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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: RIEDER

ALTERNATE NAMES:

COCHISE COUNTY MILS NUMBER: 646

LOCATION: TOWNSHIP 16 S RANGE 30 E SECTION 33 QUARTER C
LATITUDE: N 31DEG 59MIN 42SEC LONGITUDE: W 109DEG 16MIN 28SEC
TOPO MAP NAME: RUSTLER PARK - 7.5 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:

COPPER OXIDE
SILVER
GOLD LODE

BIBLIOGRAPHY:

USBM FILE 463.2/14162
ADM MR RIEDER FILE
USGS MAP I 1312, 1982

RIEDER

6/85

COCHISE COUNTY
California District
T16S R30E Sec 34 SW

MILS Index #646

USGS Rustler Park 7.5 (Included in file)

WESTERN RESOURCES CORP.

SUITE 428
ONE GREENWAY PLAZA EAST

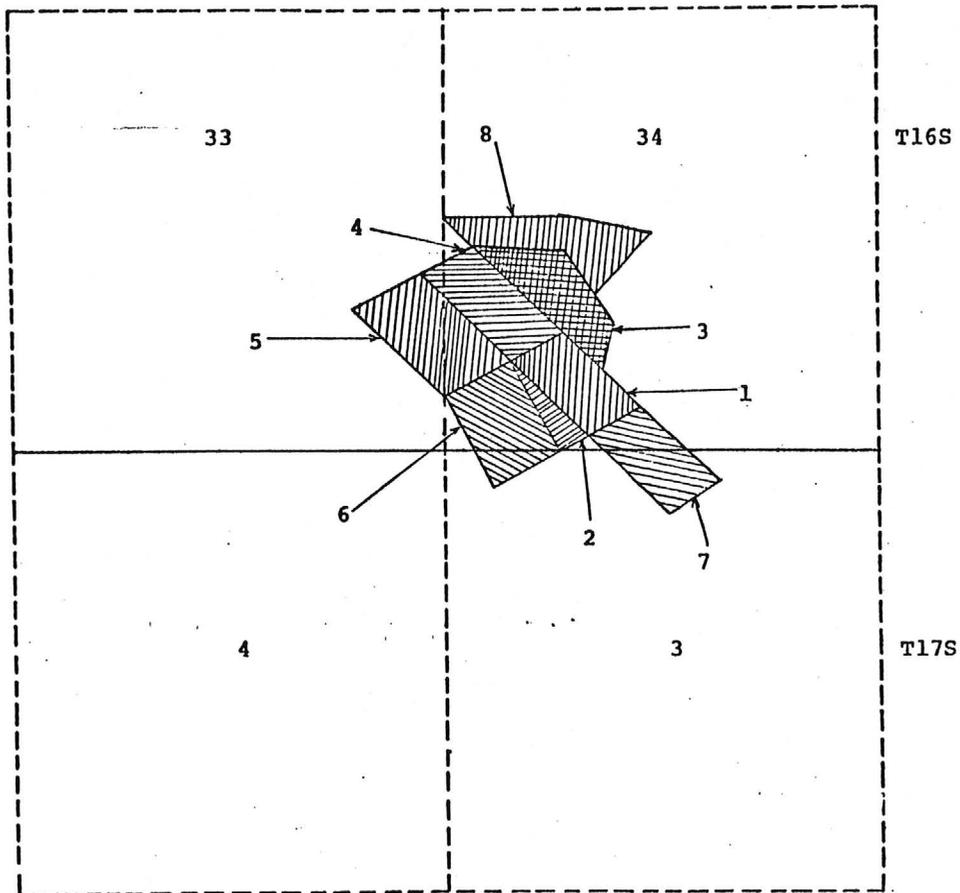
HOUSTON, TEXAS 77046
(713) 621-8550

CHIRACACUA CLAIMS

CORONADO NATIONAL FORREST

COCHISE COUNTY, ARIZONA

RANGE 30 EAST



- | | | |
|-----------------|--------------------------|------------|
| 1. COPPER CHIEF | 2. COPPER CHIEF FRACTION | 3. ALTOONA |
| 4. GARRETT | 5. NACOZARI | 6. EAGLE |
| 7. ESCONDIDA | 8. LEXINGTON | |

WESTERN RESOURCES CORP.

