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Arizona Department of Mines and Mineral Resources Mining Collection

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PRINTED: 10/18/2001

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: JUPITER MINE

ALTERNATE NAMES:
OCTOPUS MINE
MILDRED PEAK PROPERTY
MARUM RESOURCES PROPERTY

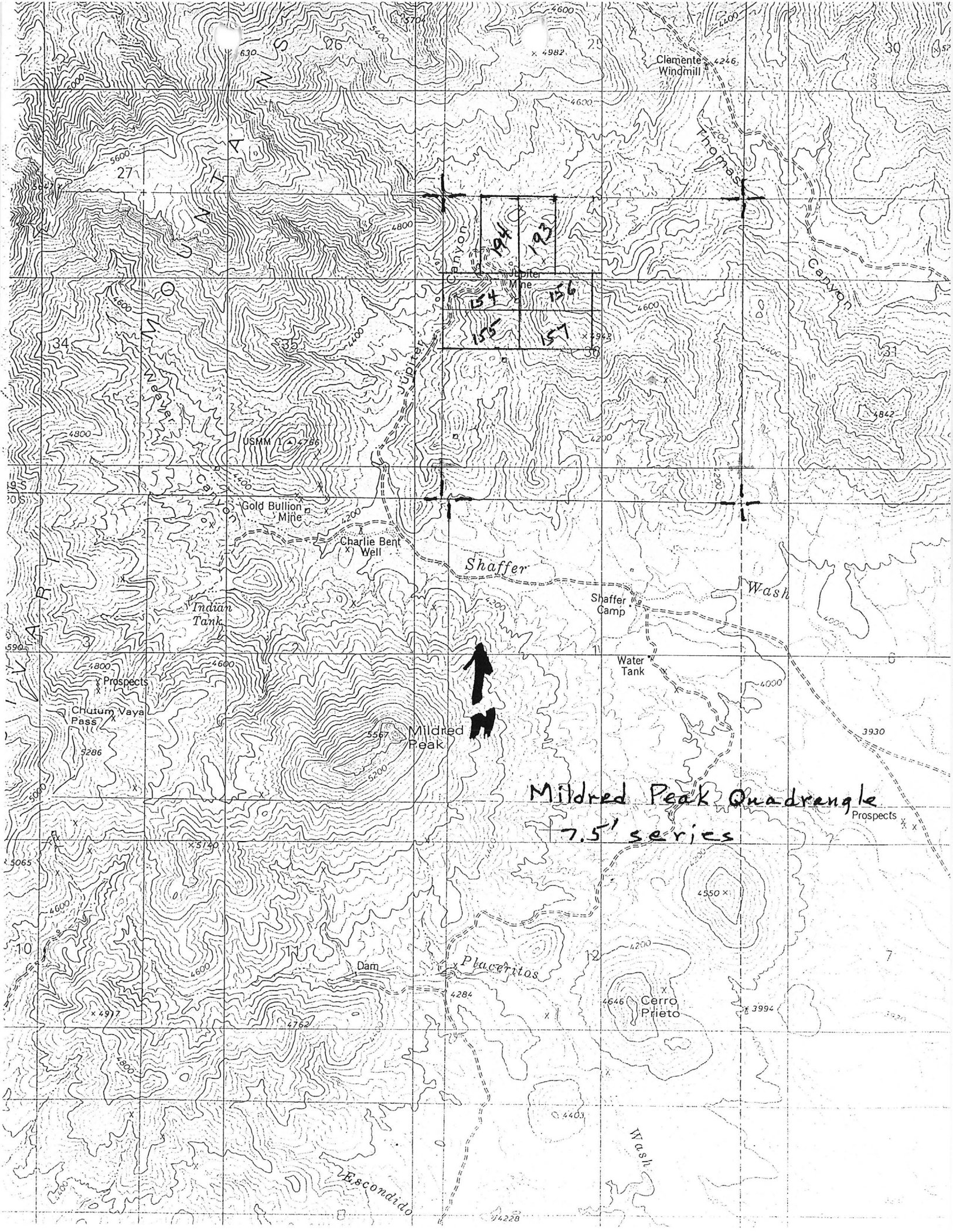
PIMA COUNTY MILS NUMBER: 69

LOCATION: TOWNSHIP 19 S RANGE 7 E SECTION 36 QUARTER NW
LATITUDE: N 31DEG 44MIN 05SEC LONGITUDE: W 111DEG 35MIN 13SEC
TOPO MAP NAME: MILDRED PEAK - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:
GOLD LODE
SILVER
LEAD
COPPER

BIBLIOGRAPHY:
S.B. KEITH, AZBM BULL. 189, P. 109, 1974
ADMMR JUPITER MINE FILE
10 MAPS IN ROLLED MAP COLLECTION


Clemente Windmill
Thomas Canyon
Jupiter Canyon
Jupiter Mine
194
193
154
156
155
157
Weaver Canyon
USMM
Gold Bullion Mine
Charlie Bent Well
Shaffer Wash
Shaffer Camp
Indian Tank
Water Tank
Prospects
Chutum Vaya Pass
Mildred Peak
Mildred Peak Quadrangle
7.5' series
Prospects
Dam
Placeritos
Cerro Prieto
Escondido Wash

PHOENIX
Sun City
Surprise
Youngtown
Peoria
Paradise Valley
Fountain Hills
Ft. McDowell
Glendale
Scottsdale
Tolleson
Tempe
Mesa
Litchfield Park
Tonopah
Perryville
Goodyear
Buckeye
Cashion
Avondale
Hassayampa
Guadalupe
Laveen
Chandler
Gilbert
Apache Jct.
Arlington
Palo Verde
Allenville
Liberty
St. Johns Mission
Rainbow Valley
Higley
Boys Ranch
Queen Creek
Chandler Heights
Florence Jct.
Superior
Miami
Claypool
Inspiration
Tortilla Flat
Saguaro Lake
Canyon Lake
Apache Lake
Firebird Lake
Ocotillo
Bapchule
Olberg
Sacaton
Mobile
Maricopa
Ak-Chin
Coolidge
Florence
Valley Farms
Kelvin
Riverside
Christmas
Kearney
Hayden
Winkelman
Paloma
Gila Bend
Stanfield
Francisco Grande
Casa Grande
Randolph
La Palma
Eleven Mile Corner
Eloy
Picacho
Picacho Res.
Cactus Forest
Chuichu
Arizona City
Cuckelbur
Jackrabbit
Kohatk
Friendly Corner
Red Rock
Oracle Jct.
Kaka
North Komelik
Ventana
Childs
Ajo
Saguaro
Marana
Catalina
Silver Bell
Rillito
Oro Valley
Cortaro
Hickiwan
San Louis
Anegam
Vaya Chin
Palo Verde Stand
Santa Rosa
Ak Chin
Why
Charco 27
PAPAGO
INDIAN
RESERVATION
Queens Well
TUCSON
Gunsight
Tracy
Covered Wells
Sil Nakya
Quijotoa
Sikul Himatle
Chot Vaya
Santa Rosa Ranch
South Tucson
San Luis
Cababi
Comobabi
San Pedro
Three Points (Robles Jct.)
Gu Vo
Pisinimo
Kui Tatk
Kaihon Kug
Lincon
Nolia
Haivana Nakya
Santa Cruz
Vainom Kug
Fresnal
Pan Tak
San Xavier
Sahuarita
Pia Oik
Kupk
Big Field
Little Tucson
Green Valley
Lukeville
Sonoita
Sells
Artesa
Kots Kug
Menegers Dam
Cowlic
Topawa
Continental
Papago Farms
Fresnal Canyon
South Komelik
Vamori
Arivaca Jct.
Madera Canyon
Amado
Coldfield
Itak
Choulic
Ak Chut Voya
San Miguel
Newfield
Arivaca
Arivaca Lake
Tubac
Carmen
Tumacacori
Sasabe
Ruby
Oro Blanco
Pena Blanca Lake
Nogales
ORGAN PIPE CACTUS NATL. MONUMENT
Kitt Peak 6,875
KITT PEAK NATL. OBSERVATORY 10:00 AM 4:00 PM
Baboquivari Peak 7,730
Keystone Peak 6,206
BORDER CLOSED 12:00 PM TO 8:00 AM
NOTICE: MAKE LOCAL INQUIRY OF ROAD CONDITIONS IN THIS AREA. MANY ROADS ARE NOT PASSABLE FOLLOWING SEVERE WEATHER CONDITIONS.
ENJOY OUR FRIENDLY
EIGHBORS IN SONORA, MEXICO
FOR BRIEF TRIPS INTO BORDER
UNITIES, NO TRAVEL PERMITS ARE REQUIRED
TENDED TRIPS BEYOND THE BORDER, CONSULT
R NEAREST MEXICAN TOURIST AGENCY OR
MEXICAN CONSULATE FOR DETAILED
INFORMATION AND HELPFUL
TRAVEL HINTS.

JUPITER MINE

Octopus Mine

PIMA COUNTY

T19S, R7E, Sec36

ABM Bull. 137 p. 181

10 maps in brown map cabinet (rolled ALPHA cabinet)

*

STATEMENT concerning the

JUPITER MINE

Baboquivari Mining District
Pima County, Arizona

By Elgin Bryce Holt.

- - - - - - - - - - 0 - - - - - - - - - -

TO WHOM IT MAY CONCERN:-

During the month of March, 1936, while engaged in a reconnaissance of the mines of Pima County, Arizona, for the State Land Department, I inspected the Jupiter Mine, located in the Baboquivari Mountains, about sixty miles, over an excellent auto road, from Tucson, Arizona.

The following covers briefly results of my rather hurried investigation of the above property:

A detailed sampling of the two principal ore shoots in the mine, though advisable at the present time, was not attempted by me, being outside the scope and instructions of my investigations. However, the assays and other data quoted herein, were obtained from reliable sources and I am confident the same can be relied on in every respect.

DESCRIPTION OF PROPERTY:

The Jupiter group of mining claims cover the NW¼ of Section 36, Township 19 South, Range 7 East. Title to property is held by State of Arizona and the same has recently been leased by State to Mr. O. C. Lamp of Tucson, Arizona. Mr. Lamp, however, has been interested in the property for some time in the past and has milled considerable ore from the same.

Adequate water supply for camp and milling purposes

is assured from shallow wells in adjacent canyons; also from deeper development of ore bodies in the mine.

The climate is ideal the year round, inasmuch as elevation of property above sea level is about 4,500 feet.

Working conditions generally are good. The ore occurs in massive chimneys or shoots of easily mined material by shrinkage stope methods; and the ore lends itself to simple flotation and table concentration yielding a high grade clean concentrate.

During what might be termed the test milling operations of Mr. O. C. Lamp, who owns a small but well constructed concentration mill near the property, net recovery of gold and silver values averaged $8.00 per ton of ore treated, with a ratio of 16 tons of raw ore to one ton of concentrates, the value of which will be found in the table on following page:

LIST OF SHIPMENTS OF CONCENTRATES AND ORE FROM JUPITER MINE.

Date	sold to	Gold		Silver		Lead	Copper	Value	Tons	Total	Deduct.	Net
		ozs	$	ozs	$	$	$	$		$	$	$
12/20/33	Miller	3.02	58.90	50.0	19.72	3.65	0.41	82.68	4.95	409.26	108.25	301.01
3/2/34	A.S.&R.Co	2.54	50.80	43.5	18.57	2.11	0.00	71.48	4.309	308.00	78.13	229.87
10/5/35	T.O.B.Co.	1.62	52.03	22.0	15.24	0.00	0.00	67.27	3.28	220.64	55.47	165.17
10/19/35	T.O.B.Co	2.42	77.73	43.5	30.14	0.00	1.46	109.33	2.64	288.63	46.42	242.21
12/5/35	T.O.B.Co.	2.37	76.12	34.9	24.19	0.00	0.00	100.31	6.63	665.05	107.57	557.48
12/17/35	T.O.B.Co.	3.07	98.61	45.7	31.67	0.00	0.00	130.28	6.10	794.71	114.82	679.89
12/23/35	T.O.B.Co.	2.75	88.33	43.5	31.18	0.00	0.00	119.50	4.40	525.80	79.02	446.78
	T.O.B.Co.	0.34	10.92	7.2	4.99	0.00	0.00	15.91	8.36	133.00	59.92	73.08
												$2695.49

NOTE: The first seven shipments above were concentrates and the last shipment was ore.

HISTORY:

Property was discovered by Charles Bent and Edward Hudson during 1879. Owners erected a stamp mill on mine during 1889 and milled about 2,000 tons of ore, said to have averaged about $12.00 per ton in gold and silver. A little later the mill burned down.

During 1931, Lew Kemp spent about $150,000.00 on property carrying out 600 feet of poorly directed development work and the erection of a 25-ton concentrating plant. He failed and mill was sold.

During 1935, the Shattuck-Denn Company did a small amount of work in upper levels of mine; but accomplished nothing of importance whatever.

Magma Copper Company took over the property during 1935 and did about 2,500 feet of work in lower level of mine; but as they failed to find sufficient ore for their requirements, this company suspended operations about September, 1935.

The property then passed into the hands of O.C. Lamp, as stated above, who made several test runs on the ore in a mill located down the canyon a half mile from property.

ORE BODIES:

Two ore shoots have been opened in upper level of mine; one of these being in the nature of a chimney about 50 feet in diameter, on which was sunk years ago a winze about 90 feet deep in excellent milling ore. On the same level another ore shoot was found, in a cross-cut driven Southward; said shoot being 75 feet in length by 12 feet wide. Mr. Lamp has informed me that he mined and milled about 300 tons of ore from the latter shoot with a mill head value of $8.00 per ton, as stated. He also shipped 8.36 tons of ore from the same shoot, averaging $15.91 per ton in gold and silver. (See above table.)

The lower tunnel of mine, which has an elevation of 200 feet deeper than the said upper level, was extended

by the Magma Copper Company for around 1200 feet from tunnel portal. (See underground mine map attached hereto.) From this tunnel, the Magma Company drove a number of cross-cuts Southward; but failed to find the ore shoots coming down from the upper level mentioned. It is my positive opinion and belief that this failure was due to the fact that the Magma engineers did not correctly take into consideration the dips and probable rakes of the two ore shoots mentioned, found in upper level of mine. Again, by all means, they should have sunk on the said ore shoots in upper level in order to determine their inclinations and importance instead of hunting for the same, as they did, by means of cross-cutting from the said lower tunnel.

All in all, notwithstanding the fact that the Magma Company failed to find ore in the lower level, I believe the property has all the ear-marks of an important mine; and one that can be put on a profit-earning basis if properly financed, developed, equipped and managed.

TOPOGRAPHY and GEOLOGY:

In the area surrounding the Jupiter Mine the gold-silver quartz veins occur along ridges near the Eastern base of the Baboquivari range. Prevailing rocks in this region consist of unmetamorphosed Cretaceous shales, quartzites, conglomerates, gneiss and granite, greatly disturbed and complexly faulted and intruded by huge dikes of diorite porphyry.

VEINS occur within fault fissures, which strike in various directions and dip from 75 degrees from horizontal to nearly vertical. Their filling consists of white quartz and calcite, together with bunches of chalcopyrite, iron pyrite and small amounts of galena, carrying gold and silver values.

The region is very rough and is cut by numerous canyons.

I recommend the property to anyone looking for a partly developed gold and silver mine. Furthermore, I believe the mine could be put on a paying basis with an expenditure of $50,000, to be used, first, for developing additional ore tonnage in the mine, and, second, with which

to remodel the mill referred to, belonging to Mr. Lamp, into an up-to-date flotation plant with a capacity of at least 75 tons of ore per day of 24 hours.

Very sincerely yours,

ELGIN BRYCE HOLT,

Mining Engineer.

Heidel Hotel,
Tucson, Arizona,
June 25, 1936.

*

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
MINE OWNER'S REPORT

Date February 15, 1941

1. Mine Jupiter
2. Location Sec. 36, Twp. 18S-R 7E (?)
3. Mining District & County Baboquivari
4. Former name Octopus
5. Owner State of Arizona (Land Dept.)
6. Address (Owner) State Office Bldg. Phoenix
7. Operator Not known
8. Address (Operator)
9. President, Owning Co. No Corp.
9A. President, Operating Co.
10. Gen. Mgr.
14. Principal Minerals Gold, Silver
11. Mine Supt.
15. Production Rate Not established
12. Mill Supt.
16. Mill: Type & Cap.
13. Men Employed
17. Power: Amt. & Type Chicago Pneumatic - Direct Con. Compressor-3 drills
18. Operations: Present Idle
19. Operations: Planned
20. Number Claims, Title, etc. Eight--Taken by legal sub-divisions.
21. Description: Topography & Geography Near center of second ridge east of Baboquivari mts. 2 miles from Peaks.
22. Mine Workings: Amt. & Condition Original workings 4 tunnels--Lower-50 ft. Second 230 ft. 3rd. 80 ft., Upper 50 ft. Maybe all lower tunnel--1200 ft. Many drifts and cross-cuts. Approx. 3000 ft. of development. Upper workings bad shape.

23. Geology & Mineralization

Country rock. Andesite with Phyolite dike cutting thru, which is the ore zone. Width of upper ore--No. 2 tunnel--12 ft. Rept'd $12.00 ton. #3 tunnel had 3 oz au per ton in places.

24. Ore: Positive & Probable, Ore Dumps, Tailings

Face #4-Tun. Vau. 2. oz gold & silver. No. 2 tunnel has most ore. Probably no ore blocked. The 3 upper dumps had milling grade ore.

24A. Dimensions and Value of Ore body

25. Mine, Mill Equipment & Flow-Sheet

None left.

26. Road Conditions, Route

Paved highway to Robles ranch 25 miles-graded highway to Road Camp (on Sasaba road, 30 miles) Improved road to Ronstadl's Ranch 4 mi. Improved road to mine 3 miles.

27. Water Supply

Dam at tunnel gave water for camp use. Used for Kemp Mill.

28. Brief History

Originally located by Chas. Beut Sr. as Octopus . Drove #2 tunnel 130 ft., This was in the 90's. Located about 1926 by L. P. Merriman-Etal. Leased to Alfred L. Kemp--Canadian, who built 25 ton mill and make flake. Then leased to C. S. Flynn who did small amt. of development and turned lease and bond to Magma Copper Co. in 1933. Magma developed thru

29. Special Problems, Reports Filed

thru lower tunnel after buying out owner and lessee. Dropped project about 1935. Al B. Richmond in charge of development under direction of N. Y. Office.

30. Remarks

Richmond said to have considered development inclusive and wished to continue according to his own ideas. He is now dead. Merriman says he is confident Magma missed the ore.

31. If property for sale: Price, terms and address to negotiate.

Don't know.

The above data furnished by L. P. Merriman, P. O. Box 183, Tucson, Arizona Present residence at Golden Anchor ~~Prospect~~ prospect 8 miles East from Sasaba

32. Signature (Signed) Miles M. Carpenter
Field Engineer

33. Use additional sheet if

Date Printed: 12/12/97

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

INFORMATION SUMMARY

Information from: **Richard Boulay**

Company: Marum Resources

Address: 407-8th Ave., Suite # 400
City, State ZIP: Calgary, Alberta T2P 1E5
Phone: 403-264-2220

MINE: **Mildred Peak Prpoperty**

ADMMR Mine File: Jupiter Mine file
County: **Pima**
AzMILS Number: 69

SUMMARY

Called Richard Boulay of Marum Resource to find out the area of their holdings for their Mildred Peak Property.

He explained that the Jupiter is on the northern end of the property and the Gold Bullion [Banes in AZMILS] is on the south west corner of the property. The holdings are a mix on BLM and State lands.

He reported he is moving to Arizona for the winter and will continue work on the property. He has been doing his surface sampling by gravity concentrating, then assaying the concentrates. He mentioned a sandstone member to the east of the core of the property that was very anomalous in copper and silver.

Ken A. Phillips, Chief Engineer Date: December 11, 1997

GAI: TSX Venture
GARCF: O.T.C.

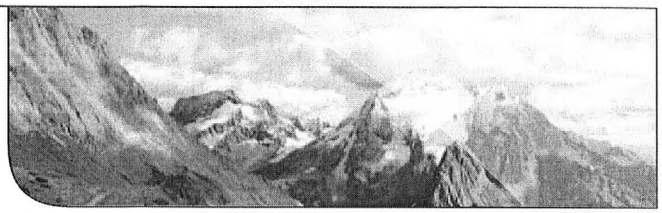
GOLDEN ARCH RESOURCES LTD.
www.goldenarchresources.com

Exemption 12g3 – 2(b)
SEC File # 82-659

QUICK FACTS

February 6, 2006

Share Capital:..... 100,000,000
Shares Issued:..... 52,378,370
Fully Diluted:..... 62,643,370
Warrants:..... 5,000,000
Options:..... 5,265,000



WE'RE DRILLING AGAIN

We have resumed drilling at our 100% controlled Mildred Peak gold/silver/copper property in Pima County, Arizona. The current program, using our company-owned drill rig, is designed to verify grades in the vein system on the Rachel-Michelle zone on the southern part of the property. The total property covers 15 copper and precious metals prospects over 8,300 acres of mineral permits as well as 1,000 acres of Federal mining claims.

We have been encouraged by results to date on the third zone on this property, the Jupiter. Results from 2005 drilling returned assays:

DDH No.	Interval –		Au		Ag	
	Feet	Meters	grams/tonne	OPT	grams/tonne	OPT
MP 05-01	42	12.8	0.97	0.03	17.5	0.51
	Including 15	4.6	1.47	0.04	21.3	0.62
MP05-02	30	9.14	2.32	0.068	10.2	0.30
MP 05-03	23.2	7.07	1.65	0.048	11.8	0.34

•Plans call for additional drilling to test extensions to these results in all directions.

SILVER MAYBE THE NEW GOLD

The recent surge in base metal prices has warranted a re-evaluation of our Abbott Wagner silver/lead/zinc property located in southeastern British Columbia's Slocan Valley. Golden Arch holds a 100% interest in this property which has seen intermittent exploration for many years. There are three adits on the claims. As this part of B.C. is mountainous with heavy snowfall, an exploration program is planned for late Spring. The work includes re-opening the adits to access known mineralization for re-sampling in order to verify previous resource estimates.

