

**J. TUACH GEOLOGICAL CONSULTANTS, INC.
DIAMOND DRILL CORE LOG**

Sheet No. 1

LATITUDE _____	Tests	Dip	Magnetic	Corrected	Project No. <u>G-4806</u>	Hole No. <u>2842</u>
DEPARTURE <u>12.992.5E</u> <u>14.992N</u>	Depth		Bearing	Bearing	Property <u>Buchans - Airport Property</u>	
ELEVATION <u>-90°</u>	_____	_____	_____	_____	NTS <u>12A/15</u>	Grid Name <u>Mine Grid</u>
DIP AT COLLAR _____	_____	_____	_____	_____	Date started <u>1971</u>	Completed _____
BEARING _____	_____	_____	_____	_____	Contractor _____	
TOTAL DEPTH <u>1464'</u> CORE SIZE <u>Ax 89 - 1464'</u>	_____	_____	_____	_____		
REMARKS _____	_____	_____	_____	_____	Logged by <u>J. Harris (1997)</u>	

Depth & Lithology	Description	Alteration	Mineralization
0 - 74'	Overburden		
74 - 89'	No Core		
89 - 425'	Mafic volcanic - to intermediate - tuffs - interbanded - green colour - light to medium - porphyritic with altered plagioclase phenos. - foliated at 60 - 70° to the core, but some folding - 105 - 109' - occasional quartz grains, also local pink k-spar crystals - plagioclase less altered below - mafic dyke 100.5 - 105' pale green very fine grained - locally fragmental - some fragments of silicified and pyritic rock from 155 - 160' - 200 - ~ 215' coarser fragmental - agglomerate, mainly amygdoidal mafic volcanic clasts - bleached and altered - grainy almost sedimentary look locally - felsic zones more common below 290' - 360 - 425' lighter grey colour strongly foliated	weak to moderate chloritic and sericitic alteration silicified felsic units 294 - 301, 305 - 308, 322 - 327 interbanded 333 - 355	py. generally ≤ 1% but locally more i.e. 156 - 157' 2 - 3% pyrite with silicification in more felsic units.
425 - 502'	Felsic volcanic - Dacite - Rhyolite - pale pink to buff colour - tiny altered waxy plagioclase and a few quartz and chlorite phenos. in an aphanitic groundmass - locally fragmental - clasts of same unit in a similar groundmass - maybe welded tuff - becomes gradationally sheared and foliated over lower 2 - 3' - following unit maybe sheared equivalent in part	Plagioclase altered to sericite - some sericitic and chloritic alteration along fractures	minor disseminated pyrite - one small pyritic, silicified clast @ 425.5'

HOLE NO. 2842

J. TUACH GEOLOGICAL CONSULTANTS, INC.
DIAMOND DRILL CORE LOG

Sheet No. 2

Depth & Lithology	Description	Alteration	Mineralization
502 - 828'	Felsic and intermediate tuffs with some mafic interbands - light grey to buff and locally green - moderately foliated at around 60° to the core but locally 25 - 30° i.e. 534 - 540' - local quartz and quartz-carbonate veining - 544 - 588' - mainly intermediate to mafic - 565 - 733' - porphyritic and mainly intermediate - waxy altered and flattened - locally fragmental, flattened lithic or pumice fragments locally - 616 - 625 - mafic volcanic - 681 - 695 - flecked with epidote amygdules - 733 - 750 - fragmental with some pink felsic clasts - generally more felsic - dacitic below 733' - 754 - 824' - still fragmental but mainly buff dacite clasts - 802 - 802.5' - massive sulphide and breccia - cemented with white carbonate, fragments of sulphide and altered dacite	502 - 520 - strong quartz sericite alteration Some black chlorite associated with thin bands of pyrite Feldspars altered to sericite weak sericitic and chloritic alteration throughout starting at about 776' - patchy black chloritic alteration	pyrite 2 - 3% and locally to 5% as disseminations and discontinuous bands 573 - 589' - 5% plus pyrite 588 - 589' 20 - 30% py. with quartz Below 589' - fairly common thin ½" bands of massive to semi-massive pyrite py. - 3 - 5% disseminated and in massive to semi-massive bands 776 - 776.5' - 20% py. and ≈ 1% cpy. in bands 802 - 802.5' 30% py. and minor Pb-Zn and cpy. mainly in 2" massive sulphide band - possible barite 815 - 818' - 10 - 15% py. with some cpy. and maybe Pb-Zn, 4 - 5 small semi-massive bands
828 - 949.5'	Mafic volcanic - andesite - tuff - light to medium green - fine grained chloritic - locally fragmental - weak to moderately foliated @ ≈ 70 - 80° to the core - irregular carbonate veinlets throughout - 884 - 949.5' porphyritic with plagioclase and epidote grains	chloritic and locally sericitic alteration - weak lower 2' somewhat silicified	Pyrite 2 - 5% - 829 - 884' - mainly as discontinuous bands and "clasts" - some disseminated
949.5 - 961.5'	Rhyolite - pink to brown - porphyritic with altered plagioclase and some chlorite - lower contact sheared and strongly foliated at 80 - 85° to the core - 1 - 2" almost mylonitic	weak to moderate sericitic alteration	
961.5 - 1058.5'	Arkose - brownish to pink - fairly coarse - upper 10' sheared and veining with earthy red hematite - @ 984' - 1" shear with epidote - tuffaceous look locally	silica - epidote alteration locally fairly strong - flooding 1016 - 1026'	
1058.5 - 1141.5'	Mafic volcanic Sandy Lake Fm. - dark green - amygdoidal with calcite - also flooded with calcite		

HOLE NO. 2842

**J. TUACH GEOLOGICAL CONSULTANTS, INC.
DIAMOND DRILL CORE LOG**

Sheet No. 3

Depth & Lithology	Description	Alteration	Mineralization
1141.5 - 1205'	Felsic dyke - Feldspar porphyry - pale grey brown colour - 1141.5' - ≈ 1164' fairly coarse - below 1164' finer rhyolitic groundmass - abundant feldspar and a few chlorite phenos. - irregular intrusive contacts		
1205 - 1239'	Mafic volcanic, amygdoidal basalt, as for 1058.5 to 1141.5' - epidote flooded - possible shear 1231.5 - 1233' - some red jasper fragments below 1233'	contact could be at 1233' - sheared?	
1239 - 1249'	Mafic volcanic - basaltic breccia or agglomerate - angular and rounded clasts in a fine epidote rich groundmass - upper 5' red hematitized - lower 5' green		
1249 - 1439'	Mafic to intermediate volcanics - probably Ski Hill Fm. - dark to light green - massive to fragmental - occasional quartz amygdules - locally gritty - tuffaceous - 1326 - 1344' - light grey to pink - felsic looking - maybe alteration	commonly strong epidote alteration - sometimes with silicification	no apparent sulphides
	1439' - E.O.H. -		

HOLE NO. 2842

PROPERTY Buchans - Airport Property

[illegible]