

PROJECT: NiMo

PROPERTY: Rich

Easting	Northing	Elev.	Depth (m)
443753	7356495	609	565.71 m

HOLE: DDH-RI08-24

Contractor: Orofino
Drill: Zinex A5 B20

Core size: HQ and NQ
Cassing depth: (m) out

Drilling dates: May 8 - May 18

Logged by: D. Gregory

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar							
535.71	90	-70	compass				

Target: VTEM anomaly and/or NiMo horizon at transition from Road River to Canol formation

[illegible]

SAMPLES	
Numbers:	
Total:	
Date sent:	

COMMENTS	

PROPERTY: Rich

HOLE: RI08-24

Struct.		LITHOLOGY								ALT.		MINERALS			SAMPLES							Blocks			GEOTECHNICAL						JOINTS					
		From (m)	To (m)	Interval (m)	Type	Unit	Texture	Modifier		Notes:												From (m)	To (m)	Intvl. (m)		REC	RQD			Weathering	Hardness	Frequency	Attitude	Shape	Roughness	Infilling
Type	Attitude																							(m)	Percent	(m)	Percent									
		0	8.97	8.97		OVBD		sand with several large pebbles															0.00	10.97	10.97					EW	VW					
		8.97	12.5	3.53		Imp		heavily fractured dark grey non-calcareous mudstone.	x clay														10.97	12.50	1.53					EW	VW					
								dark grey non-calcareous mudstone. Slightly wavy with minor <1 mm thick black carbonaceous beds. Minor (0.5%) quartz stringer @ 15 m and one 1 cm wide quartz breccia (50% sub-angular DMe fragments 2-3 mm x 1 cm) @ 50 degrees. @ 22.22 m with minor soft sediment deformation @ 23.47 m 1 cm wide quartz vein with 1imonitic stain occurring parallel to bedding.																												
bed	65	12.5	25.3	12.8		Imp			h clay														12.50	14.02	1.52	1.27	9.058			EW	VW					
																							14.02	15.55	1.53	1.20	7.717			EW	VW					
																							15.55	18.59	3.04	2.27	12.21			HW	VW					
																							18.59	21.64	3.05	2.00	9.242			MW	VW					
																							21.64	23.17	1.53	1.19	5.136			MW	VW	4	70	5	4 A	
																							23.17	24.09	0.92	1.10	4.566			MW	VW					
		25.3	28.2	2.9		Imp		dark grey non-calcareous mudstone. Heavily fractured.	x clay														24.09	26.21	2.12	0.69	2.633			MW	VW					
																							26.21	27.74	1.53	0.76	2.74			MW	VW					
bed	65	28.2	46.23	18.03		Imp		dark grey non-calcareous mudstone. Minor carbonaceous bed @ 30.59 m. Shows some evidence of soft sediment deformation	h clay														27.74	29.26	1.52	0.86	2.939			MW	VW					
																							29.26	30.79	1.53	0.99	3.215			MW	VW					
																							30.79	32.31	1.52	0.83	2.569			MW	VW	1	70	5	4 A	
