

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MINERAL SURVEY NO. 4404

ARIZONA

ARIZONA Land District.

FIELD NOTES

Of The Survey Of The Mining Claim Of

KENNECOTT COPPER CORPORATION

Known As The

Diabase No. 1, Diabase No. 2, Diabase No. 4, Diabase No. 5, Diabase No. 7,
Diabase No. 8, Diabase No. 10, Diabase No. 13, Diabase No. 14, Diabase No. 15 lodes.

Mineral Creek Mining District,

Pinal County, Arizona

Sections 12, 13 & 24, Township 3 South, Range 13 East, G.&S.R.M.

Surveyed under order dated June 26, 1956

by Oscar T. Smith
Mineral Surveyor.

Diabase No. 1, Diabase No. 2, Diabase No. 4, Diabase No. 5, Diabase No. 7,
Diabase No. 8 and Diabase No. 10 lodes, located May 6, 1948. Diabase No. 13,
Diabase No. 14 and Diabase No. 15 lodes located June 14, 1948.

Claim located, 19

Survey commenced July 10, 19 56

Survey completed May 30, 19 57

Address of claimant Ray, Arizona

DATES OF AMENDED LOCATIONS

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MINERAL SURVEY NO. 4404

Chains
Feet

This survey was made with a Keuffel and Esser Transit No. 131481, with horizontal limb 5 ins. diam., having two double opposite verniers, and full vertical circle 4 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 observation:

July 10, 1956, at a point from which cor. No. 1 Diabase No. 1 lode of this survey bears N. $66^{\circ} 45' 20''$ W., 599.92 ft. dist. in latitude $33^{\circ} 10' 10''$ N. and longitude $110^{\circ} 58' 45''$ 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 angle from a reference point about 1,660 ft. SW., clockwise to the sun.

Mean time of observation, 105th
meridian standard time = 2h59m30s p.m.

Declination of sun at mean time
of observation = $22^{\circ} 09' 20''$

Mean observed vertical angle to
sun's center = $55^{\circ} 02' 30''$

Mean horizontal angle from
reference point to sun's center = $26^{\circ} 35' 50''$ SW.

True bearing to reference point = $S. 54^{\circ} 52' 04''$ W.

The lines were measured with a Keuffel and Esser steel tape 500 ft. in length, graduated every foot for 500 ft., with the first and last foot graduated in tenths and hundredths; the tape was compared with a standard 100 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 $13^{\circ} 41'$ E.

SURVEY NO. 4404

DIABASE NO. 1 LODE

At cor. No. 1 of Diabase No. 1 lode, identical with cor. No. 2 of Diabase No. 2 lode, cor. No. 3 of Diabase No. 5 lode, and cor. No. 4 of Diabase No. 4 lode of this survey.

Set an iron pipe, 3 ft. long, $1\frac{1}{2}$ ins. diam., 18 ins. in the ground, with brass cap mkd. D1-1-D2-2-D5-3-D4-4-4404; from which

The $\frac{1}{4}$ sec. cor. of secs. 12 and 13, T. 3 S., R. 13 E., G. & S. R. M. bears S. $37^{\circ} 14'$ E., 1,159.80 ft. dist., an iron post, 1 in. diam., with brass cap 14 ins. above ground, firmly set, mkd. and witnessed as described in the official records.

No local bearing objects or bearing trees available.

Mineral Survey No. 4404

Chains	
	Thence N. 89° 04' W.
300.0	Lode line; discovery point bears N. 0° 48' 30" E., 100 ft. dist.
528.13	Intersect line 1-6 Sur. No. 2572a Sleeper lode, at a point from which cor. No. 6 bears N. 29° 08' E., 1,016.38 ft. dist.
591.95	Cor. No. 2, identical with cor. No. 3 of Diabase No. 4 lode of this survey.
	Set an iron pipe, 3 ft. long, 1½ ins. diam., 18 ins. in the ground, with brass cap mkd. D1-2-D4-3-4404; from which
	Cor. No. 6, Sur. No. 2572a, Sleeper lode, bears N. 32° 12' 30" E., 1,048.06 ft. dist.
	No local bearing objects or bearing trees available.
	Thence N. 0° 31' E.
867.45	Intersect line 2-3 Sur. No. 2465, Queen Lil lode, at a point from which cor. No. 3 bears N. 83° 18' E., 485.69 ft. dist.
1,132.72	Intersect line 4-5 Sur. No. 2572a, Sleeper lode, at a point from which cor. No. 5 bears N. 28° 42' E., 47.01 ft. dist.
1,460.12	Intersect line 4-1 Sur. No. 2465, Queen Lil lode, at a point from which cor. No. 4 bears N. 83° 07' 30" E., 298.53 ft. dist.
1,500.04	Cor. No. 3.
	Set an iron pipe, 3 ft. long, 1½ ins. diam., 18 ins. in the ground, with brass cap mkd. D-1-3-4404; from which
	Cor. No. 5, Sur. No. 2572a, Sleeper lode, bears S. 3° 23' E., 326.64 ft. dist.
	Cor. No. 3 Sur. No. 2465, Queen Lil lode, bears S. 39° 36' 50" E., 747.55 ft. dist.
	Cor. No. 4 Sur. No. 2465, Queen Lil lode, bears S. 89° 11' 20" E., 296.06 ft. dist.
	No local bearing objects or bearing trees available.
	Thence S. 89° 04' E.
291.42	Intersect line 4-1 Sur. No. 2465, Queen Lil lode, at a point from which cor. No. 4 bears N. 83° 07' 30" E., 4.68 ft. dist.
296.27	Intersect line 3-4 Sur. No. 2465, Queen Lil lode, at a point from which cor. No. 3 bears S. 17° 32' E., 598.87 ft. dist.
299.52	Lode line; discovery point bears S. 0° 48' 30" W., 1,400 ft. dist.
599.52	Cor. No. 4, identical with cor. No. 3 of Diabase No. 2 lode of this survey.
	Set an iron pipe, 3 ft. long, 1½ ins. diam., 18 ins. in the ground with brass cap mkd. D1-4-D2-3-4404.
	No local bearing objects or bearing trees available.

