



CONTACT INFORMATION

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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: RED CHIEF

ALTERNATE NAMES:

LA PAZ COUNTY MILS NUMBER: 193

LOCATION: TOWNSHIP 6 N RANGE 17 W SECTION 31 QUARTER N2
LATITUDE: N 33DEG 49MIN 32SEC LONGITUDE: W 114DEG 03MIN 48SEC
TOPO MAP NAME: BOUSE - 15 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:

BARIUM BARITE
FLUORINE FLUORSPAR
COPPER OXIDE
BISMUTH DELETERIOUS?

BIBLIOGRAPHY:

STEWART, L.A., & PFISTER, A.J., 1960,
USBM RI 5650 P. 74.
REVISED BY MILS 7-79
ADMMR RED CHIEF FILE
GJBX-213(82)
ADMMR U FILE YUMA BARITE-FLUORITE 23
ADDITIONAL WORKINGS IN T6N R17W SEC 32 N2
AZBM BULL. 180, P. 109

RED CHIEF

REFERENCES

YUMA COUNTY

MILS Sheet number 0040270003

USBM RI ~~5650~~ 5516

GJBX 213(82) Geology and Mineral Resources of the Los Angeles, Needles, Salton Sea, San Bernardino and Trona 1 x 2 NTMX Quadrangles, Page 120

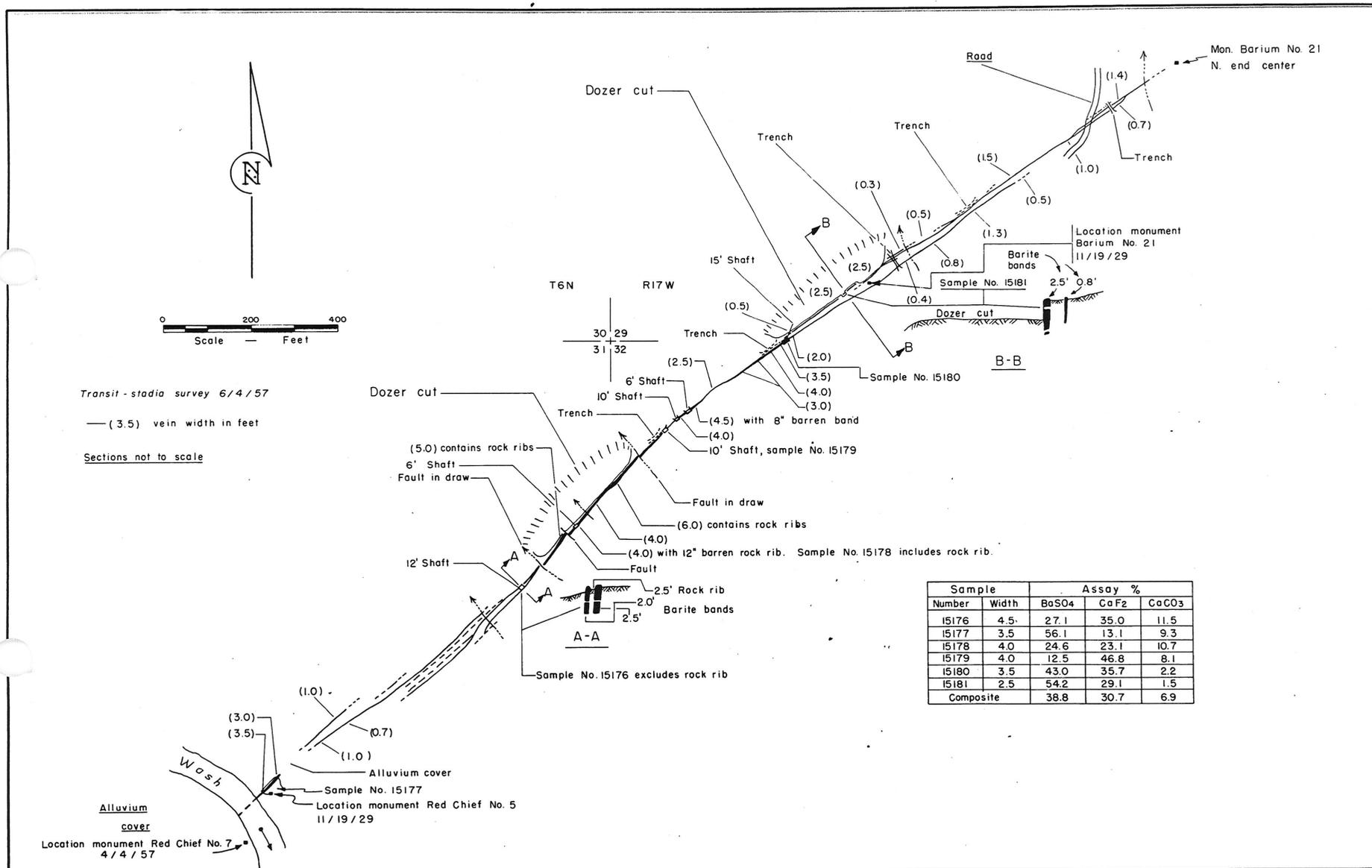


Figure 20 - Red Chief Barite deposit, Yuma County, Arizona

RED CHIEF

YUMA COUNTY

KAP WR 12/11/81: Laurence Mining & Exploration, 7975 N. Hayden Road, Suite A-105, Scottsdale, Arizona 85295, Phone: 998-0976, is reported by the Bureau of Land Management engineer to have filed a plan of operations to mine barite from four lode claims in the Plomosa District, Yuma County. The claims are the Barium #21, (AMC #24294); Red Chief #5 (AMC 24295); Mary Jane #1 (AMC 142333); and Dale Christian #1 (AMC # 142334). The claims are located in portions of Secs. 29, 30, 31, and 32, T6N, R17W. Laurence proposes to opencut the barite along the vein. Copies of the plans of operation were provided for the files by the BLM. A sample of the barite vein material exhibited by the BLM Engineer contained considerable quartz.

KAP WR 6/25/82: Billy C. Waldeck is trying to find a buyer-leasor-developer for his barite deposit, the Red Chief, near Bouse in Yuma County.

NJN WR 3/1/85: Bill C. Waldeck (c) visited and discussed the Burro Barite Property (f) and the Red Chief (c) Laz Paz County. He explained that J.J. Cavanaugh still owns 2 claims at the Burro Barite and the Red Chief while he has 17 claims surrounding those two. At another time he will bring in a claim map to show his claims and distinguish the 2 properties. Mr. Waldeck is interested in leasing or selling his claims as a barite property or as a precious metal target.



