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LOT NO. 58.

SURVEY NO. 647.

Field Notes

of the Survey of the

"Cave."

Mining Claim.

Situate in Warren Mining District.

County of Cochise and in Sec. 1 approx, T1 23S

Range T4E, of the Gila and Salt River Meridian.

ARIZONA.

Claimed by Horace Jones

Survey executed by J. H. Hoadley D. S.

Under instructions dated January 30th 1884

Survey commenced February 9th 1884

Survey completed June 21st 1884

Case M. Co.

PRELIMINARY OATHS

FOR SURVEYS OF MINING CLAIMS AND MILL SITES.

WE, *H. C. Stillman* and *John W. Blair*

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.

H. C. Stillman
J. W. Blair

SWORN to and subscribed before me, this *9th* day
of *February* 188*4*

Sol. Grossenberg
Notary Public.



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*4*

February _____

PRELIMINARY OATHS

FOR SURVEYS OF MINING CLAIMS AND MILL SITES.

WE, A. Stillman and Ben Williams

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. Stillman
Ben Williams

SWORN to and subscribed before me, this 21st day

of June, 1884

Ed. L. Lumberg
Notary Public.

I,

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

..... according to instructions given me,

and to the best of my skill and ability.

SWORN to and subscribed before me this day

of, 188.....

Feet.

Field Notes
 of the Survey of the
 Cave Mining Claims,
 in the Warren Mining District, County
 of Cochise, Arizona.

Claimed by Horace Jones.

Surveyed by Jas. H. Hoadley, U. S.
 Deputy Mineral Surveyor, under in-
 structions from the Surveyors General,
 of date Jan. 30th 1884.

Survey Commenced Feb. 9th 1884.

Survey Ended June 21st 1884.

Description of Survey.

Beginning at the Initial Mon-
 ument, mentioned in location notice,
 from which point the center of a
 shaft on this claim bears

S. 55° 30' E.

Var. 12° 5' E.

25. and the West End Center of the Hol-
 brook Patent Survey bears

S. 55° 30' E. (Same Course)

Var. 12° 5' E.

125. at which point I set a post 4x4-4 ft.
 long, in the ground, and surrounded
 same with a mound of stones, post
 marked

C.I.M. 1.

Thence N. 34° W.

Var. 12° 5' E.

620. to location monument at ^{North} West End Cen-
 ter of the claim at which place, I
 set a post 4x4-4 ft. long in the ground
 and surrounded same with a mound
 of stones, post marked

C.M. 2.

Oak tree 18 in. in diameter marked
 C.M. 2. B.T. bears N. 6° 35' W. 6.6 ft.

Field Notes, Survey Cave. Mining Claims.
Feet.

97.3 Thence $N. 84^{\circ} 45' E.$
 Var. $12^{\circ} 5' E.$
 to South West corner of Ruckler Mining
 Claim, and post $4 \times 4 - 4\frac{1}{2}$ ft. long set
 in the ground and surrounded by a
 mound of stones. post marked
C.M. 3.
 and on the reverse side
R.M. VI.
 from which post the U. S. Mineral Monu-
 ment No. 1. bears
 $N. 22^{\circ} 5' E.$
 Var. $12^{\circ} 5' E.$

285.7 to said monument.
 No bearing trees available.
 Thence. $S. 55^{\circ} 35' E.$
 Var. $12^{\circ} 5' E.$

450 cross dry gulch,
 575 cross dry gulch,
 584.3 to North West corner of Holbrook Min-
 ing Claim and location monument and
 post 4×6 " - set in the ground and
 surrounded by a mound of stones and
 marked
C.M. 4.
 and on the reverse side
H.N.W.
 Oak trees 12 in. in diameter marked
C.M. 4. B.T. bears $S. 26^{\circ} 45' E.$
 38 ft.
 Thence along West End line of the Hol-
 brook, Mining Claim
 $S. 25^{\circ} 35' N.$
 Var. $12^{\circ} 5' E.$

295.3 to the West End Center of the Holbrook
 Mining Claim and post marked
C.M. 5.
 and on the reverse side
H.W. C.
 Large prominent rock marked X bears
 $S. 79^{\circ} 55' E.$ 38 ft.

47.1

Thence $S. 25^{\circ} 35' N$ (Same Course)
 Var. $12^{\circ} 5' E$

162.1 to the intersection of West End line of Woolbrook Mining Claim with the North East side line of the Baxter Mining Claim, at which point I set a post 4×4 - 4 ft. long, and surrounded same by a mound of stones said post marked

C.M. 6.

