

## NiMo PROJECT

**PROPERTY: PE**

**HOLE: PE07-06**

<u>Easting</u>	<u>Northing</u>	<u>Elev.</u>	<u>Depth (m)</u>
452507	7315113	510	152.40

Contractor: North Star  
Drill: MD-002

Core size:	BTW	
Cassing depth:	3.66 (m)	out

Drilling dates: July 10 to 11, 2007

Logged by: D. MacDonald

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	025°	-70°	compass				

Target: Adjusted angle to pass through fault encountered in PE07-05

[illegible]

SAMPLES
Numbers: C385550 - C385554
Total: 5
Date sent: July 23, 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	Fe		From (m)	To (m)	Interval (m)	Sample	Ni (ppm)	Zn (ppm)	Mo (ppm)	From (m)	To (m)	Intvl (m)		Percent		RQD	Percent	Weathering	Hardness	Frequency	Attitude	Shape	Roughness	Infilling			
BD	85		0.00	152.40	152.40	SHL		Fx	BK	0 - 12.97 m Finely laminar, highly fissile + friable grey-black shale with extensive limonite on most fracture surfaces; uncommon Fe-oxyhydroxide/Fe-clay-rich nodules up 10 1 - 2 cm diam.	s			+								0.00	6.10	6.10	1.20	20	0.00	0	MW	VW			30	M	2	2	Li			
																						6.10	9.14	3.04	1.02	34	0.00	0	MW	VW			30	M	3	3	Li			
																						9.14	12.19	3.05	2.37	78	0.10	3.3	MW	VW			30	M	3	3	Li			
BD	80					SHL		Fx	BK	12.97 - 39.60 m Same BK-GY SHL as in previous interval, but slightly more competent and less fractured; common, vfg rusty orange-brown, lenses, beds and nodules ranging from 3 mm to almost 10 cm thick, with a concentric, layered colour zonation (margin: lighter yellow-brown 0.5 cm thick; core: darker orange-brown (4 cm diam.). Uncommonly, these nodules have jet-black, earthy cores that are soft and vfg. About 40% of the nodules have jet-black, organic-rich, thin, wavy laminar stringers within a few cm of said nodules. Rare, vfg flecks of Sx (Py) occur in this interval. Uncommon, finely laminar, low angle X-bedded fg SS beds up to 10 cm thick are found in the last few metres of this interval, having generally sharp erosional contacts at bases of beds.	s			+	+										12.19	15.24	3.05	1.27	42	0.00	0	MW	VW			30	M	3	3	Li
																						15.24	18.28	3.04	2.92	96	0.91	30	MW	VW			30	M	3	3	Li			
																						18.28	21.35	3.07	1.79	58	0.00	0	MW	VW			30	M	3	3	Li			
																						21.35	24.38	3.03	2.98	98	0.45	15	MW	VW			30	M	3	3	Li			
																						24.38	27.43	3.05	3.01	99	0.22	7.2	MW	VW			30	M	3	3	Li			
																						27.43	30.48	3.05	3.02	99	0.78	26	MW	VW			30	M	3	3	Li			
																						30.48	33.53	3.05	2.86	94	1.46	48	MW	VW			30	M	3	3	Li			
																						33.53	36.58	3.05	3.06	100	1.17	38	SW	VW			30	M	3	3	Li			
																						36.58	39.62	3.04	3.00	99	1.06	35	SW	VW			30	M	3	3	Li			
BD	85					SHL		LA	BK	39.60 - 54.84 m Poor overall recovery in this interval, and the black-grey shale beds are very soft + clayey in texture, crumbling with light-to-medium hand pressure. Interbedded with black shale are thinly laminar fg grey SS beds up to 10 cm thick, which beds become more common towards the end of the interval. Reddish-orange and dark, rusty-red Fe-oxides and oxyhydroxides are ubiquitous coating on fracture surfaces. Rare blebs of disseminated Sx (Py) that are commonly altered (to bornite?). No oxidized-Fe-rich nodules in this interval.	ex			+	+									39.62	42.67	3.05	2.42	79	0.31	10	SW	VW			30	M	3	3	Li	
																						42.67	45.72	3.05	2.70	89	0.73	24	SW	VW			30	M	3	3	Li			
																						45.72	48.77	3.05	2.81	92	0.14	4.6	SW	VW			30	M	3	3	Li			
																						48.77	51.82	3.05	2.86	94	1.50	49	SW	VW			30	M	3	3	Li			
																						51.82	54.87	3.05	3.08	101	0.37	12	SW	W			30	M	3	3	Li			
BD	85					SHL		LA	BK	54.84 - 69.20 m Thin beds (5 - 15 m) or finely laminar, black-grey, clayey shale, very friable both parallel and perpendicular to BD, earthy texture and smell and small, poorly lithified; SHL interbedded with fg silty SS beds (5 cm - 100 cm thick) that exhibit mild bioturbation and wavy-laminar-to-cross-bedding with erosional basal contacts; rare, fg Sx laminae and lenses; almost no limonite or Fe-staining in the interval; SS beds more common and thicker towards base of interval. This interval ends in fairly laminar black	m			+										54.87	57.91	3.04	2.40	79	0.57	19	SW	W			30	M	3	3	Li	
																						57.91	60.93	3.02	2.42	80	0.37	12	SW	W			30	M	3	3	Li			
																						60.93	64.01	3.08	2.38	77	0.25	8.1	SW	W			30	M	3	3	Li			
																						64.01	67.06	3.05	2.20	72	0.53	17	SW	W			30	M	3	3	Li			

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