MOR PROPERTY

Grid East	Grid North	Easting	Northing	Elev. (m)	Depth (m)
		662293	6664173	1244	275.23

ZONE: UTM 8

SECTION: 3000 E

HOLE: MOR-10-02

CLAIM: MOR1 YB89971

Contractor: Top Rank Drilling

Drill: JKS 300

Core size: BTW

Casing depth: 3.05 (m) in / out

Drilling dates: June 11 - 18, 2010

Geology logged by: Oliver Fu

TARGET: Geophysical Target

SURVEY

Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	335	-50.0	compass				

SUMMARY

From (m)	To (m)	Interval	Unit	Comments
0.00	3.57	3.57	OVB	
3.57	19.20	15.63	VCL	
19.20	23.20	4.00	OGN	
23.20	33.10	9.90	VCL	
33.10	52.85	19.75	VCL	
52.85	103.78	50.93	MRB	
103.78	114.30	10.52	VCL	
114.30	170.76	56.46	MRB	
170.76	195.68	24.92	QTE	
195.68	215.50	19.82	VCL	
215.50	219.60	4.10	VCL	
219.60	221.05	1.45	QTE	
221.05	226.05	5.00	VCL	
226.05	231.10	5.05	QTE	
231.10	275.23	44.13	VCL	
EOH				

SAMPLES

Numbers: G0557091 to G0557128

Total: 38

Batch: 2 (Samples G0557091 - G0557122)

Batch: 3 (Samples G0557123 - G0557128)

Date Sent: B2: June 21, 2010. B3: June 28, 2010

Certificate:

COMMENTS

The hole did not intersect all the lithologies expected. The volcaniclastic layer hosting sub-massive Py in hole MOR-10-01 was not intersected. Main mineralization was Py>Cp>Mt>Po>Bo and hosted in volcaniclastic layers. Few quartzite layers hosted Py. Mineralization occurs as disseminations and interstitially. Dominant foliation orientation is at 70˚. The mineralization through the IP and gravity anomalies showed trace to moderate Py, and trace Po and Bo. Deformation and chlorite alteration increase with depth.

GEOLOGY LOG

HOLE: MOR-10-02

INTERVAL			SUB-INTERVAL			LITHOLOGY			ALTERATION						STRUCTURE				MINERALS									DETAILED DESCRIPTION
													Other										Other		Other			
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Sericite	Chlorite	Carbonate	Oxidation	Type	Intensity	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Pyrite	Magnetite	Chalcopyrite	Type	Intensity	Type	Intensity	Photo	
0.00	3.57	3.57				OVB																					No recovery
3.57	19.20	15.63				VCL	Pale GN-WH		T	M		M-S	Ep	F	DE												Felsic Meta-Volcaniclastic (VCL) with abundant 1-2mm size Cl veins and FG DI Py. Highly fractured section with abundant rusty surfaces (fracturing increases with depth). Cl crystals become elongate and show evidence of compression.
							DI												F								
							F-M G																				
19.20	23.20	4.00				OGN	Pale GY-GN-WH		W	M		T	Ep	M	DE												Felsic Orthogneiss (OGN). Py is 1mm in size and DI throughout the section.
							DI												W								
							F-M G																				
23.20	33.10	9.90				VCL	Pale GN-WH		T	M		M-S	Ep	F	DE												Felsic Meta-Volcaniclastic with abundant 1-2mm Cl veins and FG DI Py. Highly fractured section with abundant rusty surfaces (fracturing increases with depth). Cl crystals become elongate and show evidence of compression towards the end of the section. Dark brownish, soft, semi-metallic mineral, seen throughout the matrix, altered biotite?
							DI												F								
							F.-M. G.																				
33.10	52.85	19.75				VCL	MD-DK GY-GN		W	M-S	T	T			DE				F		T						Volcaniclastic with DI and IN, EU to subhedral Py (1-10mm) . Section is highly fractured and deformed, both increasing with depth. Evident by abundant carbonate infilling of fractures and higher degree of fracturing and deformation. Sparse lean Qz lenses 1-4cm wide. FO at 70 when observed (otherwise FO is deformed). From 47-52.85m grain size increases from MG to CG. EU to subhedral Bi increases from MG to CG.
							F-M G								FO	70											