Mineral Survey No. 4404

Chains	
	Thence S. 0° 48' 30" W.
1,500.0	Cor. No. 1, and place of beginning.
	DIABASE NO. 2 LODE
	Beginning at cor. No. 1 of the diabase No. 2 lode, identical with cor. No. 4 of the Diabase No. 5 lode of this survey.
	Set an iron pipe, 3 ft. long, 1½ ins. diam., 18 ins. in the ground, with brass cap mkd. D2-1-D5-4-4404; from which
	The ½ sec. cor. of secs. 12 and 13 bears S. 6° 21' 30" E., 919.30 ft. dist, previously described.
	No local bearing objects or bearing trees available.
	Thence N. 89° 04' W.
300.0	Lode line; discovery point bears N. 0° 48' 30" E., 100 ft. dist.
600.0	Cor. No. 2, identical with cor. No. 3 of Diabase No. 5 lode, cor. No. 4 of Diabase No. 4 lode, and cor. No. 1 of Diabase No. 1 lode of this survey.
	Thence N. 0° 48' 30" E.
1,500.0	Cor. No. 3, identical with cor. No. 4 of Diabase No. 1 lode of this survey.
	Thence S. 89° 04' E.
300.0	Lode line; discovery point bears S. 0° 48' 30" W., 1,400 ft. dist.
600.0	Cor. No. 4.
	Set an iron pipe, 3 ft. long, 1½ ins. diam., 18 ins. in the ground, with brass cap mkd. D2-4-4404.
	No local bearing objects or bearing trees available.
	Thence S. 0° 48' 30" W.
1,500.0	Cor. No. 1, and place of beginning.
	DIABASE NO. 4 LODE
	Beginning at cor. No. 1 of Diabase No. 4 lode, identical with cor. No. 2 of Diabase No. 5 lode, cor. No. 4 of Diabase No. 8 lode, Cor. No. 1 of Diabase No. 7 lode of this survey.
	Set an iron pipe, 3 ft. long, 1½ ins. diam., 18 ins. in the ground, with brass cap mkd. D4-1-D5-2-D8-4-D7-1-4404; from which
	The ½ sec. cor. of secs. 12 and 13 bears N. 51° 22' 20" E., 916.77 ft. dist, previously described.
	No local bearing objects or bearing trees available.
	Thence N. 89° 04' W.

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Mineral Survey No. 4404

Chains	Feet	
	80.0	Road, bears N. 30° W. and S. 30° E.
	300.0	Lode line; discovery point bears N. 0° 33' 10" E., 1,395.77 ft. dist.
	347.0	Wash, course S. 20° W.
	600.0	Cor. No. 2, identical with cor. No. 4 of Diabase No. 7 lode of this survey. Set an iron pipe, 3 ft. long, 1½ ins. diam., 18 ins. in the ground, with brass cap mkd. D4-2-D7-4-4404; from which Cor. No. 4 Sur. No. 2572a Copper Carbonate lode bears N. 29° 21' 40" E., 637.17 ft. dist. No local bearing objects or bearing trees available. Thence N. 0° 51' 40" E.
	178.71	Intersect line 4-5 Sur. No. 2572a, Copper Carbonate lode, at a point from which cor. No. 4 bears N. 39° 26' E., 487.63 ft. dist.
	320.0	Road, bears N. 64° W. and S. 64° E.
	355.0	Road, bears N. 56° E. and S. 56° W.
	420.0	Road, bears N. 20° E. and S. 20° W.
	799.54	Intersect line 3-4 Sur. No. 2572a Copper Carbonate lode, at a point from which Cor. No. 4 bears S. 50° 54' E., 387.09 ft. dist.
	985.0	Wash, course S. 56° W.
	1,377.0	Intersect line 6-1 Sur. No. 2572a, Sleeper lode, at a point from which cor. No. 6 bears N. 29° 08' E., 1,151.11 ft. dist.
	1,495.74	Cor. No. 3, identical with cor. No. 2 of Diabase No. 1 lode of this survey. Thence S. 89° 04' E.
	63.82	Intersect line 6-1 Sur. No. 2572a, Sleeper lode, at a point from which cor. No. 6 bears N. 29° 08' E., 1,016.38 ft. dist.
	291.95	Lode line; discovery point bears S. 0° 33' 10" W., 100 ft. dist.
	591.95	Cor. No. 4, identical with cor. No. 1 of Diabase No. 1 lode, cor. No. 2 of Diabase No. 2 lode, and cor. No. 3 of Diabase No. 5 lode of this survey. Thence S. 0° 33' 10" W.
	400.0	Wash, course S. 85° W.
	530.0	Wash, course N. 87° W.
	996.0	Road, bears N. 88° E. and S. 88° W.
	1,174.0	Wash, course N. 89° W.
	1,495.77	Cor. No. 1, and place of beginning.

