



CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
416 W. Congress St., Suite 100
Tucson, Arizona 85701
602-771-1601
<http://www.azgs.az.gov>
inquiries@azgs.az.gov

The following file is part of the JABA, Inc. Tombstone Mining Records

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Volume 8 ; Book 12

TOMBSTONE

Mining District

Cochise County

ARIZONA

1981 Discovery Process - Volume #3
August 1979 to September 1979

Volume III - August to September, 1979

- 3-1. August Budget
- 3-2. 7-31-79 - Daily Progress Report
- 3-3. 7-30-79 - Daily Progress Report
- 3-4. 7-29-79 - Daily Progress Report
- 3-5. 7-28-79 - Daily Progress Report
- 3-6. Daily Progress Report 7-26-79
- 3-7. 7-24-79 - Daily Progress Report
- 3-8. 7-22-79 - Daily Progress Report
- 3-9. 7-20-79 - Daily Progress Report
- 3-10. 7-31-79 - Letter to JNB from Dick Hewlett
re: Daily Progress Reports
- 3-11. 8-2-79 - Memo to Dick Hewlett from JNB
re: Assignments
- 3-12. 8-2-79 - Memo re: Tombstone pay roll checks
- 3-13. 8-3-79 - Letter to Tom Schloss from JNB
re: Cash expenditures
- 3-14. 8-10-79 - JNB field notes
- 3-15. 8-8-79 - Letter to JNB from Apache Oro Company
- 3-16. 8-16-79 - Letter to JNB from State Mine Inspector
- 3-17. 8-15-79 - Memo to Tom Schloss from JNB
re: 8/9/79 Progress Report
- 3-18. 8-15-79 - Memo to Tom Schloss from JNB
re: 8/10/79 Progress Report
- 3-19. 8-15-79 - Memo to Tom Schloss from JNB
re: 8/11/79 Progress Report
- 3-20. 8-15-79 - Memo to Tom Schloss from JNB
re: 8/12/79 Progress Report

Volume III - August to September, 1979
Cont'd

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- 3-21. 8-15-79 - Memo to Tom Schloss from JNB
re: 8/13/79 Progress Report
- 3-22. 8-15-79 - Memo to Tom Schloss from JNB
re: 8/14/79 Progress Report
- 3-23. 8-15-79 - Memo to Tom Schloss from JNB
re: 8/15/79 Progress Report
- 3-24. 8-15-79 - Memo to Tom Schloss from JNB
re: 8/16/79 Progress Report
- 3-25. 8-16-79 - Assay samples
- 3-26. 8-16-79 - Assay samples
- 3-27. 8-14-79 - Memo to JNB from BP
re: Sampling
- 3-28. 8-15-79 - Memo to Dwight Lee from JNB
re: Apache Oro Company
- 3-29. 8-15-79 - Memo to JNB from State Mine Inspector
- 3-30. 8-15-79 - Letter to JNB from Ironstone Development Co.
- 3-31. 8-18-79 - Memo to Dwight Lee from JNB
re: Daily Reports
- 3-32. 8-19-79 - JNB field notes
- 3-33. 8-20-79 - Letter to William Night from Sidney Williams
- 3-34. Barrel Test Sampling Report by E.W. Watterson
- 3-35. Ironstone Ledger sheets 8/8/79 - 8/31/79
- 3-36. Memo to Dave Rabb from JNB (8-22-79)
re: Sulfurite Minerals from Contention Area
- 3-37. 8-22-79 - Memo to Al Watterson from JNB
re: Notebooks

Volume III - August to September, 1979
Cont'd

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- 3-38. 8-23-79 - JNB field notes
- 3-39. 8-21-79 - Letter to DEN from Charles Escapula
re: Method used on Shaker Tests
- 3-40. 8-27-79 - Letter to Dick Newlett from U.S. Dept. of Labor
re: Federal inspection
- 3-41. Conversation with John Dean
- 3-42. 8-27-79 - Memo to JNB from John Dean
re: Data on Tranquility, Empire + Ingham Dumps
- 3-43. 8-31-79 - Letter to Tom Schloss from JNB
re: Cash disbursements
- 3-44. 8-23-79 - Letter from Dave Rabb to JNB
re: Students to visit Tombstone
- 3-45. 8-18 - 8-24 - Mining Costs
- 3-46. 8-11 - 8-17 - Mining Costs
- 3-47. Balance sheet
- 3-48. 8-28-79 - Memo to JNB from John Dean
re: Refractory High-manganese Ore, Tombstone
- 3-49. 9-1-79 - Letter to JNB from John Dean
re: Statement for services performed
- 3-50. 9-1-79 - Letter to John Dean from JNB
re: Response to J.D. Dean memo of 8/28/79
- 3-51. 9-4-79 - Memo to JNB, Tom Schloss + Dwight Lee from JEW
re: Daily Reports for week ending 8/17/79
- 3-52. 9-4-79 - Memo to JEW + JNB from CDB
re: Land acquisition

Volume III - August to September, 1979
Cont'd

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- 3-53. 9-5-79 - Memo to Al Waterson from JNB
re: Jim Aspell mine truck
- 3-54. 9-6-79 - Letter to Dave Rabb from JNB
re: Request for student visit
- 3-55. 9-6-79 - List of materials sent to Tom Adlross &
John Dean
- 3-56. 9-6-79 - Memo to JNB from MNC
re: Slides
- 3-57. 9-6-79 - Memo to Tom Adlross from JNB
re: Transmittal of material
- 3-58. 9-7-79 - Memo to TEW from MCB
re: Maps
- 3-59. 9-8-79 - Memo to Tom Adlross from JNB
re: Transmittal of materials
- 3-60. 9-4-79 - Receipts from State of Maine Mine to DEA
- 3-61. 9-10-79 - Memo to JNB re: prices on Sodium Cyanide
- 3-62. 9-10-79 - Daily Plant Procedures
- 3-63. 9-10-79 - Mine Daily Tonnages
- 3-64. 9-10-79 - Memo to JNB & TEW
re: Density of Ore
- 3-65. 9-11-79 - Memo to JNB from TEW
re: Conversation w/ Dusty to Scapule - back injury
- 3-66. 9-11-79 - Memo to JNB from TEW
re: Sodium cyanide - price increase
- 3-67. 9-11-79 - Memo to JNB from TEW
re: Purchase of A.A. unit

- 3-68. 9-12-79 - Memo to JNB from JEW
re: Use of High Frequency electromagnetic probing to detect anomalies
- 3-69. 9-11-79 - Memo to JNB from John Dean
re: Tombstone Silver + Gold
- 3-70. Report from State Mine Inspector
- 3-71. 9-20-79 - Memo to JNB from JEW
re: Tombstone Supplies
- 3-72. 9-21-79 - Memo to JNB from JEW
re: Requisition Orders
- 3-73. 9-21-79 - Memo to Tom Schloss from JNB
re: Transmittal of materials
- 3-74. 9-24-79 - Memo to JNB from JEW
re: Tombstone apartment rental
- 3-75. 9-24-79 - Letter to JNB from Jay Kittle
re: Tombstone Project
- 3-76. 9-20-79 - Report by Watterson on Screening and Crustling of 71 Minerals Heap
- 3-77. 9-25-79 - Memo to JNB from JEW
re: Supplies + Travel
- 3-78. 9-26-79 - Memo to JNB from JEW
re: Chemicals calcium disbursements
- 3-79. 9-27-79 - Memo to JNB from JEW
re: Telephone conversation with Dusty Escapule 9/26/79
- 3-80. 9-27-79 - Memo to JNB from JEW
re: Telephone conversation with Al Watson

Volume III - August - September, 1979
Contd

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- 3-81. 9-27-79 - Memo to JNB from JEW
re: Telephone Conversation with Dusty Escapula
- 3-82. 9-24-79 - Assay results - Skyline Labs
- 3-83. 9-28-79 - Memo to JNB from JEW
re: Progress Report
- 3-84. Budget sheet

Sept. 1919

TOMBSTONE EXPLORATION - MAIN ACCOUNT

Account # -16344

Balance Forward

\$ 83.1

APPROVED

SEP 28 1979

By

[Signature]

<u>DATE</u>	<u>PAID TO</u>	<u>PURPOSE</u>	<u>CHECK #</u>	<u>AMOUNT</u>
9/25/79		VOID	1110	VOID
9/25/79	Steve Henderson (P.O. 5618)	Contract Labor	1111	115.50
9/26/79		DEPOSIT-wired into account		10,000.00
9/26/79	Carlson Utility Supply (P.O. 5611)	Supplies	1112	42.29
9/26/79	McKesson Chemical (P.O. 5608)	Chemicals	1113	2,853.50
9/26/79		VOID	1114	VOID
9/26/79	Tucson Bearing Co. (P.O. 5626)	Supplies	1115	12.11
9/26/79	Cooper Asphalt (P.O. 5613)	Equipment	1116	89.04
9/26/79		VOID	1117	VOID
9/26/79	John G. Dean	Contract Labor	1118	4,284.00
9/26/79	APS	Electric bill	1119	15.91
9/26/79	APS	Final bill- Acct. #4804113400155	1120	1.24
9/26/79	Skyline Labs, Inc. (P.O. 5641)	Assay	1121	19.65
9/26/79		VOID	1122	VOID
9/27/79	Nellie Cashman Apts.	Rent	1123	145.60

805

3-84

<u>DATE</u>	<u>TO</u>	<u>PURPOSE</u>	<u>CHK #</u>	<u>AMOUNT</u>
9/27/79	N.L. Treating Chemicals (P.O. 5601)	Supplies	1124	443.29
9/27/79	U.S. Postmaster	Return receipt pkg.	1125	1.66
9/28/79	W.W. Grainger, Inc. (P.O. 5636)	Equipment	1126	79.89
9/28/79	U.S. Dept. of the Interior (P.O.5590)	Recording fees	1127	90.00
9/28/79	Merchandise Research (P.O. 6294 & 5676)	Supplies	1128	86.45
9/28/79	Ariz. State Land Dept. (P.O. 5588)	Application fees	1129	75.00
9/28/79	Ariz. State Land Dept. (P.O. 5587)	Prospecting permit Rental	1130	560.00
9/28/79	Cochise County Recorder (P.O. 5586)	Recording fees	1131	9.00

BALANCE:

1,158.98

Expenses:

Mountain Bell	69.74
Payroll: Week ending 9/28/79 (approx.) (Dusty & Eldred's wages)	560.00
Martin Peroitte wages 7 days @ 8hr./day x \$4.00/hr.	224.00
Bill Henderson wages 3 days @ 8hr./day x \$4.00/hr.	96.00
Steve Henderson 17hrs. @ \$7/hr.	119.00
Expenses for Dusty & Eldred (est.)	100.00
Road Grader est.-Robert Cowen	128.00
D-6B Cat Rental-Robert Cowen /hrs. at \$25.00/hr.	718.00
Merchandise Research	90.00
Skyline Labs Assay work (est.)	150.00
Postage & Insurance for ppts	20.00

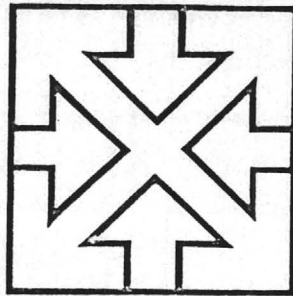
708

Expenses (Con't)

Payroll: Week ending 10/5/79 (approx.) (Dusty & Eldred's wages)	560.00
Martin Periotte wages 2 days @ 8hrs/day x \$4.00/hr.	224.00
Bill Henderson wages 7 days @ 8hrs/day x \$4.00/hr.	224.00
Day ppt. Plant Operator 7 days @ 8/hrs/day x \$4.00/hr.	224.00
Steve Henderson 17 hrs @ \$7.00/hr.	119.00
Expenses for Dusty & Eldred (est.)	100.00
Transportation of Chemicals Bariod NL Industries (est.)	35.00
Two filing cabinets, 2 drawers @ \$50.00/ea.	100.00
AMOUNT REQUIRED TO COVER EXPENSES:	\$2,701.76

Consultants in:

- base & precious metals • uranium
- coal • geothermal • environment
- remote sensing • color aerial photography
- interpretation-image processing
- worldwide Mobilization



4500 E. Speedway, Suite 14
Tucson, Arizona 85712
(602) 795-6097

James A. Briscoe, President
Registered Professional
Geologist

**Southwestern
Exploration Associates, Inc.**

September 28, 1979

Tombstone Development Corporation
Messrs. Bill Hight and Frank Gallup
P.O. Box 1445
Grand Island, Nebraska 68801

RE: PROJECT 418 TOMBSTONE PROJECT, FILING OF ANNUAL ASSESSMENT WORK FOR 1979, AND REQUIRED FILING OF LOCATION PAPERS AND ASSESSMENT WORK WITH THE BUREAU OF LAND MANAGEMENT PRIOR TO OCTOBER 21, 1979 DEADLINE

Dear Messrs. Hight and Gallup:

This letter is to inform you that as of this date, September 28, 1979, all required legal filing of Annual Assessment work has been preformed and sent to the Cochise County Recorder's office. In addition, copies of all Location Notices and 1979 Annual Assessment Records have been mailed to the Phoenix office of the Bureau of Land Management for filing as per regulations under Section 3833.1-2a&c, 3833.2-1a&c of the Organic Act Regulations.

Prior to the completion of this working day, our office will have also filed a claim map with the Cochise County Recorder's Office in accord with Arizona's Revised Statutes, Section 27-210. (See condensed regulations from Digest of Mining Claim Laws, by Robert G. Pruitt, Jr., which are enclosed.) Included also find on original unrecorded copy of the Proof of Labor form for your records.

Work has thus progressed to completion on the T.D.C. claim block, and has been filed prior to my estimate. (As per our telephone call of Tuesday September 19, 1979.)

As mentioned in my previous correspondence of September 21, 1979, upon receipt of all recorded documents by our office, a package of Assessment records, maps, and B.L.M. Mining Claim serial numbers will be complied and sent to your address for your records.

Respectfully submitted,

Thomas E. Waldrip Jr.

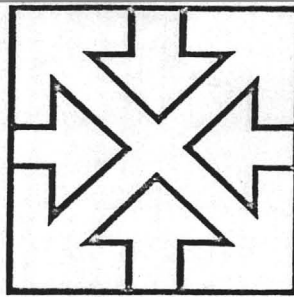
Thomas E. Waldrip, Jr.
Land Division Manager

TEW:mfh
P-418

802

Consultants in:

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- coal • geothermal • environment
- remote sensing • color aerial photography
- interpretation-image processing
- Worldwide Mobilization



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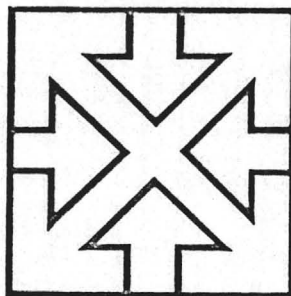
Thomas E. Waldrip, Jr.
Land Division Manager

TEW:mfh
P-418

801

Consultants in:

- base & precious metals • uranium
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- remote sensing • color aerial photography
- interpretation-image processing
- worldwide Mobilization



2418
4500 E. Speedway, Suite 14
Tucson, Arizona 85712
(602) 795-6097

James A. Briscoe, President
Registered Professional
Geologist

Southwestern Exploration Associates, Inc.

September 28, 1979

U.S. Department of the Interior
Bureau of Land Management
2400 Valley Bank Center
201 N. Central Avenue
Phoenix, Arizona 85073

Attention: Records Section. Robert Peterson

Re: Recording of Certificates of Location and Annual Proof
of Labor for T.D.C. Unpatented Lode Mining Claim Group.

Dear Mr. Peterson,

Enclosed, please find copies of the recorded Certificates of Location for the T.D.C. unpatented lode mining claim group. These claims are located in the Tombstone Mining District, Cochise County, Arizona.

The claim group is accompanied by a location map depicting the claim locations with reference to appropriate surveyed features, and set forth the boundaries and positions of the individual claims. Quarter section(s), descriptions with township(s), ranges(s), meridian and state are provided with each claim location certificate, along with the current name and address of the owner.

A copy of the Annual Proof of Labor for the above referenced claims is enclosed. For information related to local county filing and legal descriptions for originally recorded location notices, please see Attachment 1 of Annual Assessment Work instrument.

We are requesting the recording of these documents with your state (regional) office, so that we will be in compliance with Title 43 C.F.R., Subparts 3833.1-2 (a) & (c), 3833.2-1 (a) and 3833.2-2, concerning the recording of the Certificate of Location and record of annual assessment work for mining claims located on public lands before October 21, 1976.

A check for \$90.00 is also enclosed to cover the cost of the recording fees.

Thank you for your assistance.

Respectfully submitted,

Clark D. Green

Clark D. Green
Geologist/Landman

CDG/slr
P-418

encs. 18 Certificates of Location
Proof of Labor Document
S.E.A. Check #
Purchase Order #

Southwestern Exploration Associates
4500 E. SPEEDWAY, SUITE 14
TUCSON, ARIZONA 85712
(602) 795-6097

DAY/TIMER

Time-Saver

3-83

LETTER

IN REFERENCE TO: PROGRESS AT
TOMBSTONE P-418

REVIEWED

SEP 28 1979

By *[Signature]*

FIRST CLASS MAIL INTER-OFFICE

FOR J.A. Briseoe
TE # 14124

HOW TO USE THIS

DAY/TIMER

Time-Saver LETTER TO SAVE TIME.

Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

DATE: 9.28.79

FOLD

Prey pond assay values for period 3:00 pm to 6:00 am
9/26/79 & 9/27/79 AVERAGED. .50 g/ton Ag & .015 Au
eff run. 4 Ag g/ton solution. w/o cyanide. RAN
w/ NADH for approximately 30 hrs system neutralized
& pH up to normal. STARTED ppt. plant on 10:00 am
Thur. 27, 1979 SEVERAL MINOR INTERRUPTION OF 2 hrs
but have run almost continuously since then. PLANT
THROUGH-PUT APPROXIMATELY 25 gal/min or 6.23 g/ton/hr
.00 x 150 tons/day. Have hired or ARE trying to hire
3 additional people to run plant at \$4.00/hr. Will
BE RUNNING BACKHOE w/ STEVE HENDERSON THIS WEEKEND. ON
TRENCHES. A. #1870 check is being sent here by Apache
Powder Co. to reimburse for NON-USE OF DEPOSIT MONIES

FOLD

FOLD

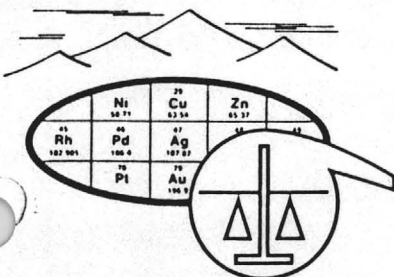
REPLY

TRAK ABOUT meeting w/ Tom AN EQUIP. FRONT END LOADER
FOR CONSTRUCTION OF PADS & POND DATE: B. S. BEE SALVAGE DOUBLE
DRUM WINCH etc. money? Tom

9/28/79 Thanks Tom. we should get the
list of disbursements & payables out to
NY this afternoon. *[Signature]*

BY

798



SKYLINE LABS, INC.
 P.O. Box 50106 • 1700 West Grant Road
 Tucson, Arizona 85703
 (602) 622-4836

RECEIVED SEP 28 1979

3.82
 Charles E. Thompson
 Arizona Registered Assayer No. 9427
 William L. Lehbeck
 Arizona Registered Assayer No. 9425
 James A. Martin
 Arizona Registered Assayer No. 11122

FILE

R 418

CERTIFICATE OF ANALYSIS

ITEM NO.	SAMPLE IDENTIFICATION	Au* %	Ag* %	H ₂ O %						
	Case 418	0.529	27.52	22.45						

*Reported on Dry Weight Basis.

TO:
 SOUTHWESTERN EXPLORATION ASSOCIATES
 4500 E. Speedway, Suite 14
 Tucson, Arizona 85712
 Attn.: James Briscoe

REMARKS:
 Umpire quality analysis
 P.O. #5640

CERTIFIED BY:



DATE REC'D:
 9/19/79

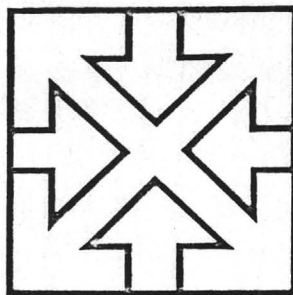
DATE COMPL.:
 9/24/79

JOB NUMBER:
 TFO 065

797

Consultants in:

- base & precious metals • uranium
- coal • geothermal • environment
- remote sensing • color aerial photography
- Interpretation-image processing
- Worldwide Mobilization



4500 E. Speedway, Suite 14
Tucson, Arizona 85712
(602) 795-6097

James A. Briscoe, President
Registered Professional
Geologist

**Southwestern
Exploration Associates, Inc.**

September 27, 1979

Christine Rhodes
Cochise County Recorder
Office of the Recorder
Bisbee, Arizona 85603

Re: Filing of Annual Proof of Labor Document For The T.D.C.
Claim Group

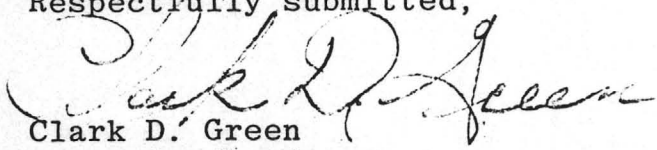
Dear Ms. Rhodes,

Enclosed, please find the Proof of Labor document for the T.D.C.
claim group located in the Tombstone Mining District, Cochise
County, Arizona.

We are requesting that this affidavit be recorded in your county,
so that we will be in compliance with Section 27-208 of the legal
statutes for the state of Arizona, and certain regulations as
outlined in Title 43, United States Codes, Section 3833.2-2 (a),
concerning filing of annual assessment work within the county of
claim group recordation.

A check for \$3.00 is also enclosed to cover the cost of the re-
cording fee.

