

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MINERAL SURVEY NO. 4561

ARIZONA

Land District.

FIELD NOTES

Of The Survey Of The Mining Claim Of

KENNECOTT COPPER CORPORATION

Known As The

FULLER LODE

Mineral Creek Mining District,

Pinal County, Arizona

Section 11 and 14, Township 3 S., Range 13 E.

Surveyed under order dated March 20, 1961.

by OSCAR T. SMITH
Mineral Surveyor.

Claim located July 30, 1915

Survey commenced August 8, 1961

Survey completed August 15, 1961

Address of claimant Ray, Arizona

DATES OF AMENDED LOCATIONS

March 7, 1957

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY

1958

RESEARCH REPORT

BY

DR. J. H. GOLDSTEIN

AND

DR. R. W. WILSON

CHICAGO, ILLINOIS

1958

1958

1958

CHICAGO, ILLINOIS

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SURVEY NO. 4561

1.

Chains

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

August 9, 1961, at cor. No. 1 of the Fuller lode, in latitude $33^{\circ}10'06''$ N., and longitude $110^{\circ}59'27''$ 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 600.00 ft. Northwest to the sun.

Mean time of observation, 105th
meridian standard time = $5^{\text{h}}34^{\text{m}}30^{\text{s}}$ P.M.

Declination of sun at mean
time of observation = $15^{\circ}41'53''$ N.

Mean observed vertical angle
to sun's center = $19^{\circ}16'24''$

Mean horizontal angle from
reference point to sun's
center = $65^{\circ}12'$ N.W.

The bearing to reference point = N. $18^{\circ}15'40''$ W.

The lines were measured with a Keuffel & Esser steel tape 500 ft. in length graduated every foot for 500 ft., and a steel tape 10 ft. in length, graduated to feet, tenths and hundredths; both tapes were compared with a standard 100 ft. invar steel tape at the time of beginning 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. 4561

Feet

FULLER LODE

At cor. No. 1 of the Fuller lode.

Set an iron pipe 3 ft. long, 1-1/2 in. diam., 18 ins. in the ground, with brass cap mkd. F-1-4561; from which

The cor. of secs. 11, 12, 13 and 14, T. 3 S., R. 13 E., G. & S. R. M., bears S. $75^{\circ}07'$ E., 1122.60 ft. dist., a 1 in. iron post with brass cap, 12 ins. above ground, firmly set, mkd. and witnessed as described in the official records.

SURVEY NO. 4561

Chains	Feet	Description
		Cor. Nos. 3 and 4 Sur. No. 1581 Thomas and Contention lodes bears N. $9^{\circ}21'40''$ W., 213.45 ft. dist. No local bearing objects or bearing trees available. Thence S. $75^{\circ}20'$ W.
	1467.41	Intersect cor. No. 2 Sur. No. 1581 Grace L. lode.
	1469.34	Intersect line 1-2 Sur. No. 1581 Thomas lode at a point from which cor. No. 2 bears N. $18^{\circ}30'$ W., 112.50 ft. dist.
	1500.00	Cor. No. 2, identical with cor. No. 1 Sur. No. 2573A Native Copper lode and on line 2-3 Sur. No. 1581 Grace L. lode. An iron pipe 1-1/4 in. diam. set in a concrete block 18x18 ins. 3-1/2 ft. above ground; with brass cap mkd. F-2-4561-NC-1-2573A; from which Cor. Nos. 1 and 2 Sur. No. 1581 Contention and Thomas lodes bears N. $3^{\circ}02'50''$ W., 114.60 ft. dist. No local bearing objects or bearing trees available. Thence N. $18^{\circ}16'$ W.
	300.59	Lode line; discovery point bears N. $75^{\circ}20'$ E., 72.00 ft. dist.
	597.14	Intersect line 4-5 Sur. No. 2573A Native Copper lode at a point from which cor. No. 5 bears N. $74^{\circ}26'36''$ E., 15.63 ft. dist.
	601.18	Cor. No. 3. Set an iron pipe 3 ft. long, 1-1/2 ins. diam., 18 ins. in the ground with brass cap mkd. F-3-4561; from which Cor. No. 5 Sur. No. 2573A Native Copper lode bears N. $88^{\circ}48'30''$ E., 16.34 ft. dist. No local bearing objects or bearing trees available. Thence N. $75^{\circ}20'$ E.
	28.14	Intersect line 1-2 Sur. No. 1581 Contention lode, from which cor. No. 1 bears S. $18^{\circ}30'$ E., 488.83 ft. dist.
	1500.00	Cor. No. 4. Set an iron pipe 3 ft. long, 1-1/2 in. diam., 18 ins. in the ground, with brass cap mkd. F-4-4561. No local bearing objects or bearing trees available. Thence S. $18^{\circ}16'$ E.

Chains	Feet	Description
300.59		Lode line; discovery point bears S. 75°20' W., 1428.00 ft. dist.
390.46		Intersect line 4-1 and 2-3 Sur. No. 1581 Contention and Thomas lodes at a point from which cor. Nos. 1 and 2 bears S. 71°30' W., 1466.96 ft. dist.
601.18		Cor. No. 1, and the place of beginning.

