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

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PRINTED: 10/21/2002

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: U.S. NAVY

ALTERNATE NAMES:
U.S.
VERDE ANNEX

YAVAPAI COUNTY MILS NUMBER: 244A

LOCATION: TOWNSHIP 13 N RANGE 3 W SECTION 19 QUARTER N2
LATITUDE: N 34DEG 29MIN 43SEC LONGITUDE: W 112DEG 36MIN 28SEC
TOPO MAP NAME: WILHOIT - 7.5 MIN

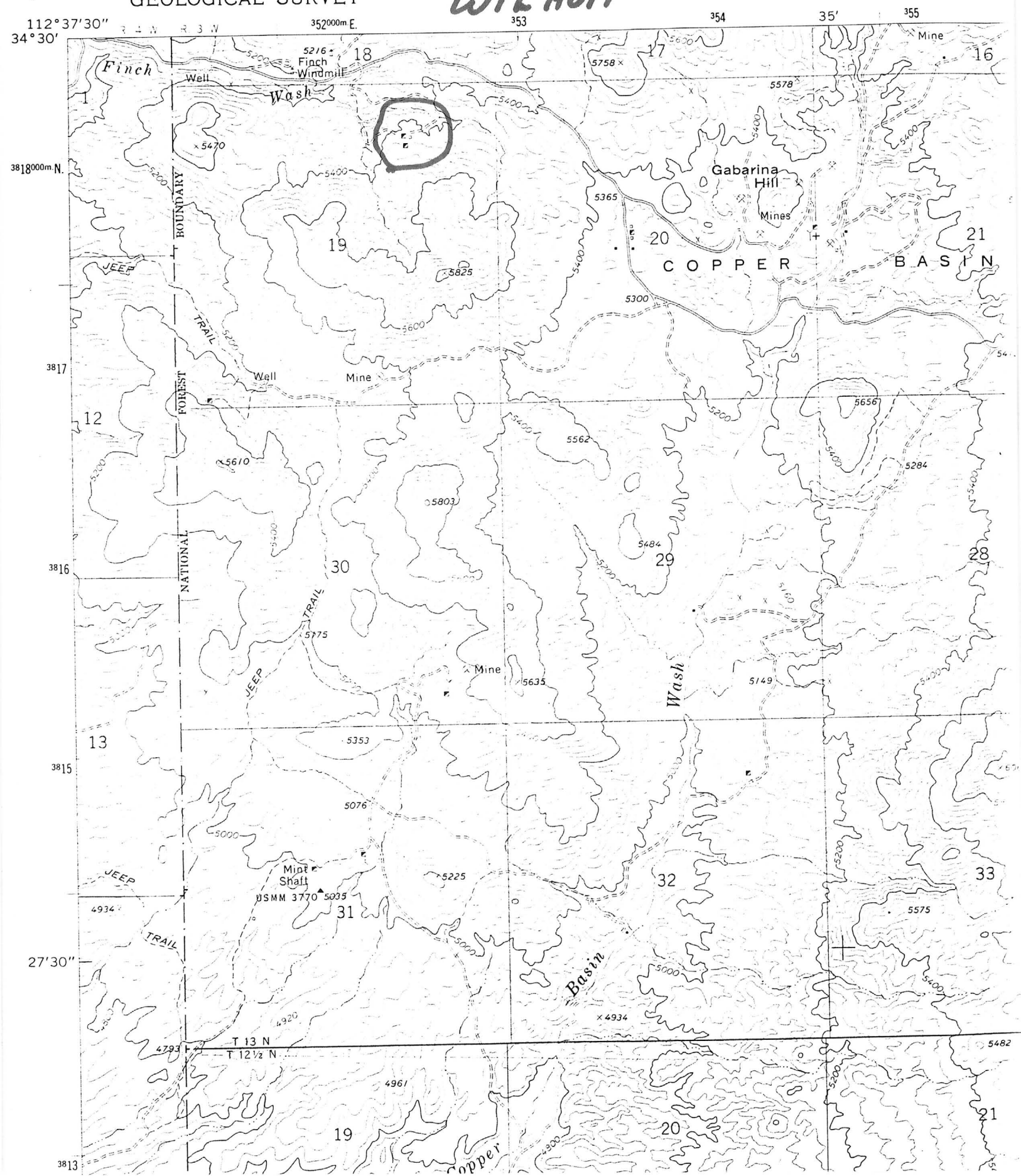
CURRENT STATUS: PAST PRODUCER

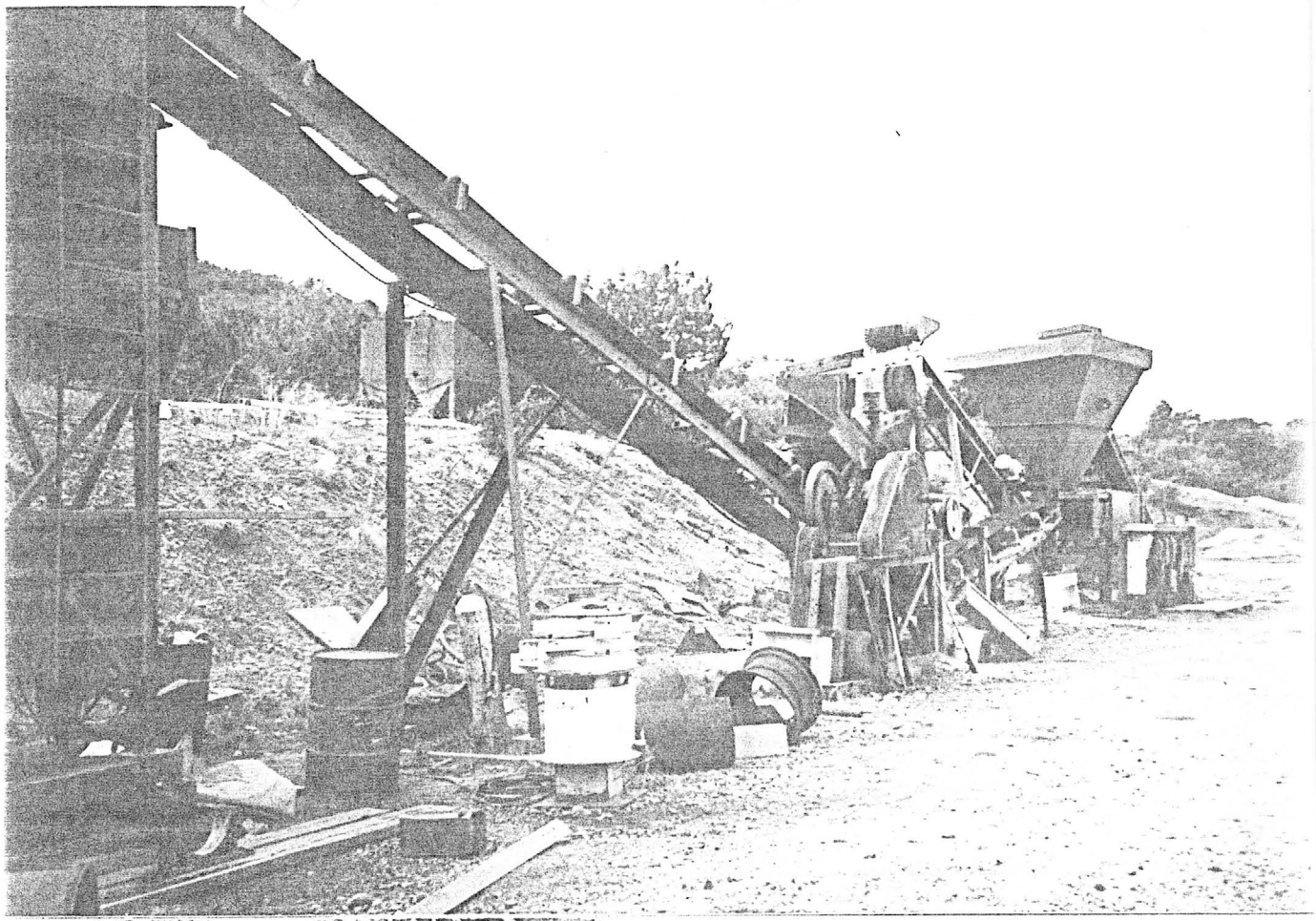
COMMODITY:
LEAD
ZINC
SILVER
COPPER
GOLD
SULFUR
IRON

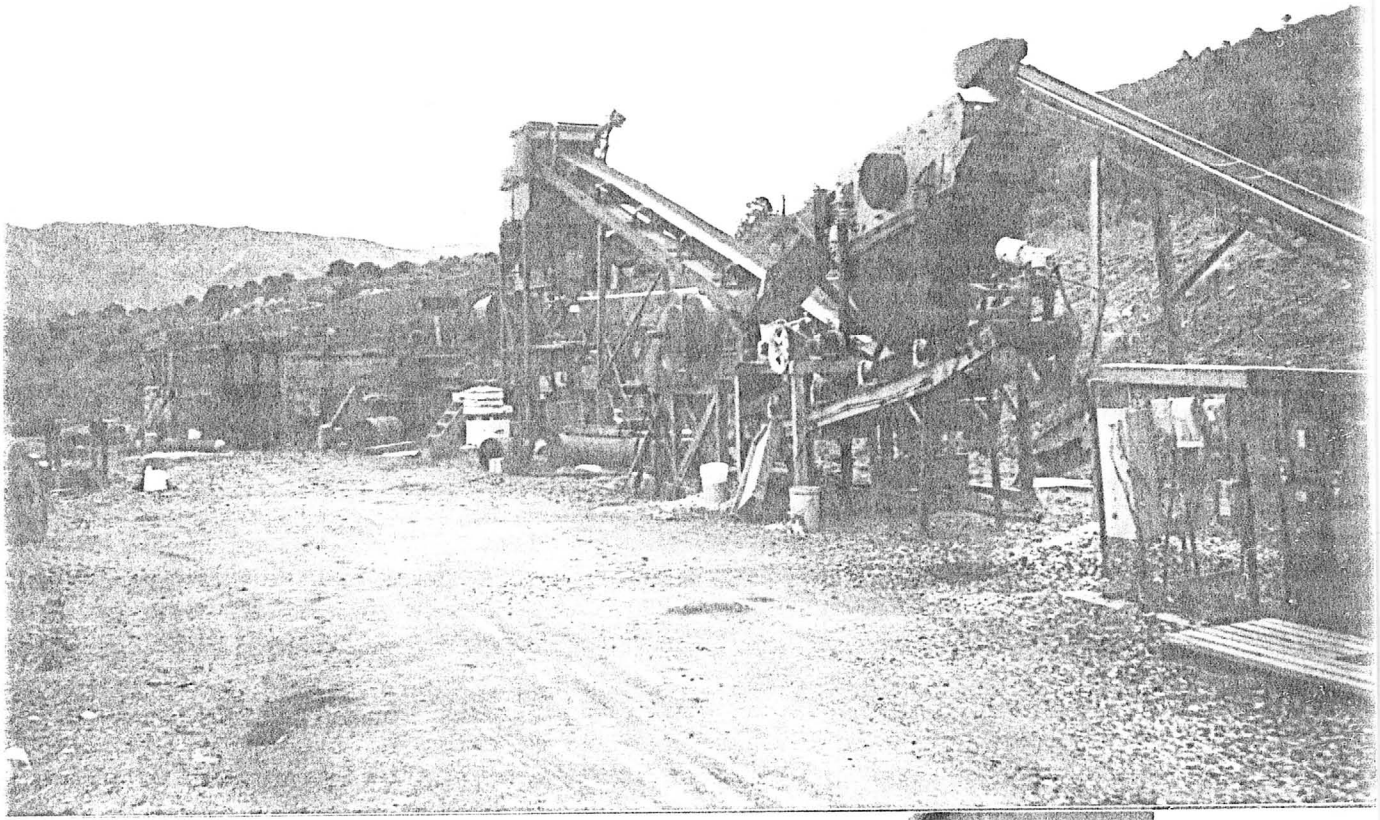
BIBLIOGRAPHY:
USGS WILHOIT QUAD
ADMMR U. S. MINE FILE
BLM AMC FILE 76918
YAVAPAI MAGAZINE APRIL 1918 P 4-7 SHARLOT
HALL MUSEUM PRESCOTT, AZ
CLAIMS EXTEND INTO SEC. 17 & 20
ADMMR U.S. MINE COLVO FILE

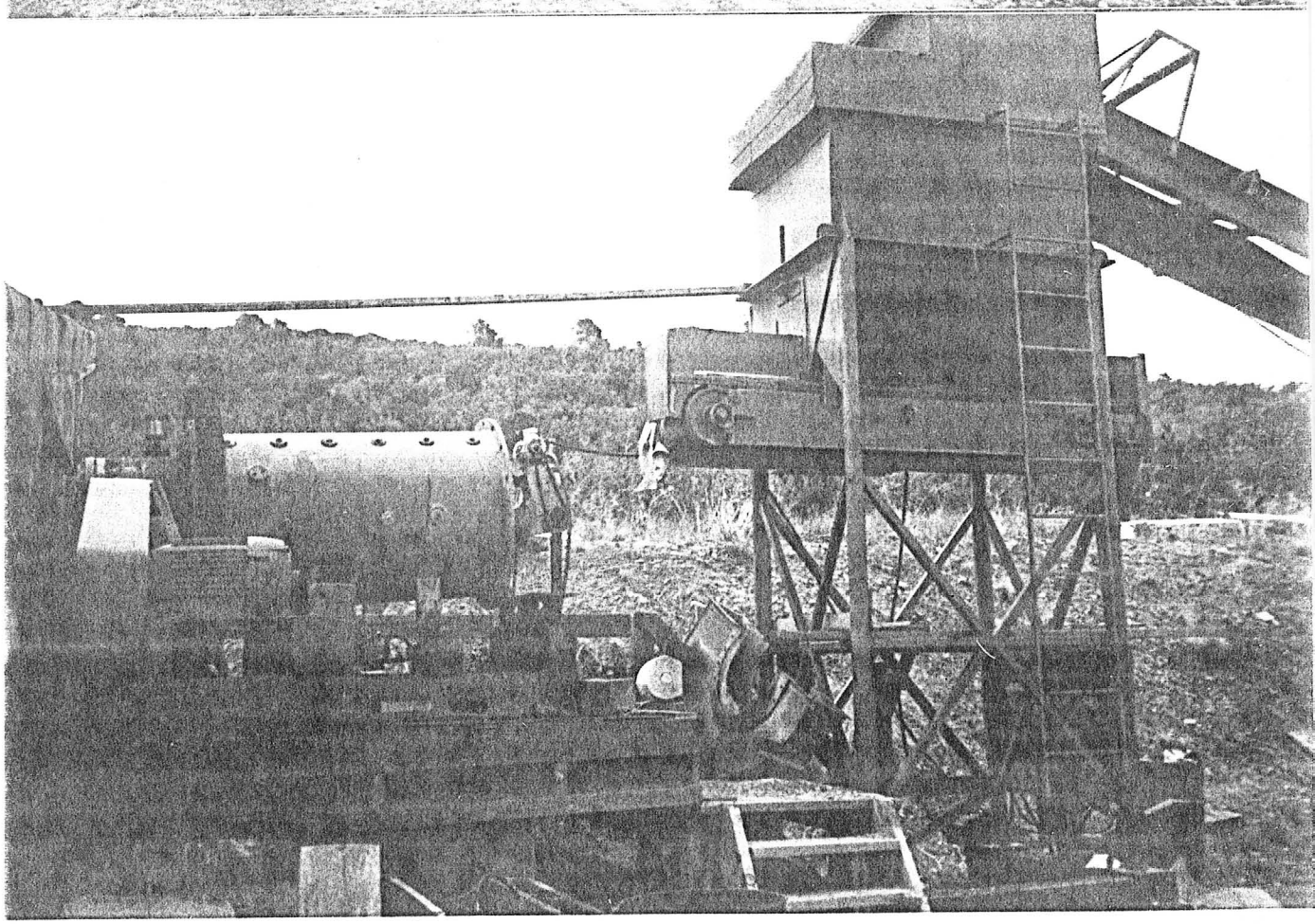
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

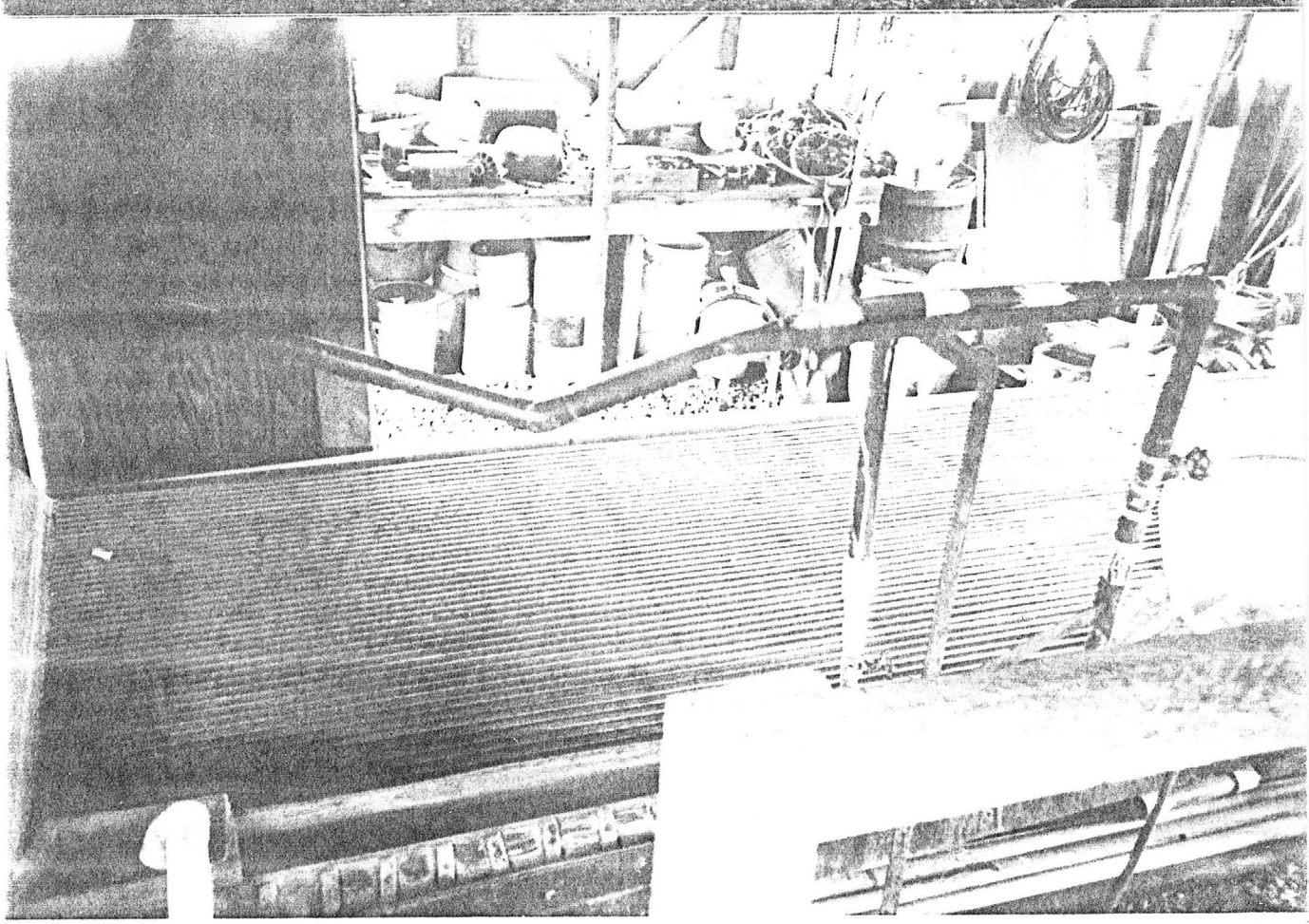
WILHOIT











MRDS RECORD NUMBER.....M003571
RECORD TYPE.....X1M
REPORT DATE.....79 03
INFORMATION SOURCE.....1 2
FILE LINK ID.....USBM-004025 1526
REPORTER.....JOHNSON, K. H.; CREASEY, S. C.
REPORTER AFFILIATION.....USGS, ABGMT , ABGMT , ABGMT , ABGMT
UPDATED.....82 01
UPDATER.....JOHNSON, K. H.; CREASEY, S. C.; ROTH, F.A. (DEWITT, ED)