The ore is considered direct-shipping ore as the mineralization is known to grade between 11% and 16% combined lead-zinc and approximately 10 oz silver per/tonne. Plans call for it to be shipped to the Teck Cominco smelter at Trail, southeast B.C. As a seasonal operation, it could be in production for about seven months a year.

Golden Arch will have an NI 43 -101 compliant resource estimation prepared and it is hoped that a production decision can be made by summer, 2006.

OIL & GAS REVENUE ASSISTS IN FUNDING OUR EXPLORATION EFFORTS

Golden Arch has varying minority working interests in seven wells located in Palo Pinto and Jack Counties, Texas. In addition, we have a 2% interest in an unrelated well, the Young # 2-66, in Hemphill County, Texas which has recently started to produce cash flow. We continue to investigate additional opportunities in both oil and gas in order to fund our North American mineral exploration efforts.

FOR FURTHER INFORMATION

Les Kjosness, President | Office: 604-681-8222 Cell: 604-219-4050 | les@goldenarchresources.com

Kirsti Mattson, Corporate Communications | Cell: 604-202-2484 | kusickmattson@yahoo.ca

Suite 928 – 470 Granville St., Vancouver, B.C. V6C 1V5

GOLDEN ARCH
RESOURCES LTD.

GAI: TSX Venture
GARCF: O.T.C

Exemption 12g3 – 2(b)
SEC File # 82-659

www.goldenarchresources.com

News Release

20060412LK-1

GOLDEN ARCH RESOURCES COMMENCES PHASE II DRILL PROGRAM AT MILDRED PEAK GOLD/ SILVER/COPPER PROPERTY, AZ

April 12, 2006, Vancouver, BC—Les Kjosness, President of Golden Arch Resources Ltd. (TSX.V:GAI) announces the commencement of the 2006 Phase 2 diamond drill program at its Mildred Peak Property in Pima County, Arizona.

The current program will begin by testing the down dip extension of the Rachel Gold Vein where earlier drilling (News Release dated March 22, 2006), has identified a gold/silver zone in six holes and by surface trenching. The widest intercept to date in hole # MP06-10 intersected a 6.8 meter (26 foot) section grading 2.94 gm Au /mt, and 32.25 gm Ag /mt (0.086 opt Au and 0.94 0pt Ag). **This section included a 1.83 meter (6.0 foot) length which graded 6.48 gm Au /mt, and 69.93 gm Ag /mt (0.189 opt Au and 2.04 opt Ag).**

In the same area, a second target will be the down dip extension of the Michelle Gold Vein where surface trench sampling indicated **a mineralized zone approximately 90 meters (295 feet) long by 8.25 meters (27 feet) wide with a weighted average grade of 11.5 gm Au/mt (0.34 opt) gold.**

Approximately one kilometer north, the third target will be an initial shallow drill-test on the Bonnie Zone where three backhoe trenches have indicated at least two vein structures with an approximately **300 meter (984 foot) strike length with a trench sample as high as 4.43% copper, 6.6 gm (0.19 opt) Au (gold) and 237 gm (6.9 opt) silver.**

The first hole being drilled on the Rachel has been collared (located). Results of the current program will be released as they are received.

On behalf of the Board of Directors

"Les Kjosness"

"The TSX Venture Exchange assumes no responsibility for the accuracy of this Release and neither approves nor disapproves thereof."

Suite 928 – 470 Granville St., Vancouver, B.C. V6C 1V5
Tel: (604) 681-8222: Fax (604) 681-8282
info@goldenarchresources.com

President and Director

The Company's exploration program is under the supervision of R.D. Somerville, P. Eng., a Qualified Person under National Instrument 43-101. Mr. Somerville is Vice President and COO of Golden Arch Resources Ltd.

Golden Arch Resources Ltd. is a metals, oil, and gas and exploration company based in Vancouver, BC, Canada. Its principal asset is the Mildred Peak Copper, Gold and Silver property located in Arizona, USA acquired in 2001.

GOLDEN ARCH
RESOURCES LTD.

GAI: TSX Venture
GARCF: O.T.C

Exemption 12g3 – 2(b)
SEC File # 82-659

www.goldenarchresources.com

News Release

20060327LK – 3

Golden Arch – Warrants Re-Priced

March 27, 2006, Vancouver, BC –. Golden Arch Resources Ltd. (the "Company"), subject to the approval of the TSX – Venture Exchange, would like to announce that the exercise price for 1,500,000 warrants expiring April 26, 2006, which warrants relate to the private placement of April 26, 2004 , originally priced at $0.40 Cdn per warrant, have been reduced to $0.30 Cdn. When exercised, the funds will be used for general corporate working capital purposes and to further the Company's Mildred Peak, Arizona drilling program.

On behalf of the Board of Directors

"Les Kjosness"

President and Director

The Company's exploration program is under the supervision of R.D. Somerville, P. Eng., a Qualified Person under National Instrument 43-101. Mr. Somerville is Vice President and COO of Golden Arch Resources Ltd.

Golden Arch Resources Ltd. is a metals, oil, and gas and exploration company based in Vancouver, BC, Canada. Its principal asset is the Mildred Peak Copper, Gold and Silver property located in Arizona, USA acquired in 2001.

"The TSX Venture Exchange assumes no responsibility for the accuracy of this Release and neither approves nor disapproves thereof."

Suite 928 – 470 Granville St., Vancouver, B.C. V6C 1V5
Tel: (604) 681-8222: Fax (604) 681-8282
info@goldenarchresources.com

Jupiter mine
Pima Co.

8
M

Denton
REAL ESTATE CO.
commercial division

May 5, 1988

Dear Sirs:

The Denton Real Estate Company is pleased to offer for sale or lease a group of mining claims about 65 miles Southwest of Tucson, Arizona, on the east flank of the Baboquivari Mountains.

The property is held by 6 state leases in the Northwest quarter of Section 36, Township 20S, Range 7E.

The mine has been worked at three independent levels. The upper, the earliest was known as the Iowana, the next, The Jupiter, the lowest, The New Jupiter. New drillings and assays show that there are significant values of readily accessible gold and silver, mostly in the form of sulfides.

The owner will entertain an exploration six month option period for $10,000, plus an additional lump sum payment of $10,000 upon exercise of the option, followed by payments of advance minium royalties of $3,000/quarter, plus 5% of the net profit above the $1,000/mo. min. An outright sale or installment sale, with lease payments applicable to the purchase price are a possiblity.

Qualified operators are invited to review the drilling and assay reports.

For further information please call me at (602) 577-0700.

Yours Truly,

Charles S. Porter, GRI

CSP/pg

LA PALOMA CORPORATE CENTER
3567 E. Sunrise Dr., Suite 215
Tucson, Arizona 85718
(602) 577-0700

ARIZONA DEPT. OF MINES & MINERAL RESOURCES
STATE OFFICE BUILDING
416 W. CONGRESS, ROOM 161
TUCSON, ARIZONA 85701

THE NEW JUPITER MINE

Located in the Northwest quarter of Section 36, T19S, R7E, G&sr B&M, Pima County , Arizona, in the Baboquivari Mining District (Mildred Peak, Arizona, 7.5 ' Series USGS map).

The claims are of the type B, that is, laid out according to a twenty acre legal description and having no extralateral rights.

Arizona State Lease	Legal Description	Record
11-04193	W2NE4NW4	3-31-71
11-04194	E2NW4NW4	3-31-71
11-04154	S2SW4NW4	11-30-70
11-04155	N2SW4NW4	11-30-70
11-04156	N2SE4NW4	11-30-70
11-04157	S2SE4NW4	11-30-70

"Material in sight and available for mining would be in the 30,000 to 40,000 ton range and assays 0.5 to 1.5 oz/ton gold and 5 to 15 oz/ton silver".
from Owner's professional report.

Terms: $10,000 up frontfor exploration and option, then $10,000 to exercise the option, plus $1000/mo, paid quarterly, plus 5% of net profit over the basic minimum royalty.

JUPITER MINE

PIMA COUNTY

MG WR 4/23/82: Mr. Randy O"Connell, 2000 E. River Rd, #B-6, Tucson, AZ 85718, reports the Jupiter Mine in the Baboquivari Mountains in owned by Marvin Combs. Mr. Combs leases the property to Mr. Bob Johnson, Apache International Mining Co.

KAP WR 12/10/82: In the company of Nyal Niemuth a visit was made to the Jupiter Mine, Baboquivari District, Pima County. A separate reoprt has been written.

CJH WR 8/23/85: Visitor: Michael J. Hopley, Chief Geologist, Winston Resources Ltd., St. Bartholomew House, 92 Fleet St., London, England, EC4Y 1DH, phone: 44-1-353-7331. U. S. contact: 12567 West Cedar Drive, Lakewood, Colorado, 80228; phone (303) 980-8866. Winston Resource Ltd. has subleased the Jupiter-Gold Bullion mines, Baboquivari dist., Pima County, Apparently from Bob Johnson, Apache International Mining Co. Mr. Hopley is conducting a geogogic examination of the property and requested copies of mine assay maps nad drill hole assay logs from our file.

NJN WR 6/17/87: Carew McFall (card) of Mt Heagon Development of Boulder, Montana called and reported that he has been offered the Jupiter Mine (file) Pima County by Rob Johnson (card). Mr. Johnson purports the property as having large potential of .4 Au.

Jupiter Mine file
Pinal Co.
GH
G

BRUCE BABBITT
GOVERNOR

Arizona
State Land Department

1624 WEST ADAMS
PHOENIX, ARIZONA 85007
602 - 255 - 4634

OFFICE OF
STATE LAND COMMISSIONER

August 8, 1979

Mr. Marvin W. Combs
918 W. Santa Maria
Tucson, Arizona 85706

Dear Mr. Combs:

Enclosed for your information is the report of John Kellogg, dated July 31, 1979, on your proposed millsite and tailings pond.

May we suggest that you take the initiative in resolving the questions raised by Mr. Kellogg, if you wish to continue with the processing of your application.

A copy of this letter and the report is being sent to the Attorneys for Nelson Ranches, Bilby, Shoenhair, Warnock & Dolph, whose letter to this Department dated March 6, 1979, is enclosed for your reference.

With regard to any technical matters, please contact Mr. Kellogg.

Sincerely,

John M. Little, Director
Urban & Community Development Division

Telephone: 255-3671

JML/et

Enclosure

cc: Bilby, Shoenhair, Warnock & Dolph, P.C.
John Kellogg, State Land Dept.

Arizona State Land Department

MEMORANDUM

Date: July 31, 1979

To: John M. Little
via A. K. Doss AKD

From: John P. Kellogg JPK

Subject: Commercial Lease Application #73451 - Cyanide gold and silver leach operation in Section 36, T19S, R7E.

In company with the applicant, Marvin Combs, I examined the subject property on July 19. The five acres requested are the E2SWNWNW, adjacent to Mr. Combs' six mineral leases #4154, 4155, 4156, 4157, 4193 and 4194. Mr. Combs plans to construct the millsite in M-4193, with tailings ponds lapping over onto the commercial lease, on which he will erect shops, bathhouse and storage sheds. The property is known as the Jupiter Mine, and is shown on the Presumido Peak 15-minute quad sheet.

Shaffer Wash heads a short distance above the proposed millsite, courses through the requested commercial lease and through the Nelson ranch about ten miles before it empties into Altar Wash. Shaffer Wash is the problem; it is the umbilical cord furnishing life to the project, and through which, in return, the pregnant cyanide solutions could escape.

In 1840, a Swedish chemist discovered that gold was soluble in a cyanide solution, and the art of gold electro-plating was born. The cyanide process of treating gold and silver ores evolved in 1886, and has since proven to be safe and effective throughout the world - IF conditions are right, and IF adequate care is given to the process. Briefly, heap leaching consists of piling crushed run-of-mine rock on an impervious base and percolating a dilute solution of either potassium or sodium cyanide through the heap, collecting the solution and recycling it. This may require weeks or months, depending on the depth and permeability of the heap and the size and permeability of the rock. The impervious base should be flat and slightly inclined to a gutter for collection. The base can be asphalt, bentonitic clays, plastic liners, or a combination of clays and plastic. There are several reducing agents to effect precipitation of the gold and silver from solution.

A conventional cyanidation plant, with vats for agitation, thickener decantation, residue washing, filtering, and deaeration by vacuums is time-proven to be environmentally harmless by its enclosed nature. Outdoor heap-leaching, or "poor-boying it," can be harmful and even dangerous if particular care and safeguards are not taken. In a U. S. Bureau of Mines bulletin on "The Heap Leaching Process" presented at the American Mining Congress Convention in Denver in 1973, Potter and Salisbury write "From the ecological standpoint, heap leaching has a low potential for pollution.

Cave Mine - Hualapai
near Cal Mine Road

294-2890 Combs

The residues are coarse and nearly dust-free, no gasses are emitted, and all solutions are recycled." This is ideally true. Several conditions exist at the applicant's proposed site that could interfere with this ideal. They are itemized below.

1. Not being a chemist, I am not certain of this truth: that cyanide reacts with sulfide ores, which generate acid, to produce the same gas that is used in gas chambers (this should be chemically verified). Combs' ores from the Jupiter Mine are heavy with sulfides.

2. Shaffer Wash, noted above, could present a serious problem. It is not known by the writer how far a dilute cyanide solution will travel in a dry wash. I suspect that it would dissipate quickly, and be rendered harmless in the sand and gravel bed before it even left the five-acre commercial lease. That's when the wash is dry. Note attached photo number 11: This real grandaddy gully-washer is centered directly over the Jupiter Mine area. How far a flooded Shaffer Wash would carry a diluted cyanide solution before it dissipated would appear to be a major concern. And would a residue remain after the wash dried out?

3. The smaller the crew attending a cyanide heap leaching operation the less the control over all phases. Particularly vulnerable to accident is storage of the pure, undiluted cyanide with no one in attendance. It is my understanding that Mr. Combs will have only one laborer; it is not difficult to visualize the two men gone at the same time.

4. Mr. Shoenhair, attorney for Nelson Ranches, is on record in a letter dated March 6, 1979 that expresses concern for possible cyanide contamination in water supplies. Mr. Shoenhair advises a "thorough investigation made" of the proposed operations. To this, I heartily concur.

Eleven photographs, two of which are two-shot overlaps, are attached on four card sheets. Photo #1 is an overall view of Mr. Combs' proposed millsite, leaching pad and tailing ponds (in part) with Shaffer Wash in the foreground. The switchback road in the center distance (shown in detail in Photo #2) leads to his millsite, which will consist of crusher, ball mill, and solution tanks. At the bottom of the right hand "road" in Photo #2 is the leaching pad location. In places some of the white, totally inadequate small diameter pipe can be seen. Where this pipe has been exposed by rains, cattle have stepped through it. Photo #3 shows the ore-haul road from the Jupiter Mine portal and dump in the middle distance. Photo #4 is a closeup of the partially cleared leaching pad area. Photo #5 is a view north to the head of Shaffer Wash. The pad area shows in the middle distance. It is beyond this pad, on the yet un-cleared slopes, that the first tailings pond is planned. A dozed-up berm will surround the pond. Mr. Combs plans to divert

the near wash away from the pond by digging a trench to Shaffer Wash upstream several hundred feet north of its present location. Photo #6 shows Shaffer Wash downstream from Mr. Combs' planned operations. Photo #7 shows an old concrete dam in Shaffer Wash on the commercial lease area, downstream from all planned operations. Mr. Combs plans to doze out the accumulated sediment; in the event of flood, this dam should catch considerable material, but a major, 100-year flood would likely wash around the dam, shown from above in lower left side of Photo #8. This view shows road access above the dam, and general area for shops, shed, storage and trailers. Photos #9 and 10 show Mr. Combs' first choice for a mill site, located at an old former mill by another mine which is shown in the middle distance in Photo #10. This location, about one mile downstream from the present location and a quarter mile up a side wash, also appears more favorable to me, since tailings are already there, and pollution of Shaffer Wash would appear less likely, but the rancher did not agree.

Comment has already been made of Photo #11, showing a storm gathering over the Jupiter area. This is a view west, with Mildred Peak in the clouds to the far left. The rancher's gate in the foreground is at entrance from the Tucson-Sasabe highway.

General Conclusions and Recommendations

There is a potential here of sufficiently serious consequence to enlist more expert opinion. For a start, I recommend consultation with Dr. Ron Miller, Water Quality Control, Arizona Health Department. Mr. David Rabb, Mining Engineer and Metallurgist with the Arizona Bureau of Geology and Mineral Technology did some leaching tests for Mr. Combs. I have had a long talk with Mr. Rabb concerning this problem. Perhaps he should be consulted further.

Normal precautions, as special conditions, should be as follows:

1. Secure fencing around millsite, leaching pad, tanks, and tailings ponds.

2. Impervious base for the leaching pad, consisting of plastic liner covered with several inches of bentonite-like clay.

3. A plentiful supply of regular swimming pool chlorine, which neutralizes cyanide immediately.

4. A powder-magazine-type underground storage for the pure, undiluted cyanide.

5. Tailings pile berms of sufficient height and thickness to withstand any flooding.

6. Pipe of adequate size and strength for all solution recycling.

7. Chemical toilet.

8. Some responsible person in attendance at all times during leaching process to keep visitors away from the cyanide, and with equipment available to repair dam and pipe breaks.

9. Signs posted warning of hazardous materials, and of blasting at the mining operations.

10. Any additional recommendations from the Health Department, or others, to be added.

JPK/lj

RALPH W. BILBY
T. K. SHOENHAIR
HAROLD C. WARNOCK
W. E. DOLPH
DAVID W. RICHTER
RICHARD M. BILBY
MICHAEL A. LACAGNINA
CLAGUE A. VAN SLYKE
THOMAS E. WILSON
MAX C. RICHARDS
EUGENE C. GIESELER
JAMES F. MORROW
JOHN A. ROBERTSON
DAVID A. PAIGE
DANIEL A. NICOLINI
STEPHEN A. THOMAS
ROGER S. LEVITAN
DWIGHT M. WHITLEY, JR.
LINA S. RODRIGUEZ
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LAW OFFICES
BILBY, SHOENHAIR, WARNOCK & DOLPH, P. C.
NINTH FLOOR VALLEY NATIONAL BUILDING
2 EAST CONGRESS STREET
POST OFFICE BOX 871
TUCSON, ARIZONA 85702
TELEPHONE [602] 792-4800

KNAPP, BOYLE, BILBY & THOMPSON
1946-1954
BOYLE, BILBY, THOMPSON & SHOENHAIR
1954-1968
BILBY, THOMPSON, SHOENHAIR & WARNOCK, P. C.
1968-1975

March 6, 1979

OUR FILE NO. 69-027-003

State Land Department
1624 West Adams
Phoenix, Arizona 85007

Attention: Betty J. Daniels, Case Examiner

Gentlemen:

Re: Application #C-73451
Applicant: Marvin Combs

As attorneys for Nelson Ranches we received your letter dated February 28, 1979, advising that the State Land Department has received the above application, which we assume to be for the reclassification of the following five-acre tract from grazing to commercial:

E2SW4NW4NW4 of Section 36, Township 19-S, Range 7-E

On behalf of Nelson Ranches, the present grazing lessee, we comment as follows:

Mr. Combs, the applicant, apparently holds State mineral leases or prospecting permits covering approximately 120 acres which adjoin the five-acre tract covered by the above application. Said area includes what was formerly known as the Jupiter Mine, which was abandoned as an operating mine many years ago. The mineralization in the area is supposed to contain some gold, and Mr. Combs hopes to mine the ore, treat it in a mill located on the five-acre tract, and then by some metallurgical process extract the valuable minerals from the concentrates.

The application says the area will include a "tailing pond". Our client is concerned about the process that will be used to treat the ore. Cyanide is very commonly used for the purpose of extracting gold from the host rock. Cyanide, as everyone knows, can be lethally contaminating.

The five-acre tract covered by the application happens to be located in a natural drainageway, and if the applicant's operations are not carefully and properly conducted, then water supplies (underground and surface) down grade from the mill site could be contaminated and cause injury to livestock as well as ranch personnel.

The withdrawal of the mill site from the Nelson Ranches grazing lease will not appreciably interfere with the ranching operations conducted by Nelson Ranches, and if it were not for the contamination possibility cited above, the grazing lessee would not object to the reclassification, but we feel that a thorough investigation should be made by the State Land Department so as to assure that the milling and ore treatment operations to be conducted by the applicant will not endanger livestock or water supplies in the area.

Very truly yours,

BILBY, SHOENHAIR, WARNOCK & DOLPH

By T.K. Shoenhair

TKS:dw

RECEIVED
MAR 7 1979
STATE LAND DEPT.

KALIUM CHEMICALS LIMITED

INTER-OFFICE CORRESPONDENCE

File

Date Feb. 18, 1975

Subject Jupiter Mine---Thomas Canyon Final Report

To B.P. Edmonds
Ron Brown

From Bruce C. Fuller

Reference

FEB 20 1975

Location: The Jupiter Mine is located in Pima Co., Arizona, approximately 65 miles southwest of Tucson; it lies in the NW ¼, sec. 36, T19S, R7E, on 120 acres of state lease land held by a local prospector and optioned to Heinrick's Geoexploration (P.O. Box 5984, Tucson, Arizona 85703), through whom Kalium acquired the rights to do exploration work.

This property is located on the Eastern flank of the Baboquivari mountains. Topographic map coverage is provided through the USGS 15' series map, "Presumidio Peak", 1941. There is extremely limited geologic map coverage of this area. One available map is the geologic map of Pima and Santa Cruz counties, published by the Arizona Bureau of Mines (University of Arizona, Tucson), on a scale of 1:375,000 and a contour interval of 500 ft.

Thomas Canyon is located east of the Jupiter Mine in Secs 25; T19S, R7E, and secs 30, 31, & 32, T19S, R8E.

Geology: The regional geology includes cretaceous sediments which have been intruded by a major granodiorite stock. Both were later intruded by numerous rhyolitic dikes and sills believed to be the source of mineralizing solutions.

