

UTM East: 533713

UTM North: 5408665

Grid East: -116+00

Grid North: 04+50

Elevation : 211m

Dip : -45 deg

Azimuth : 128 deg

Total Depth : 508m

Claim Number: AND Charter

Core Size: NQ

Remarks: No PVC pipe put in the hole

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Corporation of Canada, Limited

DIAMOND DRILL CORE LOG

Project No: 294

Hole No. MM-294-16

Property: Mary March

NTS: 12A/15 Grid Name: MM 1999

Date Started: 02/03/2000 Completed: 15/03/2000

Contractor: Logan

Logged by: JG Thurlow

Depth (m)		Major Rock Description				Minor Rock Description				Assays							
From	To	Code	Lithology	Comments	From	To	Code	Comments	From	To	Sample	Cu %	Pb %	Zn %	Ag ppm	Au ppb	
0.00	6.00	OB	Overburden														
6.00	43.00	B	Basaltic volcanics	Basaltic pillow lava. Generally weakly hematitic, locally more so. Essentially non magnetic (k generally = 0.03, locally 0.12). Hematite better developed toward pillow margins. Relatively thin selvages. Common calcite amygdules, pink to white. Some bands of amygdules. Minor epidote amygdules. Variably broken to 17 metres, reasonably competent core below. Local jasperoidal material between pillows. Trace disseminated pyrite. A number of weak ductile and brittle shears.	16.80	17.10	fj	Fault breccia and broken core									
					29.30	29.50	M	Diabase dykelet, moderately magnetic (k = 1.25). Contacts 45 degrees to core axis.									
					39.30	43.00		Hematitic, non-amygdular, feldspar-phyric mafic(?) lithology, possibly an early intrusive. k = 0.01 - 0.06. Some fragmental textures, possibly hyaloclastic (textures not particularly clear). Fault gouge and minor magnetic diabase at lower contact.									
43.00	51.50	fj	Fault Zone	Brittle fault zone. Zones of broken core and lesser fault gouge interspersed with sections of less deformed material. Most gouge is hematitic, though some seams are dark and contain pyritic, siliceous resistant grains. Host rocks are variable, mainly mafic, locally diabasic, but also include a perlitic-cracked felsic intrusive(?)													
51.50	63.00	I	Intrusive?	Hematitic, non-amygdular, fine-grained, intermediate(?) lithology. Moderately broken core, but not as broken as the fault zone above; some minor shears. Locally common plagioclase phenocrysts. Minor bright red jasperoidal veining. Some greener sections, which seem to be the same lithology, contain common perlitic cracks. Local minor brassy, uninteresting-looking pyrite. Clayey pug, broken core, magnetic diabase and gouge at basal contact.													
63.00	100.60	I	Intrusive/shear zone	Zone of intrusives, shearing and minor screens of host mafic volcanoclastics.	63.00	64.60	Bv	Basaltic volcanoclastics. Scoriaceous fragments, some hematitized and with amygdules. Sharp basal contact.									
					64.60	66.40	I	Perlitic-cracked, intermediate(?) intrusive(?) with brecciated textures. May be a marginal facies if the next subunit. Medium greenish, to reddish in local weak hematitic alteration and veining. Local minor disseminated pyrite and rare trace chalcopyrite.									

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From	To	Code	Lithology	Comments	From	To	Code	Comments	From	To	Sample	Cu %	Pb %	Zn %	Ag ppm	Au ppb
					66.40	70.10	I	Medium greenish intermediate intrusive(?). Fine grained curdled texture with irregular, darker, sericitic 'spots' which tend to contain more noticeable leucoxene. Minor broken core.								
					70.10	73.00	F	Reddish, massive, fine grained, feldsparphyric intrusive rock; somewhat more siliceous than the last unit. Brecciated at upper contact. Some bright red jasperoidal veining. Minor brassy veinlet pyrite.								
					73.00	74.10	M	Late diabase. Irregular upper contact; lower contact chilled 50 degrees to core. k = 1.2 - 1.4.								
					74.10	76.40		Unseparated lithologies similar to units Bv, I and F above. Some bright red jasperoidal veining, some shearing. Mafic volcanoclastic contains minor disseminated chalcopyrite.								
					76.40	77.30	M	Diabasic intrusive. k = 0.9 - 1.3.								
					77.30	80.60	I	Brownish-greenish curdled intermediate intrusive, similar to 66.4-70.1m. Locally brecciated. Very weak hematitic alteration. k = 0.4 - 3.0. Gradational(?) basal contact.								
					80.60	86.30	M	Medium greenish, fine grained gabbro with chlorite after interstitial pyroxene. k = 0.06 - 0.5. Locally sheared 45 degrees to core. Shearing at basal contact.								
					86.30	100.60	I	Reddish to medium greenish, hematitized mafic-intermediate(?) intrusive, locally fractured with epidotic veining. Some lithological variation with elements similar to all units above. k = 0.01 - 0.04. Rare screen of mafic volcanic host rock. Sections with moderate ductile shear. Shearing increases toward basal contact which consists of 30 cm of gritty fault gouge - a significant fault.								

