



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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05/03/88

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: BLACK MESA MINE

ALTERNATE NAMES:

THORNE'S #17, ET AL

MARICOPA COUNTY MILS NUMBER: 782

LOCATION: TOWNSHIP 6 N RANGE 9 E SECTION 31 QUARTER
LATITUDE: N 33DEG 49MIN SEC LONGITUDE: W 111DEG 29MIN SEC
TOPO MAP NAME: BOULDER MTN - 7.5 MIN

CURRENT STATUS: OTHER

COMMODITY:

BIBLIOGRAPHY:

ADMMR BLACK MESA MINE FILE
SEE: INDUSTRIAL MINERALS, INC CO FILE

Handwritten initials/signature

CLAY THORNE COMPANY

**P. O. Box 392
Payson, AZ 85547**

Phone: 474-5963

March 5, 1987

PROPOSAL

**BLACK MESA
START-UP AND PRODUCTION COST
AND NET RETURNS**

Black Mesa Mines consist of 80 mining claims containing 1600 acres. We are offering a buy down joint venture operation on approximately 33 claims (660 acres). The balance of said claims may be negotiated at a subsequent time.

The mining claims aforementioned have been properly staked with notices and filed with appropriate County (Maricopa) and Federal (Bureau of Land Management) agencies. Permits for volume testing have been issued.

Leaching and hardrock testing to date have consisted of (approximately) 100 tons; 50 tons leach (thiourea) and 50 tons through Knudson Bowl and Flotation System.

This testing was performed on one claim only. Additionally, the assay reports cover numerous area assays performed by the writer and renown certified laboratories throughout the world (some assays from England, Netherlands and Belgium are still pending).

Assays on this property will vary greatly because of the sample sizes and the technique of firing. Samples from this property must be either roasted or pretreated with hydrochloric acid to get rid of the tellurium and sulfides. Secondly, most geologists will take a sample of one pound or so and send this to an assayer who will separate 30 grams of that sample and fire and report the results thereof. Simply put, there is no reflection upon the assayer but upon the person taking the sample and the directions he gives.

First, the assayer should be told that tellurium and sulfides are present. Secondly, in the case of Black Mesa ore, he should be told that there is free gold. I really don't think it will make much difference, for most assayers have an outside man who comes

Proposal
March 5, 1987
Page Two

in early to crush the samples and do the fluxing, using a standard flux afterward. They will screen the material through a 100 or 200 mesh screen and take their 30 grams from this.

I quote from Brown's Book of Assay, "When there is free gold suspected in an ore, the sample should be crushed and screened a minimum of three (3) times, and the screen inspected under a looking glass for fine particles of gold." I have observed and asked questions of many of the leading assay companies in the U.S.A. and not one follows this procedure.

For best results, crush your material to approximately 10 to 30 mesh and fire the material for an extra 15 to 30 minutes. It cannot damage your assay and the larger mesh screen will let more of the free gold through. Most important, use an assayer that can fire one pound or more. That gives you a much better representation of the property.

Black Mesa is like Carling Gold Mine, and all the large deposits in operation today -- it has some problems to be worked out. Most of the problems have been solved; a few of them are:

- (1) A flow sheet should be run to determine if the material should be floated and which flotation agent is to be used.
- (2) If cyanide can be used economically, can the gold be recovered with acidic carbon from thiourea? (Small tests show that the gold can be recovered.)
- (3) Is it economically feasible to use electrowinning to recover the gold while leaching?

Disregarding the recovery system used, the mountain will yield a minimum of 1/10 up to 1/2 ounce per ton. Using the lower figure on a start up leaching operation, a cost of \$8.00 per ton, which is the highest cost per ton out of the six major open pit operation within the U.S.A. today, the mine should produce, to begin with, 500 tons x .1 at \$400 per ounce, which equals \$20,000 per day. The cost of operation would be approximately \$4,852.09 subtracted from \$20,000, which equals \$15,147.91. From that amount subtract a debt service of \$30,000 at 10% per year (\$82.19 per day), which leaves \$15,065.72. Based on a 25-day month, that equals \$376,643 per month, or \$4,519,716 per year (\$376,643 x 12). A schedule of costs is attached to this letter.

