

LATITUDE L25N
DEPARTURE 49+80E
EASTING 532225E
NORTHING 5413124N
ELEVATION 280 metres
DIP AT COLLAR -45⁰
BEARING 140⁰
TOTAL DRIFT 7.3m CORE SIZE NQ
REMARKS 1.5m of casing in bedrock

Vinland Resources Limited
DIAMOND DRILL CORE LOG

Sheet No. 1 of 5

Tests Depth	Dip	Magnetic Bearing	Correcting Bearing
15m	-41	161 ⁰	139 ⁰
100m	-40 ⁰	162 ⁰	140 ⁰

Project No. _____ Hole No. SP-04-02
Property Buchans Junction
NTS 12A/15 Grid Name Seal Pond
Date Started Jul 27/04 Date Completed Jul 30/04
Contractor Barker's Construction Limited
Logged By R. M. Graves

DEPTH & LITHOLOGY	DESCRIPTION	REMARKS
0m– 7.3m	Casing	
7.3 – 20.3m	<u>Altered Mafic Volcanic</u> Grey-green in colour, strong penetrative cleavage, unit completely deformed and also completely altered to sericite; penetrative fabric orthogonal to core axis, hosts 2-3% fine disseminated pyrite throughout; also hosts bands of pyrite as at 7.0m, 11.0m, 11.6m, 12.9m, 14.7m, 17.0m 17.7m, 18.5m and 19.3m; protolith is a fine grained dark green mafic volcanic at 9 – 10m; alteration and deformation likely crosses different rock types - crenulation cleavage superimposed on penetrative fabric locally - fault gauge at 19.0m	
20.3 – 24.6m	<u>Mafic Dyke</u> Brown to dark green in colour, fine grained, equigranular, non-magnetic, non-calcareous, upper and lower contacts are chilled	
24.6 – 39.8m	<u>Altered Volcanic</u> Same as at 7.3 – 20.3m; grey in colour, completely sericitized, completely deformed; fabric at 80 ⁰ TCA, locally it appears the protolith is felsic-intermediate lapilli tuff although fragments could be tectono-clasts - 2-3% fine disseminated pyrite throughout, small bands of pyrite at 25.6m, 25.9m, 26.3m, 27.1m, 35.1m, 36.6m and 36.8m - numerous (say 14-15) semi-massive pyrite bands from 35.6 – 36.1m, bands are generally .5 – 1cm in thickness - chalcopyrite grain at 26.3m - deformed quartz-chlorite veins from 25.4 – 25.7m - 10-20cm thick zones of fault gouge at 33.3m, 33.8m and 34.1m - lower contact is sharp; altered rock may be related to fluid flow along fault, alteration and pyritization related to zone of intense shearing and ductile deformation; units below are much less deformed and altered	
39.8 – 51.7m	<u>Mafic (Intermediate) Volcanic</u> Green, strong fabric from 39.8 – 43.8m related to shearing in unit above; rock appears to be a breccia/tuff comprising amygdaloidal basalt lapilli and bombs in an intermediate/mafic matrix; amygdules tend to be silica	