SITE NAME.....U.S. NAVY MINE
SYNONYM NAME.....U.S. MINE
MINING DISTRICT/AREA.....COPPER BASIN DISTRICT

COUNTRY.....US STATE.....AZ COUNTY.....YAVAPAI
COUNTRY NAME...UNITED STATES STATE NAME...ARIZONA

PHYSIOGRAPHIC PROVINCE.....12
DRAINAGE AREA.....15060202
LAND STATUS.....41
QUADRANGLE NAME..... WILHOIT QUADRANGLE SCALE 1:24000
ELEVATION.....5380 FT
UTM NORTHING...3818030 EASTING...352480 ZONE...+12

LATITUDE.....34-29-42N LONGITUDE.....112-36-24W

TOWNSHIP.....013N
SECTION.....19 18 20 17
SECTIONAL FRACTION.....N2, SE OF SE, N2 OF NW, S2 OF S2
RANGE.....003W
MERIDIAN.....G & SR
POSITION FROM NEAREST LOCALITY.....4 1/2 MILES SE OF SKULL VALLEY

COMMODITIES PRESENT.....ZN PB AG AU CU MO
ORE MATERIALS.....; GALENA, SPHALERITE; BOMITE, LIMONITE, HEMATITE, JAROSITE, CHRYSOCOLLA, CUPRITE, CHALCOCITE, MALACHIT
E, AZURITE, FERRIMOLYBDITE
MAJOR.....PB ZN
MINOR.....CU AG AU
POTEN.....MO

PRODUCTION.....SMALL
STATUS AND ACTIVITY.....8 INTERMITTENT PRODUCER
YEAR OF FIRST PRODUCTION.....1912
YEAR OF LAST PRODUCTION.....1967
OWNER (PRESENT/LAST).....T.W. ALEXANDER, IDA L. HOBBS (1960)
OPERATOR.....VERNARD JORDON, JOE PIERCE (1966)
EXPLORATION AND DEVELOPMENT COMMENTS.....CLAIMS INCLUDE THE U.S. AMENDED, U.S. NO. 1,2,3,4, GERALDINE, AND GALENA KING; THE MIN
E WAS OPERATED IN 1928 BY THE VERDE ANNEX MINING CO.
DEPOSIT TYPE.....VEIN
DEPOSIT FORM.....TABULAR
DEPTH TO BOTTOM.....400 UNITS...FT
DEPOSIT SIZE.....SMALL
STRIKE.....N80E
DIP.....30-45SE
DEPOSIT DESCRIPTION COMMENTS.....BRECCIA PIPE
DESCRIPTION OF WORKINGS.....UNDERGROUND
DEPTH BELOW SURFACE.....550 UNITS...FT
LENGTH OF WORKINGS.....ABOUT 1600 UNITS...FT
DESCRIPTION OF WORKINGS COMMENTS.....WORKINGS INCLUDE AN INCLINE SHAFT WITH DRIFTS AT THE 200 OR 250 FT LEVEL AND A COUPLE OF VE

RTICAL SHAFTS AND A WINZE

HOST ROCK AGE.....PROT;LCRET APPROX AGE EQUAL TO OR GREATER THAN 1740 MILLION YEARS; K/AR = 68 TO 76 MILLION YEARS
HOST ROCK TYPE.....QUARTZ DIORITE; QUARTZ LATITE PORPHYRY
AGE OF IGNEOUS ROCK.....PROT;LCRET SAME AS K1
IGNEOUS ROCK TYPE.....SAME AS K1
AGE OF MINERALIZATION.....CRET-PALEO K/AR AGE OF ASSOCIATED IGNEOUS ROCKS = 68TO 76 MILLION YEARS
PERTINENT MINERALS (NOT ORE).....QUARTZ, PYRITE, CALCITE
ORE CONTROL/LOCUS.....FAULTING, IGNEQUS ACTIVITY
SIGNIFICANT REGIONAL STRUCTURES.....FOLIATION IN PROTEROZOIC ROCKS TRENDS N10E TO N20E
SIGNIFICANT LOCAL STRUCTURES.....VEIN, AND ASSOCIATED DIKE, CROSS-CUT FOLIATION AND TREND N75E
SIGNIFICANT ALTERATION.....MINOR
PROCESS OF CONCENTRATION/ENRICHMENT.....OXIDATION AND ENRICHMENT AR NEAR SURFACE
IGNEOUS UNIT AGE.....LCRET-TERT K/AR DATES OF 68 TO 76 MILLION YEARS
IGNEOUS UNIT AGE.....PROT UNDATED, APROX OLDER THAN 1740 MILLION YEARS
IGNEOUS UNIT NAME.....UNNAMED QUARTZ LATITE PORPHYRY DIKES RELATED TO COPPER BASIN STOCK
IGNEOUS UNIT NAME.....UNNAMED QUARTZ DIORITE
GEOLOGY COMMENTS.....MINERALIZATION IS ASSOCIATED WITH NAVY THRUST FAULT WHICH STRIKES N75E AND DIPS 20 TO 50 SE
REFERENCE....JOHNSTON, W.P., 1961 , GEOLOGY AND ORE DEPOSITS OF MINERALIZED BRECCIA PIPES IN THE COPPER BASIN, ARIZONA; ECONOMIC GE
OLOGY, VOL. 56 , PP. 916 - 940
REFERENCE....JOHNSTON, W.P., 1955, PHD THESIS, UNIV. OF UTAH
REFERENCE....ABGMT-USBM FILE DATA
REFERENCE....CHRISTMAN, TERRY, 1978, MS THESIS, UNIV OF ARIZONA
REFERENCE....ABGMT CLIPPINGS FILES
REFERENCE....ARIZONA DEPT OF MINERAL RESOURCES FILE DATA

CUMULATIVE PRODUCTION

ITEM	ACCURACY	AMOUNT	THOUS UNITS	YEARS	GRADE
ORE	EST	1.00000	TONS	- 1943	

SOURCE OF PRODUCTION INFORMATION.....U.S.B.M. CARD FILE
****

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

August 12, 1958

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

U. S. Navy Mine (Yavapai County) lead, zinc
(Property) (ore)

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

PHOENIX AUG 12 PM 1958 ARIZ.

Mr. Henry L. Williams, Jr.
Box 1226
Prescott, Arizona

NAME OF MINE: U. S. NAVY

COUNTY: YAVAPAI COUNTY C
DISTRICT: COPPER BASIN
METALS: PB, ZN

OPERATOR AND ADDRESS: DATE:		MINE STATUS DATE:	
5/1/44	Henry L. Williams Jr. Box 1226, Prescott Jas England, Jr.	5/1/44	Shut down

U. S. MINE

Pb, Zn, Cu

Yavapai 13 - 2 T 16 N, R 3 W

Henry L. Williams, Jr., Box 1226, Prescott '42

SEE: Silver Knight file - Report by Ike Kusisto

U.S. MINE - YAVAPAI Co.

HMC

NOTICE OF THE PRELIMINARY DECISION TO ISSUE AN INDIVIDUAL AQUIFER PROTECTION PERMIT

Pursuant to Arizona Administrative Code (A.A.C.), Title 18, Chapter 9, Article 1, the Director of the Arizona Department of Environmental Quality intends to issue an individual Aquifer Protection Permit (APP) to the following applicant:

Public Notice No. 41-97AZAP
U.S. Navy Mill

On or about
July 9, 1997
Prescott Courier

Christopher Stalnaker
P.O. Box 2135
Prescott, AZ 86302

Aquifer Protection Permit No. P-102582

The U.S. Navy Mill is located five miles east of Skull Valley, on Prescott National Forest Road 196, in Yavapai County, over groundwater of the Bill Williams groundwater basin. The project lies within Township 13 North, Range 3 West, SE¼ of the NW¼ of the NE¼, and SW¼ of the NE¼ of the NE¼ of Section 19 of the Gila and Salt River Baseline and Meridian.

The U.S. Navy Mill intends to operate three tailing impoundments and a custom mill facility. Milling operations will include: loading, crushing, separating, and gravity flotation of custom ore. From the primary crusher, the ore will be conveyed to a secondary crusher and then to a gravity separator.

Specific facilities to be constructed, operated, and closed under the Aquifer Protection Permit will include: three tailing impoundments, the mill facility, and ore stockpile areas.

The design, construction, and operational activities conducted under the Aquifer Protection Permit specifically address these discharging facilities. Specific information regarding design, construction, operation, and closure activities for each facility can be found in Part II of the permit.

The permit and related file are available for public review Monday through Friday, 8:00 a.m. to 5:00 p.m., at the Arizona Department of Environmental Quality, Aquifer Protection Program Section, Mining Unit, 3033 N. Central Avenue, 4th Floor, Phoenix, Arizona. If you would like additional information, please contact Tony Bode at (602) 207-2255, or the Mining Unit secretary at 207-4692.

Persons may submit written comments or request a public hearing in writing, to Tony Bode at ADEQ, Aquifer Protection Program Section, Mining APP Unit, 3033 N. Central Avenue, Phoenix, AZ 85012 within 30 days from the date of this notice. Public hearing requests must include the reason for the request.

ADMMR MINE FIELD VISIT DATA SUMMARY

MINE **US NAVY** AZMILS NUMBER **Yavapai 244A**
COMMODITIES **add** as a commodity **Mill - Gravity**
ENGINEER **Nyal J. Niemuth** DATE **March 31, 1992**
INFORMATION FROM **Chris Stalnaker**

I. MINE U.S. Navy

II. LOCATION Township 13 North, Range 3 West, Section 19, N2
COUNTY Yavapai TOPOGRAPHIC MAP Wilhoit 7.5'
DIRECTIONS Proceed west from Skull Valley as per topo.

III. OWNERSHIP Chris Stalnaker
ADDRESS 309 N. Alarcon, Prescott, AZ 86301 Phone 445-8332
COMPANY NAME CAMMCO - Central Arizona Mining and Milling Co. Inc.
PROPERTY AND HOLDINGS Mill is located on unpatented lode mining claims.

IV. PAST PRODUCTION: Noted

V. CURRENT STATUS Idle - see details of this report.

VI. WORKINGS Mine was not examined. The visit's purpose was to examine the custom milling facility and meet with the operator. Incline shaft was open but portal/collar was sloughing. The portal of the 200' level was reported to be good access to the underground workings.

VII. GEOLOGY Not applicable to this visit. See past data in file.
DEPOSIT TYPE
STRIKE DIP LENGTH WIDTH
HOST ROCKS
ECONOMIC MINERALS

VIII. EQUIPMENT ON SITE Gravity mill, lab, and loader. See X for details.

IX. SAMPLING/DRILLING

X. REMARKS & MILL DESCRIPTION

The mill was reported to be first assembled in 1979 or 1980 by Hazen Research as a test pilot plant. Les Madison had John Meeker set up the mill on this site in 1986. The claims of the U.S. Navy mine were purchased by Mr. Madison in 1989. Chris Stalnaker bought (lease/purchase agreement) the mill and claims in August of 1990.

Since October of 1991 the mill has been closed due to the need to obtain approval of a new mining operating plan from the Forest Service. The Forest Service

required an Aquifer Protection Permit from Arizona Department of Environmental Quality for the tailing ponds. Approval of the plan has now been obtained, but actual issuance awaits posting of the nearly $15,000 bond. Process water is obtained from a pump located in the mine workings.

As presently configured the mill is a small gravity plant with details as follows. Initial feed is to the primary crusher, an Allis Chalmers 30" gyratory crusher. A 5" x 12" jaw is the secondary crusher. Oversize from a double deck screen is fed in open circuit to a chipmunk 4" x 10" crusher. Feed to the ball mill is 100% minus 3/8". The mill is a Gardner Denver 30' x 54", with rubber liners and lifters. With this small mill capacity is necessarily limited in hard ores. The mill can ordinarily process 1500 - 2000 pounds per hour. Discharge, typically minus 60 mesh or coarser, is fed to a 5' x 16' Wilfley table. Middlings from the table are fed to a Dynamic Concentrator for further cleaning. Power is supplied by a 150 kw diesel generator.

The existing tailings pond has an estimated capacity of 75,000 tons and is permitted for a daily discharge rate of 250 tpd. New tailings ponds will be clay lined and compacted to have a permeability of 10^{-6} md. In the future, if the mill were upgraded to include flotation, new permits would have to be obtained and new tailing ponds with synthetic liners would likely be required.

The millsite has a lab building, plumbed, with facilities including an electric furnace and a gas furnace (smelting). Assay beads are taken to outside labs like Iron King for weighing or AA finish. The lab is used for metallurgical control for the mill, not raw ore samples, as it lacks sample preparation equipment (for example, a pulverizer).

A small (~1.5 yard) wheel loader is used to feed the mill and open section of the crushing circuit.

Examples of custom milling schedules and contracts along with metallurgical treatment charts accompany this report.

Telephone
(602) 445-8332

Fax
(602) 778-5148

CAMMCO
Central Arizona Mining & Milling Co., Inc.

309. N Alarcon Street
Prescott, Arizona 86301

ORE RECEIVAL & ROUTING SHEET

Date of delivery Driver Estimated tonnage

CAMMCO designation Mine designation of shipment

Weight Cu/ft Visual description of shipment

Requested grind Actual grind Requested ratio Actual ratio

MILL LOG

	Time in .1's		Feeder setting		From chart			
(1)	_____	(a)%	_____					
(2)	_____	(b)%	_____	2)-1)	_____	x(a)=	_____	(cu/ft)
(3)	_____	(c)%	_____	3)-2)	_____	x(b)=	_____	(cu/ft)
(4)	_____	(d)%	_____	4)-3)	_____	x(c)=	_____	(cu/ft)
(5)	_____	(e)%	_____	5)-4)	_____	x(d)=	_____	(cu/ft)
(6)	_____	(f)%	_____	6)-5)	_____	x(e)=	_____	(cu/ft)
(7)	_____	(g)%	_____	7)-6)	_____	x(f)=	_____	(cu/ft)
(8)	_____	(h)%	_____	8)-7)	_____	x(g)=	_____	(cu/ft)
(9)	_____	(i)%	_____	9)-8)	_____	x(h)=	_____	(cu/ft)
(10)	_____	(j)%	_____	10)-9)	_____	x(i)=	_____	(cu/ft)
							_____	Total

lbs/cu/ft ___ / 2000 = _____ cu/ft/ton

cu/ft/ton ___ / _____ = _____ Total tonnage / total cu/ft

PRODUCT DESCRIPTION

	Width	Description & amount produced
Wilfley cut #1	_____	_____
Wilfley cut #2	_____	_____
Dynamic cut	_____	_____
Dynamic cut	_____	_____

SAMPLE DESCRIPTIONS & #'S

Dry head_____ Wet head_____ Wilfley #1_____ Wilfley #2_____

Wilfley mid_____ Wilfley tail_____ EA tail_____ Dynamic tail_____

Gross tail_____ Other_____

Central Arizona Mining & Milling Co., Inc.

APPLICATION FOR CUSTOM SERVICES

FILE_____

MINE NAME_____

OPERATOR_____

DATE_____

309 North Alarcon ▪ Prescott, Arizona 86302-2248 ▪ 602-445-8332
FAX-778-5148

LIMITATIONS & REQUIREMENTS

CAMMCO REQIRES a complete 'APPLICATION FOR CUSTOM SERVICE' (this package) prior to accepting ore or concentrates.

Regardless of conditions of payment or settlement, CAMMCO REQUIRES a cash payment of $60.00 over and above milling charges per lot milled. This is an assay fee sufficient to cover the cost of four assays on head ore and tailings, to be performed by registered assayer only, without exception.

Required grind: If you are not certain of the liberation point and size of particle you wish to recover, we strongly suggest a screen test be performed on your ore by a competent laboratory prior to attempting a mill test.

Grinding limitations: Final communition to size is by wet ball mill grinding with sand screw type classification, closed circut. Accurate classification is only possible to about 60% - 100 mesh. Most ores DO NOT require this fine a grind, and may slime when overground.

Recovery limitations: CAMMCO'S Dynamic Concentrator is capable of capturing gold particles in the 600 mesh range, if liberated from gangue. Repeated tests show virtually no free gold loss to tailings. The amount of gold that is "too small to catch" won't make or break your mine!

Platinates and 'Phantom' ores: CAMMCO will process any unconventional ore to client specifications within limits of our equipment. CAMMCO requests copies of final metallurgical results on this type ore for our files and to better serve all of our clients.

Confidentiality: What your ore does is your business, we will not release information without client approval.

GENERAL INFORMATION REGARDING PROCESSING OF ORES AND TREATMENT OF CONCENTRATES

The "milling" of ores is comprised of the following processes: crushing, grinding, classification, and recovery. In regard to CAMMCO's facility, recovery is accomplished by differential specific gravity concentration; therefore, a bulky concentrate of the heavier minerals present in the ore is often produced. Cammco provides a highly efficient gravity separation facility which is well suited to the recovery of free gold as well as most minerals of silver, copper, lead, zinc, tungston, etc. Some gold ores will produce a free-milling portion recoverable as a separate product, although usually a bulk concentrate containing important values will also be produced. Most ores will produce a concentrate which may be either reconcentrated or sold directly to a commercial smelter or refiner.

CAMMCO's mill facility is equipped with a Cosmos Industries 6' Dynamic concentrator, which is used as a scavenger in circut behind a conventional Wilfley concentrating table. Generally, concentrates containing free gold may be reconcentrated using the Dynamic concentrator, resulting in a much higher grade concentrate than originally produced from either the Wilfley table or the Dynamic concentrator.

CAMMCO is also equipped to mercury amalgamate these upgraded concentrates and smelt the resultant sponge to Dorre. Additional charges apply.

In the case of ores processed on a custom service basis, the miner or his representative is invited to be present during the milling operation and remove his concentrate from the mill facility at the time payment or settlement is made.

CAMMCO will consider the outright purchase of ore at a per-ton price determined by sampling procedure described in the following section.

INTRODUCTION TO CAMMCO

CAMMCO presently operates a gravity concentration type ore reduction mill located approximately 12 miles West of Prescott, Arizona. CAMMCO is primarily a mine service company and custom mill operator, accepting both base and precious metals ores on either an outright purchase basis, or as a custom service provider. On a limited basis, CAMMCO may provide to operators of properties of merit assistance in the forms of: geological evaluation, engineering, permitting and bonding, metallurgy, equipment and expendables, contract mining, ore hauling, and custom processing.

SAMPLING AND PURCHASING PROCEDURE AND TERMS

Upon arrival at the mill facility, custom ores will be rough-crushed and stockpiled until terms are agreed upon. Samples will be taken during crushing and split between CAMMCO and the miner with a portion retained for future reference. After assays, if purchase terms cannot be agreed upon, the miner has the option of contracting for custom milling at the base price of $72.50 per ton or removing his ore from the mill facility. If the miner chooses to remove his ore, a crushing, sampling, and service charge of $20.00 per ton is levied on the stockpiled material. Ores remaining at the mill facility for 60 days with crushing charges unpaid will be considered abandoned and disposed of.

