Form 4–683
(January 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES

Mineral Survey number: 4641
State: Arizona
Land District: Arizona

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	DATE AMENDED
Fraction No. 3	11/16/64	

Mining district	County
Mineral Creek	Pinal

Section	Township	Range	Meridian	Survey under order dated
14	3 South	13 East	Gila & Salt River	February 18, 1966

Survey commenced	Survey completed	Name of Mineral Surveyor
March 22, 1966	April 30, 1966	Travis L. Gant

SURVEY NO. 4641

FEET

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 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 22, 1966, at Cor. No. 2 of the Fraction No. 3 lode in latitude 33° 10' 19.4" N. and longitude 110° 59' 00.8" 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 365 feet southwestward clockwise to the sun.

Mean time of observation, 105th meridian, standard time	= 3:42 P.M.
Declination of sun at mean time of observation	= 0° 44' 00" N.
Mean observed vertical angle to sun's center	= 34° 45' 23"
Mean horizontal angle from reference point to sun's center, turned clockwise and to the right to sun's center	= 349° 28' 00"
True bearing to reference point	= S. 74° 45' W.

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° 30' E.

SURVEY NO. 4641

FRACTION NO. 3 LODE

Beginning at Cor. No. 1 of the Fraction No. 3 lode,

Set an iron post, 2 ft. long, $1\frac{1}{2}$ ins. diam., 16 ins. in the ground and in a concrete base, with brass cap mkd. F 3-1-4641; from which

The cor. of Secs. 11, 12, 13, and 14, T. 3 S., R. 13 E., G. & S. R. M., bears N. 12° 19' 27" E.,

FEET	
	1,370.10 ft. dist., an iron post 2 ins. diam., 18 ins. above ground, firmly set, with brass cap marked as described in the official record.
	Cor. No. 2 Sur. No. 2466 Fraction No. 2 lode, on line 4-1 Sur. No. 1581 Saturn lode, bears S. 25° 35' 30" W., 110.93 ft. dist.
	Cor. No. 4 Sur. No. 1581 Saturn lode identical with Cor. No. 1 Sur. No. 1581 Satellite lode bears S. 57° 38' 10" E., 102.37 ft. dist.
	Thence S. 15° 15' E.
79.66	Intersect line 4-1 Sur. No. 1581 Saturn lode, identical with line 2-3 Sur. No. 2466 Fraction No. 2 lode, at a point from which Cor. No. 2 Sur. No. 2466 Fraction No. 2 lode bears S. 71° 23' 25" W., 72.67 ft. dist.
100.00	Lode line; discovery point bears S. 74° 45' W., 100 ft. dist.
200.00	Cor. No. 2.
	Set an iron post, 2 ft. long, 1½ ins. diam., 15 ins. in the ground and in a concrete base, with brass cap mkd. F 3-2-4641; from which
	Cor. No. 3 Sur. No. 1581 Rainey lode bears N. 52° 09' 15" W., 109.30 ft. dist.
	Cor. No. 2 Sur. No. 2466 Little Frank lode bears S. 9° 03' 40" W., 504.45 ft. dist.
	Thence S. 74° 45' W.
71.87	Intersect line 3-4 Sur. No. 1581 Rainey lode at a point from which Cor. No. 3 bears N. 11° 10' W., 87.62 ft. dist.
79.14	Intersect line 1-2 Sur. No. 2466 Fraction No. 2 lode at a point from which Cor. No. 2 bears N. 12° 00' W., 116.27 ft. dist.
366.64	Witness Corner for Cor. No. 3
	Set an iron post, 2 ft. long, 1½ ins. diam., 17 ins. in the ground and in a concrete base, with brass cap mkd. WC-F 3-3-4641.
390	Descend over rim into slide rock area; rim bears North and South.
500.00	Cor. No. 3.
	This corner falls on slide rock where a monument cannot be preserved. From this point Cor. No. 1 Sur. No. 1581 Saturn lode identical with Cor. No. 4 Sur. No. 1581 Sooner lode bears N. 33° 48' 40" W., 94.13 ft. dist.
	Thence N. 15° 15' W.

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90.99	Intersect line 4-1 Sur. No. 1581 Saturn lode at a point from which Cor. No. 1, identical with Cor. No. 4 Sur. No. 1581 Sooner lode, bears S. 71° 23' 25" W., 30.01 ft. dist.
100.00	Lode line; discovery point bears N. 74° 45' E., 400 ft. dist.
118.41	Intersect line 2-3 Sur. No. 1581 Rainey lode at a point from which Cor. No. 3 bears N. 78° 50' E., 435.47 ft. dist.
200.00	Cor. No. 4.
	This corner falls on slide rock where a monument cannot be preserved, witnessed N. 74° 45' E., 218.04 ft. dist.
	Thence N. 74° 45' E.
175	Ascend slide rock to rim; rim bears N. 15° W. and S. 15° E.
218.04	Witness Corner for Cor. No. 4.
	Set an iron post, 2 ft. long, 1½ ins. diam., 14 ins. in the ground and in a concrete base, with brass cap mkd. WC-F 3-4-4641.
500.00	Cor. No. 1 and place of beginning.

SURVEY NO. 4641

AREAS	Acres
Total area, Fraction No. 3 lode	2.296
Area in conflict with - -	
Sur. No. 1581 Rainey lode	1.020
Sur. No. 1581 Saturn lode	1.083
Sur. No. 1581 Saturn lode, exclusive of its conflict with Sur. No. 1581 Rainey lode	1.017
Sur. No. 2466 Fraction No. 2 lode	0.206
Sur. No. 2466 Fraction No. 2 lode, exclusive of its conflict with Sur. No. 1581 Rainey lode	0.190

LOCATION

This survey is located in E. ½ NE¼ Sec. 14, T. 3 S., R. 13 E., G. & S. R. M., Pinal County, Arizona.

