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Arizona Department of Mines and Mineral Resources Mining Collection

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ALVAREZ CLAIMS

PINAL COUNTY

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Talked to Murrell Smith re Red Hills property. His lawyer is a Frank Cabrisi of Yuma. His partner's lawyer is a Ken Flickinger, Jr. 203 E. Earll Drive, Phoenix. Mr. Smith suggested anyone interested in buying Red Hills should start with Mr. Flickinger. Bell Western has a 9 year lease starting October 1969 with rights to sub-lease once. Bell Western was bought by a Glascock Oil Co. of Texas. Mr. Smith stated Red Hills intended to drill to over 1000 feet around Utah and Mexican shaft.

Memo JhJ 5-28-71

Went out to Red Hills Mining Co. leaching project at the old Alvarez property 14 miles east of Florence where the work was temporarily halted while installing a new water-well pump. Two new and larger leaching pits have been recently built. O. L. and George Hill are no longer with the company. A Mr. Royce McCary is president and resident manager. Mr. John Wood is leaching foreman and Rex Hill (son of O. L.) is mine foreman. Paul Cook is metallurgist. A lab has been set up in a trailer house on the property. GW WR 7-26-71

Dir. of Mining - 20 men August 1971

Visited Red Hills office in Florence and talked with Mrs. Paul Cook, as others were out of town/ mine is idle and core drilling is contemplated. I suggested they call Floyd Everett regarding USBM participating in planned experimental work. TJ WR 1/24/72

The Red Hills Mining Company, 14 miles east of Florence, has expanded their copper leaching operation on the Alvarez deposit by the addition of another big pit. GW QR 2/72

The Red Hills Mining Company project on the Alvarez property 14 miles east of Florence has been shut down "several" months according to a mechanic. All the supervisory people had been laid off and a Mr. Kennedy is in charge of disposing of the equipment. Some heavy equipment remains but most of it has been taken to Phoenix for auction on April 15, 1972. Went into Florence to the office of Red Hills Mining Company but the door was locked. GW WR 4/3/72

Don Kennedy, manager Red Hills Mining Company, Florence, came in for production figures of the Glove mine, Santa Cruz County. Several pages of file reports were copied and given him, likewise an article from "Economic Geology," 1966. He said a large oil company was negotiating with Red Hills. If they take the property, it will be on a 90-10% basis with the oil company supplying exploration funds. He also volunteered the information that Kerr-Mac was drilling a copper property about 4-5 miles NE of Red Hills near the Gila River and also Quintana will start a drilling program near Cochran soon. GW WR 7/28/72

ALVAREZ CLAIMS PINAL COUNTY

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O.L. Hill of Florence reports that the Bell-Western Co. of Denver, Colorado had drilled several 100 ft. holes on the pioneer copper claims at Cochran and are presently drilling on the Alvarez and adjoining copper properties south of Price. GW QR 7-1-70

Visited the Alvarez and Bell-Western properties 14 miles east of Florence. There was no activity; 2 dump trucks, a drill rig, a flat-rach diesel truck and a 600 cfm compressor and wagon drill were stored at an abandoned ranch house about 1½ miles north of the Alvarez shaft. GW WR 7-17-70

Active Mine List Oct. 1970 - 7 men - O.L. Hill, Pres. Red Hill Mining Co., Florence

Mr. Murrel Smith said that the Alvarez and the adjoining claims were active presently, that is a large diameter (12") water well is being drilled in preparation of leaching ore from both properties. GW WR 10-30-70

O.L. Hill, manager of Red Hills Mining Co., is making preparations to leach three pit areas at the Alvarez mine. There are two pits excavated on top of a knoll about a ¼ mile south of the shaft which Hill said would contain about 100,000 tons each. A well has been drilled and two concrete water storage tanks are presently being poured. Concrete precipitation tanks have been completed. All the equipment, which includes a large front-end loader, grader, two diesel generators, wagon drills and a 600 cfm compressor, look to be quite new. Mr. Hill's son, George, is the superintendent; he has been on the project two days. GW WR 1-15-71

Visited Red Hills Mining Co. operation at the old Alvarez property in Sec. 32, T4S, R11E. Although neither Mr. Hill was available, workmen said they began mining immediately north of the Alvarez shaft on March 1. They are hauling with two small trucks that are being loaded with a front-end loader; a wagon drill is drilling blast holes. It is estimated there are 200 tons of crushed ore in the north leaching pit at present. These pits (2) are reported to have a capacity of 50,000 tons each. GW WR 3-3-71

At the Red Hill Mining Co. Alvarez property the south pit was being leached and the north one is practically filled with newly crushed rock. Although neither of the Hills were available it was observed that anew open pit was being prepared for mining somewhat west of the original one. The old or first pit is approximately 20' deep. It is rumored that Red Hills Mining Co. would like to sell their operation. GW WR 5-10-71

The Red Hills Mining Co. began mining operations at the old Alvarez oxide copper property, 14 miles east of Florence, on March 1, 1971. According to an E&MJ announcement, they intend to produce 10,000 lbs. of copper per day from a leaching operation. Immediately south of the open-pit there are two 100,000/leaching pits, ton a large concrete water reservoir, a well and two diesel electric generators. In the pit were 3 small trucks, a front-end loader and a wagon drill. GW QR 4-8-71

Murrell Smith reported that he and Alvarez had done their assessment work at the Alvarez claims 11 miles east of Florence. He brought in a specimen of rock from one hole and this looks like a leuco-monzonite porphyry even though it is strongly altered, expecially the biotites. Mr. Murrell Smith says these claims are held by a lease arrangement. Arizona Consolidated Gold and Copper mine. LP 6-8-64

Mr. Murrell Smith stated that the Alvarez claims east of Florence come up for adjudication on September 5 at Florence. LAS Mesa Conf. 5-19-66

Mr. Murrell Smith states that the Alvarez adjudication was postponed until early November. The postponement was necessitated by the Alvarez lawyer being tied up in a murder case that had dragged on longer than anticipated.

Recently a test shaft, 20 feet deep, had disclosed a composite vein with three divisions. The overall width is 5 feet in one place. A higher grade chrysocolla streak, 4 inches wide, had just been encountered. This is solid blue chrysocolla with malachite and brochantite disseminated in it. The chrysocolla appears to be gem variety. This work is in the southeast portion of the claims. The five feet all contained variable quantities of chrysocolla. The assessment work was completed late in August. LAS 9-22-66

Conference with Murrell Smith, Secretary, Mesa Chamber of Commerce

According to Mr. Smith they are having a survey made of the contested claims so as to have an accurate location of them. When that is finished a judgement (final) can be handed down. LAS Memo 1-19-67

Mr. Murrell Smith reported no noteable changes at the Ben Alvarez Group except an offer of compromise in the suit previously reported in favor of Alvarez. It is felt that if the terms of the compromise are satisfactory it probably will be adopted. The claims have been more closely located by a partial survey. LAS Mesa Conf. 5-18-67

ALVAREZ CLAIMS Do Not Reproduce PINAL

After getting out of the sand wash, went back to Red Hill Mining Company, where Mr. Alvarez said Mr. Kennedy, Manager had gone into Florence but he also said they were drilling a core hole now +2100 feet in which was found considerable chalcopyrite and moly. A search was made for Mr. Kennedy but he wasn't found. GW WR 9/27/72

Went to Red Hills Mining Company where Mr. Kennedy showed the Ax & Bx core from their 2500 foot hole in Sec. 34, T4S, R11E completed about a month ago. Over 90% recovery of core was made due to the generally unaltered condition of the coarse grained granite. It, however, contained considerable pyrite with some chalcopyrite and molybdenite from 300 feet to the bottom. Two of Conoco Oil Company geologists were examining the core and Mr. Kennedy said two major mining companies had expressed a desire to acquire the property consisting of 452 claims and a lease of 640 acres of State land. GW WR 11/15/72

Went on to the Red Hills Mining Company, Alvarez property 14 miles east of Florence. The gate was locked and no one was there. GW WR 6-4 -73

Robert Anderson of Conoco said Red Hills had closed ~~th~~ about Jan. 1, 1973 and that Mr. Kennedy had gone to work for another company. GW WR 6-4 -73

Went on to the Red Hills Mining Company, [illegible] Florence. The gate was locked and no one [illegible]

The Red Hills Mining Company, east of Florence, drilled one 2500 foot core hole which had some Cu and Mo mineralization from 1350 feet, then closed operations entirely. GW Annual Report 6/29/73

Murrell Smith of Mesa called to say the Alvarez (Red Hills mine) was available. FTJ WR 12/30/74

Merle Smith, secretary of Mesa Chamber of Commerce, phoned to discuss the drilling of holes for the annual assessment work. He was questioned about Red Hills, he said that the property was up for a deal as Red Hills Mining Company had released it. GW WR 3/28/75

Jim Horner, Mesa, phoned for drilling information on the Alvarez or Red Hills Cu property. He was told of seeing the mineralized portion of the core taken from the hole Mr. Kennedy drilled about ½ mile east of the camp. He said PD drilled some holes later. GW WR 12/15/75

Troy Ray, Claypool, came in to discuss the activities of the Red Hills Mng. Co. He said he now has relocated not only the Bell-Western claims but also the original Alvarez property. GW WR 3/30/76

Do Not Reproduce

ALVAREZ CLAIMS PINAL COUNTY

RRB WR 3/6/81: Jennie of Sun Chief Mines, P.O. Box 2819, Globe, Arizona 85501, phone 425-4624, called to ask about the Red Hills Mining Co. in Sections 33, 34 & 35, T4S, R11E, Pinal County. They had copies of the Alvarez and Arizona Copper Group (Red Hills Mining Co) made. Sun Chief is a new company.

RRB WR 2/24/84: Visited Alvarez Claims, Red Hills Property in Sec 33, T4S R11E. Pinal County. There are several shafts and an open cut. The remains of a heap leach, cementation plant operation in the SE¼ Sec 33. No recent activity.

KAP WR 2/5/88: Troy W. Ray, 1306 Live Oak, Miami, Arizona, phone 473-3180 was in to discuss his Red Hills Property (Alverez Mine - file) Pinal County. A separate report has been prepared for the file. Of particular note is that he explained that the reports of title probelms (circa 1979) were solved in court and that he is the sole owner. He would like to find someone to buy or develop the property.

Date Printed: 01/07/93

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

VERBAL INFORMATION SUMMARY

Information from: **Martin McKenna**

Company: Gila Red Hills Mining

Address: 2290 W. Broadway Road
City, State ZIP: Apache Junction, Arizona 85220
Phone: 602-982-8224

MINE: **Red Hills**

ADMMR Mine File: Alverez Claims File
County: **Pinal**
AzMILS Number: 320

SUMMARY

Martin McKenna was in with results of ceramic tests on his aplite from a portion of his Red Hills mine.

Art Smith, Director of R & D for Laguna Clay Company did extensive practical testing on the material as a possible constituent of glazes and ceramic bodies. The amount of work they did for him for free was impressive.

A possible limiting factor in the usefulness of his aplite is the dark contamination. Two suggestions for his next step were made. He should get a "whole rock" chemical analysis and he should pulverize some of the material and attempt to pan out the dark mineral inclusions. The panning tails should also be analyzed to determine if gravity separation will eliminate any significant impurities.

A copy of the letter from Laguna Clay was made for the file. Mr. McKenna also was going to type up his telephone notes from his conversations with Art Smith and provide a copy for our file.

The Red Hills mine has been typically considered a leachable copper deposit. Mr. McKenna has been pursuing market possibilities for other minerals on the property

Ken A. Phillips, Chief Engineer Date: December 29, 1992

Mine: Red Hills
County: Pinal
File: Alverez Claims

Engineer: Ken A. Phillips
Date: February 16, 1988

Subject: Office interview with Troy W. Ray

Troy W. Ray, 1306 Live Oak, Miami, Arizona, phone 473-3180 was in to discuss his Red Hills Property [Alverez Mine (file)], Pinal County. The property was a past producer of cement copper using vat leaching and scrap iron launders. He explained that it only operated for about 3 months. He went on to explain that he has a report by Jerry Fountain that says there is over 20,000,000 pounds of acid recoverable copper proven at the property, but he believes that 2,000,000 pounds would be a more believable number. Past production was from a pit measuring 30′ X 30′ X 600′. Mr. Ray also reported on some of his recent efforts on a quartz vein occurrence at the property. They have shown about 1,000,000 tons (he reported 500,000 cubic yards) of material running 2.3% copper in a structure running approximately 1000 feet long and 12 to 14 feet in width. An 80 foot shaft had been sunk on the vein at sometime in the past. One sample reported ran 0.25 tr.oz. Au/ton. The property position is reported to consist of 152 lode claims on Federal minerals, (Bonnies 1 - 10 and Red Hill 1 - 142). He explained that the reports of title problems (circa 1979) were solved in court and that he is the sole owner. He would like to find someone to buy or develop the property.

LAGUNA CLAY COMPANY
Ceramic Research and Supplies
14400 Lomitas Avenue
City of Industry, CA 91746
818/330-0631, FAX 818/333-7694

DECEMBER 2, 1992

GILA RED HILLS MINING
RE: APLITE SAMPLES

DEAR MARK:

ENCLOSED ARE SOME FIRED SAMPLES WHICH WE DISCUSSED BY TELEPHONE. THE SERIES IS "AS-557 A-E".

THE "B" SERIES IS 50% NEPH SY A-270 AND 50% APLITE. CONE 06,5 & 10.

THE "C" SERIES IS 50% GERSTLEY BORATE AND 50% APLITE. SAME FIRINGS.

THE "D" SERIES IS 50% POTASH FELDSPAR AND 50% APLITE. SAME FIRING.

THE "E" SERIES IS 75% CLAY BODY AND 25% APLITE FIRED TO CONE O6 AND CONE 5.

I HOPE THE RESULTS AFTER YOUR REVIEW WILL FURTHER AID IN UNDERSTANDING HOW THE PRODUCT CAN BE USED. IT'S POSITIVE AND NEGATIVE POINTS ETC.

FEEL FREE TO CALL ME SHOULD YOU HAVE ANY FURTHER QUESTIONS REGARDING THE APLITE AND TESTS.

