4-688

UNITED STATES DEPARTMENT OF THE INTERIOR GENERAL-LAND-OFFICE

BUREAU OF LAND MANAGEMENT

MINERAL SURVEY NO. 4342

Land District.	
FIELD NOTES	
Of The Survey Of The Mining Claim Of	
St Anthony Mining & Development Company, Ltd	
Known As The	
TORNADO	
Old Hat Mining Distri	.ct
Pinal County, Arizona	
ction 27 Township 8 S., Range 16 E.	
Surveyed under instructions dated August 19 1949	
11/0/00	
U. S. Mineral Surveyor	
Claim leasted February Sultane	
Claim located February 2nd, 1901	
Survey commenced August 24 , 19 49	
Survey completed August 29 , 19 49	
Address of claimant Howard A. Twitty, its Attorney, Phoenix,	AT:
DATES OF AMENDED LOCATIONS	
July 22, 1949	

DEPARTMENT OF THE INTERIOR CHEERAN LAND CITAGE BURNING OF LAND CHARLES

MINIRAL SURVEY NO. 454

ADDRESS NAME OF THE PROPERTY O
is inchory mining a Neveloppent Company, and
Interior County
eagl. At the parties and the control to be covered
Sold International Property and the Sold State of State o
BALKE AS THERE THE PERSON WHEN THE
PALEL
ens , winesas
EMPERADOLE DEGICINA TO PERSON
2001 .22 1949

1.

This survey was made with a Buff & Buff Transit No. 25780 with horizontal limb 5 ins. diam., having two opposite verniers and full vertical circle 4 ins. diam., having one double vernier; the verniers read to one minute of arc. The instrument was in good condition at the time of the survey and all'adjustments were in good order.

All azimuths in this record were determined by the method of deflection angles referred to the meridian

determined by the following observation.

August 24, 1949 at Cor. No. 1 of the Tornado lode in latitude 32°42'28" and longitude 110°41'30", I make a series of six altitude observations upon the sun for azimuth at approximately equal time intervals, three each with the telescope in direct and reversed positions. bisecting the sun and reading the horizontal angle from the reference point SW. to the sun.

Mean time of observation, 105th 2h 50^m p.m. 2h 27^m p.m. meridian Standard time Apparent time Declination of sun at mean time of observation 10° 59' 32" Mean observed vertical angle to sun's 51° 04' 00" center Mean horizontal angle from reference point to sun's center True bearing of reference point 35° 12' 40" 'S. 29° 04' W.

The lines were measured with a Lufkin steel tape 500 feet in length, graduated every foot, with the last foot graduated to tenths and hundredths and a 100 foot steel tape graduated to feet, tenths and hundredths; both tapes were compared with a standard and were correct at the time of the survey.

All lines and connections of this survey were run by

direct methods.

The magnetic variation observed at each corner of the survey gave a uniform value of 15° E.

Feet

TORNADO LODE

Cor. No. 1 of the Tornado lode, identical with Cor. No. 5, Sur. No. 698 Hackney lode, on line 4-5 Sur. No. 806 Mars lode, both belonging to claimant herein, is monumented by a pine post, 4 ins. sq., firmly set and properly marked; being badly decayed, I remove the post and in its place

Set an iron post, $3\frac{1}{2}$ ft. long, 2 ins. diam., 18 ins. in the ground, surrounded by a mound of stone to top with leaden cap mkd. 1 T-4342, 5 H-698; from which

The 4 sec. cor. of Secs. 26 and 27, T. 8 S., R. 16 E., bears S. 67° 16' E., 852.08 ft. dist.; a very old weathered post, 4 ins. sq., 4 ft. high, firmly set in mound of stone mkd. XXVII on W. face and XXVI on E. face.

Cor. No. 3, Sur. No. 698 Hackney lode, bears S.30° 40'W., 593.83 ft. dist.

Point for Cor. No. 4, Sur. No. 806 Mars lode, as determined from the record, bears N. 60° W., 95 ft. dist. Find no evidence of corner.

