

PROJECT: Mary March					COLLAR AZIMUTH: 130.6°			DRILLED BY: Springdale Forest Resources							
LOCATION: Mary March Park, Buchans, Nfld; 12A/15					COLLAR DIP: - 43.5°			STARTED: January 15, 2013							
MINERAL ZONE: Mary March					CORE SIZE: NQ			COMPLETED: January 20, 2013							
UTM NAD27(gps): 5,408,733 N; 534,448 E; Elev.: 172m					LENGTH OF HOLE: 265 metres			CORE STORED: Mary March JV Core facility, Millertown							
GRID COOR: L N & E Elev.: m					LOGGED BY: B. Greene			No. of Core Boxes: 59							
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	28.4	OB Mafic Volcaniclastic		Overburden			99575	91.8	93.36	1.56	69	19	206	0.7	51
28.4	91.8			Hanging wall mafic volcaniclastics. Moderately epidotized and chloritized. Some clasts are bleached with altered rims. Some clasts have brownish-orange rims becoming brownish orange clasts as alteration progresses (i.e. 36-38 m).			99576	93.36	94.75	1.39	47	88	183	0.8	36
				Matrix is dark green, chloritic and locally scoriaceous. Broken core from top of hole to 30.4m, then good coring. clasts have rounded to elongated 3-4mm calcite amygdules.			99577	118.28	118.86	0.58	647	39	1,894	5	86
				Brownish-orange felsic intrusives with variable colour from orange-brown to medium green to dark greenish-black are associated with broken / blocky core from 48.9-52.7 m. Contains anomalous disseminated pyrite and stringer pyrite.			99578	118.86	119.56	0.7	5,646	142	1,109	12.5	74
				52.7 m to 57.9 m - Brownish-orange, hard, potasically altered(?) felsic intrusive. Bottom 1.6 m becomes medium to dark green. Basal contact is a silica-calcite filled (30° to core axis) shear with gouge. Overall, the intrusive has epidote filled brittle fractures at top that become more silica-calcite filled downhole.			99579	119.56	120.89	1.33	482	32	570	2.7	59
				57.9-64.0 m - mafic volcaniclastic as above. 64.0 m - felsic dyke as 52.7 - 57.9 m . Upper contact sharp at 85° to core axis. Becoming bleached and somewhat brownish-orange toward basal contact. Basal contact at 10-15° to core axis. <i>Note: these intermediate to mafic dykes/sills are late and cut both the Nancy and Mary March Panel.</i> 67.2-69.0 m - Another felsic dyke as above. Upper contact at 85° to core axis. Basal contact at broken core zone. Again, bleached and hard towards basal contact.			99580 99581	120.89 122.36	122.36 123.28	1.47 0.92	1,376 662	106 124	1,910 4,300	3.5 1	83 28

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
91.8	118.8	Altered Mafic Volcaniclastic (Bva?)		69.0 - 89.5 m - Back into host mafic volcanics. Moderate epidote alteration. Mixed silica-epidote veinlets and mixed silica-epidote filled amygdulites.			99582	123.28	123.52	0.24	6,854	572	31,000	3.9	61
				Common epidote altered plagioclase laths. Basal contact is broken core and fault gouge, followed by dark green mafic (diabase?) dyke following faulted contact from 89.5 - 91.8 m.			99583	123.52	124.30	0.78	437	118	7,400	0.8	22
				Light to medium-grey, moderately sericitized-silicified-pyritic mafic volcaniclastic. Top of unit down to 94.8 m contains up to 3 cm wide pyrite stringers and 2-3 % disseminated pyrite. Overall, common voids/amygdulites with silica infill. Minor fault gouge at 94.8m.			99584	124.3	125.22	0.92	934	403	7,100	1.5	65
				-fault gouge at 95.8 m and 97.2, each over 10 cm or so.			99585	125.22	126.61	1.39	272	3,100	8,000	1.5	35
				94.8-118.8 m - moderate to strong sericite-silica-pyrite alteration of mafic volcaniclastic protolith. Common (1-3%) disseminated pyrite and local pyrite stringers. Trace sphalerite locally. Rocks are generally foliated and locally banded tectonically at 40-50° to core axis. Below 118.8 is an arbitrary boundary where alteration persists but base metals start to become more noticeable.			99586	126.61	128.08	1.47	112	708	2,400	1.2	35
118.8	166.9	Mixed Mafic-intrusive rocks and diabase		Moderate sericite-silica-pyrite alteration of mafic intrusive? (diabase) host. Rock is faint greenish-buff (cream coloured) and protolith is uncertain due to alteration but is assumed to be mafic (or Intermediate) (diabase?). Relict silica filled amygdulites locally. May be mixed zone of mafic volcanics and diabase at top of interval. Noticeable chalcopyrite-sphalerite-galena stringers and blebs down to about 140m.			99587	128.08	129.10	1.02	76	216	1,947	1.4	48
				Overall, thousands of ppm base metals with local areas better over narrow (< 1m) intervals. Possibly some barite and silica associated with base metal. Mainly pyritic stringers common from about 140m to about 160m, then pyrite and sphalerite-galena stringers. Sulphides comprise about 3-4% of rock.			99588	170.2	171.47	1.27	237	594	2,700	3.3	93
				158.5 - 159.8m - fault bounded sliver of pyritic siltstone and polythitic breccia. Upper fault contact at 60° to core axis; basal contact somewhat comminuted but appears about 20-30° to core axis.			99589	171.47	172.40	0.93	3,265	1,184	4,100	4.5	58
				166.9m-170.1m - Sheared/faulted zone at 70° to core axis.			99590	172.4	173.39	0.99	3,757	291	54,000	5.4	58