Respectfully submitted,


Clark D. Green
Geologist/Landman

CDG/slr
P-418

encs. Proof of Labor Document
S.E.A. Check #4714
Purchase Order # 5599

DAY/TIMER
Time-Saver

LETTER

IN REFERENCE TO: P. 418 update
on handling 70 min lower
bench

FIRST CLASS MAIL INTER-OFFICE

Environmental Exploration Associates
150 E. SPEEDWAY, SUITE 34
TUCSON, ARIZONA 85719
(520) 438-5717

FOR J. A. Bruscia
Re telephone call to D. Escapule 9-27-79
T.C. # 13785

HOW TO USE THIS

Time-Saver LETTER TO SAVE TIME.
Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

DATE: 9-27-79 FOLD

Jm this was a short call at 11:45 am to check on conditions down at Tombstone. Tom Schlon was still there. Told Dusty why sprinkler heads had not come down (backordered): PH coming up and stabilizing didn't know what it was due to talking to T.S. & had not had time to check. Tried to run plant this A.M. and seem they no longer are having problems w/ foam. D.E. said he'd call back but assays of eff. this A.M. were running close to .5 dry of 1 ton solution & .017 of Au. (This I believe was close to the initial values returned on test of ore moved from Contention dump.) Gold closed on Europ. market at 395.50 9-27-79 could not hear Ag but sounded like

REPLY

18. something
9/27/79 Thanks Tom

Tom DATE: _____

BY

DAY/TIMER
Time-Saver

LETTER

IN REFERENCE TO: P. 418
UPDATE ON LEACH 71 MIN
LOWER BENCH

FIRST CLASS MAIL INTER-OFFICE

Environmental Regulation Associates
430 E. SPEEDWAY, SUITE 11
TUCSON, ARIZONA 85712
(520) 753-0327

FOR J. A. Bruscoe
RE. telephone conversation w/ Al WATERSON
ON 9.26.79 T.C. # 13783

HOW TO USE THIS
Time-Saver LETTER TO SAVE TIME.
Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

DATE: 9.27.79

Jim this is just a follow-up memo on my call I talked to you, T. Schlom & Dr Dean. They are having problems with foaming in the deaeration tower shorting out the probes. This plant will not run well. Have been in contact w/ h. Escapula & he suggested we recirculate w/ NaOH to try & counteract chemicals Dick had used on heap since we were also having low pH ± 6 & high NaCN consumption. Also having problems with CaCO_3 build up so he had call Baroid to check out chemical dispersants settled on Baroid Chem S-35 @ \$443.29 per 55 gal drum. smallest quantity we can get. (will last one to two months). Transportation not included in fig. This will be shipped to Tucson & then transferred to Roadway for shipment to Tombstone.

REPLY

Have run samples of eff of 9:25 79 near/let returns

7:00 AM	.011 Au	.21 Ag Eff.
9:00 AM	.008 Au	.24 Ag Eff.
9:00 AM	.002 Au	.10 Ag Preg pond.

All figures these values to come up considerably when pH situation is rectified

9/27/79 Thanks Tom

794

3-79

DAY/TIMER
Time-Saver

Southwestern Exploration Associates
4300 E. SPEEDWAY, SUITE 117
TUCSON, ARIZONA 85712
(602) 735-6117

LETTER

IN REFERENCE TO: P-418
UPDATE ON LEAKING 71 MEN
HOUSE BLEND

FIRST CLASS MAIL INTER-OFFICE

FOR *G.A. Brusci*
R. Telephone conversation with
Dusty Edrapals 9-26-79 TC# 13784

HOW TO USE THIS

DAY/TIMER
Time-Saver LETTER TO SAVE TIME.

Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

DATE: *9-27-79*

Jim this is a follow up memo on items I've discussed with you & Tom Sellers. Dusty need addition sprinkler head. (could not get on back-order). He said that they were getting samples from the top of 71 men heap to test for NaOH consumption. I learned that after the initial problems with the foaming on 9-25-79 in deaeration chamber that only solutions of about pH 8-9 NaOH were recirculated during the period of 7:00 pm 9-25-79 to 7am 9-26-79 at that time he mixed a strong solution 100" of NaOH & pH of 2.12 to circulate on heap. He fig. that about 200#s of NaOH should neutralize the heap on which Dick had used H₂SO₄ & HNO₃ perpo & salt. Would try running

REPLY

plant 9-27-79 during A.M. needed to get 3" couplers to fix west side water line.

9/27/79 Thanks Tom

BY

793

DAY/TIMER
Time-Saver

Environmental Exploration Associates
1001 E. SPEEDWAY SUITE 14
TUCSON, ARIZONA 85712
(602) 551-1107

LETTER

IN REFERENCE TO: *P418 CHEMICALS
CALCIUM DISPERSANTS*

FIRST CLASS MAIL INTER-OFFICE

FOR *J.A. Brusca*

HOW TO USE THIS

DAY/TIMER
Time-Saver LETTER TO SAVE TIME.
Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

DATE: *9.26.79*

*Jim here is the ^{Requisition} ~~order~~ for Caroid Chem 5-35
for Tombstone - it is quite expensive ^{\$443.27} ~~out~~ ^{55 gal} ~~drum~~
Al said it should be enough to last
one to 2 months under normal conditions
We have as short as 6 days delivery time
to a probable 2 weeks. Sect. suggested
two weeks from placing the order as a
safe bet.*

REPLY

BY *Tom*
DATE: *9/27/79*

Thanks Tom.

DAY/TIMER

Time-Saver

LETTER

IN REFERENCE TO:

D-418 Supplies and travel to Tombstone

Southwestern Exploration Associates
4500 E. SPEEDWAY, SUITE 14
TUCSON, ARIZONA 85712
(520) 255-6337

FIRST CLASS MAIL

INTER-OFFICE

FOR

J. A. Brusoe

HOW TO USE THIS

DAY/TIMER

Time-Saver

LETTER TO SAVE TIME.

Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

DATE:

9-25-79

FOLD

From these are there R.O. for signature. We have no money on the Tombstone account so we cannot order NaCN on these supplies; they have been included on expense list for payment, however I've requested they hold supplies for our pick-up when ever the money comes

- shaft stock for shaker screen*
- additional plastic barrels & tops which are again in stock*
- pipe fitting not available in Tombstone*

Also included are a list of equip found by Dusty & Al in Tom Boshie. I'm not

REPLY

going to be able to send a person down to Tombstone until monies are available for purchase of supplies. We need NaCN by tomorrow 9-26-79 Tom.

OK JAB

BY

791

RECEIVED SEP 21 1979

SEP 20, 1979

3-76

REVIEWED

SEP 24 1979

By

JMS

Screening and Crushing
of 71 minerals heap.

Excavator will make 4 ditch cuts on Area #1
of Heap. Samples will be taken at 10' and 20' depths.

A 50 # Barrel Test will be made of each
Screening Size.

- 1 - 1 1/2"
- 2 - 1"
- 3 - 3/4"
- 4 - 1/2"
- 5 - 1/4"
- 6 - 1/4" minus.
- 7 - PIT run.

Total 4 ditches x 7 = 28 Barrel Test @ 10' Depth.

Total 4 ditches x 7 = 28 Barrel Test @ 20' Depth.

56 Barrel Test.

These Barrel Tests will show us 2 major answers

1 - How fine an ore can be, and still percolate.

2 - If it is economically possible to reach each size.

3 - What the Leachable Ag. content of each size fraction

Depending on the above answers a selective crushing program
can be developed on sizes to be crushed and put on p

JMS 9/29/79

790

Crushing Test should start with a $1\frac{1}{2}$ " minus crushing size, and crush the oversize screenings plus the $1\frac{1}{2}$ " - 1" - $\frac{3}{4}$ " all in one unit.

The reason for crushing these sizes all at once on a $1\frac{1}{2}$ " minus crush, is that we keep the crusher jaws at least $\frac{3}{4}$ " full, therefore we will crush a portion of the smaller material which will open up more surface area.

Then Barcol Test the crushed material:

Take the remainder and screen out the $\frac{34}{100}$ " minus Barcol Test what was retained on screen.

Then attempt Barcol Test of fines.

We will know much better what sizes to crush after we obtain answers to the above.

Test Heaps will have to be run to determine actual recovery.

Then a standard crushing procedure can be determined for Areas #1, 2, 3 on Main 71 omnivibe heap.

H.W. Whitson

3-75

P-418

COREY & KITTLE, P.C.

ATTORNEYS AT LAW

BARRY M. COREY
JAY S. KITTLE
PATRICK J. FARRELL
THOMAS A. STOOPS

September 24, 1979

SUITE 509 TRANSAMERICA BUILDING
177 NORTH CHURCH AVENUE
TUCSON, ARIZONA 85701
(602) 882-4994

FILE

REVIEWED

SEP 24 1979

By 

Southwestern Exploration Associates, Inc.
4500 East Speedway, Suite 14
Tucson, Arizona 85712

Attention: James A. Briscoe

RE: Tombstone Heap Leach Project

Dear Jim:

Enclosed herewith is a discussion proposal I have prepared which may serve as the basis for talks between you and Tom Schloss concerning a transfer of management responsibilities from S.E.A. Associates, Inc. and S.E.A. Hydromet, Inc. to Schloss or some other group you may agree upon. These proposals are based on the draft of a letter you had prepared to Tom Schloss dated September 20, 1979.

You will be quick to note that the preliminary views and background information contained in your draft letter do not appear in the discussion proposal. It was my thought that these ideas could best be communicated to Tom Schloss verbally. Similarly, I have not shown on the discussion proposal the very important point that S.E.A. would retain its present interest in the project without substantial modification or dilution. I have deleted this point from the outline not because it is not important; rather, because it is so important I would like to lend to the appearance that all parties assume the present arrangements in that regard remain unchanged. Undoubtedly, the subject will come up at some point or other in your discussions.

In the event you have questions concerning either the contents of the discussion proposal or this letter, please give me a call.

Sincerely yours,


Jay S. Kittle

JSK:en
Enclosure

788

FILE

P-418

DISCUSSION PROPOSAL

September 25, 1979

REVIEWED

SEP 24 1979

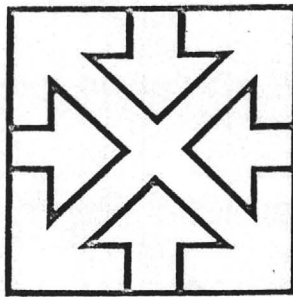
By

[Signature]

1. Southwestern Exploration Associates, Inc. and S.E.A. Hydromet, Inc. to resign from further management responsibilities on the Tombstone Project.
2. The effective date of the withdrawal to be an early, mutually agreeable date.
3. Management responsibilities to be transferred to a mutually agreeable individual or group of individuals.
4. Mr. Al Waterson and Mr. Dustin Escapule, presently under the employ of S.E.A. Hydromet, Inc., to be employed directly by the new operating entity.
5. Payroll and other expenditures to be handled from New York.
6. Suitable arrangements to be made to coordinate bookkeeping operations with the various Arizona laws which pertain to Workman's Compensation insurance and mine safety regulations.
7. Southwestern Exploration Associates, Inc. to continue to be available to the project on a consulting basis, when a suitable work plan and adequate funding have been obtained.
8. As soon as practicable, all financial records to be turned over to the new operating entity.
9. Suppliers and other interested parties to be notified concerning the change in management.
10. Southwestern Exploration Associates, Inc. to retain a record on microfilm of all project documents presently in its office.
11. Other miscellaneous details to be handled as are necessary to effectuate the management transfer.

Consultants in:

- base & precious metals • uranium
- coal • geothermal • environment
- remote sensing • color aerial photography
- interpretation-image processing
- Worldwide Mobilization



4500 E. Speedway, Suite 14
Tucson, Arizona 85712
(602) 795-6097

James A. Briscoe, President
Registered Professional
Geologist

Southwestern Exploration Associates, Inc.

September 21, 1979

Tombstone Development Corporation
Messrs. Bill Hight and Frank Gallup
P.O. Box 1445
Grand Island, Nebraska 68801

Re: Project 418, Tombstone Project, Filing of Annual Assessment Work for 1979, and Required Filing of Location Papers and Assessment Work with The Bureau of Land Management Prior to October 21, 1979 Deadline. Prepared for Program Manager, J. A. Briscoe by Project Manager T. E. Waldrip Jr., Southwestern Exploration Associates, Inc.

Dear Messrs. Hyde and Gallup,

We again appreciate your concern and warning on meeting Organic Act filing deadlines on the unpatented TDC 1 through 18 claims located in Tombstone Mining District, Cochise County, Arizona, currently under lease by ourselves and FAMCO.

We fully intend to file the Assessment Records and Location Notices with the Arizona area office of the Bureau of Land Management in Phoenix on or before September 28, 1979, approximately three weeks before the required Organic Act deadline of October 21, 1979. In addition, Assessment Work records will be filed at the same time with the Cochise County Recorder's Office, completing necessary documentation of work under Organic Act Regulations and U.S. Mining Law statutes.

Currently, work is proceeding to acquire necessary documentation of location papers from the Cochise County Recorder's Office, and Assessment Papers (Proof of Labor records) are being prepared by my staff. In addition, due to a change in the Arizona Mining Statutes (September 1978), we are preparing to file an additional map with the Cochise County Recorder's Office prior to December 31, 1979, as required by the new and revised Arizona statutes.

Messrs. Bill Hight and Frank Gallup
September 21, 1979
Page 2

Work is progressing in a timely fashion and will be filed with appropriate agencies with time to spare. Upon receipt of all recorded documents by our office, a package of Assessment records, maps, and B.L.M. Mining Claim file numbers will be compiled and sent to your address for your records.

Again, we appreciate your help and comments on the matter.

Respectfully submitted,

Thomas E. Waldrip Jr.

Thomas E. Waldrip, Jr.
Tombstone Project Manager and
Manager of S.E.A., Inc. Land Division

TEW/db
P-418
03-020

785

DAY/TIMER

Time-Saver

LETTER

IN REFERENCE TO: 2418

Tombstone Apt Rental

FIRST CLASS MAIL

INTER-OFFICE

FOR

J. A. Brusco

HOW TO USE THIS

DAY/TIMER

Time-Saver LETTER TO SAVE TIME.

Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

DATE: 9:24:79

FOLD

Jim, I can't remember if I have sent this through yet or not, but wanted to let you know Tom VanDeBrock called Friday requesting payment on apt. It was due on Sept. 15th 1979. I feel we should go ahead & pay through Oct. 15th and during this time should go ahead & see if we can get a better place at the motel etc. We also owe related taxes as indicated by Requisition order of \$5.60

FOLD

FOLD

BY

Tom

REPLY

DATE:

9/24/79

OK Tom. What I had in mind was another, more comfortable apt, wherever at a stel. Tombstone rate.

What we should do is see if we can't get a cleaning woman to come in and wash & wax floors & do what other clean up be necessary. Please handle if you get a chance.

Southwestern Exploration Associates
 200 E. SPRINGWAY, SUITE 10
 TUCSON, ARIZONA 85711
 (520) 785-6527

LETTER

IN REFERENCE TO:

p 418
Tombstone

NDD

FIRST CLASS MAIL INTER-OFFICE

FOR Tom Schloss FAMCO

HOW TO USE THIS

DAY/TIMER

Time-Saver LETTER TO SAVE TIME.

Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

DATE:

9/21/79

FOLD

Transmitted with this Note are the following:

1. Daily reports from Al Wattersson for 9/4, 5, & 6/79
pink copy
2. 3 memos from TEW from 9/11/79 pink copy
3. Damage & Restoration bond - state leases
from Tucson Realty & Trust
4. Notice to State Mine Inspector & Inspection
Report.
5. Ledger sheet showing detailed contributions
from Briscoe & FAMCO to date & cash
expenditures. (3 pages of column ledger sheets)
6. Cost projections in rough form prepared by TEW
9 pages for Sept & 9 pages for Aug. on ledger sheets.

FOLD

FOLD

REPLY

DATE:

7. Memo from CDG regarding of award of prospecting
permit for additional parcels of state land.

~~8. Draft of weekly cost projection ledger sheets from
TEW~~

8. Tombstone Exploration main acct - chart of
disbursements & cash requirements (minimum) for next
5 days.

BY

JH

783

DAY/TIMER

Time-Saver

3-72

Provision Exploration Associates
200 E. 57th Way, Suite 2
Tulsa, Okla. 74112
(918) 435-337

LETTER

IN REFERENCE TO: P-418 P-428
P-154-2

ACQUISITION ORDERS
FIRST CLASS MAIL INTER-OFFICE

FOR

J.A.B.

HOW TO USE THIS

DAY/TIMER

Time-Saver LETTER TO SAVE TIME.

Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

DATE:

9-21-79

FOLD

From here are the following R.O.'s for various projects for your approval

P-154-2 Payment of water used at Crescent drilling project. to Molycorp.

P-428 MAPS PURCHASES FOR LAND STATUS OF PYRIMID PROJECT AREA B.L.M. & COUNTY SURVEYOR'S OFFICE. NOTE 2 sets of CLAIM MAPS FROM COUNTY ONE FOR JOE M. & ONE FOR OUR USE

FOLD

P-418 PARTS FOR SET UP OF SCREEN (SHAKER)

FOLD

BY

hm

REPLY

DATE:

9/24/79

From - All approved - SLR
Routed to P.D.'s. *Cher*
for

BY

782

LETTER

IN REFERENCE TO

2411 3-71
Supplies

FIRST CLASS MAIL

INTER-OFFICE

FOR

J.A.B.

HOW TO USE THIS

DAY/TIMER

Time-Saver

LETTER TO SAVE TIME.

Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

DATE:

9:20:79

FOLD

Jim I've went ahead & wrote up these requisition orders for the Tombstone project

1ST one is for fire assay work at Skyline Labs - on ppts. sent down yesterday

2ND one is for supplies to finish off screen which Dusty is building

3RD one for Cyanide for approximately 1 months operation. this could be cut down but if we have to deliver we'll need a truck & we might as well make good use of it.

stop all we to be ordered

I've a couple more small < \$100 ones but need more info from Dusty & Al on

REPLY

DATE:

9/20/79

all oked JAB

HERBERT E. ROBERTS
Assessor, County of Kern

RECEIVED SEP 2 1979

Administration and Courts Building
1415 Truxtun Avenue
Bakersfield, California 93301
Telephone (805) 861-2311



September 19, 1979

Mr. James A. Briscoe
4500 E. Speedway, Suite 14
Tucson, Arizona 85712

Attention of: Mr. Clark D. Green

Dear Mr. Green:

As per our conversation this date, this is to confirm that the Kern County Assessor's Office is no longer valuing non-producing, unpatented mining claims. This will remain as our procedure except in the case of improvements located on the property which may be assessed as a possessory interest improvement.

If you have any further questions, please feel free to contact me.

Very truly yours,

HERBERT E. ROBERTS, COUNTY ASSESSOR

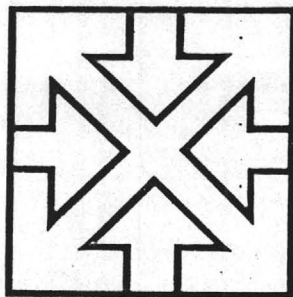
Janel G. Harvey

Janel G. Harvey, Account Clerk III
Natural Resources Section

JGH;md

Consultants in:

- base & precious metals • uranium
- coal • geothermal • environment
- remote sensing • color aerial photography
- interpretation-image processing
- Worldwide Mobilization



4500 E. Speedway, Suite 14
Tucson, Arizona 85712
(602) 795-6097

James A. Briscoe, President
Registered Professional
Geologist

**Southwestern
Exploration Associates, Inc.**

September 19, 1979

John Dean
Dean Associates
Elmdale Road - Box 230
Rural Route 2
North Scituate, Rhode Island 02857

Dear Mr. Dean,

Please find enclosed, for your perusal, one copy of the Barrel Test Sampling Procedure in regards to the Tombstone project.

This information was supplied to us by Mr. Al Watterson, if there are any questions please contact us at once.

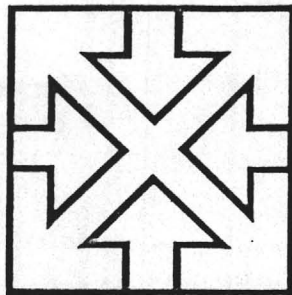
Sincerely,

Susan L. Rue
Purchasing

/slr
P-418
enc.

Consultants in:

- base & precious metals • uranium
 - coal • geothermal • environment
 - remote sensing • color aerial photography
 - interpretation-image processing
- Worldwide Mobilization



4500 E. Speedway, Suite 14
Tucson, Arizona 85712
(602) 795-6097

James A. Briscoe, President
Registered Professional
Geologist

**Southwestern
Exploration Associates, Inc.**

September 19, 1979

Tom Schloss
FAMCO
1700 Broadway
22nd Floor
New York, New York 10019

Dear Mr. Schloss,

Please find enclosed, for your perusal, one copy of the Barrel Test Sampling Procedure in regards to the Tombstone project.

This information was supplied to us by Mr. Al Watterson, if there are any questions please contact us at once.

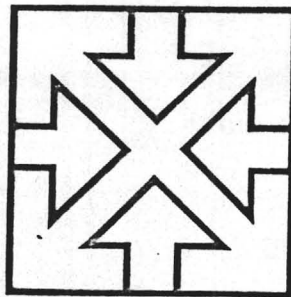
Sincerely,

Susan L. Rue
Purchasing

/slr
P-418
enc.

Consultants in:

- base & precious metals • uranium
- coal • geothermal • environment
- remote sensing • color aerial photography
- interpretation-image processing
- Worldwide Mobilization



4500 E. Speedway, Suite 14
Tucson, Arizona 85712
(602) 795-6097

James A. Briscoe, President
Registered Professional
Geologist

**Southwestern
Exploration Associates, Inc.**

September 20, 1979

Ms. Gaylord
Mountain Bell
11 Bisbee Road
Bisbee, Arizona 85603

Re: Deposit For Telephone in 71 Minerals Building in Tombstone,
Arizona

Dear Ms. Gaylord,

Please find enclosed our check #1090, in the amount of \$600.00, dated September 20, 1979. This is the deposit for a telephone which is to be installed in the 71 Minerals Building in Tombstone, Arizona on Tuesday the 25th of September, 1979.

If there is anything else we can do for you or any other information you need do not hesitate to give us a call; and once again thank you for your patience and cooperation in this matter.

Sincerely,

Susan L. Rue

Susan L. Rue
Purchasing

/slr
P-418
enc. Check #1090

REVIEWED

SEP 18 1979

By

JMB

FILE

Tombstone

FOR DATA ON ANY ITEM
IN THIS SECTION
PLEASE USE PEP-PER
INQUIRY CARD ON PAGE 16.

