

LATITUDE L23N
DEPARTURE 45+00E
EASTING 531763E
NORTHING 5413368N
ELEVATION 295 metres
DIP AT COLLAR -45⁰
BEARING 140⁰
TOTAL DRIFT 3.0m CORE SIZE NQ
REMARKS

Vinland Resources Limited
DIAMOND DRILL CORE LOG

Sheet No. 1 of 5

Tests Depth	Dip	Magnetic Bearing	Correcting Bearing
100m	-44	161 ⁰	139 ⁰
200m	-43 ⁰	165 ⁰	143 ⁰

Project No. _____ Hole No. SP-04-04
Property Buchans Junction
NTS 12A/15 Grid Name Seal Pond
Date Started Aug 06/04 Date Completed Aug 08/04
Contractor Barker's Construction Limited
Logged By R. M. Graves

DEPTH & LITHOLOGY	DESCRIPTION	REMARKS
0m– 3.0m	Casing	
3.0 – 14.2m	<u>Mafic Crystal Lithic Lapilli Tuff</u> Dark green-epidote green in colour, non-calcareous, massive, no fabric, non-magnetic; hosts 5-10% rounded-angular epidotized lapilli in a plagiophytic ash matrix: hosts 2-3% angular rhyolitic lapilli - disseminated pyrite and bands at 10.2m, 10.4m, 10.9m and 11.6m - lower contact at 60⁰ TCA	
14.2 – 16.4m	<u>Rhyolite</u> Grey, massive, no fabric, very siliceous, near aphanitic matrix, hosts 3-5% anhedral feldspar xtals that are 1mm in diameter, lower contact sharp at 70 ⁰ TCA	
16.4 – 17.8m	<u>Basalt</u> Dark green, fine grained equigranular, non-magnetic, epidote amygdules, lower contact sharp - disseminated pyrite at 17.3m	
17.8 – 19.0m	<u>Mafic Ash Tuff</u> Dark green, weak bedding at 70 ⁰ TCA, non-magnetic, non-calcareous - disseminated pyrite at 17.8 and over 20cm at 18.6m - lower contact sharp at 70⁰ TCA	
19.0 – 22.0m	<u>Mafic Crystal Lithic Lapilli Tuff</u> Same as at 3.0 – 14.2m - hosts amygdaloidal basalt bombs - heavily disseminated pyrite band at 19.6m - lower contact sharp at 60⁰ TCA	
22.0 – 22.6m	<u>Mafic Volcanic</u> Dark green, fine grained equigranular, massive, no fabric, non-calcareous, non-magnetic - disseminated pyrite at 22.3 and 22.5m - flow or ash tuff?	

22.6 – 25.5m	<u>Mafic Crystal Lithic Lapilli Tuff</u> Same as at 3.0 – 14.2m - pyrite as dissemination and thin bands at 22.9m, 23.5m, 24.4m, 24.6m, 24.7m, and 24.8m	
25.5 – 25.8m	<u>Rhyolite</u> Grey-green, strong fabric at 60° TCA - lower contact sharp at 60° TCA	
25.8 – 27.4m	<u>Mafic Ash Lapilli Tuff</u> Dark green, poly lithic, felsic and mafic fragments in a mafic ash matrix, non-magnetic - disseminated pyrite at 26.1m, 26.4m, 26.5m, 26.6m, 26.9m, 27.2m, and 27.3	
27.4 – 33.7m	<u>Rhyolite</u> Grey, massive, no fabric, very siliceous, anastomosing fractures, 1-2% anhedral feldspar xtals that are 1mm in diameter, trace pyrite - lower contact sharp at 70° TCA	
33.7 – 34.2m	<u>Mafic Volcanic</u> Dark green, fine grained equigranular, non-magnetic, non-calcareous, lower contact sharp	
34.2 – 38.6m	<u>Felsic Lapilli Tuff</u> Strange looking rock, looks like pebble breccia; hosts 10-20% white rhyolitic aphyric lapilli from 2mm-10mm in diameter that have a high sphericity, matrix is dark grey and siliceous - lower contact is sharp at 80° TCA	
38.6 – 39.1m	<u>Mafic Volcanic</u> Dark green, fine grained equigranular, hosts 2-3% fine pyrite, bottom 10 cm has incorporated felsic material from unit beneath suggesting younging up the hole	
39.1 – 43.5m	<u>Rhyolite</u> Same as that at 27.4-33.7m except this unit is light grey - bleached locally due to alteration	
43.5 – 69.8m	<u>Felsic/Mafic Ash Lapilli Tuff</u> Dark green, rock comprises 20-30% elongated aphyric felsic fragments in a mafic matrix, numerous xtals and nodules of epidote in matrix; coarse grained in appearance, greater than 50% of clasts are 1-4cm in length; this coarse grained variant ends at 58.2m and grades rapidly into a fine grained tuff of similar lithic composition; from 58.2-63.5m most of the clasts in the finer grained variant are less than 1cm in length, the matrix becomes both felsic and mafic at 57.0m to bottom of unit - heavy disseminations and thin bands of pyrite at 51.4m, 51.9m, 52.9m, 53.1m, and 53.3m - from 63.5-69.8 the unit is coarse grained with a felsic/mafic matrix - an intrabed of rhyolite at 62.3-62.6m, contacts at 80° TCA	