It would take approximately 60 days to get into operation. You should have enough funds to sustain you for at least 3 to 6 months (3 months = \$213,906; 6 months = \$427,812). We have

Proposal
March 5, 1987
Page Three

enough material proven at this time to last 540 days, or approximately 1 1/2 years. This was proven by drilling to a depth of 30 feet within the existing pit.

I hope you and your people can move on this soon. I will be looking forward to hearing from you.

Sincerely,

CLAY THORNE COMPANY



Clay R. Thorne

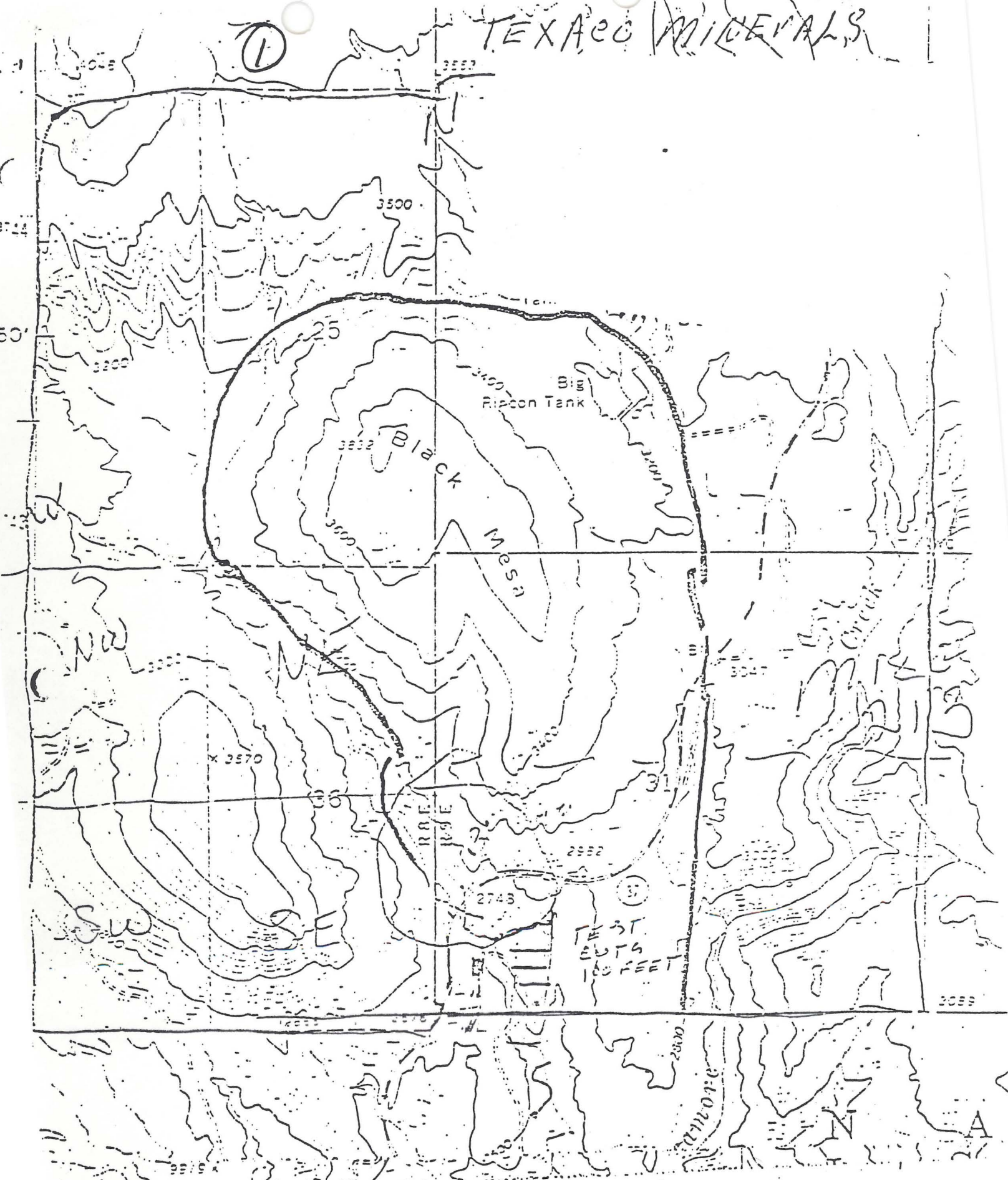
PRODUCTION COSTS

24-HOUR DAY, 25-DAY MONTH, 12-MONTH YEAR

	<u>DAY</u>	<u>MONTH</u>	<u>ANNUAL</u>
LABOR	\$1,960.00	\$ 49,000.00	\$ 588,000.00
LAB COST	40.00	1,000.00	12,000.00
ELECTRICITY	200.00	5,000.00	60,000.00
EQUIPMENT MAINTENANCE	243.06	6,076.39	72,916.68
INSURANCE	84.03	2,100.69	25,208.82
FUEL AND OIL	230.00	5,750.00	69,000.00
TAX AND LICENSE	15.00	375.00	4,500.00
OFFICE EXPENSE	80.00	2,000.00	24,000.00
ROLLING STOCK LEASE	<u>2,000.00</u>	<u>50,000.00</u>	<u>600,000.00</u>
TOTAL	<u>\$4,852.09</u>	<u>\$121,302.08</u>	<u>\$1,455,624.96</u>

TEXAS MINERALS

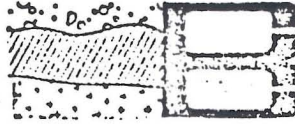
①



BLACK MESA
80-20 ACRE CLAIMS NAT. FOREST

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Bondar-Clegg & Company Ltd.
4420 Canoret Rd.
Cheswa Ontario
Canada K1J 8X4
Phone (613) 749-2220
Telex 05A-3233



BONDAR-CLEGG

Certificate
of Analysis

REPORT #: 416-0050

Sample Number	Au. ppm	Ir ppm	Os ppm	Pt ppm	Ru ppm	Rh ppm	Pd ppm
Black Mesa Ammonia Drop	2	10.5	12	115	120	N/A	N/A
Black Mesa Concentrate	100	10.5	15	120	130	N/A	N/A
Black Mesa Pt + Ir (metal)	15000	11.0	130	11000	1100	N/A	N/A
Black Mesa 8 oz bar	25000	11.0	130	11000	1100	N/A	N/A

C. Hawley

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ACS LABS