Production Equipment PREVIEW

776

SEP 18 1979

By AFBR É S U M É

John Christopher Whittle
 8831 E. Seventh Street
 Tucson, Arizona 85710
 (602) 885-2939

Age: 31
 Height: 6'0" Weight: 240
 Health: Very Good
 Marital Status: Single

EXPERIENCE

Senior Technical Representative Hercules Incorporated 1976 to present
 San Francisco, Ca.

- * Responsible for the development and implementation of the marketing plan for Hercules chemical reagents to the mineral processing industry in the western United States.
- * Experienced in the recovery of copper, molybdenum, potash, barite, tungsten, and uranium.
- * Chemical experience in frothers, water soluble polymers, and fatty acid collectors.
- * Taught basic mineral processing techniques to new sales personnel during expansion of Hercules sales program.

Technical Representative Hercules Incorporated 1970 to 1976
 Oak Brook, Illinois

- * Responsible for the marketing of water soluble polymers in a five state area.
- * Sales volume in 1976: \$2,500,000.
- * Industry experience in pharmaceuticals, cosmetics, and building materials.
- * Coordinated activities of interdepartmental sales of water soluble polymers to the latex paint industry.

Sales Service Trainee Hercules Incorporated 1969 to 1970
 Hopewell, Virginia

- * Responsible for the laboratory investigation of product quality complaints and product/application studies for water soluble polymers.
- * Supervised the work of 2 laboratory technicians.

EDUCATION

Widener University
Chester, Pa.

1965-1969

Earned BS in
Engineering

- * Majored in Chemical Engineering
- * Secretary of AIChE chapter
- * Sigma Pi Sigma
Physics Honor Society

ORGANIZATIONS

- * Current member of the Society of Mining Engineers of AIME.
- * Past House Chairman of Chicago Chapter; Society of Cosmetic Chemists (1975-1976).
- * Past member of the Federation of Societies for Paint Technology, and member of Meetings Committee for 1973 Annual Meeting.

From the Desk of ...

Jim Briscoe

Tombsdon File Date: 9/18/77

REVI
SEP 1
By [initials]

- For your information or interest.
- For your future consideration.
- Please note and destroy.
- Please supply more details.
- Please advise present status.
- Please take necessary action.
- Please investigate and report.
- Please write reply for my signature.
- Please reply. Send copy to me.

- For your comments.
- For your signature.
- For your approval.
- For immediate action.
- For your files.
- Please note and file.
- Please note and return.
- Please note and see me.
- Please advise.

M E

Age: 31
Height: 6'0" Weight:
Health: Very Good
Marital Status: S

Notes:

*J. C. Porter's
Friend*



incorporated
co, Ca. 1976 to

t and implementation
s chemical reagents t
the western United S

opper, molybdenum, B

Over, please.

water soluble polym

... processing techniques to new sal
... expansion of Hercules sales program.

Technical
Representative

Hercules Incorporated
Oak Brook, Illinois 1970 to 19

* Responsible for the marketing of water soluble polymers
in a five state area.

* Sales volume in 1976: \$2,500,000.

* Industry experience in pharmaceuticals, cosmetics, and
building materials.

* Coordinated activities of interdepartmental sales of
water soluble polymers to the latex paint industry.

Sales Service
Trainee

Hercules Incorporated
Hopewell, Virginia 1969 to 1970

* Responsible for the laboratory investigation of product
quality complaints and product/application studies for
water soluble polymers.

* Supervised the work of 2 laboratory technicians.

3-70



Office of State Mine Inspector

705 West Wing, Capitol Building
Phoenix, Arizona 85007
602-255-5971

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 (705 West Wing, Capitol Building, Phoenix, Arizona 85007) of our intent to start/stop (please circle one) a mining operation.

COMPANY NAME Tombstone Exploration Corp.

CHIEF OFFICER Thomas Schloss

COMPANY ADDRESS _____

COMPANY TELEPHONE NUMBER (212) 738-0032

MINE OR PLANT NAME Contention Mine & 71 Minerals leach area

MINE OR PLANT LOCATION (including county and nearest town, as well as directions for locating by vehicle)

Tombstone, Cochise county

71 Minerals plant "on the side of

the hill.", Contention Mine & 71 Minerals leach area

TYPE OF OPERATION open pit PRINCIPAL PRODUCT silver and gold

STARTING DATE July 1979 CLOSING DATE _____

DURATION OF OPERATION _____

PERSON SENDING THIS NOTICE _____

TITLE OF PERSON SENDING THIS NOTICE _____

DATE NOTICE SENT TO STATE MINE INSPECTOR _____

PLEASE NOTE: Any operation found operating, without having sent this notice to the Arizona State Mine Inspector, will be charged with a petty offense.

712



Office of State Mine Inspector

705 West Wing, Capitol Building
Phoenix, Arizona 85007
602-255-5971

RECEIVED SEP 15 1979

HEALTH AND SAFETY INSPECTION REPORT

COMPANY NAME: SEA HYDROMETALLURGY
MINE/PLANT NAME: Contention Mine & 71 Minerals Leach Area
ADDRESS: 4500 East Speedway, Suite 14
Tucson, Arizona 85712

PHONE NUMBER: 795-6097 ID #:

INTRODUCTION: This report is based on an inspection made pursuant to Arizona Revised Statutes 27-124 and 27-128.

TYPE OF INSPECTION: DATE OF INSPECTION: August 27, 1979

INSPECTION #: 1

GENERAL INFORMATION:

EMPLOYMENT: 3 Full-Time
1 Part-Time

WORK SCHEDULE:
Hours per shift: 8
Shifts per day: 1
Days per week: 5

COMPANY OFFICIALS:

Jim Briscoe, President
Tom Waldrip, Assistant Manager
Al Watterson, Plant Superintendent
Dustin Escapule, Mine Superintendent

TYPE OF OPERATION: Open Pit

NEAREST TOWN: Tombstone

PRINCIPAL PRODUCT: Silver

COUNTY: Cochise

INSPECTION PARTY: Dustin Escapule, Mine Superintendent
Vernon Dale, Deputy Mine Inspector

NOTE: Please complete the enclosed "Notice to State Mine Inspector" form and return it to this office. (For Contention Mine)

cc: SEA HYDROMETALLURGY

6/79

771

SEA HYDROMETALLURGY
Contention Mine & 71 Minerals Leach Area
8/27/79

NOTE: A backhole resting on the footwall side of the Contention vein is recovering ore from a shallow open cut. Underground markings have been opened up. The footwall appears to be reasonably firm. Some old mine maps have been recovered. It was recommended that the old mine workings be tied to the present surface.

/s/ Vernon Dale
Deputy Mine Inspector



Office of State Mine Inspector

705 West Wing, Capitol Building
Phoenix, Arizona 85007
602-255-5971

RESPIRABLE MASS DUST MEASUREMENT METHOD

Our sampling incorporates the use of a Model RDM-101 Respirable Dust Monitor, an advanced instrument designed for on-the-spot measurements of mass concentrations of the respirable fraction or the total mass loading of dust particles.

The instrument utilizes a two-stage collection system for respirable dust measurements. (For total dust determination, the precollector is not used.) The first stage consists of a cyclone precollector for the retention of the nonrespirable fraction of the dust. The precollector retains essentially all particles larger than about 10 microns in diameter (spheres of unit density) and passes all particles smaller than 2 microns. Particles not retained by the cyclone are then collected by the second stage of the instrument. The second collection stage consists of a circular nozzle impactor-beta absorption assembly with a manually operated indexing polyester impaction disc. The dust collected by impaction on the thin plastic film increasingly absorbs the beta-radiation reaching a Geiger detector from a carbon-14 source.

The all-solid-state electronic programming and computing circuit provides the operator with a read-out directly in the units of mass concentration of air (milligrams per cubic meter).

The normal sampling time is 7 minutes, but this can be varied.

Measurements taken during this inspection follow.

Time in State Title Disposition
RESPIRABLE DUST MEASUREMENT REPORT
 (GCA 7 minute sample, unless otherwise noted)

INSPECTION DATE: August 27, 1979

COMPANY: SEA HYDROMETALLURGY

INSPECTED BY: Vernon Dale
Deputy Mine Inspector

MINE/PLANT: Contention Mine & 71 Minerals Leach Area

AMPLE NUMBER	LOCATION	DRY TEMP. (F°)	R.H. (%)	CONDITION OR OPERATION	DUST COUNT (mg/m ³)	TLV (mg/m ³)	COMMENTS:
1.	Cab of International 3964 Series B Backhoe	94	12	Mucking ore from a shallow open cut into truck	0.53	2.5	Steve Henderson, Operator
2.	International Truck	94	12	Hauling ore from pit to pad	0.38	2.5	Steve Henderson, Driver

768

Office of State Mine Inspector

NOISE EXPOSURE REPORT

INSPECTION DATE: August 27, 1979

COMPANY: SEA HYDROMETALLURGY

INSPECTED BY: Vernon Dale
Deputy Mine Inspector

MINE/PLANT: Contention Mine & 71 Minerals Leach Area

READING NUMBER	LOCATION	SAMPLING TIME IN MINUTES	READING IN dBA	TLV IN dBA	NUMBER OF MEN EXPOSED	COMMENTS
1.	Cab of International 3964 Series B Backhoe	+ - 5	84-87 Impact 91	90	1	Steve Henderson, Operator
2.	International Truck	+ - 6	80-93	90	1	Loaded downhill
			75-81	90	1	Dumping
			85-92	90	1	Empty uphill

197



BRUCE BABBITT
GOVERNOR

RECEIVED SEP 19 1979

Arizona
State Land Department

1624 WEST ADAMS
PHOENIX, ARIZONA 85007
602 - 271-4634



OFFICE OF
STATE LAND COMMISSIONER

September 14, 1979

Southwestern Exploration Associates, Inc.
4500 E. Speedway, Suite 14
Tucson, Arizona 85712

Re: Application for Prospecting Permit No. 76128

Gentlemen:

This pertains to the above referenced prospecting permit application covering Lot 1; NENW; SE: Section 30, Township 20 South, Range 22 East, that was received in this Department at 8:00 a.m. on April 26, 1979.

This is to advise that your application has been denied due to the fact that the offeree paid the required rent and furnished bond.

Sincerely,

Barbara Ann Burg
Land Case Examiner

766

RECEIVED SEP 14 1979

Sept. 11, 1979 3-69

Memo to: J. A. Briscoe, SEA; cc: T. H. Schloss, FAMCO.

From : J. G. Dean

Subject: Tombstone Silver and Gold Project - Plans.

REVIEWED

SEP 14 1979

By JGD

Dear Jim:

Following up on our phone conversation yesterday, there seems to be general agreement that there is vast potential for silver, gold, and possibly other metal production in the Tombstone area. The big challenge is how to put together a program with the right elements to assure success through cumulative progress.

The program I keep visualizing has a big component of very astute and highly professional geology capable of building on past foundations and innovatively extending far beyond them, coupled with a similar high quality and professionally innovative metallurgical extraction component, both cemented together with effective management sharp enough to draw on whatever additional specialized help is needed to assure success.

The program I am visualizing needs an assured budget projected for, say, at least one year. This budget should include a small laboratory equipped to process, leach, and assay samples with a qualified full-time technician with access to an AA unit. This operation might involve a capital outlay of, say, \$25,000 and an operating budget of \$2,000/mo.

In addition to the laboratory we will probably need pilot scale test facilities both for heap leaching and milling. These have potential for paying part of the expenses through production, particularly as it becomes feasible to expand the scale.

If realistic numbers are put together for an approach of this type, it is obvious that a substantial amount of capital will be required to sustain the project until it can pay its way.

Your suggestion of developing a system of deferred compensation for personnel seems like one good way of reducing start-up costs. Another way is to substitute an earned equity interest for a portion of payment to personnel. These special arrangements may have to be developed on a case-by-case or at least class basis. In my experience, they should be both as definite and as assured as possible.

Similarly lease payments might preferably be on at least a partly deferred basis, so as to be less burdensome during the lean start-up period. All of which suggests, perhaps, that we should start over again and try to project a more ideal plan adequately financed and staffed.

Regards,

John

JGD:bm

765

Southwestern Exploration Assoc., Inc.
4500 E. SPEEDWAY, SUITE 14
TUCSON, ARIZONA 85712
(602) 795-6097

LETTER
IN REFERENCE TO: P-418
Tombstone

FIRST CLASS MAIL INTER-OFFICE

FOR JAB & P-418 File
Re: USE OF HIGH FREQUENCY electromagnetic
PROBING TO DETECT ANOMALIES

HOW TO USE THIS
DAY/TIMER Time-Saver LETTER TO SAVE TIME.
Type or write your reply in the space below. Then mail
the white copy to us and keep the pink copy for your files.
You'll save time and effort, and we'll have your answer
much faster! Thank you.

MESSAGE

DATE: 9/12/79

FOLD

Jim this is the article of which I spoke about this A.M. about.
It seems quite interesting and I've requested addition of
information from Jeff Lytle L.H. Labs, but as yet have
not heard back from him. I feel its application at
Tombstone maybe just the thing we need for a safe
operation, delineation of tunnels stopes etc, along with
potential use in mapping job areas, veins, dikes
and sudden changes in rock formations. As yet I'm
only reading between the lines but the potential
seems to be there Drilling would be a major
problem as far as expenses go. but we would
still be gaining additional information from the
drilling I'm trying to

FOLD

FOLD

BY Tom

REPLY

follow this up as far as
I can and will inform
you of any additional information when it become available

DATE:

9/13/79

looks very interesting - please continue
to follow up on it. JAB

BY

764

Southwestern Exploration Associates
4500 E. SPEEDWAY, SUITE 14
TUCSON, ARIZONA 85712
(602) 795-6097

FIRST CLASS MAIL INTER-OFFICE

FOR JAB P-418 File

RE: Conversation with Jeff Lytle
Lawrence Livermore Labs Calif.

HOW TO USE THIS

DAY/TIMER

Time-Saver LETTER TO SAVE TIME.

Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

DATE: 9:13:79

FOLD

Jim Jeff called back today on the "High Frequency Electromagnetic Probing to Detect Anomalies." It seems that our Tombstone would be a "good problem" in which to use this technology, but as always limitations may limit its use. Namely cost and unknowns. The method would pick up large open areas (stopes) and tunnels at least 3' or larger but "gob" areas may not show up unless the void space is 50% or greater and this seems unlikely. Geologic mapping is possible, if formation, units or rock types have a great enough electrical differential. Would like to work on project but consulting fees (?) \$400/day + 2 helpers at \$200 each + equip rental cost (?) & expenses. He is currently going

FOLD

FOLD

REPLY

to be working w/ Bureau of Mines on doing work in ^{old} coal areas doing much the ^{DATE} same thing we want to do. He suggested that we look at new issue of Geophysics Oct 1979 in which article will appear on equip & process. He is the only one using this technology currently and has no other information in which to send up but would be happy to answer further questions or do testing of process should we desire

BY

Jim

3-67

REVIEWED

DAY/TIMER

Time-Saver

SEP 21 1979

By *[Signature]*

Southwestern Exploration Associates
4500 E. SPEEDWAY, SUITE 14
TUCSON, ARIZONA 85712
(520) 793-5097

LETTER

IN REFERENCE TO:
P-418 Tombstone

FIRST CLASS MAIL INTER-OFFICE

FOR *G.A.B. & Project File*
Re. Purchase of A.A unit for
Tombstone (Pinkens & Wise Md 290)

HOW TO USE THIS

DAY/TIMER

Time-Saver LETTER TO SAVE TIME.

Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

DATE: *9/11/79*

FOLD

From last Friday I talk to Jack Allen down at Skyline Lane. He indicated the P&W Series 290 unit was well worth picking up for use on the Tombstone project. The unit itself is generally simple to operate, has few problems, and is a very dependable machine for analysis of most base and precious metals, except at very low levels of background, which even more sophisticated machines have trouble running. Price is very reasonable. He indicated we should possibly go to a 300-500 series burner ~~etc~~ for greater versatility but the 200 should be sufficient for Ag Au & base metals. (300-500's have hotter flame) Should also make

FOLD

FOLD

REPLY

DATE:

sure that burner and plate etc. are Teflon coated as this will be necessary if ^{high molar} acids or organic compounds are used, to prevent oxidation of the metal involved. Have good service out of Phoenix but expensive \$30/hr. travel time \$80/hr. repair time + parts. can get service contracts. Skyline will make up standard solution on hourly basis if we so desire. BY *Tom*

761

REVIEWED

3-66

SEP 21 1979

DAY/TIMER
Time-Saver

LETTER

IN REFERENCE TO:

P-418 Tombstone

By *J.B.*

Southwestern Exploration Associates
4500 E. SPEEDWAY, SUITE 14
TUCSON, ARIZONA 85712
(602) 793-6037

FIRST CLASS MAIL INTER-OFFICE

FOR *J.A.B. & Project file*
Re: *Price Increase on NaCN*

HOW TO USE THIS

DAY/TIMER

Time-Saver LETTER TO SAVE TIME.

Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

DATE: *9/11/79*

FOLD

Jim McKesson Chemical Co. is raising prices on Sodium Cyanide by approximately 10% effective Sept. 14. All materials not in transit by that time will fall under the new price increase. The new prices reflect a per pound increase of approximately 5¢ per # across the board. Therefore we are looking at prices @ per cwt of between \$66.00 to \$70.00 depending on quantity ordered. Should we wish to order additional supplies I would suggest we do this prior to Thursday, as we probably will not be desiring more than ~~3~~ barrels during the next months operation

FOLD

FOLD

REPLY

DATE:

When full leaching is in progress we used one barrel per 24 hrs. of spraying; when and if we continue on a reduced schedule to build preg up this should drop to one barrel every 30 hrs of spray operation or roughly calculated 2 barrels per week, depending on dump off etc.

BY *Tom*

760

Southwestern Exploration Associates
4500 E. SPEEDWAY, SUITE 14
TUCSON, ARIZONA 85712
(602) 795-8097

DAY/TIMER

Time-Saver

LETTER

IN REFERENCE TO:

3-65

SEP 21 1979

By

P-418 Tombstone

FIRST CLASS MAIL

INTER-OFFICE

FOR JAB & File Memo.

Re: Dusty Escapulos Back Injury

HOW TO USE THIS

DAY/TIMER

Time-Saver

LETTER TO SAVE TIME.

Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

DATE: 9/11/79

FOLD

I talked to Dusty last night TC# 13744 about his back injury. Seems he has strained muscles in his lower back while loading the zinc feeder down at Tombstone on Sept. 3, 1979. The injury doesn't seem serious, but is very painful and affects everything below the strained area, clear down to his feet. He has been taking it easy - sleeping on the floor (as much as he's ^{able} ~~able~~). Several visits to Doctor have not turned up anything. Is taking pain pill to relieve the pain. Hopes to be back to work Wed Sept. 12th, 1979 with Doc. OK. With the time off Dusty is again back caught up on Time off for extra days worked.

FOLD

FOLD

BY Tom

REPLY

DATE:

BY

LETTER

3-64

IN REFERENCE TO: P-418 Density of
Ore.FIRST CLASS MAIL INTER-OFFICE FOR JAB, TEW

HOW TO USE THIS

DAY/TIMER

Time-Saver LETTER TO SAVE TIME.

Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

DATE: 9/10/79

FOLD

As per request, on 9/6/79, in Tombstone, I determined the density of the white high grade ore on the high grade leach pad. Using a wooden box (45" x 3.3125" x 12") of volume 178.875 in^3 ($.1035 \text{ ft}^3$) and weight 5.25 lbs I weighed said ore. The ore weight for $.1035 \text{ ft}^3$ was determined to be 8.5 lbs. Dividing 8.5 lbs by $.1035 \text{ ft}^3$ gives a ρ of 82.126 lbs/ft^3 . Dividing 2000 lbs/ton by 82.126 lbs/ft^3 gives a figure of $24.35 \text{ ft}^3/\text{ton}$.

Also on 9/7/79 the wet weight of the precipitate removed from the "vanes" only of the precipitate filter was determined to be 16.75 lbs.

BY

JCB

REPLY

DATE:

BY

758

WIDE MARGINAL RULING - MEAD PAPER - REV. VALUES 69

3-63 Revisited Sept. 10
1979
JMS

mead



notebook

11 In. x 8½ In.

40 Sheets

Wide Marginal Ruled

06-3520

A Mead Product

Hulman Bldg., Dayton, Ohio 45402

757

May

Daily Mine, Pulpa 1975

Date	Tons	Hu Polp	Hg Polp	Hu Sol.	Hg Sol	Dump	Pad	Area
May 19, 1975	1280			.014	.429	Cont. #1	1	1
" 20	540			.007	.336	" "	1	1
23	1060			.008	.325	" "	1	1
	<u>2880</u>							

Cont. #1

Note: April, 1975 - 18960 Tons Hauled To Pad #1 Area #1

Cont. #2

May, 1975 - 31240 " " " " " "

Total 50,200

Cont. #1 9740 " June " " " " " " " " " " " "

14920

Date	Tons	AV Pulp	Ag Pulp	AV Sol.	Ag Sol	Dump	Pad	ARE
June 20	1340			.049	1.56	Cont. #2	2	2
23	1180			.035	1.02	" "		
24	2560			.048	.896	" "		
25	560			.020	.355	" 1		
25	1440			.036	1.12	" 2		
26	1240			.043	.550	" 1		
27	1580			.052	.783	" "		
28	1440			.014	.271	" "		
30	2200			.005	1.194	" "		
				.777	6.749			

Cont #1
Cont #3
Trang.

