

## Endako Mine.

Location: 2 1/2 miles N of François Lake, 4 miles W of its E end. 5 m. SW of Endako station on CNR  
Size of orebody: 5000' WNW  $\times$  600' (aver).

115 miles W of P. George.

Locally thin<sup>d</sup> to 1000' depth (depth drilling), but generally the overall thickness about 650' (Rutherford & Co. A.)

Surface elevation about 3500'.

History: Hill stage 1926 - .

1962-4 surface drilling totalled over 80,000 ft (82,377') in 190 holes.

(1964 drilling 19 holes totalling 7,329'). Northern delineation of main area accomp<sup>d</sup> by DDS.  
Moly float across much of the body, in general locally distinct.

Bulk sampling from a few holes was required to confirm the grade, which is stated as 0.21% MoS<sub>2</sub>. (0.14% Mo)

Mt. One reserves are stated as 66 million tons of 0.21% MoS<sub>2</sub> (allowing for mining dil.)

Waste: ore ratio about 12:1.

Geology: In 1964 the orebody was prepared for mining by open pit, plant was partly erected & ground scheduled to start at 10,000 tpd in mid-1965. The W<sup>n</sup> part of the orebody will first be mined, the pit said to be 1500' long & 1000' wide, with working benches 30' in height.

Geology. Most rock is m-grd somewhat pyritic red G belonging to the Toppy Anticlinis, which extended for about 120 miles NW & were pretty covered by later rocks. The Sedge of the G is at François Lake, about 2 1/2 m S of the mine.

At the mine the G is intersected by narrow NW<sup>Y</sup> trends of quartz-P & pyrolytic P & by sulphide strings, which may trend. Lepidophyllite dykes are post-metamorphic mineralized & occur in gassy faults, which are numerous.

The met. veins occur as moly, pyrite & locally magnetite. Gp is very rare. Sulphides amount to only 1% of the orebody. They are mainly near Qz veins which are up to 5' wide (ca N65-80E/55-65SE) & intersect with an frequency as numerous as 1/8". Many of the Qz veins strike NE-NNE & dip SE though others follow different directions. Some of the wider veins can be followed for 100 feet or more along their strike; they are thinner & irregular in the dykes, & are locally offset a few feet by small faults, one of which is pyritized & slightly copper-stained.

Pyrite. The qz veins are dark with moly, which is mostly fine-grained but is locally coarse on the vein walls. Pyrite is mostly disseminated in the met. rocks adjoining the veins, & also occurs fracturing qz & moly. Pyrite extends strongly W of the orebody, occupied by some Q & only minor amounts of moly.

The rocks are strongly fractured, & the Qz veins <sup>places</sup> are disrupted ~~but~~ & torn to pieces.

The host-rocks looks fresh but this is deceptive as the OR of the rock is partly 2nd & was reactivated about the time shortly after fracturing took place, probably before mineralization occurred.

Alter<sup>n</sup> in the G includes sericite, kaolinite, silicate, chlorite & kaolinite. Many of the fs have moved late, & kaolinite is apparently associated with this phase of post-mineral deform<sup>n</sup>.

Minimally the strike of the orebody (WSW) differs from the strike of most of the veins because of post-mineral offsetting right-lateral. (!)

