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LOT NO. 441.....

SURVEY NO. 766.....

Field Notes

of the survey of the

Black Mesa

mining Claim

Situate in Eureka Mining district

County of Yavapai and in Sec. _____, Tp. 15-N

Range 8W, of the Gila and Salt River Meridian.

ARIZONA.

Claimed by John Larler

Survey executed by C.B. Foster D. S.

Under instructions dated February 24th 1886.

Survey commenced March 17th 1886.

Survey completed March 17th 1886.

PRELIMINARY OATHS,

FOR SURVEYS OF MINING CLAIMS AND MILL-SITES.

WE, J. M. Howard and Daniel Hotz

do solemnly swear that we will faithfully execute the duties of Chain Carriers; that we will level the chain upon uneven ground, and plumb the tally pins, whether by sticking or dropping the same; that we will report the true distance to all notable objects, and the true length of all lines that we assist in measuring, to the best of our skill and ability.

J. M. Howard
Daniel Hotz

W. O. Foster

SWORN to and subscribed before me, this 9th day

of March 1886

W. O. Foster

Notary Public

I, J. M. Howard

do solemnly swear that I will well and truly perform the duties of

Assessor

according to instructions given me.

to the best of my skill and ability.

J. M. Howard

W. O. Foster

SWORN to and subscribed before, me this 9th day

of March 1886

W. O. Foster

Notary Public

Foot

Field Notes

of the Survey of the
Black Mesa Mining Claim
in the Eureka Mining District
Yavapai County, Arizona.

Claimed by John Lawler

Surveyed by C.P. Foster U.S.
Deputy Mineral Surveyor under
instructions from the Surveyor
General of date July 24 1886

Survey Commenced March 17, 1886

" Completed " 17, 1886

Description of Survey.

Beginning at the Initial Mon.
Mentioned in location Notice
and marking the middle of
Claim where I set a volcanic
Stone 20 x 12 x 10 ins 1 ft in ground
and surrounded same with mound
of stones. Stone marked BM 1 M
U.S. Min Mon N^o 1 base S 21^o E
4190 feet.

Thence S 10^o W
wa 14^o 29' East

500 To loc mon for southerly end
center of claim where I mark
a + at point of Cox and under
same MP N^o 1 on the N face
of quartzite dike. On the
flat surface of dike directly
over + is built mound of stones,
said dike is 12 ft square
by 6 ft high.

Sub

Thence S 80° E

va 140° 29' East

- 48 Intersect Northerly end line
of Natural Point Mining Claim
S 75° 50' W 250 feet from
N end Center Mon. (Stone NP N° 4)
- 300 To point where I set a volcanic
rock 28 x 20 x 12 ins 1 ft in
ground and surrounded
same with mound of stones
Rock marked BM N° 2. No loc. mon. found
- Thence N 10° E

va 140° 29' East

- 110 Intersect Northerly end line
of Natural Point Mining Claim
N 75° 50' E 27 ft from N end
Center Mon (Stone NP N° 4)
- 1020 To point where I set volcanic
rock 20 x 20 x 12 ins 1 ft in ground
and surrounded same with
mound of stones. Rock marked
BM N° 3. No loc. mon. found
- Thence N 80° E

va 140° 29' East

- 300 To loc. mon. for northerly end
center of claim where I mark
volcanic rock in place projecting
above ground 2 x 2 x 2 ft, BM
N° 4 and on N side build mound
of stones.

Thence N 80° E (same course)

va 140° 29' East

- 300 To point where I set a limestone
18 x 16 x 16 ins 1 ft in ground and
surrounded same with mound
of stones. Stone marked BM N° 5
Original loc. mon. bears N 8°
E 13 ft

Thence S 10° W

va 140° 29' East

- 1020 To loc mon where I set a lime
stone 24 x 12 x 12 ins and surrounded
same with mound of stones.

