

Form 4-683
(January 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Mineral Survey number	4640
State	Arizona
Land District	Arizona

FIELD NOTES

Of the Survey of the Mining Claim of *(name and address of Claimant)*
 Kennecott Copper Corporation c/o Fennemore, Craig, Allen &
 McClellan, Attorneys at Law
 First National Bank Building
 Phoenix, Arizona 85004

Known as the *(name of group, if any)*

CONSISTING OF LOCATIONS NAMED AND LOCATED AS FOLLOWS

NAME OF LOCATION	DATE	
	LOCATED	AMENDED
MESCAL No. 5	10/17/57	
Mesquite No. 1	2/17/58	
Mesquite No. 2	2/20/58	
Copper Ace No. 1	5/13/60	
Copper Ace No. 2	5/13/60	
Copper Ace No. 3	5/16/60	
Copper Ace No. 4	5/13/60	

Mining district			County	
Mineral Creek			Pinal	
Section	Township	Range	Meridian	Survey under order dated
13	3 South	13 East	Gila & Salt River	February 18, 1966
Survey commenced		Survey completed		Name of Mineral Surveyor
May 15, 1966		July 20, 1966		Travis L. Gant

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SURVEY NO. 4640

1.

F E E T

This survey was made with a W. & L. E. Gurley transit, No. 57289, with horizontal limb $6\frac{1}{2}$ ins. diam., having two double opposite verniers, and full vertical circle 5 ins. diam., having one double vernier; the horizontal verniers read to 30 secs. of arc, the vertical vernier reads 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 observation:

June 30, 1966, at Cor. No. 1 of the Copper Ace No. 3 lode, in latitude $33^{\circ} 10' 04''$ N., and longitude $110^{\circ} 58' 21.2''$ W., I make a series of six altitude observations upon the sun for azimuth at approximately equal time intervals, three each with the telescope in direct and reversed positions, observing opposite limbs of the sun, and reading the horizontal angles from a reference point approximately 1,500 ft. northward clockwise to the sun.

Mean time of observation,
105th meridian, standard time = 4:33 p.m.

Declination of sun at mean
time of observation = $23^{\circ} 09' 30''$ N.

Mean observed vertical angle
to sun's center = $35^{\circ} 58' 20''$

Mean horizontal angle from
reference point to sun's center,
turned clockwise and to the
right to sun's center = $274^{\circ} 00' 40''$

True bearing to reference point = N. $2^{\circ} 05'$ E.

The lines were measured with a Lufkin steel tape 500 feet in length, graduated every foot for 500 ft., with an added foot on the zero end graduated in tenths and hundredths; the tape was compared with a standard 100.00 ft. Invar tape at the time of beginning of the survey and found correct.

All lines and connections of this survey were run by direct methods.

The magnetic declination observed at each corner of the survey gave a uniform value of $13^{\circ} 30'$ E.

SURVEY NO. 4640

MESCAL No. 5 LODE

At Cor. No. 1 of the MESCAL No. 5 lode.

Set an iron post, 1 ins. diam., 2 ft. long, 14 ins. in the ground and in a concrete base, with brass cap mkd. MESC 5-1-4640; from which

The $\frac{1}{4}$ sec. cor. of secs. 12 and 13, T. 3 S., R. 13 E., G. & S. R. M., bears N. $32^{\circ} 12' 14''$ W., 1712.32 ft. dist., an iron post 1 ins. diam., 12 ins. above ground, firmly set, with brass cap marked as described in the official record.

FEET	Cor. No. 3 Sur. No. 2570A Bonanza Mine lode, bears S. 64° 02' 15" E., 218.88 ft. dist.
	Thence N. 89° 17' 25" E.
21.60	Intersect line 4-1 of the copper Ace No. 4 lode of this survey.
142.25	Intersect line 2-3 of the Copper Ace No. 2 lode of this survey.
260	Center of Poorman Gulch, 30 ft. wide, course S. 40° W.
292	Lode line; discovery point bears S. 0° 18' 50" W., 1,158.12 ft. dist.
583.98	Cor. No. 2, Set an iron post, 2 ft. long, 1 ins. diam., 15 ins. in the ground and in a concrete base, with brass cap mkd. MESCAL 5-2-4640. Thence S. 0° 11' 40" W.
160	Center local drainage, 25 ft. wide, course S. 60° W.
314.56	Intersect line 2-3 of the Copper Ace No. 4 lode of this survey.
1,160	Center of Indian Gulch, 30 ft. wide, course S. 70° W.
1,284.63	Intersect line 3-4 Sur. No. 3958 Argument lode at a point from which Cor. No. 4 bears N. 42° 22' 10" E., 62.00 ft. dist.
1,458.07	Cor. No. 3. Set an iron post, 2 ft. long, 1 ins. diam., 14 ins. in the ground and in a concrete base, with brass cap mkd. MESCAL 5-3-4640; from which Cor. No. 3 Sur. No. 3958 Eureka lode, on line 3-4 Sur. No. 3958 Argument lode, bears N. 47° 53' 08" W., 116.45 ft. dist. Thence S. 89° 17' 25" W.
118.40	Intersect line 3-4 Sur. No. 3958 Eureka lode at a point from which Cor. No. 3 bears N. 21° 55' E., 85.76 ft. dist.
159.42	Intersect line 3-4 Sur. No. 3958 Argument lode at a point from which Cor. No. 4 bears N. 42° 22' 10" E., 299.43 ft. dist.
295	Lode line; discovery point bears N. 0° 18' 50" E., 300 ft. dist.
399.23	Intersect line 3-4 Sur. No. 2570A Bonanza Mine lode, at a point from which Cor. No. 3 bears N. 0° 43' E., 1,360.07 ft. dist.

