

Canstar Resources Inc.

MM-19-38

Project:	B-MM	Easting (NAD 27):	533831	Azimuth:	132	Core Size:	NQ	Date Started:	17-Jan-19
Drill Hole:	MM-19-38	Northing (NAD 27):	5408524	Dip:	-45	Logged by:	Bob Patey	Date Finished:	26-Jan-19
Location:		Elevation (masl):	210.23	Depth (m):	394	Drill Contractor:			

Downhole Tests: Flexit			
Depth	Dip	Azimuth	Magnetic Field
0	-45	130	
13	-44	133.5	51610
64	-44.1	134	52180
217	-40	135.5	51780
268	-38.3	139.8	51170
319	-36.6	140.1	51900
364	-35.8	140.2	51070

Comments: Casing left in and hole cemented, due to proximity to a water well.

Cansgtar Resources

MM-19-38

Hole_ID	From_m	To_m	Lithology	Lithocode	Description	Alteration	Mineralization
MM-19-38	0	7		OB	Overburden, boulders		
MM-19-38	7.00	13.00	Basalt	B	basalt with ghosty globular clasts. Clasts have qtz amygdules & pl. some hyaloclastic brecciation with a dark matrix (only weak chl alt in matrix		0.5
MM-19-38	13.00	14.00	Basalt	B	polyolithic volcanoclastic. Clast supported 10cm clasts at core 1cm at top and bottom. Some basaltic clasts with pyrite. Dacitic clasts with perlitic fractures and pyrite.		2.0
MM-19-38	14.00	22.22	Basalt	B	basalt with ghosty globular clasts. Clasts have qtz amygdules & pl. some hyaloclastic brecciation with a dark matrix (only weak chl alt in matrix		0.0
MM-19-38	22.22	24.75	Basalt	B	Coarse volcanoclastic cut by lt cream-green veins (qtz-epidote?) at 70-90 TCA otherwise little alt. some clasts with cc-chl zoned amygdules. One fracture with war paint hematite		
MM-19-38	24.75	28.90	Basalt	B	Thick basalt flow with few amygdules, black mafic minz with minor chlorite alt. some pale green veins with associated pinkish alteration. Some fractures with war paint hamatite.	minor chl	
MM-19-38	28.90	30.00	Jasper	Jasper	Jasper. Mainly jasper and grey quartz		
MM-19-38	30.00	31.05	Dacite	D	Light grey dacite, flow banded with sericite calcite alt	ser calcite	
MM-19-38	31.05	32.30	volcanoclastic Dacite	D	thinly layered at 45 TCA. Layering disrupted with larger clasts of flow banded dacite at base. Most is thinly bedded with considerable pyrite (15%)	ser mod	15% py
MM-19-38	32.30	32.45	Dacite	D	yellow altered dacite (yellow alt min is very soft with waxy feel (pyrophyllite) UC is pyrite rich		3.0