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			ALTERATION						STRUCTURE				MINERALS								Photo	DETAILED DESCRIPTION
													Other									Other		Other			
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Sericite	Chlorite	Carbonate	Oxidation	Type	Intensity	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Pyrite	Magnetite	Chalcopyrite	Type	Intensity	Type	Intensity		
52.85	103.78	50.93				MRB	Cloudy WH to YW-WH					T			Qz VN	50											Marble (MRB) interbedded with narrow (7 to 40cm) weakly mineralized Volcaniclastic units. MRB is cloudy white to yellowish-white and has a brecciated appearance (randomly throughout). Appears to have undergone minor hydrothermal alteration (giving it a 'dirty' MRB appearance), weak stockwork observed with 1-4 cm Qz veins. Weakly fractured. MRB also shows some evidence of recrystallization.
			58.11	58.41	0.30	VCL	DI-IN		W	M		T			FO	60			F		W						Volcaniclastic sections within the MRB are weakly to fairly mineralized. Py occurs as whisps, DI and IN with sizes ranging from 1-25mm. Py and Cl crystals are MG to CG. Most appear elongate and show evidence of deformation. Cl crystals resemble quartz-eyes, and are 1-3mm in size. Units show varying amounts of chlorite; zones with increased Cl host more mineralization (Py). Cl surrounds some Py crystals. From 74.67 onwards, 1-2mm light pink, moderately hard, quartz eyes are observed (1-4%). The breaks between MRB and VCL lithologies are
			59.20	59.65	0.45	VCL	DI-IN			M									T-W								
			60.70	60.75	0.05	VCL	DI-IN			M									T-W								
			60.82	60.92	0.10	VCL	DI-IN			M									T-W								
			65.03	65.35	0.32	VCL	DI-IN			M									T-W								
			65.47	65.56	0.09	VCL	DI-IN			M									T-W								
			66.50	66.71	0.21	VCL	DI-IN			M									T-W								
			67.23	67.53	0.30	VCL	DI-IN			M									T-W								
			67.60	67.70	0.10	VCL	DI-IN			M									T-W								
			73.42	73.68	0.26	VCL	DI-IN			M									T-W								
			74.67	75.15	0.48	VCL	DI-IN			M									T-W								
			76.45	78.67	2.22	PCS	DI-IN			M					FO	60			T-W								Pyrite Chlorite Schist (PCS). Cl crystals are MG to CG, subrounded, and resemble quart-eyes.
			80.54	80.89	0.35	VCL	DI-IN			M									M-S								
			84.07	85.30	1.23	VCL	DI-IN			M									T-W								
			86.75	87.00	0.25	QTE			W	M																	Quartzite (QTE) lens.
			88.40	88.57	0.17	VCL	DI-IN			M									M								
			90.75	91.40	0.65	VCL	DI-IN			M									T-W								
			93.40	94.75	1.35	VCL	DI-IN			M									T-W								
			95.06	95.27	0.21	VCL	DI-IN			M									W								
			96.94	97.21	0.27	VCL	DI-IN			M									T-W								
			97.70	97.86	0.16	VCL	DI-IN			M									T-W								
			98.28	99.87	1.59	VCL	DI-IN			M									T-W								
			99.87	99.97	0.10	VCL	DI-IN			M									T-W								
			100.21	101.86	1.65	VCL	DI-IN			M									T-W								
			102.33	102.48	0.15	VCL	DI-IN			M									T-W								
			102.70	102.90	0.20	VCL	DI-IN			M									T-W								
103.78	114.30	10.52				VCL	GY to DK-GY		T-W	T-W	F	W	sil	M					W	W		Po	T				Volcaniclastic. Cl crystals resemble quartz-eyes, subrounded, 1-3mm and elongate in some areas. Py is DI and occurs as whisps, 1-3mm.
							DI-IN																				
							MG																				
114.30	170.76	56.46				MRB	Cloudy WH																				Marble with interbedded volcaniclastic layers. From 120.02m onwards chlorite alteration increases. Weakly sheared along contact boundaries with VCL.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			ALTERATION						STRUCTURE				MINERALS									
													Other									Other		Other			
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Sericite	Chlorite	Carbonate	Oxidation	Type	Intensity	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Pyrite	Magnetite	Chalcopyrite	Type	Intensity	Type	Intensity	Photo	DETAILED DESCRIPTION
			114.85	115.15	0.30	VCL	DK GN-GY		T	W-S	T								T-W	T							Py is DI and occurs as whisps, 1-3mm throughout the VCL layers.
			117.80	118.94	1.14	VCL	F-M G		T	W-S	T								T-W								
			120.02	120.16	0.14	VCL			T	W-S	T								T-W								
			120.23	120.45	0.22	VCL			T	W-S	T								T-W								
			120.60	120.97	0.37	VCL			T	W-S	T								T-W								
			121.17	121.50	0.33	QTE			T	W-S	T								T-W								
			121.50	121.66	0.16	VCL			T	W-S	T								T-W								
			122.10	122.52	0.42	VCL			T	W-S	T								F								
			122.83	123.56	0.73	VCL			T	W-S	T								T-W								
			124.50	124.78	0.28	VCL			T	W-S	T								T-W								
			132.12	132.25	0.13	VCL			T	W-S	T								T-W								
			133.92	134.94	1.02	VCL			T	W-S	T								T-W								
			139.93	140.28	0.35	VCL			T	W-S	T								T-W								
			146.58	146.95	0.37	VCL			T	W-S	T								T-W								
			149.53	149.89	0.36	VCL			T	W-S	T								T-W								
			151.70	152.33	0.63	VCL			T	W-S	T								T-W								
			153.07	153.35	0.28	VCL			T	W-S	T								T-W								
			154.36	154.51	0.15	VCL			T	W-S	T								T-W								
			154.90	156.56	1.66	VCL			T	W-S	T								T-W								
			157.85	158.80	0.95	VCL			T	W-S	T								T-W								
			162.45	164.12	1.67	VCL			T	W-S	T								T-W								
			164.33	164.70	0.37	VCL			T	W-S	T								T-W								
			165.68	166.00	0.32	VCL			T	W-S	T								T-W								
			169.75	169.90	0.15	VCL			T	W-S	T								T-W								
170.76	195.68	24.92				QTE									FO	70-80			T-W								Quartzite interbedded with marble and volcaniclastic bands. FO measured from dark mafic layers in the MRB. Py crystals are blebby and DI. MG to CG mafic-rich bands occur randomly throughout the section. Dark brownish, soft, semi-metallic mineral, seen throughout the matrix, altered biotite?
			176.38	177.22	0.84	MRB	Cloudy WH-YW																				
			177.22	177.37	0.15	VCL				W									T-W								
			178.35	179.57	1.22	VCL				W									T-W								
			182.03	182.46	0.43	VCL				W									M								
			184.90	185.26	0.36	VCL				W									T-W								