Mineral Survey No. 4404

Chains Feet	
	DIABASE NO. 5 LODE
	Beginning at cor. No. 1 Diabase No. 5 lode; identical with cor. No. 1 Diabase No. 8 lode of this survey.
	Set an iron pipe, 3 ft. long, 1½ ins. diam., 18 ins. in the ground, with brass cap mkd. D5-1-D8-1-4404; from which
	The ¼ sec. cor. of secs. 12 and 13 bears N. 11° 17' 50" E., 593.57 ft. dist., previously described.
	No local bearing objects or bearing trees available.
	Thence N. 89° 04' W.
300.0	Lode line; discovery point bears N. 0° 33' 10" E., 1,395.77 ft. dist.
600.0	Cor. No. 2, identical with cor. No. 4 of Diabase No. 8 lode, cor. No. 1 Diabase No. 7 lode, cor. No. 1 Diabase No. 4 lode of this survey.
	Thence N. 0° 33' 10" E.
322.0	Wash.
500.0	Road.
966.0	Wash.
1,096.0	Wash.
1,495.77	Cor. No. 3, identical with cor. No. 4 Diabase No. 4 lode, cor. No. 1 Diabase No. 1 lode, cor. No. 2 Diabase No. 2 lode of this survey.
	Thence S. 89° 04' E.
300.0	Lode line; discovery point bears S. 0° 33' 10" W., 100 ft. dist.
600.0	Cor. No. 4, identical with cor. No. 1 Diabase No. 2 lode of this survey.
	Thence S. 0° 33' 10" W.
520.0	Wash, course S. 57° W.
815.0	Wash, course S. 61° W.
860.0	Road, bears S. 71° W. and N. 71° E.
1,495.77	Cor. No. 1, and place of beginning.

Chains Feet	
	DIABASE NO. 7 LODE
	Beginning at cor. No. 1 Diabase No. 7 lode; identical with cor. No. 1 Diabase No. 4 lode, cor. No. 2 Diabase No. 5 lode, cor. No. 4 Diabase No. 8 lode of this survey.
	Thence S. 1° 33' 20" W.
98.0	Road, bears N. 30° W. and S. 30° E.
412.0	Wash, course N. 89° W.
1,135.0	Wash, course W.

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Mineral Survey No. 4404

Chains Feet	
1,415.41	Intersect line 2-3 Sur. No. 2569a Black Hussar lode at a point from which cor. No. 2 bears N. 88° 20' W., 129.55 ft. dist.
1,477.85	Cor. No. 2, identical with cor. No. 3 Diabase No. 8 lode, cor. No. 4 Diabase No. 10 lode of this survey. Set an iron pipe, 3 ft. long, 1½ ins. diam., 18 ins. in the ground, with brass cap mkd. D7-2-D8-3-D10-4-4404; from which Cor. No. 2 Sur. No. 2569a, Black Hussar lode, bears N. 62° 37' 20" W. 143.92 ft. dist. No local bearing objects or bearing trees available. Thence N. 89° 04' W.
127.65	Intersect line 1-2 Sur. No. 2569a, Black Hussar lode, at a point from which cor. No. 2 bears N. 0° 09' W., 64.10 ft. dist.
300.0	Lode line; discovery point bears N. 1° 33' 20" E., 100 ft. dist.
593.81	Cor. No. 3, identical with cor. No. 3 Diabase No. 10 lode of this survey. Set an iron pipe, 3 ft. long, 1½ ins. diam., 18 ins. in the ground, with brass cap mkd. D7-3-D10-3-4404. Thence N. 1° 19' E.
480.0	Wash, course S. 70° W.
690.0	Wash, course S. 45° W.
1,130.0	Wash, course S. 78° W.
1,477.78	Cor. No. 4, identical with cor. No. 2, Diabase No. 4, of this survey. Thence S. 89° 04' E.
253.0	Wash.
300.0	Lode line; discovery point bears S. 1° 33' 20" W., 1,377.85 ft. dist.
520.0	Road.
600.0	Cor. No. 1, and place of beginning.

DIABASE NO. 8 LODE

	Beginning at cor. No. 1, Diabase No. 8 lode, identical with cor. No. 1 Diabase No. 5 lode of this survey. Thence S. 1° 33' 20" W.
360.0	Road, bears N. 61° W. and S. 61° E.
485.0	Wash, course S. 77° W.
895.0	Wash, course S. 41° W.

