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Form 4-683
(January 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Mineral Survey number

4644

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 & McClennen
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
Wedge No. 1	10/27/65	

Mining district Mineral Creek			County Pinal	
Section 11	Township 3 South	Range 13 East	Meridian Gila & Salt River	Survey under order dated Feb. 18, 1966
Survey commenced March 30, 1966		Survey completed April 30, 1966	Name of Mineral Surveyor Travis L. Gant	

UNITED STATES OF AMERICA
 DEPARTMENT OF THE INTERIOR
 BUREAU OF LAND MANAGEMENT
 WASHINGTON, D. C. 20250

LAND ACQUISITION STATEMENT
 OF WORKS
 STATE OF ARIZONA
 COUNTY OF COCHISE
 TOWN OF SIERRA VISTA
 SECTION 36, T1S, R1E, S1

PROJECT NO. 1003705
 DATE OF ACQUISITION 1960

Section	Acquired	Released	Released
36	1960	1960	1960
36	1960	1960	1960

SURVEY NO. 4644

FEET

This survey was made with a W. & E. Gurley transit No. 57289, with horizontal limb $6\frac{1}{4}$ 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 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:

March 30, 1966, at Cor. No. 4 of the Wedge No. 1 lode in latitude $33^{\circ} 10' 43.6''$ N. and longitude $110^{\circ} 59' 28.2''$ 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 400 feet southward clockwise to the sun.

Mean time of observation,
105th meridian, standard time = 4:12 p.m.

Declination of sun at mean
time of observation = $3^{\circ} 52' 48''$ N.

Mean observed vertical angle
to sun's center = $30^{\circ} 28' 10''$

Mean horizontal angle from reference
point to sun's center, turned
clockwise and to the right to
sun's center = $80^{\circ} 29' 23''$

True bearing to reference point = S. $7^{\circ} 22' 45''$ 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 $13^{\circ} 40'$ E.

SURVEY NO. 4644

WEDGE NO. 1 LODE

At Cor. No. 1 of the Wedge No. 1 lode, on line 4-5
Sur. No. 2573A Native Copper lode and on line 1-2
Sur. No. 2614 Wedge lode.

Set an iron post, 2 ft. long, $1\frac{1}{2}$ ins. diam., $1\frac{1}{4}$ ins. in the ground and in a concrete base, with brass cap mkd. W 1-1-4644; from which

FEET	
	<p>The cor. of secs. 11, 12, 13 and 14, T. 3 S., R. 13 E., G.&S.R.M., bears S. 80° 37' 56" E., 2,818.35 ft. dist., an iron post 2 ins. diam., 18 ins. above ground, firmly set, with brass cap marked as described in the official record.</p>
	<p>Cor. No. 5 Sur. No. 2573A Native Copper lode, identical with Cor. No. 1 Sur. No. 2614 Wedge lode, on line 1-2 Sur. No. 1581 Contention lode, bears N. 74° 23' 15" E., 76.58 ft. dist.</p>
	<p>Cor. No. 3 Sur. No. 4561 Fuller lode bears N. 70° 33' E., 60.88 ft. dist.</p>
	<p>Thence S. 74° 23' 15" W.</p>
43	<p>Power line; bears N. 14° W. and S. 14° E.</p>
55	<p>Road; centerline bears N. 13° W. and S. 13° E.</p>
70.00	<p>Lode line; discovery point bears N. 7° 22' 45" W., 335.87 ft. dist.; also intersect Cor. No. 2 Sur. No. 2614 Wedge lode, identical with Cor. No. 1 Sur. No. 2659 Buffalo Mine lode and Cor. No. 1 Sur. No. 3141 AMD Mesa lode, and on line 4-5 Sur. No. 2573A Native Copper lode.</p>
130	<p>Road; centerline bears S. 45° E. and N. 45° W.</p>
140.00	<p>Cor. No. 2, identical with Cor. No. 2 Sur. No. 3141 AMD Mesa lode, on line 4-5 Sur. No. 2573A Native Copper lode and line 1-2 Sur. No. 2659 Buffalo Mine lode.</p> <p>A brass tablet set in a concrete foundation, flush with the surface of the ground, mkd. MESA-2-3141 AMD; I add the following marks on the brass cap: W 1-2-4644.</p>
	<p>Thence N. 7° 22' 45" W.</p>
11	<p>Road; centerline bears S. 45° E. and N. 45° W.</p>
114.59	<p>Intersect line 4-1 Sur. No. 2659 Buffalo Mine lode at a point from which Cor. No. 1, identical with Cor. No. 2 Sur. No. 2614 Wedge lode and Cor. No. 1 Sur. No. 3141 AMD Mesa lode, on line 4-5 Sur. No. 2573A Native Copper lode, bears S. 40° 54' 30" E., 125.44 ft. dist.</p>
246	<p>Power line; bears N. 88° E. and S. 88° W.</p>
269	<p>Road; centerline bears S. 85° W. and N. 85° E.</p>
343.26	<p>Intersect line 3-4 Sur. No. 3141 AMD Mesa lode identical with line 1-2 Sur. No. 2605 Iron King lode, at a point from which Cors. Nos. 4 and 1 respectively bear N. 74° 11' E., 68.04 ft. dist.</p>
400.00	<p>Cor. No. 3</p> <p>Set an iron post 2 ft. long, 1½ ins. diam., 15 ins. in the ground in a concrete base, with brass cap mkd. W 1-3-4644; from which</p>

