



CONTACT INFORMATION
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Arizona Geological Survey
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Tucson, Arizona 85701
520-770-3500
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James Doyle Sell Mining Collection

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RECEIVED

FEB 8 1994

February 6, 1994

EXPLORATION DEPARTMENT

Mr. J. D. Sell
ASARCO
1150 North 7th Avenue
P.O. Box 5747
Tucson, Arizona 85703

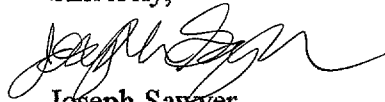
Dear Mr. Sell:

On September 23, 1993 I sent information regarding the Apache Chief mining property to Mr. Vikre in your Reno office. Subsequently the data was sent to your office in October 1993. Since our phone conversation in late December I have not received any communications from yourself or ASARCO.

As a result, I interpret your silence to be a lack of interest in the property and request the prompt return of the submitted data.

I will appreciate your attention to this matter.

Sincerely,



Joseph Sawyer

cc: Jeffrey S. Samuels

RECEIVED

OCT 22 1993

EXPLORATION DEPARTMENT

Quentin J. Browne
ASARCO Incorporated
510 East Plumb Lane
Reno, NV. 89502


October 12, 1993

Dear Mr. Browne:

I received your letter today regarding a possible site visit to the Apache Chief property. I have enclosed two original copies of our proposed site visit agreement. If you decide to visit the site please complete and return one of the two original copies enclosed. Please call if you require any changes or modifications to the site visit agreement.

I will look forward to your reply.

Yours Truly,

A handwritten signature in black ink, appearing to read "Joseph A. Sawyer", written over the typed name.

Joseph A. Sawyer

cc: Jeffrey S. Samuels

Joe Sawyer
301 Fifth Place
San Manuel, Az.
85631
Ph. 602-385-2827

P. G. Vikre
Manager
ASARCO
510 East Plumb Lane
Reno, Nevada 89502

September 23, 1993

Dear Mr. Vikre:

Thank you for the signed confidentiality agreement. Enclosed is a summary report on the Apache Chief project. If you are interested we have some additional information on the surrounding land status. Also we have splits of some samples which could be sent to you on a short notice.

If you have any questions please do not hesitate to call me and thanks again for ASARCO's interest in our property.

Sincerely,


Joe Sawyer

Enclosures: Apache Chief Mine Summary Reporte

cc: Jeffrey S. Samuels

called 9/28 1st message

SITE VISIT AGREEMENT

This agreement effective 10-4-93 between Jeffrey S. Samuels and Joseph A. Sawyer, whose addresses are 5089 N. Edenburgh Way, Boise, Idaho 83703 and 301 5th Place, San Manuel, Arizona 85631 respectively (hereinafter referred to as "Owners"), and ASARCO, Inc. a _____ corporation whose address is 510 East Plumb Lane, Reno, NV 89502 (hereinafter referred to as ASARCO).

WITNESSETH:

For valuable consideration, the receipt and adequacy of which are acknowledged, the parties agree to the following terms:

I. Site Visit

- A. ASARCO is granted permission by the Owners to make one (1) site visit to the Property, said Property being described in Exhibit A attached to this Agreement. The visit may occur anytime between the effective date of this Agreement and December 31, 1993. The term of this agreement is from the effective date to December 31, 1993.
- B. The duration of the visit shall be for one day in daylight hours only.
- C. The Owners do not grant any rights, privileges or permissions, directly or implied, to ASARCO, to mine or explore for minerals on the Property.
- D. ASARCO may take up to 30 rock samples for the purpose of assaying, each sample weighing no more than 10 pounds for a total of 300 pounds or 30 samples, whichever is smaller.
- E. ASARCO may take the above mentioned samples at locations on the Property it deems appropriate.
- F. Any data, including but not limited to assay and geologic that ASARCO develops from the site visit shall be the property of the Owners. ASARCO may retain copies of such data for its own use.
- G. ASARCO is responsible for all costs it may incur during the course of the site visit.
- H. ASARCO is directed to confine vehicular traffic to established roads, jeep trails, etc. on the Property and in the general area and is also directed to abide by all applicable laws, rules and regulations of local, state and federal governmental agencies.
- I. Any disturbance or damage that ASARCO creates on the Property during the course of the site visit will be the sole responsibility of ASARCO. Additionally, ASARCO will be required to repair any disturbance or damage it creates to the satisfaction of the Owners.

EXHIBIT A

To that certain Site Visit Agreement
between
Jeffrey S. Samuels, Joseph A. Sawyer
and
ASARCO

The "Property" that is the subject of the Site Visit Agreement shall encompass all original locations, amendments and relocations of the unpatented lode and placer mining claims listed below, all of which mining claims are situated in La Paz County, Arizona, the location notices of which are of record in the official records of the recorder of La Paz County and the Arizona State Office of the United States Bureau of Land Management as follows:

<u>CLAIM NAME</u>	<u>TYPE</u>	<u>BLM SERIAL #</u>
Kara #1	Lode	AMC 314173
Bethany #1	"	AMC 314171
Rachel #1	"	AMC 314174
Joey #1	"	AMC 314172
Jennifer #1	"	AMC 314862
Sarah #1	"	AMC 314863
Scott #1	"	AMC 314864
Carmen #1	"	AMC 314861
Paula #1	Placer	AMC 319240
Chris #1	"	AMC 319241

Site Visit Agreement - between Jeff Samuels, Joe Sawyer and ASARCO

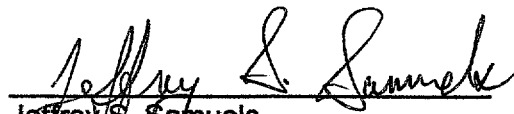
II. Indemnification

- A. ASARCO shall hold the Owners harmless and fully indemnify the Owners against all claims or demands of any kind or nature which may be made upon the Owners or against the Property for, or on account of any debt or expense contracted or incurred by ASARCO in conducting its activities pursuant to this Site Visit Agreement as well as against any and all negligent or willful acts and omissions of ASARCO, its agents, contractors or employees, in conducting its activities pursuant to this Site Visit Agreement.
- B. ASARCO shall defend and save the Owners harmless and fully indemnify them as to any liability for, or on account of, injury to, or death of, any person or damage to any property sustained while this Site Visit Agreement is in effect, resulting from any such negligent or willful act or omission of ASARCO, its agents, contractors or employees. ASARCO assumes full responsibility in case of accident to ASARCO, its agent or any person employed on the Property by ASARCO and agrees to hold Owners harmless from any suits for injury or accident arising out of employment. This provision shall survive termination of this Site Visit Agreement with respect to any liability incurred prior thereto. ASARCO acknowledges it is fully aware of the hazards which may be present during the course of the site visit to the Property.