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From	To	Code	Lithology	Comments	From	To	Code	Comments	From	To	Sample	Cu %	Pb %	Zn %	Ag ppm	Au ppb
100.60	227.50	D2	Dacitic volcanics	Dacitic flows, brecciated flows and minor polyolithic breccia. Relatively unaltered.	100.60	127.90	D2	Weakly hematitized, greenish to slightly reddish, dacitic volcanics with common, well-developed, hyaloclastic breccia textures. Essentially 'unaltered.' Common epidote-filled brittle fractures and some patchy, amorphous epidote alteration, sometimes associated with voids. Local fine silica in matrix of some breccias. Some hematite in fractures. Gradational basal contact.								
					127.90	166.00		Greenish, dacitic hyaloclastic breccia. Essentially similar to previous subunit, but this unit is not hematitized. Plagioclase phenocrysts, altered amphibole, fine leucoxene specks. Vague darkened rims on some fragments. Some small voids in clasts. Local weak brittle shear. Some diabasic-textured xenoliths(?). From 146.5m - 159.5m, the unit is characterized by distinctive centimetre-scale silica-epidote 'spots.' Gradational basal contact.								
					166.00	172.70		Harder, brownish-orange felsic volcanic, as seen locally in surface outcrops. Weakly epidotized. Chalcedonic silica in small voids, trace agate. Alignment of voids and colour bands at 60 degrees to core. Cut by diabase (k= 2.0 - 2.6) at 30 degrees to core from 170.3m - 171.2m. Gradational basal contact.								

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Depth (m)		Major Rock Description				Minor Rock Description				Assays							
From	To	Code	Lithology	Comments	From	To	Code	Comments	From	To	Sample	Cu %	Pb %	Zn %	Ag ppm	Au ppb	
					172.70	198.30	D2	Greenish dacitic flow and lesser hyaloclastite, as before. Plagioclase and amphibole phenocrysts. Common small voids. Agate in larger voids. Weak epidotic alteration. Trace disseminated pyrite. At 192m, a small xenolith of silicified, pyritized felsic material contains traces chalcopyrite. Generally more xenoliths below this. Basal contact is abrupt, one piece of core is missing but no sign of shear.									
					198.30	217.80		Polylitic breccia containing tight-packed, subangular-subrounded, clasts of both mafic and felsic volcanics, similar to the previous subunit. Most clasts are equant, 1cm-10cm diameter. Mafic clasts dominate but matrix appears moe felsic. Common scoriaceous clasts, also more massive plagioclase-phyric clasts. Weak epidotic alteration of the matrix is the main alteration. 1% disseminated pyrite, both in clasts and matrix (much more than previous units). Some silicified, pyritized clasts, traces chalcopyrite; at least one well chloritized/pyritized basalt clast, similar to Nancy April footwall. Locally common large, greenish, fresh pyroxene phenocrysts, both in clasts and matrix. 'Conformable', unshered basal contact.									
					217.80	223.40	D2	Massive feldsparphyric dacitic flow, similar to units seen uphole. Brecciated toward the base. Weak, spotty epidote alteration. Solid coring. Basal contact is sharp, a weak 'slip,' probably intrusive.									
					223.40	224.40		Fine grained polylitic volcanoclastic, related to the unit from 198.3m-217.8m. Subround clasts.									

