

UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE

MINERAL SURVEY NO. 4272

Arizona Land District.

FIELD NOTES

Of The Survey Of The Mining Claim Of

LEO WALL

Known As The

RAY SOUTHERN # 2, RAY SOUTHERN # 3 and RAY SOUTHERN # 4 lodes

Mineral Creek Mining District,

Pinal County, Arizona

Section 24, Township 3 S., Range 13 E., G. & S. R. M.

Surveyed under instructions dated May 18, 1943

by Ralph L. Motz
Mineral Surveyor.

Claim located September 1, 1932

Survey commenced May 31, 1943, 19

Survey completed June 22, 1943

Address of claimant's attorneys, John H. Page & Co.,
Luhrs Building,
Phoenix, Arizona.

DATES OF AMENDED LOCATIONS

Feet	<p>Mineral Survey No. 4272 was made with a Gurley & Sons precise transit, light mountain model, with horizontal limb 6.25 inches in diameter, having two double opposite verniers, and full vertical circle 5 inches in diameter, having one double vernier; the verniers read to one minute of arc; the eye piece is equipped with a prismatic eye piece with colored glass slide for making direct observations upon the sun. The instrument was in good condition at the time of survey and all adjustments were in good order. All azimuths in this record are referred to the true meridian as determined by the Ray Consolidated mining Company for their primary triangulation system, and which meridian checks the meridian used in the survey of T. 3 S., R. 13 E., G. & S. R. M., by the method of deflection angles and calculated courses.</p> <p>The lines were measured with a Keuffel & Esser steel tape 100 feet in length, graduated to feet, tenths and hundredths of feet for the entire length; a Keuffel & Esser steel tape 300 feet in length, graduated to feet, tenths and hundredths of feet for the entire length; a Lufkin steel tape, 25 feet in length, graduated to feet, inches and fractions of inches for the entire length. All tapes were compared with a Lufkin standard tape at the time of beginning the survey and found correct.</p> <p>All lines and connections of this survey were run by direct methods.</p> <p>The magnetic variation observed at each corner of the survey gave a uniform value of 14° 40' E.</p>
	<p>RAY SOUTHERN # 28 lode Beginning at Cor. No. 1 of the Ray Southern # 2 lode, a point on the west bank of the Main Channel of Mineral Creek, where it is impracticable to establish a permanent corner, so a witness corner was established S. 11° 18' E., 30.0 ft.</p>
	<p>From the point for Cor. No. 1 Sec. The 1/4 Cor. Secs. 23 and 24, T. 3 S., R. 13 E., G. & S. R. M., bears S. 76° 58' W., 1173.7 ft., being an iron pipe with brass cap, properly set and marked as described in the official record.</p>
	<p>A quartzite rock 22x24 ins., 10 ins. above ground bears S. 75° 00' W., 26.4 ft., mkd. ER X RS2-1-4272</p>
	<p>Cor. No. 3 Survey No. 2615 A Colorado No. 3 lode bears S. 83° 32' E., 733.35 ft. being an iron pin with center punch, in center of a monument, post missing.</p>
	<p>Thence N. 76° 13' E.,</p>
100.0	<p>East bank of Main Channel of Mineral Creek, course southeasterly</p>
140.6	<p>Center line of Ray and Gila Valley Railroad</p>
702.4	<p>Intersect line 2-3 of Survey No. 2615 A Colorado No. 3 lode at a point from which Cor. No. 3 bears S. 10° 33' E., 254.2 ft.</p>
1501.4	<p>Cor. No. 2, identical with the northwest corner of Ray Southern #5 lode, unsurveyed. Set a limestone rock, 27x9x8 ins., 19 ins. in the ground mkd. RS2-2-4272; from which A monument of rocks, 4 ft. high, 4 ft. base, bears</p>

