

NiMo PROJECT

PROPERTY: EL

HOLE: EL07-19

<u>Easting</u>	<u>Northing</u>	<u>Elev.</u>	<u>Depth (m)</u>
468107	7301784		182.88

Contractor: North Star
Drill: MD-001

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	050°	-70°	compass				

Core size: BTW
Casing depth: 4.57 (m) out

Drilling dates: July 11 to 13, 2007

Logged by: J. Lane

Target: NiMo horizon east of EL07-17

[illegible]

SAMPLES
Numbers: C385540 - C385549
Total: 10
Date sent: July 23, 2007

COMMENTS	

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Struct.		LITHOLOGY								ALT.		MINERALS		SAMPLES							Blocks			GEOTECHNICAL						JOINTS						
		From (m)	To (m)	Interval (m)	Type	Unit	Texture	Modifier		car	ilm	py			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	
Type	Attitude																						(m)	Percent	(m)	Percent										
			0.00	4.57	4.57																															
BD	80		4.57	21.84	17.27	SHL	DME	FG	BK													4.57	6.10	1.53	0.60	39	0.00	0	SW	MS	30	10	3	2	Li	
FX	5										m																									
																						6.10	9.14	3.04	2.90	95	0.00	0	SW	MS	30	90	2	2	Li	
																						9.14	12.19	3.05	2.95	97	0.00	0	SW	MS	30	90	2	2	Li	
																						12.19	15.24	3.05	2.70	89	0.00	0	SW	W	30	15	2	2	Li	
																						15.24	18.29	3.05	3.01	99	0.00	0	SW	MS	30	90	2	2	Li	
																						18.29	21.34	3.05	2.81	92	0.00	0	SW	MS	30	10	3	2	Li	
			21.84	22.59	0.75	CBR	DME	FG	GY	Medium grey coloured quite hard carbonate rich rock	st											21.34	24.38	3.04	2.99	98	0.49	16	SW	MS	30	5	3	2	Li	
			22.59	32.68	10.09	SHL	DME	FG	BK	Similar shale as above	m																									
																						24.38	27.43	3.05	3.02	99	0.11	4	SW	MS	30	90	2	2	Li	
																						27.43	30.48	3.05	3.10	102	0.00	0	SW	MS	30	90	2	2	Li	
																						30.48	33.53	3.05	2.83	93	0.31	10	SW	MS	30	90	3	2	Li/Cb	
			32.68	33.54	0.86					carbonate rich rock, medium grey in colour with white carbonate vein running ~ 70 deg to ca, also see very bright orange powder on fractures which does not fizz with acid.	l																									
			33.54	36.01	2.47	SHL	DME	FG	BK	Similar shale as above, although it becomes quite soft.	m											33.53	36.58	3.05	3.11	102	0.20	7	SW	W	30	5	3	2	Li	
			36.01	36.17	0.16	CBR	DME	FG	GY	Medium grey coloured, medium hard carbonate rock	st											36.58	39.62	3.04	3.00	99	0.67	22	SW	W	30	5	1	2	Li	
			36.17	40.13	3.96	SHL	DME	FG	BK	Similar shale as above	m																									
																						39.62	42.67	3.05	2.98	98	0.38	12	SW	W	30	90	1	2	Li	
			40.13	40.42	0.29	CBR	DME	FG	GY	Medium grey coloured, medium hard carbonate rock	st																									
BD	80		40.42	46.40	5.98	SHL	DME	FG	BK	Similar shale as above	m											42.67	45.72	3.05	2.60	85	0.00	0	SW	W	30	90	2	2	Li	
FX	5																																			
																						45.72	48.77	3.05	3.00	98	0.00	0	SW	VW	30	90	2	2	Li	
			46.40	46.63	0.23	CBR	DME	FG	GY	Medium grey coloured, medium hard carbonate rock	st																									
BD	80		46.63	51.82	5.19	SHL	DME	FG	BK	Similar shale as above												48.77	51.82	3.05	3.03	99	0.00	0	SW	VW	30	90	2	2	Li	
FX	5																																			
BD	80		51.82	54.76	2.94	SHL	DME	FG	BK	core is interlayered with very dark black quite	m											51.82	54.06	2.24	3.03	135	0.00	0	SW	VW	30	90	2	2	Li	

