

CONTACT INFORMATION

Mining Records Curator Arizona Geological Survey 1520 West Adams St. Phoenix, AZ 85007 602-771-1601 http://www.azgs.az.gov inquiries@azgs.az.gov

The following file is part of the

Arizona Department of Mines and Mineral Resources Mining Collection

ACCESS STATEMENT

These digitized collections are accessible for purposes of education and research. We have indicated what we know about copyright and rights of privacy, publicity, or trademark. Due to the nature of archival collections, we are not always able to identify this information. We are eager to hear from any rights owners, so that we may obtain accurate information. Upon request, we will remove material from public view while we address a rights issue.

CONSTRAINTS STATEMENT

The Arizona Geological Survey does not claim to control all rights for all materials in its collection. These rights include, but are not limited to: copyright, privacy rights, and cultural protection rights. The User hereby assumes all responsibility for obtaining any rights to use the material in excess of "fair use."

The Survey makes no intellectual property claims to the products created by individual authors in the manuscript collections, except when the author deeded those rights to the Survey or when those authors were employed by the State of Arizona and created intellectual products as a function of their official duties. The Survey does maintain property rights to the physical and digital representations of the works.

QUALITY STATEMENT

The Arizona Geological Survey is not responsible for the accuracy of the records, information, or opinions that may be contained in the files. The Survey collects, catalogs, and archives data on mineral properties regardless of its views of the veracity or accuracy of those data.

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: UFO CLAIMS

ALTERNATE NAMES:

LEHMAN COPPER LONE STAR CHAMPIE COPPER

CERSA MOJE 1-7 CLAIMS

RHOADES-IOLA

YAVAPAI COUNTY MILS NUMBER: 938B

LOCATION: TOWNSHIP 9 N RANGE 2 W SECTION 33 QUARTER W2 LATITUDE: N 34DEG 04MIN 39SEC LONGITUDE: W 112DEG 28MIN 33SEC

TOPO MAP NAME: COPPEROPOLIS - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

COPPER OXIDE

GOLD

BIBLIOGRAPHY:

USGS COPPEROPOLIS QUAD

ADMMR GOLDEN ASTER MINES FILE

ADMMR UFO CLAIMS FILE

BLM AMC FILES 68361 & 68894 ADMMR RHOADES-IOLA MINE FILE

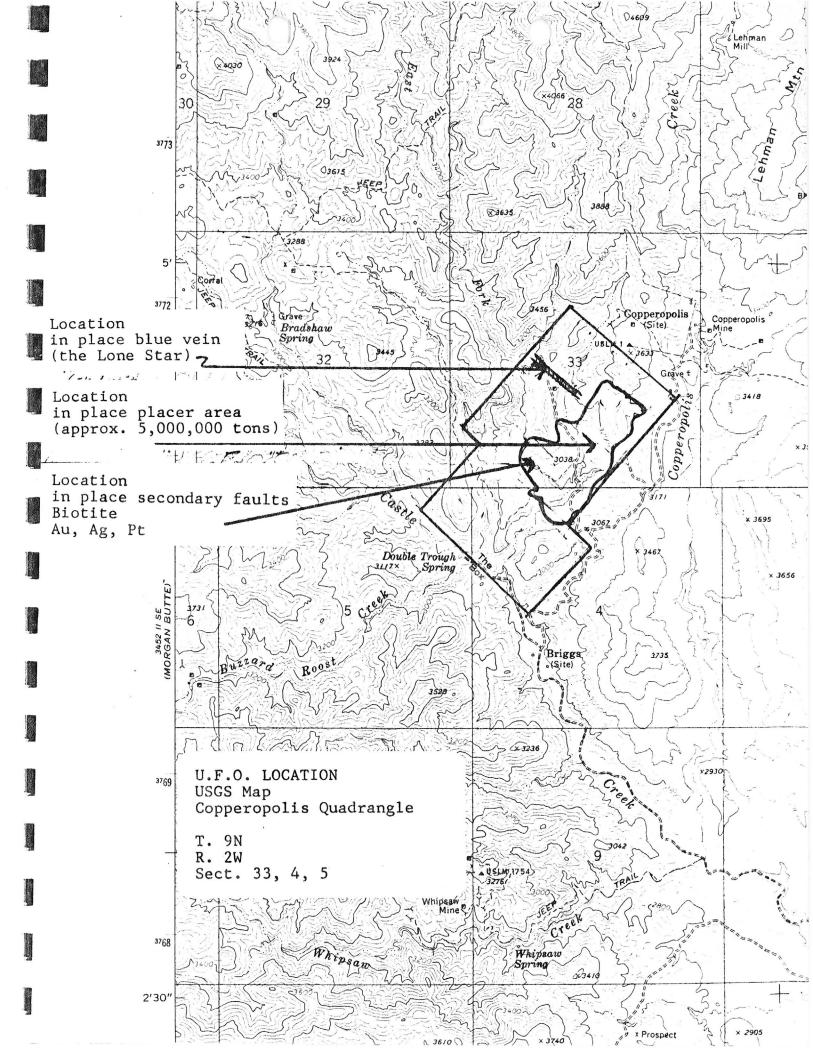
REFERENCE 1	F1 <		L REFERENCES LIPPINGS FILE DATE	1	
REFERENCE 2	F2 < AZ DEPT MIN RES F	LE DATA			1
REFERENCE 3	F3 < 11665 BULL 782 G	1.185-186			
REFERENCE 4	F4 < USRM - ABGMT FILE	AFAO			
	and the state of t				
		i i			

RECORD NUMBER REPORT DATE	810 〈ــــــــــــــــــــــــــــــــــــ			DEPOSIT NUMBER 840 <	M 004 025 0417
	YR. MO. OR) G2 < ROTH FRANCES /		(DEwitt ,		
	(last, first, middle initial)		(last, first, midd	lle initial)	AND THE RESERVE OF THE PERSON
YNONYMS		ONE STAR, LEHMAN	SITE NAME A 10 \	AMPIG MINE	
		LO	CATION		
MINING DISTRICT/AI	A60 CASTLE CREEK	DISTRICT	> **	TATE ASO (AZ)	COUNTRY A40 (U, S
	A63 (1,2,8, A62 (1,5,0,7,0,1,0,2,8				
QUADRANGLE NAM	E A90 COPPEROPOLIS		(1.9.6.9.)	QUADRANGLE SCALE A100 (2	.4.0.0.0.
ECOND QUAD NAM LEVATION	A107< 3.2.0.0.8.F.T.>		()>	SECOND QUAD SCALE A91 (
JTM	I	*ACCURACY		GEODETIC	
	20 < 13 , 7 , 7 , 1 , 5 , 5 , 0 , > 30 < 13 , 6 , 19 , 0 , 0 , >	ACCURATE (circle)			o <
ZONE NUMBER A1		ESTIMATED EST		<u></u>	
CADASTRAL					
TOWNSHIP(S) SECTION(S)	A77< <u>(0,0,9,N,;,)/,</u> A79< <u>33</u>	, ; , br, , , , ; , br, , , , , , , , , , , , , , , , , ,	*RANGE(S) A7	8(<u>0,0,2, w, ; , b, , , , , , , , , , , , , , , , ,</u>	
	(S) A76< NECE SW ABI< GILA AND SALT				
MEKIDIMIN(3)	AND STATE MAD STATE	MINER		/	
LOCATION COMME	AREST PROMINENT LOCALITY AB2 (3. NTS AB3 (LOCATION ME ASU WINE (LEHMAN) LE NOT THE	RED FROM BETWEEN	TWO ADITS. THER	RE IS A SHAFT TO T	THE SOUTHERST.