1890 " " " " " " " " " " " "
20940 " " " " " " " " " " " "
54,570 Mine Tonnage - Pulp H₂O - Recoverable Pulp

Date	Tons	Av Pulp	H ₂ O Pulp	H ₂ O Sol.	Av Sol.	Dump	pad	area
July 1, 75	3020	.026	.520	.021	.318	Cont. #1	1	1
2	1820	.015	.333	.007	.244	" "	"	"
3	2200			.016	.337	" "	"	"
3	-34			.018	.369	" "	"	"
5	2500	.036	.570	.016	.258	" "	"	"
7	1260	.020	.481	.015	.277	" "	"	"
8	2000	.024	.636	.026	.331	" "	"	"
9	760	.012	.324	.020	.290	" "	"	"
10	2980	.012	.204	.005	.082	" "	"	"
11	780	.012	.204	.018	.1508	Trangvility	"	"
12	1846	.086	1.16	.052	.771	"	"	"
14	2140	.120	1.81	.025	.625	"	"	"
15	1800	.170	3.22	.022	.330	"	"	"
16	700	.031	.795	.013	.166	"	"	"
17	840	.032	.829	.028	.1563	"	"	"
18	1520	.		.017	.605	"	"	"
19	1486	.021	.498	.015	.246	"	2	2
21	1080	.036	.829	.026	.580	"	"	"
22	1080	.079	.777	.023	.449	"	"	"
23	980	.056	.740	.027	.424	"	"	"
23		.025	1.23	.013	.732	Cont. #3	"	"
23		.050	1.85	.021	.775	" #2	"	"
23		.020	.778	.008	.814	" #1	"	"
24	1520	.052	.761	.023	.466	Trang.	"	"
25	1420	.058	.586	.038	.467	"	"	"
26	1100	.052	.606	.025	.474	"	"	"
28	1240	.055	.638	.020	.492	"	"	"
			1.11	.020	.641	Cont. #3	"	"

July

	Tons	Hu Pulp	Hg Pulp	Hu Sol	Hg Sol	DUMP	Per	HMB
July 29	240			.019	.553	Cont. 3 rd	2	2
29	1100	.065	1.54	.021	.550	Trang.	2	2
30	790	1.128	2.42	.017	1.595	Cont 3	2	2
31	700	.054	2.18	.028	3.40	Trang.	2	2

Aug.

32510

Date	Tons	Hu Pulp	Hg Pulp	Hu Sol	Hg Sol	Dump	Pad	Area
Aug. 1, 1925	900	.054	1.13	.030	.783	Transf.	2	2
2	1300	.040	.95	.016	.638	"	"	"
4	2040	.062	1.03	.022	.554	"		
5	1320			.019	.438	"		
6	500	-	-	-	-	"		
7	1420	.150	2.54	.019	.394	"		
8	1460			.023	.258	"		
9	1800	.020	.75	.007	.08	Cont. #1		
11	780	.018	.56	.010	.24	"		
22	440	-	-	-	-	"		
27	924	-	-	.112	2.67	" #3		
28	924	-	-	.014	1.417	Transf.		
29	784	-	-	.013	1.421	"		
30	2876	-	-	.011	1.205	Cont. #1		
	39140							

Date	Tons	Hu Polp	Hg Polp	Hu Sol	Hg Sol	Dump	Pad	Area
Sept. 2, 1975	2310	-	-	.013	.319	Cont #1	2	2
" 2	948	-	-	.024	.369	Trang.	"	"
3	2772	-	-	.008	.211	Cont #1	11	4
3	720	-	-	.009	.193	Trang.	11	11
4	2616	-	-	.016	.206	"	11	11
5	1768	.014	.335	.012	.315	"	11	11
8	3976	.031	.644	.014	.254	Cont #1	11	11
9	2710	-	-	.007	.196	"	11	11
10	828	-	-	.012	.246	Trang.	1	3
11	3330	-	-	.011	.436	"	11	11
12	3454	.038	2.29	.013	.250	Cont #1	11	11
13	3938	.076	.901	.018	.343	Trang.	11	11
15	4100	.048	1.19	.015	.281	Cont #1	11	11
16	492	.050	2.25	.024	.408	Boss	"	"
16	3743	.038	.766	.017	.264	Cont #1	11	11
17	1780	.019	.530	.017	.293	" "	11	11
18	948	.041	1.04	.018	.336	" "	11	11
19	1584	.025	.50	.017	.302	Trang.	11	11
20	2476	.035	1.52	.014	.190	Cont #1	11	11
22	2336			.019	.327	" "	11	11
23	2176			.013	.24	" "	11	11
24	2510			.009	.234	" "	11	11
25	408			.015	.405	" "	1	5
29	2028					Trang	11	11
30	2944					" "	11	11

54

751

MINE RECORD, START OCT. 1, 1975

DATE	PRD	AREA	TONS	DUMP	AU PULP	AG PULP	AU SOL.	AG SOL.	
Oct 1	#1	#5	1186	BOSS	.05	.577	.235	6.71	
Oct. 2	#1	#5	1150	BOSS	.0325	.695	.118	1.15	
Oct. 3	#1	#5	700	BOSS	.0395	.3875	.092	.68	
Oct. 4	#1	#5	2600	BOSS	.0325	.40	.078	1.07	
Oct. 5	SUNDAY								
			1430	BOSS	.039	.530	.136	1.60	
			1000 2920	TRANS.	.030	.587	.007	1.80	
Oct. 7	#1	#5	2590	BOSS	.036	.920	.135	1.85	
			1620 CONT. 1	CONT. 1	.022	.227	.052	1.20	
Oct 8	#1	#5	1522 TRANS. 3260	TRANS.	.014	.417	.050	.58	
			1000	CONT. 1			.046	1.23	
Oct. 9	#1	#5	1040 2040	G. TAILINGS			.045	1.15	
			1780 2850	CONT. 1			.046	1.20	
Oct. 10	#1	#5	1070	BOSS			.109	2.18	
Oct. 11	#1	#5	2180 2700	CONT. 1			.046	1.20	
			520	G. TAILINGS					
Oct. 12	SUNDAY								
Oct. 13	#1	#5	320 = 2100	G. TAILINGS					
			1780	BOSS			.102	2.10	
Oct. 14	"	"	1280 = 2130	BOSS					
			850	CONT. 1	.020	.500	.055	1.45	
Oct. 15	"	"	770 = 2590	TRANS.			.066	1.56	
			1820	CONT. 2					
Oct 16			3010	CONT. 1	.030	.460			
Oct. 17	"	"	2790	CONT. 1	.011	.510			
Oct 18	NO HULL								
Oct. 20	NO HULL								
Oct 20	#1	#5	3340	CONT. 1					
Oct 21	SWITCHED TO 1-5								
			41456 TONS	TOTAL ON PAD					
	#1	#6	2080	CONT. 3					
	#1	#6	850	G. TAILINGS					
	#1	#6	2320	CONT. 1					
Oct. 22	#1	#6	710	G. TAILINGS					
	#1	#6	2100	CONT. #1					
Oct. 23	#1	#6	702	G. TAILINGS					
	#1	#6	1580	TRANS.					
Oct. 24	#1	#6	2800	CONT. 1					
	#1	#6	1320	TRANS.					
Oct. 25	#1	#6	3220	CONT. #1					
Oct. 26	SUNDAY								

DATE	PAD	AREA	TRUCK	TONS	AU P&P	AG P&P	AU SOL	AG SOL
Oct 27	1	6	CONT 1	3520				
			CONT. 2	2440				
Oct. 28	1	6	TRANQ	1500				
			CONT. 2	2880				
Oct. 29	"	"	TRANQ	1700				
			CONT. 2	3340				
Oct. 30	"	"	TRANQ	1140				
			CONT. 1	2440				
Oct. 31	"	"	TRANQ	1430				

MINE RECORD TONS Hauled NOVEMBER 1945

DATE	PAD	AREA	TRUCK	TONS
NOV 1			SATURDAY HAUL	
NOV. 2			SATURDAY HAUL	
NOV. 3	#1	6 [#]	TRANQ	1480
			CONT. #1	3180
			WEST SIDE	2520
NOV. 4	"	"	CONT. #1	1640
			CONT. #1	1150
NOV 5	"	"	TRANQ	520
			WEST SIDE	2380
			WEST SIDE	2580
			CONT #1	320
NOV. 6	"	"	WEST SIDE	1680
NOV. 7	"	"	CONT 2	3550

Daily Plant Production

3-62 SEA copy
Rev. Sept 10, 1979
HR

Mead



notebook

11 In. x 8½ In.

40 Sheets

Wide Marginal Ruled

06-3520

A Mead Product

Hulman Bldg., Dayton, Ohio 45402

748

Lot 101-102 Pad #1 Area #1

Daily Plant Production

Date	Ton	Capacity	Quantity	Av. Precip.	R. Precip.	Av. Precip.	R. Precip.	Total Ton
June 2, 1955	948.1	.048	1.376	0	.004	45.91	1273.36	
3	812.5	.045	1.376	.01	.045	27.62	951.07	Total Ton
4	684.7	.045	1.30	.001	0	30.72	893.66	Lot 101-102
5	616.8	.042	1.120	.0003	0	25.93	694.76	4986.9
6	555.4	.039	1.02	.003	.039	19.98	540.90	Av 202.58
7	534.0	.040	.987	0	0	21.72	527.30	75501.75
8	529.7	.037	.951	0	0	21.82	500.80	
9	635.7	.036	.873	0	.010	23.11	548.45	
Total Lot 101-102	5376.9					216.81	5990.30	
Lot 103								Total Tons
10	656.7	.030	.825	0	.030	19.03	524.74	
11	1001.8	.033	1.00	0	0	32.34	312.13	Lot 103
12	1190.3	.027	.679	0	0	31.73	755.6	5540.5
13	928.8	.025	.714	0	.017	22.83	648.6	Av 157.41
14	776.6	.024	.669	0	.007	18.16	508.6	75.729
15	663.7	.022	.642	0	.003	14.31	419.4	
	5217.9					138.40	3168.4	
Lot 104								Total Tons
16	790.9	.022	.521	.002	.005	16.06	420.9	
17	606.9	.021	.519	0	.006	12.46	308.2	
18	651.3	.020	.493	0	.003	12.56	317.6	Total Tons
19	635.9	.019	.487	0	0	11.61	303.37	Lot 104
20	641.1	.017	.467	0	0	10.65	295.8	5721.0
21	552.1	.017	.423	0	0	8.85	230.7	Av 125.05
22	640.7	.016	.421	0	0	9.54	262.8	75266.8
23	750.5	.016	.381	0	0	11.24	279.1	
24	542.2	.016	.290	0	.005	8.11	204.9	

Date	Ton Precip.	AU Reg	A _g Precip.	AU Batten	A _g Batten	Au precip.	Au precip.	Total Tons
Lot 105 June 24	682.4	.013	.378	.001	.036	8.23	252.9	Total Tons
27	971.1	.01	.310	0	0	8.77	294.6	3842
28	747.0	.01	.266	0	0	6.73	192.5	AU 35.8 A _g 1158.16
29	777.6	.007	.274	0	0	4.89	205.1	Lot 105
30	812.5	.009	.224	0	.01	6.86	174.3	
Lot 106 July 1	3990.5					35.48	1294.0	
	689.0	.007	.245	0	.01	4.78	159.5	Total Tons
2	814.0	.008	.193	0	0	5.91	148.6	6794.5
3	843.0	.007	.212	0	0	5.06	170.0	AU 47.7 A _g 1401.2
4	832.0	.007	.229	0	0	5.56	182.8	Lot #106
5	746.0	.008	.231	0	0	5.74	165.9	
6	816.0	.008	.226	0	0	6.27	177.0	
7	628.0	.007	.182	0	0	3.81	108.3	
8	587.0	.007	.202	0	.007	3.56	113.0	
9	530.0	.008	.217	0	0	3.71	111.4	
Lot 107-108	6485.0					44.40	1336.5	
10	825	.007	.206	0	0	4.23	162.2	Lot 107-108
11	601	.008	.208	0	0	4.34	118.5	AU 187.4 A _g 4692
12	120	.007	.185	0	.003	.63	21.0	Total Tons
13	371	.008	.195	.002	0	2.43	68.6	?
14	500	.007	.200	0	.003	3.40	92.7	
15	835	.006	.168	0	0	4.47	133.0	
16	560	.004	.104	0	.008	3.05	81.2	
17	217	.009	.100	0	.013	1.74	19.5	
18	477	.029	.922	.001	0	13.38	436.6	
19	1068	.036	.899	0	.003	37.4	947.0	
20	1290	.037	.857	.002	.050	44.5	1632	

Date	Ton Precip	Ho Precip	R & Precip	Ho Barren	R & Barren	Ho Precip	R & Precip
July 21	1233	.032	.907	0	.012	37.0	818.0
22	1032	.027	.617	.001	.018	25.4	606.0
23	919	.025	.598	.001	.016	21.9	525.0
	9129					203.87	5061.3
Lot 109 July 24, 75	1077	.026	.544	0	0	27.3	588.0
25	1093	.027	.643	0	0	29.7	689.0
26	994	.024	.585	0	0	22.4	562.0
27	895	.020	.480	0	0	16.9	415.0
28	1154	.021	.450	0	0	23.0	508.0
29	790	.018	.403	0	0	13.9	312.0
30	979	.015	.337	0	0	14.2	314.0
31	1108	.015	.348	0	0	15.9	374.0
Aug. 1	1045	.017	.318	0	0	16.3	321.0
2	1093	.014	.339	0	0	14.8	305.0
3	1146	.022	.691	0	0	24.8	778.0
4	1240	.026	.628	0	0	29.6	758.0
5	1135	.022	.519	0	0	23.7	574.0
6	1199	.020	.412	0	0	23.3	483.0
7	1223	.020	.438	0	0	23.6	525.0
8	1101	.022	.527	0	0	23.6	571.0
9	1220	.025	.518	0	0	29.6	613.0
10	1048	.023	.478	0	0	23.5	491.0
11	1259	.018	.343	0	0	22.4	413.0
12	262	.012 <small>1 shift</small>	.277 <small>1 shift</small>	0	0	2.9	70.0
	21061					420.7	4664.0
Lot 110 13	1120	.013	.281	0	.008	13.9	293.0
14	1113	.012	.244	0	0	13.0	262.0
15	1133	.011	.257	0	0	11.7	257.0

Lot 109
Av 440.
R 10.134.

745

Date	Ton Precip	Hv Preg	Hg Preg	Hv Barren	Hg Barren	Hv Precip	Hg Precip
Lot 110 17 Aug 16	1167	.008	.216	0	0	8.5	240
17	1236	.008	.166	0	0	8.5	193
18	1127	.007	.155	0	0	6.7	162
19	1057	.006	.149	0	0	5.3	148
20	1228	.004	.115	0	0	4.1	130
21	1117	.006	.109	0	0	5.4	110
22	949	.005	.093	0	0	3.9	79
23	746	.007	.100	0	0	4.6	66
24	630	.004	.104	0	0	2.3	60
25	494	.004	.101	0	0	1.6	54

Lot 110
Hv 89.1
Hg 2020

13117
89.1
2020

26-28
Lot 111

Shut Down

29	1222	.003 <small>1 shift</small>	.142	0	0	3.6	162
30	482	.009	.120	0	0	2.9	53

Sept. 1-13

Shut Down

14	1017	.02	.464	0	.006	19.1	455
15	1183	.016	.515	0	0	18.2	597
16	1112	.023	.485	0	0	24.6	533
17	1303	.019	.395	0	.004	23.3	499
18	1251	.018	.368	0	0	22.2	449
19	1190	.016	.291	0	.003	13.4	335
20	1188	.013	.262	0	0	15.0	300
21	1207	.014	.251	0	0	14.1	291
22	1099	.012	.275	0	0	12.5	294
23	70	.012	.263	0	0	.77	18

2865
2047
4912
2730
2688
3690
2398
6088
3495
2245
5740
3330
2020
5350

17324

Shut Down

Lot 112

24	817	.013	.292	.001	.018	9.4	223
25	1000	.010	.242	0	0	17.0	200

STAR
744

19, 20, 21

25,000# Per Month Sample

Date	Ton Precip	Au Precip	Ag Precip	Au Barren	H ₂ Barren	Au Precip	Ag Precip	Lot 112
Sept. 27	1368	.007	.136	0	0	8.6	170	
28	566	.005	.084	0	0	2.3	43	
29	658	.006	.134	0	0	3.8	83	
30	765	.012	.210	0	.010	6.9	150	
	5463							
1	570	.011	.204	0	.013	5.6	118.4	
2	149	.011	.203	0	0	1.5	29.0	Lot 113
3	341	.010	.190	0	0	3.0	63.0	START ZN 75#
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	
8	1097	.016	.273	0	0	16.25	294.67	10-5 ZN 100#
9	1308	.023	.323	0	0	23.5	410	Au-49.25 Ag-776.64
10	1365	.022	.342	0	0	23.73	463.5	10-10 ZN 100#
11	1276	.021	.335	0	0	25.96	411.8	
12	1225	.020	.346	0	0	22.67	411.5	Au-126.4 Ag-2073.44
13	1317	.017	.325	0	0	21.54	414.86	10-12 ZN 100#
14	1302	.015	.304	0	0	18.25	386	10-13 ZN 100#
15	1281	.012	.272	0	0	14.1	336.18	Au 180.45 Ag 3210.48
16	1319	.011	.239	0	0	13.6	320.86	10-14 ZN 100#
17	1306	.009	.214	0	0	10.89	267.42	10-17 ZN 100#
18	1293	.009	.192	0	0	10.8	236.45	10-18 ZN 100#
19	1126	.006	.142	0	0	5.92	170.32	22.1.34 Au
	221.36	oz Au	4205	59 oz Ag	775#	Zinc	Lot 113	START LOT 114 100# Zinc
20	918	.007	.163	0	0	5.447	141.277	
21	349	NO sample						100# 743

Ash 113-B 88.5 - 21.5 BBL
 Billion 111 WT 48.32 Lot 112 WT 10.7
 Lot 110 WT 30.16

Date	Tons Precip.	Au Precip.	Ag Precip.	Au Bar.	Ag Bar.	Au Precip.	Ag Precip.	Lot 114
22	1055	.004	.123	0	0	4.848	118.89	
23	120	.012	.279	0	0	1.4	34.3	
24	0	0	0	0	0	0	0	10-25-75 100# ZN
25	846	.019	.523	0	0	15.4	435	10-26-75 100# ZN
26	1277	.017	.545	0	0	20.7	682.9	
27	1327	.021	.593	0	0	26.9	773	
28	1352	.023	.608	0	0	104.885 30.19	2992.257 801.02	10-28-75 100# ZN
29	1343	.022	.523	0	0	28.06	689.2	10-29-75 100# ZN
30	1310	.021	.473	0	0	25.775	606.98	10-30-75 100# ZN
31	1241	.020	.455	0	0	23.41	551.52	
Nov. 1	1260	.021	.420	0	0	75.6	516.87	11-1-75 100# ZN
2	713	.021	.400	0	0	Totals Lot 114 222.03 14.3	6444.93 279.06	772# Zn Lot 114
START LOT 115								START LOT 115
3	1436	.016	.338	0	0	22.23	474.8	30# Zinc 100# ZN
4	1319	.012	.250	0	0	13.95	316.56	100# ZN
5	921	.013	.297	0	0	10.9	265.7	100# ZN
6	890	.019	.375	0	0	16.0	324.7	
7	781	.016	.375	0	0	11.33	283.82	
8	678	.016	.360	0	0	10.37	238.45	100# ZN
9	681	.016	.338	0	0	10.19	221.9	100# ZN
10	803	.012	.275	0	0	8.93	209.94	
11	1078	.011	.221	0	0	114.809 10.889	2565.36 229.49	100# ZN
12	1052	.015	.288	0	0	15.48	292.48	100# ZN
13	899	.014	.293	0	0	142.217 11.97	311.76 253.92	
14	828	.015	.303	0	0	11.9	241.0	100# ZN
15	1145	.014	.274	0	0	14.27	300.36	
16	899	.012	.222	0	0	10.8	209.55	
START LOT 116								START LOT 116
17								100# ZN

742

Southwestern Exploration Associates
4500 E. SPEEDWAY, SUITE 14
TUCSON, ARIZONA 85712
(602) 795-6097

DAY/TIMER

Time-Saver

LETTER

IN REFERENCE TO:

3-61

P-418 Tombstone

FIRST CLASS MAIL

INTER-OFFICE

FOR Jim Briscoe *cc to TEW*
& Tom Schloss, FAMCO

JAB copy

HOW TO USE THIS

DAY/TIMER

Time-Saver

LETTER TO SAVE TIME.

Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

Jim,

DATE:

September 10, 1979

FOLD

Jim, from McKesson Chemical called while you were in the priority meeting and asked that I leave you the following message, regarding prices on sodium cyanide:

Truck load price - 40 - 42 thousand lbs. at old price (today and tomorrow only) will be \$49.50 cwt or \$19,800 approx; new price will increase 10.4% and be around \$21,859.00.

Sharing a truck load with McKesson Chemical - about 24 thousand lbs. at old price will be \$51.00 cwt or \$12,240.00; new price will increase 10.4% and be around \$13,512.96.

50 or more drum price - old price 53.65 per cwt - increase will be between 10 and 11 percent.

25 - 49 drum price - old price 54.65 cwt - increase will be between 10 and 11 percent.

FOLD

FOLD

BY

Sue Rice

REPLY

DATE:

BY

741

3-60

17996

RECEIVED SEP - 7 1979

UNITED STATES OF AMERICA
TOLSON, ARIZONA

Customer's Order No. _____ Date SEPTEMBER 4 1979

Name SOUTHWESTERN EXPLORATION ASSOCIATES

Address 4500 E. SPEEDWAY, SUITE 14
TUCSON, ARIZONA 85712

SOLD BY	CASH	C. O. D.	CHARGE	ON ACCT.	MDSE. RETD.	PAID OUT	
QUAN.	DESCRIPTION					PRICE	AMOUNT
32	8/25 ATOMIC ABSORB. ASSAYS					1.75	56 00
27	8/28 SHAKER TESTS					6.00	162 00
10	8/29 ATOMIC ABSORB. ASSAYS					1.75	17 50
16	8/30 SHAKER TESTS					6.00	96 00
27	8/30 ATOMIC ABSORB. ASSAY					1.75	47 25
2	8/31 " " "					1.75	3 50
6	8/31 " " "					1.75	10 50
	LESS						392 75
	LESS CREDIT						- 59 00
	BALANCE DUE						333 75
<i>Charles B. Scarpale</i>							

ALL claims and returned goods MUST be accompanied by this bill.

Rec'd By _____

All Purpose Sales Form 258

REVIEWED

SEP 8 1979

By *[Signature]*

740

17997

RECEIVED SEP - 7 1979

Customer's Order No. _____ Date SEPTEMBER 4 1979
 Name SOUTHWESTERN EXPLORATION ASSOC.
 Address 1500 E. SPEEDWAY, SUITE 14
TUCSON, ARIZONA 85712

SOLD BY		CASH	C. O. D.	CHARGE	ON ACCT.	MDSE. RETD.	PAID OUT
QUAN.	DESCRIPTION				PRICE	AMOUNT	
7 HRS	EXCAVATOR 3964 @				20.00	140 00	
<i>Charles B. Esapud</i>							

ALL claims and returned goods MUST be accompanied by this bill.

