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LOT NO. 191

SURVEY NO. 800

FIELD NOTES

of the survey of the

Boss

Mining Claim

Situate in Lombstone mining district,

County of Cochise and in Sec. 11, Tp. 20

Range 22, of the Gila and Salt River Meridian.

ARIZONA.

Claimed by Chas W Leach et al

Survey executed by H G Howe D. S.

Under instructions dated January 28th 1887

Survey commenced February 14th 1887

Survey completed March 12th 1887

PRELIMINARY OATHS,

FOR SURVEYS OF MINING CLAIMS AND MILL-SITES.

WE, A. A. Banning and Jos. H. Hartz

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.

A. A. Banning

Jos. H. Hartz

SWORN to and subscribed before me, this 14th day

of February 1887

B. A. Fickas clerk

By J. J. Patton Deputy

I,

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

..... according to instructions given me,

to the best of my skill and ability.

SWORN to and subscribed before, me this..... day

of..... 188.....

Description of Survey

Commencing at the Initial Monument as described in the Notice of location, which point is also the North center end of the Tribute Mining Claim, lot No. 90, a 4x4 in. post in monument of stone. Post marked (letters cut in) T.M.C. No. 5, where I set a post 5 1/2 ft. long, 4 in sq., 1 ft. in ground, on the North side of a 4 in Post marked, T.M.C. No. 5, and rebuild monument, 4 1/2 ft at base + 3 ft. high. Post marked I.M. BOSS. M.C. No. 1.

From which U.S.M.M. No. 1, bears $19^{\circ}48' E$, 2090 ft. distant.

The cor. to sec 14 2, North Boundary T. 20 S. R. 22 E, bears $110^{\circ}29' E$, 8864 ft. dist.

I then run a line through the center of claim and find this line to bear $N44^{\circ}40' E$ and $S44^{\circ}40' W$. Then commencing at the North east center of claim

Feet Run $S44^{\circ}40' W$.

Var $11^{\circ}43' East$.

- 54.7 intersect S.W. line of Sulphuret, M. C. lot No 48, at a point $S26^{\circ} E$, 300 ft. from a 4 in Post marked, S.M.C. No. V.
- 154.7 and 13 ft to right a shaft 4x7 ft. 12 ft. deep.
- 190 and 10 ft to right. Incline shaft sunk upon croppings, 4x6 ft. 24 ft. deep.
- ^{203.} 235.7 and 40 ft. to left. Steam Hoisting Works
- 296.7 and 53.7 " to left. a shaft 5x7 ft. 200 ft deep. Well timbered, with drifts and cross cuts at 100 ft.
- 338.7 Wash drains West.
- 472.2 To S.M. and Post No. 1.
- Thence $S36^{\circ}09' E$

Var $11^{\circ}43' East$.

Along the North end line of the Tribute M.C. lot No 90

- 299.5 To the S.E. cor. where I set post 5 1/2 ft. long 4 in sq., 1 ft in ground, on the North side of a 4x4 in Post marked.

Feet. T.M.C. No. 4, and a 4 in. Post
marked N.M.C. No. 3, and rebuild
monument around them, $4\frac{1}{2}$ ft
at base. 3 ft high

Post marked B.M.C. No. 2.

Thence $N49^{\circ}06'E$.

Var $11^{\circ}43'$ East.

10 Wash drains Northerly

300 Wash drains Westerly.

365 intersect southerly line Sulfuret
M.C. lot. No. 48 at a point $N26^{\circ}W$, 60.8 ft
from a 4 in Post. in monument of
stones. Post marked S.M.C. No. IV,
where I set post $5\frac{1}{2}$ ft long, 4 in. sq.
1 ft. in ground and surrounded by a
monument of earth and stones, $4\frac{1}{2}$ ft
at base and 3 ft. high

Post marked B.M.C. No. 3.

This point is also the N.W. cor. of East
Clance. No. 2, Mining Claim

Thence $N17^{\circ}12'W$.

Var $11^{\circ}43'$ East.

324 To North east center of claim.

which point coming upon Patented
ground. I drive an Iron pin for
cor. $\frac{1}{2}$ in. in diameter and 8 inches
long and set a W. Post at a point
 $S44^{\circ}40'W$, 54.7 ft. dist. which point
is upon the southerly line of the
Sulfuret M.C. lot. No. 48, where I set a
post $5\frac{1}{2}$ ft long, 4 in. sq. 1 ft. in ground
and surrounded by a monument
of earth and stone, 4 ft at base and
3 ft. high

Post marked B.M.C. No. 4.