At the Jupiter mine the host rock is granodiorite, locally chloritized, seriticized, and silicified. The Jupiter mine itself contains numerous gold and silver veins and auriferous disseminated sulfides in altered country rock. The mine consists of several thousand feet of workings (recently mapped by Heinrick's) developed on these small and discontinuous veins, carrying a few % sulfides, primarily as pyrite, galena, and chalcopyrite. The surrounding country rock is altered and silicified and carries at best 1% disseminated pyrite.

The following concerns the southern portion of the Baboquivari mountains, where the Jupiter mine property and Thomas canyon are located. It is reprinted from Bulletin No. 137, Arizona Bureau of Mines, Mineral Technology Series No. 37, "Arizona Lode Gold Mines and Gold Mining" by E.D. Wilson, J.B. Cunningham, and G.M. Bulter (revised 1967), p. 180.

Date

To

From

Subject Jupiter Report---page 2

Reference

"In the southern portions of the Baboquivari mountains most of the gold-quartz veins so far explored occur near the foothill margin of a pediment along the eastern base of the range. Here the prevailing rocks consist of unmetamorphosed to schistose Cretaceous shales, conglomerates, and quartzites intruded by numerous dikes of granite and diorite porphery. The veins occur within fault fissures which strike in various directions and dip from 15 degrees to nearly vertical. Their filling consists of coarse-grained white quartz and calcite, together with scattered bunches of pyrite, galena, and minor chalcopyrite. In places molybdenite is relatively abundant. Within the oxidized zone, which is only a few feet below the surface, the quartz is rather cellular and contains abundant limonite with some malachite. Sericite and secondary quartz are abundantly developed in the wall rocks. The gold of these veins is generally not visible, but it probably occurs in the sulfides and in their oxidation products."

History and Production: According to a report by E.B. Holt (mining engineer) in 1936 and acquired by Kalium through Heinrick's, this property was discovered by Charles Bent and Edward Hudson around 1879. It was originally named the Octopus mine. The owners were supposed to have erected a stamp mill in 1889 and are said to have milled approximately 2,000 tons of ore averaging $12. per ton in gold and silver. Their mill later burned down.

In 1931 an individual named Lew Kemp spent in the neighborhood of $150,000. on the property "carrying out 600 ft. of poorly directed development work and the erection of a 25 ton concentrating plant. He failed and the mill was sold."

"During 1935 the Shattuck-Denn company did a small amount of work in the upper levels of the mine...Magma copper company took over the property during 1935 and did about 2,500 ft. of work in the lower level of the mine, but they failed to find sufficient ore for their requirements, suspending operations late in 1935."

* The property then passed into the hands of an individual named O.C. Lamp, who shipped a small amount of ore from the property (alledgedly 300 tons at $8. and 8 tons at $16.) Lamp is reputed to have owned another property in the vicinity of the Jupiter mine (called the Iowana, 6 miles from the Sasabe road and 62 miles from Tucson) from which a few shipments of table and flotation concentrates

were made. According to Lamp, these concentrates contained from 4 to 7 ounces of gold and 58 to 60 ounces of silver per ton. (Bulletin No. 137, p. 181)

This history is at best sketchy. There are no records of production available in the literature and there are few references made to the Jupiter mine.

Kalium felt there was the potential of developing a large tonnage, low grade deposit at the Jupiter mine (due to the increased prices of gold and silver), since the veins are too small and discontinuous to be mined alone. Before the property was drilled out, Willard Leedy, Kalium geologist, estimated there might be a potential of 25 million tons of open pit ore averaging $8. per ton.

Kalium's Work: Kalium's first reconnaisance of this property was in March of 1974, at which time 22 samples were taken from surface and underground exposures. Five country rock samples averaged $7.22 a ton (in gold and silver) and 17 vein samples (averaging 4 ft. in width) averaged $23.59 per ton in gold and silver.

Kalium decided to procede with further exploration, resulting in a lease agreement with Heinrick's in order to accomplish this. Between March and September, Kalium proceded with further sampling of the outcrops in the vicinity of the Jupiter mine and with sampling on a more regional basis, especially to the east of the Jupiter mine in Thomas Canyon. After preliminary sampling, some claims were staked by Kalium in this area on BLM land.(An exact location map of these claims is unavailable and whether or not the claims were ever filed is not known at this time)

A sampling grid approximately 2500 ft. by 2000 ft. was laid out, centered around the Jupiter mine. 119 rock chip samples were taken at 100 and 200 ft. intervals. These geochem samples were analyzed for silver and gold by Rocky Mountain Geochemical laboratories of Prescott, Arizona. Geochem analyses were also done for Cu, Zn, Pb, Mo, and Arsenic for samples taken from the workings of the Jupiter mine and the grid area.

45 regional rock chip samples were collected and analyzed geochemically for Au, Ag, Cu, Pb, and Mo, resulting in some highly anomolous values (especially for Mo) in the Thomas Canyon area.

Sufficient anomolous values were obtained from the Jupiter grid area that it was decided that Kalium should procede with a

drilling program in order to better determine the value and extent of the mineralization both at the Jupiter mine and in Thomas Canyon. Kalium personnel involved in the sampling were Bill Leedy, Bill Barridge, and Pete Miller.

In September 1974, a bulldozer operator was hired to improve the roads leading into the property, and drilling bids were obtained. It was decided to use air-track drilling and to drill holes of approximately 150 ft. in depth. The drilling was awarded to R. Leo Searle (264 Est 7200 So., Midvale, Utah 84047), who arranged to lease equipment from Atlas Copco, Inc., of Tucson, Arizona.

29 drill hole sites were laid out along the switchback roads in the vicinity of the Jupiter mine workings on 50 ft. spacings; 6 drill sites were laid out in the vicinity of an abandoned shaft located approximately 1,000 ft. south of the workings.

6 additional drill sites were laid out in Thomas canyon corresponding to the areas of high anomolous sample values. The drilling in this area was also to be in partial fulfillment of the Arizona state requirements for claim validation.

Drilling Program: The drilling program commenced on October 18, 1974, and was completed November 1, 1974. 4245 ft. were drilled in the 29 holes at the Jupiter mine; 885 ft. were drilled in 6 holes located near the abandoned shaft; and 335 ft. were drilled in the 6 holes in Thomas canyon.

The drilling in Thomas canyon was hampered by sub-surface water. The deepest hole drilled was 110 ft. (as opposed to 150 at the Jupiter), and three holes were respectively 10, 20, and 20 ft. in depth.

In all a total of 5,465 ft. were drilled in 41 holes. Samples were collected at 5 ft. intervals from all holes. The samples were split in the field; from each sample interval a sample was taken for assay, and a library sample was saved for future reference. * Samples to be assayed were sent via Hughes Air West air freight from Tucson to Kalium's laboratory in Regina. The reference samples were collected and returned to Kalium's field office in Prescott.

Kalium personnel involved in the drilling program were Bill Leedy, Bruce Fuller, and Colin Howard. For the duration of the drilling program, all stayed in the company trailer on the job site. Drilling was conducted 6 days a week approximately 10 hours a day, and was at times hampered by extremely unseasonal weather for Southern Arizona.

Samples from the Jupiter vicinity and the shaft area were assayed for gold and silver in ounces per ton, and for copper in ppm.

Samples from Thomas canyon were analyzed for Cu, Pb, Zn, and Mo in ppm and for gold and silver in ounces per ton.

The analyses were completed by Kalium's laboratory staff in Regina by the beginning of February, 1975.

After the completion of the drilling program, the 29 holes in the Jupiter mine vicinity and the 6 holes nearby in the vicinity of the shaft were surveyed. All holes were tied together and were tied into the U.S. government brass cap (1915) located at the section corner common to secs. 25, 26, 35, and 36, T19S, R7E. An elevation was obtained at each hole. The surveying was accomplished by Bruce Fuller.

Results: All in all the results obtained from the analyses of the drilling samples were extremely discouraging. The results seemed to confirm the fact that the Jupiter area was composed of small, discontinuous vein structures that had a few high isolated values for gold and silver. The country rock in no way contains values that could offer encouragement for a large tonnage, low grade open pit mining operation.

Most high grade values were obtained from quartz veins, where the drilling was quite slow compared to that of the host rock, granodiorite. In all holes a weathered zone was encountered that varied in thickness from 20 ft. to approximately 60 ft., averaging about 35 ft. The chips from drilling through this weathered zone tended to be darker than those of the unweathered zone, which were generally a light grey-green. There did not appear to be any significant correlation or difference between the values obtained from either zone. All were consistently low.

*

In several holes, significant pyrite was visible to the naked eye. There was little correlation between visible mineralization and assay value.

In computing economic values of the drilling program, gold was valued at $150. per ounce, and silver was valued at $5. per oz. It was decided to assign $7.50 as the cutoff point (in terms of dollars per ton) for ore grade material. In computing tonnages, each drill hole was arbitrarily made the center of a 25 ft. square; thus each drill hole would define a volume 25x25xdepth. Using 2.65 as the specific gravity of the host rock, one gets 12 cubic feet per ton. Thus tonnage was computed through the following formula:

$$\frac{25 \times 25 \times \text{interval}}{12}$$

It should be noted that this is of course only a very rough estimate of the total tonnage for this drilling project.

The average gold value per hole for the 29 holes drilled in the vicinity of the Jupiter workings varied from .001 oz/ton to .036 oz/ton. The average silver value per hole varied from .07 oz/ton to .77 oz/ton. Both of these highs came from drill hole J-20, and result in 5469 tons of $9.25 rock. Other significant intervals encountered were:

1. DH J-9---- 120 ft (15-135) of $7.60 rock(.034 Au & .50 Ag)
2. DH J-12--- 75 ft. (0-75) of $7.50 rock (.03 Au & .60 Ag)
3. DH J-7---- 50 ft. (0-50) of $8.05 rock (.038 Au & .47 Ag)

In summation the 29 Jupiter holes yielded 35,413 tons of ore grade material at a cutoff of $7.50, a total economic value of $286,816.

The average gold value for the 6 holes drilled in the vicinity of the shaft south of the Jupiter workings varied from .001 oz/ton to .043 oz/ton. The average silver value varied from .05 oz/ton to .79 oz/ton. Both of these highs occured in drill hole SH-3, located near the top of a small knoll adjacent to several prospect pits. This hole yeilds 7,812 tons of $10.40 rock. The total tonnage from the 6 shaft area holes is 8,854 tons, an economic value of $90,677. There was no ore grade material from 3 of the 6 holes drilled.

Combining the 29 holes drilled in the vicinity of the Jupiter workings with the 6 holes drilled near the shaft, there is a total of 44,267 tons of ore grade rock at a cutoff of $7.50, an economic value of $377, 493.

KALIUM CHEMICALS LIMITED

INTER-OFFICE CORRESPONDENCE

Page Jupiter Report - page 7

Date

To

From

Reference

A chart is attached to this report showing for each of the 29 Jupiter holes and 6 shaft holes the avgerage Au and Ag values per hole, the intervals of ore grade material, the depth at which they are found, and the particular assay values. Tonnages and value in dollars are also shown.

There were no significant results obtained from any of the six holes drilled in the Thomas canyon vicinity, in spite of some particularly high geochem results, and in spite of apparent heavy mineralization (pyrite) visible in the cuttings of one of the holes.

The following information is on file in Kalium's Prescott field office: maps showing the locations of all samples collected, the values of all samples collected, maps showing the locations of each drill hole, all survey data including elevations at the surface of each hole, and charts showing the assay value for each sample interval for each hole drilled, along with any pertinent observations made in the field. Also on file are all data available pertaining to land status and previous production, much of which was obtained through Heinrick's. A good bit of this data is also on file in Kalium's Regina office through Ron Brown and Colin Howard.

Conclusions: It was decided after a detailed sampling and drilling program that there was no cause for further exploration in either the vicinity of the old Jupiter mine or in Thomas canyon. After completion of the drilling program and analysis of the available data, Kalium's agreement with Heinrick's was terminated.

Sincerely,

Bruce C. Fuller

Bruce C. Fuller
Geologic Field Assistant
Kalium Chemicals Ltd.
Prescott, Arizona

*

Kalium Chemicals Limited

FEB 1 9 1975

February 14, 1975.

Mr. B.P. Edmonds
Kalium Chemicals Limited
#210, 105 Fillmore Street
Denver, Colorado. 80206

Dear Sir:

Please find enclosed a brief report on the results from the Jupiter area drilling program. Assay reports and pertinent copies of maps are appended.

The results indicate that there is little potential of delineating sufficient ore grade material to support a viable mining operation.

The proposed follow-up work would probably only verify this conclusion.

Respectfully submitted,

Colin Howard

Mr. Colin D. Howard
Minerals Technologist

*

REPORT ON

THE JUPITER PROJECT

PIMA CO ARIZONA

By:

Mr. Colin D. Howard
Minerals Technologist
February 14, 1975

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Tonnage Calculations

Hole Evaluation

Conclusions

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General Map of Area

Detailed Map of Area

Map of Drill Holes Superimposed Over Old workings (Jupiter)

Elevation Contour Map (Jupiter)

Surface Gold Contour Map (Jupiter)

Surface Copper Contour Map (Jupiter)

Assay Results From Jupiter, Shaft and Thomas Canyon Areas

JUPITER PROJECT, PIMA CO, ARIZONA

INTRODUCTION

Three separate areas were drilled in the project area (see general map). The Jupiter area was drilled over the workings of the old Jupiter mine. This area was thought favorable to contain a fairly reasonable tonnage of low grade porphyritic gold ore. Also a geochemical surface rock chip sampling program had revealed this area contained anomalous gold values.

The Shaft area was drilled near an old exploration shaft in an area where the geochemical surface rock chip samples had indicated a weak gold anomaly.

The Thomas Canyon area was drilled to investigate several highly anomalous molybdenum results from the regional geochemical survey as well as to validate claims staked in this area by Kalium.

The Shaft and Jupiter areas are on land held under lease by Heinrichs Geoexplorations of Tucson, Arizona and optioned by Kalium.

RESULTS

TONNAGE CALCULATIONS

Tonnages are calculated using a 25 foot square of influence for each drill section. This yields a 3125 cubic foot volume for each 5 foot drill intersection and at a specific gravity of 2.7 this yields a tonnage of 263.3 tons.

Allowing for dilution of $7.50 per ton, Jupiter yields 22,828 tons and Shaft yields 8,271 tons at an average grade of 0.042 oz/ton Au and 0.40 oz/ton Ag. Values were calculated assuming a gold price of $150.00 per ounce and a silver price of $3.00 per ounce)

(The tonnages by hole follow.)

TONNAGES BY HOLE ($7.50 CUTOFF)

JUPITER

J-2	263.3	Tons @	$ 8.67
-3	789.9		12.04
-4	263.3		8.22
-7	1053.2		15.15
-8	789.9		9.80
-9	2633.0		12.64
-10	263.3		8.16
-11	526.6		17.30
-12	789.9		18.16
-16	263.3		8.22
-17	526.6		18.47
-18	789.9		10.50
-19	263.3		10.92
-20	1843.1		14.03
-21	263.3		10.23
-26	526.6		17.30
-28	526.6		8.43
-29	789.9		11.98
Total	13,165.0	Tons @	$13.00

SHAFT

SH-2	263.3	Tons @	$13.98
-3	1843.1		28.00
-4	526.6		8.01
-6	263.3		9.57
Total	2,896.3	Tons @	$21.42

*

CONCLUSIONS

The Thomas Canyon area showed no results that would at this time warrant follow-up work. Even surface drill samples located directly above the sample locations of the anomalously high molybdenum values failed to reveal indications of ore grade material.

Both Shaft and Jupiter areas encountered small zones of economic levels of gold-silver mineralization but not in contiguous zones nor in sufficient tonnages to warrant economic interest or to infer higher tonnages.

RECOMMENDATIONS (JUPITER AND SHAFT AREAS)

Although the possibility of discovering sufficient further economic mineralization to warrant continued interest in this property seems weak, there are two relatively inexpensive methods of checking for further mineralization. The first thing that should be done is a detailed geological map of the immediate area, paying close attention to quartz veins and fracture zones. This should be done both on surface and in the underground workings to attempt to correlate the geology with known mineralization underground. Secondly, the plots of gold and copper in surface samples (appendix) over the drilled area on Jupiter indicate that there is a source of mineralization up hill from this drilled area and a detailed surface sampling program (possibly with a Winkie drill) may define its source.

All in all though, the potential of finding sufficient further ore grade material to even start to make this property economically feasible seems remote; the above mentioned possible work would probably just serve to verify this conclusion.

/plk

2-28-68

JUPITER MINE.

Located in S36:7E:19S, Baboquivari Mts. Presumido Peak quadrangle.

Information from, Harvey Riggs, Art. Jacobs & ABM bulletin 137.

Unable to get to the mine but looked over the area with field glasses. It is reported that Shattuck Denn did some work. Later it was reported that Magma Copper Co. drove a 1300' tunnel and found nothing. There are no recorded patented claims near the mine, so ownership is unknown.

Some company has been doing geophysical work in the area recently.

North American Mining Company is studying the area at the present time.

Visited by G. Irvin 2-28-68

Ford Hotel,
July 1, 1938,
Phoenix, Arizona

Mr. O. C. Lamp,
Tucson, Arizona.

Dear Mr. Lamp:

I am herewith enclosing a brief report on your Jupiter mining property.

Trusting the same will meet your requirements for the present, I am

Very sincerely yours,

E. B. Holt.

P. S.

While I was in Nogales recently I took your property up with Col. J. C. Besley, who is operating a mine in Sonora, and he was considerably interested in the matter. I am today mailing him a copy of the report, referred to above. I suggest if possible that you get in touch with him.

C.C. Col. J. C. Besley

*

Trace Analysis

Assays

ROCKY MOUNTAIN GEOCHEMICAL LABORATORIES

519 North Washington Ave.
Phone: 445-4393
PRESCOTT, ARIZONA 86301

CHEMICAL ANALYSIS CERTIFICATE

Date September 16, 1974

Client Mr. Willard P. Leedy
Kalium Chemicals, Ltd.
P.O. Box 2441
Prescott, Arizona

Submitted by W. Leedy

Date Instructions 9/10/74

Report on 119 Pulp Samples

Analysis COPPER, ZINC, LEAD, MOLYBDENUM

Remarks Cu, Zn, done by Atomic Absorption methods.
Pb, Mo, done by Colorimetric methods.
Results given in parts per million.
The minus (-) sign is read "less than".

Purchase order no. KR74-0046

Jupiter Grid

cc: encl.
file

REGISTERED ASSAYER
CERTIFICATE No. 6847
EDWIN ADAM JOHNSON
Date Signed 9/16/74
ARIZONA, U.S.A.

*

All values are reported in parts per million unless specified otherwise. A minus sign (—) is to be read "less than" and a plus sign (+) "greater than." Values in parenthesis are estimates. This analytical report is the confidential property of the above mentioned client and for the protection of this client and ourselves we reserve the right to forbid publication or reproduction of this report or any part thereof without written permission. 10,000 ppm = 1% 34.3 ppm = 1 Troy Oz. per Ton

Results given in parts per million.

SAMPLE NO.	COPPER	ZINC	LEAD	MOLYBDENUM
2245	20	45	-5	-1
2246	25	65	-5	1
2247	10	45	-5	-1
2248	15	50	10	-1
2249	90	35	1,200	290
2250	10	25	-5	-1
2251	5	40	5	8
2252	20	55	50	35
2253	10	30	-5	-1
2254	50	70	10	-1
2255	20	40	-5	-1
2256	15	60	5	-1
2257	45	50	5	-1
2258	-5	15	-5	-1
2259	40	120	10	3
2260	10	5	30	800
2261	10	20	-5	7
2262	10	50	-5	2
2263	10	20	-5	7
2264	20	70	-5	7
2265	15	40	-5	5
2266	5	25	-5	-1
2267	10	30	-5	-1
2268	10	35	10	3

Pulp Sampl---Instructions 9/10/74
Results given in rts per million.

SAMPLE NO.	COPPER	ZINC	LEAD	MOLYBDENUM
2269	15	25	-5	20
2270	-5	15	-5	-1
2271	10	20	25	1
2272	5	25	-5	-1
2273	10	20	5	3
2274	20	40	10	-1
2275	45	70	50	13
2276	-5	15	-5	-1
2277	15	25	25	2
2278	40	95	-5	-1
2279	35	60	-5	-1
2280	35	75	10	-1
2281	15	50	5	1
2282	150	50	5	1
2283	10	25	-5	1
2284	10	20	5	1
2285	35	70	-5	1
2286	10	50	-5	-1
2287	5	60	40	-1
2288	5	30	-5	-1
2289	-5	20	-5	-1
2290	5	20	-5	-1
2316	5	15	-5	-1
2317	10	45	15	-1

Pulp Samples---Instructions 9/10/74
Results given in parts per million.

SAMPLE NO.	COPPER	ZINC	LEAD	MOLYBDENUM
2318	10	25	20	-1
2319	10	15	10	3
2320	15	15	-5	-1
2321	5	5	-5	2
2322	10	25	10	2
2323	5	20	-5	-1
2324	-5	20	-5	-1
2325	20	30	200	550
2326	10	25	45	7
2327	10	20	15	-1
2328	15	25	-5	-1
2329	45	130	30	1
2330	70	80	20	2
2433	5	25	10	1
2434	35	15	115	7
2435	90	75	3,000	23
2436	45	55	250	9
2437	130	85	30	-1
2438	20	45	20	-1
2439	-5	15	-5	-1
2440	15	70	30	6
2441	10	30	-5	-1
* 2442	15	50	-5	-1
2443	10	30	5	-1

Results g[illegible]n in [illegible]rts per million.

SAMPLE NO.	COPPER	ZINC	LEAD	MOLYBDENUM
2444	-5	45	-5	-1
2445	15	35	20	3
2446	50	50	35	2
2447	250	45	35	1
2448	5	15	10	-1
2449	15	35	10	-1
2450	10	25	-5	14
2451	10	25	-5	3
2452	20	25	10	35
2453	15	55	-5	3
2454	5	20	-5	-1
2455	20	15	10	2
2456	15	40	30	-1
2457	10	10	-5	-1
2458	10	50	-5	2
2459	10	20	15	10
2460	10	35	-5	14
2461	100	95	290	14
2462	50	20	15	4
2463	10	55	-5	-1
2464	10	50	5	2
2465	15	15	-5	-1
* 2466	55	100	30	2
2467	15	55	5	-1

Results given in parts per million.