APPLICATION FOR CUSTOM SERVICES

PROPERTY DATA

CLAIM NAME(S)_____

_____

INITIAL PRODUCTION FROM WHICH CLAIM_____

NAME OF OWNER(S) OF RECORD_____

IS THE PROPERTY UNDER LEASE_____

FEDERAL CLAIM_____ FOREST SERVICE JURISDICTION_____

BLM JURISDICTION_____ PATENTED_____ STATE LEASE_____

AMC LEAD SERIAL #_____ LOCATION DATE_____

LOCATED IN SECTION_____ TOWNSHIP_____ RANGE_____

DESCRIBE ACCESS IF YOU REQUIRE ORE HAULING_____

_____

_____

MINERAL DATA

PRIMARY VALUE METAL_____

OTHERS OF ECONOMIC INTEREST_____

TYPE DEPOSIT_____

TONNAGE OF FIRST SHIPMENT_____

ESTIMATED MONTHLY TONNAGE_____ THIS TIME NEXT YEAR_____

DO YOU HAVE FLOWSHEETS OR METALLURGICAL REPORTS_____

MINERAL FORMS OF METALLICS PRESENT_____

_____

TERMS REQUESTED

CONTRACT FOR CUSTOM SERVICES AT THE BASE RATE OF $ 72.50 PER TON_____

SELL ORE TO CAMMCO DIRECTLY_____

DO YOU REQUIRE ORE HAULING_____

IF SO, CAN YOU LOAD TRUCKS ON SITE_____

WILL YOU PROVIDE A WEIGHT SLIP WITH YOUR SHIPMENT_____

WHEN DO YOU ANTICIPATE YOUR INITIAL SHIPMENT_____

COMPLETE THIS SECTION ONLY IF REQUESTING

CREDIT ARRANGEMENTS OR FINANCIAL ASSISTANCE

OPERATOR INFORMATION

NAME OF MINE OPERATOR_____

AGE_____

DESCRIBE YOUR EXPERIENCE IN MINING AND RELATED FIELDS____

_____

_____

_____

REFERENCES_____

_____

MINE INFORMATION

ARE RECLAIMATION BONDS NECESSARY_____ IN PLACE_____

AMOUNT_____

MINING EQUIPMENT AVAILABLE_____

_____

EQUIPMENT STILL NEEDED_____

_____

EXPENDABLES AVAILABLE_____

_____

EXPENDABLES STILL NEEDED_____

_____

SERVICES NEEDED_____

_____

WOULD YOU SECURE CAMMCO'S INVESTMENT WITH YOUR EQUIPMENT

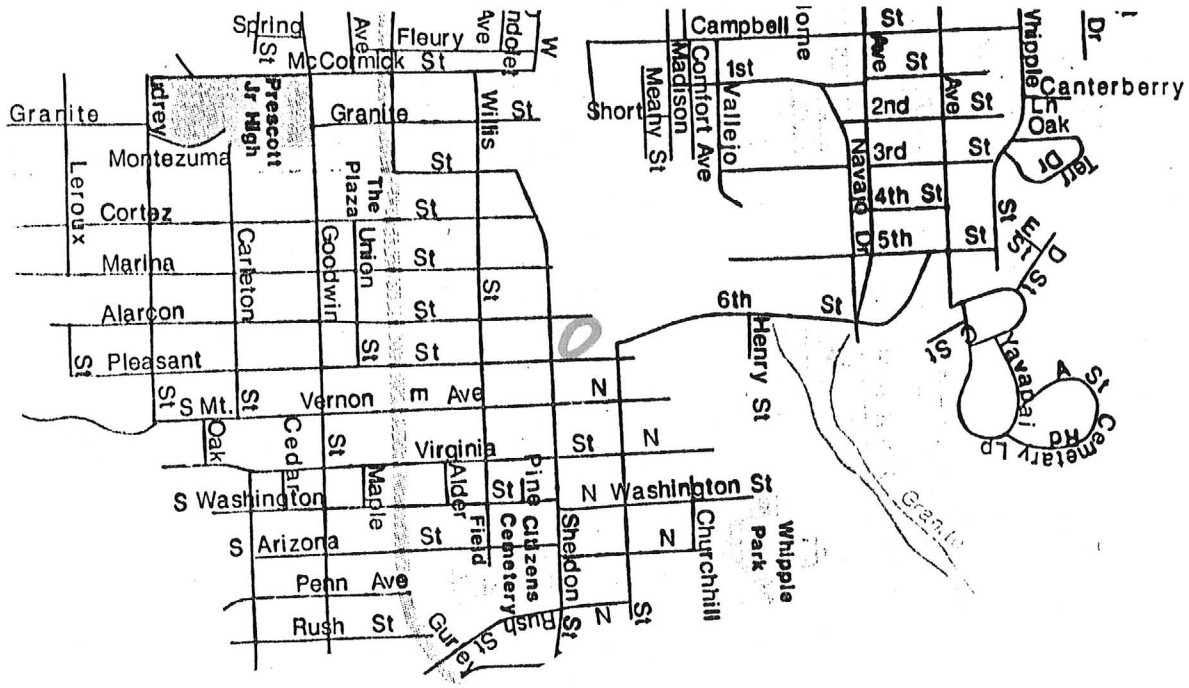
_____

MINING OR REAL PROPERTY _____

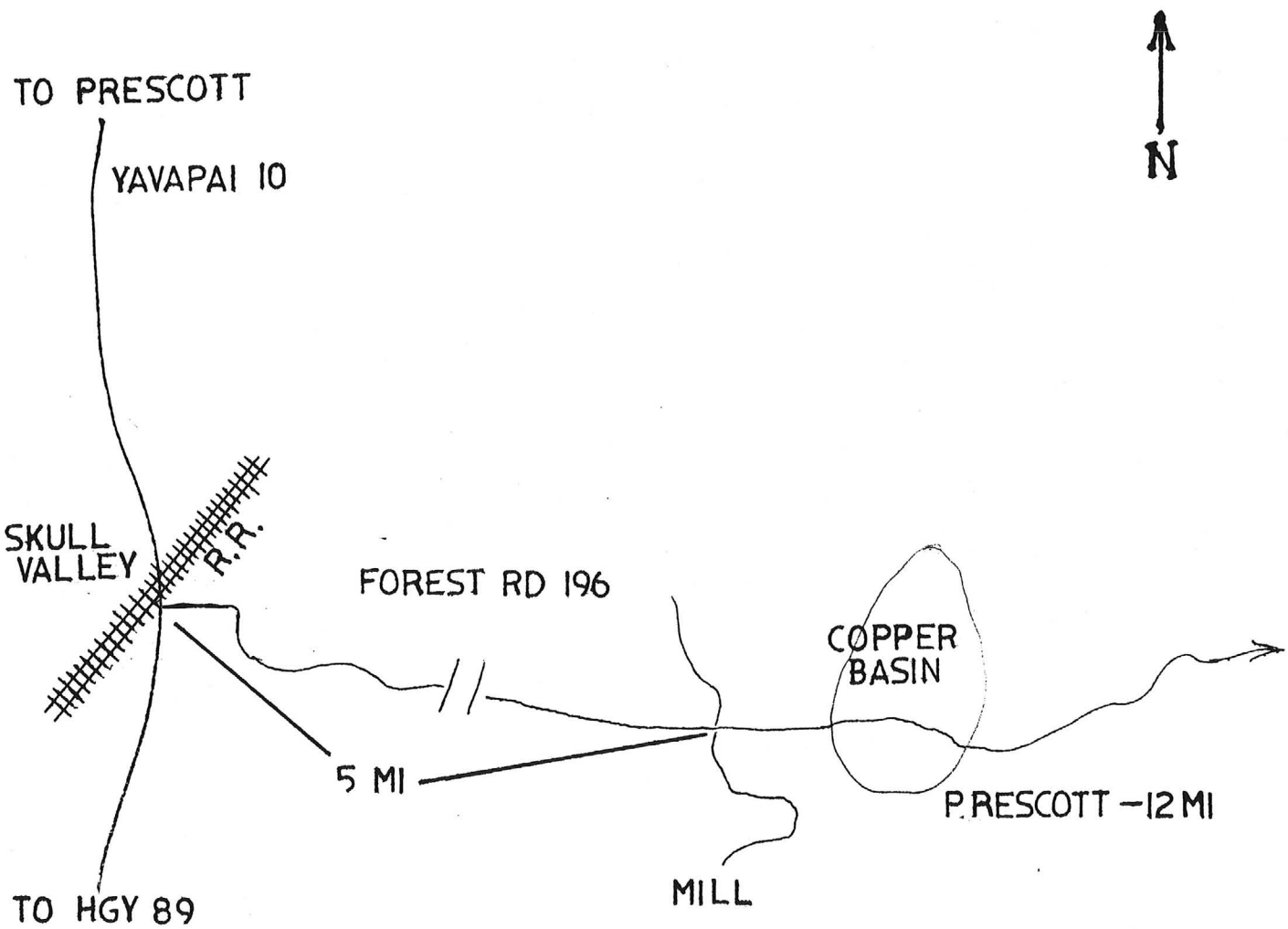
VEHICLE _____

OTHER _____

OFFICE LOCATION
309 N. ALARCON St.



MILL LOCATION
(PLEASE CALL FOR APPOINTMENT)



AGREEMENT OF INTENT

Having read and completed the foregoing application for Custom Services, I intend to produce shipping ore as set forth under the terms and conditions set forth herein by the CENTRAL ARIZONA MINING & MILLING COMPANY.

_____ Initial shipment to be custom milled at $72.50 per ton, with no deduction for moisture content. An assay surcharge of $60.00 will be paid at the time the ore is delivered to CAMMCO'S facility.

_____ I wish to sell ore to CAMMCO directly.

_____

OPERATOR

_____

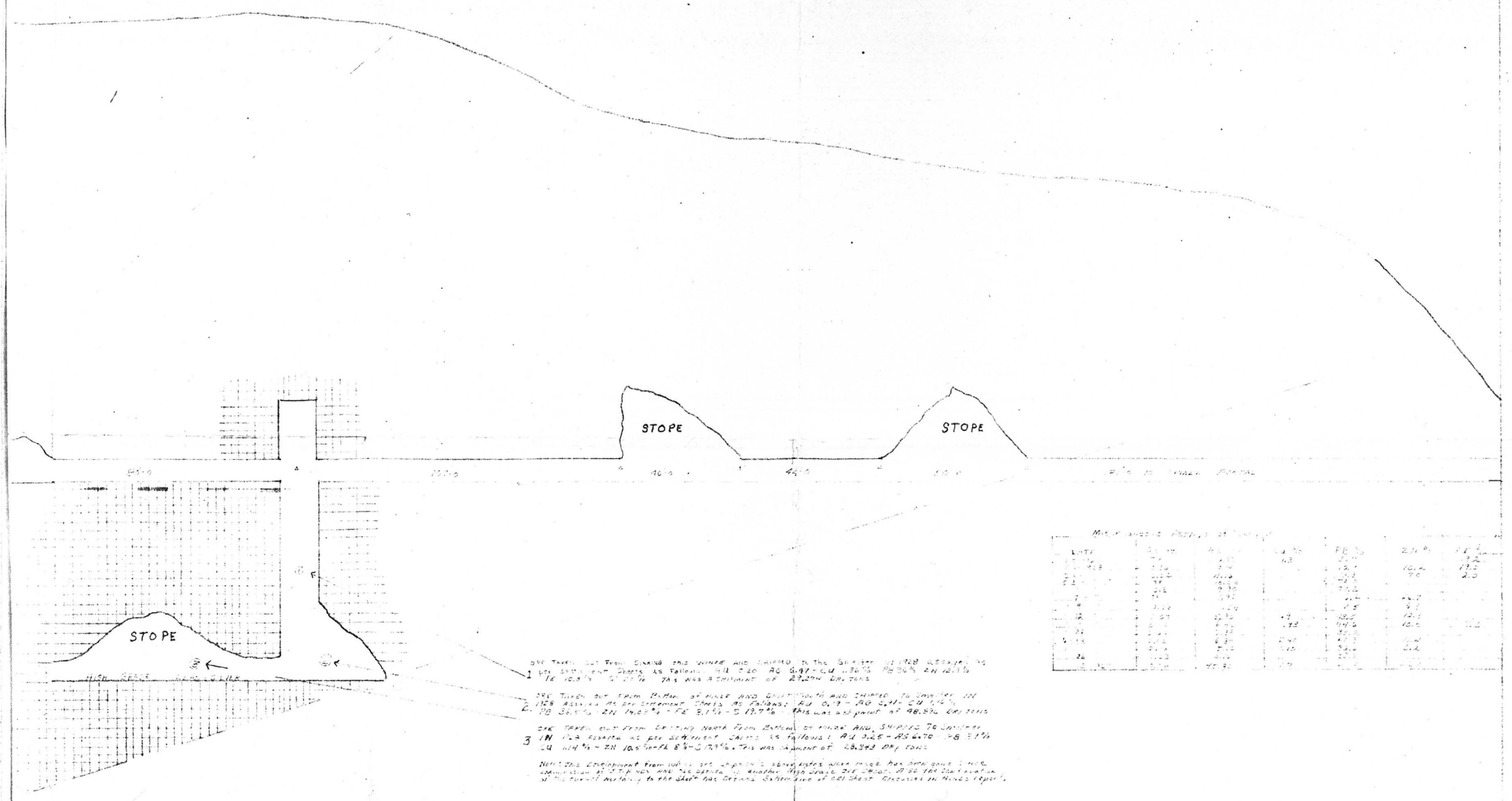
ADDRESS

_____

CITY, STATE, ZIP

_____

TELEPHONE



Miscellaneous Assays of [illegible]

DATE	[illegible]	[illegible]	Cu %	PB %	ZN %	FE %
[illegible]	[illegible]	[illegible]	1.3	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]		[illegible]	10.2	19.5
[illegible]	[illegible]	11.16		[illegible]	7.0	2.0
[illegible]	[illegible]	[illegible]		[illegible]		
[illegible]	[illegible]	[illegible]		[illegible]		
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	
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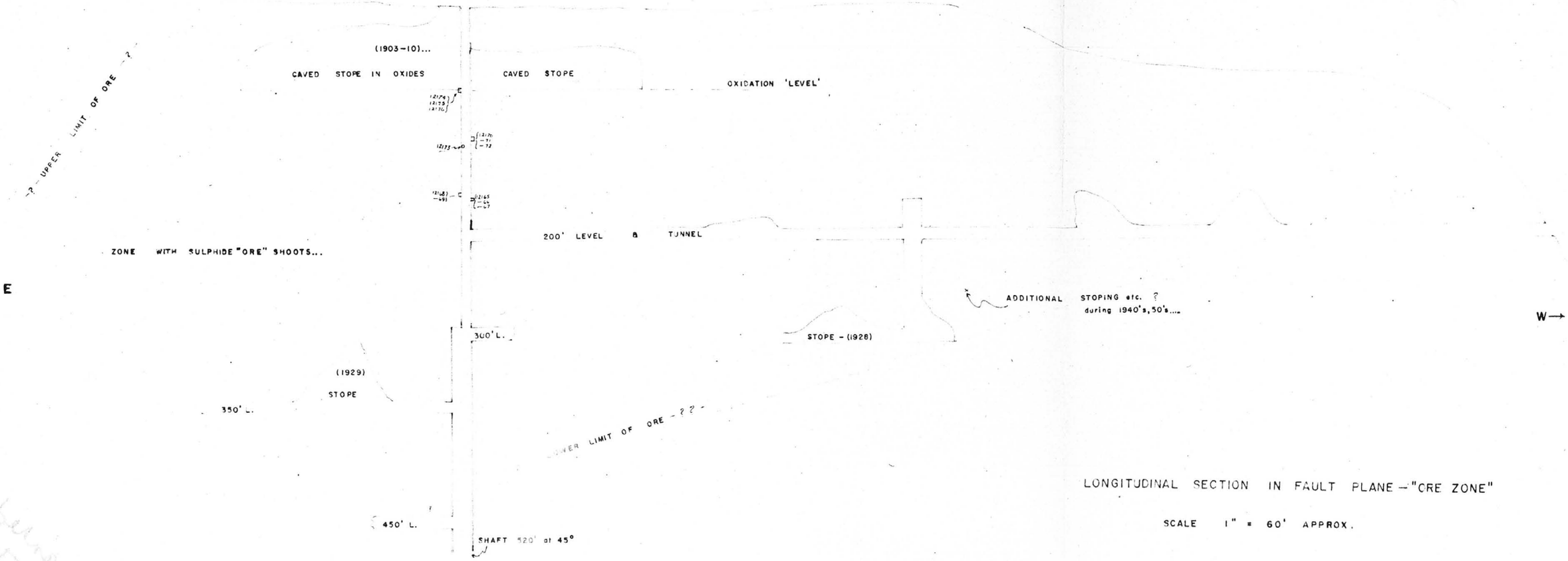
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	

1 ORE TAKEN OUT FROM SINKING THIS WINZE AND SHIPPED TO THE SMELTER IN 1928 ASSAYED AS PER SETTLEMENT SHEETS AS FOLLOWS: AU 0.20 AG 6.47 - CU 1.36% PB 36% ZN 12.1% FE 10.3% - S 21% THIS WAS A SHIPMENT OF 29.274 DRY TONS

2. ORE TAKEN OUT FROM BOTTOM OF WINZE AND DRIFT SOUTH AND SHIPPED TO SMELTER IN 1928 ASSAYED AS PER SETTLEMENT SHEETS AS FOLLOWS: AU 0.19 - AG 5.91 - CU 1.16% PB 36.5% - ZN 14.03% - FE 8.1% - S 19.7% - THIS WAS A SHIPMENT OF 48.896 DRY TONS

3 ORE TAKEN OUT FROM DRIFTING NORTH FROM BOTTOM OF WINZE AND SHIPPED TO SMELTER IN 1928 ASSAYED AS PER SETTLEMENT SHEETS AS FOLLOWS: AU 0.25 - AG 6.70 - PB 37% CU 1.14% - ZN 10.5% - FE 8% - S 17.9% - THIS WAS A SHIPMENT OF 28.343 DRY TONS

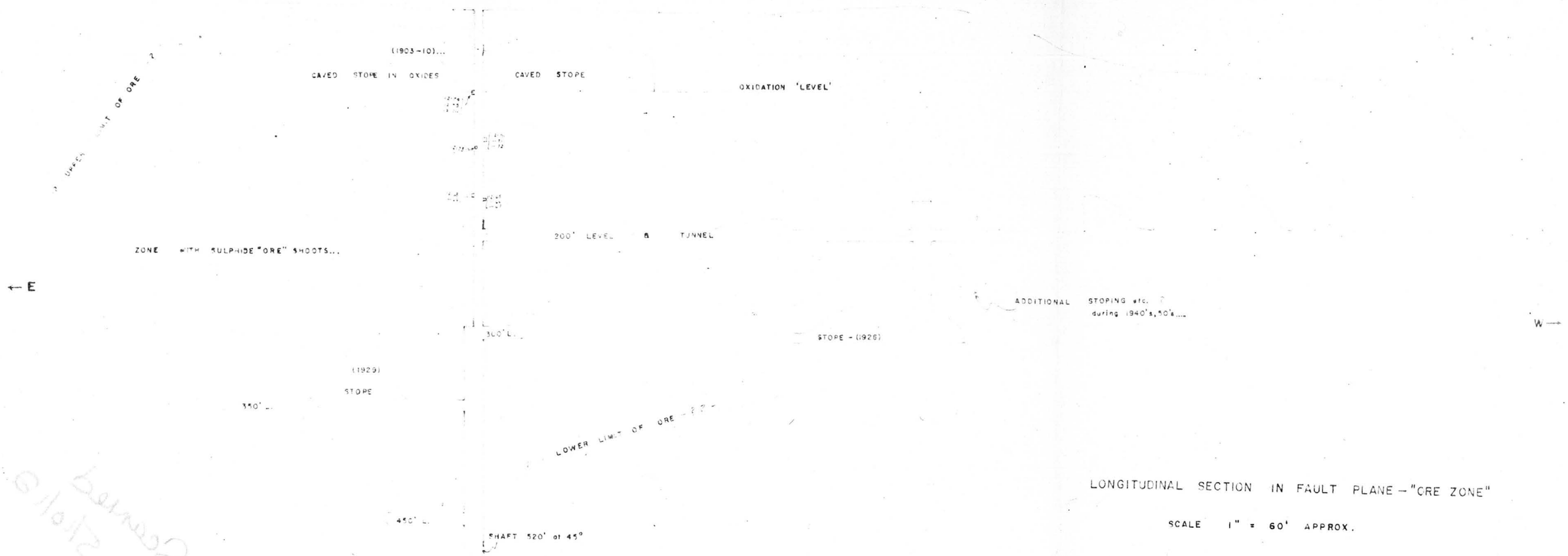
NOTE: THIS DEVELOPMENT FROM WHICH ORE SHIPMENTS ABOVE LISTED WERE MADE HAS BEEN GONE SINCE COMMISSION OF STOPPINGS AND ORE OPENED IN ANOTHER HIGH GRADE ORE SHOOT. ALSO THE CONTINUATION OF THE TUNNEL NORTHING TO THE SHAFT HAS BEEN BETWEEN LINE OF ORE SHOOT DISCUSSED IN MINES REPORT.



