

SHERIDAN 1962 - 800/2400 E.M. Survey

Map No 1 - Magnetophone E.M. Survey, J.P. Sheridan, June/62 -

E.M. @ 800 c.p.s. & 2400 c.p.s. - Reveals 2 marked anomalies on Harding (No. 3 zone) & Rainstorm (No. 5 zone) claims. The Rainstorm shows the stronger phase-amplit. ratios.

Note horizontal loop equip. (rel. lower depth penetr.).

* On basis that $r \geq 0.8$ rep. a good conductor, $r = 0.5 - 0.8$ a moderate conductor & less than 0.5 a fair conductor then all conductors are in fair-to-weak category. Sheridan evaluates all as extremely poor conductors.

Summary: Above explains rel. neg. results of 1970 Turam survey (400 & 800 c.p.s.) and indicates need for future I.P. coverage (highly resistivity parameters).

* Delete plots - as they correspond to known ore zones.

Note no response over Whistler l.g. claim, except an indication that a conductor zone is being approached on the most southerly line @ approx. 300' from (N. of) the south body of the Whistler claim.

Map No 2

Indic a pair of weak conductors crossing east $\frac{1}{3}$ of Bob 2-4 boundary (these to east of main group).

Extracts From Scope Report, 1962

History

✓ Claims first stated by J.G. McVicar & J. Brown in 1923
✓ Britannia M & S Co. optioned in 1925 & 1928 & did drill at each year.
1929-36; only enough work done to fulfil assess require
due to low price of copper.

1946 - Property obtained by Surf Inlet, who carried
on prospecting and did a consid. amt. of d.d.
in 1950

1951-52. — ?

1953-55. Again optioned to Brit M & S, who did
considerable drill, trenching, geol. mapping, etc each
year 1953-54-55.

To & incl 1955 Total des drill

72 holes for total 21,194 ft. Most of holes drilled
on North Harding, South Harding, Rain town, Whistler,
& Lily showings from 1953-55 incl.

Descriptions of Prev. Work in:

W.M. Brewer 9mm 1925

G.A. Clavier 9mm. 1928, 29, 30 - (B.S.)

B.T. O'Grady 1937 part F 9mm. - (O.K.)

Prev reports by

Dr. V. Delmage

(D. Davidson for Surf Inlet.) also Mem. 158. by H.F. James

GEOLOGY

^{Scope}
^{report}
¹⁹⁶² Britannia mine in reef pendant 3-4 x ± 10 mi (Cu-Au)
In McVicar are similar greenstones & agglomerates; loc. these
intr. by lamprophyre & numerous large, sometimes cherty felsite
dykes. but the dacite & latite sills (?) which
parallel (?) the Britannia ore bodies are absent. also
slates are rare (?). A large lenticular body of
coarse agglom. has been found on the Bob No 1 &
Newday claims & is similar to the agglomerates of
the Upper Coast intr. formation of the Brit. area.

Scope Report 1962 - cont'd.

- Several sites of med. to agr. qtz di found along Centa Creek north of the wide zone of agglom on the upper part of Rock Creek (under bottoming on root zone of roof pendant)
- Most of "greenstone" sheared to a chlor-ser. schist, having a mottled appearance. In places where shearing has been most intense (this occurs) a quartz-sericite schist which usually carries consid. py & varying amts. of Cu, Zn, & Pb sulphides across narrow widths. The siltst, North Harding, Wheeler, & Lily zone rocks (schists & tuffs) have been silicified to varying degrees.

Structure of mineral showings:

Gen strike N to N15°W & dip steeply westward (In the Lily showing the strikes & dips are 'reversed' (not enough evidence for this statement))

Small local folds occur locally;

Sulphide lenses occur mainly in tuffs along felsitic dykes or near silicified areas. Dykes usually conformable. appor. small folds → loc. struct. control for sulph. deposition.

Conclusions

Geochem. soil sampling done on area covering 2 electrolytic rooms on lines 60-5 & 63-5 in H.E. Box 2, & S.E. Box 4

Results indicate the presence of an interesting Cu-Zn anomaly which coincides with the geochem. anomaly.

* While the showings are numerous & occur over a wide area, results to date do not indicate favourable cond'n's for finding a major break in the immediate area of the orig. showings.

* Earlier sampling not too carefully done (B.S.!).

* Ore lenses mostly small & discontinuous.

U.S. feels present surface showings rep zone of upward branching (diverging) shear strands - peripheral zone of post-silic. by Zn-Pb-py mineral.

Recommendations: Do explor in on a regional-scale

- Deep drilling under better sects.

- No further shallow drilling

Note: No recommends re I.P. - poss. not familiar / fourth

David H. Fountain / Slope-5262

Cu-Zn sampling lines 605 & 635 - 34+12 samples.
@ 10'-20' intervals - (crazy in 10'-20' overburden!)

* Samples taken @ 3.5' - 4' depths (C-zone profile?)

Normal Cu @ 35-70 ppm; normal Zn @ 150-300 ppm.

Notes ≥ 300 ppm Cu signif. in ashcroft areas.

Explains lower concns at m. vicar by reason of steep slopes + heavy precipitation \rightarrow dilution.

* Notes tendency for Zn build-up in soils + vege.

where there is an abundance of clay minerals -

(adsorption effect). Notes most samples of high clay content.