69.8 – 74.8m	<u>Felsic Lapilli Tuff</u> Grey, angular felsic clasts in a predominantly felsic matrix - depositioned fabric at 80° TCA - minor pyrite at 72.3m, 72.5m, 73.2m, and 73.6m - grades rapidly into unit beneath	
74.8 – 75.1m	<u>Felsic Ash Tuff ?</u> Grey, fine grained equigranular, 2-3% finely disseminated pyrite, lower contact orthogonal to core axis	
75.1 – 81.6m	<u>Rhyolitic Rocks</u> Colour varies from grey to light green, generally massive featureless rocks that are very siliceous, host 2-3% anhedral feldspar xtals locally, also have a breccia appearance locally - pyrite veinlets quite common as at 76.0m, 76.3m, 77.4m, 78.5m, 78.8-79.2m, 80.5-80.7m - lower contact sharp	
81.6 – 82.4m	<u>Felsic Lapilli Tuff/Lapilli Stone</u> Grey in colour, coarse (1-3cm) angular felsic fragments in a felsic matrix; 2-5% finely disseminated pyrite throughout - lower contact sharp and orthogonal to core axis	
82.4 – 110.7m	<u>Felsic-Intermediate Fine Ash Crystal Tuff</u> Grey-green in colour, quite siliceous, dominant grain size less than 1mm, feldspar crystals rare; hosts 1-2% fine disseminated pyrite throughout, blebs and veinlets occur locally, weak depositional fabric at 80° TCA - intra-bed of ash lapilli tuff at 93.8-94.5m - 5% pyrite over 3cm at 110.3m - a featureless looking rock overall - lower contact sharp and orthogonal to core axis	
110.7 – 112.2m	<u>Amygdaloidal Basalt</u> Dark green, non-magnetic, hosts 2-3% epidote amygdules	
112.2-115.2m	<u>Felsic Fine Ash Tuff</u> Similar to that seen at 82.4-110.7m with a few intra-beds of lapilli tuff - veins and disseminations occur locally as at 113.2m, 113.5m, 114.3m and 114.9m	
115.2 – 119.1m	<u>Felsic Lapilli Tuff</u> Grey, 30-40% angular felsic lapilli in a predominantly felsic matrix, quite siliceous, fabric at 80° TCA; hosts 1-2% fine disseminated pyrite throughout most of unit, locally pyrite content is 5% - lower contact grades rapidly into unit beneath	