Mineral Survey No. 4404

Chains Feet	
1,477.85	<p>Cor. No. 2.</p> <p>Set an iron pipe, 3 ft. long, 1½ ins. diam., 18 ins. in the ground, with brass cap mkd. D8-2-4404; from which</p> <p>Cor. No. 3 Sur. No. 2569a, Black Hussar lode, bears N. 65° 25' 50" W., 140.71 ft. dist.</p> <p>No local bearing objects or bearing trees available.</p> <p>Thence N. 89° 04' W.</p>
128.05	Intersect line 3-4 Sur. No. 2569a, Black Hussar lode, at a point from which cor. No. 3 bears N. 0° 04' E., 56.41 ft. dist.
300.0	Lode line; discovery point bears N. 1° 33' 20" E., 100 ft. dist.
600.0	Cor. No. 3, identical with cor. No. 4 Diabase No. 10 lode, cor. No. 2 Diabase No. 7 lode of this survey.
	Thence N. 1° 33' 20" E.
62.44	Intersect line 2-3 Sur. No. 2569a, Black Hussar lode, at a point from which cor. No. 2 bears N. 88° 20' W., 129.55 ft. dist.
343.0	Wash.
1,066.0	Wash.
1,380.0	Road.
1,477.85	<p>Cor. No. 4, identical with cor. No. 1, Diabase No. 7 lode, cor. No. 1 Diabase No. 4 lode, cor. No. 2 Diabase No. 5 lode.</p> <p>Thence S. 89° 04' E.</p>
300.0	Lode line; discovery point bears S. 1° 33' 20" W., 1,377.85 ft. dist.
600.0	Cor. No. 1, and place of beginning.
	DIABASE NO. 10 LODE
	<p>Beginning at cor. No. 1 of Diabase No. 10 lode, identical with cor. No. 3 of Diabase No. 14 lode and cor. No. 4 of Diabase No. 13 lode of this survey.</p> <p>Set an iron pipe, 3 ft. long, 1½ ins. diam., 18 ins. in the ground, with brass cap mkd. D10-1-D14-3-D13-4-4404; from which</p> <p>The ½ sec. cor. of secs. 13 and 24, T. 3 S., R. 13 E., G. & S. R. M. bears S. 24° 54' E., 1,900.75 ft. dist., a 1 in. iron pipe with a brass cap, 12 ins. above ground, firmly set, mkd. and witnessed as described in the official record.</p> <p>Cor. No. 1 Sur. No. 2569a, Black Hussar lode, bears N. 31° 15' 10" W., 134.29 ft. dist.</p> <p>No local bearing objects or bearing trees available.</p> <p>Thence N. 89° 04' W.</p>

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Mineral Survey No. 4404

Chains Feet	
300.0	Lode line; discovery point bears N. 2° 05' E., 1,398.61 ft. dist.
325.0	Wash, course S: 48° W.
556.56	Cor. No. 2, identical with cor. No. 3 of Diabase No. 13 lode of this survey. Set an iron pipe, 3 ft. long, 1½ ins. diam., 18 ins. in the ground with brass cap mkd. D10-2-D13-3-4404. No local bearing objects or bearing trees available. Thence N. 0° 39' 30" E.
265.0	Road, bears N. 56° E. and S. 56° W.
465.0	Wash, course S. 46° W.
960.0	Road, bears N. 71° W. and S. 71° E.
1,045.09	Intersect line 4-1 Sur. No. 2466, Copper Contact lode, at a point from which cor. No. 4 bears N. 55° 21' E., 158.68 ft. dist.
1,319.63	Intersect line 3-4 Sur. No. 2466, Copper Contact lode, at a point from which cor. No. 4 bears S. 34° 39' E., 224.04 ft. dist.
1,498.34	Cor. No. 3, identical with cor. No. 3 of Diabase No. 7 lode of this survey; from which Cor. No. 4 Sur. No. 2466, Copper Contact lode, bears S. 19° 02' 50" E., 384.06 ft. dist. Thence S. 89° 04' E.
293.81	Lode line; discovery point bears S. 2° 05' W., 100 ft. dist.
466.16	Intersect line 1-2 Sur. No. 2569a, Black Hussar lode, at a point from which cor. No. 2 bears N. 0° 09' W., 64.10 ft. dist.
593.81	Cor. No. 4, identical with cor. No. 2 of Diabase No. 7 lode and cor. No. 3 of Diabase No. 8 lode of this survey. Thence S. 2° 05' W.
440.0	Road, bears N. 84° W. and S. 84° E.
690.0	Road, bears N. 83° W. and S. 83° E.
750.0	Road, bears N. 31° E. and S. 31° W.
1,270.0	Wash, course S: 32° W.
1,383.88	Intersect line 4-1 Sur. No. 2569a, Black Hussar lode, at a point from which cor. No. 1 bears N. 89° 53' W., 73.84 ft. dist.
1,498.61	Cor. No. 1, and place of beginning.

DIABASE NO. 13 LODE

Beginning at cor. No. 1 of Diabase No. 13 lode, identical with cor. No. 2 of Diabase No. 14 lode of this survey.

