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Province of British Columbia

Ministry of Energy, Mines and Petroleum Resources
GEOLOGICAL SURVEY BRANCH

MEMORANDUM

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DATE: February 10, 1993 FILE: Myra Falls

TO: Managers, District Geologists

FROM: Tom Schroeter, Bob Lane

SUBJECT: **MEG Notes "Geology and Exploration of the Battle-Gap Massive Sulphide Lenses"**

Speaker: Georgina Price
Introduction: Harlan Meade
Thanks: Tom Schroeter

Note: Brief **update** notes (i.e. since Roundup '93 talk)

- 330 m NW **right** lateral offset of Battle-Gap lenses from HW ore body (along the Schaft Fault)

- 330 m NE **left** lateral offset between the HW main lens and the Trumpeter zone. Also 100 m of dip-slip

- **Battle Lens**:
  - 750 x 30 x 250 m (dip) in size
  - correlative to HW Main Lens trend
  - exploration drill spacing @ 16 m centres; definition drill spacing @ 10 to 15 m centres
  - chert in hanging wall
  - facies changes at margin sof basins equals multiplicity of lenses (basin slumping/thrusting)
  - Battle lens cut off at south end by fault

- **Gap Lens**:
  - 200 x 30 x 60 m in dimension
  - correlative to HW North Lens trend
  - lies stratigraphically above Battle Lens - suspected to be a **distal** facies of the Battle Lens
  - 'Hub' of 60 m thick section of VMS
  - some VMS mineralization caught up in fault slices
  - very complex ore mineralogy (i.e. sphalerite, galena, barite [locally > 30%], pyrite, tennantite, chalcocite, bornite and visible electrum)
  - currently 10 ddh into Gap Lens

NEW 1993 (4th quarter of '92) RESERVES:

Gap Lens: 1.15M tonnes @ 2.9 g/t Au, 175.5 g/t Ag, 2.1% Cu, 1.2% Pb, 13.9% Zn

Battle Lens: 3.7M tonnes @ 1.2 g/t Au, 24.5 g/t Ag, 2.7% Cu, 0.5% Pb, 12.9% Zn

- Historical Production = 13.5M tonnes
  Reserves to Jan. '93 = 15.5M tonnes
  Total = 29M tonnes (and building!); truly a world class deposit

- **Exploration costs** est. @ $1.50/tonne of ore; cost of $750 per metre for driving 8 x 8 ft. exploration drift (over 2 km long); Total Battle-Gap exploration costs to date are approx. $6 million

- **Value of ore** = $100/tonne

- **Potential:** Trumpeter zone plus several others

- **Questions:**

  1) Any correlation between high Au and high Ba? - "perhaps in Battle-Gap lenses, but not enough data in other areas"

  2) Any relationship betwen linear troughs and growth faults? - "tough to see" (due to structural disruptions)