The survey of the Fraction No. 3 lode is identical with the location as marked on the ground.

EXPENDITURES

No. 1	The discovery point of the Fraction No. 3 lode is on the lode line, 100 ft. from a point on line 1-2, 100.00 ft. from Cor. No. 1.
	No value.

(This form bound at left)

FEET	
No. 2	A diamond drill hole is on the lode line, 140 ft. from a point on line 1-2, 100.00 ft. from Cor. No. 1; 2 ins. diam., 278 ft. depth. Value, $1,807

OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

Corner descriptions and supplemental data for Sur. No. 2466 Little Frank lode and Sur. No. 1581 Satellite lode are included herein although these lodes are not in conflict with this survey.

Sur. No. 2466 Little Frank lode: Cor. No. 2 is a tufa stone firmly set and properly marked; Cor. No. 3 is a quartzite stone firmly set and properly marked. Line 2-3 was found to be N. 36° 58' 30" E., 1,481.92 ft., instead of N. 37° 07' E., 1,485 ft. as approved. The approved plat of Sur. No. 2466 shows Cors. Nos. 1 and 3 of the Fraction No. 2 lode on line 2-3 of the Little Frank lode. The line from Cor. No. 2 of the Little Frank lode to Cor. No. 3 of the Fraction No. 2 lode was found to be N. 36° 58' 30" E., 1,003.01 ft., instead of N. 37° 07' E., 1,004.58 ft. as approved.

Sur. No. 2466 Fraction No. 2 lode: Cor. No. 3 is a tufa stone, firmly set and properly marked. Cor. No. 4 is a limestone, firmly set and improperly marked thus: 3-F 2-2466; I make no changes in the markings found on the limestone. Line 3-4 was found to be S. 12° 05' E., 57.83 ft., instead of S. 12° E., 58 ft. as approved. Cors. Nos. 1 and 2 could not be found. A temporary point for Cor. No. 1 was established on line 2-3 Sur. No. 2466 Little Frank lode at approved distance of 135.55 ft. from Cor. No. 2 Little Frank lode. A temporary point for Cor. No. 2 was established on line 4-1 Sur. No. 1581 Saturn lode at the point of intersection of said line 4-1 with a line which bears N. 12° 00' W. from Cor. No. 1, this being the approved bearing of line 1-2. Line 1-2 was found to be N. 12° 00' W., 493.56 ft., instead of N. 12° 00' W., 492 ft. as approved. Line 2-3 was found to be N. 71° 23' 25" E., 658.81 ft., instead of N. 71° 20' E., 661.49 ft. as approved.

Sur. No. 1581 Satellite lode: Cor. No. 4 is a 1½ ins. diam. iron post with brass cap mkd. SAT-4-1581 and LA 3-4-4562. Cor. No. 1 could not be found. The approved plat for Sur. No. 2466 indicated that Cor. No. 3 of the Fraction No. 2 lode is on line 4-1. The tie from Cor. No. 4 to said Cor. No. 3 Sur. No. 2466 Fraction No. 2 lode was found to be S. 71° 14' W., 84.17 ft. instead of S. 71° 20' W., 84 ft. as approved. The line connecting Cor. No. 3 Sur. No. 2466 Fraction No. 2 lode with Cor. No. 1 Sur. No. 1581 Saturn lode bears S. 71° 23' 25" W. instead of S. 71° 30' W. as approved per Sur. No. 1581. That portion of line 4-1 which is common to and identical with a portion of line 2-3 Sur. No. 2466 Fraction No. 2 lode, i.e., from Cor. No. 3 of the Fraction No. 2 lode to Cor. No. 1 of the Satellite lode, was found to be 517.00 ft. instead of 509.44 ft. as approved.

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Sur. No. 1581 Saturn lode: Cor. No. 1, identical with Cor. No. 4 Sur. No. 1581 Sooner lode, is a 4 x 4 post in a mound of stone, loosely set and badly rotted. Shortly after this survey was completed, this monument was lost in sliding rock. No other corners could be found. Line 4-1 was found to be S. 71° 23' 25" W., 600 ft. instead of S. 71° 30' W., 600 ft. as approved.

Sur. No. 1581 Rainey lode: Cor. No. 4 is perpetuated by a 2 ft. x 2 ft. by 30 ins. truncated pyramidal concrete monument containing a 4 ins. x 4 ins. square hole in its top which appears to have at one time contained a 4 x 4 post. Cor. No. 4 was restored in this survey from its bearing rock; the restored point falls in the center of the above-described hole. Thus the center of said hole is accepted herein as the point for the original Cor. No. 4. Cors. Nos. 2 and 3 could not be found. All lines shown as approved.

FIELD ASSISTANTS

Name	Capacity
Wilburn H. Martin	Chainman

	FEET		

Form 4–686
(January 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

Name of Mineral Surveyor	Date
Travis L. Gant	October 26, 1966

I HEREBY CERTIFY That in pursuance of an order received from the U.S. 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)* Fraction No. 3 lode, situated in Section 14, Township 3 South, Range 13 East, Gila and Salt River Meridian, in the State of Arizona.

This survey, designated as number 4641, 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)* Fraction No. 3 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
November 18, 1966

The foregoing field notes of mineral survey number 4641, in Section 14, Township 3 S., Range 13 E., Gila and Salt River Meridian, in the State of Arizona, [X] surveyed [ ] unsurveyed, 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.

Fred J. Weiler
(Authorized Signature)

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.

INTERIOR--PORTLAND, OREGON