A large prominent rock marked XX bears $S. 76^{\circ} 35' N. 75$ ft.

Thence following the North East side line of the Baxter Mining Claim

$N. 31^{\circ} 50' N.$

Var. $12^{\circ} 5' E.$

120 to summit of low point,

230 cross dry gulch,

280 cross dry gulch,

300 cross dry gulch,

579.6 to a post 4×4 set and monumented as the N.E. corner of the Baxter Mining Claim, and marked,

C.M. 7.

and on the reverse side

B.M. No. 6.

No bearing trees available.

Thence following the North End line of the Baxter Mining Claim

$S. 80^{\circ} 39' N.$

Var. $12^{\circ} 5' E.$

115.2 to the intersection of the North End line of the Baxter Mining Claim with the East End line of the Atlanta Mining Claim, at which point I set a post 4×4 - 4 ft. long and surrounded same by a mound of stones, post marked.

C.M. 8.

from which point the East End, Center stake of the Atlanta Mining Claim bears $S. 8^{\circ} 30' E - 1\frac{1}{2}$ ft.

Field Notes Survey Cave Mining Claim

Feet.

No other points available as bearings.
Thence following the East End line
of the Atlanta Mining Claim

N 8° 30' W.
Var. 12° 5' E

140

at which point I set a post 4x4-4ft.
long and surrounded same by a mound
of stones, post marked

C.M. 9.

Oak tree 8 ins. in diameter marked
C.M. 9.B.T. bears N. 81° 5' E. 52 ft.

The location monument which should
be near this place has been destroyed
or removed, and I was unable to
find any trace of the same.

Thence N. 25° 35' E.
Var. 12° 5' E.

135

to post before described and marked
C.M. 2.

Thus closing the Survey of the Claim

Area

4.75 Acres.

Location

This claim is located on the North
slope of the Hill to the South of
Mule Pass Creek and one quarter (1/4)
of a mile Easterly from the Smelter
of the Copper Queen Mining Co.
and is bounded as follows:-

On the North by the Ellie, Dividend and
Wedge Mining Claims, on the South
East by the Holbrook Mining
Claim, ^{Rot No. 53} on the South West by the
Baxter Mining Claim, ^{Rot No. 52} and on the
North West by the Atlanta, ^{Rot No. 49} and
Ellie Mining Claims.

The Country

Field Notes Survey of Cave Mining Claim

rock is limestone and in various places shows croppings of Copper and Iron.

From Station C. M. 3. S. $20^{\circ} 25'$ E
242 ft- to croppings of Copper and Iron.

From Station C. M. 1 N. 30° W. 111.
feet- to croppings of Copper and Iron
and N. $48^{\circ} 20'$ W 247. feet to croppings
of Copper and Iron
and N. $38^{\circ} 5'$ W 180 ft to croppings
of Copper and Iron

From Station C. M. 2 N. $28^{\circ} 30'$ E.
42.1 feet- to S. E. Corner of the Copper
Queen Mining Claim, ^{Lot No. 37} at Stake marked
C. 2. M. C. S. E. Cor.

From Station C. M. 3 N. $24^{\circ} 25'$ E.
8.7 feet- to S. E. Corner of the General
Mining Claim, ^{Lot No. 57} and post marked
Ct. IV.

From the workings and the course and direction of the croppings I am led to believe that the line of ore body will cross the N. W. end line of the claim - The surface at Station C. M. 2. and along the greater portion of the N. W. end line is covered with drift to such a depth that it is impossible to determine to a certainty, but a line drawn through the croppings and the Copper Queen workings and croppings would cross the N. W. end line. and from an experience of $3\frac{1}{2}$ years in the mines of this district ~~the~~ direction and form of the ore bodies, I cannot arrive at any other conclusion

The ore bodies found in this portion of the district are of the class known as "deposits", having the same

Field Notes, Survey of Cave Mining Claim

general direction, ~~at~~ in some places very narrow, and in others widening to over one hundred feet.

They never appear on the surface in a continuous line, but so far they have been connected in the workings - and from this fact, and the others before mentioned - i.e., their direction, and the direction and workings of the ore body on the Cave mining claim - The ore body must cross some portion of the N. W. end line of Cave Mining Claim

Improvements & Workings

The improvements upon this claim consist of 4 shafts and a tunnel.

