ARCHER, CATHRO & ASSOCIATES (1981) LIMITED PROJECT NICK PROPERTY NICK HOLE NO. N-89-14 Page 1 of 3

Elevation	1241m	Drill contractor	CARON.	Logged by	D. PARRY	Total depth	479' (145.99m)
Coordinates	5+40m N, 6+80m W	Hole started		completed		Core size	NQ
Dip	-80°	Target	VAESITE BEARING HORIZON NORTH OF THE DISCOVERY SHOWING IN SYNCLINE.				
Azimuth	045°						

Depth (m)	% Recov	Visual Log	Struct	Lithology	Alteration	Sulphide & Alteration Mineralogy: PY	VAE					QZ	CA	EP	Sample Number	Assay Interval	Assay Results					
	0 100			CASING TO 1.83m. 1.83m. DK GREY TO BLUE GREY ARGILLITE. -FINE GRAINED SILTY PARTICLES. IRON STAIN ON FRACTURES IN		1%																
5	98 100 82 100		9° 78° 81° 25° 79°																			
10	87 100 98 100		33° 76° 46° 32° 19°	BLACK ARGILLITE - TURBIDITIC LAYERING VISIBLE. 10.0m OPEN MICROSCOPIC FOLDS IN BEDDING LAMELLAE. 11.61m 6 BANDS OF PY WITH FINE LAMELLAE OF PY ABOVE AT APPROX. 15cm INTERVALS.		2%																
15	92 100		16° 22° 45° 22° 18° 77°	BRECCIA ZONE (~1m WIDE) FINE ANGULAR FRAGMENTS. 17.29m QZ-CHALCEDONY STRINGER AT BOX SURFACES.	WHITE PPT IN FRACTURES.							10%										
20	99 90 89 100 100			19.28m PY BAND <1cm.		3%																
25	83 99 94		37° 70°	24.23m - 24.27m WHOLE ROCK SAMPLE TAKEN FOR PETROGRAPHIC STUDIES IF NECESSARY. PYRITE BAND W/ DIAGENETIC PY. IN CORE. 27.01m 6mm THICK PY BAND.		2%																
30	100		17° 77°	29.50 - 29.60m SAMPLE TAKEN FOR PETROGRAPHIC WORK IF NECESSARY. SERIES OF PY LAMELLAE WITH PY BAND AT BASE. (1CM THICK)																		
35	96		26° 79° 33° 76°			1%																
40	100			38.10m COLOUR CHANGE. FROM DK GREY TO BLACK. 41m MINOR CARBONATE PRESENT. WEAK GREY DISCOLOURATION.	NO ALTERATION.																	
45	99 100																					
	99			47.57m LT. GREY TO MED. GREY LAMINATED LIMESTONE. 49.80m SHEARED GRAPHITIC CNT. AT 80m.																		

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Elevation
Coordinates
Dip -80°
Azimuth 045°

Drill contractor CARON
Hole started completed
Target VAESITE BEARING HORIZON

Logged by D. PARRY

Total depth 479' (145.99m)
Core size NQ

Depth (m)	% Recov	Visual Log	Struct	Lithology	Alteration	Sulphide & Alteration Mineralogy: PY	VAE					GZ	CA	EP	Sample Number	Assay Interval	Assay Results					
				TURBIDITIC BLACK ARGILLITE W/ DISSEMINATED PYRITE.		<V.																
55	99	⊥ ⊥ ⊥ ⊥ ⊥ ⊥	74° 68° 38°	FINE BANDS OF CALCITE RICH, SILICEOUS TURBIDITE. (DK GREY - BLACK WHEN WET / LT.-MED. GREY - DRY)																		
60	99	⊥ ⊥ ⊥ ⊥	70°	THICK BEDDING (20-50 cm) TURBIDITE SEQUENCES. POORLY DEVELOPED. 2.5CM. BANDS LT GREY-(LIMY)/DK GREY (SILICEOUS)																		
65	100	⊥	75°	63.50M LST. BECOMES LESS FREQUENT. 65.00M DISSEM. PY. IN LAMELLAE. PY. BANDS UPTO 6MM THK.		1%																
70	100		15° 17° 77°	68.14 TO 68.16 QUARTZ BAND W/DISSEM PY. 71.96m PY BAND 4MM. 72.03m PY BAND 8 MM		8% 10%						7%										
75	100		75°	73.46m WEAK BRECCIATION. 73.66m PY BAND 8MM ARGILLITE BECOME HARDER.		1%																
80	98		77° 78°																			
85	100		70° 70°																			
90	99		68° 68° 26° 55° 30°	CARBONACEOUS FRACTURE SURFACE		1%																
95	100		26°	WITH QUARTZ-CHALCEDONY STRESS SHADOWS IN SHALE ON EITHER SIDE. FRACTURE ROUGHLY PARALLEL TO CLEAVAGE.																		
			70°	DK. GREY MUDSTONE.																		

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Dip -80°	Target VAESITE BEARING HORIZON		
Azimuth 045°			

Depth	% Recov	Visual Log	Struct	Lithology	Alteration	Sulphide & Alteration Mineralogy: PY	VAE					QZ	CA	EP	Sample Number	Assay Interval	Assay Results: PE (ppb)	Pd (ppb)	Au (ppb)	Ni (ppm)	Zn (ppm)	P (ppm)
	99		28° 70/75°	DK GREY TO BLACK SILICEOUS SILTY MUDSTONE AND MUDSTONE TURBIDITE.		<1%																
105	100		80-82°																			
110	100		29° 70°																			
115	90 / 87		60°	115.0 M TOP OF BRECCIA ZONE. 116.80 TO 116.86M BRECCIATED SHALE W/QZ + MINOR CA.								5% / 20 / 5%	1% / 5 / 1%	<1								
120	79 / 97		75°	118.35 BOTTOM OF BRECCIA ZONE.																		
125	96		78°	124.17m PY BAND ~1 CM. 2cm-3cm 'LST BALLS' IN SHALE. FLATTENED AND CORED W/ARAGONITE ?)		2%									T22035 / T22036	123.74 / 124.60 / 127.40				93 / 102	318 / 544	340 / 190
130	92 / 100		80 / 10° / 77°	129.60m SILTY MUDSTONE LT-MED. GREY MAJOR AMT CA. UPTO 85%. 128.76M											T22037 / T22038	129.23				46 / 226	214 / 624	480 / 1690
135	96 / 100		75°	132.87m SEVEN QZ-CA VNLTS. 60-90° TO CORE AXIS. WAVY CONTACTS. <2cm THICK EACH. 133.27m WAVY PY BAND 4-6 mm THICK. 134.43m FINELY LAMINATED LT. GREY UNIT NON CALCAREOUS. SILTY MUDSTONE. 134.53 TO 134.66M LIMESTONE BED. 85+% CA. 135.26 M								30%	7%	1%	T22039	133.50				123	796	1050
140	93 / 100		80° / 80	138. M 5 LST. BEDS OVER 2 METRES. ea. APPROX. 5cm. 140.M 140.47 TO 140.495M VAESITE BEARING HORIZON: 2.5 CM THICK. 141.0M LIMESTONE BALL MEMBER.		50	10					40			T22040 / T22041 / T22042	137.77 / 140.45 / 140.51	160	54	22	199 / 1.42% / 204	558 / 0.38% / 318	470 / 1070 / 410
145	93		60°	145.99M END OF HOLE.											T22043 / T22044	143.13 / 144.24 / 145.99				33 / 42	54 / 62	110 / 210