

Form 4-683
(April 1959)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Mineral Survey Number

4591

State

Arizona

Land District

Arizona

FIELD NOTES

Of the Survey of the Mining Claim of *(Name & address of Claimant)*

Kennecott Copper Corp.
RFD #1, Box #30
Safford, Arizona

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

CONSISTING OF LOCATIONS NAMED AND LOCATED AS FOLLOWS

NAME OF LOCATION	DATE	
	LOCATED	AMENDED
Hex Ridge No. 3	3/7/56	

Mining District		County		Section
Lone Star		Graham		31
Township	Range	Meridian	Surveyed under order dated	
5 S.	27 E.	G. & S. R. B. & M.	3/27/62	
Survey commenced	Survey completed	Name of Mineral Surveyor		
10/17/62	10/21/62	Harvey W. Smith		

FIELD NOTES

Section

1571

Location

of Survey

Station

Continued on next page.

1571

100-52-100

Section

County

State

21

Greenlee

Arizona

1/13/52

0.00000

21

4

Name of Mineral Surveyor

Name of Recorder

100-52-100

100-52-100

SURVEY NO 4591

1

XXXXX
Feet

This survey was made with a K. & E. transit, No. 51591, with horizontal limb 5.5 ins. diam., having two double opposite verniers and full vertical circle 4.5 ins. diam., having one double vernier. The verniers read to one minute of arc. The instrument is equipped with a colored eye-shade to be attached for making direct observations on 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 horizontal-angles-right referred to the meridian established by direct observation on the sun. At 10:00 A. M. on Oct. 17, 1962 at Cor. No. 1 of the Hex Ridge No. 3 lode, latitude $32^{\circ} 56' 50.6''$ North, longitude, $109^{\circ} 36' 17.5''$ West, turning from a reference pt. about 600 ft. southeast clockwise to the sun in an east direction.

True bearing of reference pt.
S. $10^{\circ} 36' 11''$ E.

The lines were measured with a Lufkin "Highway" steel tape, 300 ft. in length graduated every ft. for 299 ft. and the remaining ft. graduated to tenths and hundredths. One additional ft. at the "0" end of the tape is also graduated in tenths and hundredths. The tape was compared to a standard and found to be 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 $12^{\circ} 45'$ East.

SURVEY NO. 4591

HEX RIDGE NO. 3 LODE

Beginning at Cor. No. 1 of the Hex Ridge No. 3 lode, identical with Cor. No. 2, Sur. No. 4456, Hex Ridge # 4 lode and Cor. No. 4 of the Hex Ridge #. 9 lode of the same survey.

Fd. a lead cap, 2 ins. diam., in a concrete mound, firmly set, mkd. USMS 4457 HR4 2 HR9 4 X; to which I add marks MS 4591 HR3 1. (This Cor. erroneously mkd. should be MS4456) from which

The South $\frac{1}{4}$ Cor. of sec. 31, T.5S., R.27 E., G. & S. R. B. & M., bears S. $24^{\circ} 22' 50''$ W., 1518.85 ft. dist.; an iron post, $\frac{3}{4}$ in. diam., 12 ins. above ground, with a brass cap, firmly set, properly mkd. and witnessed as described in the official record.

A mound of stones sets adjacent to the iron post.

Thence N. $10^{\circ} 36' 11''$ W.

300.0 Lode line; discovery pt. bears N. $79^{\circ} 07' 30''$ E., 160 ft. dist.

600.0 Cor. No. 2

SURVEY NO. 4591

2

Feet	
	Set a galvanized iron post, $\frac{3}{4}$ in. diam., 30 ins. long, in a 25 pound concrete and rock base, 18 ins. in the ground, with a brass cap, $2\frac{1}{2}$ ins. diam. firmly secured to the iron post, mkd. MS 4591 HR3 2 X; from which A mound of stones constructed adjacent to the iron post. Thence N. $79^{\circ}07'30''$ E.
50.00	Unimproved dirt road bears N. 65° W. and S. 60° E.
300.0	Right bank local drainage, 30 ft. wide, course N. 40° W.
1500.0	Cor. No. 3 Set a galvanized iron post, $\frac{3}{4}$ in. diam., 30 ins. long, in a 25 pound concrete and rock base, 18 ins. in the ground, with a brass cap, $2\frac{1}{2}$ ins. diam., firmly secured to the iron post, mkd. MS 4591 HR3 3 X; from which A mound of stones constructed adjacent to the iron post. Thence S. $10^{\circ}36'11''$ E.
300.0	Lode line; discovery pt. bears S. $79^{\circ}07'30''$ W., 1340 ft. dist.
600.0	Cor. No. 4 on line 2-3, Sur. No. 4456, Hex Ridge # 4 lode. Set a galvanized iron post, $\frac{1}{2}$ in. diam., 24 ins. long, in a 25 pound concrete and rock base, 14 ins. in the ground, with a brass cap, $2\frac{1}{2}$ ins. diam., firmly secured to the iron post, mkd. USMS 4591 HR3 4 X; from which A mound of stones sets adjacent to the iron post. Thence S. $79^{\circ}07'30''$ W.
1126.9	Left bank local drainage, 30 ft. wide; course, N. 20° W.
1212.0	Unimproved dirt road bears N. 15° W. and S. 40° E.
1500.0	Cor. No. 1 and the place of beginning.