From Post marked C. M. 5. S. $51^{\circ} 45'$ W. 98.5 feet to Shaft N^o 1 - 4' x 6' and 10 feet deep,

and S. $31^{\circ} 15'$ W. 109.4 feet to Shaft N^o 2. said shaft being 4' x 6' and 40 ft deep,

and N. $55^{\circ} 30'$ W. 100 ft to Shaft N^o 3. said shaft being 4' x 6' and 40 feet deep

From post marked C. M. 4. S. $60^{\circ} 25'$ W. 109 ft to mouth of open cut and tunnel having a course of S. $40^{\circ} 25'$ W.

18.5 ft length of open cut

30. ft length of tunnel

48.5 ft total length

Said tunnel having an average size of 4. x 6.6 feet.

All these improvements were made by the proprietor of the Cave Mining Claim or his Grantors. and I hereby certify that the value of said improvements exceeds the sum of five hundred dollars (\$500.⁰⁰)

From post marked C. M. 8 N. $58^{\circ} 5'$ E. 30 feet to a shaft

Field Notes Survey Cave Mining Claim - 7

3 1/2 x 6' - 10 ft deep said shaft sunk by the locators of the Edlie Mining Claim.

There are no other improvements or workings

Instruments used - A Surley Transit and steel chain

Variation and courses taken
Magnetic

Variation of the needle taken on Feb. 9. 1884 by the North Star and found to be 12° 5' E

J. H. Hoadley
U. S. Dept. Min. Surv.

Bisbee July 17th 1884.

FINAL OATHS FOR SURVEYS OF MINING CLAIMS & MILL SITES.

A LIST of the 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 Leave Mining Claim located in Warren Mining District, Cochise County, Arizona, showing the respective capacities in which they acted.

H. C. Stillman Chainman.
John W. Blair Chainman.
Axeman.
Flagman.

WE hereby certify that we assisted J. H. Headley U. S. Deputy Surveyor, in surveying The Cave Mining Claim claimed by Horace Jones located in Warren Mining District, Cochise County, and in Township No. _____ Range No. _____ of the Gila and Salt River base and meridian 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.

H. C. Stillman Chainman.
J. W. Blair Chainman.
Axeman.
Flagman.

SWORN TO AND SUBSCRIBED before me this 15th day of February 1884.

Sol Lunsburg
Notary Public

I, J. H. Headley U. S. Deputy Surveyor, do solemnly swear that, in pursuance of instructions from the U. S. Surveyor-General for Arizona, bearing date the 30 day of January 1884, 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 Cave Mining Claim claimed by Horace Jones located in Warren Mining District, Cochise 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.

J. H. Headley Deputy Surveyor.

SWORN TO AND SUBSCRIBED before me this 15th day of February 1884.

Sol Lunsburg
Notary Public



FINAL OATHS FOR SURVEYS OF MINING CLAIMS & 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 Cave Mining Claim located in Warren Mining district, Cochise County, Arizona, showing the respective capacities in which they acted.

H. B. Stillman Chainman.
Ben Williams Chainman.
~~_____~~
~~_____~~ Flagman.

WE hereby certify that we assisted J. H. Hoadley U. S. Deputy Surveyor, in surveying the Cave Mining Claim claimed by Horace Jones located in Warren Mining District, Cochise County, and in township No _____ Range No _____ of the Gila and Salt River base and meridian, 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.

H. B. Stillman Chainman.
Ben Williams Chainman.
~~_____~~ Axeman.
~~_____~~ Flagman.

SWORN TO AND SUBSCRIBED before me this 21st day of June 1884

Sol Lowenberg
Notary Public.

I, J. H. Hoadley U. S. Deputy Surveyor, do solemnly swear that, in pursuance of instructions from the U. S. Surveyor-General for Arizona, bearing date the 31st day of January 1884, 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 Cave Mining Claim claimed by Horace Jones located in Warren Mining District, Cochise 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.

J. H. Hoadley Deputy Surveyor.

SWORN TO AND SUBSCRIBED before me this 21st day of June 1884

Sol Lowenberg
Notary Public.



AFFIDAVIT OF FIVE HUNDRED DOLLARS IMPROVEMENTS.

We, *John Ambrose* and *J. W. Howell*

of lawful age, being first duly sworn according to law, depose and say that we are acquainted with the

Cave mining claim, situated in
Warren Mining District, *Cochise* County, Arizona
Territory, for which *Horace Jones* and

has 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 applicant and his grantor exceed Five Hundred Dollars in value, and further that we are not personally interested in said mine.

