MINERAL SURVEY No. 3972

	Arizo	ona	Land District.		
		ELD NO			
			ning and Development Co.		
		KNOWN AS THE			
	MAMMOTH	EXTENSION and AV	ON TRIANGLE Lodes.		
		Old Hat	Mining Distric	t,	
	Pinal	County,	Arizona.		
ection	26 , Tow	nship 8 S.	, Range 16 E.		
	yed under instructio				
		by	N. S. Mineral Surveyor		
	Claim located	See location not	tices , 19		
	Survey commenced.	February 3	, 19 25		
	Survey completed	February 4	, 19 25		
	P.O. Box 45, Tuc	son Arizona.	y, Atty in fact for claimant,		
	DATES O	F AMENDED LOC	CATIONS.		

Feet.

MINERAL SURVEY NO. 3972

MAMMOTH EXTENSION Lode.

Beginning at Cor. No.1, identical with Loc. Mon.

An iron pipe 1 in. diam. with cap on top, 18 ins. above ground, set 18 ins. in the ground, stamped 1 ME - 3972 with md of stone alongside, whence the 1/4 Cor. bet. Secs. 26 and 27, T. 8 S., R. 16 E. brs. N. 69° 30' W., 439.67 ft.

No other bearings are available.

300.0 To W. end Center, identical with Loc. Mon.

A pine post 4 ins. sq 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 W. Cr. M E.

To Cor. No.2 Sur. No.806 Mars lode and on line 5-6 Sur. No. 804

18'30"

Raven lode at N.60°, W., 152.97t. from Cor. No.6, both claimant herein.

594.01 To Cor. No.2, identical with Loc. Mon., on line 5-6 Sur. No.807

Remnant lode at N. 44°49' W.,422.84 ft. from Cor. No.6 and S.44°49'E.,

1071.01 ft from Cor. No.5.

An iron pipe 1 in. diam with cap on top, 18 ins. above ground, set 18 ins. in the ground, stamped 2 M E -3972 with md of stone alongside.

Cor. No.6 Sur. No.804 Reven | lode brs. S.1°02' 30" E.,199.0 ft.

No other bearings are available.

Thence S. 44° 49' E. Va. 13°30' E.

106.31 Intersect line 6-2-Sur. No.804 Raven lode at N. 30° E.,142.64 ft.

from Cor. No.6

299.72 To Cor. No.3 Sur. No.802 Mammoth lode.

315.07 To Cor. No.3, identical with Loc. Mon. and Cor. No.1 Sur. No.2999

Rooster lode, Claimant unknown.

An iron pipe 1 in. diam. with cap on top, 18 ins. above ground, set 18 ins in the ground, stamped 3 M E - 3972, 1 R - 2999 with md of stone alongside.

Cor. No.6 Sur@ No.807 Remnant lode brs. S. 44°49° E., 107.77 ft.

No other bearings are available.

MINERAL SURVEY NO. 3972 Feet. MALMOTH EXTENSION Lode - Cont'd. Thence S. 46°22' W. 293.01 To E. end center, identical with Loc. Mon. A pine post 4 ins. sq. 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 · 大学 20 . 经数 . 有名既 . 发 . 表 E. Cr. ME. Intersect line 4-1 Avon Triangle lode of this Sur. at N.48°51'30"W. 580.0 538.99 ft. from Cor. No.4 and S.48°51'30"E.,193.35 ft from Cor.No.1. To Cor. No.4, identical with Loc. Mon. and Cor. No.5 Sur. No.802 593.01 Mammoth lode, Cor. No. 3 said Mammoth lode brs. N. 44°53'E., 592.9 ft. An iron pipe 1 in. diam. with cap on top, 18 ins. above ground, set 18 ins. in the ground, stamped 4 M E - 3972, 5 M - 802 with md of stone alongside. No bearings are available. Thence N. 45° W. Va. 13°30' E. To Cor. No.1 Avon Triangle lode of this Sur., hereinafter described 192.6 and on line 5-2 Sur. No. 806 Mars lode at N 29°50' E., 162 ft. from Cor. No.5 and S. 29°50' W., 430.35 ft. from Cor. No.2 To Cor. No.1, the place of beginning. 315.1 AVON TRIANGLE Lode. . . . Beginning at Cor. No.1, identical with loc. Mon. On line 5-2 Sur. No. 806 Mars lode at N. 29°50' E., 162 ft. from Cor. No.5 An iron pipe 1 in. diam: with cap on top, 18 ins. above ground set 18.ins. in the ground, stamped 1 A T - 3972 with md of stone alongside whence the 1/4 Cor. bet. Secs. 26 - 27 T. 8 S. R. 16 E. brs. N.64° 14' W.,553.49 ft. . Cor. No.4. Mammoth Extension lode of this Sur. and Cor. No.5 Sur. No. 802 Hammoth lode brs. S. 45° E., 192.6 ft. No other bearings are available. Thence S. 29°50' W. Va. 13°30' E. To W. end center, identical with Loc. Mon. 112.0

