

JUL 17 1913

(4-683.)

Mineral Survey No. 3031

Lot No. \_\_\_\_\_

Arizona Land District.

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

Ray Consolidated Copper Company

KNOWN AS THE

Behrens

Mineral Creek Mining District,

Pinal County, Arizona

Approximately Sections 14 & 15, Township 3 S, Range 13 E UMSUR.

Surveyed under instructions dated November 21, 1912,

by Clair C Thompson,  
U. S. Deputy Mineral Surveyor.

Claim located See Location Notice, 19

Survey commenced May 6, 1913

Survey completed May 8, 1913

o 6-160

Atorney  
Gen S Kildreth  
Phoenix  
Arizona

## SURVEY NO. 3031.

## BEHRENS

## FEET

Beginning at Corner No. 1, a gray porphyry stone 10 x 13 x 24 inches, set 12 inches in the ground, chiseled B-1, 3031, X on top at exact corner point; mound of stone along side. From which U.S.M.M. No. 1, bears N.  $74^{\circ}31'35''$  East 3728.22 feet. Loc. mon. a post four inches square, 3 feet above the ground, marked B-1 in mound of stone, bears S.  $67^{\circ}22'42''$  E. 16 feet.

No brs. available,

Thence N.  $67^{\circ}22'42''$  W.

244.00 Gulch bears East

290.20 S.E.C. A granite stone 5 x 13 x 27 inches, set 10 inches in the ground on bed rock, chiseled B-SEC, 3031 X at exact corner point. Loc. Mon. a mound of stone, bears S.  $67^{\circ}22'42''$  E. 5 feet.

No brs. available.

650.68 To Corner No. 2, a slate stone 5 x 14 x 24 inches, set 12 inches in the ground, chiseled B-2, 3031, X at exact corner point, mound of stone along side. Loc. mon. a post 4 inches square, 3 feet above the ground, marked BL-2, bears N.  $71^{\circ}13'$  W. 42.7 feet.

No. brs available.

Thence N.  $11^{\circ}02'42''$  W.

80.00 Gulch bears East.

1489.05 To Corner No. 3 on line 2-3 of the York lode, Survey No. 1467A. A hard schist stone 8 x 9 x 27 inches set 12 inches in the ground, chiseled B-3, 3031, X at exact corner point, mound of stone along side. S. side center mon. of York lode, Survey No. 1467A, a post 4 inches square, 3 feet above the ground, set in mound of stone, bears N.  $67^{\circ}22'42''$  W. 49.7 feet, post marked CSS-Y. Loc. mon. a post 4 inches square 3 feet above the ground marked 3/BL.

FEET	Brs. N. $67^{\circ}22'42''$ W. 61.6 feet. No other brs. available. Thence S. $67^{\circ}22'42''$ E.
	Along line 3-2 of the York lode, Survey No. 1467A.
360.48	N.E.C. A porphyry stone 8 x 9 x 24 inches, set 12 inches in the ground, chiseled B-N.E.C., 3031, X on top at exact corner point. Mound of stone alongside. Loc. mon. a mound of stone bears N. $67^{\circ}22'42''$ W. 31 feet. No other brs. available.
489.00	A 4 inch pipe line brs. S.S.E. towards discharge end.
650.68	To Corner No. 4, identical with Loc. and Corner No. 2, York lode, Survey No. 1467 A. on line 2-3 of the Mesa lode, Survey No. 2568A. This corner is a post 4 inches square,  3 feet above ground in mound of stone scribed Y-2, 1467A. This being in a dilapidated condition and liable to destruction by reason of the proximity of a large settlement of Mexicans by whom a number of wooden monuments in this vicinity has been destroyed, I replaced same with a porphyry stone 8 x 10 x 24 inches, set 12 inches in the ground, chiseled Y-2, 1467A and B-4, 3031, X at exact corner point. Mound of stone alongside. No brs. available.  Thence S. $11^{\circ}02'42''$ E.
465.6	4 inch pipe line bears S. SE. towards discharge end.
669.00	Sharp ridge brs. SE.
778.00	Corner 2, Mesa lode, Survey No. 2568A, identical with corner 3 of Emden lode, Survey No. 2826, thence along line 3-2 said Emden lode.
1092.00	Gulch brs. E.
1378.00	Corner No. 2 Emden lode, Survey No. 2826, a post 4 inches square 3 feet above ground, scribed E.2, 2826 in

FEET

mound of stone.