																							32.31	33.83	1.52	1.22	3.606	0.10	7	MW	VW					
																							33.83	35.36	1.53	1.14	3.224	0.00	0	MW	VW	1	70	5	4 A	
																							35.36	36.88	1.52	1.12	3.037	0.24	16	MW	W					
																							36.88	38.40	1.52	1.00	2.604	0.00	0	MW	W					
																							38.40	39.93	1.53	0.84	2.104	0.10	7	MW	W					
																							39.93	41.45	1.52	1.12	2.702	0.00	0	MW	W					
																							41.45	42.98	1.53	1.27	2.955	0.00	0	MW	W					
																							42.98	44.50	1.52	1.03	2.315	0.00	0	MW	W					
?F?	??	46.23	46.27	0.04				dark grey gauge (fault?)	x clay														44.50	46.03	1.53	1.31	2.846	0.00	0	MW	W	3	70	5	4 A	
																							46.03	47.56	1.53	1.31	2.754	0.00	0	MW	W					
bed	75	46.27	62.09	15.82		Imp		dark grey non-calcareous mudstone. Minor quartz along 15% of fractures. 3 mm wide quartz vein with ~60% sub-angular Imp clasts @ 50 m. At 48.80 m a 3 mm wide quartz vein with quartz enrichment in country rock extending 4 mm on both sides of vein. Vein has a weak comb texture. @ 54.68 m there is a 1 cm wide quartz vein with minor limonite @ 35 degrees. Dark grey material occurs at centre of vein.	h clay														47.56	49.03	1.47	1.08	2.203	0.24	16	MW	W		90			
																							49.03	50.60	1.57	1.38	2.727	0.11	7	MW	W	1	70	5	4 A	
																							50.60	52.12	1.52	1.30	2.494	0.10	7	MW	W	2	70	2	2 A	
																							52.12	53.65	1.53	1.33	2.479	0.00	0	MW	W	2	70	2	2 A	
																							53.65	56.69	3.04	2.29	4.04	0.56	18	MW	W	1	70	2	2 A	
																							56.69	59.74	3.05	2.84	4.754	0.40	13	FR	W	2	70	2	2 A	
?F?		62.09	62.15	0.06		Imp		dark grey non-calcareous mudstone. Heavily fractured and gaugey.	x clay														59.74	62.79	3.05	2.69	4.284	0.58	19	FR	W	3	70	2	2 A	
		62.15	63.89	1.74		Imp		dark grey non-calcareous mudstone.	h clay														62.79	65.84	3.05	2.71	4.116	0.46	15	FR	W	1	70	2	2 A	
?F?		63.89	63.99	0.1		Imp		dark grey gauge, possible fault, though likely just a fluid conduit.	x clay														65.84	68.89	3.05	2.72	3.948	1.09	36	FR	W	3	70	2	2 A	
		63.99	65.13	1.14		Imp		dark grey non-calcareous mudstone.	h clay														68.89	71.92	3.03	2.55	3.546	0.74	24	FR	W	2	70	2	2 A	
bed	65	65.13	71.92	6.79		Imp		dark grey non-calcareous mudstone. Rare <1 mm wide quartz veins @ 25 degrees, 1.5 cm wide quartz vein @ 70.76 m @ 58 degrees.	m clay																											