FD

March 2, 1982

*Red Chief
Yuma Co.*

Mr. Joseph A. Cavanaugh
6649 Bar F Ranch Road
Paradise Valley, AZ 85253

Dear Mr. Cavanaugh:

This is to acknowledge your disenchantment and disengagement from Laurence Mining Company and your claims. We have had no word from them, or the owners of the other claimant as yet.

If and when your operations exceed 5 acres of surface disturbance, please notify us with a plan of operations.

Sincerely,

Frank E. Daniels

Area Manager
Lower Gila Resource Area

RPark:fd

mm-82-2-85

mm-82-I-~~4~~
~~05~~
15

Robert Larkin
STATE LAND DEPARTMENT
STATE OF ARIZONA
4th Floor
1624 West Adams
PHOENIX, AZ 85007

February 18, 1982

Subject: Prospecting Permit #81181
Sec 32, T6N, R17W

Reference: 1) My letter of December 23, 1981
2) Our Conversation of January 26, 1982

The referenced letter requested State permission to extend a lease with Laurence Mining and Exploration to the subject permit area. It also requested approval to use some equipment to perform some exploration work in the area.

As we discussed as a possibility, the situation has changed again in regard to the use of the permit area. Laurence Mining has defaulted on their lease with us over the BLM portion of this mining area. Therefore, I will not be extending any involvement to this firm at this time. Regarding the Plan of Operation submitted, I now wish to do exploration work of a considerably reduced level. Specifically we plan to use a conventional backhoe or similar equipment to trench in parallel to the existing vein -- with some crosscuts if possible. The trenches will be closed after the exploration work is complete -- by the end of the extended State Prospecting Permit period. I wish to do this work in March -- therefore need State response as soon as possible to allow equipment scheduling.

If there are any questions or concerns please be free to contact me by phone: Business 263-2835, or home 948-3549.

Sincerely,

Joseph A. Cavanaugh
6649 Bar Z Ranch Road
Paradise Valley, Arizona 85253

ELM
PHOENIX DISTRICT

✓ CC: Richard Park
Bureau of Land Management, US Government
2929 West Clarendon Ave, Phoenix

	DEF	ACT	INT
DISTRICT			
CITY			
PA			
ADVIS			
SUPPL			
PLN			
PERM			
REG			
FILE			
DATE			

Robert Larkin
STATE LAND DEPARTMENT
STATE OF ARIZONA
4th Floor
1624 West Adams
PHOENIX, AZ 85007

mm-82-5-15

December 23, 1981

Subject: Prospecting Permit #81181
Sec 32, T6N, R17W

Reference: 1) My letter of March 9, 1981
2) My letter of June 18, 1981 to the Commissioner regarding
Statement of Value Destruction
3) Our Conversation this Date

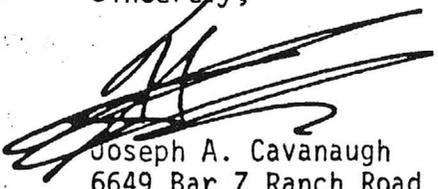
Enclosed find a copy of an assay report -- using samples from the vein that runs through the subject permit area. I believe this report establishes the existence of minerals in the permit area, since the vein is visible to the surface.

I submit a copy of the Plan of Operation for the BLM portion prepared by Laurence Mining and Exploration November 2, 1981 and updated November 23. I have enclosed a copy of the BLM approval papers.

As we discussed, our intention has changed in regard to the use of the permit area. I request permission to extend the provisions of my May 1, 1981 lease with Laurence Mining and Exploration to include the subject permit area. After this approval, I request that the enclosed Plan of Operation be approved to specifically enable two vein cross cuts to be made. Each will be 20 feet in length and 10 - 14 feet in depth. Reclamation will be done by Laurence Mining using the approach described in the enclosed Plan of Operation.

If there are any questions or concerns please be free to contact me by phone: Business 263-2835, or home 948-3549.

Sincerely,



Joseph A. Cavanaugh
6649 Bar Z Ranch Road
Paradise Valley, Arizona 85253

CC: Robert Walton
Laurence Mining and Exploration, Inc.

Richard Park ✓
Bureau of Land Management, US Government
2929 West Clarendon Ave, Phoenix

m m - 82 - L - 15

1435 SOUTH 10TH AVENUE
TUCSON, ARIZONA 85713

Jacobs Assay Office

Registered Assayers
Since 1880



PHONE 622-0813

Tucson, Arizona, 1 July 1981

Sample Submitted by Mr. Larry Bobella

"Red Chief Borium #21"

Sample Marked	GOLD	GOLD	SILVER	COPPER	BaSO4	Ca	Fe	Sp. Gr.
	Ozs. per ton ore	Value per ton ore*	Ozs. per ton ore	Per cent Wet Assay				
#2					63.35	21.20	0.05	4.00
#6					52.40	—	—	3.07
#7					56.90	—	—	3.07
#8					66.90	—	—	3.85

* Gold Figured \$300.00 per oz. Troy
Charges \$ 66.75 PAID

Very respectfully,
W. H. Jacobs

PLAN OF OPERATIONS

Bureau of Land Management

Phoenix, Arizona, District

Yuma County

Plomosa Mining District

This Plan Of Operations is submitted pursuant to 43-CFR-3809 by the below-listed operator, for review and approval by the authorized officer of the Bureau of Land Management.

A. OPERATOR

Name of Operator Laurence Mining & Exploration (602) 998-0976

Address of Operator 7975 North Hayden Road, Suite A-105
Telephone No.

Scottsdale, Arizona 85295

Name of Field Representative James G. Jones

(if other than Operator)
Address and phone of Field Representative same as above

B. CLAIM IDENTIFICATION

The name(s) of the claim(s) on which the operation will be conducted are:

NAME & TYPE OF CLAIM (X) Lode () Placer () Tunnel Site () Hillside	Location Date	Recorded	
		Book (or Docket)	Page
Red Chief #5	June 5, 1928	27	202
Barium #21	Feb. 15, 1930	29	230

12-2810-2

C. CLAIM OWNER

The owner(s) of the above claim(s) are as follows:

J. J. Cavanaugh 6649 Barz Ranch Rd.

Paradise Valley, AZ 85253

(Name)

(Address)

(Phone)

The above owner has authorized this operation through (check one): () lease, () contract, () direct employment, () Other (explain)

D. MAPS

Attached as Exhibit A to this Operating Plan is a map of all claims listed item B. (a 2" = 1 mile quad map or a U.S.G.S. topographic map). An optional attachment is a sketch map showing the claim grouping; and details of the operation.