Feet	
	northwesterly 3 ft.
	Thence S. 11° 18' E.,
300.0	Intersect the east end of the lode line at the original location for the east end center, being a monument of rocks, 3 ft. high, 3 ft. base
600.0	Cor. No. 3
	Identical with the S. W. Cor. of the Ray Southern # 5 lode unsurveyed and situated on line 1-2 of the Ray Southern #.3 lode of this survey,
	A diorite ledge, 10x80 ins., 22 ins. above ground, mkd. RS2-3-4272; from which
	monument of rocks, 3 ft. high, 3 ft. base, bears southerly 4 ft.
	A diorite ledge, 36x66 ins., 33 ins. above ground bears N. 52° 07' W., 14.4 ft., mkd. BR X RS2-3-4272
	Thence S. 78° 42' W.,
648.0	Cross Wall Canyon, 10 ft. wide, course westerly
401.0	Cross road, 10 ft. wide, course northeasterly
970.7	Intersect line 2-3 Survey No. 2615 A Colorado No. 2 lode at a point from which Cor. No. 2 bears N. 10° 33' W., 313.4 ft.
1137.0	Center line of Ray and Gila Valley Railroad, also cross Wall Canyon, 10 ft. wide, course southwesterly
1167.0	Cor. No. 1 of the Ray Southern # 3. lode of this survey
1177.0	East bank of the main channel of Mineral Creek
1278.0	West bank of the main channel of Mineral Creek
1428.0	North bank of the west channel of Mineral Creek
1500.0	Point for Cor. No. 4
	This point is situated in the West Channel of Mineral Creek and it is impractical to set a permanent monument here.
	From this point Cor. No. 2 Survey No. 2615 A Colorado No. 2 lode bears N. 48° 16' E., 618.72 ft., being a monument of rocks, post missing
	Thence N. 11° 18' W.,
44.0	North bank of the west channel of Mineral Creek
61.0	Witness corner for Cor. No. 4
	Set a diorite rock, 28x12x12 ins., 20 ins. in the ground, mkd. WC RS2-4-4272; from which
	a monument of rocks, 4 ft. high, 4 ft. base, bears northeasterly 3 ft.
300.0	Intersect the west end of the lode line at the original location for the west end center, being a monument of rocks, 4 ft. high, 3 ft. base

Feet	
320.4	Intersect line 1-2 Survey No. 2615 A Colorado No. 2 lode at a point from which Cor. No. 2 bears N. 79° 27' E., 533.5 ft., also intersect line 3-4 Survey No. 2615 A Colorado No. 3 lode at a point from which Cor. No. 3 bears N. 79° 27' E., 698.5 ft.
505.0	Witness corner for Cor. No. 1 A quartzite rock in place, 17x24 ins., 10 ins. above ground, mkd. WC RS2-1-4272; from which A monument of rocks, 4 ft. high, 4 ft. base, bears northerly 3 ft.
535.0	Cor. No. 1 and place of beginning.
	RAY SOUTHERN # 3 lode
	Beginning at Cor. No. 1 of the Ray Southern # 3 lode Situating on line 3-4 of the Ray Southern # 2 lode of this survey, N. 78° 42' E., 333 ft. from Cor. No. 4.
	Set a diorite rock, 27x10x9 ins., 17 ins. in the ground, mkd. RS3-1-4272; from which
	Cor. No. 3 Survey No. 2615 A Colorado No. 2 lode bears S. 45° 12' E., 345.26 ft., being a monument of rocks post missing
	A monument of rocks, 4 ft. high, 3 ft. base, bears southeasterly 3 ft.
	A point on the north end of concrete head wall of culvert bears N. 78° 42' E., 18.5 ft., mkd. BPT X RS3-1-4272, said concrete head wall being 10 ins. wide, 10 ft. long and 9 ft. high
	A point on the west end of the south side wall of culvert bears S. 60° 43' E., 18.5 ft., mkd. BPT X RS3-1-4272, said side wall being of concrete, 8 ins. wide, 9 ft. long, and 6 ft. high
	Sec. The 1/4 Cor. Secs. 23 and 24, T. 3 S., R. 13 E., G. & S. R. M. bears N. 82° 57' W., 1586.8 ft., previously described
	Thence N. 78° 42' E.,
30.0	Center line of Ray and Gila Valley Railroad, also cross Wall Canyon, 10 ft. wide, course southwesterly
196.3	Intersect line 2-3 Survey No. 2615 A Colorado No. 2 lode at a point from which Cor. No. 3 bears S. 10° 33' E., 286.6 ft.
776.0	Cross Road, 10 ft. wide, course southwesterly
1119.0	Cross Wall Canyon, 10 ft. wide, course westerly
1167.0	Cor. No. 3 of the Ray Southern # 2 lode of this survey and the southwest corner of the Ray Southern # 5 lode, unsurveyed
1500.0	Cor. No. 2 Identical with the northwest corner of the Ray Southern # 6 lode, unsurveyed