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HOLE: R108-24

Struct.		LITHOLOGY								ALT.		MINERALS				SAMPLES						Blocks			GEOTECHNICAL						JOINTS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
		From (m)	To (m)	Interval (m)	Type	Unit	Texture	Modifier																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

HOLE: RI08-24

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Struct.		LITHOLOGY								ALT.		MINERALS		SAMPLES							Blocks			GEOTECHNICAL					JOINTS						
Type	Attitude	From (m)	To (m)	Interval (m)	Type	Unit	Texture	Modifier	Notes:												From (m)	To (m)	Intvl. (m)	REC		RQD		Weathering	Hardness	Frequency	Attitude	Shape	Roughness	Infilling	
																								(m)	Percent	(m)	Percent								
bed	75	230.2	251	20.75		Imp				interbedded dark grey/black beds non-calcareous mudstone, ~5% black mudstone in thin (< 1 mm wide) black beds with slightly wavy bedding. @ 236.27 m a zone of 2 (60 degree dipping) 1 mm thick quartz veins 1.5 cm apart connected by several quartz stringers occurs @ 239.5 m. From 238.75-239.25 m 1-3 mm wide quartz veins occur every 10-20 cm dipping 70-80 degrees. The entire interval shows evidence of minor soft sediment deformation. At 238.71 m minor pyrite clot (3x6 mm) - along bedding. At 250.87 m three 75 degree dipping 3-4 mm wide quartz veins occur next to each other. Small amounts (5%) void space in thickest one.	w clay												230.43	233.48	3.05	2.88	1.234	2.51	82	FR	W	2	75	2	2
																					233.48	236.52	3.04	2.84	1.201	2.33	77	FR	W	2	75	2	2	A	
																					236.52	239.57	3.05	3.05	1.273	2.36	77	FR	W	3	75	2	2	A	
																					239.57	242.62	3.05	2.96	1.22	2.62	86	FR	W	3	70	2	2	A	
																					242.62	245.67	3.05	2.98	1.213	2.55	84	FR	W	2	70	2	2	A	
																					245.67	248.72	3.05	2.84	1.142	2.46	81	FR	W	2	70	2	2	A	
																					248.72	251.76	3.04	2.95	1.172	2.60	86	FR	W	2	70	2	2	A	
bed	75	251	261.3	10.31		Imp			dark grey non-calcareous mudstone with trace <1 mm wide black beds. @ 252.07 m a 2 cm wide crack-seal texture quartz vein with thin DMe layers between 1 mm wide quartz layers dipping 75 degrees.	t clay											251.76	254.81	3.05	2.99	1.173	2.62	86	FR	W	1	70	2	2	A	
																					254.81	257.86	3.05	2.98	1.156	2.67	88	FR	W	2	70	2	2	A	
																					257.86	260.91	3.05	2.97	1.138	2.71	89	FR	W	2	70	2	2	A	
bed	70	261.3	261.6	0.27		Imp			med grey fine grained non-calcareous sandstone with ~10% thin black interbeds.												260.91	263.96	3.05	2.89	1.095	2.44	80	FR	W	3	70	2	2	A	
bed	60	261.6	266.4	4.85		Imp			Dark grey non-calcareous mudstone with rare black interbeds	t clay											263.96	267.01	3.05	2.97	1.112	2.78	91	FR	W	2	70	2	2	A	
bed	65 to	266.4	276.7	10.29		Imp			Dark grey non-calcareous mudstone with 2-3% black mudstone beds (tend to be slightly wavy, occasionally with a rip-up like fabric) rarely beds get up to 2 cm thick. From 267.5-270.0 m 4x10 mm blebs of pyrite occur every 20-50 cm. @ 275.65 m a 1 cm thick quartz vein with a crack-seal texture; 0.5-1 mm quartz layers between thin DMe layers.												267.01	270.05	3.04	3.01	1.115	2.84	93	FR	W	3	70	2	2	A	
																					270.05	273.10	3.05	2.91	1.066	2.80	92	FR	W	3	70	2	2	A	
																					273.10	276.15	3.05	3.00	1.086	2.75	90	FR	W	2	70	2	2	A	
bed	72	276.7	291.1	14.37		Imp			Dark grey non-calcareous mudstone with rare thin black beds. @ 278.10 m a 1 cm wide crack-seal quartz vein with ~1 mm wide quartz layers. Every ~1.5 m after 280.06 m 0.5 cm thick comb textured quartz veins occur.												276.15	279.20	3.05	2.70	0.967	2.05	67	FR	W	3	70	2	2	A	
																					279.20	282.25	3.05	2.96	1.049	2.17	71	FR	W	2	70	2	2	A	
																					282.25	285.29	3.04	3.10	1.087	2.80	92	FR	W	2	70	2	2	A	
																					285.29	288.34	3.05	2.86	0.992	2.66	87	FR	W	2	70	2	2	A	
																					288.34	291.39	3.05	2.98	1.023	2.98	98	FR	W	1	70	2	2	A	