SAMPLE NO.	COPPER	ZINC	LEAD	MOLYBDENUM
2468	10	25	30	-1
2469	10	35	-5	-1
2470	280	60	-5	-1
2471	20	45	-5	-1
2472	10	20	5	-1
2473	15	35	-5	-1
2474	5	15	-5	-1
2475	15	40	-5	-1
2476	10	110	5	-1
2477	5	20	5	-1
2478	-5	10	5	-1
2479	60	60	10	-1
2480	15	10	-5	-1
2481	5	30	5	-1
2482	220	55	-5	-1
2483	20	60	-5	-1
2484	65	55	260	-1
2485	5	25	-5	-1
2486	5	45	10	-1
2487	10	10	-5	-1
2488	30	20	5	-1
2489	5	55	5	-1
* 2498	5	10	-5	1

Trace Analysis

Assays

ROCKY MOUNTAIN GEOCHEMICAL LABORATORIES

519 North Washington Ave.
Phone: 445-4393
PRESCOTT, ARIZONA 86301

CHEMICAL ANALYSIS CERTIFICATE

Date September 3, 1974

Client Mr. Willard P. Leedy
Kalium Chemicals, Ltd.
P.O. Box 2441
Prescott, Arizona

Submitted by W. Leedy

Date Received 8/23/74

Report on 119 Rock Samples

Analysis SILVER, GOLD

Remarks Atomic Absorption methods used.
Results given in parts per million.
The minus (-) sign is read "less than".

Sample pulps will be saved for return.

Purchase order no. KR74-0046

Jupiter
Grid -

cc: encl.
file

REGISTERED ASSAYER
CERTIFICATE NO. 6847
EDWIN ADAM JOHNSON
Date signed 9/3/74
ARIZONA, U.S.A.

All values are reported in parts per million unless specified otherwise. A minus sign (—) is to be read "less than" and a plus sign (+) "greater than." Values in parenthesis are estimates. This analytical report is the confidential property of the above mentioned client and for the protection of this client and ourselves we reserve the right to forbid publication or reproduction of this report or any part thereof without written permission. 10,000 ppm = 1% 34.3 ppm = 1 Troy Oz. per Ton

Rock Samples---Rece ed 8/23/74
Results given in parts per million.

SAMPLE NO.	SILVER	GOLD	SAMPLE NO.	SILVER	GOLD
2245	-0.2	-0.1	2269	-0.2	-0.1
2246	1½	-0.1	2270	-0.2	-0.1
2247	-0.2	-0.1	2271	0.4	-0.1
2248	-0.2	-0.1	2272	-0.2	-0.1
2249	13	1.0	2273	-0.2	-0.1
2250	-0.2	-0.1	2274	-0.2	-0.1
2251	0.4	-0.1	2275	10	2
2252	0.6	-0.1	2276	-0.2	-0.1
2253	-0.2	-0.1	2277	0.4	-0.1
2254	1.0	-0.1	2278	-0.2	-0.1
2255	-0.2	-0.1	2279	-0.2	-0.1
2256	-0.2	-0.1	2280	-0.2	-0.1
2257	4½	0.3	2281	-0.2	-0.1
2258	0.2	-0.1	2282	-0.2	-0.1
2259	-0.2	-0.1	2283	-0.2	-0.1
2260	2	-0.1	2284	-0.2	-0.1
2261	-0.2	-0.1	2285	-0.2	-0.1
2262	-0.2	-0.1	2286	-0.2	-0.1
2263	0.2	-0.1	2287	-0.2	-0.1
2264	0.4	-0.1	2288	-0.2	-0.1
2265	-0.2	-0.1	2289	-0.2	-0.1
2266	-0.2	-0.1	2290	-0.2	-0.1
2267	-0.2	-0.1	2316	-0.2	-0.1
2268	-0.2	-0.1	2317	-0.2	-0.1

Rock Samples---Rec ved 8/23/74
Results given in parts per million.

SAMPLE NO.	SILVER	GOLD
2318	-0.2	-0.1
2319	-0.2	-0.1
2320	-0.2	-0.1
2321	-0.2	-0.1
2322	-0.2	-0.1
2323	-0.2	-0.1
2324	-0.2	-0.1
2325	5	0.8
2326	-0.2	-0.1
2327	-0.2	-0.1
2328	-0.2	-0.1
2329	0.2	-0.1
2330	2	0.5
2433	-0.2	-0.1
2434	10	0.5
2435	15	4
2436	10	1.5
2437	-0.2	-0.1
2438	-0.2	-0.1
2439	2½	-0.1
2440	-0.2	-0.1
* 2441	-0.2	-0.1
2442	-0.2	-0.1
2443	-0.2	-0.1

SAMPLE NO.	SILVER	GOLD
2444	-0.2	-0.1
2445	-0.2	-0.1
2446	5	0.5
2447	0.6	0.3
2448	-0.2	-0.1
2449	-0.2	-0.1
2450	-0.2	-0.1
2451	-0.2	-0.1
2452	0.6	-0.1
2453	-0.2	-0.1
2454	-0.2	-0.1
2455	-0.2	-0.1
2456	-0.2	-0.1
2457	-0.2	-0.1
2458	0.4	1.0
2459	-0.2	-0.1
2460	-0.2	-0.1
2461	50	4
2462	5	1.5
2463	-0.2	-0.1
2464	-0.2	-0.1
2465	-0.2	-0.1
2466	0.4	-0.1
2467	-0.2	-0.1

Roc_ Sampl ---Received 8/23/74
Results giv_n in parts per million.

SAMPLE NO.	SILVER	GOLD
2468	-0.2	-0.1
2469	-0.2	-0.1
2470	1.2	-0.1
2471	-0.2	-0.1
2472	-0.2	-0.1
2473	0.4	-0.1
2474	0.4	-0.1
2475	-0.2	-0.1
2476	-0.2	-0.1
2477	-0.2	-0.1
2478	-0.2	-0.1
2479	-0.2	-0.1
2480	-0.2	-0.1
2481	-0.2	-0.1
2482	0.2	-0.1
2483	-0.2	-0.1
2484	2	0.2
2485	-0.2	-0.1
2486	-0.2	-0.1
2487	-0.2	0.4
2488	-0.2	-0.1
2489	-0.2	-0.1
2498	-0.2	-0.1

KALIUM CHEMICALS LIMITED
DRILL HOLE RECORD

JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: SH-1 AREA: SHAFT

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-2715	5371	—	.05	111.			
2	5-10	2716	72	—	.07	64			
3	10-15	2717	73	.002	.07	35			
4	15-20	2718	74	—	.08	95			
5	20-25	2719	75	—	.02	86			
6	25-30	2720	76	—	.04	38			
7	30-35	2721	77	—	.05	53			
8	35-40	2722	78	—	.05	35			
9	40-45	2723	79	—	.05	24			
10	45-50	2724	80	—	.05	25			
11	50-55	2725	81	.001	.05	32			
12	55-60	2726	82	—	.04	27			
13	60-65	2727	83	—	.02	28			
14	65-70	2728	84	—	.11	29			
15	70-75	2729	85	—	.08	28			
16	75-80	2730	86	—	.04	22			
17	80-85	2731	87	—	.11	37			
18	85-90	2732	88	—	.04	27			
19	90-95	2733	89	.010	.26	37			
20	95-100	2734	90	.009	.30	56			
21	100-105	2735	91	.007	.20	48			
22	105-110	2736	92	.001	.05	43			
23	110-115	2737	93	.006	.12	47			
24	115-120	2738	94	.002	.11	54			
25	120-125	2739	95	.001	.14	57			
26	125-130	2740	96	.001	.11	33			
27	130-135	2741	5397	.002	.11	60			
28	135-140								
* 29	140-145								
30	145-150								

REMARKS: HOLE COMPLETED AT 135'

KALIUM CHEMICALS LIMITED
DRILL HOLE RECORD

JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: SH-2 AREA: SHAFT

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-2742	5401	.082	.56	65			
2	5-10	2743	02	.003	.46	93			
3	10-15		03						
4	15-20	2744	04	.006	.24	96			
5	20-25	2745	05	.016	.60	69			
6	25-30	2746	06	.010	.37	81			
7	30-35	2747	07	.020	.50	148			
8	35-40	2748	08	.026	.55	108			
9	40-45	2749	09	.007	.08	84			
10	45-50	2750	10	.004	.04	38			
11	50-55	2751	11	.003	.11	39			
12	55-60	2752	12	.003	.15	61			
13	60-65	2753	13	.014	.41	107			
14	65-70	2754	14	.004	.17	46			
15	70-75	2755	15	.016	.44	51			
16	75-80	2756	16	.011	.30	51			
17	80-85	2757	17	.007	.24	47			
18	85-90	2758	18	.009	.20	82			
19	90-95	2759	19	.010	.16	31			
20	95-100	2760	20	.013	.21	67			
21	100-105	2761	21	.010	.14	144			
22	105-110	2762	22	.006	.12	74			
23	110-115	2763	23	.004	.15	35			
24	115-120	2764	24	.002	.08	47			
25	120-125	2765	25	.007	.14	50			
26	125-130	2766	26	.016	.26	42			
27	130-135	2767	27	.007	.07	31			
28	135-140	2768	28	.016	.40	35			
* 29	140-145	2769	29	.018	.38	36			
30	145-150	2770	5430	.014	.31	10			

REMARKS:

KALIUM CHEMICALS LIMITED
DRILL HOLE RECORD

JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: SH-3 AREA: SHAFT

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS					
				Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-2771	5431	.019	.37	122			
2	5-10	2772	32	.009	.14	57			
3	10-15	2773	33	.006	.11	47			
4	15-20	2774	34	.006	.07	48			
5	20-25	2775	35	.018	.28	20			
6	25-30	2776	36	.009	.11	23			
7	30-35	2777	37	.006	.16	52			
8	35-40	2778	38	.021	.35	51			
9	40-45	2779	39	.014	.26	56			
10	45-50	2780	40	.009	.13	56			
11	50-55	2781	41	.004	.03	49			
12	55-60	2782	42	.160	2.10	71			
13	60-65	2783	43	.139	1.96	48			
14	65-70	2784	44	.029	.54	25			
15	70-75	2785	45	.012	.17	35			
16	75-80	2786	46	.028	.53	44			
17	80-85	2787	47	.014	.30	108			
18	85-90	2788	48	.031	.50	55			
19	90-95	2789	49	.014	.38	47			
20	95-100	2790	50	.026	.31	58			
21	100-105	2791	51	.160	3.44	70			
22	105-110	2792	52	.037	.83	47			
23	110-115	2793	53	.035	.87	33			
24	115-120	2794	54	.299	4.20	50			
25	120-125	2795	55	.136	3.62	37			
26	125-130	2796	56	.025	.67	47			
27	130-135	2797	57	.005	.14	45			
28	135-140	2798	58	.002	.19	63			
29	140-145	2799	59	.016	.50	112			
30	145-150	2800	5460	.018	.47	50			

REMARKS:

MALIUM CHEMICALS LIMITED

DRILL HOLE RECORD

JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: SH-4 AREA: SHAFT

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS					
				Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-2801	5461	.015	.32	76			
2	5-10	2802	62	.006	.21	101			
3	10-15	2803	63	.007	.16	106			
4	15-20	2804	64	.008	.25	59			
5	20-25	2805	65	.005	.18	127			
6	25-30	2806	66	.004	.15	64			
7	30-35	2807	67	.010	.26	72			
8	35-40	2808	68	.015	.26	66			
9	40-45	2809	69	.010	.16	53			
10	45-50	2810	70	.042	.67	24			
11	50-55	2811	71	.009	.16	65			
12	55-60	2812	72	.003	.09	60			
13	60-65	2813	73	.001	.09	16			
14	65-70	2814	74	.008	.17	34			
15	70-75	2815	75	.008	.16	52			
16	75-80	2816	76	.008	.15	44			
17	80-85	2817	77	.027	.46	46			
18	85-90	2818	78	.022	.38	46			
19	90-95	2819	79	.010	.16	52			
20	95-100	2820	80	.012	.16	65			
21	100-105	2821	81	.012	.35	44			
22	105-110	2822	82	.040	.57	35			
23	110-115	2823	83	.014	.30	79			
24	115-120	2824	84	.007	.20	61			
25	120-125	2825	85	.006	.15	72			
26	125-130	2826	86	.004	.12	47			
27	130-135	2827	87	.010	.25	67			
28	135-140	2828	88	.008	.22	72			
29	140-145	2829	89	.006	.16	72			
* 30	145-150	2830	5490	.007	.25	69			

REMARKS:

KALIUM CHEMICALS LIMITED
DRILL HOLE RECORD

JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: SH-5 AREA: SHAFT

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-2831	5491	.001	.06	36			
2	5-10	2832	92	.001	.02	16			
3	10-15	2833	93	.001	.04	16			
4	15-20	2834	94	.001	.05	11			
5	20-25	2835	95	—	.05	9			
6	25-30	2836	96	.001	.02	9			
7	30-35	2837	97	.001	.05	17			
8	35-40	2838	98	.001	.04	13			
9	40-45	2839	99	.001	.02	21			
10	45-50	2840	5500	.001	.05	17			
11	50-55	2841	01	—	.06	30			
12	55-60	2842	02	—	.04	14			
13	60-65	2843	03	—	—	12			
14	65-70	2844	04	.001	.05	12			
15	70-75	2845	05	—	.13	13			
16	75-80	2846	06	.005	.11	13			
17	80-85	2847	07	.003	.08	16			
18	85-90	2848	08	—	.08	14			
19	90-95	2849	09	.001	.02	36			
20	95-100	2850	10	.001	.11	38			
21	100-105	2851	11	—	.08	16			
22	105-110	2852	12	.001	.06	16			
23	110-115	2853	13	.001	.04	13			
24	115-120	2854	14	.002	.02	18			
25	120-125	2855	15	.002	.02	18			
26	125-130	2856	16	.008	.09	180			
27	130-135	2857	17	.004	.02	128			
28	135-140	2858	18	.003	.07	58			
29	140-145	2859	19	.001	.05	36			
30	145-150	2860	5520	.001	.05	32			

REMARKS:

KALIUM CHEMICALS LIMITED
DRILL HOLE RECORD

JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: SH-6 AREA: SHAFT

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-2861	5521	.002	.05	19			
2	5-10	2862	22	.001	.05	16			
3	10-15	2863	23	–	.05	17			
4	15-20	2864	24	.013	.16	11			
5	20-25	2865	25	.004	.05	12			
6	25-30	2866	26	.004	.02	12			
7	30-35	2867	27	.004	.05	15			
8	35-40	2868	28	.002	.04	15			
9	40-45	2869	29	–	.04	11			
10	45-50	2870	30	.004	.02	22			
11	50-55	2871	31	.014	.14	23			
12	55-60	2872	32	.055	.44	16			
13	60-65	2873	33	.012	.07	13			
14	65-70	2874	34	.004	.02	9			
15	70-75	2875	35	.004	.02	38			
16	75-80	2876	36	.005	.02	14			
17	80-85	2877	37	.005	.02	18			
18	85-90	2878	38	.002	.09	13			
19	90-95	2879	39	.003	.04	17			
20	95-100	2880	40	.001	.03	10			
21	100-105	2881	41	.001	.08	15			
22	105-110	2882	42	.001	.01	14			
23	110-115	2883	43	.001	.07	23			
24	115-120	2884	44	.002	.09	55			
25	120-125	2885	45	.001	.06	20			
26	125-130	2886	46	.002	.04	19			
27	130-135	2887	47	.003	.04	22			
28	135-140	2888	48	.001	.03	22			
29	140-145	2889	49	–	–	28			
30	145-150	2890	5550	–	.06	20			

REMARKS:

KALIUM CHEMICAL LIMITED
DRILL HOLE RECORD

JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: TC-1 AREA: THOMAS CANYON

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS					
				Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-2061	5551	–	–	25	128	270	–
2	5-10	2062	52	–	–	16	92	60	–
3	10-15	2063	53	–	–	20	50	160	–
4	15-20	2064	54	–	–	24	64	80	–
5	20-25	2065	55	–	.02	30	132	160	–
6	25-30	2066	56	–	.01	32	110	80	–
7	30-35	2067	57	–	.01	38	134	130	–
8	35-40	2068	58	–	.01	34	116	170	–
9	40-45	2069	59	–	.01	30	140	80	–
10	45-50	2070	60	–	.01	18	132	60	–
11	50-55	2071	61	–	.01	21	80	240	–
12	55-60	2072	62	–	.01	13	62	110	–
13	60-65	2073	63	–	.01	21	58	100	–
14	65-70	2074	64	–	.01	26	50	55	–
15	70-75	2075	65	–	–	13	104	140	–
16	75-80	2076	66	–	–	26	150	120	–
17	80-85	2077	67	–	–	25	54	130	–
18	85-90	2078	68	–	–	15	38	100	–
19	90-95	2079	69	–	–	12	36	110	–
20	95-100	2080	70	–	–	10	40	95	–
21	100-105								
22	105-110								
23	110-115								
24	115-120								
25	120-125								
26	125-130								
27	130-135								
28	135-140								
29	140-145								
30	145-150								

REMARKS:

HIT WATER AT 100'

Kinium Chemical - Limited
Drill Hole Record

Jupiter Project - Pima Co. Arizona

Hole Number: TC-2 Area: Thomas Canyon

#	Depth	KML Number	Project Number	Assays Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-2081	5581	-	.01	300	56	140	-
2	5-10	2082	82	-	.01	60	82	50	-
3	10-15								
4	15-20								
5	20-25								
6	25-30								
7	30-35								
8	35-40								
9	40-45								
10	45-50								
11	50-55								
12	55-60								
13	60-65								
14	65-70								
15	70-75								
16	75-80								
17	80-85								
18	85-90								
19	90-95								
20	95-100								
21	100-105								
22	105-110								
23	110-115								
24	115-120								
25	120-125								
26	125-130								
27	130-135								
28	135-140								
29	140-145								
* 30	145-150								

Remarks:

Hit water at 10'

KALIUM CHEMICAL LIMITED
DRILL HOLE RECORD

JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: TC-3 AREA: THOMAS CANYON

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-2083	5611	-	.01	17	78	40	-
2	5-10	2084	12	-	.01	10	84	50	-
3	10-15	2085	13	-	.01	21	122	350	-
4	15-20	2086	14	-	.01	35	94	230	-
5	20-25	2087	15	-	.01	14	116	240	-
6	25-30	2088	16	-	.01	14	128	130	-
7	30-35	2089	17	-	.01	15	106	120	-
8	35-40	2090	18	-	.01	11	104	70	-
9	40-45	2091	19	-	.01	28	102	110	-
10	45-50	2092	20	-	.01	21	86	120	-
11	50-55	2093	21	-	.01	17	104	180	-
12	55-60	2094	22	-	.01	27	130	100	-
13	60-65	2095	23	-	.01	44	140	120	-
14	65-70	2096	24	-	.01	29	120	100	-
15	70-75	2097	25	-	.01	33	160	240	-
16	75-80								
17	80-85								
18	85-90								
19	90-95								
20	95-100								
21	100-105								
22	105-110								
23	110-115								
24	115-120								
25	120-125								
26	125-130								
27	130-135								
28	135-140								
29	140-145								
30	145-150								

REMARKS:
HIT WATER AT 75'

KALIUM CHEMICALS LIMITED
DRILL HOLE RECORD

JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: TC-4 AREA: THOMAS CANYON

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS					
				Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-2098	5641	-	.01	24	84	90	-
2	5-10	2099	42	-	.01	33	90	50	-
3	10-15	2100	43	-	.01	25	82	60	-
4	15-20	2101	44	-	-	13	50	95	-
5	20-25	2102	45	-	-	14	60	170	-
6	25-30	2103	46	-	-	15	62	90	-
7	30-35	2104	47	-	-	13	58	160	-
8	35-40	2105	48	-	-	14	60	60	-
9	40-45	2106	49	-	.01	22	240	330	-
10	45-50	2107	50	-	.01	40	304	430	-
11	50-55	2108	51	-	-	20	82	200	-
12	55-60	2109	52	-	.01	15	40	90	-
13	60-65	2110	53	-	-	25	74	410	-
14	65-70	2111	54	-	-	35	78	180	-
15	70-75	2112	55	-	-	20	46	120	-
16	75-80	2113	56	-	-	23	46	110	-
17	80-85	2114	57	-	-	14	36	200	-
18	85-90	2115	58	-	-	14	34	140	-
19	90-95	2116	59	-	-	19	30	240	-
20	95-100	2117	60	-	-	16	28	150	-
21	100-105	2118	61	-	-	21	36	270	-
22	105-110	2119	62	-	-	19	28	140	-
23	110-115								
24	115-120								
25	120-125								
26	125-130								
27	130-135								
28	135-140								
29	140-145								
30	145-150								

REMARKS:

HIT WATER AT 110'

KALIUM CHEMICALS LIMITED
DRILL HOLE RECORD

JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: TC-5 AREA: THOMAS CANYON

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-2120	5671	–	–	63	60	120	–
2	5-10	2121	72	–	–	71	30	40	–
3	10-15	2122	73	–	–	156	26	45	–
4	15-20	2123	74	–	–	63	26	75	–
5	20-25								
6	25-30								
7	30-35								
8	35-40								
9	40-45								
10	45-50								
11	50-55								
12	55-60								
13	60-65								
14	65-70								
15	70-75								
16	75-80								
17	80-85								
18	85-90								
19	90-95								
20	95-100								
21	100-105								
22	105-110								
23	110-115								
24	115-120								
25	120-125								
26	125-130								
27	130-135								
28	135-140								
29	140-145								
30	145-150								

REMARKS:

HIT WATER AT 20'

