

Form 4-683  
(January 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Mineral Survey number

4642

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

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

CONSISTING OF LOCATIONS NAMED AND LOCATED AS FOLLOWS

NAME OF LOCATION	DATE	
	LOCATED	AMENDED
Marion No. 1	10/28/65	

Mining district	Mineral Creek	County	Pinal
Section	11	Township	3 South
		Range	13 East
		Meridian	Gila & Salt River
Survey commenced	April 25, 1966	Survey completed	May 9, 1966
		Name of Mineral Surveyor	Travis L. Gant
		Survey under order dated	February 18, 1966



SURVEY NO. 4642

1.

F E E T

This survey was made with a W. & L. 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 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:

April 26, 1966, at Cor. No. 3 of the Marion No. 1 lode in latitude  $33^{\circ} 10' 54.3''$  N. and longitude  $110^{\circ} 59' 22.2''$  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 1500 feet northeastward clockwise to the sun.

Mean time of observation,  
105th meridian, standard time = 4:46 p.m.

Declination of sun at mean time  
of observation =  $13^{\circ} 36' 54''$  N.

Mean observed vertical angle to  
sun's center =  $26^{\circ} 59' 40''$

Mean horizontal angle from  
reference point to sun's center  
turned clockwise and to the  
right to sun's center =  $226^{\circ} 37' 08''$

True bearing to reference point = N.  $42^{\circ} 22' 50''$  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. 4642

MARION No. 1 LODE

At Cor. No. 1 of the Marion No. 1 lode,

On line 3-4 Sur. No. 3055 Marion lode

Set an iron post, 2 ft. long,  $1\frac{1}{2}$  ins. diam., 18 ins. in the ground and in a concrete base, with brass cap mkd. M 1-1-4642; from which

The  $\frac{1}{4}$ -corner of Secs. 11 and 12, T. 3 S., R. 13 E., G. & S. R. M., bears S.  $75^{\circ} 28' 42''$  E., 1300.62 ft. dist., an iron post 1 ins. diam., 13 ins. above ground, firmly set, with brass cap marked as

FEET	
	<p>described in the official record. Post and cap were found bent over, although still solidly embedded in the ground. The center of the post at the point where it enters the ground was accepted as the true corner.</p> <p>Cor. No. 3 Sur. No. 2605 Chicago lode bears N. 39° 58' 30" E., 345.04 ft. dist.</p> <p>Cor. No. 4 Sur. No. 3367 Carrie Nation lode, on line 2-3 Sur. No. 2605 Chicago lode, bears N. 32° 55' 25" E., 289.16 ft. dist.</p> <p style="text-align: center;">Thence S. 42° 17' 45" W.</p>
204.42	Intersect line 4-1 Sur. No. 3367 Wedge lode at a point from which Cor. No. 1 bears N. 10° 44' 40" W., 396.53 ft. dist.
406.20	Intersect line 2-3 Sur. No. 4557 Canyon No. 4 lode at a point from which Cor. No. 3 bears N. 18° 28' W., 517.45 ft. dist.
579.42	Intersect line 1-2 Sur. No. 2605 Chicago lode, identical with line 3-4 Sur. No. 2605 New York lode, at a point from which Cors. Nos. 2 and 3 respectively bear N. 4° 54' E., 503.30 ft. dist.
1,195	Centerline of haul road 60 ft. wide; centerline bears N. 5° W., and S. 5° E.
1,489.55	Intersect line 1-2 Sur. No. 2605 New York lode, identical with line 4-1 Sur. No. 2605 Boston lode, at a point from which Cor. Nos. 1 bear S. 4° 54' W., 514.17 ft. dist.
1,491.35	Intersect line 1-2 Sur. No. 3055 Marion lode at a point from which Cor. No. 2 bears N. 47° 39' W., 48.17 ft. dist.
1,496.25	<p>Cor. No. 2</p> <p>Set an iron post, 2 ft. long, 1½ ins. diam., 18 ins. in the ground and in a concrete base, with brass cap mkd. M 1-2-4642; from which</p> <p>Cor. No. 1 Sur. No. 2605 Boston lode, identical with Cor. No. 1 Sur. No. 2605 New York lode, and on line 2-3 Sur. No. 1581 Truman lode, bears S. 4° 26' 30" W., 508.87 ft. dist.</p> <p>Cor. No. 2 Sur. No. 3055 Marion lode bears N. 41° 51' W., 48.42 ft. dist.</p> <p style="text-align: center;">Thence N. 47° 38' 45" W.</p>
48.25	Lode line; discovery point bears N. 42° 18' 30" E., 1,085.11 ft. dist.
97.86	<p>Cor. No. 3</p> <p>Set an iron post, 2 ft. long, 1½ ins. diam., 15 ins. in the ground and in a concrete base, with brass cap mkd. M 1-3-4642.</p>

SURVEY NO. 4642

3.

