Red Hills (71-16) The property, located 12 miles east of Hawthorne, Nevada, consists of altered quartz-monzonite porphyry intruded into volcanics of the Excelsior Formation. Malachite, limonite and pyrite are present in both the intruded rock and the host rock. The favorable aspects of the property are not very outstanding, but the possible size and the presence of alteration, mineralized rocks, and appropriate rock types warrant preliminary mapping before a final evaluation is made.

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RED HILLS PROSPECT

Sections 27 & 28; T. 9N., R. Minerals County, Nevada

Abs: The property, located 12 miles east of Hawthorne, Never, consists of altered quartz monzonite prophyry intruded into volcanics of the Excelsior Fm. Malachite, limonite, and pyrite are present in both the intruded rock and the host rock. The favorable aspects of the property are not very outstanding but the possibile size and the presence of alteration, mineralized rocks, and appropriate rock types warrent preliminary mapping before a final evaluation is made.

The property is located in the foothills south of the Gillis Range, northeast of Hawthorne, Nevada. Easy access is obtained by dirt road going north from U.S. Route 95, approximately 12 miles east of Hawthorne.

The property is located in the Excelsior Fm. (Triassic).

These are acid and intermediate volcanics and pyroclastics. Scattered small outcrops of altered quartz monzonite porphyry are exposed in bulldozed trenches.

Malachite, limonite, and pyrite are present on the property.

The malachite occurs as coating along fractures and as interstitial grains to a far lesser extent. Limonite is present as stain or joint surfaces and in blebs. Minor amounts of pyrite occurs in small grains. None of these minerals are restricted to a particular rock type.

In some bulldozer trenches, a grey altered quartz monzonite porphyry occurs. It is composed of a very fine grained quartz feldspar ground mass with plagioclase phenocrysts. The plagioclase grains which are large enough to be easily observed are partially altered to clay. The rock is shattered and lined with quartz veinlets varying from hairline size to $\frac{1}{4}$ " across. Malachite staining occurs on joint surfaces in some outcrops.

PED HILLS PROSPECT

Sections 27 & 28; P. ON., B. P. Pinerals County, Nevads

Abs: The property, located 12 miles east of deworking, here's, consists of sitered quartz monzonite prephyry intruded indewol-cardes of the Excelsion Fm. Melachite, limopite, and pyrite are present in noth the intruded rock and the host rock, the favorable espects of the property are not very outstanding out the possibile size and the presence of alteration, mineralized rocks, and appropriate fook types warrent preliminary mapping before a finel evaluation is made.

The property is located in the forthills bouth of the Gillis Pange, northing to Jawanes, Meyede. Hesp secess is obtained by dirt road going moreh from U.S. Route 95, approximately 12 miles west of Hawtherne.

The property is located in the Excelsion Fu. (Trissoic).

In see are soid and intermediate volcanics she byroclastics. Scattered amail obscrope of altered quarts monscrite porphyry are sxross; in bulldoged trenches.

Malachite, limopite, and pyrite are present on the property.

The malachite occurs as conting along fractures and as intensittiel grains to a far leaser extent. Limonite is present as atain
or joint surfaces and in blebs. Minor emounts of pyrite occurs
in small wrains. None of these minorals are restricted to a particular rock type.

In some bulldower tremches, a erry eight consonius porphyry occurs. It is composed of a very fine craimed quarta colorpar ground mase with planioclass phenocrysts. The planio-class grains which the account to be easily observed erapertially although to be easily observed erapertially although to eleven is should end with quarta void account of the partitions in some cutchops. Malachity staining occurrence of the end of the en

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The property may be looked at as two prospects approximately 12 miles apart. In the westerly area, bulldozer trenches reveal the quartz monzonite outcrops and malachite The malachite is light but widely distributed. shows. the easterly area, there is a 240' tunnel and a set of old workings in addition to the trenches. The tunnel is in acid volcanics and shows malachite staining and some pyrite. Near the tunnel but not intersecting it is an outcrop of the por-The old workings are not included in the Mineral County records, so detailed information is not available. A shaft and adit are located on an intermediate volcanics/granite Quartz veins were worked, probably for silver. The contact. workings were not entered. In other respects, the two prospects are similar.

It is a good possibility that the two prospects are the ends of a continuous zone. If so, the size of the area, the presence of copper mineralization, and the presence of altered quartz monzonite outcrops indicate that this area is a suitable exploration possibility. None of the above mentioned elements are especially outstanding, so the project should rate a lower priority until preliminary work is completed.

I would recommend a reconnaissance mapping program as the first step to an exploration program. This should indicate the size and type of intrusion, the continuity of the mineralized rocks, and the overall dimensions of the favorable ground. This step would require two work weeks for a geologist and helper.

Date: 2/12/71

Roland Connors, Geologist

L.C. L.

The preventy may be looked at as two prospects approximately 12 miles epart. In the west all area, buildozer trenches never the guests moncosite outcrups and melechite shows. The malechite is light but widely distributed. In the essterly eres, there is a 2/0' tuppel and a set of old workings in addition to the trenches. The tuppel is to ecid volcanios and shows melechite staining and some pyrite. West the tuppel but not fout not intersecting it is an outcrop of the portionary. The old workings are not included in the Mineral County records, so detailed information is not evailable. A shaft and add are located on an intermediate volcanios/granice contest. Quartz vetes were worked, probably for silver. The workings were not entered. It other respects, the two presequences are similar.

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Late: 2/1

Rolend Connors, Geologiau

GEOLOGICAL ABSTRACT OF MINING PROPERTIES	METALS Copper	METALS Copper	
NAME: Red Hills STATE: Nevada TOWNSHIP: T 9N NEAREST TOWN: Hawthorne NUMBER OF CLAIMS: //6 GEOLOGIC and/or MINING PUBLICATIONS:	DATE OF VISIT: Feb. 3 TOPO MAP: Walker Lak	, 1971	
Date: Operator: Scale:	Production Grade Nat	ure Grade	
NONE			
GEOLOGICAL SETTING : - Regional Description, host	rocks:		
	ics of the Excelsior Fm.		
- Intrusive rocks related to the ore: Quartz Mo	nzonite Porphyry	·	
- Alterations: Silicification and Argilliti	zation in QMP		
Mineralizations Type: Malachite			
Hypogene:	Supergene:		
Erra 1	ation	.	
Favorable Elements:	Unfavorable Elements:		
Canadian Aero - I.P. Survey	LOW GRADE SHOWINGS	-	
SIZE	LEW GIRPU - TI		
LEGAL STATUS			
Land Status: VALID CLAIMS Extensions and neighbors: NONE			
Type of Agreeme	nt requested		
Option	End Price		
\$300/Mo. First Year	\$1,000.000.00		
	SUBJECT TO LATER	REVIEW,	
EVALUATION OF SUBJECT	Remarks:		
Size of Subject Probability of discovery	ALL REQUIREMENTS FOR	POTENTIME Y	
Tonnage Grade	GOOD DEPOSIT AKE PRO	5-5 ENT	
	# ***		

Pyroclestics and Volcanics of the Excelsion Fm. Cenadian Aaros - I.P. Survey