SINCERELY
ART SMITH

DIRECTOR OF R & D

1947 Westwood Ceramic Supply

1936 S. Paul Ward

1932 Mineral Ceramic Products

Martin McKenna

10/91

~~505-694-4936~~

Martin McKenna
General Partner
Gila Red Hills Limited Partnership
Claimholders for The Red Hills
Mining Area 12 miles northeast
OF FLORENCE AZ.
T4S R11E Secs 27, 28
33, 34, 35.
931-6444
(602)-2[redacted]-[redacted]

If Interested in sale or lease of
This property call above number
for terms.

ARIZONA CONSOLIDATED GOLD & COPPER MINES CO.
122 South Mesa Boulevard
MESA, ARIZONA

June 16, 1951

Charles H. Dunning
Director of Mineral Research
Fairgrounds,
Phoenix, Arizona

Dear Mr. Dunning:

Enclosed is a copy of a 45 page report I have just mailed to my stockholders. It gives a lot of information about our property. I thought you might find it interesting.

As you notice, this report was for our own stockholders only.

Best regards to you.

Yours very truly,

John F Johnson

John F. Johnson, President
Arizona Consolidated Gold
and Copper Mines Co.

Rec'd

JFJ:ep
Enc: 1

ARIZONA CONSOLIDATED GOLD & COPPER MINES CO.
122 SOUTH MESA BOULEVARD
MESA, ARIZONA

August 1, 1950

Charles H. Dunning, Director
Mineral Research Department
Fairgrounds
Phoenix, Arizona

Dear Mr. Dunning;

Enclosed please find a copy of Mr. Thompson's report on our Big Copper property near Florence, Arizona. I thought perhaps the Department would like to have a copy.

Mr. Thompson's proposed churn drilling program is now being considered by our company. If and when we start on this program, we will keep in contact with the Department.

Sincerely yours,

John F Johnson

John F. Johnson, President
Arizona Consolidated Gold &
Copper Mines Company

JFJ:ep
1 enc.

INTERNATIONAL PLASMA LABORATORY LTD.

2036 Columbia Street
Vancouver, B.C.
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898

#304

R E P O R T S U M M A R Y Report:[9200881 R]

A N A L Y T I C A L R E P O R T

Origin Inception Date:[Oct 13, 1992]

Client:	135	Cambior Exploration USA, Inc.
Contact:		Nick Barr
Project:	0	304
Amount/Type:	42	Rock

Analytical Requisition

Geochemical:[ICP(AqR)30]
Assay:[Cu>.2% = OxCu Cu>1% = Assay] ICP:[30]
Comments:[None]

Delivery Information Reporting Date:[Oct 15, 1992]

Principal Destination (Hardcopy,Fascimile,Invoice)

Company:[Cambior Exploration USA, Inc.]
Address:[230 South Rock Blvd., Suite 23]
City/Province:[Reno, NV]
Country/Postal:[USA 89502-2]
Attention:[Randy Moore/Nick Barr]
Fascimile:[702/856-4549]

Secondary Destination (Hardcopy)

Company:[ ]
Address:[ ]
City/Province:[ ]
Country/Postal:[ ]
Attention:[ ]
Fascimile:[ ]

2 data pages in this report. Approved by: _____

B.C. Certified Assayers

iPL CODE: 921015-15:33:40

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304

Report: 9200881 R Cambior Exploration USA, Inc. Project: 304

Sample Name	Type	Cu %	Ox Cu %	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm
06268	Rock 4'	--	--	1.9	537	<2	6	<5	<5	<3	9	<10	<2	<0.1	2	3	78
06269	Rock 3'	--	0.21	0.1	2384	5	9	7	<5	<3	4	<10	<2	<0.1	2	4	26
06270	Rock 3'	--	0.73	<0.1	7974	5	19	11	<5	<3	7	<10	<2	<0.1	3	6	23
06271	Rock 4'	--	--	0.1	166	16	<1	10	<5	<3	22	<10	<2	<0.1	1	2	81
06272	Rock 4'	--	0.26	<0.1	4107	30	38	62	<5	<3	6	<10	<2	<0.1	3	4	41
06273	Rock	4.44	4.26	<0.1	4.7%	31	56	60	<5	<3	22	<10	<2	<0.1	2	5	193
06274	Rock 8'	--	--	2.0	530	374	3	88	<5	<3	15	<10	13	<0.1	4	6	160
06275	Rock 4'	--	--	<0.1	224	3	4	<5	<5	<3	4	<10	<2	0.1	1	5	20
06276	Rock 2'	--	--	<0.1	124	4	2	<5	<5	<3	2	<10	<2	<0.1	2	3	7
06277	Rock 4'	1.72	1.68	0.8	18636	120	289	25	<5	<3	3	<10	5	<0.1	6	4	193
06278	Rock	2.36	2.22	0.7	2.2%	23	28	22	<5	<3	10	<10	2	0.1	40	12	113
06279	Rock 6'	--	0.23	0.5	2878	4	6	9	<5	<3	6	<10	<2	<0.1	10	3	25
06280	Rock 2'	--	--	<0.1	464	<2	6	11	5	<3	4	<10	<2	<0.1	2	5	29
06281	Rock 1'	2.55	2.44	<0.1	2.5%	22	34	9	<5	<3	8	<10	19	<0.1	9	6	35
06282	Rock 2'	--	0.89	0.2	9764	6	10	22	<5	<3	2	<10	<2	0.1	1	2	14
06283	Rock 1'	8.58	8.20	4.6	9.1%	19	80	10	<5	<3	18	<10	<2	<0.1	3	4	190
06284	Rock 10'	--	--	<0.1	463	12	17	13	<5	<3	4	<10	<2	0.6	3	3	17
06285	Rock 5'	--	--	<0.1	235	<2	6	8	<5	<3	5	<10	<2	<0.1	2	4	79
06286	Rock 15'	--	--	0.5	809	68	24	28	5	<3	20	<10	5	<0.1	22	12	35
06287	Rock 5'	--	--	<0.1	190	<2	11	<5	<5	<3	3	<10	<2	<0.1	6	3	17
06288	Rock 20'	--	--	0.2	585	<2	6	<5	<5	<3	2	<10	<2	<0.1	2	3	15
06289	Rock 3'	--	--	<0.1	34	<2	<1	5	<5	<3	3	<10	<2	<0.1	3	5	10
06290	Rock 2'	2.23	2.20	<0.1	2.3%	15	37	15	<5	<3	8	<10	<2	<0.1	2	6	147
06291	Rock Dump	1.96	1.96	<0.1	2.1%	24	25	259	<5	<3	14	<10	<2	<0.1	2	3	26
06292	Rock 15'	--	--	<0.1	1705	55	5	398	<5	<3	49	<10	3	<0.1	3	3	17
06293	Rock FM	1.26	1.19	<0.1	12252	37	12	194	<5	<3	8	<10	<2	<0.1	1	2	30
06294	Rock	--	0.38	<0.1	4152	9	35	11	<5	<3	4	<10	<2	<0.1	12	13	143
06295	Rock 5'	--	0.19	<0.1	2330	7	24	19	<5	<3	7	<10	<2	<0.1	9	8	110
06296	Rock 6' cond Clp	--	0.99	0.2	9735	11	14	18	<5	<3	11	<10	<2	<0.1	4	6	75
06297	Rock ?	--	0.56	<0.1	5956	12	41	20	<5	<3	6	<10	<2	<0.1	10	11	157
06298	Rock 1'	1.30	1.27	<0.1	13415	48	12	31	<5	<3	11	<10	<2	<0.1	1	1	12
06299	Rock 1'	--	--	1.3	217	8	1	7	5	<3	21	<10	<2	<0.1	2	5	26
06300	Rock 2'	--	0.33	<0.1	3808	10	11	23	<5	<3	4	<10	<2	0.1	1	2	34
06585	Rock	1.50	1.47	<0.1	15950	15	41	122	8	<3	2	<10	<2	<0.1	3	8	229
06586	Rock	--	--	0.1	1037	2	77	9	<5	<3	2	<10	<2	<0.1	15	17	395
06587	Rock 2'	--	--	3.6	213	7	<1	7	<5	<3	8	<10	<2	<0.1	1	3	135
06588	Rock 4'	1.82	1.77	<0.1	17591	10	46	11	5	<3	2	<10	<2	<0.1	11	13	329
06589	Rock	3.42	3.41	<0.1	3.5%	62	50	43	6	<3	11	<10	28	<0.1	45	9	975
06590	Rock 3'	2.20	2.17	0.4	2.3%	18	52	29	8	<3	4	<10	<2	<0.1	2	2	205
Minimum Detection		0.01	0.01	0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2
Maximum Detection		100.00	100.00	100.0	20000	20000	20000	10000	1000	10000	1000	1000	10000	10000.0	10000	10000	10000
Method		Assay	Assay	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

ONLY 2 DIGITS OF SAMPLE MAP

FULLY LABELED ON MAP

--=No Test ReC=ReCheck ins=Insufficient Sample m=Est/1000 %=Est % Max=No Est

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2036 Columbia Street
Vancouver, B.C.
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898

Report: 9200881 R Cambior Exploration USA, Inc. Project: 304

Sample Name	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
06268	<5	79	15	39	4	14	1	1	<0.01	0.34	0.07	2.55	0.09	0.30	0.01	0.02
06269	<5	98	15	38	5	58	<1	1	0.01	0.42	0.21	2.01	0.06	0.24	0.02	0.02
06270	9	99	19	34	3	39	<1	2	<0.01	0.41	0.17	2.11	0.05	0.21	0.02	0.03
06271	6	92	20	20	3	44	<1	1	<0.01	0.36	0.10	2.35	0.02	0.16	0.01	0.01
06272	10	47	33	170	<2	35	1	2	0.01	0.75	0.61	2.85	0.13	0.26	0.02	0.03
06273	31	54	28	195	<2	21	<1	1	<0.01	0.43	0.20	3.97	0.05	0.21	0.01	0.10
06274	46	125	70	32	<2	13	1	<1	0.01	0.08	0.11	10%	0.03	0.06	0.01	0.03
06275	5	124	8	28	6	9	<1	1	0.01	0.29	0.24	1.76	0.03	0.28	0.01	0.02
06276	21	62	12	22	22	10	<1	<1	0.04	0.27	0.06	6.1%	0.03	0.27	0.01	0.01
06277	11	92	17	180	7	14	<1	1	<0.01	0.40	0.37	2.36	0.07	0.30	0.02	0.09
06278	33	77	50	215	<2	23	<1	1	<0.01	0.33	0.12	8.9%	0.02	0.13	0.02	0.10
06279	13	119	16	57	3	24	<1	1	<0.01	0.30	0.16	2.92	0.03	0.24	0.02	0.03
06280	<5	59	39	47	3	19	2	1	0.01	0.59	0.30	4.89	0.05	0.26	0.02	0.03
06281	16	65	32	136	5	7	1	1	0.01	0.54	0.10	5.6%	0.14	0.30	0.01	0.07
06282	6	100	15	19	6	123	<1	1	<0.01	0.50	0.17	1.19	0.02	0.18	0.01	0.03
06283	31	93	20	18	<2	20	<1	2	<0.01	0.25	0.10	2.31	0.03	0.17	0.01	0.17
06284	<5	77	20	76	3	13	<1	3	0.01	0.36	5.23	1.62	0.10	0.18	0.03	0.05
06285	<5	118	22	47	3	42	<1	1	0.02	0.53	0.25	2.43	0.22	0.31	0.02	0.02
06286	31	126	39	266	4	23	1	1	0.01	0.35	0.56	7.2%	0.05	0.24	0.02	0.06
06287	<5	109	12	65	3	7	<1	1	<0.01	0.26	0.10	1.28	0.03	0.24	0.02	0.02
06288	<5	100	7	36	11	5	<1	1	0.02	0.27	0.02	2.67	0.02	0.27	0.02	0.01
06289	38	23	20	43	8	6	<1	1	0.01	0.30	0.03	8.9%	0.02	0.27	0.01	0.02
06290	13	66	28	62	<2	20	<1	1	0.01	0.63	0.20	2.56	0.14	0.31	0.02	0.07
06291	10	82	24	23	4	28	<1	1	<0.01	0.46	0.15	1.95	0.03	0.18	0.01	0.06
06292	11	43	47	38	3	86	2	<1	0.01	0.39	0.30	6.9%	0.02	0.18	0.01	0.02
06293	5	118	12	18	3	106	<1	<1	<0.01	0.38	0.09	0.75	0.01	0.13	0.01	0.04
06294	5	69	43	218	5	15	1	2	0.07	1.01	0.20	2.53	0.82	0.62	0.04	0.06
06295	5	61	38	73	<2	25	2	1	0.06	0.73	0.16	2.93	0.33	0.46	0.02	0.03
06296	17	64	37	42	2	27	2	1	0.03	0.54	0.12	2.56	0.17	0.33	0.02	0.04
06297	5	81	43	101	2	21	2	2	0.07	0.92	0.21	2.98	0.46	0.56	0.03	0.05
06298	13	60	18	25	3	49	<1	<1	<0.01	0.40	0.12	2.02	0.03	0.25	0.01	0.04
06299	45	75	22	27	3	20	1	<1	0.01	0.23	0.02	6.1%	0.01	0.19	0.01	<0.01
06300	19	107	14	26	4	77	<1	1	<0.01	0.35	0.03	1.63	0.03	0.29	0.02	0.02
06585	15	62	28	61	3	19	1	1	0.01	0.65	0.15	1.98	0.27	0.36	0.02	0.06
06586	<5	69	62	235	5	25	3	4	0.14	1.30	0.25	3.26	1.19	0.82	0.07	0.06
06587	11	92	8	16	4	23	<1	<1	<0.01	0.33	0.03	1.63	0.02	0.18	0.01	0.01
06588	9	40	51	126	5	35	4	3	0.09	1.22	0.19	3.28	0.64	0.63	0.03	0.06
06589	42	86	39	107	2	15	<1	1	<0.01	0.32	0.04	4.21	0.02	0.16	0.01	0.08
06590	13	92	8	36	4	10	<1	1	<0.01	0.23	0.07	1.21	0.02	0.20	0.01	0.06
Minimum Detection	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Maximum Detection	1000	10000	10000	10000	10000	10000	10000	10000	1.00	5.00	10.00	5.00	10.00	10.00	5.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ReC=ReCheck ins=Insufficient Sample m=Est/1000 %=Est % Max=No Est

INTERNATIONAL PLASMA LABORATORY LTD.

