



CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
416 W. Congress St., Suite 100
Tucson, Arizona 85701
602-771-1601
<http://www.azgs.az.gov>
inquiries@azgs.az.gov

The following file is part of the Grover Heinrichs Mining Collection

ACCESS STATEMENT

These digitized collections are accessible for purposes of education and research. We have indicated what we know about copyright and rights of privacy, publicity, or trademark. Due to the nature of archival collections, we are not always able to identify this information. We are eager to hear from any rights owners, so that we may obtain accurate information. Upon request, we will remove material from public view while we address a rights issue.

CONSTRAINTS STATEMENT

The Arizona Geological Survey does not claim to control all rights for all materials in its collection. These rights include, but are not limited to: copyright, privacy rights, and cultural protection rights. The User hereby assumes all responsibility for obtaining any rights to use the material in excess of "fair use."

The Survey makes no intellectual property claims to the products created by individual authors in the manuscript collections, except when the author deeded those rights to the Survey or when those authors were employed by the State of Arizona and created intellectual products as a function of their official duties. The Survey does maintain property rights to the physical and digital representations of the works.

QUALITY STATEMENT

The Arizona Geological Survey is not responsible for the accuracy of the records, information, or opinions that may be contained in the files. The Survey collects, catalogs, and archives data on mineral properties regardless of its views of the veracity or accuracy of those data.



UNION CARBIDE CORPORATION
MINING AND METALS DIVISION

741 RYLAND STREET, RENO, NEVADA 89502 - 702-323-0663

March 25, 1974



Ken Jones & Return
TO *Bud Temple*
FROM
PAUL EIMON
4/9/73
DATE

EXM

APR - 8 1974

RECEIVED

Mr. Eugene J. Demeter
Minerals Exploration Dept.
Getty Oil Company
3810 Wilshire Blvd.
Los Angeles, California 90010

Dear Gene: Re: Victoria Mine, Elko County, Nevada

Here are some facts and figures about Anaconda's new Victoria property, located in the Dolly Varden Mountains (Sec. 5, T.28N., R.66E.), from a talk by Win Seymour, Manager, and staff, at the Northern Nevada Section AIME, 3-8-74.

Reserves: 3.5 million tons, 2.5% Cu (millhead grade - presumably includes dilution), high Bi, low Ag, no other credits. Cutoff unknown.

Geology: Zoned breccia pipe, 60-70° dip, tops out 50' below the surface, 200' west of the old Victoria shaft, cutting Permian Pequop sandy limestone. Pipe is near (1,000'?) the south contact of the Melrose quartz monzonite stock (K-Ar 135 m.y.) but no igneous material in orebody (but a 3,000' hole in the pipe contains fine grained equivalent of Melrose rocks at depth). Blocks in pipe range from ½" to 6-8', fragments rotated and separated. Size of orebody about 150 x 200 feet in initial pit, chalcopyrite surrounded by pyrite halo, bottoms (600') in pyrite. Strong IP anomaly (Anaconda measuring phase angle in the frequency domain) but no magnetic anomaly over pipe.

Mining: Initial pit production 1,000 TPD, will beat startup date of 1-1-75 (began stripping late '73). Phase I pit 350 x 450', about 300,000 tons @ 2.9% Cu, 6.6:1 strip ratio, 59° pit walls. Phase II pit 483,000 tons @ 2.75% Cu, 4.34:1 strip ratio. Final pit (565' deep), 1 million tons @ 2.26% Cu, 6.74:1 strip ratio. To go underground in four years, use spiral ramp and LHD equipment. Mine life 10 yrs.

Milling, Economics: Concentrator being built on property, F. C. Torkelson contractor, mill cost \$3,500/Ton/day plus power line, 34 miles from Loge's Station. Total capital to put into production, \$7.8 million. Concentrate trucked to Wendover, shipped to Anaconda by rail, treated by Arbiter process (have not yet solved the Bi problem).