AREAS

	Acres
Total area, Fuller lode	20.661
Area in conflict with-	
Tract A hereinafter described	4.265
Tract B hereinafter described	1.062
Sur. No. 2573A Native Copper lode	.107
Sur. No. 1581 Contention lode	14.815
Sur. No. 1581 Contention lode, exclusive of its conflict with Tract A	10.550
Sur. No. 1581 Thomas lode	5.442
Sur. No. 1581 Thomas lode, exclusive of its conflict with Tract B	4.380

TRACT A

That portion of Sur. No. 1581 Contention lode in conflict with Fuller lode of this survey, excluded by said Contention lode in favor of a location now abandoned, is bounded and described as follows:

Beginning at cor. No. 1 Sur. No. 1581 Contention lode, identical with cor. No. 2 Sur. No. 1581 Thomas lode;
 Thence N. 18°30' W., 488.83 ft. to line 3-4 Fuller lode;
 Thence N. 75°20' E., 406.80 ft. to a point on same line;
 thence S. 14°40' E., 462.67 ft. to line 4-1 Contention lode;
 Thence S. 71°30' W., 374.96 ft. to place of beginning.

Tract A contains 4.265 acres:

TRACT B

That portion of Sur. No. 1581 Thomas lode in conflict with Fuller lode of this survey, excluded by said Thomas lode in favor of a location now abandoned, is bounded and described as follows:

Beginning at cor. No. 2 Sur. No. 1581 Thomas lode, identical with cor. No. 1 Sur. No. 1581 Contention lode;
 Thence N. 71°30' E., 374.96 ft. to N.E. cor. Tract B, identical with S.E. cor. Tract A;
 Thence S. 14°40' E., 137.33 ft. to line 1-2 Fuller lode;
 Thence S. 75°20' W., 366.56 ft. to line 1-2 Sur. No. 1581 Thomas lode;
 Thence N. 18°30' W., 112.50 ft. to place of beginning.

Tract B contains 1.062 acres.

Claims

LOCATION

This survey is located in the N.E. 1/4 of Sec. 14 and the S. 1/2 of Sec. 11, T. 3 S., R. 13 E, G. & S.R.M.

EXPENDITURES

The improvements and the value of the labor and improvements made upon or for the benefit of the lode location embraced in said mining claim by the claimant or its grantors are as follows:

- No. 1 The discovery point of the Fuller lode is on the lode line 72.00 ft. from a point on line 2-3, 300.59 ft. from cor. No. 2.
No value.
- No. 2 A shaft the center of which bears N. 1°00' W., 288.00 ft. from cor. No. 2 Fuller lode; 6x7 ft., 9 ft. deep.
Value, \$375.00.
- No. 3 A diamond drill hole the center of which bears S. 32° 14' E., 117.00 ft. from cor. No. 3 Fuller lode; 1174 ft. deep.
Value, \$8,839.80.
- No. 4 A diamond drill hole the center of which bears S. 63° 23' E., 405.00 ft. from cor. No. 3 Fuller lode; 454 ft. deep.
Value, \$2,104.56.

OTHER IMPROVEMENTS

None.

OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

Sur. No. 1581 Thomas lode: Cors. Nos. 1 and 2 have been destroyed. Cors. Nos. 3 and 4 are 4x4 in. post firmly set and properly mkd. Lines 1-2 and 2-3 are shown as approved.

Sur. No. 1581 Contention lode: Cors. Nos. 1 and 2 have been destroyed. Cors. Nos. 3 and 4 are 4x4 in. post firmly set and properly mkd. Lines 1-2 and 4-1 are shown as approved.

Sur. No. 2573A Native Copper lode: Cor. No. 1 has been destroyed, reset by owners with a 1-1/2 in. iron pipe in concrete 3-1/2 ft. above ground, firmly set and properly mkd. No other cors. could be found. Lines 1-2, 4-5 and 5-1 are shown as approved.

Sur. No. 1581 Grace L. Lode: Cor. No. 2 has been destroyed, reset by owners with a 1-1/2 in. iron pipe in concrete 3 ft. above ground, firmly set and properly mkd. No other cors. could be found. Line 2-3 shown as approved.

FIELD ASSISTANTS

Name	Capacity
Lee Cook	Chainman

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

August 7, 1964

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 March 20, 1961, I have faithfully and correctly executed the survey of
the mining claim of Kennecott Copper Corporation
known as the Fuller
(Lode, placer, or mill site)
situate in Mineral Creek Mining District, Pinal County, Secs. 11 and 14,
T. 3 S., R. 13 E., G. & S. R. Meridian, Arizona, and
(State)
designated as Survey No. 4561, 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

Bureau of Land Management
Arizona State Office

(Office)

Phoenix, Arizona October 1, 1964

(Place)

(Date)

The foregoing field notes of mineral survey No. 4561, in Sections 11 and 14

, T. 3 South, R. 13 East, Gila & Salt River Meridian,
Arizona, executed by Oscar T. Smith, Mineral Surveyor,
(State)

under order dated March 20, 1961, 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.

Raymond C. Cleghorn
Raymond C. Cleghorn
Acting State Director
(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.

(Title)

