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GEOLOGIC SUMMARY

The Copperstone gold deposit is located in an area of flat, dry, sandy terrain with several small knolls about 40 feet high and prominent longitudinal sand dunes. Only 17 outcrops with a total surface area of approximately one acre are exposed. At the southern end of the Copperstone claim block and beyond is exposed an igneous and metamorphic outlier of the Dome Rock Mountains. These rocks include granite, gneiss, schist, quartzite and amphibolite of uncertain age - Precambrian to Jurassic. A low angle fault (detachment?) separates these rocks from an upper plate consisting of a thick sequence of Jurassic age quartz latite welded tuffs (qlt). The upper plate sequence has been affected by weak green schist facics metamorphism in Cretaceous time. This fault probably extends beneath the Copperstone gold deposit, but drilling failed to confirm its presence.

No early prospect pits, shafts or adits were found at Copperstone. Prospecting began in 1968 with bulldozer trenching by a prospector to better expose weak copper mineralization. The property was submitted to Cyprus in 1980, and a lease was signed after initial field evaluation and sampling indicated 0.02 to 0.09 ounce per ton gold in a few small breccia outcrops. During 1981 through 1983 conventional percussion drilling in a 140 foot grid by Cyprus (Amoco Mineral Company) tested the limits of the Copperstone mineralization. Extensive induced polarization and ground magnetic surveys were run. Anomalous frequency effects outlined the gold deposit with considerable accuracy. Drilling from 1984 through 1985 further defined the deposit.

The Copperstone gold deposit is hosted by a thick sequence of foliated to massive and brecciated quartz latite tuffs. These rocks are correlated regionally with the Jurassic volcanics exposed in the Dome Rock Mountains to the south and throughout west-central Arizona. In the deposit area the quartz latite tuffs are at least 900 feet thick based on drilling formation. The tuffs are characterized by variable degrees of foliation defined by segregated bands of quartz - feldspar and sericite, probably developed along original primary laminations in the tuff. The foliations exposed in surface outcrops in the deposit area all dip 30-50° to the southwest. The indurated breccia dike that hosts the main gold zone within the deposit strikes approximately N45W and dips on an average of 30° to the northeast. These breccias continue along strike at least 2,500 feet and down-dip 1,500 feet. The breccias range in thickness from 50 to 200 feet and contain variably altered fragments of quartz latite in a hematite matrix. The main ore zone within the deposit generally occurs along the basal contact of these breccias with the underlying foliated quartz latite tuff. This maineralized zone is defined by an extensive multi-stage hydrothermal breccia zone. Fragments of quartz vein material, quartz latite tuff and earlier developed breccia are contained within a hematite - specularite matrix. Gold mineralization occurs primarily within this hydrothermal breccia zone and in quartz - amethyst veins cutting through the adjacent latite tuffs. Specular hematite, chrysocolla, minor malachite, and barite are the most common accessory minerals with lesser amounts of calcite, siderite, manganese oxide, flourite, adularia, magnetite,

chalcopyrite and pyrite. Multiple episodes of mineralizing hydrothermal events and brecciation occurred at Copperstone.

Mineralizing solutions also formed local zones of alteration in and near the ore zones. Bleaching effects are caused by argillization and sericitization. Local secondary gray-green chlorite as wispy veining and minor chalcedonic silicification with small patches of chalcopyrite, pyrite and native gold have been seen. Microscopic examination of a gravity concentrate was made from a floatation concentrate of the ore. About 80 percent of the gold occurs in small flakes ranging between 4 and 40 microns. Coarse gold plates range from 50 to 150 microns. Most gold is free, but a small amount is locked within quartz and iron hydroxides.

The few mineralized outcrops at Copperstone contain highly anomalous gold, silver and copper. Initial sampling found subore and ore grade gold values that led directly to drilling. Several early core holes and a large suite of surface samples were analyzed for a broad spectrum of trace elements in an effort to characterize the deposit.