MM-19-38	32.45	41.70	Dacite	D	Lavender tinted dacite. "breciated" by strong ser alt patches. Diss py cubes to 3mm Looks like autoclastic flow banded in fresher areas. Some barite (XRF 2% Ba). Considerable fault gouge, 1.2m missig over 3 rod lengthes. LC core is loosly bound gravel with 3-5 cm of qtz veins paralleling the basal contact at 30 TCA	strong ser	5-10% Py
MM-19-38	41.70	42.50	int intrusive	I	lime green massive sill with mod sericite alt. brighter green sections are harder (sil& ser) darker areas softer. Cut by qtz veins 2-5mm at 45 TCA. LC 80 TCA sharp		<1
MM-19-38	42.50	44.50	Dacite	D	curdled dacite texture. Rounded blobs of hard silicified dacite with interstitial dark sericite (15%). Py in sericite 3%, often coarse 3mm. Weak fol'n at 60 TCA LC sharp 30 TCA		3.0
MM-19-38	44.50	45.30	Dacite	D	dark grey with lighter banding and wispy disseminated pyrite fol'n 70 TCA		3.0
MM-19-38	45.30	47.20	Dacite	D	lighter dacite with flattened clastic appearance, dark sericite, light hard porphyritic pieces, green sericitic 'clasts'. Some bright green micas (Ba mica)		
MM-19-38	47.20	48.10	Dacite	D	layered dacite with layers of pale yellow hard sericite-py alt fsp xtl. Darker seracite rich regions with		5.0
MM-19-38	48.10	48.85	Dacite	D	Light grey dacite, flow banded with sericite calcite alt		1.0
MM-19-38	48.85	50.88	Dacite	D	dark clastic finely layered at top, coarser towards middle and base, pyrite strigers in places chalcopryrite and barite in stringers. LC with greenish intrusive sharp		py 15 cp 1
MM-19-38	50.88	58.20	Dacite	D	massive fine graied intermediate intrusive with variable lime sericite silica alt. some hard black areas, UC sharp with thin (cm) muddy fault gouge 70 TCA. LC sharp 70 TCA		tr
MM-19-38	58.16	64.41	Basalt	B	basalt with amygdaloidal mineralization Zn, Cp, flows with some brecciation at top and bottom bulk of rock is med-dark grey with dark soft chl flecks (after mafic mins?) amygdoids up to 1cm with sil and sulphides, brecciated areas have jigsaw fit with dark chloritic matrix which is sometimes sheared and mineralized. mineralization occurs in amygdoids, disseminated in both chlorite and bulk of rock and stringers. cp and sph most common in stringers but does occur in amygdoids.	chl	10.0
MM-19-38	64.41	65.70	diabase	Md	magnetic mafic dyke		nil