John Ambrose
J. W. Howell

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

SWORN to and subscribed before me, this *10th* day

of *February* 188*4*

Sol Lowenberg
Notary Public

Notice of location of the "Cave" Mining claim Notice
 is hereby given that the undersigned having
 complied with the laws of the United States and
 the local customs laws and regulations has this
 day located 800 feet more or less of this lode vein
 or deposit of Mineral bearing rock with all
 its dips spurs and angles situated in the Warren
 Mining District Cochise County Arizona together
 with surface ground and more particularly
 described as follows to wit: Beginning at a
 monument of stones on which this notice is
 posted and from which the center of a shaft
 on this claim bears $S 55^{\circ} 30' E$ 25 feet said
 shaft is $4\frac{1}{2} \times 7 \times 36$ and the West end Center
 Monument of the Holbrook patent survey
 bears $S 55^{\circ} 30' E$ 125 feet thence $N 34^{\circ} W$ 620
 feet to a monument of stones thence $70^{\circ} E$ 125
 feet to the Southwest corner of the Rucker
 claim thence $S 51^{\circ} E$ 590 feet to the Northwest
 corner of said Holbrook patent survey thence
 following the West end line of said Holbrook
 patent survey $S 25^{\circ} 30' N$ 460 feet to its inter-
 section with East side line of the Baxter
 patent survey to a monument of stones thence
 along said east side line of said Baxter
 survey $N 32^{\circ} W$ 580 feet to a monument of
 stones thence $S 84^{\circ} 30' W$ 128 feet along the
 North end line of said Baxter survey to the
 East center Monument of the Atlanta
 thence following the east end line of
 said Atlanta survey patent $N 8^{\circ} 56' W$ 145
 feet to a monument of stones thence

N 75° 30' E 128 feet to a monument before obtained
as above described thus closing the claim

This claim is bounded on the Southeast by
the Holbrook Mining claim and upon
the South West by the Butler and Atlanta
claims (all of which have been surveyed for
patent) about one fourth (1/4) of a mile South
east of Copper Queen Smelter and shall
be known as the "Cave" Mining claim

Dated on the ground this 22nd twenty second
day of June AD 1882

Witness

Horace Jones

H. E. Briggs

Joseph Russell

Filed and recorded at request of Horace
Jones June 23 1882 at 10.15 am

A. T. Jones County Recorder

Territory of Arizona,)
County of Cochise.) ss.

15A

H. A. T. 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 an instrument purporting to
be the Location Notice of the
Cave Mine

