

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

MINERAL SURVEY NO. 4560

ARIZONA

Land District.

FIELD NOTES

Of The Survey Of The Mining Claim Of

KENNECOTT COPPER CORPORATION

Known As The

CONTACT NO. 11 LODE

MINERAL CREEK Mining District,

PINAL County, ARIZONA

Section 13, Township 3 S., Range 13 E.

Surveyed under order dated March 20, 1961

by OSCAR T. SMITH  
Mineral Surveyor.

Claim located December 22, 1955

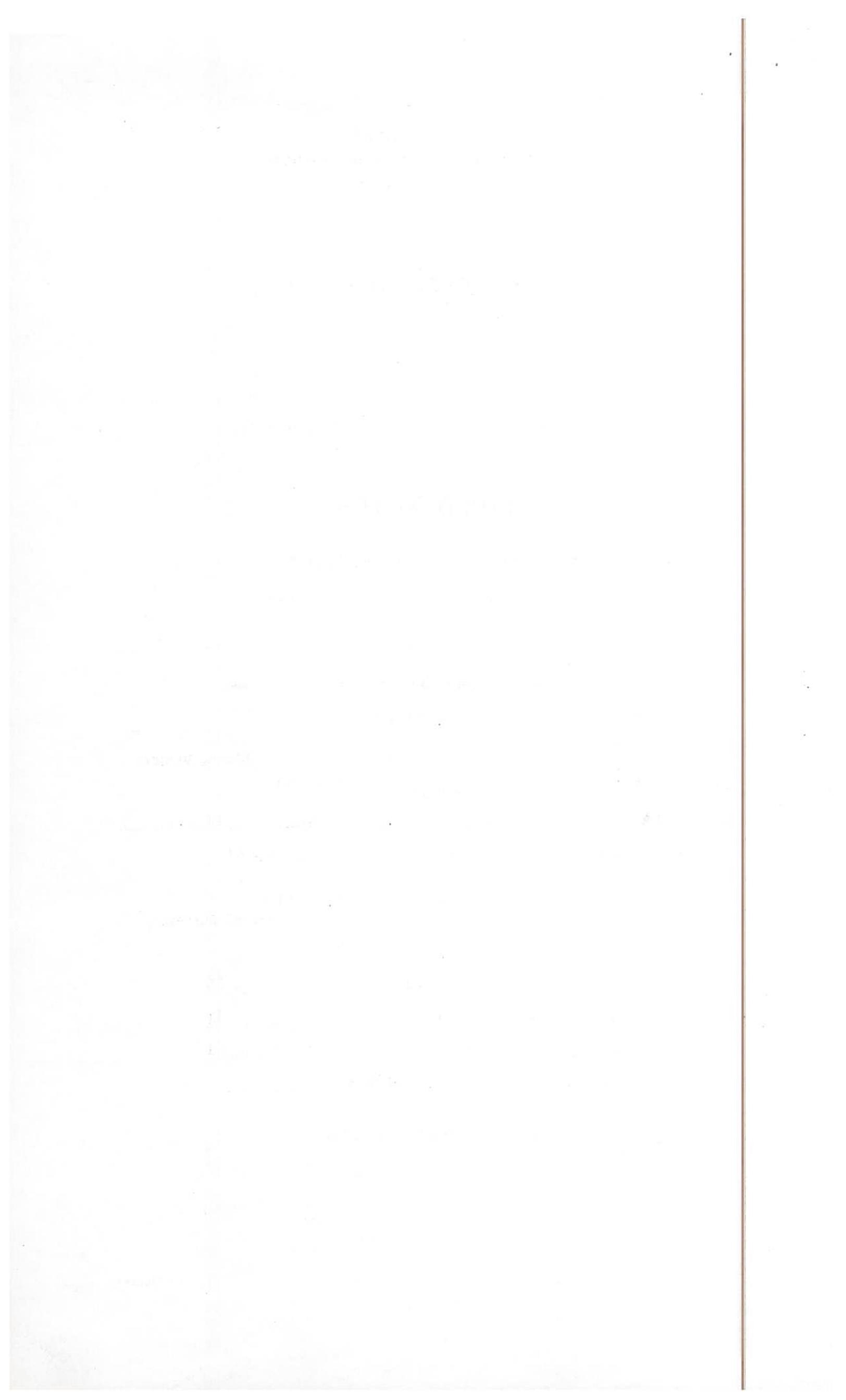
Survey commenced August 1, 1961

Survey completed August 20, 1961

Address of claimant Ray, Arizona

DATES OF AMENDED LOCATIONS

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This survey was made with a Keuffel & Esser Co. 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:

