

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

Sheet No. 1

LATITUDE _____
 DEPARTURE 11.176.23N 14.520.60E
 ELEVATION 3780
 DIP AT COLLAR -90°
 BEARING _____
 TOTAL DEPTH 1585 CORE SIZE Ax
 REMARKS Log started @ 888'

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing
_____	_____	_____	_____
_____	_____	_____	_____
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Project No. _____ Hole No. 1798
 Property Middle Branch - Buchans
 NTS _____ Grid Name Mine grid
 Date started 1959 Completed _____
 Contractor _____
 Logged by J. Harris 1996

Depth & Lithology	Description	Alteration	Mineralization
888 - 924'	- Mafic dyke, black - massive - magnetic, minor calcite veining to fracture infill		
924 - 1012.5'	- Felsic tuff to agglomerate - Prominent quartz, dacitic matrix - Varous fragments of felsic and internet volcanics - 962.5 - 965.5 grey intermediate dyke or sill - appears to have chilled contacts - 1001 - 1003 sheared - foliated @ $\approx 75 - 80^\circ$ to core foliation is often disrupted - 1003 - 1006 pink rhyolitic dyke or flow - lower 1.5' dacite tuff	Sericitic and chloritic alteration of groundmass some fragments of silicified	962.5 - 965.5' - considerable (2-3%) galena - sphalerite, disseminated and on fractures mineralization is confirmed to this unit. also some cpy.
1012.5 - 1046.5'	- Rhyolite - maroon hematitized - Faint feldspar phenos. - Dacite tuff 1024 - 1026'		
1046.5 - 1071'	- Arkose and arkosic conglomerate - various fragment types - 1066 - 1067 - jasper - iron Fm., silicified. - Locally bedded @ about 70° to core - 1066 - 1067 - mafic agglomerate - calcite infill (maybe a boulder) - 1067 - 1068 - dacitic tuff - (ore horizon type - Thurlow)		1066 - 1067' - 10% hematite
1071 - 1084'	- Maroon rhyolite - prophyritic with plag. (Top of ore horizon sequence - Thurlow)		
1084 - 1088'	- Dacitic tuff and arkose - Dark to light green interbedded - Upper contact at $\approx 40^\circ$ to the core.		

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Sheet No. 2

Depth & Lithology	Description	Alteration	Mineralization
1088 - 1270'	- Felsic volcanic - maroon to pink porphyritic rhyolite - Orange feldspar and a few quartz phenos - Locally brecciated by darker hematitized zones. - 1240 - 1245' - fragmental - tuffaceous hematitized fragments of rhyolite in a green sericitic groundmass - maybe due to alteration - Small bed of "Arkose" at 1243.5' - maybe an inclusion - Hint of layering down to 1270' - maybe in part a crystal vitric tuff.		
1270 - 1341'	- Dacitic crystal lithic tuff - Dark to med. green - reddish hematitized over upper 10' - Locally layering - bedding at $\approx 80^\circ$ to the core - Abundant plagioclase crystals - Coarser and assorted lithic fragments towards base - some of rhyolite - @ 1312'. Calcite veining along core - $\approx 2'$ lost core 1310 - 1315' - small fault @ $\approx 1329'$	Moderate to strong sericitic alteration of matrix	Minor py.
1341 - 1496'	- Felsic volcanic - Rhyolite and rhyolite breccia - locally autobrecciation - mostly grey to grey green but has pink cast over upper 25' - less altered - Some flow banding evident over this zone - 1420 - 1450 - Darker colour - sericitic - tuff breccia - unmineralized - @ 1439 - healed fault breccia to fracture zone - 1450 - 1451.5' Brittle fracture zone - small gouge and breccia at 1451.5' @ $\approx 15^\circ$ to the core. - 1483.5 - 1496' - aphanitic grey brown silicification, becomes less altered towards 1496- a few faint feldspar phenos. can be seen.	Moderate to strong silicification and local sericitization Lost core 1411 - 1430 1411 - 1420 - only 4' 1420 - 1423' - only 6" 1423 - 1429' - only 2' 1427 - 1430' - only 1'	Pb, Zn, py and cpy - on fractures and dissem. with alteration - best mineralization with silicification and not with sericitic sections. only minor mineralization above 1370' (@ 1350') best min. 1384 - 1395' $\approx 5\%$ 1408 - 1420' $\approx 5\%$ 1480 - 1482'
1496 - 1506'	- Mafic dyke - black - magnetic		
1506 - 1526'	- Rhyolite - orange brown colour - porphyritic - plagioclase - Poor core recovery - healed breccia @ 1508'		
1526 - 1535'	- Felsic tuff - dacitic - pale grey green - Poor recovery - Fault breccia 1530.5 - 1533.5' - silicified fragments, some calcite infill.	Sericitic alteration throughout - minor silicification	
1535 - 1585'	- Rhyolite intrusive - Brown to pink colour - massive - almost felsite locally - 1562 - 1578' - pale grey sericitic alteration - Flow banded at 35° to core at top - local calcite veining	Plag - altered to sericite	

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PROPERTY Middle Branch - Buchans

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