Feet	Being a quartzite rock in place, 9x15 ins., 4 ins. above ground, mkd. RS3-2-4272; from which
	A quartzite rock in place, 19x35 ins.; 8 ins. above ground bears S. 86° 21' E., 15.4 ft., mkd. BR X RS3-2-4272
	A monument of rocks, 3 ft. high, 3 ft. base, bears southwesterly 3 ft.
	Thence S. 11° 18' E.,
190.0	Cross Wall Canyon, 10 ft. wide, course southwesterly.
300.0	Intersect the east end of the lode line at the original location for the east end center, being a monument of rocks, 3 ft. high, 3 ft. base
600.0	Cor. No. 3
	Identical with Cor. No. 4 of the Ray Southern # 4 lode of this survey and with the southwest corner of the Ray Southern # 6 lode and the northwest corner of the Ray Southern # 9 lode, both unsurveyed.
	Being a sandstone ledge, 14x25 ins., 4 ins. above ground, mkd. RS3-3-RS4-4-4272; from which
	A monument of rocks, 4 ft. high, 4 ft. base, bears westerly 3 ft.
	Thence S. 78° 42' W.,
1042.0	Cross road, 10 ft. wide, course southerly.
1399.0	Center line of Ray and Gila Valley Railroad.
1500.0	Cor. No. 4
	Identical with Cor. No. 3 of the Ray Southern # 4 lode of this survey
	Set a diabase rock, 27x12x6 ins., 18 ins. in the ground, mkd. RS3-4-RS4-3-4272; from which
	A monument of rocks, 3 ft. high, 3 ft. base, bears easterly 4 ft.
	A trachyte rock in place, 12x28 ins., 12 ins. above ground bears S. 23° 39' W., 7.4 ft., mkd. BR X RS3-4-4272
	Thence N. 11° 18' W.,
15.0	East bank of Mineral Creek
300.0	Intersect the west end of the lode line at the original location for the west end center, being a monument of rocks, 4 ft. high, 4 ft. base
315.95	Intersect line 3-4 Survey No. 2615 A Colorado No. 2 lode at a point from which Cor. No. 3 bears N. 79° 27' E., 192.58 ft.
539.0	East bank of main channel of Mineral Creek.
580.0	Cross Wall Canyon, 10 ft. wide, course southwesterly.
600.0	Cor. No. 1 and place of beginning.