Mineral Survey No. 4404

Chains Feet	
	Set an iron pipe, 3 ft. long, 1½ ins. diam., 18 ins. in the ground, with brass cap mkd. D13-1-D14-2-4404; from which
	The ¼ sec. cor. of secs. 13 and 24 bears S. 67° 01' E., 845.42 ft. dist., previously described.
	No local bearing objects or bearing trees available.
	Thence N. 89° 04' W.
300.0	Lode line, discovery point bears N. 0° 54' W., 100 ft. dist.
370.0	Road, bears N. 7° W. and S. 7° E.
555.29	Intersect line 2-3 Sur. No. 1244, Vermont lode, at a point from which cor. No. 3 bears S. 10° 22' E., 454.19 ft. dist.
600.0	Cor. No. 2.
	Set an iron pipe, 3 ft. long, 1½ ins. diam., 18 ins. in the ground with a brass cap mkd. D13-2-4404.
	No local bearing objects or bearing trees available.
	Thence N. 0° 53' E.
224.73	Intersect line 2-3 Sur. No. 1244, Vermont lode, at a point from which cor. No. 3 bears S. 10° 22' E., 683.37 ft. dist.
250.0	Road, bears N. 43° W. and S. 43° E.
450.0	Road, bears N. 27° W. and S. 27° E.
520.0	Road, bears N. 40° W. and S. 40° E.
600.0	Road, bears N. 31° W. and S. 31° E.
850.0	Road, bears N. 40° E. and S. 40° W.
990.0	Wash, course S. 88° W.
1,150.0	Wash, course S. 42° W.
1,300.0	Road, bears N. 56° E. and S. 56° W.
1,393.40	Cor. No. 3, identical with cor. No. 2 of Diabase No. 10 lode of this survey.
	Thence S. 89° 04' E.
230.0	Wash.
256.56	Lode line, discovery point bears S. 0° 54' E., 1,294.13 ft. dist.
556.56	Cor. No. 4, identical with cor. No. 1 of Diabase No. 10 lode and cor. No. 3 of Diabase No. 14 lode of this survey.
	Thence S. 0° 54' E.
790.0	Road, bears N. 63° E. and S. 63° W.

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Mineral Survey No. 4404

Chains Feet 900.0	Road, bears N. 43° W. and S. 43° E.
1,394.13	Cor. No. 1, and place of beginning.
	DIABASE NO. 14 LODE
	Beginning at cor. No. 1 of Diabase No. 14 lode, identical with cor. No. 1 of Diabase No. 15 lode of this survey.
	Set an iron pipe, 3 ft. long, 1½ ins. diam., 18 ins. in the ground, with brass cap mkd. D14-1-D15-1-4404; from which
	The ¼ sec. cor. of secs. 13 and 24 bears S. 29° 07' E., 366.64 ft. dist., previously described.
	No local bearing objects or bearing trees available.
	Thence N. 89° 04' W.
225.0	Road, bears N. 58° W. and S. 58° E.
300.0	Lode line; discovery point bears N. 0° 54' W., 113.0 ft. dist.
550.0	Road, bears N. 35° E. and S. 35° W.
600.0	Cor. No. 2, identical with cor. No. 1 of Diabase No. 13 lode of this survey.
	Thence N. 0° 54' W.
495.0	Road, bears N. 43° W. and S. 43° E.
605.0	Road, bears N. 63° E. and S. 63° W.
1,394.13	Cor. No. 3, identical with cor. No. 1 of Diabase No. 10 lode and cor. No. 4 of Diabase No. 13 lode of this survey.
	Thence S. 89° 04' E.
300.0	Lode line; discovery point bears S. 0° 54' E., 1,281.13 ft. dist.
600.0	Cor. No. 4.
	Set an iron pipe, 3 ft. long, 1½ ins. diam., 18 ins. in the ground, with brass cap mkd. D14-4-4404; from which.
	Cor. No. 1 Sur. No. 3958, Genevieve lode, bears S. 11° 13' 50" W., 709.06 ft. dist.
	No local bearing objects or bearing trees available.
	Thence S. 0° 54' E.
339.06	Intersect line 1-2 Sur. No. 3958, Genevieve lode, at a point from which cor. No. 1 bears S. 21° 55' W., 384.20 ft. dist.
370.06	Road, bears N. 58° E. and S. 58° W.
683.52	Intersect line 4-1 Sur. No. 3958, Genevieve lode, at a point from which cor. No. 1 bears S. 85° 23' W., 149.30 ft. dist.
1,394.13	Cor. No.