Copperstone is characterized by high barium, manganese, uranium and low arsenic, antimony, thallium and mercury. Barite and flourite are most abundant in the extreme southeastern end of the deposit where they occur in massive 4-5 foot veins.

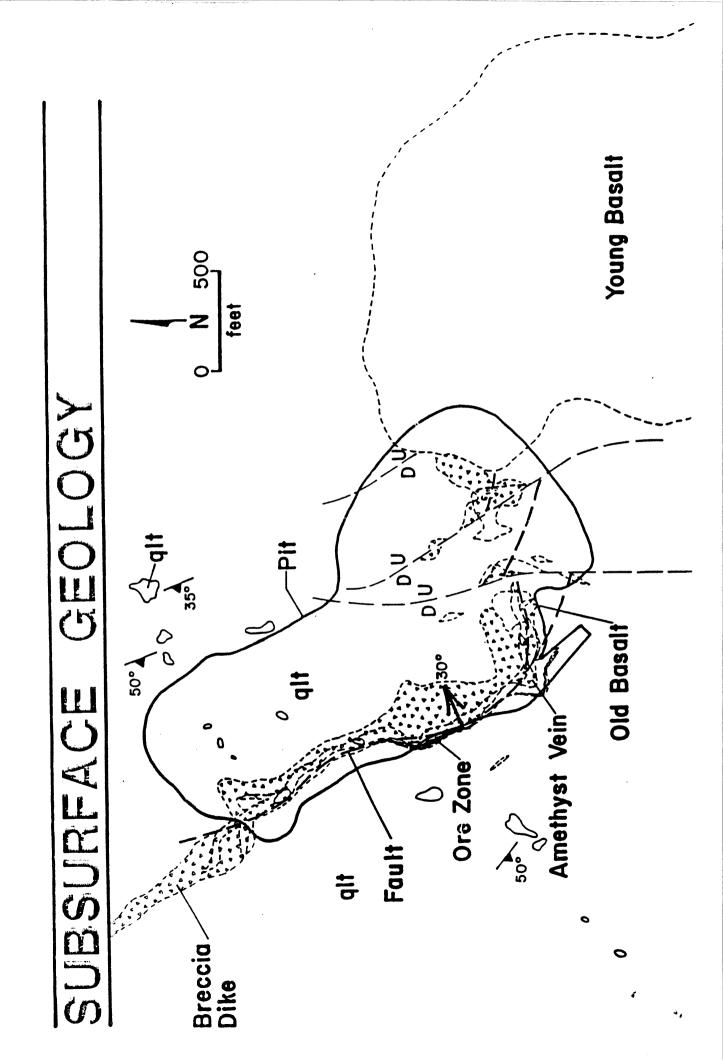
Generally, gold mineralization is sharply defined within the mineralized breccia zone. It markedly decreases over a few tens of feet into hanging wall and footwall rocks where often no gold is detected by atomic absorption analysis. In higher gold grade zones within the deposit, silver values are higher and may provide some recoverable value. Copper ranges up to several percent within the gold zone, mostly as chrysocolla.

R

COPPER PEAK

DOME ROCK MTNS

COPPERSTONE MINE AREA



MNM GOLD PROSPECT-PLOMOSA MINING DISTRICT-LA PAZ COUNTY, ARIZONA

Introduction

Location of Area

The MNM claims are in western Arizona adjacent to the eastern boundary of the Colorado Indian Reservation boundary and approximately mid-way between Parker and Quartzsite(see location map).

Size of Claim Block

The area of the MNM claim block of unpatented lode locations is nearly one and onehalf miles square. The claims adjoin the southern boundary of Cyprus Minerals Company Copperstone claims and about two miles south of the largest open pit gold mine in Arizona.

Work Completed to Date on MNM Claims

Due to the thin veneer of gravels and blow sand which cover nearly 100% of the MNM area, very limited and only indirect information regarding the composition of rock types and their areal distribution is possible.