Mineral Survey No. 4272 - Arizona

Feet		Feet
	RAY SOUTHERN # 4 lode	
	Beginning at Cor. No. 1 of the Ray Southern # 4 lode	
	Set a sandstone rock 27x10x9 ins., 18 ins. in the ground, mkd. RS4-4-4272; from which	
	A monument of rocks, 4 ft. high, 4 ft. base, bears westerly 3 ft.	
	The 1/4 Cor. Secs. 24 and 25, T. 3 S., R. 13 E., G. & S. R. M. bears S. 23° 45' E., 1441.6 ft., being an iron pipe with brass cap, firmly set and properly marked as described in official record	
	Situated on the north line of the S 1/2 SW 1/4 of Sec. 24, T. 3 S., R. 13 E., G. & S. R. M.	
	The original location for the southwest corner bears S. 78° 42' W., 294.7 ft., being a monument of rocks, 3 ft. high, 3 ft. base	
68.0	Cross Susie D. gulch, 25 ft. wide, course southwesterly	
187.0	Cross road, 10 ft. wide, course northwesterly	
267.0	Center line of Ray and Gila Valley Railroad	
297.6	Cor. No. 2	
	Situated on the north line of the S 1/2 SW 1/4 of Sec. 24, T. 3 S., R. 13 E., G. & S. R. M.	
	Set a quartzite rock, 30x10x10 ins., 20 ins. in the ground, mkd. RS4-2-4272; from which	
	A monument of rocks, 4 ft. high, 4 ft. base, bears westerly 3 ft.	
	The original location for the southwest corner bears S. 8° 25' E., 58.6 ft., previously described	
	Thence N. 8° 25' W.,	
28.0	Cross road, 10 ft. wide, course westerly	
241.4	Intersect the west end of the lode line at the original location for the west end center, being a monument of rocks, 4 ft. high, 4 ft. base	
541.4	Cor. No. 3	
	Identical with Cor. No. 4 of the Ray Southern # 3 lode of this survey	
	Thence N. 78° 42' E.,	
101.0	Center line of the Ray and Gila Valley Railroad	
458.0	Cross road, 10 ft. wide, course southerly	
1500.0	Cor. No. 4	
	Identical with Cor. No. 3 of the Ray Southern # 3 lode of this survey	
	Thence S. 8° 25' E.,	

Feet		Feet
300.0	Intersect the east end of the lode line at the original location for the east end center, being a monument of rocks, 4 ft. wide, 4 ft. base	
600.0	Cor. No. 5	
	Identical with the southwest corner of the Ray Southern # 9 lode and the northwest corner of the Ray Southern # 10 lode, both unsurveyed	
	Set a quartzite rock, 28x8x6 ins., 20 ins. in the ground, mkd. RS4-5-4272; from which	
	A monument of rocks, 4 ft. high, 4 ft. base, bears easterly 3 ft.	
	A quartzite rock in place, 8x24 ins., 6 ins. above ground, bears N. 16° 12' W., 24.9 ft. mkd. BR X RS4-5-4272	
	A sandstone rock in place, 8x10 ins., 13 ins. above ground bears N. 27° 50' E., 21.9 ft., mkd. BR X RS4-5-4272	
	Thence S/ 78° 42' W.,	
1115.0	Cross Susie D. gulch, 25 ft. wide, course northwesterly	
1185.0	Cross road, 10 ft. wide, course southwesterly	
1205.3	Cor. No. 1 and place of beginning.	
	LODE LINES	
	The lode lines of the various lode claims of this survey are, counted from their respective points of discovery, as follows:	
	Ray Southern # 2 lode:- N. 78° 42' E., 500 ft., and, S. 78° 42' W., 1000 ft.	
	Ray Southern # 3 lode:- N. 78° 42' E., 600 ft., and, S. 78° 42' W., 900 ft.	
	Ray Southern # 4 lode:- N. 78° 42' E., 1000 ft., and, S. 78° 42' W., 500 ft.	
	AREAS	acres
	Total area, Ray Southern # 2 lode	19.542
	Area in conflict with	
	Sur. No. 2615 A Colorado No. 2 lode - - - - -	3.866
	Sur. No. 2615 A Colorado No. 3 lode - - - - -	3.767
	Total area, Ray Southern # 3 lode - - - - -	20.661
	Area in conflict with	
	Sur. No. 2615 A Colorado No. 2 lode - - - - -	1.274
	Total area, Ray Southern # 4 lode - - - - -	20.438
	LOCATION	
	This survey is located in the ^{SW⁴} NE 1/4, ^{NW⁴} SE 1/4, Lots 2 & 3 and 4, of Sec. 24, T. 3 S., R. 13 E., G. & S. R. M.	