4-678 b

Survey No. 4342

2	Survey No. 4342
Feet	No local bearing objects are available.
. medb	Thence S. 29° 04' W.
200	Enter Tucson Wash, 50 ft. wide, course northerly. Power line bears northwesterly.
250	Leave Tucson Wash.
300.0	Lode line; discovery point bears N.60° 56' W., 50 ft. dist.
for agus	Set a 2 inch open pipe, 4 ft. long, firmly in the ground and surrounded by a mound of stone, mkd. E. Cr. Tor.
594.11	Intersect line 2-3, Sur. No. 698 Hackney lode at a point from which Cor. No. 3 bears N. 59° 07' 30" W., 16.59 ft. dist.
600.0	Cor. No. 2.
"00	Set an iron post, 3½ ft. long, 2 ins. diam., 18 ins. in the ground, surrounded by a mound of stone to top, with leaden cap mkd. 2 T-4342; from which
*01	Cor. No. 3 Sur. No. 698 Hackney lode bears N. 39°48' W., 17.78 ft. dist.
002 as	Thence N.60° 56' W.
1459.03	Cor. No. 3 on line 1-2, Sur. No. 4343 Ben Hur lode, claimant herein.
tu toe ve mr	Set an iron post, 3½ ft. long, 2 ins. diam., 18 ins. in the ground to bed rock, surrounded by a mound of stone to top with leaden cap mkd. 3 T-4342.
egit to	Cor. No. 2 Sur. No. 4343 Ben Hur lode, bears S. 61° 09' W:, 118.4 ft. dist., and Cor. No. 1 bears N. 61° 09' E., 481.6 ft. dist.
	No local bearing objects are available.
100	Thence N. 29° 04' E.
300:0	Lode line; discovery point bears S. 60° 56' E., 1409.03 ft. dist.
eda Tafa an	Set a pine post, 4 ins. sq. by 4 ft. long, firmly in the ground and surrounded by a mound of stone mkd. W. Cr. Tor.
568.41	Intersect line 4-1 Sur. No. 4343 Ben Hur lode at a point from which Cor. No. 1 bears S. 28° 51' E., 301.92 ft. dist.
600.0	Cor. No. 4.
	Set an iron post, $3\frac{1}{2}$ ft. long, 2 ins. diam., 18 ins. in the ground, surrounded by a mound of stone to top with leaden cap mkd. 4 T-4342; from which
	Cor. No. 1 Sur. No. 4343 Ben Hur lode, bears S.24° 03' E., 319.82 ft. dist.
₹ 250	No local bearing objects are available.

	Survey No. 4542
Feet	Thence S. 60° 56' E.
385	Enter wash; 50 ft. wide, course south 60° E.
880	Power line bears N. 74° W.
1070	Power line bears N. 34° 40° W.
1320	Leave channel Tucson Wash.
1459.03	Cor. No: 1 and place of beginning.
	Value, COP4.50
eraso (AREAS OCCUPANTAL ACTOS
• 4	Total area Tornado lode 20.097 Area in conflict with:
nisomi no loče,	Sur. No. 698 Hackney lode 0.113 Sur. No. 4343 Ben Hur lode 1.669
4 4	LOCATION .
; ; ;	This survey is located in the NE and SE Sec. 27, T. 8 S., R. 16 E., G. & S.R.Mer.
0 t 3	The survey of the Tornado lode is identical with the location as marked on the ground.
A SELECT	EXPENDITURES
66.08 05 .43	The improvements and the value of the labor and improvements made upon or for the benefit of the lode location embraced in said mining claim by the claimant or its grantors are as follows:
No. 1	The discovery shaft of the Tornado lode, the center of which being the discovery point is on the center line, 50 ft. from the center of line 1-2, 10 x 10 ft., 12 ft. deep, at the collar of which is a cut 4 ft. wide, 10 ft. face, running S. 30° W., 12 ft. to face. At the bottom of shaft, is a tunnel 4 x 6 ft. in size running N. 57° E., 30 ft. to daylight (mouth). Value shaft, cut and tunnel, \$1080.0
No. 2	A cut, the mouth of which bears from Cor. No. 1 Tornado lode, S. 48° 34' W., 320 ft., 5 ft. wide, 7 ft. face, running S. 57° W., 10 ft. to face. At face is a tunnel 4 x 6 ft. in size running S. 57° W., 3 ft. to caved face. Value, \$130.0
No. 3	A tunnel, 4 x 6 ft. in size, the portal of which bears from Cor. No. 4 Tornado lode, 5. 1° 56' E., 390 ft. dist. running S. 55° W., 6 ft. to breast. Value, \$120.0
No. 4	A tunnel, 4 x 6 ft. in size, the portal of which bears from Cor. No. 4 Tornado lode S. 23° 26' E., 340 ft. dist. and runs west 6 ft. to breast. Value, \$120.0
No. 5	A cut, the mouth of which bears from Cor. No. 4 Tornado lode, S. 20° 34' W., 360.0 ft. dist., 12 ft. wide, 12 ft. face, running S. 75° W., 12 ft. to face. At the