FEET	
455	Center of Indian Gulch, 40 ft. wide, course S. 40° W.
590.75	Cor. No. 4. Set an iron post, 2 ft. long, 1 ins. diam., 16 ins. in the ground and in a concrete base, with brass cap mkd. MESCAL 5-4-4640; from which Cor. No. 4 Sur. No. 2570A Bonanza Mine lode bears S. 57° 56' 30" E., 224.18 ft. dist. Cor. No. 2 Sur. No. 3958 Eureka lode, identical with Cor. No. 3 Sur. No. 3958 Genevieve lode, bears N. 68° 16' 20" W., 101.05 ft. dist. Thence N. 0° 27' 38" E.
44.97	Intersect line 2-3 Sur. No. 3958 Eureka lode at a point from which Cor. No. 3, on line 3-4 Sur. No. 3958 Argument lode, bears N. 85° 24' 45" E., 505.59 ft. dist.
813.35	Intersect line 3-4 of the Copper Ace No. 2 lode of this survey.
835	Center of Poorman Gulch, 20 ft. wide, course S. 40° W.
1,365.26	Intersect line 2-3 Sur. No. 2570A Bonanza Mine lode, at a point from which Cor. No. 3 bears S. 89° 09' 50" E., 197.56 ft. dist.
1,458.20	Cor. No. 1, and place of beginning.
MESQUITE NO. 1 LODE	
	At Cor. No. 1 of the Mesquite No. 1 lode. Set an iron post, 2 ft. long, 1 ins. diam., 15 ins. in the ground and in a concrete base, with brass cap mkd. MESQ 1-1-4640; from which The $\frac{1}{4}$ sec. cor. of secs. 13 and 24, T. 3 S., R. 13 E., G. & S. R. M., bears S. 1° 29' 03" W., 1,245.09 ft. dist., an iron post 1 ins. diam., 20 ins. above ground, firmly set, with brass cap marked as described in the official record. Cor. No. 1 Sur. No. 3958 Genevieve lode bears S. 58° 40' 35" W., 433.99 ft. dist. Thence N. 68° 04' 45" W.
244.37	Intersect line 4-1 Sur. No. 4404 Diabase No. 14 lode at a point from which Cor. No. 4, identical with Cor. No. 1 Sur. No. 4560 Contacr No. 11 lode and Cor. No. 1 of the Copper Ace No. 3 lode of this survey, bears N. 0° 54' 10" W., 378.81 ft. dist.
259.70	Intersect line 1-2 Sur. No. 3958 Genevieve lode at a point from which Cor. No. 2 bears N. 21° 55' 15" E., 1,096.89 ft. dist.
275	Centerline of road, bears N. 45° E. and S. 45° W.
300	Lode line; discovery point bears N. 22° 01' E., 250 ft. dist.

FEET	
	<p>Cor. No. 2 Sur. No. 2570A Bonanza Mine lode bears S. 32° 47' 20" W., 450.33 ft. dist.</p> <p>Thence S. 0° 11' 15" E.</p>
382.16	Intersect line 2-3 Sur. No. 2570A Bonanza Mine lode at a point from which Cor. No. 2 bears N. 89° 09' 50" W., 245.15 ft. dist.
932.16	Intersect line 3-4 of the Copper Ace No. 2 lode of this survey.
1,195	Center of Poorman Gulch, 30 ft. wide, course S. 40° W.
1,497.42	<p>Cor. No. 3.</p> <p>Set an iron post, 2 ft. long, 1 ins. diam., 15 ins. in the ground and in a concrete base, with brass cap mkd. MESQ 2-3-4640.</p> <p>Thence S. 89° 42' W.</p>
170.72	Intersect line 4-1 of the Mesquite No. 1 lode of this survey.
220	Center of Poorman Gulch, 30 ft. wide, course S. 45° W.
263.67	Intersect line 1-2 Sur. No. 2570A Bonanza Mine lode at a point from which Cor. No. 2 bears N. 0° 45' 40" E., 1,120.33 ft. dist.
297	Lode line; discovery point bears N. 1° 09' 45" W., 100 ft. dist.
336.69	Intersect line 3-4 of the Copper Ace No. 3 lode of this survey.
595.66	<p>Cor. No. 4.</p> <p>Set an iron post, 2 ft. long 1 ins. diam., 13 ins. in the ground and in a concrete base, with brass cap mkd. MESQ 2-4-4640.</p> <p>Thence N. 0° 01' 20" W.</p>
186.23	Intersect line 3-4 of the Mesquite No. 1 lode of this survey.
585.23	Intersect line 2-3 of the Copper Ace No. 3 lode, identical with line 3-4 of the Copper Ace No. 1 lode, both of this survey.
1,340	Center local drainage, 15 ft. wide, course S. 85° W.
1,460	Centerline of road, bears East and West.
1,497.43	Cor. No. 1, and place of beginning.
	COPPER ACE NO. 1 LODE