SURVEY NO. 4644

FEET	
	Cor. No. 1 Sur. No. 2605 Iron King lode, identical with Cor. No. 4 Sur. No. 3141 AMD Mesa lode, on line 2-3 Sur. No. 2614 Wedge lode, bears S. 62° 35' 40" E., 81.95 ft. dist.
	Thence N. 74° 23' 15" E.
51	Power line; bears North and South.
67	Road; Centerline bears N. 4° W. and S. 4° E.
67.68	Intersect line 2-3 Sur. No. 2614 Wedge lode at a point from which Cor. No. 2, identical with Cor. No. 2 Sur. No. 2659 Buffalo Mine lode and Cor. No. 1 Sur. No. 3141 AMD Mesa lode, on line 4-5 Sur. No. 2573A Native Copper lode, bears S. 7° 42' 30" E., 399.68 ft. dist.
70.00	Lode line; discovery point bears S. 7° 22' 45" E., 64.13 ft. dist.
80.83	Intersect line 4-1 Sur. No. 2605 Iron King lode at a point from which Cor. No. 1, identical with Cor. No. 4 Sur. No. 3141 AMD Mesa lode, on line 2-3 Sur. No. 2614 Wedge lode, bears S. 4° 54' W., 59.70 ft. dist.
140.00	Cor. No. 4. Set an iron post 2 ft. long, 1½ ins. diam., 13 ins. in the ground and in a concrete base, with brass cap mkd. W 1-4-4644. Thence S. 7° 22' 45" E.
400.00	Cor. No. 1, and place of beginning.

SURVEY NO. 4644

AREAS

	Acres
Total area, Wedge No. 1 lode	1.272
Area in conflict with ---	
Tract A, hereinafter described	0.019
Sur. No. 2605 Iron King lode	0.096
Sur. No. 2614 Wedge lode	0.647
Sur. No. 2614 Wedge lode, exclusive of its conflict with:	
(1) Sur. No. 2605 Iron King lode	0.638
(2) Tract A	0.627
Sur. No. 2659 Buffalo Mine lode	0.091
Sur. No. 3141 AMD Mesa lode	0.538
Sur. No. 3141 AMD Mesa lode, exclusive of its conflict with Sur. No. 2659 Buffalo Mine lode	0.447

TRACT A

That portion of Sur. No. 2614 Wedge lode in conflict with Wedge No. 1 lode of this survey, excluded by said Wedge lode in favor of Buffalo lode location abandoned by Sur. No. 2659 Buffalo Mine lode, and by Sur. No. 3141 AMD Mesa lode, and is bounded and described as follows:

Beginning at Cor. No. 2 Sur. No. 2614 Wedge lode--
Thence N. 7° 42' 30" W. along line 2-3 Sur. No. 2614 Wedge lode 355.8 ft. to north line of said abandoned location of Buffalo lode;

FEET

Thence N. 75° 08' E., 4.8 ft. to N.E. Cor. of said abandoned location of Buffalo lode; Thence S. 6° 56' 30" E., 356.42 ft. to place of beginning.