FEET	
	Thence N. 42° 22' 50" E.
134.36	Intersect line 4-1 Sur. No. 2605 Boston lode, identical with line 1-2 Sur. No. 2605 New York lode, at a point from which Cor. Nos. 1 bear S. 4° 54' W., 674.98 ft. dist.
380	Centerline of haul road 60 ft. wide; centerline bears N. 5° W., and S. 5° E.
1,042.73	Intersect line 3-4 Sur. No. 2605 New York lode, identical with line 1-2 Sur. No. 2605 Chicago lode, at a point from which Cor. Nos. 3 and 2 respectively bear N. 4° 54' E., 344.71 ft. dist.
1,143.78	Intersect line 2-3 Sur. No. 4557 Canyon No. 4 lode at a point from which Cor. No. 3 bears N. 18° 28' W., 407.24 ft. dist.
1,363.85	Intersect line 4-1 Sur. No. 3367 Wedge lode at a point from which Cor. No. 1 bears N. 10° 44' 40" W., 276.59 ft. dist.
1,496.25	Cor. No. 4  Set an iron post, 2 ft. long, 1½ ins. diam., 18 ins. in the ground and in a concrete base, with brass cap mkd. M 1-4-4642; from which  Cor. No. 4 Sur. No. 2605 Blue Bell lode, on line 2-3 Sur. No. 2605 Chicago lode, bears N. 0° 44' 40" E., 101.95 ft. dist.  Cor. No. 2 Sur. No. 2605 Chicago lode, identical with Cor. No. 3 Sur. No. 2605 New York lode, on line 4-1 Sur. No. 2605 Blue Bell lode, bears N. 88° 15' W., 276.38 ft. dist.  Cor. No. 1 Sur. No. 3367 Wedge lode bears N. 38° 59' 30" W., 223.79 ft. dist.  Cor. No. 3 Sur. No. 4557 Canyon No. 4 lode, bears N. 71° 02' 38" W., 387.60 ft. dist.
	Thence S. 47° 38' 45" E.
47.72	Lode line; discovery point bears S. 42° 18' 30" W., 411.14 ft. dist.
48.02	Intersect Cor. No. 3 Sur. No. 3055 Marion lode.
95.64	Cor. No. 1, and place of beginning.
SURVEY NO. 4642	
	AREAS
	<u>Acres</u>
	Total Area, Marion No. 1 lode 3.323
	Area in conflict with --
Tract A. hereinafter described	0.318
Sur. No. 2605 Boston lode	0.158
Sur. No. 2605 Boston lode, exclusive of its conflict with Tract A	0.143
Sur. No. 2605 New York lode	2.026
Sur. No. 2605 New York lode, exclusive of its conflict with Tract A	1.830

## SURVEY NO. 1642

FEET

Sur. No. 2605 Chicago lode	1.138
Sur. No. 2605 Chicago lode, exclusive of its conflict with Tract A	1.030
Sur. No. 3055 Marion lode	1.640
Sur. No. 3055 Marion lode, exclusive of its conflict with:	
(1) Sur. No. 2605 Boston lode	1.603
(2) Sur. No. 2605 New York lode	0.637
(3) Sur. No. 2605 Chicago lode	1.039
(4) Sur. No. 2605 Boston, New York, and Chicago lodes	0.000
Sur. No. 3367 Wedge lode	0.370
Sur. No. 3367 Wedge lode, exclusive of its conflict with:	
(1) Sur. No. 2605 Chicago lode	0.000
(2) Sur. No. 3055 Marion lode	0.166
(3) Tract A	0.298
(4) Sur. No. 3055 Marion lode and Tract A	0.132
Sur. No. 4557 Canyon No. 4 lode	0.835
Sur. No. 4557 Canyon No. 4 lode, exclusive of its conflict with:	
(1) Sur. No. 2605 Chicago lode	0.000
(2) Sur. No. 3055 Marion lode	0.405
(3) Sur. No. 3367 Wedge lode	0.465
(4) Tract A	0.756
Sur. No. 4557 Canyon No. 4 lode, exclusive of its conflict with Sur. No. 3305 Marion lode, Sur. No. 3367 Wedge lode, and Tract A	0.194