SURVEY NO. 4591

AREAS

Total area, Hex Ridge No. 3 lode	Acres
	20.661

LOCATION

This survey is located in the SE $\frac{1}{4}$ Sec. 31, T.5S., R.27 E., G. & S. R. B. & M.

SURVEY NO. 4591

3

~~Check~~

Feet

The survey of the Hex Ridge No. 3 lode is identical with the respective location or amended location as marked on the ground.

EXPENDITURES

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

No. 1 The discovery pt. of the Hex Ridge No. 3 lode is on the lode line, 160 ft. from a pt. on line 1-2, 300 ft. from Cor. No. 1.

Value, None

No. 2 A pit, the SW Cor. of which bears N. 9° E., 240 ft. from Cor. No. 1 of the Hex Ridge No. 3 lode; 5x5 ft. in size, 7 ft. deep.

Value, \$125.

An interest in a common improvement described as follows:

A diamond drill hole on of a pattern of exploratory holes, which bears N. 41° W., 362 ft. from Cor. No. 4 of the Hex Ridge No. 3 lode; depth 1184 ft.

Value this hole, \$15,632.12

Value Apportioned the

Hex Ridge No. 3 lode \$500.00

The drilling program is being continued with additional holes on adjacent lodes.

Five hundred dollars or over has been expended in these improvements in such a manner as tends to the development of each lode of the survey subsequent to its location and to the time since which common ownership and contiguity have prevailed; therefore, \$500. of the total value of this common improvement is hereby credited to the Hex Ridge No. 3 lode.

No portion of or interest in this improvement has been credited heretofore as patent expenditure to any lode claim

OTHER IMPROVEMENTS

NONE

OTHER CORNER DESCRIPTIONS
AND SUPPLEMENTAL DATA

Sur. No. 4456, Hex Ridge No. 4 lode; Cor. No. 2 described above. Cor. No. 3 is a lead cap, 2 ins. diam. set in a concrete mound, properly mkd. and witnessed as described in the official record. Line 2-3 was found to be N. 79°07'30" E., 1501.94 ft. instead of N. 78°58'18" E., 1500 ft. as approved.

FIELD ASSISTANTS

Name
Richard Cleveland

Capacity
Chainman-Axeman

Chains		Foot
The survey of the Hex Ridge No. 3 ledge is identical with the respective location or extended location as marked on the ground.		
The improvements and the value of the labor and improvements made upon or for the benefit of each of the ledge locations embraced in said mining claim by the claimant or his grantors are as follows:	EXPLORATIONS	
The discovery pt. of the Hex Ridge No. 3 ledge is on the ledge line, 100 ft. from a pt. on line 1-2, 500 ft. from Cor. No. 1.	Value, None	No. 1
A pt. on the SW Cor. of which bears N. 9° E. 340 ft. from Cor. No. 1 of the Hex Ridge No. 3 ledge; 52 ft. in size, 7 ft. deep.	Value, None	No. 2
An interest in a common improvement described as follows:		
A diamond drill hole of a pattern of exploratory holes; which bears N. 41° W. 352 ft. from Cor. No. 4 of the Hex Ridge No. 3 ledge; depth 114 ft.	Value this hole, \$15.00 Value appraised the Hex Ridge No. 3 ledge, \$100.00	
The drilling program is being continued with additional holes on adjacent ledges.		
Five hundred dollars or over has been expended in these improvements in such a manner as to the development of each ledge of the survey adjacent to the location and to the time since which common ownership and continuity have prevailed; therefore, \$500.00 of the total value of this common improvement is hereby credited to the Hex Ridge No. 3 ledge.		
No portion of or interest in this improvement has been credited heretofore as patent expenditures to any ledge claim.		
OTHER IMPROVEMENTS	NONE	
OTHER COMMON DEVELOPMENTS AND SUPPLEMENTAL DATA		
S.W. Cor. 450 ft. Hex Ridge No. 4 ledge; Cor. No. 2 described above, Cor. No. 3 is 450 ft. S. 1/2 mi. dist. in a separate record, property held and witnessed as described in the official record. Line 2-3 was found to be N. 70° 07' 50" E., 1801.94 ft. instead of N. 72° 58' 13" E., 1500 ft. as approved.		
FIELD ASSISTANTS	Name Richard Cleveland	
Quantity	Quantity-Alexander	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

December 15 19 62

I, Harvey W. Smith,
Mineral Surveyor, hereby certify upon honor that in pursuance of an order received from the _____
Cadastral Engineer, at Phoenix, Arizona
dated March 27, 1962, I have faithfully and correctly executed the survey of
the mining claim of Kennecot Copper Corporation,
known as the Hex Ridge No. 3 Lode
(Lode, placer, or mill site)
situate in Lone Star Mining District Graham County, Sec. 31,
T. 5 S., R. 27 E., G. & S. R. B & Meridian, Arizona, and
(State)
designated as Survey No. 4591, 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 his 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.

