

## PROJECT: NIMO

**PROPERTY: EI**

**HOLE: DDH-EL-08-20**

Easting	Northing	Elev.	Depth (m)
460378	7304526	324	290.47

Contractor: Oro Fino  
Drill: Zinex A5 B20

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar							
	30	70					

Core size: NQ  
Cassing depth: 25.00 (m) out  
Drilling dates: April 21 - 27, 2008  
Logged by: D. Gregory

Target: NiMo sulphide horizon

[illegible]

SAMPLES	
Numbers:	C386411-C386415
Total:	5
Date sent:	

COMMENTS	

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HOLE: DDH-EI08-20

Struct.		LITHOLOGY							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
Type	Attitude							Notes:																(m)	Percent	(m)	Percent								
		0	19.2	19.2		OVBD		pebble to cobble sized stones of variable composition; old stream bed.												0.00	10.10	10.10	1.10	0.11	0.00	0	3	ES							
																				10.10	12.50	2.40	0.16	7	0.00	0	3	ES							
																				12.50	14.30	1.80	0.50	28	0.00	0	3	ES							
																				14.30	18.30	4.00	0.10	3	0.00	0	3	ES							
																				18.30	19.20	0.90	0.08	9	0.00	0	3	ES							
bed	68	19.2	26.8	7.6		Dme		dark brown/grey mudstone; highly fractured with minor quartz veining along fracture. Homogeneous with bedding difficult to ascertain, 68 where observed. non-calcareous	x	clay										19.20	23.20	4.00	0.40	10	0.00	0	2	VW							
																				23.20	25.30	2.10	1.00	48	0.00	0	2	VW							
																				25.30	26.80	1.50	0.60	40	0.00	0	3	VW							
bed	70	26.8	33.2	6.4		Dme		dark brown/grey mudstone, moderately fractured (average of 3cm long pieces) minor quartz veining along fractures. Fractures appear to be bedding controlled. Soft. Non-calcareous	w	clay										26.80	28.30	1.50	1.50	100	0.00	0	6	W							
																				28.30	31.40	3.10	3.10	100	1.08	35	7	w	5.8	75	3	2	a		
																				31.40	34.40	3.00	3.00	100	0.98	33	7	w	8.3	75	3	2	a		
bed	66	33.2	40.35	7.15		Dme		dark brown/grey mudstone weakly fractured (pieces ~ 10cm long). Trace quartz stringers << 1mm wide. Soft. Non-calcareous.	t	clay										34.40	37.40	3.00	3.00	100	1.44	48	9	w	6.7	75	3	2	a		
																				37.40	40.50	3.10	3.10	100	1.06	34	9	w	8.1	75	2	2	a		
bed	68	40.35	52.25	11.9		Dme		interbedded med brown and dark brown/grey mudstone layers varying from nearly 100% brown mudstone at top of the interval to 70% brown mudstone at bottom. Occurs in 0.3-0.5 cm thick beds. V. soft Non-calcareous.	t	clay										40.50	43.60	3.10	3.06	99	1.06	34	8	w	7.5	75	2	2	a		
																				43.60	46.60	3.00	3.00	100	0.74	25	8	w	9.3	75	2	2	a		
																				46.60	49.70	3.10	2.16	70	0.30	10	8	w	12	75	2	2	a		
																				49.70	52.70	3.00	2.70	90	0.90	30	8	w	9.3	75	2	2	a		
v	50	52.25	56.58	4.33		Dme		interbedded med brown and dark brown/grey mudstone layers (70/30 % respectively). Occurs in .3-.5 cm thick beds. V. soft Non-calcareous. Heavily fractured and gaugey near centre of interval, possible fault zone?	t	clay										52.70	55.80	3.10	1.14	37	0.00	0	5	w	7	75	2	2	a		
f(?)	50																																		
v	50	56.58	61.9	5.32		Dme		interbedded med brown and dark brown/grey mudstone layers (80/20 % respectively) layers 4mm thick. Soft, non-calcareous. 1% quartz 3mm wide veining along fractures.	w-m	clay										55.80	58.80	3.00	2.32	77	0.34	11	5	w	7.8	75	2	2	a		
																				58.80	61.90	3.10	1.31	42	0.00	0	5	w	12	75	2	2	a		
bed	80	61.9	67.25	5.35		Dme		interbedded med brown and dark brown/grey mudstone layers (95/5 % respectively) layers 4mm thick. Soft, non-calcareous. Minor soft sediment deformation. @61.76-61.83m 10% pyrite bands along bedding.		pyrite										61.90	64.90	3.00	3.08	100	1.06	35	9	w	8.4	75	3	2	a		
																				64.90	68.00	3.10	2.90	94	0.00	0	7	w	8.6	75	3	2	a		

