MOR PROPERTY

Grid East	Grid North	Easting	Northing	Elev. (m)	Depth (m)
		662303	6664012	1248	168.60

ZONE: UTM 8

SECTION: 3000 E

HOLE: MOR-10-01

CLAIM: MOR3 YB89973

Contractor: Top Rank Drilling

Drill: JKS 300

Core size: BTW

Casing depth: 5.48 (m) in / out

Drilling dates: June 6 - 11, 2010

Geology logged by: Oliver Fu

SURVEY

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

TARGET: Geophysical Target

SUMMARY

From (m)	To (m)	Interval	Unit	Comments
0.00	0.51	0.51	OVB	
0.51	17.14	16.63	TMS	
17.14	24.00	6.86	OGN	
24.00	35.52	11.52	TMS	
35.52	46.60	11.08	OGN	
46.60	63.30	16.70	AND	
63.30	73.75	10.45	PCS	
73.75	77.30	3.55	OGN	
77.30	82.50	5.20	TMS	
82.50	85.10	2.60	OGN	
85.10	93.05	7.95	VCL	
93.05	98.80	5.75	OGN	
98.80	105.70	6.90	PCS	
105.70	108.75	3.05	AND	
108.75	130.25	21.50	TMS	
130.25	159.75	29.50	MRB	
159.75	168.60	8.85	VCL	
EOH				

SAMPLES

Numbers: G0557051 to G0557090

Total: 40

Batch: 1 (G0557051 to G0557086)

Batch: 2 (G0557087 to G0557090)

Date Sent: June 21, 2010

Certificate:

COMMENTS

The hole intersected all of the lithologies expected. Main mineralization was Py>Cp>Mt and hosted in volcaniclastic, tuffaceous metasedimentary, and orthogneissic layers. Sub-massive Py is exclusively hosted in the volcaniclastic layers with accessory Cp, and trace Bo. Py mineralization in the tuffaceous and orthogneissic layers occur as disseminations and interstitially. Andesitic bands host the majority of Mt. Dominant foliation orientation is at 70˚. Driling targets to IP and gravity anomalies were not reached due to drilling problems. Based on foliation angles, the orthogneiss will cut-off the mineralized volcaniclastic layer ~85m before its projected intersection in hole MOR-10-02.

GEOLOGY LOG

HOLE MOR-10-01

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		
0.00	0.51	0.51				OVB																					No recovery
0.51	17.14	16.63				TMS	WH-GN																				Tuffaceous Meta-Sediment (TMS) with narrow bands of orthogneiss. Py crystals are DI (1-2mm). Sparse rusty spotting on fractured surfaces.
			0.51	10.27	9.76		DI								FO	55			W								
							F.M.-G																				
			10.27	14.90	4.63										DE				T								Bands of Orthogneiss (OGN) are 5-40cm wide
			14.90	17.14	2.24		Rusty GN-WH		M	W		M															Highly oxidized on fractured surfaces.
17.14	24.00	6.86				OGN	WH-GN		W	W	T	W			DE												Orthogneiss. Py is DI & IN (whispy in some areas) with subhedral to euhedral crystals (2-10mm). Lighter colour due to an increase in felsic minerals. Sharp lower contact displayed by an increase in chlorite alteration and deformation.
							DI-IN												W								
24.00	35.52	11.52				TMS	DK GN-WH		W	M	W				FO	75			W	T							Tuffaceous Meta-Sediment. FG sections display well developed foliation (of mafics & chlorite minerals). Py is sparse and subhedral (1-10mm). Trace Mt veinlets are 1mm in width and sparse. Few Qz veins (1-3cm) occur along fractured surfaces.
							M.F.-G																				
35.52	46.60	11.08				OGN	DK GN-Rusty-WH		W	M	T	M			FX												Orthogneiss. Intensely fractured section and moderately chloritized. Py is DI & IN, appears to concentrate in chlorite-rich zones, subhedral to euhedral crystals are 1-3cm. Soft, sparse, emerald green mineral occurs along rusty fractures, fuchsite? Abundant rusty patches, fractures and vugs throughout the section.
							DI-IN												F								
							M.G.																				

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		
46.60	63.30	16.70				AND	F.M.-G.																				Andesite (AND) with narrow lenses of TMS. Mt veinlets are 1-2mm thick and speckled throughout the sections (1-2mm subhedral to anhedral crystals). Qz crystals are subrounded, 1-2mm and resembled cloudy white Qz eyes. Sparse 1cm lean Qz veins are scattered. Py is DI.
			46.60	51.35	4.75		LT GY-GN		W	W					FO	70			T	M							
			51.35	58.45	7.10		LT-DK GY		W	W	W	T			DE				W								TMS lens.
															Qz VN	70											
			58.45	63.10	4.65		LT GY-GN		W	W					FO	70			W	W							Andesite
			63.10	63.30	0.20		DK GN-WH			M																	Chloritized TMS. Sharp lower contact displayed by an increase in chlorite alteration (forest green color) and a 15cm band of OGN at the end of the section. Py is concentrated in narrow zones, crystals are 1-2mm in size.
							DI-IN												F								
63.30	73.75	10.45				PCS	LT-DK GY-GN																				Pyritic Chlorite Schist (PCS)
							M.C.-G.																				
			63.30	70.30	7.00		DI-IN		W	M		T			FO	60			M	W		Bo	T				Well developed foliation. Py occurs as DI-IN, subhedral to euhedral crystals are 2-15mm. Sub-MA Py section occurs between 65.69-65.79m with minor Cp and Bo mineralized interstitially. Sparse 1cm lean Qz veins. Minor potassic alteration - K-spar & plag are readily present (plag > k-spar). Weakly magnetized AND section from 67.0-67.1m.

