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PROPERTY EXAMINATION

BARRETT CAMP, COCHISE COUNTY, ARIZONA

EXECUTIVE SUMMARY

The Barrett Camp area, located three miles N70°W from the town site of Courtland, Arizona, exhibits extensive alteration and mineralization. A Tertiary quartz monzonite has intruded the Precambrian Pinal Schist and lower Paleozoic sediments. The quartz monzonite exhibits phyllic and potassic alteration and calcsilicate skarn has formed in the Cambrian Abrigo Limestone. There is potential for copper and zinc skarn deposits, a porphyry copper deposit, and fissure vein deposits. Gold and silver will probably be coproduct/byproduct of any base metal operation. Land acquisition and additional work are warranted as the area does not appear to have undergone exploration by modern methods or drilling.

PROPERTY EXAMINATION
BARRETT CAMP, COCHISE COUNTY, ARIZONA

INTRODUCTION

A one day property examination of the Barrett Camp area, Cochise County, Arizona was conducted May 23, 1989. The area in question comprises 6 sections; sections 10, 11, 12, 13, 14 & 15 T19S, R24E. There are approximately 23 patented claims trending east-west through the area. The site of Barrett Camp prospects is situated approximately three miles N70°W from the town site of Courtland, Arizona. Figure 1, location map, shows the property to be in the southeastern corner of Arizona. The purpose of the examination was to determine the potential for an ore deposit in the Barrett Camp area.

DISCUSSION

Because of time constraints, the examination was concentrated in and along the old workings. The majority of the workings are concentrated in the area of the common section corner, sections 11, 12, 13 & 14.

The general geology, Figure 2, shows a Tertiary (?) quartz monzonite intruding the Precambrian Pinal Schist, the Cambrian Bolsa Quartzite and Cambrian Abrigo Limestone. Northeast and northwest trending faults cut both the quartz monzonite which is in places intensely sheared, and limestone. The up-to-the-southeast movement on the main northeast trending fault has apparently caused a repetition of the Abrigo Limestone to the southeast. In the South Pass area of sections 10 and 15 the quartz monzonite has apparently intruded the Pinal Schist. In this area the exact relationship of the lithologies to each other is unclear because of extensive cover and poor exposures.

The alteration in the quartz monzonite is often intense, making it difficult at times to determine original rock type. The alteration is primarily phyllic and potassic, at times with a retrograde overprint of propylitic alteration.

At several places near or on the contact of the Abrigo with the monzonite, calcsilicate skarn and gossan have developed. The skarns do not appear to be extensive but do hint of 'things to come'. These skarns appear to be exoskarns with a retrograde overprint of epidote and chlorite (?).

The mineralization observed by the writer in the field is as follows. The phyllic alteration except where silicified is generally well leached with sky blue and aqua turquoise filling fractures. Pyrite is preserved where silicified. Otherwise it is limonite after pyrite and indigineous and exotic (transported) red-brown and yellow and yellow-brown limonite. Some of the red-brown limonite appears to be 'live', probably indicating chalcopyrite. In addition some very minor ferrimolybdate (?) was observed on one traverse. The mineralization in

the potassic zones is primarily pyrite with minor chalcopyrite.

The skarn at T-4, NE $\frac{1}{4}$, NW $\frac{1}{4}$, NW $\frac{1}{4}$, Section 13 has malachite and azurite and abundant iron/manganese stain. The skarn at T-6, SE $\frac{1}{4}$, SE $\frac{1}{4}$, SE $\frac{1}{4}$ Section 11 has no visible mineralization. Both calcsilicate skarns exhibit retrograde metamorphism and the skarn at T-4 is sheared and brecciated. The sample at T-5, a very nondescript prospect pit at top of ridge at contact of quartz monzonite with the Abrigo Limestone showing no apparent mineralization, carries in excess of 0.1% Cu and 0.1% Zn with 0.044 oz/t Ag. The skarn at T-4 carries 0.1% Cu. And the unmineralized skarn at T-6 carries anomalous values of Au, Ag and Zn. For actual values, the reader is referred to certificate of analysis Mountain States R & D International, Inc., "T" series, attached at the back of this report.