Mineral Survey No. 4404

Chains Feet		
1,394.13	Cor. No. 1, and place of beginning.	0.000
	Diabase No. 15 Lode	0.000
	Beginning at Cor. No. 1 of Diabase No. 15 lode, identical with cor. No. 1 of Diabase No. 14 lode of this survey.	0.000
	Thence S. 0° 48' W.	
130.0	Road, bears N. 48° W. and S. 48° E.	
300.0	Lode line; discovery point bears N. 89° 04' W., 115 ft. dist.	
600.0	Cor. No. 2.	
	Set an iron pipe, 3 ft. long, 1½ ins. diam., 18 ins. in the ground, with brass cap mkd. D15-2-4404.	
	No local bearing objects or bearing trees available.	
	Thence N. 87° 47' W.	
843.93	Intersect line 3-4 Sur. No. 2881A, Copper King lode, at a point from which cor. No. 4 bears N. 1° 59' E., 184.57 ft. dist.	
1,500.45	Cor. No. 3.	
	Set an iron pipe, 3 ft. long, 1½ ins. diam., 18 ins. in the ground with brass cap mkd. D15-3-4404; from which	
	Cor. No. 3 Sur. No. 1244, Vermont lode, bears N. 75° 17' 10" E., 449.04 ft. dist.	
	Cor. No. 4 Sur. No. 2881A, Copper King lode, bears N. 76° 29' 50" E., 681.25 ft. dist.	
	No local bearing objects or bearing trees available.	
	Thence N. 0° 48' E.	
128.39	Intersect line 4-1 Sur. No. 2881A, Copper King lode, identical with line 3-4 Sur. No. 1244, Vermont lode, at a point from which cor. No. 4 bears N. 78° 50' E., 674.80 ft. dist. and cor. No. 3 bears N. 78° 50' E., 442.29 ft. dist.	
266.50	Lode line; discovery point bears S. 89° 04' E., 1,385 ft. dist.	
566.50	Cor. No. 4.	
	Set an iron pipe, 3 ft. long, 1½ ins. diam., 18 ins. in the ground, with brass cap mkd. D15-4-4404.	
	No local bearing objects or bearing trees available.	
	Thence S. 89° 04' E.	
300.0	Cor. No. 2 of Diabase No. 13 of this survey.	
344.71	Intersect line 2-3 Sur. No. 1244, Vermont lode, at a point from which cor. No. 3 bears S. 10° 22' E., 454.19 ft. dist.	
525.0	Road, bears N. 7° W. and S. 7° E.	

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Chains Feet		
900.0	Cor. No. 1 of Diabase No. 13 and cor. No. 2 of Diabase No. 14 of this survey.	
940.0	Road, bears N. 35° E. and S. 35° W.	
1,370.0	Road, bears N. 58° W. and S. 58° E.	
1,500.0	Cor. No. 1, and place of beginning.	
SURVEY NO. 4404		
AREAS		
		Acres
	Total area, Diabase No. 1 lode	20.514
	Area in conflict with	
	Sur. No. 2572a, Sleeper lode	8.138
	Sur. No. 2465, Queen Lil lode	5.297
	Sur. No. 2465, Queen Lil lode, exclusive of its conflict with Sur. No. 2572a, Sleeper lode	3.548
	Total area, Diabase No. 2 lode	20.661
	Total area, Diabase No. 4 lode	20.465
	Area in conflict with	
	Sur. No. 2572a, Sleeper lode	.087
	Sur. No. 2572a, Copper Carbonate lode	2.167
	Total area, Diabase No. 5 lode	20.602
	Total area, Diabase No. 7 lode	20.250
	Area in conflict with	
	Sur. No. 2569a, Black Hussar lode	.187
	Total area, Diabase No. 8 lode	20.355
	Area in conflict with	
	Sur. No. 2569a, Black Hussar lode	.643
	Total area, Diabase No. 10 lode	19.784
	Area in conflict with	
	Sur. No. 2569a, Black Hussar lode	3.201
	Sur. No. 2466, Copper Contact lode	0.408
	Total area, Diabase No. 13 lode	18,498
	Area in conflict with	
	Sur. No. 1244, Vermont lode	.115
	Total area, Diabase No. 14 lode	19,193
	Area in conflict with	
	Sur. No. 3958, Genevieve lode	.589
	Total area, Diabase No. 15 lode	20.082
	Area in conflict with	
	Sur. No. 1244, Vermont lode	4.435
	Sur. No. 2881A, Copper King lode	1.606
LOCATION		
	This survey is located in lots 7 and 10, sec. 12; lots 1, 6, and 7, sec. 13; and lot 1, sec. 24, T. 3 S., R. 13 E.	

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Chains	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 cut of the Diabase No. 1 lode, the face of which being the discovery point, is on the lode line 100 ft. from a point on line 1-2, 300 ft. from cor. No. 1; 15 ft. wide, 5 ft. face, runs S. 89° W., 50 ft. and N. 89° E. 50 ft. Value, \$740
No. 1	The discovery cut of the Diabase No. 2 lode, the face of which being the discovery point, is on the lode line 100 ft. from a point on line 1-2, 300 ft. from cor. No. 1; 6 ft. wide, 10 ft. face, runs west 15 ft. Value, \$225
No. 1	The discovery shaft of the Diabase No. 4 lode, the center of which being the discovery point, is on the lode line 100 ft. from a point on line 3-4, 291.95 ft. from cor. No. 3; 7 x 8 ft., 5 ft. deep. Value, \$140.
No. 1	The discovery cut of the Diabase No. 5 lode, the face of which being the discovery point, is on the lode line 100 ft. from a point on line 3-4, 300 ft. from cor. No. 3; 25 ft. wide, 9 ft. face, runs S. 42° W., 60 ft. and N. 42° E., 60 ft. Value, \$250
No. 1	The discovery shaft of the Diabase No. 7 lode, the center of which being the discovery point, is on the lode line 100 ft. from a point on line 2-3, 300 ft. from cor. No. 2; 9 x 7 ft., 5 ft. deep. Value, \$157.50
No. 1	The discovery shaft of the Diabase No. 8 lode, the center of which being the discovery point, is on the lode line 100 ft. from a point on line 2-3, 300 ft. from cor. No. 2; 6 x 7 ft., 5 ft. deep. Value, \$105.
No. 1	The discovery shaft of the Diabase No. 10 lode, the center of which being the discovery point, is on the lode line 100 ft. from a point on line 3-4, 293.81 ft. from cor. No. 3; 10 x 7 ft., 4 ft. deep. Value, \$140
No. 1	The discovery shaft of the Diabase No. 13 lode, the center of which being the discovery point, is on the lode line 100 ft. from a point on line 1-2, 300 ft. from cor. No. 1; 4 x 9 ft., 6 ft. deep. Value, \$108
No. 1	The discovery shaft of the Diabase No. 14 lode, the center of which being the discovery point, is on the lode line 113 ft. from a point on line 1-2, 300 ft. from cor. No. 1; 8 x 6 ft., 6 ft. deep. Value, \$144
No. 1	The discovery shaft of the Diabase No. 15 lode, the center of which being the discovery point, is on the lode line 115 ft. from a point on line 1-2, 300 ft. from cor. No. 1; 6 x 8 ft., 5 ft. deep. Value, \$120
	An interest in common improvements described as follows: A rotary drill hole, the center of which bears N. 32° 29' E., 271.28 ft. from cor. No. 2 Diabase No. 4 lode, 202 ft. deep.