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Struct.		LITHOLOGY							Notes:	ALT.		MINERALS		SAMPLES							Blocks			GEOTECHNICAL						JOINTS				
		From (m)	To (m)	Interval (m)	Type	Unit	Texture	Modifier		car	lim	py	From (m)	To (m)	Interval (m)	Sample	Ni (ppm)	Zn (ppm)	Mo (ppm)	From (m)	To (m)	Intvl (m)	REC		ROD		Weathering	Hardness	Frequency	Attitude	Shape	Roughness	Infilling	
																							(m)	Percent	(m)	Percent								
BD	80	99.68	116.19	16.51	SHL	OSR	FG	GY	carbonate rich shale with the occasional carbonate stringer vein <1mm-3mm thick running in general parallel to bedding, core has become very hard and may be recrystallized. From 109.75-1110.23 there is a light grey section of very heavy carbonaceous rock (barite?)	I										100.58	103.62	3.04	3.04	100	2.40	79	FR	S	3	85	1	1	Cb	
FX	5																				103.62	106.68	3.06	3.07	100	2.73	89	FR	S	4	85	1	1	Cb
																					106.68	109.73	3.05	3.07	101	2.40	79	FR	MS	4	80	1	1	Cb
																					109.73	112.77	3.04	3.04	100	2.61	86	FR	MS	3	85	1	1	Cb
																					112.77	115.82	3.05	3.08	101	2.77	91	FR	MS	1	85	1	1	Cb
																					115.82	118.87	3.05	3.10	102	2.14	70	FR	MS	2	5	2	2	Cb
BD	80	116.19	139.65	23.46	SHL	OSR	FG	GY	nodular shale with nodules becoming elongate rounded structures as though they have been stretched giving it a gneiss like appearance, these appear around 122.29, and 123.71-125.64. Some medium grained rocks occur from 123.80-123.95 showing a fining up sequence, this also occurs from 124.06-124.25. These sections are light grey in colour and are very hard (harder than the surrounding rocks). Crinoids appear in the core at 129.17-130.85 varying in density but hosted in a very hard light grey calareous	I											118.87	121.92	3.05	3.06	100	2.51	82	FR	S	2	70	1	1	Cb
																					121.92	124.79	2.87	3.04	106	2.96	103	FR	S	1	85	1	1	Cb
																					124.79	128.02	3.23	3.07	95	2.63	81	FR	S	2	5	1	1	Cb
																					128.02	131.06	3.04	3.17	104	2.35	77	FR	MS	4	10	1	1	Cb
																					131.06	134.11	3.05	3.05	100	2.83	93	FR	MS	1	20	3	1	Cb
																					134.11	137.11	3.00	2.98	99	2.28	76	FR	MS	1	10	1	1	Cb
																				137.11	140.21	3.10	2.86	92	2.70	87	FR	MS	1	40	1	1	Cb	
		139.65	182.88	43.23	SHL	OSR	FG	bk	core is very compitent, medium hard, intensely chalcareous, black with the occasional lighter grey 2-3cm layer- however these decrease in abundance down hole. These is next to no sulfides in the core and only trace carbonate veins occur rarely	I											140.21	143.26	3.05	3.09	101	2.40	79	FR	MS	2	25	3	1	Cb
																					143.26	146.30	3.04	3.05	100	2.56	84	FR	MS	1	25	1	1	Cb
																					146.30	149.35	3.05	2.93	96	2.57	84	FR	MS	1	30	1	1	Cb
																					149.35	152.40	3.05	2.95	97	2.19	72	FR	MS	2	45	1	1	Cb
																					152.40	155.53	3.13	3.20	102	2.71	87	FR	MS	1	80	1	1	Cb
																					155.53	158.50	2.97	2.99	101	1.80	61	FR	MS	3	40	3	1	Cb
																				158.50	161.54	3.04	3.08	101	2.63	87	FR	MS	1	35	3	1	Cb	
																				161.54	164.60	3.06	3.03	99	2.92	95	FR	MS	1	85	1	1	Cb	

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Struct.	Type	Attitude	LITHOLOGY							Notes:	ALT.			MINERALS			SAMPLES							Blocks			GEOTECHNICAL								JOINTS				
			From (m)	To (m)	Interval (m)	Type	Unit	Texture	Modifier		car	lim	py	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					
																						(m)	Percent	(m)	Percent														
																					164.60	167.64	3.04	2.83	93	2.14	70	FR	MS	1	15	2	1	Cb					
																					167.64	170.69	3.05	3.04	100	3.00	98	FR	MS	1	85	2	1	Cb					
																					170.69	173.74	3.05	3.03	99	2.30	75	FR	MS	1	30	2	1	Cb					
																					173.74	176.78	3.04	3.09	102	2.80	92	FR	MS	1	40	1	1	Cb					
																					176.78	179.83	3.05	3.06	100	2.33	76	FR	MS	2	40	1	1	Cb					
																					179.83	182.88	3.05	3.10	102	2.95	97	FR	MS	1	43	1	1	Cb					
			182.88							END OF HOLE																													