1388.00

Deep gulch brs. E.

1489.05

Corner No. 1, place of beginning.

Vein.

The presumed course of the vein is S.11° 02' 42" E.612.2 ft. and N.11° 02' 42" W. 876.85 ft. from the discovery.  
A R E A.

Total area Behrens lode. . . . . 18,512 acres.

L O C A T I O N.

This survey is located in approximately Secs 14&15, T. 3 S. R. 13 E., G. & S.R. B. & M., unsurveyed, in the Mineral Creek Mining District, Pinal County, Arizona.

I M P R O V E M E N T S.

No. 1- Discovery-,-Open cut 4 x 20 x 10ft and tunnel 4 x 6 x 20 ft. from the common face of which the S.E.C. bears S. 11°02'42"E. 612.2 feet and the N.E.C. bears N. 11°02'42"W. 876.85 feet, bearing of open cut and tunnel N. 25°20" W.

VALUE . . . . . \$350.00

No. 2, Open cut 4 x 25 x 12 feet and tunnel 4 x 6 x 40 feet, the common face of which bears N. 18°42'W. 752 feet from Corner No. 1, bearing of open cut and tunnel N. 72° 10' W.

VALUE . . . . . \$450.00

No. 3, Open cut 4 x 16 x 10 feet, and tunnel 4 x 6 x 16 feet, the common face of which bears S. 48°26'W. 461 feet from ~~common face of which bears S. 48°26'W. 461 feet from~~ corner No. 4, bearing of open cut and tunnel S. 68°45'W.

VALUE . . . . . \$150.00

I N S T R U M E N T.

This Survey was made with a Buff & Buff transit, No. 3283, having horizontal and vertical circles reading by verniers to single minutes. The distances were measured with 100 and 500 foot steel tapes.

FEET

## M E R I D I A N.

I determined the true meridian by an observation on Polaris at its eastern elongation on May 6, 1913 at approximately 4:50 a.m., Mountain Time, using  $1^{\circ}22'30''$  as the azimuth of the star.

## M A G N E T I C V A R I A T I O N.

The magnetic variation is  $13^{\circ}50'$  E. at all corners.

## D I S C R E P A N C I E S.

The discrepancies between this survey and the adjoining surveys are due to errors in the latter.

## A D J O I N I N G C L A I M S.

This claim is bounded on the north by the York lode claim, Survey No. 1467A; on the east by the Mesa lode claim, Survey No. 2568A, and the Emden lode claim, Survey No. 2826 on the South and West by public land of the U.S. approximately Sec. 15, T.3 S. R. 13 E., G. & S.R. B. & M., unsurveyed.

*Oliver C. Thompson*  
*U.S. Mineral Surveyor*

# FINAL OATHS FOR SURVEYS.

## LIST OF NAMES.

A list of the names of the individuals employed by Oliver C. Thompson

United States ~~Deputy~~ 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

Ray Consolidated Copper Company  
known as the Behrens

and showing the respective capacities in which they acted.

E. Fay, Chainman.

Algie Smith, Chainman.

\_\_\_\_\_, Axman.

\_\_\_\_\_, Flagman.

## FINAL OATHS OF ASSISTANTS.

We, E. Fay

and Algie Smith, do solemnly swear that we assisted Oliver C.

Thompson, United States Deputy Mineral Surveyor, in marking the corners and surveying the boundaries of the mining claim of

Ray Consolidated Copper Company  
known as the Behrens

represented in the foregoing field notes as having been surveyed by said deputy 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 instructions furnished by the United States Surveyor-General for

Arizona

Algie Smith, Chainman.

E. Fay, Chainman.

\_\_\_\_\_, Axman.

\_\_\_\_\_, Flagman.

Subscribed and sworn to by the above-named persons before me this 8th

day of May, 1913.

G. O. Nolan

Notary Public

FINAL OATH OF U. S. MINERAL SURVEYOR.

