PROJECT MOR

PROPERTY: MOR

HOLE: MR-07-01

Easting	Northing	Elev.	Depth (m)
661918	6663933	1308	172.82

Contractor: TOP Rank Diamond Drilling Ltd.
Drill: JKS-300

SURVEY

Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	358	60	Brunton				
63.1	358	53	Acid				
124.05	358	51	Acid				
172.82	358	49	Acid				

Core size: BTW
Casing depth: (m) in/out

Drilling dates: July 1 - July 3, 2007

Logged by: Martin Nunez

Target: Collared on Section 2600E 100m south of MOR-04-02

SUMMARY

From (m)	To (m)	Interval	Unit	Coments
0	80.41	80.41	GNE	Mixed gnessic meta sediments
80.41	83.39	2.98	MXSX	Horizon A
83.39	87.84	4.45	QCS	Quartz chlorite schist
87.84	91.85	4.01	MXSX	Horizon B
91.85	104.33	12.48	QCS/GNE	Interbedded meta seds and volcanics
104.33	105.28	0.95	MXSX	Horizon C
105.28	172.82	67.54	MIXED	Interbedded meta seds and volcanics

SAMPLES

Numbers: C448601-C448625

Total: 25
Date sent: July 17, 2007

COMMENTS

PROPERTY: MOR **HOLE:** MR-07-01

Struct. Type	Struct. Attitude	LITHOLOGY From (m)	LITHOLOGY To (m)	LITHOLOGY Interval (m)	LITHOLOGY Type	LITHOLOGY Unit	LITHOLOGY Texture	LITHOLOGY Modifier	Notes:	ALT.	MINERALS	SAMPLES From (m)	SAMPLES To (m)	SAMPLES Interval (m)	SAMPLES Sample	Blocks From (m)	Blocks To (m)	Blocks Intvl. (m)	GEOTECHNICAL REC (m)	GEOTECHNICAL REC Percent	GEOTECHNICAL RQD (m)	GEOTECHNICAL RQD Percent	GEOTECHNICAL Weathering	GEOTECHNICAL Hardness	JOINTS Frequency	JOINTS Attitude	JOINTS Shape	JOINTS Roughness	JOINTS Infilling
		0.00	17.96	17.96		AND			Gn interbedded AND with stretched Hb							0.00	3.05	3.05	1.49	49	0.00	0							
									and local sections of interbanded Chl							3.05	5.18	2.13	1.65	77	0.26	12							
FO	72								Gneiss; unit is competent and CAL							5.18	6.87	1.69	1.64	97	0.95	56							
																6.87	8.23	1.36	1.32	97	0.93	68							
									8.23-8.86							8.23	11.28	3.05	3.04	100	1.76	58							
									Crenulated QChl MSCA with BLEBs of Cal							11.28	12.56	1.28	1.26	98	0.86	67							
									Occ. Trace inter LA rhombs of PY							12.56	14.33	1.77	1.74	98	1.09	62							
C	70								Local 4cm badns of WH RHYCHT with sharp HWFW contacts.							14.33	17.37	3.04	3.02	99	2.15	71							
									Unit is speckeled with CY alted FD spars							17.37	17.54	0.57	0.56	98	0.48	84							
																17.94	20.42	2.48	2.46	99	2.30	93							
