

PROJECT: Mary March	COLLAR AZIMUTH: 123.3 °	DRILLED BY: Springdale Forest Resources
LOCATION: Mary March Park Area, Buchans, Nfld; 12A/15	COLLAR DIP: - 49.1°	STARTED: November 20, 2012
MINERAL ZONE: Nancy April	CORE SIZE: NQ	COMPLETED: November 26, 2012
UTM NAD27(gps): 5408585 N; 533659 E Elev.: 213 m	LENGTH OF HOLE: 376.0 metres	CORE STORED: Mary March JV Core facility, Millertown
GRID COOR: L N & E Elev.: m	LOGGED BY: B. Greene	No. of Core Boxes: 92

From	To	Lithology	CODE	Geological Description & Mineralization	Alteration	Structure	Sample No.	From	To	Interval Length (m)	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
0	6	Overburden					273043	242.4	243.63	1.23	42	9	20	0.2	5
6	26.2	Basaltic Volcanics	B	Basaltic pillow lava. Alternating intervals of green and hematitic basalt. Non-magnetic. Roundish to oval calcite filled amygdules to 1cm diameter. Epidote / silica veinlets. Several areas of moderately broken core from 11.0m – 14.1m			273044	248.8	250	1.2	83	19	76	0.2	5
				17.8-18.7m and 21.1 – 23.3m – Heavily flooded with epidote and bright red jasperoid.			273045	250	251.06	1.06	59	17	40	0.2	5
				- Moderately broken core from 20.2 – 21.2m			273046	251.06	252.23	1.17	27	6	35	0.2	5
26.2	32.4	Fault Zone	Fj	Brittle fault zone. Zones of moderately magnetic, fresh looking, late diabase infilling a fault zone. Diabase is very broken with angular wall rock and milky white silica forming a healed fault breccia at 27.6 – 28.0m.			273047	252.23	253.07	0.84	39	13	15	0.5	5
				25.8-32.4m – Very broken rubbly core with lesser more competent area up to 80cm. Mixed green and hematitic fine-grained mafic intrusive throughout this interval.			273048	285.45	286.76	1.31	956	56	142	1.6	35
32.4	39.1	Mafic Intrusive	I	Hematitic, non- amygdular intermediate to mafic intrusive. Local 1-3mm plagioclase phenocrysts.			273049	286.76	287.94	1.18	448	67	61	0.8	19
				Ubiquitous brittle fractures infilled with red jasper veinlets and occasional quartz veinlets. Quartz frequently at 50° to core axis, while jasper is random.			273050	326.38	327.37	0.99	2230	104	317	0.8	11
				35.2-36.4m – very magnetic, fresh diabasic intrusive. Chilled margins at 30° to core axis.			273051 Dup-P				169	319	1212	1.5	45
39.1	47.7	Mafic Volcaniclastic		Screen of mafic volcaniclastic (host to numerous mafic intrusives in this area) tight packed mafic breccia. Bleached light green clasts. Some with reaction rims. Matrix slightly chloritic. In places contains good quench textures (i.e. 40.55m)			273051	327.37	328.89	1.52	169	330	1227	1.6	49