^{*} ESSENTIAL INFORMATION + ESSENTIAL SOMETIMES OR HIGHLY RECOMMENDED

	COMMODITY	NFORMATION
COMMODITIES PRESENT	C10 (L. W. DR B. , D/F , D/A L. , D/	<u></u>
ORE MINERALS	C30 CHRYS - OLLA SPECULARI	IE LIMONITE (AURIFERO)
COMMODITY SUBTYPES	C41 <	·
GEN. ANALYTICAL DATA		
COM NEO. COMMENTS	C50 (>
SIGNIFICANCE		
	PRODUCER	NON -PRODUCER
AJOR PRODUCTS	MAJOR (A.G., BCU, BRB, B)	MAIN COMMODITIES PRESENT C11
AINOR PRODUCTS	MINOR (W M , U , W , W)	MINOR COMMODITIES PRESENT C12
OTENTIAL PRODUCTS	POTENS	OCCURRENCES OCCUR
DCCURRENCES	OCCUR (OCCURRENCES OCCUR
	*PRODU	CTION
	PRODUCER	NON-PRODUCER
PRODUCTION YES (circ	cle) PRODUCTION SIZE (SML) MED LGE (circle one)	PRODUCTION UND NO (circle one)
STATUS	EXPLORATION O	The same of the sa
0174100	PRODUCER	NON – PRODUCER
	STATUS AND ACTIVITY A20 (L)	27.47.15.41.15.47.47.47.47.47.47.47.47.47.47.47.47.47.
	STATUS AND ACTIVITY AZUNCLES	STATUS AND ACTIVITY A20 ()
DISCOVERER	120<	}
YEAR OF DISCOVERY		OF FIRST PRODUCTION 146 < 1937 YEAR OF LAST PRODUCTION 148 < 1965
PRESENT/LAST OWNER	A12 G. WESTERDAHL (1942)	>
PRESENT/LAST OPERATOR	RA13 (A.W. NICKLE (1942)	>
EXPL./DEV.COMMENTS	LITO (3 CLAIMS, ALL UNPATENTED	
		>
	DESCRIPTION	OF DEPOSIT
d .		· 23. 33.
DEPOSIT TYPE(S)	C40< VEIN	
DEPOSIT FORM/SHAPE	M10< TABULAR M20< > 'UNITS M21< >	MAXIMUM LENGTH M40 (
DEPTH TO TOP	M20 \	MAXIMUM WIDTH M50 \ UNITS M51 \ VINITS M51 \
DEPOSIT SIZE	M15 SMALL M15 MEDIUM M15 LARGE (circle one)	MAXIMUM THICKNESS M60 (S) UNITS M61 ()
STRIKE	M70 N30W TO N20W	> *DIP M80< 35 SW TO 45 SW
DIRECTION OF PLUNGE	M100<	> *PLUNGE M90 < >
DEP. DESC. COMMENTS	MIIO	
\	mit C	>
	DESCRIPTION	OF WORKINGS
Workings are: SURFAC	CE M120 UNDERGROUND (M130 BOTH M140 (circle one)	*OVERALL LENGTH M190 (
DEPTH BELOW SURFACE		*OVERALL WIDTH M200 \ > *UNITS M201 \ >
LENGTH OF WORKINGS	s M170<> *UNITS M171<>	OVERALL AREA M210 \ TUNITS M211 \
DESC. OF WORK, COM.	M220 TUNNEL FOLLOWS THE COPPER VEN	N, DOWNTHE HILL FROM THE TUNNEL IS A
	SHAFT WHICH IS ON THE LEAD VEIN	
4 10	NNELS WITHIN A VERTICAL INTERVAL OF	200 FT
	GEC	DLOGY
AGE OF HOST ROCK(S)	WILPOOT TERT KUNDATED PROBABLY	1750 MILLION YEARS OR OLDER; UNDATED, PROBABLY MID-TERTIARY
HOST ROOK TYPE(S)	KIA (BUALTY MICH SCHIST, AMPHIBOLE SCHIST, GR	
	(S) KOK, P.R.O.T., T.E.R.T W. AS LINE KI	\(\frac{1}{2}\)
IGNEOUS ROOK TYPE(S)		TE PLOWS
AGE OF MINERALIZATIO	10 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
PERT. MINERALS (NOT C	DRE) KAK BUARTZ, HEMATITE,	
ORE CONTROL/LOCUS	KS FAULTING SHEARING	
MAJ. REG. TRENDS/STRE	UCT. NOT FOLIMION IN PRECAMBRIAN SCHIST TRENDS A	20E TO NEOE, TERTIARY VOLCANICS DIP NE, STRIKE HILL
TECTONIC SETTING	N15<	
SIGNIFICANT LOCAL STR	RUCT.N70(VEINS PARALLEL LOW-ANGLE (LESS THAN	50 DEGREE DIP) FALLIS WHICH TREND UW
SIGNIFICANT ALTERATIO		
	RICH. NBO COXIDATION AT NEAR-SURFACE	
FORMATION AGE		1750 MILLION YEARS AND OLDER
FORMATION NAME	NSOA UNHAMED PRECAMBRIAN SCHIST	
SECOND FM AGE	N35<	
	NOTA /	
SECOND FM NAME	Nancia R. L. T. K. AS LINE 1/30	
IGNEOUS UNIT AGE	NEOK F.R. D.T	
IGNEOUS UNIT AGE	NSOA CRAHITE	WID- TEKTINGY
IGNEOUS UNIT AGE IGNEOUS UNIT NAME SECOND IG UNIT AGE	NSOA CRAHITE NSSA PLANE 13 30	WID- TEKTING!
IGNEOUS UNIT AGE	NSOX P.L.LE.O. P. LO. W. AS LIKE IS 30 NSOAX GRAHITE NSSX P.L.LE.O. P. LO. W. UNDATED. PROBABLY NSSAX RUYDLITE DIKES, UNINAMED	WID- TEKTIARY WHICH PROBABLY DUSPLACES TERTIFIED
IGNEOUS UNIT AGE IGNEOUS UNIT NAME SECOND IG UNIT AGE SECOND IG UNIT NAME	NSOX P.L. LE.O. P. LO. W. UNDATED PROBABLY NSSAY P.L. LE.O. P. LO. W. UNDATED PROBABLY NSSAY PHYDLITE DIKE, UHNAMED NSSY DEPOSIT IS BUARTE DEIN LOCALIZED ALOR	16 LOW- ANGLE FAULT WHICH PROBLECT DISPLACE TERTIFIED
IGNEOUS UNIT AGE IGNEOUS UNIT NAME SECOND IG UNIT AGE SECOND IG UNIT NAME GEOLOGY COMMENTS	NSOX P. L. L.E. O P. I. D. , W. AS LUKE IS 30 NSOAX GRAHITE NSSX P. L. L.E. O P. I. D. , W. UNDATED, PROBABLY ENSSAY REYOLITE DIKES, ULINAMED NSSX DEPOSIT IS BUARTE DEIN LOCALIZED ALON	16 LOW- ANGLE FAULT WHICH PROBLECT DISPLACE TERTIFIED
IGNEOUS UNIT AGE IGNEOUS UNIT NAME SECOND IG UNIT AGE SECOND IG UNIT NAME GEOLOGY COMMENTS	NSOK P. R. D.T	NO LOW ANGLE FAULT WHICH PROBABLY DISPLICES TERTIFIED)
IGNEOUS UNIT AGE IGNEOUS UNIT NAME SECOND IG UNIT AGE SECOND IG UNIT NAME GEOLOGY COMMENTS	NSOA GRAHITE NSOA GRAHITE NSOA GRAHITE NSOA GRAHITE NSOA P. L. E. C M. I. D. W. UNDATED PROBABLY NSOA REPOLITE DICES, ULINAMED NOS DEPOSIT IS BUARTE DEIN LOCALIZED ALOF TO THE SOUTHERST. DEPOSIT HEE PROBABLY GENERAL	16 LOW. ANDLE FAULT WHICH PROBLEM DUSINGE TERTIFIED

.



Mineral Building, Fairgrounds
PHOENIX, ARIZONA





Mr. A. W. Nickle

Castle Creek,

via Morristown, Arizona

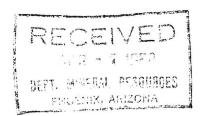
We have an old listing of the above property which we would like to have brought up to date.

Please fill out the enclosed Mine Owner's Report form with as complete detail as possible and attach copies of reports, maps, assay returns, shipment returns or other data which you have not sent us before and which might interest a prospective buyer in looking at the property.

Frank P. Knight

FRANK P. KNIGHT, Director.

Enc: Mine Owner's Report





A-220-10

U.F.O,

JENKINS

DAIL TERRITORIAL 5-31-85 Lone Star mine (1), Yavapar Co.
May 31, 1985, The Daily Territorial, Pag

ARIZONA DEPARTMENT OF MINERAL RESOURCES MINERAL BUILDING, FAIRGROUNDS PHOENIX, ARIZONA

perty.

October 23, 1958

To the Owner or Operator of the Arizona Mining Property named below:

LONE STAR (Yavapai County)
(Property)

gold, copper, lead (ore)

perty which we would like to have

ARIZ:

's Report form with as complete detail s, maps, assay returns, shipment returns is before and which might interest a

Mr. G.A. Westerdahl

Castle Creek

Arizona

No Such Post Office
In Arizona

Frank P. Knight
FRANK P. KNIGHT,

FRANK P. KNIGHT

Enc: Mine Owner's Report



LONE STAR MINE

Yavapai County Castle Hot Springs Dist.

5/4/83: Information extracted from the State Mine Inspectors' Start-Up Sheets gives American Mining and Exploration Inc., Leroy Pikus, President, 6112N. 12th Ave., Phoenix Arizona 85012, phone 602-242-9104 as beginning a cyanide operation at the UFO Mine in Yavapai County. They hope to extract gold and silver. Start-up date is May 1, 1983.

KAP WR 4/8/83: The owners of the UFO Mine were in to discuss what to expect from a consultant. They were shown numerous reports as examples. They are hoping to get some real answers as to recoverable gold content and tonnage in place.

NJN WR 2/24/84: John Challinor (c) reported that he did some sampling for Amax at the UFO Mine (Lone Star) Yavapai County. The results were not described as encouraging.

NJN WR 12/28/84: Jim Weatherby reported a placer operation in T9N R2W Sec. 33 SE $\frac{1}{4}$ of the SW $\frac{1}{4}$, Yavapai County, Lone Star Mine (f) Castle Creek District. Bill Dickey et al are mining residual material on the south side of the hill near BM 3028. Water is being supplied by a pipeline about one third mile long from Castle Creek.

KAP WR 6/6/80: Max Long, P.O. Box 87, Morristown, Arizona 85342, and 1804 Elk Street, Space 27, Rock Springs, Wyoming 82901, phone (307) 362-8506, reported he has claims in the Wickenburg area, at the Old Lone Star Mine. His claims are the UFO Claims No. 1-10 and are located in Section 33, T9N, R2W, Black Rock Mining District, Yavapai County. He has been making mill tests and hopes to operate soon. He is concerned about claim staking activities in the area, which he feels may threaten his title.

RRB WR 12/18/81: Max Long of UFO near Wickenburg, Old Long Star Mine, Castle Creek District, section 33, T9N R2W was in for notes of Black Sands Talk. He reports assays of 20% Cu, 5 oz/ton Au and 0.1% Pt.

KAP WR 10/29/82: A rumor was received that a firm known as American Mining and Exploration is operating the UFO Mine (Lone Star file) in the Wickenburg area.

NJN WR 2/18/83: Bill Dickey, 105 Mountain View Drive, Rock Springs, Wyoming 89201, (307) 362-7798 and Max Lang, 1804 Elk Street, #27, Rock Springs, Wyoming 89201 visited. They are senior partners of UFO Mining Limited Partnership which owns the Longe Star and U.F.O. Mines in Yavapai County. They provided a copy of a report on the Lone Star for our files. They are looking to go back and block out their ore reserves in a logical fashion now by hiring a registered consultant. They are thinking of hiring Dorman O'Leary to be their consultant.

KAP WR 3/18/83: John Challinor explained he has been hired by the people at the UFO Mine to sort out their problems. He has started with a routine sampling program.

KAP WR 3/25/83: John Challinor reported he is still working for the group at the U.F.O. Mine. He explained that Noble Metals proportedly is to received 75% of the UFO production.

NJN WR 9/18/87: Bill Dickie with UFO MIning Limited Partnership (card) reported that they have been constructing a mill at the UFO Claims no 1-10 (file) Yavapai County with the money they have raised in the last year. He promised to visit with pictures and more details soon.