E. ACCESS

The proposed route of access is: Via Quartzite Road approximately 8 miles south of Bouse, Arizona.

which consists of existing roads shown as solid lines and proposed roads shown as dashed lines in Exhibit A. (Note: Construction, reconstruction, or restoration of a road is a means of access to mining claims will be authorized separately by a special use permit.)

F. VEHICLES AND EQUIPMENT

The following vehicles and equipment listed by type and size, will be used in connection with this operation:

Type & Size of Vehicle	License or Serial No.	Location
D-8 Cat Dozer 4 1/2 yd. Michigan Loader Two 20-ton haul trucks Air Track Drill 900 CFM Compressor 100 kw. Generator F-600 Service Truck 8' x 32' Office Trailer 1 Pick-up Truck 2 Powder Magazines 1,000-Gal. Diesel Tank One 600 TPD Gravity Mill		TGN, R 17 W, Secs. 29,30,31,32

TYPE OF OPERATION

Describe the type and magnitude of the operation to be performed. Detailed information is required for any earth moving and site clearance operations. A separate surface disturbance map will be submitted as Exhibit B if such operations are extensive. Tie all operations to claim maps.

Laurence Mining and Exploration (LME) proposes to mine a steeply dipping vein of Barite. The Barite vein is approximately 5 feet wide and 4,000 feet along the strike length (Exhibit "B").

The proposed mining method is similar to pipe line trenching (Exhibit "C"). A D-8 dozer will expose and level the surface of the vein. An air track drill with a compressor will drill blast holes in the vein. The holes will be loaded with a blasting agent and shot. A 11-yard excavator (backhoe) will set on top of the vein, scoop the broken muck into a dump truck. The truck will haul the material to the stockpile.

The second phase of mining will be to widen the initial trench. This will be accomplished by drilling, shooting the walls, excavating, and stacking the muck along side of the trench.

The third phase will be to make a second mining pass down the vein of Barite with the excavator.

The fourth phase of mining will be to push the stacked muck back into the trench.

Describe actions taken to minimize adverse environmental impacts. Plans for reclamation of disturbed areas and for erosion control, including provisions for filling excavations, grading of soil banks, blocking of access roads, reseeding, etc.

All surface disturbance will be kept to a minimum. Topsoil will be dozed to one side of the trench and segregated from blasted rock. The excavated blasted rock will be stacked along side of the trench and dozed back into the trench as mining progresses. The maximum length of phase I, II, and III will be kept to 1,500'. In other words the maximum length of open trench will be 1,500 feet.

When the blasted muck is dozed back into the trench, any excess or deficit will be contoured into the topography.

I. PERIOD OF OPERATION

This operation will begin on November 6, 1981 (a date not prior to date of approval. This operation will be completed on November 6, 1982 (a date not to exceed 12 months from approval date). If operations are proposed to exceed one year, an addendum to this plan should be filed. A substantially changed operation will be covered by a new Operating Plan.

J. ANTIQUITIES

The operator agrees to notify the authorizing officer of any discovery of cultural or natural history resources within the area covered by the plan. This authorization to proceed does not constitute permission so as to relieve the operator from criminal prosecution under the Antiquities Act (P.L. 59-20).

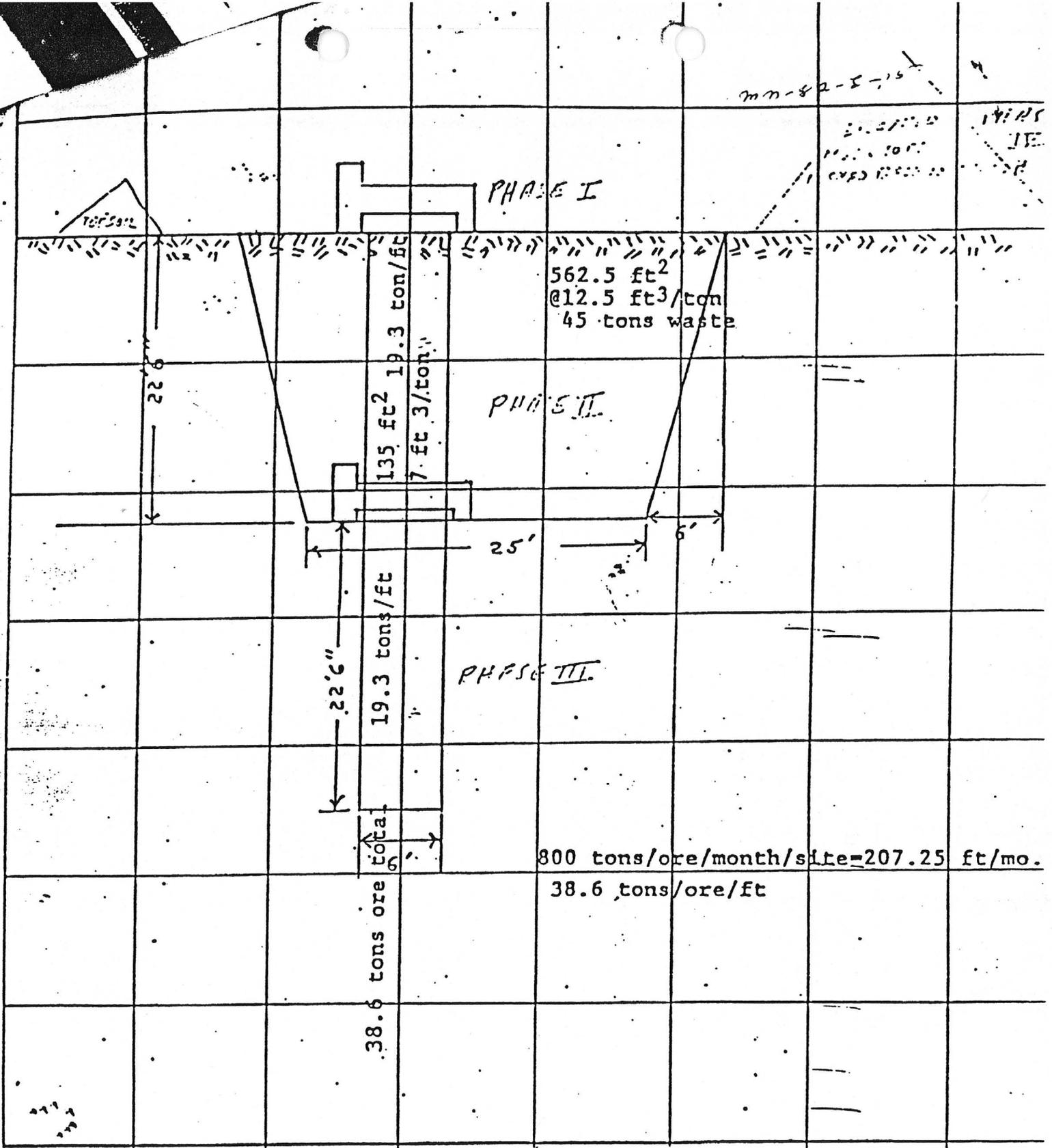
K. ENCLOSURES (list as appropriate)