Stone marked B.M. 1106
 Thence S 80° E

7 a 14° 29' East

30. To Monument ^W B.M. 1101 place
 of beginning on out boundaries
 of claim

Area

Total Area of claim	14.05 Acres
Less conflict with Natural Point Mining Claim	32 "
Net area of claim	13.73 Acres

Location

This claim is located on E. bank
 of Copper Creek in Coconino Mining
 District, Yavapai County, Arizona
 and is on unreserved land

Improvements

Made upon this claim by claimant
 or grantors consist of a Cut 20
 ft long by 6' x 4'. N 10° E 85 ft from
 Stone B.M. 1106. A Cut 6' x 6' x 6 ft
 N 10° E 110 ft from Stone B.M. 1106
 A Shaft 22 ft deep by 6' x 4' N
 15° E 140 ft from Stone B.M. 1106.
 A Cut 20 ft long by 8' wide by 6' deep
 N 10° E 160 feet from Stone B.M. 1106
 And I hereby certify that the value
 of said improvements exceeds
 the sum of five hundred
 dollars.

There have been no improvements
 made by other parties on this claim

Instruments used a Gurley
 Transit and 50 ft Steel Chain

Tax and Causus determined
 by observation of Polaris
 March 17th 1886 C. P. Foster
 U.S. Deputy Mineral Surveyor

AFFIDAVIT OF FIVE HUNDRED DOLLARS IMPROVEMENTS.

We, *F. M. Howard* and *Daniel Katz*
of lawful age, being first duly sworn according to law, depose and say that we are acquainted with the
Black Mesa
mining claim, situated in *Quinn*
Mining District, *Yavapai* County, Arizona
Territory, for which *John Lawrence* and
he made application for survey prior to application for patent under the provisions of the Act of
Congress approved May 10, 1872, and that the labor done and improvements made thereon by the appli-
cant and *his* grantor exceed Five Hundred Dollars in value, and further that we are not per-
sonally interested in said mine.

F. M. Howard
Daniel Katz

TERRITORY OF ARIZONA,
County of *Yavapai* } SS.

W. C. Foster

SWORN to and subscribed before me, this *20th* day
of *March* 188*6*

W. C. Foster
Notary Public

FINAL OATHS FOR SURVEYS OF MINING CLAIMS AND MILL SITES.

A LIST of names of individuals employed to assist in running, measuring, or marking the lines and corners described in the foregoing field-notes of the survey of

the Black Mesa Mining Claim located in Eureka Mining district Yavapai County, Arizona, showing the respective capacities in which they acted.

- F. M. Howard Chainman
David Stutz Chainman
F. M. Howard Axeman.
Flagman.

WE hereby certify that we assisted U. S. Deputy Surveyor in surveying

the Black Mesa Mining Claim claimed by John Lawler located in Eureka Mining District Yavapai County, Arizona, and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully executed, and the boundary monuments planted according to the instructions furnished by the Surveyor General.

- J. H. Howard Chainman.
Chainman.
Axeman.
Flagman.

SWORN TO AND SUBSCRIBED before me this 20th day of March 1886

W. C. Foster Notary Public

I, C. B. Foster U. S. Deputy Surveyor, do solemnly swear that, in pursuance of instructions from the U. S. Surveyor-General for Arizona, bearing date the 24 day of February 1886, I have well, faithfully and truly, in my own proper person, and in strict conformity with the instructions furnished by the Surveyor-General and the laws of the United States, surveyed all those portions

the Black Mesa Mining Claim claimed by John Lawler located in Eureka Mining District, Yavapai County, Arizona, as are represented in the foregoing field-notes as having been surveyed under my directions; and I do further solemnly swear that all the corners of said surveys have been established and perpetuated in strict accordance with the instructions furnished me, and that the foregoing are the true and original field-notes of such surveys,

C. B. Foster Deputy Surveyor.

SWORN TO AND SUBSCRIBED before me this 21st day of March 1886

W. C. Foster Notary Public



8

Black Mesa

Notice of Location

Know all men by these presents,

That I the undersigned have this day located fifteen hundred (1500) linear feet of this vein or lode bearing precious metals with all dips, spurs, angles and variations with surface ground three hundred (300) feet on each side of the center vein with all Mineral deposits contained therein, and all timber growing within the limits of said claim and all water and water privileges thereon or appurtenant thereto, under and according to the provisions of the United States Mining laws, under which it is located.

