

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

Sheet No. 1

LATITUDE _____	Tests	Dip	Magnetic	Corrected	Project No. _____ Hole No. <u>1934</u>
DEPARTURE <u>12.547.47N 14.603.84E</u>	Depth		Bearing	Bearing	Property <u>Buchans - Middle Branch</u>
ELEVATION <u>3774.34'</u>	_____	_____	_____	_____	NTS _____ Grid Name <u>Mine grid</u>
DIP AT COLLAR <u>-90°</u>	_____	_____	_____	_____	Date started <u>1961</u> Completed _____
BEARING _____	_____	_____	_____	_____	Contractor _____
TOTAL DEPTH <u>1618'</u> CORE SIZE <u>Ax</u>	_____	_____	_____	_____	_____
REMARKS _____	_____	_____	_____	_____	Logged by <u>J. Harris 1996</u>

Depth & Lithology	Description	Alteration	Mineralization
0 - 53'	- Overburden		
53 - 70'	- Mafic Tuff - not logged - Drilled non-coring 70' to 1300'		
1300 - 1309'	- Felsic Tuff - Prominent quartz - Pale buff colour - faint, large quartz phenos. - grains in an altered groundmass. - From 1300.5 - 1304.5' - Pink rhyolitic tuff, without large qtz grains. Flatening of lithic fragments gives a layering @ ~ 45 - 50° to the core.	Moderate qtz. ser. alteration	Minor Py.
1309 - 1337'	- Mafic to intermediate tuffs. - 1300 - 1316' - pale grey green - andesitic? lithic tuff - Distinctive tuff horizons seen in other ddhs in area - 1311.5 - 1312.5 - prominent qtz unit as above - Coarse fragmental towards base of unit. - Some short zones with prominent qtz crystals - Lost core around 1322' some evidence of shearing to brecciation.	weak chloritic and sericitic Alt'n	Py. to 1% locally
1337 - 1341'	- Pink rhyolite flow or sill/dyke.		
1341 - 1356'	- Mafic volcanic - Medium green amygdoidal mafic - calcite - also calcite veining - Locally tuffaceous - may be flow elsewhere - Some included jasper clasts near 1341.	Patchy epidote - hematite alteration short 4 - 5 " silicified zone or included rhyolitic clast at 1342.	

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Depth & Lithology	Description	Alteration	Mineralization
1356 - 1364'	- Arkosic conglomerate - Coarse boulders of mainly felsic volcanic and jasper in an arkosic matrix - magnetic locally	hematitized throughout	earthy hermatitic grains and stringers to 8%
1364 - 1366.5'	- Black mafic dyke - strongly magnetic		
1366.5 - 1407	- Arkose - maybe dacitic crystal tuff at top - Feldspar and quartz crystals in very little sericitic matrix - calcite, veined and Amygdoidal mafic dyke or flows @ 1383.5 - 1384.5 and 1309.5 - 1395.5 and 1400 - 1401 - occasional clast of cherry sediment - definite Arkose @ 1389' and below 1395'	Patchy silicification with epidote Sericitic alteration of groundmass	
1407 - 1434'	- Mafic volcanic - calcite veins and Amygdules - pink and white <u>SANDY LAKE FM.</u> - Lower 5 - 8' obviously fragmental - also locally sheared and foliated @ - 65° - 70° to the core.	Locally hematitized Somewhat chloritic	
1434 - 1437.5'	- Light grey - silicified rock	Strong silicification with some sericite	Py. finely dissem to about 4% Lower 10" is 70% Pyrite and the remainder mainly barite - <u>massive sulphide?</u>
1437.5 - 1449'	- Dark green crystal vitric tuff - Some fairly coarse grains, clasts are of jasper unit could be sedimentary	Weakly silicified locally Cut by a network at epidote stringers	Sampled 1434 - 1436.7' and 1436.7 - 1439.5'
1449 - 1524'	- Sediments - Grey to grey green siltstone and fine sandstone - Bedded at 45 - 50° to the core - some soft sediment features - small pebbles - cong. from 1467 - 1472' Mainly sandstone (tuffaceous?) above - 1478' and siltstone below - Coarse SST from 1513 - 1517' - sericitic shear zone 1515 - 1516'		1 - 2% fine Py.
1524 - 1570'	- Intermediate tuff and fragmental - Dark green mottled, occasional chips of jasper in the matrix near the top, feldspars apparent near top - dacitic crystal vitric tuff	Strongly sericitized Local strong hematite alteration hematitic matrix surrounding fragments	
1570 - 1618'	- Rhyolite - pink to maroon colour - 1570 - 1578 - Rhyolite breccia - sericitic - 1590.5 - 1592.5' maybe tuff - sericitic, gradational deeper colour down hole and less sericitic - 1593 - 1598 - irregular hematite alteration veinlets - 1598 - 1618 - maroon to brownish - massive rhyolite - white feldspar crystals - porphyritic	1570 - 1578 - sericitic alteration of matrix, pale green.	
	- 1618' E.O.H.		

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