860503

93m/4

Memorandum

To: File - Noriga

Date: 16 Jun 1992

From: M. Cannon - Metállurgical Technician File:

Subject: Stage #2 - Initial Testwork

1.0 Sample Preparation

The initial Noriga sample was delivered to the Met Lab by Geology on 04 May. As the sample was insufficient for a complete suite of tests, more sample was requested. The initial sample was stage crushed on 6 mesh and set aside pending the delivery of additional material.

The second sample was also stage crushed on 6 mesh, then mixed with the initial sample. 2000 gm samples were split out for flotation or leach tests. It was again noted that large amounts of black dust were generated during the crushing, screening and riffling stages of sample preparation. The crushed ore had a dark black/brown appearance with many glittery flecks.

2.0 Bond Work Index

The Equity Silver standard Bond Work Index test yielded a Work Index for Noriga of 10.01 kWh/t.

It was noted that the ground ore had a very sandy texture (much more sandier than Dome or Herne Hill). After the 26 min grind, the slurry rinsed easily from the rods; the rods did not stick to the sides of the mill which would indicate sliming. The slurry had a dark black/brown appearance with a green hue. The slurry looked much like a thin coating of sand on the rods. The product grind cake filtered in the pressure filter in approx 5 minutes; this compares with 15 min for Dome and Herne Hill and 1 hour for Equity ore. The product cake was very crumbly and clean cutting. Not much sand layer was noted. Absolutely no residue left on cutter.

When wet screening the product fraction, seemed to be green/grey portion and black streaks. These black streaks were also noticed when rinsing the rods from the grinding mill. MEMORANDUM Noriga Preliminary testwork Stage #2

3.0 Head Assay

The Head Assay was:

Cu	1.90%
Ag	41 g/t
Au	8.11 g/t
As	4.90% -
Sb	0.029%
Pb	0.004%
Fe	29.2%
Zn	0.039%
Co	0.294%
Cu Oxidized	0.192%
% Sulfides	19.1%

4.0 Magnetic Separation

A coarse , 2 stage magnetic separation was done on a head sample. The recovery was 37.2% as magnetics. Metals distribution in the two fractions was as follows.

Fraction	Assays			<pre>% Distribution</pre>			
	Cu	Ag	Au	Cu	Ag	Au	Fe
Magnetic	1.1	34	6.40	21.8	28.0	26.4	59.1
Non-mag	2.5	52	10.58	78.2	72.0	73.6	40.9

A second Magnetic separation was done on the plus 400 mesh portion of the product from the Bond Work Index test (the magnetics in the minus 400 mesh could not be separated out). The magnetic and non-magnetic portions were sent for assay.

Fraction	Assays			% Distribution			
	Cu	Ag	Au	Cu	Ag	Au	Fe
Magnetic	0.33	28	1.87	8.51	25.1	7.91	57.7
Non-mag	2.15	50	13.0	91.5	74.9	92.1	42.3

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EQUITY SILVER MINES LTD.

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September 14, 1992

Mr. Norm Browne 1010 8th. Ave. East Prince Rupert, B.C. V8J 2N4

Dear Norm,

Re: Noriga Property Omineca Mining Division

Enclosed is the metallurgical report on a 200 pound sample taken from the main vein on the Noriga property.

Although the head grades are encouraging, the recoveries for gold and cobalt are too low to warrant any possibility of custom milling by Equity Silver Mines Limited.

Thank you for bringing this project to our attention and good luck with your continued work. If we can be of assistance in any way, please call.

Sincerely yours

Daryl J. Hanson Exploration Geologist Equity Silver Mines Ltd.

MAY 28 92-- NORIGA / VICTORY. 93M/4. - GOLDEN WONDER. - REFLAENCES . SUTHERLAND BROWN A. The Geology of the Robert Debode Range. EMPR Balletin No 43, 1960 2. BSC MEMOIR 223 - ROCHE DEBUCE 650 ECONOMIC GEOLOGY #16 - ROCHE DEBOULE. 3. 4. ASSESSMENT REPORTS # 8336, 8333, 8705 (8521) 11/34 5. " 3463 - GOLDEN WONDER 6. EMPR GEOL MAP 69-1 # 284. EMPR BULL # 43. NEARBY PROPERTIES : 1. O.K. , O. K. SILVER Merrows: Au, Ag, Cu, Pb, 2n, MAMERACS. GL, SP, TT Grohogy: Hiffacens Jurassic SS & ARG intruded by Cretacence ganodiorite. 2. SILVERTON METALS. Au, Ag Pb, 2n MINERALS: GL, ZN. Geology: - alt ARG & SS Cut by light codoured acidic dytres smell gAz filled fissures hold some PY & GL. PAST PROD: TOMALES Au (g) Ag (g) Pb (165) Zn (165) 157 143 415 250,655 9,168 13,066 South Kenness 245 M C .62 g/t hu .64 s/t An gol M @ 023 % Cu. e 1.28 ° 1