Some limited petrographic and geochemical work has been done on rock exposures on the western boundary of the claims.

A ground magnetic survey has also been performed over the entire claim block.

Access

The claims are easily accessible from highway 95 via a six mile dirt road which passes through the Cyprus property.

Summary

Geologically, the MNM claim area is similar to the Copperstone gold deposit. Hematitic-quartz veined quartz porphyry breccias host the gold mineralization at Copperstone. Similar breccias are found at the MNM area and the presence of additional breccia zones beneath the thin veneer of gravel covering most of the area is highly possible.

The following information is available for review:

- 1. Petrographic results from the MNM claims and the Copperstone orebody.
- 2. Ground magnetic survey.

Recommendations

The initial drilling at the Copperstone prospect was mostly a stepout grid from the scattered outcropping breccia zones. Later detailed ground magnetic surveys were performed to locate weakly magnetic buried breccias. Although I.P. and gravity surveys were performed, the ground magnetic surveys were found to be the most useful.

Cyprus also successfully used CO2 gas surveys. From extensive testing, a direct correlation between anomalous CO2 and gold bearing breccias covered by alluvium was proven.

I would suggest as an initial exploration approach on the MNM claims, additional fill-in ground magnetic surveys. The abovementioned gas surveys would also work well. Anomalies found by the preceding techniques would then be tested by drilling.

A more direct approach might be to drill along the anomalous drainages which are inferred to reflect fault zones, possibly mineralized with gold.

Geography

Relief and Elevations

The MNM prospect consists of a relatively flat area interrupted locally by N-S dry desert washes. The area lies at the eastern base of the Moon Mountain area and partof the north end of the Dome Rock mountain range.

Elevations range from about 800 to 900 feet above sea level:

Drainage

The area has no permanent flow of water. Summer flash flooding have moderately dissected the gravel benches forming a N-S direction.

Vegetation

The primary growth of this desert area is the creosote bush with lesser amounts of other bushes and cactus such as the Saguaro and barrel varieties. In the arroyos, ironwood, mesquite and palo verde trees are found.

Proximity to Population Centers

The claim area is an unpopulated area with only the Copperstone Mine as the nearest neighbor. Quartzite is about 12 miles south of the area and Parker, a larger city, is nearly equidistant to the north via state highway 95.

Geology

Regional

The area surrounding the MNM project is composed of mountain ranges which are not aligned along the regional N-W trend present toward the east and south. Although in a non-aligned pattern, similar rocks such as Mesozoic metasediments, schist, gneiss and crystalling intrusives and Tertiary intrusives are present in both tectonic settings.

The reason for this variation of structural aligned mountain ranges is that the north end of the Dome Rock Mountains within which both. MNM and Copperstone are located was subjected to a different type of tectonism which altered the NW trend as large blocks of the Moon Mountains were detached or dislocated from their original location by means of large scale gravity gliding eastward and northeastward. some of the detached blocks were subsequently buried beneath varying thicknesses of alluvium.

The rocks composing the vome mock mountains (north) consist of Mesozoic metasedimentary, metavolcanic, igneous and metaigneous rocks which have been intruded by late Tertiary andesite and granite. Quaternary basalt flows cap low lying hills locally.

Structurally, the mountains of the area are bounded by high angle Basin and Range faults, however the low angle thrust faulting of the Dome Rock Mountains predates the Basin and Range faulting. This low angle faulting is responsible for the migration of detached blocks of rock from the Moon Mountains onto the Copperstone claims (hosting the orebody) and the MNM claims potential gold zones.

MNM Prospect Geology

As previously mentioned, only a small portion of the MNM claims have exposed rock outcrops. These outcrops are confined to the western edge of the claims and represent the eastern margin of the Moon Mountain area of the Dome Rock Range.