FO	65	17.96	19.61	1.65		GNE			Chl alt pale Gn Gy GNE with 200m interbanded and unit bears trace rhombs of PY.							20.42	23.47	3.05	2.70	89	2.13	70							
																23.47	24.01	0.54	0.49	91	0.43	80							
FO	63	19.61	23.78	4.17		AND			GN Calcareous Chl ALT with local thinly interbanded Qz.							24.01	26.52	2.51	2.28	91	2.05	82							
																26.52	29.57	3.05	3.05	100	2.76	90							
FO	68	23.78	30.91	7.13		GNE			W Chl ALT speckeled with scw ALT Fd spars; GY Gn Va tuff?							29.57	29.87	0.30	0.30	100	0.20	67							
																29.87	32.61	2.74	2.74	100	1.87	68							
		30.91	32.61	1.70		AND			AND; lighter Gn Chl ALT no sx; closely interbanded with GNE.							32.61	35.56	2.95	2.95	100	2.17	74							
																35.56	35.66	0.10	0.10	100	0.10	100							
FO	66	32.61	35.08	2.47		AND			Gn; becoming more LA and schistose? Possible trans from GNE to AND; calcareous bands still common; V.F.G. contact FW and HW gradational							35.66	38.71	3.05	3.05	100	2.98	98							
																38.71	41.30	2.59	2.59	100	2.36	91							
		35.08	49.76	14.68		TUFF		GN	Gn GY fel. Vol tuff; matrix Gy + Mu; lapilli of ChlALT Mu; unit grades into and out of Qmcs; fait to mod. Cal; occ. Bl of Py assoc. with cal filled Fr ; Pys C +recrystallized AND also oocurs as coarse grains with Chl Py is t-tw							41.30	41.76	0.46	0.46	100	0.46	100							
FO	72															41.76	44.81	3.05	3.05	100	2.88	94							
																44.81	47.25	2.44	2.44	100	2.31	95							
		49.76	52.63	2.87		TUFF			Gy Ma sedimentary cycle? TUFF; well LA with sharp contacts; occ. D. Gy MS + LA ; occ interbedded bands of GNE.							47.25	47.85	0.60	0.60	100	0.56	93							
LA	67															47.85	50.90	3.05	3.05	100	2.79	91							
FO	52															50.90	53.11	2.21	2.21	100	2.11	95							
																53.11	53.95	0.84	0.84	100	0.84	100							
C	85	52.63	57.18	4.55		TUFF		GN	Interbedded TUFF and GNE Gy Chl Gne and Gy DR GY or TUFF; sharp contacts; GNE Fo bear thin flecks of t-Py							53.95	57.00	3.05	3.03	99	2.76	90							
FO	76															57.00	59.11	2.11	2.06	98	0.72	34							
																59.11	60.05	0.94	0.92	98	0.78	83							
		52.18	58.61	6.43		QMBC	SC	PK	QMBC schist ; DK Gy ; Fo bear flecks of Py in trace to tW amounts; wear Chl/ser ALT							60.05	63.09	3.04	3.04	100	2.27	75							
								GN								63.09	64.84	1.75	1.75	100	0.99	57							