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LITHOLOGY								Notes:	ALT.			MINERALS			SAMPLES						Blocks			GEOTECHNICAL						JOINTS						
Struct.		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
Type	Attitude																									(m)	Percent	(m)	Percent							
f(?)	?	67.25	68	0.75		Dme			brown mudstone. Fractured rock, slightly gaugey. Possible fault? non-calcareous	m clay						68.00	71.00	3.00					68.00	71.00	3.00	2.98	99	1.27	42	7 w	6	75	3	2	a	
bed	83	68	75.71	7.71		Dme			brown mudstone w minor interbedding of dark brown/grey mudstone. @ 73.8m 5mm wide pyrite band along bedding. non-calcareous				pyrite			71.00	74.10	3.10					71.00	74.10	3.10	3.10	100	1.48	47	9 w	7.1	75	2	2	a	
bed	77	75.71	90.44	14.73		Dme			dark brown/grey mudstone contains 2-3 cm lighter coloured nodules (@ 83.94, 84.44 and 85.23 m). Signs of minor soft sediment deformation. Soft and non-calcareous							74.10	77.10	3.00					74.10	77.10	3.00	3.00	100	1.65	55	10 w	6.3	75	2	2	a	
																77.10	80.20	3.10					77.10	80.20	3.10	3.10	100	1.45	47	9 w	7.1	75	2	2	a	
																80.20	83.20	3.00					80.20	83.20	3.00	2.72	91	0.60	20	9 w	7.4	75	2	2	a	
																83.20	86.30	3.10					83.20	86.30	3.10	3.03	98	0.77	25	9 w	7.6	75	2	2	a	
																86.30	89.30	3.00					86.30	89.30	3.00	3.06	100	0.32	11	8 w	8.5	75	2	2	a	
bed	65	90.44	92.2	1.76		Dme			dark brown/grey mudstone with 3% disseminated pyrite in cubes up to .5mm wide. Shows signs of soft sediment deformation. Soft and non-calcareous				pyrite			89.30	92.40	3.10					89.30	92.40	3.10	3.18	100	1.29	42	9 w	7.2	75	2	2	a	
bed	65	92.2	98.66	6.46		Dme			dark brown/grey mudstone with 3% disseminated pyrite and bands/nodules of 15-20% pyrite every 15-30 cm. Nodules are surrounded by 20-50% halos with 10% or less pyrite in centres; occasionally with high pyrite cores. Soft and non-calcareous.							92.40	95.40	3.00					92.40	95.40	3.00	2.90	97	2.07	69	10 w	5.9	75	2	2	a	
																95.40	98.50	3.10					95.40	98.50	3.10	3.03	98	1.97	64	10 w	5.3	75	2	2	a	
bed	75	98.66	102.5	3.88		Dme			dark brown/grey mudstone with 0.5% disseminated pyrite and pyrite blebs along bedding 0.2 to 0.5 cm wide every 50-100 cm. Soft and non-calcareous with m. clay alt along 5% of fractures.	m clay			pyrite			98.50	101.50	3.00					98.50	101.50	3.00	2.90	97	1.45	48	10 w	5.5	75	2	2	a	
bed	85	102.5	106.5	3.96		Dme			dark brown/grey mudstone mod hardness ~3% thin (>1mm) pyrite beds. 2-3mm bands occur every 15-30 cm. Centred at 105.5 m a 15 cm band of ~ 10% pyrite blebs. Non-calcareous				pyrite			101.50	104.60	3.10					101.50	104.60	3.10	3.06	98	0.36	12	7 w	6.2	75	2	2	a	
bed	85	106.5	127	20.45		Dme			dark grey cherty siltstone. Hard. ~ 1% <1mm pyrite beds every 60-80 cm there are 6-15 cm wide bands with thicker pyrite beds (up to 3 mm) and/or 2-3 mm blebs for a total of 5-10% pyrite in these bands. Non-calcareous.				pyrite			104.60	107.60	3.00					104.60	107.60	3.00	2.50	83	0.29	10	7 w	10	75	2	2	a	
																107.60	110.60	3.00					107.60	110.60	3.00	2.84	95	0.10	3	6 w	12	75	2	2	a	
																110.60	113.70	3.10					110.60	113.70	3.10	2.70	90	0.20	7	6 w	13	75	2	2	a	
																113.70	116.70	3.00					113.70	116.70	3.00	2.98	99	0.20	7	6 w	14	75	2	2	a	
																116.70	119.70	3.00					116.70	119.70	3.00	2.94	98	0.59	20	7 w	12	75	2	2	a	
																119.70	122.80	3.10					119.70	122.80	3.10	2.94	95	0.41	13	6 w	12	75	2	2	a	
