

4-683

MINERAL SURVEY No. 3941

Arizona Land District.

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

The Arizona Copper Company

KNOWN AS THE

ALASKA EAST EXTENSION Lode

Greenlee Gold Mountain Mining District,

Greenlee County, Arizona.

Section 28, Township 3 S., Range 29 E.

Surveyed under instructions dated March 21, 19 24

by T. N. Stearns
U. S. Mineral Surveyor.

Claim located See location notice., 19

Survey commenced April 24, 19 24

Survey completed April 26, 19 24

Address of claimant Phelps Dodge Corporation, Morenci, Ariz.

DATES OF AMENDED LOCATIONS.

See location notice

Feet.	MINERAL SURVEY NO. 3941
	ALASKA EAST EXTENSION LODE.
	Beginning at Cor. No. 1
	A limestone rock 4 x 6 ins. 10 ins. above ground, set 12 ins. in the ground, chiseled with cross (x) A E E-1-3941, with md of stone 3 1/2 ft. base by 3 ft. high alongside; whence the S. 1/4 Cor. Sec. 28, T. 3 S., R. 29E., brs. S. 46° 48' W., 1107.4 ft. Loc. Mon. brs. S. 27° 08' W., 120 ft.
	No other bearings are available.
	Thence S: 79° 37' E. Va. 13° 30' E.
1.0	To S. end center.
	A pine post 3 x 4 ins. 4 ft. high, set firmly in the ground and surrounded with md of stone 3 1/2 ft. base by 3 ft. high Scribed S. Cr. A E E.
	Loc. Mon. brs. S. 20° 06' W., 115.0 ft.
23.0	To Cor. No. 2. On line 3-4 Sur. No. 2484 Little Stella Lode, claimant herein at N. 29° 35' E. 119.5 ft. from Cor. No. 3, also on line 7-8 Sur. No. 1037 Alaska lode, claimant herein, at S. 5° 37' W., 526.9 ft. from Cor. No. 7
	A limestone rock 4 x 10 ins., 12 ins above ground, set 12 ins. in the ground, chiseled with cross (x) A E E-2 -3941 with md of stone 3 1/2 ft. base by 3 ft. high alongside.
	Loc. Mon. brs. S. 29° 35' W., 119.5 ft.
	No other bearings are available.
	Thence N: 29° 35' E. Va. 13° 30' E.
556.11	To Cor. No. 3, identical with Loc. Mon. and Cor. Nos. 1, Sur. Nos. 2484 and 3100 Stella No. 2 lode.
	A pine post 4 x 6 ins. showing 2 1/2 ft. above ground, set firmly in the ground, scribed S 2-1-3100, 1-2484, and A E E-3-3941 with md. of stone alongside.
	U. S. L.M. No. 2 brs. S. 46° 07' E., 2260.0 ft.
	No other bearings are available.
	Thence N. 79° 37' W. Va. 13° 30' E.
115.0	To N. end center, identical with Loc. Mon.

Feet.

MINERAL SURVEY No. 3941

ALASKA EAST EXTENSION Lode.

A pine post 4 ins. sq by 4 ft. high set firmly in the ground and surrounded with md of stone 3 1/2 ft. base by 3 ft. high, Scribed N. Cr. A. E. E.

226.68 To Cor. No. 4, identical with Loc. Mon. and Cor. No. 7 Sur. No. 1087 Alaska lode. On lines 1-2 Sur. Nos. 2484 and 3100 Stella No.2 lode.

A pine post 4 x 6 ins. 4 ft. high, set firmly in the ground and surrounded with md of stone 3 1/2 ft. base by 3 ft. high, Scribed 1087-V11, and A E E-4- 3941.

No bearings are available.

Thence S. 8° 07' W. 7.
Va. 13° 30' E.

525.61 To Cor. No. 1, the place of beginning.

LODE Line.

As near as can be determined from the present developments, the vein of the location embraced in this claim, extend as follows from its discovery point: -

135 ft. S. 20° 05'40" W., and 397.82 N. 20° 05'40" E.

AREA.

	Acres.
Total area Alaska East Extension lode -----	1.505
Area in conflict with:-	
Sur. No.1087 Alaska lode-----	0.138 ✓

The survey of the lode of this location is identical with the original location except as shown in the foregoing field notes.

LOCATION.

This survey is located in the S.E. 1/4 Sec. 28, T. 3 S., R. 29 E. G. & S. R. M.

MINERAL SURVEY NO. 3941

ALASKA EAST EXTENSION Lode.

EXPENDITURE OF FIVE HUNDRED DOLLARS.