LONGITUDINAL SECTION IN FAULT PLANE - "CRE ZONE"

SCALE 1" = 60' APPROX.

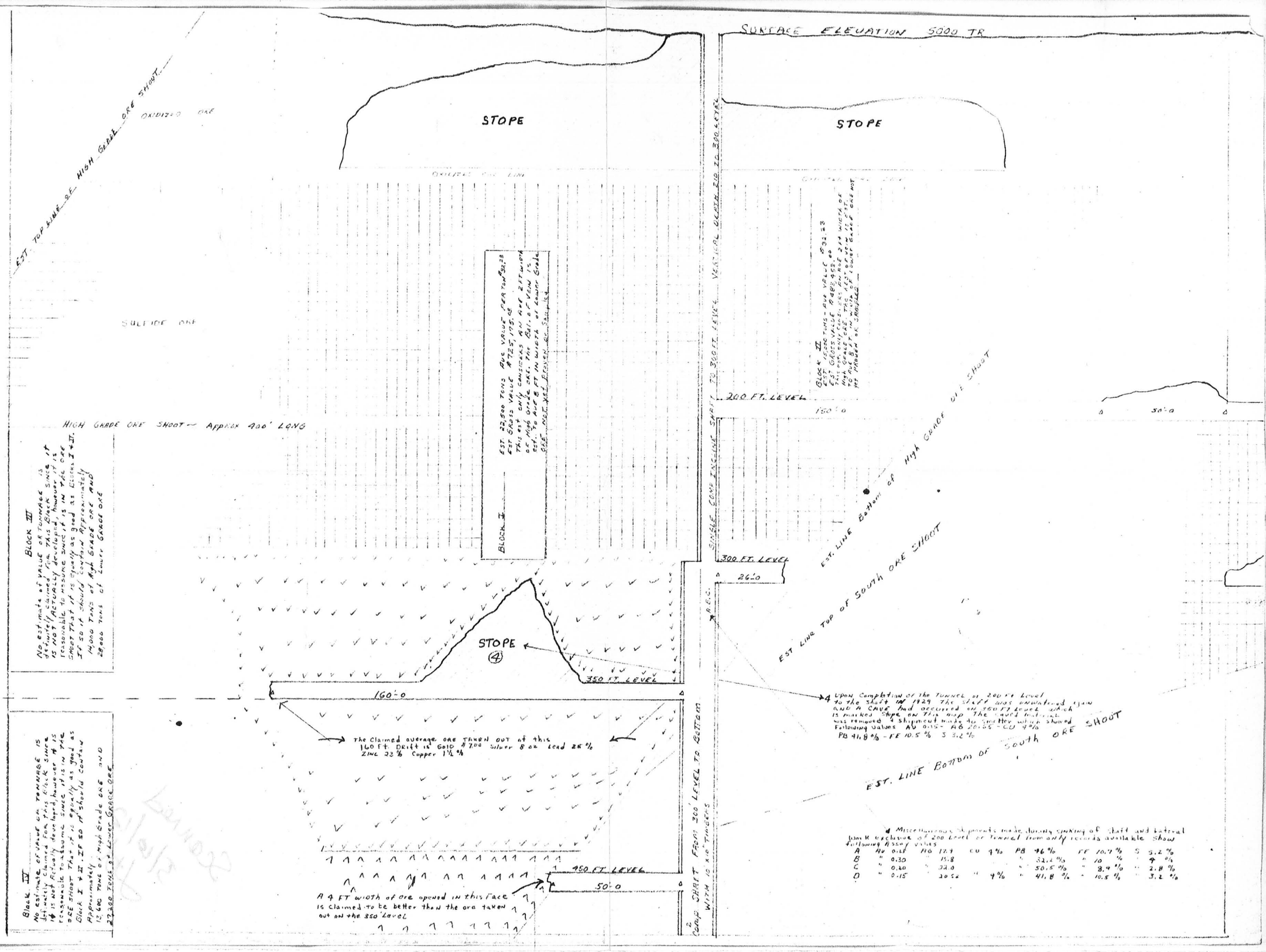
U. S. NAVY

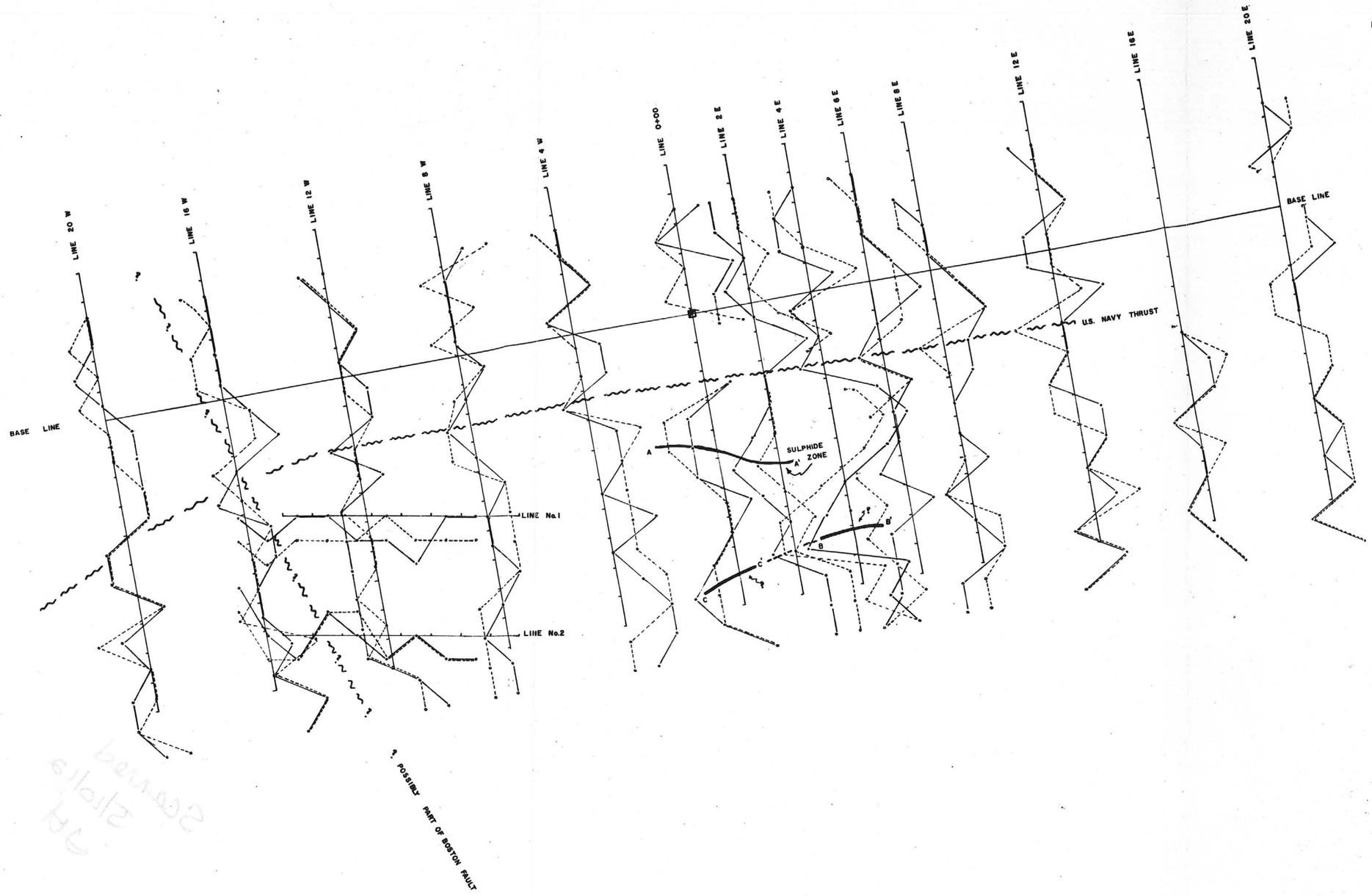


LONGITUDINAL SECTION IN FAULT PLANE – "CRE ZONE"

SCALE 1" = 60' APPROX.

U.S. NAVY


SURFACE ELEVATION 5000 FT
STOPE
STOPE
EST. TOP LINE SE HIGH GRADE ORE SHOOT
OXIDIZED ORE
SULFIDE ORE
HIGH GRADE ORE SHOOT — APPROX 400' LONG
BLOCK II
EST. 22,500 TONS AVG VALUE PER TON $6.23
EST GROSS VALUE $135,175.00
THIS EST ONLY CONSIDERS AN AVE 25 FT WIDTH OF HIGH GRADE ORE FOR BAL. OF VEIN IS EST. TO AVE 8 FT IN WIDTH AT LOWER GRADE
SEE PART MAP FURTHER ON SHEET
BLOCK I
BLOCK III
NO ESTIMATE OF VALUE OR TONNAGE IS DEFINITELY CLAIMED FOR THIS BLOCK SINCE IT IS NOT ACTUALLY DEVELOPED, HOWEVER IT IS REASONABLE TO ASSUME SINCE IT IS IN THE SAME SHOOT THAT IT IS EQUALLY AS GOOD AS BLOCK I & II. IF SO IT SHOULD CONTAIN APPROXIMATELY
14,000 TONS OF HIGH GRADE ORE AND
28,000 TONS OF LOWER GRADE ORE
BLOCK IV
EST TONNAGE — ORE VALUE $31.23
EST GROSS VALUE AS @ $58.00 PER TON
THIS FOR ONLY CONSIDERS AN AVE 2FT WIDTH OF HIGH GRADE ORE FOR BAL. OF VEIN IS CONSIDERABLE LOWER GRADE ORE
TOTAL TONNAGE ESTIMATED AT 5000 TONS
NOT PROVEN OR SAMPLED
200 FT. LEVEL
150'-0
50'-0
SINGLE COMPARTMENT SHAFT TO 350 FT. LEVEL — VERTICAL DEPTH TO 390 LEVEL
300 FT. LEVEL
26'-0
EST. LINE Bottom of High Grade ORE SHOOT
EST LINE TOP OF SOUTH ORE SHOOT
STOPE (4)
350 FT. LEVEL
160'-0
A.E.C.
The Claimed average ore TAKEN OUT of this 160 Ft. Drift is Gold $7.00 Silver 8 oz Lead 2K %
Zinc 23 % Copper 1½ %
4 Upon Completion of the TUNNEL at 200 FT Level To the shaft in 1929 The shaft was inundated again and A CAVE had occurred on 150 FT Level which is marked Stope on this map The caved material was removed & shipment made to smelter with as shown Following values AV 0.15 - AG 20.05 - CU 9 % PB 41.8 % - FE 10.5 % S 3.2 %
EST. LINE Bottom of South ORE SHOOT
450 FT. LEVEL
50'-0
A 4 FT width of ore opened in this face is claimed to be better than the ore taken out on the 350 Level
2 Comp SHAFT FROM 300 LEVEL TO BOTTOM WITH 10 x 10 TIMBERS
4 Miscellaneous shipments made during sinking of shaft and lateral from K exclusive of 200 Level or Tunnel from only records available Show following Assay values
A Au 0.15 Ag 12.4 Cu 9 % Pb 46 % Fe 10.7 % S 3.2 %
B " 0.30 " 15.8 " " " 32.2 % " 10 " 4 %
C " 0.20 " 22.0 " " " 50.5 % " 8.4 % " 2.8 %
D " 0.15 " 20.5 " 9 % " 41.8 % " 10.5 % " 3.2 %
Block III
No estimate of value or tonnage is definitely claimed for this Block since it is not Actually developed, however it is reasonable to assume since it is in the SAME SHOOT That it is equally as good as Block I & II. IF SO it should contain Approximately
12,600 Tons of High Grade ore and
22,500 Tons of Lower Grade ore.



DATA: SURVEY USED A CRONE J.E.M

PROFILE SCALE

CONDUCTIVITY ANALYSIS:

RATIO OF MAXIMUM RESULTS

FOR LINES 0+00, 2E, 4E

ZONE — APPROXIMATE

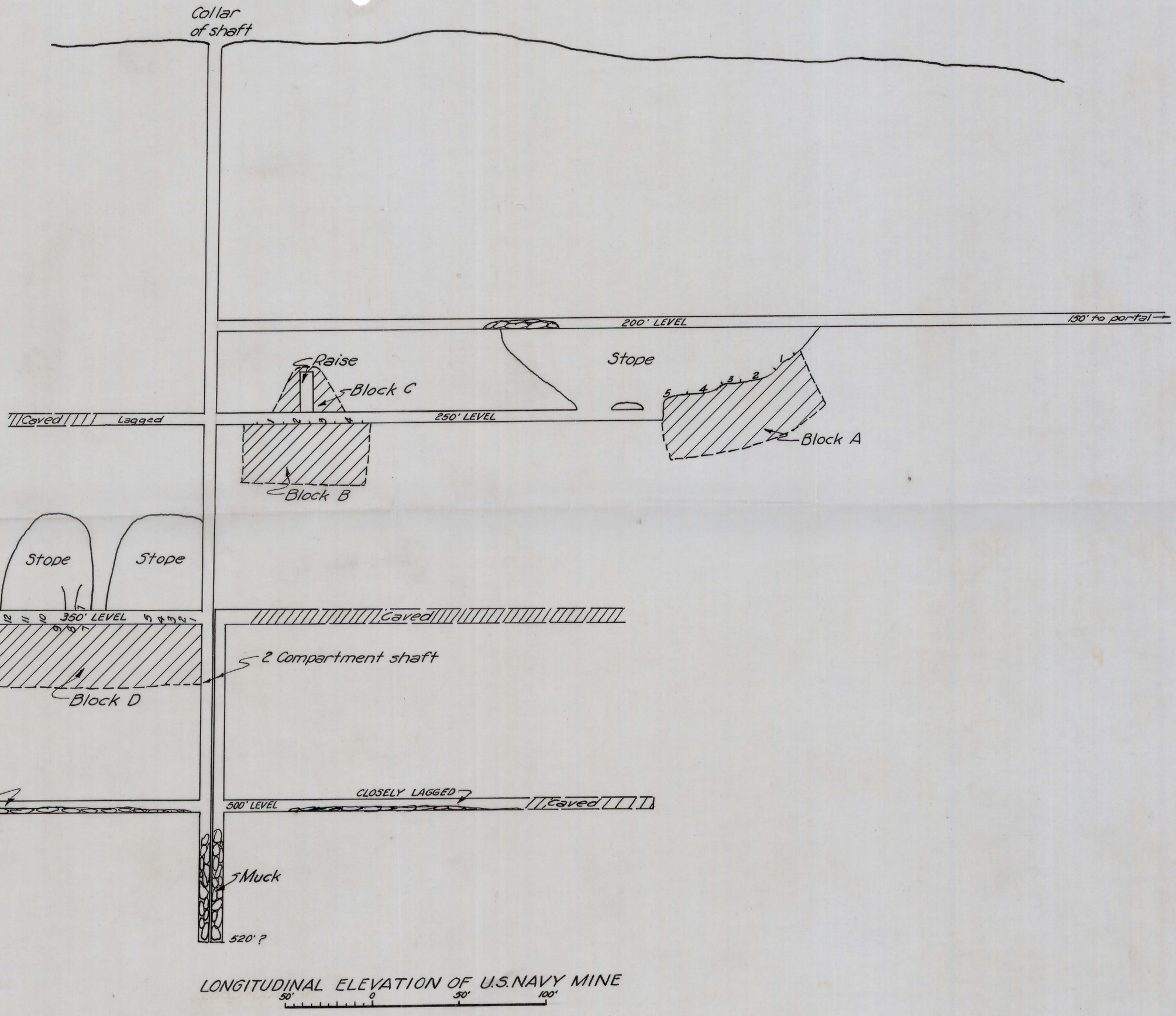
AND TWO ZONES

UNESTABLISHED CAUSE

U.S. (NAVY) MINE

JOS.- August 1968.

Pb-zn



LONGITUDINAL ELEVATION OF U.S.NAVY MINE

15003

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

VERBAL INFORMATION SUMMARY

1. Mine file: U. S. MINE

2. Mine name if different from above:

3. County: Yavapai

4. Information from: Leslie Madison

   Company: Madico Inc.

   Address: 26639 N. Black Canyon Hwy.
   P.O. Box 1146, Black Canyon Stage
   Phoenix, AZ 85029

   Phone: 869-6700

5. Summary of information received, comments, etc.:

Mr. Madison reports he now owns the U.S. Mine in the Copper Basin District, Yavapai County. He has assembled a 15/ton portable mill on the property. With it he has recently run a small lot of ore from the nearby Price-White Mine, about a mile to the northeast. He is presently pumping out the U.S. Mine and hopes to reopen the long tunnel which interconnects the main workings. If found, some lots of ore will be mined and milled. Ultimately, Mr. Madison hopes to sell the property to Phelps Dodge to become part of their Copper Basin holdings.

Date: February 8, 1989

Nyal J. Niemuth, Mining Engineer

MINE (#) YAVAPAI

R OFFICE USE ONLY
START-UP NUMBER 84322094
STATE NUMBER 10176900
MSHA NUMBER _____

NOTICE TO ARIZONA STATE MINE INSPECTOR

In compliance with Arizona Revised Statute Section 27-303, we are submitting this written notice to the Arizona State Mine Inspector of our intent to start ✓ stop ___ move ___ (please check one) a mining operation.

If this is a move, please show last location: _____
If you have not operated a mine previously in Arizona, please check here: ___ If you want the Education & Training Division to assist with your mine safety training, please check here: ✓ If this operation will use Cyanide for leaching, please check here: ___

COMPANY NAME: CIRCLE R MINING & EXPLORATION, INC.

DIVISION: _____

MINE OR PLANT NAME: FINCH CANYON MINE TELEPHONE: 776-0652

CHIEF OFFICER: LARRY RADER

COMPANY ADDRESS: LOT 59 PONDEROSA PARK

CITY: PRESCOTT STATE: AZ ZIP CODE: 86303

MINE OR PLANT LOCATION: (Include county and nearest town, as well as directions for locating property by vehicle). YAVAPAI Co. SKULL VALLEY, AZ NAVY MINE & MILL SITE 4½ Mi E. of SKULL VALLEY, AZ on the OLD COPPER BASIN ROAD.

TYPE OF OPERATION: MINING & MILLING PRINCIPAL PRODUCT: PRECIOUS METALS

STARTING DATE: 4-18-88 CLOSING DATE: _____ DURATION: _____

PERSON COMPLETING NOTICE: LARRY RADER TITLE: pres

DATE NOTICE MAILED TO STATE MINE INSPECTOR: _____

FORM 101-106 REV. 10/85

LANDS INVOLVED

T. 13 N., R. 3 W., G&SRBM, Yavapai County, Arizona. Involving the U. S. Amended, U. S. Nos. 1, 2, 3, 4, Geraldine, and Galena King lode mining claims as shown on the attached plat identified as Exhibit No. 1. These claims, involving a total of approximately 140 acres of National Forest Lands, are locally known as the U. S. Navy Mine and are situated in the following sections:

S½ Section 17
SW¼ Section 18
N½ Section 19
N½ Section 20

RECORD DATA

On December 5, 1960, a verified statement was filed with the Bureau of Land Management in Phoenix, Arizona, by T. W. Alexander, whose address is Box 27, Humboldt, Arizona, for himself and on behalf of Ida L. Hobbs, whose address is 2325 Clark Avenue, Venice, California. This statement covering the above claims was filed pursuant to a "Notice to Mining Claimants" in accordance with Public Law 167, published in the Prescott Weekly Courier, Prescott, Arizona, which allowed the filing of verified statements through December 7, 1959. However, Mr. Alexander and Mrs. Hobbs were not notified until December 1, 1960. The Land Office, Phoenix, Arizona, was requested to accept their statement as being timely filed.

