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

LATITUDE _____

DEPARTURE 11,223.10N 15,136.32E

ELEVATION 3747.43

DIP AT COLLAR -90

BEARING _____

TOTAL DEPTH 2039 CORE SIZE Ax

REMARKS _____

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing

Project No. _____ Hole No. 1782

Property Middle Branch - Buchans

NTS _____ Grid Name Mine Grid

Date started 1959 Completed _____

Contractor _____

Logged by Jim Harris - 1996

Depth & Lithology	Description	Alteration	Mineralization
0 - 40 Log started @ 1009	Overburden.		
1009 - 1018	Mafic volcanic basalt - andesite fragmental - fairly coarse lithic tuff. White and pink carbonate in fill.		
1018 - 1069	Felsic to locally intermediate vol. Dacite quartz feldspar porphyry may be tuffaceous. Some interbedded mafic over upper few feet.	Patchy quartz - sericite alteration with fairly strong and consistant alt'n below 1040.	1022 - 1024 - altered. Possible stringers of barite. <1% finely disseminated Py and minor Cpy below 1039, close to 1% Cpy over 2" @ 1039 - associated with fractures.
1069 - 1078 about 40% recovery	Mafic tuff to agglom. Bleached a pale green colour. Wispy lithic fragments (similar to start of log in 1778).	Sericite - chlorite altn.	
1078 - 1087	Mafic dyke. Black fine grained - massive, magnetic.		
1087 - 1132	Felsic volcanic - quartz feldspar porphyry, tuffaceous? upper 4' more tuffaceous looking. Bleached a pale green to pink. Feldspar phenos faint and altered to pale green sericite. Some chlorite "phenos". 1130 - 1132 only about 3" of core more altered - chl. and ser. poor core recovery right down to 1230 - area of Airport Thrust?	Moderate sericitic alteration. Minor silicification.	
1132 - 1142	Red "altered" hematitized rock - Jasper? (interbed of iron formation?) May be altered from above. Brecciated by alteration - strongly magnetic.	Strong silicification and pervasive hematization.	Pyrite ≈ 1% as disseminated cubes. About 8-15% magnetite or mag - hem.

HOLE NO. 1782

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

Depth & Lithology	Description	Alteration	Mineralization
1142 - 1185	As for 1087 - 1132. Brecciated appearance over upper 2 - 3' due to alteration. Also contains short zones of above hematitized rock.		Py and magnetite with alteration . ie. 1152.5 - ≈ 1154 - 30% + mag.
1185 - 1293	Mafic volcanic - basalt (Sandy Lake Fm.. - Thurlow) Green to reddish colour. Calcite amygdules and calcite stringers down to 1205, contains some hematitized felsic. (May be Lunberg Hill down to here or could be mixing on the fault.).	Wormy silica - epidote flooding locally. Somewhat hematitized throughout.	
1293 - 1314	Sediments. Light green and black cherty siltstone and tuffaceous wacke. Bedding 40-45° to the core comformable contacts.	Some sericitic alteration throughout as wavy lamalie.	
1314 - 1364	Felsic Tuff dacite crystal vitric tuff (- Thurlow) (ore horizon dacite) green to locally mottled red - hematitized. Generally massive - large percentage of feldspar xtals - local hint of layering @ ≈ 45° to core.	Strong sericitic alteration of ground mass.	Disseminated hematite, magnetite throughout 2 - 3%.
1364 - 1496	Rhyolite maroon colour - porphyritic with orange feldspar and small qtz. cut by pale green silica - epidote fracture infill. Buchans Group Rhy. - Thurlow.	Very local silicification some hematitization.	
1496 - 1607	Felsic volcanic Rhyolite - light pale to brown - faint quartz and feldspar phenos. Very likely alteration of above unit.	Weak to moderate sericitic alteration.	
	Contact at 1607 looks like an irregular erosiional contact with chips of the overlying pink rhy. in the arkose below (overturned?) from 1605 - 1606 - one thin fault gouge @ 1605 and healed breccia to 1606 (and maybe 1607).		Some minor disseminated Py near bottom.
1607 - 2039	Lithic Arkose maybe partially tuffaceous near top (not logged).		

HOLE NO. 1782