ANALYTICAL CONSULTING SERVICES
6251 Corporate Drive • Houston, Texas 77038 • (713) 995 1180

January 29, 1986

Mr. Clay Thorn
501 South Rimview Circle
Payson, Arizona 85341

Subject: Analysis of five samples.

Re: Lab No. 9339

Analytical Data: Results reported in troy oz. per ton.

<u>Sample I.D.</u>	<u>Gold</u>	<u>Silver</u>	<u>Platinum</u>
Mesa	0.11	0.06	0.66
S	5.34	13.53	-
Mixed Ore	6.47	9.33	-
Short drum	4.55	10.85	-
Crown	18.90	13.65	-

Quality Assurance: Samples are analyzed in accordance with EPA, Standard Methods, or ASTM procedures with at least 10% analyzed in duplicate. Serial dilutions and/or process spikes are routinely employed to assure accuracy and precision of the reported data.

ANALYTICAL CONSULTING SERVICES, INC.

Elessa Sommers
Elessa Sommers
Lab Supervisor

ES/bdm.

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A. S. T. LABORATORIES, INC.
- Atomic Spectroscopy & Testing -

7340 E. Sweetwater Ave. * SCOTTSDALE, Az. 85260 * (602) 948-6907
(602) 991-4320

CERTIFIED TEST REPORT NO : 01-0213

Date : 85/12/23

Ast No :

Customer : K.P.LAMARR/ dba Lamarr's Excavating & Trucking

Address : P.O.Box 392

City : Payson

State : Az.Zip : 85547 Country :

Your P.O. : Verbal

Heat No :

Lot No :

S/N : Black-Mesa

Part No :

Material : Ore Concentrate

Job No :

Specification :

CHEMICAL ANALYSIS - Semiquant
Common Elements

PGM's : FGE's : XX)
Noble Elements

Ag :	Ni :	032.75	Ag :	1073/10
Al :	P :		Au :	362 10.49
As :	Pb :	7.94	Pd :	1 0.02
B :	Sb :		Pt :	17 0.49
Ba :	Se :		Ir :	130 3.77
Be :	Si :		Os :	870 25.0
Bi :	Sn :		Rh :	23 0.66
Ca :	Sr :		Ru :	>1000 29.0
Cb :	Ta :	4.96		
Cd :	Ti :			
Co :	W :			
Cr :	V :			
Cu :	Zn :			
Fe :	Zr :			
Ga :	S :	21.9		
Mg :				
Mn :				
Mo :				

Values in : %

* = <.001 % or N.D. !