Claim	Locator	Date	Recorded Yavapai Co., Arizona Book of Mines	Page	Date
U. S. Amended	A. L. Hammond	9-25-34	130	255	9-27-34
U. S. No. 1	" " "	7-1-34	141	405	7-2-34
U. S. No. 2	" " "	7-1-34	141	406	7-2-34
U. S. No. 3	" " "	7-1-34	141	407	7-2-34
U. S. No. 4	" " "	7-1-34	141	408	7-2-34
Geraldine	William F. Burns & Sidney Birch	7-1-21	119	147	9-26-21
Galena King	K. J. Burns & Ida L. Hobbs	7-2-28	132	65	8-27-28

There is a Mining Deed, dated October 11, 1934, and recorded in Book of Deeds 152, page 270, Yavapai County, Arizona, on October 11, 1934, from A. L. Hammond to W. F. Burns and Joseph W. Hobbs.

On May 4, 1960, Katherine J. Burns quitclaimed her interest in the above claims (her interest being an undivided one-half interest) to Betty Rosen. This is recorded on May 5, 1960, in Book 185 O.R., page 103, Yavapai County, Arizona.

On August 18, 1960, Betty Rosen quitclaimed her interest in the above claims to T. W. Alexander. This is recorded in Book O.R. 197, page 392, Yavapai County, Arizona, on September 12, 1960.

On November 20, 1961, Ida L. Hobbs quitclaimed her interest in the above claims to T. W. Alexander. This is recorded in Book O.R. 240, page 102, Yavapai County, Arizona. Mr. T. W. Alexander is now the sole owner of the above claims.

The records of Yavapai County, Arizona, were checked to verify that the data on the verified statement were correct with the exception that the U. S. Amended supercedes the U. S. lode mining claim.

LOCATION, ACCESS AND IDENTIFICATION

The claims are in the Copper Basin Mining District, Prescott Ranger District, Prescott National Forest and are 9 miles SW of the Yavapai County Courthouse, Prescott, Arizona.

The claims are readily accessible as the Copper Basin road crosses over them.

Mr. T. W. Alexander accompanied me on the examination and pointed out the discovery holes.

Mr. Alexander did not know where the corner monuments were. I advised him that he should make an effort and locate them or replace them if destroyed. A search of the area disclosed a few of the corner monuments and Exhibit No. 1 shows the claims in their proper location which does not interfere with any other claims in the area.

TOPOGRAPHY AND VEGETATION

The topography is mountainous. The elevation of the area is at an approximate 5300 feet.

The soil is thin and rocky but supports a good cover of buckbrush, manzanita and a very few pinon pine trees. Very little grass was observed. The area is not suitable for timber or recreation purposes.

No springs or permanent streams were observed on the claims. The average annual rainfall is approximately 14 inches.

GEOLOGY AND MINERALIZATION

Copper Basin has been the scene of considerable mining activity in the past. Copper, lead, zinc and gold have been produced from a number of small mines in the area. Phelps Dodge is now in the exploration phase of their patented claims which lie just to the east and north of the U. S. claims. Phelps Dodge last operated in the area in 1958 and did produce some copper. The U. S. claims were last operated in 1952.

The mineralization on the U. S. group of claims occurs in a quartz diorite host and is concentrated in a 4 to 6 foot vein striking approximately N 80°E and dipping 30° to 45° to the SE. The vein material is composed of

quartz, galena, sphalerite and some copper was observed on the Geraldine. The vein has been cut by two rhyolite dikes at right angles to the vein.

The vein was not readily accessible for examination as the 30° inclined shaft has caved at the portal and the adit has caved somewhat. The winze leading from the adit to the vein or stopes was filled with water and would require some time to pump out. Consequently, this report is based to a large extent on the attached map of the underground workings, Exhibits Nos. 2-1 and 2-2, and on the observance of several ore piles near the shaft and adit.

DEVELOPMENT WORK AND SAMPLING

The development work on the claims consists of a 530 foot 30° inclined shaft, a 640 foot long adit, several stoping areas, two vertical shafts totaling 120 feet, a 40 foot winze, and several open cuts along the vein.

I did not take any samples for the reason that the vein was observed only on the surface but did contain galena and sphalerite. The ore piles near the shaft and adit also contained these minerals.

The following record of shipments from the Navy Mine was taken from the Minerals Yearbook for the years indicated.

Year	Pace	Tons Shipped
1939	227	1844
1948	1415	162
1949	1392	89
1950	1410	30
1951	1430	56
1952	124	51

Mr. T. W. Alexander has drilled two diamond drill holes on the property as of the writing of this report and has several more contemplated.

The attached exhibits, Exhibit Nos. 2-1 and 2-2, show the underground workings and assays run on this property by the U. S. Bureau of Mines in 1943.

CONCLUSIONS AND RECOMMENDATIONS

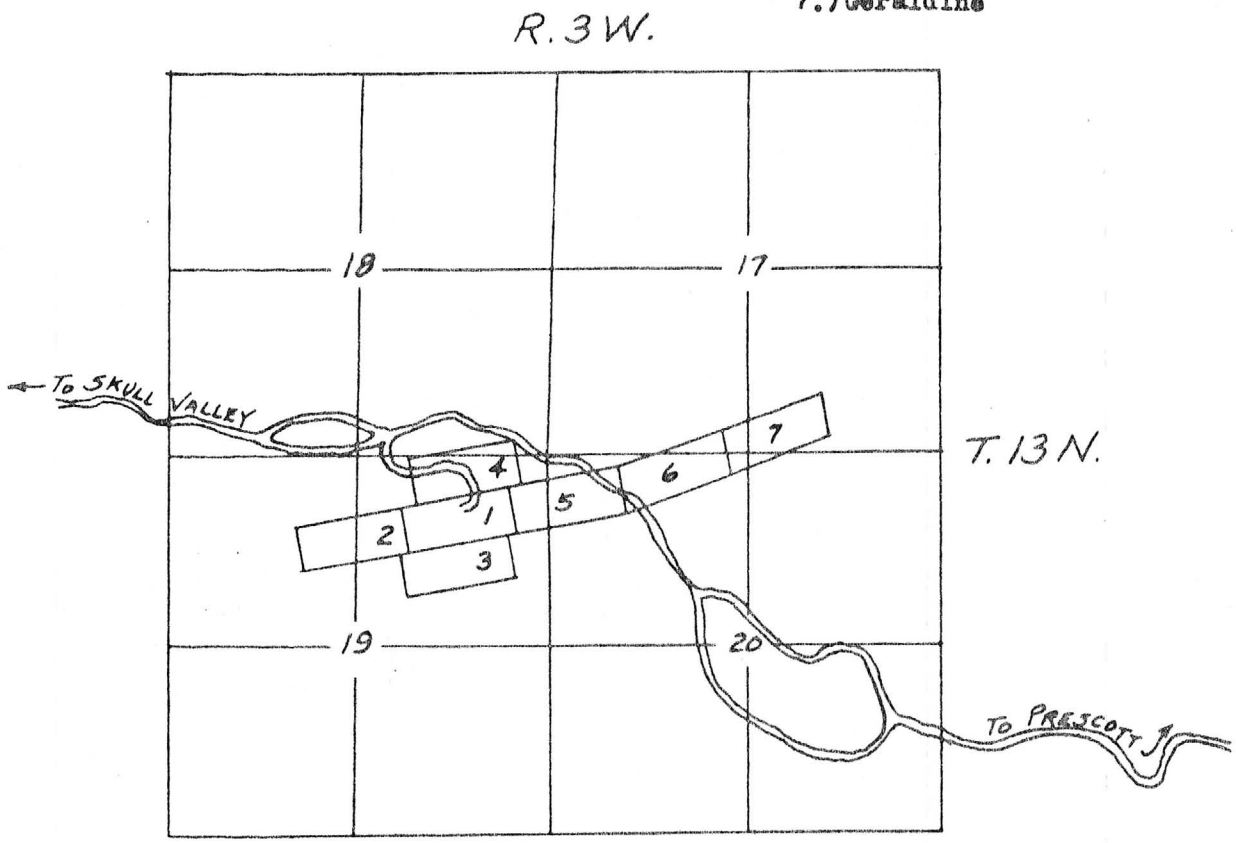
After a careful examination of the claims, it is my opinion that there is no question as to the validity and effectiveness of the claimant's asserted surface rights and that the United States has no basis for further asserting any rights to manage the vegetative surface resources and other surface resources on the claims.

It is, therefore, recommended that an appropriate stipulation be filed in the Land Office, Bureau of Land Management, Phoenix, Arizona, wherein it is stipulated that the asserted surface rights of the claimants are unaffected by the "Notice to Mining Claimants" in the Crown King Area.

Donald J. Alexander
Mining Engineer

U-Adjustments-Prescott
Surface Rights
Crown King Area 3SR-91, AR-021164-R-8

1.) U. S. Amended
2.) U. S. No. 1
3.) U. S. No. 3
4.) U. S. No. 4
5.) U. S. No. 2
6.) Galena King
7.) Geraldine



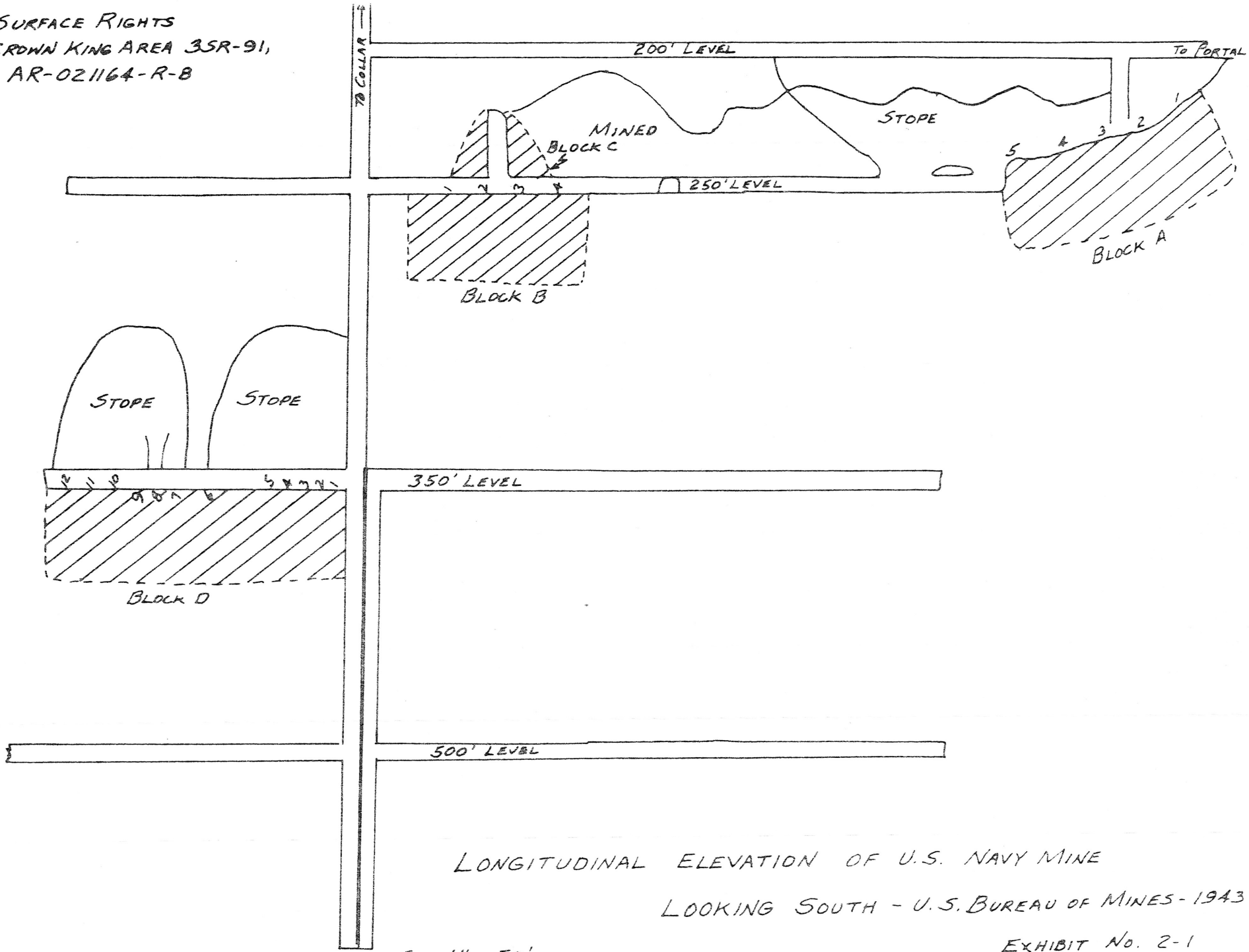
PLAT
Showing the location of U. S. Amended, U. S. Nos. 1, 2, 3, 4, Geraldine and Galena King lode mining claims Sections 17, 18, 19 and 20, T. 13 N., R. 3 W., G&SRBM, Yavapai County, Arizona

Scale 2" = 1 Mile

D. J. Alexander
Exhibit No. 1

May, 1962

SURFACE RIGHTS
CROWN KING AREA 3SR-91,
AR-021164-R-B



LONGITUDINAL ELEVATION OF U.S. NAVY MINE

LOOKING SOUTH - U.S. BUREAU OF MINES - 1943

EXHIBIT No. 2-1

SC. 1" = 50'

U-Adjustments-Prescott
Surface Rights
Crown King Area 3SR-91,
AR-021164-R-8

U. S. Navy Mine

Yavapai County, Arizona

aple No.	Description	Width Inches	Percent Lead	Percent Zinc
A	West end of "A" stope-25 feet above 250' level	30	36.6	10.5
A	Bottom of "A" stope-15 feet east of 1A and 10 feet lower	39	13.9	12.1
A	Bottom of "A" stope-20 feet east of 2A	44	13.1	11.3
A	Bottom of "A" stope-10 feet east of 3A	18	8.5	14.1
A	Bottom of "A" stope-20 feet east of 4A	18	8.0	23.6
B	Bottom of 250 level-20 feet west of incline	14	4.9	22.4
B	250 foot level-15 foot west of 1B	12	21.0	22.9
B	250 foot level-15 feet west of 2B	8	6.5	12.4
B	250 foot level-15 feet west of 3B	24	10.3	8.3
C	Raise above 250 foot level-40 feet west of incline	16	17.5	10.5
D	350 foot level-10 feet east of incline, bottom of drift	63	4.5	5.0
2D	350 foot level-10 feet east of 1D	24	2.9	3.2
3D	350 foot level-10 feet east of 2D	30	3.6	4.1
4D	350 foot level-10 feet east of 3D	24	9.0	4.3
5D	350 foot level-10 feet east of 4D	14	6.9	4.7
6D	350 foot level-10 feet east of 5D	8	4.1	12.6
7D	350 foot level-10 feet east of 6D	22	3.4	20.4
8D	350 foot level-10 feet east of 7D	14	3.9	19.3
9D	350 foot level-10 feet east of 8D	54	4.3	12.1
10D	350 foot level- 10 feet east of 9D	50	2.0	6.1
11D	350 foot level- 10 feet east of 10D	36	5.9	7.6

Exhibit No. 2-2

Intra-Company Correspondence

SHATTUCK DENN MINING CORPORATION

and

SUBSIDIARIES

Humboldt Office

Date August 10, 1966

TO: C. R. Sundeen

FROM: J. Olaf Sund

SUBJECT: PROGRESS REPORT
Re: ORE POTENTIAL AT U.S. (NAVY) MINE

FORWARD:

Progress towards opening the main workings of the old U.S. (Navy) Mine is now sufficiently advanced that observations can be made regarding the character and behavior of the ore shoots.

INTRODUCTION:

Briefly, the following is the geological basis for embarking on this exploration venture. Old plans and sections from early mining and sections from the U.S. Bureau of Mines during their investigation in 1943 indicated that actual mining was mainly above the 250 foot level with only limited stoping on the 350 foot level. No mining was indicated on the 450 foot level.

Old statements of ore settlements from past production as well as visual examinations and check sampling above the 200 foot level all indicated that some ore shoots were of relatively high grade lead and zinc.

Examinations in the upper levels also confirmed that the ore is included within a fault zone that is consistently some four feet wide and has very solid granite walls. Within this zone are fault gouge and brecciated parts that are mineralized with interbands and mixtures of coarse galena and sphalerite. Quartz and carbonate gangue accompany the mineralization. The fact that this fault was part of a major thrust zone, namely the so-called Navy Thrust, and that it is at this point cutting a granite mass, it was assumed that the fault zone should persist to greater depths. The fact that the fault zone should persist to depth it was therefore questioned if the ore shoots too should continue down the fault.

The above consideration was valid if one considers the ore to be only within and related to the east and west trending Navy Thrust fault, or if one considers the ore in the Navy fault to be genetically related to the north and south trending Boston cross fault that projects to the approximate vicinity of the mine.

PROGRESS TO DATE:

The old mine workings have been pumped and mucked out with the exception of the drift on the 350 foot level west of the shaft and some of the very upper levels.

ORE RESERVES:

EXPECTED: It was previously confirmed that the ore above the 250 foot level has for all practical purposes been removed.

Therefore the 350 and 550 foot levels were to be the critical ore sections from

which together should have contained some 7,000 to 10,000 tons of rock.

PROBABLE:

450 Foot Level: The fault zone on this lower level is equally as wide as it is near surface and contains the same gouge and breccia. Despite the fact that this faulted material caves very readily, the relative constituents are easily recognizable. Unfortunately the interbeds of coarse galena and sphalerite are absent. Only one or two 4 to 6 inch discontinuous quartz veins occur in the fault at this level.

At approximately 100 feet east of the shaft and on the 450 foot level the veins apparently terminate, as does the drift. The writer is not certain if they just pinch out or are cut-off by a cross fault that trends north 10 degrees west and dips 45 degrees east. This could be part of the Boston cross fault. Approximately 100 feet west of the shaft the veins are also lost.

This is to say, the mineralization and gangue veins have diminished from the fault zone between the 250 and the 550 foot levels.

350 Foot Level: Between the 350 and 250 foot levels and on the east side of the shaft the ore zone has been completely stoped out. Thus there is no ore to be had from here except a 10 foot wide pillar adjacent to the shaft that could possibly be salvaged.

West of the shaft has not yet been opened and mucked out but based on the considerable stoping east of the shaft it can be reasonably assumed that this too is completely stoped except for a possible pillar for salvaging.

Salvage Ore: The floor or downward projection of the east half of the 350 foot drift was sampled by the U.S. Department of Mine (?). Their assays run as follows:

Sample	Width	Location from Shaft	Pb	Zn
1	63"	5.0'	4.5	5.0
2	24"	10.0'	2.9	3.2
3	30"	17.0'	3.6	4.1
4	24"	24.0'	9.0	4.3
5	14"	30.0'	6.9	4.7
6	8"	53.0'	4.1	12.6
7	22"	65.0'	3.4	20.4
8	14"	73.0'	3.9	19.3
9	54"	80.0'	4.3	12.1
10	50"	90.0'	2.0	6.1
11	36"	105.0'	5.9	7.6

Similarly it is well displayed in the shaft directly below the 350 foot level that the above mineralization continues down for another 20 to 25 feet and thence appears to rapidly pinch out. Only the thin quartz vein continues down to the 550 foot level.

Assuming a minimum 4 foot mining width between the two solid granite walls, the above would represent approximately 1100 tons of rock.

The narrowness of the ore in places would therefore allow considerable dilution and cause the grade to be cut to only 1.94% Pb and 4.87% Zn. This would have a current combined N.S.R. value of $6.80 per ton.

There may be two complete sills at the shaft to salvage of approximately 400 tons each and at a similar but an assumed slightly higher grade than the above. No assays are as yet available from these pillars.

Therefore, it is conceivable to salvage a maximum of 1900 tons only with $6.80 to $7.00 per ton grade, at best.