	with only minor calcite; pyritization at 40.7m, 40.9m, 42.1m, 42.9m, 43.3m, 43.6m, 44.4m, 45.8m, 46.5m, 47.6m, 47.8m, 48.3m, 48.7m, 49.3m and 51.2m - there is a possible internal contact within unit at 49.2m - lower contact somewhat arbitrary, appears to grade into unit below	
51.7 – 63.1m	<u>Intermediate Crystal Lithic Tuff</u> Grey in colour, non-magnetic, non-calcareous, massive, not much fabric except for weak depositional layering at 80° TCA, amygdaloidal andesite and basalt clasts common in an intermediate matrix; felsic aphyric granule size fragments comprise 10% of unit – fragments are angular, more frequent and up to 2cm in diameter over basal 3m of unit - pyritization occurs as frequent heavy disseminations ; pyrite at 55.2m, 55.4m, 56.7m, 57.0m, 57.9m, 58.1m, 59.3m, 59.5m, 59.7m, 61.0m and 61.2m, 62.6 and 63.1m - band of silica – sericite alteration from 60.1 – 60.3m - chalcopyrite bleb at 61.9m - lower contact irregular and roughly orthogonal to core axis	
63.1 – 64.8m	<u>Rhyolite</u> White-grey, massive, no fabric, very siliceous, tract 1% pyrite throughout; thin pyrite-chlorite veinlets; non-magnetic - lower contact sharp at 70° TCA	
64.8 – 67.5m	<u>Felsic Crystal Ash Lapilli Tuff</u> Grey, massive, no fabric, ash matrix of intermediate-felsic composition, hosts 10-20% angular siliceous felsic fragments 1-4cm in diameter, non-magnetic - hosts 5% dark grey vitric shards .1-1cm in length - pyritization at 65.2m, 65.6m, 65.9m, 66.8m and 67.1m - lower contact not easily discernible; grades rapidly into unit beneath	
67.5 – 77.6m	<u>Felsic – Intermediate Ash Lapilli Tuff</u> Grey, massive, no fabric; non-magnetic; matrix is ~50% of unit and comprised of felsic-intermediate ash, ~45% grey siliceous felsic lapilli and whitish-grey angular intermediate lapilli, ~5% dark grey vitric shards .1-1cm in length - pyritization at 68.1m - grey aphanitic siliceous inter-clast material from 75.6 – 75.8m perhaps incorporated from unit beneath - appears to be a gradational lower contact over a few centimeters	
77.6 – 83.2m	<u>Felsic Lapilli Tuff</u> Grey, massive, no fabric, non-magnetic - hosts 25-50% grey angular, aphanitic and siliceous lapilli having 2-5% fine pyrite, matrix for most part is intermediate-felsic ash, andesitic bands at 80.4m having silica amygdules - irregular shaped pyrite blebs and veins from 1-5cm in length occur at 77.7m, 77.8m, 78.5m, 78.9m, 79.2m, 79.4m, 79.6m 79.7m, 80.5m, 80.6m, 80.9m, 82.0m, 82.6m and 83.1m	

83.2 – 88.9m	<u>Poly lithic Lapilli Tuff/Lapilli Stone</u> Green-grey in colour, preponderance of rock comprises angular to sub-angular mafic, intermediate and felsic lapilli; depositional fabric at 70-80° TCA; very little pyrite in this unit as compared to that above and below - disseminated pyrite and veins at 84.2m, 84.7m, 85.3m, 87.1m, 87.4m, 87.8m 89.0m and 88.5m - lower contact is gradational and perhaps arbitrary	
88.9 – 104.6m	<u>Felsic-Intermediate Tuff/Lapilli Stone (Boxes 19-22)</u> Grey in colour, unit comprises >75% siliceous coarse (3-5cm in length) felsic and intermediate lapilli; siliceous felsic clasts are aphanitic and host 2-3% fine disseminated pyrite – the same clasts as seen at 77.6 – 83.2m - disseminated pyrite and veins common in this rock occurring at 88.9m, 89.1m, 89.5m, 89.8m, 90.4m, 90.6m, 90.8m, 91.2m, 91.4m, 91.8m, 91.9m, 92.3m, 92.6m, 92.8m, 93.2m, 93.8m, 94.0m, 94.3m, 94.5m, 94.8m, 95.0m, 95.2m, 95.5m, 96.1m, 96.6m, 97.0m, 97.2m, 97.6m, 98.4m, 98.7m, 99.1m, 99.2m, 99.3m, 101.7m, 101.9m, 102.1m, 102.3m, 102.6m, 102.7m, 103.0m and 103.1m; overall, unit probably hosts 2-3% pyrite - pumice band at 93.9m - lower contact sharp at 80° TCA - pyritized lapilli tuff from 77.6m	
104.6 – 112.3m	<u>Felsic Ash-Lapilli Tuff</u> Grey, weak fabric at 80° TCA, 90% felsic ash matrix and 10% siliceous aphanitic felsic lapilli (.5-1.5cm in length), very distinctive texturally from unit above; siliceous felsic lapilli have fine pyrite and same as those in unit above - pyrite disseminations and veins at 105.1m, 105.6m, 108.0m, 108.7m, 108.8m, 110.4m, 110.9m, 111.0m, 111.4m, 111.6m, 111.8m, and 111.9m - lower 30 to 40 cm of rock is tectonized – has lost original texture	
112.3 – 129.5m	<u>Pyritized and Altered Volcanics (Footwall Alteration ?) => Box 26 – 32</u> Pyritized, sericitized and chloritized volcanics; from 112.3 – 120.1m the protolith is a rhyolite to rhyolitic breccia; pyrite occurs as veins and dissemination locally up to 10% - most of unit is 2-3% pyrite; sericite occurs as angular fragments in matrix of siliceous breccia, chlorite/sericite also occurs as massive replacement; lower contact is sharp at 70° TCA where it passes into another intensely altered rock beneath - from 120.1 – 129.5m the protolith has been completely altered to sericite with lesser chlorite and 5% pyrite occurring as blebs, disseminations and thin bands; locally the pyrite may attain 10% over a few tens of centimeters as at 123.9-124.1m, 125.9-126.1m, and 126.5-126.7m - reasonably strong fabric at 70-80° TCA from 124.0-126.5m - dark green zone from 126.9-127.2m, uncertain whether chloritic alteration or mafic protolith	
129.5 – 131.0m	<u>Feldspar-Phyric Andesitic Volcanic</u> Light green in colour, massive, no fabric, hosts 5% anhedral feldspar xtals ~1mm in diameter; possible intermediate xtal tuff; lower contact sharp at 80° TCA	
131.0 – 142.7m	<u>Pyritized and Altered Volcanics</u> Pyritic and sericitic alteration of various volcanic rocks protoliths unknown, internal units at 131.6-131.9m,	