From	To	Lithology	CODE	Geological Description & Mineralization	Alteration	Structure	Sample No.	From	To	Interval Length (m)	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
47.7	66.5	Hematized Basalt		Mottled, hematite red to maroon purple basalt. Very fine grained and non-descript. Brecciated. Lots of broken rubbly core over initial 4.5m with good fault gouge and fault breccias over 10-30 cm intervals.			273052	328.89	330.22	1.33	1957	143	338	0.9	22
				Overall core is fairly broken. Good fault gouge over last meter of interval.			273053	330.22	331.65	1.43	2061	479	818	0.9	11
				Fault zones appear to be at close to 90° to core axis.			273054	331.65	333.08	1.43	37	333	907	1	17
66.5	74.7	Intrusive	I	Mafic to intermediate intrusive with fine black specks.			273055	333.08	334.54	1.46	2127	561	715	1.6	42
				- Distinctive orange brown colour from 69.4 -71.6m and couple of other minor sub-intervals. Locally quite siliceous. Not mineralized.			273056	334.54	335.87	1.33	170	577	1371	1.2	18
				Badly broken core from 68.5-74.5m. Probably a continuation of fault at top of unit.			273057	335.87	337.38	1.51	74	629	1030	1.1	22
				- Locally quite magnetic with pen magnet in bleached diabase i.e. 74.3m.			273058	337.38	338.48	1.1	32	514	841	0.8	18
74.7	200.5	Dacitic Intrusive and Volcanic		Greenish to green-grey dacitic intrusive with distinctive equigranular intrusive texture. Tight packed plagioclase and hornblende forming a salt and pepper type texture in a greenish essentially unaltered matrix. Transitions to a flow gradationally after 100m.			273059	338.48	339.91	1.43	50	262	901	1.1	47
				78.6-78.8m – very fine-grained, steel grey, strongly magnetic diabase with bleached and broken upper contact.			273060	339.91	341.25	1.34	48	65	899	0.5	40
				77-79m – Xenoliths of mafic volcanic some with jasperoid pebbles.			273061 Dup-C				59	127	3100	3	77
				86.2-86.9 – weak milky silica filled shear at 15° to core axis.			273061	341.25	342.22	0.97	56	146	3200	2.8	88
				81.0-130m – Common epidote and silica veinlets (2-4mm) at random orientations overall but many at 45° - 60° to core axis.			273062	346.93	348.29	1.36	1526	5	261	0.9	20
				In general, the rock is relatively unchanged down to about 127m.			273063	348.29	349.52	1.23	572	2	203	0.8	15
				127.8-133.3m – Polyolithic breccias; not tight packed; contains subangular-subrounded clasts of both felsic and mafic volcanic. Most clasts are 1-5cm diameter.			273064	349.52	350.43	0.91	149	2	250	0.2	5
				Transitional basal contact to a hyaloclastic dacitic breccia.											
							273065	350.43	352	1.57	2825	2	182	0.6	16

From	To	Lithology	CODE	Geological Description & Mineralization	Alteration	Structure	Sample No.	From	To	Interval Length (m)	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
200.5	239.4	Basaltic Volcanics	B	133.3-141.4m – Green dacitic flow and weakly developed hyaloclastite. Barely noticeable, tiny plagioclase ± hornblende (Plagioclase more noticeable with handlens). Common tiny voids with silica and epidote infill. Weakly developed silica and epidote veinlets; but becoming more prominent towards base of sub-unit.			273066	STANDARD	CDN-ME-13		28000	15800	177000	794000	129
				141.4-150.9m – Greenish, dacitic hyaloclastic breccia. Well developed pseudo-fragmental textures. This rock is equivalent to the hyaloclastite from 113.8-131.3m in hole MM-12-21. Very distinct epidote green fragments in greyer matrix. Some rotation and rounded fragments as fluid interaction along perlitic cracking and quenching advances – broken upper contact, conformable basal			273067	352	353.5	1.5	274	11	307	0.3	11
				150.9-186.0m – Polyolithic breccia containing tight packed, subangular – subrounded clasts of mafic and felsic volcanic. Similar to sub-unit in hole MM-294-16 from 198.3-217.8m.			273068	353.5	355	1.5	532	144	754	2.5	117
				- Fining upward sequence is evident from 150.9-152.8m where clast size at top is generally less than 1 cm then grades to 6-8 cm towards base of bed (Buchans debris flow analogue). Weak disseminated pyrite (< 1%). Contains green mafic clasts, grey altered pyritic clasts, epidote rich clasts; scoriaceous clasts and dacite clasts. Matrix is siliceous and contains epidote alteration and plagioclase.			273069	355	356.77	1.77	47	98	256	2.2	91
				- From 174-186.0m – several narrow unseparated polyolithic breccias beds and dacite hyaloclastite.			273070	342.22	343.51	1.29	93	21	1211	2.2	51
				186.0-200.5m – moderately hematized, greenish to reddish dacitic volcanic with well developed hyaloclastic breccias textures. Akin to hole 16 from 100.6-127.9m. In places, moderately epidotized. Good fault gouge over last 10cm at basal contact.			273071 Dup-P				113	18	657	0.5	10
				Medium to dark green, weakly sericitic pillow lava. Weakly to non-magnetic. Locally brecciated and quench textured otherwise massive. Calcite filled amygdules mostly concentrated in patches and bands. Amygdules generally 2-5mm.			273071	343.51	344.65	1.14	114	18	656	0.5	9
				- Patchy pink silica and epidote locally i.e. 229.4-230.1m			273072	BLANK	CDN-BL-10		21	2	41	0.2	6

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DIAMOND DRILL HOLE: MM-12-22

PROJECT/PROPERTY	DRILL HOLE REFERENCE		HOLE DEPTH (m)	Magnetic Azimuth (°)	True Azimuth (°)	DIP(°)	MAGNETIC FIELD (nT)
Canstar	MM-12-22		16	143.1	123.2	-49.1	52419
Canstar	MM-12-22		49	142	122.1	-48.7	51507
Canstar	MM-12-22		100	143.3	123.4	-48.4	51566
Canstar	MM-12-22		151	143.6	123.7	-47.1	51594
Canstar	MM-12-22		199	145.6	125.7	-45.6	51652
Canstar	MM-12-22		250	146.9	127	-43.7	51577
Canstar	MM-12-22		301	147	127.1	-41.5	51719
Canstar	MM-12-22		349	148.2	128.3	-38.5	51458
Canstar	MM-12-22		376	148.3	128.4	-37.1	51490

Magnetic Declination Used (corrected to 2012) 19.9° West
Surveyed with Reflex tool.