A pine post 4 ins. sq 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

-2-

W. Cr. A T.

MINERAL SURVEY No. 3972

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 discovery points:

MANMOTH EXTENSION Lode.

115.1 ft. N.45° W., and 200 ft. S. 45° E.

AVON TRIANGLE Lode.

75.0 ft. N. 54°34' W., and 643.86 ft. S. 57° 34' E.

AREA.

	Acres.
Total area Mammoth Extension lode	4.292
Area in conflict with,	
Sur. No. 806 Mars lode	
Sur. No. 804 Raven lode	0.468
Sur. No. 802 Mammoth lode	,0.104
Avon Triangle lode of this Sur	c 0.029
Exclusive of its conflict with	1"- comevant authorização en un la companya de la c
Sur. No. 802 Mammoth lode	0.029
	to bertie events out the
Total area Avon Triangle lode	1.756
Area in conflict with,	
Sur. No. 802 Mammoth lode	0.392

The survey of each lode of this location is identical with the respective locations as staked upon the ground.

LOCATION. Signature and a second seco

This survey is located in the W 1/2 Sec. 26, T. 8 S. R. 16 E., G. & S. R. M.

----000----

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 claim by the claimant or its grantors is not less than five hundred dollars, and that said improvements consist of:

MAMMOTENETENSEONnLode.

No.1 The discovery shaft, on the lode line 115.1 ft. from a point on line 1-2, 300 ft. from Cor. No.1, 4 x 6 ft., 10 ft. deep. Value \$100.0

No. 2 A shaft, the center of which brs. from Cor. No.3 S.68°30' W.,

310 ft. 4 x 6 ft. 15 ft. deep.

Value \$150.0

No. 3 A tunnel, the mouth of which brs. from Cor. No.3 S. 86° W.,

210 ft., 4x6 ft. running S.86° 7., 40 ft. to face. Value 400.0

MINERAL SURVEY NO. 3972

EXPENDITURE OF FIVE HUNDRED DOLLARS - Cont'd.

MAMMOTH EXTENSION Lode.

No.4 A shaft, on the lode line 10 ft. from a point on line 3-4
300 ft. from Cor. No.4 4 x 6 ft. 80 ft. deep.

Value \$800.0

No.5 A tunnel, the mouth of which.brs. from Cor. No.4 N.14° E.
60 ft., 4 x 6 ft. running S. 36° W., 170.0 ft.
Value \$1700.0

AVON TRIANGLE Lode.

No.1 The discovery shaft on the lode line, 75 ft. from a point on line 1-2 at N. 29°50' E. 50' ft. from Cor. No.2, 4 x 6 ft. 40 ft deep.

Value \$400.0

No 2 A tunnel, the mouth of which brs. from Cor. No.3 N. 49° 30' W 430 ft., 4 x 6 ft. running N. 85° W., 50 ft. to face.

Value \$500.0

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 tis claim was run directly upon the ground, and the corners were established by running around the claims.

All tie lines were run directly upon the ground.

The 1/4 Cor. bet. Secs. 26 and 27 T 8 S. R. 16 E. consists of an oak post 4 ins. sq by 4 ft. high, surrounded with md of stone, scribed 1/4 S. 26, S 27, T. 8 S. R. 16 E.

Sur. Nos 698,699, 802, 804, 806,801,2999, Hackney, Aaven, Mammoth Raven Mars Remnant and Rooster lodes respectively. All corners consist of pine posts set in mds of stone, all of which are in badly decayed condition but can be identified as the originial corners.

