

APPENDIX 34

PRELIMINARY DCF STUDY, MOINA FLUORITE

PROSPECT, JULY 1975. G. WESTE

Ore Reserve Tonnage - "Possible Ore"

A ground magnetic survey outlined three highly magnetic areas:-

- (1) the main body of skarn, partly exposed at Shepherd and Murphy Mine;
- (2) a faulted (down and SE) outlier on the east side of Bismuth Creek (E of the main body);
- (3) a small area west of the main body on Brampton Creek.

Possible Ore tonnages are derived from the area of high magnetic values and from the thickness of ore as determined by diamond drilling by Mt. Lyell.

A. Area of Ore:

- (1) Main body - 205,100 m²
- (2) Bismuth Creek Outlier - actual anomaly area = 48,000 m² but mapping indicates less than this. Assumed that actual area of ore = 20,000 m²
- (3) Brampton Creek Outlier - 19,200 m²

B. Thickness of Ore:

- (1) Main body - 31 m (ML 2)
- (2) Bismuth Creek outlier - ML 3A intersected 29.7 vertical m of ore; but entered the ore horizon from below its top. Estimated actual thickness of ore = 40 m
- (3) Brampton Creek outlier - no information - assume 25 m

C. Volume of Ore:

(1) Main body	205,100 x 31	=	6.360 x 10 ⁶ m ³
(2) Bismuth Creek outlier	30,000 x 40	=	1.200 x 10 ⁶ m ³
(3) Brampton Creek outlier	19,200 x 25	=	0.480 x 10 ⁶ m ³

D. Possible Tonnes of Ore:

		S.G. of ore approximately 3.5
(1) Main body	6.36 x 10 ⁶	x 3.5 = 22.260 x 10 ⁶ t
(2) Bismuth Creek outlier	1.20 x 10 ⁶	x 3.5 = 4.200 x 10 ⁶ t
(3) Brampton Creek outlier	0.48 x 10 ⁶	x 3.5 = 1.680 x 10 ⁶ t
TOTAL POSSIBLE ORE = 28.14 x 10 ⁶ tonnes		