Values in : ppm

Note ! = ***

N.D. = Not Detected !

1 ppm = .025 Oz.'s / Ton

*** = THE ELEMENTS shown, are in the values indicated, and are present in the sample in an uncombined state, or in physical combination with other material, or in a chemical compound with other elements. Such elements may or may not be recoverable in quantities indicated

Respectfully submitted

J. J. J. J.
A.S.T. Laboratories, Inc.

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- Atomic Spectroscopy & Testing -

7340 E. Sweetwater Ave. * SCOTTSDALE, AZ. 85260 * (602) 948-6907
(602) 991-4320

CERTIFIED TEST REPORT NO : U-0220

Date : 86/01/17
Ast No :
Customer : MINGUS CONSTRUCTORS INC.
Address : P.O.Box 1999
City : Cottonwood State : AZ Zip : 86326 Country :
Your P.O. : Verbal

Lot No : Black Mesa Project Heat No :
Part No : S.N : #1
Job No : Material : White Powder (1.408g)
Specification :

CHEMICAL ANALYSIS - Semiquant
Common Elements

PBM's : PGE's :
Noble Element

Hg	Ni		Hg	0
Al	P		Au	N.D.
As	Pb		Pd	N.D.
H	Sb		Pt	N.D.
Na	Se		Ir	445 29
Be	Bi		Os	N.D.
Si	Sn		Rh	N.D.
Ca	Sr		Ru	N.D.
Cb	Ta			
Ud	Ti			
Co	W			
Cr	V			
Cu	Zn			
Fe	Zr			
Ga	S			
Hg				
Mn				
Mu				

Values in %
* = <.001 % or N.D. ! Values in 1 !
Note 1 - ***

N.D. = Not Detected ! 1 ppm = .029 U.S. / Ton

*** = THE ELEMENTS shown, are in the values indicated, and are present
the sample in an uncombined state, or in physical combination with
other material, or in a chemical compound with other elements.
Such elements may or may not be recoverable in quantities indicat

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[Signature]
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- Atomic Spectroscopy & Testing -

10 E. Sweetwater Ave. * SCOTTSDALE, Az. 85260 * (602) 948-6907
(602) 991-4320

CERTIFIED TEST REPORT NO : U-0221

Date : 86/01/17
Ast No :
Customer : MINGUS CONSTRUCTORS INC.
Address : P.O.Box 1999
City : Cottonwood State : Az.Zip : 86326 Country :
Your P.O. : Verbal
Lot No : Black Mesa Project Heat No :
Part No : S/N : #2
Job No : Material : Zn Leach
Specification :

CHEMICAL ANALYSIS - Semiquant
COMMON ELEMENTS

PPM's : PGE's : XX
Noble Elements

Ag	Ni	Ag	19.55
Al	P	Au	163 4.1
As	Pb	Pd	Trace
B	Sb	PL	4 .2
Ba	Se	Ir	89
Be	Si	Os	1238
Bi	Sn	Rh	23
Ca	Sr	Ru	1682
Cb	Ta		
Cd	Tl		
Co	W		
Cr	V		
Cu	Zn		
Fe	Zr		
Ga	S		
Mg			
Mn			
Mo			

Values in % Values in ppm
* = <.001 % or N.D. ! Note ! = **

N.D. = Not Detected !

1 ppm = .029 Oz.'s / Ton

** - THE ELEMENTS shown, are in the values indicated, and are present in the sample in an uncombined state, or in physical combination with other material, or in a chemical compound with other elements. Such elements may or may not be recoverable in quantities indicated.