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Struct.		LITHOLOGY								ALT.		MINERALS			SAMPLES							Blocks			GEOTECHNICAL						JOINTS					
		From (m)	To (m)	Interval (m)	Type	Unit	Texture	Modifier		Notes:						From (m)	To (m)	Interval (m)	Sample					From (m)	To (m)	Intvl. (m)	REC		RGD		Weathering	Hardness	Frequency	Attitude	Shape	Roughness
Type	Attitude																								(m)	Percent	(m)	Percent								
bed	70	291.1	303.6	12.57		Imp		Dark grey non-calcareous mudstone with rare thin black beds. Interval contains minor 4x1 mm pyrite flakes (lay parallel to bedding) ~ 1 flake every 10-20 cm. Rare quartz veining along fractures. Black beds tend to get more prevalent near bottom of interval. @ 300.31-300.09 m a med grey fine grained sandy layer occurs.														291.39	294.44	3.05	2.88	0.978	2.80	92	FR	W		2	70	2	2	A
																						294.44	297.49	3.05	3.04	1.022	2.78	91	FR	W		2	70	2	2	A
bed	70-74	303.6	317.7	14.09		Imp		Dark grey non-calcareous mudstone with rare thin black beds with 2 cm diameter concretions/nodules at 313.65 and 314.25 m.														297.49	300.53	3.04	3.08	1.025	2.93	96	FR	W		2	70	2	2	A
																						300.53	303.58	3.05	2.71	0.893	2.61	86	FR	W		1	70	2	2	A
																						303.58	306.63	3.05	3.20	1.044	3.08	##	FR	W		2	70	2	2	A
																						306.63	309.68	3.05	3.01	0.972	2.90	95	FR	W		1	70	2	2	A
																						309.68	312.73	3.05	3.01	0.962	1.98	65	FR	W		5	70	2	2	A
																						312.73	315.77	3.04	3.02	0.956	1.72	57	FR	W		5	70	3	3	A
bed	50-60	317.7	321.7	4.01		Imp		Dark grey non-calcareous mudstone with 9 cm wide med grey non-calcareous mudstone beds every 1-1.5 m, increasing in frequency near the end of the interval. @ 319.02 there is a 0.5 cm wide crack-seal texture quartz vein.														315.77	318.82	3.05	3.02	0.947	0.36	12	FR	W		10	70	2	2	A
v	78																					318.82	321.87	3.05	2.99	0.929	0.60	20	FR	W		8	70	2	2	A
bed	62	321.7	324.3	2.6		Imp		dark grey mudstone with rare thin black mudstone beds.														321.87	324.92	3.05	2.28	0.702	1.03	34	FR	W		3	70		2	A
								dark grey non-calcareous mudstone with 2% thin black mudstone beds and 1-2 cm diameter nodules ~1 per 1 m; occur more frequently with black beds. Minor quartz vein @ 324.38 where 0.3 cm dip 10. Off shoots in quartz vein occur along bedding (offshoots contains rare subangular DMe clast). @ 324.4 & 324.83 m 0.4 cm wide quartz breccias (~15% quartz matrix rest is DMe cherty siltstone clasts) dip along bedding.																												
bed	60	324.3	340.3	16		Imp																324.92	327.96	3.04	2.98	0.909	2.89	95	FR	W		1	70	2	2	A
v	10																					327.96	331.01	3.05	3.01	0.909	2.78	91	FR	W		2	70	2	2	A
																						331.01	334.06	3.05	2.90	0.868	2.70	89	FR	W		2	70	2	2	A
																						334.06	337.11	3.05	3.04	0.902	2.65	87	FR	W		2	70	2	2	A
																						337.11	340.16	3.05	3.03	0.891	2.46	81	FR	W		3	70	2	2	A
bed	55-65	340.3	343.1	2.74		Imp		dark grey non-calcareous mudstone with minor thin black beds @ 341.42 m a 2 cm band of pinch and swelling pyrite beds for a total of 80% pyrite.				pyrite										340.16	343.21	3.05	3.03	0.883	2.58	85	FR	W		3	70	2	2	A
bed	50-55	343.1	351.2	8.14		Imp		dark grey non-calcareous mudstone with 2% thin black beds and 4 cm wide med grey beds every 1.5 m 1x2 cm pyrite clot @ 340.94 m.				pyrite										343.21	346.25	3.04	2.85	0.823	2.07	68	FR	W		4	70	2	2	A
																						346.25	349.28	3.03	3.03	0.867	1.95	64	FR	W		3	70	2	2	A
																						349.28	352.30	3.02	2.88	0.817	2.60	86	FR	W		2	70	2	2	A
bed	60	351.2	353.1	1.92		imp		dark grey non-calcareous mudstone with 5% disseminated pyrite. At beginning 11 cm of int. 90% pyrite and @ last 8 cm of int. 80% pyrite. (bed 30 at start and 45 at end)				pyrite										352.30	355.40	3.10	2.93	0.824	2.70	87	FR	W		2	70	2	2	A
bed	45																																			
bed	55	353.1	353.8	0.71		Imp		dark grey non-calcareous mudstone with t disseminated pyrite				pyrite																								
bed	55	353.8	354	0.23		Imp		dark grey non-calcareous mudstone 4% disseminated pyrite (minor 4 mm wide horizons barren of sulphides.)				pyrite																								