This claim commences at this Monument and notice placed upon the ledge and runs 500 feet in a South Westerly direction, and 1000 feet in a North Easterly direction along the ledge.

The exterior boundaries are as follows, viz: Commencing at a Monument of Stone on West boundary line, distant three hundred (300) feet in a Westerly direction

From discovery Monument - Thence
 in a Northerly direction parallel with
 the ledge - - - - - Feet to Monu-
 ment of Stone at N.W. Corner of Claim,
 Thence in an Easterly direction at right
 angles across the ledge Six Hundred
 (600) Feet to a Monument of Stone
 at N.E. Corner of Claim, Thence in
 a Southwesterly direction parallel with the
 ledge Fifty Five Hundred (1500) Feet
 to a Monument of Stone at S.E. Corner
 of Claim, Thence at right angles
 across the ledge in a Westerly di-
 rection Six Hundred (600) Feet to
 Monument of Stone at S.W. Corner of
 Claim, Thence in a Northerly direction
 parallel with the ledge - - - - - Feet
 to a Monument on West boundary
 and place of beginning.

This ledge
 may be more generally described as
 situated about Fifty Five Hundred feet
 East of the Blue Mud Mine discovery
 Monument, and situated on the
 East side of Copper Creek & 1500 ft
 Northwestwardly from the Natural Point
 Mine, on the West side of this claim
 being a big lava wash running along
 the side of said claim, the discovery
 monument is built about 50 ft below
 a high sharp pointed rock, surround-

id by Three Cedar Trees in the County
Mining District, Yavapai County
Arizona Territory, and shall be
known as the Black Mesa Copper
Mine Mining Claim.

Dated on the ground this 25th
day of May 1883

(Sgd) John Lawler

Recorded at the request of John
Lawler May 31st A.D. 1883, at
15 minutes past 11 o'clock A.M.
in Book 17 of Mining Records of
Yavapai County, Arizona pages
499-500-501

(Sgd) A. H. Carter
Recorder

By D. S. Bechtel
Deputy

Territory of Arizona
County of Yavapai

I William Wilkerson
County Recorder in and for the County
of Yavapai Arizona Territory, and
Keeper of the Records of said County
pertaining to my office hereby certify
that the above and foregoing Man-
uscript is a correct copy of the
record of the Notice of Location of the
Black Mesa Mining Claim, in the
Carrizo Mining District in said County
of Yavapai as made in Book 17
Record of Mines at pages 499-500-
501, of said County and Territory