From which a 4 in. Post marked
S.M.C. No. V. bears $N26^{\circ}W$, 300 ft. dist
Thence from Iron pin.

Iron $N36^{\circ}09'W$.

Var $11^{\circ}43'$ East.

86.5 Small wash drains S.S.W.

2 86.5 To the N.W. Cor. which is also the S.W
cor. of Sulfuret M.C. lot. No. 48, where

Feet I set a post $5\frac{1}{2}$ ft. long, 4 in sq. 1 ft in ground. on the South side of a 4 in. Post marked S.M.C. No. V. and rebuild monument around them 4 ft. at base and 3 ft high

Post marked B.M.C. No. 5.

This point comes also upon the S.E. side line of the West side M.C. Lot, No. 91.

Thence $S43^{\circ}W$

Var $11^{\circ}43'$ East.

Along the S.E. side line of the West side M.C. Lot, No. 91.

168. Shaft. 4×6 ft 5.5 ft deep. Shaft put on 13.20 M.C.

383 Wash drains West.

473. To the S.W. cor. of claim, which point is also the N.W. cor. of the Tribute M.C. Lot, No 90, where I set a post $5\frac{1}{2}$ ft long, 4 in sq. 1 ft. in ground on the North side of a 4 in Post marked T. M. C. No. 6, and rebuild monument of earth and stone around them 4 ft. at base and 3 ft high

Post marked B.M.C. No. 6.

Thence $S36^{\circ}09'E$.

Var $11^{\circ}43'$ East.

Along the N. End line of the tribute Mining Claim.

271.8 To Post No. 1, and place of beginning

Containing

A net area of 5.38 acres

Note:—

While making this Survey I had the accompanying Protest handed to me, which speaks for itself. The claim of Emmons P. Ryder is shown by dotted Red line, and his shaft at 168 ft. on line of West side M.C. This is a recent location and.

when I commenced the survey there was no stakes to mark the boundaries of his claim since the survey. stakes 1x3 have been placed upon his claim.

Location.

This claim is situated near the center of Tombstone Mining District and is a fractional claim and is bounded upon the North by the Sulphur M. C. Lot. No. 48. Upon the West by the West Side M. C. Lot. No. 91. Upon the South by the Tribute. M. C. Lot No 90 and upon the East by the Lost Chance. No. 2. Mining Claim

Improvements;

The improvements made upon this claim by the present owners consist of

a shaft 4x7 ft. 12 ft deep

a shaft 4x6 " 21 " deep

a shaft 5x7 " 200 " deep and
over 200 ft. of drifts 5x7 ft

Over the main shaft. is built Hoisting Works. with Steam Power to run them. Shaft equipped with cages to lower and hoist iron cars.

The improvements made by others upon this claim is a shaft 4x6 ft 55 ft. deep. sunk by Emmons P Ryder. et. al.

And I hereby certify that the improvements made upon this claim by the present owners exceeds in value the sum of Ten thousand Dollars.

Instruments used a
Young's improved Solar
Transit and steel tape.
Bearings taken by use of the
Solar apparatus.

A. G. Howe,
U. S. Deputy Mineral
Surveyor.

Tombstone
March 14th / 87

Official Survey
 of the
BOSS MINE

Tombstone Mining District
 Cochise County, Arizona Territory

Claimed by
 Chas. W. Leach, et al.

Surveyed by
 H. G. Howe
 U. S. Deputy Mineral Surveyor

Under instructions from the
 Surveyor General, bearing date the
 28th day of January, 1887

Survey Commenced Feby 14. 1887

Survey Completed March 12th 1887

[Faint, illegible handwritten text]

AFFIDAVIT OF FIVE HUNDRED DOLLARS IMPROVEMENTS.

We, A. A. Banning and Jas. A. Hart,
of lawful age, being first duly sworn according to law, depose and say that we are acquainted with
the "Boss."
_____ mining claim, situate in _____
Tombstone Mining District, Cochise County, Arizona
Territory, for which Chas. W. Leach et al.
have 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
applicants and their grantors exceed Five Hundred Dollars in value, and further that we are
not personally interested in said mine.

A. A. Banning
Jas. A. Hart

TERRITORY OF ARIZONA, }
County of Cochise } SS.

SWORN AND SUBSCRIBED before me this 14th
day of March 1887.

B. A. Hicks Clerk
J. J. Patton
Deputy

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 Boss Mining Claim.

located in *the Tombstone* Mining District, *Cochise* County, Arizona, showing the respective capacities in which they acted.