LOCATION

This survey is located in SW 1/4 sec. 11, T. 3 S., R. 13 E., G.&S.R.M., Pinal County, Arizona.

The survey of the Wedge No. 1 lode is identical with the location as marked on the ground.

EXPENDITURES

No. 1 A diamond drill hole, the center of which is the discovery point, is on the lode line, 335.87 feet from a point on line 1-2, 70 ft. from Cor. No. 1; 2 ins. diam., 100 ft. depth. Value, \$650

OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

Sur. No. 2573A Native Copper lode; No corners could be found. Line 4-5 was found to bear N. 74° 23' 15" E. instead of N. 74° 26' 36" E. as approved.

Sur. No. 2605 Iron King lode: Cor. No. 1, on line 2-3. Sur. No. 2614 Wedge lode, is identical with Cor. No. 4. Sur. No. 3141 AMD Mesa lode and has been perpetuated by a brass tablet set in concrete flush with the ground surface and mkd. IK-1-2605 and MESA-4-3141 AMD. No other corners could be found. Line 1-2 was found to bear S. 74° 11' W. instead of S. 75° 08' W. as approved.

Sur. No. 2614 Wedge lode: Cor. No. 2 is identical with Cors. Nos. 1 Sur. No. 2659 Buffalo Mine lode and Sur. No. 3141 AMD Mesa lode, and is a brass tablet set in concrete flush with the ground surface and mkd. BM-1-2659, W-2-2614, and M-1-3141 AMD. No other corners could be found. Line 1-2 was found to bear S. 74° 23' 15" W. instead of S. 74° 26' 36" W. as approved. Line 2-3 was found to bear N. 7° 42' 30" W., instead of N. 7° 43' 32" W. as approved. All distances are shown as approved.

Sur. No. 2659 Buffalo Mine lode: Cor. No. 1, identical with Cor. No. 2 Sur. No. 2614 Wedge lode and Cor. No. 1 Sur. No. 3141 AMD Mesa lode, previously described. Cor. No. 4 is a brass tablet 2 ins. diam., set in a concrete foundation extending 4 ins. above ground surface mkd. BM-4-2659 and MESA-3-3141 AMD. No other corners could be found. Line 1-2 was found to bear S. 74° 23' 15" W. instead of S. 74° 26' 36" W. as approved; line 4-1 was found to be S. 40° 54' 30" E., 375.21 ft. instead of S. 39° 53' E., 393.15 ft. as approved.

A POINT

Sur. No. 3141 Mesa AMD lode: Corners and boundaries identical with Sur. No. 3141 Mesa lode. Cors. Nos. 1, 2, 3 and 4 were all found, previously described. Line 1-2 was found to be S. 74° 23' 15" W., 70.00 ft. instead of S. 74° 55' W., 70.00 ft. as approved; line 2-3 was found to be N. 30° 31' 15" W., 351.05 ft. instead of N. 29° 46' W., 351.22 ft. as approved; line 3-4 was found to be

4.8

356.42

650

650

650

650

650

650

650

SURVEY NO. 4644

5.

FEET

N. $74^{\circ} 11'$ E., 207.52 ft. instead of N. $74^{\circ} 55'$ E., 207.27 ft. as approved; line 4-1 was found to be S. $7^{\circ} 42' 30''$ E., 343.23 ft. instead of S. $7^{\circ} 00'$ E., 343.19 as approved.

Sur. No. 4561 Fuller lode: Cor. No. 3, to which a tie is shown, has been destroyed by mining operations. Tie is calculated from Flat and Field Notes of M.S. 4561 Fuller lode.