KALIUM CHEMICALS LIMITED
DRILL HOLE RECORD

JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: TC-6 AREA: THOMAS CANYON

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-2124	5675	–	–	31	27	75	–
2	5-10	2125	76	–	–	21	22	25	–
3	10-15	2126	77	–	–	33	30	80	–
4	15-20	2127	78	–	–	21	44	70	–
5	20-25								
6	25-30								
7	30-35								
8	35-40								
9	40-45								
10	45-50								
11	50-55								
12	55-60								
13	60-65								
14	65-70								
15	70-75								
16	75-80								
17	80-85								
18	85-90								
19	90-95								
20	95-100								
21	100-105								
22	105-110								
23	110-115								
24	115-120								
25	120-125								
26	125-130								
27	130-135								
* 28	135-140								
29	140-145								
30	145-150								

REMARKS:

HIT WATER AT 20'

KALIUM CHEMICALS LIMITED
DRILL HOLE RECORD

JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: J-1 AREA: JUPITER

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS Au	Ag	Cu	Zn	Pb	Mo
1	0-5	E-C-1803	4501	.001	.06	21			
2	5-10	1804	02	—	.06	21			
3	10-15	1805	03	—	.03	25			
4	15-20	1806	04	—	.03	16			
5	20-25	1807	05	—	.03	57			
6	25-30	1955	06	—	.03	51			
7	30-35	1956	07	—	—	42			
8	35-40	1808	08	—	.03	65			
9	40-45	1809	09	—	.06	37			
10	45-50	1810	10	—	.06	32			
11	50-55	1811	11	.001	.03	39			
12	55-60	1812	12	—	.09	35			
13	60-65	1813	13	.003	.12	30			
14	65-70	1957	14	—	—	19			
15	70-75	1814	15	—	.06	24			
16	75-80	1815	16	—	.32	27			
17	80-85	1816	17	—	.06	34			
18	85-90	1817	18	.001	.09	29			
19	90-95	1818	19	—	.12	37			
20	95-100	1819	20	—	.06	36			
21	100-105	1820	21	—	.03	46			
22	105-110	1821	22	—	.03	19			
23	110-115	1822	23	—	.03	26			
24	115-120	1823	24	—	.03	25			
25	120-125	1824	25	.005	.17	30			
26	125-130	1825	26	.014	.23	72			
27	130-135	1826	27	.019	.32	47			
28	135-140	1827	28	.004	.23	48			
29	140-145	1828	29	.005	.20	61			
30	145-150	1829	4530	.002	.12	46			

REMARKS:

KALIUM CHEMICALS LIMITED
DRILL HOLE RECORD

JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: J-2 AREA: JUPITER

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-1958	4531	.001	.08	44			
2	5-10	1959	32	—	.06	55			
3	10-15	1960	33	.002	.03	58			
4	15-20	1830	34	.001	.06	112			
5	20-25	1961	35	.001	.03	70			
6	25-30	1962	36	—	—	33			
7	30-35	1963	37	—	—	19			
8	35-40	1964	38	—	.03	24			
9	40-45	1965	39	.001	.03	36			
10	45-50	1966	40	—	.03	23			
11	50-55	1831	41	.005	.14	24			
12	55-60	1967	42	.003	.06	40			
13	60-65	1968	43	.006	.09	30			
14	65-70	1832	44	.023	.09	28			
15	70-75	1969	45	.008	.14	94			
16	75-80	1833	46	.003	.14	75			
17	80-85	1834	47	.034	.67	57			
18	85-90	1835	48	.041	.84	52			
19	90-95	1970	49	.015	.29	64			
20	95-100	1971	50	.007	.14	55			
21	100-105	1972	51	.003	.20	35			
22	105-110	1836	52	.009	.12	57			
23	110-115	1973	53	.007	.12	65			
24	115-120	1974	54	.014	.17	44			
25	120-125	1975	55	.007	.06	51			
26	125-130	1976	56	.005	.06	41			
27	130-135	1837	57	.008	.09	49			
* 28	135-140	1838	58	.002	.09	67			
29	140-145	1977	59	.011	.17	53			
30	145-150	1978	4560	.023	.41	31			

REMARKS:

KALIUM CHEMICALS LIMITED
DRILL HOLE RECORD

JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: J-3 AREA: JUPITER

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-1839	4561	.003	.12	78			
2	5-10	1840	62	.010	.20	64			
3	10-15	1841	63	.014	.17	63			
4	15-20	1842	64	.009	.14	47			
5	20-25	1843	65	.008	.14	58			
6	25-30	1844	66	.003	.12	44			
7	30-35	1845	67	.015	.26	66			
8	35-40	1846	68	.016	.29	70			
9	40-45	1847	69	.019	.52	53			
10	45-50	1848	70	.008	.20	57			
11	50-55	1849	71	.007	.14	72			
12	55-60	1850	72	.006	.12	69			
13	60-65	1979	73	.011	.17	38			
14	65-70	1851	74	.021	.38	58			
15	70-75	1852	75	.004	.29	68			
16	75-80	1853	76	.006	.06	30			
17	80-85	1854	77	.006	.06	32			
18	85-90	1855	78	.008	.12	48			
19	90-95	1856	79	.003	.14	102			
20	95-100	1857	80	.002	.03	53			
21	100-105	1858	81	.001	.06	28			
22	105-110	1859	82	—	.03	24			
23	110-115	1860	83	.003	.14	44			
24	115-120	1861	84	.095	1.45	33			
25	120-125	1862	85	.005	.12	44			
26	125-130	1863	86	.018	.32	105			
27	130-135	1864	87	.045	.70	78			
28	135-140	1865	88	.045	.64	61			
29	140-145	1866	89	.017	.29	45			
30	145-150	1867	4590	.014	.20	82			

REMARKS:

KALIUM CHEMICALS LIMITED
DRILL HOLE RECORD

JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: J-4 AREA: JUPITER

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS					
				Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-1868	4591	.006	.09	36			
2	5-10	1869	92	.004	.06	39			
3	10-15	1870	93	.004	.06	41			
4	15-20	1871	94	.002	.06	38			
5	20-25	1872	95	.002	.03	27			
6	25-30	1873	96	.001	.03	24			
7	30-35	1874	97	.001	.03	29			
8	35-40	1875	98	—	.03	26			
9	40-45	1876	99	.002	.03	24			
10	45-50	1877	4600	.001	.03	28			
11	50-55	1878	01	.001	.03	24			
12	55-60	1879	02	—	.03	23			
13	60-65	1880	03	.002	.03	18			
14	65-70	1881	04	.001	.03	27			
15	70-75	1882	05	.003	.03	21			
16	75-80	1883	06	.007	.03	21			
17	80-85	1884	07	.008	.03	21			
18	85-90	1885	08	.003	.03	20			
19	90-95	1886	09	.003	.03	28			
20	95-100	1887	10	.003	.03	18			
21	100-105	1888	11	.003	.03	26			
22	105-110	1889	12	.001	.03	30			
23	110-115	1890	13	.002	.03	19			
24	115-120	1891	14	.005	.06	46			
25	120-125	1892	15	.021	.35	94			
26	125-130	1893	16	.008	.09	78			
27	130-135	1894	17	.012	.06	35			
28	135-140	1895	18	.035	.99	73			
29	140-145	1896	19	.004	.06	34			
30	145-150	1897	4620	.008	.24	53			

REMARKS:

KALIUM CHEMICALS LIMITED
DRILL HOLE RECORD

JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: J-5 AREA: JUPITER

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-1898	4621	.002	.06	37			
2	5-10	1899	22	.001	.03	13			
3	10-15	1900	23	.001	.03	12			
4	15-20	1901	24	.001	.03	16			
5	20-25	1902	25	.002	.03	25			
6	25-30	1903	26	.002	.03	33			
7	30-35	1904	27	.002	.03	30			
8	35-40	1905	28	.002	.03	23			
9	40-45	1906	29	.001	.03	21			
10	45-50	1907	30	—	.03	24			
11	50-55	1908	31	.001	.03	23			
12	55-60	1909	32	.001	.03	30			
13	60-65	1910	33	—	.03	42			
14	65-70	1911	34	.004	.03	60			
15	70-75	1912	35	.002	.09	29			
16	75-80	1913	36	.002	.06	18			
17	80-85	1914	37	.007	.24	288			
18	85-90	1915	38	.002	.09	22			
19	90-95	1916	39	.001	.06	22			
20	95-100	1917	40	—	.06	16			
21	100-105	1918	41	—	.06	29			
22	105-110	1919	42	—	.06	14			
23	110-115	1920	43	.002	.12	21			
24	115-120	1921	44	.011	.14	40			
25	120-125	1922	45	.015	.24	44			
26	125-130	1923	46	.002	.06	40			
27	130-135	1924	4647	.010	.17	55			
28	135-140								
29	140-145								
30	145-150								

REMARKS:

KALIUM CHEMICALS LIMITED
DRILL HOLE RECORD

JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: J-6 AREA: JUPITER

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS					
				Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-1925	4651	.002	.06	41			
2	5-10	1926	52	—	.03	26			
3	10-15	1927	53	—	.03	31			
4	15-20	1928	54	—	.03	16			
5	20-25	1929	55	.001	.06	39			
6	25-30	1930	56	.002	.03	64			
7	30-35	1931	57	.001	.06	44			
8	35-40	1932	58	.001	.06	35			
9	40-45	1933	59	.001	.06	35			
10	45-50	1934	60	.004	.03	43			
11	50-55	1935	61	.015	.06	66			
12	55-60	1936	62	.012	.17	47			
13	60-65	1937	63	.010	.09	57			
14	65-70	1938	64	.005	.06	49			
15	70-75	1939	65	.005	.06	48			
16	75-80	1940	66	.006	.09	35			
17	80-85	1941	67	.006	.06	54			
18	85-90	1942	68	.007	.06	23			
19	90-95	1943	69	.002	.09	21			
20	95-100	1944	70	.006	.03	19			
21	100-105	1945	71	.008	.06	53			
22	105-110	1946	72	.011	.09	40			
23	110-115	1947	73	.016	.14	28			
24	115-120	1948	74	.010	.14	19			
25	120-125	1949	75	.020	.12	21			
26	125-130	1950	76	.027	.29	25			
27	130-135	1951	77	.005	.44	43			
28	135-140	1952	78	.005	.09	32			
29	140-145	1953	79	.006	.09	50			
30	145-150	1954	4680	.009	.14	38			

REMARKS:

KALIUM CHEMICALS LIMITED
DRILL HOLE RECORD

JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: J-7 AREA: JUPITER

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS					
				Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-2128	4681	.028	.24	55			
2	5-10	2129	82	.006	.17	40			
3	10-15	2130	83	.166	1.71	30			
4	15-20	1980	84	.056	.70	24			
5	20-25	1981	85	.057	.93	35			
6	25-30	2131	86	.046	.52	45			
7	30-35	1982	87	.013	.17	31			
8	35-40	1983	88	.008	.12	16			
9	40-45	1984	89	.007	.12	25			
10	45-50	2132	90	.001	.06	21			
11	50-55	2133	91	.002	.09	24			
12	55-60	2134	92	—	.06	26			
13	60-65	1985	93	.002	.06	17			
14	65-70	2135	94	.002	.09	25			
15	70-75	2136	95	.002	.03	23			
16	75-80	1986	96	.003	.09	50			
17	80-85	1987	97	.003	.09	41			
18	85-90	2137	98	.007	.14	44			
19	90-95	2138	99	.007	.17	36			
20	95-100	2139	4700	.004	.12	29			
21	100-105	2140	01	.002	.09	42			
22	105-110	2141	02	.009	.17	35			
23	110-115	1988	03	.011	.26	38			
24	115-120	1989	04	.011	.17	61			
25	120-125	1990	05	.024	.44	31			
26	125-130	1991	06	.025	.41	43			
27	130-135	1992	07	.009	.17	69			
28	135-140	1993	08	.021	.35	45			
29	140-145	2142	09	.006	.14	32			
30	145-150	2143	4710	.006	.14	39			

REMARKS:

KALIUM CHEMICALS LIMITED
DRILL HOLE RECORD

JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: J-8 AREA: JUPITER

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS					
				Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-2144	4711	.006	.06	50			
2	5-10	2145	12	.005	.06	48			
3	10-15	2146	13	.002	.09	33			
4	15-20	2147	14	.006	.09	37			
5	20-25	2148	15	.006	.09	36			
6	25-30	2149	16	.006	.09	35			
7	30-35	2150	17	.008	.12	29			
8	35-40	2151	18	.008	.09	39			
9	40-45	2152	19	.026	.35	44			
10	45-50	2153	20	.013	.14	42			
11	50-55	2154	21	.009	.14	47			
12	55-60	2155	22	.015	.23	32			
13	60-65	2156	23	.016	.32	35			
14	65-70	2157	24	.016	.32	37			
15	70-75	2158	25	.004	.12	36			
16	75-80	2159	26	.002	.12	30			
17	80-85	2160	27	.014	.26	35			
18	85-90	2160	28	.022	.41	45			
19	90-95	2162	29	.012	.20	45			
20	95-100	2163	30	.042	.70	39			
21	100-105	2164	31	.028	.46	58			
22	105-110	2165	32	.014	.26	67			
23	110-115	1994	33	.042	.64	34			
24	115-120	1995	34	.065	1.01	49			
25	120-125	2166	35	.035	.58	52			
26	125-130	2167	36	.008	.14	42			
27	130-135	2168	37	.008	.14	35			
28	135-140	2169	38	.006	.09	47			
29	140-145	2170	39	.007	.12	60			
30	145-150	1996	4740	.008	.12	52			

REMARKS:

KALIUM CHEMICALS LIMITED
DRILL HOLE RECORD

JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: J-9 AREA: JUPITER

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-1997	4741	.007	.06	39			
2	5-10	1998	42	.012	.14	44			
3	10-15	2171	43	.009	.05	42			
4	15-20	1999	44	.009	.14	41			
5	20-25	2000	45	.012	.17	54			
6	25-30	2001	46	.023	.32	77			
7	30-35	2002	47	.042	.72	48			
8	35-40	2003	48	.038	.67	55			
9	40-45	2004	49	.042	.72	38			
10	45-50	2005	50	.016	.26	49			
11	50-55	2006	51	.008	.17	72			
12	55-60	2172	52	.008	.23	58			
13	60-65	2007	53	.016	.29	79			
14	65-70	2008	54	.002	.12	45			
15	70-75	2173	55	.004	.12	36			
16	75-80	2009	56	.011	.17	56			
17	80-85	2174	57	.074	1.02	57			
18	85-90	2010	58	.084	1.07	80			
19	90-95	2175	59	.036	.46	60			
20	95-100	2176	60	.007	.12	110			
21	100-105	2011	61	.088	1.33	95			
22	105-110	2177	62	.013	.20	79			
23	110-115	2178	63	.085	1.07	440			
24	115-120	2012	64	.027	.29	154			
25	120-125	2179	65	.042	.49	156			
26	125-130	2013	66	.097	1.22	236			
* 27	130-135	2014	67	.069	.75	162			
28	135-140								
29	140-145								
30	145-150								

REMARKS:

KALIUM CHEMICALS LIMITED
DRILL HOLE RECORD

JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: J-10 AREA: JUPITER

DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS					
			Au	Ag	Cu	Zn	Pb	Mo
0-5	EC-2015	4771	.044	.52	65			
5-10	2016	72	.016	.17	70			
10-15	2180	73	.006	.09	164			
15-20	2181	74	.031	.32	78			
20-25	2182	75	.006	.17	102			
25-30	2183	76	.012	.20	110			
30-35	2184	77	.006	.17	66			
35-40	2185	78	.022	.35	97			
40-45	2186	79	.005	.14	94			
45-50	2187	80	.013	.26	67			
50-55	2188	81	.010	.20	108			
55-60	2189	82	.007	.12	53			
60-65	2190	83	.021	.23	65			
65-70	2191	84	.008	.17	49			
70-75	2192	85	.002	.06	172			
75-80	2193	86	.006	.09	92			
80-85	2194	87	.005	.14	94			
85-90	2195	88	.005	.06	42			
90-95	2196	89	.007	.09	52			
95-100	2197	90	.007	.14	59			
100-105	2198	91	.005	.06	42			
105-110	2199	92	.002	.06	32			
110-115	2200	93	.008	.12	46			
115-120	2201	94	.002	.06	1400			
120-125	2202	95	.006	.12	52			
125-130	2203	96	.005	.09	57			
130-135	2204	97	.008	.14	55			
135-140	2205	98	.008	.06	73			
140-145	2206	99	.008	.06	82			
145-150	2207	4800	.009	.14	65			

REMARKS:

KALIUM CHEMICALS LIMITED
DRILL HOLE RECORD

JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: J-11 AREA: JUPITER

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS					
				Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-2208	4801	.005	.09	67			
2	5-10	2209	02	.013	.17	53			
3	10-15	2210	03	.009	.26	134			
4	15-20	2211	04	.135	1.83	21			
5	20-25	2212	05	.029	.67	35			
6	25-30	2017	06	.017	.35	75			
7	30-35	2213	07	.012	.20	46			
8	35-40	2214	08	.014	.38	35			
9	40-45	2018	09	.010	.17	39			
10	45-50	2019	10	.045	.70	48			
11	50-55	2020	11	.010	.20	53			
12	55-60	2021	12	.018	.29	78			
13	60-65	2022	13	.022	.32	70			
14	65-70	2023	14	.028	.49	58			
15	70-75	2024	15	.012	.12	45			
16	75-80	2025	16	.015	.32	73			
17	80-85	2026	17	.006	.12	37			
18	85-90	2027	18	.008	.14	43			
19	90-95	2215	19	.007	.15	50			
20	95-100	2216	20	.017	.23	144			
21	100-105	2217	21	.009	.15	48			
22	105-110	2218	22	.009	.15	79			
23	110-115	2219	23	.015	.20	68			
24	115-120	2028	24	.015	.29	35			
25	120-125	2029	25	.003	.09	29			
26	125-130	2030	26	.002	.09	25			
27	130-135	2220	27	.013	.20	34			
28	135-140	2031	28	.005	.12	39			
29	140-145	2221	29	.006	.09	48			
30	145-150	2222	4830	.007	.14	58			

REMARKS:

KALIUM CHEMICALS LIMITED
DRILL HOLE RECORD

JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: J-12 AREA: JUPITER

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS					
				Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-2223	4831	.031	.17	45			
2	5-10	2224	32	.017	.20	63			
3	10-15	2225	33	.031	.46	84			
4	15-20	2226	34	.020	.35	68			
5	20-25	2227	35	.149	4.44	128			
6	25-30	2228	36	.038	.58	56			
7	30-35	2229	37	.048	.58	118			
8	35-40	2230	38	.024	.38	76			
9	40-45	2231	39	.009	.20	55			
10	45-50	2232	40	.007	.12	31			
11	50-55	2233	41	.014	.17	46			
12	55-60	2234	42	.046	.99	51			
13	60-65	2235	43	.016	.20	74			
14	65-70	2236	44	.005	.09	40			
15	70-75	2237	45	.016	.17	50			
16	75-80	2238	46	.010	.17	50			
17	80-85	2239	47	.015	.17	53			
18	85-90	2240	48	.005	.06	25			
19	90-95	2241	49	.007	.09	78			
20	95-100	2242	50	.017	.26	41			
21	100-105	2243	51	.028	.44	68			
22	105-110	2244	52	.010	.15	96			
23	110-115	2245	53	.021	.29	36			
24	115-120	2246	54	.024	.29	17			
25	120-125	2247	55	.020	.23	63			
26	125-130	2248	56	.008	.12	30			
27	130-135	2249	57	.007	.09	33			
28	135-140	2250	58	.002	.03	16			
29	140-145	2251	59	.008	.09	24			
30	145-150	2252	4860	.016	.23	28			

REMARKS:

KALIUM CHEMICALS LIMITED
DRILL HOLE RECORD

JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: J-13 AREA: JUPITER

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS					
				Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-2253	4861	.022	.38	66			
2	5-10	2254	62	.014	.32	52			
3	10-15	2255	63	.006	.26	71			
4	15-20	2256	64	.007	.17	38			
5	20-25	2257	65	.007	.17	40			
6	25-30	2258	66	.041	.41	80			
7	30-35	2259	67	.005	.09	31			
8	35-40	2260	68	.010	.17	28			
9	40-45	2261	69	.003	.09	41			
10	45-50	2262	70	.008	.14	32			
11	50-55	2263	71	.007	.12	72			
12	55-60	2264	72	.014	.26	41			
13	60-65	2265	73	.003	.12	52			
14	65-70	2266	74	.006	.12	41			
15	70-75	2267	75	.003	.12	47			
16	75-80	2268	76	.002	.09	41			
17	80-85	2269	77	.007	.17	59			
18	85-90	2270	78	.002	.09	25			
19	90-95	2271	79	.003	.06	28			
20	95-100	2272	80	.002	.06	41			
21	100-105	2273	81	.001	.06	37			
22	105-110	2274	82	.001	.03	18			
23	110-115	2275	83	.001	.03	21			
24	115-120	2276	84	—	.03	19			
25	120-125	2277	85	.002	.03	22			
26	125-130	2278	86	.002	.06	17			
27	130-135	2279	87	.010	.14	21			
28	135-140	2280	88	.014	.17	20			
29	140-145	2281	89	.002	.06	21			
30	145-150	2282	4890	.003	.06	20			

REMARKS:

KALIUM CHEMICALS LIMITED
DRILL HOLE RECORD

JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: J-14 AREA: JUPITER

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS					
				Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-2283	4891	.005	.09	40			
2	5-10	2284	92	.003	.09	35			
3	10-15	2285	93	.009	.26	49			
4	15-20	2286	94	.007	.12	146			
5	20-25	2287	95	.012	.20	69			
6	25-30	2288	96	.009	.12	58			
7	30-35	2289	97	.006	.12	46			
8	35-40	2290	98	.015	.26	61			
9	40-45	2291	99	.026	.12	49			
10	45-50	2292	4900	.002	.44	42			
11	50-55	2293	01	.002	.03	20			
12	55-60	2294	02	.001	.03	13			
13	60-65	2295	03	—	.03	17			
14	65-70	2296	04	.001	.03	19			
15	70-75	2297	05	.002	.06	18			
16	75-80	2298	06	.002	.03	22			
17	80-85	2299	07	.001	.03	20			
18	85-90	2300	08	.001	.06	70			
19	90-95	2301	09	.005	.09	84			
20	95-100	2302	10	.013	.20	26			
21	100-105	2303	11	.009	.17	50			
22	105-110	2304	12	.005	.06	65			
23	110-115	2305	13	.001	.03	23			
24	115-120	2306	14	.039	.49	39			
25	120-125	2032	15	.002	.06	32			
26	125-130	2033	16	.002	.06	35			
27	130-135	2034	17	—	.06	33			
28	135-140	2307	18	.002	.09	36			
29	140-145	2308	19	.004	.09	23			
30	145-150	2035	4920	.016	.14	31			