A. A. Banning, Chainman.
Gas H. Hart, Chainman.
_____, Axeman.
_____, Flagman.

We hereby certify that we assisted

A. G. Howe

U. S. Deputy Surveyor, in surveying

The Boss Mining Claim.

claimed by *Chas W Leach Et. al.*

located in *the Tombstone* Mining District, *Cochise* County,

and in Township No. *20 S.*, Range No. *22 E.* of the Gila and Salt River base and meridian, Arizona, and that said survey has been in all respects, to the best of my knowledge and belief, well and faithfully executed, and the boundary monuments planted according to the instructions furnished by the Surveyor General.

A. A. Banning, Chainman.
Gas H. Hart, Chainman.
_____, Axeman.
_____, Flagman.

SWORN to and subscribed before me this *14th* day of *March*, 188*7*.

B. A. Hickas Clerk
J. J. Patton Deputy

I, *A. G. Howe*

U. S. Deputy Surveyor, do solemnly swear that, in pursuance

of instructions from the U. S. Surveyor General for Arizona, bearing date the *28th* day of

January, 188*7*, 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 *of the Boss Mining Claim.*

claimed by *Chas W. Leach, Et. al.*

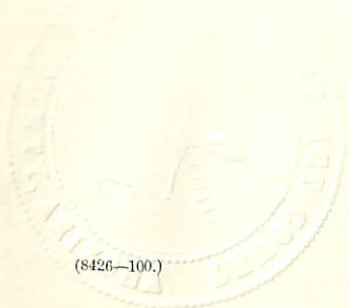
located in *Tombstone* Mining District, *Cochise* County,

Arizona, as are represented in the foregoing field-notes as having been surveyed under my instructions; 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.

A. G. Howe, Deputy Surveyor.

SWORN to and subscribed before me this *14th* day of *March*, 188*7*.

B. A. Hickas Clerk
J. J. Patton Deputy



TERRITORY OF ARIZONA. }
 County of Cochise } ss.

W. F. Bradley

I. ~~A. F. JONES~~; County Recorder in and for the County of Cochise, do hereby

certify that the above and foregoing is a full, true and correct copy of Location
Notice of The Boss mine located June 7^m 1878 by
A. M. Cann, W. S. Edwards, J. E. Walker & W. C. Parsons.

as appears of record now in my office in Book 3, Page 764

Transcribed Records of Mines, from Pima County, Ariz.

In Witness Whereof, I have hereunto set my hand and affixed
 my official seal, at my office, in Tombstone, this

26^m day of January, A. D. 1887

W. F. Bradley

County Recorder

Location Notice of "The Boss" Mine

Notice, we the undersigned have this day located and claim 500 feet more or less on this quartz vein ledge or lode, commencing at this monument and notice, being the north end center of the Tribute mining location, thence North 41° East, to western boundary line of the Sulphuret, claiming three hundred feet on each side of the ledge, and all privileges granted by the laws of Congress the Territory and District, Tombstone Mining District Pima Co, Arizona Territory, this 7th day of June A.D. 1878. Dated on the ground. This mine to be known as The Boss,

Locators

A. McCann,

W. S. Edwards

J. E. Walker,

W. C. Parsons.

Filed and recorded at request of J. E. Walker June 10th 1878 at 8 o'clock A.M.

S. W. Carpenter.

County Recorder.

Best copy of
The Rose mine,
Location notes,

O.K.

To H S Howe Esq

Mineral Surveyor

You are hereby notified to desist from placing any monuments of survey by you and to desist from making any survey upon the following described property to wit the same being mining claim known as the Little Venturo situated in the Tombstone mining district in the county of Cochise Territory of Arizona and more particularly described as follows.