FIELD ASSISTANTS

Name	Capacity
Wilburn H. Martin	Chainman

SURVEY NO. 1001

FEET

1. 74° 17' E., 207.52 ft. instead of N. 74° 17' E., 207.52 ft. approved.
207.52 ft. approved; line 1-1 was found to be 2. 7° W. 304.12 ft. instead of S. 7° 00' W. 304.12 ft. approved.

2. 74° 17' E., 207.52 ft. instead of N. 74° 17' E., 207.52 ft. approved.
3. 74° 17' E., 207.52 ft. instead of N. 74° 17' E., 207.52 ft. approved.
4. 74° 17' E., 207.52 ft. instead of N. 74° 17' E., 207.52 ft. approved.
5. 74° 17' E., 207.52 ft. instead of N. 74° 17' E., 207.52 ft. approved.
6. 74° 17' E., 207.52 ft. instead of N. 74° 17' E., 207.52 ft. approved.
7. 74° 17' E., 207.52 ft. instead of N. 74° 17' E., 207.52 ft. approved.
8. 74° 17' E., 207.52 ft. instead of N. 74° 17' E., 207.52 ft. approved.
9. 74° 17' E., 207.52 ft. instead of N. 74° 17' E., 207.52 ft. approved.
10. 74° 17' E., 207.52 ft. instead of N. 74° 17' E., 207.52 ft. approved.

FIELD ASSISTANTS

Operator

Name

Assistant

William H. Martin

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

Name of Mineral Surveyor Travis L. Gant	Date October 17, 1966
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I HEREBY CERTIFY That in pursuance of an order received from the Dept. of Interior Bureau of Land Management at Phoenix, Arizona dated Feb. 18, 1966, 19 66, I have carefully executed the survey of the claim of Kennecott Copper Corporation known as the (lode, placer, or mill site) Wedge No. 1 lode situated in Mineral Creek Mining District, Pinal County, Arizona, Sec. 11 Township 3 S., Range 13 E., Gila & Salt River Meridian, in the State of Arizona

This survey, designated as number 4644, 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) Wedge No. 1 lode location(s) embraced in the said mining claim by claimant(s) or their 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)	<i>Travis L. Gant</i> (Signature of Mineral Surveyor)
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CERTIFICATE OF APPROVAL

Bureau of Land Management Office Arizona State Office Location Phoenix, Arizona Date February 28, 1968
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The foregoing field notes of mineral survey number 4644, in Section 11 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, 19 66, 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.

<i>Fred J. Weiler</i> (Authorized Signature) Fred J. Weiler	State Director (Title)
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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)
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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 jurisdiction.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Form 1000
January 1963

CERTIFICATE OF REVIEW

October 17, 1966

Arizona

I have reviewed the application for a patent for an invention in the field of land management, and I find that the same is novel, useful, and non-obvious. I have also reviewed the application for a patent for an invention in the field of land management, and I find that the same is novel, useful, and non-obvious. I have also reviewed the application for a patent for an invention in the field of land management, and I find that the same is novel, useful, and non-obvious.

I have also reviewed the application for a patent for an invention in the field of land management, and I find that the same is novel, useful, and non-obvious. I have also reviewed the application for a patent for an invention in the field of land management, and I find that the same is novel, useful, and non-obvious. I have also reviewed the application for a patent for an invention in the field of land management, and I find that the same is novel, useful, and non-obvious.

Arizona

CERTIFICATE OF APPROVAL

Arizona
Bureau of Land Management
Phoenix, Arizona
Date
February 28, 1968

The Bureau of Land Management hereby certifies that the above described land is public land of the United States. I have also reviewed the application for a patent for an invention in the field of land management, and I find that the same is novel, useful, and non-obvious.

[Signature]
Special Agent in Charge

CERTIFICATE OF TRANSMISSION

I have reviewed the application for a patent for an invention in the field of land management, and I find that the same is novel, useful, and non-obvious. I have also reviewed the application for a patent for an invention in the field of land management, and I find that the same is novel, useful, and non-obvious. I have also reviewed the application for a patent for an invention in the field of land management, and I find that the same is novel, useful, and non-obvious.