

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

LATITUDE L154E
 DEPARTURE 51 + 75N
 ELEVATION _____
 DIP AT COLLAR -90°
 BEARING _____
 TOTAL DEPTH 159.4 CORE SIZE BO
 REMARKS _____

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing
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Project No. _____ Hole No. BE-96-14
 Property Buchans East
 NTS 12A/15 Grid Name _____
 Date started Feb 26/96 Completed Mar 1/96
 Contractor IDEAL DRILLING (NFLD.) LTD
 Logged by Jim Harris

Depth & Lithology	Description	Alteration	Mineralization
0 - 8.0	OVERBURDEN (8-8.5 ground core)	- hematite alt'n locally	
8.0 - 101.9	SEDIMENTS - fine sandstones & cherty siltstones, red, pale green & locally purple - coarser medium grained volcanogenic sandstone, (qtz, k-spar & siltstone grains), beds are generally red & up to 2m thick. Finer siltstones are thinly bedded - bedding @60-70° TCA - @12.0m, small fault gouge, @14.2, small fault 14.4-14.5 - epidote/silica cemented fault? breccia - thin qtz carbonate stringers common - possible graded bedding @=34.5m. Tops up hole - = 14.5-43.4 - grey to pinkish & green sandstone & thinly bedded siltstone 43.4-44.0 - conglomerate, large porphyritic felsic volcanic, pebbles to cobbles in a sandy matrix (mainly rhyolitic clasts) 44.0-53.5 - mainly cherty red mudstone w/ thin sand beds & grey-green siltstone beds. @51.9, one large porphyritic rhyolite clast 53.5-58.0 - very fine green to tan & minor purple cherty mudstone 58.0-66.9 - thinly bedded pink & green cherty mudstone & siltstone, some sandstone beds 66.9-74.6 - conglomerate. Clast supported for the most part, large cobbles or bombs of porphyritic purple rhyolite. Very little matrix of sand & fine pebbles. Some siltstone pebbles, hematite cement locally	8.5-15.0 - some local epidote alt'n - white carbonate infilled brittle fracture locally	

HOLE NO. BE-96-14

Depth & Lithology	Description	Alteration	Mineralization
8.5 - 101.9 (Cont'd)	74.6-76.9 - red cherty mudstone w/ bands of green mudstone. Green may be bleaching of the red unit 76.9-101.9 - conglomerate & volcanic breccia similar to 66.9-74.6, hematitic cement common 79.9 - small fault zone, fragmental throughout - locally appears to have a volcanic groundmass. All fragments - clasts of purple rhyolite porphyry, groundmass locally the same	74.6-76.9 - cherty qtz stockwork veinlets locally w/ carbonate 76.9-101.9 - sericitic alt'n of the groundmass locally, occasional wormy qtz veinlets, cherty, some hematite alt'n	
101.9 - 102.6	<u>MAFIC DYKE</u> - fine grained, coarse plagioclase phenos locally. Magnetic, dark grey-green colour. Irregular chilled contacts		
102.6 - 112.5	<u>FELSIC VOLCANIC BRECCIA - AGGLOMERATE</u> - similar to 76.9-101.9 but no obvious sedimentary groundmass. Purple rhyolite porphyry, k-spar & plag phenos, also some qtz. Groundmass same as fragments, may be a flow locally Fault zones @102.9-103.0, 117.4, 117.6, 111.2-111.9, 3 to 4 narrow gouge & breccia zones	- qtz & qtz-carbonate veinlets locally - local weak sericitic alt'n	
112.5 - 113.7	<u>MAFIC DYKE</u> - as for 101.9-102.6 but not plag phytic. Some tiny chlorite filled amygdules, irregular chilled contacts. Inclusion of felsic vol. 113.5-113.6, white carbonate filled fracture		
113.7-116.0	- as for 102.6-112.5, lower 0.4m fragmental, may be sediment but likely shearing. Fault breccia & gouge common. 113.7-114.4 lower 0.4m foliated at about 50° TCA		- hematite - alt'n & locally disseminated
116.0 - 118.0	<u>MAFIC DYKE</u> - as for 101.9-102.6 but bleached & more carbonate fracture infill		
118.0 - 119.6	<u>FAULT ZONE</u> - gouge & breccia, clasts of mafic dyke, rhyolite dacite porphyry, one clast of jasper - alt'n		
119.6 - 125.9	<u>ARKOSE?</u> - pale green to pink. Grains of k-spar-qtz & some chlorite - grains are somewhat rounded, could be altered volcanic as below	- strong sericitic alt'n & some minor silicification	- minor disseminated hematite
125.9 - 149.5	<u>FELSIC VOLCANIC</u> - purple to pink rhyolite-dacite porphyry as above, variably altered. Fragmental textures locally due to alt'n or may be volcanic breccia (or sediment) in part - in fresher dark purple parts - plag. phenos mainly - in more altered parts laths of pink k-spar are common. Potassic alt'n? 126.1-126.3 - carbonate qtz veining (or silicification) at ~15° TCA 139.8-139.9 - carbonate vein breccia intense sericitic alt'n for 0.4m above	- variable sericitic alt'n - unit is sometimes bleached pale pink w/ sericitic feldspars & sometimes totally altered a pale green w/ porphyritic clay minerals & k-feldspar growth	- disseminated hematite & hematitic stringers

Depth & Lithology	Description	Alteration	Mineralization
149.5 - 159.4	FELSIC VOLCANIC - as above 125.4-149.5 - pink to purple rhyolite-dacite porphyry, not sericitic as above - purple to pink fragmental texture due to bleaching, irregular bayed boundaries on lighter coloured "fragments"	- bleaching, some hematite alt'n	- some disseminated earthy & specular hematite - earthy hematite in the groundmass locally - hematite stringers & greater % towards bottom
159.4 E.O.H.			

PROJECT NO. _____

PROPERTY Buchans East

[illegible]