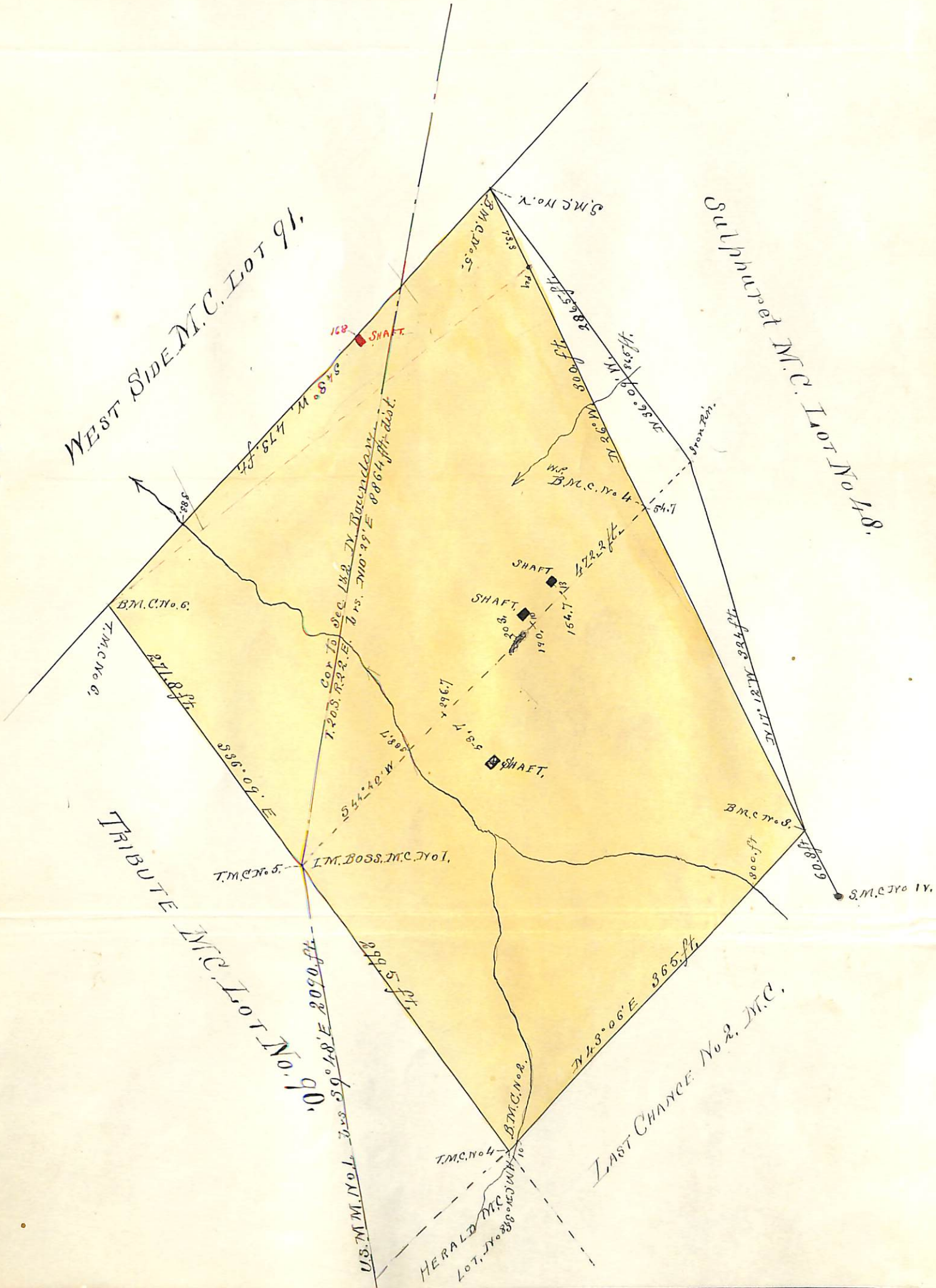
Commencing at a monument of stones at the junction of the West Side and Sulphet mining claims thence ^{running} seventy four feet (74 ft) along the line of the Sulphet two monument of stones thence along the line of the Cass mining claim to monument of stones at junction of the Box Tribute and West side mining claims thence along the line of the West side mining claim to the place of beginning.

Dated at Tombstone County of Cochise Territory of Arizona
This 17th day of February. A. D.
1887.

Emmons P Ryder

PLAT
 OF THE
 BOSS MINING CLAIM,
 TOMBSTONE MINING DISTRICT,
 COCHISE COUNTY, ARIZ.

Scale 100 ft = 1 inch.
 Var 11° 43' East,



U. S. Surveyor-General's Office.

Tucson, Arizona, *March 24th* 1887.

The foregoing Field Notes of the survey of the
Boss Mining Claim
 situate in the *Saubstone* mining district, *Cochise*
 County, Arizona, claimed by *Chas W Leach*
et al
 survey executed by *H. C. Howe* 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 Hise
 Surveyor General.

5/22/02

Plated
L. G.

(4-683.)

Mineral Survey No. 800 Amended

Lot No. _____

Gila Land District.

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

Grand Central Mining Co

KNOWN AS THE

Boss

Tombstone Mining District,

Cochise County, Arizona

Section _____ Township 20 S, Range 22 E (unsurveyed)

Surveyed under instructions dated April 1, 1902

by John A. Rockefeller
U. S. Deputy Mineral Surveyor

Claim located June 7, 1878

Survey commenced May 16, 1902

Survey completed May 16, 1902

6-103

Address of Claimants' Attorney
James Riley
Tombstone
Ariz.

