

HOLE #: BJN00-03 Page 1 of 4
Billion Exploration Canada Ltd. / Celtic Minerals Ltd.
Diamond Drill Log

DRILLED BY: Petro Drilling (NQ) **LOCATION:** L-4+00 E 2+72 N **Grid Map Reference:** 12A / 16 **Claim #:** 7402M
Location: UTM NAD 27, Zone 21 538766.94 E, 5417915.74 N (Handheld GPS) **PROPERTY:** Buchans Junction North (Joe Glodes)
DATE COMPLETED: 06/15/00 **DATE LOGGED:** 06/29/00 **TOTAL Meterage:** 178.92 m **AZIMUTH:** 140°
LOGGED BY: Trevor Rice **DATE STARTED:** 06/13/00
Dip of Hole at: Collar -50° → 140° **at:** 169.78 m -47° → 146°
NOTE: Geochemistry sheet added at back / Casing left in hole

FROM	TO	DESCRIPTION
0	4.08 m	Overburden
4.08 m	9.63	Mafic Volcanic Dark green to green – black massive fg mafic volcanic. Weakly to moderately magnetic. - Whispy minor epidote veinlet at 70 – 80 ° to c.a (1-3 mm) - Minor disseminated pyrite (crystal < 0.5mm) Minor stringer pyrite along epidote veinlets. Ocassionally veinlets calcite filled. - Few plag phenocrysts noted (1mm) Lower contact gradtional.
9063	70.43	Mafic Tuff? Light green fg mafic tuff? Volcanic flow. Interval is locally magnetic (weak to moderate) Interval is massive to moderate foliated in appearance. - Cut by numerous epidote/carbonate veinlets. Usually thickness range < 0.5 cm but may be as thick as 1-2 cm. - Occasional epidote blebs (amygdules?) in more massive sections. - Rock has local alternating well foliated (possible fabric) (60 - 70° to c.a.) mafic tuff and fg massive igneous texture mafic volcanic. Epidote alteration more pronounced in tuff. Mineralization - Local trace disseminated pyrite and stringer pyrite. Stringer pyrite associated with epidote/carbonate veining. Stringer usually thin (1-3 mm) but may reach 1-4 cm locally @ 56.17 m - 4 cm sulphide stringer (40-50% sulphides) 90% of which is pyrite and 5 – 10 % chalcopyrite. From 10.11 -12.09 m Light grey massive Rhyolite. Locally plag phyric (1-2 mm) · Trace to 1% disseminated pyrite and along this chloritic fractures. · Both contacts sharp at 70° to c.a.. Increased pyrite mineralization along contacts (up to 5% over 1 cm). Upper contact fragmented and chlorite filled. · Weakly silicified From 12.27 – 12.57, 12.67-13.98m · Rhyolite dykes? Like above · Contact sharp and steep at 45° - 80° to c.a. From 17.87-18.5m · Plag phyric (1-3mm) felsic dyke · Potassic and silica altered · Sharp contact at 50° to 80° respectively From 18.8-21.02 · Rhyolite dyke like above · Trace disseminated py

- Silica, weak sercite altered
- Contact sharp at 70° - 80° to c.a.

From 30.71-32.60

- Rhyolite. Grey -white in colour
- Moderate silica alteration
- Trace to 1% and locally 2% disseminated py

Note: Could mafic unit be intruding felsic body? pyrite mineralization in mafic always increased near contact

From 34.01-36.06m

- Plag phyric dyke like interval. 17.87 – 18.5 local quartz phenos. Trace disseminated pyrite
- Contact sharp at 80° to c.a.

70.43 73.02

Dark grey-brown plag-quartz phyric
Intrusive? Possibly pyroclastic.

- Creamy white subhedral plag (1-32mm) 20% of core
- Abundant quartz clasts (porphyroblast?) (10%) up to 2 cm oblong shaped.
- Interval very siliceous
- Weakly magnetic
- No mineralization
- Upper and lower contact sharp at 80 - 85° to c.a.

73.02 76.41

Light to dark green fg moderately magnetic mafic volcanic

- Minor epidote alteration
- At 76.0m 2.5 pyrite stringer (60% sulphides)
- At 76.06 10 cm laminated magnetite band (~20% magnetite)

76.41 76.92 Unit identical to interval 70.43-73.02 sharp contacts at 70° to c.a.

76.92 77.78 Fg light green mafic tuff. Weak magnetic. Lower contact appears to be graditional

77.78 82.0 Silicified plag, quartz phyric interval like noted at 70.43-73.02m. Lower contact sharp at 80° to c.a.
Cut by moderately magnetic dark grey black fg diabase dyke 78.38-81.21. Trace disseminated pyrite.

82.0 84.1 Well laminated mafic tuff

- Very fine grained
- Contains 10-15% magnetite in thin bands at 45-50° to c.a.
- At 82.7m 4 cm 20% pyrite stringer.
- Lower contact graditional into fg mafic tuff. Upper contact contains calcite blebs.

84.1 178.92 Mafic Volcanic / Tuff
 Variably light to dark green mafic volcanic / tuffaceous package. Locally moderately magnetic.

- Consists of alternating sequences of fg-mg magnetic mafic volcanics and well foliated mafic tuff (60-86 ° to c.a.)
- Epidote alteration pervasive; appears as amygdules (1-3mm rounded to oblong), patchy blebs (with carbonate), and as veinlets (both wispy and parallel to foliation) (fabric)

Mineralization

- Local trace to 1% disseminated pyrite and occasionally py stringer.

From 88.65-89.87m

- Fg mafic dyke. Moderately magnetic

From 112.13-114.85m

Light grey Rhyolite. Plag phyric

- Weak silicification
- Trace disseminated py
- Upper contact gradational
- Lower contact sharp at 25° to c.a.

From 153.4-156.95

- Rhyolite as above trace disseminated py
- Contacts sharp at 80 ° to c.a.

From 175.14-177.82

- Rhyolite

From 175.74-176.23, 176.63-177.82

- Rhyolitic dykes?
- Trace disseminated Py

178.92 End of Hole

[illegible]