1. Exhibit A - map
- 2.

Submitted by:

[Signature]
Signature

NOV 2, 1981
Date



PROPOSED MINE METHOD
RED CHIEF MINE
BOUSE, ARIZONA

Laurence Mining & Exploration, Inc.
7975 N. Hayden Road, Suite A-105
Scottsdale, Arizona 85258

Scale 1" = 10
November 2, 19

2810

Unsubmitted Plan to include 2 additional claims
PLAN OF OPERATIONS *Received 11/27/81*

Bureau of Land Management
 Phoenix, Arizona District
 Yuma County
 Plomosa Mining District

R Park.

This Plan Of Operations is submitted pursuant to 43-CFR-3809 by the below-listed operator, for review and approval by the authorized officer of the Bureau of Land Management.

A. OPERATOR

Name of Operator Laurence Mining & Exploration (602) 998-0976
 Telephone No.

Address of Operator 7975 N. Hayden Road, Suite A-105
Scottsdale, Arizona 95258

Name of Field Representative Rick Williamson
 (if other than Operator)

Address and phone of Field Representative same as above

B. CLAIM IDENTIFICATION

The name(s) of the claim(s) on which the operation will be conducted are:

NAME & TYPE OF CLAIM (X) Lode () Placer () Tunnel Site () Hillside	Location Date	Recorded	
		Book (or Docket)	Page
Mary Jane #1 A.M.C. 142333	10/24/81	1252	595-596
Dale Christian #1 A.M.C. 142334	10/24/81	1252	597-598

12-2810-2

C. CLAIM OWNER

The owner(s) of the above claim(s) are as follows:

Billy Carl Waldeck P.O. Box 584
Cave Creek, Arizona 85331
 (Name) (Address) (Phone)

The above owner has authorized this operation through (check one): (X) lease,
 () contract, () direct employment, () Other (explain)

D. MAPS

Attached as Exhibit A to this Operating Plan is a map of all claims listed under item B. (a 2" = 1 mile quad map or a U.S.G.S. topographic map). An optional attachment is a sketch map showing the claim grouping, and details of the operation.

E. ACCESS

The proposed route of access is: Via Quartzite Road approximately 8 miles
south of Bouse, Arizona

which consists of existing roads shown as solid lines and proposed roads shown as dashed lines in Exhibit A. (Note: Construction, reconstruction, or restoration of a road is a means of access to mining claims will be authorized separately by a special use permit.)

F. VEHICLES AND EQUIPMENT

The following vehicles and equipment listed by type and size, will be used in connection with this operation:

Type & Size of Vehicle	License or Serial No.	Location
D-8 Cat Dozer 4 1/2 yd. Michigan Loader Two 20-ton haul trucks Air Track Drill 900 CFM Compressor 100 kw. Generator F-600 Service Truck 8' x 32' Office Trailer 1 Pick-up Truck 2 Powder Magazines 1,000-Gal. Diesel Tank One 600 TPD Gravity Mill		T.6N., R.17W, Secs. 30 & 31

OF OPERATION

Describe the type and magnitude of the operation to be performed. Detailed information is required for any earth moving and site clearance operations. Separate surface disturbance map will be submitted as Exhibit B if such operations are extensive. Tie all operations to claim maps.

Laurance Mining and Exploration (LME) proposes to mine a steeply dipping vein of Barite. The Barite vein is approximately 5 feet wide and 3,000 feet long along the strike length (Exhibit "B").

The proposed mining method is similar to pipe line trenching (Exhibit "C"). A D-8 dozer will expose and level the surface of the vein. An air track will be used with a compressor will drill blast holes in the vein. The holes will be loaded with a blasting agent and shot. A 1 1/2-yard excavator (backhoe) will be set on top of the vein, scoop the broken muck into a dump truck. The truck will haul the material to the stockpile.

The second phase of mining will be to widen the initial trench. This will be accomplished by drilling, shooting the walls, excavating, and stacking the muck along side of the trench.

The third phase will be to make a second mining pass down the vein of Barite with the excavator.

The fourth phase of mining will be to push the stacked muck back into the trench.

H. ENVIRONMENTAL PROTECTION MEASURES

Describe actions taken to minimize adverse environmental impacts. State plans for reclamation of disturbed areas and for erosion control, including provisions for filling excavations, grading of soil banks, blocking of access roads, reseeding, etc.

All surface disturbance will be kept to a minimum. Topsoil will be dozed to one side of the trench and segregated from blasted rock. The excavated blasted rock will be stacked along side of the trench and dozed back into the trench as mining progresses. The maximum length of phase I, II, and III will be kept to 1,500'. In other words the maximum length of open trench will be 1,500 feet.

When the blasted muck is dozed back into the trench, any excess or deficit will be contoured into the topography.

I. PERIOD OF OPERATION

This operation will begin on November 30, 1981 (a date not prior to date of approval. This operation will be completed on November 6, 1982 (a date not to exceed 12 months from approval date). If operations are proposed to exceed one year, an addendum to this plan should be filed. A substantially changed operation will be covered by a new Operating Plan.

J. ANTIQUITIES

The operator agrees to notify the authorizing officer of any discovery of cultural or natural history resources within the area covered by the plan. This authorization to proceed does not constitute permission so as to relieve the operator from criminal prosecution under the Antiquities Act (P.L. 59-209).