2036 Columbia Street
Vancouver, B.C.
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898

#304

Report: 9200881 R Cambior Exploration USA, Inc. Project: 304   Section 1 of 2

Sample Name	Type	Cu %	Ox Cu %	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm
06591	Rock	1.31	1.28	<0.1	12895	6	18	9	<5	<3	4	<10	3	<0.1	1	3	148
06592	Rock 15' } cond. chip.	--	0.88	0.3	8746	11	20	27	<5	<3	6	<10	4	<0.1	3	4	287
06593	Rock 15' } cond. chip.	--	--	0.5	1772	10	42	23	5	<3	3	<10	4	0.2	8	6	78
Minimum Detection		0.01	0.01	0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2
Maximum Detection		100.00	100.00	100.0	20000	20000	20000	10000	1000	10000	1000	1000	10000	10000.0	10000	10000	10000
Method		Assay	Assay	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ReC=ReCheck ins=Insufficient Sample m=Est/1000 %=Est % Max=No Est

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Maximum Detection		100.00	100.00	100.0	20000	20000	20000	10000	1000	10000	1000	1000	10000	10000.0	10000	10000	10000
Method		Assay	Assay	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ReC=ReCheck ins=Insufficient Sample m=Est/1000 %=Est % Max=No Est

RED HILLS MINING AREA
PINAL COUNTY AZ

GENERAL - The Red Hills Mining Area is a porphyry copper deposit within the Northern Cordilleran Region. Its location, T4S, R11E, Secs 26,27,28, is placed centrally within Arizona's Copper Belt. GRH(Gila Red Hills Mining) Redbird claims 1-88 substantially overlay the deposit as outlined in the 1983 Metallic Mineral Districts of Arizona Map issued by the Arizona Bureau of Geology and Mineral Technology, Geological Survey Branch. Its geology is representative of SW US porphyry copper deposits with quartz monzonite Laramide intrusives among a basement of Pre-Cambrian Granite. It is considered to be an excellent prospect for oxide copper which has never had any real attempts to prove up reserves thus far. Redbird 1-10 AMC lead File 313938, 11-88 #31560

LEGAL & ENVIRONMENTAL CONSIDERATIONS - The Red Hills deposit is a divided estate in which the surface rights are held by the State of Arizona through a deed from the U.S. Government under the 1934 Taylor Grazing Act. The Federal Government retained subsurface mineral rights which are administered by the BLM. A local rancher has a grazing lease over 11,000 acres of which GRH's 1750 are a part. In practice, mine operating permits are issued by the Arizona State Land Department, Minerals Division, who also set reclamation bonds. This department will deal with the grazing rights lessee if operating permits are applied for.

Recently passed Senate Bill 1053 is currently in effect which reinforces private property rights in Arizona. This law instructs state agencies to refrain from any capricious decision or delay which would amount to taking of private property rights, including mineral rights, without clear constitutional authority. For this reason, the Redbird claims may be much less subject to onerous regulation than a fully Federal mining claim. Also, in the November 3 election the electorate voted down a proposal which would have given the State of Arizona the discretionary authority to make land or surface rights exchanges to other government entities, including the US Government.

Neither the leach pad areas nor the 4000 gpm well have grandfathered rights. Operating the well requires a simple dewatering permit for which the granting agency needs to scrutinize its purpose. Leaching needs to conform to current permitting requirements under the BADCT system (Best Available Demonstrated Control Technology).

IMPROVEMENTS

1. Excellent roads to the claims.
2. Generally good roads on the claims.
3. 4000 gal/p/min well - 13 in casing. Depth 795 ft. Registered with state of AZ.
4. 3 phase power on site
5. Bermed up leach pad area. Concrete Holding pools.

PRODUCTION

There have been reported but unsubstantiated accounts of production of copper, gold and silver from the Red Hills area from WWI onward. However, documented production, 46,000 lb cu is only attributed to the year 1971 during the brief (90)day leaching operation conducted using the cementation process.

It is generally conceded that the 1971 project was ill-conceived, even more poorly designed, and unluckier yet due to a steep drop in the copper price. For the company involved, Red Hills Mining, it was their first and last time in the copper business after which the principals returned to the oil business. It is believed that tax shelter money was used to finance the project. There was unselective mining, extremely poor solution recovery, nonuniform crushing size, and soforth. The ore itself was reported to leach well.

AVAILABLE MAPS

1. Phelps Dodge geological and alteration map. (color) (1973)
2. Heinrichs Geoexploration geologic contact map drawn from aerial photograph (1970). Some drilling locations.
3. Metallic Mineral Districts map of AZ. Outline of Red Hills porphyry deposit in relation to twp range and sections.
4. USGS topo map - South Butte - From Aerials, outlines Redbird claims 1-88.
5. Gravity map.
6. Flood district map.
7. Geologic sketch map.
8. Cambior USA line test and sample map.
9. Pinal County aerial map.
10. Claim survey map (1969) useful for relating earlier geology reports referencing then existing claims.

GEOLOGY REPORTS

1. Geological reconnaisance report on the Arizona Copper Group Pinal County, Arizona. H.N. Wolcott PHx, AZ (12/30/1946)
2. 19 page report. A.P. Thompson, Oakland, CA (6/21/1950)
3. Proposal for exploration in the Red Hills Area, Pinal Co., AZ Paul Gilmour. 11/21/1969 Tucson, AZ.
4. Geology of the Red Hills Copper area, Pinal Co. AZ Phillip A. Laylander Tucson AZ. 3/12/1956.
5. Geology report (anonymous) received BLM office (1983) Red Hills Mining Area.
6. University of Wyoming, Anaconda Collection, 3 references.

FILE REPORT

AZ Dept of Mines and MIneral Resources, Phx, AZ - ALVAREZ FILE

The great majority of the deposit is in an area of minimal flooding as pictured on the flood district map, and as such is not a bar to a leaching permit.

Existing surface disturbance prior to GRH assuming its claims was photographed aerially in 1987 and is on file at the State Land Department, Minerals Division.

TITLE - The essential title History of the Red Hills District:

1941-1962	Acquisition by and under control of John Johnson & The Arizona Consolidated Gold & Copper Co.
1962-1969	Title dispute between Arizona Consolidated and the Alvarez Group. After litigation a 60-40 split agreed to, followed by a leaseout.
1969-1976	Both groups together lease to Bell Western Corp of Denver, subleased to Red Hills MIning, and later brief exploration deals with ASARCO and Phelps Dodge. These exploration deals searched an area several times wider than the Red HIlls deposit
1976	Claims are relocated by Troy W. Ray, who files quiet title suit against Alvarez Group and Arizona Consolidated.
1979	28 November, Civil Case 30134. Pinal County. Troy Ray granted title to Bonnie 1-86, Alvarez and Arizona Consolidated groups out.
1991	Bonnie Claims 1-10, alongwith Red Hills 1-142 declared abandoned. Income tax liens placed on Troy w. Ray believed to be connected with abandonment.
1992	Feb, March, April - Annual assessment work performed by GRH for Redbird 1-88 located in May, June 1991.

Rex E. Loesby, P.E.
642 Surrey Road
Carbondale, Colorado 81623
Telephone: (303) 963-2344
Fax: (303) 963-1867

Background and Current Business

Mr. Loesby has seventeen years experience in the Mining and Finance businesses with work at Climax Molybdenum Company (AMAX), Rocky Mountain Energy (Union Pacific Corporation), Smith Barney, Harris Upham, Inc., and Colorado Yule Marble Company (CYMC). He was a principal and VP of Operations at CYMC where he obtained all mining permits, helped raise $5 million for project financing, and supervised construction and initial operation of the mine. Mr. Loesby has a Bachelors Degree in Mining Engineering and a Master of Business Administration with emphasis in Finance and International Business, both from the University of Washington. He attended Law School at the University of Denver College of Law where he emhpasized natural resources law, and he taught courses in Investments to Seniors and Graduate Students at the University of Colorado at Denver. He holds a Professional Engineering License in Colorado.

Mr. Loesby's business involves helping companies or individuals obtain development funds for promising mineral properties. Mr. Loesby has developed contacts with over 150 mining and investment companies which have expressed current interest in financing new mining projects. He has developed strong working relationships with these companies to determine their preferred size, type, and location of mining projects. Thus, the mining property owner can be assured that information on the project will be presented to a number of pre-qualified investors quickly and effectively. Mr. Loesby's service saves the mineral property owner an immense amount of effort, not only in getting information on the mineral property in front of the right people, but also in eliminating needless presentations to uninterested parties.

Mr. Loesby works with the owner of the mineral property under two alternative fee arrangements. First is a non-exclusive finder arrangement under which no fee is paid unless an agreement is reached with an investor. Fees are typically based on the amount of funds raised for the project. Second is a consulting fee arrangement under which a flat fee is paid by the property owner in advance for the service of presenting the property to appropriate potential investors. Additional services, such as helping with the negotiation of an agreement, are available at an hourly or daily rate. Under either fee arrangement any information which the owner wishes to keep confidential can be protected by confidentiality provisions in the fee agreement.

References

Mr. William R. Hinken, Resident Manager, Climax Mine
12 West 9th Street, Leadville, Co 80461, (719) 486-1778

Mr. Kevin Loughrey, General Counsel, Cyprus Minerals, Inc.
PO Box 3299, Englewood, Co 80155, (303) 643-5062

Mr. James D. Hansink, Barton Mines Corporation
1658 Cole Boulevard, Golden, Co 80401, (303) 233-1145

Mr. Duncan Ogden, Chief Geologist, Vermont Marble Company
61 Main Street, Proctor, Vt 05765, (802) 459-3311 (Ext. 185)

STATE OF ARIZONA
DEPARTMENT OF MINERAL RESOURCES
MINERAL BUILDING, FAIRGROUNDS
PHOENIX, ARIZONA 85007

T gu

RED HILLS MINING CO.

J. H. Jett conference with Murriell Smith - April 5, 1972

Mr. Bob Kennedy is acting President of the company. Paul Cook is no longer with the company.

Mr. Hill decided their leach system was not working very well so they will go out of the copper business and start an aggregate business.

Mr. Hill and the Texas firm said they wanted to buy Mr. Smith's part of the lease from Bell Western and also buy it from Mr. Smith.

Mr. Smith appears to doubt this and stated confidentially that he and his partners are attempting to break the original contract with Bell Western. If this is done M. C. of C. and V. L. has a potential client for the property.

The equipment at the mine is being auctioned. It belonged to Red Hill personally and was leased.

Telephone conf. with Don Kennedy 5-10-72
Gen.Mgr., Red Hills Mining JHJ
Box 61, Florence, Arizona

Completely shut down the mine, Presently deep hole drilling. Finished a second hold at 1452 ft. Hit sulfide mineralization some 0.2 Cu. Trying to raise money forfuther deep drilling. Going to do IP work to 3,000 ft. to lay out drill pattern.

Royce McCrary completely out. Head of the company is a Artic McMillan of Houston.

$750,000 put in the project - nothing was done right from type of concrete used to size of pipe. The water lines were put through middle of leach pits. Material on heaps ran 0.15 rather than 0.40, 26% water recovery, designed for 10,000 lbs. per day capacity but calculations show maximum is 2,500 lbs. Equipment could not handle this production figure.

Need 10 cubic feet of cell per gpm flow. Office at the mine in a trailer. Mr. Kennedy lives in Coolidge.

ZONA DEPARTMENT OF MIN RESOURCES
Mineral Building, Fairgrounds
Phoenix, Arizona

1. Information from: H. H. ODIORNE PRES. BELL WESTERN CORP
   Address: SUITE 306 · 200 FILLMORE, DENVER COLO.
2. Mine: RED HILLS FLORENCE AREA 3. No. of Claims - Patented
   180 CLAIMS Unpatented 180
4. Location: APROX 10 MI E. FLORENCE
5. Sec. Tp. Range 6. Mining District RED HILLS
7. Owner: BELL WESTERN CORP.
8. Address: SUITE 306 · 200 FILLMORE DENVER
9. Operating Co.: B.W. (EXPL. STAGE AT PRESENT)
10. Address: SAME
11. President: H. H. ODIORNE 12. Gen. Mgr.: O.L. HILL
13. Principal Metals: CU 14. No. Employed: EXPL.
15. Mill, Type & Capacity: EXPL & DEV.
16. Present Operations: (a) Down ☐ (b) Assessment work ☐ (c) Exploration ☐
    (d) Production ☐ (e) Rate tpd.
17. New Work Planned: EXPL, DRLG, TRENCHING & EVAL.
18. Miscl. Notes: AIR PHOTO SURF STUDIES ASSAYS
    24 VALID HOLES DRLD & ASSAYED

Date: June 17, 1970

(Signature) (Field Engineer)

STATE OF ARIZONA
DEPARTMENT OF MINERAL RESOURCES
MINERAL BUILDING, FAIRGROUNDS
PHOENIX, ARIZONA 85007

COPY

May 26, 1971

Mr. Jerry Fountain, Manager
Capitol Wire and Cable
P. O. Box 580
Casa Grande, Arizona 85222

Dear Mr. Fountain:

Mr. Pittman asked if I could find out who got the lease on the Gila River Indian Reservation, bid opening March 1, 1971. As yet there has been no formal aware. There was only one bidder - a Mr. L. M. Sullivan of Scottsdale. AS & R was a visitor at the bid opening but did not bid. I understand there has been verbal acceptance but not official, as yet.

We have a good file on the Red Hills property, including geological reports and assay reports. They are available for your inspection in our office.

I talked to a Mr. Murrell Smith, secretary of the Chamber of Commerce in Mesa. He is one of the owners of the property. He suggested you get in touch with one of their attorneys, a Mr. Ken Flickinger, Jr., 203 East Earll Drive, Phoenix, telephone 264-3231.