CLAIMS (F) YAVAPAI



KATHY KARPAN

Secretary of State

Securities (307) 777-7370 FAX 634-9503

August 12, 1993

Nyal Niemuth Arizona Department of Mines and Mineral Resources 1505 West washington Phoenix, AZ 85007

> RE: UFO Mining Limited Partnership and Summit Mines

International Ltd.

Dear Mr. Niemuth:

Thank you for your assistance today in explaining what information you had on UFO Mining. I have enclosed copies of the alleged claim locations, maps and lease agreements for your files.

We have received complaints against Max Long, General Partner of UFO Mining Limited Partnership and are conducting a preliminary inquiry into the allegations we received.

Sincerely,

Kathy Karpan Secretary of State

Paul Yaksic

Securities Examiner



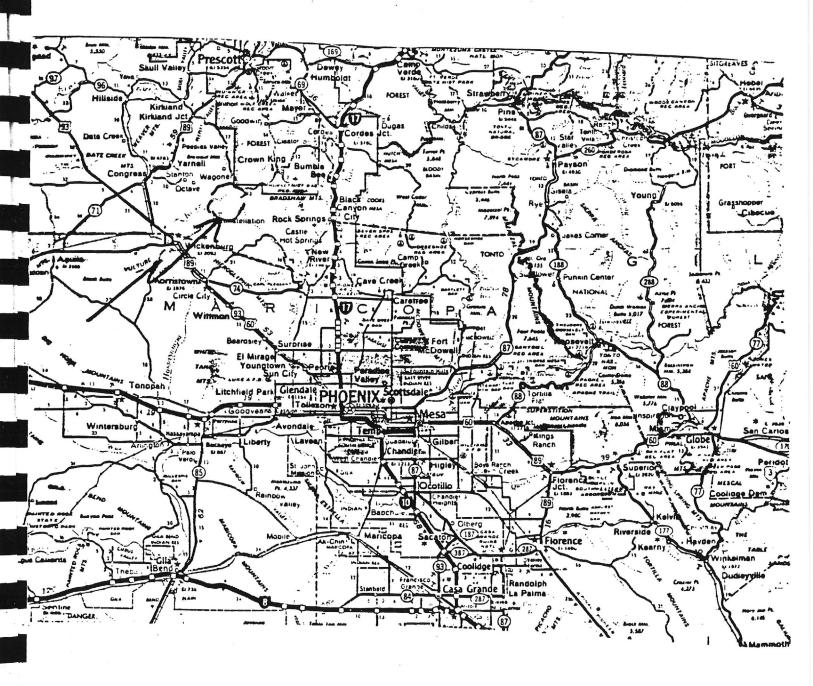
The U.F.O. Mine is approximately 52 miles northwest of downtown Phoenix. The surrounding area is best characterized as typical Arizona rough mountain desert.

Access to the mine is via Highway 54 (a year round paved road) which continues to the Maricopa/Yavapai County line at Lake Pleasant Park. From there the county maintained but unpaved road continues for 15 miles to the Yavapai County Camp at Castle Creek. The next 4 miles is creek bottom to the influence of Buckhorn Creek. This area is maintained by the County as weather permits basically to assist local ranchers.

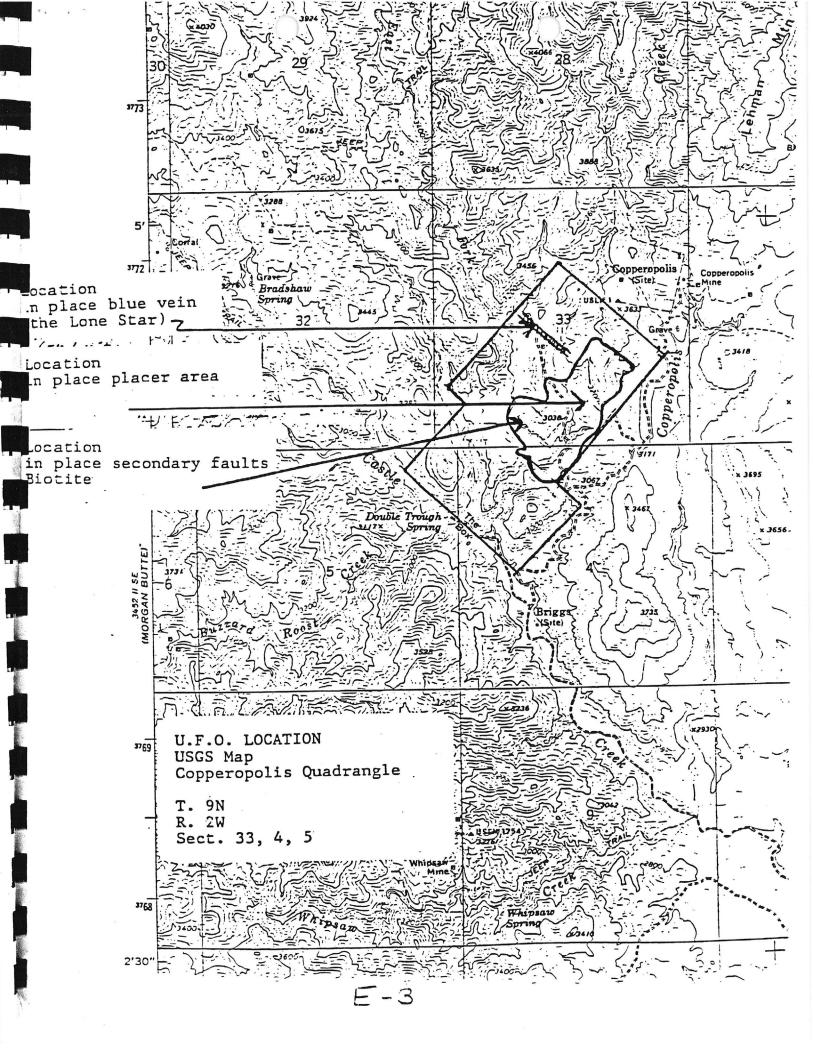
The last 6.1 miles is Castle Creek and the creek bottom is used for access to the mining property. This mileage is maintained by the mine owners. Passenger cars can, weather permitting, reach the mine property safely, but access with a pick-up truck is recommended.

The U.F.O. mine consists of 21 registered and properly certified mining lode claims for both placer and hard rock mining. Each claim is approximately $600' \times 1,500'$. The total acerage is $400\pm$. Elevation is 3,000'.





Regional Location U.F.O. MINE Yavapai County, Arizona Castle Creek Mining District



There are no municipal utilities available to the mine property. Power is supplied by an on site diesel generator. Telephone is available at the Yavapai County Camp or in Wickenburg. Satalite communications disc is available if desired.

In 1981 the mine applied for and was granted a permit for a water supply well. A 140' water well was completed and a delivery of 11 c.f.m. received. There is, at present, no restrictions on the number of wells which may be added should a future owner desire additional water. A 200,000 gallon water storage pond is on site for the present mining operations.

It is anticipated that at such time as the above purposes are accomplished, additional funds from other sources will be raised by the Joint Venture to pay for establishing a commercial mining operation of the UFO Mining Claims.

UFO Mining Limited Partnership will contribute the Claims to the Joint Venture. Omega Consulting will contribute its expertise.

The Partnership will receive a fifteen percent (15%) ownership interest in the Joint Venture, UFO Mining Limited Partnership will receive an eighty percent (80%) ownership interest, and Omega Consulting will receive a five percent (5%) interest in the Joint Venture.

Additional capital will be raised as needed in the future by exchange of a portion of UFO Mining Limited Partnership's interest in the Joint Venture, and it will obligate itself to raise necessary additional funds by exchanging a portion of its interest. The Partnership's fifteen percent (15%) interest in the Joint Venture will not be diminished, and the Joint Venture's ownership of the UFO Mining Claims will not be diminished in the future in order to raise additional funds.

Distributions

All profits and losses of The Partnership, after establishment of a reasonable reserve for working capital shall be allocated to the Limited Partners, pro rata to the percentage which their individual contributions bear to the total contributions of all Limited Partners. Distributions will be in cash or in kind.

It is not expected that cash will become available for distribution to the Limited Partners until the UFO Mining Claims are placed into commercial production, which will take place only after the pilot plant has been sufficiently operated to develop methods for commercial production of the claims; additional funds have been raised to establish a commercial operation; and the commercial operation has been successfully implemented. Any distributions will also be contingent upon it being determined feasible to commercially produce the claims.

Consequently, if any distributions are made, it is likely that they will not commence before January 1, 1988, and possibly considerably after that date.

The Mining Claims

The Mining Claims are all located in Yavapai County, Arizona, and are described as follows:

1				\			
#	Claim Name	Sec-T-R	Book Page	Date of Location	Date of Amendment	Book Pag	ge
# 3361 3364 3365 3366 33666 83667 83689 90808 90	U.F.O. # 1 U.F.O. # 3 U.F.O. # 4 U.F.O. # 5 U.F.O. # 6 U.F.O. # 7 U.F.O. # 10 U.F.O. # 11 U.F.O. # 12 U.F.O. # 13 U.F.O. # 14 U.F.O. # 15 U.F.O. # 15 U.F.O. # 17	33 9N 2W 4 8N 2W	1245 692 1245 695 1245 698 1245 701 1245 704 1245 710 1245 710 1245 713 1245 716 1245 719 1513 915 1513 916 1513 917 1513 918 1513 919 1371 375 1371 373	9/21/79 9/21/79 9/21/79 9/21/79 9/21/79 9/21/79 9/21/79 9/21/79 9/21/79 2/1/83 2/1/83 2/1/83 2/1/83 3/29/81 3/29/81	7/10/83 7/10/83 7/10/83 7/10/83 7/10/83 7/10/83 7/10/83 7/10/83 7/10/83 7/10/83 7/10/83 7/10/83 7/10/83 7/10/83 7/10/83 7/10/83 7/10/83 7/10/83 7/10/83 7/10/83	1553 62 1553 64 1553 66 1553 70 1553 72 1553 74 1553 76 1553 78 1553 80 1553 82 1553 84 1553 84 1553 86 1553 86 1553 90 1553 92 1553 94	
780 781 90782	U.F.O. # 18 U.F.O. # 19 U.F.O. # 20 U.F.O. #21	4 8N 2W 4 8N 2W 4 8N 2W 4 8N 2W	1371 377 1505 450 1505 452 1505 454	3/29/81 11/20/82 11/20/82 11/20/82	7/10/83 7/10/83	1553 96 1553 98 1553 100 1553 102	

The following report (ORE TESTING/ANALYSIS) was designed and conducted primarily to CONFIRM the presence of the Platimum group metals within the LONE STAR ore. These tests are confirming, as are those assays following the report from kimball Laboratories and Beckman Industries. These tests and assays are analytical and were not intended or designed to be fully quanatative and they do not necessarily indicate production or recovery methods. Full quanatative analysis and chemicall systems developed and built within a pilot plant program.