FEET	
560	Center of Poorman Gulch, 20 ft. wide, course S. 20° W.
597.94	Cor. No. 4. Set an iron post, 2 ft. long, 1 ins. diam., 14 ins. in the ground and in a concrete base, with brass cap mkd. MESQ 1-4-4640; from which Cor. No. 1 Sur. No. 2570A Bonanza Mine lode bears S. 15° 19' 30" W., 386.90 ft. dist. Cor. No. 2 Sur. No. 3958 Genevieve lode bears S. 55° 01' 15" W., 476.28 ft. dist. Thence S. 21° 56' 10" W.
12.04	Intersect line 3-4 of the Mesquite No. 2 lode of this survey.
269.30	Intersect line 2-3 Sur. No. 3958 Genevieve lode at a point from which Cor. No. 2 bears S. 85° 24' 45" W., 290.58 ft. dist.
269.34	Intersect line 1-2 Sur. No. 2570A Bonanza Mine lode at a point from which Cor. No. 1 bears S. 0° 45' 40" W., 123.32 ft. dist.
499.37	Intersect line 3-4 of the Copper Ace No. 3 lode of this survey.
695	Center of Indian Gulch, 15 ft. wide, course West.
730	Centerline of road, bears East and West.
1,001.97	Intersect line 4-1 of the Copper Ace No. 3 lode of this survey.
1,495.88	Cor. No. 1, and place of beginning.
MESQUITE NO. 2 LODE	
	At Cor. No. 1 of the Mesquite No. 2 lode. Set an iron post, 2 ft. long, 1 ins. diam., 14 ins. in the ground and in a concrete base, with brass cap mkd. MESQ 2-1-4640; from which The $\frac{1}{4}$ sec. cor. of secs. 12 and 13 bears N. 8° 16' 14" W., 1,172.77 ft. dist., previously described. Thence N. 89° 42' E.
295	Lode line; discovery point bears S. 1° 09' 45" E., 1,397.41 ft. dist.
306.88	Intersect line 2-3 of the Copper Ace No. 1 lode and line 4-1 of the Copper Ace No. 2 lode of this survey.
565	Centerline of road, bears N. 5° E. and S. 5° W.
591.38	Cor. No. 2. Set an iron post, 2 ft. long, 1 ins. diam., 12 ins. in the ground and in a concrete base, with brass cap mkd. MESQ 2-2-4640; from which

FEET	
	<p>Cor. No. 2 Sur. No. 2570A Bonanza Mine lode bears S. 32° 47' 20" W., 450.33 ft. dist.</p> <p>Thence S. 0° 11' 15" E.</p>
382.16	Intersect line 2-3 Sur. No. 2570A Bonanza Mine lode at a point from which Cor. No. 2 bears N. 89° 09' 50" W., 245.15 ft. dist.
932.16	Intersect line 3-4 of the Copper Ace No. 2 lode of this survey.
1,195	Center of Poorman Gulch, 30 ft. wide, course S. 40° W.
1,497.42	<p>Cor. No. 3.</p> <p>Set an iron post, 2 ft. long, 1 ins. diam., 15 ins. in the ground and in a concrete base, with brass cap mkd. MESQ 2-3-4640.</p> <p>Thence S. 89° 42' W.</p>
170.72	Intersect line 4-1 of the Mesquite No. 1 lode of this survey.
220	Center of Poorman Gulch, 30 ft. wide, course S. 45° W.
263.67	Intersect line 1-2 Sur. No. 2570A Bonanza Mine lode at a point from which Cor. No. 2 bears N. 0° 45' 40" E., 1,120.33 ft. dist.
297	Lode line; discovery point bears N. 1° 09' 45" W., 100 ft. dist.
336.69	Intersect line 3-4 of the Copper Ace No. 3 lode of this survey.
595.66	<p>Cor. No. 4</p> <p>Set an iron post, 2 ft. long 1 ins. diam., 13 ins. in the ground and in a concrete base, with brass cap mkd. MESQ 2-4-4640.</p> <p>Thence N. 0° 01' 20" W.</p>
186.23	Intersect line 3-4 of the Mesquite No. 1 lode of this survey.
585.23	Intersect line 2-3 of the Copper Ace No. 3 lode, identical with line 3-4 of the Copper Ace No. 1 lode, both of this survey.
1,340	Center local drainage, 15 ft. wide, course S. 85° W.
1,460	Centerline of road, bears East and West.
1,497.43	Cor. No. 1, and place of beginning.
COPPER ACE NO. 1 LODE	

SURVEY NO. 4640

7.

FEET	Beginning at Cor. No. 1 of the Copper Ace No. 1 lode, identical with Cor. Nos. 1 Sur. No. 4404 Diabase No. 5 lode and Diabase No. 8 lode.
	<p>An iron post $1\frac{1}{2}$ ins. diam., protruding 24 ins. above the ground with base surrounded by a mound of stone and concrete, with brass cap mkd. D 5-1-4404 and D 8-1-4404; I add the following marks on the brass cap: CA 1-1-4640; from which</p> <p>The $\frac{1}{4}$ sec. cor. of secs. 12 and 13, bears N. $9^{\circ} 28' 05''$ E., 595.21 ft. dist., previously described.</p> <p>Cor. No. 4 Sur. No. 4581 Consolation No. 1 lode bears S. $0^{\circ} 42' 45''$ W., 100.02 ft. dist.</p> <p>Thence S. $88^{\circ} 22' 30''$ E.</p>
280	Center local drainage, 10' wide, course S. 40° W.
295	Lode line; discovery point bears S. $1^{\circ} 37' 50''$ W., 500 ft. dist.
589.85	Cor. No. 2, identical with Cor. No. 1 of the Copper Ace No. 2 lode of this survey.
	<p>Set an iron post 2 ft. long, 1 ins. diam., 12 ins. in the ground and in a concrete base, with brass cap mkd. CA 1-2-4640 and CA 2-1-4640.</p> <p>Thence S. $1^{\circ} 39' 50''$ W.</p>
70.15	Intersect line 3-4 Sur. No. 4581 Consolation No. 1 lode at a point from which Cor. No. 4 bears S. $88^{\circ} 43' 10''$ W., 588.96 ft. dist.
305	Center local drainage, 15 ft. wide, course N. 80° W.
555.37	Intersect line 1-2 of the Mesquite No. 2 lode of this survey.
637.5	Centerline of road, bears S. 80° E. and N. 80° W.
1,477.50	Cor. No. 3, identical with Cor. No. 4 of the Copper Ace No. 2 lode and Cor. No. 3 of the Copper Ace No. 3 lode of this survey.
	<p>Set an iron post 2 ft. long, 1 ins. diam., 11 ins. in the ground and in a concrete base, with brass cap mkd. CA 1-3-4640, CA 2-4-4640, and CA 3-3-4640; from which</p> <p>Cor. No. 2 Sur. No. 2570A Bonanza Mine lode bears N. $7^{\circ} 03' 10''$ E., 548.81 ft. dist.</p> <p>Thence N. $88^{\circ} 22' 30''$ W.</p>
130	Crest of sharp ridge, bears North and South.
279.86	Intersect line 4-1 of the Mesquite No. 2 lode of this survey.
294	Lode line; discovery point bears N. $1^{\circ} 37' 50''$ E., 977.50 ft. dist.
552.3	Centerline of road, bears North and South.