The owners leased the property in October of 1969, on a 9-year lease, to a Bell Western Corp. in Denver. Bell Western ran into financial difficulties and was eventually bought by Glascock Oil Co. of Texas. Bell Western then sub-leased to Red Hills. Their contract had one sub-lease provision.

There are two groups that own the property. The property was tied up in litigation but they compromised and got together. Mr. Flickinger speaks for both groups. The one group I spoke to seemed to favor selling. If you are interested you can start with Mr. Flickinger. You can tell him where you got the information. Our reports will be open for your study.

Very truly yours,

JOHN H. JETT,
Director.

lmb

Telephone conf. with Don Kennedy
Gen.Mgr.,Red Hills Mining
Box 61, Florence, Arizona

5-10-72
JHJ

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FILED
MAR 23 1964

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine ALVAREZ CLAIMS Date 1/22/64

District FLORENCE DIST., PINAL COUNTY Engineer Lewis A. Smith

Subject: Mine Visit with Murrell Smith (Ariz. Dev. Board). 1/22/64

PROPERTY: 32 unpatented claims (work done for 1963)

LOCATION: SE¼ S-33, T4S, R11E.

ACCESS: Travel east to southeast, on Kelvin-Florence Hwy., for 10.2 miles and thence, north 3.4 miles on a narrow graded road that terminates at the ranch house 3/4 mile northwest of the mine area.

OWNERS: Ben and Frank Alvarez & Jess Bird who live in a trailer court at Alma School Rd. and W. Main Street, Mesa, Ariz.

WORK: (1) A 300-ft. shaft, inclined at 45 deg. N, is apparently well timbered and is open down to the water level.

(2) A 175-ft. shaft lies about ½ mile east of (1) and is not in very good condition even though apparently open.

(3) 70-foot adit, coursing nearly N-S, is situated about ¼ to 3/8-miles NW of (1). This was used as a powder magazine.

(4) Several shallow bulldozer cuts were made in order to remove soil covers for a look at the bedrock. These, while shallow, cover much of the south half of the property.

(5) Several shallow pits, short adits and cuts are well distributed over the claims.

TOPOGRAPHY: The claims blanket a group of low hills that are no more than 100 ft. higher in elevation than the surrounding mesa or plain. These hills are more or less rolling and are bordered on the east and west by large washes that drain into the Gila River a few miles to the north. "Barbed" consequent gullies, about parallel to each other, project into the flanks of the hills on the east and west. These follow the less silicified zones that lie between the more or less parallel shear zones and dikes. The shears stand in locally higher refief due to silicification of the country rock along them and in the contact zone bordering the dikes. A strong fault, that offsets the shear zones and dikes, trends roughly N 20-25 deg. W through the center of the area. A separate set of parallel gullies feed a larger wash that follows the fault course. Some of these, on the east side of the fault, flow diagonally in the opposite direction to the fault or axial stream. On the other (west) side, the gullies flow in the same direction diagonally into the fault stream. Most smaller gullies are short and have much steeper gradients than the main washes. The intervening roughly parallel ridges are consequently narrow and steeply sloped and are separated along the two resultant main hill lines by shallow and narrow saddles. The crests of the two main ridge claims are, therefore, roughly serrated.

ROCKS: The mineralized area is roughly 1½ miles long and ½ to 5/8 of a mile wide, trending about N 25-30 deg. W. Most of this area is occupied by a gray, more or less, porphyritic rock that, upon superficial obsefvation, appears to be monzonite or monzonite porphyry. The rock texture varies from graphic to fine-grained, but the

graphic phase appears to be in a zone that is near to the top of the intrusive mass. In the deeper drainage channels this monzonite (?) is generally finer-grained in texture. The rock is cut by numerous, roughly parallel shear zones and dikes that generally trend about N 60-70 deg. E and dip variably at steep angles both to the SE and NW. Usually the dike outcrops are intermittently exposed. Some are composed of intermediate material, such as andesite (?) while others appear to be diabasic. The andesite (?) is on the basic side. Silicification, along the shears and dike contacts is sufficiently strong to sometimes form quartz veinlets, or small blebs. This process decreases to a much less amount out in the intervening monzonite (?) zones. Some strong silicified bands reach up to 30 feet wide. More commonly the contact-silicified bands, along the dikes, contain most of the chrysocolla showings, whereas, this mineral appeared to be much less prevalent in the sheared zones. Kaolinization of the feldspars in the monzonite (?) is more prevalent next to the dikes or in the shear bands, but is also fairly prevalent in the intervening areas. Limonite, mostly derived from sulphides, is also more prevalent in the shears and contact zones. This limonite indicates strong pyrite, with some copper. The limonite is in fracture coats, thin stringers and occasional lenses. Where the monzonite is less silicified and kaolinized, in the intervening areas, the limonite also is noteably less prevalent and where present, it is less concentrated. The limonite locally is of the "relief" type, or was probably derived from chalcocite, or argentite, or both, and this is very locally, strongly concentrated. Much more of the limonite is of the type that was derived from sulphides that had an iron; copper or iron; silver ratio of $4\frac{1}{2}$-7 to 1. More than half of the observed limonite had a higher iron; copper ratio. Sometimes "halo-banding" of the limonite around original sulphide occurrences is seen in the shear zones and particularly along fractures. The concentration of so much of the limonite near, or in, the shears, or dike contacts give the impression that the mineralization is, to a large degree, concentrated in bands with wider intervening areas in which it is considerably less concentrated. However, where workings penetrated deeper below the immediate outcrops, more limonite appears than was evident at the surface. This situation is not uncommon in areas where erosion and weathering have been active for a long time. In some observed cases, in similar rocks, elsewhere, "whipping out" of nearly all of the limonite may extend downward to several feet. Even, with this in mind, the concentration in the intervening belts here still appears to be noteably less. Therefore, the tenative conclusion, in the absence of drilling, is that the intervening areas would, at least, be low grade and the more mineralized bands, or areas, would have to carry them. Two specific areas, one around the inclined shaft and one in the north central portion, appear to be more intensely mineralized than the rest of the property. The shear zones in these areas, are closer together and the limonite concentration is greater. These would also be more prospectable. A few drill holes, in these two better areas should determine their worth.

The mine is reported to have yielded some good silver during the early days along with gold values. This was mostly shipped to Magma Smelter. Small piles of chrysocolla-bearing material are present in several places. The gold is reported to have come from workings in the SE portion and was preferably in a yellow quartz, or younger quartz vein. The older white "bull" quartz does not generally appear to be much mineralized.

DIAMOND DRILL CORE LOG SHEET

Drill Hole No.: 2 Date Started: ____ Location: ____ Depth: ____

TERVAL	CORE REC. %	DESCRIPTION	MINERALIZATION: FeS_2	FeO_x	CuO_x	CuS	ASSAYS-P. TOT. CU	OX. CU
		Good chalcopyrite in places but spotty. Considerable biotite. Shear zone @ 1566'.						MO
70-1580	100%	Ditto above. Fract @ 1574'. Strong chloritization in places. Quartz-pyrite sericite vein @ 1574.5'.	X	Nil		X	0.147	7
80-1590	91%	Ditto above, increase in chloritization. Chalco still weak but good veinlet (± 1/16") @ 1586'. Good MoS_2 @ 1589' Chalco stronger (?) than previous runs.	X	Nil		X	0.297	36
590-1600	98%	Ditto above. Moderate to strong chloritization whole run. Good MoS_2 @ 1596.5'. New K-spar spotty as in previous runs.	X	Nil		X	0.227	72
600-1610	97%	Ditto above. Brecciated fault zone starts @ 1601', massive chlorite (some diabase ??) 1607'-1610'. Good sericite in places. Excellent chalcopyrite @ 1605'. Fault zone ends ± 1608'.	X	Nil		X	0.197	87
610-1620	94%	Diabase 1610'-1615', then fresh pre-Cambrian "Oracle" granite 1615'-1620'. Very weak chalco and pyrite. Minor epidote as in previous runs.	X	Nil		X	.145	1
620-1630	105%	Ditto above, fresh "Oracle" granite. Nil pyrite and chalcopyrite. Increase in epidote, strong biotite as previous runs. Small 2"-3" breccia zone @ 1628'.	X	Nil		X	.80	2
630-1640	100%	Ditto above, fresh "Oracle" granite, nil sulphides.	X	Nil		X	.30	6
640-1650	100%	Ditto above. Perhaps slight increase in pyrite.	X	Nil		X	.195	2
650-1660	100%	Ditto above. Fair chalco 1659'-1660', nil elsewhere.	X	Nil		X	.200	5
660-1670	100%	Ditto above.	X	Nil		X	.90	1
670-1680	100%	Ditto above. Some aplite-pegmatite. Nil sulphides.	X	Nil		X	.50	5
680-1690	95%	Ditto above. Good epidote. Fract @ 1685'.	X	Nil		X	.70	2
690-1700	100%	Ditto above. Nil sulphides.	X	Nil		X	.130	4
700-1710	100%	Ditto above. Some aplite-pegmatite.	X	Nil		X	.60	1
710-1720	93%	Ditto above. Nil sulphides.	X	Nil		X	.35	-1

DIAMOND DRILL CORE LOG SHEET

Drill Hole No.: 2 Date Started: ____ Location: ____ Date: ____

Interval	Core Rec. %	Description	Mineralization: FeS_2	FeO_x	CuO_x	CuS	Assays-%: Tot. Cu	Ox Cu	
1730-1740	100%	Ditto above.	x	Nil		x	200		5
1740-1750	95%	Ditto above. Slight increase in FeS_2 and $CuFeS_2$	x	Nil		x	230		8
1750-1760	100%	Ditto above. Sulphides about same.	x	Nil		x	280		7
1760-1770	100%	Ditto above. Sulphides slightly weaker(?)	x	Nil		x	110		6
1770-1780	92%	Ditto above. Nil sulphides.	x	Nil		x	30		1
1780-1790	94%	Ditto above. Weak to moderate argillization	x	Nil		x	100		5
1790-1800	93%	Ditto above. Driller lost circulation @ 1792', bit small under floor. Substantial increase in pyrite from previous run, fair increase in chalcopyrite. Steep SiO_2 vein @ 1792.5'. Fract zones @ 1793' and 1796.5'. Spotty new K-spar, moderate alteration.	x	Nil		x	0.11%		6
1800-1810	95%	Ditto above, sulphides about same.	x	Nil		x	220		1
1810-1820	100%	Ditto above but rock is fresher and less altered. Drop in sulphide content. Rock very competent	x	Nil		x	135		3
1820-1830	100%	Ditto above, fault gouge (± 4") @ 1830'.	x	Nil		x	110		1
1830-1840	100%	Ditto above. Very low sulphides. Fract @ 1832'.	x	Nil		x	110		9
1840-1850	55%	Ditto above, but fair increase in both pyrite and chalcopyrite from previous run. Excellent chalco @ 1843' associated with new (?) K-spar. Fract @ 1842'. Moderate chloritization. Mis-latched core barrel, poor core recovery	x	Nil		x	0.17%		132
1850-1860	94%	Ditto above, but rock is fresher and sulphides not as predominant.	x	Nil		x	80		3
1860-1870	100%	Ditto above.	x	Nil		x	90		1
1870-1880	85%	Ditto above, sulphides weaker(?). Steep sulphide associated with salmon pink K-spar (New?) @ 1872'-1873'.	x	Nil		x	95		3
1880-1890	100%	Ditto above, very weak sulphides, rock fresh & competent.	x	Nil		x	60		2
1890-1900	94%	Ditto above. Fract @ 1893'.	x	Nil		x	70		1
1900-1910	89%	Ditto above. Driller messed up fast head core barrel.	x	Nil		x	150		4
1910-1920	88%	Ditto above. Weak chloritization.	x	Nil		x	265		2
1920-1930	55%	Ditto above. Fract @ 1924'-1925'. Minor [illegible]	x	Nil		x	405		1

DIAMOND DRILL CORE LOG SHEET

Drill Hole No.: 2 Date Started: Location: Dip:

INTERVAL	CORE REC. %	DESCRIPTION	MINERALIZATION: FeS_2	FeO_x	CuO_x	CuS	ASSAYS: Tot Cu	Ox Cu	MO
930-1940	61%	Fresh Pre-Cambrian, porphyritic "Oracle" granite. Spotty new K-spar throughout run. Weak chloritization. Sulphides still weak, better values associated with stronger new K-spar areas.	X	Nil		X	220		2
940-1950	100%	Ditto above.	X	Nil		X	570		7
950-1960	90%	Ditto above. Spotty epidote as in previous run.	X	Nil		X	400		2
1960-1970	100%	Ditto above, small SiO_2-FeS_2-$CuFeS_2$ veinlet @ 1964.	X	Nil		X	160		11
1970-1980	100%	Ditto above. 1/4" SiO_2 vein @ 1971'.	X	Nil		X	310		8
1980-1990	97%	Ditto above, new K-spar still spotty.	X	Nil		X	850		9
1990-2000	96%	Ditto above, excellent (strong) chalcopyrite 1997'-2000', associated with steep SiO_2-FeS_2-chlorite vein (some visible MoS_2). Fairly good new K-spar last 3' of run.	X	Nil		X	.57%		123
2000-2010	98%	Ditto above, significant drop in sulphides. Minor pegmatite @ 2009', epidote on fracts. Weak new K-spar.	X	Nil		X	635		2
2010-2020	93%	Ditto above, stronger chloritization. Chalco weak. Minor fingers of silicification, some brecciation.	X	Nil		X	320		1
2020-2030	95%	Ditto above, rock more strongly altered (due to fault zone?). Increase in chalcopyrite from previous run. Sand & rubble 2023'-2024'. Minor seams of chlorite, biotite and plagioclase moderately alleridized.	X	Nil		X	360		1
2030-2040	102%	Ditto above, sulphides weak, very spotty new K-spar.	X	Nil		X	670		6
2040-2050	99%	Ditto above.	X	Nil		X	75		4
2050-2060	92%	Ditto above. Fracts @ 2057', 2058' & 2059'. Minor silicification, rock appears sheared in places. Steep FeS_2-$CuFeS_2$ veinlet @ 2050.5'. Minor epidote as in previous runs. Sulphides still weak.	X	Nil		X	215		8
2060-2070	100%	Ditto above. Sulphides very weak. Fairly strong epidote. Due to shearing and alteration rock appears quite different from previous runs, grey-black with large pink K-spar phenos.	X	Nil		?	20		3
2070-2080	100%	Ditto above, sulphides stronger. Fracts @ 2072', 2077' & 2079'.	X	Nil		X	.13%		4
2080-2090	97%	Ditto					300		1