The parties have executed this Agreement the day and year first above written.

OWNERS

Dated 10-4-93


Jeffrey S. Samuels

Dated 10-12-93


Joseph A. Sawyer

ASARCO

Dated _____

P. G. Vikre
Its:

SITE VISIT AGREEMENT

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- H. ASARCO is directed to confine vehicular traffic to established roads, jeep trails, etc. on the Property and in the general area and is also directed to abide by all applicable laws, rules and regulations of local, state and federal governmental agencies.
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Site Visit Agreement - between Jeff Samuels, Joe Sawyer and ASARCO

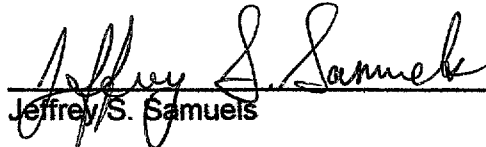
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The parties have executed this Agreement the day and year first above written.

OWNERS

Dated 10-4-93


Jeffrey S. Samuels

Dated 10-12-93


Joseph A. Sawyer

ASARCO

Dated _____

P. G. Vikre
Its:

EXHIBIT A

To that certain Site Visit Agreement
between
Jeffrey S. Samuels, Joseph A. Sawyer
and
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<u>CLAIM NAME</u>	<u>TYPE</u>	<u>BLM SERIAL #</u>
Kara #1	Lode	AMC 314173
Bethany #1	"	AMC 314171
Rachel #1	"	AMC 314174
Joey #1	"	AMC 314172
Jennifer #1	"	AMC 314862
Sarah #1	"	AMC 314863
Scott #1	"	AMC 314864
Carmen #1	"	AMC 314861
Paula #1	Placer	AMC 319240
Chris #1	"	AMC 319241

COPY

APACHE CHIEF MINE
QUARTZSITE ARIZONA
SUMMARY REPORT

APACHE CHIEF MINE

LOCATION:

Approximately 7 miles East and 2 1/2 miles South of Quartzite Arizona in LaPaz County. Access is by dirt road by taking the Gold Nugget Road Exit off Interstate 10. Township 3 North, Range 18 West, Section 12, North East 1/2 and Section 1, South East 1/2.

LAND STATUS:

Public, Federal land administered by the BLM.

CLAIMS:

8 Full sized lode claims and 2 overlapping association placers for a total of 160 acres.

PRIMARY METAL:

Copper

MINOR METALS:

Gold, Lead, Zinc, Silver

MINING HISTORY:

Shaft and tunnel operations with extensive underground workings. Total estimated and recorded production from intermittent operations, from at least the early 1860's through 1967, would be some 2100 tons of ore averaging about 11% Cu, 12oz. Ag/ton, and 0.03 oz. Au/ton. About 700 lbs. of Lead was also produced. From February 1974 until April of 1991 the property was withdrawn from mineral entry. The property was staked by Messrs. Samuels and Sawyer in April of 1991.

RECENT WORK:

Sampling conducted on surface has revealed the presence of 0.5% to 1.0% Copper. Underground stope sampling has shown copper grades between 1.7% to 6.9% Copper with Silver grades averaging 7 oz/ton.

SURFACE STOCKPILE:

Two stockpiles on surface contain significant ore grades. The main surface ore stockpile averages 3%+ Copper and 3 oz/ton+ Silver. There is approximately 2,000 tons of this material at minus 6".

This material is readily available for metallurgical testing.

WATER SUPPLY:

There is a well on the claims which is noted on the U.S.G.S. area map. The well has not been sampled or tested by the owners.

ROADS:

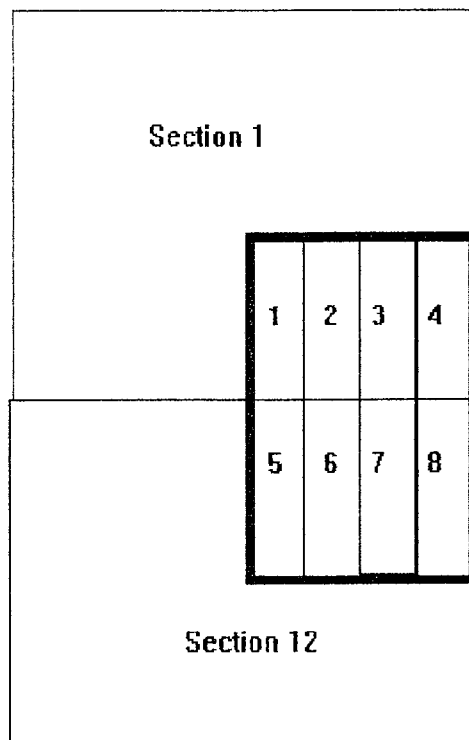
There are several roads present on the property. These roads are easily accessible and could serve as drill roads.

PROPERTY OWNERSHIP:

The property is a 50/50 ownership between Messrs. Samuels and Sawyer.