Rec'd By _____

All Purpose Sales Form 258

REVIEWED

SEP 8 1979

By *[Signature]*

739

①

SOUTHWESTERN EXPLORATION ASSOC.

				Ag	Au
8/19	S	4011	30 min.	-16	.008
"	"	4012	"	1.22	.010
"	"	4013	"	.62	TR
"	"	4014	"	1.68	.049
"	"	4015	"	.77	.025
"	"	4016	"	.21	.011
"	"	4017	"	.08	.008
"	"	4018	"	.11	TR
"	"	4019	"	.07	TR
"	"	4020	"	.39	.008
"	"	4021	"	3.52	.029
"	"	4022	"	.98	.017
"	"	4023	"	2.52	.040
"	"	4024	"	.85	.026
"	"	4025	"	.55	.008
"	"	4026	"	1.54	.010
"	"	4027	"	.98	.011
"	"	4028	"	1.04	.017
"	"	4029	"	2.24	.031
"	"	4030	"	.39	.014
"	"	4031	"	.72	.017
"	"	4032	"	.24	TR
"	"	4033	"	.28	TR

(2)

			Ag	Au
8/19	S	4034	30 min. .20	TR
"	"	4035	" .21	.017
"	"	4036	" .56	.008
"	"	4037	" .36	.014
"	"	4040	" .54	.052
"	"	4041	" .08	TR
"	"	4042	" .16	NIL
"	"	4044	" .17	.008
"	"	4045	" .08	TR
8/20	"	4046	" .16	TR
"	"	4047	" TR	TR
"	"	4048	" .03	NIL
"	"	4049	" .11	NIL
"	"	4050	" .19	TR
"	"	4051	" .30	.008
"	"	4052	" .19	TR
"	"	4053	" .84	.017
"	"	4054	" .22	TR
"	"	4055	" .30	TR
"	"	4056	" .10	TR
"	"	4057	" .24	.005
"	"	4058	" .36	.005
"	"	4059	" 1.16	.011

③

8/20	S	4060	30 MIN	.53	TR
"	"	4061	"	.80	.017
"	"	4062	"	.83	.014
"	"	4063	"	.52	.014
"	"	4064	"	.14	.008
"	"	4065	"	.02	TR
"	"	4066	"	.07	.031
"	"	4067	"	.07	.005
"	"	4068	"	.03	N14
"	"	4069	"	1.24	.017

BILLED 8/20 #17984

8/21	B	B-1	6HR	2.24	.049
"	"	B-2	"	1.62	.046
"	"	B-3	"	1.28	.040
"	"	B-4	"	1.66	.040
"	"	B-5	"	.39	.014
"	"	B-6	"	2.20	.040
"	"	B-7	"	2.80	.043
"	"	B-1	12 HR	2.80	.66
"	"	B-2	"	2.01	.060
"	"	B-3	"	1.72	.043

④

			Ag	Au
8/21	B	B-4	12HR 2.16	.052
"	"	B-5	" .44	.020
"	"	B-6	" 2.56	.043
"	"	B-7	" 3.40	.060
8/21	B	B-1	24HR 3.0	.066
"	"	B-2	" 2.2	.066
"	"	B-3	" 1.92	.043
"	"	B-4	" 2.32	.058
"	"	B-5	" .46	.07
"	"	B-6	" 2.68	.046
"	"	B-7	" 3.68	.060
8/22	B	B-8	6HR .14	.001
"	"	B-9	" .15	.001
"	"	B-10	" .97	.029
"	"	B-11	" 3.76	.069
"	"	B-12	" 3.0	.075
"	"	B-13	" 3.12	.063
"	"	B-14	" .167	.001
"	"	B-15	" .53	.008
"	"	B-16	" .90	.023
8/22	B	B-1	48HR 4.0	.098
"	"	B-2	" 3.0	.089
"	"	B-3	" 2.61	.072

(5)

			Ag	A4
8/22	B	B-4	48HR 3.24	.081
"	"	B-5	" .63	.026
"	"	B-6	" 3.40	.066
"	"	B-7	" 4.56	.089
8/23	B	B-8	24HR .18	.026
"	"	B-9	" .17	.026
"	"	B-10	" 1.22	.043
"	"	B-11	" 5.04	.118
"	"	B-12	" 3.52	.118
"	"	B-13	" .25	.116
"	"	B-14	" .91	.020
"	"	B-15	" .98	.020
"	"	B-16	" 1.18	.034
8/24	B	B-8	36HR .26	.037
"	"	B-9	" .25	.034
"	"	B-10	" 1.74	.049
"	"	B-11	" 7.84	.194
"	"	B-12	" 3.84	.153
"	"	B-13	" 4.80	.174
"	"	B-14	" 2.40	.026
"	"	B-15	" 1.40	.029
"	"	B-16	" 1.60	.046
8/24	B	B-17	24HR 1.24	.037

⑥

			Ag	Au
8/24	B	B-18	24HR 3.04	.075
"	"	B-19	" .44	.020
8/26	B	B-17	48HR 1.62	.052
"	"	B-18	" 1.30	.031
"	"	B-19	" 4.16	.098
BILLED 8/27/79 # 17989				
8/28	B	4101	24HR .67	.014
"	"	4102	" 1.86	.029
"	"	4103	" 3.52	.069
"	"	4104	" .36	.041
"	"	4105	" .27	.011
"	"	4106	" .26	TR
"	"	4107	" .14	.005
"	"	4108	" .11	TR
"	"	4109	" 1.12	.063
"	"	4110	" 10.72	.179
"	"	4111	" .96	.038
"	"	4112	" .31	.008
"	"	4113	" 2.56	.046
"	"	4114	" 9.44	.168
"	"	4117	" 26.24	.113
"	"	4118	" .45	.005

733

⑦

			A9	A4
8/28	B	4101	48 HR 1.14	.020
"	"	4102	" 1.08	.029
"	"	4103	" 4.32	.058
"	"	4104	" .54	.017
"	"	4105	" .42	.014
"	"	4106	" .37	TR
"	"	4107	" .24	.008
"	"	4108	" .18	.005
"	"	4109	" 1.54	.084
"	"	4110	" 24.32	.208
"	"	4111	" 1.46	.046
"	"	4112	" .51	.011
"	"	4113	" 3.92	.081
"	"	4116	" 25.28	.237
"	"	4117	" 81.92	.159
"	"	4118	" .68	.011
8/28	S	4075	30 MIN 1.94	.023
"	"	4076	" .69	.020
"	"	4077	" .79	.017
"	"	4078	" .77	.014
"	"	4079	" 1.46	.008
"	"	4080	" .24	.003
"	"	4081	" .57	TR

5

				A5	A4
8/28	S	4082	30 MIN	.14	NIL
"	"	4083	"	.05	TR
"	"	4084	"	.07	TR
"	"	4085	"	.21	.008
"	"	4086	"	.05	NIL
"	"	4087	"	.07	NIL
"	"	4088	"	.18	TR
"	"	4089	"	.03	NIL
"	"	4090	"	TR	TR
"	"	4091	"	.03	TR
"	"	4092	"	.04	TR
"	"	4093	"	.05	TR
"	"	4094	"	.10	TR
"	"	4095	"	.03	TR
"	"	4096	"	TR	TR
"	"	4097	"	.21	TR
"	"	4098	"	.45	TR
"	"	4099	"	.31	TR
"	"	4100	"	.18	.04
"	"	4101	"	2.84	.031
8/29	B	B-4114	24 HR	2.0	.062
"	"	R-4115	"	.60	.017
"	"	B-4119	"	1.86	.046

⑨

			A5	A6
8/29	B	B-4120	24 HR .32	.028
"	"	B-20	" 1.62	.049
"	"	B-21	" 1.76	.046
"	"	B-22	" 1.78	.049
"	"	B-23	" 1.72	.046
"	"	B-24	" 1.88	.055
"	"	B-25	" .53	.023
8/30	B	B-20	48 HR 1.84	.060
"	"	B-21	" 1.72	.060
"	"	B-22	" 1.76	.060
"	"	B-23	" 1.98	.058
"	"	B-24	" 2.12	.063
"	"	B-25	" .79	.031
"	"	B-4114	" 2.48	.084
"	"	B-4115	" .72	.023
"	"	B-4119	" 2.48	.058
"	"	B-4120	" .43	.029
8/30	B	B-4101	72 HR .89	.019
"	"	B-4102	" 1.52	.026
"	"	B-4103	" 3.64	.060
"	"	B-4104	" .014	.45
"	"	B-4105	" .28	.011
"	"	B-4106	" .28	TR

(10)

			A ₃	A ₄
8/30	B	B-4107	72HR .19	.008
"	"	B-4108	" .16	TR
"	"	B-4109	" 1.12	.066
"	"	B-4110	" 9.49	.159
"	"	B-4111	" .85	.026
"	"	B-4112	" .41	.011
"	"	B-4113	" 1.64	.055
"	"	B-4114	" 8.52	.156
"	"	B-4115	" 115.20	.246
"	"	B-4116	" .47	.028
8/30	—	EFFLUENT	— 1.16	.013
8/30	S	4102	30MIN 1.52	.034
"	"	4103	" 3.52	.055
"	"	4104	" .56	TR
"	"	4105	" .37	TR
"	"	4106	" .50	TR
"	"	4107	" .17	TR
"	"	4108	" 1.10	.040
"	"	4109	" 5.36	.052
"	"	4110	" .82	.020
"	"	4111	" .67	TR
"	"	4112	" 2.36	NIL
"	"	4113	" 5.68	NIL
"	"	4114		

				As	Ac
8/30	S	4117	30 MIN	14.29	NIL
"	"	4118	"	.31	NIL
"	"	4119	"	1.02	NIL
"	"	4120	"	.026	NIL
8/31	-	PREG	-	.62	.016
"	-	EFFLUENT	-	1.26	.026
8/31	B	4102	96 HR	1.44	.024
"	"	4103	"	3.48	.058
"	"	4110	"	7.44	.145
"	"	4117	"	29.76	.371
8/31	-	EFFLUENT	-	1.50	.031
"	-	PREG	-	1.04	.023

BILLED 9-4-79 # 17996

9/4	-	PREG 8:00 AM	-	1.0	.020
"	-	EFFLUENT 8:00 AM	-	1.04	.023
"	-	BARREN	-	.09	TR
"	-	PREG 12:00 NOON	-	1.0	.023
"	-	BARREN	-	.06	TR
"	-	EFFLUENT 3:00 PM	-	1.12	.026
9/5	-	EFFLUENT 7:00 AM	-	1.12	.034
"	-	PREG 7:00 AM	-	1.28	.023

DAY/TIMER

Time-Saver

LETTER

3-59

Southwestern Exploration Associates
4500 E. SPEEDWAY, SUITE 14
TUCSON, ARIZONA 85712

(602) 795-6097

IN REFERENCE TO:

P 418 Tombstone
Cochise Co., Ariz

FIRST CLASS MAIL

INTER-OFFICE

FOR T. Schloss, D. Lee FAMCO.
NY, NY
cc. John Dean

HOW TO USE THIS

DAY/TIMER

Time-Saver

LETTER TO SAVE TIME.

Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

REPLY

FOLD

DATE

9/8/79

DATE

FOLD

- With this note is transmitted:
1. Intermediate crosscut back here french looking south. Available assays are plotted.
 2. 71 minerals Daily Plant Production.
 3. 71 " " Tonnages, Pulp Assay tables - Rec. values. Both of these records are a gift of Charlie Escapade.
 4. Definition of ore Reserve Terms

SIGNED

A. J. B. in

SIGNED

727

Southwestern Exploration Assoc., Inc.
4500 E. SPEEDWAY, SUITE 14
TUCSON, ARIZONA 85712
(602) 795-6097

LETTER

IN REFERENCE TO:

FIRST CLASS MAIL INTER-OFFICE

FOR
TO: TE WAIDRIP
FROM: M.C. BAUMANN
DATE: 9/7/79
SUBJECT: INFORMATION CONCERNING MINES &
MINE WORKINGS AT TOMBSTONE

HOW TO USE THIS

DAY/TIMER

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Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

DATE:

9/7/79

FOLD

ARIZONA BUREAU OF MINES (845 N. PARK) 626-2733

APPROX 50 MAPS - AVERAGE SIZE 1.5 BY 2.5 FT = 3.75 SQ. FT.

VELLUMS WOULD COST $3.75 \times 50 = 187.50$ SQ. FT. \times ^{EST.} $.80/\text{SQ. FT.} = \$150.00$

THIS INCLUDES MINE PLAN MAPS AND CROSS SECTIONS BY

F.L. RANSOME, 1910. SOME NOTATIONS PRESENT ON ORIGINALS

NOT ON PUBLISHED MAPS.

UNIV. OF ARIZ. - SPECIAL COLLECTIONS 1. TOMBSTONE & ITS MINES - BLAKE [M9791 - B63E]

2. STAUNTON, WILLIAM FIELD (1879-1910) REPORTS AND PAPERS - ALSO A

MAP PORTFOLIO - 20 MAPS - APPROX SIZE 1.5 X 2.5 FT = 3.75 SQ. FT. = 75 SQ. FT.

 $75 \text{ SQ. FT.} \times .80/\text{SQ. FT.} = \$60.$ [AZ-152]

3. BERT DEVERE - ASARCO - HAS A COLLECTION OF OLD PHOTOGRAPHS OF

TOMBSTONE AREA

FOLD

FOLD

BY

REPLY

JCB

DATE: 9/11/79

JIM SAID THAT ABG&T HAS A FEW MAPS BY
E.D. WILKSON LIKE A WHOLE FILE DRAWER - I DON'T
KNOW IF MCTB SAW THESE BUT THEY ARE DOWN IN THE
DRAFTING AREA AND NEAR THE CORNER - VERY UNORGANIZED
but useful.

Tom

BY

726

Southwestern Exploration Associates
 4330 E. SPEEDWAY, SUITE 14
 TUCSON, ARIZONA 85712
 (602) 795-6097

LETTER

IN REFERENCE TO: Tombstone
 Reports P-418

NDD

FIRST CLASS MAIL INTER-OFFICE

FOR

Tom Schloss

FAMCO

cc. John Dean

HOW TO USE THIS

DAY/TIMER

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Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

DATE:

9/6/79

FOLD

Transmitted herewith are:

1. Description of the state of Marine Mine Assay techniques
2. Barrel list procedures currently in use
3. Daily reports
4. 1" = 20' photomosaic of the Contention open cut area
5. Sepia tone overlay for the above photomosaic with assay values annotated
6. Grid overlay for 1" = 100' photo to match the one in Tucson
7. Trench x cut sketch maps showing sample locations and available assays.

FOLD

FOLD

REPLY

DATE:

value/ton

Average[^] of all ore mined at Tombstone in today's prices (An = 300/lb, Ag 10.00/lb, Cu \$1.10/lb, Pb 55¢/lb, Zn \$0.35/lb) is \$165.70/ton.

BY

725

DAY/TIMER

Time-Saver

Southwestern Exploration Associates
4500 E. SPEEDWAY, SUITE 14
TUCSON, ARIZONA 85712

(602) 795-6097

LETTER

3-5b

IN REFERENCE TO:

FIRST CLASS MAIL

INTER-OFFICE

FOR

J. H. B.

re P418 slides

HOW TO USE THIS

DAY/TIMER

Time-Saver

LETTER TO SAVE TIME.

Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

REPLY

FOLD

DATE

Sept 6, 1979

DATE

9/7/79

FOLD

Jim -
Your slides (roll # 74) for P418 are in a tray behind my desk.

They are ready for your review.

SIGNED

Marcia J. Church

SIGNED

AS POSSIBLE
Thanked JHB

Save

REORDER FORM No. 82419L, DAY-TIMERS, Allentown, Pa. 18001

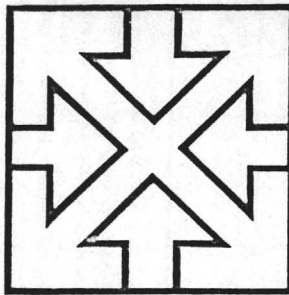
724

MATERIALS she sent to Messrs Tom Schloss & John
Dean on Sept 6, 1979.

- + Daily Reports by TEW Aug 16th through
Aug 31st 1979 and A.W Sept. 1 through 3rd 1979
- + Calculated ore values - J.A.B memo.
- + Barrel Test Procedures - TEW memo.
- + Color Aerial Photo prints of Contention Open
Cut 1" = 20" scale.
- + Sepia Overlay of channel assay values along walls of
Contention Open cut for photo at scale
1" = 20' scale. for Ag & Au values calculate
As present, present day values ≈ 9 Ag ≈ 300 Au.
- + 3 plan maps of Contention Mine workings
1st through 8th levels.

Consultants in:

- base & precious metals • uranium
- coal • geothermal • environment
- remote sensing • color aerial photography
- interpretation-image processing
- worldwide Mobilization



3.54

4500 E. Speedway, Suite 14
Tucson, Arizona 85712
(602) 795-6097

James A. Briscoe, President
Registered Professional
Geologist

**Southwestern
Exploration Associates, Inc.**

September 6, 1979

Mr. David D. Rabb, Mining Engineer
Bureau of Geology and Mineral Technology
Mineral Technology Branch
University of Arizona
Tucson, Arizona 85721

RE: REQUEST FOR STUDENT VISIT P-418 TOMBSTONE, ARIZONA

Dear Dave:

We would be happy to have your class of 12 students and yourself visit the Tombstone heap leach project on Saturday, October 20, 1979.

For liability reasons, I appreciate your arrangement of a signed release for any liability we might incur while the students are on our property.

I would appreciate receiving a call from you a week in advance to confirm the date mentioned above for your visit.

Best regards,

James A. Briscoe
President

JAB:dlr
P-418

722

Southwestern Exploration Associates
4500 E. SPEEDWAY, SUITE 14
TUCSON, ARIZONA 85712
(602) 795-6097

DAY/TIMER
Time-Saver

LETTER

3-53

IN REFERENCE TO:

P- 418

FIRST CLASS MAIL INTER-OFFICE

FOR *Al Watterson on 457-3451*
Dusty Escapnik 457-3402

HOW TO USE THIS

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Time-Saver LETTER TO SAVE TIME.

Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

REPLY

FOLD

DATE *9/5/79*

Please give Mr. Jim Aspell bearing this note a tour of our Tombstone operations and access to any information he might find of interest.

Please also introduce him to Charlie and/or Louis Escapnik so that he has the opportunity to visit their State of Maine operation.

SIGNED

Jim Bosior

DATE *9-11-79* FOLD

Met Mr Aspell at 10:30 AM showed him our operation. Talked over Leaching methods. Then went to State of Maine introduced him to Charlie & Louis Escapnik. He looked over there operation and had a good talk with them. He thanked us for the time and information.

SIGNED

Al Watterson

9/5/79

Accomplishments at Tombstone

I. General Business

A. Establish rapport with locals

1. T.D.C.
2. State of Maine Mine - Chas & Louis Escapade
3. Escapade Geodesic - Earnie Escapade
4. Robt. Cowan - Rancher
5. Tom Pitcher - T.D.C. Tomb. Rep.

B. Logistics

1. Establish Apt. in Tombstone
2. Regain use of 71 minerals bldg
 - a. Clean out
 - b. Patch up where necessary
 1. Door
 2. Lean-to

B. Purchase of technical supplies to set up
sampling lab & barrel test facilities

C. Technical Labor - Metallurgical

1. Set up barrel test facilities
2. Install piping & tankage for
test ppt. plant
3. Install ppt plant

II Technical.

A. Negotiate for Rental of Equipment

1. Esc. Godesic - Earnies back hoe & test plant.
2. Cyanide Shaker Assays thru State of Mani Min.
3. Use of Sof Mm - Front end loader, & Back hoe
4. Robt. Cowan Bull dozer, low boy - tractor trailer & road grader.
5. Steve Henderson truck

D. Technical labor - Geologic - Mining Engineering

1. Lay out supervisor & conduct

Sampling of:

a. Drift samples Contention open cut.

b. Drift samples Cont Ext.

d. X cut samples Cont. Ext & open cut

e. Dump samples of 6A 10E dump.

2. Supervise loading of 6A 10E dumps

3. Supervise back haul cross cut trenching (4 days) & test mining

C. Regulatory Agencies

1. Ariz. State Mine Inspector.

2 visits several tele calls

2. MESA - purchase necessary safety equipment

III Conclusions

A. Dump loading & hauling costs were about 86¢/ton on \approx 20 ore

B. Test mining of 188 tons of material from the edge of NE. Cont. open cut ran in range of

1. Reserves
2. Proceedings

3-52

DAY/TIMER
Time-Saver

Southern Exploration Associates
4500 E. SPEEDWAY, SUITE 14
TUCSON, ARIZONA 85712
(602) 755-9397

LETTER

IN REFERENCE TO: 418 land acquisition

FIRST CLASS MAIL INTER-OFFICE

FOR T. F. W. & J. A. B.

HOW TO USE THIS

DAY/TIMER
Time-Saver LETTER TO SAVE TIME.
Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

DATE: 4 September, 1979 FOLD

An Arizona State Land Prospecting Permit Application for Tombstone Section 30, Twp. 20 South, Rgn. 22 East (SEE MAP) has been accepted by the State Land Dept. for S.E.A. Hydro. The Permit Application was filed on 28 April, 1979.

This section is one noted by J.A.B. & R.F.H. & is having high exploration potential.

Two sections adjacent are currently held by S.E.A. under Prospecting Permit, Sect 29 & 32 (SEE MAP)

Cost of acquiring this permit:

\$ 480.82 1st year rental.

\$ 20.00 Bond fee.