DIAMOND DRILL CORE LOG SHEET

Drill Hole No.: 2 Date Started: Location: Depth:

Interval	Core Rec. %	Description	Mineralization FeS2	Mineralization FeOx	Mineralization CuOx	Mineralization CuS	Assays-PPM Tot. Cu	Assays-PPM Ox Cu	Au
0-2100	95%	Ditto above, fracts @ 2095', 2099', & 2100'.	X	Nil		X	40		3
0-2110	95%	Ditto above to 2107', then Pre-Cambrian (?) diabase. Very scar sulphides. Weak to moderate chloritization of diabase. Numerous small fractures	X	Nil		X	140		1
0-2120	94%	Diabase to 2118' then (inclusion) pre-Cambrian "Oracle" granite to 2120'. Rubble (fault zone) from 2116' to 2117'. Chalcopyrite veinlet ± 1/16" in diabase @ 2117'. Oracle granite strongly fractured and altered. Numerous fine veinlets of calcite in diabase.	X	Nil		X	15%		41
0-2130	100%	Oracle granite inclusion to 2126' then diabase to 2130'. Fairly good chalcopyrite in granite in places (fracture coating), nil in diabase. Strong epidote in diabase.	X	Nil		X	230		-1
-2140	100%	Fresh diabase. Quartz-Epidote vein 2130'-2131'. Nil sulphides.	X	Nil		?	30		1
40-2150	94%	Ditto above. Chloride on fractures	X	Nil		?	10		1
50-2160	100%	Ditto above. Strong epidote and calcite filled fractures 2158'-2160'. Low sulphide content. Fracts @ 2155', 2158' and 2159'. Red hematite on some fractures.	X	Nil		X	-5		-1
160-2170	76%	Ditto above. Strong epidote to 2164' then diabase is fresh with chlorite on fracts. Strong fracts @ 2163' and 2168'. Calcite seams to 1/16".	X	Nil		?	10		-1
170-2180	97%	Fresh diabase. Very little sulphides	X	Nil		?	-5		-1
180-2190	100%	Ditto above. Minor calcite seams. Chloride on fracts	X	Nil		?	60		-1
190-2200	98%	Ditto above. Nil sulphides	X	Nil		?	60		-1
200-2210	84%	Ditto above.	X	Nil		?	60		-1
210-2220	90%	Ditto above. Vertical FeS2 veinlets @ 2219'	X	Nil		X	130		-1
220-2230	95%	Ditto above. Fract @ 2228'	X	Nil		?	60		5
230-2240	97%	Ditto above. Strong epidote 2236'-2240'. Slight increase in FeS2 (epidote area). Minor fracts.	X	Nil		X	50		4
240-2250	50%	Ditto above, strongly fractured. Weak to strong chloritization. Strong epidote 2240'-2244'.	X	Nil		X	70		6
250-2260	95%	Ditto above. Few chlorite @ 2256.5'. Strong SiO2 [illegible]	X	Nil		X	220		7

Diamond Drill Core Log Sheet

Drill Hole No.: 2 Date Started: Location: Depth:

Interval	Core Rec. %	Description	Mineralization FeS2	Mineralization FeOx	Mineralization CuOx	Mineralization CuS	Assays Tot. Cu	Assays Ox. Cu
0-2270	89%	Ditto above, increase in sulphides. 3/8" chalco vein @ 2268'. Strong fracts @ 2261' and 2268'-2269'. Fairly strong chloritization.	X	Nil		X	No A from Very li visible Sulphid	
70-2280	87%	Ditto above, strongly fractured. Appear to be into fault zone starting @ 2280'.	X	Nil		?		
80-2290	50%	Ditto above. Entire run fault zone, strong chloritization. Nil sulphides, calcite seams as before.	X	Nil		?		
90-2300	39%	Ditto above.	X	Nil		?		
00-2310	60%	Ditto above.	?	Nil		?		
10-2320	60%	Ditto above.	X	Nil		?		
20-2330	90%	Ditto above, fault zone ends @ ± 2324'. Then diabase weakly to strongly chloritized interlaced with calcite seams. Sulphides very spotty.	X	Nil		X		
30-2340	92%	Ditto above (2324'-2330'). Numerous fracture zones and some slick surfaces.	X	Nil		?		
40-2350	94%	Ditto above.	X	Nil		X		
50-2360	94%	Ditto above. Two sets of fracts (as in previous runs) one set 70°-90° or parallel to hole, other set 20° to 40° to hole. Sulphides weak and spotty; chalcopyrite associated w/ steep fracts.	X	Nil		X		
60-2370	91%	Ditto above. Rock little fresher and more competent. Sulphides still weak but good chalcopyrite associated with steep SiO_2-Feldspar veinlet @ 2368', ± 1/4" vein.	X	Nil		X		
70-2380	90%	Ditto above, minor inclusions of pre-Cambrian granite. Chill zone exhibited in diabase indicating it is younger than granite. Fract @ 2372'.	X	Nil		X		
80-2390	92%	Ditto above, considerably more inclusions of granite. Entire run moderately fractured. Best chalco visible in granite.	X	Nil		X		
90-2400	93%	Ditto above, mixed diabase & granite. Some silicified areas. Granite sheared and altered, chloritized in places. Some of pink K-spars appear to have altered to albite(?). Minor fract zones.	X	Nil		X		
[illegible]	95%	Ditto above. [illegible]						

Diamond Drill Core Log Sheet

Hole No.: 2 Date Started: Location: Depth:

AL	Core Rec. %	Description	Mineralization: FeS_2	Mineralization: FeOx	Mineralization: CuOx	Mineralization: CuS	Assays: Tot. Cu	Assays: Ox Cu
422	91%	Entire run pre-Cambrian DIABASE. Strong chlorite on fractures and interlaced with calcite seams. Moderately to strongly fractured.	X	Nil		?		
2430	100%	Ditto above, sulphides nil.	X	Nil		?		
2440	98%	Ditto above to 2437' then pre-Cambrian "Oracle" granite. Strong epidote in granite in places, spotty. Granite moderately chloritized and some pink K-spars altered to albite (?). Minor silicification. Nil sulphides.	X	Nil		X		
2450	100%	Ditto above, pre-Cambrian granite. Very spotty new K-spar. Nil sulphides.	X	Nil		X		
2460	95%	Ditto above	X	Nil		X		
2470	95%	Ditto above. Minor fracts. Small slip @ 2461'.	X	Nil		X		
2473	70%	Ditto above. Fault zone 2471'-2473'.	?	Nil		?		

END OF HOLE 2473'.

Diamond Drill Hole RH 2 #RH2

Diamond Drill Core Log Sheet

Drill Hole No.: 2 Date Started: 2/17/72 Completed: 5/1/72 Location: In Survey Hole Grid Dist: 1462

Interval	Core Rec. %	Description	Mineralization FeS2	FeOx	CuOx	CuS	Assays Cu	Au
0-12	0%	Placing collar pipe. No core or sludge. Overburden						
12-20	0%	Overburden and weathered material. Approx 4" core, equigranular Precambrian granite.				12-17	100	70
20-30	0%	"Oracle" granite. Run primarily quartz and feldspar sand.				17-40	85	60
30-40	0%	Entire run quartz-feldspar sand.					105	80
40-50	0%	Ditto above.				50-57	155	110
50-60	0%	Ditto above. Few pieces of rubble - Oracle granite.						
60-70	0%	Ditto above.				57-90	110	80
70-80	0%	Ditto above.						
80-90	0%	Ditto above.						
90-100	47%	Ditto above to 91.5'. Strongly fractured, equigranular "Oracle" (?) granite to 100'. Moderate argillization of feldspars, good clots of biotite (some chlorite). Some FeOx (after pyrite?) veinlets.	M				300	170
100-110	65%	Ditto above. Granite becoming more coarse-grained & porphyritic. Some manganese staining.	W+				170	90
110-120	17%	Ditto above. Strong gouge @ 117'.	M				410	200
120-130	18%	Ditto above.	W				200	110
130-140	7%	Ditto above except fine-grained (aplite?).	W				60	30
140-150	67%	Ditto above, strongly fractured, porphyritic Oracle granite. Moderate to strong argillization, strong clay seam @ 144.5'. Silt vein @ 141'.	M				110	55
150-160	45%	Ditto above.	W				100	60
160-170	50%	Ditto above.	W				170	140
170-180	85%	Ditto above. Biotite altering to chlorite and sericite in places. Some FeOx veinlets.	M				260	130
180-190	67%	Ditto above. Rock more competent than previous run. Few disseminated grains of FeS2. Some specimens have slide as in previous runs.	X	M			140	100
190-200	100%	Very fresh, porphyritic "Oracle" granite with feldspar (orthoclase) to 1". Considerable FeS2 in veinlets and disseminated grains.	X	W		X?	85	10

Diamond Drill Core Log Sheet

Drill Hole No.: 2 Date Started: _____ Location: _____ Depth: _____

Interval	Core Rec. %	Description	Mineralization FeS2	Mineralization FeOx	Mineralization CuOx	Mineralization CuS	Assays Tot. Cu	Assays Sol. Cu
		biotite (sulfidization of biotite?) Questionable MoS2. Chalcopyrite @ 199' (?).						
200-210	94%	Ditto above. Medium argillization in places.	X	W			240	30
210-220	100%	Ditto above. Drop in FeS2 - no veinlets all is disseminated. Good chlorite in places	X	W-M			80	30
220-230	100%	Ditto above. Some quartz veinlets @ 227'. Strong FeS2 - sericite veinlet 227'-229'	X	W-M			230	14
230-240	79%	Ditto above. VERY minor FeS2.	X	M			80	7
240-250	80%	Ditto above. Somewhat more FeS2. Fresh unaltered granite.	X	W-M			100	45
250-260	100%	Ditto above. Strong fracture @ 253'.	X	W-M			80	40
260-270	98%	Ditto above. Rock fresh for nearly whole run - K-spars to 1½". FeS2 content rising - all disseminated blebs.	X	W			65	30
270-280	100%	Ditto above but granite equigranular, few large K-spars. Good FeS2, some veinlets.	X	W-M			110	30
280-290	100%	Ditto above, several large K-spar phenos in run. Strong fracture @ 283'.	X	W			215	85
290-300	92%	Ditto above, drop in FeS2. Strong fract @ 296'	X	W			30	20
300-310	92%	Ditto above, good increase in FeS2. Rock very fresh and equigranular most places - spotty large K-spars. Feldspar - FeS2 veinlet ± ½" cuts large K-spar pheno @ 303'.	X	W			130	15
310-320	100%	Ditto above.	X	W			160	10
320-330	94%	Ditto above.	X	W+			30	5
330-340	81%	Ditto above, very little pyrite. Fault gouge 339'-339' 1"-3" dike "Silt & Rock" rock @ 332'.	X	W-M			65	40
340-350	90%	Ditto above, little pyrite. Strongly fractured. Medium to strong argillization. Minor epidote.	X	W			130	90
350-360	12.1%	Ditto above, good increase in FeS2. Considerable large K-spar phenos. Moderate to strong fractures.	X	W+			23[illegible]	22[illegible]
360-370	81%	Ditto above. Rock equigranular in several places. Good chlorite - sericite. Fault gouge starts @ 369' [illegible]	X	M-			60	50

Red Hills Mining Corporation

Diamond Drill Core Log Sheet

Drill Hole No.: 2 Date Started: — Location: — Depth: —

Interval	Core Rec. %	Description	Mineralization FeS_2	FeO_x	CuO_x	CuS	Assays - F. Tot. Cu	Ox Cu
		Vein @ 369' Medium to strong argillization.						
370-380	+100%	Typical fault breccia whole run. Good FeS_2 and SiO_2 veinlets. MoS_2 @ 371'.	X	W			40	40
380-390	91%	Ditto above. Questionable MoS_2 in places.	X	W			25	20
390-400	57%	Ditto above.	X	W			50	40
400-410	75%	Ditto above.	X	W			10	5
410-420	77%	Ditto above.	X	W			30	20
420-430	100%	Ditto above, rock primarily massive chlorite with fragments of original country rock. Numerous FeS_2 cubes.	X	W			65	40
430-440	90%	Ditto above to 433' then strongly chlorit-ized pre-cambrian granite (breccia ?) to 440'. Strong FeS_2.	X	W			190	55
440-450	+100%	Ditto above (433'-440'). Good MoS_2 @ 441'.	X	W			340	100
450-460	90%	Ditto above to 456'. Definite chalcopyrite @ 452' and definite MoS_2 @ 456.5'. SiO_2 vein 455'-456' (steep dipping). Very fresh (some chloritization of biotite) porphyritic pre-Cambrian "Oracle" granite 456'-460'. SiO_2 vein seems to be boundary for alter-ation and FeS_2 content also drops off below (F.O.) vein.	X	W		X	100	30
460-470	100%	Ditto above (456'-460'). Fairly strong chlorite zone 460'-465'.	X	W			80	40
470-480	94%	Fresh porphyritic, pre-Cambrian granite. Nil FeS_2.	X	W			25	10
480-490	100%	Ditto above, minor epidote. ± 3/8" SiO_2 vein 486'-487' (steep dip). Disseminated blebs of chalcopyrite @ 482' & 488'. Good biotite that is mostly chloritized in places.	X	W		X	30	10
490-500	93%	Ditto above. Some chalcopyrite @ 490.5' & 493'.	X	W		X	60	10
500-510	93%	Ditto above. FeS_2 coarser than previous two runs. Minor chalcopyrite @ 510'.	X	W		X	40	10 6
510-520	100%	Ditto above. ± 1/2" SiO_2 vein 510'-511' chalco-	X	W		X	105	10 9

