

May 21/85

ENGINEERNotes from Geoscience Forum (Dec. '77)

- by Tony Hinderman - USGS (Anchorage)
- Valdez Gold deposit associated with greywacke + slate (similar to Engineer)
 - ie. silica sweated out of black shales + re-deposited in greywacke.

Hudson Bay Lodge

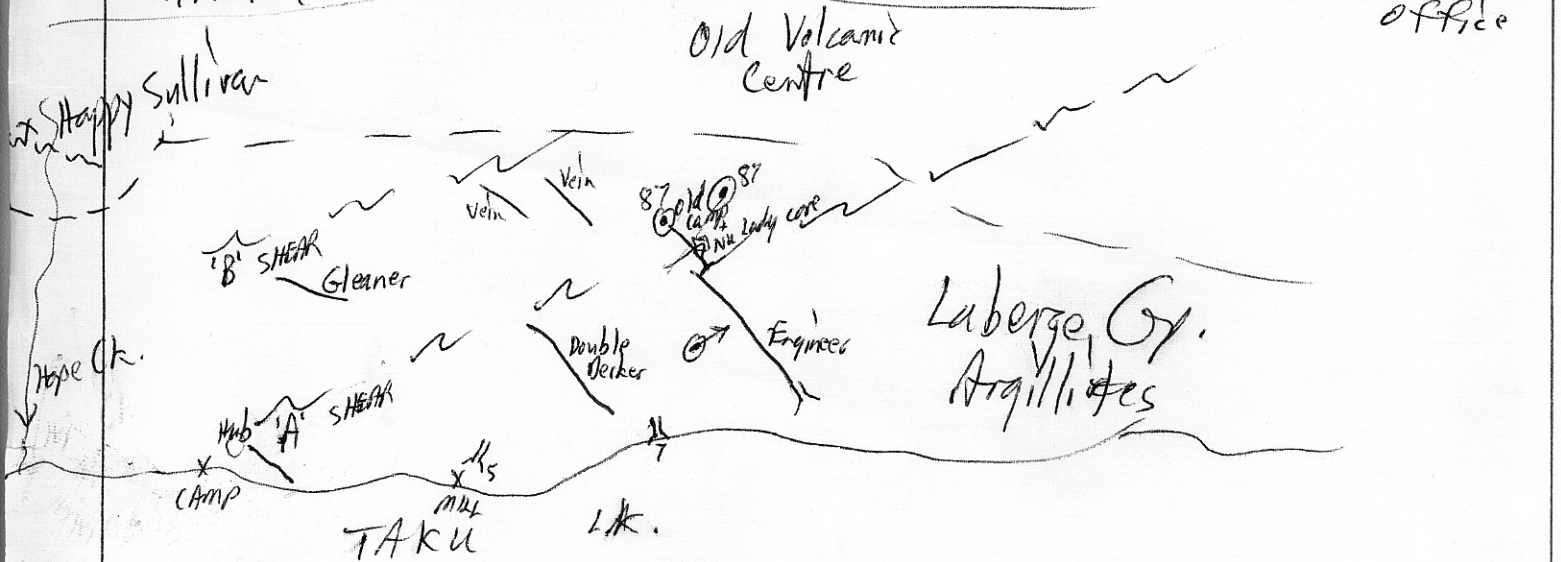
3251 E. Highway 16, P.O. Box 3636
Smithers, B.C. V0J 2N0
Phone (604) 847-4581

ENGINEER - Hans Smit

Mar. 14/88

- drilled 7 holes late in '87

(Smithers)
- Total Erickson
office



- excellent soil geochem - esp. arsenic
- VLF-EM + airborne mag worked well in outlining structure.
- fixed up old Pat Burns store = new 'office'
(should preserve as his tonic site!)
- Drilling - had trouble in 'A' Shear
 - did not hit qtz vein at depth on main Engineer vein
(function of erratic high grade shoots).
- Jim + Marion Brooks still have old reports + maps
- dealing with prospector - Wann Cr. (from Whitehorse)
- 1988 Plans: More geochem + geophysics

(7)

ENGINEER

History: Disc. - 1899 ; Nu-Energy - 1975

Geology: 25 veins in shear zones within Jura-Cd. finely textured gnlcs, sh, sl. of Laberge series.

- invaded by dykes of ands. + gr. por.

- gts. veins (+ "hubs") ^{up to} 200 ft. wide x 300 ft. long.

Mineralization: - py most common

- rare cpy + allanite (sb-as)

- native Au assoc. with dk. green chloritic material.

- 2 periods of min. - i) assoc. with dk. green matter. ii) late-movement re-opened veins frac + cemented.

- ore does not occur in hubs - rather in radiating veins.

Production: - spectacular grades!

- operation failed in 1971

- mined to 8 levels - well!

- Nu-Energy spent \$180,000 in 1975 - dewatering + supp.

mainly "F" + Double Decker

~ \$3 million

[2,932,000 Au
40,866 Ag]

@ 4.60 Au
4.50 Ag

Reserves: ? at depth? eg. 7 + 8 levels.

1925 - company's stock reach > \$100/share in New York.

[+ Happy Sullivan - Nomad Mines.]

Engineer Gold Mine Samples

Nov. 17/75

- | <u>Sam. No.</u> | <u>Description</u> |
|-----------------|--|
| <u>Eng. 1</u> | <u>fn. gr. meta-congl.</u> Frags. of shale (argillite) plus
qtz. Minor dissem. <u>pyrrhotite</u> in some frags. |
| <u>Eng. 2</u> | 507 X-cut possibly similar to Eng. - 1
but fsp. Xls are completely alt'd to clay. Minor
dissem. sulphide (py). |
| <u>Eng. 3</u> | Qtz. (grey) with argillite frags. Iron staining
due to very fn. gr. dissem. py. |
| <u>Eng. 4</u> | Chalcopyrite & tetrahedrite 'dissem.' in qtz. gangue
[Float at dock] — possibly from August
probably from Erickson Gold! |
| <u>Eng. 5</u> | brecciated silica rich rock with angular
frags. of argillite. Minor dissem. py. <u>Cockade</u>
<u>qtz. + green mariposite</u> (supposedly related to 'ore'). |