S. 19° E., 12 ft. to a 6 ft. face.  
Value, \$60.
- No. 4. A shaft, the center of which bears N. 37° 05' W., 700 ft. from Cor. No. 3, Puzzle lode, 4 x 7 ft., 10 ft. deep.  
Value, \$100.
- No. 5. A shaft, the center of which bears N. 45° 20' W., 666 ft. from Cor. No. 3, Puzzle lode, 6 x 8 ft., 50 ft. deep, timbered.  
Value, \$750.
- No. 6. A cut, the mouth of which bears S. 25° 35' E., 503 ft. from Cor. No. 1, 6 ft. wide, runs N. 32° 20' E., 40 ft. to a 12 ft. face; at face of cut, a tunnel 5 x 7 ft. runs N. 32° 20' E., 20 ft. to face.  
Value of Cut and Tunnel, \$500.
- No. 7. A shaft, the center of which bears S. 37° 40' E., 440 ft. from Cor. No. 1, Puzzle lode, 4 x 8 ft., 9 ft. deep.  
Value, \$90.
- No. 8. A shaft, the center of which bears S. 10° 30' E., 408 ft. from Cor. No. 1, Puzzle lode, 4 x 6 ft., 8 ft. deep.  
Value, \$80.
- No. 9. A shaft, the center of which bears S. 2° 50' E., 374 ft. from Cor. No. 1, Puzzle lode, 4 x 6 ft., 10 ft. deep.  
Value, \$100.

An interest in a common improvement described as follows:

- A three compartment shaft, 6½ x 16 ft. in size, 390 ft. deep, timbered, the center of which bears N. 60° 30' E. 165 ft. from Cor. No. 2, Blue Grass lode.  
Value of shaft, per contract price,  
\$130 per foot, . . . . . \$50,700.  
Value of a one-thirteenth interest 3,900.

This improvement is in course of construction for the joint development of the five lodes of this survey and Sur. No. 330 Mi-an-te-no-mah lode; Sur. No. 331 Mammoth lode; Sur. No. 1717 Ross, Dewey and True Blue lodes, and Sur. No. 3242 North Star, Blue Lead and Little Bush lodes, which are all of the contiguous lode claims owned in common within the range of benefit of said shaft.

The surface rises rapidly to the south and southwest, and gradually to west, east and north of said shaft, and its extension in depth with necessary laterals, affords a practical and economical means of developing each of the stated lodes at depth.

Five hundred dollars or over has been expended in this improvement in such a manner as tends to the development of each lode of this survey, subsequent to its location and to the time since which common ownership and contiguity have prevailed. Therefore, an undivided one-thirteenth interest in its value is hereby credited to each of said lodes and a like interest apportioned to each of the other stated lodes of the common group.

Except as above stated, no portions of, or interest in this improvement has been credited heretofore as patent expenditures to any other lode claim.

## Survey No. 4340

## OTHER IMPROVEMENTS

A frame and iron hoist and compressor house, the SE Cor. of which bears N.  $44^{\circ}$  E., 127 ft. from Cor. No. 2, Blue Grass lode, 30 x 40 ft. in size, course of long side N.  $34^{\circ}$  W.

Claimant herein.

A frame and iron bunk house, the SE Cor. of which bears N.  $45^{\circ} 15'$  E., 294 ft. from Cor. No. 2, Blue Grass lode, 24 x 50 ft., in size, course of long side N.  $47^{\circ}$  W.

Claimant herein.

## OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

Sur. No. 330 Mi-an-te-no-mah lode; all corners were formerly 4 x 4 pine posts and have been replaced with iron posts 2 ins. diam., 42 ins. long, with iron caps properly marked; the north side line was found to be N.  $65^{\circ} 02'$  W., 1400.79 ft. instead of N.  $64^{\circ} 27'$  W., 1400 ft. as approved; the west end line was found to be S.  $25^{\circ} 33'$  W., 600 ft. instead of S.  $24^{\circ} 57'$  W., 600 ft. as approved.

Sur. No. 1717 Ross lode: all corners are pine posts firmly set and properly marked; Line 1-2 was found to be N.  $42^{\circ} 07' 40''$  W., 1502.68 ft. instead of N.  $41^{\circ} 53'$  W., 1500 ft. as approved; line 2-3 was found to be S.  $50^{\circ} 59'$  W., 600.86 ft., instead of S.  $51^{\circ} 17'$  W., 600.86 ft.; line 3-4 was found to be S.  $42^{\circ} 12'$  E., 900.86 ft. instead of S.  $41^{\circ} 53'$  E., 900 ft., as approved; line 4-5 was found to be S.  $58^{\circ} 05'$  E., 634.72 ft. instead of S.  $57^{\circ} 57'$  E., 634.50 ft. as approved; line 5-1 was found to be N.  $51^{\circ} 08'$  E., 425.07 ft. instead of N.  $51^{\circ} 17'$  E., 425 ft. as approved.

