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

LATITUDE _____
DEPARTURE 11,981.06E 9560.7N
ELEVATION 3867.96
DIP AT COLLAR -90°
BEARING _____
TOTAL DEPTH 801' CORE SIZE Ax → 161 Ex 161 - 801
REMARKS _____

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing

Project No. G-4806 Hole No. 2864
Property Buchans - Middle Branch Area
NTS 12A/15 Grid Name Mine grid
Date started 1972 Completed _____
Contractor _____
Logged by J. Harris (1997)

Depth & Lithology	Description	Alteration	Mineralization
0 - 152'	- Overburden		
152 - 259'	Mafic volcanic - tuff - Medium to pale green, locally porphyritic with altered Plag. - Wisps and stringers of calcite common - Moderate to strongly foliated @ 10 - 20° to the core, locally folded	weak chloritic alteration	minor py. minor cpy. @ 161'
259 - 368'	Felsic volcanic - altered tuff - Buff to grey colour, fragmental textures locally but may be due to deformation - 330 - 343' - two 4 - 6' zones of chloritic mafic - Strongly foliated at various angles to the core - folded - Generally at low angles 20 - 40° down to 350' then mainly at 45 - 50° to the core - 366 - 376' - 5' of core lost, some brecciation - thrust fault?	moderate to strong quartz - sericite alteration	py. - 2 - 5% disseminated ~ 350 - 360' < 1% disseminated Pb-Zn, also minor cpy. concentrated along conformable bands
368 - ~ 427'	Dacitic crystal vitric tuff - Buchans River Fm. - Faint altered plagioclase crystals throughout - 406 - 420 - pale pink - maybe rhyolitic	Moderate to strong sericitic alteration - some black chlorite on fractures	Minor pyrite core recovery ≈ 50% 386 - 427'
427 - 514'	Felsic volcanic quartz - feldspar porphyritic rhyolite or welded tuff - pink to pale green - pale green areas more altered - Some carbonate and carbonate silica veining to fracture infill - very poor core recovery throughout ≈ 40%	hematitized, feldspars altered to sericite - some sericitic alteration of groundmass	<1% disseminated mag - hemitite weakly magnetic

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Depth & Lithology	Description	Alteration	Mineralization
514 - 527'	Dacitic Tuff - Dark green to reddish - Abundant plagioclase crystals and crystal fragments - Conformable lower contact	Moderate sericitic and chloritic alteration of groundmass - some black chlorite on fractures	<1% disseminated hematite
527 - 564'	Felsic tuff, maroon to locally pale green - Similar to 427 - 514' - sand sized pink K-spar crystals - altered plagioclase crystals - red hematite stringers common - Could be in part sedimentary - ≈ 60% core recovery except 541 - 555' ≈ 6" recovered - 555 - 560 ≈ 1' recovered	sericitic alteration of feldspar and groundmass	<1% disseminated hematite
564 - ≈ 582'	Felsic tuff? - pale green - 564 - 566 - sericitic and sheared, may be altered from above unit - remainder of unit is of quartz, altered feldspar and pale green silicious lithic grains in a quartz - sericite groundmass - lithic grains could be of siltstone	moderate quartz - sericite alteration	minor disseminated pyrite
582 - 702'	Dacitic tuff - green to pinkish colour - commonly lithic rich, with assorted lithic fragments, some of mafic volcanic - green dacitic tuff matrix - locally looks similar to Arkose (Sandy Lake) - occasional granitic clasts (i.e. 661 - 662') - below ≈ 665' more typical Buchans River Fm. dacite tuff - medium green colour with abundant plagioclase - still some lithic clasts and pink k-spar chips - lower contact area sheared and more sericitic - some lost core	weak to moderate sericitic alteration of feldspars and groundmass	minor disseminated py. down to ≈ 630'
702 - 724'	Rhyolite - dark maroon colour - well fractured with epidote or hematite infill - faint plagioclase phenos. apparant locally - locally appears fragmental - brecciated - ≈ 50% core recovery from 706 - 716' - conformable lower contact at ≈ 90° to the core		
724 - 762'	Felsic tuff - pale grey-green - wispy - layered pummice fragments - soft white altered feldspars - clay minerals - possible layering at 35 - 40° to the core near 762' - 756 - 761' ≈ 3.5' core lost ≈ 1' lost 751 - 756'	strong sericitic and clay alteration - wisps of black chlorite locally	<1% disseminated pyrite - mainly very fine

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Depth & Lithology	Description	Alteration	Mineralization
762 - 783'	Mafic dyke - grey-green - locally amygdoidal		minor pyrite
783 - 797'	As for 724 - 762' - Upper contact lost - may be faulted - some gouge near contact - 788 - 798' ≈ 30% core recovery		
797 - 801'	Altered felsic volcanic - grey colour (may be in part altered rhyolite but is similar to above tuff locally) Poor core recovery	silicified and sericitic alteration	1% finely disseminated pyrite - mainly with silicification - some fine Pb-Zn mineralization
801' E.O.H.			

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

SHEET NO. _____ PROJECT NO. G-4806

HOLE NO. 2864 PROPERTY Buchans - Middle Branch

Sample No.	From (feet)	To (feet)	Length (feet)	DESCRIPTION	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	approx. Ba (ppm)		
2864	358'	368'	10'		466	367	410	1.1	5	222		