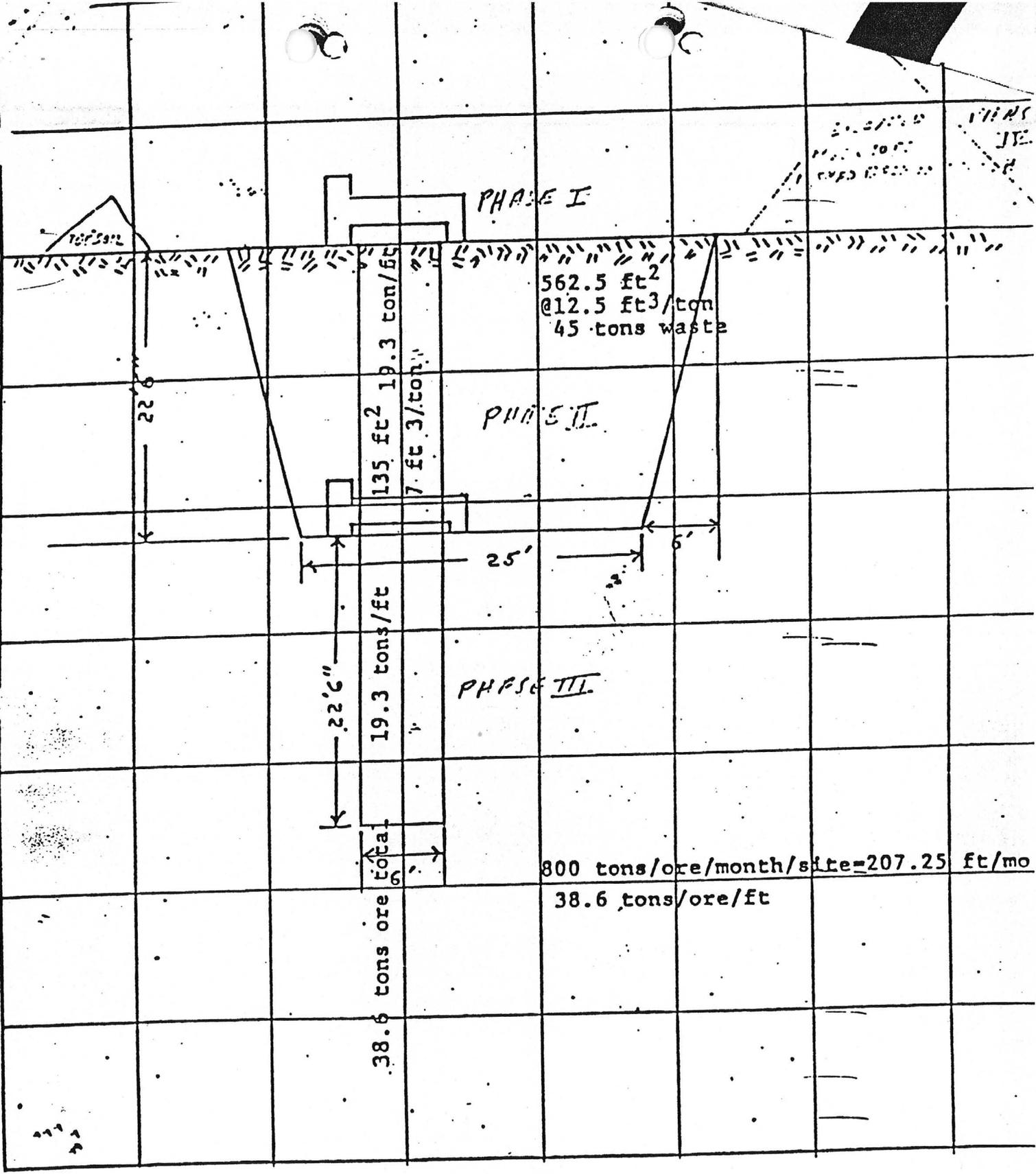
K. ENCLOSURES (list as appropriate)

1. Exhibit A - map
- 2.

Submitted by:

James H. Jones
Signature

11-8 11-23-81
Date



PROPOSED MINE METHOD
RED CHIEF MINE
BOUSE, ARIZONA

Laurence Mining & Exploration, Inc.
7975 N. Hayden Road, Suite A-105
Scottsdale, Arizona 85258

Scale 1" = 1
November 2, 1

MPO-81-L-012

December 11, 1981

Laurence Mining and Exploration, Inc.
7975 N. Hayden Road
Scottsdale, AZ 85258

Dear Jim:

This is to inform you that your Plan of Operations has been approved
by this office.

Sincerely,

Marvin D. Durfee

M. Dean Durfee, Area Manager
Lower Gila Resource Area

RPark:fd

Draft Decision: MPO-81-L-012

EA AZ-027-82-7

I. The Mining Plan of Operations for the removal of barite by the Laurence Mining and Exploration Corporation is recommended for approval.

II. Stipulations included:

- A. Compliance with Arizona State Plant Protection laws.
- B. A small possible paleo-quarry will not be disturbed.
- C. A \$2,000 Surety Bond will be secured.
- D. If ironwood or palo verde trees over 6 feet impede mining, they shall be replanted, not destroyed.

Richard R. Park
Richard R. Park, Area Geologist

12/8/81
Date

Marvin D. Durfee
Area Manager

12/8/81
Date

W. K. Barber
District Manager

12/11/81
Date

Title: Laurence Mining Company Mining Plan of Operations.

DESCRIPTION OF THE PROPOSED ACTION AND ALTERNATIVES

The proposed action will initially occur on the Mary Jane #1 and Dale Christian #1 claims, located in Township 6 North, Range 17 West, Sections 30 and 31. The several veins of barite of varying degrees of purity will be excavated by a backhoe. The ore will be stockpiled for shipment on clear areas and the overburden and gangue will be stored on the other side of the trench. When the ore is exhausted, the waste will be returned to the trench and contoured. When the area is mined, the operator will notify the BLM where the next operation will take place.

The alternative would be to reject the Plan of Operations.

II. ANTICIPATED IMPACTS OF THE ACTION AND ALTERNATIVES

The removal of the barite ores will create slight depressions running parallel to the ridges which will tend to slow the erosion of the hillside and may create small catchments for rain water. No other impacts are anticipated.

III. POSSIBLE MITIGATION OR ENHANCING MEASURES.

The possibilities of catchments for rain water would be of benefit to the sparse wildlife in the area.

Richard Patti

Decision Record

EA AZ-027-82-7.

File: MPO-81-L-012

A. Decision:

The Laurence Mining Company's Plan of Operations is accepted and approved, as submitted. BLM office will be notified when operations expand beyond the Mary Jane #1 and Dale Christian #1 claims.

