

MAP No.
116-A-5

ASSESSMENT REPORT
N. M. E. A. P.
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TYPE - OF
WORK: Geol.

REPORT FILED UNDER	Belmoral Mines Ltd.	DOCUMENT NO. 061494
DATE PERFORMED	April 10, 1974	DATE FILED: June 4, 1974
LOCATION - LAT. LONG.	64°16'N	AREA: Mike Lake, Yukon
	137°55'W	
CLAIM NO.	AS Gp.	
	GH Gp.	
VALUE \$		
WORK DONE BY	H.J. Toohey (Agilis Engineering L)	
WORK DONE FOR	Belmoral Mines Ltd.	
REMARKS	Addendum report on geology. Mineralization occurs as chalcopyrite and/or arsenopyrite with gold and silver in quartz veins and as finely disseminated chalcopyrite in the sediments or the syenite intrusive.	

061494

ADDENDUM REPORT
PROPOSED EXPLORATION PROGRAM
AS AND GH MINERAL CLAIMS
OF
BELMORAL MINES LTD. (NPL).

64° 16' N
137° 55' W
116-A-5

N.M.E.A.P.
Received Ottawa
June 4, 1974.

ADDENDUM REPORT

PROPOSED EXPLORATION PROGRAM AS AND GH MINERAL CLAIMS OF BELMORAL MINES LTD. (NPL) DAWSON MINING DISTRICT, YUKON TERRITORY.

INTRODUCTION

The As and Gh mineral claim groups are located 46 miles northeast of Dawson City and approximately 17 miles west of the Dempster Highway. Geographic coordinates are $64^{\circ} 16' N$. Latitude and $137^{\circ} 55' W$. Longitude. The topography is rugged and elevations range from 5000 to 6500 feet. Soil development is virtually non-existent.

GENERAL DISCUSSION

The Claim groups are underlain by Pre Cambrian or Cambrian sediments and metasomatic equivalents intruded by syenite intrusions. Dikes and sills ranging from porphyritic syenite to fine-grained diorite cut the invaded sediments.

Mineralization occurs in two distinct but spacially related modes. The first is chalcopyrite and/or arsenopyrite with gold and silver in quartz veins. The veins are localized by fractures within the syenite and generally trend easterly. The second is finely disseminated chalcopyrite in the sediments or the intrusive and may be accompanied by arsenopyrite and pyrite. This type is erratic and occurs along the intrusive contact zone. Sampling to date has not been extensive enough to give a good indication of the range in grades.

RECOMMENDATIONS

Further exploration is recommended to test the continuity, width and grade of gold-bearing vein structures and copper bearing shear zone. A program is proposed as follows;

1. Detailed geologic mapping of both groups at a scale of 1" = 200 ft.
2. Detailed mapping of showings at a scale of 1" = 40 ft.
3. Trenching and detailed sampling.
4. If feasible, electromagnetic survey using the Ronka shoot back method - 200 x 50 feet grid.
5. Diamond drilling if warranted.

COST ESTIMATE

1. Establish 4 man fly camp	1,000.00
2. Helicopter support, allow	2,500.00
3. Geologic mapping @ 1"=200 feet and detailed mapping @ 1"=40 feet.	3,000.00
4. Trenching	2,500.00
5. Engineering and camp supplies	1,000.00
6. Assays (Au, Ag and Cu)	600.00
7. EM survey, say 10 line miles	1,000.00
8. Diamond drilling, 1000 ft @ 15.00	15,000.00
9. Engineering and supervision	1,400.00
10. Contingency 20%	<u>5,600.00</u>
TOTAL:	33,600.00

Respectfully submitted,

Herbert J. Toohy,
Geologist,

Vancouver, B.C.

April 10, 1974.