UFO MINE
ORE TESTING/ANALYSIS
3-31-86/ 4-5-86
CONDUCTED AT OMEGA MINERALS
PHOENIX, ARIZONA
CONDUCTED BY JIM COUINO/ ARLO STREECH

I. WEIGHTS

HEAD ORE FROM UFO MINE (by Stan Pownal) - 3500 lbs gross/

Delivered to, ground and table concentrated by Archie Stutenroth
Casa Grande, Arizona

Ore loss- due to ove size grinding- 40% Net weight concentrated- 2100 lbs. Screen size- 20 mesh

Wt. Summary:

2100 lbs- gross

480 lbs- all concentrates

1620 lbs- tails

Weights for tests (returned to Omega Minerals):

		gross wt	water	bucket	net	
1.	Head Ore	42	-	2	4 0	lbs
2.	lst line	12 1/4	-	2	10	lbs.
3.	2nd line	22 1/2	_	2	20.5	lbs.
4.	3rd line (1) 1 2. 3. 3rd line (2)	77 100 75	3 3 3	2 2 2	75 95 70 Total	lbs. lbs. 240 lbs
	1 2 3	76 90 56	3 - 3	2 2 2	71 88 51	lbs. lbs. lbs. 210 lbs
6.	Tails sample	7	-	-	Total 7	lbs.

Magnetic Seperation:

From Stutenroth #1 cons (reground at Omega)

From 30 gm sample

1. non magnetic portion

17.5 gm

2. magnetic portion

12.3 gm

(.2 gm lost on work surface)

NOTE: ALL Stutenroth ore had to be reground to 150 mesh before being used for chemical analysis or for fire assay. All tests that follow use regound ore samples.

II. METHODS

- A. SILVER INQUART FIRE ASSAY (fire cons or head ore with silver inquart as a collector.)
 - 1. silver inquart + litharge. Prefusion
 - 2. after molten: + 10gm borax, +10gm sodium carbonate, +2gm silica, +3gm flour.
 - 3. Furnace at approx 1900 degrees
- B. STRAIGHT FIRING (fire cons or head ore with NO inquartation. Lead added and used as a collector.)
 - 1. ore (150 gm)
 - 2. blend with flux (for 150 gm, as follows)

90gm litharge

8 medium spons borax

5gm flour

6 heaping spoons soda ash

- l heaping spoon calcium carbonate
- l heaping spoon silica
- 3. cupel and furnace
- C. SULPHERIC ACID PARTING (to dissolve buttons from silver inquart fire assay. Results should yield Au, some PTG as residue. The Os and Ru are lost in firing. Ag and Pd is in the solution. Deduct 4-10% of residue weight to compensate for silver not taken in solution.)
 - 1. flatten silver bead as much as possible
 - place in sulpheric acid (at least 2 times height of metalalways keep metal covered with acid)
 - 3. bring temp up until bubbles appear. (approx 240 deg.) don't raise temp beyond that point. Maintain this temp. Possibly reduce temp if bubbling is too violent
 - 4. let part
 - 5. decant as much liquid (silver) as possible without losing blacks.
 - 6. add dist water until no silver sulphate is left
 - 7. decant water. dry
 - 8. powder residue remains. Weigh and read. (deduct 4-10% for silver not taken in solution.)

REFERENCE: Bugbee- Sulpheric parting

- D. NITRIC ACID PARTING (residue = 99% of precious metals goes into solution with high silver inquart. Some Au, Pt, Ir will stay down depending on the amount of silver used in inquart.)
 - 1. Nitric 50% / Dist water 50%
 - 2. HOT plate but not boil
 - 3. bring up temp
- 4. Dehydrate. Once it becomes dry it is silver nitrate crystals (white Powder). Bring up temp to 340 deg.- the silver nitrate will become liquid. Let cook. This causes precious metals to precipitate.

- 5. Remove fro heat and cool. Tip beaker hile cooling
- 6. Add dist water and decant. repeat 4 times
- 7. weigh and read precips

III. FORMULAS

A. To convert ppm from DCP Assay to oz per ton

ppm X .02916 X vol of solution
_____ = oz per ton
weight of sample

- B. 30 gm ore sample represents 1 assay ton. 1 miligram result equals 1 ounce per ton of the material assayed. This is used for fire assays
- IV. SOLUTIONS FOR DCP ASSAY (solutions used to put ore in form to be read by DCP machine)
- A. NITRIC + HYDROGEN PEROXIDE METHOD (also known as Englehart method)
 - 1. nitric + hydrogen peroxide (35%) Cook until no further action
 - 2. add hydrocloric, 3 times solution.
 - 3. cook. when action stops add 100 ml of 3-1 agua regia
 - 4. cook until sample turns white (about 12 hrs or as required)
 - 5. read solution on DCP

B. JIM'S DCP SOLUTION

- 1. 35% peroxide + hypochlorite. Heat. (expect a violent reaction)
- 2. slowly add 150 ml hydrocloric acid
- 3. cook (hot boil) until 99% of the materials turn white. (1 1/2
- to 5 hrs.) COVER BEAKER WITH WATCH GLASS
- 4. read solution on DCP

Note: tests S-9 and S-10 used Method A tests S-11 and S-12 used Method B

- 5. Remove from heat and cool. Tip beaker while cooling
- 6. Add dist water and decant. repeat 4 tames
- 7. weigh and read precips

III. FORMULAS

A. To convert ppm from DCP Assay to oz per ton

B. 30 gm ore sample represents 1 assay ton. 1 miligram result equals 1 ounce per ton of the material assayed. This is used for fire assays

IV. SOLUTIONS FOR DCP ASSAY (solutions used to put ore in form to be read by DCP machine)

- A. NITRIC + HYDROGEN PEROXIDE METHOD (also known as Englehart method)
 - 1. nitric + hydrogen peroxide (35%) Cook until no further action

2. add hydrocloric, 3 times solution.

- 3. cook. when action stops add 100 ml of 3-1 aqua regia
- 4. cook until sample turns white (about 12 hrs or as required)
- 5. read solution on DCP

B. JIM'S DCP SOLUTION

1. 35% peroxide + hypochlorite. Heat. (expect a violent reaction)

2. slowly add 150 ml hydrocloric acid

- 3. cook (hot boil) until 99% of the materials turn white. (1 1/2 to 5 hrs.) COVER BEAKER WITH WATCH GLASS
- 4. read solution on DCP

Note: tests S-9 and S-10 used Method A tests S-11 and S-12 used Method B

TEST: S-la DATE: 4-2-86

METHOD: OMEGA MINERALS CHEMICAL LEACH

ORE: #1 STUT CONS

BY: A.S.

RESULT: INCOMPLETE DIGESTION ON UNGROUND ORE

TEST OVER.

TEST: S-1b
DATE: 4-2-86

METHOD: OMEGA MINERALS CHEMICAL LEACH

ORE: #2 STUT CONS

BY: A.S.

RESULT: INCOMPLETE DIGESTION ON UNGROUND ORE

TEST OVER

TEST: S-1c DATE 4-2-86

METHOD: SILVER INQUART FIRE ASSAY. STD FLUX

ORE: #1 STUT CONS

WGTS:

ORE: 5GM Ag: 5GM

BY: A.S.

RESULT: NOT ENOUGHT SILVER FOR INQUART. TEST OVER

TEST: S-2 DATE: 4-3-86

BY: A.S.

METHOD: SILVER INQUART FIRE ASSAY. STD FLUX

ORE: #2 STUT CONS

WGTS:

ORE: 5GM Ag: 15GM

RESULTS: SILVER BEAD: 15.7093 GM (SPLIT)

7.8472 GM- TO EV FOR ANAYLSIS

7.8621 GM- TO A.S.

A.S. PUT INTO NITRIC ACID PARTING SOLUTION, THEN FUSED TO NITRATE SALTS. (SHOULD LEAVE AU AND PTG AS RESIDUE) RESIDUE GIVEN TO EV FOR ANALYSIS.

TEST OVER

TEST: S-3 DATE: 4-2-86

BY: A.S.

METHOD: SILVER INQUART FIRE ASSAY. STD FLUX

ORE: #3 STUT CONS

WGTS:

ORE: 5 GM Ag: 15 GM

RESULTS: SILVER BEAD

15.0620 GM (SPLIT)

8.5929 GM- TO EV FOR ANALYSIS

7.4691 GM- TO A.S.

A.S. PUT IN NITRIC ACID PARTING SOLUTION SHOWS TR AU.

TEST OVER

T EST: S-3a DATE: 4-3-86

BY: A.S.

METHOD: SILVER INQUART FIRE ASSAY. STD FLUX

ORE: TAILS- STUT (REGROUND AT OMEGA MINERALS)

WGTS:

ORE:

5GM

Ag:

15GM

RESULT: SILVER BEAD

15.3057 GM (SPLIT)

9.1390 GM- TO EV FOR ANALYSIS

6.1667 GM- TO A.S.

TEST:S-4

DATE: 4-3-86

BY: AS.

METHOD: SILVER INGUART FIRE ASSAY. STD FLUX

ORE: #1 STUT CONS

WGTS:

ORE:

5 GM

Ag:

15 GM

RESULTS: SILVER BEAD

15.4121 GM (SPLIT)

8.0456 GM- TO EV FOR FURTHER ANALYSIS

7.3665 GM- TO A.S.

A.S. PUT IN SULPHERIC ACID PARTING SOLUTION. SAME TEST AS LARGER SAMPLE IN TEST S-13. RESIDUE FROM THIS TEST COMBINED WITH RESIDUE FROM S-13. ALL GIVEN TO EV FOR ANALYSIS.