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Handwritten signature or name.

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PRELIMINARY OATHS OF ASSISTANTS IN SURVEY OF MINING CLAIM.

We, James M Platt and _____, do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain upon even and uneven ground and plumb the tally-pins, either 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, and in accordance with instructions given us, in the survey of the Mining Claim of _____,

Grand Central Mining Company, known as the Boss

situate in Tombstone mining district, Cochise County, Arizona

in Section _____, Township No. 20 S., Range No. 22 E (Unsurveyed)

James M. Platt, Chainman.
_____, Chainman.

Subscribed and sworn to by the above-named persons before me this 16 day of May, 181907

John A. Rockfellow

MY COMMISSION EXPIRES APR. 10, 1907

I, _____, do solemnly swear that I will well and truly perform the duties of axeman, in the establishment of corners and other duties, according to instructions given me and to the best of my skill and ability, in the survey of the Mining Claim of _____

known as the _____, more fully described in the preceding affidavit.

_____, Axeman.

Subscribed and sworn to by the said _____ before me this _____ day of _____, 18 _____.

I, _____, do solemnly swear that I will well and truly perform the duties of flagman, in the establishment of corners and other duties, according to instructions given me and to the best of my skill and ability, in the survey of the Mining Claim of _____

known as the _____, more fully described in the preceding affidavit.

_____, Flagman.

Subscribed and sworn to by the said _____ before me this _____ day of _____, 18 _____.

Handwritten text, possibly a signature or date, appearing upside down. Includes the date "1881" and the name "Wm. M. ...".



Whence: Va. 12° E.

A cross (x) and B.R. 4-800 A. chiseled on porphyry bed rock brs. S. 3° 52'W. 11.9 ft.

A cross (x) and B.R. (no space for more letters) chiseled on porphyry bed rock, brs. N. 16° 10'E. 13.9 ft.

A post in m'd. of stone, scribed N.E. x S.M.C. No. 1V brs. N. 40° 50'E. 13.4 ft.

A post in m'd. of stone, scribed N.E. X S.M. No. V brs. 56° 50'E. 15.0 ft.

Thence S. 42° 54'W.

471.3 To Cor. No. 5, identical with location, a pine post 4 ins. sq. 4 ft. above ground, in m'd. of stone, scribed B.M.C. N. 6, to which I add 5-800 A.M.

Contiguous westerly is a post scribed T.M.C. N. 6.

Whence : Va. 12° E.

A cross (x) and B.R. (no space for more letters) and chiseled in porphyry bed rock brs. N. 67° 45'W. 37.0 ft.

A cross (x) and B.R. (no space for more letters) chiseled on porphyry bed rock brs. N. 82° 51'E. 15.0 ft.

Thence S. 36° 26'E.

85 Road brs. N.E. & S.W.

144 Incline Shaft 20 ft. rt.

271.1 Initial Monument identical with location, a pine post 4 ins. sq. 4 ft. above ground in m'd. of stone, scribed I.M. BOSS M.C. N. 1, to which I add 800 A.M.

Contiguous southwesterly is a post scribed T.M.C. N. 5.

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

Var of all corners 12° E

Area:

| | |
|---------------------------------|--------------|
| Boss Lode | 5.71 acres. |
| Area in conflict with Sulphuret | |
| | <u>.35 "</u> |
| Net area Boss | 5.36 " |

SURVEY NO. 800, AMENDED, BOSS' LODE.

