

## HIGH, LINER

28 AUG 1983

Partner: Wayne Hewgill  
 Weather: Cloudy / Sunny

Work: - Traverse across cliffs on Liner claims heading SW. Wayne continued a soil line (50m spacing) while I prospected and roughly mapped the geology.

Geology - More quartz veins sim. to JA3T1-292 were sampled, but had a limited width (15-30cm) and were not traceable over a great distance (25m).

- ~~At~~ Near the end of the traverse a chert bed bounded by carbonaceous shale was sampled, with young dikes crosscutting it. Cherty unit was ~ 5m thick and traceable on each side of the gully ~ 15m.

(SEE NOTES AND HIGHLINER MAP)

-SAMPLES UNDER WH-CODE

TOTAL SAMPLES: 0

HIGHLINER / TAN GP

10 SEPT 1983

Partner = Godfrey Walton  
Weather : Sunny / Cloudy

Work: Spent  $\frac{1}{2}$  day on Highliner, showing Godfrey the mineralized qtz veins, large dikes, and soil line locations.

- Other  $\frac{1}{2}$  day was spent on the ridge top of Tan. Tried to cover as much ground and geology as possible, and point out possible structures.

TOTAL SAMPLES: 2 ROCK SAMPLES  
(HIGHLINER)

## HIGHLINER GROUP - REPORT

14<sup>th</sup> Sept  
1983

UNITS: 35

**GEOLOGY:** The Highliner Group encompasses a section of a large ridge, and its slopes. The claim is made up of greenstone and phyllites of the stikine assemblage. The orientation of the package, appears to be consistent as seen in the field ~~and from the helicopter~~.  
Strike 120 to 128 Dip 35 to 55 W  
This produces rugged SE slopes and more even NW slopes.

Cutting the greenstone and phyllites are a number of rhyolite(?) dikes, with a characteristic light brown to H orange weathering. The dike strike  $340^{\circ}$  to  $355^{\circ}$  and dip  $40^{\circ}$  to  $60^{\circ}$ , to the NE. Widths vary from .5 to 5.0 m, these widths includes layers/zones of quartz-carbonate alteration, and brecciation. Quartz-carbonate alteration seems to parallel the dike trend.

(Dikes could alter the greenstone country rock somewhat, giving a larger apparent dike thickness.)

These dikes have been rock sampled in at least 3 locations, and soil lines should pick-up any anomalies produced by these dikes.

Also cutting the stikine rocks are some small quartz veins. The quartz is clear to white silica, filling fractures orientated at  $340^{\circ}/90^{\circ}$  (roughly), and  $190^{\circ}/74^{\circ}$  W (roughly). Mineralization in the veins includes;

- fine grained sulphides/pyrite - up to 3%
- chalcopyrite - up to 1%
- silvery pyrite - up to 1%

→ Alteration of the veins includes;

- limonite fracture coatings
- jarosite staining
- trace of malachite and azurite
- chalcantite(?) and melanterite crystals.

Widths of the veins vary from 10 cm to a max. of 40 cm. These can be followed up to 30 m, along strike.

OTHER GEOLOGY: - Standing out on the photo, and on the hillside is a white-light brown tufa spring coating and cementing greenstone. (SE part of claim)

- Also in the SE area of the claim is a large (5 m) ribbon chert bed, exposed in a gully. The chert is in contact with a carbonaceous shale on top and bottom, and is cut by small lt. green dikes. The chert was sampled in two locations, and a soil was taken below the bed.

- In the same gully (of the chert bed), boulders of a <sup>fresh</sup> feldspar porphyry (phenocrysts up to 2.5 cm) exist but the outcrop was not found.

WORK COMPLETED: - 2 detailed soil contour lines on the NW side of the ridge (50 m spacing)

- 1 detailed soil line on the SE side
- 2 days prospecting and mapping the SE side of the ridge, at the base of the outcrop.

POTENTIAL &  
FURTHER WORK  
IDEAS

: From two days of prospecting in quite a limited area due to the ruggedness of the terrain, a number of encouraging veins and outcrops were located. Although the best <sup>working</sup> mineralization was over quite narrow widths, the possibility of something larger with similar mineralization is very likely.

In order to cover the claim to its fullest, traverses up the gullys (E-W), and spot landings with the helicopter on/in rusty areas might help locate gold-bearing rock.

GEOCHEMICAL

RESULTS: NO RESULTS BACK AS OF SEPT 14/83

# HIGHLINER

27 AUG 1983

PARTNER: J. ARMSTRONG  
WEATHER: OVERCAST

WORK: PROSPECTING S. SLOPES OF CLAM NEAR JASTI-192 (QUARTZ VEIN & COPPER SULPHATE MINERAL). TRAVERSED NW UNDER CLIFFS MAINLY, HIKING/PROSPECTING UP SHOOTS AND GULLYS WHERE POSSIBLE. ENDED TRAVERSE AT BASE/FLAT AREA BELOW CLIFFS, \* STILL NEEDS PROSPECTING. SEE JAJ NOTES ON ROCKS, AND SKETCHES.

- GEOLOGY: Included a package of layered tuffs, grst, Aug  $\phi$  - cut by Rhyolitic dykes, diorite dikes, and small (~30cm) Qtz veins. See notes for orientations and descriptions.

TOTAL SAMPLES: 0