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A. S. T. LABORATORIES, INC.
- Atomic Spectrometry & Testing -

10 E. Sweetwater Avn. * SCOTTSDALE, Az. 85260 * (602) 948-6407
(602) 991-4320

CERTIFIED TEST REPORT NO : U-0222

Date : 86/01/17
 Ast No :
 Customer : HINGUS CONSTRUCTORS INC.
 Address : P.O.Box 1999
 City : Cottonwood State : Az.Zip : 86326 Country :
 Your P.O. : Verbal

Lot No : Black Mesa Project Heat No :
 Part No : S/N : #3
 Job No : Material : Solution Residue(2.801g)
 Specification :

CHEMICAL ANALYSIS - Sequential
Common Elements

PGM's : PGE's : XXX
Noble Elements

Ag	.003-.01	Ni	.01-.03	Ag	27
Al	1.-5.	P	.05-.3	Au	536 15.71
As	.005-.03	Pb	.01-.05	Pd	Trace
B	.005-.03	Sb	*	Pt	45 1.32
Ba	.005-.03	Se	*	Ir	490 14.4
Be	.005-.03	Si	.5-3.	Os	15700
Bi	.03-.1	Sn	.005-.03	Rh	268 7.48
Ca	.5-3.	Sr	.03-.1	Ru	>6000
Cb	Trace	Ta	Trace		
Cd	*	Ti	.005-.03		
Co	.01-.05	W			
Cr	.001-.005	V	.03-.1		
Cu	.01-.05	Zn	.5-3.		
Fe	1.-5.	Zr	.005-.03		
Ga	*	S			
Mg	1.-5.				
Mn	.5-3.				
Mo	*				

Values in % Values in ppm
* = <.001 % or N.D. ! Note ! = **

N.D. = Not Detected !

1 ppm = .029 Oz.'s / Ton

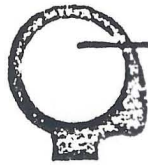
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[Signature]
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J. B. LABORATORY

Specialists In Precious Metal Recovery

2702 S. 45TH ST. PHOENIX, AZ 85034 (802) 966-8103

PROJECT Clay Thon

PP _____

SAMPLE #	DATE	PROCESS TO RUN	WT TO USE	CON WT	Capel DOR'E WT	DRILL WT	VOL ML
1773	1/31/80		6.9032 gm		.0614		50

ELEMENT	PPM	OZ PER TON HD ORE	OZ PER TON CON	OZ PER TON DOR'E	VALUES
AU	87			18.164	.908 gm
OS	.14			.039	
PT	.36			.075	
AG	3140			655.59	AG - → 32.75
Pd	.17			.035	
IR	1.06			.22	.01 gm
RU	.29			.06	
Rh	.24			.05	

COMMENTS

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HUNTER MINING LABORATORY, INC.

994 GLENDALE AVENUE

SPARKS, NEVADA 89431

TELEPHONE (702) 358-6227

REPORT OF ANALYSIS

Submitted by:

Date: August 21, 1986

HOMESTAKE MINING COMPANY
330 CONEY ISLAND DRIVE
SPARKS, NEVADA 89431

Laboratory number: 0

Analytical Method: ICP/MS
Sem. 1-Quant.

Your Order Number:

Report on: 1 Samples, cast

Element	parts per million	Element	parts per million
Sample No. Cast		Mercury	
Aluminum	270	Molybdenum	
Antimony	10	Nickel	3
Arsenic	160	Niobium	
Barium	8	Potassium	-
Beryllium	-2	Rubidium	
Bismuth	-2	Scandium	
Cadmium	7	Silver	
Calcium	-2000	Sodium	
Chromium	320	Strontium	
Cobalt	480	Thallium	
Copper	11,000	Tin	
Gold	850	Titanium	
Iron	+370,000	Tungsten	
Lead	590	Vanadium	
Lithium	-2	Yttrium	
Magnesium	65	Zinc	
Manganese	2800	Uranium	

52.50 ¹/₁

14.00

03 Ton

24.99

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HUNTER MINING LABORATORY, INC.

Vern L. Hallmark

ppm = parts per million. oz/ton = troy ounces per ton of 2000 pounds avoirdupois. percent = parts per hundred. fineness = parts per thousand. ppb = 0.001 ppm. Read - as "less than". 1 oz/ton = 34.286 ppm. 1 ppm = 0.0001% = 0.029167 oz/ton. 1.0% = 20 pounds/ton.

HUNTER MINING LABORATORY, INC.

