

**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>1916</u>
DEPARTURE <u>13.039N</u> <u>15.098E</u>					Property <u>Middle Branch - Buchans</u>	
ELEVATION <u>3803.35</u>					NTS <u>12A/15</u>	Grid Name <u>Mine Grid</u>
DIP AT COLLAR <u>-90°</u>					Date started <u>02/05/61</u>	Completed <u>12/05/61</u>
BEARING _____					Contractor _____	
TOTAL DEPTH <u>2121'</u> CORE SIZE <u>Mixed Ax+AO</u>						
REMARKS _____					Logged by <u>J. Harris (1996)</u>	

Depth & Lithology	Description	Alteration	Mineralization
0 - 70'	- Overburden		
70 - 90'	- Mafic vol. - Not logged		
80 - 1215'	- Drilled non-coring (Tricone?)		
1215 - 1216'	- Intermediate to Felsic Tuff. - dacite	Chlorite and Sericite.	to 1% Py.
1216 - 1219'	- Mafic dyke (sill) - Chlorite filled amygdules - Grey green colour - Contacts chilled and at 60 - 70° to core	Some sericite - may be detrital	About 1 - 2% very fine Pyrite.
1219 - 1237'	- Sediment - Siltstone - Pyritic - Medium grey green - some coarser (fine sand) beds - Bedding about 70° to the core - Some fracture filling calcite and locally qtz.		
1237 - 1349'	- Mafic volcanics. - Dark green chloritic - cut by numerous calcite and locally quartz, stringers/fracture infill. - Amygdoidal locally with calcite, quartz or chlorite - Often fragmental, tuffaceous - Below 1288' - interbedded intermediate vol. - dacite tuff with round quartz grains		

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Depth & Lithology	Description	Alteration	Mineralization
1349 - 1383'	- Mafic dyke - diabase - chlorite amygdules - fine graded (core mixed up somewhat 1348 - 1355) - About 3' of included dacite - dacite tuff between 1348 - 1355, dacite is highly fractured and veined with calcite. - Mafic dyke - centrally is quite amygdoidal with chlorite, calcite and chloride-quartz, infill, quartz always rimmed with chlorite. - Contacts are chilled - lower contact at $\approx 60^\circ$ to core.	dacite - fractured altered - silicified	Py. 3 - 4% in dacite
1383 - 1454'	- Interbedded Andesite and Dacite tuffs - locally agglomerate?, with more mafic chloritic clasts in dacite - to qtz feldspar porphyry. - Intermediate (dacite) - predominates with quartz grains to 2mm - lower contact foliated $\approx 60^\circ$ to core. - Looks like <u>Little Sandy Fm.</u> - Volcanics (Thurlow Relog) - (Lundberg Hill)	Chlorite and sericitic alteration - more pronounced 1420 - 1431.5' 1431.5 - 1435 - strongly silicified (or may be a rhyolitic band)	Generally minor Py. 2" massive py. band with black chl @ 1422' @ 1466' - Small 1" semimassive Py. band with black chl.
1454 - 1761'	- Only 3 - 4" core - mainly a rhyolite feldspar porphyry - pink to orange (Fault Zone - ??)	At least 20 - 30% calcite	
1461 - 1709'	- Mafic volcanic (Basalt of Sandy Lake Fm., Thurlow) - Fragmental (tuffaceous) locally - Shot through by <u>abundant calcite veins</u> also <u>calcite amygdules</u> (pink and white) locally hematitized - As for 1490 - 1588' in hole 1910		
1709 - 1722'	- Ore horizon dacite - Thurlow (Buchans River Fm.) - Dacitic Tuff - Pale grey green - quartz grains to ≈ 2mm also chloritic grains - Cut by hairline fractures and veined with epidote - qtz - Lower contact $\approx 1 - 2$" fine green siltstone? (or chilled dyke) - contains some sulphide grains and some of barite or qtz. with Py. - Irregular upper contact - soft sediment loading? lower contact at $\approx 70 - 80^\circ$ to core	Somewhate silicified and chloritic	Very minor Py.
1722 - 2121'	- Andesitic fragmental, SKI HILL Fm. as per Thurlow - Upper 20' maybe resedimented tuffs - green colour - cut by occasional calcite veinlets - qtz, feldspar and chlorite grains - fragments of amygdoidal mafic vol. - May be mafic flows locally - 1838- $\approx$ 1841 - more felsic unit, may be silicified - Tufaceous or sediment - Some pine feldspar and quartz grains - 1911 - 1923 Poor recovery - some foliation and qtz - epidote alt'n - Fault Zone? - 2063 - 2064 - Sheared Chloritic - Local short zone of more felsic rock - dacite - 2110 - 2121 Not Checked.	Minor chloritic Alt'n - Hematitization locally - local epidote Alt'n 1760 - 1785' Patchy silicification and pink qtz. carbonate stockwork. 1785 - 1786.5' strongly silicified - calcite veining along contacts 2083 - 2098' and 2090 - 2098' - fine grained qtz - epidote alteration. 2098 - 2107 $\approx$ 50% quartz carbonate vein breccia	Sample 1721.8 - 1722' Minor Py.
E.O.H.			

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