as appears of record now in my office in Book 5, Page 113

Records of Mines

IN WITNESS WHEREOF, I have hereunto set my

hand, and affixed my official seal, at my office in

Tombstone this 14th day of Jan A. D. 1884

A. T. Jones

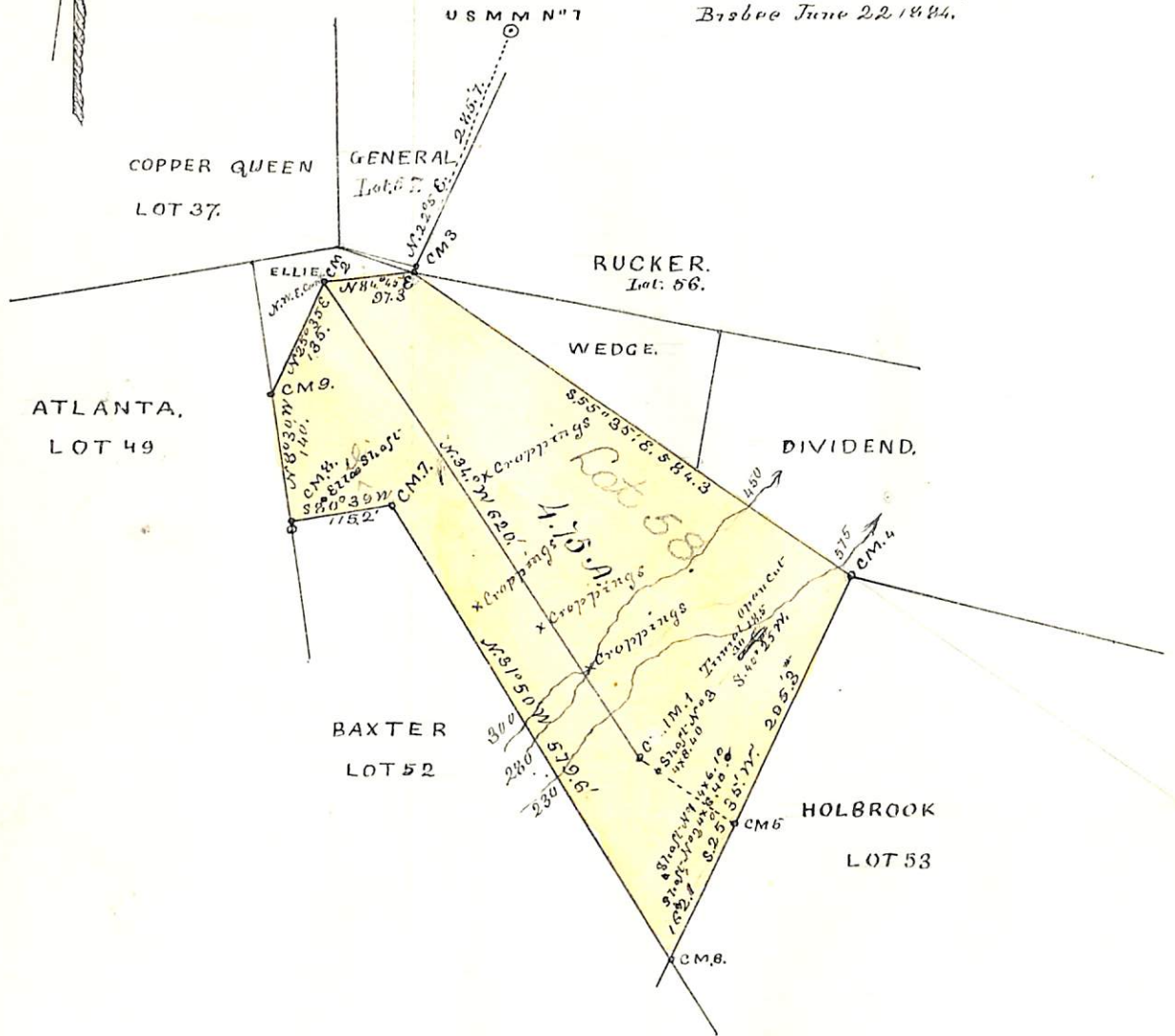
County Recorder.

Law Mill

The
Cave Mining Claim.

Warren Mining District
Cochise County
Arizona

J.H. Hadley
U.S. Dept. Min. Surveyor.
Bisbee June 22 1884.



From Sta C.M. 1	N. 30° W.	111.	to	Croppings Copper and Iron.
" " "	S 55° 30' E.	125.	"	W. Centre Holbrook Claim.
" " "	"	25.	"	Centre Shaft N° 3.
" " 2	N. 6° 35' W.	6.6	"	Oak 18" Diam. Markd. C.M. 2 B.T.
" " 4	S. 26° 45' E.	38.	"	Oak 12" Diam. Markd. C.M. 4 B.T.
" " "	S 60° 25' W	109.	"	Mouth Open Cut and Tunnel.
" " 3	S 20° 25' E	242.	"	Croppings, Copper and Iron.
" " 5	S 51° 45' W.	9 1/2	"	Shaft S° 1.4 x 6. 10.
" " "	S 31° 15' W	109.4	"	Shaft N° 2. 4 x 6. 40.
" " "	N 55° 30' W	109.	"	Shaft N° 3 4 x 6. 40.
" " "	S 79° 55' E	38.	"	Large Rock markd X
" " 6	S 76° 35' W.	75	"	Large Rock markd XX
" " "	S 8° 30' E.	15	"	E. Centre stake Atlanta.
" " 9	N 41° 5' E	52.	"	Oak 6" Diam. Markd C.M. 9 B.T.
" " 8	N 58° 5' E	30	"	Ellie Shaft. 3 1/2 x 6. 10.
" " 1	N. 48° 20' W.	247	"	Croppings, Copper and Iron.
" " 7	N 38° 5' W	180	"	Croppings, Copper and Iron.
" " 2	N. 28° 30' E.	42.1	"	S.E. Cor Copper Queen M.C.
" " 3	N. 24° 25' E	8.7	"	S.E. " General M.C.

U. S. Surveyor General's Office.

Tucson, Arizona, August 2, 1884

The foregoing field notes of the survey of the Cave

..... Mining Claim situate in
the Warren Mining District, Coconino
County, Arizona, claimed by Horace Jones.

.....
survey executed by J. H. Hoadley 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.

Royal C. Johnson
Surveyor General.