Jeffrey S. Samuels
5089 N. Edinburgh Way
Boise, Id. 83703

Joseph A. Sawyer
301 Fifth Place
SanManuel, Az. 85631

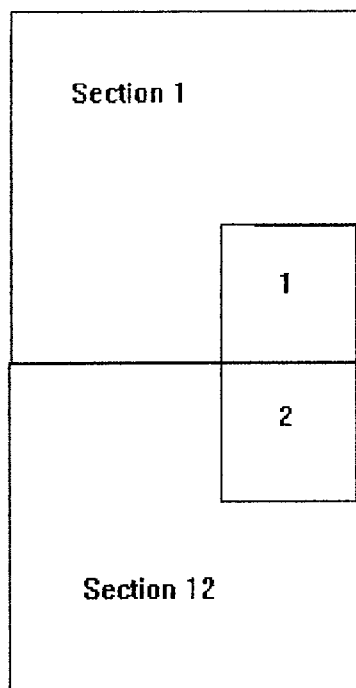


**Apache Chief Mine
Lode claims**

- | | |
|----------------|-----------|
| 1. Jennifer #1 | AMC314862 |
| 2. Sarah #1 | AMC314863 |
| 3. Kara #1 | AMC314173 |
| 4. Rachel #1 | AMC314174 |
| 5. Scott #1 | AMC314864 |
| 6. Carmen #1 | AMC314861 |
| 7. Bethany #1 | AMC314171 |
| 8. Joey #1 | AMC314172 |

**Township 3N, Range 18W
Gila and Salt River Meridian**

Note: Not to Scale

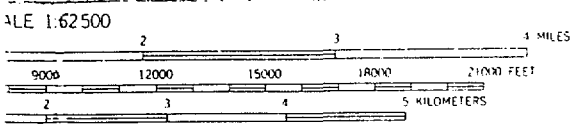
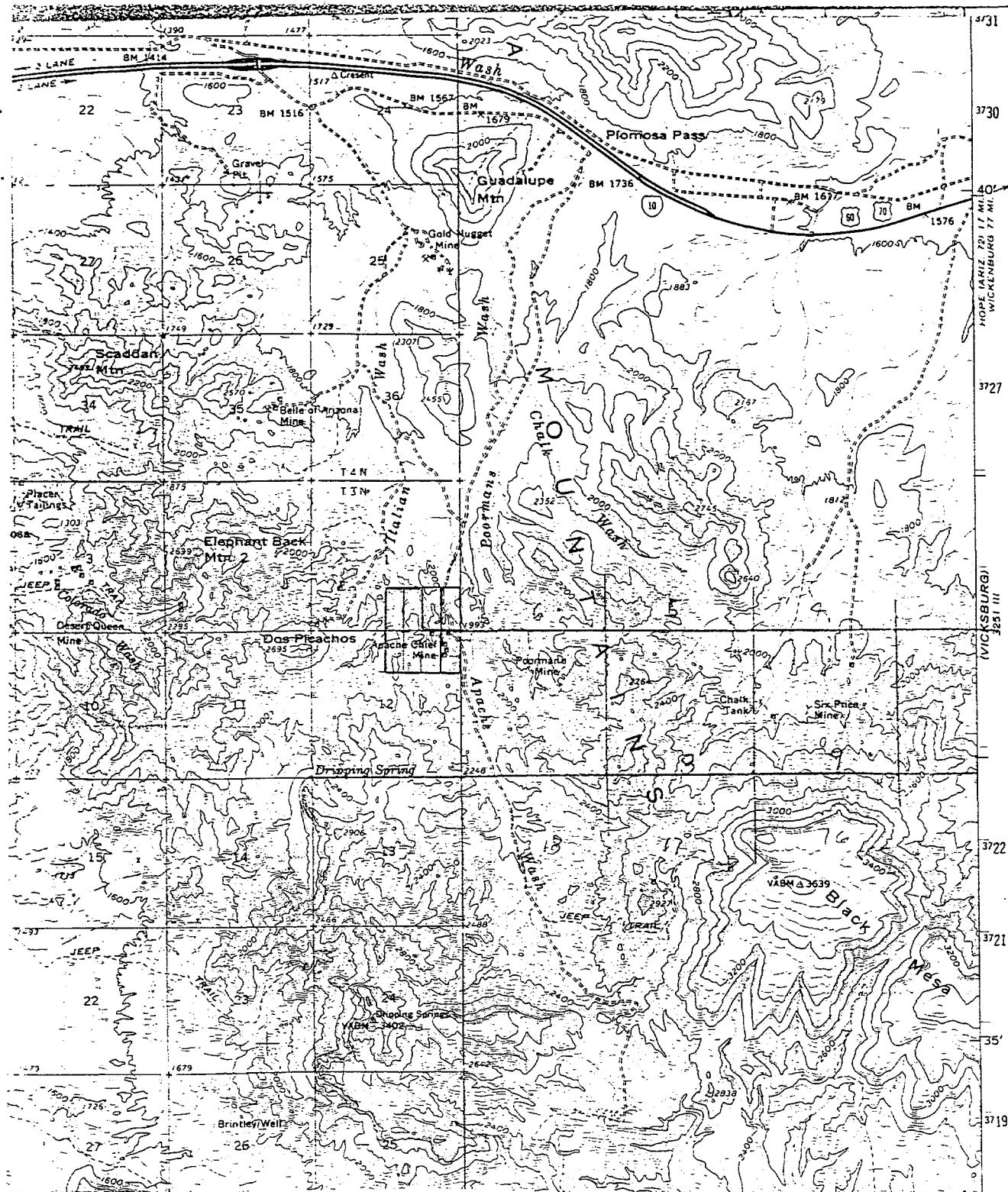


**Apache Chief Mine
Placer Claims**

- 1. Chris #1 AMC319241
- 2. Paula #1 AMC319240

**Township 3N, Range 18W
Gila and Salt River Meridian**

Note: Not to scale



QUADRANGLE LOCATION

ROAD CLASSIFICATION			
Heavy-duty	—————	Light duty	—————
Medium duty	—————	Unimproved dirt	—————
Interstate Route	—————	U. S. Route	—————
		State Route	—————

QUARTZSITE, ARIZ.
N3330—W11400/15

NATIONAL MAP ACCURACY STANDARDS
NAD 83
MAF 1:62,500 SYMBOLS IS AVAILABLE ON REQUEST

1962
AMS 3151 II—SERIES V798

INDEPENDENT ASSAY RESULTS

The following sheets contain all the assay results and geologic interpretation that was supplied to the owners by a Nevada based exploration company. The site investigation was performed with the owners approval during December 1991. The owners neither indorse or dispute this independent geologic interpretation.