I enjoyed our session last week, and hope that you find a situation to your liking soon.

*PhD Thesis by G.B. Snow U of U
now @ Noran dex in Denver*

Very truly yours,

Pete Hahn
P. H. Hahn
District Geologist

PHH:rs

MINERAL TARGET RESUME

Target Type		Breccia Pipe in Limestone			Submittal #	
Target Dimensions				Commodity - Grade		
Ore Deposit Size		Reserves		Cu %	Bi	Ag
max						
min						
av.	150' x 200' x 600' deep	3.5 million tons	(mill head = 2.5)			
total past prod. = 75,000	Production Plan start 11/75 mining phase I pit 350' x 450' 300,000 t @ 2.9% Cu @ 6.6:1 SR 59° pit walls			mill capacity	1,000 tpd.	
	Phase II pit 483,000 t @ 2.75% Cu 4.34:1 SR go ugd in 4 yrs			mining method	open pit / ugd	
Geologic Setting: formations in chronologic order oldest to youngest, intrusive rocks, breccia, host rocks underlined, thickness of actual (or projected) cover ore bounding structures.						
<p>Permian Pequop sandy Limestone cut by breccia pipe with rotated, separated fragments 1/4" to 6-8' diameter located about 1000' S of Melrose g.m. stock. A 3000' ddh in the B.P. contains fine grained equivalent of Melrose g.m. at depth, but not in ore zone. Overlain by Dolly Varden pyroclastic volcanics 2500' - 0' (Oligocene?). Permian Pequop ls cut by diorite dike near Victoria mine, strike 1 1/2 miles x 500' wide ^{generally} (unaltered). Chloritized with calcite + epidote near Victoria.</p>				Age 135 my K-Ar		
Mineralization Zoned breccia pipe 60-70° dip, top is 50' below surface. many Copper prospects are dispersed over the range, veins in NW trending fissures in Melrose stock.			Ore Mineralogy		Gangue	
			CPY, PY, bismuthinite		LS, qtz, calcite	
			Primary Zoning pyrite halo, bottoms in pyrite			
Prospecting Guides			Alteration			
Strong IP anomaly (phase angle - freq. domain) No mag. anomaly over B.P. Porphyritic qtz. monz. outliers on E range pediment cut by qtz-lattice dikes			pyritization, bleaching + marble of LS. silicification - jasperoid			
			Gossan			
			Sulfides at 70' depth			
History			Land 50 ac. ds			
1869 PbAg discovery 1872 Cu mining @ Victoria 1905 Gold discovery 1942 Anaconda opened Victoria, closed in '47. NJZ drilled 3 holes on Aeromag anomalies in 1958						
61-62 BCMC drilled + examined E pediment target of geol + geophysic. Reported to have drilled only 1 hole between targets + in Keystone Canyon - Spring Canyon area. deeper workings in the Victoria mine delineated mineralization disseminated in <u>breccia</u> .						
Ownership Anaconda						
Economics Total capital \$7.8 MM F.C. Torkelson contractor final pit 565' deep = 1,000,000 t @ 2.26% Cu 6.74:1 SR Mine life 10 yrs includes ugd spiral ramp and LHD. Mill cost \$3,500/ton/day plus 34mi power line Ship conc. to Wadover by truck and Anaconda Mont. by Rail use Arbiter smelting Building housing for employees, at mine site.						
Bi recovery problem						
References - Contacts						
Win Seymour Mgr talk in Reno AIME 3/8/74						
J.E. Welsh (KCC) identified Pz fossils G.G. Snow 1963 PhD Thesis UofU Geol. Map 1:24,000						
Proposal				By EFR	Date 4/74	
Follow Up						
Location Dolly Varden Mts 25 mi W of Utah - Nevada border. Sec 5 T28N R66E						
Name	County	State	Country			
Victoria	Elko	Nevada	USA			