TEST OVER

TEST: S-5
DATE: 4-3-86

BY: A.S.

METHOD: SILVER INQUART FIRE ASSAY. STD FLUX

ORE: #1 STUT CONS

WGTS:

ORE:

5 GM

Ag:

30 gm

RESULTS: SILVER BEAD

29.8611 GM (SPLIT)

16.5069 GM- TO EV FOR FURTHER ANALYSIS

13.3542 GM- TO A.S.

A.S. PUT IN NITRIC ACID PARTING SOLUTION. BOIL DOWN. SHOWS TR AU.

TEST OVER

TEST: S-6 DATE: 4-3-86

BY: A.S.

METHOD: SILVER INQUART FIRE ASSAY. STD FLUX

ORE: HEAD ORE

WGTS:

ORE:

5 GM

Ag:

15 gm

RESULTS: SILVER BEAD:

14.9243 GM (SPLIT)

6.7567 GM- TO EV FOR FURTHER ANALYSIS

8.1676 GM- TO A.S.

TEST: S-7 DATE: 4-3-86

BY: A.S.

METHOD: SILVER INQUART FIRE ASSAY. STD FLUX

ORE: #1 STUT CONS

WGHTS:

ORE 5 GM Ag: 15 GM

RESULTS: SILVER BEAD

15.0227 GM (SPLIT)

7.8458 GM- TO EV FOR FURTHER ANALYSIS

7.1769 GM TO A.S.

TEST: S-8
DATE: 4-3-86

BY: A.S.- SILVER INQUART/ J.C. DCP ASSAY

METHOD: SILVER INQUART FIRE ASSAY. STD FLUX. SPLIT BEAD; PUT 1.040 IN ENGLEHART SOLUTION AND READ ON DCP. PUT OTHER PART IN NITRIC ACID PARTING SOLUTION, WEIGHED RESIDUE

ORE: BLEND 50/50 #1 STUT CONS AND #2 STUT CONS

WGTS:

ORE:

5GM- #1

5GM- #2

Aq:

7GM

RESULT: SILVER BEAD

6.9441 GM (SPLIT)

1.0410 GM - TO J.C. FOR DCP ANALYSIS

5.9031 GM - TO OMEGA MINERALS FOR SULPHERIC

ACID PARTING

A. DCP ASSAY WT. 1.0410 V= 500 ML OZ PER TON PPM Au 8.68 .62 Pt 7.00 .50 Pd 3.08 .22 Ru 11.90 .85 Rh 9.80 .70 Ir 33.11 2.40

reference JB LABS

6.58

nt

B. SUPHERIC ACID PARTING

1.0410

Os

Ag

= % OF BEAD USED IN DCP ASSAY

. 47

nt

WEIGHT OF PRECIP= 18.2 GM

WEIGHT OF PRECIP X % X3 (SAMPLE SIZE IS 1/3 ASSAY TON) EQUALS 64.23 OZ AU & PTG PER TON

64.23 OZ PER TON

6.42 MINUS 10% SILVER NOT IN SOLUTION

57.81 Au and PTG per ton

TEST OVER

TESTS: S-9/ S-10/ S-11/ S-12 SEE BELOW

DATE 4-3-86

BY: J.C.

METHOD: ACID DIGESTION. DCP ASSAY

ORE: #1 STUT CON #2 STUT CON #3 STUT CON TAILS SEE BELOW

WGTS: 2.5 GM

RESULTS:

	TEST S-9 JB TST #2018 WT: 2.5 GM V= 250 ML ORE: #1 S CON	TEST S-10 JB TST #2019 WT: 2.5 GM V= 250 ML ORE: #2 S CON	TEST S-11 JB TST #2020 WT: 2.5 GM V= 90 ML ORE #3 S CON	TEST S-12 JB TST #2021 WT: 2.5 GM V= 75 ML ORE: TAILS
	OZ/TN PPM	OZ/TN PPM	OZTN PPM	OZ/TN PPM
Au Ag Os Pt Pd Ir Ru Rh	1.14 .39 6.18 2.12 1.22 .42 2.65 .91 .99 .34 6.99 2.4 3.26 1.12 2.80 .96	.5 .17 2.77 .95 1.10 .38 2.50 .86 1.02 .35 6.59 2.26 3.06 1.05 2.62 .90	1.15 1.1 3.78 3.6 3.04 2.9 4.61 4.4 1.40 1.34 16.06 15.30 6.40 6.1 5.45 5.2	.70 .81 2.79 3.20 1.53 1.75 2.01 2.30 .76 .87 8.22 9.40 3.15 3.6 1.05 1.2

NOTE:a. TESTS S-11 & S-12 RAN WITH "JIM SOLUTION"

b. TESTS S-9 & S-10 RAN WITH "ENGLEHART SOLUTION"

TEST: S-13 DATE:4-4-86 BY: J.C. & A.S.

METHOD: LARGE SILVER INQUART FIRE ASSAY. STD FLUX

ORE: BLEND OF STUT CONS AND TAILS TO EQUAL HEAD ORE

WGHTS:

#1 CONS 2.1GM #2 CONS 61.4GM #3 CONS 100.0GM TAILS 292.0GM TOTAL 455.0GM Ag 220.0gm

TOTAL FIRING 677.0GM

RESULTS: SILVER BAR: 117.2 GM- 1ST POUR

98.5 GM- 2ND POUR 215.7 GM- TOTAL

BARS ROLED AND PUT INTO SULPHERIC ACID PARTING SOLUTION.
ON 4-5-86 DIGESTION OF BARS NOT COMPLETE. AVAILABLE RESIDUE GIVEN TO
EV FOR ANALYSIS; SOME KEPT BY A.S. FOR ANALYSIS ON DCP AT JB LABS. A.S.
TO COMPLETE BAR DIGESTION AND SEND RESIDUE TO EV FOR ANALYSIS.

TEST: S-14 DATE: 4-4-86

BY: J.C.

METHOD: DIRECT FIRE ASSAY. STD FLUX; LEAD COLECTOR

ORE: #1 STUT CON

WGTS:

ORE: 30 GM

RESULTS: CUPELED.

3.3 MG BEAD. APPEARS TO BE MOSTLY SILVER.

BEAD GIVEN TO EV FOR ANALYSIS

TEST OVER

TEST: S-15 DATE: 4-4-86 BY: J.C. & A.S.

METHOD: LARGE SAMPLE, STRAIGHT FIRE ASSAY. STD FLUX. LEAD COLLECTOR.

ORE: #1 STUT CONS

WGT: 500 GM

RESULTS: SILVER BAR 80.4 GR (SPLIT AS FOLOWS:)

10.38 GM TO EV FOR DCP ANALYSIS 18.5 GM TO EV FOR OTHER ANALYSIS

10.5 GM PARTED IN DILUTE NITRATE. RESIDUE WEIGHS 9 MG.

42.1 GR CUPELED. BEAD WEIGHS 10.9 MG. GIVEN TO EV FOR ANALYSIS.

TEST OVER

LABORATORIES

AND C ISULTING

600 EAST 11800 SOUTH ORAPER, UTAH 84020 Telephone 571-3695

Certificate of Analysis

Dates

April 29, 1986

Clients

Harness-Mettling 423 Avenida Granada

San Clemente, California 92672

Sample Number:

22091 - 22093

(#1 Cons, #2 Cons, Tails)

Date received

April 28, 1986

Submitted by:

Harness-Mettling

Samples analyzed for:

Gold, Silver, Platinum, Palladium (by several methods)

Results:	·				
Sample	Method Used	Gold (oz/t)	Silver (oz/t)	Platinum (oz/t)	Palladium (oz/t)
#1 Cons	Fire Assay (followed by dissolution of residue by aqua regia and atomic absorption analysis)	0.309	1.765	0.016	0.014
	Special Fire Assay	0.405	(Less than a	dded) 0.018	0.012
	Atomic Absorption Analysis	0.321	1.721	0.022	0.014
	Hydrogen Peroxide-hypochlo- rite; Hydrochloric Acid		5		
	Atomic Absorption	0.389	1.775	0.035	0.020
	DCP (fire assay of solution)	3.646 (0.467)		13.987	5.15
#2 Cons	Fire Assay (same as above)	0.053	0.885	0.010	0.005
	Atomic Absorption Analysis	0.058	0.797	0.011	0.009
Tails	Fire Assay (same as above)	0.054	0.277	None Detec	ted None Detected
	Atomic Absorption Analysis	0.049	0.233	Less than 0.005	Less than 0.005

Remarias

Analysis of DCP solution for the following metals was also done with the indicated

results: (#1 Cons)

Rhodium: 100.52 oz/t

4.45 oz/t Osmium:

152.525 grams of #1 Cons (78.15 gms) and #2 Cons (74.375 gms) were fired in a gas furnace following exactly instructions given by Jim Cousino with the following

results:

Gold: 0.193 oz/t

Platinum: 0.017 oz/t

Rhodium: less than 0.001 oz/t

G. Lyn Kimball, Manager

Palladium: 0.011 oz/t

ALL VALUES REPORTED AS INDICATED

KIMBALL LABORATORIES

AND CC.ISULTING

ORAPER, UTAH 84020 Telephone 571-3695

Certificate of Analysis

Date

April 30, 1986

Clients

Harness-Mettling 423 Avenida Granada

San Clemente, California 92672

Sample Number:

22091 - 22093

(#1 Cons, #2 Cons, Tails)

Date received

April 28, 1986

Submitted by:

Harness-Mettling

Samples analyzed for:

As below indicated

Results:

Page 2

Portions of a silver button furnished by Mr. Harness and Mr. Mettling were parted, one piece in nitric acid and another in sulfuric acid. The following results were obtained:

Nitric acid parting

Sulfuric acid parting

11.62 % Gold

11.60 % Gold

All methods of analyzing the materials, with the exception $\,$ of the DCP method, are in general agreement.

Remarks

G. Lvn Kimball, Manager

ALL VALUES PEPORTED AS INDICATED

MEMO

report of assay results from Beckman Industries, Houston, Texas.