																122.80	125.90	3.10					122.80	125.90	3.10	3.08	99	1.91	62	10 w	5.8	75	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						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							
Type	Attitude							Notes:																											
bed	88	127	134.3	7.36		Dme		dark grey cherty siltstone. Hard. T disseminated pyrite ~ every 0.5-1 m 2mm wide pyrite bands. Non-calcareous.				pyrite									125.90	129.00	3.10	3.03	98	1.07	35	8 w	8.9	75	2	2 a			
																					129.00	132.00	3.00	3.00	100	0.57	14	7 w	13	75	2	2 a			
																					132.00	135.00	3.00	3.00	100	0.42	14	6 w	12	75	2	2 a			
bed	88	134.3	140.6	6.25		Dme		dark grey cherty siltstone; hard with t pyrite bands (1 1-2mm wide band every 1-2m) non-calcareous. Bedding 2-3.				pyrite									135.00	138.10	3.10	3.10	100	0.30	10	6 w	15	75	2	2 a			
f(?)	?	140.6	140.8	0.25		Dme		dark grey cherty siltstone. Hard. Heavily fractured, fault zone? Non-calcareous													138.10	141.10	3.00	2.80	93	0.36	12	6 w	11	75	2	2 a			
bed	88	140.8	148.6	7.79		Dme		dark grey cherty siltstone. Mod fractured (6cm long pieces). T disseminated pyrite and 2-3mm pyrite bands along bedding every 15-30 cm. Non-calcareous.				pyrite									141.10	144.20	3.10	3.04	98	1.34	43	8 w	10	75	2	2 a			
bed	88	148.6	152.2	3.6		Dme		dark grey cherty siltstone. Hard. Mod fracture (6cm long pieces). W-t disseminated pyrite in blebs that follow bedding. Non-calcareous.				pyrite									144.20	147.20	3.00	2.78	93	0.36	12	6 w	12	75	2	2 a			
																					147.20	150.30	3.10	2.94	95	0.54	17	7 w	13	75	2	2 a			
																					150.30	153.30	3.00	2.89	96	0.47	16	7 w	14	75	2	2 a			
bed	86	152.2	186.5	34.3		Dme		dark grey cherty siltstone. T disseminated pyrite and 1-2mm pyrite bands along bedding every 15-30 cm. Pyrite bands exhibit "wiggles" due to w soft sediment deformation. Hard. 1-2mm wide calcite bands along bedding every 1.5m. Calcite not present below 171.1m. Near bottom of interval soft sediment def. not present and pyrite bands occur in groups of 2-3. Non-calcareous, except for calcite bands.				pyrite									153.30	156.40	3.10	2.77	89	1.32	43	8 w	9.4	75	2	2 a			
																					156.40	159.40	3.00	2.90	97	1.05	35	8 w	10	75	2	2 a			
																					159.40	162.50	3.10	2.84	92	0.49	16	7 w	14	75	2	2 a			
																					162.50	165.50	3.00	3.23	108	0.70	23	7 w	13	80	2	2 a			
																					165.50	168.60	3.10	2.76	89	1.01	33	8 w	12	80	2	2 a			
																					168.60	171.60	3.00	3.32	111	1.18	39	8 w	9.9	80	2	2 a			
																					171.60	174.70	3.10	2.92	94	0.68	22	7 w	7.2	80	2	2 a			
																					174.70	177.70	3.00	3.00	100	1.23	41	8 w	9.3	80	2	2 a			
																					177.70	180.80	3.10	3.03	98	2.04	66	10 w	5.6	80	2	2 a			
																					180.80	183.80	3.00	3.00	100	1.18	39	8 w	10	80	2	2 a			
																					183.80	186.60	2.80	3.00	100	2.26	75	12 w	5.3	80	2	2 a			
		186.5	188.8	2.3		Dme		dark grey cherty siltstone. T 1mm pyrite bands along bedding. Hard. Non-calcareous.				pyrite									186.80	189.90	3.10	2.85	92	2.01	65	10 w	5.3	85	2	2 a			
bed	85	188.8	199.4	10.58		Dme		dark grey cherty siltstone with t-w disseminated. Pyrite (~0.5%) and pyrite beds 0.5 to 3mm wide irregularly spaced every 10 to 30 cm. Med-high hardness.				pyrite									189.90	192.90	3.00	3.00	100	1.78	59	10 w	6	85	2	2 a			