FEET	
587.31	<p>Cor. No. 4, identical with Cor. No. 2 Sur. No. 4404 Diabase No. 8 lode, Cor. No. 4 Sur. No. 4560 Contact No. 11 lode, and Cor. No. 2 of the Copper Ace No. 3 lode of this survey.</p> <p>An iron post, $1\frac{1}{2}$ ins. diam., 18 ins. above ground with base surrounded by a mound of concrete and stone, with brass cap mkd. D 8-2-4404 and C 11-4-4560; I add the following marks on the brass cap: CA 1-4-4640 and CA 3-2-4640; from which</p> <p>Cor. No. 3 Sur. No. 2569A Black Hussar lode bears N. $65^{\circ} 26'$ W., 140.65 ft. dist.</p> <p>Thence N. $1^{\circ} 33' 55''$ E.</p>
585 1,000	Center of local drainage, 15 ft. wide, course S. 45° W. Center of local drainage, 20 ft. wide, course S. 65° W.
1,185	Centerline of road, bears N. 50° W. and S. 50° E.
1,457.55	Intersect line 4-1 Sur. No. 4581 Consolation No. 1 lode at a point from which Cor. No. 4 bears S. $0^{\circ} 30'$ W., 80.06 ft. dist.
1,477.51	Cor. No. 1, and place of beginning.
COPPER ACE NO. 2	
Beginning at Cor. No. 1 of the Copper Ace No. 2 lode, identical with Cor. No. 2 of the Copper Ace No. 1 lode of this survey, from which	
The $\frac{1}{4}$ sec. cor. of secs. 12 and 13, bears N. $39^{\circ} 09' 24''$ W., 778.71 ft. dist., previously described.	
Thence S. $88^{\circ} 22' 30''$ E.	
250	Center of local drainage, 15 ft. wide, course S. 20° W.
294	Lode line; discovery point bears S. $1^{\circ} 40' 20''$ W., 500 ft. dist.
451.04	Intersect Cor. No. 1 of the Copper Ace No. 4 lode of this survey.
588.06	<p>Cor. No. 2, on line 1-2 of the Copper Ace No. 4 lode of this survey.</p> <p>Set a brass tablet, 2 ins. diam., $2\frac{1}{2}$ ins. stem, grouted into andesite ledge rock, with top mkd. CA 2-2-4640.</p> <p>Thence S. $1^{\circ} 42' 50''$ W.</p>
40.31	Intersect line 3-4 Sur. No. 4581 Consolation No. 1 lode at a point from which Cor. No. 3 bears N. $88^{\circ} 43' 10''$ E., 321.82 ft. dist.
270	Centerline of road, bears N. 50° E. and S. 50° W.
827.00	Intersect line 1-2 of the MESCAL No. 5 lode of this survey.

SURVEY NO. 4640

9.

FEET	
923.79	Intersect line 2-3 Sur. No. 2570A Bonanza Mine lode at a point from which Cor. No. 2 bears N. 89° 09' 50" W., 535.78 ft. dist.
1,050	Center of Poorman Gulch, 40 ft. wide, course S. 30° W.
1,260	Center of local drainage, 20 ft. wide, course S. 55° W., 70 ft. to junction with Poorman Gulch.
1,477.51	Cor. No. 3, on line 3-4 of the Copper Ace No. 4 lode of this survey. Set an iron post, 2 ft. long, 1 ins. diam., 14 ins. in the ground and in a concrete base, with brass cap mkd. CA 2-3-4640; from which Cor. No. 3 Sur. No. 2570A Bonanza Mine lode bears N. 7° 37' 35" E., 557.57 ft. dist. Thence N. 88° 22' 30" W.
107.76	Intersect Cor. No. 4 of the Copper Ace No. 4 lode of this survey.
128.02	Intersect line 4-1 of the MESCAL No. 5 lode of this survey.
155	Center of Poorman Gulch, 30 ft. wide, course S. 10° W.
272.35	Intersect line 2-3 of the Mesquite No. 2 lode of this survey.
293	Lode line; discovery point bears N. 1° 40' 20" E., 977.50 ft. dist.
526.63	Intersect line 1-2 Sur. No. 2570A Bonanza Mine lode at a point from which Cor. No. 2 bears N. 0° 45' 40" E., 546.41 ft. dist.
586.77	Cor. No. 4, identical with Cor. Nos. 3 of the Copper Ace No. 1 and the Copper Ace No. 3 lodes of this survey, from which Cor. No. 2 Sur. No. 2570A Bonanza Mine lode bears N. 7° 03' 10" E., 548.81 ft. dist. Thence N. 1° 39' 50" E.
840	Centerline of road, bears S. 80° E. and N. 80° W.
922.13	Intersect line 1-2 of the Mesquite No. 2 lode of this survey.
1,407.35	Intersect line 3-4 Sur. No. 4581 Consolation No. 1 lode at a point from which Cor. No. 3 bears N. 88° 43' 10" E., 910.64 ft. dist.
1,477.50	Cor. No. 1, and place of beginning.
COPPER ACE NO. 3 LODE	
Beginning at Cor. No. 1 of the Copper Ace No. 3 lode, identical with Cor. No. 4 Sur. No. 4404 Diabase No. 14 lode and Cor. No. 1 Sur. No. 4560 Contact No. 11 lode.	