CONCLUSIONS:

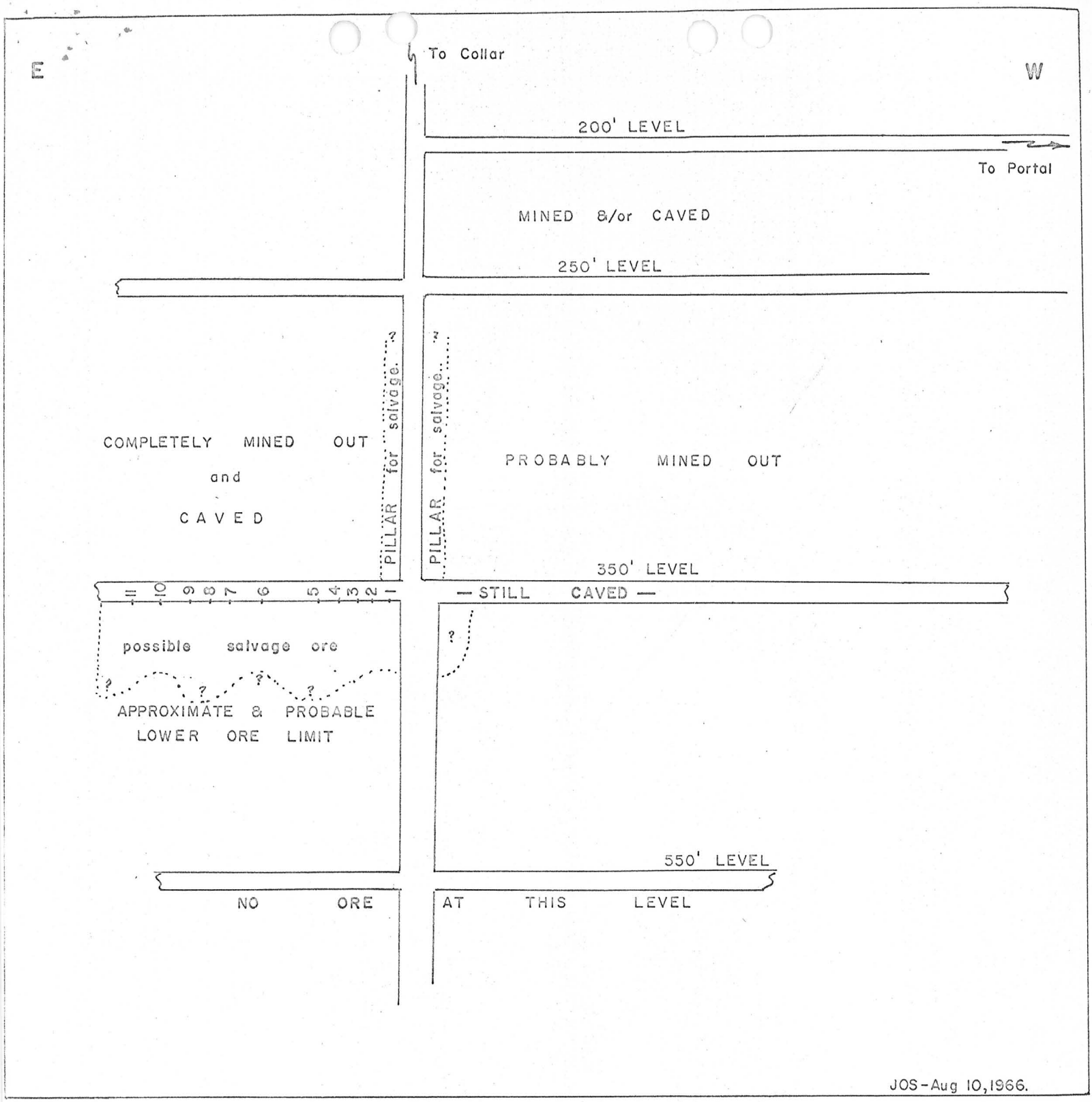
Considering the average cost of mining at the Iron King Mine, where costs are spread over a large tonnage, the above grade of rock is marginal to sub-marginal only.

It would seem to be advisable to ease out of the U.S. (Navy) involvement but at the same time encourage Frank Hovis to salvage the pillars and ore shoots himself and ship to the Iron King mill on a custom basis. By doing so we may recoup some of our investment.

NOTE:

The above conclusion is pending the processing of our electromagnetic survey results (in approximately one week).

JOS/db



INCLINED LONGITUDINAL SECTION OF U. S. (NAVY) MINE

SCALE :. 1 inch = 50 feet

ORE SETTLEMENT

SHATTUCK DENN MINING CORPORATION
Iron King Branch
MILL, HUMBOLDT, ARIZONA

Bought of T. W. ALEXANDER
Address Skull Valley, Ariz.
Name of Mine U. S. NAVY
3 loads

Dec 299 Prescott

May 5, 1951
Mill Lot - - - -
Shipper's Lot - - 13
Date Received 4-27 1951
Milled in May

Gross Weight	20.550 Tons
% H2o	2
Dry Weight	20.139 Tons

PAYABLE
Metal Content

Gold	Ozs.
Silver	Ozs.
Lead	Lbs.
Zinc	Lbs.
Copper	Lbs.

PAYMENTS

	Assay		Pay For	Price	AMOUNT Per Ton	AMOUNT Total
Gold	.06	oz.	80%	.048	27.50	1.32
Silver	2.5	oz.	90	2.25	.80	1.80
Lead	15.55	%	85	13.2175	2.35	31.06
Zinc	14.25	%	75	10.6875	1.75	18.70
Copper	.75	%	50	.375	2.50	.94
				Total	53.82	1083.88

DEDUCTIONS

Base Mill Charge	4.00		
Units Lead @			
Sampling and Assaying			
Total Deductions - - -		4.00	80.56
		49.82	1003.32
MILL RETURN			
Hauling by Mayer Trucking Co.			
20.55 tons @ 4.00, 82.20, tax 3%, 2.47			84.67
CHECK TO			918.65

Royalty 10% to Katherine J. Burns and J. W. Hobbs,
c/o Harry Marshall, 106 N. Cortez St., Prescott 91.87

826.78

Less bill 4-20-51 31.48

T. W. Alexander $ 795.30

Approved H. J. Wells

ORE SETTLEMENT

SHATTUCK DENN MINING CORPORATION
Iron King Branch
MILL, HUMBOLDT, ARIZONA

Bought of T. W. Alexander — March 14, 1950
Address Prescott, Arizona — Mill Lot - - - .....
Name of Mine U. S. Navy — Shipper's Lot - - 10 11
2 loads — Date Received 3/6, 1950

Gross Weight	14.950 Tons
% H2o	2
Dry Weight	14.651 Tons

PAYABLE
Metal Content

Gold	Ozs.
Silver	Ozs.
Lead	Lbs.
Zinc	Lbs.
Copper	Lbs.

PAYMENTS

	Assay		~~Deduct~~ Pay For	Pay For	Price	AMOUNT Per Ton	AMOUNT Total
Gold	.27	oz.	80%	.216	32.80	7.08	
Silver	2.70	oz.	80	2.16	.85	1.84	
Lead	17.34	%	90	15.606	1.25	19.51	
Zinc	10.67	%	75	8.0025	.65	5.20	
Copper	.62	%	50	.31	1.95	.60	
					Total	34.23	501.50

DEDUCTIONS

Base Mill Charge	3.50		
Units Lead @			
Sampling and Assaying			
Total Deductions - - -		3.50	51.28
		30.73	450.22
MILL RETURN			
Hauling by Mayer Trucking Co.			
14.95 tons @ 4.00, 59.80, tax 3% 1.79			61.59
CHECK TO			388.63

Royalty 10% to Katherine J. Burns and J. W. Hobbs
c/o Harry Marshall, 106 N. Cortez St., Prescott — 38.86

349.77

Less bill #2-1 3.67
Assays 2-16 6.75 — 10.42

C. V. 61.59
38.86

$ 339.35

Approved H. H. Mills

1. U. S. Copper Mine
2. Yavapai County, A a
3. La Mont West, acting with Ernest R. Dickie
4. E. A. Stone
5. June 3, 1943
6. Gold and Copper
7. "The company intends to make a more extensive study of the general region, within the next few months. Until we have a better knowledge of the district as a whole, Mr. Morton does not feel he is justified in undertaking prospecting and development on one mine."
8. ———

* * * * *

File: U.S. Mine(?)
Yavapai Co.
MILS 244 A

Diane is sending this file. Probably goes in it.

THE EAGLE-PICHER MINING & SMELTING COMPANY
MIAMI, OKLAHOMA

INTRA-COMPANY CORRESPONDENCE

TO Grover Duff - Tucson Office DATE April 6, 1951

FROM John W. Chandler - Miami Office

SUBJECT: Exploration Work

Dear Grover:

We are presently compiling a record of all the mines and prospects which we have examined for the Company during the past 10 years.

Starting with 1940, and listing the work done by years, such as 1940, 1941, 1942, etc., we would like to have the following information tabulated:

1. Name of property
2. Location - (State and County)
3. Who it was submitted by
4. Who made the examination
5. Time spent on the examination
6. Metals involved
7. General conclusions drawn from examination
8. Remarks - Under this heading could be shown whether we have done drilling or any other work in addition to the examination. Give brief outline. If the property subsequently became a mine unit and was operated so state.

We do not have a complete file in this office on all properties examined by the Company and we will combine your report with the one being made up from our files to make the final report complete. I would appreciate it if you could put someone on this work until it is completed, sending me three copies of your tabulation.

Best regards,

Jack.

John W. Chandler.

JWC/jm

4-25-51 - Mr. Chandler will send us a list of the properties on which they have reports in their files, and we will then send him the information on the others.

GJD

Mr. Williams Cbg
to see if U.S. Mine
10-3-62

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine U. S. Navy

Date Oct 6th, 1942.

District COPPER BASIN

Engineer A. C. NEBEKER

Subject: PRODUCTION POSSIBILITIES

The U. S. Navy property in Copper Basin, 14 miles south of Prescott
Mr Henry Williams Mgr.

The shaft has been dewatered to the 300 ft level and 75 feet has been retimbered.

The drift out from the shaft on the 300 ft level is caved, but near the shaft there is ore which assays, I am told, 9% lead, I0% zinc, and it is reported that ore shows along the drift.

Mr Williams tells me they are figuring on getting a $5000 loan inorder to clean up the caved ground, and when that is done thinks they can go into production in two weeks time.

They brought men over from the Boulder Mine to do this job so have not been worried about man power.

A C Nebeker

Granted

U. S. MINE

Copper Basin Mining District

Reconstruction Finance Corporation
Preliminary Development Loan

October 8, 1942

J. S. Coupal

Docket No.	Phoenix #60
Date Application Received	October 1, 1942
Date of Field Examination	None
Date of Report	October 8, 1942

1. Name and address of applicant (correspondent):
Henry L. Williams, Jr., P. O. Box 1226, Prescott, Arizona

2. Character of project and estimated cost thereof:
Unwater and repair incline shaft from 350 foot level to 450 feet. Clear drifts and sample. Lead-zinc-copper ore. Estimate cost, $5,000.

3. Location of property:
Copper Basin Mining District, Yavapai County, Arizona, T 16 N, R 3 W; 4½ miles to Skull Valley, 12 miles to Prescott, both railroad shipping points.

4. Applicant's interest in or ownership of property:
Applicant holds bond and lease on 6 unpatented claims.

5. Loan requested:
$5,000.

6. Loan recommended:
$5,000.

7. Comments:
(A) Samples and assays on dump and settlement sheets on ore shipments from mine indicate the existance of commercial ore in lower workings.

(B) Engineers report shows on 350 foot level an ore body 160 feet long, 2½ feet wide, averaging 25% lead, 23% zinc, 1½% copper, $7.00 in gold and 8 ounces in silver. This is pay ore and if, as can readily be determined, it checks, production can be started at once.

(C) No equipment required and to complete unwatering and clear drifts, if extremely bad conditions are not encountered, the cost should be much less than the $5,000 loan requested.

(D) Loan is recommended.

ARIZONA DEPARTMENT OF MINERAL RESOURCES

J. S. Coupal, Director

Sample "A" Dump directly off Shaft House
"B" Same dump 10 feet away from Sample "A"
"C" Same as B for checking purposes
Special.....Taken over full exposure of both larger dumps

It must be borne in mind that only every 10th piece would be ore.

Also that there were sections of dumps which showed no ore at all.

700' tunnel mul. on vein

Sample No. I Lower dump & side exposure

" No. III On South side of large dump 2½' wide " "
4' dug into dump
4' high

" No. IV From dump just this side of shaft collar
No doubt some of the last ore taken from mine

" No. V Same Dump - a few feet south of Sample No. IV

" No. VI Taken from trench dug along perisphere of large dump; trench 26' long 2½' wide, 3' high
a trench which follows the curve of the dump

Special M Sample - Taken from adit tunnel bed next to shaft about 1-1/3 foot thick.

RETURN TO FILES
Subject U. S. MINE
ARIZONA MACHINERY CO., INC.
PRESCOTT, ARIZONA.

Jan. 1927

U.S.MINE REPORT

LOCATION

Situate in the Copper Basin Mining District, Yavapai County, Arizona, TWP 13 N. Range 3 W.

PROPERTY.

Consists of five full mining claims, about 100 acres in all.

TITLE

Is shown by the records in the office of the County Recorder of Yavapai County, State of Arizona, to-wit:-

NAME	BOOK OF MINES	PAGE
U. S. Lode Claim	141	404
(Amended)	130	255
U. S. No. 1 Lode Claim	141	405
U. S. No. 2 " "	141	406
U. S. No.3 " "	141	407
U. S. No. 4 " "	141	408

Together with the improvements thereon and all the mineral and rights appurtenant thereto.

Reference is hereby made to the above records in the County Recorder's office of Yavapai County, Arizona, for a more particular description of said mining claims.

The property was aquired by purchase in cash from the original locators; all the necessary acts and filings have been made to comply with the Federal and State laws governing such titles, in the past; thus perfecting those rights aquired by the original locations. No debts or liens appear of record against the property.

WATER

There is sufficient water at and near the ~~camp~~ property for camp and mining and milling purposes.

TIMBER

The property is without groth of any kind other than the scrub and brush common to that part of Arizona.

ROADS

A County road passes over the property within 300 yards of the working shaft; a private road has been graded in from the County road to the camp and work.

GEOLOGY

The geological conditions are represented by eruptive dykes and stocks, dating back to the pre-Cambrians; these in turn have been altered by ~~s~~egional and local earth movements of great violence, fracturing and crushing the original formation, creating lateral pressure fractures and shear zones favorable to the bedding and deposit of those magmatic solutions common to the precipitation from eruptive magma or from lethal solutionsnizing from depth. (sic).

In theory; siliceous lenses, reefs of brecciated magma and plutonic rock, porphry in its several altered forms, were mineralized (probably by the solutions that brought silicification) with chalcopyrite, gold, silver, sphalerite and galena; erosion and decay of the original surfaces changed part of these to carbonates and oxides, and carried downward as leaching progressed, such minerals as formed the descending solutions from the decaying sulphides;(natural processes); the greatest mineralization by the commercial metals occurs at or near the shear zones previously mentioned; acid dykes (rhyolite-porphry) indicate the source of those acids necessary to destroy the primary minerals in both formations and assist the natural process of the destruction of the original magma and the later bedding at depth of such of the metals as were carried in the descending solutions; these would be copper and iron.

COMMERCIAL GEOLOGY

The U. S. Ledge (the ledge under discussion) has a course of about N.45' E. (course magnetic) and is opened and identified for a distance of some 3,700 ft, northerly from the moutn of the tunnel on the ~~xxxxxxxxx~~ southerly end of the U. S. Claim

by various shafts, pits, tunnels and open cuts, and follows the general course of a shear zone; the hanging wall is a metamorphosed quartz-diorite, the foot-wall a ryolite- porphry; the width of the ledge is not determined at any one point, some of the work being done on the hanging and some on the foot. My opinion is that it is at least 10 ft. or more in width. All of the gangue carrying sulphide ore of greater or less value. To my knowledge no crosscut has been run from one wall to the other.
The ore shoot, as it appears on the surface, has a length of four hundred feet and has been worked out to the sulphide ore, a depth of fifty to seventy five feet; the sulphide has been followed down to a depth of five hundred feet in an incline shaft started nearly in the center of the U.S.Claim and also of the "shoot" as it shows on the surface; the ore in the incline is continuous from top to bottom. A drift from the 350 level to the N. E. a distance of 160 ft., shows two and one-half feet of ore for the entire distance and having the following values: gold $7.00; silver 8 oz.; lead 25%; zinc 23%; copper 1½%; iron 12%. No determination of the balance of the ledge has been made that I know of.

On the 450 ft level the shoot was picked up about 50 ft from the shaft to the NE and entered for a distance of some five feet. This showed a solid face of sulphide ore, about four feet wide. Have no assays from this point but judging from the appearance I would say it is better grade than on the 350 ft level in gold, silver, lead and copper, the copper appearing in minute tetrahedral crystals thru the ore mass. The presence at this point would indicate to me that the ore is a secondary sulphide rather than a primary.

The fact that the ore does not appear to the south of the shaft on the 450 ft level, also determines the dip of the pipe or shoot in the ledge, which is important.

As previously mentioned, the oxidized zone in the ledge has been removed and shipped at some previous time. The attached sheets are copies I made from four of the original sheets which I had in 1917, when the examination for this report was made. The ore in these and many other shipments was taken from a shaft (now caved in) about 75 ft to the SW of the present working shaft.

ORE

The amount and value of the ore which may be called "in sight" may be calculated and the following seems to me to be a reasonable estimate: 160' x 350' x 2', divided by 5, the number of cubic feet per ton in the standing ore. This gives 22,500 tons. This is to the NE of the shaft. We may safely assume that the SW portion of the shoot to the SW of the shaft will produce at least 15,000 tons more. This allows 2 feet for the average width of the better grade of ore.

If we allow for this tonnage the average value of the four smelter sheets, $32.23 we find a gross value of standing ore of $1,218,625.00; if but 75% of this is allowed we still have $913,968.75 gross value; this does not take into consideration the large tonnage of lower grade ore that will be susceptable of some form of treatment at the mine.

SUPPLEMENTARY REPORT covering tunnel previously mentioned, situate at the south end of the US claim. This tunnel starts with a cross cut to reach the ledge at that point and has been driven a distance of 340 ft. (see addenda to report)

The work has been done piecemeal as assessment. Where first opened, the ledge was small and tight and had little or no value. Some little ore began to show at about the 200 ft point; from that point to the face it has steadily increased both in width and value; from the 250 point bunches of heavy sulphide began to occur in the gangue; at the 300 ft point quite a lense of the sulphide was passed thru and much more fine sulphide crystals appeared in the gangue increasing toward the breast; and an assay of the breast gave a little better than $12.00. This was an

average of 4 ft by 7 ft., the values being mostly lead and silver; the distance of the breast of the tunnel to the shaft is about 400 ft and will cut the shaft at the 218 ft point.
My thought of this condition is that it is approaching the lower side of the shoot and from the changes occurring in the last 50 ft. indicates that another 100 ft will reach the shoot.
Should ~~mxy~~ my thought be right in this, a continuation of this work would be advisable; in fact, this should be done to explore the bottom of the shoot; Also, crosscuts should be run from wall to wall to determine the width of and condition of the ledge at that point.