SUITE 428
ONE GREENWAY PLAZA EAST

HOUSTON, TEXAS 77046
(713) 621-8550

8 December, 1975

TO THE PARTNERS:

During the month of November, a part of the necessary work was done. No spectacular events occurred, and the following is a summary of the operations.

Our 30 November cash balance was \$20,274 which is adequate for our exploration program for almost three months. However, most of the equipment to start production at Chiricacua has been located, and it is time to make payment for that equipment. Therefore, a call for 10% of each Partner's commitment is required.

CHIRICACUA - LEAD, SILVER AND ZINC

Because of the long delivery times of new equipment, we have shopped for used equipment to put this property into production. Estimated cost, including working capital, is \$54,500. Our intention is to start one shift with a production goal of 25 tons of ore. As the operation develops, production will increase to 150 tons per day. At final production rates, we should be able to ship a car (55 tons) of 50% lead-silver concentrates, recovered from 305 tons of ore, each two days. We expect our principal problem will be personnel. For some reason, city boys do not like to go to a remote area and do the hard work that produces ore. If all goes well, our first production will be shipped in February.

LONE PINE - SILVER AND GOLD

The very rich "Incline Assay" mentioned in the October report continues as an interesting situation. This area is not at the main Lone Pine location, but it is on our Lone Pine Claims. The "Incline" is a very rugged area, and burro transport is the only solution to our access problem at the moment; however, we are trying to determine some way of putting this deposit into production on a small scale; although no information on amount of reserves is available. As far as timing is concerned, it might be well to allow Chiricacua to produce the necessary money for this venture.

At Lone Pine proper, drilling continues with considerable difficulties with lost circulation in the badly fractured material that must be cored.

Work of retimbering the winze at Lone Pine continues, to allow us to confirm the reports of rich ore at the 160 foot level. In this process, we cleaned the old tunnel and installed some lights. When this was done, we discovered a two foot vein of highly mineralized material. We cannot identify this mineral, and an assay will be completed in about one week. Let us hope that we have not wasted money assaying worthless material.

PICK AND SHOVEL - SILVER AND GOLD

This is a prospect located about 50 miles NE of Tucson, Arizona. We have not mentioned this prospect previously because we had no idea of its value. We moved our Acker core rig to this property because of a time restriction in our lease. The first hole has been cut, and a quartz vein carrying gold and silver was encountered just below 100 feet. Core recovery was poor because the quartz was broken, but the indications are favorable.

APACHE - BISMUTH AND COPPER

Drilling has been delayed on this prospect to allow some coring on the Pick and Shovel Group. We expect to be on this property about 1 February, 1976.

Finally, an invitation is issued to all Partners to visit the prospects; and it is suggested that a visit to Chiricacua will allow you to see a working mine.

Sincerely,
WESTERN RESOURCES CORP.,
Managing Partner

Kirby C. Gee
Kirby C. Gee
President

LONE PINE
Incline Assay

ASSAY:

Gold: 6.2 oz. per ton
Silver: 15.6 " " "

Market Value, One ton Ore:

Gold: 6.2 oz. x 90% rec. x \$135 per oz. =	\$ 753.30
Silver: 15.6 " " " " " 4	<u>56.16</u>
Total	\$ 809.46

ECONOMICS:

30 tons ore per day, 300 days per year = 9,000 tons.

Annual Income:

Gold: 50,220 oz. @ \$135 =	\$ 6,779,600
Silver: 126,360 oz. 4 =	<u>505,440</u>
Total	\$ 7,285,040
Less: Safety Factor: 1/3	<u>2,428,340</u>
Annual Income	\$ 4,856,700

Expenses:

Variable Expenses

Royalty: 12 1/2%	\$ 607,090
Sales Expense: 2 1/2%	121,420
Direct Mining Costs	
9,000 tons @ \$3.50	31,500
Milling Costs: \$2.50 per ton	22,500
Freight: 3.00 per ton	27,000
Camp operation	<u>60,000</u>

Total Variable Expenses

869,510

Variable Margin (82%)

\$ 3,987,190

Fixed Expenses:

General and Admin.	240,000
General overhead	180,000
Labor	460,000
Payroll Taxes: 25%	110,400
Depreciation: \$50,000 x 10%	5,000