Hole_ID	From_m	To_m	Lithology	Lithocode	Description	Alteration	Mineralization
MM-19-38	65.7	85.75	Basalt	B	as above dyke, sph and cp content lesser than above dyke but still there until about 70m. Lesser pyt chl from then and no sp cp or gn.		7.0
MM-19-38	85.75	86.5	Int Sill	I	Lt green intrusive fine grained. Cut by late calcite veins. Cc and qtz veins near contacts UC @ 80TCA, LC rubble.		0.1
MM-19-38	86.5	96.6	Basalt	B	volcaniclastic. Variable components. Light bleached amygdaloidal fragments. Dark amygdaloidal basalt with sulphide bearing amygdoids. Ser Altered fg material, possible pumice frags. Fabric at 45 TCA. Top 2m is broken and has two sections of fg and rubble @ 86.5 & 88m Bright emerald green fleck (Ba mica) at 95.9m.		5.0
MM-19-38	96.8	106.8	felsic	D	thick flow top is med green lightening with depth. To a green yellow tinged cream shade. Py specks common (py poikiloblasts), rare cp with the py. Some thin stringers (ptygmatic) with py & sp in bottom m. Stringers with sph @ 98.3 (photo) bottom has developed some flow banding and has increasing sericite alt. The sill or dyke at 106.8-107.4 has intruded along the flow banded base.		2.0
MM-19-38	106.8	107.4	int sill	I	VFG sill with chill margins. Lt green in colour, contacts at 30 TCA		0.0
MM-19-38	107.4	107.55	felsic flow	D	sericite rich base of felsic flow above		1.0
MM-19-38	107.55	110.7	basalt	B	Bleached mafic flow. Lt grey to creamy yellow. Elongate sil filled amygdules. Some stringers mostly py and qtz, rare cp.		3.0
MM-19-38	110.7	119.85	mafic	M	dark green sill. Fine grained chill margin at top and on felsic screen at 113.05-113.35. Colour darkens towards base to olive., elongate "pipe" amygdules in top 1.5m amygdules filled with calcite. Cut by qtz veins some 2cm some with hard black mineral. screen of banded felsic with strong sericite at 113.05-113.35. UC chilled @ 30 TCA. LC chill margin @ 70 TCA		0.0
MM-19-38	119.85	121.4	felsic	D	volcaniclastic layering at 50 TCA. Mostly fine grained, some 2cm porphyry clasts. Diss py in stringers.		4.0
MM-19-38	121.4	121.7	fault gouge	Flt	gouged contact rock gone all flakey		0.0
MM-19-38	121.7	125.5	Felsic	D	hyaloclastite 2-3mm zoned grains in a darker matrix with minor sericite and. Py-qtz stringers with rare cp. Some domains are not hyaloclastite retain foliated flow text with elongate sericite flakes in a dark grey-brown matrix. LC is fault gouge with 20 cm of rubble.		3.0
MM-19-38	125.5	126.45	felsic	D	VFG Lt grey broken up near base (autoclastic?)		1.0
MM-19-38	126.45	129.9	basalt	B	amygdaloidal flow with fol'n at 40 TCA fol'n defined by comp banding and chlorite flakes. Amygdules filled with qtz, many cc filled with with minor pyt.		3.0
MM-19-38	129.9	131.78	Basalt	B	strong chlorite alt. Large qtz stringer with gn, sp, py, cp. fol'n at 40-50 TCA. 20cm section of rubbly rock, possible washed fault gouge. Strong shearing in sericite and ch bands above rubble section LC sharp 80 TCA.		5.0
MM-19-38	131.78	139.4	mafic sill	M	mafic sill sharp UC. Grey green in colour with light fg chill margins on contacts. Cut by calcite veins at various angles. screens of chloritized basalt volcaniclastic at 135.8-136.25, 138.1-138.45, 138-138.6		0.1
MM-19-38	139.4	184.1	basaltic volcaniclastic.	B	basalt volcaniclastic mostly black and grey peppery textured groundmass. Variable amounts of clasts: 139.4-145.5 chlorite "flakes" common along a foliation @ 62 TCA. Dark grey very fine grained clasts with light xtls and some with pyrite. 41.5m, 43.6, 43.8. felsic sill or clast with sericite alt @ 139.65-139.8m. some sericitic green clasts. Base metal (sp-cp-gn) stringers in -140.5-145.3 and art 172.4. mafic dyke at 164.44-164.75. 174.1-174.6 flow banded felsic fragments.		1.0