Petrographic work was done on four rock types. The following is a brief summary:

- 1. Sheared granodiorite-quartz latite(porphyry?)
- 2. Quartz Monzonite gneiss
- 3. Andesite
- 4. Breccia-silicified volcanic(?) and vein quartz with repeated crushing, cementing by hematite and quartz.

The complete petrographic analysis is available upon request.

Structure

A photogeologic interpretation of the MNM claims indicates a mostly N-NW structural trend. Geomorphic linear drainage patterns visible on photos are in my opinion a reflection of mostly N-S trending sub-parallel fracture system in the bedrock below the relatively thin overburden. The N-S fracture system is interpreted to be faults resulting from the eastward movement of detached blocks of varying rock types.

Geochemistry

Although only five geochemical samples have been taken on the MNM claims, results definitely indicate that anomalous gold and copper are present(see geochemical map). Further testing to determine if economical amounts of gold are within either host rocks or structures would seem to be a logical next step for these claims.

Other than the western margin of the claims along the Colorado River Indian Reservation boundary, no rock outcrops were observed eastward. The gravels that cover part of the area and some blow sand would probably not be an effective geochemical sampling medium for soil. The gravel originated as outwash from an ancestral lobe of the Culf of California therefore probably not a suitable carrier of trace elements from bedrock. It was locally observed however that small deposits of

spring water deposited lime is found within the gravels. This may have originated from buried blocks of limestone and may worth sampling.

Cyprus conclusively proved that there is a definite correlation between buried gold bearing breccia zones and anomalous CO₂ detected in gas collector cups buried a few feet below the surface. This gas testing would be effective for delineating drill target sites.

Geophysics

A wide spaced ground magnetic survey has been performed over the MNM claims. A total of 60,750 feet or 11.5 miles were magnetically surveyed. Spacing of readings along the N-S lines were 20 feet. The Distance between the sixteen N-S lines is 600 feet.

The survey was to determine magnetic profiles of the area. Several anomalous areas appear to reflect bedrock fault zones. The next phase of the magnetic surveying will be fill-in work enabling the construction of a contour map.

Photo-Goology Map-Greachemistry Copperstone Cerro de Oro Mining Co. MNM Claums and Cyprus Minerals Co. Copperstone Gold Deposit Outline NE Dome Rock Mans (E. of Moon Man) T. GN, R. ZOW GISRBM La Paz County - Arizona QH Qth Msch(!) minerals Au <0.02 ope Ag <0.05 ope Cu-24 ippm V-18 ppm 0946 Co - 14 ppm Kaiser Scale =1: 2000 0 Au - 0.13 ope Ag - 40.05 . pr Cu - 450ppm 2 Au-<0.02 ope Ag-<0.05 ope Cu-188 ppm Mo-5ppm V-17ppm Airphoto Interpretation By: F. Mack War. Quaternery Baowle L 7 " Laramide Granice f> O C. 80 Ppm Au - <0.02000 Ag - <0.05000 Cu - 15Eppm Mo - 5 ppm Mesazoie Mesorois Metas Sed, Volo ! Ignous Mech Drainage
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(Listric Fools) Mesocoic Quanta Latire porph. fclaims m n m Au <5 ppb Ag - <0.2 ppm As - <ppm Hg - 20ppb

DIRECTIONS TO THE MNM CLAIMS & COPPERSTONE AREA-LA PAZ COUNTY-ARIZONA

From Quartzite, Arizona(on Interstate 10)

North on Arizona state highway 95 about ten miles.

Proceed to mile post 121 then 0.7 miles further.

Turn west or left and enter wire gate, it should not be locked.

This is a dirt road, fairly well graded, sandy in places.

Westward and a little north, you can see the Copperstone project about 4 miles away.

Drive westward about 4.5 miles about where the road splits.

One branch goes NW to Copperstone and the one west goes toward the small mountain area. Go west toward the mountains for about 0.5.