Witness my hand and official
Seal this 20th day of February
A.D. 1886

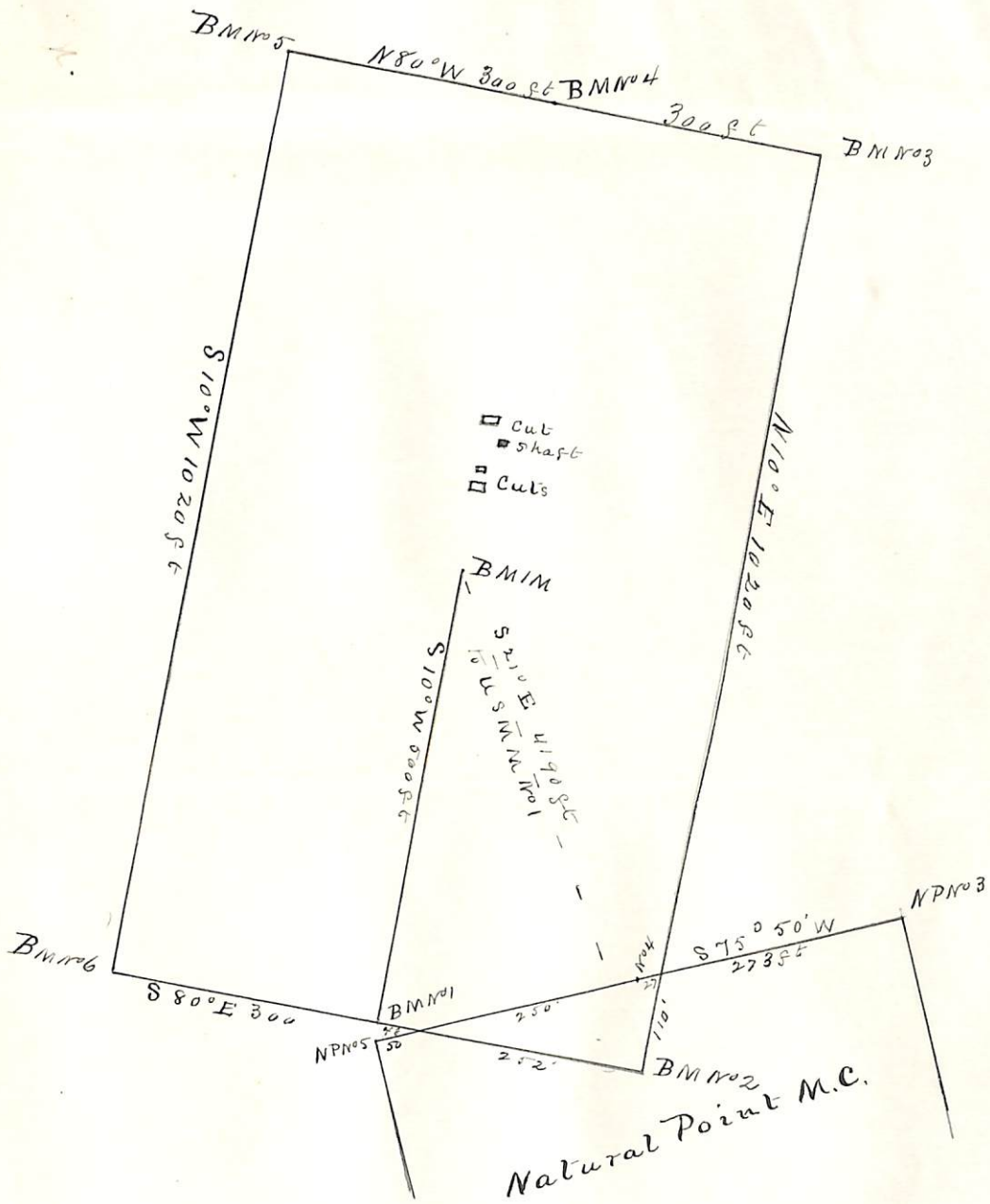
William Wilkerson
County Recorder

By W. C. Foster
deputy

Location Notice -
Black Mesa Copper
Mine
Eureka Dist.

Yavapai Co
A. S.





Plat
of the
Black Mesa Mining Claim
Eureka Mining District
Yavapai County Arizona
Claimed by John Lawler
Surveyed by C B Foster U.S.D.S.
March 17th 1886
Contains 13.73 Acres
Scale 200 ft to 1 in
Va 14° 29' E

U. S. Surveyor-General's Office.

Tucson, Arizona, May 10th 1886.

The foregoing Field Notes of the survey of the

Black Mesa

situate in the Eureka mining district, Yavapai

County, Arizona, claimed by John Lawler

survey executed by C. B. Foster Deputy

Surveyor, under instructions from this office, having been critically examined and the necessary corrections and alterations made, the said Field Notes and the survey they describe are hereby approved.

John H. Wise
Surveyor General.