Maintenance	\$ 6,000	
Taxes & Insurance	18,000	
Interest: \$50,000 x 12%	6,000	
Miscellaneous: 20% of above	<u>205,080</u>	
Total Fixed Expenses		\$ 1,230,480
EARNINGS BEFORE TAXES		\$ 2,756,710
U. S. INCOME TAXES:		
E. B. T	\$ 2,756,710	
Depletion Allowance		
\$4,856,700 x 15%	<u>728,505</u>	
U. S. Taxes: 48% x	\$ 2,028,205 =	<u>973,510</u>
NET INCOME		\$ 1,783,200

CASH FLOW

Net Income	\$ 1,783,200
Depreciation	<u>5,000</u>
Total	\$ 1,788,200

NET INCOME, % OF SALES:

\$ 1,783,200 ÷ \$ 4,856,700 = 36.7%

RETURN ON INVESTMENT

\$ 1,783,200 ÷ \$ 650,000 = 274%

BREAKEVEN SALES:

\$ 1,230,480 ÷ 81% = \$ 1,500,600
 = 31 % of Capacity
 = 10 tons per day

METALLURGY

Cyanide leach by method developed by U. S. Bureau of Mines, as used at Carlin, Nevada. Tailings will be neutralized with magnesium carbonate.

ORE HANDLING

Per attached Ore Transport Proposal.

*We talked about this
before - the any lady
come up with a
cheap solution?*

SALT RIVER CANYON - ASBESTOS

The Salt River Canyon, 35 miles North of Globe, Arizona, contains some premium grade asbestos. Associated with the mines is an asbestos mill in Globe, Arizona which has been closed because of air pollution problems. This property has been offered to us on very favorable terms, and we intend to determine if our Engineering Skills are sufficient to cure the pollution problems. If an air pollution cure can be made at some reasonable cost, we will be sure of a market for the produce of the mill before proceeding.

This venture cannot be compared to Lone Pine or Chiracacua as far as potential is concerned, but it could be a small and steady profit maker if the problems can be cured.

CHIRICAHUA

Metallurgical tests at the El Paso School of Mines indicate a flotation plant as the proper method of separating the lead and zinc minerals. We had hoped to make the separation by difference in specific gravity of the two minerals which would allow a much lower capital investment. We now face the problem of a larger capital investment for the flotation plant, or a simple concentration of all the minerals and receiving payment for the lead and silver values only. A trip is planned to the area to determine the economics of several different approaches. As soon as specific facts can be established, you will be advised.

CHIRACACUA - LEAD, ZINC AND SILVER

This prospect, in Cochise County, Arizona, about 40 miles SE of Willcox, has most of the mine development work done; and it is believed that the mine could be producing income within three months. A copy of our field notes is attached to give you a better idea of our approach to a mining problem.

Some problem of marketing zinc may exist because of the mine's location; however, the mine will make a profit if the zinc is stockpiled until production of a consumer product can be devised. The principal problem is water for the milling operation; however, the adjoining ranch has water, and we expect to purchase our needs from this source. It is also believed that the water under the ranch is on our claims.

WESTERN RESOURCES CORP.

SUITE 428
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HOUSTON, TEXAS 77048
(713) 621-8550

SUMMARY OF PROPOSED OPERATIONS

OF 17 PROSPECTS TO BE PROVEN, IT IS ASSUMED THAT ONLY
FOUR RESULT IN COMMERCIAL DEPOSITS.

IF ORE GRADES, PRICES AND COSTS REMAIN AS CALCULATED,
THE ECONOMICS WILL BE SOMETHING LIKE THE FOLLOWING:

	\$000
ANNUAL SALES (\$000)	\$16,000
VARIABLE EXPENSES	4,977
VARIABLE MARGIN: 75%	11,023
FIXED EXPENSES	5,899
EARNINGS BEFORE TAXES	5,124
U. S. INCOME TAXES*	1,234
NET INCOME	\$ 3,890
CASH FLOW	4,000
NET INCOME, % OF SALES	24%
RETURN ON INVESTMENT	87%
PAYOUT	14 MONTHS
BREAKEVEN SALES	\$ 7,840 = 49% OF CAPACITY
* INCOME TAXES ARE CALCULATED USING DEPLETION ALLOWANCE OF \$2,571,000.	
TOTAL ASSETS (\$000)	\$ 4,497
EQUITY	3,274

WESTERN RESOURCES CORP.

