

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

LATITUDE L 152 + 00 E
 DEPARTURE 83 + 50 N
 ELEVATION _____
 DIP AT COLLAR - 60°
 BEARING 180°
 TOTAL DEPTH 111.9 CORE SIZE BO
 REMARKS _____

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing
None			

Project No. _____ Hole No. BE-95-07
 Property Buchans East
 NTS 12A/15 Grid Name _____
 Date started Dec 16/95 Completed Dec 18/95
 Contractor IDEAL DRILLING (Nfld.) LTD.
 Logged by Phillip Saunders

Depth & Lithology	Description	Alteration	Mineralization
0 - 9.8	OVERBURDEN		
9.8 - 37.7	FELSIC FRAGMENTAL - coarse, heterogenous fragmental unit - mainly angular, some flattened fragments to 10cm+ - matrix variable from hard, black & siliceous to green chloritic - fragments mainly f.g., intermediate-felsic composition, some mafic, a few of qtz porphyry - flattened fragments, 80° @11.2m & 11.5m, 75° @21.0m, 65° @30.0m - above 20.5m, core extremely rubbly missing & ground core, heavy calcite +/-qtz veining probably faulted 20.5-21? some gouging, brecciation, minor displacements along fractures - rubbly, broken core throughout, fractures mainly 60-80° TCA, some sub-parallel TCA 29.9 - 6cm gouged core - probably missing core - fault? 32.8-33.1 en echelon qtz-calcite veins @20° TCA. Tension gashes?	- calcite +/- qtz veins, some vuggy, probably fault related	minor pyrite, mainly on fractures, cutting fragments & matrix

Depth & Lithology	Description	Alteration	Mineralization
37.7 - 70.1	MAFIC VOLCANICS 37.7-44.8 - dk green, coarse fragmental unit - siliceous & mafic volcanic fragments, angular to sub-rounded, mainly >2cm long - more mafic fragments, more chlorite in matrix, color change, green to grey, compared to unit above - upper 1m greenish-grey, fine grained, uniform fairly siliceous rock (sediment?) - occasional large, creamy white, very siliceous altered fragments w/ qtz phenocrysts. Hairline fractures lined w/ silica. Look altered. No sulfides - fairly competent unit, good core, fractures 60-90° TCA 41.8 - 2cm fragment of coarse grained siliceous rock w/ anomalous, bright orange-red mineral - feldspar(?) 42.2 small kink folds - flattened fragments generally average ~70° TCA 44.8-50.9 - generally finer grained, heterogenous tuff - occasional large, siliceous fragments - local zones of more intense qtz-calcite veining - veining commonly ~30° TCA, eg 47.9-49.6m 50.9-58.4 - mainly medium-coarse grained, tuffaceous - poorly sorted, somewhat chloritic, mainly intermediate to mafic lithic fragments - rubbly core, locally gouged w/ calcite veining ~55.8m - amygdular section w/ pillow core? 58.4-63.7 - sequence of dominantly fine grained, mafic volcanics - local siliceous banding, layers suggest inter-pillow material (eg 59.2-62.5). Shallow angles TCA 63.7-70.1 - mainly greenish-grey, fine grained, gritty, tuffaceous-looking rock - local calcite +/- epidote veining	no pervasive alt'n qtz-calcite veing calcite veining calcite veining	- tr py, disseminated - a few small pyritic siliceous fragments minor disseminated py
70.1 - 81.9	ALTERED TUFF? OR SEDIMENTS - greenish-grey & medium to dark grey - fine grained, fairly uniform - somewhat chloritic but dominantly felsic mineralogy - locally well-layered on mm to cm scale 77.1-77.5 - gouge, breccia, rubbly core. Sharp contact @38° TCA ~77m changes from greenish to grey - below 79.0m, generally more siliceous, more pyritic - layering 55° @70.5, 40° @72.3, 25° @78.0, 70° @80.1m 81.3-81.9 - medium grey, glassy & very hard - zone of strong silicification, pyrite - silica along fractures & pervasive, at least 2 generations - py along fractures, cross-cutting veinlets, in qtz veins & finely disseminated - alteration ends abruptly @81.9m	70.1-81.9 - entire zone of fine grained, weakly banded rocks is probably altered - banding may be alt'n related. Some layers are definitely silicified w/ associated py 81.3-81.9 - pervasively altered - stockwork silica - pyrite Cross-cutting pyrite veins Silica veinlets, bands & pervasive alt'n	70.1-81.9 - 2-5% py stringers, fracture coatings & very finely disseminated 78.4 - narrow (<1cm) semi-massive py bands @30° TCA - local py on fractures or in calcite veins 81.3-81.9 ~5% py finely disseminated & veinlets

Depth & Lithology	Description	Alteration	Mineralization
81.9 - 111.9	LAPILLI TUFF - medium grey to faintly greenish-grey - heterogenous, poorly sorted - fragments to 15cm across, mainly 1-3cm - sub-rounded to sub-angular - variety of fragment types, mainly felsic to intermediate, lithologies, some porphyritic, some pumiceous. Not particularly flattened. - a few creamy white, altered, siliceous fragments - rounded qtz grains, 4-6mm. Locally abundant small feldspar grains - some orientation of fragments, mainly 70-80° TCA - chloritic groundmass - overall andesitic(?) composition	qtz-calcite veins - spaced 10-30cm. No pervasive alt'n	trace py
111.9 EOH			

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PROPERTY Buchans East

[illegible]