B. Rationale:

1. The above decision is approval of the proposed action.
2. The proposed mining method and restoration plans are in conformity with environmental laws.

C. Mitigating Measures:

1. Overburden and gangue are stockpiled for reclamation of excavations. All compliance measures have been agreed to.

D. Finding of No Significant Impact:

Sparse vegetation will not be significantly disturbed. No habitation in the area. No public reaction to the proposal. No significant effect on the human environment. An environmental statement is not required.

E. Signatures:

Marvin D. Dwyer
Area Manager

12/8/81
Date

W. K. Karker
District Manager

12/11/81
Date

<p>STANDARD FORM 25 JUNE 1967 EDITION GENERAL SERVICES ADMINISTRATION FED. PROC. REG. (41 CFR) 1-10.801</p> <p style="text-align: center;">PERFORMANCE BOND (See Instructions on reverse)</p>	<p>DATE BOND EXECUTED (Must be same or later than date of contract) December 4, 1981</p>								
<p>PRINCIPAL (Legal name and business address)</p> <p>LAURENCE MINING & EXPLORATION, INC. 7975 North Hayden Road Scottsdale, Arizona 85258</p>	<p>TYPE OF ORGANIZATION ("X" one)</p> <p><input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> JOINT VENTURE <input checked="" type="checkbox"/> CORPORATION</p> <p>STATE OF INCORPORATION Arizona</p>								
<p>SURETY(IES) (Name(s) and business address(es))</p> <p>MERCHANTS MUTUAL BONDING COMPANY 2100 Grand Avenue Des Moines, Iowa 50312</p>	<p>PENAL SUM OF BOND</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%;">MILLION(S)</td> <td style="width:25%;">THOUSAND(S)</td> <td style="width:25%;">HUNDRED(S)</td> <td style="width:25%;">CENT(S)</td> </tr> <tr> <td></td> <td style="text-align: center;">2</td> <td style="text-align: center;">000</td> <td style="text-align: center;">00</td> </tr> </table> <p>CONTRACT DATE CONTRACT NO.</p> <p style="text-align: center;">12-04-81 MPD-81-L012</p>	MILLION(S)	THOUSAND(S)	HUNDRED(S)	CENT(S)		2	000	00
MILLION(S)	THOUSAND(S)	HUNDRED(S)	CENT(S)						
	2	000	00						

KNOW ALL MEN BY THESE PRESENTS, That we, the Principal and Surety(ies) hereto, are firmly bound to the United States of America (hereinafter called the Government) in the above penal sum for the payment of which we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally: *Provided*, That, where the Sureties are corporations acting as co-sureties, we, the Sureties, bind ourselves in such sum "jointly and severally" as well as "severally" only for the purpose of allowing a joint action or actions against any or all of us, and for all other purposes each Surety binds itself, jointly and severally with the Principal, for the payment of such sum only as is set forth opposite the name of such Surety, but if no limit of liability is indicated, the limit of liability shall be the full amount of the penal sum.

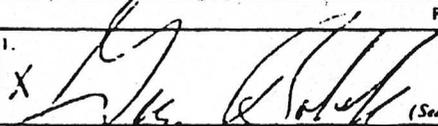
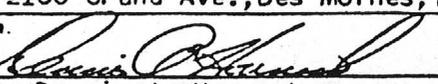
THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Principal entered into the contract identified above;

NOW, THEREFORE, if the Principal shall:

(a) Perform and fulfill all the undertakings, covenants, terms, conditions, and agreements of said contract during the original term of said contract and any extensions thereof that may be granted by the Government, with or without notice to the Surety(ies), and during the life of any guaranty required under the contract, and shall also perform and fulfill all the undertakings, covenants, terms, conditions, and agreements of any and all duly authorized modifications of said contract that may hereafter be made, notice of which modifications to the Surety(ies) being hereby waived; and

(b) If the said contract is subject to the Miller Act, as amended (40 U.S.C. 270a-270e), pay to the Government the full amount of the taxes imposed by the Government which are collected, deducted, or withheld from wages paid by the Principal in carrying out the construction contract with respect to which this bond is furnished; then the above obligation shall be void and of no effect.

IN WITNESS WHEREOF, the Principal and Surety(ies) have executed this performance bond and have affixed their seals on the date set forth above.

PRINCIPAL					
Signature(s)	1.  (Seal)	2.		Corporate Seal	
Name(s) & Title(s) (Typed)	1. George Bobella Chairman	2.			
INDIVIDUAL SURETY(IES)					
Signature(s)	1. (Seal)	2. (Seal)			
Name(s) (Typed)	1.	2.			
CORPORATE SURETY(IES)					
SURETY A	Name & Address	Merchants Mutual Bonding Company 2100 Grand Ave., Des Moines, Iowa	STATE OF INC. Iowa	LIABILITY LIMIT \$244,000.00	Corporate Seal
	Signature(s)	1. 			
	Name(s) & Title(s) (Typed)	1. Dennis A. Harnack Attorney-in-Fact			

ARIZONA DEPARTMENT OF MINERAL RESOURCES
Mineral Building, Fairgrounds
Phoenix, Arizona

1. Information from: Richard Park - BLM GEOLOGIST - Phoenix District
Address: _____
2. Mine: Red Chief (Yuma 193 (map #)) MIL 0040270003
New Names: Mary Jane #1 & Dale Christian #1 3. No. of Claims - Patented _____
Unpatented 2
4. Location: See Attached map
5. Sec 30 & 31 Tp 6N Range 17W 6. Mining District Plomosa, Yuma County
7. Owner: Billy Carl Waldeck
8. Address: P.O. Box 584, Cave Creek, Arizona 85331
9. Operating Co.: Laurence Mining and Exploration
10. Address: 7975 N. Hayden Road, Suite A-105, Scottsdale, AZ 85258
11. President: Laurence Bobella 12. Gen. Mgr.: Rick Williamson
13. Principal Metals: Barite 14. No. Employed: _____
15. Mill, Type & Capacity: None
16. Present Operations: (a) Down (b) Assessment work (c) Exploration
(d) Production (e) Rate 800 TPM ~~tpd.~~
17. New Work Planned: See attached BLM plan of operations

18. Miscl. Notes: _____

Date: December 10, 1981

Ken A. Phillips
(Signature) (Field Engineer)

Amended Plan to include 2 additional claims
PLAN OF OPERATIONS

Received 11/27/81

Bureau of Land Management

Phoenix, Arizona District

Yuma County

Plomosa Mining District

R Park.