The survey of each of the lode locations of this survey is identical with the original location as marked on the ground, with the exception of the Ray Southern # 4 lode, which is as shown on the preliminary plat. within the location,

EXPENDITURE OF \$500

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 his grantors is not less than \$500, and that said improvements consist of:-

RAY SOUTHERN #2

- No. 1 The discovery cut of the Ray Southern # 2 lode, the face of which being the discovery point is on the center line 500 ft. from the east end center; 4 ft. wide, 10 ft. face running North 12 ft. to face
Value \$50
- No. 2 An open cut, the mouth of which bears N. 45° 48' W., 318 ft. from Cor. No. 3 of the Ray Southern # 2 lode; 12 ft. wide, 14 ft. face, running N. 74° E., 24 ft. to face. In bottom of open cut is a timbered shaft, 5x5 ft. in size, 45 ft. deep; at bottom of shaft is drift 4x6 ft. in size, running East 25 ft. to breast
Value \$1600
- No. 3 An open cut, the mouth of which bears S. 82° 30' E., 400 ft. from Cor. No. 1 of the Ray Southern # 2 lode; 4 ft. wide, 10 ft. face, running N. 78° E., 12 ft. to face
Value \$50
- No. 4 An open cut, the mouth of which is on the center line 418 ft. from the west end center of the Ray Southern # 2 lode; 6 ft. wide, 9 ft. face, running N. 79° E., 10 ft. to face and portal of tunnel 4x6 ft. in size, runs N. 79° E., 25 ft. to breast
Value \$300
- No. 5 A tunnel, the portal of which bears N. 59° 42' E., 640 ft. from Cor. No. 4 of the Ray Southern # 2 lode; 4x7 ft. in size, runs North 54 ft. to breast
Value \$675
- No. 6 An open cut, the mouth of which bears N. 58° 30' E., 605 ft. from Cor. No. 4 of the Ray Southern # 2 lode; 8 ft. wide, 20 ft. face, running North 20 ft. to face and portal of tunnel 4x7 ft. in size, runs N. 40° E., 13 ft. to breast; in bottom of open cut is shaft 4x6 ft. in size, 80 ft. deep (depth reported by claimant) The shaft is open to a depth of 35 ft. at which depth a bulkhead has been built and further examination is not practicable.
Value, \$1890-
- No. 7 A shaft, the center of which bears N. 60° 30' E., 180 ft. from Cor. No. 4 of the Ray Southern # 2 lode; 4x6 ft. in size, 10 ft. deep
Value \$50
- No. 8 An open cut, the mouth of which bears N. 65° 12' E., 491 ft. from Cor. No. 4 of the Ray Southern # 2 lode; 5 ft. wide, 12 ft. face, running N. 60° W., 18 ft. to face and portal of tunnel, 4x6 ft. in size, runs N. 60° W., 6 ft. to breast, in bottom of open cut is shaft 4x8 ft. in size, 8 ft. deep
Value \$292
- No. 9 An open cut, the mouth of which bears N. 70° 19' E., 666 ft. from Cor. No. 4 of the Ray Southern # 2 lode; 6 ft. wide, 10 ft. face, running South 12 ft. to face and