T-7, from the prospect pits in the South Pass area, contains anomalous values in Au, Ag, Cu and possibly Pb and Zn. The prospects in the Pinal Schist are apparently near or along the contact with the quartz monzonite. The Pinal Schist is gneissic in the vicinity of the contact.

CONCLUSIONS AND RECOMMENDATIONS

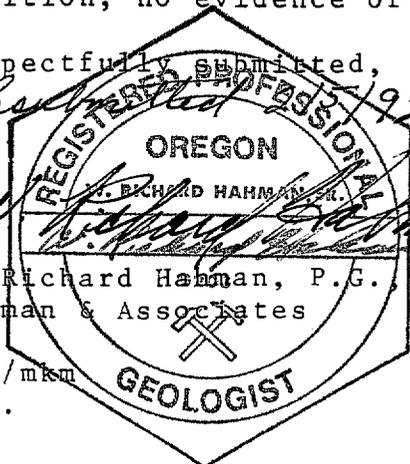
Because of the extensive mineralization and alteration, it is the writer's opinion that the Barrett Camp area warrants additional work. There is definite potential for the following types of ore deposits: copper and zinc skarn deposits developed in the Abrigo Limestone; porphyry copper deposit in the quartz monzonite; fissure veins developed in the Precambrian Pinal Schist and Paleozoic sediments. Gold and silver will in all probability be a coproduct or byproduct of any base metal deposit in the Barrett Camp area.

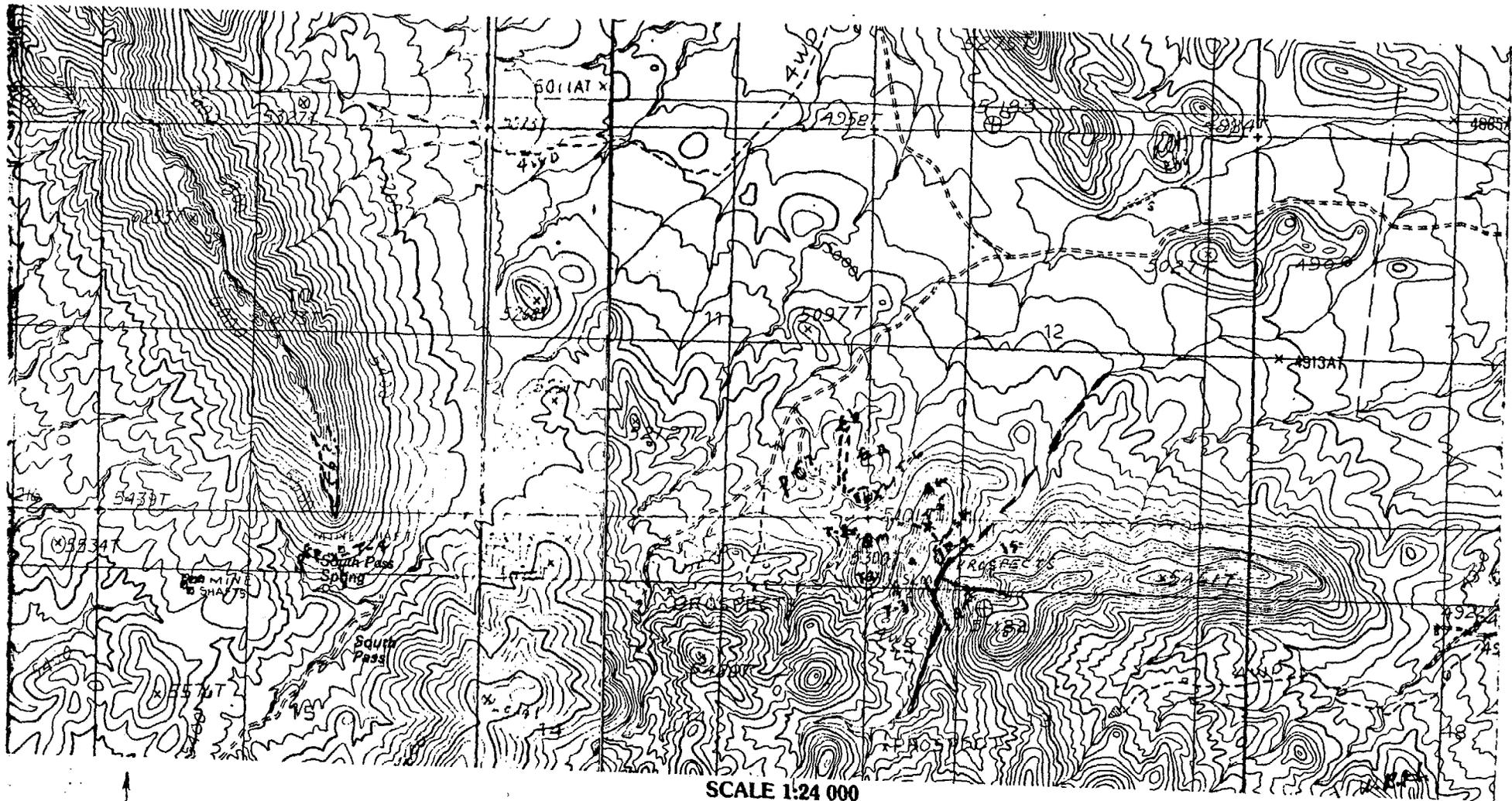
Therefore the writer recommends that **ASARCO** give very serious consideration to acquiring, at reasonable cost, some or all of the available property in the Barrett Camp area. Possibly regional airborne magnetics and regional gravity surveys would be useful in further refining the area(s) of interest.