## TRACT A

That portion of Sur. No. 2605 Boston, New York, and Chicago lodes in conflict with Marion No. 1 lode of this survey, excluded by said Boston, New York, and Chicago lodes in favor of a location now abandoned by Sur. No. 3055 Marion lode, is bounded and described as follows:

Beginning at Cor. No. 2 Sur. No. 3055 Marion lode--  
 Thence N.  $47^{\circ} 39'$  W., 9.51 ft. to W. Cor. of said abandoned location of Marion lode;  
 Thence N.  $42^{\circ} 20'$  E., 1,491.36 ft. to N. Cor. of said abandoned location of Marion lode, on line 4-1 Marion No. 1 lode;  
 Thence S.  $47^{\circ} 38' 45''$  E., along line 4-1 Marion No. 1 lode, 9.1 ft. to Cor. No. 3 Sur. No. 3055 Marion lode;  
 Thence S.  $42^{\circ} 19'$  W. along line 2-3 Sur. No. 3055 Marion lode, 1,491.35 ft. to Cor. No. 2 and place of beginning.

## LOCATION

This survey is located in E.  $\frac{1}{2}$  Sec. 11, T. 3 S., R. 13 E., G. & S. R. M., Pinal County, Arizona.

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

SURVEY NO. 4642

5.

FEET

EXPENDITURES

No. 1

A diamond drill hole, the center of which is the discovery point, is on the lode line, 411.14 feet from a point on line 4-1, 47.92 ft. from Cor. No. 1; 2 ins. diam., 90 ft. depth.

Value, \$ 585

OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

Sur. No. 2605 Boston lode: No corners could be found. All lines shown as approved.

Sur. No. 2605 New York lode: No corners could be found. All lines shown as approved.

Sur. No. 2605 Chicago lode: Cor. No. 3 is a 4x4 post in a mound of stone, still firmly set although of great age. Markings illegible. Post identified from tie given on plat of M.S. 3367. No other corners could be found. The aforementioned 4x4 post provides the only definite tie to any lode of Sur. No. 2605. All lines shown as approved.

Sur. No. 2605 Blue Bell lode: No corners could be found. All lines shown as approved.

Sur. No. 3055 Marion lode: Cors. Nos. 1 and 2 could not be found. Cor. No. 1 is under a fill dump; Cor. No. 2 appears to have been lost in a recent clearing operation. Cors. Nos. 3 and 4 are stones firmly set and properly marked. Lines 1-2 and 2-3 shown as approved; Line 3-4 was found to be S. 47° 38' 45" E., 591.95 ft., instead of S. 47° 39' E., 592 ft. as approved.

Sur. No. 3367 Wedge lode: Cors. Nos. 1, 2 and 4 are brass caps, square in shape, attached to iron posts 1 ins. diam., firmly set and properly marked. Line 1-2 was found to be N. 71° 16' 36" E., 399.56 ft. instead of N. 71° 17½' E., 400 ft. as approved. Line 4-1 was found to be N. 10° 44' 40" W., 1497.90 ft. instead of N. 10° 45' W., 1499.27 ft. as approved. The purpose of tying Cor. No. 2 to present survey was to make positive identification of Cor. No. 3 Sur. No. 2605 Chicago lode, using approved Field Notes of Sur. No. 3367 Wedge lode.

Sur. No. 4557 Canyon No. 4 lode: Cor. No. 2 has been destroyed by road construction. Cor. No. 3 is a brass cap attached to an iron post 1½ ins. diam. and is firmly set and properly marked. Line 2-3 shown as approved.

FIELD ASSISTANTS

Name	Capacity
Wilburn H. Martin	Chainman

FEET



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

Name of Mineral Surveyor Travis L. Gant	Date May 15, 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 February 18, 1966, 1966, I have carefully executed the survey of the claim of Kennecott Copper Corporation, known as the (lode, placer, or mill site) Marion No. 1 lode, situated in Mineral Creek Mining District, Pinal County, Arizona Sec. 11 Township 3 S., Range 13 E., Gila and Salt River Meridian, in the State of Arizona.

This survey, designated as number 4642, 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) Marion No. 1 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)	<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 July 24, 1967
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The foregoing field notes of mineral survey number 4642, in Section 11, Township 3 S., Range 13 E., Gila & 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.

<i>Fred J. Weaver</i> (Authorized Signature) Fred J. Weaver	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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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.

STATE OF TEXAS  
COUNTY OF [illegible]

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