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From	To	Code	Lithology	Comments	From	To	Code	Comments	From	To	Sample	Cu %	Pb %	Zn %	Ag ppm	Au ppb
227.50	272.10	D(a)	Altered & pyritized felsic volcanics	Moderately to strongly altered and pyritized felsic volcanics	224.40	227.50	D2	Massive, medium greenish dacitic intrusive(?), in part hyaloclastically brecciated. 20 cm of strong ductile shear at basal contact, 75 degrees to core.								
					227.50	230.60	D	Moderately sericitized felsic volcanics with 2% disseminated and veinlet pyrite and common minor veinlets and disseminations containing Zn-Pb-Cu; best section is assayed. Some sections with 10%-20% pyrite. Strong shear at basal contact 70-80 degrees to core.	228.20	228.65	294121	0.12	0.09	2.52	3.5	83
					230.60	240.40	D	Distinctive, altered, pyritized, massive, foliated felsic(?) volcanic characterized by distinctive medium greyish colour with purple-pinkish tinges (this unit has been seen in the "fence" - also, it resembles rocks in this hole around 427m). Good solid core. Fine anastomosing texture throughout appears to be caused by foliation wrapping around elongate silica-filled vesicles (which contain much of the pyrite). Medium hardness. 2% fine to medium grained disseminated pyrite, locally 5%-10%. Rare possible trace base metal sulphide. Shearing and silica veining at basal contact.								
					240.40	245.30	D	Medium grey-green, moderately sericitized and pyritized felsic flow. 2% disseminated pyrite, some of which is dull and fine grained. Local traces chalcopyrite. Not as altered or interesting as the subunit above. Coarse leucoxene in host locally. Primary texture is brecciated in part. Localized shearing at variable core angles.								
					245.30	246.70	B	Sheared, pyritized, amygdular mafic unit. 5% fine disseminated pyrite. Rare speck anomalous bright green mica. Foliated 45 to 55 degrees to core axis.								

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From	To	Code	Lithology	Comments	From	To	Code	Comments	From	To	Sample	Cu %	Pb %	Zn %	Ag ppm	Au ppt
					246.70	248.00	fj	Shearing, fault gouge and fault breccia.. Pyritized, silicified and sericitized felsic host rocks. Local trace chalcopyrite.								
					248.00	252.50	D	Variably sericitized, silicified, pyritized felsic volcanics; strong alteration. Streaks of anomalous yellowish-greenish sericite. Variable pyrite content averaging 2%; locally 10%. Fault gouge at basal contact.								
					252.50	256.80	D	Silicified felsic volcanic. Less pyritized than subunit above. Local soft, soapy pyrophyllitic(?) alteration. Less than 1% pyrite. Fault gouge at basal contact.								
					256.80	261.00	D	Distinctive, light grey silicified felsic volcanic - closely associated with Nancy April horizon. Elongate, interstitial darker 'patches' many of which are 'pyrophyllitic.' Siliceous material is quite hard. Disseminations of pyrite (average barely 1%) are particularly associated with the darker phyllosilicate material. Only minor fracture-fill pyrite. Locally friable with incipient gouge. Basal contact appears to be essentially gradational.								

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From	To	Code	Lithology	Comments	From	To	Code	Comments	From	To	Sample	Cu %	Pb %	Zn %	Ag ppm	Au ppb
					261.00	272.10	D	Heterogeneously altered felsic volcanic. Strong, greenish-yellow sericitic alteration in wispy strings surrounding more massive decimetre sections of silica-sericite alteration. Relatively little pyrite (approx 0.5%), despite strong alteration. Common fine specks of a dark, prismatic sub-metallic (or oxidized pyrite or other metallic). Rare streak anomalous bright green mica and a sense that the host rock may be becoming more mafic downward. There are sections of minor fault gouge in the area of the basal contact, but the contact appears to be more of a gradational nature with some ductile shear at 60 degrees to core.								
272.10	444.70	Bva	Altered & mineralized mafic volcanics	Pyritized, sericitized mafic volcanics. Variable alteration, moderate to strong and locally containing significant sections of amygdale-filling sphalerite.	272.10	277.90	B	Dark grey, foliated, strongly pyritized mafic volcanics characterized by tectonically elongate zones of interdigitating melanocratic sericitic-pyritic and leucocratic siliceous alteration. Heavy disseminated fine grained pyrite (10%-15%) is concentrated in the sericite. Traces chalcopyrite(-Zn-Pb) are associated with some of the more siliceous streaks. Gradational basal contact where 'streaky' nature gives way to less deformed breccia.	274.30	276.00	294122	0.14	0.00	0.01	1.2	12
									279.89	280.55	294123	0.19	0.00	0.09	1.1	26
									280.55	282.50	294124	0.02	0.07	0.15	0.9	9
									282.50	284.12	294125	0.05	0.06	0.12	0.6	11
									284.12	285.94	294126	0.02	0.03	0.13	0.5	13
									285.94	287.75	294127	0.07	0.16	0.68	1.3	23
									296.15	297.71	294128	0.01	0.08	0.28	1.0	8
									297.71	299.26	294129	0.02	0.01	0.43	1.2	29
									299.26	300.82	294130	0.06	0.01	1.28	1.1	25
									300.82	302.38	294131	0.03	0.01	0.55	1.1	23