DIAMOND DRILL CORE LOG SHEET

Drill Hole No.: 2 Date Started: _____ Location: _____ Date: _____

INTERVAL	CORE REC. %	DESCRIPTION	MINERALIZATION				ASSAYS-F		
			FeS_2	FeO_x	CuO_x	CuS	TOT CU	OX CU	
520-530	90%	Ditto above. Aplite dike (8") with FeS_2 @ 521'. Chalcopyrite appears to be a little stronger.	X	W		X	140	30	6
530-540	123%	Ditto above. SiO_2-sericite-FeS_2 veinlet @ 536' (FeS_2 cubes to 3/4"). Increase in FeS_2 and chalco about same as previous run. Chloritization little stronger.	X	W		X	130	25	9
540-550	93%	Ditto above but increase in chloritization. Weak argillization. Very little chalcopyrite. ± 1/2" fault-fracture associated w/ SiO_2 vein @ 543' (FeS_2 in quartz vein).	X	W		X	65	20	8
550-560	95%	Ditto above. Very strong FeS_2 in places (553') Minor aplite @ 559'.	X	W		X	330	50	7
560-570	107%	Ditto above. Minor aplite stringers.	X	W+		X	160	60	4
570-580	90%	Ditto above. SiO_2 vein (steeply dipping as above been others) 572'-573', has good remnant FeS_2 cubes. Textural change in rock in places.	X	W		X	120	30	18
580-590	96%	Ditto above. Weakly argillized.	X	W		X	210	80	14
590-600	96%	Ditto above. Nil chalcopyrite - one blob @ 592'.	X	W+		X	90	45	5
600-610	99%	Ditto above. Chalcopyrite and bornite @ 607.5'. Increase in chalcopyrite. Minor aplite @ 601.5'	X	W		X	510	120	7
610-620	100%	Ditto above, minor aplite dikes. Poor pegmatite 616'-612'. SiO_2-sericite-FeS_2 vein @ 613' with minor MnS_2 and FeO_x staining fractures	X	W-W+		X	330	120	2
620-630	100%	Ditto above. Moderate chloritization and argillization 625'-630'. Minor fault-fracture @ 629'. Increase in chalcopyrite.	X	W		X	605	80	7
630-640	90%	Ditto above. Some chalcocite @ 632'. Green Cu mineral (malachite?) @ 639.5'. Some sericitization. Minor chalcopyrite.	X	W-M	X	X	450	200	4
640-650	97%	Ditto above. Minor silicification in places. Chalcopyrite with chalcocite @ 641'.	X	W+		X	665	220	7
650-660	90%	Ditto above. Sericite on fractures. Blob of bornite with chalcopyrite @ 656'. SiO_2 vein 656'-657' (minor MnS_2). Minor disseminat	X	W		X	420	120	9

Diamond Drill Core Log Sheet

Drill Hole No.: 2 Date Started: ____ Location: ____ Depth: ____

Interval	Core Rec. %	Description	Mineralization FeS2	FeO2	CuO2	CuS	Assays-Pt Tot Cu	Ox Cu	
~~670-680~~							~~520~~	~~210~~	11
670-680	99%	Ditto above, very fresh, pre-Cambrian porphyritic granite (new K-spar in places?) Minor veinlets & blebs of chalcopyrite. Small piece of chalcocite @ 676'.	X	W		X	480	60	6
680-690	100%	Ditto above. Minor epidote. Some bornite and chalcocite @ 689' (with chalcopyrite).	X		W-W+	X	320	120	4
690-700	100%	Ditto above (new K-spar in places?) Strong fracture @ 690'.	X		W+	X	280	20	5
700-710	95%	Ditto above. More visible chalcopyrite than any of previous runs. Kaolinite fracture @ 709.5'. Weak argillization.	X		W	X	410	10	2
710-720	100%	Ditto above. Increase in biotite content of rock. Very fresh whole run.	X		W	X	200	10	7
720-730	100%	Ditto above. Aplite dike with 2" SiO_2 vein 721.5'-723.5' (remnant K-spar phenos in SiO_2 vein). Increase in chloritization of plagioclase feldspars (726'-730'). Some shearing @ 729'. Some disseminated MoS_2.	X		W	X	425	20	4
730-740	94%	Ditto above (726'-730') then rock gradually grades into fine-grained granite (aplite?) @ 734', which continues to 739'. At 739' rock is strong chlorite-biotite-quartz-feldspar rock with schistosic texture. Chalcopyrite + pyrite seen in all textural types.	X		W	X	230	15	100
740-750	93%	Fresh, pre-Cambrian porphyritic granite. Steep SiO_2 veinlet (± 1/2") most of run. Pegmatite-aplite @ 748'. Minor chalcopyrite (drop from previous run?). Medium chloritization of Na-spar + biotite.	X		W	X	310	20	16
750-760	100%	Ditto above to 752'. Strong SiO_2-FeS_2 vein 752'-753'. 753'-759' same rock as described from 731'-734'. Fresh pre-Cambrian granite 759'-761'. Stringer veinlets	X		W	X	330	30	25

Diamond Drill Core Log Sheet

Drill Hole No.: 2 Date Started: ____ Location: ____ D____

Interval	Core Rec. %	Description	Mineralization FeS2	FeOx	CuOx	CuS	Assays-P. Tot. Cu	Ox. Cu	
760-770	95%	Fresh pre-Cambrian porphyritic granite. Minor SiO2 veinlets. Good FeS2. Increase in chalcopyrite. Disseminated MoS2.	X	W		X	790	50	8
770-780	100%	Ditto above. Good MoS2. 779-780' Amethyst SiO2 @ 773'. More chalcopyrite than in previous run (?).	X	W		X	.13%	65	2
780-790	97%	Ditto above. Strong chlorite zone and fault breccia 783'-785'. Medium argillization. Good MoS2 @ 780.5'	X	W		X	.12%	90	15
790-800	87%	Fresh pre-Cambrian granite, strong biotite. Slight drop in chalcopyrite (?) Good FeS2.	X	W		X	610	50	3
800-810	117%	Ditto above, very strong biotite. K-spars to 1 3/4", same in previous runs.	X	W		X	360	20	3
810-820	91%	Ditto above. Aplite-pegmatite 818.5'-820'. Chlorite on fractures.	X	W		X	740	45	32
820-830	89%	Pegmatite to 822' (good contact). Ditto above (Oracle granite) to 823'. Pegmatite 823'-825'. Fresh porphyritic Oracle granite 825'-830'. Good chalcopyrite @ 829'. Strong biotite	X	W		X	150	-5	-1
830-840	100%	Fresh porphyritic pre-Cambrian Oracle granite with 2-6" to 8" dikes of pegmatite @ 831' and 838.5'. Chalcopyrite and pyrite veinlets in pegmatite. Strong biotite and some xenoliths.	X	W		X	220	10	1

Diamond Drill Core Log Sheet

Drill Hole No.: ____ Date Started: ____ Location: ____ Depth: ____

Interval	Core Rec. %	Description	Mineralization FeS2	Mineralization FeOx	Mineralization CuOx	Mineralization CuS	Assays-F. Tot Cu	Assays-F. Ox Cu	
840-850	100%	Ditto above, fresh pre-Cambrian Oracle granite, chalcopyrite visible but chep in content.	X	Nil		X	210	10	6
850-860	97%	Ditto above with minor changes of pegmatite, more argillization in places. Now K-spar ??	X	Nil		X	230	10	-1
860-870	93%	Ditto above. Pegmatite dike 860'-862'. Strongly fractured zone with pos breccia 865'-870', strong chloritization of biotite and Na-feldspar, w. good clots of MoS.	X	Nil		X	.11%	60	.05%
870-880	100%	Feldspar phyr continues to 873' (some slices). Like to medium argillized (fresh in several places) Oracle granite 873'-880'. MoS in places.	X	Nil		X	650	55	67
880-890	112%	Fresh porphyritic pre-Cambrian Oracle granite.	X	Nil		X	210	10	2
890-900	96%	Ditto above, strong biotite (as in previous runs). Weak pyrite and chalcopyrite.	X	Nil		X	10	-5	1
900-910	97%	Ditto above, some (?) increase in sulphides. Entire of run have considerable salmon pink feldspar, chlorite-pyrite? Some MoS.	X	Nil		X	320	10	14
910-920	94%	Ditto above. Minor epidote as in previous runs.	X	Nil		X	330	10	11
920-930	87%	Ditto above.	X	Nil		X	450	20	5
930-940	87%	Ditto above.	X	Nil		X	480	20	29
940-950	118%	Ditto above, very strong biotite. Very good chalcopyrite in places. 2" breccia @ 949.5'.	X	Nil		X	680	20	9
950-960	81%	Ditto above. Entire run is sheared and brecciated with seams of calcite, very competent rock. Good chalcopyrite in places. Some sericite-chlorite.	X	Nil		X	935	90	4
960-970	85%	Ditto above. Mostly rubble 961'-966'.	X	Nil		X	.21%	140	11
970-980	95%	Ditto above. Sheared and brecciated Oracle granite. Strong chlorite-sericite in places. Some rubble.	X	Nil		X	675	40	2
980-990	91%	Ditto above. Shearing becoming worse @ 987'. Rubble 991'-992'. Slicks @ 993.3'.	X	Nil		X	.16%	100	70
990-1000	66%	Driller lost 10' run of core in hole from 997'-1007'. Pervasive pre-Cambrian Oracle granite, weak to medium chloritization, some chalcopyrite and pyrite. Some MoS.	X	Nil		X			
					990'-995'		410	40	1
					995'-1000		590	150	.04%
							640	95	.04%
1000-1010									

[illegible] Mining Corporation Page 8 of 1

Diamond Drill Core Log Sheet

Drill Hole No.: P1-2 Date Started: _____ Location: _____ Depth: _____

Interval	Core Rec. %	Description	Mineralization FeS2	FeO2	CuO2	CuS	Assays Pt Cu	Au	
1010-1020	97%	Fresh pre-Cambrian Oracle granite. Shear zone 1010'-1012'. Good MoS2 in places. Chalcopyrite in shear zone plus MoS2. Fair to poor pyrite.	X	Nil		X	770	70	21
1020-1030	62%	Ditto above. Increase in FeS2 (?). Good pyrite in places (in pyrite veins). No sheared zones.	X	Nil		X	640	55	27
1030-1040	95%	Ditto above. Nil chalcopyrite, low FeS2.	X	Nil		X	155	15	17
1040-1050	110%	Ditto above. Strong biotite as in previous runs.	X	Nil		X	190	15	3
1050-1060	75%	Ditto above.	X	Nil		X	310	15	21
1060-1070	96%	Ditto above.	X	Nil		X	115	5	1
1070-1080	105%	Ditto above.	X	Nil		X	100	5	-1
1080-1090	95%	Ditto above.	X	Nil		X?	170	15	19
1090-1100	91%	Ditto above. Some MoS2 in pegmatitic granite @ 1097'.	X	Nil		X	210	15	59
1100-1110	96%	Ditto above.	X	Nil		X	200	15	13
1110-1120	102%	Ditto above. Fair increase in pyrite, slightly more chalcopyrite (?). Fracture zone 1116'-1120', moderate argillic alteration, chloritization, some pegmatite and quartz veinlets.	X	Nil		X	460	50	36
1120-1130	96%	Ditto above. Weak argillization in places. Fair pyrite, some chalcopyrite.	X	Nil		X	530	30	4
1130-1140	96%	Ditto above.	X	Nil		X	440	20	11
1140-1150	100%	Ditto above. Fault-fracture zone @ 1150'. Some MoS2 associated with this zone. Good FeS2.	X	Nil		X	420	25	16
1150-1160	90%	Ditto above, except rock has more of a pegmatitic texture. Strong fault @ 1152'. Rock is sheared and brecciated from 1152'-1160' (also strongly altered)	X	Nil		X	275	20	6
1160-1170	90%	Ditto above (1152'-1160'). Very strong chloritization. Fair chalcopyrite in places. Calcite on fracts.	X	Nil		X	650	75	6
1170-1180	87%	Ditto above to 1177' (?). Then porphyritic, pre-Cambrian Oracle granite. There is a textural change in the granite from previous runs, possibly associated with sheared zone. Some MoS2.	X	Nil		X	420	45	6
1180-1190	100%	Ditto above (1177'-1180'). Pre-Oracle fault appears to be brecciated in places. Good chalcopyrite on some fractures. Good pyrite (prior runs too).	X	Nil		X	240	20	20
1190-1200									
1200-1210							280	10	7
							260	30	2

Diamond Drill Core Log Sheet

Drill Hole No.: 2 Date Started: Location: Dip:

Interval	Core Rec. %	Description	Mineralization: FeS_2	FeO_x	CuO_x	CuS	Assays: Tot. Cu	Ox. Cu	MC
1210-1220	83%	Ditto above	X	Nil		X	410		13
1220-1230	91%	Ditto above. Strong fract @ 1225'. Good chalcopyrite @ 1222'. Weak to medium argillization.	X	Nil		X	105%		14
1230-1240	100%	Ditto above. Strong chloritization in places. Fract @ 1232'	X	Nil		X	510		14
1240-1250	95%	Ditto above. Rock fresh whole run.	X	Nil		X	470		29
1250-1260	103%	Ditto above. Some SiO_2 - specularite veins cut core at ± 20° ⊓ also noted in previous runs (minor).	X	Nil		X	280		9
1260-1270	100%	Ditto above. Rock very fresh	X	Nil		X	170		13
1270-1280	96%	Ditto above. Strong fractures @ 1275', 1277', 1279'-1280'	X	Nil		X	110		6
1280-1290	104%	Ditto above. Excellent chalcopyrite @ 1282' Strong chloritization in places. Rock fresh	X	Nil		X	335		9
1290-1300	95%	Ditto above, very fresh pre-Cambrian Oracle granite. SiO_2 veinlet @ 1291' Weak chloritization, considerable clot of L. fete (all appears to be primary). Good chalcopyrite in places but very spotty. Some minor MoS_2.	X	Nil		X	325		7
1300-1310	101%	Ditto above. Spotty weak to strong argillization. Good epidote @ 1306', associated w/ salmon pink K-spar & chalco.	X	Nil		X	117%		125
1310-1320	90%	Ditto above, no argillization. Xenolith @ 1311'	X	Nil		X	490		11
1320-1330	100%	Ditto above. Weak fractures @ 1321'	X	Nil		X	275		12
1330-1340	97%	Ditto above. Weak fractures @ 1333', 1337' & 1339'. Appears to be new K-spar @ 1335', white K-spar forms a halo or ring around large K-spar (pink)	X	Nil		X	255		6
1340-1350	102%	Ditto above. Fractures @ 1341'-1343' & 1347'. Rock is brecciated @ 1342'. Some pegmatite. Epidote. Weak chalcopyrite as in previous runs. Fair pyrite	X	Nil		X	420		2
1350-1360	99%	Ditto above. Weak to medium argillization whole run. Strong fract zones 1351'-1353' and 1355'-1357'	X	Nil		X	425		7
1360-1370	70%	Ditto above. Strong SiO_2 vein (steep dip) with good MoS_2 1361'-1363'. Strong sericite @ 1360' and 1363'-1365'. Strong fract @ 1370'. Weak chalco	X	Nil		X	370		% .028
1370-1380	78%	Ditto above, fresh porphyritic pre-Cambrian granite. Chalcopyrite good in few spots but overall is weak.	X	Nil		X	270		11
1380-1390	103%	Ditto above. Some weak argillization in places.	X	Nil		X	150		5
1390-1400	92%	Ditto above. Weak fracture @ 1390'	X	Nil		X	440		14
1400-1410							555		14

Diamond Drill Core Log Sheet

Drill Hole No.: 2 Date Started: Location: Depth:

Interval	Core Rec. %	Description	Mineralization FeS2	FeOx	CuOx	CuS	Assays-F Total Cu	Oxide Cu	Mo
1410-1420	107%	Ditto above. Minor pegmatite. Epidote.	X	Nil		X	745		9
1420-1430	96%	Ditto above. Moderate argillization in places. Moderate chloritization appears to be new K-spar locally (1426'?). Chalcopyrite and MoS2 @ 1428.5', more chalcopyrite than previous run (?). Minor py	X	Nil		X	885		184
1430-1440	100%	Ditto above. Pegmatite (?) 1432-1437'. Strong SiO2-FeS2-sericite zone 1437'-1440'. Stronger chloritization than previous run.	X	Nil		X	635		16
1440-1442	107%	Ditto above, drop in chloritization. Aplite pegmatite 1440'-1441'. Minor fracture zones @ 1442.5' and 1442'. END OF HOLE.	X	Nil		X	345		3

This hole was in pre-Cambrian "Grade" granite throughout its entire length (with the exception of some minor aplite-pegmatite dikes). Alteration encountered was typically propylitic with considerable veins of fresh unaltered rock. Sulphide content was considerably higher in this hole than in DDH #1. Composite assays for sulfur content indicate FeS2 (pyrite) averaged 1.27% from 300' to 995'. The highest values of copper sulphides were associated with fault-breccia zones indicating that these structures provided access for the mineral bearing solutions. The best assay interval for CuS was from 960'-970' (0.21%). Several other 10' runs exceeded 0.1% CuS. Several good MoS2 zones were also encountered in the hole and were associated with quartz-pyrite veining. This hole penetrated the fringe zone of the ore body (?) i.e. one feasible drill on 1 TP was should be done in this

Diamond Drill Hole RH-1

Depth	Core Rec.	Description	Tot Cu	Ox Cu
0'	36%	Overburden 0-4'; % Core Rec. Quartz monzonite porphyry with euhedral to anhedral quartz eyes up to 1/4". Medium to fine grained groundmass. Weak to strong FeOx in form of hematite and goethite-limonite. Small blebs of magnetite. Wk. to medium sericitization and chloritization of feldspars. Phenocrysts obscure in places due to silicification-sericitization	20 PPM	10 P
10'	31%		10 PPM	5 P
20'	100%		5 PPM	<5 P
30'	100%		10 PPM	<5 P
40'	100%		10 PPM	<5 P
50'	90%		10 PPM	10 P
60'	93%		20 PPM	10 P
70'	78%	Good chilled zone in quartz monzonite porphyry @ 75' where contact is made with Pre-Cambrian "Oracle" granite. Granite very coarse-grained with orthoclase feldspars up to 1". Considerable patches of chlorite in granite throughout run. (Varies in degree)	85 PPM	70 P
80'	90%		80 PPM	70 P
90'	92%		120 PPM	100
100'	100%		65 PPM	55
110'	100%		60 PPM	60 P
120'	70%	Driller says he hit water @ 126'	190 PPM	165
130'	20%	Chrysocolla - $CuSiO_3$ Slicks @ 137'. Very poor core recovery - sludge sample 136'-140' "hematitic sand"	.13%	.11%
140'	75%		.25%	.25%
150'		Chrysocolla - $CuSiO_3$	.12%	.12%
160'	98%	Chrysocolla - $CuSiO_3$	470 PPM	470
170'	84%	Chrysocolla - $CuSiO_3$ - weak	390 PPM	360 P
180'	68%		.16%	.15
190'	25%	Chrysocolla - $CuSiO_2$ Sludge 186'-190' 0.11% Tot Cu 1050 PPM - OxCu	.13%	.12%
200'	29%	Sludge 192'-194' 990 PPM Cu 890 PPM OxCu	820 PPM	820 P
210'	42%		210 PPM	210 P
220'	84%	Sludge 213-215' 125 PPM Cu 110 PPM OxCu	130 PPM	125
230'	84%		170 PPM	170
240'	98%		90 PPM	80 P
250'	89%		140 PPM	125 P
260'	99%	Good epidote @ 257.5'	100 PPM	80 P
270'	51%		120 PPM	110 P
280'	75%		120 PPM	105
290'	70%	Gouge @ 281' where contact is made with porphyritic granodiorite (Qtz Diorite Porphyry ?) Good epidote in porphyry	100 PPM	90 P
300'	76%	Quartz monzonite porphyry @ 295'. Chill zone in qtz mons. [illegible] indicating [illegible] than [illegible] grained [illegible] with		

8' .12 To

	Core Rec.		Tot Cu	Cu C.
310'	55%	Fair to good sericite. Highly fractured. Weak to strong argillization.	35PPM	35P.
	32%	Calcite seam @ 314' Sludge Assay 314'-319' 190PPM	20PPM	15P.
320'	54%	Few pieces of porphyritic granodiorite (Qtz Diorite Porph ?) @ 320.5' (good epidote). Sand-sludge 326.5' to 330' good magnetite in sand	40PPM	40P.
330'	52%	Sand-sludge 333' to 335' and 339' to 340'. Few pieces of porphyritic granodiorite @ 335' (good epidote).	30 PPM	25
340'	48%	Sand-sludge 343' to 346'. Good pieces of fault breccia 347' to 350'	40 PPM	40P.
350'	58%	Contact with porphyritic granodiorite @ 353'. Good pieces of fault breccia 350' to 353'	175PPM	95P.
360'	33%	Calcite 367.5'. Oxidized veinlet shows good boxwork after FeS_2	520PPM	365P.
370'	60%	Calcite 376' & 379'	230 PPM	200P.
380'	75%		130 PPM	115
390'		Hematite-goethite vein 398'-399' 390'-396' →	270PPM	200P.
400'	48%	396'-410'	290PPM	260P.
410'	95%	Chlorite with calcite 418'-419'. 418'-419' fault breccia slicks @ 416'. Pre-cambrian "Oracle" granite @ 419'	320PPM	250P.
420	80%	Medium to strong argillization.	280 PPM	190
430'	67%	Strong fractures	300PPM	220
440'	49%	Strong fractures. Sludge only 440'-444'. Driller says he hit strong water flow @ 440'.	420 PPM	255
450'	75%	Good remnant veinlets of pyrite	310 PPM	120
460'	75%	Good boxwork after FeS_2	280 PPM	110
470'	64%	Sludge 475.5' - 478'	220 PPM	130
480'	89%		590 PPM	230
490'	95%	MoS_2 (?) 497.5'	250PPM	165
500'	82%	± 1/2" SiO_2 Vein @ 504'	300 PPM	180
510'	93%	Definite FeS_2 517.5'	310 PPM	190
520'	100%	Good FeS_2	230 PPM	150P.
530'	100%	Chalcocite @ 531'	340 PPM	190
540'	100%	Good chilled contact. Very pronounced drop in FeS_2	60 PPM	40
550'	99%	Aplite 553', 555'-556' and 560'. Very little FeS_2	180 PPM	130
560'	81%	Chalcocite and FeO_x after chalcocite	270 PPM	195
570'	90%	Good FeS_2. MoS_2 @ 577'. Some epidote.	360 PPM	230
580'	81%	Sand & sludge 536.5'-587.5'. MoS_2 583.5'. Chalcopyrite.	355 PPM	320
590'	91%	Good FeS_2. Aplite 596'-596.5'. Sludge 58[illegible]-516 →	175 PPM	120
600'			230 PPM	200

	Core Rec		Tot. Cu	OxC
610	90%	Strong epidote - $FeOx$ after chalcocite, MoS_2 @ 603'	315 PPM	265
620	76%	Significant absence of FeS_2. Aplite 619'-620'	135 PPM	95
	100%	Aplite 620'-623.5', 625.5'-626' and 628'-629'	155 PPM	70
630	95%	Good FeS_2. Chalcopyrite(?)	190 PPM	140
640	79%	MoS_2 @ 648.5'	250 PPM	160
650	100%	Good FeS_2 veinlets	230 PPM	140
660	100%	Medium - Strong argillization. Chalcopyrite(?) @ 666'	980 PPM	580
670	97%	Very little FeS_2. Strong epidote. Change in rock texture.	205 PPM	110
680	89%	Strong silicification 681'-690', MoS_2(?) @ 683'	135 PPM	70
690	65%	Sand 693'-696'. 1/4" SiO_2 vein @ 692'	230 PPM	160
700	100%	Aplite 700'-700.8'. No FeS_2.	170 PPM	170
710	100%	Large quartz and feldspar phenocrysts	20 PPM	20
720	100%		5 PPM	5
730	95%		5 PPM	5
740	100%	Texture of rock almost equigranular	-5 PPM	-5
750				

Diamond Drill Hole RH-1

DRILL HOLE NO: RH-1 | DATE COLLARED: 1/3/72 | LOCATION: 350' Due W of Mexican Shaft thence 600' Due North | HOLE DEPTH: 750'

INTERVAL	CORE REC.	DESCRIPTION	MINERALIZATION Fe2O3	FeOx	CuOx	CuS	Tot.Cu Pct.	Ox.Cu Pct.	Fe2O3 Pct.
0-10	36%	Overburden first 4 feet. 0% recovery. Quartz monzonite porphyry with euhedral to anhedral quartz eyes up to 1/4", medium to fine grained groundmass. Small books of mica present (probable sericitization of feldspar?). Weak to medium argillization of feldspars. Some possible chalcocite(manganese-magnetite?) noted at 2',5' and 9'. Several iron stained fractures and blebs of hematite and magnetite.		W-m		x?	20	10	
10-20	81%	Ditto above, but sericitization and chloritization stronger.		W-m		x?	10	5	
20-30	100%	Ditto above, phenocrysts not well defined due to alteration, several fracture zones.		W-m			5	-5	
30-40	100%	Ditto above.		W-m			10	-5	
40-50	100%	Ditto above.		W-m			10	-5	
50-60	90%	Ditto above, strong fracture zone 55'-56'. Alteration (sil. + ser.) obscuring feldspar phenocryst outline.		W-m			10	10	
60-70	98%	Ditto above, strong fracture at 67'.		W-m			20	10	
70-80	78%	Ditto above to 75'. At 75' contact is made with Pre-cambrian porphyritic granite (Oracle? granite). Excellent chilled contact exhibited in qtz. mon. porph., very fine grained at contact (porphyry horsetails into grainte). Strong chlorite-sericite at 70.5', gives rock "salt & pepper" appearanxce. Granite is coarse grained and contains considerable patches of chlorite (much larger than seen in porph.). Chlorite to sericite ratio much higher in granite. Granite highly fractured.		m-s			85	70	
80-90	90%	Coarse grained Pre-cambrian granite, ditto above		s			80	70	
90-100	92%	Ditto above.		s			120	100	
100-110	100%	Ditto above, considerably less fracturing and less FeOx. Strong fract. at 110'. Texture well defined.		m-s			65	55	
110-120	100%	Ditto above, but stronger FeOx.		s			60	60	
120-130	70%	Ditto above, feldspars highly altered in numerous places. Drill-ha hit water at 126'		s			190	165	
							680		

INTERVAL	CORE REC.	DESCRIPTION	MINERALIZATION FeS2	FeOx	CuOx	CuS	Tot.Cu PPM	OxCu PPM	MoS2 PPM
0-730	100%	Ditto above. Some phenocrysts of feldspar up to 3/4" with inclusions of quartz and chlorite (secondary?).	nil				5	5	-1
0-740	95%	Ditto above.	nil				5	5	-1
0-750	100%	Ditto above. Somewhat of a textural change, rock almost equigranular in places.	nil				-5	-5	-1

Lost rods in hole for second time at 750' due to cave material cutting them in half. Stopped hole but Rocky Mountain Geochemical agreed to deepen the hole at a later date by casing hole with BX rods and then continuing downward with AX wireline.

Alteration exhibited in hole seems to fit perfectly the propylitic facies of alteration described in porphyry copper literature. Therefore, this hole would be on the fringe of an orebody if one exists. Some of the alteration seen in the core would also fit into the argillic facies of alteration and quartz-pyrite-sericite alteration proposed by others.