August 8, 1961, at cor. No. 4 of the Contact No. 11 lode in latitude  $33^{\circ} 09' 43''$  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 600.00 ft. Southward S. E. to the sun.

Mean time of observation, 105th  
meridian standard time =  $3^{\text{h}} 55^{\text{m}} 30$  P.M.

Declination of sun at mean  
time of observation =  $16^{\circ} 08' 04''$

Mean observed vertical angle  
to sun's center =  $40^{\circ} 37' 10''$

Mean horizontal angle from  
reference point to sun's center =  $80^{\circ} 37' 50''$  S.W.

True bearing to reference point = S.  $2^{\circ} 05' 15''$  W.

The lines were measured with a Keuffel & 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 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.

Feet

## CONTACT NO. 11. LODE

At cor. No. 1 of the Contact No. 11 lode, identical with cor. No. 4 of Sur. No. 4404 Diabase No. 14 lode.

An iron pipe 1-1/2 ins. in diam., 18 ins. above ground with brass cap mkd. C. 11-1-4560-D 14-4-4404.

The 1/4 sec. cor. of Secs. 13 and 24, T. 3 S., R. 13 E., G. & S. R. M., bears S.  $6^{\circ} 40'$  E., 1725.94 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.

Cor. No. 4 Sur. No. 2569A Black Hussar lode bears N.  $31^{\circ} 21' 30''$  W., 144.46 ft. dist.

Chains Feet	
	No local bearing objects or bearing trees available. Thence N. 89° 04' W.
300.00	Lode line; discovery point bears N. 2° 05' W., 48.00 ft. dist.
600.00	Cor. No. 2, identical with cors. Nos. 3, 4 and 1 Sur. No. 4404 Diabase No. 14, Diabase No. 13 and Diabase No. 10 lodes. An iron pipe 1-1/2 ins. diam., 18 ins. above ground with brass cap mkd. D 14-3- D 13-4- D 10-1-4404 - C 11-2-4560.
	No local bearing objects or bearing trees available. Thence N. 2° 05' E.
114.74	Intersect line 4-1 Sur. No. 2569A Black Hussar lode at a point from which cor. No. 4 bears S. 89° 53' E., 520.57 ft. dist.
749.00	Road; bears N. 31° E. and S. 31° W.
809.00	Road; bears N. 83° W. and S. 83° E.
1059.00	Road; bears N. 84° W. and S. 84° E.
1498.61	Cor. No. 3, identical with cors. Nos. 4, 2 and 3 Sur. No. 4404 Diabase No. 10, Diabase No. 7, and Diabase No. 8 lodes. An iron pipe 1-1/2 ins. diam., 18 ins. above ground with brass cap mkd. D 10-4- D 7-2- D 8-3-4404 C 11-3-4560.
	No local bearing objects or bearing trees available. Thence S. 89° 04' E.
300.00	Lode line; discovery point bears S. 2° 05' W., 1450.61 ft. dist.
471.94	Intersect line 3-4 Sur. No. 2569A Black Hussar lode, at a point from which cor. No. 4 bears S. 0° 04' W., 1376.36 ft. dist.
600.00	Cor. No. 4, identical with cor. No. 2 Sur. No. 4404 Diabase No. 8 lode. An iron pipe 1-1/2 ins. diam., 18 ins. above ground with brass cap mkd. D 8-2-4404 - C 11-4-4560.
	Thence S. 2° 05' W.
60.00	Road; bears S. 51° W. and N. 51° E.
890.00	Road; bears N. 47° W. and S. 47° E.
1498.61	Cor. No. 1, and place of beginning.