(Note: Beckman Industries is the manufacturer of the Direct Coupleing Plasma -DCP- analytical machine which has been used to read and identify the PTG metals throughout the recent analysis)

The written report has not been recieved by UFO Mining Limited Partnership.

Test conducted by: Paul Watson

Beckman Industries Houston, Texas

Ore: Stut #1 Cons; Stut #2 cons; Stut Tails; Head Ore. (Lone Star Ore

	#1 Con	#2 Con	Tails	Head Ore
Ag Au Ir Pd Pt Rh	2.2 nil 2.7 2.5 .9	2.32 nil 5.3 4.0 1.0	2.27 nil 3.9 2.8 1.1	4.68 nil 5.1 3.0 1.0

Unable to test for Os and Ru. All values above are Oz per ton.

Solution: Jim Method (see ore test report)

DEP! MENT OF MINERAL RESOURC. STATE OF ARIZONA FIELD ENGINEERS REPORT

Mine

LONE STAR

Date

October 30, 1942

District

Castle Creek, Yavapai County

Engineer

A. C. Nebeker

Subject:

Owner: G. A. Westerdahl, Castle Creek, Arizona.

Operator: A. W. Nickle (lessee), Castle Creek, via Morristown, Arizona.

Principal Metals: Gold-copper-lead

Production Rate: 9 tons per week of high grade - low grade left on dump.

Power - Amt. & Type: Portable compressor.

Operations - Present: Consists of some prospecting and drifting along the vein and saving what ore will stand for the high trucking charges.

Operations - Planned: If access road is constructed into the district it is proposed to develop both the lead vein and copper vein and move ore to the market as fast as possible.

Number Claims, Title, etc.: Three - title held by doing work and recording same.

Description - Topog. & Geog.: The property is located in the upper reaches of the Castle Creek wash, the hills being dissected by smaller ravines. The property is about 36 miles out from Morristown and by proposed road about 18 miles from Wickenburg.

Mine Workings - Amt. & Condition: The mine is opened by tunnel on the copper vein, and also a winze from tunnel level following the ore. Down the hill from the tunnel a shaft is being made on the lead vein.

Geology & Mineralization: The geology consists of the Yavapai schist and Bradshaw granite intruded by porphyry dikes. The vein which cuts the formation has a strike of N 30 W and a dip of 35 degrees S.W. The thickness of vein from 1 ft. to 5 feet. Mineralization is gold, copper, lead and iron ores with values in copper from 3% to 20%; leads running from 5 to 50% lead. The iron is well oxidized.

Ore - Positive & Probable, Ore Dumps, Tailings: There is not any positive ore worth mentioning as the ore has been sorted and shipped when opened up. There is a small dump of several hundred tons of ore which could not stand the trucking charges. It looks as if there could be developed a sizable tonnage of ore in this property.

Road Conditions, Route: The present route from Morristown is very poor, but with but a small amount of work this property can be connected with the new proposed road out from Wickenburg and the trucking distance will be cut by 50%.

Water Supply: It will be necessary to develop water in the creek bottom, which can be done easily.

Brief History: This property is like others in this Castle Creek district. It has been worked mostly for gold, but when copper ore assayed high enough to ship out it has been sent to market.

Special Problems: Roads
Remarks: Worth developing.

(Signed) A. C. Nebeker

RAMO

The Lone Star mine was relocated in 1973 and again in 1977 by Mr. Larry Raddon et.al., and has been periodically worked since then to recover materials applicable to the Lapid-ry industry. The mine is situated on the southern flank of the Bradshaw range of central Arizona, approximately 40 miles northeast of Wickenburg, Arizona. Access to the mine is provided by taking the Castle Hot Springs road northeast from Morristown to the Yavapai County maintenance camp then travelling 12 miles up the Castle Creek creek bed to a narrowing called "the box", then ½ mile northeast to the mine camp.

The mine area is semi-arid in nature with a mean elevation of 3200 ft. Rainfall is sporadic and received mostly between December and February. Practically all of the streams in the area are intermittent. Castle Creek was flooded for the first time in recent history during the spring of 1979 providing difficult access to the mine site for over a month. In general, the open season extends from September through May. Summer months are prone to very high temperatures which may affect working conditions.

Literature references on the Lone Star mine are scant, miscellaneous assay reports and mine production records are in the possession of Mr. Larry Raddon the mine operator.

A large tonnage of ore has been removed from the second and third levels of the Lone Star within the last fifty years. Methods used included drifting, crosscutting, and stopeing of the high-grade vein. I estimate that approximately 4000 tons of high-grade ore has been removed from the second and third levels of the mine. The majority of ore left on these levels exists as debris on stope floor cribbings and as pillars up and down dip from the second level drift.

There is little doubt that this area, particularly the Lone Star and Copperopolis mines were worked by very early prospectors. The existance of an ore milling site and stone foundation outlines suggest that a mine camp was established to mill the gold bearing quartz facies outcropping southeast of the Lone Star. The presence of placer gold nuggets in this immediate area also suggests that these early camps were not large scale operations and did not recover all of the native metals present in the placer deposits.

The area containing the Lone Star mine is comprised of pre-cambrian granitic gneisses and schists with foliation strikes from N45°W to N75°W and dips from 45° to 75° southwest. Several facies can be recognized within this sequence, large 5 to 30mm black tournaline crystals exist within the pegmatite facies, biotite-magnetite schists are present in units ranging to 5 meters in thickness, and granitic facies exist in thicknesses to 45 meters. The Lone Star vein is concerdant to and emplaced in these granitic gneisses.

The immediately surrounding areas of pre-cambrian rocks are unconformably overlain by Tertiary volcanics (flows) and volcaniclastic sediments. The upward extent of the vein does not intersect overlying volcanics which suggests that the vulcaniism was a post-emplacement event. The lateral extent of the Lone Star vein is marked by two prominent granitic gneiss outcroppings. These outcroppings are light brownish red weathering and are not heavily mineralized.

The Lone Star vein is typically rust colored due to iron oxide weathering products, and areas in the high-grade zone (the center of the vein) show large quantities of colorful copper minerals including malachite, azurite, and chrysocolla. These minerals are contained in a matrix of nearly decomposed copper, iron, and lead sulphides with blotchy zones of magnetite, hematite, and limonite. Identifiable minerals in hand specimens include: azurite, malachite, chrysocolla, turquoise, limonite pseudomorphs after chalcopyrite and pyrite, hematite, magnetite, sphalerite, galena, cerussite, pyromorphite, and red to yellow haloes on galena nodules which are suspected to be litharge and/or minium. Polished ore sections show native silver ribbons as part of this assemblage.

Vein emplacement is of the Cordilleran type and is structurally controlled by the enclosing granitic gneisses. Minor variations in foliation dip and strike of these gneisses indicate a gentle fold and an enlargement of the ore body

along the axial plane of the fold (see figure 2). Epigenetic mineralization was influenced not only by structure but also by the permiability of the original biotite and orthoclase rich facies within the gneisses.

Hydrothermal solutions rising from depth provided the initial mineralization in the vein. The primary ore was most likely a chalcopyrite ore. Subsequent downward percolation of ground water altered the original sulphides to provide a suite of sulphosalts, carbonates, and oxides, as well as releasing native gold and silver. Gold contained in the vein exists as very small nuggets in quartz rich facies and nearly colloidal types in limonite rich facies. Most of the gold appears to have been a colloidal impurity in the original sulphide structures. The silver occurred as the impurity Acanthite associated with galena in the vein, and as native wire in quartz rich facies. Ground water alteration levels in the vein will decrease with depth. The enclosing gneissic rocks show a gradational level of mineralization outward from the central high-grade zone. This gradational alteration was _ drilled in level 4 (see figure 5) and its components were assayed to determine levels of metal content.

A vertical shaft was driven southwest of the level 2 drift area in an attempt to intersect the vein down dip. There is no evidence that the vein was intersected, questions on the nature of the vein at depth could be answered by an exploratory core drilling program.

RESERVES

Lone Star mine reserves are separated into the following categories:

- 1) MEASURED RESERVES are physically measurable high-grade ores exposed surficially and subsurface in levels 2-3.
- 2) INDICATED RESERVES are up-dip, and down-dip, and along strike indications of high-grade ore continuity bordering on measured reserve areas.
- 3) INFERRED RESERVES are calculated from a thinning but continuous high-grade vein to level 4 depth and bordering on indicated reserve areas.
- 4) DUMP RESERVES are physically measured mine dump materials in level 2, 3, and 4.

Type of Reserve	Level 1	Level 2	Lovel 3	Level 4	Totals
Measured	80-70	3704 ton	gum.	ens.	3704 ton
Indicated	450 ton	409 ton	851 ton	-	1710 ton
Inferred	225 ton	289 ton	1560 ton		2074 ton
Dumo	***	129 ¹ + ton	963 ton	56 ton	2313 ton
	Refer	to figures	3 and 4		

Level 4 reserves will be determined from assays of samples illustrated in figure 5. Confirmation of value in the level 4 ore zone will add significantly to reserve measurements.

NEW CLAIM AREAS

The Lone Star mine is located on an ore zone which is continuous and mappable with a general strike of N45°W and dip of 50° southwest. The vein has been prospected by crosscuts immediately northwest and southeast of the Lone Star.

The Copperopolis vein is located directly north of the Lone Star vein and has been extensively worked by declined shafts and crosscuts. The vein has a general attitude striking 1175°W and dipping 65° to 70° southwest.

Strike projection of the Lone Star vein and the Copperopolis vein shows a probable intersection indicated by a nearly bald red knob outcropping one mile northwest of the Lone Star. There are no apparent workings on the knob and the area should be considered for future prospect work.

UFO #1 through #10 claims were located as a protective cover on the Lone Star lode claim area (see figure 6). The centerline of the new group approximates the strike of the Lone Star vein as it extends under Tertiary volcanic formations to the southeast. A significant deposit of lode, and in particular, placer gold may exist downstream from the Lone Star through UFO #5, UFO #6, and UFO #4. Prospect panning in UFO #4 produced small native gold nuggets of approximately \$\frac{1}{2}\$nm to \$\frac{1}{2}\$nm diameters.