4	Survey no. 4342
Feet	SW. corner of cut is a tunnel 4 x 6 ft. in size running S. 45° W., 12 ft. to breast, and at the NW. corner of cut is a tunnel 4 x 6 ft. in size running N. 70° W., 10 ft. to breast. Value, cut and tunnels, \$640.0
No. 6	A tunnel, 5 x 7 ft. in size, the portal of which bears from Cor. No. 4 Tornado lode S. 48° 11' E., 432.0 ft. dist. and runs S. 66° W., 89.3 ft. to Sta. 1; thence S. 29° 50' W., 220.5 ft. to Sta. 2; thence S. 19° 40' W., 72.5 ft.; thence S. 31° 00' W., 95.0 ft. to breast. Value, \$954.60
No. 7	A 10 inch drill hole (cased) the center of which bears from Cor. No. 4 Tornado lode S. 49° 26' E., 450.0 ft. dist., 435.0 ft. deep and connecting with the 800 ft. level of Mammoth lode, Sur. No. 802. Value, \$4,350.00
No. 8	A drift 5 x 7 ft. in size on 800 ft. level of Mammoth mine, Sur. No. 802 at a point on line 1-2 Tornado lode, 255.22 ft. from Cor. No. 1, running N.53° 50' W., 142.3 ft. to Sta. 802; thence S. 82° 10' W., 148.27 ft. to Sta. 803; thence N. 55° 42' W., 62.48 ft. to Sta. 804; thence N. 70° 54' W., 52.30 ft. to Sta. 805; thence N. 37° 52' W., 57.32 ft. to Sta. 806; thence N. 38° 55' W., 42.93 ft. to Sta. 807; thence N. 56° 15' W., 187.2 ft. to Sta. 808; thence N. 63° 37' W., 96.15 ft. to Sta. 809; thence N. 67° 47' W., 106.43 ft. to Sta. 810; thence N. 60° 05' W., 99.80 ft. to Sta. 811; thence S. 87° 21' W., 81.16 ft. to Sta. 812; thence S. 41° 48' V., 98.22 ft. to Sta. 813; thence N. 87° 25' W., 145.95 ft. to Sta. 814; thence N. 41° 53' W., 69.22 ft. to Sta. 815; thence N. 39° 06' W., 235.86 ft. to Sta. 816 on line 3-4 Tornado.
20 76. 21 11 76, 22 11 .	From Sta. 811 a cross-cut 5 x 7 ft. in size running N.7° 20' E., 59.60 ft. to Sta. 817; thence N. 17° 50' E., 168.0 ft. to breast, connecting with improvement No. 7 (drill hole). Total value, \$74,127.20
No. 9	A drift 5 x 7 ft. in size on 900 ft. devel of Memmoth mine, Sur. No. 802 at a point on line 1-2 Tornado lode 402.6 ft. from Cor. No. 1 running N. 43° 50' W., 25.62 ft. to Sta. 902. From Sta. 902 is a cross-cut 5 x 7 ft. in size running
. some	00'. W., 20 ft. to breast. From Sta. 902, a drift 5 x 7 ft. in size running N.43° 50'. W., 80.58 ft. to Sta. 904; thence N. 11° 40'. W., 43.14 ft. to Sta. 905; thence N. 56° 10'. W., 134.92 ft. to Sta. 906; thence N. 65° 50'. W., 48.86 ft. to Sta. 907; thence S. 83°. 33'. W., 35.36 ft. to Sta.
. #1	From Sta. 906 is a drift 5 x 7 ft. in size running S.81° 50'. W., 49.52 ft. to Sta. 908; thence N. 53° 05' W., 38.40 ft. to Sta. 909 at junction, thence N. 51° 10'W., 64.55 ft. to Sta. 910; thence N. 84° 30' W., 40.52 ft. to Sta. 911; thence N. 30° 58' W., 96.50 ft. to Sta. 912; thence N. 87° 00' W., 30 ft. to breast. Total value, \$32,785.20
	OTHER IMPROVEMENTS
de 18 de 18	10.5 . A CUI, the mouth of which boars from Cor. Mc. 4 love 20.0 ft. Mans. 10.7 w. 10.

CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

Sur. No. 806 Mars lode, Cor. No. 4 falls in a position which is subject to floods in the Tucson Wash and has been completely obliterated; its position was therefore calculated from the records.

Sur. No. 698 Hackney lode, Cor. Nos. 3, 4 and 5 are posts, 4 ins. sq., firmly set in stone monuments and marked with the number of the Corner and the survey. I find line 3-5 to be N. 30° 40° E., 593.83 ft. instead of N. 30° 00° E., 600 ft.

A diligent search was made for all corners of Section 27, T. 8 S., R. 16 E. including all $\frac{1}{4}$ sec. corners. No evidence of same could be found or identified, except the $\frac{1}{4}$ sec. cor. of Secs. 26 and 27.

ADJOINING CLAIMS

On the north by Cloudburst lode, unsurveyed, and Sur. No. 806 Mars lode.
On the east by Sur. No. 698 Hackney lode.
On the south by Whirlwind lode, unsurveyed.
On the west by current Sur. No. 4343, Ben Hur lode, all belonging to claimant herein.

Field Assistants

Name

Capacity

E.H. Jenkins

Chainman

srvey No 13/kg our. Me. 806 Mars loss, Sot. No. A relie in a tion which is subject to floods to the income and set been oppolately oblitarstod; its cosisi therefore saleulated from the records. gew me Air wo. 696 inckney lods. Vor. Nos. 5. 4 and posto. 4 tas. 5. 1 ta .X97 A dilipant search was main for edl commers of 27, T. 6 3. F. 16 2. Including all a sec. corn sylvance of same could be found or then biffed.

The east obt. of uses. 20 and 27. on the porth by cloudburst lode, prantyegel, and the. on Junears lone

on Junears lone

on the south by one in the lone, uncorresed

on the west by current during lone, uncorresed

on the west by current during 13,13, Ren nur

belowed to alshant berein E.F. Jekking

UNITED STATES DEPARTMENT OF THE INTERIOR GENERAL-LAND-OFFICE

GENERAL-LAND OFFICE Bureau of <u>Land Management</u>

FINAL OATH OF MINERAL SURVEYOR

I,, Mineral Surveyor,
do solemnly swear that, in pursuance of instructions received from the Office Cadastral
Engineer, at Phoenix, Arizona, dated August 19, 1949,
I have, in strict conformity to the laws of the United States, the official regulations
and instructions thereunder, and the instructions of said Office Cadastral Engineer,
faithfully and correctly executed the survey of the mining claim of
St Anthony Mining & Development Company, Ltd. , known as the
Tornado Missing Plain
situate in Mining District,
Pinal County,, in Section
and designated as Survey No. 4342 , 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 Office Cadastral Engineer
with said instructions, and that all 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 im-
provements made upon said mining claim by claimant orits
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.
(Mineral Surveyor)
Subscribed and sworn to by the said J. M. Stenen
Mineral Surveyor, before me Jean G. Slausgan, notary
Oblic, Pina County, Origina this 7th
day of October 10d4
Joan G. Slanagan
minimo odhir Od 1-19-
U. B. GOT BRIMENT PAINTING OFFICE 8-9476