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Struct.		LITHOLOGY							Notes:	ALT.		MINERALS			SAMPLES							Blocks			GEOTECHNICAL						JOINTS				
		From (m)	To (m)	Interval (m)	Type	Unit	Texture	Modifier		From (m)	To (m)	Interval (m)	Sample				From (m)	To (m)	Intvl. (m)	REC		RQD		Weathering	Hardness	Frequency	Attitude	Shape	Roughness	Infilling					
(m)	Percent																			(m)	Percent														
bed	56	354	355.4	1.36		Imp		dark grey non-calcareous mudstone with 1% disseminated pyrite and 2% 1-5 mm wide black siltstone horizons.				pyrite																							
bed	55	355.4	365.2	9.84		Imp		dark grey non-calcareous mudstone with t disseminated pyrite and 5 mm fine grained pyrite beds in groups of 1-4 every 1-1.5 m. (bedding 35 @ beginning and end of interval and 25 in the middle)				pyrite				355.40	358.44	3.04	2.86	0.798	2.36	78	FR	W		3	70	2	2	A					
	65															358.44	361.49	3.05	2.83	0.783	2.09	69	FR	W		2	70	2	2	A					
	55															361.49	364.54	3.05	2.89	0.793	2.44	80	FR	W		2	70	2	2	A					
bed	56	365.2	367.5	2.25		Imp		dark grey non-calcareous mudstone with 10% black siltstone beds (minor soft sediment deformation) ~1% disseminated pyrite.				pyrite				364.54	367.59	3.05	3.03	0.824	2.55	84	FR	W		2	70	2	2	A					
bed	51	367.5	371.8	4.28		Imp		dark grey non-calcareous mudstone with 2% 1-5 mm wide black beds (more prevalent at start of interval). 0.5-0.8 cm wide pyrite beds every 50 cm, changing to lines of blebs near end of interval. @ 368.37-368.49 m quartz veining parallel to bedding 3-6 mm wide for ~40% of rock.				pyrite				367.59	370.64	3.05	2.57	0.693	1.10	36	FR	W		5	70	2	2	A					
bed	59	371.8	377.4	5.59		Imp		Heavily fractured dark grey mudstone with minor pyrite bands. On ~25% of fractures shiny graphitic coating.				pyrite				370.64	373.69	3.05	2.19	0.586	1.02	33	FR	W		4	70	2	2	A					
																373.69	376.73	3.04	2.05	0.544	0.00	0	FR	W		15	70	2	2	A					
bed	51	377.4	377.8	0.47		Imp		dark grey non-calcareous mudstone with 1% disseminated pyrite and 1 mm wide pyrite bands every 2-3 cm.				pyrite				376.73	379.78	3.05	2.62	0.69	0.52	17	FR	W		13	70	2	2	A					
bed	58	377.8	382.8	4.94		Imp		dark grey non-calcareous mudstone with t disseminated pyrite and 1-3 mm wide pyrite bands every 50 cm disseminated pyrite more prevalent near pyrite bands. 1-2% quartz veinlets from 379.15 to 379.28 m.								379.78	382.83	3.05	1.40	0.366	0.00	0	FR	W		17	70	2	2	A					
F?	??	382.8	383.1	0.3		Imp		dark grey highly fractured clayey fault gauge.								382.83	385.88	3.05	2.52	0.653	0.00	0	FR	W		17	70	2	2	A					
								dark grey highly fractured non-calcareous mudstone with trace disseminated pyrite and 3 mm wide pyrite bands ~ every 1.5 m. ~25% of fractures have shiny graphitic coating.				pyrite																							
bed	57	383.1	385.7	2.64		Imp		dark grey non-calcareous mudstone with 1% disseminated pyrite (occurring along v thin beds) with 3 mm wide pyrite beds every 10-40 cm.				pyrite				385.88	388.93	3.05	2.62	0.674	0.42	14	FR	W		10	70	2	2	A					
bed	56	390	390.2	0.24		Imp		med-dark grey calcareous siltstone with minor pyrite beds.				pyrite				388.93	391.97	3.04	2.80	0.714	0.42	14	FR	W		11	70	2	2	A					
bed	57	390.2	397	6.82		Imp		dark grey non-calcareous mudstone with t disseminated pyrite and 0.5 cm wide pyrite bands ~ every 1.5 m. Near end of the interval ~20% of fractures have shiny graphitic coating. Trace <1 mm wide calcite veining along bedding at end of interval.				pyrite				391.97	395.02	3.05	2.52	0.638	0.00	0	FR	W		14	70	2	2	A					
																395.02	398.07	3.05	2.62	0.658	0.57	19	FR	W		10	70	2	2	A					
bed	45	397	397.5	0.48		Imp		med-dark grey calcareous siltstone interbedded with ~30% black beds.								398.07	401.12	3.05	2.70	0.673	0.32	10	FR	W		11	70	2	2	A					