After the road reaches the base of the mountain, it will skirt in a southwesterly direction, the base of the mountain. My claims are about 1.5 miles further south-southwest. You will pass another wire gate. The remainder of the route is difficult to explain as there are quite a few roads winding throughout the area. The Cyprus claim posts are 4' high, 4" PVC plastic pipe. My claim posts are wood, 4' high and 2"X2" and painted white. A pickup or four wheel drive will get to paractically any part of my claim block. The gravel ridges will permit, to some of the claims by car.

From Parker Arizona, take state highway 95 south, turn on 95 at Junction of Route 72 to Quartzite-Interstate 10 and drive to mile post 122 and drive 0.3 miles further. This is the gate previously described, turn right or west and follow above instructions.

Copperstone Mine Statistics

Proven Reserves- 6 million tons. 2.5 million more probably tons(10 yr. life) Ore grade- 0.09 ounces per ton of gold Open pit mine dimensions- 4,000' X 2000' and 300' deep Gold content- about 600,000 ounces
-Planned production rate- 2,300 tons per day

@60,000 ounces per year, @95% recovery, Cost to produce one ounce of gold-\$200, a net profit per year will be about \$11,400,000.

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Gold Reef Lode Mining Claims

G = GAMBLER

SCAR 1" = 2000'

Gold Reef Lode Mining Claims

Sections 21,22,27,28,33,34 Township 6 N. Rance 17 W. G. SK.

LA PAZ COUNTY AxizONA

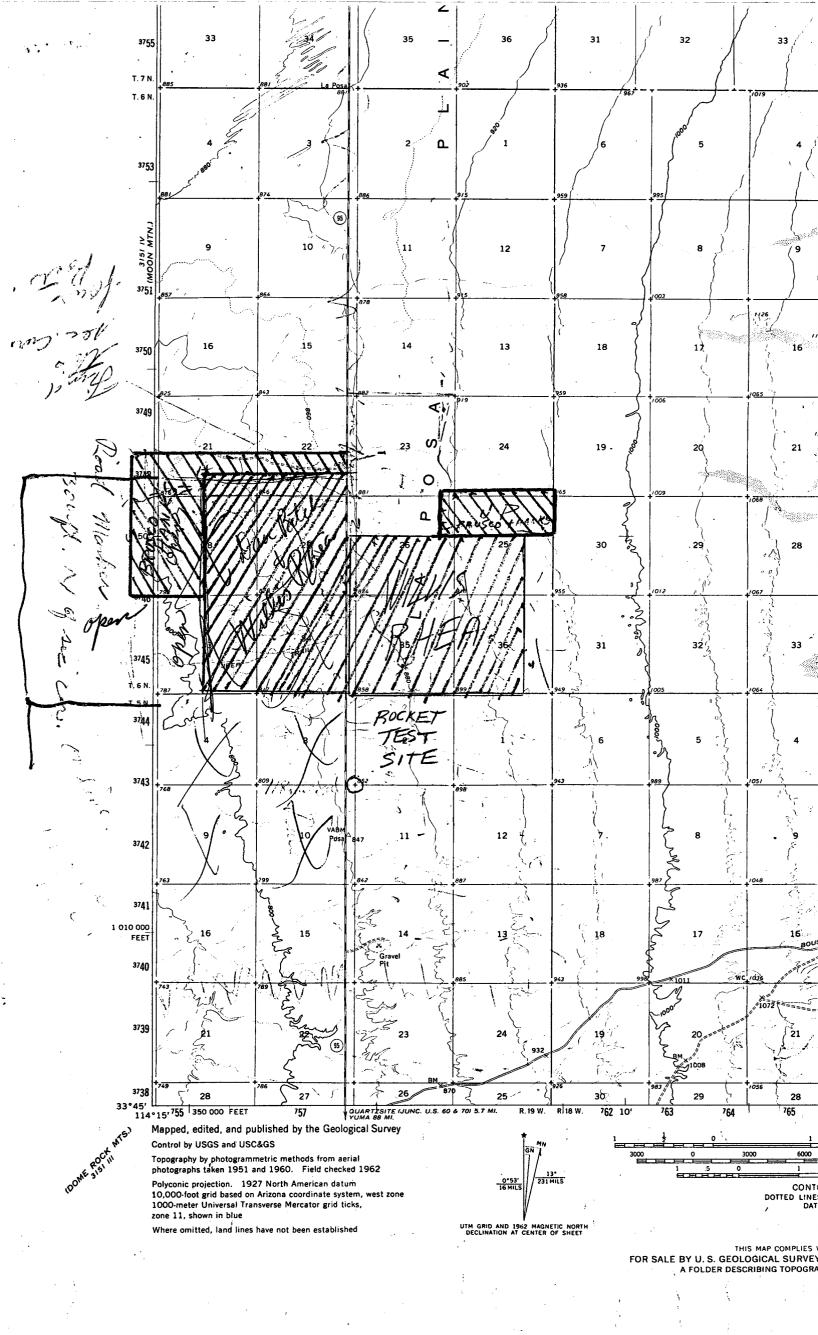
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P. O. BOX 1949 GLENDALE, AZ 85311