These nuggets were sub-rounded to sub-angular and free of matrix or limonite staining. He estimates of the centent of the placer areas are given here. Of primary concern to placering, the irregularity of rater supply will dictate the type of processing necessary to recover free gold in this area. An accurate estimate of gold content can be arrived at by-removal of 5 to 10 tons of colluvium and alluvium from the creek bed and mechanically concentrating it. The heavy metal concentrate could then be processed on site or shipped to a final recovery site. This area should definately be of interest to the company for further exploration and assessment. Additional claims may be necessary to adequately protect these adjoining lode and placer areas.

X

X

LONE STAR MINE, CASTLE CREEK MINING DISTORICT, NE 1/4, SW 1/4, SECTION 33, T. 9 N., R. 2 W., YAYAPAI COUNTY, ARIZONA

×

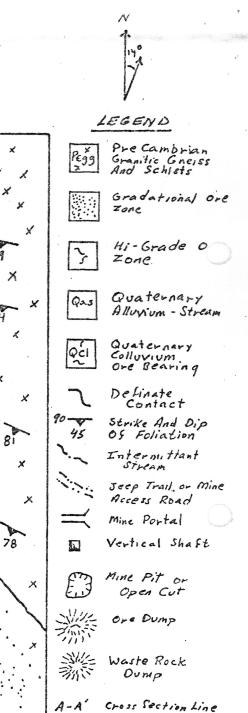
Χ

X

Х

X

X



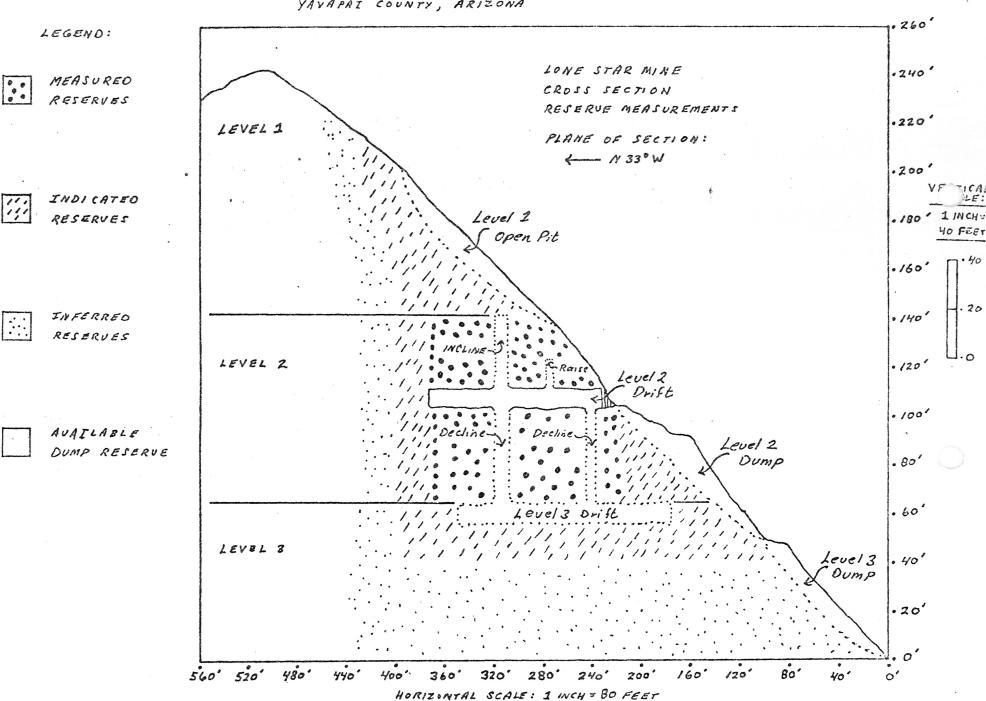
84

×

Qas

SCALE: 1 INCH = 75 FEET

15 50 25 0 25 50 75

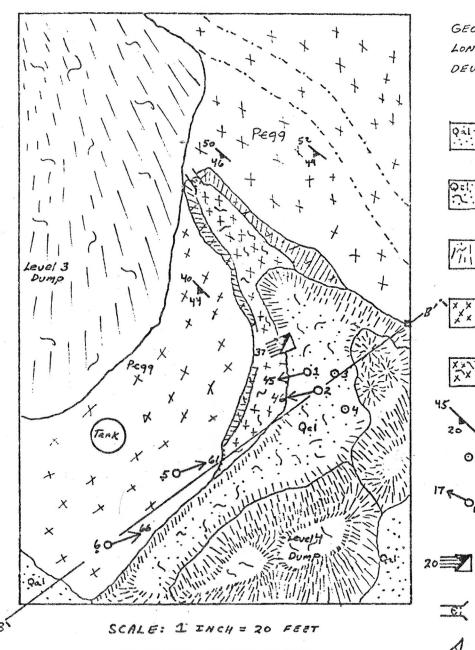


40

80 St

LONE STAR MINE, ITLE CREEK MINING DISTRICE, NEY, SWY, SECTION 33, T. 9N., R. 2 W., YAVAPAI COUNTY, ARIZONA





10 FEET

VOLUME (APPROximate): 225 Cubic yards

GEOLOGIC MAP LONE STAR MINE DEUELOPMENT LEVEL (LEVEL 4)

LEGENO

Quaternary Alluvium

Quaternary Collusium ore Bearing

Ore Bearing Dump

Pegg: Pre- Cambrian Granitic Gneiss.

FEGY ... Gneiss Ore Bearing PEgg: Pre-Cambrian Graintic

Strike And Dip of Foliation

07 Vertical Orill Hole and Hole Number

O Drill Hole Showing Bearing And Inclination. Adjacent Hole Number

> Declined Shaft Showing Bearing And Inclination

Portal And Open Cut

CLIFF FACE

Development Pit or Open Cut

Definate Contact

Access Road or Trail

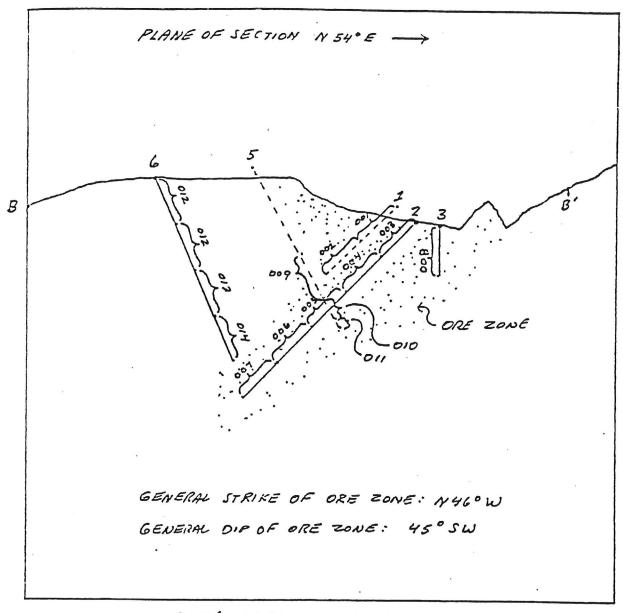
Waste Rock Dump

B-B' Cross Section Line

LEVEL 4 OUMP:

DENSITY: 2.5 TONS/ CUBIC YARD

TONNAGE: 563 TONS ORE BEARING



B-B' DRILL HOLE LO CATIONS

SCALE: 1 INCH = 20 FEET

Hole;	# Bearing	Inclination	Assay Sample Nombers
1	5 80°W	45050	001, 002
2	582° W	46° 50	003, 004, 005, 006, 007
3	-	Vertical	008
4		Vertical	Abandoned
5	N 70°E	61° NE	009, 010, 011
6	N 70° E	66° HE	012, 013, 014
All	Orill Holes	Ported Date	Plane of Sector Rep.

LONE-STAP

Measured Reserves Level II--3,704 Ton

Indicated	Level	III	450 Te 409 Te 851 Te	on
Inferred Reserve	S	I III IV	225 T 289 T 1,560 T 11,252 T	on on
Dump		III III	1,294 T 963 T 56 T	on
Т	otal		21,053 T	on

VALUE / \$ /	Assay			
. 85	Copper	347.8	Ton	\$ 591,235
8.50	Oz. Silver	18,231.0	oz	154,965
280.0	Oz. Gold	265.3		74,292

Prices as of June 17, 1979

Geologist: Mike Madsen

DEPARTMENT OF MINERAL RESOURCES STATE OF ARIZONA MINE OWNERS REPORT

Date

July 31, 1941

Mine

Rhoades - Iola

Mining District & County - Castle Creek Dist.

Yavapai County

Former Name

Owner - A. H. Beam

Operator

President, Owning Co.

Gen. Mgr.

Mine Supt.

Mill Supt.

Men Employed

Operations: Present

400

- Rhoades la miles north

Location - Rhoades 1 miles north of Briggs. Iola 2 miles north of G. A. Westerdahl's residence.

Address - 228 S. McCormick Prescott, Arizona

Address

President, Operating Co.

Principal Minerals - Copper and manganese. 10% molybdenum. pyrolusite 6 in. on foot wall.

Production Rate

Mill: Type & Cap.

Power: Amt. & Type-

Beam, A. H. 222 S. McCormick Box 54 Prescott, Arizona

7=31-41

Jun 153

Orerations: Planned

See MR-36 - Re Mine Owners Report

RHOADES - IOLA , Yavapai Co.

Number Claims, Title, etc. - 2 unpatented claims.

Description: Topography & Geography - Surrounding country steep.

Mine Workings: Amt. & Condition - Location work, small amount of opencut on Rhoades claims. Location work on Iola, half mile from road.

Geology & Mineralization - Fissure veins on both claims. Igneous formation.

Malachite and Pyrolusite.

Ore: Positive & Probable, Ore Dumps, Tailings -

Dimensions and Value of Ore body - Rhoades claim 5 ft. thick, 300 ft. exposed.

Iola 4 ft. thick, 150 ft. vein exposed.

Pyrolusite has not been assayed.

Mine, Mill Equipment & Flow Sheet

Road Conditions, Route - Roads fair.

Water Supply - Good water supply from Castle Creek.