MORICETOWN SILVER, TETRA 2n (165) Pb (135) Au (2) Ag (q) - PRODUCTION 485,767 317 6240 1976 7,145 212,185 84 2,612 1975 697, 952 401 6,240 9757 TOTAL Bowser Gp volc 55 intercalated as the to one peb congl. into V anticline /synchine pair & overfurned & cut - CEUCOGY by a fault on the east limb SP, GL, PY, TT, AS & mar BO, polybosite & pyrargyrite occur in shear like sein nelated to the synchine. - Ref: GCNL Jul 18, 1978 AR 1968 - 124 EMPR GEM 1969-99, 1970-172, 1976-E154 EMPR EMPR MIN 1975 EMPR Geol Map 69-1 # 232 GSC MAR 44-24, 971A

RALPH MEGIMM, (VICTORIA). CHIEF MINE INSPECTOR = APPROVAL OF VARIANCE TO DESIGNATED SATES. REGULATION of EXPLORATION SE - THRESHULD VALUES 0 05 70 U Check to varify in 05 70 Th. J. Crde book

POTENTIAL OF BOCHE DEBUKE / VICTORIA / NORIGA VEIN SYSTEM. VICTORIA Jim Harrel Conducted a sampling program on the VICTORIA mineral claim on behalf of ARGS RES. INC. in 56 A Samples were taken across the voin with the 1980 following results: AVG WIDTH: 52 cm Lu (7/6m) . 737 Co % .584 Mo % .058 Hutter's sampling outlined on ore reserve of 2045 tonnes however surface cuts above & to the east of the underground storkings sampled, indicade the zone remains strong. & "thus there is good possibility of finding one up to & possibly beford 150 meters past the end of the level. This would increase inferred reserves to ~ 108,000 tonnes above an elevation of 1740 m grading about = 35 og/ton Aa & 0.3 % Co. lover a mining width of ~1 m . In addition there may Obe pools of ne below the 1740 elev. The number 3 level 2 No. 3 adit) below the 1740 m elev showed good exposures of similar ore (.849 of /ton Au, .348 % Co, .009 % Mo.). PAST PRODUCTION Co 8. Gours 1/100 Mo 8 YEAR TONS 1918 26.6 1.24 1.18 . 96 26 22.0 4.65 4.6 3.4 6.25 23.0 3.76 28 2.6 2.18 40 7.7 1.4 41 73 2.02 3.4 3.92 41 did the granodionite) 90.0 fms 326 g. 4918 /65 2100 /65 TOTACS : VEINS occupy fractures in formed rear the contact of the Roche DeBule granodioride stack & Hezelton rocks GEOLOSY

GolDer Wonder Kindle (1954) reported assays taken from one piles outside the main shaft toon the bench above the quary showings. Assays are as follow: # Anthe Agile Cu To 6.50 1 :20 7.25 2 .46 7.63 4.69

002 .068 93M4 Golden Wonder AR 8521 Asarco Geology & Magnetic Survey July 80 July 80 conclusions: i) mag survey - post min faulting, mag intensity = lithology. i) namow minu alized shears. - not u. impressive assays for main rd. showing, strike the 5+1; Ke & 20m. 053 B-Au 07 au. 1.01 % Cu + Pb Zh Ag .09 % Co + Pb Zh Ag .08 % W AR-8323 Huckle berry MC. - prospecting. - diamond drilling by Chapparal Mines.) 13% Cu over 8 feet (holes drilled rearly parallel to the dip. °° width not true) @ NF end of dramlin ridge. AR- 8705 airborne EM & mag. C-long EW EM anomaly w/ co-incident mag low. coincident wag low. coincident w/ claim & cap vein. * (also zone of diss. PY from AR 8323) * + tool, tser ~ 600m. - diss. PY & fract DY + Kaol + ser alth 600 m dia. W coincident mag low and EM linear anomaly. * 1800 m. long EW. × 400 m wide Check EM alomaty an ground. 1. P. survey. hosted by, andesite Alow & fut is

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MAIN VEIN OZ TON SLUER GRANYS COPPER GOLD 9900 24070 32.5 2.656% 8200 1245 8.4 23520 8320 38.0 PERCENIT SAMPLE WAS FROM LOWEST SAMPAE TAKIN





