

SPUR

Aug. 5/77

On Aug. 5th I was given a tour of Inco's Spur property by Marc Bidluck, geologist in charge. (helicopter ferry compliments of Inco + Cities Service) The camp is situated in a little saddle on top of Tsayut Spur (Bear Lk.). The property is underlain by a sequence of easterly dipping ^(intercalated ands-bst and volcanic) Takla Group (?) volcanic units. Mineralization occurs mainly within ^{or near} a contact zone of a basic lava flow and a volcanoclastic series of units and consists of chalcocite, bornite, chalcopyrite, and malachite-azurite in fracture fillings, irregular vein systems and possibly along bedding planes. Mineralization further appears to be controlled by a major NNE fault and a series of numerous crosscutting faults.

The east flank of the ridge is a dip-slope (30° - 35° east). The major fault zone which transects the property on the ridge top in a NNE direction forms a prominent gulch.

LAVAS

Two main types exist:

(1) grey, extremely amygdular

(2) massive, reddish, essentially non-amygdular with

phenox of variably hematized plag. with/without pyrox.

(Olivine apparently has been identified - pers. comm.).

Discontinuous septa ^{or fragments} of volcanoclastics occur in areas of amygdular lava and impart a "balls" texture (see photo).

Frank Pustkas has identified so-called "feeders" and "centres" of doming in lavas.

VOLCANICLASTICS

- exhibits extreme colour variation from buff brown to brick red. Composition ranges from conglomerate, sandstone, siltstone.

Features recognized ~~to~~ in volcaniclastics (F.A.)

- (i) bed disruption and/or truncation in vicinity of lava domes
- (ii) grading in individual beds
- (iii) channelling
- (iv) load casts
- (v) convolute bedding
- (vi) cross-bedding

The contact zone between volcanics - volcaniclastics is well exposed (see photo).

Pyrite is conspicuously absent! ~~May total sulphide~~

- Feeder complex on Pustkas' map looks like a dk. green crse. gr. andesite-diorite. It is strongly magnetic.

- Chilling^(in volc. top) of contact zone between overlying volcaniclastics & underlying andesite flow. - mod. to strongly magnetic!

- High grade bn-cpy-chalcoite dissem. in "balled" grey andesite.

- High grade veining (fracs.) of bn-cpy in volcaniclastics.

- A dyke or sill (12 ft wide) of brecciated rk. with frags. of volcaniclastics & volc. (?) cemented in an orange-pink matrix - X-ray!
- containing bn & cpy in matrix.

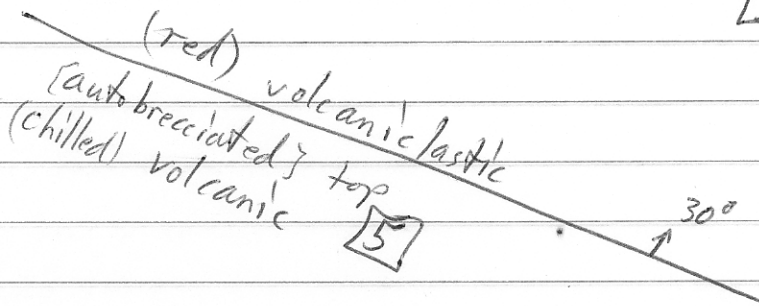
- Digenite has been recognized under microscope.
- what is Ag content? (secret!)
- significance of "balling" bedding in volcaniclastics.
- Bedding $010^\circ/25^\circ E$

-I.P. continuing in Aug-Sept.

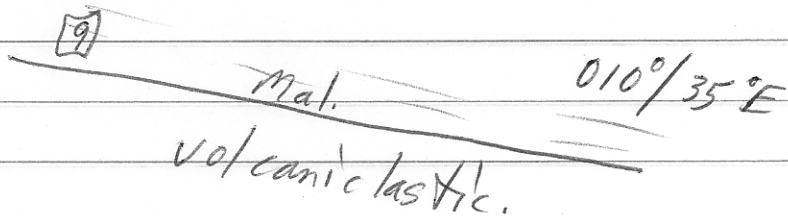
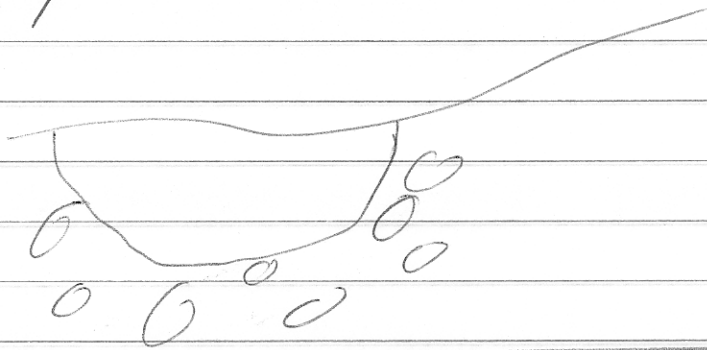
Core is stored in Inco warehouse (Smithers)

Pictures Taken

[5] sample no.



"Balling"



	Felsitic
Hematized (metagabbro)	Volcaniclastic
Att'd. $sp-pg$ dyke	
Amy. ands-bstt	
	Volcaniclastic.