Cor. Nos 6, 2 and 5, Sur. Nos 698, 699 and 806, Hackney, Aaven and Mars lodes respectively also Cor. No.5 Sur. No.802 Mammoth lode

end Cor.

MINERAL SURVEY NO. 3972

Report - Cont'd.

and Cor. No.3 Sur. No. 2999 Rooster lode were badly decayed and unsuitable for permanent corners, I set iron pipe 1 in. diam, capped in the exact position of the original corners and stamped same with the number of the corners and the surveys.

Line 5-2, Sur. No. 806 Mars lode fails to furnish the course and distance as approved (N 30° E 600 ft), line 2-3 Sur. No. 699 Aaven lode fails to furnish the course and distance as approved (S57°30° E. 1040 ft), Line 3-5 Sur. No. 802 Mammoth lode fails to furnish the course and distance as approved (S45° W.,600.0 ft), Line 5-6 Sur. No. 807 Remnant lode fails to furnish the course and distance as approved (N.45°W 1500 ft.), Line 5-6 Sur. No.804 Raven lode fails to furnish the course and distance as approved (N.60° W., 1500 ft.), line 6-2 fails to furnish the distance as approved (600 ft.) and the above are properly given in these field notes.

The location notice of the Avon Triangle describes a full claim. As my survey is identical with the monuments on the ground, apparently the location notice is in error.

ADJOINING CLAIMS.

On the North - Sur. No.s 804, and 807 Raven and en, Remnant and

On the East - Sur. Nos. 802 and 807, Mammoth and Remnantolodes respectively.

On the South - Sur. No. 699 Aaven lode .

On the West of Sur. Nos. 658, 806, and 804, flackney, Mars and Raven lodes respectively.

SOLAR OF MERVATION.

MINERAL SURVEY NO. 3972

do not include in Transompt

SOLAR OBSERVATION.

Direct Solar observation taken Tuesday Feb. 3, 1925.

1:52 P.M. solar time- Sun bisected/- Lat 32°43' 30" - Lon. 110° 41' Difference in time 9 h 15 m

Apparent declination 16° 34' 48.5" 6' 47" declination =16° 28' 02"

P = 90° + Dec'1 = 106° 28' 02"

L = 32°43'30" Sin 1/2 A = $\sqrt{\sin (S-L)(S-H)}$ H = 34°38'37"-App't H-34°40' Cos L Cos H P = $\frac{106°28'02"}{173°50'09"}$ $\frac{1'23"}{34°38'37"}$ 86°55'04"-S

S-L = 54°11'34" 9.9090155 S-H = 52°16'27" 9.8981479 0.0750620 0.0847564 9.9669818 = 9.9834909 = 74°18'05" = 1/2 A. 148°36' 10" = A.

180° - 148°36' 10" = S31° 23' 50"W = bearing of sun.

76°23' 50" Ang. to left from sun.

S 45° 00' 00" E. = Course of line.

Set up at Cor. No.1 Avon Triangle lode, FS to to Cor. No.4 Mammoth Extension lode.

FINAL OATHS FOR SURVEYS.

LIST OF NAMES.

A list of the names of the individuals emp	ployed by T. N. Stevens	
United States Mineral Surveyor, to assist in		
boundaries described in the foregoing field not		
St. Anthony Mining and Do		
known as the MAMMOTH EXTENSION as	nd AVON TRIANGLE Lodes.	4
and showing the respective capacities in which		
	S. C. Wood	Chainman
		, Flagman.
FINAL OATHS	S OF ASSISTANTS.	
-We, I,S. C. Wood,		
and	I	
and, T. N. Stevens	do solemnly swear that we assisted	
T. N. Stevens , United States ;	Mineral Surveyor, in marking the corner	s and surveying
the boundaries of the mining claim of St. Ar		
known as the MANIOTH EXTENSION and A		•
represented in the foregoing field notes as having		
direction; and that said survey has been in all res	spects, to the best of our knowledge and l	pelief, faithfully
and correctly executed, and the corner and boundar	y monuments established according to law	and the instruc-
ions furnished by the United States Surveyor-Gene	eral for Arizona.	
ions furnished by the United States Surveyor-Gene	SC Wood	, Chainman.
		Axman.
	e above-named persons before me this	
day of march		
My Commission expires Feb. 6 1928	maibelle Hess Tolang Que	11:
lapines 1et. 6, 1928	Latay Su	6—1048

FINAL OATH OF U.S. MINERAL SURVEYOR.