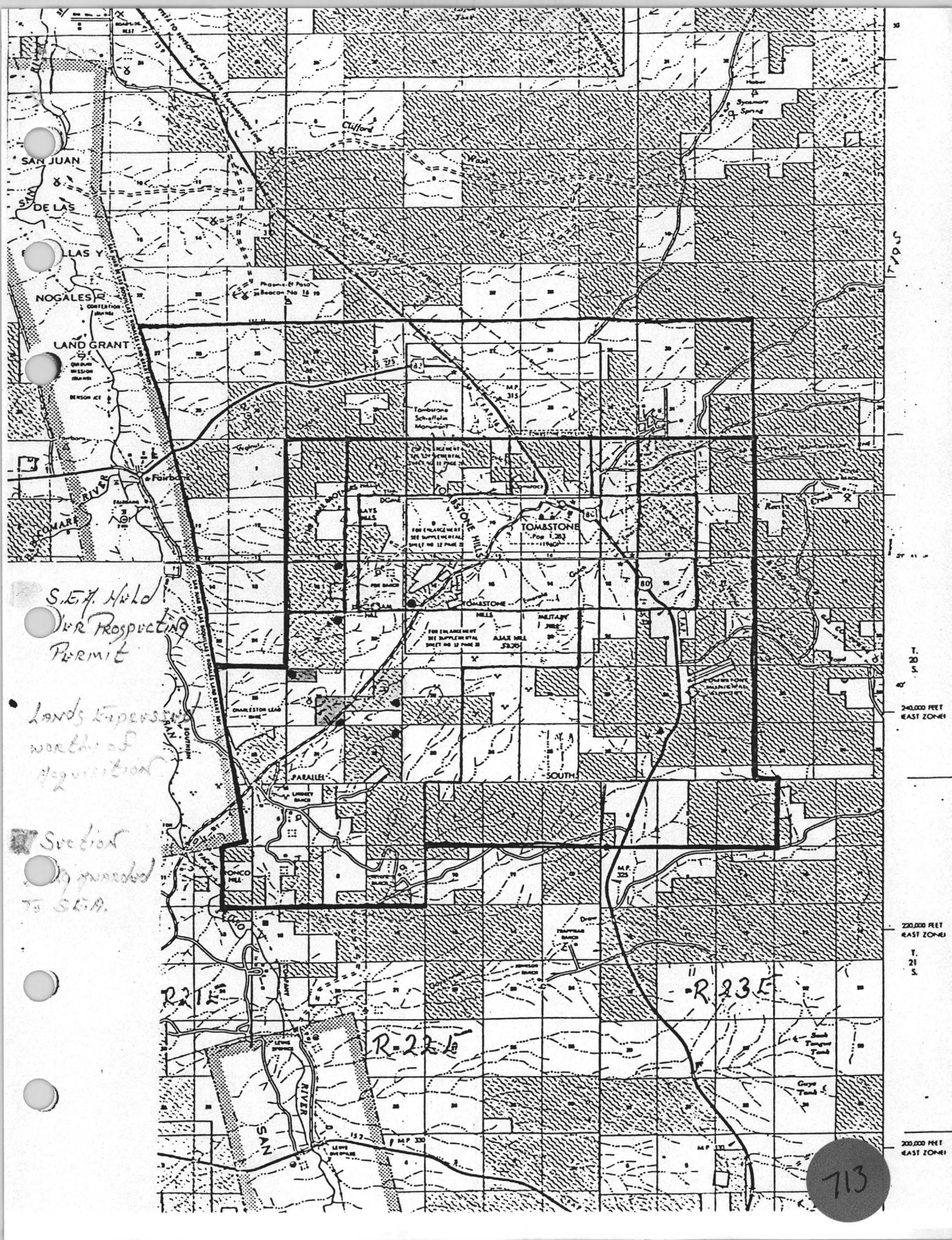
PLEASE Respond by Fri, Sept. 7, 79 as to the intended disposition of this Application. BY Chak

REPLY

DATE: _____

*S.E.A. hold
under prospecting
permit in section 30 & 32
of Tombstone
area.*

714



SAN JUAN

DE LAS

LAS Y

NOGALES

LAND GRANT

COMARIE RIVER

S.E. 1/4 Hold
OR Prospecting
Permit

Lands Expressly
withheld from
disposition

Section
reserved
to S.E.A.

R-22 1/2

R-22 1/2

R-23 E

SAN JUAN RIVER

SANTA TERESA RIVER

LIBERTY RANCH

ONCO HILL

PARALLEL

CHARLESTON LEAD

MAYES HILLS

TOMASTONE HILLS

MILITARY HILLS

ALAN HILL

SOUTH

Coyote Tank

Sage Tank

17400

T. 20 S.

240,000 FEET EAST ZONE

220,000 FEET EAST ZONE

T. 21 S.

200,000 FEET EAST ZONE

713

TO: FAMCO
 Mssrs. Tom Schloss and Dwight Lee

FROM: Prepared for Program Manager, G. A. Briscoe, by T. E. Waldrip, Jr., Project Manager, Southwestern Exploration Associates, Inc.

DATE: Tuesday, September 4, 1979

SUBJECT: Project 418 - Tombstone Project Daily Reports for Week ending August 17, 1979

Thursday, August 16, 1979

Tombstone:

Work continued on collecting channel samples as per memo of JAB's for 8/15/79 by BMP and JDK on the Contention open cut area. See memo by BMP dated 8/20/79.

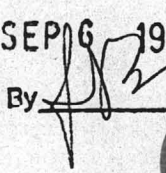
Drift (along strike of Contention dike and vein system) backhoe trench was cut for a length of 125 feet long by approximately 3 to 4 feet deep on the northeastern portion of the Contention dike extension area towards the ^{BMP}Bummer Shaft -- Old Contention pump shaft (?) -- using the rented Escapule backhoe. DE continued D-6-B dozer work, moving overburden from the eastern Contention dike area to facilitate mining, backhoe trenching, and ore removal. Road and ground improvement was made using Robert Cowan road grader.

Tucson:

TEW continued all day to run down materials for safety, improvements, barrel tests, lab set-up, and leaching operation. Cost estimates and purchase orders were also written.

General Comments:

Availability of needed materials at local merchants is a major problem, although we are gradually overcoming this obstacle. Mining tests were postponed by one week in order to get a better idea of ore tenor and problem at the State of Maine operation as discussed by JAB August 15, 1979.

REVIEWED
 SEP 6 1979
 By 

712

Friday, August 17, 1979

Tombstone:

Work continued on sample collection and geophysical survey of Contention dike area (see memo of BMP dated 8/20/79). Samples were collected along the newly excavated backhoe trench to the northeast of the open cut by BMP and JDK. Backhoe work of previous days had uncovered an extension of the vein system roughly aligned with the Contention open cut area. This zone was composed of breccia fragments of highly-altered Bisbee Group sediments and dike rock in a matrix of very friable alunitic clays and decomposed wall rock. Evidence indicates one, and possibly more, parallel-to-subparallel veins exist in the area. The radiometric survey was run across the area to determine if structures, veins, or rock types had any significant radiometric values. This could prove to be an extremely useful and economic tool for mapping and ore control but, as yet, data collected has not been fully interpreted or evaluated for usefulness and applicability for use on this project. AW and DE continue grounds clean-up, moving of equipment, International excavator from State of Maine operation and 71 Mineral building maintenance. BMP and JDK return to Tucson.

Tucson:

TEW continued to gather remainder of supplies for barrel test. Left for Tombstone, with gathered supplies at 2:00 P.M. Arrived at 4:00 P.M. Proceeded to unload supplies, checked work done to date and began set-up for barrel test. JAB remained in office for return to project site next morning.

REVIEWED

SEP 6 1979

By 

711

TO: FAMCO
Mssrs. Tom Schloss and Dwight Lee

FROM: Prepared for Program Manager J. A. Briscoe by Project
Manager T. E. Waldrip, Jr., Southwestern Exploration
Associates, Inc.

DATE: Wednesday, September 5, 1979

SUBJECT: Project 418 - Tombstone Project Daily Reports for week
ending August 24th, 1979

Saturday, August 28, 1979

Tombstone:

AW & TEW spent major part of day organizing and constructing 16 barrel test units, to begin running samples to be gathered during the first part of the week. Several people, including members of the State of Maine operation, reviewed our set-up and were impressed with the quality of thought going into our barrel test operation set-up. They inquired about where we had come up with such quality materials at such a low price (material cost of \$15/per barrel test unit). DE & TEW reviewed work to be done with rented International backhoe (excavation). We decided to clean up the eastern edge of the Contention cut in order to make it safer to operate the excavator in and near the edge of the open cut. This was necessitated by the fact that four feet of soil (overburden) was still located with 20 feet of the cut edge, making sluffing of material into open trenches and cut a safety problem. With the Cat D-G-B, dozing had to be kept to a safe distance, due to the fractured nature of the cut edge and to potential sluffing conditions present. Four and one-half hours were spent removing approximately 50 tons of material from the edge of the cut and in making this particular part of the operation much safer. Escapule's front end loader was later used to stockpile rock coming from the operation, should it prove to have leachable values. DE spent remainder of day on excavator, trenching an approximate 50 feet by an average of 3' deep trench normal to the strike of the open cut on its southeastern side, approximately 30 feet northeast of the waste dump near the crest of the small hill (old Contention inclined shaft [?]). JAB arrived from Tucson at approximately 3:30 P.M. All involved reviewed progress, work schedules, and potential ideas for development work.

REVIEWED
SEP 6 1979
By _____

710

Sunday, August 29, 1979

Tombstone:

Short review of work to be accomplished. AW worked on finishing of the barrel testing units, and cleaning, organizing lab ware and general building. Makeshift door put in where hole was cut in building wall. DE worked on International backhoe (excavator) digging four trenches at the far northeastern portion of the open cut. Two trenches cross cut Contention vein system; one was to the northeastern side into an old adit and also extending it into the hanging wall side of the veins; one cut paralleled the vein system and connected the two trenches mentioned above. JAB and TEW reviewed operation of excavator throughout the day, collecting samples and observing various rock types encountered during excavating.

Dave Rabb drove down from Tucson to review progress, and went over our barrel test set-ups. We reviewed solution strengths and various lab techniques which were incorporated into our plans, as well as length of times to have barrel test on in order to get accurate estimates of ore tenor and leaching conditions.

General Comments:

International backhoe (excavator) has been not only an extremely cost-effective way of obtaining pertinent data necessary to correctly evaluate potential ore reserves in the Contention open cut area, but also as a safe and efficient way of opening dangerous open stoped areas and ground of questionable nature. With this machine, surface mining is applicable and should be investigated for all areas within 50 feet of the surface (using benches), and quite possibly to even greater depth should conditions warrant. We are extremely appreciative to the Escapule's and State of Maine Mine operation for allowing us to use this and other equipment, plus all the free advice, and help so graciously given. This family has literally been going out of their way on certain occasions to see that we are supplied with machinery on time, assay results, etc.; they are to be considered one of our greatest assets in the area, making a marked change for conditions existing heretofore.

Geology in Trenches:

Trenches crosscutting vein system -- veins in a zone approximately 12 to 15 feet wide contain breccia and fault gouge. Extreme alunitic alteration is found in both the veins and breccia fillings throughout the zone. Minor residual iron oxides are found in major veins which may run up to five inches in

REVIEWED

SEP 6 1979

709

LMB

width, pinching and swelling throughout the exposure. Minor massive quartz veins contain pockets of cerussite, which should run relatively high in Ag and Au if past production records are indicative of where and how ore occurs. Several drifts, stopes or adits were uncovered during trench excavation which have been back-filled with "gob" or dump material, and should also have leachable values present. Outside the veins, the wall rock is very hard and confident, suggesting little alteration, save for possible silicification, of the original Bisbee Group sediments.

It was decided to continue work through the week without taking off Monday and Tuesday as originally planned. TEW and JAB returned to Tucson Sunday evening.

Monday, August 20, 1979

Tombstone:

International excavator and front end loader were returned to State of Maine operation by DE and AL. Barrel test procedures were reviewed with Louie and Charlie Escapule. Returned to operation and collected seven barrel samples from various trenches and dumps. (See Barrel Test Leach Data Sheets B-1 through B-7) Tests were set up and began at 1:00 P.M. Rest of afternoon was spent trying to get caught up on paperwork and locating Ernie Escapule, whose ppt. plant we were to use (found not to be in town [Tombstone]).

Tucson:

TEW and JAB worked on getting expense account ledgers together and ordering additional supplies and chemicals.

Tuesday, August 21, 1979

Tombstone:

DE and AW picked up Ernie Escapule's ppt. plant and brought it to the site. Spent remainder of day getting plant cleaned up and in running order and collecting samples for barrel tests, in addition to cleaning up lab glass ware, getting samples assayed, and catching up on paperwork.

Tucson:

JAB and TEW completed expense accounting, and began picking up needed supplies.

REVIEWED

SEP 6 1979

By JAB

708

Wednesday, August 22, 1979

Tombstone:

DE and AW worked on collecting an additional 9 samples from previous materials stockpiled on test leach pad, and from trenching operation performed on Sunday, August 19, 1979. (See Barrel Test Leach Data Sheets B-8 through B-16). Cleaned out old barrel tests started on Monday, August 20, 1979. Set ppt. plant up, collected and work on previous sample data.

Tucson:

TEW, JCB, JDK, and JAB finished getting supplies packed and traveled to Tombstone. Unloaded supplies and began work on 14 additional barrel test set-up. JAB arrived around 3:30 P.M., reviewed progress and made evaluation that present time schedule is approximately three days behind schedule.

Thursday, August 23, 1979

Tombstone:

DE and AW moved ppt. plant into 71 Minerals building and set-up again for more security and better working conditions. DE used Cat D-6-B to doze out cross cut sample area near old Contention (^{Boom} ~~Bummer~~) pump shaft. TEW, JAB, JDK, and JCB cleaned up cut brush and burned it along trend of Contention dike. All began collecting drift and cross cut samples in late morning along collapsed zone. Continued sample collection for remainder of afternoon on all areas of outcropping rock in area of mined out rock. JDK and JCB measured all sample intervals collected, and JAB and TEW began collecting barrel test samples on zones cross cutting vein structures in trench dug during Sunday, August 19, 1979. Steve Henderson began moving ore to leach pad from old inclined Contention shaft, using Escapule front-end loader and his truck. Steve worked from approximately 10:00 A.M. until 1:00 P.M. when he had to work on another job for the City of Tombstone. Approximately 150 tons of ore were moved during the day's mining activity.

Friday, August 24, 1979

Tombstone:

Steve Henderson and helper continued to move ore from old Contention dump to test leach heap. Throughout the day approximately 2/3 of the dump was removed and trucked to the leach pad, accounting for approximately 280 tons of material moved during the day. Approximately four truck loads of material were moved each hour, accounting for 50 to 60 tons. Assuming 50 tons, the actual direct cost for moving the material amounted to \$0.50/ton truck and driver and \$0.30/ton front-end loader rental

REVIEWED

SEP 6 1979

By JAB

707

for a total of \$0.80/ton ore moved. This would seem to indicate that easily accessible waste rock containing as little as 0.5 oz. leachable Ag may be worthwhile as a feed stock in the initial operation to generate sufficient exploration cash flow and time to delineate additional higher grade ore reserves.

DE and AW continued work setting-up plant and getting things operational for leaching to begin during the next week. Plant was cleaned, connection and pipe ordered, main water lines connected, and water tanks moved. As always, continued barrel tests were sampled and results sent to be assayed. JAB, JCB, JDK and TEW continued sampling materials from trenches, dozer cuts, and finishing up work from the day before. Samples were collected for both shaker tests and barrel test. Eighteen barrel test samples were collected, along with 25 channel, drift and cross cut samples, during the two day period. JAB left for Tucson at 12:30 P.M.

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REVIEW

SEP 6 1979

BY JMB

To: FAMCO
Mssrs. Tom Schloss and Dwight Lee

From: Prepared for Program Manager, J. A. Briscoe
by Project Manager T. E. Waldrip, Jr.
Southwestern Exploration Associates, Inc.

Date: Wednesday, September 5, 1979

Re: Project 418, Tombstone Project Daily Reports
for Week Ending August 31, 1979

Saturday, August 25, 1979

DE, AW, TEW, JCB, & JDK began work on setting up and running P.V.C. pipe to ppt. plant & makeup tank and connecting of water lines. Old solution in pregnant solution pond was tested and found not to contain values; water was pumped out of pond in anticipation of its use during leaching tests during the next week's operation. Steve Henderson continued removing old dump ore to the leach pad, removing the remainder of the dump. Approximately 150 tons of material was moved during this day's operation, amounting to about 600 total tons of material moved during the three-day mining operation. This, plus an additional 300 estimated tons already on the pad, constitutes our 900 ton leach test to be run using Ernie Escapule's ppt. plant. Barrel test indicates much of this ore should contain at least an estimated one troy ounce leachable silver content, and average estimated gold content of in the range of 4 to 5 dollar value. Assuming ideal conditions during leaching, we should expect our recovered concentrates to be valued in the range of \$10,000 to \$12,000 for this 900 ton test.

Work continued in the afternoon using the International backhoe excavator (after pickup from the State of Maine operation) to run actual mining tests to stockpile ore from the edge of the open cut and to extend sample trenches and delineate additional ore reserves to be mined in the near future. Approximately 25 tons of material was mined and stockpiled by Steve Henderson during a 2.5 hour period in the afternoon. Sample sites were delineated for the next day's trenching operation along the southeastern edge of the contention open cut. JAB arrived on site about 10:30 a.m., reviewed progress and work schedules. TEW, JCB, and JDK constructed additional barrel test bench during early afternoon.

Sunday, August 26, 1979

TEW, JCB, JDK, AW, & DE continued work on water lines and piping system to ppt plant. Cyanide mixing tank was purchased, and piping was connected. AW & DE took afternoon off. TEW, JCB, JDK continued by getting sprinkler lines together and found enough used P.V.C. pipe to string another effluent line from the leach pad to the pregnant pond.

Steve Henderson worked with JAB on additional trenching operation to open additional barrel test sample collection sites. This continued through late afternoon. JAB returned to Tucson.

Monday, August 27, 1979

TEW worked on gathering piping supplies needed for additional work on spray lines and various tank hookups. JCB and DE tested water lines to plant. AW worked on sampling barrel tests, getting assay results back, and doing paperwork. Vernon Dale visited mining operation; discussed progress on safety conditions, dust and noise levels. Steve Henderson was working on International excavator, making mining test of high grade area wall rock and loading it on separate area of leach pad. Approximately 160 tons were moved during the day (see memo from JDK, 8/30/79). Cleaned up plant and made safety improvements for anticipated return of Vernon Dale to plant site. He returned, but only to check dust levels at the mining site.

Tuesday, August 28, 1979

Work continued on piping setup; all work was completed and ready to start spray operation the next day. Poor weather (wind) during p.m. so could not run sprinklers. Did odd jobs and posted safety signs on cyanide tanks in anticipation of visit by MSHA people. Visited with Tom Pitcher and tried to get unpatented claim matters taken care of. He did not have copies of claim notices, so TEW will have to go to Bisbee to get them prior to mid-September. Also spoke about land east of large heap and cyanide drums which Carl Nelson was picking up. T.D.C. will try trade of ground with current owner of land since it would be an ideal area for leach pad. TEW, JCB, JDK returned to Tucson.

Wednesday, August 29, 1979

Tombstone:

DE & AW continued work on getting the ppt. plant operational, and began spraying the test heap with cyanide solution. Had problems with weather (wind) and had to shut down before effluent was returned. Ran assay of barrel tests to State of Maine operation for assay and cleaned up paperwork related to barrel test samples. Return collection gate installed on leach pad.

Tucson:

JAB & TEW began expense and time accounting for prior three week period. Finished gathering information on purchase of chemicals needed for operation, and went through accounting process to get money. Prepared JDK for trip to Tombstone the following day.

Thursday, August 30, 1979

Tombstone:

Minor problems with water system; fixed. Four foot effluent line connected with main pad effluent line to pregnant pond. Continued work on sample collection and paperwork. Cleaned lab ware. Had to shut down sprinkler early due to weather and no one available to watch operation during p.m. hours. JDK delivered supplies (cyanide, sodium hydroxide) to site and picked up additional items needed back in Tucson. Returned to office.

Tucson:

Work continued on getting expenses together and times accounted. Billings were checked.

Friday, August 31, 1979

Tombstone:

DE & AW completed work on ppt. plant and continued spraying to build pregnant pond to begin ppt. operation the next day. Samples were collected and assayed. Paperwork was continued and caught up, anticipating continuous 16 hour operation of ppt. plant.

Tucson:

Finalized expenses and timesheets. Reports, graphs, and additional paperwork was begun.

TEW:cmd
P-418

SEP 6 1979

By HR

BARREL TESTING PROCEDURES

1. Collect Representative Samples - This is generally a channel sample collected normal to dip of structure, alteration, bedding, or rock type, if determinable. In some cases, grab samples are collected from dumps or high grade areas, such as veins or when loading samples on the heap leach. In all cases, a representative sample is desirable. All workers have been instructed on proper sampling procedures, and all are under direction of an experienced geologist or sampler.
2. Representative Samples of this material are bagged and sent to be run by shaker testing, generally in amounts of 5 to 10 lbs. In addition, representative samples are bagged for on-site reference and comparison if necessary.
3. Various samples are also selected, at random, to be sent in for fire assay to determine actual contained metal values and as a check for percentage recovery during leaching.
4. Barrel test sample weighed to 50 lbs.
5. Ten liters of water is added, using actual water to be used during leach operation.
6. Alloquats of pre-made cyanide and sodium hydroxide added to bring final solution strength to approximately two lbs. free cyanide per calculated ton of solution, and to raise pH to around 11.
7. Barrel testing started.
8. Sample collected for analysis on 6, (12 or 18), 24, & 48 hour intervals and longer, if necessary.
9. Samples filtered and put into glass pyrex jars for immediate analysis on A.A. unit.
10. Alloquats taken as each sample interval is drawn off and tritrated with KI to determine concentration of free cyanide still left in solution.
11. pH test continually run to make sure that pH remains around 11 or higher.
12. Additional cyanide and sodium hydroxide added to bring cyanide up to plus 1 lb. per ton of solution and pH back to near 11 after each sample interval.
13. Charts are kept on each barrel test onto which assay data, weights and amounts of material, are added, plus all titration data and a calculation of actual metal values leached from each ton rock on a ratio basis.

MEMO

TO: TEW, JAB

FROM: BMP

DATE: 8-20-79

RE: Tombstone Sampling Work of August 15-17, 1979

Work Completed

Work completed from August 15 through August 17 included geochemical sampling and radiometric surveys along the Contention Fault trench and associated cross-cuts.

A total of 58 channel samples were collected. Each sample represents 20 feet of outcrop irregardless of rock type and alteration zone variations.

A daily breakdown of samples collected is as follows:

<u>Date</u>	<u>Sample #</u>	<u>Total</u>
August 15	4017 - 4031	15
August 16	4011 - 4016	
	4032 - 4042	
	4044 - 4058	32
August 17	4059 - 4069	11

Samples 4017 - 4040 were collected along the east side of the Contention trench and 4041 - 4058 (excluding 4043) were collected along the west side of said trench. 4059 - 4069 were collected along various cross-cuts which intersect the northern length of the trench.