SURVEY NO. 4560

3.

Claims

## AREAS

Acres

Total area, Contact No. 11 lode	20.638
Area in conflict with Sur. No. 2569A Black Hussar lode	15.720

## LOCATION

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

The survey of the Contact No. 11 lode is identical with the respective location as marked on the ground. The survey of the Contact No. 11 lode is wholly within the location as marked on the ground. Cors. 1, 2, 3 and 4 are identical with cors. of the location.

## 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 is not less than \$500.00 and that said improvements are as follows:

No. 1 The discovery cut of the Contact No. 11 lode, the face of which being the discovery point, is on the lode line 48.00 ft. from a point on line 1-2, 300.00 ft. from cor. No. 1; 26.00 ft. wide, 10 ft. face, runs N. 53° W., 45 ft. and S. 53° E., 45 ft.  
Value, \$820.00.

## OTHER IMPROVEMENTS

None.

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.

## OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

Sur. No. 2569A Black Hussar lode: Cors. Nos. 2, 3 and 4 are 4"x4" posts firmly set and properly marked; 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.

<p>Chain</p>	<p>Sur. No. 4404, line 3-4 Diabase No. 14 lode; line 4-1 Diabase No. 10 lode; line 2-3 Diabase No. 8 lode were all checked and found correct as approved. Cors. were previously described.</p>
<p>Name</p> <p>Lee Cook</p>	<p>FIELD ASSISTANTS</p> <p>Capacity</p> <p>Chainman</p> <p>EXPENDITURES</p> <p>OTHER IMPROVEMENTS</p> <p>OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA</p>

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

March 29, 1963

I, OSCAR T. SMITH,  
Mineral Surveyor, hereby certify upon honor that in pursuance of an order received from the Office of  
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 CONTACT NO. 11 LODE  
(Lode, placer, or mill site)  
situate in Mineral Creek Mining District, Pinal County, Sec. 12  
T. 3 S., R. 13 E., G. & S. R. Meridian, Arizona, and  
(State)  
designated as Survey No. 4560, 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, State Office  
(Office)  
Phoenix, Arizona July 3, 1963  
(Place) (Date)

The foregoing field notes of mineral survey No. 4560, in Mineral Creek Mining District,  
Sec. 13, T. 3 S., R. 13 E., G. & S. R. 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.

*Fred J. Weiler*  
Fred J. Weiler  
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)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

March 28, 1903

JOHN T. SMITH

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

dated March 20, 1903, I have faithfully and correctly executed the survey of  
the mining claim of KENNEDY COPPER CORPORATION

known as the FOUNTAIN NO. 11 CLAIM  
(This place is well known)  
situated in Mineral Creek Mining District, Pinal County, Arizona

and W. H. HARRIS of Phoenix, Arizona

designated as the owner of said claim, which is represented in the foregoing field notes as having been  
executed by me and under my supervision, and that said survey has been made in strict conformity with said order,  
the plan of instructions for the purpose 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 instruments used  
upon or for the benefit of the claim were John T. Smith  
(This is a true copy of the original)

and that the character of the claim is fully stated in my report thereon, and that the character,  
extent, location and lateral extent are specified therein with particularity and full detail, and that no  
portion of the claim is in a lode or vein, and improvements are entitled to the same as are provided in the statute  
of Arizona upon any other claim.

John T. Smith  
Mineral Surveyor

CERTIFICATE OF APPROVAL

John T. Smith  
Mineral Surveyor

The foregoing field notes of mineral survey No. 11  
situated in Mineral Creek Mining District,  
Pinal County, Arizona

executed by John T. Smith  
Mineral Surveyor

under order dated March 20, 1903, having been critically examined and the necessary  
corrections made prior to their certification by the surveyor, the field notes and the survey forms described  
are hereby approved.

John T. Smith  
Mineral Surveyor

John T. Smith  
Mineral Surveyor

CERTIFICATE OF TRANSCRIPT

I hereby certify that the foregoing transcript of field notes of the above described mineral survey is  
a true copy of the original field notes.

John T. Smith  
Mineral Surveyor

John T. Smith  
Mineral Surveyor