

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

Sheet No. 1

LATITUDE _____	Tests Depth	Dip	Magnetic Bearing	Corrected Bearing	Project No. _____ Hole No. <u>2845</u>
DEPARTURE <u>15987.41N</u> <u>11999.64E</u>					Property <u>Buchans - Airport</u>
ELEVATION <u>3881.43</u>	_____	_____	_____	_____	NTS <u>12A/15</u> Grid Name <u>Mine Grid</u>
DIP AT COLLAR <u>-90°</u>	_____	_____	_____	_____	Date started <u>1971</u> Completed _____
BEARING _____	_____	_____	_____	_____	Contractor _____
TOTAL DEPTH <u>2462'</u> CORE SIZE <u>Ax</u>	_____	_____	_____	_____	_____
REMARKS <u>Notes on 2845</u>	_____	_____	_____	_____	Logged by <u>J. Harris (1996)</u>

Depth & Lithology	Description	Alteration	Mineralization
0 - 117' START AT 400'	Overburden		
400 - 580'	Strongly deformed mafic and intermediate volcanics - mainly light grey green colour - very well foliated with common kinked and contorted foliation - the foliation is also commonly disrupted by later movement - generally foliation is from 45 - 60° to the core - carbonate wisps and stringers throughout - altered plagioclase phenos. apparent locally - occasional large quartz phenos. - 564 - ≈ 570' - more felsic and foliation is commonly brecciated	moderate chloritic and sericitic alteration	zones with 1 - 3% disseminated Pyrite local disseminated hematite - previously logged Pb-Zn mineralization at 445 to 458' could not be located (core has been tipped over in this area)
580 - 968'	Felsic and intermediate volcanics (tuff) - pink and grey to grey green - often dacitic with chloritic, more mafic interbeds - often with quartz and/or feldspar phenos. - local zones of moderate to strong foliation, around 50° to core at 580 - 600', 70 - 80° to the core @ 680- 700', below 800' at 80 - 85° - locally resembles prominent quartz - but quartz phenos. are small	feldspars mostly altered to pale green sericite chloritic and sericitic alteration weak to moderate - local zones of moderate to strong silicification i.e. 670 - 672 - 720 - 730' -moderate black chloritic alteration	Py. ≈ 1% or less but locally 1 - 3% in silicified or chloritic zones 720 - 730' - to 5% Py. as conformable bands and as disseminations

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Depth & Lithology	Description	Alteration	Mineralization
580 - 968'	779 - 797' - mainly pink to maroon porphyritic rhyolite with some dacitic inclusions and grey green altered zones 797 - 816' - felsic - porphyritic quartz and feldspar (similar to prominent quartz) 816 - 872' - mainly grey green intermediate with elongated "flattened"? altered feldspar phenos. minor interbedded - more felsic zones @ 854' - small gouge 872 - 968' - mainly dacitic, locally with prominent quartz but with some more chloritic bands 878 - 905' - poor core recovery - with some obvious fault zones i.e. $\approx$ 902 - 905' 959 - 968' - pink to buff felsic quartz porphyry lower contact sheared at $\approx$ 50° to the core	700 - 720' - black chlorite wisps and bands and moderate silicification 873 - 925' - moderate to strong black chloritic alteration and zones of silicification Patchy silicification and chloritic alteration to 968'	700 - 720' - 2 - 4% py. @ 797 - 798' minor Pb-Zn in a carbonate vein @ 820' 2" vein of Pb-Zn, cpy. and calcite 873 - 925' - Py. 5 - 6% but locally as small semi-massive bands up to $\approx$ 1/2" 959 - 968' - 1 - 2% fine py. along stockwork alteration bands
968 - 981'	brownish weakly altered rhyolite dyke		
981 - 1044'	Prominent quartz felsic tuff grey green to pinkish 981 - 995' - interbedded chloritic and felsic units - well sheared - foliated @ 70 - 80° to the core 995 - $\approx$ 1020' - shattered look with epidote - silica hairline fracture infill 1040 - 1041' - fragmental looks like arkosic cong.	981 - 995' - chloritic and hematitic alteration 981 - 1028' - some local black chl. on fractures - weak sericitic and silicic alteration locally	
1044 - 2048'	Basalt - red and green - calcite filled amygdulites and calcite veins and fracture infill local - quartz veining - (looks like Sandy Lake Fm. vol.) locally fragmental	hematitized, locally chloritic banded - cherty quartz veins to silicification locally	
2048 - 2107'	Felsic tuffs to sediments reddish and pale grey green matrix looks tuffaceous large porphyritic rhyolite (maroon) 2048 - 2061' - also in local beds lower - locally resembles arkosic cong. large jasper clasts locally - bedding $\approx$ 60° to core somewhat gradational to next unit	hematitized locally	
2107 - 2146'	Similar to above but more mafic - often hematitized chips of mafic vol. in a finer matrix - more sedimentary than tuffaceous - related to Sandy Lake Arkose? conformable lower contact - not a great change	hematitized locally	

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Depth & Lithology	Description	Alteration	Mineralization
2146 - 2199'	Dacitic tuff - fragmental - @ 2173' 5 - 6" epidote silica cemented breccia - after upper 5 - 6' - mainly medium green - very much like Buchans River Fm. dacite tuffs seen in other holes - abundant Plagioclase phenos. and some quartz phenos. - some fragments are tuffaceous - commonly weakly magnetic	hematitized over upper 5-6' cut by epidote - silica veins and stringers 2154 - ≈ 2173	
2199 - 2245'	Fragmental - contact somewhat arbitrary - some felsic and mafic fragments in a granular - sedimentary matrix - locally bedded @ ≈ 60° to the core (very similar to 2048 - 2146') - fragments more commonly mafic over lower part		
2245 - 2462'	Mafic fragmental - Ski Hill - Thurlow - mainly angular to subrounded mafic fragments in a pale green fine grained matrix - mafic fragments vary - some are amygdoidal with silica and calcite infill - also chlorite - also quite a few fine, massive black fragments - occasional fragments which appear to be granitic - quite a few clasts of light grey siliceous rock with fine Py. up to about 20% - altered felsic volcanic or Pyritic siltstone (From Ski Hill Fm.??) (mafic and matrix similar to Ski Hill Fm. in H3346) - magnetic locally - E.O.H. -		

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