TUE

15000 W. 6TH AVE., SUITE 300
GOLDEN, COLORADO 80401
PHONE: (303) 277-1687

BARRINGER LABORATORIES INC.

5301 LONGLEY LANE
BUILDING E. SUITE 178
RENO, NEVADA 89511
PHONE: (702) 828-1158Apache Chief
Geochemistry

20-Dec-91

Page: 1
Copy: 1 of 2
Set: 1Attn: [REDACTED]
Project: Apache Chief

PO #:

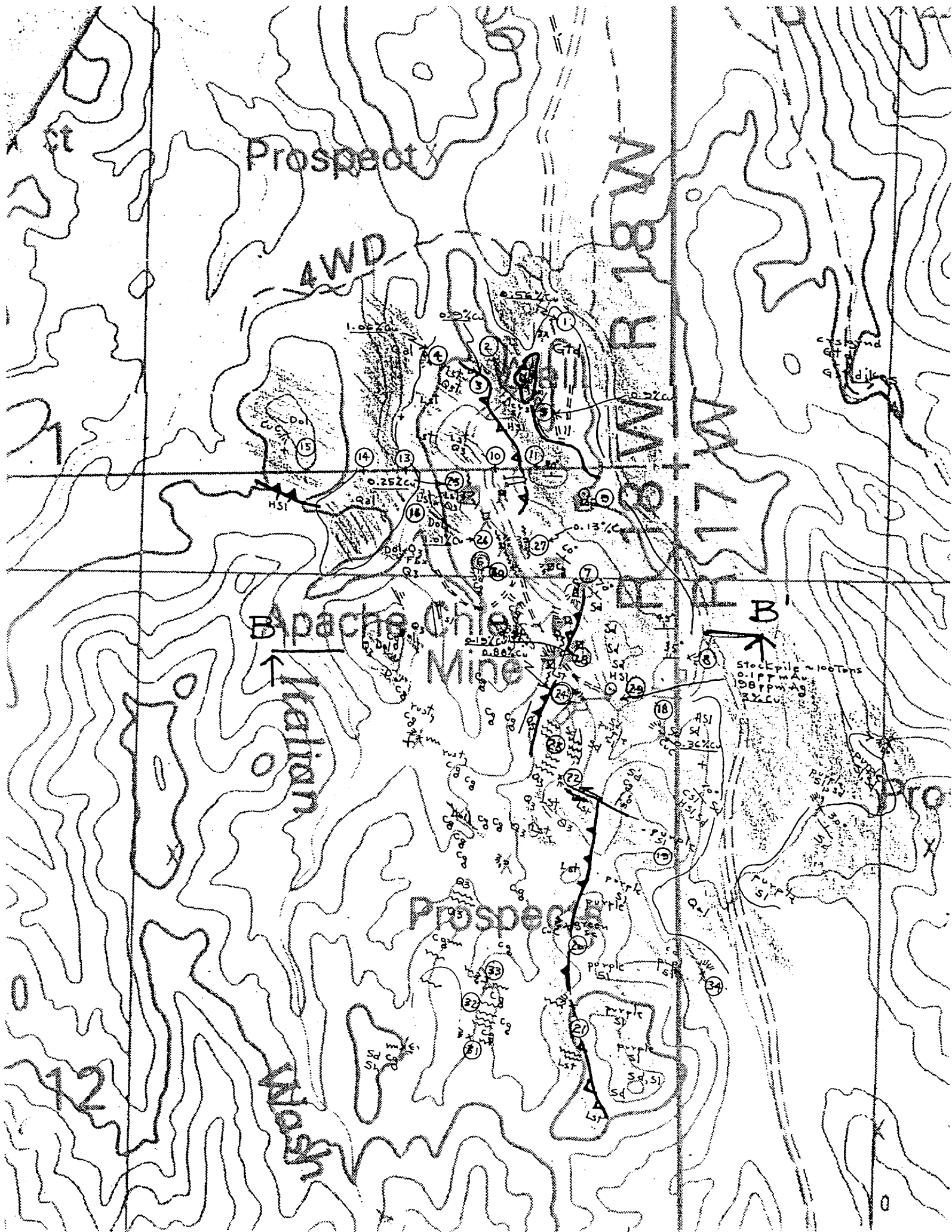
Received: 13-Dec-91 15:59

Job: 913105R

Status: Final

Sample Type: Rock Chip

Sample	Au FA/AA Pack ppb	Ag AA ppm	Cu Bs Metal ppm	Pb Bs Metal ppm	Zn Bs Metal ppm
AP 1-1	<2	0.5	5600	4	15
AP 3-1	<2	2.2	9100	10	19
AP 4-1	<2	2.0	10600	3	8
AP 5-1	<2	2.3	9400	4	7
AP 6-1	<2	0.2	168	28	43
AP 8-1	<2	<0.1	141	3	7
AP 9-1	<2	<0.1	124	2	11
AP 16-1	<2	<0.1	34	21	7
AP 18-1	<2	9.4	3600	1	1
AP 18-2	<2	1.2	280	2	22
AP 20-1	<2	0.7	510	29	32
AP 21-1	<2	<0.1	98	7	21
AP 22-1	<2	3.0	185	9	11
AP 22-2	<2	<0.1	131	2	3
AP 23-1	<2	<0.1	152	1	3
AP 24-1	17	5.0	8800	3	110
AP 25-1	<2	1.5	2480	1	2
AP 26-1	11	2.1	10100	101	21
AP 27-1	6	1.9	1310	9	36
AP 28-1	3	2.2	1890	1	4
AP 29-1	114	198.0	30000	18	25
AP 30-1	29	29.7	17400	45	51
AP 31-1	13	18.4	300	2690	1010
AP 31-2	<2	0.3	204	19	17
AP 32-1	<2	0.2	121	23	24
AP 33-1	<2	2.2	192	97	95
AP 34-1	<2	<0.1	104	4	6



