



826272
92C/16E

Imperial Metals - Haslam Creek Area.

Helicopter Input Survey - MK VI

- flown July 10, 1992
- 42 line Km.
- terrain clearance 122 M.
- EM bird 45 M. above ground.
- line spacing 150 metres with E-W lines
- used horizontal axis coil not best situation for maximum coupling of flat conductor. used vertical loop as well - much better response indicates flat lying conductor.

Survey - located 26 Km south of Nanaimo
15 Km north of village of Lake Cowichan.

Zone #1 - located in central east portion of grid. Anomaly previously located by Esso by ground geophysics and apparently not drilled.

- 400 M. long
- fair - good conductivity
- subtle 4-6 γ mag. feature.
- stagger of channel peaks (or skew) is to the west - suggest a dip of 30-60°.

Zones #4, 5 & 6 - exceptionally good conductivity but have little or no magnetic correlation.

- zone #6 thought to be dipping at 30-50° west.
- it is possible the strike may be E-W rather than NE-SW as shown on map.
- possible source of all 3 zones may be graphite, however the conductance values are quite high, usually only associated with MS.

Haslem Input Cont'd:

Mark VI INPUT

Sonotek P.M.H. 5010 Proton Mag. 18 sensitivity

Horizontal Coil

Zone #1 2-3 lines

3-4 channel decay classification

$\sigma t = 7$ siemens

Zone #4 3 lines (cut-off by gabbro to the south)

5 channel decay interval classification

$\sigma t = 14-60$ siemens

Zone #5 3 lines (cut-off by gabbro to the south)

5-6 channel decay interval classification

$\sigma t = 35$ siemens

Zone #6 3 lines (cut-off by gabbro to the south)

6 channel decay interval classification

$\sigma t = 37$ siemens

Vertical Coil - extended a couple of lines north.

Zone #1 2 line, 5 channels, σt 8 siemens

Zone #4 2 lines, 6 channels, σt 40 siemens

Zone #5 4 lines, 6 channels, σt 70-80 siemens extends north off grid.

Zone #6 4 lines, 6 channels, σt 50-60 siemens extends north off grid.

Soil Geochem

- ran lines along roads over conductor zones
- sampled "B" horizon
- analysed for Cu, Zn, Ag, Au.

- (A) Line H1 - across north coverage of anomaly A₄ 5, +6.
- B horizon soil samples @
 - Zone #6 Zn 128 - 206 PPM
 - Cu 130 - 320 PPM
 - Zone #5 Zn - west side - 102 - 256
 - Cu 120 - 320 PPM
- } in "background" of 50-80 PPM.

Ag up to 3.0 PPM is background 1.0 - 1.4

Au 10 - 20 PPB is background 5

N.B. Tends to be on west side of anomaly #5

- (B) Line H2 + H3 - across Zone #1
- H2 { Zn 130 - 260 in background of 55 - 89
- Cu 120 - 220 in " " 76 - 85
- Ag 1.1 - 1.9 in " " 0.1 - 0.2
- Au 10 PPB in " " 5

N.B. Tends to be on west side.

- (C) Line #4 - across south part of zones 5 + 6 and other zones.
- Zn: 128 - 178 in background 40 - 60 corresponds to #5.
- Cu: 105 - 248 in " 30 - 90 " " "
- Au: 10 - 30 in " 5 PPB " " "

- (D) Soil geochem. is +ve correlation with zone #5 + #1.

IMPERIAL METALS

Nov. 8/82

HASLAM CREEK AREA NTS 92 C

Stephen Quinn

- TOPO MAP 92 C/16
- Haslam Creek in NE corner.

CLAIM BLOCKS

- Imperial H, IMP J, K, M, S, ~~R~~ L. } claim maps req'd.
- Crown Zellerbach owns surface rights. }

PROPOSED DEAL

Imperial spent \$50,000⁰⁰

- looking for 40% working interest.
- like to be operator. - completely open on this point.

GEOPHYSICS

SOIL GEOCHEM.

GEOLOGY

- Pyritic cherts dip at 15° NW.
- Argillites underly the chert.
- No exposure of overlying strata
- Area complicated by large gabbroic intrusions.
- Limited mapping scale

HISTORY

- compiled data on all available info. on Vancouver Island.
- Esso did ground geophysics in the area, recommended drilling. To Imperial's knowledge no drilling done. is Imperial interested.
- Flew Helicopter Input - new anomalies located in addition to old anomaly. Did some limited geology, soil geochem lines.