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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
166.9		Dacitic Hyaloclastic Breccia		166.9m-176.5 m - Mixed zone of altered dacite breccia and diabase? Fairly common pyrite and sphalerite-galena stringers and possible some infill/replacement sulphides (i.e. 176.5m).			99591	173.39	174.83	1.44	686	897	1,709	3	45
				176.52-231.9m - Light green, moderately to strongly sericitic-silica altered, hyaloclastically brecciated dacite. Widespread fine leucoxene. Common sphalerite-galena specks and local pyrite and sphalerite-galena stringers. Local areas where base metal stringers and blebs are more focused, have been sampled. 206.3 - 208 m - faulted zone with local gouge.			99592	174.83	175.68	0.85	966	1,001	1,669	4.6	55
				215.88-215.92 m - high grade pb-zn stringer			99593	175.68	176.56	0.88	906	6,700	136,000	13.6	141
				221.59-221.74 m - high grade pb-zn infill/replacement in matrix of hyaloclastic breccia.			99594	176.56	178.17	1.61	164	596	1,540	2.2	26
				231.9-246.9m - Mottled dacitic hyaloclastic breccia with distinct "black chloritic shards" in a light green sericitic matrix. Heterogeneous alteration of lava causes this texture. Lower prevalence of sulphide stringers. Common disseminated leucoxene. this is the same lithology as 176.5-231.9m but texturally different.			99595	178.17	179.17	1	245	1,921	18,000	1.8	28
				246.9-250.7m - Back into hyaloclastically brecciated dacite that is texturally similar to 176.5-231.9m above. Light green moderately sericite-silica-pyrite altered rock.			99596	183.07	185.21	2.14	113	586	1,667	1	13
				247.18-249.18m - sphalerite - galena stringers from few mm's to 1cm are fairly common and comprise about 2-3% of rock.			99597	185.21	186.64	1.43	287	451	1,756	0.8	13
				250.7-265m - Moderately strong chlorite-sericite altered dacitic volcanics. Akin to 231.9-246.9m with mottle texture as a result of black chloritic fragments. More leucocratic sericitic rock between black patches. Local 1-4 cm pyrite stringers/bands from 260-265m. common fine leucoxene.			99598	186.64	187.92	1.28	356	236	1,437	0.8	9
				261.6-262.1m - fault gouge and fault breccia. Upper contact at 45° to core axis, basal contact in broken core.			99599	187.92	188.67	0.75	2,866	1,761	28,000	2.8	17
				END OF HOLE at 265m			99600	188.67	189.98	1.31	245	681	2,088	1	5
							99601	189.98	190.87	0.89	405	246	820	0.9	5
							99602	190.87	192.33	1.46	588	812	1,858	1.2	13
							99603	192.33	192.76	0.43	146	1,124	1,947	1	5
							99604	192.76	193.52	0.76	224	2,600	4,100	1.3	9
							99605	193.52	194.83	1.31	514	2,600	3,300	1.4	6
							99606	194.83	196.39	1.56	214	760	1,553	1	8