A radiometric survey was completed on August 17, 1979, along all sample sites using a Geometrics GR-101A Scintillometer. A reading was taken at 10 foot intervals - two readings per length of outcrop sampled.

Cost

<u>Wages</u>	<u>Burden rate (base 39 ^{39 1/2})</u>	<u>Total hours</u>	<u>Cost</u>
BMP @ 6.25/hr	869	39.6	\$247.50 344.12
JDK @ 4.25/hr	591	39.0	165.75 230.48
TOTAL			\$413.25 574.52

40%

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Equipment

40 - off Rol should have been charged.

1979 Blazer (203 miles @ \$0.04/mile)	\$81.20
58 sample bags	58.00
1 GR101A Scintillometer (\$15/day)	45.00
1 310 Gamma Ray spectrometer (\$23/day)	69.00
2 Backpacks (\$1/day each)	6.00
Mobile phone (\$4/day)	12.00
Rolotape (\$1/day)	3.00
Transit (\$10.50/day)	<u>31.50</u>
	\$305.70

Expenses

BMP	\$10.20
JDK	<u>93.09</u>
TOTAL	<u>\$103.29</u>
TOTAL FIELD WORK EXPENSES	\$822.24

didn't work so can't charge not applicable

Southwestern Exploration Associates
4500 E. SPEEDWAY, SUITE 14
TUCSON, ARIZONA 85712
(602) 755-9397

DAY/TIMER

Time-Saver

LETTER

RECEIVED SEP - 5 1979

IN REFERENCE TO:

FIRST CLASS MAIL INTER-OFFICE

FOR Tom Waldrip

Southwestern Expl. Assoc.
4500 E. Speedway Suite 14
Tucson ARIZ 85712

HOW TO USE THIS

DAY/TIMER

Time-Saver LETTER TO SAVE TIME.

Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

DATE: 9-3-79

FOLD

9-1-79

Work done to get 65 ton a day plant going

5:00 AM - 9:00 AM. Dusty changed 3 PVC valves that were leaking on feed line, Barren line and NACN mix tank line. These were out valves that will have to be worked over, so they will work right. They were used in Dick H operation.

9:00 AM Dusty picked me up to start plant. Decided to put Barren sampling valve in Barren line so it would be easy to take samples. Cleaned valve on preg sample line.

10:00 AM Started plant. Dusty showed me start up procedure to refresh my memory. Plant operating at 11:00 AM 21" VAC. 10:10 VAC pump drawing water drew water from VAC tank with preg pump. Started plant again. Probes still not working properly. Pulled probes out to see if they were clogged or dirty. Then were in and showed.

REPLY

Tried plant again probes still not working properly. Worked probes manually to see if we could get them working. 12 noon shut plant down went to lunch. 12:30 decided to check relays. Took relays apart, cleaned and filed down points. Started plant up at 2:30 PM. Probes worked off and on sometimes good, then quit again. 3:00 PM VAC pump got hot and cut off automatically due to too much water in pump. Pump motor had to cool down. Started pump up again at 4:00 PM. Still getting water in pump. Probes not working. 4:30 PM shut plant down for day. Will see Charlie or Ernie to see if they can tell what's wrong.

Charlie and Ernie are off for labor day weekend. So will run plant manually.

BY F. Waldrip

699

DAY/TIMER

Time-Saver

LETTER

IN REFERENCE TO:

Southwestern Exploration Associates
 4500 E. SPEEDWAY, SUITE 14
 TUCSON, ARIZONA 85712
 (602) 775-0007

RECEIVED SEP - 5 1979

FIRST CLASS MAIL INTER-OFFICE

FOR Tom Waldrip

Southwestern Explor. Assoc.
 4500 E Speedway Suite 14
 TUCSON ARIZ 85712

HOW TO USE THIS

DAY/TIMER

Time-Saver LETTER TO SAVE TIME.

Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

DATE: 9-3-79

FOLD

Ran plant 6.5 hrs Had To shut it down as I ran out of prep. I started make up water to late. Didnt realize depth of pond. As of 2:45 PM Today. we have run 16-7 tons solution through plant

Approx 25.05 oz Ag and .43 oz Au. We have not had late assays. So used 1.25 Ag .026 Au. per ton solution

Averaged 10-2 gal solution per min while running.

We should run approx 24 hrs / day which will require one more man. Then we can run plant 16 hrs.

As per previous message running plant manually does not allow operator to check prep or prep tank without shutting down plant.

BY

FW (ae) Waltrou

REPLY

DATE:

BY

698

To: T.E.W.

From: J.D.K.

Subject: Rate of Ore removal by International
backhoe, operated by Steve

Project :- Tombstone 418

DATE: 8/30/79

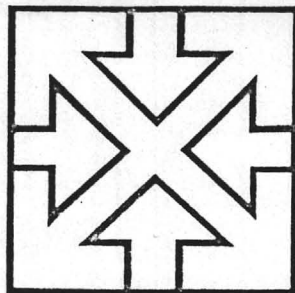
It took approximately 20-25 seconds for each bucket of material to be loaded onto the dump truck. The dump truck held approximately 35-40 buckets of material from the backhoe which took on the average of 17 min to load the truck each time. Taking the truck down to the pad to unload it and then back up to the site took 7 min 30 sec.

This data is the results of timing Steve's rate of work on 2 occasions during the day. During the second visit to the site Steve's work rate fell because Vernon, ^{Dale} the State Mine Inspector was at the mining site inspecting working and safety conditions.

J.D.K.

Consultants in:

- base & precious metals • uranium
- coal • geothermal • environment
- remote sensing • color aerial photography
- interpretation-image processing
- worldwide Mobilization



3-50 4500 E. Speedway, Suite 14
Tucson, Arizona 85712
(602) 795-6097

James A. Briscoe, President
Registered Professional
Geologist

Southwestern Exploration Associates, Inc.

September 1, 1979

Dr. John D. Dean
Elmdale Road
Box 102, Route 2
North Scituate, Rhode Island
02857

RE: Memo of 8-28-79 to JAB concerning refractory high
manganese ore, Tombstone Mining District, Arizona

Dear John:

I received your memo of August 28, 1979, today and will briefly review the data I have at hand, without doing further research. Regarding the assay values on the high manganese portion of the 71 Minerals Heap, I believe that these represent cyanide leach assays, rather than fire assays. However, I will have to do further checking to verify this before I can be certain. I suspect Al Waterson may know the answer. If they are indeed cyanide assays, this material would form very attractive leach ore with current prices.

I believe that most of this material is in one area on the heap and, thus, can be relatively easily segregated from less manganiferous ores.

Most of this manganiferous material came from the Emerald Mine which is situated in a limestone gangue environment. Thus, I think all of the ore will be acid reactive. Either a high acid consumption will have to be justified by the metal recovery, or we will have to go to a basic leach treatment of the ore.

Dr. John Dean
September 1, 1979
Page 2

Considering the relatively large tonnage of easily accessible material at the relatively high rate of \$60 per ton, I think research to determine a suitable metallurgical extraction technique on this manganese ore is certainly justified. During your next trip out, we could obtain a representative sample on which test work could be performed, if Tom agrees.

Best regards,



James A. Briscoe
President

JAB/db

cc: Tom Schloss
Dwight Lee
Tom Waldrip, Jr.

P-03
00-016

JOHN G. DEAN

RECEIVED SEP - 4 1979

349

401 -- 934-0060

Elmdale Road, Box 102, Route 2, North Scituate, Rhode Island 02857

Sept. 1, 1979

Mr. J. A. Briscoe, President
Southwestern Exploration Assoc's.
4500 E. Speedway, Suite 14
Tucson, Arizona 85712

Dear Jim:

As you know from our conversations from time to time, I have been trying to work as productively as possible and at minimum practical expense on the Tombstone project. A copy of my letter of Aug. 17 to Dwight, prepared at his request, is enclosed to provide some added background.

Also enclosed is a copy of my statement for August to FAMCO which brings forward also my statement for July. In spite of billing for only half the time worked on the project, the amount is becoming substantial and I am genuinely sorry about this.

Over the years, I have tried to be very generous and flexible in applying my time to evolving projects. I have done a vast amount of work on promising and technically interesting, but struggling, projects at no charge whatsoever, as I am sure you have also. But the results have not been satisfactory for several reasons, including impositions on my time and lack of respect for and attention to my suggestions.

A 50% compromise seems to be about as far as it is practical to go in development of a practical project with form and substance. If this seems beyond the means of the sponsor or doesn't seem reasonable to him, the whole project should probably be re-evaluated. A stock interest in a prospective failure does not present a satisfactory basis for the essential incentive to success.

A project like the one in Tombstone calls for really dedicated effort with the work day sometimes extending to 16 hours, without counting the extra hours or the personal sacrifices. The obligations that ensue from this kind of situation are also personal in nature and must be so honored. It is not a situation for voiding through insufficient funds, as I am sure you agree.

Your help in resolving payment of my reduced invoices will be greatly appreciated, and I in turn will do every thing I can to help with the project.

With kindest regards,

John

JGD:bm; encl. 2.

694

J. A. Briscoe

JOHN G. DEAN

401 -- 934-0060

Elmdale Road, Box 230, Route 2, North Scituate, Rhode Island 02857

Sept. 1, 1979

FAMCO, INC.
1700 Broadway
New York, N. Y. 10019

Attention: Mr. T. H. Schloss, Chairman of the Board

Statement for August, 1979 re: Tombstone gold and silver project.

SERVICES:

Continued development of the Tombstone project, review of reports, preparation of memos and letters, and extensive phone conversations(15 hours) relating to operations.

Two day portion of time devoted @\$300/day --- \$600.00

Previously invoiced for July:

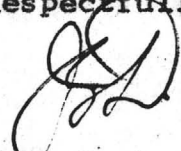
Twelve day portion of time @\$300 --- \$3600

Expenses ----- 84

3684 3684.-

TOTAL \$4284.-

Respectfully submitted,



John G. Dean, Ph. D.
Consultant

JGD:bm
cc: JABriscoe, SEA & TEI

693

J. A. Bruce

Confidential

August 17, 1979

Mr. Dwight Lee
FAMCO, Inc.
1700 Broadway
New York, N. Y. 10019

Dear Dwight:

In accord with your request, I have reviewed background developments relating to our working arrangements with the main objective of proposing a new plan which might better meet the the changing circumstances of the Tombstone project.

In April at the start of the project, I submitted one of our standard Agreements covering a consulting arrangement with FAMCO, WITH A per diem of \$300 per day plus expenses. In June Tom submitted a counter proposal incorporating most of the previous paragraphs, but shifting the agreement to TEI with consulting to Richard Hewlett.

On June 19, Tom and I went to Tombstone to observe the progress of Dick's thiosulfate leaching of the heap. It gradually became apparent through tests we made, confirmed by the small yield of metal, that this program was not working and possibly was not based on sound concepts or adequate lead information.

It, of course, became very apparent under these clouded conditions that it would not be in the best interest of FAMCO for me to consult to Dick, when the very urgent need was for me to check his chemistry and leaching plan. It became equally clear that my working agreement should not be with TEI when its very foundation was threatened.

We then went into a phase of very intensive night and day work even through the weekends to check Dick's acid pretreatment, thiosulfate leach, zinc precipitation process without deaeration, and confirmed that it was unlikely to work. We also began intensive work on cyanide leaching of independent samples in order to develop a new program of promise.

It soon became obvious that my time was urgently needed far beyond any provision in the previously drafted Agreements. We evolved an interim plan under which I would bill for out-of-office time at \$300 per day and for half the time worked here, with the balance being carried forward for a possible participation interest. This plan was used for the June and July statements; I also agreed to reduce my time to a practical minimum

692

Aug. 17, 1979

during August while Tom was away. In view of the critical problems which you are having to face, this plan has seemed to require some flexibility with another critically important trip to Tombstone under day-by-day consideration.

During this second critical phase when my continuing help promises to be very important, it still seems essential that I report to you and Tom and that we work cooperatively in a framework of friendly trust and assured financial resources. A working agreement or stock interest in a corporation "of convenience" would not be in harmony with the requisite personal relationship for effective, bluntly honest and dedicated effort.

My suggestions, based on this review are as follows:

1. My statement for July is in accord with the plan used and accepted in June, and projected for July in my letter of July 2 to Tom. Prompt payment through whatever account best meets your requirements is respectfully requested.

2. At the earliest possible moment, but certainly before another trip to Tombstone, please outline a definite working plan which will forestall misunderstandings during this critical interim period.

3. We should very soon be able to project a sound plan for developing the seemingly considerable resources of the Tombstone area and this should pave the way for developing a working agreement involving reduced fees and an equity interest. I shall look forward to cooperating in every way I can with a sensible and effective arrangement of this type.

Sincerely,



John G. Dean

JGD:bm
Encl.

JOHN G. DEAN

401 -- 934-0060

Elmdale Road, Box 102, Route 2, North Scituate, Rhode Island 02857

Aug. 28, 1979

REVIEWED

SEP 1 1979

By *[Signature]*

Memo to: J. A. Briscoe, SEA; cc: DL-THS, FAMCO.

From : J. G. Dean

Subject: Refractory High-manganese Ore, Tombstone area.

Dear Jim:

In Dick's massive report of 2/20/79, p. 70, he indicates that about 20% of the Minerals 71 heap is made up of high-manganese ore averaging 0.155 oz/T gold and 1.44 oz/T silver, suggesting gross values of \$60/T at todays prices.

If we can accept these figures, which presumably were obtained by fire assay, this Mn-fraction would seem to contain substantial values still in place because of the refractory nature of the material to direct cyanide leaching.

Questions arise as to whether this material can be readily segregated from the main heap, whether additional sources of this same kind of material are readily available, and of course whether there is a possibility of economic treatment.

The USBM has done some research on this type of material, notably with sulfurous and sulfuric acids, and has reported encouraging results. This suggests still another question as to whether this fraction can be isolated from the limestone abounding in the area so that there is a possibility of getting the acid requirements down to a manageable level.

There is also some possibly of developing a process which can work in the presence of limestone by shifting to reducing agents which can work in the alkaline range. Considerable pertinent information on this approach has been developed in work on manganese nodules and wad which may contain nonferrous values of interest.

I shall look forward to a discussion of this subject with you and in the meantime any background information you can develop will be of interest.

Best regards,

John

RECEIVED SEP 1 1979

JGDean:bm

690
1042

August 1949

TOMBSTONE EXPLORATION - MAIN ACCOUNT
 Account # -16344
 Balance forward

REVIEWED
 SEP 1979
 By *[Signature]* 256.41

<u>DATE</u>	<u>PAID TO</u>	<u>PURPOSE</u>	<u>CHECK #</u>	<u>AMOUNT</u>
8/08/79	Robert Cowan (P.O. 6411)	Equipment rental	1021	2,500.00
8/08/79	Escapule Geodesic (P.O. 6335)	Equipment rental	1022	250.00
8/08/79		Deposit		5,000.00
8/08/79	Nellie Cashman	Apartment rent	1023	140.00
8/08/79	Tombstone Development Co.	Rent on 71 minerals building	1024	180.00
8/08/79	Tombstone Exploration- Salary Account	To cover payroll	1025	1,400.00
8/09/79	Charlie Escapule	Payment on vacuum pump	1026	96.00
8/14/79		Deposit		1,200.00
8/14/79	Robert Cowan	Final payment on Dozer	1027	875.00
8/14/79	State of Maine Mine Inc.	Assays and crushing	1028	500.00
8/14/79		VOID	1029	VOID
8/15/79		Deposit		6,200.00
8/15/79	Super City (P.O. 6326)	Two folding tables	1030	103.86
8/16/79	Zee Medical Supply Co. (P.O. 6318)	Supplies	1031	33.81
8/16/79	Wally Sevits Air Cond. Co. (P.O. 6317)	25 water pumps.	1032	153.70
8/16/79	Hill Brothers Chemical Co. (P.O. 6316)	Two sacks Custic Soda	1033	35.78

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3-47

<u>DATE</u>	<u>PAID TO</u>	<u>PURPOSE</u>	<u>CHECK #</u>	<u>AMOUNT</u>
8/16/79	United Fire & Safety Co. (P.O. 6315)	Supplies	1034	218.57
8/16/79	Lucky's	Supplies	1035	12.68
8/16/79	Super City (P.O. 6311)	Four Folding Chairs	1036	33.87
8/16/79	Tucson Blueprint (P.O. 3530)	Supplies	1037	48.97
8/16/79	Woolco (P.O. 6310)	12 baby bath tubs	1038	64.40
8/16/79		VOID	1039	VOID
8/16/79	Sears, Roebuck & Co. (P.O. 6307)	Supplies	1040	59.66
8/16/79	Cooper Asphalt (P.O. #6306)	25 barrels, 5 gallon tops	1041	79.50
8/21/79	Dustin Escapule	Mileage reimbursement	1042	76.90
8/21/79		Transfer into Operating Account		200.00
		Service charge		.50
8/21/79	Eldred W. Watterson	Expense reimbursement	1043	15.98
8/21/79		Transfer into Salary Acct.		1,500.00
		Service charge		.50
8/21/79	Irrigation & Sprinkler Supply (P.O. 6293)	Supplies	1044	81.81
8/21/79		VOID	1045	VOID
8/21/79	Cooper Asphalt (P.O. 6292)	Supplies	1046	53.00

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<u>D</u>	<u>ID TO</u>	<u>PURPO</u>	<u>CHECK #</u>	<u>AMOUNT</u>
8/21/79	Fed-Mart (P.O. 6287)	Supplies.	1047	24.37
8/22/79	Super City (P.O. 6290)	Supplies	1048	87.95
8/22/79	James C. Blankenship	Travel advance	1049	40.00
8/22/79	John D. Kasprowicz	Travel advance	1050	40.00
8/24/79	Circle K	Diesel fuel	1051	39.00
8/24/79	Foxworth-Killen (P.O. 4418)	Supplies	1052	495.67
8/24/79		VOID	1053	VOID
8/24/79		VOID	1054	VOID
8/24/79		VOID	1055	VOID
8/24/79		VOID	1056	VOID
8/24/79	James A. Briscoe	Travel advance	1057	50.00
8/24/79	State Compensation Fund	Ins. #122095-3	1058	682.00
8/24/79		VOID	1059	VOID
8/24/79		VOID	1060	VOID
8/24/79	Cooper Asphalt (P.O. 4334)	Supplies	1061	53.00
8/24/79	Pioneer Paints (P.O. 4468)	Paint	1062	23.85
8/24/79	Ace Hardware (P.O. 6269)	Supplies	1063	22.02
8/30/79		VOID	1064	VOID
8/30/79		VOID	1065	VOID

687

<u>DATE</u>	<u>PAID TO</u>	<u>PURPOSE</u>	<u>CHECK #</u>	<u>AMOUNT</u>
8/30/79		VOID	1066	VOID
8/30/79	McKesson Chemical (P.O. 5760)	Chemicals	1067	388.91
8/30/79		VOID	1068	VOID
8/30/79	Hill Brothers Chemical Co. (P.O. 5759)	Chemicals	1069	122.54
8/30/79	Tombstone Exploration- Salary Account	To cover payroll	1070	550.00
8/30/79	Arizona Department of Economic Security	2nd quarter taxes	1071	667.80
8/30/79	Steve Henderson (P.O. 5765)	Truck rental	1072	425.00
8/30/79	Steve Henderson (P.O. 5765)	Contract labor	1073	63.00
8/30/79	Merchandise Research (P.O. 6082)	Supplies	1074	1.59
8/30/79	Dustin Escapule	Expense reimbursement	1075	90.08
8/30/79	Eldred Watterson	Expense reimbursement	1076	13.82
		Balance		61.32
EXPENSES:				
		Mountain Bell phone bill		461.26
		State of Maine Mining Co.		164.00
		Astra Industries		161.20
		Merchandise Research		204.42
		Payroll (approx)		600.00
		Payroll taxes (approx)		1,800.00
		Total required to cover expenses		3,329.56

August 1979

Jim following is a cost break down of expenses estimated to have occurred during the week of August 11th through 17th, 1979 for the Tombstone Exploration Company.

Item	Cost	% of Total Cost
Salaries and Per Diem Expenses	\$1300.00	27.6
Metallurgical Chemicals	\$60.00	1.3
Office Supplies	\$90.00*	1.9
Lab Equipment - glass ware - barrel test units	\$630.00*	13.4
Office Equipment	\$235.00*	5.0
Mining Equipment Rental	\$200.00	4.3
Reproduction Supplies	\$50.00*	1.1
Apartment Rental	\$140.00	3.0
Vehicle Rental	\$300.00	6.4
Lease on T.C.D Property	1700.00	36.1
TOTALS	\$4705.00	100.1%
Electricity & telephone not included + \$300	= \$5005.00	
* one time cost. \$1005.00		
= 21.4%		

Lease on TDC Property

1700.00

21.3

TOTAL

\$ 7966.00

99.7%

Electricity and telephone not include

+ \$ 300.00

= \$ 8266.00

pm following is a cost break down of expenses estimated to be incurred during the week of August 18th through 24th, 1979 for the Tombstone Exploration Company

Item	Cost	% of The Total
Salaries and Per Diem	2723.00	34.2
Militar (Tele)	600.00	7.5
Fuel & Mining Supplies	175.00	2.2
Metallurgical Chemicals	26.00	0.3
Office Supplies	10.00	0.1
Lab Equipment - Bench Barrel Testing	300.00	3.8
Leaching Operation Pipes	157.00	2.0
Office Equipment	66.00	0.8
Building Maintenance	75.00	0.9
Safety Equipment	25.00	0.3
Mining Equipment Rental	1054.00	13.2
Ppt. Plant	200.00	2.5
Office Equip Rental	50.00	0.6
Custom Assaying	535.00	6.7
Drafting Supplies	10.00	0.1
Telephone Deposit	50.00	0.6
Vehicle Rental	210.00	2.6

25th - 31st

Given following is a cost estimate of expenses expected to occur during the week of August 25th through August 31st, 1979 for the Tombstone Exploration Company

Item	Cost	% of total
Salaries and per diem	3140.00	42.6
Fuel & Mining Supplies	125.00	1.7
Office Supplies	20.00	0.3
Lab Testing Equip	50.00	0.7
Milling Equip	200.00	2.7
Mining Equip Rental	1052.00	14.3
Custom Assaying	525.00	7.1
Vehicle Rental	210.00	2.8
Lease on TDC property	1700.00	23.1
Electricity	250.00	3.4
Telephone	100.00	1.4
Total	\$ 7372.00	100.1 %

State of Arizona
Bureau of Geology and Mineral Technology

Mineral Technology Branch
University of Arizona
Tucson, Arizona 85721
(602) 626-1943



August 23, 1979

Mr. James A. Briscoe, President
Southwestern Exploration Associates
4500 East Speedway, Suite 14
Tucson, AZ 85712

RECEIVED AUG 28 1979
J. D. S.