REMARKS:

KALIUM CHEMICALS LIMITED
DRILL HOLE RECORD

JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: J-15 AREA: JUPITER

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS					
				AU	AG	CU	ZN	PB	M
1	0-5	EC-2036	4921	.021	.17	74			
2	5-10	-2037	22	.003	.06	50			
3	10-15	2038	23	.002	.06	31			
4	15-20	2039	24	—	.06	40			
5	20-25	2040	25	.002	.09	80			
6	25-30	2041	26	.002	.09	37			
7	30-35	2042	27	—	.06	55			
8	35-40	2043	28	.015	.20	31			
9	40-45	2044	29	.002	.06	43			
10	45-50	2045	30	.001	.06	39			
11	50-55	2046	31	.001	.09	55			
12	55-60	2047	32	.001	.09	32			
13	60-65	2048	33	.007	.09	35			
14	65-70	2049	34	—	.06	34			
15	70-75	2050	35	.001	.06	37			
16	75-80	2051	36	.005	.09	30			
17	80-85	2052	37	—	.06	34			
18	85-90	2053	38	—	.06	33			
19	90-95	2054	39	—	.06	28			
20	95-100	2055	40	—	.06	23			
21	100-105	2056	41	—	.03	23			
22	105-110	2057	42	—	.03	23			
23	110-115	2058	43	.001	.03	44			
24	115-120	2059	44	.002	.06	42			
25	120-125	2309	45	.003	.06	71			
26	125-130	2060	46	.001	.03	40			
* 27	130-135	2310	47	.002	.09	20			
28	135-140	2311	48	.001	.03	32			
29	140-145	2312	4949	.004	.09	52			
30	145-150								

REMARKS: [illegible] AT 145'

KALIUM CHEMICALS LIMITED
DRILL HOLE RECORD

JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: J-16 AREA: JUPITER

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-	4951						
2	5-10	2313	52	.049	.29	78			
3	10-15	2314	53	.028	.32	64			
4	15-20	2315	54	.008	.14	97			
5	20-25	2316	55	.009	.17	154			
6	25-30	2317	56	.005	.14	29			
7	30-35	2318	57	.030	.49	19			
8	35-40	2319	58	.007	.12	15			
9	40-45	2320	59	.002	.06	12			
10	45-50	2321	60	.008	.20	28			
11	50-55	2322	61	.004	.14	16			
12	55-60	2323	62	.003	.09	25			
13	60-65	2324	63	.022	.29	18			
14	65-70	2325	64	.015	.20	27			
15	70-75	2326	65	.003	.12	58			
16	75-80	2327	66	.007	.09	60			
17	80-85	2328	67	.007	.14	53			
18	85-90	2329	68	.003	.12	68			
19	90-95	2330	69	.006	.20	89			
20	95-100	2331	70	.003	.14	49			
21	100-105	2332	71	.001	.06	40			
22	105-110	2333	72	.002	.06	35			
23	110-115	2334	73	.006	.14	52			
24	115-120	2335	74	.013	.29	71			
25	120-125	2336	75	.007	.20	144			
26	125-130	2337	76	.022	.38	30			
27	130-135	2338	77	.023	.47	51			
28	135-140	2339	78	.009	.20	61			
29	140-145	2340	79	.008	.20	40			
30	145-150	2341	4980	.002	.17	30			

REMARKS:

KALIUM CHEMICALS LIMITED
DRILL HOLE RECORD

JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: J-17 AREA: JUPITER

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-2342	4981	.122	.93	68			
2	5-10	2343	82	.079	1.33	64			
3	10-15	2344	83	.013	.23	130			
4	15-20	2345	84	.009	.20	94			
5	20-25	2346	85	.008	.17	124			
6	25-30	2347	86	.019	.64	120			
7	30-35	2348	87	.006	.12	97			
8	35-40	2349	88	.023	.43	67			
9	40-45	2350	89	.013	.20	79			
10	45-50	2351	90	.012	.17	61			
11	50-55	2352	91	.017	.20	49			
12	55-60	2353	92	.013	.17	65			
13	60-65	2354	93	.010	.14	52			
14	65-70	2355	94	.030	.34	45			
15	70-75	2356	95	.009	.06	51			
16	75-80	2357	96	.013	.20	94			
17	80-85	2358	97	.007	.06	41			
18	85-90	2359	98	.007	.11	51			
19	90-95	2360	99	.001	.06	68			
20	95-100	2361	5000	.003	.09	71			
21	100-105	2362	01	.003	.11	65			
22	105-110	2363	02	.003	.61	47			
23	110-115	2364	03	.002	.09	33			
24	115-120	2365	04	.003	.09	54			
25	120-125	2366	05	.003	.09	39			
26	125-130	2367	06	.002	.06	37			
27	130-135	2368	07	.002	.09	41			
28	135-140	2369	08	.002	.06	36			
29	140-145	2370	09	.002	.06	39			
30	145-150	2371	5010	.002	.06	31			

REMARKS:

KALIUM CHEMICALS LIMITED
DRILL HOLE RECORD

JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: J-18 AREA: JUPITER

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS					
				Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-	5011						
2	5-10		12						
3	10-15	2372	13	.003	.11	61			
4	15-20	2373	14	.003	.23	62			
5	20-25	2374	15	.015	.38	54			
6	25-30	2375	16	.045	1.11	158			
7	30-35	2376	17	.010	.17	55			
8	35-40	2377	18	.010	.14	136			
9	40-45	2378	19	.003	.10	103			
10	45-50	2379	20	.003	.11	63			
11	50-55	2380	21	.001	.10	16			
12	55-60	2381	22	.002	.10	30			
13	60-65	2382	23	.001	.10	84			
14	65-70	2383	24	.003	.10	55			
15	70-75	2384	25	.052	.43	59			
16	75-80	2385	26	.001	.14	59			
17	80-85	2386	27	.006	.10	37			
18	85-90	2387	28	.080	.11	32			
19	90-95	2388	29	.003	.37	35			
20	95-100	2389	30	.001	.14	50			
21	100-105	2390	31	.012	.17	45			
22	105-110	2391	32	.023	.20	48			
23	110-115	2392	33	.015	.20	51			
24	115-120	2393	34	.003	.10	65			
25	120-125	2394	35	.006	.10	37			
26	125-130	2395	36	.003	.10	35			
27	130-135	2396	37	.003	.10	75			
28	135-140	2397	38	.003	.10	37			
29	140-145	2398	39	.005	.15	58			
30	145-150	2399	5040	.009	.32	62			

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JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: J-19 AREA: JUPITER

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS					
				Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-2400	5041	.060	.64	72			
2	5-10	2401	42	.012	.20	40			
3	10-15	2402	43	.009	.17	43			
4	15-20	2403	44	.005	.15	46			
5	20-25	2404	45	.017	.26	49			
6	25-30	2405	46	—	.06	28			
7	30-35	2406	47	.005	.12	30			
8	35-40	2407	48	.012	.17	26			
9	40-45	2408	49	.003	.03	44			
10	45-50	2409	50	—	.06	40			
11	50-55	2410	51	—	.03	23			
12	55-60	2411	52	—	.06	19			
13	60-65	2412	53	.002	.06	25			
14	65-70	2413	54	—	.03	73			
15	70-75	2414	55	—	.06	56			
16	75-80	2415	56	.003	.06	69			
17	80-85	2416	57	—	.12	48			
18	85-90	2417	58	.017	.49	51			
19	90-95	2418	59	.007	.15	32			
20	95-100	2419	60	.009	.17	40			
21	100-105	2420	61	.006	.06	43			
22	105-110	2421	62	.017	.17	64			
23	110-115	2422	63	.001	.06	30			
24	115-120	2423	64	.005	.12	39			
25	120-125	2424	65	.008	.15	32			
26	125-130	2425	66	.020	.20	15			
27	130-135	2426	67	.008	.12	52			
28	135-140	2427	68	.007	.06	63			
29	140-145	2428	69	.002	.12	67			
30	145-150	2429	5070	.003	.12	36			

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KALIUM CHEMICALS LIMITED
DRILL HOLE RECORD

JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: J-20 AREA: JUPITER

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS					
				Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-2430	5071	.012	.23	94			
2	5-10	2431	72	.145	3.25	90			
3	10-15	2432	73	.090	1.48	55			
4	15-20	2433	74	.021	.49	84			
5	20-25	2434	75	.023	.44	92			
6	25-30	2435	76	.013	.29	98			
7	30-35	2436	77	.045	1.02	58			
8	35-40	2437	78	.026	.61	110			
9	40-45	2438	79	.009	.26	93			
10	45-50	2439	80	.051	1.16	103			
11	50-55	2440	81	.037	.90	160			
12	55-60	2441	82	.034	.70	83			
13	60-65	2442	83	.029	.70	85			
14	65-70	2443	84	.028	.55	90			
15	70-75	2444	85	.043	.84	80			
16	75-80	2445	86	.052	.93	68			
17	80-85	2446	87	.020	.58	152			
18	85-90	2447	88	.023	.52	104			
19	90-95	2448	89	.012	.32	110			
20	95-100	2449	90	.012	.38	160			
21	100-105	2450	5091	.037	.67	140			
22	105-110								
23	110-115								
24	115-120								
25	120-125								
26	125-130								
27	130-135								
28	135-140								
29	140-145								
30	145-150								

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KALIUM CHEMICALS LIMITED
DRILL HOLE RECORD

JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: J-21 AREA: JUPITER

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS					
				Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-2451	5101	.006	.20	120			
2	5-10	2452	02	.007	.23	124			
3	10-15	2453	03	—	.12	156			
4	15-20	2454	04	—	.09	103			
5	20-25	2455	05	—	.09	117			
6	25-30	2456	06	.002	.12	100			
7	30-35	2457	07	.008	.20	57			
8	35-40	2458	08	—	.06	38			
9	40-45	2459	09	.006	.23	28			
10	45-50	2460	10	.002	.09	47			
11	50-55	2461	11	.008	.20	51			
12	55-60	2462	12	.005	.17	38			
13	60-65	2463	13	.009	.17	41			
14	65-70	2464	14	.003	.12	44			
15	70-75	2465	15	.001	.03	33			
16	75-80	2466	16	—	.03	30			
17	80-85	2467	17	—	.03	27			
18	85-90	2468	18	—	.06	170			
19	90-95	2469	19	—	.06	55			
20	95-100	2470	20	.002	.55	29			
21	100-105	2471	21	.002	.20	22			
22	105-110	2472	22	.003	.23	18			
23	110-115	2473	23	.002	.17	25			
24	115-120	2474	24	.007	.20	25			
25	120-125	2475	25	.015	.49	34			
26	125-130	2476	26	.045	1.16	29			
27	130-135	2477	27	.015	.29	45			
28	135-140	2478	28	.006	.20	48			
29	140-145	2479	29	.006	.17	57			
30	145-150	2480	5130	.003	.14	49			

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DRILL HOLE RECORD

JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: J-22 AREA: JUPITER

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS					
				Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-2481	5131	.006	.23	63			
2	5-10	2482	32	.001	.11	71			
3	10-15	2483	33	.007	.29	62			
4	15-20	2484	34	.020	.80	80			
5	20-25	2485	35	.012	.32	53			
6	25-30	2486	36	.003	.17	156			
7	30-35	2487	37	.005	.14	41			
8	35-40	2488	38	.002	.11	48			
9	40-45	2489	39	.001	.11	39			
10	45-50	2490	40	.006	.17	35			
11	50-55	2491	41	.001	.11	69			
12	55-60	2492	42	—	.09	43			
13	60-65	2493	43	.003	.11	60			
14	65-70	2494	44	.002	.32	46			
15	70-75	2495	45	.002	.14	29			
16	75-80	2496	46	.003	.11	27			
17	80-85	2497	47	.001	.06	21			
18	85-90	2498	48	—	.06	31			
19	90-95	2499	49	.001	.06	22			
20	95-100	2500	50	—	.03	27			
21	100-105	2501	51	.001	.11	80			
22	105-110	2502	52	.001	.09	37			
23	110-115	2503	53	.001	.03	29			
24	115-120	2504	54	—	.03	63			
25	120-125	2505	55	.001	.09	57			
26	125-130	2506	56	.001	.09	31			
27	130-135	2507	57	.001	.11	17			
28	135-140	2508	58	.001	.03	27			
29	140-145	2509	59	.003	.14	37			
30	145-150	2510	5160	.002	.09	22			

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JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: J-23 AREA: JUPITER

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS					
				Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-2511	5161	.001	.09	60			
2	5-10	2512	62	.007	.20	28			
3	10-15	2513	63	.006	.20	45			
4	15-20	2514	64	.002	.11	37			
5	20-25	2515	65	.003	.14	105			
6	25-30	2516	66	.006	.20	87			
7	30-35	2517	67	.004	.14	42			
8	35-40	2518	68	.001	.44	17			
9	40-45	2519	69	.007	.20	25			
10	45-50	2520	70	.003	.11	35			
11	50-55	2521	71	.005	.14	43			
12	55-60	2522	72	.001	.09	42			
13	60-65	2523	73	.001	.03	26			
14	65-70	2524	74	—	.09	12			
15	70-75	2525	75	.010	.26	11			
16	75-80	2526	76	.010	.38	16			
17	80-85	2527	77	—	.06	30			
18	85-90	2528	78	.002	.09	27			
19	90-95	2529	79	.001	.09	26			
20	95-100	2530	80	.003	.06	13			
21	100-105	2531	81	.001	.06	15			
22	105-110	2532	82	.002	.06	14			
23	110-115	2533	83	.001	.06	20			
24	115-120	2534	84	.002	.04	14			
25	120-125	2535	85	.002	.04	31			
26	125-130	2536	86	.001	.04	17			
27	130-135	2537	87	.001	.03	13			
28	135-140	2538	88	.003	.04	16			
29	140-145	2539	89	.001	.04	15			
30	145-150	2540	5190	.001	.04	9			

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JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: J-24 AREA: JUPITER

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS					
				Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-2541	5191	.001	.10	82			
2	5-10	2542	92	.011	.41	70			
3	10-15	2543	93	.004	.16	72			
4	15-20	2544	94	.004	.14	25			
5	20-25	2545	95	.006	.11	30			
6	25-30	2546	96	.002	.08	23			
7	30-35	2547	97	.004	.06	21			
8	35-40	2548	98	.008	.25	23			
9	40-45	2549	99	.004	.06	24			
10	45-50	2550	5200	.002	.05	16			
11	50-55	2551	01	.002	.02	15			
12	55-60	2552	02	.002	.05	16			
13	60-65	2553	03	.002	.02	20			
14	65-70	2554	04	—	.02	26			
15	70-75	2555	05	—	.02	15			
16	75-80	2556	06	.002	.03	13			
17	80-85	2557	07	.002	.05	21			
18	85-90	2558	08	.003	.05	15			
19	90-95	2559	09	.002	.01	14			
20	95-100	2560	10	.007	.02	11			
21	100-105	2561	11	.002	.02	12			
22	105-110	2562	12	—	.02	10			
23	110-115	2563	13	.002	.03	14			
24	115-120	2564	14	.002	.05	12			
25	120-125	2565	15	.002	.03	10			
26	125-130	2566	16	.001	.11	13			
27	130-135	2567	17	.003	.08	29			
28	135-140	2568	18	.00[illegible]	.02	40			
29	140-145	2569	19	.002	.02	25			
30	145-150	2570	5220	.003	.05	17			

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JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: J-25 AREA: JUPITER

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-2571	5221	.003	.06	48			
2	5-10	2572	22	.006	.13	43			
3	10-15	2573	23	.004	.13	33			
4	15-20	2574	24	.015	.28	38			
5	20-25	2575	25	.011	.18	23			
6	25-30	2576	26	.022	.43	37			
7	30-35	2577	27	.019	.33	20			
8	35-40	2578	28	.003	.05	28			
9	40-45	2579	29	.004	.05	18			
10	45-50	2580	30	.002	.05	22			
11	50-55	2581	31	.023	.40	13			
12	55-60	2582	32	.011	.21	37			
13	60-65	2583	33	.004	.10	23			
14	65-70	2584	34	.002	.04	18			
15	70-75	2585	35	.002	.05	25			
16	75-80	2586	36	.002	.02	17			
17	80-85	2587	37	.002	.03	13			
18	85-90	2588	38	.003	.05	21			
19	90-95	2589	39	.002	.01	17			
20	95-100	2590	40	.002	.05	32			
21	100-105	2591	41	.001	.04	24			
22	105-110	2592	42	.002	.05	38			
23	110-115	2593	43	.001	.03	10			
24	115-120	2594	44	.002	.03	10			
25	120-125	2595	5245	.002	.04	11			
26	125-130								
27	130-135								
28	135-140								
29	140-145								
30	145-150								

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JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: J-26 AREA: JUPITER

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-2596	5251	.010	.18	57			
2	5-10	2597	52	.038	.53	71			
3	10-15	2598	53	.010	.13	77			
4	15-20	2599	54	.006	.09	54			
5	20-25	2600	55	.013	.15	45			
6	25-30		56						
7	30-35	2601	57	.130	2.20	34			
8	35-40	2602	58	.020	.30	31			
9	40-45	2603	59	.007	.10	30			
10	45-50	2604	60	.011	.14	28			
11	50-55	2605	61	.013	.15	29			
12	55-60	2606	62	.016	.22	80			
13	60-65	2607	63	.010	.27	40			
14	65-70	2608	64	.010	.15	29			
15	70-75	2609	65	.011	.18	18			
16	75-80	2610	66	.013	.15	18			
17	80-85	2611	67	.007	.08	20			
18	85-90	2612	68	.004	.08	20			
19	90-95	2613	69	.008	.12	20			
20	95-100	2614	70	.007	.13	20			
21	100-105	2615	71	.002	.08	24			
22	105-110	2616	72	.006	.08	16			
23	110-115	2617	73	.002	.06	17			
24	115-120	2618	74	.008	.08	21			
25	120-125	2619	75	.046	.53	35			
26	125-130	2620	76	.012	.16	43			
27	130-135	2621	77	.003	.08	33			
* 28	135-140	2622	78	.002	.05	19			
29	140-145	2623	79	.002	.02	14			
30	145-150	2624	5280	.003	.06	18			

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JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: J-27 AREA: JUPITER

DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS Au	Ag	Cu	Zn	Pb	Mo
0-5	EC-2625	5281	.007	.21	75			
5-10	2626	82	.002	.08	51			
10-15	2627	83	.012	.23	86			
15-20	2628	84	.007	.12	68			
20-25	2629	85	.023	.34	52			
25-30	2630	86	.015	.23	51			
30-35	2631	87	.006	.12	32			
35-40	2632	88	.006	.15	46			
40-45	2633	89	.006	.09	54			
45-50	2634	90	.022	.31	36			
50-55	2635	91	.003	.08	50			
55-60	2636	92	.009	.15	46			
60-65	2637	93	.009	.11	58			
65-70	2638	94	.003	.28	54			
70-75	2639	95	.004	.08	54			
75-80	2640	96	.004	.38	48			
80-85	2641	97	.006	.15	96			
85-90	2642	98	.003	.08	55			
90-95	2643	99	.001	.08	45			
95-100	2644	5300	.037	.75	236			
100-105	2645	01	.012	.12	89			
105-110	2646	02	.009	.15	85			
110-115	2647	03	.039	.34	89			
115-120	2648	04	.008	.12	36			
120-125	2649	05	.007	.09	37			
125-130	2650	06	.004	.07	52			
130-135	2651	07	.003	.06	30			
135-140	2652	08	.002	.06	28			
140-145	2653	09	—	.03	47			
145-150	2654	5310	.003	.09	47			

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JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: J-28 AREA: JUPITER

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-2655	5311	.030	.45	65			
2	5-10	2656	12	.002	.07	33			
3	10-15	2657	13	.003	.08	66			
4	15-20	2658	14	.025	.37	40			
5	20-25	2659	15	.014	.26	62			
6	25-30	2660	16	.002	.08	21			
7	30-35	2661	17	.002	.07	31			
8	35-40	2662	18	.003	.13	15			
9	40-45	2663	19	.002	.08	19			
10	45-50	2664	20	.002	.11	23			
11	50-55	2665	21	.003	.08	62			
12	55-60	2666	22	.039	.75	147			
13	60-65	2667	23	.043	.77	68			
14	65-70	2668	24	.021	.21	60			
15	70-75	2669	25	.006	.06	15			
16	75-80	2670	26	.003	.03	15			
17	80-85	2671	27	.002	.04	10			
18	85-90	2672	28	.004	.07	59			
19	90-95	2673	29	.001	.01	20			
20	95-100	2674	30	—	.04	19			
21	100-105	2675	31	.001	.03	13			
22	105-110	2676	32	.001	.03	11			
23	110-115	2677	33	—	.01	15			
24	115-120	2678	34	.001	.01	16			
25	120-125	2679	35	.001	.03	28			
26	125-130	2680	36	.002	.04	41			
27	130-135	2681	37	.003	.07	47			
28	135-140	2682	38	.004	.15	40			
29	140-145	2683	39	.002	.07	45			
30	145-150	2684	5340	.006	.09	39			

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JUPITER PROJECT - PIMA CO. ARIZONA

HOLE NUMBER: J-29 AREA: JUPITER

#	DEPTH	KML NUMBER	PROJECT NUMBER	ASSAYS					
				Au	Ag	Cu	Zn	Pb	Mo
1	0-5	EC-2685	5341	.018	.25	24			
2	5-10	2686	42	.029	.28	28			
3	10-15	2687	43	.098	1.25	27			
4	15-20	2688	44	.033	.60	130			
5	20-25	2689	45	.022	.25	62			
6	25-30	2690	46	.022	.25	90			
7	30-35	2691	47	.016	.25	108			
8	35-40	2692	48	.040	.53	42			
9	40-45	2693	49	.019	.21	60			
10	45-50	2694	50	.018	.20	66			
11	50-55	2695	51	.004	.04	52			
12	55-60	2696	52	.006	.10	36			
13	60-65	2697	53	.003	.10	70			
14	65-70	2698	54	.003	.09	37			
15	70-75	2699	55	.003	.07	27			
16	75-80	2700	56	.006	.09	37			
17	80-85	2701	57	.001	.07	27			
18	85-90	2702	58	.003	.10	25			
19	90-95	2703	59	.003	.07	48			
20	95-100	2704	60	.003	.03	39			
21	100-105	2705	61	.013	.25	32			
22	105-110	2706	62	.053	.65	23			
23	110-115	2707	63	.027	.41	22			
24	115-120	2708	64	.009	.16	30			
25	120-125	2709	65	.013	.21	47			
26	125-130	2710	66	.037	.63	30			
27	130-135	2711	67	.018	.31	22			
28	135-140	2712	68	.017	.29	47			
29	140-145	2713	69	.004	.14	47			
30	145-150	2714	5370	.003	.07	49			

REMARKS:

2-28-68

JUPITER MINE.

