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### MINERAL SURVEY No. 4087

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6-822

Arizona Land District.

## FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

Elizabeth L, Wood

KNOWN AS THE

SENATOR	and	ALTO	lodes	 	

Old Hat Mining District,

Pinal County, Arizona.

Sections 19 and 20 , Township 10 S., Range 16 E.

Surveyed under instructions dated December 26 ......, 19 28

by Ma eveno U. S. Mineral Surveyor.

Claim located See	location notices.	, 19
Survey commenced	Jamuary 8	, 19 29
Survey completed	January 10	, 19 29
Address of claimant	E.T. Cusick, Tucson Atty. for Claimant	
DATES OF	AMENDED LOCATIONS	•
See location	n notices,	

#### MINERAL SURVEY NO. 4087. SENATOR Lode.

Beginning at Cor. No.l, identical with Loc. Mon. and Cor. No.2 Alto Lode of this Surveyn line 2-3, Sur. No.2155 A. Cross Town lode claimant herein at S.74°37'W.,631.1 ft. from Cor. No.2.

An iron pipe 2 ins. diam. with cap on top, 24 ins. above ground, set 18 ins. in the ground, stamped 1 S, 2 A -4087, with md of stone alongside, whence U.S. M. M. No.4 brs. N.46°46'20"E.1078.38 ft.

No other bearings are available.

Thence S.74°37'W. Va. 13°45'E.

75.0 Gulch brs. southeasterly.

Feet.

306.03 Intersect line 4-1 Sur. No.1837, Dolphin lode, claimant herein at S.32°25 'E.,460.39 ft. from Cor. No.1 and N.32°25 'W.,753.35 ft. from Cor. No.4.

315.55 To N. end center, identical with Loc. Mon.

A mesquite post 4 ins. diam. 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. S.

631.1 To Cor. No.2, identical with Loc. Mon. and Cor. No.3 Sur. No.2155 A Cross Town lode.

An iron pipe 2 ins. diam. with cap on top, 24 ins. above ground, set 18 ins. in the ground stamped 2 S., 4087, 3, C T - 2155 A. with md of stone alongside.

Cor. No.1 Sur. No.1837 Delphin lode brs. N.7 • 59 10"E., 479.53 ft... Cor. No.4, Sur. No.1837 Delphin lode brs. S.52 • 32 E., 903.7 ft.

No other bearings are available.

Thence S.51°14'E. Va. 13°45'E.

675.0 Gulch brs. northeasterly.

1498.0 To Cor. No.3, identical with Loc. Mon.

An iron pipe 2 ins. diam. with cap on top, 24 ins. above ground, set 18 ins. in the ground, stamped 3 S - 4087 with md of stone alongside . An oak tree 12 ins. diam. brs. S.85°22'W.,39.2 ft. blazed and scribed 3-4087 B.T

	MINERAL SURVEY NO. 4087.
	SENATOR Lode - Cont'd.
	No other bearings are available.
	Thence N. 74°37'E. Va. 13°45'E.
315.55	To S. end center, identical with Loc. Mon.
	An oak post 4 ins. diam. 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
	S. Cr. S.
631.1	To Cor. No.4, identical with Loc. Mon. and Cor. No.3 Alto lode of this
	survey. An iron pipe 2 ins. diam. with cap on top, 24 ins. above
	ground, set 18 ins. in the ground , stamped 4 S., 3 A 4087 , with
1	nd of stone alongside.
	An cak tree 7 ins. diam. brs. N. 4°33'W.,4.7 ft. Blazed and scribed
	4, 3 – 4087 B.T.
	No other bearings are available.
	Thence N. 51°14'W.
and a	Va. 13°45'E.
920.0	Gulch brs. northeasterly.
1250.0	Gulch brs. northeasterly.
1400.0	Gulch brs. easterly.
1498.0	To Cor. No.1, the place of beginning.
6820 A	ALTO Lode.
	Beginning at Cor. No.1, identical with Loc. Mon. and Cor. No. 2
	Sur. No.2155 A., Cross Town Lode. On line 5-6, Sur. No.687 Southern
. 2	Belle lode, claimant herein, at S.51°14'E.,596.16 ft. from Cor. No.6
	and N. 51°14'W., 879.21 ft. from Cor. No.5.
	An iron pipe 2 ins. diam. with cap on top, 24 ins. above ground,
	set 18 ins. in the ground, stamped 1 A - 4087, 2 C.T - 2155 A. with
	md of stone alongside, whence U.S. M. M. No.4 brs. N.17º14'30" E.,
	598.04 ft. Cor.Secs.17,18,19,20,T.10 S.,R.16 E., brs. N.18 41'W. 2031.4 ft. An oak tree 8 ins. diam. Brs. S. 36°50'E.,29.24 ft. Blazed and
	scribed 1- 4087, 2-2155 A. B.T.
	No other bearings are available.
incia M	Thence S. 74°37'W. Va. 13°45'E.
	To N. end center, identical with Loc. Mon.

