

"BABINE PORPHYRIES" - Peter Ogruzlo May 1/94

"Por. Cu-Au Dep. in a Gent'l Magmatic Arc"

- Newman fault appears to be same (offset) fault as Morrison Fault
- extensional, uplift tectonics (à la Interior Plateau)

Barr Is = eroded volc. spire (vertical) - Babine Lk. ~ 500M deep.

- discussion on alkaline / calc-alkaline comp. (very close to 'border') - used Zr + Nb geochem.

- "explosion bx" obliterated SE part of min. por. → waste later 'backfilled' by barren QFP.
- Noranda drilled below QFP + intersected remainder of Bell orebody.

300m^{depth} high level emplacement of Bell.

several km - emplacement of Granite

BRECCIAS - 'hydrothermal stamping' (Billitoe) - ag. Bell
- cement incl. chalcidony

HEARNE HILL : - Morrison orebody - dismembered by Morrison Fault. (i.e. lacks sericite halo à la Bell)

Feb. 16/72

BABINE AREA

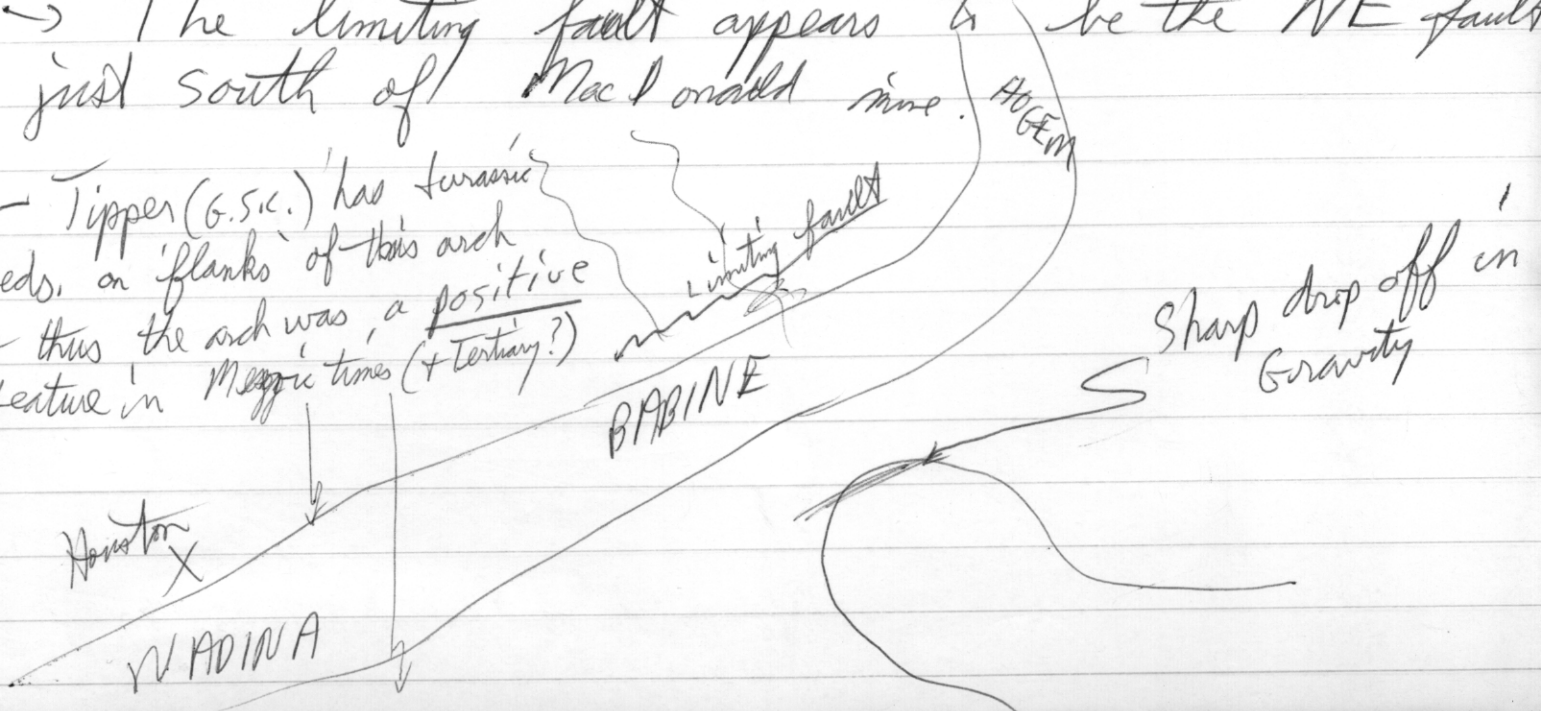
Nick Carter

- AMAX did a geom. geochem. survey strip north from the 'Perrow' road up towards Fulton Lake (thru Lennac Lt.)
→ good anomaly (u/mo) around Lennac Lt.
∴ test this yr.

Areas marked 'Topley' on map are dated at ~171 my *
→ new gravity map (Stacey - GAD) suggest Topley rx. end up near Burns Lt. & that the granitic rx. in the Babine south area, are actually part of the Skeena Arch running up the Houston area thru Babine (SE) & joining up with the Cominca (Hogen)

→ The limiting fault appears to be the NE fault just south of Macdonald mine.

- Tipper (G.S.C.) has Jurassic sed. on 'flanks' of this arch & thus the arch was a positive feature in Mesozoic times (+Tertiary?)



- Nick - rk. geochem. around entire island (~ $\frac{1}{2}$ mile of all rk. types.

- aeromagn + gravity fault (N-S) thru Chapman Lk.

→ Prospects in the volcs. + sed. don't appear too sig. → "probably represent flow tops"

The porphyries + dykes in the Gramile district are distinct.

The thing to note is that the intrusives are 'much' younger than the volc. + sed. they intrude (i.e. Tertiary - Jurassic)

- The extrusive equivalents of the Tertiary stocks + dykes are barren!

→ A crew from the G.S.C. will be working out of SABINE

→ Nick has no feeling + expresses doubt about volcanic stratigraphy being important here.

Obreich at Geophys. Dep't - U.B.C. - does FILTERING