- Commencing at Cor. No. 1, identical with location, a
 pine post 4 ins. square 4 ft. above ground scribed
 B.M.C. N. 2, to which I add 1-800 A.M. Contiguous to
 this post are 3 others scribed as follows: "T.M.C. N 4"
 "H.M.C. N 3"; and "E.C. 2 M.C. N 2". Whence Va. 11°
 $55'$ E. U.S. Mineral Monument No. 1 of Tombstone Dist.
brs. S. $5^{\circ} 28' E$ 1838.1 ft.
Cor. to sec. 1-2-35 & 36 on N. side Twp 20 S. R. 24 E
brs. N. $10^{\circ} 02' E$ 966.4 ft.
 A cross (x) and B.R. 1-800 A. chiseled on porphyry
 bed rock brs. S. $54^{\circ} 30' W$. 16.5 ft.
- A Post, in m'd. of stone, scribed H.M.C. N. 4 brs.
 S. $33^{\circ} 30' E$. 83.6 ft.
- Thence N. $42^{\circ} 50' E$.
- .276 A wagon road brs. N.E. & S.W.
- 362.5 To Cor. No. 2 ^{on the W. side line of Sulphuret lode Lot No 48} identical with location, a pine post 4
 ins. sq. 4 ft. above ground in m'd. of stone, scribed
 B.M.C. N. 3 to which I add 2-800 A.M. Whence: Va.
 $12^{\circ} E$.
- The center of a large m'd. of stone brs. S. 26°
 $11' W$. 61 ft.
- A cross (x) and B.R. A. 800 chiseled on porphyry
 bed rock brs. S. $2^{\circ} 08' W$. 5 ft.
- A cross (x) and B.R. (no space for more letters)
 brs. N. $85^{\circ} 30' E$. 5 ft.
- Thence N. $17^{\circ} 11' W$.
- 324.1 To Cor. No. 3 ^{within the boundaries of the Sulphuret} a pine post 6 x 4 ins., set 6 ins. in
 ground to hard pan, in m'd. of stone, scribed 3-800
 A.M. Whence: Var $12^{\circ} E$.
- An iron pin - location corner, - brs. N. $55^{\circ} 30' E$.
 1.2 ft.
- A post, in m'd. of stone, scribed B.M.C. N. 4, brs.
 S. $54^{\circ} 50' W$. 53.1 ft.
- A cross (x) and B.R. (no space for more letters)
 chiseled on porphyry bed rock brs. S. $62^{\circ} 50' W$. 17.0 ft.
- No other bearings available.
- Thence N. $36^{\circ} 26' W$.
- 126 S.W. cor. of a shaft
- 284.5 To Cor. No. 4 ^{on W. side line of Sulphuret} identical with location, a pine post 4
 ins. sq. 5 ft. above ground, in m'd. of stone, scribed
 B.M.C. N. 5 to which I add 4-800 A.M. Contiguous
 Northeasterly is a post scribed S.M.C. No. 4.

Location:

This claim is located in Tombstone Mining Dist. Cochise Co. Ariz., in Tp. 20 S. R. 22E. unsurveyed.

The course of the lode is N. 42° 50'E. as nearly as can be determined by present developments: it extends from near the south boundary nearly the entire length of the claim.

The adjoining claims are on the west the "West Side"; ^{Lot No 91} on the north the "Sulphuret"; ^{Lot No 48} on the east the "Last Chance" No. 2"; ^{Lot No 194} on the south the "Tribute"; ^{Lot No 90} all patented ground and claimed by the Tombstone Con. Mines Co. (Limtd).

Expenditure of \$500.00.

I certify that the value of the labor and improvements upon this claim placed thereon by the claimants and their grantors, is not less than five hundred dollars, and that said improvements consist of:

- 1. Discovery work which bears from Cor. No. 4, S. 4° 40'E. 356 ft.; shaft 6 x 4 ft. 36 ft. deep, Value \$300.
- 2. A shaft (No. 1) which brs. from Cor. No. 4 S. 41° 10'W. 282 ft.; shaft 6 x 5 ft. partly filled, at least 15 ft. deep, value \$100.
- 3. An incline shaft (No. 2) which brs. from Cor. No. 4 S. 40° 50'W. 167 ft.; Shaft 6 x 5 ft. 30 ft. deep value, \$250.
- 4. A shaft (No. 3) the main working shaft of the mine double compartment and timbered, which brs. from Cor. No. 4 S. 1° 20'E. 459 ft. Shaft 100 ft. or more in depth, value \$1500.
- 5. A shaft (No. 4) which brs. from Cor. No. 4, S. 8° 00'E. 311 ft. ;shaft 6 x 5, 21 ft. deep, value \$200.
- 6. A shaft (No. 5) which brs. from Cor. No. 4 S. 17° 50'E. 215 ft.; shaft 6 x 5 ft. 50 ft. deep, value \$500.
- 7. A shaft which brs. from Initial M'n't. S. 46° 47 'E. 135 ft. ;shaft 6 x 5 ft. 10 ft. deep, value \$100.

Instrument.

This survey was made with a Young & Sons' Mountain transit, with Smith Solar attachment (instrument No. 6855). The courses were deflected from true meridian as determined by direct solar observations.

The distances were measured with a 300 ft. steel tape.

Tombstone, Arizona.

May 17, 1902.