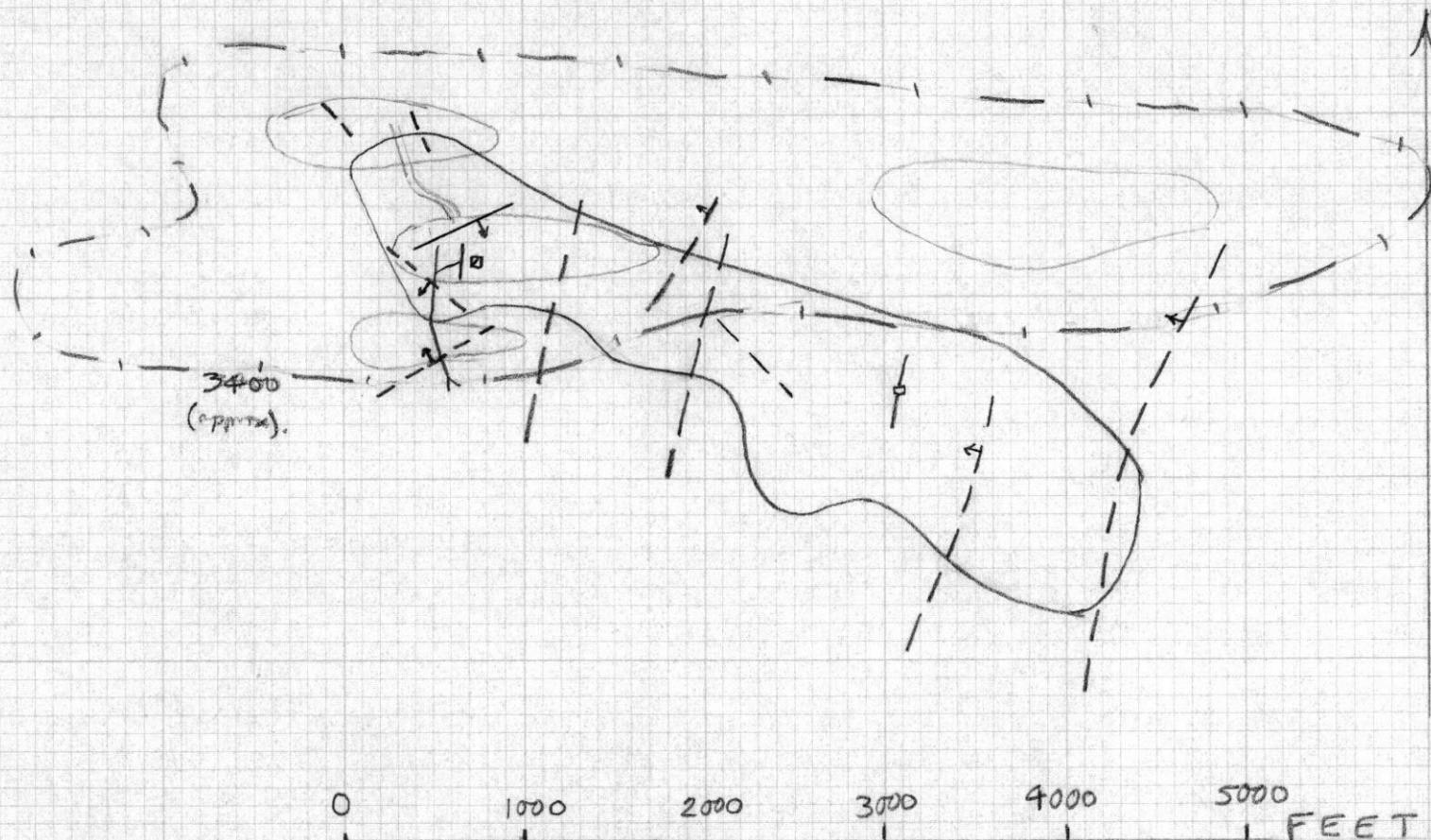
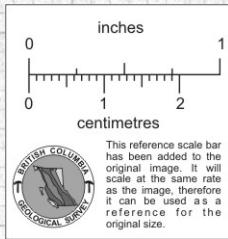
Mineralization  
Second stage of Q, pyrite zone is often strongly & often before it. Py later than moly.

## Maps & Air Photos

- 1) Spartan 1964 (Dominion) 30,000' photos (1:50,000 approx.) south of  $54^{\circ}N$  only (ordered)  
— if localities re-plotted to these they can be given 3-cond. position by Topo. Div.  
 $(\pm \text{near} \pm 10')$ .
- 2) Get H.S. to write G.S. Andrews saying we are working in the area & would welcome a  
40-chain <sup>contoured</sup> map of the indexed area, w. especial ref. to the indexed areas. (This may  
speed the job along). Likewise for Babine Lake area.
- 3) McMyrn says radial line plotting not advisable if only about 6 localities per overlap area to  
be plotted — instead use radial-area protractor & punch the photo centres ~~over~~ the points  
to maps to fit a stand mounted on the Table (say, '8").
- 4) Transfer 20-chain plot centres (plus any extra detail) from the 20-chain Forest Cover  
"topographic" sheets to the 40-chain inter-area antipositions, using lat-long cords (7' sheet  
corners) on Map-o-graph.
- 5) Forest Cover Map Sales (Mr Harris; Mr Lalonde): the forest cover "topogr." sheets  
(20- & 40-chain) differ from the Intern maps in having more forest road detail added; the  
base map used in their construction is generally the same. "We like to think ours are better maps."  
The Quesnel district ones will be ready in 4 to 6 weeks — order 20-chain grid points then (for photo-area  
transfer). Order (later) 20-chain Forest Cover sheets 93F/13 (land) }  
93F/14 (all sheets) }  
[93F/13 and 14 are the only part of the area  
within the Quesnel district (new plan area).]

Antipositions reduced  
at 40-chain. — Harris will  
inform me when available.

See Memos. to Andrews, Feb '65 & Harris, March 19 '65.



overlays # 73019.