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Struct.		LITHOLOGY								ALT.		MINERALS			SAMPLES							Blocks			GEOTECHNICAL						JOINTS					
		From (m)	To (m)	Interval (m)	Type	Unit	Texture	Modifier																	REC		RQD		Weathering	Hardness					Frequency	Attitude
Type	Attitude							Notes:																												
bed	55	397.5	407.7	10.22		Dme		dark grey non-calcareous cherty siltstone. Fractures easily along bedding t disseminated pyrite and pyrite beds 2-4 mm wide every 1 m. Thickness of pyrite beds decreases to < 1mm and frequency increases to every 50 cm by end of interval. Calcite vein, apparently steeply dipping at least 0.5 cm wide just nicked by drill, @402.62 m.				pyrite																								
bed	50	407.7	408.8	1.02		Dme		med-dark grey calcareous slightly sandy siltstone with minor calcite stringers –parallel to bedding (though slightly erratic).																												
bed	58	408.8	410.9	2.13		Dme		dark grey non-calcareous cherty siltstone with t disseminated pyrite and 0.5-1 cm wide pyrite occurring				pyrite																								
F?	???	410.9	411.3	0.4		Dme		dark grey-black heavily fractured gauge; fault?																												
bed	70	411.3	413.3	2.02		Dme		heavily fractured dark grey non-calcareous cherty siltstone																												
bed	65	413.3	414.3	0.99		Dme		med-dark grey calcareous siltstone with rare 1 mm pyrite beds and minor calcite stringers @ 10 degrees.																												
bed	59	414.3	418.1	3.76		Dme		dark grey non-calcareous cherty siltstone with rare 1 mm wide pyrite beds.				pyrite																								
bed	59	418.1	432.2	14.13		Dme		dark grey non-calcareous cherty siltstone with t disseminated pyrite and 1-4 mm wide pyrite bands every 10-30 cm.				pyrite																								
bed	65																																			
bed	56																																			
bed	59																																			
bed	45	432.2	432.9	0.75		Dme		med-dark grey calcareous siltstone																												
bed	50	432.9	444.3	11.33		Dme		dark grey non-calcareous cherty siltstone. First 5 cm ~40% 3 mm wide calcite veins @ 80 degrees. Thin pyrite beds ~every 50-75 cm.				pyrite																								
bed	58																																			
bed	55																																			
bed	62	444.3	460.4	16.08		Dme		dark grey non-calcareous cherty siltstone with t 2 mm wide pyrite beds, heavily fractured. Concentration of pyrite beds increases with depth until ~1 every 50 cm near bottom of int.				pyrite																								
	59																																			
	56																																			
	55																																			
	55																																			
	55																																			
	55																																			
	55																																			
F?	??	460.4	460.6	0.2		Fault?		heavily fractured DMe; slightly gaugey, fault?																												
bed	58	460.6	468	7.41		Dme		dark grey non-calcareous cherty siltstone with ~1-2% 1 mm thick pyrite bands/band of blebs				pyrite																								
	75																																			
	60																																			
F?	??	468	468.2	0.21		Fault?		dark grey gauge (fault?) poor recovery in this area																												
bed	70	468.2	468.8	0.66		Dme		dark grey non-calcareous cherty siltstone with 1-2 mm pyrite bands every 10-30 cm.				pyrite																								