JUN 6-1910
JUL 13 1910

4-683.

MINERAL SURVEY No. 766 Amended

LOT No.

Arizona Land District.

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

Arizona - Nevada Copper Company

KNOWN AS THE

Black Mesa

Eureka

Mining District,

Yavapai

County, Arizona

Section Approx., Township 14 N., Range 9 W., Unsur.

Surveyed under instructions dated May 4, 1910

by G. W. Spruill

U. S. Mineral Surveyor.

Claim located, 19

Survey commenced May 5, 1910

Survey completed May 12, 1910

6-322

- P.O. address of Claimant:
1201 Union Trust Bldg
Los Angeles, Calif.

SURVEY NUMBER 766 AMENDED, BLACK MESA.

- Feet. Beginning at cor.No.2,
 A pine post 4 ins.square, 4-1/2 ft.long, set 18 ins.in
 ground, in mound of earth and stone, scribed BM2-766Am.
 Cor.No.2 of original survey bears S.79°32'E. 8.7 ft.
 Cor.No.3, Sur.No.764Am, Natural Point, bears N.54°43'E.
 307.8 ft.
 U.S.M.M.No.1E.M.D.bears S.19°56'E. 3580.3 ft.
 Thence N.9°44-1/2'E.
- 123.8 Intersect line 3-5 Natural Point, ^{Sur.No.764 Am.} at S.76°23'W. 237.0 ft.
 from Cor.No.3.
- 1019.5 To cor.No.3,
 A pine post 4 ins.square, 4-1/2 ft.long, set 18 ins.in
 ground in large monument of earth and stone, scribed
 BM3-766Am, whence
 Cor.No.3 of original survey bears N.13°36'E. 19.6 ft.
 Thence N.79°32'W.
- 300.0 ^{Northerly} ~~Southerly~~ end lode line.
- 600.0 To cor. No.5,
 Identical with cor.No.5 of original survey, a basalt
 stone 14x24 ins.showing 16 ins.above ground, chiseled on
 E.face BM5 to which I added 766Am and X for exact point.
 Mound of rock alongside.
 Thence S.9°44-1/2'W.
- 1019.5 To cor.No.6,
 Identical with cor.No.6 of original survey, a basalt rock
 18x20 ins.12 ins.above ground, chiseled BM6 to which I
 added 766Am and X for exact point, Mound of rock alongside.
 Thence S.79°32'E.
- 300.0 ^{Southerly} ~~Northerly~~ end lode line.
- 321.5 Intersect line 3-5 Natural Point, ^{Sur.No.764 Am.} at N.76°23'E. 25.3 ft.
 from cor.No.3 and S.76°23'W. 540 ft. from Cor.No.2.
- 600.0 To cor. No.2, the place of beginning.

Iron in massed and scattered fragments of basalt renders
 the use of the needle impracticable. Average variation
 16° E.

Total area 14.041 acres
 Conflict with Sur.No.764AM Natural Point 0.396 acres
 13.645 acres

INSTRUMENT.

This amended survey was made with Berger & Sons Transit No. 5067 in good adjustment. Distances were measured with 500 ft. and 50 ft. steel tapes. All bearings were deflected from the true meridian as determined by observations of Polaris, checked by solar observations both direct and with Bergers patent solar adapter.

Handwritten notes:
 1/20/11
 1/20/11
 1/20/11
 1/20/11
 1/20/11

LOCATION

This survey is located in Eureka Mining District, Yavapai County, Arizona, on unsurveyed ground in about T.14 N., R.9 W., G. & S.R. B. & M., Latitude 34°38'N.

ADJOINING CLAIMS.

Adjoining claims are Eta, Iota, Copper Filling and Copper Slope, all unsurveyed and all owned by claimant Company, which adjoin this survey on the N.W., N.E., E., and S.W., respectively, also the Natural Point lode, Sur. No. 764 Am, on the southeast.

REPORT.