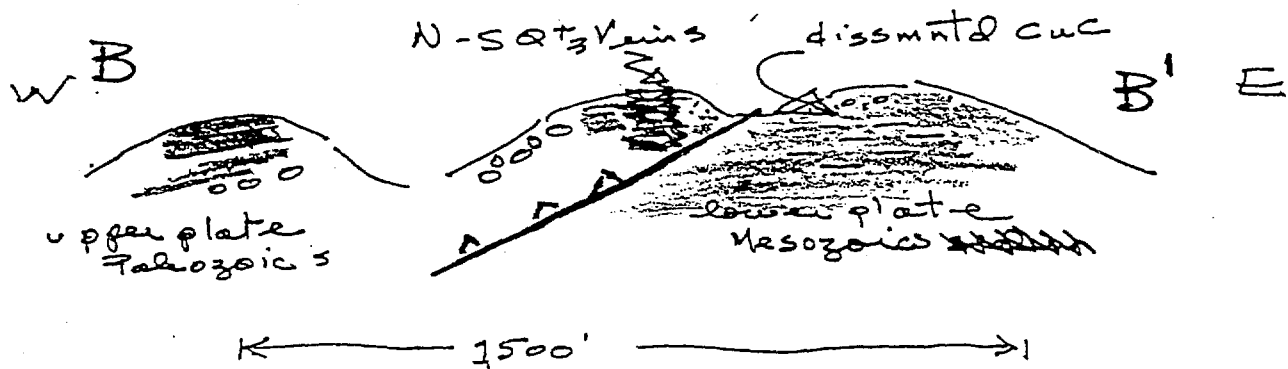
SECTION BB'

APACHE CHIEF

SE Sch 1

NE Sch 12

T3N R18W



Mineralization

hematite
Vein Qtz_3 w/ Cu_2 , limonite, goethitic limonite
in Qtz_3 sandstone & siltstone - lower plate
also in Dolomite of upper plate

At (18) there is some disseminated Cu_2 mineralization in qtz_3 sandstone.

N60°W
There are sheeted qtz_3 veins at (23) in lower plate qtz_3 sandstone.

There are sheeted N60°W qtz_3 veins at 31, 32, 33 in upper plate conglomerate

OWNERS ASSAY RESULTS

The following sheets contain all the assay results for the samples collected by the owners since March 1991.

ANALYSIS REPORT



American
Assay
Laboratories
Inc.

RENO: 1500 Glendale Ave, SPARKS 89431
P.O. Box 71060, RENO 89570
Ph (702)356 0606 Fax 3561413

AMERICAN ASSAY LABORATORIES

REPORT : SP 022247 1 Page(s) Date : 04/15/93

Client reference : 236863/881

Cost code :

Copies to : JEFFREY S. SAMUELS

Samples : Type Preparation code
Received : 04/07/93 -----

Analysis	Code	Quality Parameter	Detection	Units
Au	FA30	Acc. 15 %	5	ppb
Au(R)	FA30	Acc. 15 %	5	ppb
Cu	D410HF	Prec.10 %	2	ppm

ANALYSIS REPORT

American
Assay
Laboratories
Inc.

REPORT : SP 022247

Page 1 of 1

Sample	Au ppb	Au(R) ppb	Cu ppm
236863	5		50
236866	<5		81
236867	20		2545
236868	<5		79
236869	<5		55
236870	<5		36
236871	12		4437
236872	<5		54
236873	63		3.05%
236874	15		2.30%
236875	160	150	2.34%
236876	54		6.96%
236877	<5		169
236878	388	401	3.01%
236879	193		1.73%
236880	6		2798
236881	8	9	1473

Please refer to the cover sheet for further analysis details.

CLIENT: JEFFREY S. SAMUELS
CLIENT REF:
ANL REF: SP022247
METHOD: ANL 01-0

1500 GLENDALE AVE. SPARKS
NEVADA 89431
TELEPHONE (702) 356 0606
FACSIMILE (702) 356 1413

ELEMENT SAMPLES	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Th ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm
236863	0.1	2.07	2	8	172	2	4.25	0.2	4	4	15	1.8	2	0.72	35	0.49	497	1	0.04	2	0.05	3	2	63	12	0.01	5	10	1	42
236866	0.1	0.74	5	4	135	2	1.47	0.2	3	9	45	1.82	2	0.41	40	0.07	273	1	0.01	8	0.07	50	2	21	24	0.01	5	7	1	21
236867	0.8	0.96	185	13	124	2	0.42	0.2	1	7	2390	4.78	2	0.45	45	0.09	111	11	0.05	3	0.05	13	2	26	18	0.01	5	35	1	35
236868	0.1	0.7	3	5	118	2	4.47	0.2	8	8	50	2.13	2	0.29	9	0.34	659	1	0.02	8	0.03	4	2	76	2	0.01	5	8	1	14
236869	0.1	1.48	21	8	56	2	3.51	0.2	8	5	29	2.37	2	0.29	7	1.32	459	2	0.06	4	0.05	6	2	68	7	0.01	5	11	1	59
236870	0.1	2.55	4	6	102	2	2.03	0.2	9	6	22	3.03	2	0.5	25	1.99	420	1	0.03	7	0.07	3	2	46	11	0.01	5	17	1	100
236871	1.2	0.22	21	9	12	2	0.06	0.2	9	15	4256	4.73	2	0.06	2	0.04	192	4	0.04	9	0.01	7	2	46	2	0.01	5	7	1	6
236872	0.5	0.49	8	7	56	2	5.05	0.2	6	9	37	2.04	2	0.23	29	0.15	586	2	0.02	8	0.04	19	2	84	8	0.01	5	4	1	35
236873	348	0.32	2	2	22	5	14.3	1.1	5	7	21916	1.64	2	0.06	5	3.45	417	7	0.01	14	0.04	15	3	233	2	0.01	5	7	1	41
236874	2.9	0.16	7	4	15	6	0.24	0.2	4	23	20160	2.86	2	0.06	2	0.05	191	14	0.01	15	0.00	6	4	17	2	0.01	5	16	1	4
236875	3.5	2.2	4	2	49	23	1.34	1	24	35	18172	7.01	2	0.13	7	1.88	1099	225	0.05	82	0.04	23	5	48	2	0.01	7	36	1	118
236876	13.3	0.05	29	4	8	2	0.1	0.2	5	22	58249	5.78	3	0.02	6	0.04	157	139	0.03	17	0.00	8	2	9	2	0.01	5	7	1	1
236877	0.3	0.67	363	5	134	2	5.61	0.7	6	8	116	2.18	2	0.31	19	2.45	401	1	0.04	11	0.06	15	2	400	8	0.01	5	28	1	58
236878	335	0.02	8	2	2	60	20.3	0.7	3	4	22964	1.16	2	0.01	5	0.2	1249	22	0.01	4	0.00	17	3	134	2	0.01	5	2	1	2
236879	156	0.2	9	2	27	2	17.2	0.9	7	4	12711	2.97	2	0.08	2	1.59	2122	55	0.01	5	0.01	9	2	117	2	0.01	5	8	1	23
236880	1	0.82	11	7	184	2	10.7	0.2	7	10	2429	2.35	2	0.39	18	1.59	641	6	0.03	11	0.04	6	2	203	5	0.01	5	8	1	16
236881	3.4	0.52	54	18	55	2	4.47	0.2	4	5	1194	1.97	2	0.23	6	0.33	529	10	2	6	0.02	3	2	149	2	0.01	5	12	1	26
STANDARD C	7.2	1.88	39	35	179	21	0.5	17.2	29	58	58	3.96	2	0.14	36	0.9	1009	18	0.06	65	0.09	39	14	51	37	0.09	20	56	11	124