FeOx notations in log stand for:

w- weak iron oxide

m- average or medium iron oxide

s- strong iron oxide

Diamond Drill Hole KM-2

DIAMOND DRILL CORE LOG SHEET

Drill Hole No.: 2 Date Started: 9/5/72 Location: IP Survey Hole - Coo 134 Dip:

Interval	Core Rec. %	Description	Mineralization FeS2	FeO	CuO	CuS	Assays Total Cu	Oxide Cu	Pb
		Contracted Joy Manufacturing Co. to deepen hole #2. Discovered hole had only been drilled to 1442' by RMGC rather than 1452' reported.							
0-1450	100%	Precambrian "Oracle" granite with considerable biotite (primary?). Very sparse new K-spar, weak chloritization of biotite. Pyrite and chalcopyrite mineralization weak and spotty. Minor silicification. Few spots of epidote. Fract @ 1449.7'	X	Nil		X	440		4
0-1460	105%	Ditto above. Some chloritization of plagioclase feldspars. Some sericitization & kaolinization @ 1457'.	X	Nil		X	260		4
0-1470	100%	Ditto above.	X	Nil		X	215		4
0-1480	89%	Ditto above. Fracts @ 1477', 1478' & 1479'	X	Nil		X	110		2
0-1490	100%	Ditto above, possibly slight increase in chalcopyrite from previous runs, still weak.	X	Nil		X	155		9
0-1500	102%	Ditto above, some good blebs of chalcopyrite @ 1494' and 1496' (new K-spar here) but overall still weak. Nil pyrite.	X	Nil		X	585		2
0-1510	100%	Ditto above, increase in pyrite but spotty. Chalcopyrite above same as previous run. Rock still fresh and competent.	X	Nil		X	490		11
0-1520	100%	Ditto above. Drop (?) in chalco, pyrite about same. Quartz-sericite 1512'-1513'. Weak to moderate argillization in places. Fract @ 1517'	X	Nil		X	100		1
0-1530	100%	Ditto above. Rock very fresh, very minor new K-spar as in previous runs.	X	Nil		X	160		2
0-1540	100%	Ditto above. Some good chalcopyrite @ 1532.5' but overall run is weak, pyrite weak.	X	Nil		X	190		1
0-1550	100%	Ditto above. Excellent chalcopyrite @ 1549.5'. Weak to moderate argillization. Quartz-pyrite-chalcopyrite-sericite veins (Chalk zones?) @ 1544.5' and 1549'-1550'. Increase in chloritization from previous runs.	X	Nil		X	0.24%		79
0-1560	100%	Ditto above. Nil @ 1550.5' Fract @ 1555'	X	Nil		X	555		31

Alvarez Gr 2.

COPY

R B Bird

DESCRIPTION OF SAMPLES
TAKEN BY L. G. THOMAS

ARIZONA COPPER COMPANY
Florence, Arizona
May, 1948

No.	Length Cut Feet	Description	Cu %	Au Oz	Ag Oz	Fe %	Insol. %
1061	3.75	Pit, South center Copper #20	.35	Tr	.2		
1062	4.0	N.E.Fissure @ S.W.Cor. Copper #20	.46	Tr	.1		
1063	7.0	Two 40' shafts, Copper #21	1.84	.02	.1	4.20	87.78
1064	4.0	"Teddy Bear" Pit, Copper #19	.46	Tr	.1		
1065	1.5	E-W vein, Copper #18	.87	Tr	.1		
1066	3.0	Typical veins in diorite porphyry pit, Chango #7	2.15	.01	.2	17.12	66.00
1067	4.0	Iron ox. in 20' adit, Copper #2- Exclude from copper average	.20	Tr	.1		
1068	7.0	E-W fissure @ S.W.Cor. Copper #1	.41	Tr	.1		
1069	6.5	N. 80 E. fissure, 475 ft. N.W. of A.C. shaft #1 on Copper #3 west of road	1.36	Tr	.2		
1070	4.0	N. 70 W. Fissure, 400' N. of A. C. shaft #1, East of road	1.30	Tr	.3		
1071	4.0	Vernes Santo shaft, N. 62 W. fissure	2.07	Tr	.3		
1072	Grab Use 2 Ft.	Vernes Santo Av. grade ore dump	4.69	.01	.4		

Average grade - Length of each cut times % Copper divided by total length of cuts (excluding No. 1067) is 1.29%
Arithmetical Av. = 1.45%

opied
ucson, Ariz.
/15/61

ARIZONA CONSOLIDATED GOLD & COPPER MINES

Hole #1
Location- Copper 4 - Bearing S 18 W - Length 395'- Angle 65°

Very much broken up - very poor core recovery. Monzonite lightly altered. Depth 395 feet.

Hole #2
Location- Copper 20 - Bearing due south - Angle 60°

Aplite to 195'. Monzonite altered and broken up and oxidized to bottom 795'. Poor core recovery broken up.

Hole #3
Location- Copper 20 - Bearing due south - Length 521' - Angle 80°

Aplite to 470'. Altered Fe stained diorite broken up. Poor core recovery to 521 bottom.

Copied from pencilled notes.
Tucson, Ariz.
8/15/61

Hole #4

12-20-49
Bearing due South

Core read by C. Trischka

Location- Copper 1 Length- 911' - Angle 81°

Size Hole	Feet drilled	Inches Core	Amt. Sludge	Material	Remarks	
BX	13	16		Diorite		
"	13 - 26	19		"		
"	26 - 34	13		"		
AX	34 - 56	1		"		
"	56 - 76	3		"		
"	76 - 90	0				
"	90 - 95	14		Monzonite		
"	95-100	20		Diorite		
"	100 -111	4		Monzonite		
"	111 -121	7		"		
"	121 -136	3		"		
"	136 -154	0		"		
"	154 -156	6		"		
"	156- 176	4		"		
"	176- 186	15		Decomposed monzonite	Gravel- no core	
"	186- 191	30		" "	" " "	
"	191- 196	18		" "	Core-½, Gravel-½	
"	196- 206	30		"	Broken up	
"	206- 214	40		"	" "	
"	214- 225	50		"		
"	225- 230(#13	46		"	Small amt.	10#
"	230- 234(	13		Diorite	disseminated	11#
"	234- 237(#14	24		Monzonite	pyrite	12#
"	237- 243(	24		"	No pyrite	
"	243- 250	55		"		
"	250- 254	39		"		
"	254- 264	34		"		
"	264- 267	34"		"		
	267- 274½	32		"		
	274½-275	9"		"		
	275- 285	104		"		
	285- 296	118		"		
	296- 304	38		"	Somewhat oxidized	
	304- 316	20		"	" "	
	316- 324	59		"	" "	
	324- 337	50		"	" "	
	337- 347	81		"	" "	
	347- 357	18		"		
	357- 367	78		"		Sample Core
	367- 375	34		Somewhat FeOx altered	Some pyrite	#15
	375- 387	69			" "	#16
	387- 395	55			" "	#17
	395- 405	131			" "	#18
	405- 417	120		Last 5' somewhat alt. FeOx	" "	#19
	417- 427	57		Oxidized monzonite		#20
	427- 437	47		" "		
	437- 447	37		" "		
	447- 454	37		" "	Little pyrite	#21
	454- 465	91		" fe	" "	
	465- 476	111		" Ox	" "	#22
	476- 486	96		Monzonite	" "	#23
	486- 494	35		Oxidized monzonite	" "	#24
	494- 505	44		" fe ox	" "	#25
	505- 516	56		"	" "	#26
	516- 522	40		"	" "	#27

Hole #6 - Continued

Size Hole	Feet drilled	Inches Core	Material	Remarks
AX	481-489	18	Altered & oxidized, little Fe stained monzonite	
	489-500	45	Same as above	
	500-510	45	" " "	
	510-515	11	" " "	
	515-524	58	" " "	
	524-535	40	" " "	
	535-540	33	" " "	
	540-550	37	" " "	
	550-561	26	" " "	
	561-572	38	" " "	
	572-584	49	" " "	

Copied from penciled notes
8/15/61
Tucson, Ariz.

Hole #4 - Continued

Size Hole	Feet drilled	Inches Core	Amt. Sludge	Material	Remarks		Core No.
AX	522-533	108		Monzonite	Little pyrite		#28
	533-543	118	Slightly alt.	"	"	"	29
	543-553	106	Fe ox.	"	"	"	30
	553-565	119	Oxidized	"	"	"	31
	565-572	67	"	"			32
	572-584	60	"	"	"	"	33
	584-594	101	"	"	"	"	34
	594-601	51	"	"	"	"	35
	601-612	109	"	"	"	"	36 (608-611)
	612-622	51	"	"			
	622-633	51	"	"			
	633-644	47	"	"			
	644-654	65	"	"			
	654-658	74	"	"			
	658-668	28	"	"			
	668-678	33	"	"			
	678-686	63	"	"			
	686-695	79	"	"			
	695-705	102	"	"			
	705-715	24	"	"	Little pyrite		37
	715-725	27	"	"	"	"	38
	725-731	22	"	"	"	"	39
	731-741	105	"	"	"	"	40
	741-752	39	"	"	"	"	41
	752-764	74	"	"	"	"	42
	764-775	92	"	"	"	"	43
	775-777	12	Monzonite silicious		"	"	44
	777-786	91	"	"	"	"	45
	786-789	28	"	"	"	"	46
	789-799	118		Monzonite	"	"	47
	799-805	42		"	"	"	48
	805-816	124		"	"	"	49
	816-827	60		"	"	"	50
	827-834	55		"	"	"	51
	834-845	35	Oxidized	"	"	"	52
	845-854	55	"	"	"	"	53
	854-862	45	Monzonite		"	"	54
	862-872	120	Oxidized	"	"	"	55
	872-884	122	"	Monzonite	"	"	56
	884-892	26	Little Epidote		"	"	57
	892-898	47	"	"	"	"	58
	898-901	3	"	"	"	"	59
	901-911	64	"	"	"	"	60

Copied from penciled notes
8/15/61
Tucson, Arizona

Hole #6 Bearing S 24 W

Core read by

Location Change 8 - Length 584' - Angle 60°

Size Hole	Feet drilled	Inches Core	Material	Remarks
HX	0- 36	42	Diorite	Broken up
"	36- 46	0	"	
"	46- 57	0	"	
"	57- 63	0	Andesite & diorite	
AX	63- 75	33	Diorite	Broken up
"	75- 85	5	"	" "
"	85-95	34	"	" " & oxidized
"	95-105	20	"	" " "
"	105-115	4	Coarse grained Monzonite	" " "
	115-125	13	ditto	ditto
	125-132	17	"	"
	132-139	27	"	"
	139-150	11	"	"
	150-160	10	"	"
	160-175	13	"	"
	175-185	45	"	"
	185-195	10	"	"
	195-205	0	"	"
	205-213	9	"	"
	213-223	16	"	"
	223-233	34	"	"
	233-244	17	"	"
	244-250	16	"	"
	250-255	22	"	"
	255-260	6	"	"
	260-274	14	"	"
	274-282	10	"	"
	282-284	11	"	"
	284-299	57	"	"
	299-309	50	Altered diorite- oxidized - broken up	
	309-317	60	" " "	"
	317-320	17	" " "	"
	320-324	27	" " "	"
	324-333	21	" " "	"
	333-344	21	" " "	"
	344-351	24	" " "	"
	351-358	26	Diorite alt. & iron stained-broken up-oxidized	
	358-365	23	" " " " " " "	
	365-375	29	Some specularite and as above	
	375-385	6	" " " " "	
	385-395	8	" " " " "	
	395-402	20	" " " " "	
	402-412	13	" " " " "	
	412-416	18	" " " " "	
	416-425	16	" " " " "	
	425-432	31	" " " " "	
	432-441	22	" " " " "	
	441-446	36	" " " " "	
	446-456	31	" " " " "	
	466-486	20	" " " " "	
	466-476	6	" " " " "	
	476-481	25		

Core read by C. Trischka

Hole #5

12-20-49
Bearing S 30 W

Location - Copper 19 - Length 580' - Angle 55°

Size Hole	Feet drilled	Inches Core	Material	Remarks	Core Sample
NX	0- 29		Diabase		
BX	29- 85		"		
AX	85-101	14	"		
"	101-107	4	"		
	107-110	6	Alt. oxidized monzonite		
	110-112	6	Fe stained		
	112-117	30	" "		
	117-125	30	" "		
	125-135	8	" "		
	135-139	7	" "		
	139-144	8	" "		
	144-149	14	" "		
	149-154	30	" "		
	154-159	28	" "		
	159-162	26	" "		
	162-169	34	" "		
	169-174	38	Heavy FeO alt. monzonite		
	174-180	22	" " " "		
	180-184	28	" " " "		
	184-189	12	Brecciated		
	189-194	12	"		
	194-202	38	"		
	202-213	4	"		
	213-219	8	"		
	219-231	22	Alt. oxidized monzonite		
	231-240	88	" " "		
	240-249	84	" " "		
	249-259	82	" " "		
	259-264	42	" " "		
	264-271	26	" " "		
	271-282	38	" " "		
	282-292	48	& Brecciated		
	292-303	40	" "		
	303-314	120	" "		
	314-323	83	Alt. monzonite		
	323-325	22	" "		
	325-335	109	" "		
	335-346	117	Somewhat altered & leached monzonite		
	346-355	107	" " " " " little FeO		
	355-365	41	" " " " " " "		
	365-375	86	" " " " " " "		
	375-385	80	Somewhat alt. monzonite		
	385-392	78	" " "		61
	392-403	125	" " " little pyrite in Monz.		62
	403-413	120	Fairly fresh monzonite		
	413-423	120	" " "		
	423-431	40	" " "		

Hole #5 - Continued

Size Hole	Feet drilled	Inches Core	Material	Remarks
AX	431-441	76	Fairly fresh monzonite	
	441-451	78	" " "	
	451-462	120	" " "	few spots of pyrite
	462-472	120	1 ft. diorite, rest monzonite	
	472-483	48	Monzonite	
	482-493	124	"	
	493-503	40	"	
	503-509	40	Aplite and monzonite	
	509-517	87	Monzonite	
	517-527	90	"	
	527-537	120	"	
	537-540	14	Slightly oxidized monzonite	
	540-550	86	" " "	
	550-558	88	Small amt. copper carbonate staining at 555' Monzonite	
	558-569	120	"	
	569-580	33	"	