I, Oliver C. Thompson, U. S. Mineral Surveyor,  
do solemnly swear that, in pursuance of instructions received from the United States  
Surveyor General for Arizona, dated  
November 21, 1912, 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 Ray Consolidated Copper Company  
, known as the  
Behrens  
situate in Mineral Creek Mining District,  
Patrol County, Arizona, <sup>approximately</sup> in Sections  
14 & 15, Township No. 3 S, Range No. 13 E Gr S R Br M, Uns,  
and designated as Survey No. 3031, 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 per-  
petuated in strict accordance with the law, official regulations and instructions there-  
under; 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.

Oliver C. Thompson  
U. S. Mineral Surveyor.

Subscribed and sworn to by the said Oliver C. Thompson  
U. S. Mineral Surveyor, before me R. M. Turkey  
Notary Public this 27th  
day of June, 1913

R. M. Turkey  
Notary Public

My Commission expires  
Feb 15, 1916

NOTICE OF LOCATION.

NOV 21 1913

Notice is hereby given that the BEHRENS Mining Claim was located by Charles A. Behrens, and Richard Behrens, on this 1st day of January 1906, for mining purposes. Said claim is 1,500 feet in length along this vein or deposit of mineral-bearing rock in place, and 300 feet in width on each side of the center of said vein or deposit, from end to end of said claim.

The general course of this claim is Northerly and Southerly and it is situated in the Mineral Creek Mining District, Pinal County, Arizona, about 3/4 mile in a westerly direction from the Ray Mill, on Mineral Creek, and runs along the west end line of the Extention, the west line of the Ida & S-W- side of York lode.

This claim runs from the discovery monument, or stake, on which this notice is posted, 700 feet in a Southerly direction to the South center end monument, or stake, and 800 feet in a Northerly direction from the aforesaid location monument, or stake, to the North center end monument, or stake, and is also marked by two corner monuments, or stakes, at each end of said claim, one on each side of and 300 feet from the center end monuments, or stakes, making the claim in the form of a parallelogram.

Charles A. Behrens

Richard J. Behrens, Locators.

This claim is a re-location of an abandoned mining claim known as the Behrens.

Filed and recorded at at request of A. Behrens on March 23, 1906 at 9 A. M.

E. B. Devine, Recorder

By N. N. Bartleson, Deputy.



State of Arizona, )  
                          ( ss.  
County of Pinal. )

I, G. F. Watson, County Recorder in and for the County of Pinal, State of Arizona, do hereby certify that the within and foregoing is a full, true and correct copy of the BEHRENS Mining Claim, as the same appears of record in my office in Book No. 24 of Records of Mines, at pages 5 and 6; that I have compared the same with the original record, and that the same is a true transcript, and of the whole thereof.

Given under my hand and seal of office this 13th day of November, A. D. 1912.

  
G. F. Watson  
County Recorder.

4-688.

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

Department of the Interior,

OFFICE OF U. S. SURVEYOR-GENERAL,

Phoenix, Arizona,

September 18, 1913

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

RAY CONSOLIDATED COPPER COMPANY

known as the BEHRENS

situate in MINERAL CREEK

Mining District, PINAL County, ARIZONA.

in Sections Approx. 14 & 15, Township No. 3 S., Range No. 13 E., Unsur., and designated as Survey No. 3031, 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 3 cut and tunnels, total value \$950.00.

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.

Frank S. Ingalls,

United States Surveyor-General for Arizona.

4-687.

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, .....

..... September 18, ....., 19 13.

I, U. S. Surveyor-General for Arizona

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

RAY CONSOLIDATED COPPER COMPANY

....., known as the

BEHRENS

situate in MINERAL CREEK ..... mining district,

PINAL

County, .....

ARIZONA

in Sections Approx. 14&15, Township No. 3 S. ....., Range No. 13 E., Unsur.

....., designated as Survey No. 3031

executed by Oliver C. Thompson ....., U. S. ~~Deputy~~ Mineral

Surveyor, May 6-8, 1913 ....., 190 ....., under my instructions dated

November 21, 1912., 190 ....., have been critically examined and the necessary cor-

rections and explanations made, and the said Field Notes and Return, and the Survey they describe,

are hereby approved. A true copy of the copy of the location certificate filed by the applicant. for

survey is included in the field notes.

*Frank S. Ingalls*

U. S. Surveyor-General for Arizona.