- portal of tunnel 4x6 ft. in size, runs South 8 ft. to breast
Value \$155
- No. 10 An open cut, the mouth of which bears S. 88° 25' W., 510 ft. from Cor. No. 3 of the Ray Southern # 2 lode; 6 ft. wide, 10 ft. face, running S. 61° E., 12 ft. to face and portal of tunnel 5x7 ft. in size runs S. 61° E., 75 ft., and then S. 40° 30' E., 175 ft. to breast (length reported by claimant) Listed under common improvements
Value \$3825
- RAY SOUTHERN #3.
- No. 1 The discovery cut of the Ray Southern # 3, the face of which being the discovery point is on the center line, 600 ft. from the east end center; 4 ft. wide, 12 ft. face, running N. 78° E., 20 ft. to face
Value \$100
- No. 2 An open cut, the mouth of which bears S. 56° 38' W., 695 ft. from Cor. No. 2 of the Ray Southern # 3 lode; 8 ft. wide, 15 ft. face, running N 78° E., 32 ft. to face
Value \$240
- No. 3 A shaft, the center of which bears S. 68° 12' W., 726 ft. from Cor. No. 2 of the Ray Southern # 3 lode; 4x6 ft. in size, 8 ft. deep
Value \$40
- No. 4 An open cut, the mouth of which bears S. 74° 12' W., 642 ft. from Cor. No. 2 of the Ray Southern # 3 lode; 4 ft. wide, 12 ft. face, running N. 75° E., 28 ft. to face
Value \$140
- No. 5 A shaft, the northeast corner of which is on line 1-2 744 ft. from Cor. No. 1 of the Ray Southern # 3 lode; two-compartment, timbered, 6x12 ft. in size, 80 ft. deep - listed under common improvements
Value \$2840
- No. 6 A shaft, the center of which bears N. 79° 48' W., 660 ft. from Cor. No. 3 of the Ray Southern # 3 lode; two-compartments, timbered (caved) 5x10 ft. in size, 65 ft. deep (depth reported by claimant) - listed under common improvements
Value \$1950
- No. 7 A shaft, the center of which bears N. 82° 48' W., 540 ft. from Cor. No. 3 of the Ray Southern # 3 lode; 6x8 ft. in size 60 ft. deep; 1 1/2 compartments, timbered originally; this shaft was set on fire by vandals about 9 months ago and shaft has caved - (depth reported by claimant) listed under common improvements
Value \$2100
- No. 8 An open cut, the mouth of which bears N. 82° 48' W., 520 ft. from Cor. No. 3 of the Ray Southern # 3 lode; 6 ft. wide, 20 ft. face, running S. 82° 48' E., 30 ft. to face and portal of tunnel, 4x7 ft. in size; running S. 82° 48' E., 40 ft. to pt 1; thence N. 58° E., 10 ft. to pt. 2; thence S. 72° 30' E., 104 ft. to pt. 3; thence N. 1° 30' W., 68 ft. to breast. From pt. 1 tunnel runs S. 64° 30' E., 70 ft. to pt. 4; thence S. 82° 15' E., 46 ft. to pt. 5; from pt. 5 N. 1° 30' W., 10 ft.; from pt. 5 S. 82° 15' E., 16 ft. to breast. At pt. 5 is a winze 4x6 ft. in size, 35 ft. deep. At portal of tunnel is winze, 5x10 ft. in size, 70 ft. deep; from the bottom of this winze is a winze-cut 4x6 ft. in size, running N. 83° W., 50 ft. to shaft no. 7; and S. 83° E., 25 ft. to breast. Listed under common improvements
Value \$9500

No. 9 An open cut, the mouth of which bears N. 88° 18' W., 322 ft. from Cor. No. 3 of the Ray Southern # 3 lode; 5 ft. wide, 10 ft. face running S. 78° 20' E., 12 ft. to face and portal of tunnel 4x6 ft. in size, runs S. 78° 20' E. 60 ft. to face

Value \$675.

No. 10 An open cut, the mouth of which bears South 229 ft. from Cor. No. 2 of the Ray Southern # 3 lode; 4 ft. wide, 10 ft. face, running S. 8° W., 12 ft. to face and portal of tunnel, 4x6 ft. in size, runs S. 8° W., 8 ft. to breast

Value \$130.

RAY SOUTHERN #4

No. 1 The discovery shaft of the Ray Southern # 4 lode, the center of which being the discovery point is on the center line 500 ft. from the west end center; 4x6 ft. in size, 10 ft. deep

Value \$50

No. 2 An open cut, the mouth of which bears N. 77° 30' E., 544 ft. from the west end center of the Ray Southern # 4 lode; 4 ft. wide, 8 ft. face, running N. 10° E., 18 ft. to face

Value \$60

No. 3 An open cut, the mouth of which bears from the west end center of the Ray Southern # 4 lode on the center line 562 ft., 4 ft. wide, 10 ft. face, running N. 15° E., 14 ft. to face

Value \$60

No. 4 An open cut, the mouth of which bears West 36.0 ft. from Cor. No. 5 of the Ray Southern # 4 lode; 4 ft. wide, 10 ft. face, running North, 20 ft. to face

Value \$85

COMMON IMPROVEMENTS

The mining property of the claimant consists of 12 contiguous lode claims forming one compact group. The surface rises rapidly from Mineral Creek on the extreme western edge of the property to the crest of the ridge several miles to the East, so that the most economical method of developing the ore bodies on the property is to confine the work to the western section of the property, close to transportation and easy access by road. From these workings drifts and cross-outs can be run to out the various ore deposits at depth. For this reason Improvements No. 10 of the Ray Southern # 2 lode; Nos. 5, 6, 7 and 8 of the Ray Southern # 3 lode, have been prosecuted as common improvements for the group.