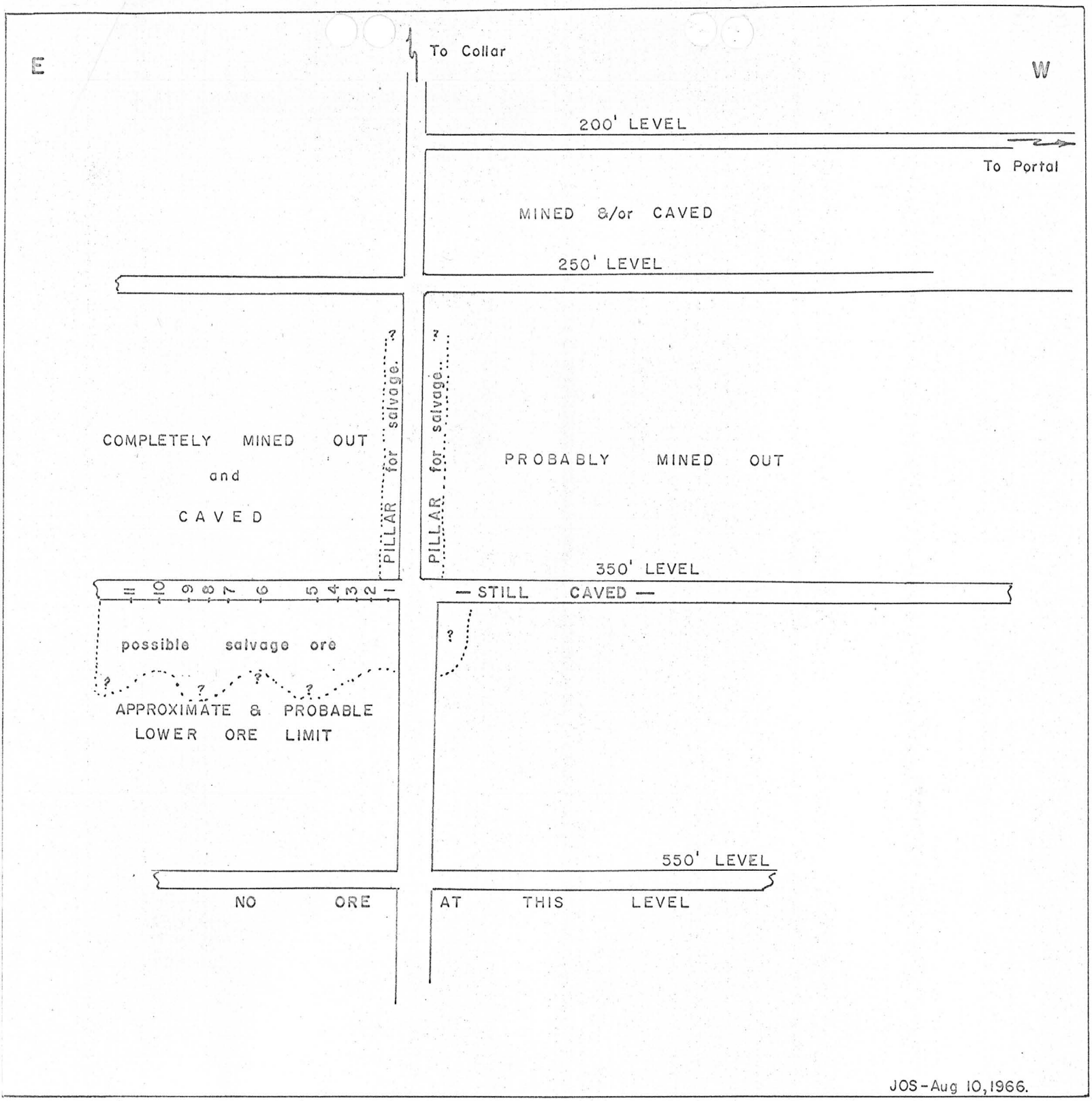
Respectfully submitted,

JUSTIN THAYER HINDS, E. M.

Dated; Prescott, Ariz.
Jan 1, 1927

ADDENDA
The tunnel on the 200 ft level referred to by Hinds above was driven to the shaft during the exploratory work of W. F. Burns in 1928-29 and the condition referred to found, the tunnel being about 700 ft long. No crosscutting was done. During this work, the tunnel cut the top of a highgrade ore shoot and a 65 ft winze was sunk, with a little drifting each was to partly explore it. Some carload shipments were made which checked closely with the previous shipments elsewhere in the mine, the average being better than $30.00. Nearer the shaft the lower side of the ore shoot was cut on which the previous work was done to the NE of the shaft, confirming the estimate of tonnage to the SW of the shaft. The winze is probably in a different ore shoot.
A considerable number of shipment sheets and assay certificates are available from the Burns work, all confirming generally the average values of the ore determined by Hinds.
At this time, 1936, Dec. the headframe is in good condition and the shaft timbering down to about the 170 ft point appears to be in good condition. The water stands about five sets above the long tunnel, due evidently to a (in the tunnel) slight cave. The shaft below the 300 ft level is double compartment and there is no reason why the entire length of the shaft should not be in good shape. The track is still in the 700 ft tunnel.
The 450 ft level was not unwatered during the last exploratory work, the unwatering only being to uncover the 350 ft level. When the work began the water stood nearly to the top of the shaft. The 200 level was run to tap the shaft, thus draining it to this point. A number 6 Cameron pump, steam operated was used to unwater the 350 ft level, discharging thru the 200 ft level tunnel. This took ten days. Thereafter the Cameron was operated an average of 16 hours daily to keep the water to the desired level.
Present equipment consists of a 100 HP boiler and steam hoist. No compressor equipment. Several good buildings are available.
The shipments made were for the purpose of sampling on a large scale, no stoping being done for other purposes. The stopes on the map herewith are shown too large for the scale of the map.
As no sampling was done with view to outline mill ore, the possibilities of crosscutting the vein showinga considerable body of medium grade mill ore are great.
There are large dumps which should be carefully sampled to see if milling grade ore has been thrown away.

WCB

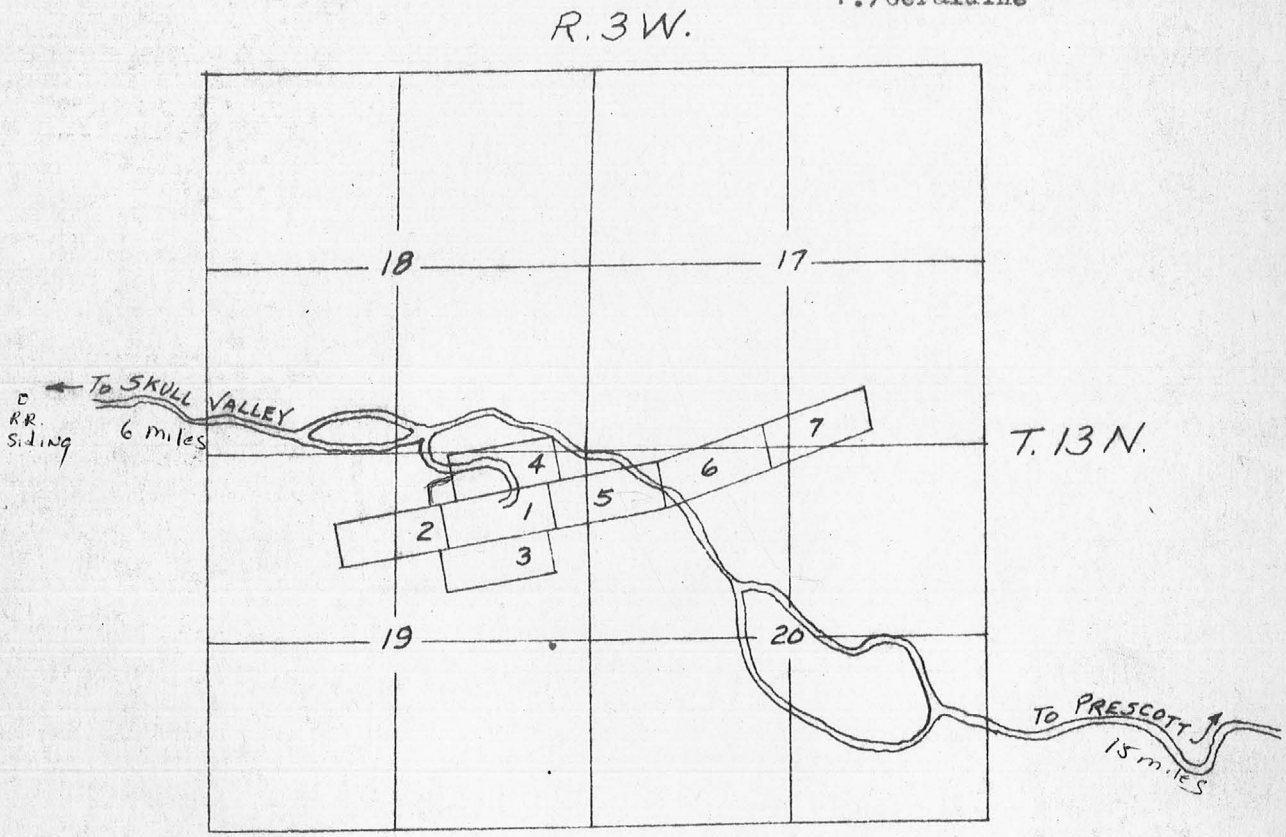


INCLINED LONGITUDINAL SECTION OF U. S. (NAVY) MINE

SCALE :. 1 inch = 50 feet

U-Adjustments-Prescott
Surface Rights
Crown King Area 3SR-91, AR-021164-R-8

1.) U. S. Amended
2.) U. S. No. 1
3.) U. S. No. 3
4.) U. S. No. 4
5.) U. S. No. 2
6.) Galena King
7.) Geraldine



PLAT
Showing the location of U. S. Amended, U. S. Nos. 1, 2, 3, 4, Geraldine and Galena King lode mining claims Sections 17, 18, 19 and 20, T. 13 N., R. 3 W., G&SRBM, Yavapai County, Arizona

Scale 2" = 1 Mile

D. J. Alexander
Exhibit No. 1

May, 1962

HAND
SAMPLE SERIAL 64596-

COPY

ASSAY CERTIFICATE

UNION ASSAY OFFICE, INC.

M. S. Hanauer, Pres.
J. V. Sadler, V- Pres. & Treas.
A. C. Selby, Secy.

MINE I. S. CO. 4346

U. S. Mine 350L.

Telephone Wasatch 1199
Salt Lake City,
Utah.

Results per Ton of 2000 pounds.

June 26, 1929.

NO.	CLASS	GOLD OZS. PER TON	VALUE GOLD	SILVER OZS. PER TON	LEAD %	COPPER % WET	INSOL. %	ZINC %	SUL- PHUR %	IRON %	LIME %
		0.020		20.9	18.0	2.46	0.6	21.2	25.8	13.0	4.2

REMARKS _____

CHARGES $_____

(Signed) M. Baden

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine U. S. NAVY Date October 6, 1942

District Copper Basin Engineer A. C. Nebeker

Subject: Production Possibilities

The U. S. Navy property in Copper Basin, 14 miles south of Prescott, Mr. Henry Williams, Mgr.

The shaft has been dewatered to the 300 ft. level and 75 ft. has been retimbered.

The drift out from the shaft on the 300 ft. level is caved, but near the shaft there is ore which assays, I am told, 9% lead, 10% zinc, and it is reported that ore shows along the drift.

Mr. Williams tells me they are figuring on getting a $5000 loan in order to clean up the caved ground, and when that is done thinks they can go into production in two weeks' time.

They brought men over from the Boulder Mine to do this job so have not been worried about manpower.

(S) A. C. Nebeker

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

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(S) A. C. Nebeker

C
o
p
y

BRUCE F. PATTISON
Assayer and Chemist -

Registered Assayer
Registry Number 857

226 South Montezuma St.,
Prescott, Arizona

April 1, 1942

This is to certify that the sample assayed for Mr. Alvo Von Albensleben gave the following results per ton of 2000 pounds:

No. Description	Gold Oz.	Silver Oz.	Copper %	Lead %	Zinc %	Iron %	Value $
Sample #1	Trace	0.36	-	0.75	0.50	-	Dump from 700' tunnel not on vein
Sample #3	Trace	2.20	-	2.15	0.75	-	Dump from 700' tunnel not on vein
Sample #4	Trace	3.40	-	12.50	15.35	-	
Sample #5	Trace	2.50	-	7.65	13.70	-	
Sample #6	Trace	1.00	-	4.25	4.25	-	
Special Mine Sample	0.015	17.40	-	17.50	10.25		
Sample "A"	0.01	5.60	-	11.75	18.30		
Sample "B"	0.01	3.40	-	10.80	14.70		
Sample "C"	0.015	3.20		14.10	15.75		
Special	0.01	3.60		18.75	27.80		

Gold @ _____ Per Oz.

Silver @ _____ Per Oz.

Copper @ _____ Per Unit

Lead @ _____ Per Unit

(Signed) B. F. Pattison,
Assayer

C
O
P
Y

A G R E E M E N T

THIS AGREEMENT, made this ~~10th~~ 2nd day of ~~January~~ June, 1942, between Wm. F. Burns and J. W. Hobbs, of Prescott, Yavapai County, Arizona, first parties, and H. L. Williams of Prescott, Yavapai County, Arizona, second party;

WITNESSETH:

That first parties, for and in consideration of the covenants and agreements hereinafter contained on the part of second party to be kept and performed, have given and granted, and by these presents do give and grant, unto second party, and unto his heirs, executors, administrators and assigns, the sole and exclusive option to purchase the following described mining claims and premises, on the terms and conditions hereinafter set forth:

All those certain unpatented lode mines and mining claims, situate in the Copper Basin Mining District, Yavapai County, Arizona, the names of which, together with the books and pages of the record of Mines in the office of the County Recorder of Yavapai County, Arizona, where the respective notices of location thereof are of record, are as follows:

Name of Claim	Book of Mines	Page
U. S. Lode Claim	141	404
U. S. Lode Claim, Amended	130	286
U. S. No. 1 Lode Claim	141	405
U. S. No. 2 Lode Claim	141	406
U. S. No. 3 Lode Claim	141	407
U. S. No. 4 Lode Claim	141	408

to which said notices of location, and the record thereof, reference is hereby had for greater particularity of description of said mining claims and premises.

Together with all of the dips, spurs and angles, and all of the ores, metals, minerals, and mineral bearing quartz, rock, earth and formation therein contained, and all of the rights, privileges and franchises thereunto incident,

appendant or appurtenant, or therewith usually had, used or enjoyed; and also all of the tenements, hereditements and appurtenances, improvements, machinery, equipment and property of every kind and character thereunto belonging, or in anywise appertaining, and the rents, issues and profits thereof.

First parties warrant to second party, his heirs, executors, administrators and assigns, that the said described mining claims are valid and subsisting unpatented lode mining claims, and that they are seised of a good and sufficient possessory title thereto, free and clear of liens, uncumbrances and adverse claims of every kind and character, and subject only to the paramount title of the United States.

The purchase price of the said described mining claims, premises and property, in the event the option herein granted be fully exercised, is and shallbe the sum of Fifteen Thousand Dollars ($15,000.00), in lawful money of the United States, payable as follows, to-wit:

The sum of Seven Thousand Five Hundred Dollars ($7,500.00) payable on or before January 17, 1943; and

The sum of Seven Thousand Five Hundred Dollars ($7,500.00) payable on or before January 17, 1944.

It is further understood that the party of the second part shall pay each of the parties of the first part, beginning September 2nd, 1942 the sum of One Hundred Dollars ($100.00) per month during the life of this agreement, which sums shall be deducted from the next ensuing installment of purchase price to become due.

Exhibit A

Upon the execution of this agreement second party shall have the right to the exclusive possession of the said described mining claims, premises and property, with the right to develop, work and operate the same, provided all such work shall be done in a good and minerlike manner, in conformity with the laws of

the State of Arizona, and the rules and regulations of the State Mine Inspector.

Second party shall pay to first parties a royalty of ten per cent (10%) of the net smelter or mint returns from all ores mined and removed from said property during the continuance of this agreement, such royalties to be deducted by the smelter or mill and mailed by the smelter or mill to the bank holding the deed in escrow, and such royalties, when paid, to apply upon the purchase price and particularly upon the next ensuing instalment becoming due hereunder. The term "net smelter or mint returns" as herein used shall be construed to mean the gross values found and accounted for by the smelter, mint, or other place of treatment and sale, less the cost of railway transportation and trucking between the U. S. Mine and the smelter, mint or other place of treatment and sale; and smelter, mint and other treatment charges, penalties and deductions, and taxes, if any, levied on the production and sale of all metals.

Concurrently with the execution of this agreement first parties shall execute and place in escrow with the BANK OF ARIZONA at PRESCOTT a good and sufficient mining deed of said mining claims and premises, vesting in second party a good and sufficient title thereto as hereinbefore warranted, together with escrow instructions to said bank in conformity with the provisions of this agreement, and thereafter all payments, whether of instalments of purchase price or royalties, becoming due hereunder shall be made to said bank for the credit of first parties.

Within ninety (90) days after the date hereof, if the weather and climatic conditions permit, second party shall furnish to first parties duplicate of assay returns, and a copy of all smelter or mill returns and assay maps and other data

compiled for the purpose of checking ore values.

Second party agrees to do a reasonable amount of development work in company with extractions of ores, to the end that existing ore reserves may be preserved against undue depletion.

First parties shall have the right, at all reasonable times, to go upon said property, and the workings thereof, for the purposes of inspection.

Second party agrees to post and keep continuously posted, in the manner and places required by law, such notices of non-liability for labor performed and materials furnished as first parties shall provide.

Second party shall have the right, in the event of the forfeiture or abandonment of this option, to remove from said property all buildings, structures, machinery, equipment, and property of every kind and character which he shall have installed thereon, provided such removal can be accomplished without material injury to the workings thereon.

Time is the essence of this agreement, and in the event second party shall fail to make any of the payments of money or to do or perform any of the covenants or agreements herein contained on his part to be kept or performed first parties shall have the right to declare this agreement terminated and at an end, after giving second party thirty (30) days prior written notice of their intention so to do, and if, at the expiration of said time the default on account of which such notice has been given be not cured this agreement shall thereupon stand terminated and all sums of money paid by second party hereunder forfeited to first parties as liquidated damages for such failure, and all parties hereto shall thereupon stand relieved of further liability hereunder.

This agreement shall extend to, be binding on, and inure to the benefit of the heirs, executors, administrators and assigns of the respective parties hereto.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands the day and year first above written.

Wm. P. Burns

Witness:

J. W. Hobbs

W. S. Randall

H. L. Williams

STATE OF ARIZONA, } ss.
COUNTY OF YAVAPAI. }

This instrument was acknowledged before me this ~~1st~~ 2nd day of ~~January~~ June, 1942, by Wm. P. Burns and J. W. Hobbs as first parties within named and by H. L. Williams as second party within named.

My commission expires June 30, 1942.

(S e a l)

Eva Waitman
Notary Public.

June 1 - 1940

OPTION FOR SALE OF MINING CLAIMS

THIS AGREEMENT made and entered into this 18th day of December, 1936, by and between Wm. F. Burns and J. W. Hobbs of Prescott, Arizona, first parties, and W. C. Broadgate of Prescott, Arizona, second party,

WITNESSETH: That first parties for a valuable consideration, hereby give to second party, the exclusive option to purchase all their interest, being the whole interest in and to the following described lode mining claims in Copper Basin Mining District, Yavapai County, Arizona, the names of said claims, together with the books and pages of the location notices thereof in the County Recorder's office of Yavapai County, Arizona, being as follows, to-wit:

Name	Book of Mines	Page
U. S. Lode Claim	141	404
" (Amended) "	130	255
U. S. No. 1 Lode Claim	141	405
U. S. No. 2 Lode Claim	141	406
U. S. No. 3 Lode Claim	141	407
U. S. No. 4 Lode Claim	141	408

Together with the improvements thereon and all the mineral and rights appurtenant thereto.

Reference is hereby made to the above records in the County Recorder's office of Yavapai County, Arizona, for a more particular description of said mining claims.

This option is given subject to the following conditions:

1. The purchase price shall be the sum of $15,000.00 (Fifteen Thousand Dollars), payable in cash within four months from date.

2. Second party shall have thirty (30) days from date hereof within which to make a surface and preliminary examination of said property.

3. Upon the payment of One Hundred Dollars ($100.00) to first parties within thirty (30) days from date hereof, and One Hundred Dollars ($100.00) on the 18th day of February, 1937, and One Hundred Dollars ($100.00) on the 18th day of March, 1937, the second party may, during such three months period, unwater said mine and sample the same at his own expense, and he shall have the full and complete possession of said property for such purpose, without interference from first parties.

4. If second party shall have paid the monthly payments as herein provided, he shall have the right to purchase said property for the sum of Fifteen Thousand Dollars ($15,000.00) at any time within the four (4) months period mentioned, less any monthly payments made.

5. First parties covenant and agree that they have good title to said premises and property and upon the payment of the purchase price, at and within the time provided, will convey the same to second party or his assigns, free and clear of all encumbrances.

6. Second party agrees that said property and first parties shall not be held responsible or liable in any way for any work done by him thereon under and by virtue of this agreement. He agrees to keep notices of non-liability posted.

7. Any machinery and equipment placed on said property by second party shall remain his property and may be removed on the termination of this option.

