

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

Sheet No. 1

LATITUDE _____	Tests _____	Dip _____	Magnetic _____	Corrected _____	Project No. _____	Hole No. <u>1778</u>
DEPARTURE <u>11.657.94N 14.973.20E</u>	Depth _____	_____	Bearing _____	_____	Property <u>Middle Branch - Buchans</u>	
ELEVATION <u>3761.29'</u>	_____	_____	_____	_____	NTS <u>12A/15</u>	Grid Name <u>Mine Grid</u>
DIP AT COLLAR <u>-90°</u>	_____	_____	_____	_____	Date started _____	Completed _____
BEARING _____	_____	_____	_____	_____	Contractor _____	
TOTAL DEPTH <u>1773'</u> CORE SIZE <u>Ax</u>	_____	_____	_____	_____		
REMARKS _____	_____	_____	_____	_____	Logged by <u>Jim Harris - 1996</u>	

Depth & Lithology	Description	Alteration	Mineralization
Start log @ 1187' - 1213	- Mafic to intermediate tuff to agglomerate - Grey green colour - mix of quartz - feldspar and lithic fragments. - Most fragments are of a fine green bleached mafic to intermed. tuffaceous rock. Fragments are wispy and embayed with altered rims. Some more rounded and larger fragments to cobbles of porphyritic rhyolite. - Fragments are flattened giving a "layering" at $\approx 60^\circ$ to the core.		
1213 - 1285	- Felsic volcanic - rhyolitic quartz porphyry (to dacite?) "prominent quartz". - "Crystals" of quartz, faint feldspar and lessor chlorite in a buff rhyolitic groundmass. - "Diabase" dyke 1243 - 1251 fine grained - dark green to black amygdoidal. - 2-3" chilled contacts @ $\approx 30^\circ$ to core.	Sericitic alteration of feldspars. 1279 - 1285 only 2' of core (fault?) clay fracture coating - sericitic and weakly silicified.	<1% sphalerite, minor Cpy and local Py Sp - maybe detrited grains? Sample 1294.4 - $\approx$ 1295.4
1285 - 1301	- Fragmental unit. Dark to med. green overall mafic look. - Tuffaceous and locally sediment. - Assorted fragments - qtz, feldspar, chl. and lithic frags. some large cobbles of mafic vol. and clasts on dykes of above porphyry.	1285 - 1292 $\approx$ 60% recovery	
1301 - 1306.5	- Rhyolite porphyry. Maroon, pink feldspar crystals. Flow or sill?	Lost core 1315 - 1336 and 1285.6 - 1286.6', less than 50% recovery. Rubbly.	
1306.5 - 1316	- Mafic dyke. - Fine grained, grey green amygdoidal - calcite ringed with black chlorite calcite fracture infill		

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Depth & Lithology	Description	Alteration	Mineralization
1316 - 1325'	- Arkose - pink to brownish - Arkose could be tuff in part - Quartz and feldspar grains - rubbly broken core	Sericitic alteration of groundmass	
1325 - 1330'	- Mafic dyke - footages uncertain due to lost core		
1330 - 1357'	- Felsic tuff - dacite crystal lithic tuff - Pink to greenish - coarse quartz and feldspar crystals with dark chlorite - Looks like porphyry over lower 2' - Lower contact rubbly	Locally silicified and sericitic 1337 - 1339.5 and 1349 - 1355	
1357 - 1367'	- Mafic dyke - diabase - Dark green to black - magnetic - massive - Lower $\approx$ 2' chilled and cut by calcite veins		
1367 - 1372'	- Felsic vol. (dacite tuff similar to ore horizon dacite tuff - Thurlow) - Upper 3' - silicified rhyolite porphyry - lower 2' tuff - crystal lithic		
1372 - 1412' (1411 - 1414 $\approx$ 50% core recovery)	- Mafic volcanic - Green to reddish - mainly hematitized basalt - Locally fragmental - Calcite and epidote stringers and fracture infill - Locally contains quartz grains - Lower 2' - foliated to brecciated 65 - 70° to the core		
1412 - 1437'	- Diabase dyke - Dark green - fine grained - amygdoidal down to 1426' - Magnetic - Upper contact rubble but chilled - Lower contact ground core		
1437 - 1773'	- Rhyolite to Rhy. breccia - Mainly maroon feldspar porphyritic rhyolite - Locally fragmental - rhyolite in rhyolite - autobrecciated - Occasional quartz - epidote veins to fracture infill - 1766 - 1773 - brecciated and altered (fault zone?)	Locally bleached and weakly altered around fracture zones	

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