The group of mining claims consists of Ray Southern # 1, Ray Southern # 2, Ray Southern # 3, Ray Southern # 4, Ray Southern # 5, Ray Southern # 6, Ray Southern # 7, Ray Southern # 8, Ray Southern # 9, Ray Southern # 10, Ray Southern # 11 and Ray Southern # 12.

Value of No. 10 Ray Southern # 2	- - -	\$ 3825
" " No. 5 Ray Southern # 3	- - -	2840
" " No. 6 Ray Southern # 3	- - -	1950
# " No. 7 Ray Southern # 3	- - -	2100
" " No. 8 Ray Southern # 3	- - -	9500

Total Value Common Improvements - - \$20215

Value of a 1/12 interest - - - - -, \$ 1684.58

OTHER IMPROVEMENTS

A frame house, the northwest corner of which bears N, 82° 55' E., 698 ft. from Cor. No. 1 of the Ray Southern # 3 lode; 14x27 ft. in size, the long side bears South.

A galvanized iron machine shop, the southeast corner of which bears N. 87° W., 548 ft. from Cor. No. 3 of the Ray Southern # 3 lode; 12x41 ft. in size, the long side bears S. 59° W.

OTHER CORNER DESCRIPTIONS

Survey No. 2615 A, Colorado No. 2 lode; Cors. 1 and 4 are monuments of rocks, posts missing. I find the course of line 1-2 to be N. 79° 27' E., instead of N. 78° 50' E., as approved. Line 2-3 to be S. 10° 33' E., instead of S. 11° 10' E., as approved. Line 3-4 to be S. 79° 27' W., instead of S. 78° 50' W., as approved. The distances of these lines were found to be correct as approved. Colorado No. 3: I find the course of line 2-3 to be S. 10° 33' E., instead of S. 11° 10' E., as approved. Line 3-4 to be S. 79° 27' W., instead of S. 78° 50' W. as approved. The length of these lines was found to be correct as approved. Cor. No. 2 is a cross chiseled on a large porphyry ledge. Cor. No. 4 is a monument of rocks, post missing.

Sec. 24, T. 3 S., R. 13 E., G. & S. R. M. The south 1/2 of the west line was found to be N. 0° 01' W., 2638.2 ft. The west 1/2 of the south line was found to be N. 89° 57' W., 2641.3 ft., and the east 1/2 of this line to be N. 89° 57' W., 2645.2 ft. The south 1/2 of the east line was found to be N. 0° 01' E., 2639.8 ft. Consequently the north line of the S 1/2 of the section would be N. 89° 57' W., the east line of the S 1/2 SW 1/4 would be 1319.5 ft. in length, and the north line of the S 1/2 SW 1/4 would be N. 89° 57' W. From these data Cors. 1 and 2 of the Ray Southern # 4 were established on the north line of the S 1/2 SW 1/4 of Sec. 24. The Cor. of Secs. 23, 24, 25 and 26 is an iron pipe, firmly set and marked as given in the official record. The Cor. of Secs. 24 and 25, T. 3 S., R. 13 E. and Secs. 19 and 30, T. 3 S., R. 14 E. is an iron pipe with brass cap, firmly set and properly marked. The 1/4th Cor. Sec. 24, T. 3 S., R. 13 E. and Sec 19, T. 3 S., R. 14 E., is an iron pipe with brass cap, firmly set and properly marked.

ADJOINING CLAIMS.