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HOLE: RI08-24

Struct.		LITHOLOGY							Notes:	ALT.		MINERALS			SAMPLES							Blocks			GEOTECHNICAL					JOINTS				
		From (m)	To (m)	Interval (m)	Type	Unit	Texture	Modifier		From (m)	To (m)	Interval (m)	Sample				From (m)	To (m)	Intvl. (m)	REC		RQD		Weathering	Hardness	Frequency	Attitude	Shape	Roughness	Infilling				
(m)	Percent																			(m)	Percent													
bed	50	468.8	470.1	1.24		Dme		med-dark grey non-calcareous cherty siltstone with ~3% < 1mm wide pyrite beds ~ equally spaced (beds thicker near top of interval). Trace erratic thin calcite veins.				pyrite																						
bed	60	470.1	488.7	18.67		Dme		dark grey non-calcareous cherty siltstone with minor <1 mm wide calcite veining. 0.5% pyrite blebs along bedding.				pyrite				471.22	474.26	3.04	2.31	0.487	0.71	23	FR	W	9	60	2	2	A					
v	15															474.26	477.32	3.06	1.15	0.241	0.00	0	FR	W	5	70	2	2	A					
	60															477.32	480.37	3.05	2.82	0.587	0.21	7	FR	W	10	70	2	2	A					
																480.37	483.41	3.04	2.61	0.54	0.59	19	FR	W	6	60	2	2	A					
																483.41	486.46	3.05	2.48	0.51	0.21	7	FR	W	4	60	2	2	A					
																486.46	489.51	3.05	2.35	0.48	0.14	5	FR	W	7	60	2	2	A					
bed	60	488.7	500.6	11.83		Dme		dark grey non-calcareous cherty siltstone with ~ 2% pyrite blebs along bedding planes (blebs ~ 0.5 mm x 1 mm but can be up to 1 mm x 5 mm). Trace v thin calcite veins.				pyrite				489.51	492.56	3.05	2.97	0.603	0.00	0	FR	W	10	60	2	2	A					
v	70															492.56	495.61	3.05	2.27	0.458	0.10	3	FR	W	4	70	2	2	A					
																495.61	498.65	3.04	2.91	0.584	0.33	11	FR	W	4	70	2	2	A					
		500.6	501.7	1.17		Dme		dark grey non-calcareous cherty siltstone t pyrite and extensive graphitic coating				pyrite				498.65	501.70	3.05	2.83	0.564	0.40	13	FR	W	3	70	2	2	A					
bed	32	501.7	502.7	1		Dme		dark grey non-calcareous cherty siltstone with ~3% pyrite occurring as blebs along bedding planes.				pyrite				501.70	504.75	3.05	3.03	0.6	1.52	50	FR	W	3	70	2	2	A					
bed	42	502.7	508.3	5.58		Dme		dark grey non-calcareous cherty siltstone with ~1% pyrite in small flakes parallel to bedding. @ 504.61 m a 0.5 cm wide calcite vein offset 1 cm by a healed fracture at 20 degrees.				pyrite																						
bed	60															504.75	507.80	3.05	2.44	0.481	1.56	51	FR	W	7	70	2	2	A					
bed	60-63	508.3	512.6	4.25		Dme		dark grey non-calcareous cherty siltstone with minor disseminated pyrite and ~2% pyrite occurring as bands of blebs through-out interval. Trace calcite veining <1 mm wide				pyrite				507.80	510.85	3.05	2.90	0.568	0.53	17	FR	W	8	70	2	2	A					
v	20															510.85	513.89	3.04	3.01	0.586	0.45	15	FR	W	6	70	2	2	A					
bed	45	512.6	521.1	8.55		Dme		dark grey non-calcareous cherty siltstone with ~0.5% pyrite occurring as 1-2 mm blebs along bedding. Erratic calcite veining occurs between 512.90-513.09 m and between 518.16-518.30 m (~2% of rock) as 1 mm wide veins. Calcite coats ~10% of fractures and minor graphite coats some other fractures.				pyrite				513.89	516.94	3.05	2.43	0.47	0.21	7	FR	W	2	70	2	2	A					
bed	35															516.94	519.99	3.05	2.50	0.481	0.41	13	FR	W	5	70	2	2	A					
bed	20															519.99	521.51	1.52	1.71	0.328	0.12	8	FR	W	2	70	2	2	A					
		521.1	522.4	1.24		Dme		dark grey non-calcareous cherty siltstone with erratic quartz veining (~4% of rock) veins are predominantly parallel to bedding but also cut across beds. Veins range from <1 mm to 1 cm wide. Some have a minor calcite component. Large fracture @ 521.63 m contains extensive graphitic coating. 0.5% pyrite blebs along bedding.				pyrite				521.51	523.04	1.53	1.10	0.21	0.23	15	FR	W	5	70	2	2	A					
bed	65	522.4	524.3	1.9		Dme		dark grey non-calcareous cherty siltstone, highly fractured with minor disseminated pyrite.				pyrite				523.04	525.48	2.44	1.85	0.352	0.24	10	FR	W	2	70	2	2	A					