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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
							99607	207.67	209.13	1.46	396	2,300	6,200	0.8	55
							99608	209.13	210.45	1.32	841	2,800	9,900	0.8	58
							99609	210.45	211.38	0.93	817	1,198	7,000	2.8	45
							99610	211.38	212.28	0.9	600	2,300	7,000	1	28
							99611	212.28	213.51	1.23	347	290	9,000	0.9	28
							99612	213.51	214.79	1.28	250	1,292	7,000	1.2	38
							99613	214.79	216.16	1.37	1,783	2,300	18,400	1	36
							99614	216.16	217.08	0.92	117	733	1,570	1.3	24
							99615	217.08	218.27	1.19	185	688	2,076	1.2	28
							99616	218.27	219.34	1.07	369	1,487	6,500	1.5	31
							99617	219.34	220.40	1.06	140	887	3,400	1.3	31
							99618	220.40	221.59	1.19	2,155	846	2,400	2.7	95
							99619	221.59	221.74	0.15	18,700	4,200	124,000	22.1	204
							99620	221.74	222.97	1.23	483	1,126	8,200	2.5	54
							99621	222.97	224.33	1.36	166	513	2,400	1	19
							99622	224.33	225.73	1.4	574	494	11,400	1.6	41
							99623	225.73	227.07	1.34	726	195	9,900	1.7	44
				End of Samples			99624	247.18	248.18	1	1,478	55	16,500	1.1	31
							99625	248.18	249.18	1	1,542	53	29,500	1.7	54

DIAMOND DRILL HOLE: MM-13-27

PROJECT/PROPERTY	DRILL HOLE REFERENCE	HOLE DEPTH (m)	Magnetic Azimuth (°)	True Azimuth (°)	DIP(°)	MAGNETIC FIELD (nT)
Canstar	MM-13-27	40	149.4	129.5	-43.1	51580
Canstar	MM-13-27	91	151.6	131.7	-42.5	51350
Canstar	MM-13-27	142	153.2	133.3	-41.9	51309
Canstar	MM-13-27	193	155.3	135.4	-40.9	51321
Canstar	MM-13-27	250	157.5	137.6	-38	51280

Magnetic Declination Used (corrected to 2012): 19.9° West

Surveyed with Reflex tool.

Litho Samples	Hole.: MM-13-27
Sample No.	Interval (metres)
A00172201	96.8
A00172202	133
A00172203	166.6
A00172204	205.1
A00172205	236.9
A00172206	257.9

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	22.00	26.50	4.50	21	103.90	108.20	4.30	41	187.30	191.50	4.20	61			0.00	81			0.00
2	26.50	31.10	4.60	22	108.20	112.30	4.10	42	191.50	195.50	4.00	62			0.00	82			0.00
3	31.10	35.50	4.40	23	112.30	116.50	4.20	43	195.50	199.80	4.30	63			0.00	83			
4	35.50	38.90	3.40	24	116.50	120.80	4.30	44	199.80	204.10	4.30	64			0.00	84			0.00
5	38.90	43.00	4.10	25	120.80	124.80	4.00	45	204.10	208.30	4.20	65			0.00	85			0.00
6	43.00	47.20	4.20	26	124.80	128.90	4.10	46	208.30	212.50	4.20	66			0.00	86			0.00
7	47.20	51.20	4.00	27	128.90	133.10	4.20	47	212.50	216.60	4.10	67			0.00	87			0.00
8	51.20	53.70	2.50	28	133.10	137.40	4.30	48	216.60	220.90	4.30	68			0.00	88			0.00
9	53.70	58.00	4.30	29	137.40	140.90	3.50	49	220.90	225.00	4.10	69			0.00	89			0.00
10	58.00	61.40	3.40	30	140.90	145.20	4.30	50	225.00	229.30	4.30	70			0.00	90			0.00
11	61.40	65.60	4.20	31	145.20	149.20	4.00	51	229.30	233.30	4.00	71			0.00	91			0.00
12	65.60	70.00	4.40	32	149.20	153.00	3.80	52	233.30	237.00	3.70	72			0.00	92			0.00
13	70.00	74.40	4.40	33	153.00	157.30	4.30	53	237.00	241.40	4.40	73			0.00	93			0.00
14	74.40	78.40	4.00	34	157.30	161.60	4.30	54	241.40	245.70	4.30	74			0.00	94			0.00
15	78.40	82.60	4.20	35	161.60	165.90	4.30	55	245.70	250.00	4.30	75			0.00	95			0.00
16	82.60	86.90	4.30	36	165.90	170.20	4.30	56	250.00	254.30	4.30	76			0.00	96			0.00
17	86.90	90.90	4.00	37	170.20	174.40	4.20	57	254.30	258.00	3.70	77			0.00	97			0.00
18	90.90	95.30	4.40	38	174.40	178.80	4.40	58	258.00	262.10	4.10	78			0.00	98			0.00
19	95.30	99.50	4.20	39	178.80	182.90	4.10	59	262.10	265.00	2.90	79			0.00	99			0.00
20	99.50	103.90	4.40	40	182.90	187.30	4.40	60	END OF HOLE			80			0.00	100			0.00