

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

Sheet No. 1

LATITUDE _____	Tests _____	Dip _____	Magnetic _____	Corrected _____	Project No. _____ Hole No. <u>1730</u>
DEPARTURE <u>9364.36 N 13.189.61 E</u>	Depth _____	_____	Bearing _____	_____	Property <u>Middle Branch</u>
ELEVATION <u>3792.21</u>	_____	_____	_____	_____	NTS <u>12A/15</u> Grid Name <u>Mine Grid</u>
DIP AT COLLAR <u>- 900</u>	_____	_____	_____	_____	Date started _____ Completed _____
BEARING _____	_____	_____	_____	_____	Contractor _____
TOTAL DEPTH _____ CORE SIZE <u>83 -120 Bx</u>	_____	_____	_____	_____	_____
REMARKS _____ <u>120 - Ax</u>	_____	_____	_____	_____	Logged by <u>J. Harris (1996)</u>

Depth & Lithology	Description	Alteration	Mineralization
0 - 85	Overburden.	Chloritic and sericitic alteration weak to moderate.	
85 - 185'	Mafic volcanic dark green chloritic strongly foliated @ $\approx 70^\circ$ to the core, wisps and stringers of calcite common, maybe tuffaceous locally. Lower contact gradational.	Strong quartz - ser. alteration.	Py 3-10% as conformable bands.
185' - 233	Silicified mafic vol. or altered felsic, light grey to buff. Strongly foliated at $\approx 80^\circ$ to the core, broken crystals of plag. locally (faint) probably tuff. 217 - 233' $\approx 50\%$ core recovery foliation contorted, some fault gouge between 221 and 226'.		
233 - 263'	Interbanded porphyritic mafic to intermediate vol. and quartz ser. alteration as above.		
263 - 363	Mafic vol. similar to 85' - 185' but not foliated, locally amygdoidal. Tuffaceous - at least in part. More porphyritic towards base.	weak to moderate chloritic.	Minor Py. 316 - 318' silicified Breccia - 1-3% Py.
363 - 464	Intermediate vol. porphyritic. Andesite - dacite, hard glassy matrix with feldspar and a few qtz. phenos. Calcite stringers and on fractures.		
464 - 479	Volcanic breccia - mafic to intermediate. Some green siltstone fragments, gradational lower contact.		Minor Py.
479 - 630	Felsic to Intermediate volcanic (crystal lithic tuff) at top grading to more Felsic and porphyritic. May still be tuffaceous locally - flattened altered shards. Locally foliated @ 80° to the core. 504 - 513 $\approx 20\%$ calcite vein breccia. Mafic Tuff 554.5 - 555.5 Mafic Tuff 556.0 - 556.5 570 - 576' less altered. Intrusive appearance. 581 - 600' well foliated $70^\circ - 40^\circ$ to the core (around 40° centrally)	Quartz ser. alteration moderate to strong altered feldspar phenos. Sometimes appears brecciated by alteration.	Very rare dissem. Py. down to $\approx 560'$ 563 - 566 $\approx 5\%$ Py and Cpy disseminated to fracture controlled. to 1% dissem. Py below 566
		612 - 630 strong qtz. sericite altw	

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Depth & Lithology	Description	Alteration	Mineralization
630 - 643.5'	Mafic vol., tuffaceous Med. green, wisps and fracture infill of white carbonate. Local foliation or banding.	Chloritic alt'n	
643.5 - 724	Interbedded arkose and mafic fragmentals. For the most part sedimentary. Epidote stringers and alteration common. Some short mafic vol. or dyke zones. Occasional red chert clasts. Colour variation due to mafic or felsic source for sed.	Locally brecciated by silicification.	
724 - 889	Arkose (lithic) coarse sand to conglomerate (fairly typical arkose) Felsic vol. clasts, qtz. and feldspar grains. 881 - 885 interbedded siltstone and shale with Arkose. Some sericitic slickensides on fractures 883'		
889 - 899	Felsic volcanic, crystal tuff (dacitic). Cut by epidote - qtz. calcite fracture infill.		
899 - 983 (previously logged by J.G.T. from 899 to bottom)	Felsic volcanic quartz and feldspar porphyritic rhyolitic fragmental. 889 - 899 may be weakly altered equivalent. Maroon colour. Lithic fragments evident throughout qtz - epidote, stringers rare hematite on fractures, lower 5' more fragmental - conformable to gradational contact.	Maybe similar to dry felsics n. of microwave tower.	
983 - 1047	Sedimentary breccia to conglomerate upper 5' dacitic crystal lithic tuff. As per Thurlow Log 983 - 1342	1038 - 1047 sericitic and silicified clasts.	983 - ~ 1038 ~ 1% Py as disseminated grains. 1038 - 1047 3-5% Py disseminated in groundmass and clasts.
1047 - 1119	gradual increase in black ore and Py matrix material downward. Also some dissem sp. in altered felsic vol. clasts. @ ~ 1103 grains of light blue mineral (lazalite colour)		1038 - 1047 3-5% Py dissem. in ground mass and clasts.
1128 - 1138 1138 - 1153	Pyritic wacke - rich in qtz. grains. (silicified?) besides large ore clasts - fine sp. with Py in matrix and some dissem in altered felsic vol. clasts.	1153 - 1160 Some larger clasts.	
NOTES 1175 - 1231	Altered felsic vol. - Rhy. to rhy. breccia - Thurlow. White rhyolite locally brecciated by 2" darker silicification. "fracture controlled" Py, Sp. (Gn) veining fairly common down to 1189 with less throughout. (relationship to debris flow ore above?) Breccias probably hydrothermal as Py and some ZnS in breccia matrix.		
1231 - 1243	Breccia, groundmass sericitic - altered. (hetrolithic) debris flow (altered hetrolithic breccia - Thurlow)		

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Sheet No. 3

Depth & Lithology	Description	Alteration	Mineralization
1243 - 1285	Felsic vol. - dacitic - rhyolitic 1243 = 1269 maroon qtz. felds. porphyritic rhyolite (pink feldspar) upper 2' darker appears somewhat altered. 1269 - 1285 appears to be similar to above but softer weakly altered groundmass. Also darker more greenish colour and phenos. Less distinct (dacite?)		
1285 - 1300	As per Thurlow altered mafic - intermed. Tuff.		
1300 - 1327	As per Thurlow - Dacitic crystal vitric Tuff. May be in part sedimentary.		
1327 - 1342	As per Thurlow - wacke and lithic Arkose. Upper 2' Arkose, remainder mainly wacke.		

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