I certify that the value of the labor and improvements made upon or for the benefit of the location embraced in said mining claim for the claimant or its grantors is not less than five hundred dollars and that said improvements consist of:

No. 1 the discovery shaft, on the lode line, 135 ft. from a point on line 1-2, 21 ft. from Cor. No. 1, 4 x 6 ft. 8 ft. deep.
Value \$80.0

No. 2 A cut, the mouth of which hrs. from Cor. No. 3 S. 31°15' W., 360 ft., 5 ft. wide, 15 ft. face running S. 70° W., 15 ft. to face, from face is a tunnel 4 x 6 ft. running S. 70° W. 5 ft. to face.

Value Cut and tunnel \$ 150.0

No. 3 A tunnel, the mouth of which hrs. from Cor. No. 3 S. 33°15' W. 227. ft. 4 x 6 ft. running N. 60° W., 100 ft. to face.

Value \$1000.0

INSTRUMENT.

This survey was made with a Gurley mountain transit, the courses were deflected from the true meridian as determined by direct solar observations. The distances were measured with a 500 ft. steel tape.

REPORT.

The lode line of the location of this claim was run directly upon the ground and the corners were established by running around the claim.

The S. 1/4 Cor. Sec. 38, T. 3 S. R. 29 E. is an iron pipe with brass cap on top, stamped S. 28, S 33.

Sur. No. 2484 and 3100 Little Stella and Stella No. 2 lodes.

All corners consist of pine posts 4 x 6 ins. properly set and scribed with the number of corner and the survey.

Sur. No. 1087 Alaska lode. Cor. No. 7 is a pine post 4 ins. Sq by 4 ft. high properly set and scribed with the number of the corner and the survey. All that remains of Cor. No. 8 is a nd of stone.

Line 7-8 fails to furnish the course and distance as approved

(S 10°54' W., 1466.9 and same is properly given in these field notes.

MINERAL SURVEY NO. 3941
ALASKA EAST EXTENSION Lode.

ADJOINING CLAIMS.

On the North by Sur. Nos. 2484 and 3100 Stella No. 2 lode.
On the East by Sur. No. 2484 little Stella lode.
On the West by Sur. No. 1087 Alaska lode.

do not include in transcript.
SOLAR OBSERVATION.

Direct solar observation taken Saturday, April 26, 1924 at
8 AM Solar time. Sun bisected, Lat. 33° 08' - Lon. 109° 29'

Difference in time 3 h 18m.

Apparent declination 13° 30' 49.8" ✓

Dec'l ----- $\frac{2\ 37\ \checkmark}{13^{\circ}33'26.8''\ \checkmark}$

P = 90 - Dec'l = 76° 26' 33" ✓

L = 33° 08' ✓

H = 34° 08' ✓

P = 76° 26' 33" ✓

$\frac{2}{\frac{143^{\circ}42'33''}{\frac{71\ 37\ 16}}{16}}\ \checkmark$

$$\sin \frac{1}{2} A = \sqrt{\frac{\sin(S-L)(S-H)}{\cos L \cos H}}$$

S-L = 38° 45' 16" ✓ 9.7952458 ✓

S-H = 37° 43' 16" ✓ 9.7866199 ✓

0.0770666 ✓

0.0821092 ✓

2) $\frac{19.7420415}{9.8710208}$ ✓

9.8710208 - 47° 59' 30" ✓ - 1/2 A.

95° 59' ✓ - A.

180° - 95° 59' = S. 84° 01' E = Brg. of Sun.

$\frac{66^{\circ}24'}{150^{\circ}25'}$ Ang. to left from Sun.

150° 25' ✓

180° - 150° 25' = N. 29° 35' E = Course of line.

Set up at Cor. No. 2, F S to Cor. No. 3

FINAL OATHS FOR SURVEYS.

LIST OF NAMES.

A list of the names of the individuals employed by T.N. Stevens
 United States Mineral Surveyor, to assist in running, measuring, and marking the lines, corners, and
 boundaries described in the foregoing field notes of the survey of the mining claim of _____
 _____ The Arizona Copper Company _____
 known as the ALASKA EAST EXTENSION Lode _____
 and showing the respective capacities in which they acted.

_____I.P. Campbell_____, *Chainman.*
 _____, *Chainman.*
 _____, *Axman.*
 _____, *Flagman.*

FINAL OATHS OF ASSISTANTS.

We, I. I.P. Campbell
 and _____, do solemnly swear that we assisted _____
T.N. Stevens, United States Mineral Surveyor, in marking the corners and surveying
 the boundaries of the mining claim of The Arizona Copper Company

 known as the ALASKA EAST EXTENSION Lode
 represented in the foregoing field notes as having been surveyed by said mineral surveyor and under his
 direction; and that said survey has been in all respects, to the best of our knowledge and belief, faithfully
 and correctly executed, and the corner and boundary monuments established according to law and the instruc-
 tions furnished by the United States Surveyor-General for Arizona.