John A. Rockfellow
U. S. Dep. Min. Surveyor

Calculation for Area
of
Boss Lode

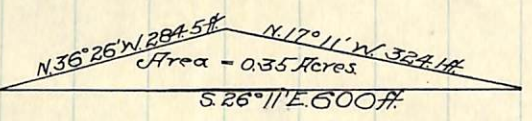
| Line | Course | Dist. | N. | S. | E. | W. | M.D. | D.M.D. | N.A. | S.A. |
|------|---------------|-------|-------|-------|-------|-------|-------|--------|-----------|-----------|
| 5-4 | N 42° 54' E. | 471.3 | 345.2 | | 320.8 | | 320.8 | 320.8 | 110740.16 | |
| 4-3 | S 36° 26' E. | 284.5 | | 228.9 | 168.9 | | 489.7 | 810.5 | | 185523.45 |
| 3-2 | S 17° 11' E. | 324.1 | | 309.6 | 95.7 | | 585.4 | 1075.1 | | 332850.96 |
| 2-1 | S. 42° 50' W. | 362.5 | | 265.8 | | 246.5 | 338.9 | 924.3 | | 245678.94 |
| 1-5 | N. 36° 26' W. | 570.7 | 459.1 | | | 338.9 | 0.0 | 338.9 | 155488.99 | |
| | | | 804.3 | 804.3 | 585.4 | 585.4 | | | 266229.15 | 764053.35 |

266229.15
 21497824.20
 43560/248912.10

248862.10

Area in Acres 5.71

Area in conflict with
Sulphuret Lode



Area = $\frac{1}{2}$ of 284.5 x 324.1 Sin 19° 15'

$\log 284.5 = 2.45408$
 $\log 324.1 = 2.51069$
 $\log \sin 19^{\circ} 15' = 9.51811$
 $\text{Colog } 2 = 9.69897$
 $\text{Colog } 43560 = 5.36091$
 $\log A = 9.54276$
Area = 0.35

FINAL OATHS FOR SURVEYS.

LIST OF NAMES.

A list of the names of the individuals employed by John A. Rockefeller
 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 Grand Central Mining Co
 known as the Boss
 and showing the respective capacities in which they acted.

James M. Platt, Chainman.
 _____, Chainman.
 _____, Axman.
 _____, Flagman.



FINAL OATHS OF ASSISTANTS.

We, James M. Platt
 and John A. Rockefeller, do solemnly swear that we assisted John A. Rockefeller, United States Deputy Mineral Surveyor, in marking the corners and
 surveying the boundaries of the mining claim of Grand Central Mining Company
 known as the Boss, 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.

James M. Platt, Chainman.
 _____, Chainman.
 _____, Axman.
 _____, Flagman.

Subscribed and sworn to by the above-named persons before me
 this 17 day of May, 1902

John A. Rockefeller
Mary Public

MY COMMISSION EXPIRES APR. 10, 1903

(4-686.)

FINAL OATH OF U. S. DEPUTY MINERAL SURVEYOR

I, John A Rockfellow, U. S. Deputy Mineral Surveyor, do solemnly swear that, in pursuance of instructions received from the United States Surveyor General for Arizona, dated Apr 1 1902, 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 Grand Central Mining Co, known as the Boss, situate in Tombstone Mining District, Cochise County, Arizona, in Section , Township No. 20 S, Range No. 22 E unsurveyed, and designated as Survey No. 800 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 their 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.

John A Rockfellow
U. S. Deputy Mineral Surveyor.

Subscribed and sworn to by the said John A Rockfellow
U. S. Deputy Mineral Surveyor, before me Frank W Woolbody
a Notary Public this 17
day of May 1902

Frank W Woolbody
Notary Public in and for
Cochise County Territory of Arizona

My Com. Ex.
April 1st, 1905.



o 5-154

THE BOSS.

Book D.
pp. 121.

Notice, we the undersigned have this day located and claim 500 feet more or less, on this quartz vein ledge or lode, commencing at this monument and notice being the north end centre of the Tribute mining location, thence North 41° East to western boundary line of the Sulphuret, claiming three hundred feet on each side of the ledge and all priveleges granted by the laws of Congress the Territory and District. Tombstone Mining District Pima Co. Arizona Territory this 7th day of June A. D. 1878. Dated on the ground. This mine to be known as the Boss.

Witness:

A. Mc Cann

Richard Gird.

Wm. S. Edwards

T. E. Walker

W. C. Parsons

Filed and recorded at request of T. E. Walker June 10th
1878 at 8 o'clock A. M. Book 3 Mines Page 764, Transcribed
Records.

