

NiMo PROJECT

PROPERTY: EL

HOLE: EL07-16

<u>Easting</u>	<u>Northing</u>	<u>Elev.</u>	<u>Depth (m)</u>
467090	7302639		149.35

Contractor: North Star
Drill: MD-001

[illegible]

Core size: BTW
Casing depth: 17.37 (m) out

Drilling dates: July 1 to 4, 2007

Logged by: D. MacDonald

Target: NiMo horizon, east of EL07-15

[illegible]

SAMPLES
Numbers: C385490 - C385505
Total: 16
Date sent: July 16, 2007

COMMENTS	

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Struct.		LITHOLOGY							Notes:	ALT.		MINERALS				SAMPLES						Blocks			GEOTECHNICAL						JOINTS							
		From (m)	To (m)	Interval (m)	Type	Unit	Texture	Modifier				Ca	Sx	Gy	Fe	From (m)	To (m)	Interval (m)	Sample	Ni (ppm)	Zn (ppm)	Mo (ppm)	From (m)	To (m)	Intvl. (m)		REC		RQD		Weathering	Hardness	Frequency	Attitude	Shape	Roughness	Infilling	
BD	80	50.03	50.06	0.03	SHL	NIMO	Bt	BK	NiMo Horizon Thin, wavy laminar vfg gold-bronze sulfides in BK SHL host; mild-to-moderate bioturbation; strong H2S smell even without HCl; very sharp (<1 mm) contacts at top and bottom of NiMo unit.	w			+			50.03	50.06	0.03	C385497	3.52%	0.80%	2730																
BD	85	50.06	52.11	2.05	SHL	OSR	LA	BK	Black, non-calcareous, laminar shale increases in competence relative to overlying BK SHL; rare, thin (< 1mm) fractures almost parallel to BD; gradational contact over last 15 cm of interval into calcareous black shale; uncommon sulfide bands (1 mm thick)	w			+	+		50.06	50.56	0.50	C385499	232.0	608	62.60	51.82	54.87	3.05	3.11	102	2.63	86	FR	MS	3	85	2	2	Cb		
BD	85	52.11	96.64	44.53	SHL	OSR	LA	BK	52.11 - 57.15 m laminar, black, calcareous shale that fizzes with HCl, with rare, calcite-rich veinlets parallel to BD. Grey limestone laminae and beds (non-bioclastic) up to 3 - 4 cm thick, with grey limestone beds becoming more common near the end f this interval.	w			+	+		50.56	51.06	0.50	C385500	222.0	787	45.40																
LS						LST	OSR	Ba	GY	57.03 - 57.15 m Light grey limestone 'ball' or concretion that is internally brecciated, with calcite-rich matrix supporting angular fragments up to 1 cm diam (unsure whether this is a ball or concretion). Sharp contacts on top and bottom.	w			+		51.06	52.06	1.00	C385501	198.5	545	46.30																
															52.06	53.06	1.00	C385502	265.0	506	48.10	54.87	57.91	3.04	2.92	96	2.47	81	FR	MS	3	85	2	2	Qz			
															53.06	54.56	1.50	C385503	126.5	265	31.80																	
BD	85				SHL	OSR	LA	BK	black, calcareous shale with only rare veinlets and fractures, mostly parallel to BD, when present; very competent BK SHL interbedded with common GY LST beds up to 10 cm thick; GY LST beds more common in middle of this interval, with thin laminae becoming more common towards the end of the interval; GY LST laminae show mild-to-moderate bioturbation; discrete sulfide bands and lenses up to 3 - 4 mm thick are more abundant towards the end of the interval.	w			+	+		54.56	56.06	1.50	C385504	156.6	276	43.70	57.91	60.93	3.02	3.02	100	2.29	76	FR	MS	3	85	1	2	Fe		
															56.06	57.56	1.50	C385505	204.0	386	50.60																	
															BLANK			C385498	2.1	21	0.65	60.93	64.01	3.08	3.13	102	3.08	100	FR	MS	1	85	2	2	Cb			
																						64.01	67.06	3.05	3.03	99	2.20	72	FR	MS	2	5	3	2	Cb			
																						67.06	70.10	3.04	3.03	100	2.79	92	FR	MS	2	5	2	3	Cb			
																						70.10	73.15	3.05	3.05	100	2.68	88	FR	MS	2	85	1	2	Cb			
																						73.15	76.20	3.05	3.11	102	2.98	98	FR	MS	1	85	1	3	Cb			
																						76.20	79.25	3.05	3.01	99	3.00	98	FR	MS	0							
																						79.25	82.30	3.05	3.07	101	2.93	96	FR	MS	1	85	1	2	Cb			

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