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INVESTMENT PROCEDURE

1. WESTERN RESOURCES GROUP
(A Limited Partnership)
 - A. The desired ownership percentage is selected.
 - B. Purchaser becomes a Limited Partner.
 - C. Payment For Interest:
 1. Amount: \$13,200 for each one (1%) percent
 2. Payment is made for 20% of purchased interest.
 3. Balance is paid at 10-15% of amount purchased as funds are needed - about six week intervals.
 - D. Partner's Option:

A Limited Partner may decline a call for additional funds without penalty, and his ownership is that amount paid for at the time. The Managing Partner may offer the unpaid balance to the other Limited Partners, or retain the interest in the Partnership as financial requirements dictate.
2. WESTERN RESOURCES CORP.
 - A. Common Stock and Promissory Note Issue:

When a value for mineral reserves can be determined, stock and notes will be issued to the Limited Partners in exchange for the assets of Western Resources Group as follows:

One Percent Interest - Cost: \$13,200	
Common Stock, \$1.00 Par Value	
13,200 Shares	\$ 2,200
Promissory Notes	
Three Year, 12%	<u>11,000</u>
TOTAL	<u>\$13,200</u>

Estimate of Shares to be issued: 1,320,000

B. Western Resources Group Royalty Pool

1. Western Resources Group are the Owners of the mineral reserves which will be transferred to Western Resources Corp. with a continuing royalty of 12.5% of Net Refinery Returns paid to Western Resources Group.
2. Western Resources Group must pay some balances incurred in the acquisition of mineral claims.

Example: Chiracacua (As described in the WRC
Progress Report of 7 Nov., 1975)

Balance Owed: \$500,000
Payments: 5% of Net Refinery Returns

3. Balance between (1) and (2) above belongs to the Limited Partners of Western Resources Group; and this amount will be paid to them, in proportion to ownership, as directed by the Partners.

WESTERN RESOURCES CORP.

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(713) 621-8550

INVESTMENT POTENTIAL

COST:

Common Stock: 13,200 Shares	\$ 2,200
Promissory Notes	<u>11,000</u>
TOTAL	\$13,200

VALUE: ?

POTENTIAL (One Year)

Common Stock Book Value	
13,200 Shares @ \$1.71	\$22,570
Promissory Notes	<u>11,000</u>
Total	\$33,570

Share Earnings:

$\$3,908,300 \div 1,320,000 \text{ Shares} = \2.96

POTENTIAL RETURNS:

WRG Royalty Pool:

Royalty paid by WRC	
\$16,018,400 x 12.5%	\$2,002,300
Royalty paid by WRG: 6%	<u>961,100</u>
Balance to Partners	\$1,041,200

1 $\frac{1}{2}$ Share: \$10,400

Promissory Note:

Principal (Tax Free Return of Capital)	\$ 11,000
Interest (Ordinary Income)	<u>3,250</u>
Total	\$ 14,250

Dividends (Ordinary Income)

If the Directors follow industry
practice, dividends might be as follows:

First Year \$ 0

Second Year: 13,200 Shares @ \$.50 6,600

Third Year: 13,200 Shares @ \$1.00 13,200

Fourth and Following Years:

13,200 Shares @ \$1.50 19,800

CHIRACAHUA

Cochise County, Arizona

Location: Sections 33 & 34, Township 16 S, Range 30 E
Sections 3 & 4, Township 17 S, Range 30 E
Gila Salt River Meridian, Arizona

Eight Claims (160 Acres)

Copper Chief, Copper Chief Fraction, Altoona, Garrett,
Nacozari, Eagle, Escudida, Lexington.

Average Assay:

Lead: 10% = 200 lbs. per short ton.

Zinc: 10% = 200 lbs. per ton.

Silver: 6 ounces per ton.

Market Value of Contained Metals: (11-7-75)

Lead: 200 lbs. @ 20¢ per lb. \$ 40.00

Zinc: 200 lbs. @ 38 1/2 ¢ per lb. 77.00

Silver: 6 ozs. @ \$4.41 per oz. 26.46

Total Value, per ton ore \$ 143.46

Procedure:

Mine development work has been completed, and mining can start as soon as equipment can be purchased and put into place. Equipment location and delivery should be completed by 25 January.