Dear Jim:

Per your instructions by telephone, this is a request for 12 students and myself (as instructor) to visit the cyanide leaching operations at Tombstone on Saturday, October 20, 1979. The class is enrolled in Mining Engineering 231, "Solution Mining", and would truly appreciate seeing first-hand the dump leaching and precious metal precipitation operation at your property.

The University liability insurance supplies limited coverage for students on scheduled field trips outside the academic area and under the control and surveillance of a faculty member. In addition, I shall have with me a list of visitors and a signed release form for your retention.

Unless notified to the contrary, we plan to be at the plant office at 9:00 a.m. May I call you a week or so in advance to confirm the number of the tour group and the time of arrival. If I do not hear from you, I shall assume and hope that there is no problem. Thank you for your consideration.

Sincerely,

David D. Rabb
David D. Rabb
Mining Engineer

/bo

cc: W. H. Drescher

*Copy Routed to
Jew - 8/28/79*

DAY/TIMER

Time-Saver

LETTER

IN REFERENCE TO:

Escapule Associates
100 E. SPEEDWAY SUITE 117
TUCSON, ARIZONA 85712
(602) 795-4000

FIRST CLASS MAIL

INTER-OFFICE

FOR

Yes

HOW TO USE THIS

DAY/TIMER

Time-Saver

LETTER TO SAVE TIME.

Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

FOLD

9/2/77

DATE:

8/24/79

FOLD

The check to Escapule Leodene -
(7300 #1029) was returned & voided.
Do you need another?

9/2/77

Re: your subbs

Yes we should get them payment for his
plant and back hoe rental.

Few should have specific
amount

I found one copy of the
Dr. Greenbaum conversation
on your 2nd shelf within
your proposal subbs for him.
But can't find the other copy -
Are you sure you don't
have it somewhere else?

FOLD

BY

Chris

REPLY

9/2/77

DATE:

At this time I don't know Chris.

JB

BY

679

DAY/TIMER

Time-Saver

LETTER

IN REFERENCE TO:

Investment Exploration Associates
4000 E. SPEEDWAY, SUITE 14
TUCSON, ARIZONA 85712
(602) 755-6007

FIRST CLASS MAIL INTER-OFFICE

FOR

Jim

HOW TO USE THIS

DAY/TIMER

Time-Saver

LETTER TO SAVE TIME.

Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

DATE:

8/24/79

FOLD

9/2/79

*The check to Escapade Reedsie -
(7300 #1029) was returned & voided.
Do you need another?*

9/2/79

*Yes we should get them payment for his
plant and back home rental.
RE: your subles - Few should have specific
amount.*

*I found one copy of the
D. Greenbaum conversation
on your 2nd shelf within
your proposal. Attk for him.
But can't find the other copy -
Are you sure you don't
have it somewhere else?*

BY

Chris

REPLY

DATE:

9/2/79

At this time I don't know Chris.

AB

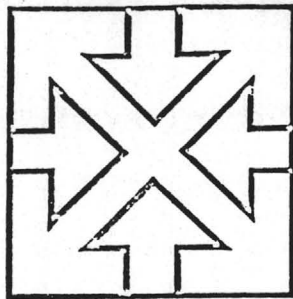
BY

678

Consultants in:

Pt 1

- base & precious metals • uranium
- coal • geothermal • environment
- remote sensing • color aerial photography
- interpretation-image processing
- Worldwide Mobilization



3-43

4500 E. Speedway, Suite 14
 Tucson, Arizona 85712
 (602) 795-6097

James A. Briscoe, President
 Registered Professional
 Geologist

REVIEWED

AUG 30 1979

By *JAB*

JAB 7:11 PM

**Southwestern
 Exploration Associates, Inc.**

August 31, 1979

Mr. Tom Schloss
 FAMCO
 1700 Broadway, 22nd Floor
 New York, N.Y. 10019

Dear Tom,

Enclosed you will find the cash disbursements for the period
 of 8/8/79 to 8/30/79, for the Tombstone Exploration-Main Account
 #955-16344.

Thank you,

Judy M. Urias

Judy M. Urias
 Asst. Bookkeeper

JMU
 P-418
 Encl.

677

TOMBSTONE EXPLORATION - MAIN ACCOUNT

Account # 955-16344

Balance forward

256.41

<u>DATE</u>	<u>PAID TO</u>	<u>PURPOSE</u>	<u>CHECK #</u>	<u>AMOUNT</u>
8/08/79	Robert Cowan (P.O. 6411)	Equipment rental	1021	2,500.00
8/08/79	Escapule Geodesic (P.O. 6335)	Equipment rental	1022	250.00
8/08/79		Deposit		5,000.00
8/08/79	Nellie Cashman	Apartment rent	1023	140.00
8/08/79	Tombstone Development Co.	Rent on 71 minerals building	1024	180.00
8/08/79	Tombstone Exploration- Salary Account	To cover payroll	1025	1,400.00
8/09/79	Charlie Escapule	Payment on vacuum pump	1026	96.00
8/14/79		Deposit		1,200.00
8/14/79	Robert Cowan	Final payment on Dozer	1027	875.00
8/14/79	State of Maine Mine Inc.	Assays and crushing	1028	500.00
8/14/79		VOID	1029	VOID
8/15/79		Deposit		6,200.00
8/15/79	Super City (P.O. 6326)	Two folding tables	1030	103.86
8/16/79	Zee Medical Supply Co. (P.O. 6318)	Supplies	1031	33.81
8/16/79	Wally Sevits Air Cond. Co. (P.O. 6317)	25 water pumps	1032	153.70
8/16/79	Hill Brothers Chemical Co. (P.O. 6316)	Two sacks Custic Soda	1033	35.78

7:11 PM
REVIEWED

AUG 30 1979

BY AB

676

<u>DATE</u>	<u>PAID TO</u>	<u>PURPOSE</u>	<u>CHECK #</u>	<u>AMOUNT</u>
8/16/79	United Fire & Safety Co. (P.O. 6315)	Supplies	1034	218.57
8/16/79	Lucky's	Supplies	1035	12.68
8/16/79	Super City (P.O. 6311)	Four Folding Chairs	1036	33.87
8/16/79	Tucson Blueprint (P.O. 3530)	Supplies	1037	48.97
8/16/79	Woolco (P.O. 6310)	12 baby bath tubs	1038	64.40
8/16/79		VOID	1039	VOID
8/16/79	Sears, Roebuck & Co. (P.O. 6307)	Supplies	1040	59.66
8/16/79	Cooper Asphalt (P.O. #6306)	25 barrels, 5 gallon tops	1041	79.50
8/21/79	Dustin Escapule	Mileage reimbursement	1042	76.90
8/21/79		Transfer into Operating Account		200.00
		Service charge		.50
8/21/79	Eldred W. Watterson	Expense reimbursement	1043	15.98
8/21/79		Transfer into Salary Acct.		1,500.00
		Service charge		.50
8/21/79	Irrigation & Sprinkler Supply (P.O. 6293)	Supplies	1044	81.81
8/21/79		VOID	1045	VOID
8/21/79	Cooper Asphalt (P.O. 6292)	Supplies	1046	53.00

7:11 PM
REVIEWED
AUG 30 1979
By *[Signature]*

675

<u>DATE</u>	<u>PAID TO</u>	<u>PURPOSE</u>	<u>CHECK #</u>	<u>AMOUNT</u>
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8/22/79	John D. Kasprowicz	Travel advance	1050	40.00
8/24/79	Circle K	Diesel fuel	1051	39.00
8/24/79	Foxworth-Killen (P.O. 4418)	Supplies	1052	495.67
8/24/79		VOID	1053	VOID
8/24/79		VOID	1054	VOID
8/24/79		VOID	1055	VOID
8/24/79		VOID	1056	VOID
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8/24/79		VOID	1059	VOID
8/24/79		VOID	1060	VOID
8/24/79	Cooper Asphalt (P.O. 4334)	Supplies	1061	53.00
8/24/79	Pioneer Paints (P.O. 4468)	Paint	1062	23.85
8/24/79	Ace Hardware (P.O. 6269)	Supplies	1063	22.02
8/30/79		VOID	1064	VOID
8/30/79		VOID	1065	VOID

7:11 PM
REVIEWED

AUG 30 1979

VOID

VOID

674

DATE	PAID TO	PURPOSE	CHECK #	AMOUNT
8/30/79		VOID	1066	VOID
8/30/79	McKesson Chemical (P.O. 5760)	Chemicals	1067	388.91
8/30/79		VOID	1068	VOID
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8/30/79	Steve Henderson (P.O. 5765)	Contract labor	1073	63.00
8/30/79	Merchandise Research (P.O. 6082)	Supplies	1074	1.59
8/30/79	Dustin Escapule	Expense reimbursement	1075	90.08
8/30/79	Eldred Watterson	Expense reimbursement	1076	13.82
		Balance		61.32

EXPENSES:

Mountain Bell phone bill	461.26
State of Maine Mining Co.	164.00
Astra Industries	161.20
Merchandise Research	204.42

Payroll (approx)	600.00
Payroll taxes (approx)	1,800.00

Total required to cover expenses	3,329.56
----------------------------------	----------

REVIEWED

AUG 30 1979

7:11 PM


673

3-42

RECEIVED AUG 31 1979

JOHN G. DEAN

401 -- 934-0060

Elmdale Road, Box 102, Route 2, North Scituate, Rhode Island 02857

Aug. 27, 1979

REVIEWED

Memo to: J. A. Briscoe, SEA; cc: DL-THS, FAMCO.

AUG 28 1979

From : J. G. Dean

By *JGD*

Subject: Data on Tranquility, Empire and Toughnut Dumps.

Dear Jim:

I have studied with interest the extensive compilation of data on the Minerals 71 Heap material which accompanied your memo of 8/22 and, in accord with your request, will give pertinent comments.

These data are potentially valuable as a guide to our project and it would seem worth developing some detail as to how they were taken. In the meantime, I will assume that they represent fire assays on samples split and ground in accord with the Richards table. It would, of course, be very helpful to be able to relate them to cyanide leach tests with a recovery factor for heap leaching.

In order to help get a rough indication of the values in the coarse and fine fractions, the following averages were calculated:

	Silver, Toz/T	
	+1½"	-¾"
Tranquility	1.21	2.13
Empire	1.37	1.27
Toughnut	1.01	2.17

These data suggest that the fine fractions from the Tranquility and Toughnut are about twice as rich in silver as the really coarse fractions, while the values are about the same throughout the screen fractions for the Empire. Heap leaching was the right approach for these lean materials and probably was profitable.

The coarse fractions from a few areas are high in values, e.g. Tranquility 40-11, Ag 6.03oz/T in the +1½" fraction, and the Empire 41-3A, 4.70 Ag in the +¾" portion. For the most part, however, they are around 1 oz/T. Crushing would liberate a portion of this, but does not appear of much economic potential at such a low level.

The success of the present effort would seem to depend on finding some good ore, perfecting a technique of mining mainly ore of economic interest, and of course guiding the operation through realistic and effective test techniques. Particle size must be considered in both sampling and leaching tests for cumulative progress, even if we have to use test heaps for conclusive results.

JGDean:bm

JGD

672

FILE

Tombston - FAMCO
File

3-41

John Dean

Confidential

4:20 - 5:43 - August

"Corp. only liable to the extent
of its assets."

T.S.

John Dean - billed for 1/2
of his time & wasn't paid.

\$ 300/day but only charging for
1/2 time - so \$150/day

Closest friend of John Dean
keeps warning J.D. about the
possibility of no pay on Tom Schloss.

Exhaustible resources - on
part of T.S.

\$ 300

To get Assay

Ratio of solution to the weight of
ore.

if 1 to 1 then ratio of
~~ore~~ solution

Richards table - pay a mention
to ~~it~~ need small crusher

U.S. DEPARTMENT OF LABOR
 MINE SAFETY AND HEALTH ADMINISTRATION
 2721 North Central Avenue, Suite 900
 Phoenix, Arizona 85004



August 27, 1979

Richard Hewlett, General Manager
 Southwestern Exploration Association
 Suite 14
 4500 East Speedway
 Tucson, Arizona 85712

REVIEWED

AUG 30 1979

By *JMB*

Dear Mr. Hewlett:

A Federal inspection was conducted of the Tombstone Heap Leach Facilities (I.D. No. 02-01521) Tombstone, Cochise County, Arizona, on the date of June 7, 1979. The inspection was made pursuant to Public Law 91-173 (83 STAT. 742) as amended by Public Law 95-164 (91 STAT. 1290).

The type and number of actions taken during the inspection were:

ORIGINAL ACTION THIS INSPECTION	TYPE AND NUMBER OF:	
	Citations	Orders
Issuances	0	0
Terminations	0	0
Modifications	0	0
Replaced by Order	0	0
Vacated	0	0
ACTIONS ON PREVIOUS VIOLATIONS		
Modifications	0	0
Extensions	0	0
Terminations	0	0
Replaced by Order	0	0
Vacated	0	0

Records of the Mine Safety and Health Administration indicated that the incidence rate of your operation as compared to the national average is:

Incidence Rate:	Fatal	Nonfatal
Industry		----
This Operation		----

Sincerely,
Robert E. Riley
 Robert E. Riley
 Subdistrict Manager

PS Form 3811, Apr. 1977

● SENDER: Complete items 1, 2, and 3.
Return address in the "RETURN TO" space on

RECEIVED AUG 27 1979

1. The following service is requested (check box)

- Show to whom and date delivered 45¢
 - Show to whom, date, and address of delivery ¢
 - RESTRICTED DELIVERY ¢
Show to whom and date delivered
 - RESTRICTED DELIVERY ¢
Show to whom, date, and address of delivery
- (CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:

John Dean /Elmdale Road
Box 230/Rural Route 2
North Scituate, RI 02857

3. ARTICLE DESCRIPTION:

REGISTERED NO.	CERTIFIED NO.	INSURED NO.
	6193103	

(Always obtain signature of addressee or agent)

I have received the article described above:

SIGNATURE Addressee Authorized agent

John Dean

4. DATE OF DELIVERY
AUG 24 79

POSTMARK

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE:

CLERK'S INITIALS

SL

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

540 file

669

State of Maine Mining Company

P. O. BOX 453
CHARLES ESCAPULE

TOMBSTONE, ARIZONA 85638

PHONE 457-3601

LOUIS ESCAPULE

August 21, 1979

Southwestern Exploration Associates
4500 E. Speedway, Suite 14
Tucson, Arizona 85712

Dear Sirs:

The following is an explanation of the method used on the Shaker Tests.

Entire sample crushed to $\frac{1}{2}$ " and quartered down to approximately 100 grams. This 100 grams pulverized to 20 mesh fine.

42 grams pulp
42 milliliters .05% cyanide solution
.05% caustic soda

Put on shaker for 30 minutes - filtered - assayed on Atomic Absorption Spectrometer.

The remaining crushed sample and pulp were returned to Southwestern Exploration Associates.

Sincerely,

Charles B. Escapule

RECEIVED AUG 25 1979

668

pt 2

3-38

p 1 of 38

DISK 00-021. Today is Thursday, August 23, 1979. Location is the Tombstone Mining District, Tombstone Hills, Cochise County, Arizona. The area is Contention Dike--71 Minerals Heap _____.

TIME: MILEAGE: DATE: 08-23-79
PROJECT NO: P-418 BY: JAB
FIELD NO: P-JAB-82-35

OFFICE NO:
STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE MINING DISTRICT
T: R: SEC:

FIELD PLOT:
COMMENTS:

This view shows Contention ore piled on the south end of the new test pad. This is the ore that was mined under the supervision of Dick Hewlett from the south end of the Contention open cut, using a scraper. The material here is represented by barrel test leach _____ and the heap measures approximately 3.5 feet deep on the north end and leveling out to approximately one foot on the south end. It is 75 feet on the west side, 65 feet on the south side, 70 feet on the east side and 50 feet on the north side. Using a tonnage factor of 18 cu. ft. per ton, this

REVIEWED
AUG 667
BY

approximates ³⁵⁴ 54 tons of material.

This material was loaded with the scraper and was, therefore, compacted. This morning, Dusty Escapule, using the Cat B6B squared off the dump, and ripped it to a depth of about a foot and a half.

DISK 00-021

TIME: 2:03 MILEAGE:

DATE: 08-23-79

PROJECT NO: P-418

BY: JAB

FIELD NO: P-JAB-82-36

OFFICE NO:

STATE: ARIZONA

COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T:

R:

SEC:

FIELD PLOT:

COMMENTS:

Looking north from the 71 Minerals Heap. This view shows the ripped surface of the dump and its approximately size.

DISK 00-021

TIME: 2:20 MILEAGE:

DATE: 08-23-79

PROJECT NO: P-418

BY: JAB

REVIEWED

AUG 30 1979

JAB 666

P 3 of 38

FIELD NO: P-JAB-83-1

OFFICE NO:

STATE: ARIZONA

COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T:

R:

SEC:

FIELD PLOT:

COMMENTS:

View of Steve Henderson's dump truck with _____ cu. yd. capacity and approximately 12 ton capacity, unloading the 6 N. 10 E. dump onto the south end of the test pad. Note the amount of load in the truck at this point. This load comprises 7 scoops of the International Harvester State of Maine payloader which comprised 1.5 cu. yds per scoop.

DISK 00-021

TIME: MILEAGE:

DATE: 08-23-79

PROJECT NO: P-418

BY: JAB

FIELD NO: P-JAB-83-2

OFFICE NO:

STATE: ARIZONA

COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T:

R:

SEC:

REVIEWED

AUG 30

By

Handwritten signature and number 665

P 4 of 38

FIELD PLOT:

COMMENTS:

The truck dumping with Al Waterson in the right hand portion of the frame, getting ready to take a sample from the load in one of our leach test buckets. The truck will be ramp loading the pad so as to avoid compaction of the dump leach material. Al Waterson ^{cal}speculates the last load at 14 tons, using 1-1/3 tons per cu. yd. which is the 71 Minerals tested tonnage factor.

DISK 00-021

TIME: 2:55 MILEAGE:

DATE: 08-23-79

PROJECT NO: P-418

BY: JAB

FIELD NO: P-JAB-83-3; P-JAB-83-4

OFFICE NO:

STATE: ARIZONA

COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T:

R:

SEC:

FIELD PLOT:

COMMENTS:

At the east side of the Contention open cut at the 6 N. 10 E. dump, looking north-northwest--Steve Henderson using the State of Maine International 5 15 front end loader to load some material onto his 12 ton truck.

REVIEWED

AUG 30 1979

By

664

P 516 38

calculations to show a load of about 14 tons in each truck load and a cycle of about 4 per hour. Considering a cost of \$25 an hour for the front end loader and \$25 an hour for the truck, it costs approximately 86 cents per ton to pick up this dump and load it onto the pad.

DISK 00-021

TIME: 2:59 MILEAGE:

DATE: 08-23-79

PROJECT NO: P-418

BY: JAB

FIELD NO: P-JAB-83-5

OFFICE NO:

STATE: ARIZONA

COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R:

SEC:

FIELD PLOT:

COMMENTS:

This view looks southeasterly, another view of the loading operations.

DISK 00-021

TIME: 5:46 MILEAGE:

DATE: 08-23-79

PROJECT NO: P-418

BY: JAB

FIELD NO: P-JAB-83-6

REVIEWED

AUG 30 1979

By [Signature] 663

P-41838

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

COMMENTS:

Part of a series of photographs documenting sample 4101 through 4107 in the Contention open cut extension back hoe cross cut trench at 40 feet north of the entrance to the Contention open cut.

This photo shows sample 4101 at _____ from left to right identified by the green cross cut sample paint marker sample 1402, which was a high grade sample taken out of fault breccia. Sample 1403 _____ feet from left to right, sampling what appears to be the central part of the Centention vein.

DISK 00-021

TIME: 5:49 MILEAGE:

DATE: 08-23-79

PROJECT NO: P-418

BY: JAB

FIELD NO: P-JAB-83-7

OFFICE NO:

STATE: ARIZONA

COUNTY: COCHISE

REVIEWED

AUG 30 1979
BY: [Signature] 662

P 70 ³⁸

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

COMMENTS:

Photo 7 is a repeat of photo 6 with a better focus on it.

DISK 00-021

TIME: 5:50 MILEAGE:

DATE: 08-23-79

PROJECT NO: P-418

BY: JAB

FIELD NO: P-JAB-83-8; GS-4104; GS-4105; GS-4106; GS-4107

OFFICE NO:

STATE: ARIZONA

COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

COMMENTS:

The Contention vein along the Contention fault. Most of this material is in Contention dike. Sample 4104 is about 2-1/2 feet. Sample 4105 is approximately 3 feet. Sample 4106 is a high grade sample taken in the area circled with green paint. Sample 4107 is about 8 feet long and samples the hanging wall of the vein system.

REVIEWED

AUG 30 1979

JAB 661

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Again, this is a backhoe cut and during cutting operation, we intersected a stope which occupied the area north of this cut where the photographer is standing, and would be the equivalent of samples 4102, 4103, 4104, and possibly 4105. There is a drift approximately 4 feet below the bag showing sample 4102 that is just barely covered with dirt. As can be seen on close examination of these photographs, the sampled area of the cross cut is only fractured, this fracturing apparently occurred after the backhoe cut was made. This suggests there is a stope beneath this area and the ground is beginning to subside into it. Of course, this indicates that the early day miners found good values in this ground and so these samples should contain significant quantities of silver and gold.

DISK 00-021

TIME: 5:53 MILEAGE:

DATE: 08-23-79

PROJECT NO: P-418

BY: JAB

FIELD NO: P-JAB-83-9, GS-4107

OFFICE NO:

STATE: ARIZONA

COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T:

R:

SEC:

FIELD PLOT:

REVIEWED
AUG 30
BY: *[Signature]* 660