It should be pointed out that the Barrett Camp area does not appear to have been explored by modern exploration methods. In addition, no evidence of drilling was observed in the field.

Respectfully submitted,

Respectfully submitted,
W. Richard Hahman
W. Richard Hahman, P.G., C.P.G.
Hahman & Associates
WRH/mkm
enc.

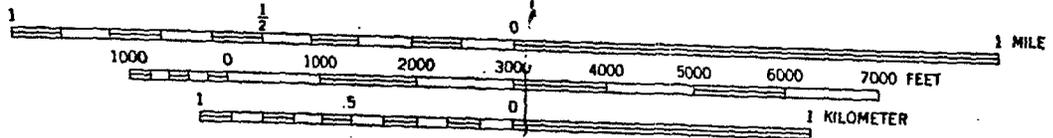




NORTH

fig. 1

SCALE 1:24 000



QUADRANGLE LOCATION

PROVISIONAL MAP
 Produced from original
 manuscript drawings. Infor-
 mation shown as of date of
 field check.

CONTOUR INTERVAL 20 FEET

LOCATION MAP

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
 FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225
 OR RESTON, VIRGINIA 22092

WIDE WORLD OF MAPS, INC.
 2626 W. Indian School Rd.
 Phoenix, AZ 85017
 (602) 279-2323

1	2	3	1 Knob Hill
			2 Cochise Stew
			3 Pearce
4		5	4 Haberstock I
			5 Turquoise M
			6 Tombstone
			7 Hay Mountain
6	7	8	8 Outlaw Mtn

ADJOINING 7.5 QUADRANGLE #

GEOLOGIC MAP
 BARRETT CAMP
 ARIZONA

LEGEND

-  Qal Alluvium
-  Tsk Skarn
-  Tqm Quartz Monzonite
-  Ca Abrigo Limestone
-  Bq Bolsa Quartzite
-  pcp Binai Schist
-  contact
-  FAULT
-  Road



SCALE 1:24000

Fig 2

Certificate of Analysis

CERTIFICATE NO. 89-065-F

**MOUNTAIN STATES
R & D INTERNATIONAL, INC.**

PROJECT NO. 1101

DATE 6/9/89

MSRD NO.	SAMPLE IDENTIFICATION	Au	Ag	Cu	Pb	Zn
		ppm	ppm	ppm	ppm	ppm
13814	Sample T-1	0.01	0.4	0.016% 155	21	20
13815	T-2	ND	1.3	0.038026% 162	25	19
13816	T-3	0.01	ND < .2	0.012% 124	14	36
13817	T-4	ND	ND < .2	0.1% 999	29	0.013% 127
13818	T-5	ND	1.5	0.044026% > 0.1% > 1000	19	> 0.1% > 1000
13819	T-6	0.01	0.4	29	55	0.01% 110
13820	T-7	0.006026% 0.19	0.08026% 2.9	0.06% 597	96	94
		Au	Ag		As	Se
		ppm	ppm		ppm	ppm
13821	Sample M-0	████████	ND < .2		████████	ND < 4
13822	M-1	████████	ND < .2		████████	ND < 4
13823	M-2	████████	████████		████████	ND < 4
13824	M-3	████████	ND < .2		████████	ND < 4
13825	M-4	ND	ND < .2		████████	ND < 4
13826	M-5	████████	████████		████████	ND < 4
13827	M-6	████████	ND < .2		████████	ND < 4
13828	M-7	████████	ND < .2		████████	ND < 4