FEET	An iron post, 1½ ins. diam., 20 ins. above ground, with base surrounded by a mound of stone and concrete, with brass cap mkd. D 14-4-4404 and C 11-1-4560; I add the following marks on the brass cap: CA 3-1-4640; from which
	The ¼ sec. cor. of secs. 13 and 24, bears S. 6° 40' 02" E., 1,726.33 ft. dist., previously described.
	Cor. No. 4 Sur. No. 2569A Black Hussar lode bears N. 31° 23' W., 144.5 ft. dist.,
	Thence N. 2° 05' E.
210	Center of Indian Gulch, 20 ft. wide, course S. 50° W.
415	Center of Poorman Gulch, 25 ft. wide, course S. 50° W.
608.70	Intersect line 2-3 of the Mesquite No. 1 lode of this survey.
1,350	Centerline of road, bears N. 45° W. and S. 45° E.
1,499.13	Cor. No. 2, identical with Cor. No. 2 Sur. No. 4404 Diabase No. 8 lode, Cor. No. 4 Sur. No. 4560 Contact No. 11 lode, and Cor. No. 4 of the Copper Ace No. 1 lode of this survey.
	Thence S. 88° 22' 30" E.
35	Centerline of road, bears North and South.
293.31	Lode line; discovery point bears S. 2° 02' 30" W., 150 ft. dist.
307.45	Intersect line 4-1 of the Mesquite No. 2 lode of this survey.
457.31	Crest of sharp ridge, bears N. and S.
587.31	Cor. No. 3, identical with Cor. No. 3 of the Copper Ace No. 1 lode and Cor. No. 4 of the Copper Ace No. 2 lode of this survey.
	Thence S. 2° 02' 32" W.
496.76	Intersect line 3-4 of the Mesquite No. 1 lode of this survey.
576.30	Intersect line 3-4 of the Mesquite No. 2 lode of this survey.
725	Center of Poorman Gulch, 35 ft. wide, course S. 65° W.
820.52	Intersect line 2-3 Sur. No. 3958 Genevieve lode at a point from which Cor. No. 2 bears S. 85° 24' 45" W., 211.77 ft. dist.
1,027.77	Intersect line 4-1 of the Mesquite No. 1 lode of this survey.
1,215	Center of Indian Gulch, 35 ft. wide, course N. 85° W.

FEET	
1,240	End of unimproved road; centerline bears West.
1,499.13	<p>Cor. No. 4.</p> <p>Set an iron post, 2 ft. long, 1 ins. diam., 14 ins. in the ground and in a concrete base, with brass cap mkd. CA 3-4-4640; from which</p> <p>Cor. No. 2 Sur. No. 3958 Genevieve lode bears N. 15° 47' W., 687.15 ft. dist.</p> <p>Cor. No. 1 Sur. No. 2570A Bonanza Mine lode, bears N. 10° 12' 50" E., 570.17 ft. dist.</p> <p>Thence N. 88° 22' 30" W.</p>
171.03	Intersect line 4-1 of the Mesquite No. 1 lode of this survey.
294	Lode line; discovery point bears N. 2° 02' 30" E., 1,349.13 ft. dist.
375	Road; centerline bears North and South.
448.11	Intersect line 1-2 Sur. No. 3958 Genevieve lode at a point from which Cor. No. 2 bears N. 21° 55' 15" E., 699.08 ft. dist.
588.38	Cor. No. 1 and place of beginning.
COPPER ACE NO. 4 LODE	
Beginning at Cor. No. 1 of the Copper Ace No. 4 lode, on line 1-2 of the Copper Ace No. 2 lode of this survey.	
Set an iron post, 2 ft. long, 1 ins. diam., 12 ins. in the ground and in a concrete base, with brass cap mkd. CA 4-1-4640; from which	
The $\frac{1}{4}$ sec. cor. of secs. 12 and 13, bears N. 56° 48' 28" W., 1,126.35 ft. dist., previously described.	
Thence S. 88° 22' 30" E.	
137.02	Intersect Cor. No. 2 of the Copper Ace No. 2 lode of this survey.
295	Lode line; discovery point bears S. 0° 35' 25" W., 150 ft. dist.
457.90	Intersect line 2-3 Sur. No. 4581 Consolation No. 1 lode at a point from which Cor. No. 3 bears S. 0° 30' W., 24.00 ft. dist.
585.75	<p>Cor. No. 2.</p> <p>Set an iron post, 2 ft. long, 1 ins. diam., 15 ins. in the ground and in a concrete abse, with brass cap mkd. CA 4-2-4640; from which</p> <p>Cor. No. 3 Sur. No. 4581 Consolation No. 1 lode bears S. 80° 57' 30" W., 129.62 ft. dist.</p> <p>Thence S. 1° 39' 58" W.</p>
530	Center of Poorman Gulch, 20 ft. wide, course S. 40° W.
970	Center of local drainage, 25 ft. wide, course S. 60° W.

FEET	
1,123.45	Intersect line 2-3 of the MESCAL No. 5 lode of this survey.
1,477.51	Cor. No. 3. This corner falls on an unstable rock slide where a monument cannot be preserved. Thence N. 88° 22' 30" W.
98.66	Point for witness Cor. No. 3. Set an iron post, 2 ft. long, 1 ins. diam., 15 ins. in the ground and in a concrete base, with brass cap mkd. WC-CA 4-3-4640.
263	Lode line; discovery point bears N. 0° 35' 25" E., 1,327.75 ft. dist.
382.87	Intersect line 3-4 Sur. No. 2570A Bonanza Mine lode at a point from which Cor. No. 3 bears N. 0° 43' E., 554.58 ft. dist.
449.96	Intersect Cor. No. 3 of the Copper Ace No. 2 lode of this survey.
557.72	Cor. No. 4. Set an iron post, 2 ft. long, 1 ins. diam., 16 ins. in the ground and in a concrete base, with brass cap mkd. CA 4-4-4640; from which Cor. No. 3 Sur. No. 2570A Bonanza Mine lode bears N. 18° 17' 45" E., 578.85 ft. dist. Thence N. 0° 34' 45" E.
80	Center of Poorman Gulch, 40 ft. wide, course S. 25° W.
552.18	Intersect line 2-3 Sur. No. 2570A Bonanza Mine lode at a point from which Cor. No. 3 bears S. 89° 09' 50" E., 176.15 ft. dist.
645.70	Intersect line 1-2 of the MESCAL No. 5 lode of this survey.
1,110	Centerline of road, bears N. 50° E. & S. 50° W.
1,430.53	Intersect line 3-4 Sur. No. 4581 Consolation No. 1 lode at a point from which Cor. No. 3 bears N. 88° 43' 10" E., 458.10 ft. dist.
1,477.75	Cor. No. 1, and place of beginning.
SURVEY NO. 4640	
AREAS	
	Acres
Total area, MESCAL No. 5 lode	19.658
Area in conflict with --	
Sur. No. 2570A Bonanza Mine lode	6.085
Sur. No. 3958 Eureka lode	0.689