Prief History - Rhoades claim joins Lone Star owned by G. A. Westerdahl which is for sale. 800 ft. tunnels. Assays of copper run 8 to 10 per cent.

Special Problems, Reports Filed - Recorded November 18, 1940
Book of Mines 149 - pages 180, 181

Remarks - G. A. Westerdahl has analysis of copper, chromium and molybdenum.

Lives 26 miles from Morristown on Castle Creek. He will show property.

If property for sale: Price, terms and address to negotiate - Rhoades \$5,000; \$1,000 cash, balance one and two years. Iola \$1,000 cash.

SIGNED - A. H. Beam

228 S. McCormick Prescott, Arizona

DEPARTMENT OF MINERAL RESOURCES STATE OF ARIZONA MINE OWNERS REPORT

Date

July 31, 1941

of Briggs. Iola $\bar{2}\frac{1}{2}$ miles north of G. A. Westerdahl's residence.

Location - Rhoades 14 miles north

Mine Rhoades - Iola

Mining District & County - Castle Creek Dist.

Yavapai County

Former Name

Owner - A. H. Beam

Operator

President, Owning Co.

Gen. Mgr.

Mine Supt.

Mill Supt.

Men Employed

Operations: Present

Address - 228 S. McCormick Prescott, Arizona

Address

President, Operating Co.

Principal Minerals - Copper and manganese. 10% molybdenum. pyrolusite 6 in. on foot wall.

Production Rate

Mill: Type & Cap.

Power: Amt. & Type

Operations: Planned

Number Claims, Title, etc. - 2 unpatented claims.

Description: Topography & Geography - Surrounding country steep.

Mine Workings: Amt. & Condition - Location work, small amount of opencut on Rhoades claims. Location work on Iola, half mile from road.

Geology & Mineralization - Fissure veins on both claims. Igneous formation.

Malachite and Pyrolusite.

Ore: Positive & Probable, Ore Dumps, Tailings -

Dimensions and Value of Ore body - Rhoades claim 5 ft. thick, 300 ft. exposed.

Iola 4 ft. thick, 150 ft. vein exposed.

Pyrolusite has not been assayed.

Mine, Mill Equipment & Flow Sheet

Road Conditions, Route - Roads fair.

Water Supply - Good water supply from Castle Creek.

Prief History - Rhoades claim joins Lone Star owned by G. A. Westerdahl which is for sale. 800 ft. tunnels. Assays of copper run 8 to 10 per cent.

Special Problems, Reports Filed - Recorded November 18, 1940
Book of Mines 149 - pages 180, 181

Remarks - G. A. Westerdahl has analysis of copper, chromium and molybdenum.

Lives 26 miles from Morristown on Castle Creek. He will show property.

If property for sale: Price, terms and address to negotiate - Rhoades \$5,000; \$1,000 cash, balance one and two years.

Iola \$1,000 cash.

SIGNED - A. H. Beam

DEPARTMENT OF MINERAL RESOURCES STATE OF ARIZONA MINE OWNERS REPORT

MINE OWNERS REPORT

Date

July 31, 1941

Mine R

Rhoades - Iola

Mining District & County - Castle Creek Dist.

Location - Rhoades $1\frac{1}{4}$ miles north of Briggs. Iola $2\frac{1}{2}$ miles north of G. A. Westerdahl's residence.

Yavapai County

Former Name

Owner - A. H. Beam

Operator

President, Owning Co.

Gen. Mgr.

Mine Supt.

Mill Supt.

Men Employed

Operations: Present

Address - 228 S. McCormick Prescott, Arizona

Address

President, Operating Co.

Principal Minerals - Copper and manganese. 10% molybdenum. pyrolusite 6 in. on foot wall.

Production Rate

Mill: Type & Cap.

Power: Amt. & Type

Operations: Planned

Number Claims, Title, etc. - 2 unpatented claims.

Description: Topography & Geography - Surrounding country steep.

Mine Workings: Amt. & Condition - Location work, small amount of opencut on Rhoades claims. Location work on Iola, half mile from roads

Geology & Mineralization - Fissure veins on both claims. Igneous formation.

Malachite and Pyrolusite.

Ore: Positive & Probable, Ore Dumps, Tailings -

Dimensions and Value of Ore body - Rhoades claim 5 ft. thick, 300 ft. exposed.

Iola 4 ft. thick, 150 ft. vein exposed.

Pyrolusite has not been assayed.

Mine, Mill Equipment & Flow Sheet

Road Conditions, Route - Roads fair.

Water Supply - Good water supply from Castle Creek.

Priof History - Rhoades claim joins Lone Star owned by G. A. Westerdahl which is for sale. 800 ft. tunnels. Assays of copper run 8 to 10 per cent.

Special Problems, Reports Filed - Recorded November 18, 1940

Book of Mines 149 - pages 180, 181

Famarks - G. A. Westerdahl has analysis of copper, chromium and molybdenum.

Lives 26 miles from Morristown on Castle Creek. He will show property.

If property for sale: Price, terms and address to negotiate - Rhoades \$5,000; \$1,000 cash, balance one and two years. Iola \$1,000 cash.

SIGNED - A. H. Beam

DEPARTMENT OF MINERAL RESOURCES STATE OF ARIZONA MINE OWNERS REPORT

Date

July 31, 1941

of Briggs. Iola $2\frac{1}{2}$ miles north of G. A. Westerdahl's residence.

Location - Rhoades 12 miles north

Mine Rhos

Rhoades - Iola

Mining District & County - Castle Creek Dist.

Yavapai County

Former Name

Owner - A. H. Beam

Operator

President. Owning Co.

Gen. Mgr.

Mine Supt.

Mill Supt.

Men Employed

Operations: Present

Address - 228 S. McCormick Prescott, Arizona

Address

President, Operating Co.

Principal Minerals - Copper and manganese. 10% molybdenum. pyrolusite 6 in. on foot wall.

Production Rate

Mill: Type & Cap.

Power: Amt. & Type

perations: Planned

Wimber Claims, Title, etc. - 2 unpatented claims.

Description: Topography & Geography - Surrounding country steep.

Mine Workings: Amt. & Condition - Location work, small amount of opencut on Rhoades claims. Location work on Iola, half mile from moad.

Geology & Mineralization - Fissure veins on both claims. Igneous formation.

Malachite and Pyrolusite.

Ore: Positive & Probable, Ore Dumps, Tailings -

Dimensions and Value of Ore body - Rhoades claim 5 ft. thick, 300 ft. exposed.

Iola 4 ft. thick, 150 ft. vein exposed.

Pyrolusite has not been assayed.

Mine, Mill Equipment & Flow Sheet

Road Conditions, Route - Roads fair.

Water Supply - Good water supply from Castle Creek.

Prief History - Rhoades claim joins Lone Star owned by G. A. Westerdahl which is for sale. 800 ft. tunnels. Assays of copper run 8 to 10 per cent.

Special Problems, Reports Filed - Recorded November 18, 1940

Book of Mines 149 - pages 180, 181

Remarks - G. A. Westerdahl has analysis of copper, chromium and molybdenum.

Lives 26 miles from Morristown on Castle Creek. He will show property.

If property for sale: Price, terms and address to negotiate - Rhoades \$5,000; \$1,000 cash, balance one and two years. Iola \$1,000 cash.

SIGNED - A. H. Beam

DEPARTMENT OF MINERAL RESOURCES STATE OF ARIZONA MINE OWNER'S REPORT

ARIZONA

2. Location

		10 march 17		11	1. 1/ 2
1.	Mine	Dex.	2014	to Consult	000

a HBeam

- 3. Mining District & County of avantage County
- 5. Owner
- 7. Operator
- 9. President, Owning Co.
- 10. Gen. Mgr.
- 11. Mine Supt.
- 12. Mill Supt.
- 13. Men Employed
- 18. Operations: Present
- 19. Operations: Planned
- 20. Number Claims, Title, etc.

21. Description: Topography & Geography

22. Mine Workings: Amt. & Condition Jocation work small amount of

Parkerte

6. Address (Owner)

8. Address (Operator)

14. Principal Minerals

15. Production Rate

16. Mill: Type & Cap.

17. Power: Amt. & Type

9A. President, Operating Co.

(over)

23. Geology & Mineralization	with claims	
Igneous formation.	Jaco	
malachite to fly to	allete .	
24. Ore: Positive & Probable, Ore Dumps, Tailings	· · · · · · · · · · · · · · · · · · ·	
	and the state of t	
	Stalich 300 A Land	E.A.
211 Dimensions and Value of Our hadre (Area & C. C.)		
24A. Dimensions and Value of Ore body	Thich 150 At Seen Propose	
	thich 150 ft sein englinger shorte has not bee	
and the second of the second o	fully has my ble	
	cay a made also as	
25. Mine, Mill Equipment & Flow-Sheet		
glegosk bakatil Ad	* A Section of the se	
26. Road Conditions, Route face		
20. Road Conditions, Route		
	ef elof bereaters (4 m	
A morning of A I		
27. Water Supply Lattle Enech grod su	4 My	
	V v v	
28. Brief History Phrades Claim Strin		Λ
a a la constante	a Jour of Caro, our neo	X
28. Brief History Phrades Claim Strong Reports Filed	1) Post 100 and Of	ian.
20. Bill History	Ah for the contract of the	
My Ba Walling	Pt 1 / mul cent	
1 D. OVERN F CTYLL RUN	0 20 / 0 /	
of Demonstrate to the first of		
29. Special Problems, Reports Filed		
	a , 1 0 0 00 1	
30. Remarks & a. O. See Tradall has a commence of the control of the will so	any user a complete	
Joseph Derson Vive	3 Charlesparin Frances	1760
and the same	Prince workerly	
. On Laxelle ener hi	and the first of t	
31. If property for sale: Price, terms and address to negotiate.	- A. 85 FAN 81, 500 Cazy	
31. If property for sale: Price, terms and address to negotiate.		
bal I and two gives dolad 1,000	1 Carhaman and Maria	
	I I	
7 440	and a le moca much	
32. Signature N. M. L. Communication of the Communi	928 Some comments Present Origina	
22 11 110 11	Prescott angona	
33. Use additional sheets if necessary.		