I P Campbell, *Chainman.*
 _____, *Chainman.*
 _____, *Axman.*
 _____, *Flagman.*

Subscribed and sworn to by the above-named persons before me this 6th
 day of May, 1924

[Signature]

Notary Public

FINAL OATH OF U. S. MINERAL SURVEYOR.

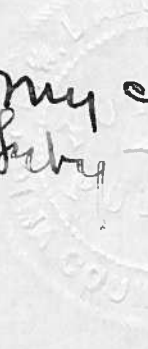
I, T. N. Stevens, U. S. Mineral Surveyor, do solemnly swear that, in pursuance of instructions received from the United States Surveyor General for Arizona, dated March 21 1924, I have, in strict conformity to the laws of the United States, the official regulations and instructions thereunder, and the instructions of said Surveyor General, faithfully and correctly executed the survey of the Mining Claim of The Arizona Copper Company, known as the ALASKA EAST EXTENSION Lode, situate in Greenlee Gold Mountain Mining District, Greenlee County, Arizona, in Section 28, Township No. 3 S., Range No. 29 E. G. & S. R. M., and designated as Survey No. 3941, as represented in the foregoing field notes, which accurately show the boundaries of said mining claim as distinctly marked by monuments on the ground, and described in the attached copy of the location certificate, which was received by me from the Surveyor General with said instructions, and that all the corners of said survey have been established and perpetuated in strict accordance with the law, official regulations and instructions thereunder; and I do further solemnly swear that the foregoing are the true and original field notes of said survey and my report therein, and that the labor expended and improvements made upon said mining claim by claimant or its grantors are as therein fully stated, and that the character, extent, location, and itemized value thereof are specified therein with particularity and full detail, and that no portion of said labor or improvements so credited to this claim has been included in the estimate of expenditures upon any other claim.

T. N. Stevens
U. S. Mineral Surveyor.

Subscribed and sworn to by the said T. N. Stevens
U. S. Mineral Surveyor, before me R. W. Saegworthy a Notary Public
we and for Pinal County Arizona this 20th
day of June, 1924

R. W. Saegworthy
Notary Public Pinal Co. Ariz

my own eff
July 19 1928



(4-688.)

U. S. SURVEYOR GENERAL'S FINAL CERTIFICATE ON
FIELD NOTES.

DEPARTMENT OF THE INTERIOR,
OFFICE OF U. S. SURVEYOR GENERAL,

Phoenix, Arizona.

July 25, 1924.

I, U. S. Surveyor General for District of Arizona, do hereby certify that the foregoing transcript of the Field Notes, return and approval of the Survey of the mining claim of

The Arizona Copper Company

, known as the ALASKA EAST EXTENSION lode

, situate in Greenlee Gold Mountain

Mining District, Greenlee County,

Arizona, in Section 28, Township No. 3 S.,

Range No. 29 E., and designated as Survey

No. 3941, has been correctly copied from the originals on file in this office; that said Field Notes furnish such an accurate description of said mining claim as will, if incorporated into a patent, serve fully to identify the premises, and that such reference is made therein to natural objects or permanent monuments as will perpetuate and fix the locus thereof.

And I further certify that five hundred dollars' worth of labor has been expended or improvements made upon said mining claim by claimant or its grantors, and that said improvements consist of 1 shaft, 1 cut and 2 tunnels. total value \$1230.

and that no portion of said labor or improvements has been included in the estimate of expenditures upon any other claim.

I further certify that the plat thereof, filed in the U. S. Land Office at Phoenix, Arizona is correct and in conformity with the foregoing Field Notes.

Charles M. Donohoe

United States Surveyor General for Arizona.

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**SURVEYOR GENERAL'S CERTIFICATE OF APPROVAL OF FIELD NOTES
AND SURVEY OF MINING CLAIM**

**DEPARTMENT OF THE INTERIOR
OFFICE OF U. S. SURVEYOR GENERAL**

..... Phoenix, Arizona

..... July 25, 1924

I, U. S. Surveyor General for District of Arizona

do hereby certify that the foregoing and hereto attached Field Notes and Return of the Survey of the
Mining Claim of

..... The Arizona Copper Company

....., known as the

..... ALASKA EAST EXTENSION lode

situate in Greenlee Gold Mountain mining district,

..... Greenlee County, Arizona

in Section 28, Township No. 3 S., Range No. 29 E.

....., designated as Survey No. 3941

executed by T. N. Stevens, U. S. Mineral

Surveyor, April 24 - 26, 1924, under my instructions dated

..... March 21, 1924, have been critically examined and the necessary

corrections and explanations made, and the said Field Notes and Return, and the survey they describe,

are hereby approved. The certified copy of the location certificate filed by the applicant for survey is

on file in this office and a true copy of said certified copy of said location certificate is included and

made a part of the transcript of the field notes.

Charles M. Donohoe

U. S. Surveyor General for Arizona