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Dip : -45 deg			Date Started: 02/03/2000 Completed: 15/03/2000	
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From	To	Code	Lithology	Comments	From	To	Code	Comments	From	To	Sample	Cu %	Pb %	Zn %	Ag ppm	Au ppb
					277.90	288.00	Bv	Sericitized, pyritized mafic volcanoclastics, locally weakly chloritized. Moderate alteration with interspersed sericitic and siliceous material. Less pyritic than the unit above, but still with 1% to 5% fine disseminated pyrite. Locally common specks/streaks of chalcopyrite or sphalerite-galena, generally associated with more siliceous patches. Some silica-carbonate-pyrite filled amygdules in clasts. Weak fault at basal contact.	302.38	303.93	294132	0.02	0.02	0.50	1.2	25
									303.93	305.49	294133	0.03	0.01	0.62	1.6	36
									305.49	307.04	294134	0.04	0.01	1.21	1.6	24
									307.04	308.60	294135	0.03	0.02	0.60	1.6	46
									308.60	310.15	294136	0.04	0.00	0.04	1.3	31
									310.15	311.70	294137	0.02	0.00	0.63	0.8	10
									311.70	313.25	294138	0.04	0.00	0.86	1.2	10
									313.25	314.80	294139	0.06	0.00	1.25	1.2	15
									314.80	316.35	294140	0.03	0.00	0.73	1.2	18
					288.00	289.70	Bv	Stratified, altered, mafic volcanic arenite. 2% disseminated pyrite, local traces sphalerite. Bedding 70 degrees to core. Relatively good core recovery.	316.35	317.90	294141	0.04	0.00	1.84	1.0	9
									317.90	319.45	294142	0.04	0.00	1.76	1.0	8
									319.45	321.00	294143	0.05	0.00	1.87	1.8	24

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From	To	Code	Lithology	Comments	From	To	Code	Comments	From	To	Sample	Cu %	Pb %	Zn %	Ag ppm	Au ppb
					289.70	330.00	Bv	Coarser grained, altered, mineralized basaltic volcaniclastic. Common sucrose silica-carbonate-pyrite-filled amygdules. Variable fine disseminated pyrite content with minimum 1%, but locally 20% - 30% over 10cm - 30cm intervals. Local common fine traces sphalerite generally in amygdules, initially not as much as previous units, but becomes more abundant and consistent below 296.15m; much lesser galena-chalcopryrite. Unlike Hole #3, very little of the base metal is present in stringers. Little correlation between pyrite and base metal content. Better coring than subunits below with only minor zones of friable core. Moderate chlorite alteration becomes gradually more prominent with depth; becomes fairly strong below a weak brittle shear which occurs from 308.6m - 308.9m. Below 324m, core quality deteriorates as core becomes moderately broken; from 327.2m - 328.9 is friable, brittly sheared - still well pyritized and altered.	321.00	322.55	294144	0.03	0.00	1.74	1.3	15
									322.55	324.10	294145	0.03	0.00	1.64	1.0	21
									324.10	325.65	294146	0.09	0.00	2.32	1.9	27
									325.65	327.20	294147	0.01	0.01	0.24	1.1	40
									343.75	344.55	294148	0.21	0.17	3.21	3.2	47
									367.24	368.00	294149	0.06	0.41	0.68	2.3	66
									399.70	401.00	294150	0.02	0.03	0.13	2.3	49
									401.00	402.50	294151	0.01	0.02	0.04	1.1	25
									418.00	418.80	294152	0.01	0.11	0.20	5.7	59
									418.80	420.40	294153	0.01	0.09	0.22	5.9	41
									420.40	422.00	294154	0.17	0.08	0.17	3.1	31
									422.00	423.60	294155	0.01	0.05	0.09	3.0	44
									423.60	425.10	294156	0.46	0.05	0.09	6.3	56
					330.00	333.50	D	Sericitized, pyritized, synvolcanic dacitic intrusive. Moderately strong sericite(-silica) alteration with average 2% pyrite. Light greenish and traversed by numerous dark grey alteration selvages adjacent to pyritic stringers. Upper and lower contacts sharp at 45 degrees to core; upper contact characterized by zones of brecciation. Milky silica-filled veinlets and amygdules contain pyrite with minor sphalerite and lesser cpy-gal; entire unit would run 1000 ppm Zn. Moderate shearing 40 degrees to core at basal contact.								