DETECTION LIMIT 0.2 0.01 2 2 2 2 0.01 0.2 1 1 1 0.01 1 0.01 2 0.01 1 1 0.01 1 0.01 2 2 1 2 0.01 5 2 1 1

0.500 GRAMS OF PULP IS DIGESTED WITH HYDROCHLORIC AND NITRIC ACID AT 95 DEGREE CENTIGRADE FOR ONE HOUR.
DIGEST IS PARTIAL FOR B Ba Ca Cr Fe La Mg Mn Sr Ti AND W
DIGEST IS LIMITED FOR Al K AND Na

SUMMARY OF ASSAY RESULTS

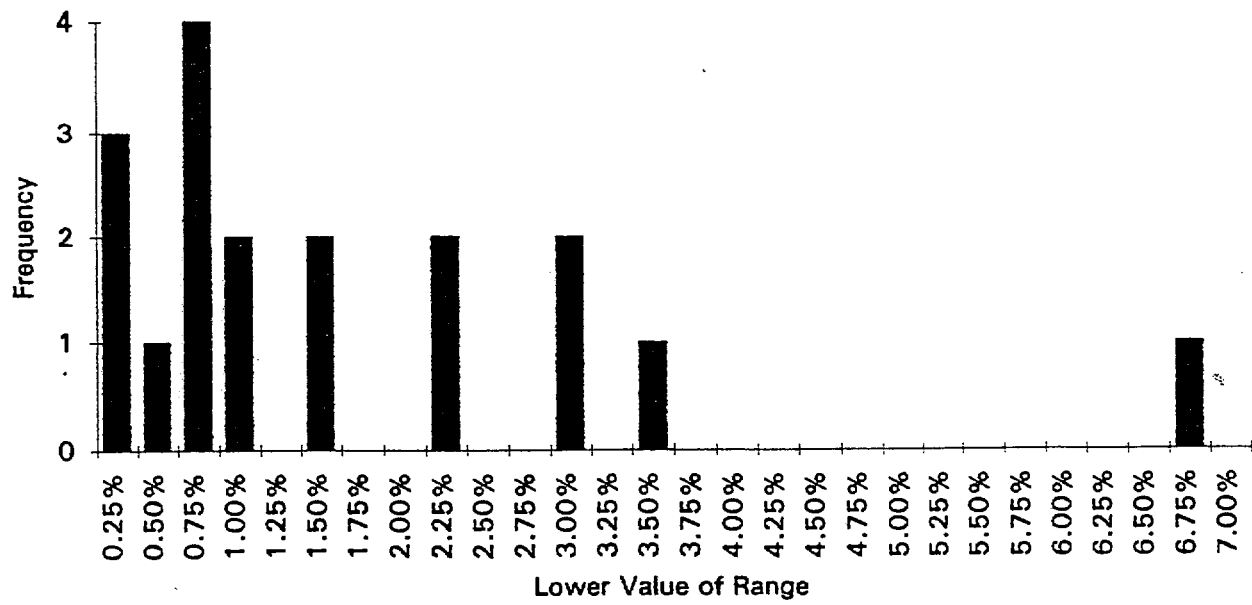
The following sheets summarize all of the sample data available on the property since March of 1991. It includes both data gathered by the owners and an independent exploration company not related to the owners.

Apache Chief Cu Assay Statistics

24-Apr-93

Stats on all Cu assays		Stats on Cu assays above .25%	
Mean	0.81%	Mean	1.69%
Standard Error	0.19%	Standard Error	0.38%
Median	0.07%	Median	1.01%
Mode	0.01%	Mode	#N/A
Standard Deviation	1.39%	Standard Deviation	1.64%
Variance	0.02%	Variance	0.03%
Kurtosis	657.01%	Kurtosis	517.85%
Skewness	237.57%	Skewness	203.45%
Range	6.96%	Range	6.71%
Minimum	0.00%	Minimum	0.25%
Maximum	6.96%	Maximum	6.96%
Sum	44.58%	Sum	32.13%
Count	55	Count	19

Histogram for Cu Assays Above .25%





Arizona Testing Laboratories

810 East Hammond Lane □ Phoenix, Arizona 85034 □ 602/254-6181

For: Mr. Jeff Samuels
2580 West 21st Place
Yuma, Arizona 85364

Date: March 28, 1991

Lab. No.: 6809

Sample: Ore

Marked: See Below

Received: 3-26-91

Submitted by: Same

REPORT OF LABORATORY TESTS

ASSAY CERTIFICATE

<u>SAMPLE MARKED</u>	<u>GOLD</u> troy/oz	<u>SILVER</u> ton	<u>COPPER</u> %
236851	0.003	---	---
236852	< 0.002	---	---
236853	0.002	---	---