UNITED STATES OLDARTMENT OF THE INTERIOR CENTRAL - - - NO STATES PROPORT OF LEDG MORRAMENT

REVIOUS LANGUEST TO STREET TAKES

	gravadi. T.g	
intended orthic sol word farrence unall rest.		Stelles vicuodo, et-
	- Brockitk, Artsons	. in teenand
ancies Starce, the citte of the could regulations		I have as available
Creentyna ferigabal apillo bist do emolitobro		totalion sout total.
	us agit da engray Albrea.	sub-fine of the high have
Opmount, Ltd) inempoleral griat.	St Anthory
	lists of the clustro	
moisted at , AmpairA	prime as a second	coo lamia
Cascin des 35 16 Sest discont	l	79
heldsatates as rapresented	ABA ABAR	
stary show the bacounties of anto mining alake	nrown dollar graffor grad	t artegraph edit at
To you beducids on the head-roads one councils	and no some and a very	
reculand Lautenter action out more on ye bevi		Lines localised Control
bus defailed and seven year state to energy and	dico ile apir pol. così	- Juneau Care Colo
encirousent See Audiciones Teraffic , voi si	ir diska simusimosa tak	Darpe Coaton Institut
toulgits but entract on the trace and original	ega yInnerod treatal at	Topa transpersati
theretis, and was to letter expended and im-	theory we blo payable a	, is to parameters)
eding. They are dismission	yd mielo amirik cesa gy	gr staw sinderorg
one the limit the confidence of the local description and	ms ,bareto villes m.o.es	/ 86 oss (tolker)
bus , Listed Hint and TirigiseMoney filly mis:		
Securioni med roughalt vide of hothers or ex-	nic Interversersprovenium	ole control of the
to the state of th	o gue poqu genulibroupe	To emarque out as
The second of th		
The second secon	Eller of the organic	Subscribbed and evo
The State of French Street	Section of the Section	The work leading
	Taylet	
The deliver the Delaured		

U. S. GOVERNMENT PRINTING OFFICE 16-26618-1

CERTIFICATE OF APPROVAL OF FIELD NOTES AND SURVEY OF MINING CLAIM

UNITED STATES DEPARTMENT OF THE INTERIOR

SENERAL LAND OFFICE Bureau of Land Management Personal Server Office Division of Engineering

	At Albuquerque, New Mexico
	February 16 , 19 50
I, Office Cadastral Enginee	or at Albuquerque, New Mexico
do hereby certify that the foregoing and hereto at	tached Field Notes and Return of the Survey of the
Mining Claim of St. Anthony Mining &	Development Company, Ltd.
·	, known as the
TORNAD	0
situate inOld Ha	t mining district,
Pinal County,	Arizona
in Section 27, Township No.	8 South , Range No. 16 East
G.&. S.R.M., designated as Survey No	4342
executed by T.N.Stevens	, Mineral
Surveyor, August 24 to August 29	, 19 49 under-my instructions dated
August 19 , 19	49, have been critically examined and the necessary
corrections and explanations made, and the said Fi	eld Notes and Return, and the Survey they describe,
are hereby approved. The certified copy of the lo	cation certificate filed by the applicant for survey is
included and made a part of these field notes.	
	She Disell
	George Cadastral Engineer.

CERTIFICATE OF APPROVICE OF STADISTICS AND STREET OF STADISTICS OF STADI

ROWERING STATE CENTRIC STATES OF THE STATES

Junuary and Control of the Control o

a policel was the contract		
hint Commoney, Ltd.		Minist Clem of Line
	1, 10 m	
		12
		A THE RESERVE
	Ellinos inclinad elli 21 egesse 22 esse	