Recent and extensive developments show that the underlying ore body is of blanket formation, and that the lode line must therefore be imaginary, therefore cor. Nos. 1 and 4, missing, marking ends of same were not re-established. Original cor. No. 2 is a basalt stone 12x20 ins. 12 ins. above ground, chiseled BM2.

Original cor. No. 3 is a basalt stone 8x8x20 ins. lying on ground, chiseled BM3.

All posts described are painted white with points tops painted black. They are carefully centered over 6 in. spikes driven at exact point in bottom of post hole. The monuments surrounding posts exceed 5 ft. base. Where a stone is used for cor. an unmarked post is set alongside in mound as marker.

This amended survey lies entirely within the limits of the original survey as marked by monuments on the ground, and is made under authority of Department letter "N" of March 15, 1910 to establish parallel end lines, and to bring the claim within lawful limits.

G. H. Spencer
 U.S. Mineral Surveyor.

FINAL OATHS FOR SURVEYS.

LIST OF NAMES.

A list of the names of the individuals employed by W. H. Spruce

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

Arizona - Nevada Copper Company

known as the Black Mesa

and showing the respective capacities in which they acted.

J. J. Stukenborg, Chainman.

Wm. Mueller, Chainman.

....., Axman.

....., Flagman.

FINAL OATHS OF ASSISTANTS.

We, J. J. Stukenborg

and Wm. Mueller, do solemnly swear that we assisted

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

Arizona - Nevada Copper Company

known as the Black Mesa

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

J. J. Stukenborg, Chainman.

Wm. Mueller, Chainman.

....., Axman.

....., Flagman.

My reason for swearing my assistants is that there is no Notary Public within many miles by wagon- and rail-roads

W. H. Spruce

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

day of May, 1900.

W. H. Spruce

U. S. Mineral Surveyor

FINAL OATH OF U. S. DEPUTY MINERAL SURVEYOR

I, G. H. Spencer, U. S. Deputy Mineral Surveyor, do solemnly swear that, in pursuance of instructions received from the United States Surveyor General for Arizona, dated May 4, 1910, 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 Arizona - Nevada Copper Company, known as the Black Mesa, situate in Eureka Mining District, Maricopa County, Arizona, in Section Approx., Township No. 14 N., Range No. 9 W. 2nd, and designated as Survey No. 766 amended, 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 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.~~

G. H. Spencer

U. S. Deputy Mineral Surveyor.

Subscribed and sworn to by the said G. H. Spencer

U. S. Deputy Mineral Surveyor, before me Notary Public in

and for Maricopa Co. A.T. this 4th

day of June 1910,

My commission expires April 3, 1913.

Geo. W. Muntz
Notary Public

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

Department of the Interior,

OFFICE OF U. S. SURVEYOR-GENERAL,

Phoenix, Arizona,

September 16, 1910., 190.

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 Arizona-Nevada Copper Company
known as the BLACK MESA
situate in Eureka
Mining District, Yavapai County, Arizona
in Section Approx., Township No. 14 N., Range No. 9 W., Unsur., and
designated as Survey No. 766 Amended, 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 improve-
ments made upon said mining claim by claimant or grantors, and that said improvements
consist of~~

~~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.

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 16, 1910, 190

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 Arizona - Nevada Copper Company,

Black Mesa, known as the

situate in Eureka Mining District, Yavapai County, Arizona

in Section Approx., Township No. 14 N., Range No. 9 W. Unsur., designated as Survey No. 766 Amended

executed by G. H. Spencer, U. S. Deputy Mineral Surveyor,

May 5-12, 1910, under my instructions dated pursuant to the authority contained in Dept. letter "N" dated March 15, 1910. May 4, 1910, 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.

Mineral Survey No. 766
Amended

Phoenix Land District
Yavapai County, Ariz.

Surveyed May 5-12, 1910
By G. H. Spencer
U.S. Mineral Surveyor

Scale 1 in. = 200 ft.
All distances expressed in feet.