N. Cr. A

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and surrounded with md. of stone 3 1/2 ft. base by 3 ft. high, scribed

Feet.	MINERAL SURVEY NO. 4087 . ALTO Lode- Cont'd.
631.1	To Cor. No.2, identical with Loc. Mon. and Cor. No.1 Senator lode
	of this Survey heretofore described.
. 592.	Thence S. 51°14'E. Va. 13°45'E.
98.0	Gulch brs. easterly.
248.0	Gulch brs. northeasterly.
578.0	Gulch brs. northeasterly.
1498.0	To Cor. No.3, identical with Loc. Mon. and Cor. No.4, Senator lode
	of this Survey heretofore described.
	Thence N. 74°37'E. Ve. 13°45'E.
315.55	
	An oak post 5 ins. diam. by 4 ft. high, set firmly in the ground
	and surrounded with md of stone 3 1/2 ft. base by 3 ft. high, scribe
	S. Cr. A.
631.1	To Cor. No.4, identical with Loc. Mon.
	An iron pipe 2 ins. diam. with cap on top, 24 ins. above ground,
0.002	set 18 ins. In the ground, stamped 4 A 4087, with md of stone
	alongside.
	An oak tree 6 ins. diam. brs. S. 50° W ., 14.7 ft.
	No other bearings are available.
	Thence N. 51°14'W.
(30 MO	Va. 13°45'E.
618.79	To Cor. No.5, Sur. No.687, Southern Belle Lode. , hereinafter
	described.
1320.0	Gulch brs. easterly.
1498.0	To Cor. No.1, the place of beginning.
	LODE LINES.
	As near as can be determined from the present developments, the
	veins of the several locations embraced in this claim, extend as
	follows from their respective discoveries.
	SENATOR LODE.
	350.0 ft. N.51°14 W., and 1148.0 ft. S. 51°14'E.
	ALTO LODE.
110 10152	30 .0 ft. S. 51°14'E., and 1468.0 ft. N. 51°14'W.

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#### MINERAL SURVEY NO. 4087

AREA.

Total area, Senator lode \_\_\_\_\_ 17.592 Area in conflict with,-Sur. No.1837 Dolphin lode \_\_\_\_\_ 2.900

Acres.

Total area, Alto lode. \_\_\_\_\_ 17.592

#### LOCATION

This survey is located in the W. 1/2 Sec. 20 and the E. 1/2 Sec. Unsurveyed, 19, T. 10 S. R. 16 E. Unsurveyed, in the Coronado National Forest. Old Hat Mining District, Pinal County, Arizona. EXPENDITURE OF FIVE HUNDRED DOLLARS.

I certify that the value of the labor and improvements made upon or for the benefit of each of the locations embraced in said mining claims by the claimant or her grantors is not less than five hundred dollars, and that said improvements consist of :

SENATOR Lode.