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From	To	Code	Lithology	Comments	From	To	Code	Comments	From	To	Sample	Cu %	Pb %	Zn %	Ag ppm	Au ppb	
					333.50	339.60	Bv	Mafic volcanoclastics. Dark grey/black, moderately to strongly chloritized and pyritized. Common specks or fractures containing sphalerite(-chalcopyrite), but much less abundant than above the felsic unit. Minor silica-pyrite-base metal-barite veinlets. Some clasts with common bright green micas. Knife-sharp, weakly sheared basal contact (40 degrees to core) marks significant change in alteration colour.									
					339.60	364.10	Bv	Light to medium greyish, bleached, sericitized, pyritized mafic volcanoclastics. Abrupt colour contrast to the dark, chloritic rocks above. Moderately strong sericite-silica alteration and with 1%- 2% disseminated pyrite; minor veinlet pyrite. Common traces/veinlets containing sphalerite-chalcopyrite, but overall, less than 1000 ppm Zn. Weakly foliated and with elongate clasts at 45 degrees to core. Minor internal zones of fault gouge (e.g., 351.5m-351.7m) but overall, good solid core. Trace anomalous green phyllosilicate. Local very vague pinkish tinge as in Some fairly scoriaceous material. Abrupt basal contact is weakly sheared.									

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From	To	Code	Lithology	Comments	From	To	Code	Comments	From	To	Sample	Cu %	Pb %	Zn %	Ag ppm	Au ppb
					390.50	394.60	M	Dark grey-black massive late diabase sill injected parallel to foliation at 45 to 55 degrees to core. Cille, unsheared contacts. Variably magnetic from k = 0.03 near margins to 2.5 near centre. From 392.0m - 392.7m is strongly pyritized, sheared, mafic (volcaniclastic?) carrying 5% to 20% fine disseminated pyrite - trace base metal. Pyrite(-chalcopyrite) locally mobilized into fractures in the diabase.								
					394.60	397.70	B	Bleached, light to medium grey, sericitized synvolcanic(?) mafic intrusive - local 'hot rock' bleaching. Moderate sericite-silica alteration with 1% - 3% disseminated pyrite (locally 10%) and traces sphalerite. Some elongate silica-carbonate-filled amygdules.								
					397.70	402.50	SMS	Strongly pyritized mafic volcanic rocks; average 10% - 15% very fine grained pyrite, but only traces sphalerite-barite. Dark grey, fine grained, foliated 45- 50 degrees to core. Strong sericite and locally siliceous alteration (locally with blueish cast). Common specks anomalous green phyllosilicate. Localized calcite amygdules give the impression of a volcaniclastic protolith.								
					402.50	405.40		Altered/pyritized bleached synvolcanic mafic intrusive with lesser late diabase. Less than 1% pyrite, trace sphalerite. Only moderate alteration - less altered than surrounding units.								

UTM East: 533713

UTM North: 5408665

Grid East: -116+00

Grid North: 04+50

Elevation : 211m

Dip : -45 deg

Azimuth : 128 deg

Total Depth : 508m

Remarks: No PVC pipe put in the hole

Claim Number: AND Charter

Core Size: NQ

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Corporation of Canada, Limited
DIAMOND DRILL CORE LOG

Project No: 294

Hole No. MM-294-16

Property: Mary March

NTS: 12A/15 Grid Name: MM 1999

Date Started: 02/03/2000 Completed: 15/03/2000

Contractor: Logan

Logged by: JG Thurlow

Depth (m)		Major Rock Description				Minor Rock Description				Assays						
From	To	Code	Lithology	Comments	From	To	Code	Comments	From	To	Sample	Cu %	Pb %	Zn %	Ag ppm	Au ppb
					405.40	415.80		Various unseparated mafic volcanics; moderately strong sericite (-silica) alteration. Sections of bleached light grey with pinkish tint and others with light-medium greenish sericitic tint. Generally 1% - 2% disseminated pyrite, locally more. Common traces sphalerite, disseminated and in thin fractures. Good solid core. Sharp, unsheared basal contact.								
					415.80	423.60		Darker greyish green, more altered mafic volcanics - strong silica-sericite alteration producing attractive textures. Common traces base metal sulphide, especially in more siliceous, permeable (amygdular) zones.								
					423.60	438.00		More massive, medium grey, altered, silica-amygdular basalt or synvolcanic intrusive. Moderately strong silica-sericite alteration with disseminated pyrite and chalcopyrite-sphalerite in veinlets and amygdules. Good solid coring. Below 434m, chloritic alteration appears and gradually becomes more prominent.								