This Plan Of Operations is submitted pursuant to 43-CFR-3809 by the below-listed operator, for review and approval by the authorized officer of the Bureau of Land Management.

A. OPERATOR

Name of Operator Laurence Mining & Exploration (602) 998-0976

Telephone No.

Address of Operator 7975 N. Hayden Road, Suite A-105

Scottsdale, Arizona 95258

Name of Field Representative Rick Williamson

(if other than Operator)

Address and phone of Field Representative same as above

B. CLAIM IDENTIFICATION

The name(s) of the claim(s) on which the operation will be conducted are:

NAME & TYPE OF CLAIM (X) Lode () Placer () Tunnel Site () Millsite	Location Date	Recorded	
		Book (or Docket)	Page
Mary Jane #1 A.M.C. 142333	10/24/81	1252	595-596
Dale Christian #1 A.M.C. 142334	10/24/81	1252	597-598

C. CLAIM OWNER

The owner(s) of the above claim(s) are as follows:

Billy Carl Waldeck P.O. Box 584 _____

Cave Creek, Arizona 85331 _____

(Name) (Address) (Phone)

The above owner has authorized this operation through (check one): (X) lease, () contract, () direct employment, () Other (explain)

D. MAPS

Attached as Exhibit A to this Operating Plan is a map of all claims listed under item B. (a 2" = 1 mile quad map or a U.S.G.S. topographic map). An optional attachment is a sketch map showing the claim grouping, and details of the operation.

E. ACCESS

The proposed route of access is: Via Quartzite Road approximately 8 miles south of Bouse, Arizona

which consists of existing roads shown as solid lines and proposed roads shown as dashed lines in Exhibit A. (Note: Construction, reconstruction, or restoration of a road is a means of access to mining claims will be authorized separately by a special use permit.)

F. VEHICLES AND EQUIPMENT

The following vehicles and equipment listed by type and size, will be used in connection with this operation:

Type & Size of Vehicle	License or Serial No.	Location
D-8 Cat Dozer 4½ yd. Michigan Loader Two 20-ton haul trucks Air Track Drill 900 CFM Compressor 100 kw. Generator F-600 Service Truck 8' x 32' Office Trailer 1 Pick-up Truck 2 Powder Magazines 1,000-Gal. Diesel Tank One 600 TPD Gravity Mill		T.6N., R.17W, Secs. 30 & 31

G. TYPE OF OPERATION

Describe the type and magnitude of the operation to be performed. Detailed information is required for any earth moving and site clearance operations. A separate surface disturbance map will be submitted as Exhibit B if such operations are extensive. Tie all operations to claim maps.

Laurence Mining and Exploration (LME) proposes to mine a steeply dipping vein of Barite. The Barite vein is approximately 5 feet wide and 3,000 feet along the strike length (Exhibit "B").

The proposed mining method is similar to pipe line trenching (Exhibit "C"). A D-8 dozer will expose and level the surface of the vein. An air track drill with a compressor will drill blast holes in the vein. The holes will be loaded with a blasting agent and shot. A 1½-yard excavator (backhoe) will set on top of the vein, scoop the broken muck into a dump truck. The truck will haul the material to the stockpile.

The second phase of mining will be to widen the initial trench. This will be accomplished by drilling, shooting the walls, excavating, and stacking the muck along side of the trench.

The third phase will be to make a second mining pass down the vein of Barite with the excavator.

The fourth phase of mining will be to push the stacked muck back into the trench.

H. ENVIRONMENTAL PROTECTION MEASURES

Describe actions taken to minimize adverse environmental impacts. State plans for reclamation of disturbed areas and for erosion control, including provisions for filling excavations, grading of soil banks, blocking of access roads, reseeding, etc.

All surface disturbance will be kept to a minimum. Topsoil will be dozed to one side of the trench and segregated from blasted rock. The excavated blasted rock will be stacked along side of the trench and dozed back into the trench as mining progresses. The maximum length of phase I, II, and III will be kept to 1,500'. In other words the maximum length of open trench will be 1,500 feet.

When the blasted muck is dozed back into the trench, any excess or deficit will be contoured into the topography.

I. PERIOD OF OPERATION

This operation will begin on November 30, 1981 (a date not prior to date of approval. This operation will be completed on November 6, 1982 (a date not to exceed 12 months from approval date). If operations are proposed to exceed one year, an addendum to this plan should be filed. A substantially changed operation will be covered by a new Operating Plan.

J. ANTIQUITIES

The operator agrees to notify the authorizing officer of any discovery of cultural or natural history resources within the area covered by the plan. This authorization to proceed does not constitute permission so as to relieve the operator from criminal prosecution under the Antiquities Act (P.L. 59-209).

