

NiMo PROJECT

PROPERTY: EL

HOLE: EL07-08

<u>Easting</u>	<u>Northring</u>	<u>Elev.</u>	<u>Depth (m)</u>
460487	7305083	317	131.07

Contractor: North Star
Drill: MD-001

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	030°	-70°	compass				

Core size: BTW
Casing depth: 10.67 (m) out

Drilling dates: June 18 to 21, 2007

Logged by: D. MacDonald

Target: NiMo horizon west of EL07-05

[illegible]

SAMPLES
Numbers: C385351 -C385374 C385403 Total: 25 Date sent: July 7, 2007

COMMENTS
NiMo horizon originally mistaken at 88.10 to 88.17 m, sulphide banding. Actual horizon found during splitting at 91.30 m, NiMo sample taken from within existing sample interval C385362

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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	Qz	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									
SH	var				SHL		LA	BK	52.90 - 53.28 Zone of slightly sheared/tectonized black shale with common, thin quartz veinlets at both high and low angle to BD, rare infilling of small fractures by calcite	m		+		+																						
Bx					SHL			BX	BK	53.28 - 53.37, and again at 54.12 - 54.17 Intensely brecciated black shale with open fractures up to 1 cm across, with angular shale fragments projecting into void space; fractures partially filled with sulfide (Py?) + fibrous, vfg dusky-green mineral growing perpendicular to direction of dilation	m		+	+	+																					
BD	85				SHL		LA	BK	54.17 - 54.30 Black shale continued	w			+	+								54.87	57.91	3.04	3.07	101	2.07	68	FR	MS	2	10	5	3	Qz	
VT	0/90				SHL		LA	BK	common veinlets of quartz and flecks of sulfide																											
																						57.91	60.93	3.02	2.99	99	1.80	60	FR	MS	2	10	3	2	Qz	
VT	90				SHL		LA	BK	61.38 - 67.00 Fissile black shale increases in overall hardness (silicification); rare calcite-rich laminae exude H2S odour with HCl	w		+	+	+								60.93	64.01	3.08	3.04	99	2.20	71	FR	S	2	20	3	2	Qz	
																						64.01	67.06	3.05	2.98	98	1.98	65	FR	MS	2	15	3	2	Qz	
VT	5				SHL		LA	BK	67.00 - 76.45 Laminar, flat-bedded black shale with common flecks of and small lenses (1mm x 4mm) of sulfide; black shale commonly interbedded with calcareous black shale, where calcareous beds are up to 15 cm thick; rare high-angle quartz veinlet	w		+	+	+								67.06	70.10	3.04	3.00	99	1.47	48	FR	S	3	10	5	3	Qz	
																						70.10	73.15	3.05	2.98	98	1.92	63	FR	MS	3	10	5	3	Qz	
																						73.15	76.20	3.05	3.01	99	0.91	30	FR	MS	3	15	3	3	Qz	
Bx					SHL			BX	BK	quartz veinlets; in brecciated zones (10cm-80 cm thick) shale is v. strongly weathered, and competent shale increases in calcite content	s		+	+	+	77.48	78.98	1.50	C385351	173.0	1175	60.20	76.20	79.25	3.05	2.87	94	0.37	12	FR	MS	10	15	5	4	Qz
																78.98	80.48	1.50	C385352	140.0	851	47.00														
																80.48	81.98	1.50	C385353	181.5	590	52.60														
																81.98	83.48	1.50	C385354	176.0	469	67.30	79.25	82.30	3.05	2.73	90	0.78	26	FR	MS	10	10	3	3	Qz
																83.48	84.48	1.00	C385355	173.5	1175	49.50														
																84.48	85.48	1.00	C385356	175.5	1520	47.90														
																85.48	86.48	1.00	C385357	183.5	896	52.90	82.30	85.34	3.04	2.67										
																86.48	86.98	0.50	C385358	176.0	627	56.40														
																86.98	87.48	0.50	C385359	158.5	535	53.10														
																87.48	87.98	0.50	C385360	130.0	266	44.80	85.34	88.39	3.05	2.75	90	0.69	23	FR	MS	10	25	3	5	Qz
					SHL		LA	BK	86.85 - 88.10 Black shale continues							87.98	88.32	0.34	C385362	180.5	391	63.20														
BD	85	88.10	88.17	0.07	SHL		LA	BK	Possible NiMo contact zone, i.e., shales after this point are calcareous with discrete, lighter-coloured beds up to several cm thick.	w						88.32	88.82	0.50	C385363	138.0	280	53.30														
BD	85	88.17	89.92	1.75	SHL	DME	LA	BK	Black calcareous shale thinly laminated, with both disseminated sulfide and discrete laminae/lenses of sulfide (2 mm thick)	w		+	+			88.82	89.32	0.50	C385364	162.5	584	46.20	88.39	91.44	3.05	2.87	94	1.32	43	FR	MS	5	20	3	5	Cb
Bx		89.92	90.52	0.60	LST	DME	ND	GY	Limestone ball, heavily brecciated and with numerous calcite veinlets	w		+				89.32	89.92	0.60	C385365	222.0	678	62.90														
Bx		90.52	91.30	0.78	SHL	DME	LA	BK	amount of bioturbation and rare-to-common calcite veinlets and disseminated sulfides; several zones of strongly brecciated calcareous shale and interbedded limestone - breccia has angular fragments of shale/limestone in calcite rich matrix; some pinching and swelling of light grey limestone	m		+	+			89.92	90.46	0.54	C385366	33.3	132	8.96														
		91.30	91.32	0.02	SHL	NiMo	LA	BK								90.46	91.46	1.00	C385367	227.0	602	61.80	91.44	94.49	3.05	2.92	96	1.02	33	FR	MS	10	20	3	2	Go
		91.32	110.00	18.68	SHL	OSR	LA	BK								91.46	92.46	1.00	C385368	246.0	755	56.90														
																92.46	93.46	1.00	C385369	278.0	598	48.60														
																93.46	94.96	1.50	C385370	307.0	1230	43.50	94.49	97.54	3.05	2.80	92	0.00	0	FR	MS	20	15	3	3	Go
																94.96	96.46	1.50	C385371	337.0	1620	46.40														
																96.46	97.96	1.50	C385372	324.0	1520	49.70														

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