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			ALTERATION						STRUCTURE				MINERALS								Photo	DETAILED DESCRIPTION
													Other									Other		Other			
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Sericite	Chlorite	Carbonate	Oxidation	Type	Intensity	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Pyrite	Magnetite	Chalcopyrite	Type	Intensity	Type	Intensity		
195.68	215.50	19.82				VCL	DK GN-GY			M-S		T-W			FO	70						Po	T				Mafic-rich Volcaniclastic with varying amounts Py. Py is DI and IN. Patchy bornite 'splotches' occur on rusty fractured surfaces. Lt pink altered porphyryblasts? Lean QZ lenses 1-2cm. Biotite crystals are MG.
							DI-IN												W-F			Bo	T				
							F-M G																				
215.50	219.60	4.10				VCL	LT-DK GN			S	W		Ep	F-M	FO	70						Po	T				Volcaniclastic with chlorite porphyryblasts. Po is blotchy. Section is mafic-rich (giving the dark green colour). Biotite crystals are MG.
							MC G																				
219.60	221.05	1.45				QTE	WH-GY			T					FO	70											Quartzite with interbedded marble layers.
							FG																				
221.05	226.05	5.00				VCL	DK GN-GY			S	T		Ep	F	FO	70											Volcaniclastic. Py crystals are DI and IN (1-3mm). Mafic-rich. Well developed FO.
							DI-IN												M								
226.05	231.10	5.05				QTE	WH GY																				Quartzite interbedded with marble and volcaniclastic layers. Very fine grain to FG.
			229.63	230.45	0.82	VCL	DK GN			M			Ep	W													Volcaniclastic with chlorite porphyryblasts. Dark brownish, soft, semi-metallic mineral, seen throughout the matrix, altered biotite?
							DI-IN																				
							F-M G																				
231.10	275.23	44.13				VCL	DK GN		W-M	S-I	W		Ep	F	FO	65			T-W	T		Po	W				Volcaniclastic with chlorite porphyryblasts, CG Bi and an altered brownish minerals (biotite?). Some areas show an accumulation of Cl crystals (appears they have settled and accumulated in a narrow zone). Few areas have well developed fabric while most crystal orientation appear 'disorganized.
							DI-IN																				
							M-C G																				
			244.30	248.60	4.30	MRB	WH LT-GY		W																		Marble with dark grey (0.1-1cm) mafic layers.
							FG																				

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			ALTERATION						STRUCTURE				MINERALS							Photo	DETAILED DESCRIPTION
													Other									Other		Other			
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Sericite	Chlorite	Carbonate	Oxidation	Type	Intensity	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Pyrite	Magnetite	Chalcopyrite	Type	Intensity	Type	Intensity		
			253.85	260.50	6.65	MRB	WH LT-GY		W																		Marble with dark grey (0.1-1cm) mafic layers.
EOH																											