8. Should second party fail to make the payments as hereinabove provided, or any of them, first parties shall have the right to forfeit this option and agreement, and upon notice to second party, after such forfeiture declaration, second party agrees to give a written cancellation hereof.

This agreement is assignable, and all the provisions hereof shall inure for and against the assignees. This agreement is binding upon the parties hereto, their heirs, executors and assigns.

IN WITNESS WHEREOF the parties have hereunto set their hands as of the day and year first above written.

Wm. F. Burns

J. W. Hobbs
First Parties

W. C. Broadgate
Second Party

STATE OF ARIZONA)
) ss.
COUNTY OF YAVAPAI)

The foregoing instrument was acknowledged before me this 22nd day of December, 1936, by Wm. F. Burns and W. C. Broadgate, J. W. Hobbs.

My commission expires
June 1, 1940

Esse S. Lyman
Notary Public

U. S. Navy Mine

Yavapai County
Copper Basin District

Visited J. W. Ballew of Skull Valley - Learned that 2 Colorado men, names and addresses unknown, have taken a lease on the U.S. Navy mine in Copper Basin. It is a Pb-Zn mine and owned by Wayne Alexander of Mayer.

FTJ WR 1/21/66

Some Activity at the Navy Property.

FTJ WR 6/24/66

U. S. Navy Mine in Copper Basin is being activated, retimbering shaft, etc., parties doing the work could not be learned. Owner of the property is T. W. Alexander of Mayer.

FTJ WR 7/22/66

Visited U.S. Mine out of Skull Valley, Mine is idle. Vernard Jordon and Joe Pierce both of Skull Valley cleaned the mine to the 400' level and shipped about 350 tons of Pb, Zn ore to the Iron King They relinquished lease due to high royalty payments.

FTJ WR 10/21/66

Visited U. S. Mine - reportedly active, but no one at property.

FTJ WR 11/24/67

Interviewed Pat Sayre in Skull Valley - he said McFarland-Hullinger are studying the U. S. Mine. FTJ WR 1/23/70

11-23-77 - A map of Black Rock District and a map of Wickenburg showing points of interest are filed in the Wickenburg general file. 11-23-77 bh

JOSEPH W. WALTON,
PRESIDENT
W. W. STEPHENSON,
VICE-PRESIDENT
JAMES W. ENGLAND, JR.,
2ND VICE PRESIDENT
H. L. WILLIAMS,
SECRETARY-TREASURER
ELMER C. HIGGINS,
ASS'T. SEC. TREAS.

CHINO VALLEY OIL DEVELOPMENT CO.

POST OFFICE BOX 1226
PRESCOTT, ARIZONA

OFFICES:
OLYMPIC HOTEL
SEATTLE, WASH.
SUITE 536 ROOSEVELT BLDG.
LOS ANGELES, CALIF.
ELKS BUILDING
PRESCOTT, ARIZONA

December 5, 1942.

DEPT. MINERAL RESOURCES
RECEIVED
DEC 14 1942
PHOENIX, ARIZON

Mr. W. C. Broadgate, Assistant Director,
Department of Mineral Resources,
Hotel Harrington,
Washington, D. C.

Dear Bill:

I have delayed writing you as I wanted to make a final report on the U. S. Navy Mine but it looks like it will be another month or two before I get it completed.

I have dewatered the shaft to 450 feet, still have about 75 feet to go. The shaft is filled with sand and roots from the cave-in near the collar. As you know, in what they termed the 200 foot level, the shaft was caved. I retimbered it and caught everything up and from there to the 350 foot level Lampton had gouged on each side of the shaft and left his waste and boulders right on the track. He evidently did that as he came out, trying to get everything he could lay his hands on. I finally got all that mucked out and cleared down to the 350. The 350 was all caved and he had been stoping and leaving his waste piled in the drift. I had to spile through some of this but I have it all caught up and retimbered right to the face. Instead of being 163 feet it is 121 feet. The ore will average about three feet in width for the distance. At the present price of zinc and lead it will run about $38.00 a ton.

On the 450 foot level I found a station twenty feet square with a four inch pipe in the center of the track. There is a drift each way from the station but I have not as yet gotten these drifts mucked out. There is very nice looking ore in the drifts. I haven't been able to get a sample yet on account of the water and muck. I expect by Sunday or Monday to be down to the floor of the station so that I can start working each way. I am informed there is a larger station on the 500 foot level and a drift each way.

The mine will stand up and is a much better mine than I ever thought it was. On the 250 foot level I am mucking out the drift. You can get over the top of the muck and you can see between two and two and a half feet of solid zinc and lead. They were drifting north and if they had continued another 200 feet would have been directly under

JOSEPH W. WALTON,
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PRESCOTT, ARIZONA

Mr. W. C. Broadgate, P.2. 12-5-42

that good winze of ore that they had from the 200 foot tunnel. You remember they sank a winze about 350 feet from the portal of the tunnel on the 250 foot level. This winze is supposed to be 65 feet deep. The ore cut out in the bottom of the winze. What happened was that it faulted. There is a fellow who works for the City now, he runs their compressors, and he took a jackhammer and ran a hole in on a 45 degree angle and picked up the lead and zinc about three feet in the foot wall. What I am doing now is mucking out the tunnel and I will sink a winze where this hole is and be able to show the ore again.

I received my government loan money on the twenty-second day of November. I do not know where or how things got tangled up but they certainly did. First I think I should dewater to the 500 foot level so that I can have all the drifts mucked out and in shape for inspection of the government engineer. What I would like to know is what I must do to get the "B" loan.

I saw your father the other night. He seems to be in good health and spirits.

Hoping this letter finds you enjoying the best of everything and with kindest personal regards, I remain,

Yours sincerely,

H. L. Williams

hlw:ew H. L. Williams.

CLASS OF SERVICE

This is a full-rate Telegram or Cablegram unless its deferred character is indicated by a suitable symbol above or preceding the address.

WESTERN UNION

1201

SYMBOLS

DL=Day Letter
NT=Overnight Telegram
LC=Deferred Cable
NLT=Cable Night Letter
Ship Radiogram

A. N. WILLIAMS, PRESIDENT
NEWCOMB CARLTON, CHAIRMAN OF THE BOARD
J. C. WILLEVER, FIRST VICE-PRESIDENT

The filing time shown in the date line on telegrams and day letters is STANDARD TIME at point of origin. Time of receipt is STANDARD TIME at point of destination

DA632 37 NL XC=PRESCOTT ARIZ 26

1942 OCT 27 AM 12 26

WM H BROADGATE=

ASST DIR MINERAL RESOURCES CARE HARRINGTON

HOTEL WASHDC=

THANKS FOR WIRE AND YOUR ASSISTANCE MINE SHOULD BE READY FOR B LOAN SOON AS DEWATERED TO FIVE HUNDRED FOOT LEVEL THREE FIFTY LOOKS FINE LAMPTON SURE LEFT MINE IN TERRIBLE CONDITION WILL KEEP YOU ADVISED REGARDS=

H L WILLIAMS.

B.

DEPT. MINERAL RESOURCES
DENVER
OCT 31 1942
PHOENIX, ARIZONA

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

CLASS OF SERVICE DESIRED			
DOMESTIC		CABLE	
TELEGRAM	X	ORDINARY	
DAY LETTER		URGENT RATE	
SERIAL		DEFERRED	
NIGHT LETTER		NIGHT LETTER	
SPECIAL SERVICE		SHIP RADIOGRAM	

Patrons should check class of service desired; otherwise the message will be transmitted as a telegram or ordinary cablegram.

WESTERN UNION

1213-D

R. B. WHITE, PRESIDENT
NEWCOMB CARLTON, CHAIRMAN OF THE BOARD
J. C. WILLEVER, FIRST VICE-PRESIDENT

CHECK
ACCOUNTING INFORMATION
TIME FILED

Send the following message, subject to the terms on back hereof, which are hereby agreed to

To H. L. Williams

Oct. 26, 1942 19

Street and No. Prescott, Ariz.

Place

DEPT. MINERAL RESOURCES
RECEIVED
OCT 28 1942
PHOENIX, ARIZ.

Your loan on U.S. mine OK. You should have disbursement authority in a few days.

Bill Broadgate

WHEN YOU *Travel*
SEND
WESTERN UNION
TOURATE
TELEGRAMS
Only
35¢ ANYWHERE
FOR FIRST 15 WORDS
Additional words for a few cents more

Sender's address for reference

Sender's telephone number

Washington, D.C.
Oct. 26, 1942

DEPT. MINERAL RESOURCES
RECEIVED
OCT 28 1942
PHOENIX, ARIZONA

SUBJECT: Mine Loans
Class C
H. L. Williams, C-ND-60
Coupal's memo of Oct. 24

I have this afternoon wired Williams as per the enclosed wire, as he wired me and you thought fit to leave it to me to check on it.

I am particurly interested in the contents of this memo as I am pleased to have this policy authorized on Class C loans and not to have to service them unless there may be something of particular interest or importance involved; as a matter of routine the RFC seems to be doing very well with these.

When points of RFC policy regarding these loans comes up, I shall be glad to go into it, as in the case of several loans to the same individuals on which we exchanged memos some time ago.

Bill Broadgate

SUBJECT: Phoenix, Oct. 24,1942.

Mine Loan H. L. Williams
U. S. Mine.

TO: W. C. Broadgate.

FROM:- J. S. Coupal.

Your memo of Oct. 13 on this subject.

This is a "C" loan which has Docket No. C-ND-60 and was favorably recommended for a $ 5,000 loan on Oct. 9 by this office.

I believe you are right on not being called upon to follow up the "C" loans for these seems to be going through O.K.

We have not as yet had notice from the RFC that this has been approved.

Williams has been going ahead spending his own money and evidently has his work well in hand. Knowing him and his operations personally you may wish to go after a little speeding up on this particular case.

My suggestion is that you use your own good judgement. Personally I feel as though the "C" loans should await their turn.

Washington, D.C.
Oct. 13, 1942

DEPT. MINERAL RESOURCES
RECEIVED
OCT. 15 1942
PHOEN

SUBJECT: Mine Loan
H. L. Williams,
U. S. Mine

I have a wire from Williams today stating "Coupal advises application has been forwarded department at Washington" etc.

Please davise me as to the urgency of checking this.... the application probably has reached here, but if it is a C loan, there is not much I can do unless there is specific reason for trying to get it taken out of turn. As you know, these are processed very rapidly, but they are pouring in by the hundreds and the Mining Section is pretty well chocked with them at the moment, so that there may be a little more delay than is usual with this class of loan. More help has been put on but it is still a little green.

Bill Broadgate

U. S. mine

Washington, D.C.
Oct. 8, 1942

JSC

DEPT. MINERAL RESOURCES
RECEIVED
OCT 10 1942
PHOENIX, ARIZONA

SUBJECT: H. L. Williams
Wire on mine loan

Will you please get an interpretation of this wire for me?

I remember that we got Williams forms for application and I advised him to handle the matter entirely through the Department.

I was under the impression that it was to be a C loan, and if so you will have more information than I. If not, get me the details to follow if it is time to do so.

Bill Broadgate

Telegram attached.

S OF SERVICE

This is a full-rate Telegram or Cablegram unless its deferred character is indicated by a suitable symbol above or preceding the address.

WESTERN UNION

1201

SYMBOLS

DL=Day Letter
NT=Overnight Telegram
LC=Deferred Cable
NLT=Cable Night Letter
Ship Radiogram

~~135~~ R7 G

A. N. WILLIAMS, PRESIDENT
NEWCOMB CARLTON, CHAIRMAN OF THE BOARD
J. C. WILLEVER, FIRST VICE-PRESIDENT

The filing time shown in the date line on telegrams and day letters is STANDARD TIME at point of origin. Time of receipt is STANDARD TIME at point of destination

CD90 38 NL XC=PRESCOTT ARIZ 7

W C BROADGATE=

1942 OCT 7 PM 4 14

ASST DIRECTOR MINERAL RESOURCES HOTEL HARRINGTON

WASHDC=

MADE APPLICATION FOR DEWATERING LOAN UMABLE SEE COUPAL WAS REFERRED MORNING GAVE HIM APPLICATION HE STATED HE WOULD FORWARD WASHINGTON AT ONCE WOULD APPRECIATE YOUR HELP MINE DEWATERED THREE FIFTY LEVEL LOTS MUCH AND WORK TO DO REGARDS=

H'L WILLIAMS.

2

COUPAL.

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

August 22, 1942

Mr. H. L. Williams
P.O. Box 1226
Prescott, Arizona

Dear Mr. Williams:

W. C. Broadgate, Assistant Director in Washington, has forwarded me your correspondence regarding the U. S. Navy Mine together with his letter of August 19 to you.

When you complete the application on the loan, I would gladly go over the details with you if you so desire, or, if you will, contact A. C. Nebeker, our Field Engineer, in the Prescott district, Box 1175, Prescott, Arizona, and Mr. Nebeker will assist you in advising on the application.

I would like to take this opportunity to say that most of the delay in getting a loan is caused by the incomplete outline of data furnished by the applicant. I suggest that you take plenty of time and give complete details on all points on which questions are asked and have them prepared in a presentable manner. This calls for assay maps, reports, and an estimate of the cost of equipment and work to be done, and results anticipated by such work.

With best wishes and kindest regards, I am

Very truly yours,

J.S. Coupal,
Director

JSC:hal

DEPT. MINERAL RESOURCES
RECEIVED
AUG 21 1942
PHOENIX, ARIZONA

Aug. 19, 1942

Hotel Harrington
Washington, D.C.

Mr. H. L. Williams,
P. O. Box 1226,
Prescott, Arizona

Dear Mr. Williams,

At your recent request I am having the RFC mail you today complete information and forms for a Class B loan.

As you remark, I am somewhat familiar with the U.S. Mine, and I should think there would be no difficulty in getting a development loan on it. However, you must remember that I have not been in the mine since A. L. Lampton worked there, so do not know the picture as of now. Lamptón made numerous shipments and I know his method was to get all he could and put as little as possible into development. I trust the showing remains good.

Please be advised that all contacts must be arranged through our Phoenix office, and Mr. Coupal there will advise you just what to do when you get the forms and are ready to file, or will have our field man Nebeker call for the purpose. However, I should certainly advise you to stop at our office and talk to Coupal about this loan application, as then you will be sure of performing correctly, which means a great deal of time-saving at this end.

I am taking the liberty of forwarding the file you sent me to Mr. Coupal in Phoenix, anticipating your call there, so he can study the deal.

With kindest personal regards to you and Hank, adn assuring you that the Department will cooperate in all possible ways,

Very truly yours,

W. C. Broadgate
Asst. Director

JOSEPH W. WALTON,
PRESIDENT
W. W. STEPHENSON,
VICE-PRESIDENT
JAMES W. ENGLAND, JR.,
2ND VICE PRESIDENT
H. L. WILLIAMS,
SECRETARY-TREASURER
ELMER C. HIGGINS,
ASS'T. SEC. TREAS.

ARIZ. BUREAU OF MINERAL RESOURCES
RECEIVED
AUG 21 1942
PHOENIX, ARIZONA

CHINO VALLEY OIL DEVELOPMENT CO.
POST OFFICE BOX 1226
PRESCOTT, ARIZONA

OFFICES:
OLYMPIC HOTEL
SEATTLE, WASH.
SUITE 536 ROOSEVELT BLDG.
LOS ANGELES, CALIF.
ELKS BUILDING
PRESCOTT, ARIZONA

Aug 17th 1942

Mr W H. Broadgate
Harrington Hotel
Washington D.C.

Dear Mr Broadgate:

I have the shaft caught up mucked out and retimbered in the U.S. Navy mine and should have it developed within the next few days. I would like to get a twenty thousand dollar development loan. Will you please forward me the proper application. In the new agreement I made with Messrs Burns & Hobbs they have consented to my obtaining a loan.

You are familiar with the property and are therefore in a position to give first-hand information. I am positive the inspecting Engineer will recommend the loan as the mine has real merit. I enclose some samples of the results we had done. I assure you we did not give the mine any the best of it. We wanted to know what was there. I believe the mine has been operated by high graders who paid little attention to the large low grade tonnage. With some development the mine can be made ready for a mill and I am sure will be a large producer.

JOSEPH W. WALTON,
PRESIDENT
W. W. STEPHENSON,
VICE-PRESIDENT
JAMES W. ENGLAND, JR.,
2ND VICE PRESIDENT
H. L. WILLIAMS,
SECRETARY-TREASURER
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CHINO VALLEY OIL DEVELOPMENT CO.
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ELKS BUILDING
PRESCOTT, ARIZONA

The following claims compose the U.S. Navy Groups.

	Book of Mines	Page
U.S. Lode claim	141	404
U S Lode Claim Amended	130 " "	253
U S No 1 Lode claim	141	405
U S No 2 Lode claim	141	406
U S No 3 Lode claim	141	407
U S No 4 Lode claim	141	408

I am enclosing copy of my agreement with Burns and Hobbs. Copy of letter by Howard Nowell, Report by Justin Thayer Hinds & M. Copy of assay by Union Assay Inc. of Salt Lake. These were furnished me by Messrs Burns & Hobbs

I believe you have everything necessary to make the application. I will greatly appreciate your assistance in this matter. Thanking you in anticipation. With kindest regards

Sincerely.

H L Williams

P.S.
I hope you can read this as Mrs Boardman broke her leg and I am without a stenographer She expects to be back in about one month

H L W

JOSEPH W. WALTON,
PRESIDENT
W. W. STEPHENSON,
VICE-PRESIDENT
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ELKS BUILDING
PRESCOTT, ARIZONA

Insert X

It is further understood between the parties hereto that should the party of the second part be able to secure a Government loan for the purpose of developing and installing equipment upon said property the parties of the first part do hereby consent to said loan under the conditions laid down by the Government of the United States.

It is further understood and agreed between the parties hereto that the party of the second part agrees to dewater the mine on or before September 2nd 1942.

Prescott, Ariz.
Jan. 13, 1936

Mr. A. L. Lampton,
Golden Belt Mines, Inc.,
Cordes, Ariz.

Dear Mr. Lampton,

As per our conversation of this morning relative to the ~~Navy~~ U.S. Mine, Mr. W. F. Burns, who has the necessary authority from the other co-owner, is willing to do the following when the existing option has expired;

On the first of February, 1937, he will execute the following purchase contract to you;

One hundred dollars on signing the contract, and one hundred dollars minimum royalty each month thereafter for six months, after which period the payment of the full purchase price of $15,000.00 will fall due, less the payments made. All shipments of any kind made from the property during this period to be subject to a royalty of 10% of the net smelter or mint returns, this also to be applied upon the purchase price.

The contract will be subject further to the usual terms of a mining contract regarding working in a miner like manner, etc.

It is understood that you will begin to sample within thirty days after the execution of the contract, if the weather permits.

Arrangements will be made to put the deeds in escrow in a local bank at the time of signing the contract.

Mr. Burns would like to have a written acceptance of these terms from you about five days before the first so that the necessary contracts can be prepared for signature and the escrows arranged. By this time the results of the outstanding deals will have been definately determined.

Very truly yours,

W. C. Broadgate

wcb/me
CC/ W. F. Burns.

It is understood that reasonable development work will be done to preserve the ore reserves.

COPY

HOWARD O. NORVILLE

Mining Engineer

PRESCOTT, ARIZONA.

October 21, 1935

Mr. W. F. Burns,
Prescott, Arizona.

Dear Mr. Burns:

In the limited time that has been available for making the examination, I have checked the report of Justin Thayer Hinds, E. M., dated January 1, 1927, covering the property known as the U. S. Mine, located in Copper Basin between Prescott and Skull Valley, and find it to be accurate in every respect.

Shipments of ore and further development since the date of the report disclose possibilities of operation exceeding those anticipated at that time.

An examination of smelter sheets and records of shipments show ore of an average value of $40.00 per ton at the old prices for gold and silver and no allowance for the zinc content of the ore.

Present day metallurgical processes of course have made it possible to treat ores of this character by selective flotation, thereby giving value to metals contained in the ore on which smelters previously placed a penalty. With metal market prices at the present level, this property should become a very active producer.

Very truly yours,

Howard O. Norville
Registered Engineer,
Arizona Registration No. 602.