NiMo PROJECT

PROPERTY: EL

HOLE: EL07-01

Easting	Northing	Elev.	Depth (m)
461385	73085124	308	106.68

Contractor: North Star
Drill: MD-002

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

Core size: BTW
Casing depth: 7.62 (m) out

Drilling dates: June 8 to 11, 2007

Logged by: J. Lane

Target: NiMo horrizon, 100 m south of Peel River Showing

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0	8.64	8.64	OVB	
8.64	39.87	31.23	DME	
39.87	39.88	0.01	NiMo	
39.88	106.68	66.8	OSR	

SAMPLES	
Numbers:	C385251-C385270
Total:	20
Date sent:	June 18, 2007

COMMENTS

Lost 160' of rods while shutting down the hole.

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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	Ni (ppm)	Zn (ppm)	Mo (ppm)	From (m)	To (m)	Intvl. (m)	(m)	Percent	(m)	Percent	Weathering	Hardness	Frequency	Attitude	Shape	Roughness	Infilling	
		0.00	8.64	8.64	OVB				Mixed lithologies of rounded pebbles, cobbles, and boulders.																													
BD	80	8.64	9.94	1.30	SHL	DME	FG	BK	Sub-crop; Slightly weathered surface at top becoming more competent at the bottom; Very broken up.																													
		9.94	10.57	0.63	OVB				Rounded pebbles; probably fell in hole from above.																													
BD	80-85	10.57	20.58	10.01	SHL	DME	FG	BK	Black shale; does not fizz with acid; Hard; Some minimal brownish red thin coating on broken surfaces (oxidization?)																10.57	12.19	1.62	1.62	100	1.34	83	FR	W	1	10	5	3	Qz
																									12.19	15.24	3.05	2.79	91	1.80	59	FR	W	1	5	2	2	Qz
																									15.24	18.29	3.05	2.91	95	2.40	79	FR	W	2	20	2	2	Qz
																									18.29	21.37	3.08	2.96	96	2.51	81	FR	W	2	5	3	2	Qz
		20.58	20.94	0.36	BAR	DME	BX		1.5cm wide fault gouge @ 20.58m; reactive with acid. Barite nodule from 20.56m-20.81m. Carbonate breccia @ 20.80m-20.91m; sub-angular to sub rounded clasts; slightly softer than rocks above. Barite nodule @20.91m .																													
BD	80	20.94	24.91	3.97	SHL	DME		BK	Quite hard shale; no reaction with acid; contains barite nodules at 22.90m and 23.14m, both of these react with acid, are lenticuar in shape, 5-6cm long and 0.5-1cm wide. @22.93m there is a small lens of sulphide 1cm long x 1mm wide, tapered at the edges into a lens shape.																21.37	24.38	3.01	3.03	101	2.83	94	FR	MS	1	15	3	3	Qz
																									24.38	27.43	3.05	3.01	99	2.22	73	FR	MS	2	10	2	2	Qz
		24.91	24.92	0.01	BAR	DME	FG	BK	Barite nodule 1cm wide x 5cm long																													
BD	80	24.92	25.63	0.71	SHL	DME	FG	BK	Similar shale as above. @24.39 sulphide 7mm wide, surface surrounding it v.soft resembling fault gouge																													
BD	40-80	25.63	29.78	4.15	SHL	DME	FG	BK	Similar shale as above; no acid reaction; very hard. @ 25.94 Barite nodule, reacts with acid, is v.hard. @28.67 sulphide 2mm thick. Some thin quarts veins in the lower part of the section.																27.43	30.48	3.05	3.05	100	2.63	86	FR	MS	1	40	3	5	Qz
		29.78	29.98	0.20	SHL	DME	FG	BK	Organic rich shale; shows concoidal fracturing pattern; somewhat similar in appearance to bitumen, quite hard on the outside though.																30.48	33.53	3.05	2.99	98	2.38	78	FR	MS	2	15	3	4	Qz