GLENDALE, AZ 85311 (602) 931-1038

May 08, 1988

Hugo Dummett WESTMONT MINING CO. 2341 South Friebus, Ste.#12 Tucson, Arizoan 85713

RE: WELL IN T6N R19 & 20W

Dear Hugo,

Pursuant to your direction, we have researched the Arizona Department of Water Resources for the existance of water or exploration drill holes in the captioned lands.

The two (2) well logs, hereto attached, are for the most Southerly of the wells. These are Cyprus Copperston's water supplies.

Other drill holes, mineral exploration or water, exist in Sections 2, 4, 6, 7, 12, 17, 22 & 23, T6N, R19W; and Sections 1, 11, 12, 14, 16, 26 & 27, T6N, R20W. In Section 12, T6N, R20W, Cyprus did not file the logs for their mineral exploration holes.

If you have any questions or desire additional information, please do not hesitate to contact us.

Very truly yours,

MINEX COMPANY

Tames A Hutchison

President

enclosures.

STATE OF ARIZONA DEPARTMENT OF WATER RESOURCES 99 EAST VIRGINIA AVENUE PHOENIX, ARIZONA 85004

WELL DRILLER REPORT

This report should be prepared by the driller in all detail and filed with the Department within 30 days following completion of the well.

(Owner CYPRUS MINERALS CO	· · · · · · · · ·
,	Name	
_	7200 S. ALTON WAY, ENGLEWOOD, COLORADO 80155 Mailing Address	
	-	
]	Driller B-J DRILLING COMPANY, INC.	
_	P.O. BOX 815, BENSON, ARIZONA 85602 Mailing Address	1
	N 195,33°	. (\$)
	Location of well: TWP. 6N., RGE. 19W., SECTION 3: NEX, NEX, NEX	an F
	Permit No	200
	(if issued)	
	DESCRIPTION OF WELL	
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	•	
	Type of casing STEFI.	to
	Diameter and length of casing 10" in. from +1' to 23', 8 in from +16"	
	<u>640'</u> .	
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	(00 - (00 - (10)	580-6
	Number of cuts per foot	<u></u> 0
	If screen was installed: Length ft. Diam in. Type 24 SL/FT 5482	.640 °C
	· DDIIIDD	
	Method of construction DRILLED drilled, dug, driven, bored, jetted, etc.	
	Date started 7/08/86	
•	Month Day Year	
	Date completed 7/11/86	
•	Month Day Year	
	Depth to water STATIC @ 499 ft. (If flowing well, so state	
	the sea-level eleva	ation
•	if available TOP OF CASING	
•	If flowing well, state method of flow regulation: DO NOT WRITE IN THIS SPA	ACE
	OFFICE RECORD	
•	Remarks: Registration No. 55-514525	
	Received By	
	Entered By	4
	File No. B(6-19)3 aaa	