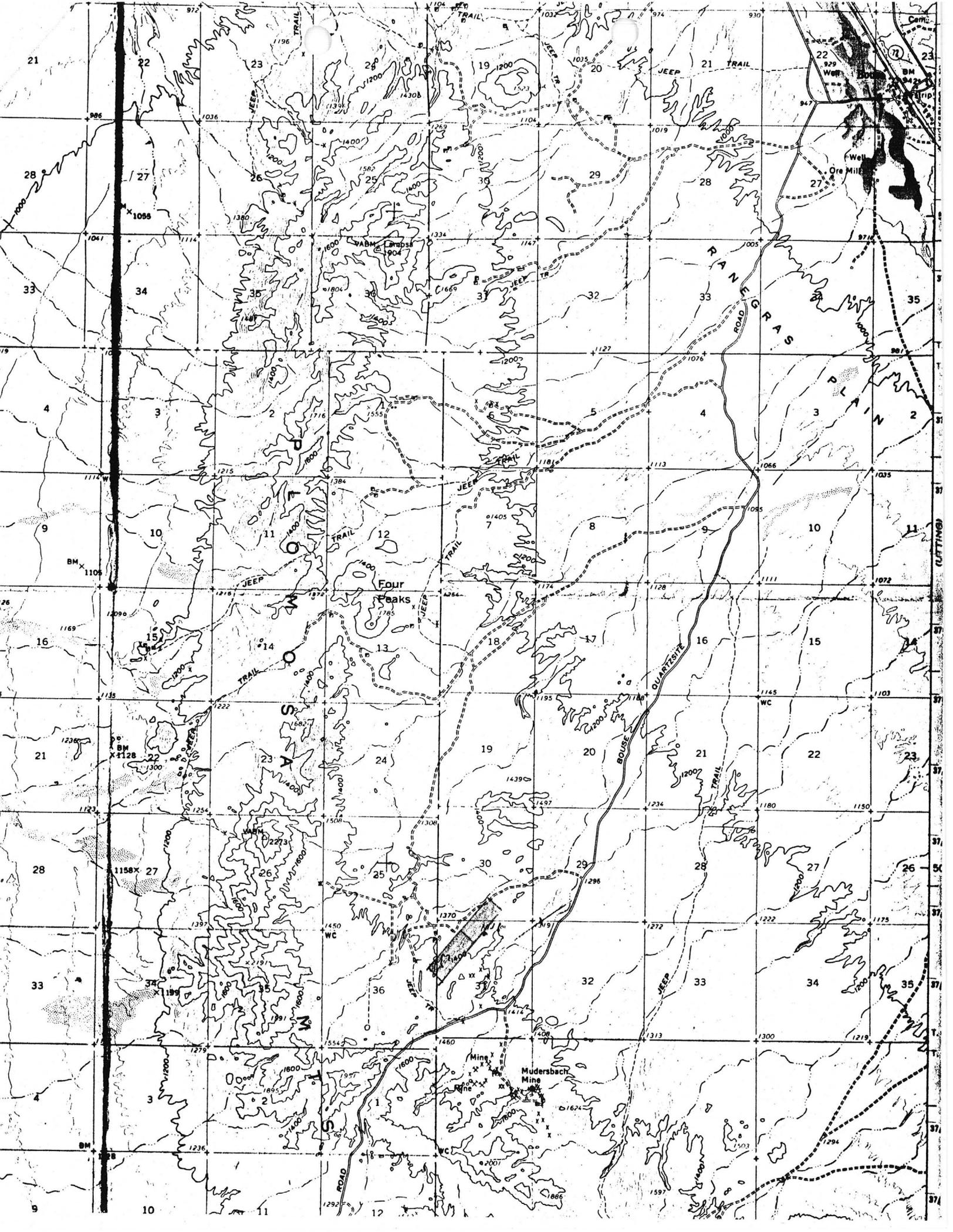
K. ENCLOSURES (list as appropriate)

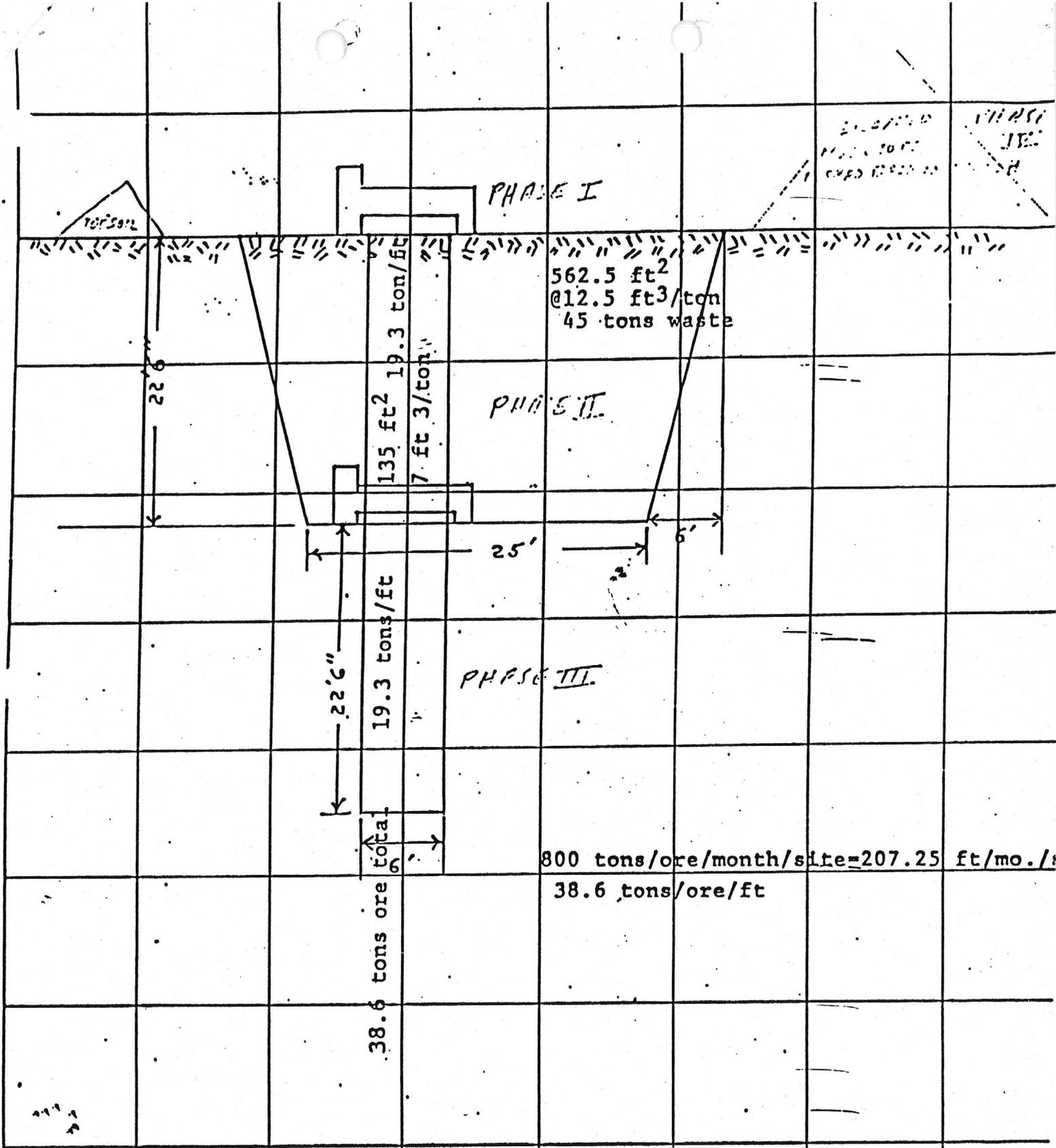
1. Exhibit A - map
- 2.

Submitted by:

James G. Jones
Signature

11-8 11-23-81
Date





PROPOSED MINE METHOD
RED CHIEF MINE
BOUSE, ARIZONA

Laurence Mining & Exploration, Inc.
7975 N. Hayden Road, Suite A-105
Scottsdale, Arizona 85258

Scale 1" = 100'
November 2, 1981