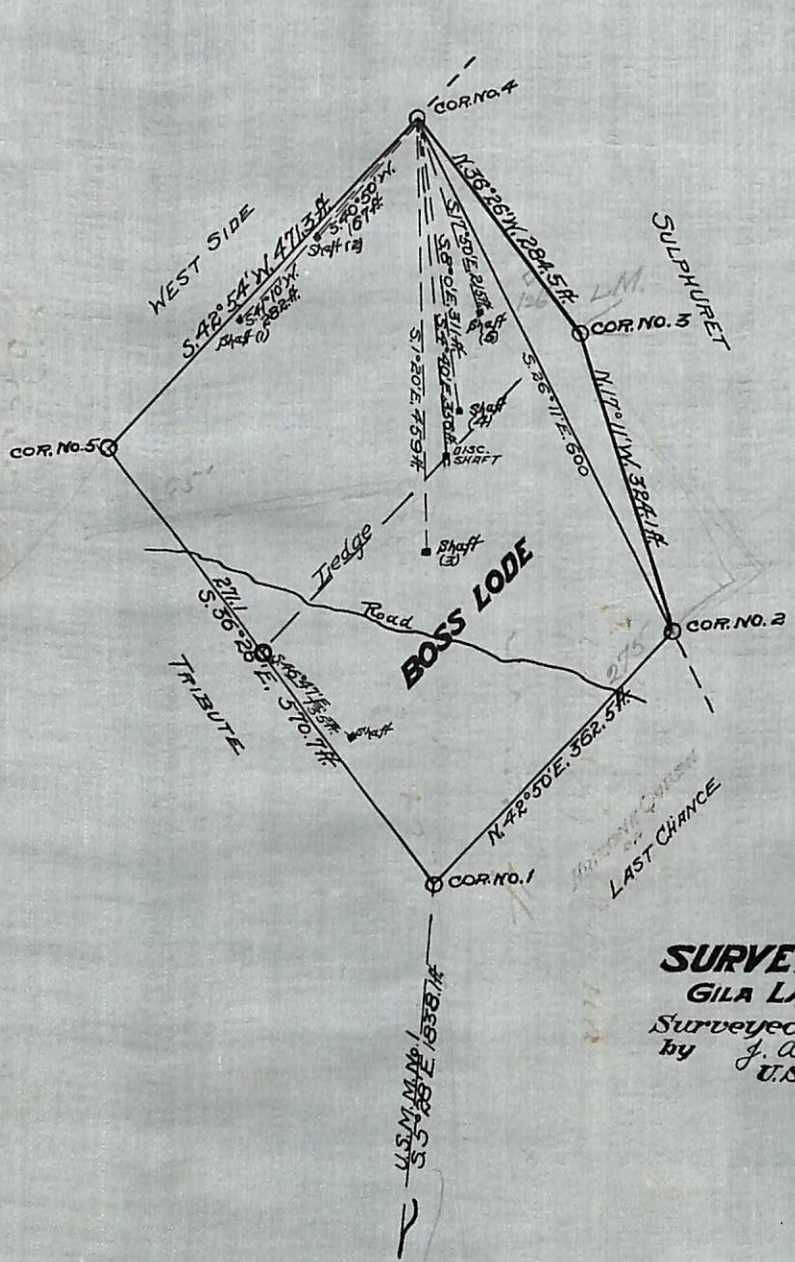
Territory of Arizona,)
 :SS.
County of Cochise.)

I, Frank Hare County Recorder in and for said County, hereby certify that I have compared the foregoing copy with the original mining location notice of the "Boss" filed and recorded in my office on the 10th day of June 1878, in Book 3 Transcribed Record of Mines, at page 764, and that the same is a full, true and correct copy of such original and of the whole thereof.

Witness my hand and seal of office, this 16th day of May 1902.

Frank Hare
County Recorder.





SURVEY No. 800 AM.
 GILA LAND DISTRICT
 Surveyed May 16th, 1902,
 by J. A. Rockfellow
 U.S. Dep. Min. Surveyor.

(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

Aug. 4, 190*2*

I, U. S. Surveyor General for *Dist. of Arizona*,

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

....., known as the *Bass*,

situate in *Tombstone* mining district,

Cochise County, *Arizona*,

in Section, Township No., Range No.

....., designated as Survey No. *800 - Amended*

executed by *John A. Rockfellow*, U. S. Deputy Mineral

Surveyor, *May 16, 1902*, ~~190~~, under my instructions dated

April 1st 1902, ~~190~~, 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. A true copy of the copy of the location

certificate filed by the applicant for survey is included in the field notes.

Hugh H. Luce

U. S. Surveyor General for *Arizona*