Sur. No. 1717 Dewey lode: all corners are pine posts firmly set and properly marked; line 3-4 was found to be S.  $42^{\circ} 07' 40''$  E., 1502.68 ft. instead of S.  $41^{\circ} 53'$  E., 1500 ft. as approved, and line 4-1 was found to be N.  $51^{\circ} 08'$  E., 600.86 ft. instead of N.  $51^{\circ} 17'$  E., 600.86 ft. as approved.

Sur. No. 1717 True Blue lode: all corners are pine posts firmly set and properly marked; line 2-3 was found to be N.  $46^{\circ} 58'$  W., instead of N.  $46^{\circ} 40'$  W. as approved, and line 3-4 was found to be N.  $51^{\circ} 08'$  E., instead of N.  $51^{\circ} 17'$  E., as approved.

Sur. No. 3242 North Star lode: line 2-3 was found to be <sup>approximately</sup> correct as approved; line 3-4 was found to be S.  $46^{\circ} 58'$  E. ~~1500 ft. instead of S.  $46^{\circ} 40'$  E. 1500 ft.~~ as approved.

Sur. No. 3242 Blue Lead lode: corner 1 was found to be a pine post firmly set and properly marked, and was replaced with an iron post properly marked as described herein, at Cor. No. 1 Blue Grass lode of this survey; line 1-2 was found to be N.  $32^{\circ} 35'$  E. 600 ft. instead of N.  $32^{\circ} 27'$  E. 600 ft. as approved. The tie from Cor. No. 1 Sur. No. 3242 Blue Lead lode to  $1/4$  Cor. between Secs. 23 and 26, T. 15 S., R. 22 E., Gila and Salt River Meridian, was found to be S.  $41^{\circ} 34' 10''$  E., 734.36 ft. dist. instead of S.  $41^{\circ} 31'$  E. 722.80 ft. as approved.

(Memo. - The disagreement between these field notes and the amended location certificates is due to errors in the latter).

11 12

Survey No. 1410

OTHER INFORMATION

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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GENERAL LAND OFFICE

FINAL OATH OF MINERAL SURVEYOR

I, Edward L. Haff, Mineral Surveyor,  
do solemnly swear that, in pursuance of instructions received from the Office Cadastral  
Engineer, at Phoenix, Arizona, dated August 11, 1949,  
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  
Coronado Copper and Zinc Company, known as the  
Blue Grass, Arizona, Carlton, Enough and Puzzle lodes,  
situate in Cochise Mining District,  
Cochise County, Arizona, in Section 8  
22 and 23, Township No. 15 South, Range No. 22 East, G. and S.R.M  
and designated as Survey No. 4340, 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 im-  
provements 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.

Chairman; Forest L. Bradfield, Los Angeles, California.

Edward L. Haff  
(Mineral Surveyor)

Subscribed and sworn to by the said

Edward L. Haff

Mineral Surveyor, before me

Anne M. Young

this

sixth

day of

January

, 1950

Anne M. Young  
Notary Public





CERTIFICATE OF APPROVAL OF FIELD NOTES AND SURVEY OF  
MINING CLAIM

UNITED STATES  
DEPARTMENT OF THE INTERIOR

~~GENERAL LAND OFFICE~~ Bureau of Land Management  
~~PUBLIC SURVEY OFFICE~~ Division of Engineering  
1009 W. Tijeras Ave.,  
Albuquerque, N. M.

At Albuquerque, New Mexico

September 22, 19 50

I, Office Cadastral Engineer at Albuquerque, New Mexico

do hereby certify that the foregoing and hereto attached Field Notes and Return of the Survey of the  
Mining Claim of Coronado Copper & Zinc Company

, known as the  
Blue Grass, Arizona, Carlton, Enough, and Puzzle lodes

situate in Cochise mining district,  
Cochise County, Arizona

in Sections 22 and 23, Township No. 15 South, Range No. 22 East  
G&SRM, designated as Survey No. 4340

executed by Edward L. Haff, Mineral

Surveyor, August 6 to 15 incl., 1949, 19, under my instructions dated

August 1, 1949 and amended  
August 11, 1949, 19, 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  
included and made a part of these field notes.

  
Geo. H. Well Office Cadastral Engineer.

CERTIFICATE OF APPROVAL OF FIELD WORK AND SURVEY OF  
MINING CLAIM

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
WASHINGTON, D.C.  
10010  
1981

The undersigned, a Special Agent in Charge, has conducted a field inspection of the mining claim described in the foregoing application and has found that the claimant has complied with the provisions of the Mining Laws of the United States and the regulations thereunder, and that the claimant is entitled to the benefit of the Mining Laws of the United States and the regulations thereunder, and that the claimant is entitled to the benefit of the Mining Laws of the United States and the regulations thereunder.

This certificate is issued in accordance with the provisions of the Mining Laws of the United States and the regulations thereunder, and that the claimant is entitled to the benefit of the Mining Laws of the United States and the regulations thereunder.

Special Agent in Charge

*[Signature]*