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Type	Attitude	From (m)	To (m)	Interval (m)	Type	Unit	Texture	Modifier	Notes:								From (m)	To (m)	Interval (m)	Sample	Ni (ppm)	Zn (ppm)	Mo (ppm)	From (m)	To (m)	Intvl. (m)	(m)	Percent	(m)	Percent	Weathering	Hardness	Frequency	Attitude	Shape	Roughness	Infilling	
BD	55	29.98	39.87	9.89	CHT	DME	FG	BK	Shale unit with sulphide lens @ 32.58m; thin carbonate breccia @31.88; quartz vein @32.23; also see quartz stringers throughout the core; is very hard and does not react with acid.																															
																								33.53	36.58	3.05	3.00	98	2.49	82	FR	MS	2	10	2	2	Qz
																	34.03	35.53	1.50	C385251	153.5	666	65.3														
																	35.53	37.04	1.51	C385252	140.5	1350	44.3														
																								36.58	39.62	3.04	3.01	99	2.90	95	FR	MS	2	65	2	2	Cb
																	37.04	38.44	1.40	C385253	164.0	705	58.0														
																	38.44	39.87	1.43	C385254	184.5	377	66.8														
																								39.62	42.67	3.05	2.98	98	2.45	80	FR	MS	2	50	1	2	Cb
		39.87	39.88	0.01	MSX	NiMo	FG	MT	NiMo zone, 2cm-1cm in width; wedge shaped, bioturbated, banded sulphides								39.87	39.88	0.01	C385255	5.80%	1.48%	1720														
BD	40-75	39.88	40.28	0.40	CBR	OSR	FG	BK	Reacts with acid; is softer; high concentration of layered sulphides.								39.88	39.99	0.11	C385257	368.0	230	395.0														
		40.28	40.46	0.18	LST	OSR	BX		20cm wide carbonate breccia with angular to sub-rounded clasts; matrix is soft while clasts are harder; strong reaction to acid from both clasts and matrix- represents limestone ball.								39.99	40.86	0.87	C385258	114.5	413	25.8	42.67	45.72	3.05	3.04	100	2.54	83	FR	MS	2	35	2	2	Cb
		40.46	44.54	4.08	CBR	OSR	FG	BK	dark grey-black carbonate shale with lenses of lighter grey (barite balls?); generally are 0.5-1.5 cm thick, spaced every 5-20cm, some contain lenses rich in sulphides (41.22m), while most contain only trace sulphides to the eye. Large lenses of sulphides are present at 41.94m (2mm wide x 5mm long) and 41.99m (1.5cm wide x 3cm long).								40.86	41.28	0.42	C385259	256.0	778	74.0														
BD	70	44.54	54.66	10.12	CBR	OSR	RX	Bk	Very Hard! Recrystallized carbonate; quite competent with few breaks/fractures. Contains sulphides 2-3mm wide @47.48m. Start to see a concentration of carbonate stringer veins @50.42 along what look like possible joint surfaces.								41.28	43.35	2.07	C385260	176.0	566	50.8														
J	60																43.35	44.86	1.51	C385261	197.5	453	49.1	45.72	48.77	3.05	2.99	98	2.05	67	FR	MS	2	15	3	2	Cb
																	44.86	46.36	1.50	C385262	171.0	352	53.3														
																	46.36	47.88	1.52	C385263	160.5	283	47.0														
																	47.88	49.37	1.49	C385264	159.0	286	48.0	48.77	51.82	3.05	3.02	99	2.37	78	FR	MS	3	5	3	3	Cb
																	49.37	50.73	1.36	C385265	167.5	315	51.2														
																	50.73	52.22	1.49	C385266	171.0	371	52.7														
																								51.82	54.87	3.05	3.03	99	2.47	81	FR	MS	2	40	3	4	Cb
																	52.22	53.71	1.49	C385267	152.0	439	44.1														
																	53.71	54.70	0.99	C385268	189.0	963	46.6														
																	54.70	56.96	2.26	C385269	390.0	2540	27.8	54.87	57.91	3.04	3.03	100	1.78	59	FR	W	3	15	5	5	Cb
		54.66	55.98	1.32	CBR	OSR	BX		carbonate filled fault with visible sulphides within the fault gouge; also contains white powder; can see black carbonate shale clasts within white carbonate matrix. The joints showing slickensides seem to control many the thin carbonate stringer veins. (Limestone Ball?)								56.96	58.49	1.53	C385270	145.0	452	45.3														