Noel The discovery cut, the face of which being the discovery point on the center line, 350.0 ft. from the center of line 1-2,4 1/2 ft. wide, 8 ft. face, running N.45°E., 20 ft. to mouth. Value \$100.0

No.2 A cut, the mouth of which brs. from Cor. No.1, South 250.0 ft., 4 1/2 ft. wide, 8 ft. face, running S. 45° W., 22 ft. to face. Value \$100.0

No.3 A cut, the mouth of which brs. from Cor. No.1, S. 43 W., 170.0 ft. 4 1/2 ft. wide, 8 ft. face, running S. 30° E., 20 ft. to face. Value \$100.0

No.4 A cut, the mouth of which brs. from Cor. No.1, S.13°30'E., 665.0 ft. 4 1/2 ft. wide, 10 ft. face, running S.75°W.,22 ft. to face. Value \$100.0 No.5 A cut, the mouth of which brs. from Cor. No.1 S.23°30'E.,735.0 ft., 4 1/2 ft. wide, 8 ft. face, (caved) running S. 60°E.15 ft. to face. Value \$100.0

No.6 A cut, the mouth of which brs. from Cor. No.1 S.26°E., 695.0ft 4 1/2 ft. wide 8 ft. face, running S. 60° E., 20 ft. to face. Value \$100.

No.7 A cut, the mouth of which is on the center line, 700 ft. from the center of line 3-4, 4 1/2 ft. wide, 10 ft. face running S. 60° E., 20 ft. to face. At face is a tunnel 4 x 6 ft. running S. 60° E.,5 ft. to face.

Value, Cut and tunnel \$ 150.0 No.8 A cut, the mouth of which brs. from Cor. No.3, N. 51°15' W., 45 ft. 4 1/2 ft. wide. 8 ft. face munning N 2000 10 ft to face

45 ft. 4 1/2 ft. wide, 8 ft. face, running N.20°E., 18 ft. to face. -4- Value \$ 100

MINERAL SURVEY NO. 4087.

EXPENDITURE OF FIVE HUNDRED DOLLARS - Cont'd.

ALTO LODE.

No.1 The discovery shaft, the center of which being the discovery point, on the center line, 30 ft. from the center of line 3-4.  $4 \ge 6$  ft. 10 ft. deep.

Value \$100.0

No.2 A shaft., the center of which brs. from Cor. No.1, S.25°E., 300 ft. 4 x 6 ft. 25 ft. deep.

Value \$250.0

Value \$100.0

No.3 A cut the mouth of which brs. from Cor. No. 1, S. 14°E., 250.0 ft. 4 ft. wide, 8 ft. face, running N. 60°W.15 ft. to face. Value \$100.0

No.4 A cut, the mouth of which brs. from Cor. No.1, S.10°30'E., 265. ft. 4 ft. wide, 8 ft. face, running N. 60° W., 15 ft. to face.

No.5 A tunnel, the mouth of which brs. from Cor. No.1, S.2°30'E., 275.0 ft. 4 x 6 ft. running West. 30.0 ft. to face. Value \$300.0

No.6 A cut, the mouth of which brs. from Cor. No.1 S. 6°30'E.,305.0 ft. 4 ft. wide, 8 ft. face, running West. 15 ft. to face. Value \$100.0

NO.7 A cut, the mouth of which brs. from Cor. No.2 S. 62°45'E., 775.0 ft. 4 1/2 ft. wide 8 ft. face (caved) running S. 10°E., 15 ft. to face.

#### Value \$100.

No.8 A cut, the mouth of which brs. from Cor. No.2 S. 60°E., 350.0 ft. 4 ft. wide 8 ft. face, running S. 10°E., 15 ft. to face. Value \$100.0

No.9 A cut, the mouth of which brs. from Cor. No.2, S. 57°30'E., 340.0 ft. 4 ft. wide, 8 ft. face, running S. 10°E., 15 ft. to face.

#### .Value \$100.0

#### 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 each location of this claim was run directly upon the ground , and the corners were established by running around the claims.

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## MINERAL SURVEY NO. 4087 REPORT - Cont'd.

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The Cor. to Secs. 17,18,19 and 20, T. 10 S, , R. 16 E. consists of a porphyry rock 10 x 12/ins. showing 12 ins. above ground, chiseled 5 notches on the E. and 3 notches on the S. face.

U.S. M.M. No.4 consists of a pine post 6 ins. sq. by 8 ft. high, set in md of stone 6 ft. base by 4 ft. high, scribed, "U.S.M.M.No.IV" Cor. Nos. 5 and 6, Sur. No.687 Southern Belle lode consist of pine posts properly set and scribed with the number of the corners and the initials "S.B." Line 5-6 fails to furnish the course and distance as approved ( N.51°16'W.,1485 ft.) and same is properly given in these field notes.

