

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

Sheet No. 1

GPS CO-ORDINATES 17216.43 7763.26N
GRID CO-ORDINATES 172+00E 7700N
ELEVATION 280.0 m
DIP AT COLLAR -90°
BEARING _____
TOTAL DEPTH 134.0 CORE SIZE NQ
REMARKS _____

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
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Project No. _____ Hole No. BE-97-15
Property Buchans River Ltd.
NTS 12A/15 Grid Name Buchans East
Date started 18/09/97 Completed 20/09/97
Contractor Logan Drilling
Logged by P. Saunders & J. Harris

Depth & Lithology	Description	Alteration	Mineralization
0 - 1.0	Overburden		
1.0 - 19.9	Dacite - flow - Medium to dark green - fine grained - common irregular thin calcite & calcite quartz stringers - occasional tiny chlorite blebs - 5.65 - 6.10 - 2 - 3 cm breccia vein sub-parallel to core - mafic dyke 15.3 - 16.5 m - medium green - fine to medium grained feldspar porphyritic - a few calcite amygdules - 16.0 - 16.2 - pink dacite inclusion	minor quartz - sericite alteration along fractures local pink bleaching generally associated with fractures	local pyrite with alteration along fractures and with stringers @ 15.5 - very minor hematite or sphalerite in a calcite vein
19.9 - 32.2	Dykes or sills - pink to reddish brown, "hematitized"? mafic dyke - abundant lath like to feathery plagioclase crystals - minor small dacitic xenoliths - local rounded "clasts" of dyke within dyke - some biotite - locally altered to chlorite - greenish chilled contacts, also local chilled internal contacts	some feldspars sericitized	
32.2 - 32.5	Faint breccia - pink and green dacitic fragments of various sizes in a calcite - silica cement - some chilled dyke contacts near 32.2		
32.5 - 33.0	Dacite - similar to 1.0 - 19.9 - medium green to pink - quartz and feldspar crystals - sharp contact at 33.0 @ 45 - 50° to the core		

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Sheet No. 2

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Sheet No. 3

Depth & Lithology	Description	Alteration	Mineralization
78.2 - 89.9	Light green dacite? - May be more mafic locally Contact appears to be sharp and conformable Generally hard and fine grained, massive A few small calcite amygdules and faint plagioclase phenos Mostly rubbly broken core Fairly common irregular tiny calcite stringers Probable fault zones (brittle) at 82.0, 83.3 - 83.5 and 85.6 Probable conformable lower contact but some rubbly core	locally bleached light grey along fractures 82 - 82.5 & 85.5 - 86.0 bleached and altered - silicified	Minor sphalerite associated with tiny quartz stringers @ 78.2 - 78.3 to 1% pyrite as disseminated blebs @ ≈ 82.2 - very minor cpy associated with a tiny quartz stringer 84.0 - 85.0 to 2% finely disseminated pyrite associated with a network of fractures
89.9 - 91.3	Black and green thinly bedded siltstone and shale bedding mainly at 20 - 30° to the core but locally disrupted - to brecciated, especially 89.9 - 90.5 lower 0.3 m - arkose		91.0 - 91.3 2 - 3% py 89.9 - 90.5 2% py
91.3 - 112.9	Pink rhyolite porphyry dyke or sill mostly aphanitic but some faint feldspar phenos some brecciation - (fault) 92.3 - 92.5 occasional small quartz veinlets generally at 20 - 40° to the core 108.0 - 108.5 highly fractured to brecciated 108.5 - ≈ 112.5 flow banding, sub-parallel to core 112.5 - 112.9 flow banding at about 60° to the core lower contact sheared and very sericitic feldspar phenos altered to chlorite	91.3 - 92.8 pale green sericitic alteration lower 0.4 m along core and may reflect flow banding 108.5 pale green to buff - sericitic	
112.9 - 121.0	Felsic to intermediate volcanic - dacite similar to 78.2 - 89.9, a few plagioclase laths, rare quartz generally medium green but fairly common bleaching to buff near upper contact @ 117.6 - small fault gouge @ 15 - 20° to the core 119.4 - 121.0 - becomes more mafic looking towards base, lower contact conformable @ ≈ 50° to the core	112.9 - 119.4 - patchy bleaching and silicification, dies out downward, pervasive over upper 2 m but related to fractures below 2 m very likely due to overlying dyke	112.9 - ≈ 115.0 - local coarse pyrite cubes minor sphalerite, galena and cpy associated with alteration and fractures and quartz stringers from 116.0 - 117.5
121.0 - 123.7	Black siltstone and shale broken and disrupted bedding - sheared some pieces of cherty siltstone rare bands/beds of arkose or tuff to 0.1 m small calcite stringers common	tiny quartz stringers and silica flooding common	pyrite 3 - 4% 123.0 - 123.1 8 - 10% pyrite in pyritic siltstone very minor possible sp with quartz @ 122.5 fleck cpy
123.7 - 134	Felsic pyroclastic or arkosic conglomerate? Similar to 45.0 - 49.7 m mainly pink, grey and greenish felsic volcanic clasts in a tuffaceous matrix 128.6 - 128.4 more arkosic looking 128.4 - 130.9 more mafic looking with some mafic clasts & locally mafic matrix, flow? 130.9 - 134.0 may be sheared arkosic conglomerate 132.9 - 133.7 black "graphitic" siltstone bands and matrix - @ 134.0 E.O.H. -	weak to moderate sericitic and chloritic alteration of matrix, some silicified felsic volcanic clasts	pyrite ≤ 1% locally 1 - 3%

HOLE NO. BE-97-15

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

SHEET NO. _____

PROJECT NO. B-4293

HOLE NO. BE-97-15

PROPERTY Buchans East

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