Located in S36:7E:19S, Baboquivari Mts. Presumido Peak quadrangle.

Information from, Harvey Riggs, Art. Jacobs & ABM bulletin 137.

Unable to get to the mine but looked over the area with field glasses. It is reported that Shattuck Denn did some work. Later it was reported that Magma Copper Co. drove a 1300' tunnel and found nothing. There are no recorded patented claims near the mine, so ownership is unknown.

Some company has been doing geophysical work in the area recently.

North American Mining Company is studying the area at the present time.

Visited by G. Irvin 2-28-68

State Land Department

MEMORANDUM

Date July 31, 1979

To: John M. Little
via A. K. Doss AKD

From: John P. Kellogg JPK

Subject: Commercial Lease Application #73451 - Cyanide gold and silver leach operation in Section 36, T19S, R7E.

In company with the applicant, Marvin Combs, I examined the subject property on July 19. The five acres requested are the E2SWNWNW, adjacent to Mr. Combs' six mineral leases #4154, 4155, 4156, 4157, 4193 and 4194. Mr. Combs plans to construct the millsite in M-4193, with tailings ponds lapping over onto the commercial lease, on which he will erect shops, bathhouse and storage sheds. The property is known as the Jupiter Mine, and is shown on the Presumido Peak 15-minute quad sheet.

Shaffer Wash heads a short distance above the proposed millsite, courses through the requested commercial lease and through the Nelson ranch about ten miles before it empties into Altar Wash. Shaffer Wash is the problem; it is the umbilical cord furnishing life to the project, and through which, in return, the pregnant cyanide solutions could escape.

In 1840, a Swedish chemist discovered that gold was soluble in a cyanide solution, and the art of gold electro-plating was born. The cyanide process of treating gold and silver ores evolved in 1886, and has since proven to be safe and effective throughout the world - IF conditions are right, and IF adequate care is given to the process. Briefly, heap leaching consists of piling crushed run-of-mine rock on an impervious base and percolating a dilute solution of either potassium or sodium cyanide through the heap, collecting the solution and recycling it. This may require weeks or months, depending on the depth and permeability of the heap and the size and permeability of the rock. The impervious base should be flat and slightly inclined to a gutter for collection. The base can be asphalt, bentonitic clays, plastic liners, or a combination of clays and plastic. There are several reducing agents to effect precipitation of the gold and silver from solution.

A conventional cyanidation plant, with vats for agitation, thickener decantation, residue washing, filtering, and deaeration by vacuums is time-proven to be environmentally harmless by its enclosed nature. Outdoor heap-leaching, or "poor-boying it," can be harmful and even dangerous if particular care and safeguards are not taken. In a U. S. Bureau of Mines bulletin on "The Heap Leaching Process" presented at the American Mining Congress Convention in Denver in 1973, Potter and Salisbury write "From the ecological standpoint, heap leaching has a low potential for pollution.

Cave Mine - Hualapai 292-2890 Combs
near - D'Albini Ranch

The residues are coarse and nearly dust-free, no gasses are emitted, and all solutions are recycled." This is ideally true. Several conditions exist at the applicant's proposed site that could interfere with this ideal. They are itemized below.

1. Not being a chemist, I am not certain of this truth: that cyanide reacts with sulfide ores, which generate acid, to produce the same gas that is used in gas chambers (this should be chemically verified). Combs' ores from the Jupiter Mine are heavy with sulfides.

2. Shaffer Wash, noted above, could present a serious problem. It is not known by the writer how far a dilute cyanide solution will travel in a dry wash. I suspect that it would dissipate quickly, and be rendered harmless in the sand and gravel bed before it even left the five-acre commercial lease. That's when the wash is dry. Note attached photo number 11: This real grandaddy gully-washer is centered directly over the Jupiter Mine area. How far a flooded Shaffer Wash would carry a diluted cyanide solution before it dissipated would appear to be a major concern. And would a residue remain after the wash dried out?

3. The smaller the crew attending a cyanide heap leaching operation the less the control over all phases. Particularly vulnerable to accident is storage of the pure, undiluted cyanide with no one in attendance. It is my understanding that Mr. Combs will have only one laborer; it is not difficult to visualize the two men gone at the same time.

4. Mr. Shoenhair, attorney for Nelson Ranches, is on record in a letter dated March 6, 1979 that expresses concern for possible cyanide contamination in water supplies. Mr. Shoenhair advises a "thorough investigation made" of the proposed operations. To this, I heartily concur.

Eleven photographs, two of which are two-shot overlaps, are attached on four card sheets. Photo #1 is an overall view of Mr. Combs' proposed millsite, leaching pad and tailing ponds (in part) with Shaffer Wash in the foreground. The switchback road in the center distance (shown in detail in Photo #2) leads to his millsite, which will consist of crusher, ball mill, and solution tanks. At the bottom of the right hand "road" in Photo #2 is the leaching pad location. In places some of the white, totally inadequate small diameter pipe can be seen. Where this pipe has been exposed by rains, cattle have stepped through it. Photo #3 shows the ore-haul road from the Jupiter Mine portal and dump in the middle distance. Photo #4 is a closeup of the partially cleared leaching pad area. Photo #5 is a view north to the head of Shaffer Wash. The pad area shows in the middle distance. It is beyond this pad, on the yet un-cleared slopes, that the first tailings pond is planned. A dozed-up berm will surround the pond. Mr. Combs plans to divert

the near wash away from the pond by digging a trench to Shaffer Wash upstream several hundred feet north of its present location. Photo #6 shows Shaffer Wash downstream from Mr. Combs' planned operations. Photo #7 shows an old concrete dam in Shaffer Wash on the commercial lease area, downstream from all planned operations. Mr. Combs plans to doze out the accumulated sediment; in the event of flood, this dam should catch considerable material, but a major, 100-year flood would likely wash around the dam, shown from above in lower left side of Photo #8. This view shows road access above the dam, and general area for shops, shed, storage and trailers. Photos #9 and 10 show Mr. Combs' first choice for a mill site, located at an old former mill by another mine which is shown in the middle distance in Photo #10. This location, about one mile downstream from the present location and a quarter mile up a side wash, also appears more favorable to me, since tailings are already there, and pollution of Shaffer Wash would appear less likely, but the rancher did not agree.

Comment has already been made of Photo #11, showing a storm gathering over the Jupiter area. This is a view west, with Mildred Peak in the clouds to the far left. The rancher's gate in the foreground is at entrance from the Tucson-Sasabe highway.

General Conclusions and Recommendations

There is a potential here of sufficiently serious consequence to enlist more expert opinion. For a start, I recommend consultation with Dr. Ron Miller, Water Quality Control, Arizona Health Department. Mr. David Rabb, Mining Engineer and Metallurgist with the Arizona Bureau of Geology and Mineral Technology did some leaching tests for Mr. Combs. I have had a long talk with Mr. Rabb concerning this problem. Perhaps he should be consulted further.

Normal precautions, as special conditions, should be as follows:

1. Secure fencing around millsite, leaching pad, tanks, and tailings ponds.

2. Impervious base for the leaching pad, consisting of plastic liner covered with several inches of bentonite-like clay.

3. A plentiful supply of regular swimming pool chlorine, which neutralizes cyanide immediately.

4. A powder-magazine-type underground storage for the pure, undiluted cyanide.

5. Tailings pile berms of sufficient height and thickness to withstand any flooding.

6. Pipe of adequate size and strength for all solution recycling.

7. Chemical toilet.

8. Some responsible person in attendance at all times during leaching process to keep visitors away from the cyanide, and with equipment available to repair dam and pipe breaks.

9. Signs posted warning of hazardous materials, and of blasting at the mining operations.

10. Any additional recommendations from the Health Department, or others, to be added.

JPK/lj

Jupiter Mine file

Arizona
State Land Department

BRUCE BABBITT
GOVERNOR

1624 WEST ADAMS
PHOENIX, ARIZONA 85007
602 - 255 - 4634

OFFICE OF
STATE LAND COMMISSIONER

August 8, 1979

Mr. Marvin W. Combs
918 W. Santa Maria
Tucson, Arizona 85706

Dear Mr. Combs:

Enclosed for your information is the report of John Kellogg, dated July 31, 1979, on your proposed millsite and tailings pond.

May we suggest that you take the initiative in resolving the questions raised by Mr. Kellogg, if you wish to continue with the processing of your application.

A copy of this letter and the report is being sent to the Attorneys for Nelson Ranches, Bilby, Shoenhair, Warnock & Dolph, whose letter to this Department dated March 6, 1979, is enclosed for your reference.

With regard to any technical matters, please contact Mr. Kellogg.

Sincerely,

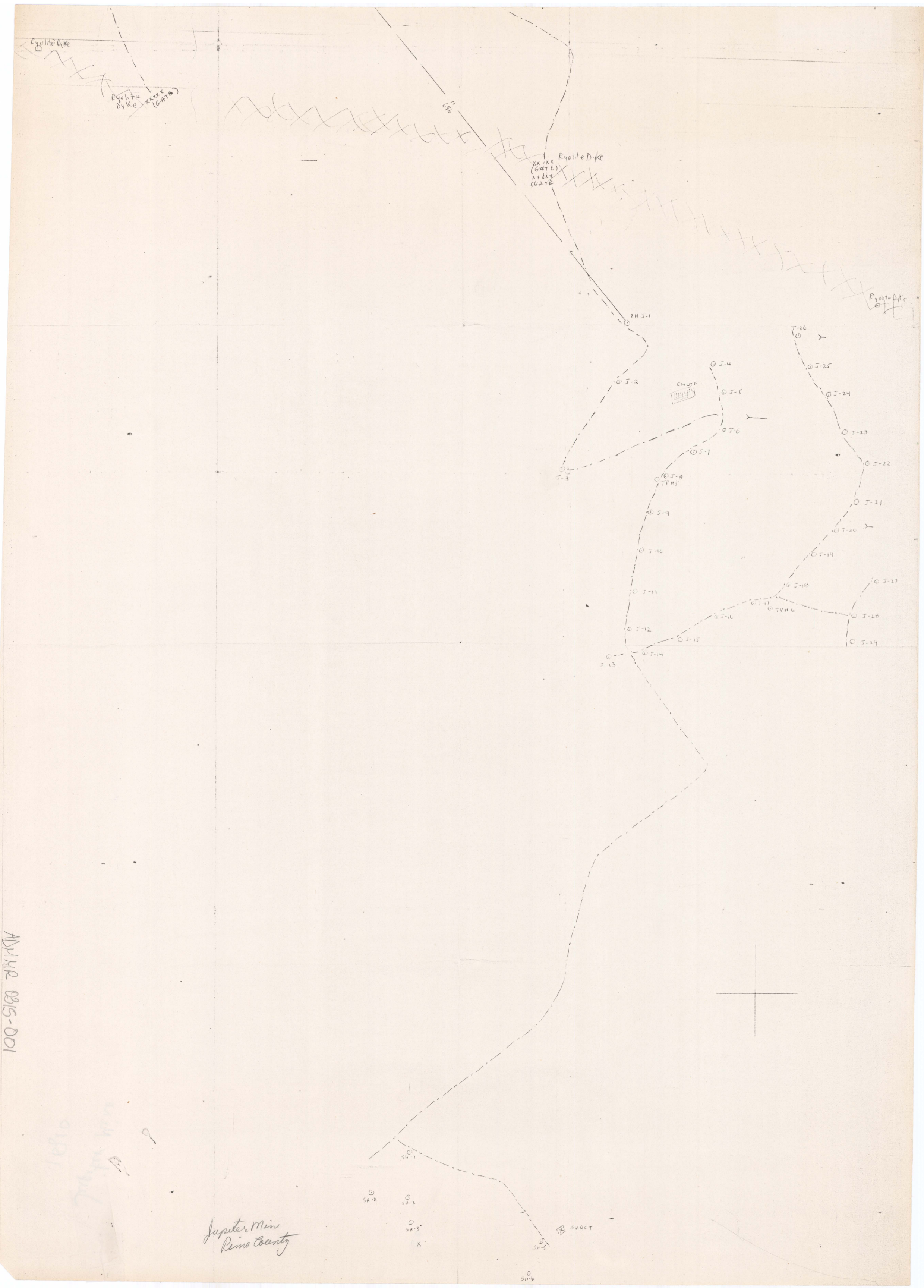
John M. Little, Director
Urban & Community Development Division

Telephone: 255-3671

JML/et

Enclosure

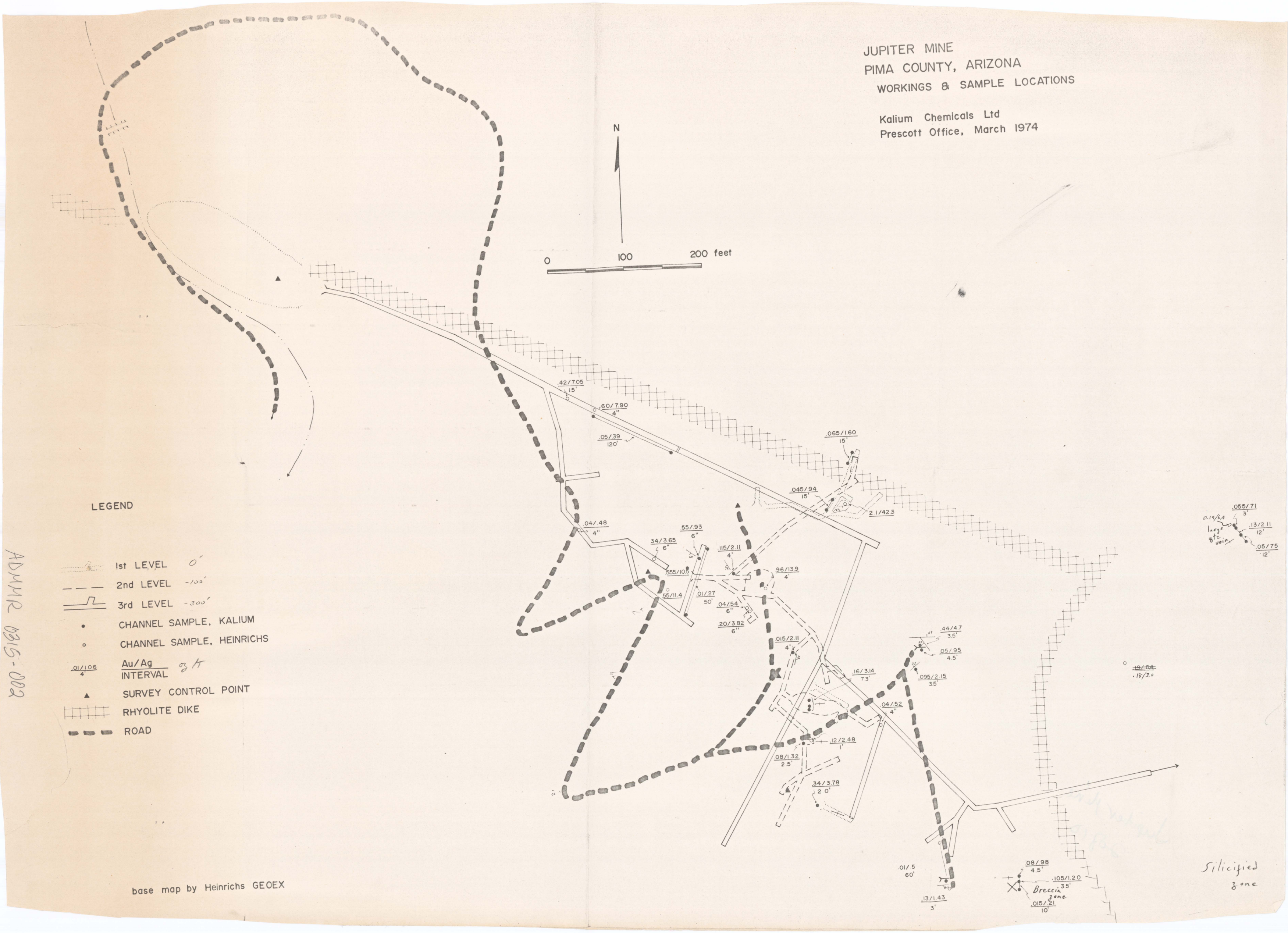
cc: Bilby, Shoenhair, Warnock & Dolph, P.C.
John Kellogg, State Land Dept.



ADMMR 0315-001

JUPITER MINE
PIMA COUNTY, ARIZONA
WORKINGS & SAMPLE LOCATIONS

Kalium Chemicals Ltd
Prescott Office, March 1974

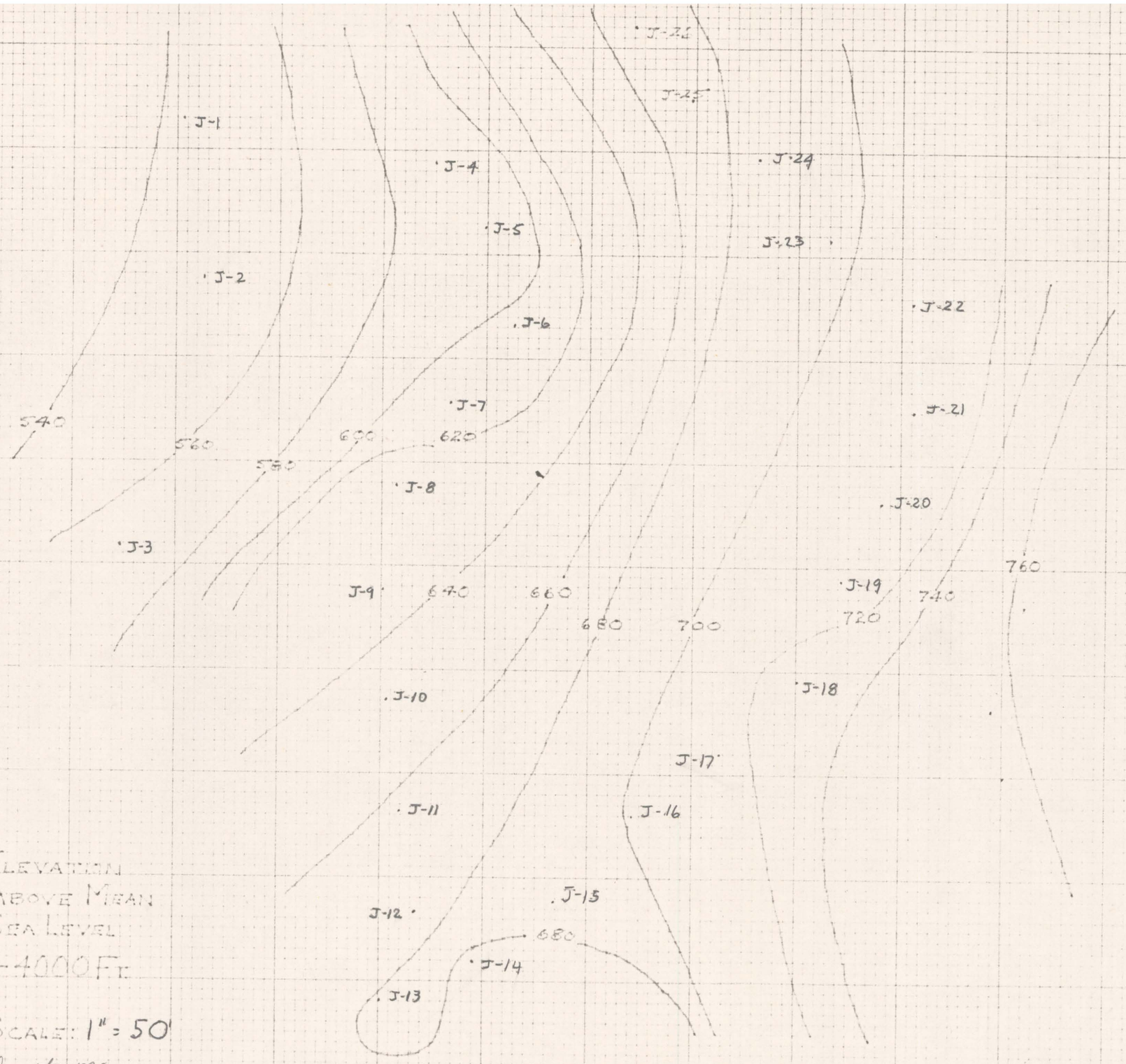


ADMIR 0315-002

AOMMR 0315-003

Detailed Sample Locations
Jupiter Mine, Pima Co., Arizona
Kalium Chemicals Ltd. (A/A method)

Au in ppm
"Mo" means > 5 ppm



ELEVATION
ABOVE MEAN
SEA LEVEL
+4000 FT.