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A diamond drill hole, the center of which bears N. 30° 12' E., 293.27 ft. from cor. No. 2 Diabase No. 4 lode, 485 ft. deep.

A diamond drill hole, the center of which bears N. 6° 31' 20" E., 881 ft. from cor. No. 2 Diabase No. 4 lode, 178 ft. deep.

A rotary drill hole, the center of which bears S. 29° 54' E., 215.90 ft. from cor. No. 4 Diabase No. 7 lode, 80 ft. deep.

Value of diamond and rotary drill holes, \$4,927

Value of one-ninth interest, ~~\$549.33~~ 547.44.

These improvements are for the development of Diabase No. 1 lode, Diabase No. 2 lode, Diabase No. 4 lode, Diabase No. 5 lode, Diabase No. 7 lode, and Diabase No. 8 lode of this survey and Sur. No. 2572a Copper Carbonate and Sleeper lodes, Sur. No. 2465 Queen Lil lode, which are all the contiguous lode claims owned in common within the range of benefit of said drill holes.

Five hundred dollars or over has been expended in these improvements 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-ninth 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.

A diamond drill hole, the center of which bears S. 23° 51' E., 579.67 ft. from cor. No. 3 Diabase No. 10 lode, 134 ft. deep.

A diamond drill hole, the center of which bears S. 9° 07' E., 514.81 ft. from cor. No. 3 Diabase No. 13 lode, 465 ft. deep.

A diamond drill hole, the center of which bears N. 54° 18' E., 169 ft. from cor. No. 2 Diabase No. 13 lode, 476 ft. deep.

Value of diamond and rotary drill holes, \$5,786

Value of one-ninth interest, \$642.89

These improvements are for the development of Diabase No. 10 lode, Diabase No. 13 lode, Diabase No. 14 lode, and Diabase No. 15 lode of this survey and Sur. No. 2466 Copper Contact lode, Sur. No. 2569a Black Hussar lode, Sur. No. 3958 Genevieve lode, Sur. No. 1244 Vermont lode, Sur. No. 2615A Copper King lode, which are all the contiguous lode claims owned in common within the range of benefit of said drill holes.

Five hundred dollars or over has been expended in these improvements 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-ninth 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.

The original plan for development and extraction of ore is to open pit mine.

The portion of the known ore body which is presently being developed is widely disseminated low-grade copper-bearing ore which lies below the surface of the ground and extends downward to a considerable depth; the lateral boundaries of the ore body have not been defined and it is not necessary to prove its lateral extent by further diamond drilling, as an ore body of sufficient size and value has already been proved to warrant mining development leading to extraction of the ore.

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Chains

OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

Sur. No. 2465 Queen Lil lode: Cor. No. 1 destroyed, reset by owners with a 4 x 4 ins. post, 3 ft. above ground, firmly set and properly mkd. Cors. Nos. 3 and 4 are rocks firmly set and properly mkd. Cor. No. 4 Sur. No. 2572a Sleeper lode is on line 2-3, Queen Lil lode which was destroyed and reset by owners with 1 in. steel pin 12 ins. above ground, no markings. Line 4-1 was found to be S. 83° 07' 30" W., 1,476.08 ft. instead of S. 83° 04' W., 1,500 ft. as approved; line 3-4 was found to be N. 17° 32' W., 599.54 ft. instead of N. 17° 40' W., 600 ft. as approved; the portion of line 2-3 Sur. No. 2465, Queen Lil lode between cor. No. 3 of said lode and cor. No. 4 of Sur. No. 2572A, Sleeper lode on said line, was found to be S. 83° 18' W., 639.39 ft. instead of S. 83° 04' W., 640.81 ft. as approved.

Sur. No. 2572a Sleeper lode: Cor. No. 1 destroyed, reset by owners with a 4 x 4 ins. post, 3 ft. above ground, no markings. Cor. No. 4 destroyed, reset by owners with 1 in. iron pin 12 ins. above ground, no markings. Cor. No. 5 destroyed, reset by owners with 1 in. iron pin 12 ins. above ground, no markings. Cor. No. 6, rock, firmly set and properly mkd. Line 1-6 was found to be N. 29° 08' E., 1,484.23 ft. instead of N. 28° 43' E., 1,480.75 ft. as approved; line 6-5 was found to be N. 61° 21' W., 599.07 ft. instead of N. 61° 38' W., 593 ft. as approved; line 5-4 was found to be S. 28° 42' W., 369.86 ft. instead of S. 28° 22' W., 370.30 ft. as approved.