Litho Samples	Hole.: MM-12-22
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Sample No.	Interval (metres)
4361	11.5
4362	35.4
4363	87.1
4364	136.4
4365	194.3
4366	255.0
4367	273.6
4368	305.8
4369	326.0
4370	358.2
4371	374.5
4372	375.8

Core Box Number	From (metres)	To (Metres)	Length	Core Box Number	From (metres)	To (Metres)	Length	Core Box Number	From (metres)	To (Metres)	Length	Core Box Number	From (metres)	To (Metres)	Length	Core Box Number	From (metres)	To (Metres)	Length
1	6.10	10.10	4.00	21	79.60	83.30	3.70	41	161.70	165.40	3.70	61	244.60	248.80	4.20	81	327.80	332.10	4.30
2	10.10	14.00	3.90	22	83.30	87.40	4.10	42	165.40	169.80	4.40	62	248.80	253.20	4.40	82	332.10	336.40	4.30
3	14.00	17.90	3.90	23	87.40	91.30	3.90	43	169.80	173.80	4.00	63	253.20	257.50	4.30	83	336.40	340.60	4.20
4	17.90	21.60	3.70	24	91.30	95.60	4.30	44	173.80	178.10	4.30	64	257.50	261.60	4.10	84	340.60	345.00	4.40
5	21.60	25.90	4.30	25	95.60	100.00	4.40	45	178.10	182.50	4.40	65	261.60	265.90	4.30	85	345.00	348.70	3.70
6	25.90	29.90	4.00	26	100.00	104.10	4.10	46	182.50	186.30	3.80	66	265.90	270.20	4.30	86	348.70	352.60	3.90
7	29.90	32.20	2.30	27	104.10	108.00	3.90	47	186.30	190.70	4.40	67	270.20	274.50	4.30	87	352.60	356.50	3.90
8	32.20	35.90	3.70	28	108.00	110.90	2.90	48	190.70	194.90	4.20	68	274.50	277.90	3.40	88	356.50	360.60	4.10
9	35.90	39.80	3.90	29	110.90	115.10	4.20	49	194.90	199.20	4.30	69	277.90	281.80	3.90	89	360.60	364.80	4.20
10	39.80	44.10	4.30	30	115.10	119.40	4.30	50	199.20	203.50	4.30	70	281.80	286.00	4.20	90	364.80	369.00	4.20
11	44.10	47.70	3.60	31	119.40	123.40	4.00	51	203.50	207.60	4.10	71	286.00	290.20	4.20	91	369.00	373.30	4.30
12	47.70	51.80	4.10	32	123.40	127.70	4.30	52	207.60	211.90	4.30	72	290.20	293.90	3.70	92	373.30	376.00	2.70
13	51.80	55.80	4.00	33	127.70	132.00	4.30	53	211.90	215.80	3.90	73	293.90	298.10	4.20	93	END OF HOLE		
14	55.80	59.50	3.70	34	132.00	136.20	4.20	54	215.80	220.00	4.20	74	298.10	302.30	4.20	94			0.00
15	59.50	63.30	3.80	35	136.20	140.50	4.30	55	220.00	223.90	3.90	75	302.30	306.60	4.30	95			0.00
16	63.30	65.90	2.60	36	140.50	144.60	4.10	56	223.90	227.60	3.70	76	306.60	310.80	4.20	96			0.00
17	65.90	69.50	3.60	37	144.60	148.80	4.20	57	227.60	231.80	4.20	77	310.80	315.10	4.30	97			0.00
18	69.50	71.60	2.10	38	148.80	152.90	4.10	58	231.80	236.10	4.30	78	315.10	319.20	4.10	98			0.00
19	71.60	75.30	3.70	39	152.90	157.30	4.40	59	236.10	240.30	4.20	79	319.20	323.50	4.30	99			0.00
20	75.30	79.60	4.30	40	157.30	161.70	4.40	60	240.30	244.60	4.30	80	323.50	327.80	4.30	100			0.00