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Struct.		LITHOLOGY							Notes:	ALT.		MINERALS			SAMPLES							Blocks			GEOTECHNICAL						JOINTS				
		From (m)	To (m)	Interval (m)	Type	Unit	Texture	Modifier		From (m)	To (m)	Interval (m)	Sample				From (m)	To (m)	Intvl. (m)	REC		RQD		Weathering	Hardness	Frequency	Attitude	Shape	Roughness	Infilling					
(m)	Percent																			(m)	Percent														
bed	76 70	524.3	527.5	3.22		Dme		dark grey non-calcareous cherty siltstone with 0.5% pyrite blebs along bedding and t. calcite on fractures. Bedding ranges from 65 degrees at the beginning to 76 degrees at end of the interval.					pyrite					525.48	528.52	3.04	2.85	0.539	0.30	10	FR	W		6	70	2	2	A			
bed	60 65	527.5	528.8	1.28		Dme		dark grey non-calcareous cherty siltstone with 1% pyrite blebs (1x2 mm). 3 mm wide calcite veins occur parallel to bedding every 10-20 cm. Bedding starts at 70 degrees and ends at 60 degrees.				pyrite																							
bed	59 57 40	528.8	533.9	5.17		Dme		dark grey non-calcareous cherty siltstone with 1-2% pyrite along bedding in blebs 1x3 mm.				pyrite					528.52 530.66 532.18	530.66 532.18 534.31	2.14 1.52 2.13	1.60 1.81 2.08	0.302 0.34 0.389	0.00 1.34 1.44	0 88 68	FR FR FR	W W W	11 6 4	70 70 70	2 2 2	2 2 2	A A A					
bed	50 55	533.9	538	4.05		Dme		dark grey non-calcareous cherty siltstone with 1% blebby 1 mm wide pyrite bands and 1-2% 0.5 cm wide quartz veins parallel to bedding with variable amounts of calcite (0-50%) in veinlets perpendicular to the main vein)				pyrite					534.31 535.23	535.23 538.28	0.92 3.05	0.94 3.03	0.176 0.563	0.40 1.04	43 34	FR FR	W W	6 7	70 70	2 2	2 2	A A					
bed	65	538	541.3	3.34		Dme		dark grey non-calcareous cherty siltstone with 2% 1-2 mm wide pyrite beds (slightly blebby) and trace calcite stringers along bedding.				pyrite					538.28	541.32	3.04	2.70	0.499	0.65	21	FR	W	8	70	2	2	A					
		541.3	541.5	0.17		Dme		fine grained med grey sandstone - calcareous									541.32	544.37	3.05	2.75	0.505	1.63	53	FR	W	4	70	2	2	A					
bed	37 45	541.5	549.1	7.59		Dme		dark grey non-calcareous cherty siltstone with 1% pyrite blebs and bands ~0.5-1 mm thick 1 calcite vein along bedding (top contact 55, bottom contact 65)				pyrite					544.37	547.42	3.05	2.61	0.477	1.20	39	FR	W	6	70	2	2	A					
bed	40	549.1	549.7	0.65		Dme		med-dark grey calcareous siltstone with minor erratic calcite veining @ end of interval, terminates with 0.5 cm wide irregular pyrite beds.				pyrite					547.42	550.47	3.05	2.89	0.525	0.98	32	FR	W	3	70	2	2	A					
		549.7	550.1	0.33		Dme		dark grey non-calcareous cherty siltstone				pyrite																							
bed	60	550.1	550.2	0.09		Dme		med grey fine grained calcareous sandstone that terminates in a 4 mm wide pyrite band.				pyrite					550.47	553.52	3.05	2.41	0.435	0.73	24	FR	W	6	70	2	2	A					
		550.2	551.6	1.4		Dme		dark grey non-calcareous cherty siltstone with 0.5 cm wide quartz veins parallel to bedding every 10-30 cm. One group of 4 calcite veins from <1 mm wide to 2 mm wide erratic but ~ perpendicular to bedding. @ 551.12 m ~ three 4 mm wide pyrite beds across interval.				pyrite					553.52	556.56	3.04	2.48	0.446	0.20	7	FR	W	5	70	2	2	A					
		551.6	556.9	5.34		Dme		dark grey non-calcareous cherty siltstone with ~1% pyrite blebs and bands along bedding erratic calcite stringers @ 553.52 and 554.54 m and rare 3 mm wide quartz veins along bedding				pyrite																							

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