	131.9-132.1m, and 132.1-133.3m; intense sericite alteration has completely replaced rock locally - soft white clay ? mineral imparting banding to alteration from 131.6 – 132.7m - fabric at 70-80° TCA - pyrite occurs as disseminations and thin bands comprising 3-5% of rock - altered mafic units from 137.3-137.6m and 139.6-139.8m - pyrite chlorite vein at 136.6m - 1cm of fault gouge at 140.1m, orientation of gouge is the same as fabric in rock ie 80-90° TCA - Tulks Hill-like VMS footwall alteration from 139.8-141.5m, light grey colour, 3-5% pyrite as fine disseminations and wispy pyrite veins, fabric orthogonal to core axis - sharp lower contact	
142.7 – 143.9m	<u>Plagiophyric Mafic Volcanic</u> Epidote green in colour, ~20% plagioclase xtals, non-magnetic, non-calcareous, massive, no fabric - lower contact sharp and orthogonal to core axis	
143.9- -151.2m	<u>Altered Mafic Volcanic</u> Fine grained, equigranular, dark green - silica, sericite, pyritic alteration zones from 146.1-146.3m, 147.1-148.0m, 149.0-149.8m; pyrite content varies from 2-10%	
151.2 – 152.4m	<u>Rhyolitic Breccia</u> Light grey, massive, very siliceous, hosts 2-10% disseminated pyrite	
152.4 – 154.2m	<u>Mafic Volcanic</u> Dark green, fine grained equigranular, minor pyrite, lower contact sharp	
154.2 – 175.8m	<u>Pyritized and Altered Volcanics (Bx36-41)</u> What appear to be primarily mafic volcanics are almost entirely sericitized, silicified and pyritized; altered rocks are light grey in colour and have typical VMS footwall alteration appearance, pyrite content varies from 1-5%; pyrite occurs as disseminations and thin wispy bands, strong fabric at 70-80° TCA, local crenulation cleavage - less altered mafic protolith at 167.4-167.8m and 168.7-170.2m, contacts with altered rock are sharp at 70° TCA	
175.8 – 186.5m	<u>Mafic Volcanic</u> Dark green, fabric at 70-80° TCA, hosts ~5% plag xtals, maybe a mafic xtal ash tuff, non-calcareous - sericite alteration from 177.8-178.0m - minor disseminated pyrite - rhyolitic intra-bed from 185.1-185.4m	
186.5 – 188.2m	<u>Rhyolite</u> Light green – pink, fractured, minor pyrite veinlets, lower contact sharp at 80° TCA	

188.2 – 200.2m	<u>Mafic Volcanic</u> Dark green, fine grained, non-magnetic, non-calcareous, possible mafic ash tuff -intense sericite alteration from 190.3-191.0m and over 10cm at 198.0m -zone of deformed quartz veining from 193.6-196.0m -5cm of fault gouge at 193.1m, orthogonal to core axis	
200.2 – 202.1m	<u>Rhyolite</u> Light green in colour, feldspar phyric – 2-3% 1mm anhedral feldspar xtals, fractured	
EOH		