Sur. No.2155 A. Cross Town lode. All corners consist of pine posts properly set and scribed with the number of the corner and the survey. Line 2-3 fails to furnish the course as approved ,(S.75 °O6 'W.,) and same is properly given in these field notes. Cor. Nos. 2 and 3 were found to be in very badly decayed condition and unsuitable for permanent corners. I set iron pipe 2 ins. diam. with caps on top in the exact position of the originial corners, and stamped same with the number of the corners and the survey.

Sur. No.1837 Dolphin lode . All corners consist of redwood posts, properly set and scribed with the number of the corners and the survey. Line 4-1 fails to furnish the distance as approved (1217.7 ft.) and line 3-4 fails to furnish the course and distance as approved, (S.45°45.W.,600 ft.) and same are properly given in these field notes.

### ADJOINING CLAIMS.

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On the North by Sur. No.2155 A., Cross Town lode, On the East by Sur. No.687, Southern Belle lode, On the West by Sur. No.1837, Dolphin lode. There are no other adjoining or conflicting claims known. OATH OF ASSISTANT.

There being no Notary Public available within a long distance I proceeded to administer the necessary oath.

MINERAL SURVEY NO. 4087 do not include in copy SOLAR OBSERVATION. Direct solat observation taken Thursday, Jan. 10, 1929 at 9:37 abh A.M. Solar time. Sun bisected, - Lat. 32°32'45"- Lon.110°44' Difference in time 5 hrs. App't Dec'l = 21°59'24.1" Dec'l= 21°57'33 "  $\frac{\sin 1/2 \ A}{\cos L \cos h}$ 900 P= 111 °57 '33" L = 32°32'45" h = 24°55'57" (Appt h -24°58' Ref. - 2' 03" ) P =111 °57 ' 33" 2)169°26'15 S- 84 °43 '08" S-L = 52°10'23" 9.8975538 S-h = 59 °47 '11" 9.9365918 0.0741923 0.0424860 2) 19.9508239 9.9754119 = 70°54'05" - 1/2 A. 141°48'10" - A. 180° - 141°48'10" = S.38°11'50"E - Bearing of Sun. 67°11'+ - Ang. to left from Sun. 105°23' 180° - 105° 23' - N.74°37'E. - Bearing of line. Set up at E. end center Senator lode, F.S. to Cor. No.4.

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## FINAL OATHS FOR SURVEYS.

### LIST OF NAMES.

A list of the names of the individuals employed byT.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	
Elizabeth L. Wood	
known as the SENATOR and ALTO lodes	
and showing the respective capacities in which they acted.	
Ramon Ronquillo , Cl	h <b>ainman.</b>
, <i>C</i> 7	iainman.
, A:	xman.

-----, Flagman.

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## FINAL OATHS OF ASSISTANTS.

We, I. Ramon Ronqu	1110	
	I , do solemnly swear that we ass	:4.3
whice	, do solemniy swear that we ass	sisted
T.N. Stevens	, United States Mineral Surveyor, in marking	g the corners and surveying
the boundaries of the minin	g claim of Elizabeth L. Wood	
known as the	SENATOR and ALTO Lodes	
represented in the foregoing	field notes as having been surveyed by said min	eral surveyor and under his
direction; and that said surv	ey has been in all respects, to the best of our know	vledge and belief, faithfully
and correctly executed, and the	e corner and boundary monuments established acco	ording to law and the instruc-
tions furnished by the Office	Cadastral Engineer, at Phoenix, Arizona	
	Ramon Ronquill	Ø.,, Chainman.
		, Chainman.
		, Axman.
		, Flagman.
	ed and sworn to by the above-named persons befor	re me this Ath .
day	Melnuary , 1929	1
	O N. Ol	evens.
	M Min	eral Sunnyer