Hole_ID	From_m	To_m	Lithology	Lithocode	Description	Alteration	Mineralization
MM-19-38	184.1	187.45	felsic	D	mixed felsic and mafic volcanoclastic layers@45 TCA light sections with py poikiloblasts dark sections with strong chlorite. Some py stringers		3.0
MM-19-38	187.45	189.6	mafic	M	Mafic sill. Med grey		0.0
MM-19-38	189.6	192.3	felsic	D	mixed felsic and mafic volcanoclastic layers@45 TCA light sections with py poikiloblasts dark sections with strong chlorite. Some py stringers		
MM-19-38	192.3	195	mafic	M	Mafic sill. Med grey pyrite stringers.		5.0
MM-19-38	195	196.35	fel	D	mixed felsic and mafic volcanoclastic layers@45 TCA light sections with py poikiloblasts dark sections with strong chlorite. Some py stringers middle 50cm is light strong sil with py stringers.		2.0
MM-19-38	196.35	203.4	mafic flow	M	lt grey mafic flow or sill some layering, light alteration regions defined by curved fractures forming boundaries. Thin Calcite veins throughout (5%vol). Fine disseminated py throughout. LC has large calcite veins at low angle TCA making up 50% of rock. LC is sharp contact of calcite vein with fault gouge at 80 TCA	weak ser, sil	5.0
MM-19-38	203.4	203.6	Dacite	D	starts with 1cm of gouge, then dark strongly foliated grey-green and white disrupted and folded layered rock with ser alt and qtz veins. A shear zone	ser	0.5
MM-19-38	203.6	203.7	mafic	M	10 cm of dark grey py bearing fine grained dyke		3.0
MM-19-38	203.7	203.85		flt	shear zone as as 203.4-204.6	ser	0.5
MM-19-38	203.85	204.58	int	I	sericitized apparent phenocrystic (int flow?) minor diss py	ser	1.0
MM-19-38	204.58	211.15	mafic - intermediate flow	D	grey dominantly fine grained layered throughout, layering angle dominantly 70 TCA some folding of this layering. A few spots of hyaloclastic brecciation. Diss py throughout 1% py, some wispy concentrations of py. Light patches of sericite alt, green chlorite flakes (pheno replacement)	ser	1.0
MM-19-38	211.15	212.8	int sill	I	two light grey sills with lighter chill margins, 10cm dark brownish grey volcanoclastic with dk green chlorite flecks		
MM-19-38	212.8	217.85	Dacite	D	as above dykes at 204.58-211.152. more hyaloclastic brecciation LC gradational		
MM-19-38	217.85	218.12	felsic	D	white felsic with sericite alt apparent layering. Base metal stringers with sph, gn, py	ser	3 sp gn py
MM-19-38	218.12	218.22	sed	Tf	10 cm of fine grained seds with base metal stringer LC sheared with <1cm fault gouge	ser, sil	2 sp py
MM-19-38	218.22	222	m-int	B	grey mafic - int vc with mod ser alt	ser	
MM-19-38	222	223.9	m-int	B	similar to above more varied comp. layers of grey and tan with bright green (ba micas) Striking white vein centered silicification (devitrification?) up to 1cm wide. Fine diss py		1.0
MM-19-38	223.9	225.85	m-int	B	grey mafic flow weak ser alt. LC sharp		0.5
MM-19-38	225.85	226.5	m-int	B	strong ser alt volcanoclastic, flow banded frags with strong ser alt matrix (pure sericite)	ser	1.0
MM-19-38	226.5	230.3	int intrusive	i	hard green alt sill with qtz veins, sil weak ser. Bottom dark coloured and broken up. LC 7cm fault gouge.	ser, sil	0.0
MM-19-38	230.3	233.36	m-int	B	grey mafic flow with weak ser alt. Pseudoclastic texture from domains of diff alteration. Some eongate flakes of chlorite. Base metal stringers. Diss py & trace cp sp	ser sil	4, sp, gn, py
MM-19-38	233.36	234.35	basalt	B	Dark green and black lucoxene specked. Weakly foliated. With little other textures Cc veins on LC and UC. Dyke	chl	0.0
MM-19-38	234.35	236.5	mafic	M	dyke with chill margins some pink calcite		
MM-19-38	236.5	241.2	basalt	B	mafic volcanoclastic, polyolithic at top with scoriaceous basalt and light flow banded fragments, base from 238.3 on is monotonous black basalt with flattened hyaloclastic texture, dark frags and lighter matrix. Minor py throughout, diss and blebs	chl	3.0
MM-19-38	241.2	245.8	basalt	B	volcanoclastic cycle as above, polyolithic above, monotonous below, concentrations of pyrite at 222.4- 222.96	chl	5.0