994 GLENDALE AVENUE

SPARKS, NEVADA 89431

TELEPHONE: (702) 358-6227

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*Results of Dore beads
Fire Lab assayed at Claybourne's*

August 8, 1986

LANCE

Sample Mark	Dore' wt. milligrams	Gold- 1 AT milligrams	Gold-1/2 AT milligrams
7757 AJ	0.031 = .6203 PT	0.018 = .1803 PT	
7891 AJ	0.042 = .8403 PT		0.022 = .4403 PT .2403 AT = .4803

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PHASE I OF BLACK MESA 12
MINING PROJECT
LOCATION OF OPEN PIT EXCAVATIONS

I THE MINERALIZED AREA IS 1800' X 2400'

II ① Pit # 1 is approximately 1200' So of Highway 87 ONE DIRECTION + 1600' FROM 7 EAST THE OTHER DIRECTION.

② Pit # 2 is 330' So in ONE DIRECTION + 1400' EAST THE OTHER DIRECTION.

III APPROXIMATELY 20,000 CU YDS WILL BE EXCAVED FROM Pit # 1 AND 11,000 CU YDS FROM # 2

IV ALL SAGUARO AND DESERT PLANTS WILL BE RELOCATED OUTSIDE OF WORK AREA.

V A CATTLE GUARD WILL BE INSTALLED AT THE MAIN GATE

VI COLOR CODE

① ORANGE = EXISTING OLD ROADS

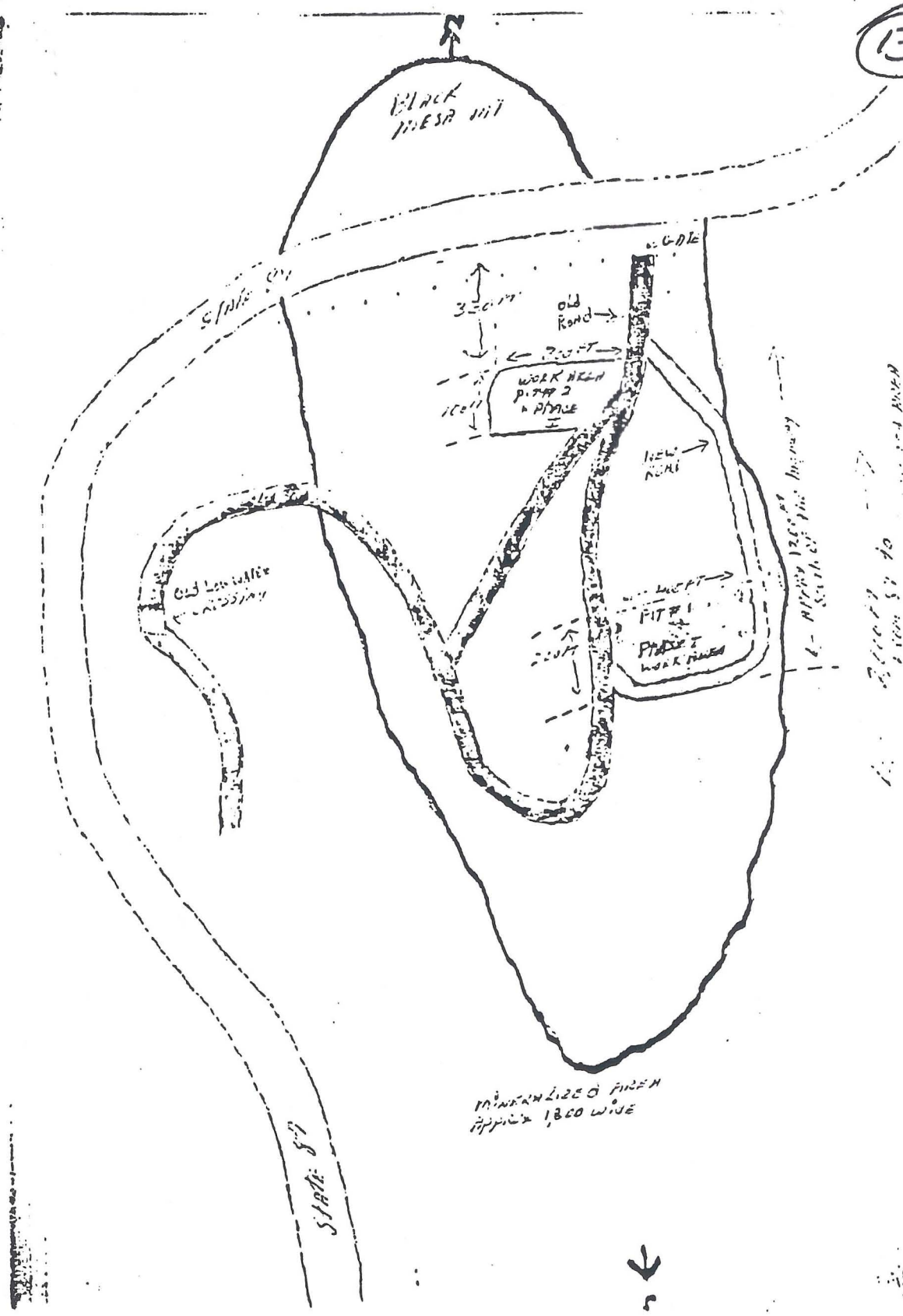
② GREEN = Pit # 1

③ YELLOW = Pit # 2

④ BLUE = NEW HAUL ROAD

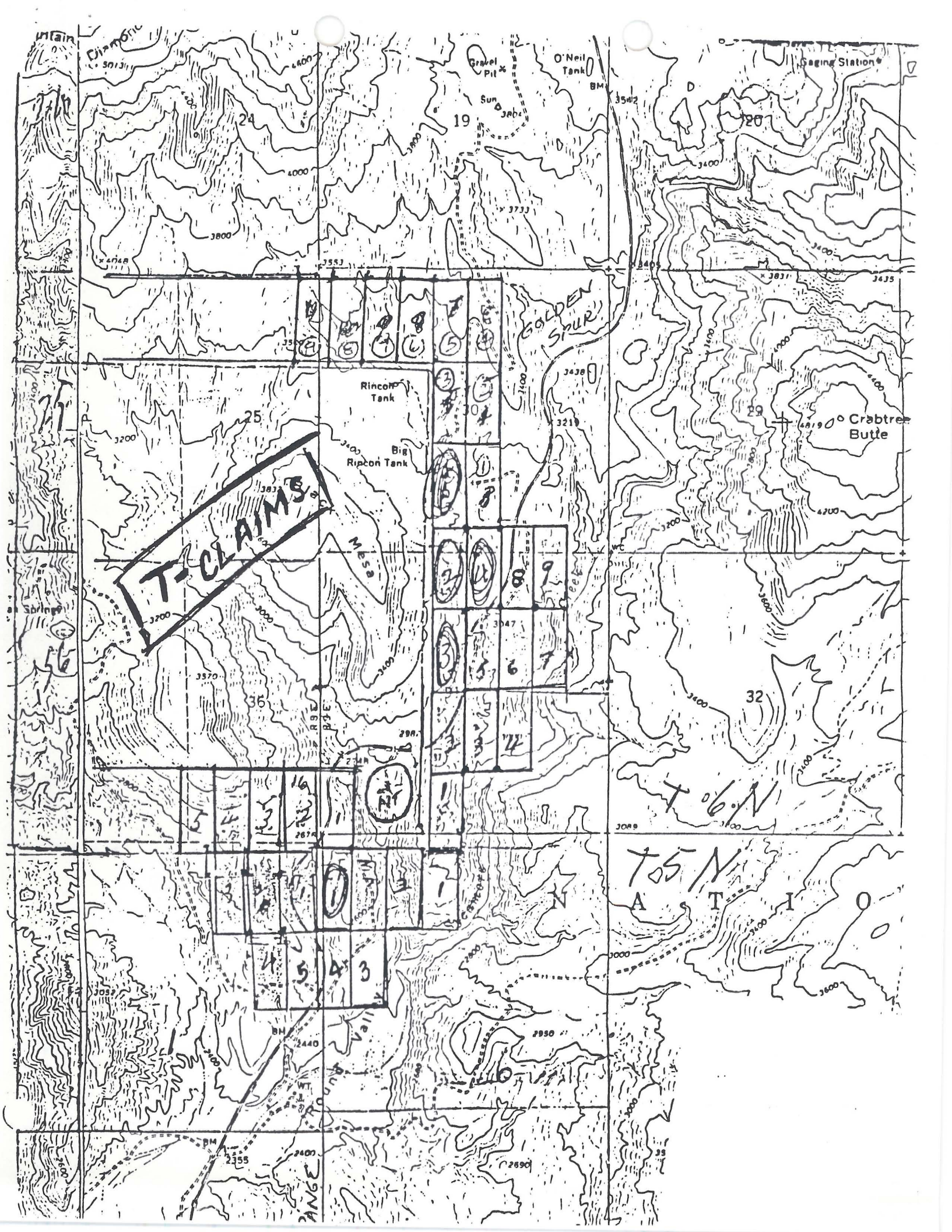
⑤ BLACK = OUTLINE OF MINERALIZED AREA.