## FINAL OATH OF U.S. MINERAL SURVEYOR

I,, U. S. Mineral Survey	vor,
do solemnly swear that, in pursuance of instructions received from the Office Cadast	ral
Engineer, at Phoenix, Arizona , dated December, 26, 1928	
I have, in strict conformity to the laws of the United States, the official regula	- /
tions and instructions thereunder, and the instructions of said Office Cadastral	
Engineer, faithfully and correctly executed the survey of the Mining Claim of	
Elizabeth L. Wood , known as	the
Senator and Alto lodes	,
situate in Old Hat Mining Distric	ct,
Pinal County, Arizona, in Section	ion <sup>s</sup>
19 and 20 Unsur, Township No. 10 S., Range No. 16 E.	
and designated as Survey No. 4087 , as represent	ted
in the foregoing field notes, which accurately show the boundaries of said mining cla	aim
as distinctly marked by monuments on the ground, and described in the attached copy	y
of the location certificate, which was received by me from the Office Cadastral Eng	gi-
neer with said instructions, and that all corners of said survey have been establish	ied
and perpetuated in strict accordance with the law, official regulations and instruc	)-
tions thereunder; and I do further solemnly swear that the foregoing are the true a	ind
orginal field notes of said survey and my report therein, and that the labor expend	leđ
and improvements made upon said mining claim by claimant or .her	
grantors are as therein fully stated, and that the character, extent, location, and	
itemized value thereof are specified therein with particularity and full detail, an	d
that no portion of said labor or improvements so credited to this claim has been in	-
cluded in the estimate of expenditures upon any other claim.	
// N. Otaria	
U. S. Mineral Surveyor.	
of m et 1	

Subscribed and sworn to by the said <u>I. M. Stevens</u> U. S. Mineral Surveyor, before me <u>Maebelle Iteas</u> a notary Oublic in and far Prima Caunty this <u>5</u>th day of <u>March</u>, 1929 My commission expire Feb. 1, 1932

natary Public

4-688

### OFFICE CADASTRAL ENGINEER'S FINAL CERTIFICATE ON FIELD NOTES

# Department of the Interior

PUBLIC SURVEY OFFICE

Phoenix, Arizona,

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07

			Maren 23	19_29
I, Office Cadastral ]	Engineer . at Phoen	oix, Arizona,		
do hereby certify that th	e foregoing transcript of	the Field Notes, ret	urn and approval of the s	survey
of the mining claim of				
	Elizabet	h L. Wood		
known as the	SENATOR and	ALTO LOCES		
situate in	<u>610</u>	Rat		
Mining District	Pinal	County	Arizona	
in Section <b>5 19 and</b> ,	Township No. 10 S	, Range No	16 E.	, and
designated as Survey No	. 4087 , h	as been correctly cop	ied from the originals on	file in
this office; that said Fiel	d Notes furnish such an	accurate description	of said mining claim as	will, if
ncorporated into a patent	, serve fully to identify t	he premises, and that	such reference is made tl	herein
to natural objects or perm	nanent monuments as v	vill perpetuate and fi	x the <i>locus</i> thereof.	

I further certify that Five Hundred Dollars worth of labor has been expended or improvements made upon, or for the benefit of, each location embraced in said mining claim by claimant \_\_\_\_\_\_\_ or \_\_\_\_\_\_\_ prantors, and that said improvements consist of \_\_\_\_\_\_ Shafts, 14 cuts and 2 tunnels, \_\_\_\_\_\_\_\_ total value \$2100.

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

VERNMENT PRINT

John D. Adams

Office Cadastral Engineer.

## CERTIFICATE OF APPROVAL OF FIELD NOTES AND SURVEY OF MINING CLAIM

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4-687

### DEPARTMENT OF THE INTERIOR PUBLIC SURVEY OFFICE

AtPhoenix, Arizona,	
March 23	, 192 9
I, Office Cadastral Engineer atPhoenixArizona ,	
do hereby certify that the foregoing and hereto attached Field Notes and Return of the Sur	vey of the
Mining Claim of	
Elizabeth L. Wood	
, kno	wn as the
SENATOR and ALTO lodes	
situate in Old Hat mining	g district,
Pinal County, Arizona,	
in Sections 19 & 20 Unsur., Township No. 10 S., Range No. 1	<u>6 e.</u>
, designated as Survey No4087	
executed by, U. S.	. Mineral
Surveyor, Jamiary 8 - 10, 19 29, under my instruction	ons dated
December 26, have been critically examined and the	
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 inclu	ded and
made a part of the transcript of the field notes.	)

Office Cadastral Engineer.

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