PROPERTY: MOR **HOLE:** MR-07-01

Struct.		LITHOLOGY								ALT.			MINERALS			SAMPLES							Blocks			GEOTECHNICAL						JOINTS					
																										REC		RQD									
Type	Attitude	From (m)	To (m)	Interval (m)	Type	Unit	Texture	Modifier	Notes:							From (m)	To (m)	Interval (m)	Sample				From (m)	To (m)	Intvl. (m)	(m)	Percent	(m)	Percent	Weathering	Hardness	Frequency	Attitude	Shape	Roughness	Infilling	
FO	75																						64.84	66.14	1.30	1.30	100	1.30	100							
																							66.14	69.19	3.05	3.05	100	2.61	86							
C	80	58.61	62.80	4.19		GNE			contact zone from 57.93-59.11 oxided + Fr but contact sharp from frags; oxided drags bear LGST Bl of PY; Fo 40 to c/a Gy felsic TUFF and Chl + SER + Mu + Bl bands														69.19	70.59	1.40	1.40	100	1.22	87							
																							70.59	72.24	1.65	1.65	100	1.39	84							
FO	40																						72.24	75.29	3.05	3.05	100	2.59	85							
																							75.29	76.48	1.19	1.18	99	0.99	83							
FO	75	62.80	70.59	7.79		QMBC			TUFF - QMBC schist ; DR Gy closely FO QMBC schist + GNBy unit orhdes in + out with occ. FR. Fillings of cal. ; coarse Py on FO tw-w ; banded TUFF is W calcereous; schist calcereous only along FR fill														76.48	78.33	1.85	1.84	99	1.65	90							
									69.83-70.59														78.33	81.38	3.05	3.05	100	3.05	100							
									banded Gy TUFF ICHt SER +- Qz														81.38	82.36	0.98	0.98	100	0.94	96							
																							82.36	84.43	2.07	2.07	100	1.73	84							
LA	73	70.59	72.24	1.65		QMBC			70.59-							70.41	72.56		C448601				84.43	87.48	3.05	3.03	99	2.68	88							
									unit is DR GN Chl Mu schist with no change in inlet unit is fairly amorphous														87.48	88.22	0.74	0.74	100	0.51	69							
									72.24														88.22	90.53	2.31	2.31	100	1.92	83							
									unit is f-m with rhombs of Py occurring with dariler GN Chl bands occ. Minor Bl of PO assoc. with Py														90.53	93.57	3.04	3.04	100	2.53	83							
																							93.57	94.10	0.53	0.53	100	0.33	62							
		72.24	81.70	9.46					80.40 - 81.70							72.56	75.27		C448602				94.10	96.62	2.51	2.49	99	1.98	79							
									semi massive to intense coarse Py occurring within interbanded TUFF ; 65 Py 20 PO 15CP Py is coarse ; CP is 2nd alter PO ; with occ VTS of cal														96.62	99.67	3.05	3.05	100	2.34	77							
																75.27	77.58		C448603				99.67	99.97	0.30	0.30	100	0.12	40							
		81.70	83.46	1.76		TUFF			Gy SER + Chl banded fel. TUFF with BL of CP occurring of SER La							77.58	80.41		C448604				99.97	102.72	2.75	2.75	100	2.52	92							
LA	80															80.41	81.69		C448605				102.72	105.65	2.93	2.93	100	2.46	84							
																81.69	83.39		C448606				105.65	105.77	0.12	0.12	100	0.00	0							
C	63	83.46	85.99	2.53		QMBC			Folded intensely; interbedded with AM BL of Cal							83.39	86.69		C448607				105.77	108.81	3.04	3.04	100	2.69	88							
																							108.81	111.18	2.37	2.37	100	1.99	84							
		85.99	87.83	1.84		TUFF		GN	Banded Gneissic felsic TUFF with Chl ALT Cy occurring on parting surfaces ; unit occ. Strongly folded near Cy partings							86.69	87.84		C448608				111.18	111.86	0.68	0.68	100	0.00	0							
FO	60																						111.86	114.91	3.05	3.05	100	2.13	70							
																							114.91	116.53	1.62	1.65	102	1.12	69							
		87.83	89.27	1.44		TUF			MxSx 30% F.G. CP 70% Py. Py occurs as coarse clasts with CP is F.G. occurring with PY as amorphous BL ; host is F.G. (SERTUF) banded with clasts of SU Qz.							87.84	90.43		C448609				116.53	117.96	1.43	1.46	102	0.17	12							
						MXSX																	117.96	121.01	3.05	3.12	102	0.35	11							
BD	82																						121.01	122.21	1.20	1.20	100	0.49	41							
																							122.21	124.05	1.84	1.83	99	1.46	79							