I, T.N. Stevens	, U. S. Mineral Surveyor
do solemnly swear that, in pursuance of	instructions received from the United State
Surveyor General for Arizona	, date
December 13, 1924	I have, in strict conformity to the laws of th
United States, the official regulations and	instructions thereunder, and the instruction
of said Surveyor General, faithfully and of	correctly executed the survey of the Mining
Claim of St Anthony M	ining and Development Co.
	, known as the
MAMMOTH EXTENSION and AVO	N TRIANGLE Lode?
situate in Old Hat	Mining District
Pinal	County,, in Section
26, Township No8 S. , Rar	nge No. 16 E., G. & S. R. M.
and designated as Survey No. 3972	as represented
in the foregoing field notes, which accurate	ly 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 receiv	red 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 th	nat 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	be aliment the labor expended and
are as therein fully stated and that the ch	by claimant oritsgrantors
are as therein fully stated, and that the ch	aracter, extent, location, and itemized value
thereof are specified therein with particular	ity and full detail, and that no portion of
said labor or improvements so credited to the of expenditures upon any other claim.	
or expenditures upon any other claim.	
	U.N. Dlenan
	U. S. Mineral Surveyor.
	The second secon
Subscribed and sworn to by the said	I'M Strange
	Nuchelles 7 Hers a notory Dublic
in and for the launter	of Rime 11: 2 d
day of March , 1928	this 30-4
, 1920	
	Muchelle Head
My Commission 5-1044 expiris 7 eb. 6, 1918	notary Bublic
5-104 expuis 7 eb. 6, 1918	nolary Sublic

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

Department of the Interior,

OFFICE OF U. S. SURVEYOR-GENERAL,

	Phoenix, Arizona
	May 5 , 1925
I, U. S. Surveyor	-General for Arisona
	the foregoing transcript of the Field Notes, return and approval of the surve
of the mining claim or	f
	St. Anthony Mining and Development Co.
known as the	MAMMOTH EXTENSION and AVON TRIANGLE lodes
situate in	Old Hat
Mining District,	Pinal County, Arizona
in Section 26	, Township No 8 3, Range No 16 E, and
designated as Survey 1	No, has been correctly copied from the originals on file in
this office; that said F	field Notes furnish such an accurate description of said mining claim as will, if
incorporated into a pat	ent, serve fully to identify the premises, and that such reference is made therein
to natural objects or pe	rmanent monuments as will perpetuate and fix the locus thereof.
	tify that five hundred dollars' worth of labor has been expended or improve-
ments made upon said	f mining claimsby claimant or its grantors, and that said improvements
consist of 3 tunne	els, total value \$4050.
4	
and that no portion of s	aid labor or improvements have
pon any other claim.	aid labor or improvements has been included in the estimate of expenditures
	t the plat thorough flad to the real to the plant thorough flad the plant thorough flad to the plant thorough flad the plant the plant thorough flad the plant the plant the plant thorough flad the plant the pla
Arizona.	is correct and it and office atPhoenix.
	is correct and in conformity with the foregoing Field Notes.
	Charles M. Donohoe
	United States Surveyor-General for Arizona.
6 2931	State State of the Control of the Co

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,	*******
			May 5	, 192 5
I, U. S. Surveyor General for	Arizon	<u>a</u>		
do hereby certify that the foregoing and herete	o attached Field	d Notes and	Return of the S	urvey of the
Mining Claim of				
St. Anthony M	ining and	<u> Nevelopme</u>	nt Co.	
		***************************************	, k	nown as the
MANJOTH EXTENS				
situate in				
Pinal C				
in Section26, Township				
, designated as Survey				
executed byT. N. Ster				
Surveyor,Fehruary 3 - 4				
December 13 , 1				
corrections and explanations made, and the said				
are hereby approved. The certified copy of the				
on file in this office and a true copy of said cer				
made a part of the transcript of the field notes.		1000000	octomoste is m	DILK, Dennic
	Charles	24. 4		
	Juries	14.00	ononoe	2.
GOVERNIMENT PRINTING OFFICE	U. S. Surv	eyor General f	or Arizona.	•