Sur. No. 2572a Copper Carbonate lode: Cor. No. 2, 4 x 4 ins. post, 2 ft. above ground and properly mkd. Cor. No. 3 and cor. No. 4 are destroyed, bearing rocks are in place. Cor. No. 5, a rock firmly set and properly mkd. Line 2-3 was found to be N. 39° 26' E., 1,472.29 ft. instead of N. 39° 23' E., 1,470 ft. as approved; line 3-4 was found to be S. 50° 54' E., 597 ft. instead of S. 51° 06' E., 600 ft. as approved; line 4-5 is correct as approved.

Sur. No. 2466 Copper Contact lode: Cors. Nos. 1, 3, and 4 are rocks, firmly set and properly mkd. Bearing on line 1-4 was found to be S. 55° 21' W., instead of S. 55° 27' W. as approved; distance correct as approved. Bearing on line 4-3 was found to be N. 34° 39' W., instead of N. 34° 33' W. as approved; distance correct as approved.

Sur. No. 2569a Black Hussar lode: Cors. Nos. 2, 3, and 4 are 4 x 4 ins. posts, firmly set and properly mkd.; cor. No. 1 destroyed. Line 1-2 was found to be N. 0° 09' W., 1,449.01 ft., instead of N. 0° 38' E., 1,450.6 ft. as approved; bearing on line 2-3 was found to be S. 88° 20' E., instead of S. 89° 45' E. as approved; distance correct as approved. Line 3-4 was found to be S. 0° 04' W., 1,432.77 ft., instead of S. 0° 38' W., 1,450.6 ft. as approved; line 4-1 was found to be N. 89° 53' W., 594.41 ft., instead of N. 89° 45' W., 600 ft., as approved.

Sur. No. 3958, Genevieve lode: Cors. Nos. 1, 2, and 4 are 1 in. iron pipes with brass caps, firmly set and properly mkd. Line 1-2 was found to be correct as approved; line 1-4 was found to be correct as approved.

Sur. No. 1244 Vermont lode: Cors. Nos. 2 and 3 are rocks, firmly set and properly mkd. Line 3-2 was found to be N. 10° 22' W., 1,485.39 ft., instead of N. 11° 10' W., 1,500 ft. as approved.

Sur. No. 2881A Copper King lode: Cors. Nos. 1 and 3 are 4 x 4 in. posts, firmly set and properly mkd. Cor. No. 4 was destroyed, reset by owners with a 1 in. iron pin, with a 1 x 2 in. guard stake

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properly mkd. Line 1-4 correct as approved; line 4-3 correct as approved. Cor. No. 4 Sur. No. 2881A Copper King lode and Cor. No. 3 Sur. No. 1244 Vermont lode, the bearing was found correct as approved; distance was found to be 232.51 ft., instead of 233.24 ft. as approved.

FIELD ASSISTANTS

Name	Capacity
Milton Pearce	Transitman
Mike Erickson	Chainman

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

June 18, 19 57

I, OSCAR T. SMITH

Mineral Surveyor, hereby certify upon honor that in pursuance of an order received from the Office
Cadastral Engineer, at Phoenix, Arizona

dated June 26, 1956, I have faithfully and correctly executed the survey of

the mining claim of Kennecott Copper Corporation,
Diabase No. 1, Diabase No. 2, Diabase No. 4, Diabase No. 5, Diabase No. 7, Diabase No. 8,
known as the Diabase No. 10, Diabase No. 13, Diabase No. 14, and Diabase No. 15 lodes
(Lode, placer, or mill site)

situate in Mineral Creek Mining District, Pinal County, Secs. 12, 13, and 24

T. 3 S., R. 13 E., G. & S. R. Meridian, Arizona (State), and

designated as Survey No. 4404, which is represented in the foregoing field notes as having been
executed by me and under my direction, and that said survey has been made in strict conformity with said order,
the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner
described in the foregoing field notes, and I do further certify that the labor expended and improvements made

upon or for the benefit of the Lode location(s) embraced in the said mining claim by
(Lode or placer)

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

Globe, Arizona (Place)

Oscar T. Smith
(Mineral Surveyor)

CERTIFICATE OF APPROVAL

Survey Office (Office)

Phoenix, Arizona August 7, 19 58
(Place) (Date)

The foregoing field notes of mineral survey No. 4404, in Secs. 12, 13 and 24

T. 3 S., R. 13 E., G. & S. R. Meridian,

Arizona, executed by Oscar T. Smith, Mineral Surveyor,
(State)

under order dated June 26, 1956 (Amended), having been critically examined and the necessary
corrections made prior to their certification by the surveyor, the field notes and the survey therein described
are hereby approved.

Lester S. Mann
Lester S. Mann
Office Cadastral Engineer
(Title)

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of field notes of the above described mineral survey No. is a true copy of the original field notes.