119.1 – 120.0m	<u>Felsic/Intermediate Volcanic</u> Dark green, fine grained, very siliceous, hosts 1-2% fine disseminated pyrite - grades rapidly into unit beneath	
120.0 – 123.8m	<u>Felsic Lapilli Tuff</u> Similar to that at 115.2-119.1m; hosts 1-2% fine disseminated pyrite throughout, a few wispy pyrite veinlets - intrabed of felsic ash tuff at 121.2-121.6m, hosts 2-3% fine disseminated pyrite	
123.8 – 124.4m	<u>Felsic Fine Ash Tuff ?</u> Grey, massive, featureless rock, trace pyrite	
124.4 – 127.0m	<u>Sericite-Silica-Pyrite Alteration</u> Mottled grey in colour, protolith appears to be a felsic lapilli tuff, alteration not overly intense; trace – 2% pyrite, strong fabric at 45 ⁰ TCA, appears to be the location of a fault at 226.5; 5cm of fault gouge at 127.0m	
127.0 – 134.8m	<u>Mafic Volcanic</u> Dark green, fine grained equigranular, non-magnetic, hosts 1-2% chloritic shards, unit may be a mafic ash tuff - trace pyrite with veins and heavy disseminations at 130.1m, 130.4m, 131.1m, 132.0m and 134.0m	
134.8 – 141.5m	<u>Felsic-Intermediate Ash Tuff – Ash Lapilli Tuff</u> Green, weak depositional fabric, hosts 2-3% pyrite throughout and locally 5-10% pyrite in veins and heavy disseminations as at 135.8m, 136.9m, 137.4m, 137.9m, 138.3m, 139.9m, 140.8m - weakly sericitic - strong fabric from 140.6-140.9m at 70 ⁰ TCA	
141.5 – 182.2m	<u>Sericite-Silica-Pyrite Alteration (Bx34-Bx43)</u> Grey to green in colour, protolith completely altered, hosts 3-5% fine disseminated pyrite from 141.5-145.0m - alteration is dominantly sericitic and pyritic with the silica component principally inherited from protolith - strong fabric at 70-80 ⁰ TCA, fault gouge at 144.1m and 144.5m - from 145.0-158.5m unit becomes intensely sericitic and pyrite content drops to 1-2% with much of rock being pyrite free - alteration clearly crosses litho-types - fault gouge from 147.5-148.3m; major fault - from 151.5-160.0m crenulation cleavages are common at 10-30 ⁰ TCA - .5cm thick semi-massive pyrite bands at 150.6m - 1cm thick semi-massive pyrite bands at 156.1m, 162.4m, 163.0m and 163.3m - from 158.5m-182.2m the pyrite content is consistently 2-3% with 5-10% concentrations occurring locally as at 167.5m - 5cm of fault gouge at 165.8m, altitude of fault is 70-80 ⁰ TCA - crenulation cleavage at 168.8m, altitude at 10-20 ⁰ TCA - inclusion rich mafic dyke intrudes alteration zone from 174.7-179.6m, 4cm of fault gouge with altitude 70 ⁰ TCA at 177.3m	

	- lower 1.4 metres of unit is quite siliceous, likely a less sericitic altered protolith - lower contact at 80⁰ TCA, somewhat arbitrary	
182.2 – 190.0m	<u>Intermediate Ash Tuff/Ash Lapilli Tuff</u> Intercalated beds of intermediate ash tuff and intermediate ash lapilli tuff, siliceous fragments in lapilli tuff are stretched and have fabric at 80⁰ TCA, a few mafic clasts; intra-beds are as follows: 182.2 - 184.4m – ash lapilli tuff 184.4 – 184.5m – ash tuff 184.5 – 185.3m – ash lapilli tuff 185.3 – 185.4m – ash tuff 185.4 – 185.7m – ash lapilli tuff 185.7 – 185.9m – ash tuff 185.9 – 186.3m – ash lapilli tuff 186.3 – 187.5m – ash tuff 187.5 – 190.0m – ash lapilli tuff - 5-10cm semi-massive pyrite-chlorite-sericite alteration at 185.1m, 187.3m and 187.8m - trace – 3% pyrite throughout unit - lower contact sharp at 70⁰ TCA	
190.0 – 194.1m	<u>Intermediate Volcanic (?)</u> Dark green, fine grained equigranular, quite siliceous, trace – 1% pyrite hosts a few mafic shards; possible intermediate ash tuff	
194.1 – 195.2m	<u>Poly lithic Ash Lapilli Tuff</u> Dark green hosts 20-30% mafic and felsic clasts forming a fabric at 80⁰ TCA	
195.2 – 195.7m	<u>Intermediate Volcanic</u> Same as at 190.0-194.1m, trace – 2% disseminated pyrite	
195.7 – 208.0m	<u>Poly lithic Ash Lapilli Tuff</u> Same as at 194.1-195.2m, hosts 20-30% felsic and mafic fragments in a predominately mafic matrix - hosts trace – 1% pyrite - pyrite veins at 203.9m, 204.9m and 205.3m; poorly developed 1cm wide pyrite cubes at 206.6m - unit is much more deformed and stretched from 202.0-208.0m, quite banded	
208.0 – 214.6m	<u>Intermediate-Mafic Volcanic</u> Fine grained equigranular, dark green; ash tuff of flow ?	
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