To reduce freight costs and make the ore more acceptable to the custom smelter, the ore will be crushed and the limestone removed by a concentrating process using the difference in specific gravity between limestone and the metallic minerals we expect to market. This process requires water, and it is believed that water can be purchased from the adjoining ranch.

Initial production is expected to be 25 tons of ore, working one 8 hour shift per day. The next step will be addition of two more shifts to produce 75 tons per day; and finally, working an adjacent vein to produce 150 tons per day, 330 days per year, or an annual production of 49,500 tons.

Dear Paul - Please look all this over and give me a call collect! I would like to have this back with though. I can take a 5% of this but don't think I want that big a chunk!! Please come for you if your interested!

MINERAL RESERVES

It is believed that the area contains more than 500,000 tons of reserves; however, the country is so rugged that we cannot get our coredrilling equipment into place to verify reserve estimates. Because of some uncertainty in amount of reserves, initial production is scheduled at 25 tons per day to allow some underground exploration. This conservative approach will allow us a return of our initial investment plus 100% if only 5,000 tons of reserves exist.

In order to reach some economic decisions, the value of the reserves must be known. This is a very difficult problem, and the usual procedure is as follows:

Market Value of Contained Metals:

$$500,000 \text{ tons} \times \$143.46 = \$71,730,000$$

Some fraction of market value, usually 10%, is used to place a value of \$7 million on the reserves.

A more conservative and more meaningful figure is obtained by the Return on Investment Method as follows:

Assume that we require an annual return of 50%.

Value of Reserves:

$$\text{Annual Net Income: } \$1,684,600 \times 2 = \$3,373,200$$

$$\text{Less: Capital Investment} \quad \underline{281,300}$$

$$\text{Value of Reserves} \quad \quad \quad \$3,092,900$$

We usually discount the above by 40% to give \$2.3 million

CAPITAL INVESTMENT

Equipment has been sized to produce 25 tons of ore per eight hour shift. If the underground exploration work goes as expected, two additional shifts will be added. Finally, two levels may be worked to produce 150 tons of ore per day. Only the initial capital investment should concern us because mine profits will produce the additional funds needed. If the necessary profits are not forthcoming, the mine is no good and the Managing Partner should be kicked in the mouth!

The Capital Investment Table follows:

EQUIPMENT	25 TONS DAY	75 TONS DAY	150 TONS DAY
Camp Facilities	\$ 5,600	\$ 4,500	\$ 10,000
Diesel Electric Plant	0	0	35,000
Air Compressor	4,250	0	8,500
Mining Equipment	8,500	2,500	11,000
Jaw Crusher	5,250	0	5,250
Hammermill	3,800	0	3,800
Mineral Jig	2,500	0	2,500
2 Mineral Tables	3,000	0	3,000
Water Pump & Pipe	0	0	3,500
Automotive Equipment	4,800	9,600	15,000
Miscellaneous	<u>3,000</u>	<u>1,500</u>	<u>5,000</u>
EQUIPMENT TOTALS	\$ 40,700	\$ 18,100	\$ 102,500
WORKING CAPITAL	<u>15,000</u>	<u>45,000</u>	<u>60,000</u>
TOTAL CAPITAL INVESTMENT	\$ 55,700	\$ 63,100	\$ 162,500

Thus, we will have an initial capital investment of \$55,700 to start production and a total capital investment of \$281,300 when production reaches 150 tons of ore per day.

ECONOMICS:

We intend to sell ore concentrates to a custom smelter until we can be more certain of reserves. Ultimately, we would expect to refine the metals as near the mine as facilities are available. This processing will allow production of a consumer product, such as zinc sulphate, and produce an added manufacturing profit.

PROFORMA BALANCE SHEET

The Statement is made using the capital investment for 150 tons per day production and using Partnership funds.

PROFORMA OPERATING STATEMENT

Since metals prices vary and prediction of future costs is difficult, a safety factor of one-third has been used to calculate income.

Mining costs were taken from past experience, adjusted for inflation and applied to the Chiracacua Area.