PROPERTY: MOR **HOLE:** MR-07-01

Struct. Type	Struct. Attitude	LITHOLOGY From (m)	To (m)	Interval (m)	Type	Unit	Texture	Modifier	Notes:	ALT.	MINERALS	SAMPLES From (m)	To (m)	Interval (m)	Sample	Blocks From (m)	To (m)	Intvl. (m)	GEOTECHNICAL REC (m)	REC Percent	RQD (m)	RQD Percent	Weathering	Hardness	JOINTS Frequency	Attitude	Shape	Roughness	Infilling
		89.27	95.58	6.31		TUF		GN	Felsic vol. TUFF + W. Chl ALT lapilli occ. Qz vts + occ. T grains of Py			90.43	91.29		C448610	124.05	127.10	3.05	3.05	100	2.24	73								
								NE				91.29	91.85		C448611	127.10	127.76	0.66	0.65	98	0.30	45								
FO	85							LP					BLANK		C448612	127.76	130.15	2.39	2.34	98	1.94	81								
												91.85	95.60		C448613	130.15	133.20	3.05	3.02	99	2.40	79								
		95.58	98.06	2.48		QMBC			DR GN Ma Chl QMB sc ; very calcareous			95.60	98.20		C448614	133.20	133.26	0.06	0.06	100	0.00	0								
																133.26	136.25	2.99	2.99	100	0.90	30								
		98.06	104.13	6.07		TUF		GN	felsic lapilli TUF with runs of DU GN Chl ALT ; occ. Partings where TUFF has been gouged			98.20	101.52		C448615	136.25	138.69	2.44	2.44	100	2.31	95								
BD	85											101.52	104.33		C448616	138.69	139.29	0.60	0.60	100	0.58	97								
												104.33	105.28		C448617	139.29	142.34	3.05	3.03	99	2.56	84								
		104.13	105.13	1.00		QCS			semi MxSx Py/Po/Cp 50/30/20 Py is same above ; host is TUF with in QCS (contact transition)							142.34	144.36	2.02	2.00	99	2.00	99								
FO	74															144.36	145.39	1.03	1.03	100	0.90	87								
																145.39	148.44	3.05	3.05	100	3.05	100								
		105.13	110.87	5.74		QCS			speckled QCS with diss flecks of magnetite; Mu on parting surfaces			105.28	106.57		C448618	148.44	149.94	1.50	1.50	100	1.50	100								
FO	75											106.57	107.61		C448619	149.94	151.49	1.55	1.55	100	1.48	95								
												107.61	110.26		C448620	151.49	154.53	3.04	3.04	100	2.94	97								
		110.87	113.95	3.08		GNE			F.G. banded GNE (GNTUFF?) unit gradesinto Dk GN QCS			110.26	110.82		C448621	154.53	155.81	1.28	1.28	100	1.28	100								
FO	80											110.82	113.06		C448622	155.81	157.58	1.77	1.77	100	1.77	100								
												113.06	113.93		C448623	157.58	160.63	3.05	3.02	99	2.61	86								
FO	75	113.95	115.18	1.23		QCS			DK GN with weak flecks of Py; Py is coarse.			113.93	115.97		C448624	160.63	161.67	1.04	1.03	99	0.76	73								
																161.67	163.68	2.01	1.98	99	1.83	91								
		115.18	133.76	18.58		GNE			Gy with Cy on parting surfaces and SPAL? ; red min ; Mu cal on fleck in Gy felsic matrix ; hem ALT ; unit has miloly pinic tinge.			115.97	117.96		C448625	163.68	166.73	3.05	2.96	97	2.23	73								
									127.10 -							166.73	167.44	0.71	0.70	99	0.70	99								
FO	78								unit undergoes yellow SAU alteration and becomes locally Qz flooded with bull Qz ; Fw contact CY ALT							167.44	169.77	2.33	2.30	99	2.18	94								
C	65															169.77	172.82	3.05	2.62	86	2.62	86								
																EOH														
		133.78	144.91	11.13		QCS			intermixed QCS + meta sediments																					
						M.SED																								
BD	60																													
		144.91	166.41	21.50					Intermixed Qtz phyric schist DK Gy to BK calcareous Chl Qtz schist																					
CO	78								148.19-152.01																					
									unit bears 40% opalescent Qz eyes																					
									unit bears vol. Fragm. Appearance.																					
									152.01 - 152.21 20cm Qz Id with 15% CPY occurring H to interstices . Tarer closer																					
		166.41							HW contact chalt with gorge but sharp 75degrees																					

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Struct.		LITHOLOGY								ALT.			MINERALS			SAMPLES							Blocks			GEOTECHNICAL						JOINTS					
																										REC		RQD									
Type	Attitude	From (m)	To (m)	Interval (m)	Type	Unit	Texture	Modifier	Notes:							From (m)	To (m)	Interval (m)	Sample				From (m)	To (m)	Intvl. (m)	(m)	Percent	(m)	Percent	Weathering	Hardness	Frequency	Attitude	Shape	Roughness	Infilling	
		166.41	EOH - 567 '						opalescent seds 64 degrees to C/A																												