SURVEY NO. 4640

FEET		
	Sur. No. 3958 Eureka lode, exclusive of its conflict with Sur. No. 2570A Bonanza Mine lode	0.463
	Sur. No. 3958 Argument lode	0.317
	Sur. No. 3958 Argument and Eureka lodes	0.969
	Total area, Mesquite No. 1 lode	20.543
	Area in conflict with --	
	Sur. No. 2569A Black Hussar lode	0.275
	Sur. No. 2570A Bonanza Mine lode	0.322
	Sur. No. 3958 Genevieve lode	6.930
	Sur. No. 3958 Genevieve lode, exclusive of its conflict with Sur. No. 2570A Bonanza Mine lode	6.930
	Sur. No. 4404 Diabase No. 14 lode	2.060
	Sur. No. 4404 Diabase No. 14 lode, exclusive of its conflict with Sur. No. 3958 Genevieve lode	2.053
	Sur. No. 4560 Contact No. 11 lode	1.548
	Sur. No. 4560 Contact No. 11 lode, exclusive of its conflict with Sur. No. 2569A Black Hussar lode	1.273
	Mesquite No. 2 lode of this survey	0.972
	Mesquite No. 2 lode of this survey, exclusive of its conflict with Sur. No. 2570A Bonanza Mine lode	0.904
	Total Area, Mesquite No. 2 lode	20.403
	Area in conflict with --	
	Sur. No. 2570A Bonanza Mine lode	6.528
	Total Area, Copper Ace No. 1 lode	19.964
	Area in conflict with --	
	Sur. No. 4581 Consolation No. 1 lode	1.151
	Mesquite No. 2 lode of this survey	6.175
	Total Area, Copper Ace No. 2 lode	19.924
	Area in conflict with --	
	Sur. No. 2570A Bonanza Mine lode	6.708
	Sur. No. 4581 Consolation No. 1 lode	0.746
	MESCAL No. 5 lode of this survey	2.009
	MESCAL No. 5 lode of this survey, exclusive of its conflict with:	
	(1) Sur. No. 2570A Bonanza Mine lode	0.307
	(2) Copper Ace No. 4 lode of this survey	0.310
	(3) Sur. No. 2570A Bonanza Mine lode and Copper Ace No. 4 lode of this survey.	0.046
	Copper Ace No. 4 lode of this survey	4.151
	Copper Ace No. 4 lode of this survey, exclusive of its conflict with:	
	(1) Sur. No. 2570A Bonanza Mine lode	2.714
	(2) Sur. No. 4581 Consolation No. 1 lode	4.014
	(3) MESCAL No. 5 lode of this survey	2.453
	Mesquite No. 2 lode of this survey	6.372
	Mesquite No. 2 lode of this survey, exclusive of its conflict with Sur. No. 2570A Bonanza Mine lode	3.230
	Total Area, Copper Ace No. 3 lode	20.230
	Area in conflict with --	
	Sur. No. 3958 Genevieve lode	5.011
	Mesquite No. 1 lode of this survey	12.700
	Mesquite No. 1 lode of this survey, exclusive of its conflict with:	
	(1) Sur. No. 3958 Genevieve lode	8.614
	(2) Mesquite No. 2 lode of this survey	11.904
	(3) Sur. No. 3958 Genevieve lode and Mesquite No. 2 lode of this survey	7.818
	Mesquite No. 2 lode of this survey	3.592
	Mesquite No. 2 lode of this survey, exclusive of its conflict with Mesquite No. 1 lode of this survey	2.795

FEET	
	Total Area, Copper Ace No. 4 lode 19.393
	Area in conflict with --
	Sur. No. 2570A Bonanza Mine lode 2.229
	Sur. No. 4581 Consolation No. 1 lode 0.374
	MESCAL No. 5 lode of this survey 8.480
	MESCAL No. 5 lode of this survey, exclusive --of its conflict with Sur. No. 2570A Bonanza Mine lode 6.250
	LOCATION
	This survey is located in Sec. 13, T. 3 S., R. 13 E., G. & S. R. M., Pinal County, Arizona.
	The survey of the MESCAL No. 5, Mesquite No. 1, Mesquite No. 2, Copper Ace No. 1, Copper Ace No. 2, Copper Ace No. 3, and Copper Ace No. 4 lodes is identical with the location as marked on the ground.
	EXPENDITURES
	The improvements and the value of the labor and improvements made upon or for the benefit of each of the lode locations embraced in said mining claim by the claimant or its grantors are as follows:
No. 1	The discovery point of the MESCAL No. 5 lode is on the lode line 1158.12 ft. from a point on line 1-2, 292 ft. from Cor. No. 1. Value, none
No. 2	A trench, the center point of which is on the lode line 1190 ft. from a point on line 1-2, 292 ft. from Cor. No. 1 of the MESCAL No. 5 lode; 20 ft. wide, 5 ft. average depth, runs East 40 ft. and West 40 ft. Value, \$800
No. 1	The discovery shaft of the Mesquite No. 1 lode, the center of which being the discovery point, is on the lode line 250 ft. from a point on line 1-2, 300 ft. from Cor. No. 1; 4x6 ft., 10 ft. deep. Value, \$240
No. 1	The discovery trench of the Mesquite No. 2 lode, the center of which being the discovery point, is on the lode line 100 ft. from a point on line 3-4, 297 ft. from Cor. No. 3; 11 ft. wide, 8 ft. average depth, runs N. 75° W., 25 ft., and S. 75° E., 25 ft. Value, \$880
No. 1	The discovery cut of the Copper Ace No. 1 lode, the face of which being the discovery point, is on the lode line 500 ft. from the center of line 1-2; 10 ft. wide, 10 ft. face; running S. 80° E., 15 ft. to face. Value, \$375
No. 1	The discovery cut of the Copper Ace No. 2 lode, the face of which being the discovery point, is on the lode line 500 ft. from the center of line 1-2; average width 15 ft., 8 ft. face; running N. 45° W., 32 ft. to face. Value, \$960