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APPROX 1200 FT IMPROV
FROM S7 TO







United States Department of the Interior

BUREAU OF MINES

RENO RESEARCH CENTER

1605 EVANS AVENUE
RENO, NEVADA 89512

October 1, 1985

Mr. Clay Thorne
Southwestern States Investment Corp.
P.O. Box 392
Payson, AZ 85547

Dear Mr. Thorne:

We have completed the examination and analyses on the samples you submitted September 4, 1985. The samples you submitted are identified as follows:

- #1--Ore
- #2--Concentrate
- #3--Os;PJ powder
- #4--White metal
- #5--White powder
- #6--Gold/platinum balls
- #7--Tubular gold
- #8--Balls

These analyses are based on the sample(s) as received. The Federal Bureau of Mines claims no knowledge of the geographic source, type of deposit, method of sampling, or means of sample preparation.

Sincerely,


Kenneth G. Broadhead
Research Supervisor

Enclosure

NOTE REPORT # 4 SHOWING MAKEUP OF IRON
BALLS & PLATINUM

#1

Fire Assay ICP LABORATORY REPORT

Submitted by: Bronhend

Date Completed: 9/24/85

Date Submitted: 9/14/85

Analyst: Wang

Reported as: 02/10.0 (unless otherwise stated)

PZ-440

SAMPLE NUMBER

Element	#1	#1	#2	#2	#3	#3	#4				
Ac											
Al											
As											
Au	.002	.002	2.233	2.245	.036	.044	1.237				
B											
Ba											
Be											
Bi											
Ca											
Cd											
Co											
Cr											
Cu											
Fe											
Ga											
Hg											
K											
La											
Li											
Mg											
Mn											
Mo											
Na											
Nb											
Ni											
P											
Pb											
Pd	<.001	<.001	.004*	.004*	.006*	<.004*	<.004				
Pt	.002*	.002*	.007*	.011*	.010*	.007*	.029				
Sb											
Se											
Si											
Sn											
Sr											
Ta											
Tb											
Ti											
U											
V											
W											
Y											
Zn											
Zr											

* close to detection limit

INDUCTIVELY COUPLED PLASMA ANALYSIS

SUBMITTED BY: Bronthead
SAMPLE SET NO.: P2-440

ANALYST: W BARRY

DATE SUBMITTED: 9/1/85
DATE COMPLETED: 9/12/85

SAMPLE	AG	AL	AS	BA	BE	BI	CA
#5.	99	0.21%	< 60	28	0.54	< 60	53.7%

SAMPLE	CD	CO	CR	CU	FE	PO	LA
#5.	43	17	500	41	0.24%	840	37

SAMPLE	LI	MG	MN	MO	NA	NB	NI
#5.	* 12	0.92%	71	120	1.1%	28	440

SAMPLE	P	PB	SB	SN	SR	TE	TI
#5.	< 200	84	< 60	44	86 *	40	100

SAMPLE	V	W	Y	ZN	ZR
#5.	* 24 *	95	8.4	0.13%	63

SILVER

RESULTS ARE REPORTED IN PPM UNLESS OTHERWISE INDICATED
(UG/ML=MICROGRAMS/ML) G=GRAMS/L)

NOTE: < INDICATES THAT THE RESULT IS LESS THAN THE GIVEN VALUE
* INDICATES THAT THE RESULT IS NEAR THE DETECTION LIMIT
AND MUST BE INTERPRETED ACCORDINGLY

Mineralogy Lab Report

Sample No. PZ-440

Date 9/4/85

Submitted by: Broadhead

*65
7*

#1 Na, Si, Al, mg, Fe (need thin section to establish rock name)

#2 Pb, Cu and minor Ag

#6 Fe 1-2 mm

#7 (Au) and trace metal

#8 Fe and Pt-Fe 1-2 mm

SC-711



Analyst: Law Date 9/6/85