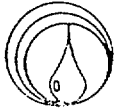
< = less than the detection
limit given

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude E. McLean
Claude E. McLean,





Arizona Testing Laboratories

810 East Hammond Lane □ Phoenix, Arizona 85034 □ 602/254-6181

For: Mr. Jeff Samuels
2580 West 21st Place
Yuma, Arizona 85364

Date: May 23, 1991

Lab. No.: 6954

Sample: Ore

Marked: See Below

Received: 05-16-91

Submitted by: Same

REPORT OF LABORATORY TESTS

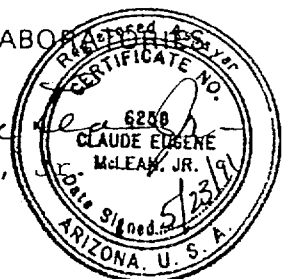
ASSAY CERTIFICATE

<u>SAMPLE MARKED</u>	<u>GOLD</u> <u>troy oz/ton</u>	<u>SILVER</u> <u>troy oz/ton</u>	<u>COPPER</u> <u>%</u>	<u>LEAD</u> <u>%</u>	<u>ZINC</u> <u>%</u>
236854	0.01	2.3	3.1	0.005	0.006

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude E. McLean, Jr.
Claude E. McLean, Jr.





Arizona Testing Laboratories

810 East Hammond Lane □ Phoenix, Arizona 85034 □ 602/254-6181

For: Mr. Jeff Samuels
2580 West 21st Place
Yuma, Arizona 85364

Date: August 09, 1991

Lab. No.: 7142

Sample: ore

Marked: See Below

Received: 08-07-91

Submitted by: Same

REPORT OF LABORATORY TESTS

ASSAY CERTIFICATE

<u>SAMPLE MARKED</u>	<u>GOLD</u> <u>troy oz/ton</u>	<u>SILVER</u>	<u>COPPER</u> <u>%</u>
236855	---	---	0.003
236856	---	---	0.12
236857	---	---	0.005
236858	---	---	4.20
236859	---	---	0.040

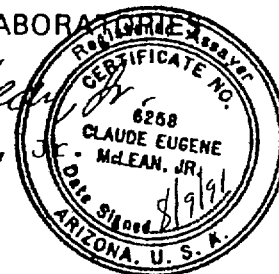
Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude E. McLean, Jr.

Claude E. McLean, Jr.

Aug 5. H.





Arizona Testing Laboratories

810 East Hammond Lane □ Phoenix, Arizona 85034 □ 602/254-6181

For: Mr. Jeff Samuels
2580 West 21st Place
Yuma, Arizona 85364

Date: August 21, 1991

Lab. No.: 7172

Sample: ore

Marked: See Below

Received: 08-20-91

Submitted by: Same

REPORT OF LABORATORY TESTS

ASSAY CERTIFICATE

<u>SAMPLE MARKED</u>	<u>GOLD</u> <u>troy oz/ton</u>	<u>SILVER</u> <u>troy oz/ton</u>	<u>COPPER</u> <u>%</u>
236860	0.02	0.20	0.01
236861	< 0.01	0.20	0.01
236862	0.04	5.0	1.1
236864	< 0.01	0.20	0.07
236865	< 0.01	3.5	0.81