FEET		
No. 1	<p>The discovery cut of the Copper Ace No. 3 lode, the face of which being the discovery point, is on the lode line 150 ft. from the center of line 3-4; average width 16 ft., 15 ft. face; running N. 50° E., 9 ft. to face. Value, \$540</p>	
No. 1	<p>The discovery point of the Copper Ace No. 4 lode is on the lode line 150 ft. from the center of line 1-2. Value, none.</p>	
No. 2	<p>A cut, the face of which bears S. 78° 30' W., 260 ft. from Cor. No. 2 Copper Ace No. 4 lode; 14 ft. wide, 12 ft. face, running N. 45° W., 13 ft. to face. Value, \$546</p>	
	<p>An interest in a common improvement described as follows: A diamond drill hole, the center of which bears S. 56° 20' W., 230 ft. from Cor. No. 3 Copper Ace No. 3 lode; 900 feet in depth. Value of drill hole, \$4,500 Value of one-seventh interest \$642.86</p>	
	<p>This improvement is for the development of the seven lodes of this survey and was made subsequent to the location of each lode and to the time since which common ownership and contiguity have prevailed; therefore an undivided one-seventh interest in its value is hereby credited to each of said lodes of the common group.</p>	
	<p>An interest in a common improvement described as follows: An unimproved access road, 12 ft. in width and 1,700 ft. in length, which has been constructed across the central and northern portions of the Copper Ace No. 1 lode, the Mesquite No. 2 lode, the Copper Ace No. 2 lode, and the Copper Ace No. 4 lode.</p>	
	<p>Value of access road, \$1,700 Value of one-fourth interest, \$425</p>	
	<p>This improvement is for the development of the four lodes listed above and was made subsequent to the location of each lode and to the time since which common ownership and contiguity have prevailed; therefore an undivided one-fourth interest in its value is hereby credited to each of said lodes of the common group.</p>	
	<p style="text-align: center;">OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA</p> <p>Sur. No. 2569A Black Hussar lode: Cors. Nos. 3 and 4 are 4x4 posts, firmly set and appear to be properly marked, although the markings are almost illegible because of the age of the posts; Cor. No. 1 was destroyed but its position was restored from found bearing rock. Line 3-4 was found to be S. 0° 04' 20" W., 1,433.3 ft., instead of S. 0° 38' W., 1,450.6 ft. as approved; line 4-1 was found to be N. 89° 53' W., 594.5 ft., instead of N. 89° 45' W., 600 ft. as approved.</p> <p>Sur. No. 2570A Bonanza Mine lode: Cors. Nos. 2 and 3 are 4x4 posts, firmly set but bearing no legible markings; Cor. No. 4 is a clearly marked 4x4 post which was found lying below a mound of stones, subsequently restored to center of said mound of stones; Cor. No. 1 could not be found but its position was re-established from bearing rock. Line 1-2 was found to be N. 0° 45' 40" E., 1,481.83 ft., instead of N. 0° 49' E., 1,471.5 ft. as approved;</p>	

FEET

line 2-3 was found to be S. 89° 09' 50" E., 593.22 ft., instead of S. 89° 04' E., 600 ft. as approved; line 3-4 was found to be S. 0° 43' W., 1,481.83 ft., instead of S. 0° 49' W., 1,471.5 ft. as approved; and line 4-1 was found to be N. 89° 09' 50" W., 594.40 ft., instead of N. 89° 04' W., 600 ft., as approved.

Sur. No. 3958 Argument lode: Cors. Nos. 3 and 4 are iron posts, 1 ins. diam., firmly set, with brass caps mkd. as per official record. Line 3-4 was found to be N. 42° 22' 10" E., 842.75 ft., instead of N. 42° 20' E., 842.04 ft., as approved.

Sur. No. 3958 Eureka lode: Cor. No. 2 is identical with Cor. No. 3 Sur. No. 3958 Genevieve lode. Cors. Nos. 2 and 3 are iron posts, 1 ins. diam., firmly set, with brass caps mkd. as per official record; Cor. No. 4 is an iron post, 1 ins. diam., firmly set, but without a brass cap. Line 2-3 was found to be N. 85° 24' 45" E., 600.12 ft., instead of N. 85° 23' E., 600 ft., as approved; line 3-4 was found to be S. 21° 55' W., 1,443.84 ft., instead of S. 21° 55' W., 1,443.3 ft., as approved. Cor. No. 3 was found to be on line 3-4, Sur. No. 3958 Argument lode, as approved.