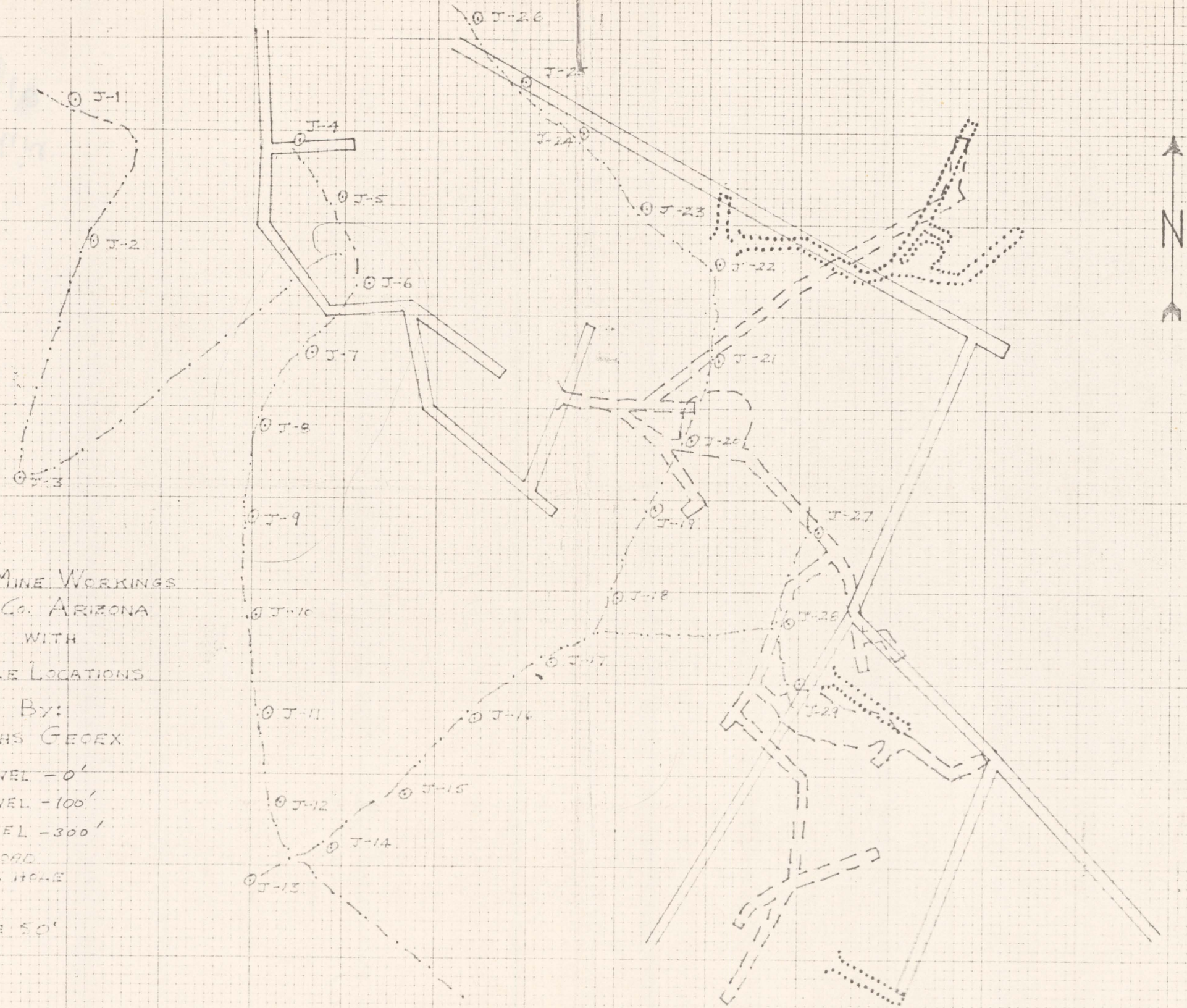
SCALE: 1" = 50'

Jupiter Mine
Pima County

C. Howard Feb. '75

DRILL HOLE LOCATIONS

AOMMR 0315-004



JUPITER MINE WORKINGS
PIMA CO. ARIZONA
WITH
DRILL HOLE LOCATIONS

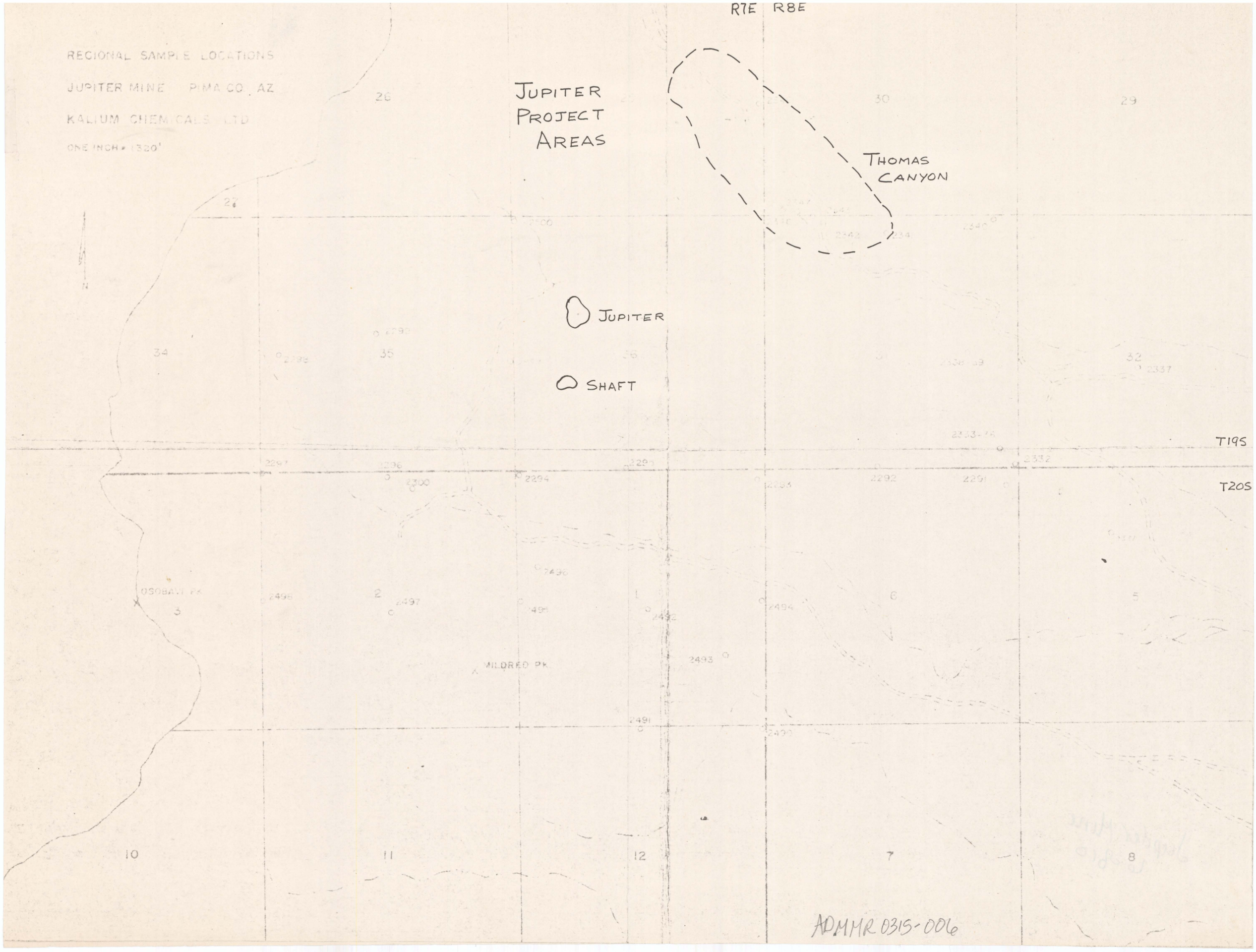
BASE MAP BY:
HEINRICHS GEOEX

1ST LEVEL -0'
2ND LEVEL -100'
3RD LEVEL -300'
℄ ROAD
⊙ DRILL HOLE

SCALE: 1" = 50'

C. Howard Feb '75

ADMMR 0315-005



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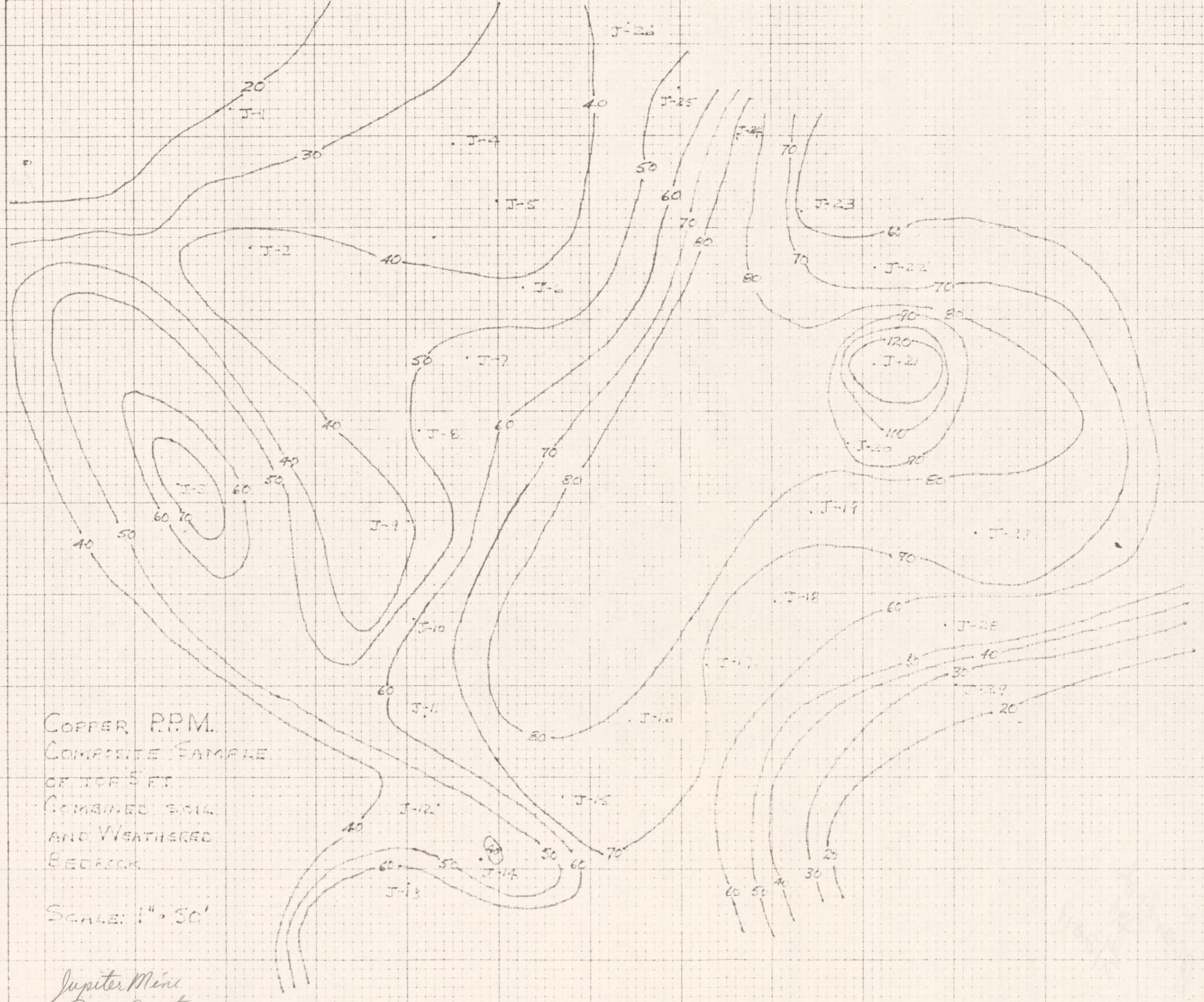

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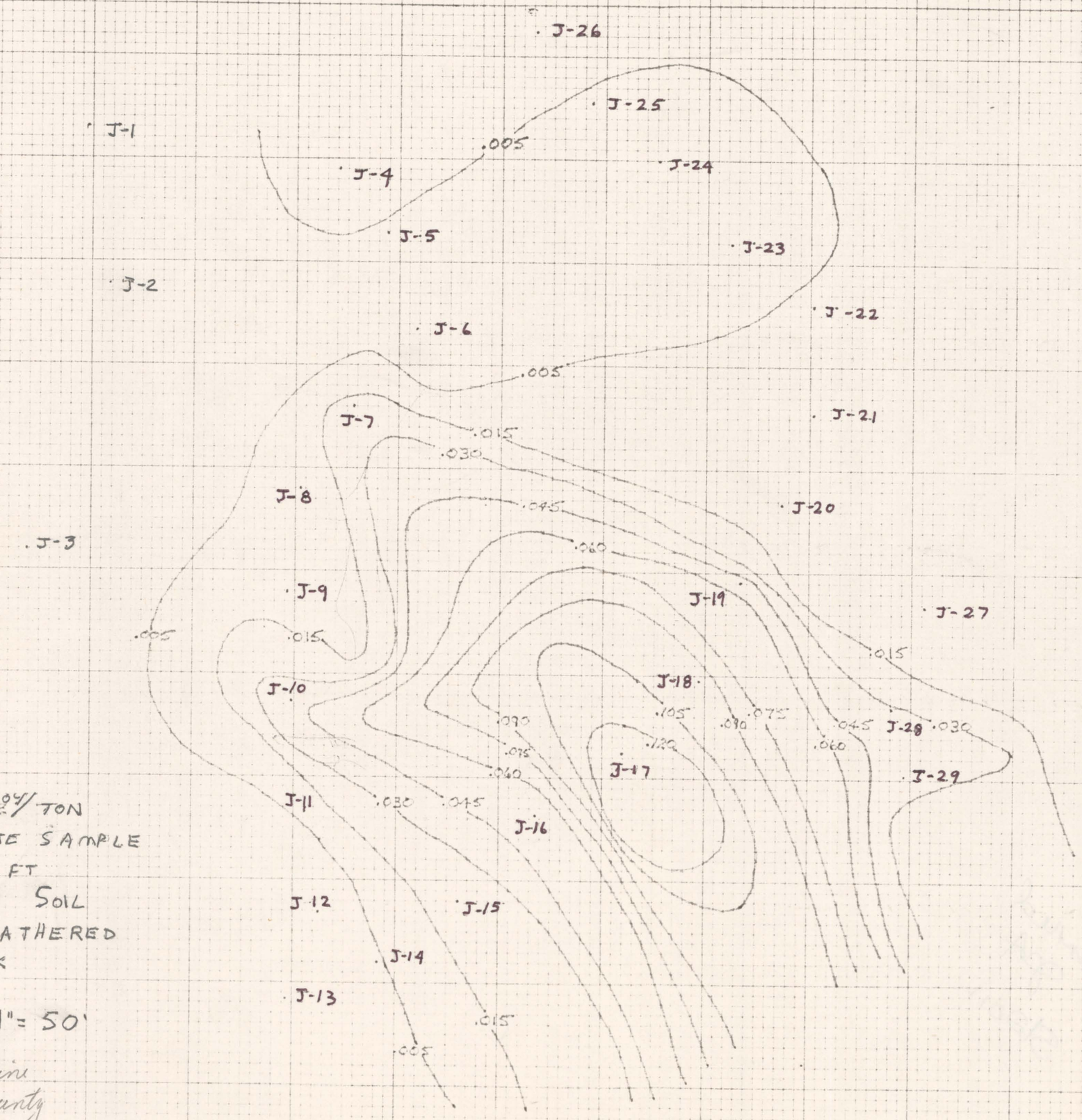


GOLD TROY OZ./TON
COMPOSITE SAMPLE
OF TOP 5 FT
COMBINED SOIL
AND WEATHERED
BEDROCK

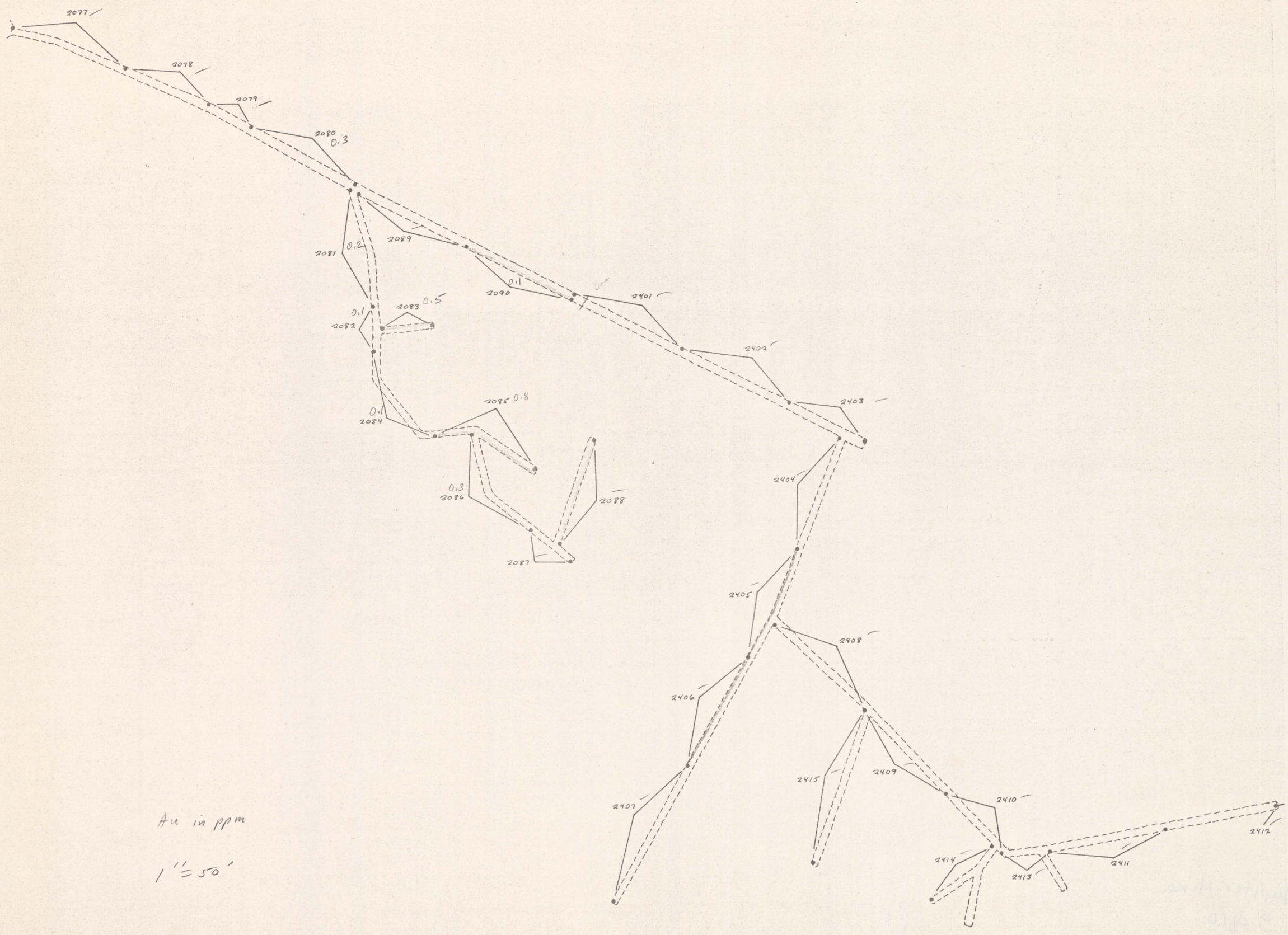
SCALE = 1" = 50'

Jupiter Mine
Pima County

C. Howard FEB '75

J-# - DRILL HOLE LOCATIONS

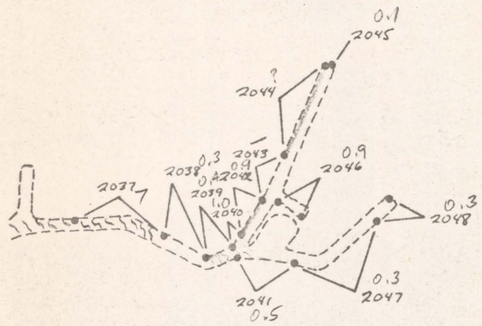
ADMMR 0315-008

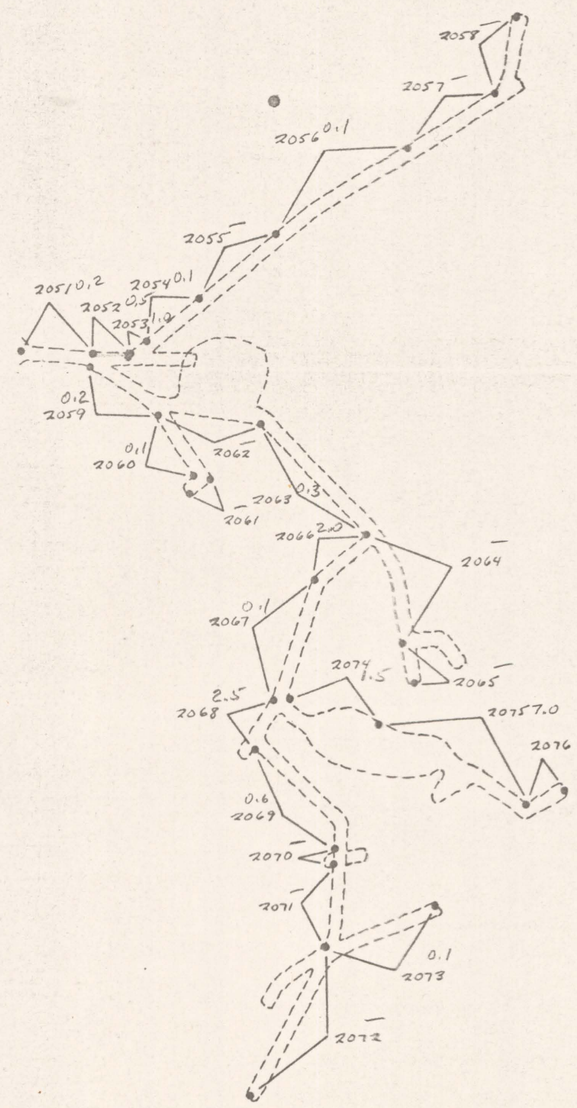


Au in ppm

1" = 50'

ADMMR 0315-009





Au in ppm

1" = 50'

Jupiter Mine
Pima County

ADMMR 0315-010