UTM East: 533713

UTM North: 5408665

Grid East: -116+00

Grid North: 04+50

Elevation : 211m

Dip : -45 deg

Azimuth : 128 deg

Total Depth : 508m

Remarks: No PVC pipe put in the hole

Claim Number: AND Charter

Core Size: NQ

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Project No: 294

Hole No. MM-294-16

Property: Mary March

NTS: 12A/15 Grid Name: MM 1999

Date Started: 02/03/2000 Completed: 15/03/2000

Contractor: Logan

Logged by: JG Thurlow

Depth (m)		Major Rock Description				Minor Rock Description				Assays						
From	To	Code	Lithology	Comments	From	To	Code	Comments	From	To	Sample	Cu %	Pb %	Zn %	Ag ppm	Au ppb
444.70	459.20	Df	Felsic volcanic	Medium greenish grey felsic volcanic, locally brecciated. Weak hydrothermal alteration.	438.00	444.70		Chloritized basalt. Moderately strong chlorite-sericite-silica alteration with 3% - 5% disseminated pyrite and common specks Zn-Cu. The initial 15 cm is 70% medium grained pyrite with fine chalcopyrite (this section is moderately conductive; 1000 ohms across 15 cm of core). Good solid core. Silica-pyrite amygdules. Traces anomalous green phyllosilicate. Base metal mineralization and alteration diminishes somewhat below 443m, but pyritization remains fairly strong. Moderate ductile shearing from 444.2m-444.7m. 2 cm silica-pyrite vein at basal contact has traces base metal.								
					444.70	447.20	Ds	Synvolcanic(?) felsic intrusive(?). Medium greenish, with abundant very fine leucocratic leucoxene-like specks. Lithology is dissected into segments by darker hairline fractures which appear to be weak shear along former quench fractures/flow bands. Sharp basal contact appears to be chilled.								

UTM East: 533713

UTM North: 5408665

Grid East: -116+00

Grid North: 04+50

Elevation : 211m

Dip : -45 deg

Azimuth : 128 deg

Total Depth : 508m

Remarks: No PVC pipe put in the hole

Claim Number: AND Charter

Core Size: NQ

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Corporation of Canada, Limited

DIAMOND DRILL CORE LOG

Project No: 294

Hole No. **MM-294-16**

Property: Mary March

NTS: 12A/15 Grid Name: MM 1999

Date Started: 02/03/2000 Completed: 15/03/2000

Contractor: Logan

Logged by: JG Thurlow

Depth (m)		Major Rock Description			Minor Rock Description			Assays								
From	To	Code	Lithology	Comments	From	To	Code	Comments	From	To	Sample	Cu %	Pb %	Zn %	Ag ppm	Au ppb
466.30	508.00		Felsic volcanics	Felsic volcanics - initially less altered but becoming strongly altered and pyritized.	463.65	466.30	Df(a)	Foliated, strongly sericitized-silicified-pyritized felsic volcanic. Pyrite content varies from 1% to locally 20%. Several internal gouge zones. Gradational basal contact marks decrease in pyrite content and is not sheared.								
					466.30	473.85	Df	Medium greenish, weakly sericitized-silicified felsic volcanic displaying hyaloclastic breccia textures. Much less mineralized and altered than enclosing rocks, but nonetheless "interesting." Clasts are delicately angular, tight packed, more sericitic, melanocratic and contain fine leucoxene; matrix is leucocratic and more siliceous. Pyrite content varies from trace to 2% locally; best developed in the matrix - generally only minor disseminated pyrite. Minor elongate voids. Weak shear at basal contact.								
					473.85	479.00	Df(a)	Altered, pyritized felsic flow with well-developed pseudofragmental textures, local perlitic cracks. Lithologically similar to last subunit but with much stronger mineralization and alteration. Average 1% - 3% disseminated pyrite. Traces sphalerite and chalcopyrite. Weak shear at basal contact.								
					479.00	481.90	Df	Less altered felsic volcanic; resembles 466.3 - 473.85m. Incipient brecciation with some brecciated zones. Medium greenish, weakly silicified and sericitized. Weak shear at basal contact.								