Sur. No. 3958 Genevieve lode: Cors. Nos. 1 and 2 are iron posts, 1 ins. diam., firmly set, with brass caps mkd. as per official record; Cor. No. 3 identical with Cor. No. 2 Sur. No. 3958 Eureka lode, previously described. Line 1-2 was found to be N. 21° 55' 15" E., 1,444.60 ft., instead of N. 21° 55' E., 1,443.3 ft., as approved; line 2-3 was found to be N. 85° 24' 45" E., 600.40 ft., instead of N. 85° 23' E., 600 ft., as approved.

Sur. No. 4404 Diabase No. 8 lode: Cors. Nos. 1 and 2 previously described. Line 1-2 identical with line 4-1 of the Copper Ace No. 1 lode of this survey, was found to be S. 1° 33' 55" W., 1,477.51 ft., instead of S. 1° 33' 20" W., 1,477.85 ft. as approved.

Sur. No. 4404 Diabase No. 14 lode: Cor. No. 4 previously described; Cor. No. 1 is an iron post 1½ ins. diam., 18 ins. above ground, firmly set, with brass cap mkd. D 14-1-4404 and D 15-1-4404. Cor. No. 3, identical with Cor. No. 4, Sur. No. 4404 Diabase No. 13 lode; Cor. No. 1, Sur. No. 4404 Diabase No. 10 lode; and Cor. No. 2, Sur. No. 4560 Contact No. 11 lode, is an iron post 1½ ins. diam., 18 ins. above ground, firmly set, with brass cap mkd. as per official record. Line 3-4 was found to be S. 89° 03' E., 600 ft., instead of S. 89° 04' E., 600 ft., as approved; line 4-1 was found to be S. 0° 54' 10" E., 1,394.42 ft., instead of S. 0° 54' E., 1,394.13 ft., as approved.

Sur. No. 4560 Contact No. 11 lode: Cors. Nos. 1, 2 and 4 previously described. Line 1-2, identical with line 3-4 Sur. No. 4404 Diabase No. 14 lode was found to be N. 89° 03' W., 600 ft., instead of N. 89° 04' W., 600 ft., as approved; line 4-1, identical with line 1-2 of the Copper Ace No. 3 lode of this survey, was found to be S. 2° 05' W., 1,499.13 ft., instead of S. 2° 05' W., 1,498.61 ft., as approved.

F E E T

Sur. No. 4581 Consolation No. 1 lode: All corners are 1 ins. iron posts set in concrete bases and protruding 12 ins. above ground, with brass caps 3 ins. diam. and mkd. according to the official record. Line 2-3 was found to be S. 0° 30' W., 600 ft., instead of S. 0° 31' W., 600 ft., as approved. Line 3-4 was found to be S. 88° 43' 10" W., 1,499.60 ft., instead of S. 88° 44' 10" W., 1,499.88 ft., as approved; line 4-1 was found to be N. 0° 30' E., 598.66 ft., instead of N. 0° 31' E., 598.89 ft., as approved.

FIELD ASSISTANTS

Name	Capacity
Wilburn H. Martin	Chainman

STATE OF ARIZONA

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FEET		

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

Name of Mineral Surveyor	Date
Travis L. Gant	September 15, 1966

I HEREBY CERTIFY That in pursuance of an order received from the Dept. of Interior Bureau of Land Management, at Phoenix, Arizona, dated February 18, 1966, I have carefully executed the survey of the claim of Kenecott Copper Corporation Copper Ace No. 1, Copper Ace No. 2, known as the (lode, placer, or mill site) Copper Ace No. 3, Copper Ace No. 4, MESCAL No. 5, situated in Section 13 Mineral Creek Mining District, Mesquite No. 1, Mesquite No. 2, Township 3 S., Range 13 E., Pinal County, Arizona Meridian, in the State of Arizona Gila and Salt River

This survey, designated as number 4640, has been executed by me and under my direction and has been made in strict conformity with said order, the Manual of Instructions for the Survey of Public Lands of the United States, and in the specific manner described in the foregoing field notes.

I FURTHER CERTIFY That the labor expended and improvements made upon and for the benefit of the (lode or placer) Lode location(s) embraced in the said mining claim by claimant(s) or its grantors are fully stated in my report. The character, extent, location, and itemized value are specified in full detail. No portion of, or interest in, said labor and improvements so credited to this claim has been included in the estimate of expenditures upon any other claim.

Globe, Arizona (Location) *Travis L. Gant* (Signature of Mineral Surveyor)

CERTIFICATE OF APPROVAL

Bureau of Land Management
Office
Arizona State Office
Location
Phoenix, Arizona
Date
August 2, 1967

The foregoing field notes of mineral survey number 4640, in Section 13, Township 3 S., Range 13 E., Gila and Salt River Meridian, in the State of Arizona, executed by Travis L. Gant, Mineral Surveyor, under order dated February 18, 1966, having been critically examined and the necessary corrections made prior to their certification by the surveyor, the field notes and the survey therein described are hereby approved.

Kenneth F. Hansen (Authorized Signature) *Kenneth F. Hansen* Acting State Director (Title)

CERTIFICATE OF TRANSCRIPT

I CERTIFY That the foregoing transcript of field notes of the above described mineral survey number is a true copy of the original field notes.

(Authorized Signature) (Title)

Title 18, U. S. C. section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

October 15, 1964

Walla, Utah

Dear Sir: This letter is in response to your letter of October 10, 1964, regarding the proposed acquisition of land for the Walla Walla National Monument. The Bureau of Land Management is currently reviewing the proposal and will advise you of the results of our review in the near future.

Very truly yours,
Director, Bureau of Land Management

Enclosed for you are two copies of a letterhead memorandum (LHM) dated and captioned as above. The LHM contains a copy of the proposed acquisition plan and a copy of the Bureau's response to your letter.

Very truly yours,
Director, Bureau of Land Management

Enclosed for you are two copies of a letterhead memorandum (LHM) dated and captioned as above. The LHM contains a copy of the proposed acquisition plan and a copy of the Bureau's response to your letter.

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