STATEMENT OF CHARGES. INVOICE WILL FOLLOW.

7	Fire Assay Au&Ag @ \$ 10.00:	\$ 70.00
7	Cu, Pb, Zn @ \$ 5.50:	\$ 38.50
8	Fire Assay Au @ \$ 8.50:	\$ 68.00
8	Ag, As @ \$ 7.00:	\$ 56.00

8	Se @ \$ 7.50 :	\$ 60.00
15	Sample Prep @ \$ 4.00 :	\$ 60.00

Total Charge \$ 352.50

ND (None Detected)



Marvin D. Schloafman
Registered Assayer

⑧

The Quabisco Mining District

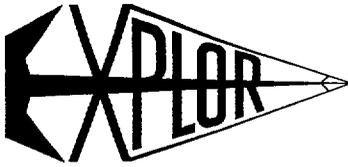
Cochise Co. AZ

May 23, 1989 Sunny, Warm

5180 prospect NE 1/4 NE 1/4 NE 1/4
Section 14 T19S R24EHighly altered and sheared
Quartz Monzonite sericite/epidote/
K-feldspar, biotite and muscovite
Turonese filling fractures
Apparently a true quartz mineRandom grab sample T-1 altered
limonite stained Qm. Photo #1Traversing along side hill hematitic
limonite appears at times transported
and possibly very minor ferromagnesianT-2 Random grab sample from
dump at prospect. Altered Qm
lim & red brn limonite, Turonese.
Photo - 2T-3 Prospect shaft (5260) several
hundred feet deep on N70E
trending fault. H₂O in bottom
of shaft. Sampled Qtz/K-spar/
epidote/sericite rock w/ disseminated pyrite, chpy.
Photo - 3.T-4 (Photos 4 & 5) calc silicate,
epidote/clay sheared & brecciated
w/ malachite & azurite and
abundant iron/manganese stain
Contact metamorphic. These
workings possibly link-up w/
the T-3 prospect. There is
a blue flagging marker at this site

⑨

T-5 Top of hill at (5300) contact
of Mariposa ls. (Chert?) and
Qm (altered, sheared, healed)
No photo. Random grab dump sample
from very small prospect pitT-6 Calc silicate skarn retrograde
epidote/ferroite (?). In the Abrigo.
No photo. Contact metamorphic.T-7 Apparently contact between
Pinal schist & QM. Minor copper
stain on dumps - 3. Grab sample
middle dump - Qtz, PGM, QM
Photo #6. Pinal schist is gneissic
in vicinity of contact. Balsa appears
to cap ridge - considerable Balsa floatThese claims and C sections are
most interesting in that the
Quartz Monzonite is in many instances
very highly altered & fractured, phyllic and
potassic. In addition to alteration
the Quartz monzonite is mineralized
T-3 disseminated pyrite & malachite
in potassic alteration. The phyllic
zones are generally leached
with Turonese being the only
indication of mineralization
with the exception of the red-
brown and pyritic brown limonite
Some of the red-brown limonite
appears to be "live" with skarn, mineral-
ized, altered QM and limonite, good
chance for pyrometamorphic & porphyry ore.



February 5, 1992

Dear Jim,

Looks like Kath and I will see you and Marni in Phoenix at the AIME/SME convention. Might just be a good place to look for work.

Enclosed is my 2.5 year old report on Barrett Camp in Cochise County, AZ. In my opinion the property has tremendous potential. My former client had absolutely no interest in the property. Now that they have or are in the process of putting all their eggs in the Nevada basket I think you should take a look at it.

Best regards,
Dick