This survey is adjoined on the north and east by the Ray Southern #1 and Ray Southern #5 lodes, on the east by the Ray Southern #6, Ray Southern #9 and Ray Southern #10 lodes, claimant herein; on the west by the Sugar Loaf lode, unsurveyed, Frank Voutcy, claimant, and by the Colorado No. 2 and Colorado No. 3 lodes, of Survey No. 2615 A, Kennecott Copper Corporation, claimant.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE

FINAL OATHS FOR SURVEYS

LIST OF NAMES

A list of the names of the individuals employed by Ralph L. Motz

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

Leo Wall

known as the Ray Southern # 2, Ray Southern # 3, Ray Southern # 4 lodes and showing the respective capacities in which they acted.

Lewis Ball, Chairman.

Donald Wixom, Chairman.

Keith Lemon, Axman.

....., Flagman.

FINAL OATHS OF ASSISTANTS

We, Lewis Ball, Donald Wixom

and Keith Lemon, do solemnly swear that we assisted Ralph L.

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

the boundaries of the mining claim of Leo Wall

known as the Ray Southern # 2, Ray Southern # 3, Ray Southern # 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

instructions furnished by the Office Cadastral Engineer, at Phoenix, Arizona.

Lewis Ball, Chairman.

Donald Wixom, Chairman.

Keith Lemon, Axman.

....., Flagman.

Subscribed and sworn to by the above-named persons before me this 22nd

day of June 1943

[Signature]

Notary Public, in and for the County of Pinal, State of Arizona.

My commission expires July 26 1943



UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE

FINAL OATH OF MINERAL SURVEYOR

I, Ralph L. Motz, Mineral Surveyor,
do solemnly swear that, in pursuance of instructions received from the Office Cadastral
Engineer, at Phoenix, Arizona, dated May 18, 1943,
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 Leo Wall,
known as the Ray Southern # 2, Ray Southern # 3 and Ray Southern # 4 lodes,
situate in Mineral Creek Mining District,
Pinal County, Arizona, in Section
24, Township No. 3 S., Range No. 13 E., G&SRM
and designated as Survey No. 4272, 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 his
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.

Ralph L. Motz
(Mineral Surveyor)

Subscribed and sworn to by the said Ralph L. Motz
Mineral Surveyor, before me W. H. Miescher, Notary Public
this 28th
day of June, 19 43

W. H. Miescher
Notary Public, in and for the County
of Cochise, State of Arizona.
My commission expires Feb. 3, 1945.

OFFICE CADASTRAL ENGINEER'S FINAL CERTIFICATE ON FIELD NOTES

United States
Department of the Interior
 GENERAL LAND OFFICE
 PUBLIC SURVEY OFFICE

Phoenix, Arizona

September 9, 1943

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

Leo Wall

known as the **RAY SOUTHERN #2, RAY SOUTHERN #3, and RAY SOUTHERN #4** lodes
 situate in **Mineral Creek**

Mining District **Pinal** County **Arizona**

in Section **24**, Township No. **3 S.**, Range No. **13 E.**, and

designated as Survey No. **4272**, 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 **his** ----- grantors,

and that said improvements consist of **17 cuts, 9 shafts, 9 tunnels, 1 drift, 1 crosscut and 2 winzes, total value \$26,857, of which \$15,161.22 is reserved for 9 unsurveyed claims, viz., Ray Southern #1, Ray Southern #5, Ray Southern #6, Ray Southern #7, Ray Southern #8, Ray Southern #9, Ray Southern #10, Ray Southern #11, and Ray Southern #12 lodes,**

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 District Land Office at **Phoenix,**

Arizona is correct and in conformity with the foregoing Field Notes.

E. A. Thompson

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

September 9, 1943

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

Leo Wall

known as the
RAY SOUTHERN #2, RAY SOUTHERN #3, and RAY SOUTHERN #4 lodes

situate in Mineral Creek mining district,

Pinal County, Arizona,

in Section 24, Township No. 3 S., Range No. 13 E.

, designated as Survey No. 4272

executed by Ralph L. Motz, Mineral

Surveyor, May 31 to June 22, 1943, under my instructions dated

May 18, 1943, 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.

E. A. Thompson
Office Cadastral Engineer.