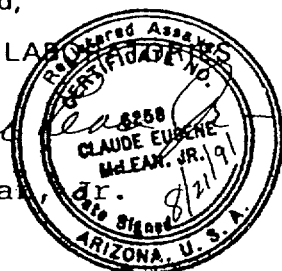
< = less than the detection
limit given

Respectfully submitted,

ARIZONA TESTING LAB

Claude E. McLean

Claude E. McLean



Apache Chief Sample Assay Database																												4/24/93									
Sample Number	Field Number	Collection Date	Sample Site	Cu Assay (% Cu)	Au Assay (oz./ton)	Ag Assay (oz./ton)	Ag (ppm)	Al (%)	As (ppm)	B (ppm)	Ba (ppm)	Bi (ppm)	Ce (%)	Cd (ppm)	Co (ppm)	Cr (ppm)	Cu (ppm)	Fe (%)	Hg (ppm)	K (%)	La (ppm)	Mg (%)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	P (%)	Pb (ppm)	Se (ppm)	Sr (ppm)	Th (ppm)	Ti (%)	U (ppm)	V (ppm)	W (ppm)	Zn (ppm)	
236851		9-Mar-91	Dozer cut near decln. & dis. monu.		0.003																																
236852		9-Mar-91	Oxidized zone from above		0.001																																
236853		9-Mar-91	East bank of clim. road		0.002																																
236854		11-May-91	Main ore stockpile	3.10%	0.010	2.300																															
236855		11-May-91	#2 adit collar	0.00%																																	
236856		11-May-91	Decline (caved) pric. spot	0.12%																																	
236857		11-May-91	East side of deep wash	0.01%																																	
236858		11-May-91	Main ore stockpile	4.20%																																	
236859		11-May-91	Drill hole cuttings by shifts	0.04%																																	
236860		17-Aug-91	Bhose cut - West side of rd - Bat.	0.01%	0.013	0.200																															
236861		17-Aug-91	Bhose cut - East side of rd - Bat.	0.01%	0.005	0.200																															
236862		17-Aug-91	Lower Stockpile - #2 mine	1.10%	0.041	5.000																															
236864		17-Aug-91	Shelf muck on E. side of claim rd	0.07%	0.005	0.200																															
236865		17-Aug-91	#1 mine - main access level	0.81%	0.005	3.500																															
AP 1-1		Dec-92		0.56%		0.015	0.5										5,600																			15	
AP 3-1		Dec-92		0.91%		0.064	2.2										8,100																			18	
AP 4-1		Dec-92		1.08%		0.058	2.0										10,800																			8	
AP 5-1		Dec-92	Same as #236867 (bhose pit)	0.84%		0.087	2.3										9,400																			7	
AP 6-1		Dec-92		0.02%		0.008	0.2										168																			43	
AP 8-1		Dec-92		0.01%		0.003	0.1										141																			7	
AP 9-1		Dec-92		0.01%		0.003	0.1										124																			11	
AP 16-1		Dec-92		0.00%		0.003	0.1										34																			7	
AP 18-1		Dec-92		3.80%		0.274	8.4										3,800																			1	
AP 18-2		Dec-92		0.03%		0.035	1.2										280																			22	
AP 20-1		Dec-92		0.05%		0.020	0.7										510																			32	
AP 21-1		Dec-92		0.01%		0.003	0.1										98																			21	
AP 22-1		Dec-92		0.02%		0.088	3.0										185																			11	
AP 22-2		Dec-92		0.01%		0.003	0.1										131																			3	
AP 23-1		Dec-92		0.02%		0.003	0.1										152																				3
AP 24-1		Dec-92		0.88%		0.148	5.0										8,800																				110
AP 25-1		Dec-92		0.26%		0.044	1.5										2,480																				2
AP 26-1		Dec-92		1.01%		0.081	2.1										10,100																				21
AP 27-1		Dec-92		0.13%		0.055	1.9										1,310																				38
AP 28-1		Dec-92	Same as #236874 (doghole by sh)	0.19%		0.064	2.2										1,890																				4
AP 29-1		Dec-92	Main ore stockpile	3.00%	0.003	5.780	198.0										30,000																				25
AP 30-1		Dec-92	Same as #236860 (bhose cut by r)	1.74%		0.867	29.7										17,400																				51
AP 31-1		Dec-92		0.03%		0.537	18.4										300																				1,010
AP 31-2		Dec-92		0.02%		0.008	0.3										204																				17
AP 32-1		Dec-92		0.01%		0.008	0.2										121																				24
AP 33-1		Dec-92		0.02%		0.064	2.2										162																				85
AP 34-1		Dec-92		0.01%		0.003	0.1										104																				6
236863	93-4	27-Mar-93	Roadside dozer cut from #2 work	0.01%		0.003	0.1	2.07%	2	8	172	2	4.25%	0.2	4	4	15	1.80%	2	0.72%	35	0.48%	497	1	0.04%	2	0.05%	3	2	63	12	0.01%	5	1.0	1	42	
236866	93-1	27-Mar-93	Campsite	0.01%		0.003	0.1	0.74%	5	4	135	2	1.47%	0.2	3	9	45	1.82%	2	0.41%	40	0.07%	273	1	0.01%	8	0.07%	50	2	21	24	0.01%	5	7	1	21	
236867	93-2	27-Mar-93	Bhose cut - 300ft. S. of campsite	0.28%		0.023	0.8	0.96%	185	13	124	2	0.42%	0.2	1	7	2,390	4.78%	2	0.45%	45	0.09%	111	11	0.05%	3	0.05%	13	2	28	18	0.01%	5	3.5	1	35	
236868	93-3	27-Mar-93	Outcrop 2/3 up hill on road	0.01%		0.003	0.1	0.70%	3	5	118	2	4.47%	0.2	8	8	50	2.13%	2	0.28%	9	0.34%	659	1	0.02%	8	0.03%	4	2	78	2	0.01%	5	8	1	14	
236869	93-5	27-Mar-93	S. wall of dozer trench from #2 w	0.01%		0.003	0.1	1.48%	21	8	66	2	3.51%	0.2	6	5	29	2.37%	2	0.26%	7	1.32%	458	2	0.06%	4	0.05%	6	2	68	7	0.01%	5	1.1	1	59	
236870	93-6	27-Mar-93	Floor	0.00%		0.003	0.1	2.55%	4	6	102	2	2.03%	0.2	9	6	22	3.03%	2	0.50%	25	1.98%	420	1	0.03%	7	0.07%	3	2	48	11	0.01%	5	1.7	1	100	
236871	93-7	27-Mar-93	Decline Portal Entrance	0.44%		0.035	1.2	0.22%	21	9	12	2	0.08%	0.2	9	15	4,258	4.73%	2	0.06%	2	0.04%	182	4	0.04%	9	0.01%	7	2	48	2	0.01%	5	7	1	6	
236872	93-8	27-Mar-93	Same as #236860	0.01%		0.015	0.5	0.48%	8	7	58	2	5.05%	0.2	6	9	37	2.04%	2	0.23%	29	0.15%	586	2	0.02%	8	0.04%	19	2	84	8	0.01%	5	4	1	35	
236873	93-9	27-Mar-93	Same as #236862	3.05%		10.180	348.0	0.32%	2	2	22	6	14.30%	1.1	5	7	21,916	1.64%	2	0.05%	5	3.45%	417	7	0.01%	14	0.04%	15	3	233	2	0.01%	5	7	1	41	
236874	93-10	27-Mar-93	Doghole near shafts of mine group	2.30%		0.085	2.9	0.16%	7	4	15	6	0.24%	0.2	4	23	20,180	2.86%	2	0.08%	2	0.05%	191	14	0.01%	15	0.00%	8	4	17	2	0.01%	5	1.8	1	4	
236875	93-11	27-Mar-93	Old stoep in #2 mine	2.34%	0.005	0.102	3.5	2.20%	4	2	49	23	1.34%	1.0	24	35	18,172	7.01%	2	0.13%	7	1.88%	1,088	225	0.05%	82	0.04%	23	5	48	2	0.01%	5	3.6	1	118	
236876	93-12	27-Mar-93	Old stoep in #2 mine	6.88%		0.388	13.3	0.05%	29	4	8	2	0.10%	0.2	5	22	58,248	5.78%	3	0.02%	6	0.04%	157	139	0.03%	17	0.00%	8	2	9	2	0.01%	5	7	1	1	
236877	93-13	27-Mar-93	Bhose pit accross wash from #2 e	0.02%		0.008	0.3	0.67%	383	5	134	2	5.81%	0.7	6	8	118	2.18%	2	0.31%	19	2.45%	401	1	0.04%	11	0.06%	15	2	400	8	0.01%	5	2.8	1	58	
236878	93-14	27-Mar-93	#1 mine - old stoep, main level	3.01%	0.012	9.780	335.0	0.02%	8	2	2	60	20.30%	0.																							