

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

Sheet No. 1

LATITUDE _____	Tests	Dip	Magnetic	Corrected	Project No. _____ Hole No. <u>1702</u>
DEPARTURE <u>10.687.61N 13.945.67E</u>	Depth		Bearing	Bearing	Property <u>Buchans - Middle Branch</u>
ELEVATION <u>2796.61</u>	_____	_____	_____	_____	NTS _____ Grid Name <u>Mine grid</u>
DIP AT COLLAR <u>-90°</u>	_____	_____	_____	_____	Date started <u>1958</u> Completed _____
BEARING _____	_____	_____	_____	_____	Contractor _____
TOTAL DEPTH <u>1633'</u> CORE SIZE <u>Ax/Ex</u>	_____	_____	_____	_____	_____
REMARKS _____	_____	_____	_____	_____	Logged by <u>J. Harris - 1996</u>

Depth & Lithology	Description	Alteration	Mineralization
0 - 61'	- Overburden		
Start Log @ 790 - 831'	- Dacite tuff - prominent quartz unit - Pale pink to green - Some faint feldspar grains, fragmental - with felsic volcanic clasts - mainly pink and grey porphyritic rhyolite - Mafic tuff or flow 815 - 818' and 828 - 831' - 828 - 831' - sheared and somewhat brecciated - ≈ 40% core recovery		
831 - 974'	- Arkosic conglomerate - Sandy Lake Fm. - Cobbles and pebbles of mainly felsic volcanic but some mafic, for the most part clast supported but locally supported by an arkosic matrix - Chilled mafic dyke contact along core 914 - 915' and a 1 - 2" dyke at 974' - Lower contact somewhat sheared	Locally cut by a stockwork of hematite stringers	
974 - 1075'	- Dacitic crystal tuff - with lithic fragments - Locally very similar to above conglomerate but with tuff matrix - More mafic volcanic fragments than above, probably gradational from cong. quartz and Plag. crystals - Occasional granitic fragments - Some beds of heterolithic conglomerate - tuffaceous matrix	Moderate sericitic alteration of matrix Local silicification as vein breccias	<1% dissem. Py. - Mainly in very local patches.
1075 - 1081'	- Fine grained grey - green sandstone (Wacke) - Bedded at ≈ 85° to core - one granite pebble		

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Depth & Lithology	Description	Alteration	Mineralization
1081 - 1117'	- Rhyolite breccia - pink porphyritic rhyolite and some altered to a pale green, feldspar phenos - Appears to be brecciated by alteration	Quartz - sericite infill between fragments, locally hematitic	Rare Pyrite
1117 - 1139'	- Mafic dyke - chilled throughout with amygdules of calcite ringed with chlorite. Very poor core recovery - about 3' total. - Drill hole probably runs along contact		
1139 - 1583'	- Rhyolite - dark maroon to locally pink (altered) - Porphyritic with white to orange feldspar - 1139 - 1151' - only about 2' of core - appears to be more altered breccia as for 1081 - 1117' (sericitic clasts and matrix) some diabase pieces - 1151 - 1160 - bleached pink with quartz and epidote stringers - Flow banding locally - rare - 1335 - 1352 - Mainly dacitic tuff (could be altered rhyolite) (some lost core) - 1339 - 1496 - Poor core recovery - average $\approx$ 50% - Local rhyolite breccia - autobreccia - 1475 - 1477' - brittle breccia with epidote - silica cement	Some hairline epidote - silica veins to fracture infill giving breccia appearance 1335 - 1352' strong sericitic alteration - some silicification	1154 - 1160 - a few flecks sphalerite in tiny quartz veinlets. 1248 - 1253' - <1% Py. and sphalerite in quartz carbonate stringers - tiny - bleached rhyolite
1583 - 1633'	- Felsic volcanic - tuff (pumiceous lithic tuff - Thurlow) - 1560 - 1565' - only 1' rubbly core - Grey green colour, mottled - Irregular wispy sericitic fragments - pumice? - in a siliceous and locally sericitic matrix - Unit is strongly altered and the textures may be due to alteration - Locally appears to be altered fragmental - breccia	Strong silicification and sericitization	To 1% disseminated Py. local disseminated sphalerite (galena?) best mineralization 1607 - 1609'

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