																					192.90	196.00	3.10	2.86	92	1.14	37	8 w	6.3	85	2	2 a			
																					196.00	199.00	3.00	3.00	100	2.68	89	14 w	4	85	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	Shape	Roughness	Infilling
Type	Attitude							Notes:															(m)	Percent	(m)	Percent									
			199.4	200	0.61		Dme		dark grey cherty siltstone, reacts vigorously with HCl ~0.5% disseminated pyrite (in blebs 1 mm wide)			pyrite									199.00	202.10	3.10	3.04	98	2.28	74	12	w	6.3	85	2	2	a	
			200	206.6	6.64		Dme		dark grey cherty siltstone, 1% disseminated pyrite and 1-2mm wide pyrite bands along bedding ~ every 50cm. Non-calcareous.			pyrite									202.10	205.10	3.00	2.91	97	1.24	41	8	w	8.6	85	2	2	a	
			206.6	206.9	0.28		Dme		med-dark grey cherty siltstone with ~1% disseminated pyrite. Reacts vigorously with HCl. Indeterminable bedding.			pyrite									205.10	208.20	3.10	2.96	96	1.81	58	10	w	6.4	85	2	2	a	
bed	85		206.9	215.3	8.42		Dme		dark grey cherty siltstone with 1-2% disseminated pyrite and thin sporadic pyrite beds; approx 4 per 1m. Show evidence of minor soft sediment deformation.			pyrite									208.20	211.20	3.00	2.96	97	1.32	44	9	w	5.4	85	2	2	a	
			215.3	215.5	0.16		Dme		med-dark grey cherty siltstone with ~1% disseminated pyrite. Reacts vigorously with HCl. Indeterminable bedding.			pyrite									211.20	214.30	3.10	3.07	99	1.61	52	9	w	7.2	85	2	2	a	
																					214.30	217.30	3.00	3.00	100	1.21	40	8	w	9	85	2	2	a	
bed	85		215.5	224.1	8.64		Dme		dark grey cherty siltstone with t disseminated pyrite and 1mm wide pyrite beds ~2 per 1m. Shows evidence of minor soft sediment deformation. Non-calcareous. @273.21 and 223.67m 1 cm thick calcite breccia (60% calcite matrix and 40% angular cherty dark grey siltstone fragments).			pyrite									217.30	220.40	3.10	2.96	96	0.35	11	6	w	12	85	2	2	a	
																					220.40	223.40	3.00	2.95	98	0.23	8	6	w	18	85	2	2	a	
bed	85		224.1	246.4	22.27		Dme		dark grey cherty siltstone with t disseminated pyrite and thin (<< 1mm wide) beds; pyrite horizons are more frequent at bottom of interval. Non-calcareous. V. hard. 1-2mm thick calcite veins parallel to bedding occur every 1-2m.			pyrite									223.40	226.50	3.10	2.75	89	0.39	13	6	w		85	2	2	a	
																					226.50	229.50	3.00	3.00	100	1.20	40	8	w	8.7	85	2	2	a	
																					229.50	232.60	3.10	2.98	96	1.27	41	8	w	10	85	2	2	a	
																					232.60	235.60	3.00	3.09	103	2.00	67	12	w	6.8	85	2	2	a	
																					235.60	238.70	3.10	3.02	97	2.49	80	13	w	6	85	2	2	a	
																					238.70	241.70	3.00	2.93	98	2.47	82	13	w	4.8	85	2	2	a	
																					241.70	244.80	3.10	3.04	98	1.47	49	10	w	8.2	85	2	2	a	
	80		246.4	246.5	0.05		Dme		calcite breccia ~60% calcite matrix with 0.5cm wide angular Dme chert clasts. Clasts are actively being ripped up from wall of breccia.			pyrite									244.80	247.80	3.00	3.10	103	2.41	80	13	w	5.8	85	2	2	a	
bed	83		246.5	259	12.54		Dme		dark grey cherty siltstone. t disseminated pyrite and 1-2mm wide pyrite beds along bedding ~ every 1 m. Non-calcareous. Rare 1-2mm thick calcite bands.			pyrite									247.80	240.90	3.10	3.02	97	1.55	50	10	w	9.3	85	2	2	a	
																					250.90	253.90	3.00	2.95	98	0.77	26	7	w	11	85	2	2	a	
																					253.90	257.00	3.10	2.96	92	0.21	7	6	w	10	85	2	2	a	

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