Hole_ID	From_m	To_m	Lithology	Lithocode	Description	Alteration	Mineralization
MM-19-38	245.8	246.2	mafic intrusive	M	green dyke with chill margins		
MM-19-38	246.2	248.5	mafic volcanoclastic	B	volcanoclastic lack chloritic matrix. Diss py throughout totaling 5%. Fine grained basaltic fragments at top. Some small red jasper grains towards top towards base it picks up fragments of felsic flow below	chl	5.0
MM-19-38	248.5	250.14	felsic flow	D	felsic flow, brecciated top incorporated into overlying volcanoclastic. Glassy with diss py throughout.	sil	4.0
MM-19-38	250.14	252.38	int vc	I	intermediate volcanoclastic. 8% py diss. Sericite alt	ser	8.0
MM-19-38	252.38	252.5	mafic dyke	M	green dyke		
MM-19-38	252.5	254.3	Mafic VC	B	mafic volcanoclastic dark green massive mafic fragments. Chloritic matrix <1% py	chl	0.5
MM-19-38	254.3	255.3		M	mafic sill or flow dark green		
MM-19-38	255.3	256.3	Mafic VC	B	chloritic matrix. Fragmentss of green and grey mafic 2% py	chl	
MM-19-38	256.3	257.8	sheared dacite	D	sheared sericite altered volcanoclastic. Strong green and black streaky sericite alt wrapping around silicified fragments, mafic porphyry. Lower part has a few sections of pink alteration 5cm wide @ 60TCA. Shearing wanes with depth to nil at base of interval	ser, sil	
MM-19-38	257.8	290.85	Dacite	D	dark green mafic flows and sills cut by pale green veins (qtz-epidote?) many small chlorite spots elongated parallel, some jasper specks some patches with amygdules of calcite or quartz. some coarse crystal rich areas. Calcite veins cut bulk of rock and the pale green veins. but are also cut by the pale green veins. LC is sharp. oly a few specks of pyrte found		0.0
MM-19-38	290.85	290.95		D	10 cm of brecciated quartz and calcite veins. with dark matrix which is not all chlorite some is hard, UC 90 TCA LC 45 TCA		
MM-19-38	290.95	297	Dacite	D	mafic flow or sill with varying colours of green brown and black due to alteration. No pale green veins. no pyrite		0.0
MM-19-38	297	299.6	Dacite	D	hyaloclastic flow grey matrix and pale green sericitic "clasts". No py		0.0
MM-19-38	299.6	299.9	Dacite	D	massive green mafic flow with coarse pyrite in jasper at the top		2.0
MM-19-38	299.9	301.52	Dacite	D	green hyaloclastite sericite alt. No py		0.0
MM-19-38	301.52	302.7	Dacite	D	Dacite flow, brecciated top and bottom, hyaloclastic middle, no py or alt		0.0
MM-19-38	302.7	311.95	Basalt	D	minimally altered basalt with pseudoclastic texture, dark green pseudoclasts with lt green matrix.		0.0
MM-19-38	311.95	312.2	Dacite	D	pink alteration of green basalt		0.0
MM-19-38	312.2	313.4	Dacite	D	green-grey pseudoclastic textured Dacite		0.0
MM-19-38	313.4	315.6	Dacite	D	pink alteration on a massive textured Dacite		0.0
MM-19-38	315.6	347.15	Dacite	D	Dacite flows and sills, hyaloclastic pseudoclastic texture with jigsaw fit in flows. Sills are massive and have minor alteration darkening areas centered on fractures. Some light green cross cutting veins as seen above at ?. Some cm scale spots of pink alteration associated with these veins. no amygdules, some mm size chlorite after mafic mins. fine grained to glassy.		0.0
MM-19-38	347.15	349.22	Dacite	D	section with many thick (3-5cm) quartz veins. Making up >30% oc vol. Host is hyaloclastic (fine grained) green dacite, some appears layered, may be top of a sill. Some pink minerals amongst veins (kfsp?) and creamy green (qtz-epidote?) UC 20 TCA, LC 50 TCA		
MM-19-38	349.22	359.45	Dacite	D	flows and sills as above. 351.5 Quratz vein with strong shearing in 10 cm below, some pink alt at 351.23-351.33. 3cm band of jasper with pyrite at 352.66		
MM-19-38	359.45	359.55	Fault Gouge	Flt	Fault gouge, 60 TCA, top is very soft, green dacite/ chety rhyolite contact moderate shear within .5m on either side of gouge		

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MM-19-38	359.55	394	Cherty Rhyolite	Dch	Cherty rhyolite flows (possible sills). With weak green sericite alt. Top 50 cm is foliated parallel to upper contact. Unaltered is pale grey to tan cut by hairline black veins alteration makes green to dark green, altered areas a little softer, not much even where dark green. @ 368.6 m strong green alteration in a volcaniclastic section at the top of a flow. some flow banding pseudoclastic, and perlite textures, no consistent foliation. some late qtz and calcite veins. concentration of pyrite @ 382.7m		