PROFORMA BALANCE SHEET
Chiracocua

ASSETS

CURRENT ASSETS

\$ 120,000

FIXED ASSETS

Plant and Equipment 261,300

Mining Properties 2,355,000

TOTAL FIXED ASSETS

2,616,300

TOTAL ASSETS

\$ 2,736,300

LIABILITIES

LONG TERM DEBT

3 year, 12% Promissory Notes

\$ 234,170

EQUITY

2,502,130

TOTAL LIABILITIES AND CAPITAL

\$ 2,736,300

PROFORMA OPERATING STATEMENT

ANNUAL INCOME

Lead: 49,500 tons x 10% x 90% recovery		
= 8,910,000 lbs. @ 20¢ per lb. =	\$	1,782,000
Zinc: 49,500 tons x 10% x 90% rec.		
8,910,000 lbs. @ 38 1/2¢ =		3,430,350
Silver: 49,500 tons x 6 oz/ton x 90% rec.		
267,300 oz. @ \$4.41 =		<u>1,178,790</u>
Total	\$	<u>6,391,140</u>
Less: Safety Factor: 1/3		<u>2,130,380</u>
TOTAL ANNUAL INCOME	\$	<u>4,260,760</u>

EXPENSES:

VARIABLE EXPENSES:

Royalty: 5% of sales	\$	213,040
Sales Expense: 2.5% of sales		106,520
Direct Mining Costs:		
49,500 tons @ \$3.50 per ton		1,73,250
Milling Costs: 49,500 tons @ \$2.50		123,750
Freight: 9,000 tons @ \$13.00		117,000
Comp operation		<u>72,000</u>

TOTAL VARIABLE EXPENSES

805,560

VARIABLE MARGIN (80%)

\$ 3,455,200

FIXED EXPENSES:

General and Administrative	420,000
General Overhead	240,000
Depreciation (10yr. SL)	28,130
Maintenance	16,880
Taxes and Insurance	46,400
Interest: \$234,170 x 12%	28,100
Miscellaneous: 20% of above	<u>155,900</u>

TOTAL FIXED EXPENSES

935,410

EARNINGS BEFORE TAXES

\$ 2,519,790

U. S. INCOME TAXES:

Earnings Before Taxes	\$	2,519,790
Depletion Allowance:		
23% x \$3,408,600 (mine value)		<u>784,000</u>
Income Taxes: 48% x \$1,735,790 =		<u>833,190</u>

NET INCOME

\$ 1,686,600

PAGE NO. 1
 SERIAL NO. 76-6-1
 LAB. TEST. NO. 411
 MILL TEST. NO. _____
 DATE 12-13-74
 MADE BY H.P.E.

ORE TREATMENT TEST REPORT

UNIT WESTERN RESOURCES CORP.
 PROCESS DIFFERENTIAL FLOTATION
 ORE TREATED RRF - ARIZONA - PROJECT

METALLURGICAL RESULTS

METRIC WEIGHTS AND ASSAYS

PRODUCT	DRY WEIGHTS		ASSAYS								RECOVERIES					RATIO OF CONCENTRATION		
	GRS	% TOTAL	GRAMS		PERCENT						PERCENT OF FEED CONTENT THUS REPRESENTED							
			AU	AG	CU	PB	ZN	FE	INSOL	AU	AG	CU	PB	ZN				
FEED	1000	100.0	2.18	257.2	0.71	7.96	3.60	2.50										
PB ROUGHER	61	6.1	34.5	370.0	7.85	45.36	5.90	8.40	4.30									16.1-1.0
ZN ROUGHER	75	7.5	0.5	736.3	0.17	0.95	38.88	3.15	5.20									13.3-1.0
TAILS	864	86.4	7.1	15.0	0.02	0.14	0.38											

**FLOTATIONS REAGENTS
POUNDS PER TON CRUDE ORE**

<u>BALL MILL</u>	
LIME	1.35
NACN	0.10
ZNSO ₄	0.40
HERO 31/ SODIUMS 124	0.87
Z-3 XANTHATE	0.16
<u>LEAD CIRCUIT</u>	
Z-3 XANTHATE	0.05
M.L.A.C.	0.05
<u>ZINC CIRCUIT</u>	
CU SO ₄	1.15
Z-3 XANTHATE	0.15
LIME	2.05
CRESTUR ACID	0.06