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		
			70.30	73.75	3.45		MD-DK GN		S	M	W	T			DE				M			Cp	T				Increase in metamorphic grade observed by strong seritization. FO still present although underwent deformation. Py crystals show a gradational increase in size from the previous interval and are now 7-11mm in size. Mafics also increase in concentration giving the section a darker GN-BK color. Sharp lower contact shown by loss of Py and increase in felsics; resulting in a lighter color.
															FO	40											
73.75	77.30	3.55				OGN	WH LT-GN		W	W		T			DE												Orthogneiss. Py are DI and subhedral (1-2mm). Sparse rusty spots on fractured surfaces.
							DI																				
							F.M.-G.																				
77.30	82.50	5.20				TMS	GY-GN		W	W		W							T								Tuffaceous Meta-Sediment with narrow OGN lens (@ 79.6-80m). Highly fractured, surfaces are rusty. Poorly developed fabric.
							F.M.-G.																				
82.50	85.10	2.60				OGN	WH LT-GN		W	W	W	T			DE												Orthogneiss. Py crystals are speckled, subhedral to euhedral, 1-3mm and appear to concentrate in chlorite-rich zones. Sparse lean Qz zones are 1-2cm wide.
							DI												M								
							F.M.-G.																				
85.10	93.05	7.95				VCL	GY			W					FO	80											Volcaniclastic (VCL) with sub-MA Py zones and narrow bands of OGN. Sub-MA Py appears speckled, and occurs in narrow bands 5-15cm. Py veins are also observed and are 1-2mm wide. Cp whisps and subhedral crystals occur alongside and interstitially in sub-MA Py zones. Mafics and chlorite also appear speckled, and show evidence of deformed FO.
							Sub-MA												50-60 %	F							
							M.G.																				
			87.70	88.50	0.80	OGN	WH LT-		W	W	T				DE				W		T						Orthogneiss. Numerous empty vugs 5-15mm wide.

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		
			88.90	89.50	0.60	OGN	DI								DE				W		T						
							F.M.-G.																				
93.05	98.80	5.75				OGN	WH-GN		W	F	T				DE				W		T						Orthogneiss with narrow bands of sub-MA Py. Sub-MA Py sections concentrate in vuggy chlorite altered zones. Cp occurs alongside Py interstitially or as whips. Py and Cp zones occur in the following intervals: 96.57-96.77m, 97.15-97.32m,97.55-97.75m, 98.2-98.33m, 98.5-98.7m.
							F.M.-G.																				
98.80	105.70	6.90				PCS	WH FY-FN		T	W		T			FO	80			W								Pyritic Chlorite Schist. Well developed FO, although some areas do indicate deformation. Few rusty surfaces along fractures.
							F.M.-G.																				
105.70	108.75	3.05				AND	LT GY			W	T	T			FO	70											Andesite. Sharp lower contact. Mt crystals are subhedral and 1mm in size. Lean Qz veins are sparse and 1-3cm wide.
							F.G.																				
							DI																				
108.75	130.25	21.50				TMS	LT-DK GN-GY		T	W		T			QZ VN	70											Tuffaceous Meta Sediment. Py crystals are euhedral to anhedral and elongate (showing some evidence of strain). Silicification gradually increases towards the end of the unit. Lean Qz lenses increase in size from 1cm to 8cm. Narrow bands of OGN are sparse within the unit. From 124 to 129.9m deformation and alteration is evident with abundant fracturing and increasing number of stringers.
							DI												W								
							F.M.-G.																				

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									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	
130.25	159.75	29.50				MRB	Cloudy WH			W					FO	30											Marble (MRB) interbedded with chlorite-rich volcaniclastic layers. MRB varies in color from cloudy white ('clean') to yellowish white ('dirtier' in appearance) with blotchy irregular shaped & brecciated chlorite/mafic lenses. Scattered (& infrequent) Cl-rich VCL sections are 8 to 20cm wide, they host euhedral DI Py crystals (0.1-0.5mm). Note: Shallow FO measurements were taken in the top half of the unit, and FO of 70 deg was taken in the bottom half of the unit (which corresponds to the main FO seen in this hole and hole MOR-08-07).
							F.G								FO	40											
							XL								FO	70											
															FO	70											
159.75	168.60	8.85				VCL	GY-GN		W	M-S	W				FO	70						Ga	T				Volcaniclastic with moderate Py mineralization. Cl crystals are subrounded, 1-25mm wide and resemble quartz-eyes. Py occurs as FG DI, whisps, and blebs (1-10mm) on fractured surfaces; occasionally with Cp as an accessory. Euhedral 1mm cubic with rusty borders, metallic, mineral Ga? occurs in trace amounts. Light pink, subrounded, moderately soft mineral, 1-3mm wide, and resembles a quartz-eye.
							F.M-G.								FO	60											
							DI												M								
EOH																											