Scottsdale Arizona
(Place)

Harvey W. Smith
Harvey W. Smith
(Mineral Surveyor)

CERTIFICATE OF APPROVAL

Bureau of Land Management, State Office
(Office)
Phoenix, Arizona April 8, 1963
(Place) (Date)

The foregoing field notes of mineral survey No. 4591, in Sec. 31
Arizona, T. 5 S., R. 27 E., G. & S. R. Meridian,
(State) executed by Harvey W. Smith, Mineral Surveyor,
under order dated March 27, 1962, 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 SURVEY

December 15, 1962

I, Harvey W. Smith

Assistant Surveyor, having verified upon record that in pursuance of an order received from the

Department of the Interior, Bureau of Land Management, at Washington, D.C.

dated March 27, 1962, I have faithfully and correctly examined the survey of

the mining claim of _____

known as the _____

located in the _____

State of _____

and _____

designated as Survey No. _____

located on the _____

the Bureau of Land Management, and that said survey has been conducted in accordance with said order

and that the survey of the mining claim is correct and true in all particulars and in the specific manner

described in the foregoing field notes, and I do further certify that the same are correct and true in all particulars

and that the same are correct and true in all particulars and in the specific manner described in the

foregoing field notes, and I do further certify that the same are correct and true in all particulars

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and that the same are correct and true in all particulars and in the specific manner described in the

CERTIFICATE OF APPROVAL

The foregoing field notes are correct and true in all particulars and in the specific manner

described in the foregoing field notes, and I do further certify that the same are correct and true in all particulars

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foregoing field notes, and I do further certify that the same are correct and true in all particulars

CERTIFICATE OF TRANSMITTAL

I certify that the foregoing transcript of field notes of the above described mining claim is a true copy of the original field notes.



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
State Office
3022 Federal Building
Phoenix, Arizona 85025

RECEIVED
B.L.M. LAND OFFICE

DEC - 4 1970

10:00 A.M.
PHOENIX, ARIZONA

December 2, 1970

Memorandum

To : Land Office Manager, Arizona
From : State Director, Arizona
Subject: Mineral Survey No. 4591

This memorandum cancels the survey of the HEX RIDGE No. 3 lode claim of Mineral Survey No. 4591.

The following notation should be made on the plat of Mineral Survey No. 4591:

"Survey of HEX RIDGE No. 3 lode claim cancelled by State Director's memorandum dated December 2, 1970."

A notation of this cancellation should also be made on the Mineral Mining District Sheet.

The plat and field notes should remain in the files. This memorandum should be made a part of the original field notes.

By Relinquishment of Mining Claims, dated July 8, 1970, the claimant, Kennecott Copper Corporation, relinquished and abandoned all right, title and interest in the HEX RIDGE No. 3 lode claim.

The land embraced by the HEX RIDGE No. 3 lode claim is scheduled for disposal under Private Exchange Application AR 034102, filed by Kennecott Copper Corporation, under provisions of Section 8 of the Taylor Grazing Act.

cc: Director

RECEIVED
DEC 4 1970

RECEIVED
BUREAU OF LAND MANAGEMENT
FEDERAL BUREAU OF SURVEY
3015 W. 9TH AVENUE
DENVER, COLORADO 80202



TO: [Illegible]

FROM: [Illegible]

SUBJECT: [Illegible]

This document is a copy of the original document. It is being provided to you for your information. The original document is being retained in the Bureau of Land Management files. If you have any questions, please contact the Bureau of Land Management at 3015 W. 9th Avenue, Denver, Colorado 80202.

A copy of this document is being provided to the Bureau of Land Management, Denver, Colorado. The Bureau of Land Management is the lead agency for the management of public lands. It is responsible for the protection, preservation, and wise use of public lands. The Bureau of Land Management is also responsible for the management of public lands in the State of Colorado. The Bureau of Land Management is currently reviewing the proposed action and will advise you of the results of its review.

The proposed action is being reviewed by the Bureau of Land Management, Denver, Colorado. The Bureau of Land Management is the lead agency for the management of public lands. It is responsible for the protection, preservation, and wise use of public lands. The Bureau of Land Management is also responsible for the management of public lands in the State of Colorado. The Bureau of Land Management is currently reviewing the proposed action and will advise you of the results of its review.

[Handwritten signature]