GRINDING

Dry To	8	Mesh
Wet To	6.15	% + 65 Mesh
Wet To	9.75	% - 200 Mesh
TIME IN FLOTATION MIN		
CIRCUIT	MIN	
LEAD	14	
ZINC	20	
CIRCUIT	REL. VAL.	OF
LEAD	7.9	56°
ZINC	10.8	90°

SCREEN ANALYSIS OF PRODUCTS

PRODUCT	MESH						
	+49	+65	+100	+150	+200	-200	-325
PB CONCT	0.0	4.7	8.3	31.4	44.5	11.6	
ZN CONCT	0.0	0.5	7.3	13.4	48.2	30.6	
TAILS	4.3	16.5	16.9	21.2	18.7	27.2	

FINANCIAL U. S. CURRENCY

PRODUCT	NET SMELTER VALUE PER TON	
	CONCENTRATE	CRUDE ORE

REMARKS:

APPROVED BY H.P.E.

PAGE NO. 2
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 MET. TEST. NO. _____
 DATE 12-16-75
 MADE BY H.P.E.

ORE TREATMENT TEST REPORT

UNIT WESTERN RESOURCES CORP.
 PROCESS ROUGHER CLEANING
 ORE TREATED Pb CONCENTRATE FROM TEST 1

METRIC WEIGHTS AND ASSAYS

METALLURGICAL RESULTS

PRODUCT	DRY WEIGHTS		ASSAYS							RECOVERIES					RATIO OF CONCENTRATION
	GMS	% TOTAL	GRAMS		PERCENT					PERCENT OF FEED CONTENT THUS REPRESENTED					
			AG	AC	CU	PB	ZN	FE	EURO	100	100	100	100	100	
FEED	61	100.0	32.5	3705.0	2.88	45.4	5.9	8.4	4.3						
CLEANER CONC.	48	78.7	41.6	478.1	3.17	67.2	7.5	7.9	1.0						
CLEANER TAILS	13	21.3	11.8	39.6	0.71	21.4	17.3	9.5	7.2						

FLOTATIONS REAGENTS
 POUNDS PER TON CRUDE ORE

CONDITIONER	
KACN	.05
ZNSO4	.18
2-3 XANTHATE	.03
17.E.B.C.	.03

GRINDING

Dry To	X	Mesh
Wet To	K	% + 65 Mesh
Wet To	Y	% - 200 Mesh

TIME IN FLOTATION MIN

CIRCUIT	MIN.
FLOTATION	8

CIRCUIT	PH. VAL.	OF
CLEANING	8.1	V6°

SCREEN ANALYSIS OF PRODUCTS

PRODUCT	MESH						
	+48	+65	+100	+150	+200	-200	-300

FINANCIAL U. S. CURRENCY

PRODUCT	NET SMELTER VALUE PER TON	
	CONCENTRATE	CRUDE ORE

REMARKS:

APPROVED BY H. P. E.

PAGE No. 3
 SERIAL No. 75-G-1
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ORE TREATMENT TEST REPORT

UNIT WESTERN RESOURCES CORP.
 PROCESS ROUGHER CLEANING
 ORE TREATED Zn CONCENTRATE FROM TEST 1

METALLURGICAL RESULTS

METRIC WEIGHTS AND ASSAYS

PRODUCT	DRY WEIGHTS		ASSAYS								RECOVERIES					RATIO OF CONCENTRATION		
	GRs	% TOTAL	GRAMS		PERCENT						PERCENT OF FEED CONTENT THUS REPRESENTED							
			AG	AC	CU	PB	ZN	FE	Zn/Fe									
FEED	75	100.0	0.05	336.3	0.17	0.95	38.8	3.15	5.7									
Zn CLEANER COND.	87	49.3	0.07	316.2	0.71	1.55	62.4	7.10	1.5									
TAILS	38	50.7	0.03	10.4	0.05	0.50	8.7	9.5	11.6									

FLOTATIONS REAGENTS
 POUNDS PER TON CRUDE ORE

<u>CONDITIONER</u>	
LIME	3.15
CaSO ₄	0.25
Na ₂ S ₂ O ₃	0.15
<u>FLOTATION</u>	
Z.3 XANTHATE	0.03
M.F.B.C.	0.06

GRINDING

Dry To	Mash
Wet To	% + 65 Mesh
Wet To	% - 200 Mesh
TIME IN FLOTATION MIN	
CIRCUIT	MIN
CONDITIONING	70
FLOTATION	18
CIRCUIT PH. VAL. OF	
CLEANER	11.5 95.0

