

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

Sheet No. 1

LATITUDE _____	Tests _____	Dip _____	Magnetic _____	Corrected _____	Project No. _____ Hole No. <u>1768</u>
DEPARTURE <u>11.674.25N</u> <u>14.468.54E</u>	Depth _____	_____	Bearing _____	_____	Property <u>Buchans Middle Branch</u>
ELEVATION <u>3790.19</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>1636'</u> CORE SIZE _____	_____	_____	_____	_____	_____
REMARKS _____	_____	_____	_____	_____	Logged by <u>Jim Harris - 1996</u>

Depth & Lithology	Description	Alteration	Mineralization
Start Log @ 1007 - 1147	Mafic volcanics. Generally dark green mafic vol. fine grained. Calcite veining and fracture infill common. Some with quartz also local calcite amygdules. 1014 - 1034 - Tuff to agglomerate or conglomerate, fairly mafic matrix but contains assorted fragments including rhyolite porphyry. 1034 - 1040 - rhyolite dyke or sill chilled contacts. 1040 - 1106 fairly massive basalt 1070 - 1073 - bleached and altered light brown colour. Calcite veining along core. Lower contact somewhat irregular @ $\approx 20^\circ$ to the core (dyke?) 1077 - 1079 - Calcite vein along core. 1106 - 1110 - less than 1' core recovered. Below 110 - more obviously tuffaceous. 1136 - 1137 - small mafic dyke 1127 - 1147 pale green mafic tuff. Tightly packed with lithic fragments. This is the same tuff horizon as seen in holes 1934, 1782, 1778.	weak chloritic alteration local epidote alt'n. 1742 - 1147 somewhat sericitic and silicified.	1014 - 1034 - to 1% hematite.
1147 - 1148	Silicified felsic vol. - faint quartz phenos.		
1148 - 1153	Rhyolite - intrusive? Orange-brown colour - abundant faint "plag" phenos 1154 - 1155.5 bleached a grey green colour - sericitic with flow banding or foliation @ 45° to core.		
1153 - 1202	Felsic volcanic - tuffaceous. Grey green colour - locally with prominent quartz phenos. Feldspars generally altered to soft green sericite. 1161.5 - 1166 - mafic dyke. 1166 - 1169 - 2.5' lost core 1166 - 1174 - prominent quartz with a greater percentage of dark chlorite almost intrusive looking. 1174 - 1202 - obviously tuffaceous locally agglomerate.	local moderate silicification	Minor Py locally @ 1160.5 - 1" silicified zone with 5% Py. 1174 - 1202 1-2% Pyrite.

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Sheet No. 2

Depth & Lithology	Description	Alteration	Mineralization
1202 - 1211	Mafic to intermediate tuff. Pale to medium green - fairly massive.	patchy silicification.	
1211- 1247	Lithic arkose to conglomerate - pink to reddish colour. 1212 - 1220 3.5' lost core. Two small breccia and gouge zones. Core fractured and sericitic throughout.		
1247 - 1270	Rhyolite Porphyry. Abundant plag. phenos. Maroon colour massive - may be locally crystal vitric tuff. Some hematitic gouge coating breaks. 1256 - 1261 ≈ 2.5' core. Fault? 1261 - 1264 ≈ 1' core recovered 1264 - 1270 ≈ 3' core recovered. (1270 - 1273) ≈ 6" core - rubble - some hematitic breccia.	Poor core recovery.	
1273 - 1531	Dacitic crystal vitric tuff. Grey green to locally reddish colour. Abundant feldspar and minor quartz crystals. Local rhyolitic clasts. 1377 - 1379 mafic dyke. 1394 - 1400 abundant angular rhyolite chips. 1400 - 1407 ≈ 3' core recovered - healed fault breccia near 1407. 1432 - 1436 ≈ 2' core recovered some shearing @ ≈ 60° to core - foliation. Maybe more sedimentary towards base.	locally silicified and/or sericitized	disseminated grains of earthy hematite common. Occasional Py grain towards base of unit.
1531 - 1559	volcanic conglomerate - heterolithic breccia? Assorted felsic volcanic fragments mainly rhyolite in a sericitic matrix - 1531.5 - 1532.5 bedded silt to sandstone weakly pyritic, bedding at ≈ 70° to the core. rhyolite clasts are various shades of pink and grey and are locally porphyritic.	Matrix is strongly sericitized.	
1559 - 1608	Rhyolite breccia to conglomerate. From 1559 - 1581 - rounded and angular pink rhyolite fragments in a fine pyritic siltstone matrix. Most often clast supported but locally matrix supported. Soft pale blue "clay" mineral common mainly in matrix. Some rhyolite clasts or porphyritic - feldspar. Below 1581 - matrix is sericitic and maybe tuffaceous. fragments - clasts, gradationally become more silicified and @ about 1594 the unit is mainly grey silicified rock with very little sericitic matrix.	1544-1544.5 Very strongly sericitized green colour. Maybe sheared but not well foliated. Sericitic matrix. Some epidote alteration in rhyolite. Silicification of clasts.	grains of Pb-Zn and pyrite in the matrix. Apparently detrital but may be introduced with alteration. Some grey silicified rhyolite fragments also carry mineralization. (similar to silicified rhyolite at bottom of hole #1798) Overall maybe 1% sulphides
1608 - 1636	Silicified felsic tuff. Upper part of unit looks like dacitic crystal vitric tuff, below 1616 could be a rhyolite breccia. 1623 - 1626 only 1' of core - some gouge on fractures - strongly sericitic - fault.	Strong quartz sericite alteration.	1559-1581 - 2.3% Py. No noted Pb - Zn. 1581 - 1608 - 1-2% Pyrite in matrix.
E.O.H.			1608 - 1636 Py 1-3%

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