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Type	Attitude	From (m)	To (m)	Interval (m)	Type	Unit	Texture	Modifier	Notes:								From (m)	To (m)	Interval (m)	Sample	Ni (ppm)	Zn (ppm)	Mo (ppm)	From (m)	To (m)	Intvl. (m)	(m)	Percent	(m)	Percent	Weathering	Hardness	Frequency	Attitude	Shape	Roughness	Infilling	
J	60	55.98	70.40	14.42	CBR	OSR			very hard carbonate shale with carbonate stinger veins running 60 deg to ca; also see sulphides along the broken bedding and joint surfaces. Some visible white powder (reacts with acid-carbonate?) on fracture @71.72m. From 60.36m-60.66m interesting looking bedding that appears to sink and swell depending on the surface of deposition (paleosurface?). These beds also show distinctive colour variations from light to dark grey.							BLANK			C385256	1.5	27	0.7																	
BD	75																							57.91	60.96	3.05	3.02	99	2.89	95	FR	MS	3	75	2	3	Cb
																								60.96	64.01	3.05	3.01	99	2.40	79	FR	MS	2	10	3	3	Cb
																								64.01	67.06	3.05	3.06	100	2.59	85	FR	MS	2	10	3	2	Cb
																								67.06	70.01	2.95	2.93	99	2.55	86	FR	MS	2	25	2	2	Cb
BD	75	70.40	91.29	20.89	CBR	OSR			The rock appears to be getting slightly softer(non recrystalized). sulphide concentration also appears to be decreasing as no visible sulphide lenses are present. The bedding planes have very smooth surfaces, and slickensides occur along joints. 8cm wide carbonate breccia (limestone ball)@ 72.20. It seems that the darker sediments are softer than the lighter sediments (more organics in darker seds)													70.01	73.15	3.14	3.02	96	2.55	81	FR	MS	2	15	1	3	Cb
J	35																							73.15	76.20	3.05	2.95	97	2.80	92	FR	MS	1	40	3	2	Cb
																								76.20	79.25	3.05	2.98	98	2.55	84	FR	MS	1	30	5	4	Cb
																								79.25	82.30	3.05	3.03	99	2.45	80	FR	MS	1	30	2	2	Cb
																								82.30	85.34	3.04	3.04	100	2.94	97	FR	MS	1	45	1	2	Cb
																								85.34	88.39	3.05	3.00	98	2.00	66	FR	MS	1	15	2	2	Cb
																								88.39	91.44	3.05	2.95	97	2.76	90	FR	MS	1	20	1	2	Cb
		91.29	106.68	15.39	CBR	OSR			core lightens in colour and becomes slightly harder.													91.44	94.49	3.05	3.03	99	2.82	92	FR	MS	1	40	1	2	Cb
																								94.49	97.54	3.05	3.28	108	3.02	99	FR	MS	1	50	2	2	Cb

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Type	Attitude	From (m)	To (m)	Interval (m)	Type	Unit	Texture	Modifier	Notes:								From (m)	To (m)	Interval (m)	Sample	Ni (ppm)	Zn (ppm)	Mo (ppm)	From (m)	To (m)	Intvl. (m)	(m)	Percent	(m)	Percent	Weathering	Hardness	Frequency	Attitude	Shape	Roughness	Infilling	
																								97.54	100.58	3.04	3.07	101	3.00	99	FR	MS	1	20	1	1	Cb
																								100.58	103.63	3.05	2.95	97	2.61	86	FR	MS	1	25	2	2	Cb
																								103.63	106.68	3.05	3.07	101	2.85	93	FR	MS	1	45	3	2	Cb
		106.68							END OF HOLE!																												