SCREEN ANALYSIS OF PRODUCTS

PRODUCT	MESH						
	+48	+65	+100	+150	+200	-200	-300

FINANCIAL U. S. CURRENCY

PRODUCT	NET SMELTER VALUE PER TON	
	CONCENTRATE	CRUDE ORE

REMARKS:

APPROVED BY [Signature]

1

WESTERN RESOURCES ORE

1. SPECTROGRAPHIC (Qualitative)

Ag	Silver	++++
Au	Gold	++
Ca	Calcium	+++++++
Cd	Cadmium	+
Cu	Copper	+++
Fe	Iron	++++
Ge	Germanium	tr
Mg	Magnesium	+++++
Mn	Manganese	tr
O	Oxygen	++
Pb	Lead	--too high--
Si	Silicon	--too high--
S	Sulfur	--too high--
Va	Vanadium	++
Zn	Zinc	--too high--

2. MINERAL CLASSIFICATION (Optical)

Argentite	Ag_2S
Andradite	$Ca_3Fe_2(SiO_4)_3$
Grossuralite	$Ca_aAl_2(SiO_4)_3$
Wollastonite	$CaSiO_3$
Silica	SiO_2
Galena	PbS
Chalcopyrite	$CuFeS_2$
Sphalerite	ZnS

3. CHEMICAL & FIRE ANALYSES:

<u>ELEMENT</u>	<u># 1</u>	<u># 2</u>
Gold	0.07oz/T	
Silver	8.27oz/T	
Copper	0.21 %	0.24 %
Lead	2.96 %	3.05 %
Zinc	3.60 %	4.05 %

Cochise Arizona
County State

Property Name: Rieder

Owner: Name Address

Ulrich Rieder Hilltop, Ariz. 7/1944

Operator:

None 7/1944

Production:

Total none From to 7/1944
Present Rate per Date

Source of Information:

Status

Date

USBM Report: File No. ^{463.2} 402/14162

Engineer: Chas. A. Kumke

Inactive 7/1944

Classification: Prospect

(See other side for general information)

c/sv

Chief Mineral copper No. Cu 16
Accessory Minerals silver gold

Location: 26 mi. from San Simon, Ariz.

For details see Exam File ^{463.2} 402/14162

Date

Property adjoins Sullivan to SE

Car 16

General Information: 7/1944

In a rhyolite-limestone contact meager copper-silver mineralization shows 2 places. A 60' shaft was sunk and some drifting was done at 1 place, & work of a similar nature done at the other; neither developed shipping ore. 2 grab samples from sorted ore gave, first, 11.85% Cu 11.05 Ag & 0.01 Au, second sample, 4.80% Cu tr. of Ag & Au. No work has been done on the claims for 12 yrs.



Character of Ore:

Low grade oxidized copper-silver ore.

Equipment (Date 7/1944):

None

Leon Siegel, B.S., M.S., P.E.
Manager

2310 Alameda Ave.
Phone 544-7148
Area Code 915

EL PASO CHEMICAL LABORATORIES

Chemical, Environmental Testing
Spectrographic-Atomic Absorption
Assaying

P. O. BOX 1565
El Paso, Texas 79948
CERTIFICATE OF ANALYSIS

Lab. No. 75-12-33

TO Prof. H.P. Ehrlinger

2821 N. Kansas St

El Paso, Texas 79902

1 Sample of pulped ore Received 12/10/75

Marked GEE M-71

RESULTS

Gold (Au)	0.07 oz./ton
Silver (Ag)	8.27 oz./ton
Copper (Cu)	0.21 %
Lead (Pb)	2.96 %
Zinc (Zn)	3.60 %

Respectfully submitted,

Leon Siegel

RIEDER

COCHISE COUNTY

MG WR 6/14/85: Goldie & Lee Rice, P O Box 245, Oracle, Az. 85623, phone 896-2565, own the Rieder mine in the SW $\frac{1}{4}$, Sec 34, T16S R30E, California mining district of Cochise County. Mr. & Mrs. Rice shipped ore from the mine several years ago. I have asked them for mine data.