ENTERED SEP 02 1986

0.70

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

From (feet)	To (feet)	Description of formation material
0	20	SAND
20	35	GRAVELLY SAND/SANDY GRAVEL
35	171	CLAYEY SAND
171	185	CLAYFY, SANDY GRAVEL
185	192	CLAYEY SAND
192	209	SAND
209	335	SANDY GRAVEL/GRAVELLY SAND
335	345	GRAVELLY, STITY SAND
345	355	SAND
355	397	SILTY SAND/SANDY SILT
397	535	GRAVELLY SAND/SANDY GRAVEL
535	555	SANDY SILT
555	564	SAND
564	590	GRAVELLY SAND
590	630	SILTY, SANDY GRAVEL
630	634	GRAVEL.
634	640	CLAYEY SILT (BOUSE FORMATION)

I hereby certify that this well was each and all of the statements herein conbelief.	drilled by me (or under my supervision), and that ntained are true to the best of my knowledge and Driller Adult O. Achieve
	B-J DRILLING COMPANY, INC.
	P.O. BOX 815
	Address
	BENSON, ARIZONA 85602
	City State 21p
	Date 0/25/96

STATE OF ARIZONA DEPARTMENT OF WATER RESOURCES 99 EAST VIRGINIA AVENUE PHOENIX, ARIZONA 85004

WELL DRILLER REPORT

This report should be prepared by the driller in all detail and filed with the Department within 30 days following completion of the well.

1	Owner	CYPRUS MINERAL	···		, C 66.	
••			N	anic	20155	
		7200 S. ALTON W	AY, ENGLEWOOD, O	g Address	00177	
,	D . 233	B-J DRILLING CO		6		
2.	Driller		BENSON, ARIZONA	ame 85602		01/1/0
			Mailin	g Address	3	3) 19 110
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Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

From (feet)	To (feet)	Description of formation material
0	51	SAND
51	70	GRAVELLY SAND
. 70	100	CLAYEY, GRAVELLY SAND
100	115	GRAVEL
115	135	GRAVELLY SAND
135	167	SANDY SILT/SILTY SAND
167	190	SAND
190	280	SANDY GRAVEL/GRAVELLY SAND
280	293	SAND
293	325	CLAYEY, GRAVELLY SAND
325	406	CLAYEY SAND/SANDY CLAY
406	470	CLAYEY, GRAVELLY SAND/CLAYEY, SANDY GRAVEL
470	475	SANDY, GRAVELLY CLAY
475	495	CLAYEY, SANDY GRAVEL
495	505	SANDY CLAY
505	565	CLAYEY GRAVEL
565	600	SANDY, GRAVELLY CLAY
600	644	CLAYEY GRAVEL/GRAVELLY CLAY
644	657	CLAY (BOUSE FORMATION)
,	-	

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein contained are true to the best of my knowledge and belief.

Driller

B-I DRILLING COMPANY INC.

B-J DRILLING COMPANY, INC.
P.O. BOX 815
Address

BENSON, AZ 85602
City State Zip

Date 8/25/86

DRILL HOLE DATA

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1014	RIGW

SEC	REG NO	Mx/water
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6	509488	
7	509487	
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22	516871	WATER - Dry 650'
22	517883	WATER
22	517526	WATER
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27	518506	m x

December 31 1987 8655 East Phillips Avenue Englewood, CO 80112

Mr. William Rhea Star Route, Box 24 Salome, Arizona 85348

Dear Bill:

Please find enclosed some information on my MNM claims located on the south boundary of Cyprus Minerals Copperstone claims.

In addition to this report, I have:

- 1. Geology-Assay drill log from hole drilled on the western edge of my claims.
- 2. North-South and East to West ground magnetic profiles.
- 3. Petrographic and geochemical results from Phelps Dodge.

If anyone you show the property to has interest in any of the above data, just call my home and my wife will mail it off to the interested party

Very truly yours,

Frank Mack