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	Internati	onal Mo	ntoro Re	sources													
Hole	P-15-22		Northing												Page	1	
Proper	ty Serpent river		Easting						UTM	N	۲ 5	138816		Date	Start		Mar. 2
Towns	nip Joubin		Elevation	(M) 384					nad 8	3 Е		389337		Date	- Comp	lete	Apr. 1
	Description									Assays		Assays				ĺ	
From	To		Photo	From	То	Διι	Δs	Sh	Bi	Δa	в	Zn Ba	Cu	ĸ	Na	Ca	Ma
0			1 11010	1 10111	10	Λu	73	50		лу			Cu	IX.	110	Ca	ivig
3	98.24 GREYWACKE (Pecoes Fmn) dark grey to black f.g. massive. Conains <<1% elongate	550050													-		
	DIEDS PO	PECORS														<b>⊢</b>	
	4.95 - faint bedding 2-5 mm thick at ~70 deg. To c. axis															<b>⊢</b>	
	18.34 - py str 3 mm wide at ~50 deg. To C. axis													_	'	<b>⊢</b> ]	
	21.58 - 26.8 quanzite (impure) i.g. dark grey.Faint bedding 2 mm thick at 75 deg. 10 C.																1
	34.08 - Darker band (bed) at 70 deg. To c. axis																
	34.64 - Dark grey bed 1 cm wide at 65 deg. To c. axis														+'	I	
	60.30 - 60.85 Contains <<1% elongate blebs and streaks po, pv														+		
	87.30 - 87.60 Contains <<1% diss po. pv															ł	
	87.41 - 1 cm wide dark grev bed at ~90 deg. To c. axis																
98.24	105.52 DIABASE ? DIKE dark grey f.g. massive. Similar to gwke but much harder. Some																
	brecciation of seds along upper contact																
	100.87- 102.7 greywacke (xenolith ?)																
																<del>ر ا</del>	
105.5	120.2 As at 3.0 - 98.24															1 i	
	116.6 - 1.5 cm wide bed at ~80 deg. To c. axis															I I	
	116.8 - 117.51 Diabase ?																
120.2	124.95 DIABASE DIKE ? As at 98.24 - 105.52 This could be a more quartz/chert rich sed. Much																
															+'	I	
125	219.1 GREYWACKE (Pecors Fmn) as at 3.0 - 98.24	PECORS															
	128.20 - 128.55 beddded (1-2 cm thick) section with black (micritic) an darev sandy beds	. 2001.0															
	at ~90 deg. To c. axis Some evidence of channel scour on muddy beds indicating tops up																1
	hole.																1
	131.35 - 131.60 a at 128.2-128.55															lł	
	134.90 - 135.65 as at 128.2 - 128.55 . Contains <<1% blebby po															(	
	143.15 - 143.64 as above Some channel scour indicating tops up hole		1													i – †	
	144.45 - 144.56 Carb-qtz vein at 45 deg. To c. axis with <1% po																. <u> </u>
	150.73 - 150.85 Qtz-cblebby po, py at ~70 deg. To c. axis.																
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		hole P-15-22						Page	2	
From	То	Description	Strat.Unit	Photo	То	From				<u> </u>
		152.56 - 152.75 thin bedded (<1cm) at 80 deg. To c. axis								
		160.50 - 161.0 thin and thick beds at ~80 deg. To c. axis with some scour.								
		167.15 - some small rip up structures ind. Tops up hole.								
		173.20 - 173.50 thinly bedded at 80 deg. To c. axis								
		178.0 - 183.6 Core badly broken, fault zone with minor gouge								
		184.0 - 187.95 cut by a few widely spaced (<1 cm) qtz-carb strs at ~45 deg. To c. axis								
		185.65 Few coarse blebs po, py								
		186.75 - 187.30 med beds a ~85 deg. To c. axis								
		195.0 - 197.5 fine to med beds at 85-90 deg. To c. axis								
		207.55 - 213.65 fine to med beds at ~90 deg. To c. axis. Contains some sandy crosscutting dikes ?		P-210.5	5					
		215.5 - 215.6 qtz-carb vein at ~70 deg. To c. axis								
219.10	219.45	CONGLOMERATE (Ramsey Lake) Contains rounded white quarz pebbles to 2 cm and smaller (3-5mm) dark grey qtz pebbles. Matrix supported. Matrix is carbonate rich	RAMSEY L	P-219.4	Ļ					
219.45	274.88	As at 124.95 - 219.10	PECORS	P-236.6	6					
		243.0 - 245.8 thinly bedded (2-10 mm) section. Bedding at ~90 deg. To c. axis								
		255becomes sighly less muddy and more sandy.								
		MATINENDA+C21:C124+C21:C40								
										<b> </b>
274.88	308.70	QUARTZITE/GREYWACKE light to dak grey massive f.g Contains a few argillaceous sections in places.								
		In section is a mix of quzite, gwke and argine. The gwke/arg sections have a carbonate non-matrix that gradationally diminishes down the hole to 298.23. Brecciated near lower contact	мскім							
		276.6 - 278.2 Brecciated and healed guartzite								
		295.6-302.4 more massive wacke cut by numerous white irreg qtz-carb strs 1-15mm at 50-70 deg. To c. axis		1						
<u> </u>		304.2 - 305.0 argillaceous section with ~1% diss and blebs po. Brecciated in places					<u> </u>	<u> </u>		 <u> </u>
	1	306.1 minor fault gouge					1			

-							 		
308.70	341.39	QUARTZITE (Matinenda) Light to dark grey f.g. massive. Upper contact sharp at 50 deg. To c. axis.							
		Contains some light green sericitic patches in places.	MATINENDA	4					
341.39	357.10	DIABASE - dark green grey f.g. massive. Highly carb and hematized and cut by numerous thin (1-5 mm) gtz-							
		carb strs. In places carb alt'n appears to eminate outwards from fractures. Contains frags dark grev gtzite.							
		Otzite contains a few scattered blebs po, cp. Upper contact at 50 deg to c, axis. Strong carb alt'n decreases							
		by 354 m. 20 cm wide gtz-carb vein at 50 deg, to c, axis at 348 5							
357 10	440.60	OLIARTZITE (matinenda) light grey to slightly nink massive f.g. to m.g.		Δ			 		
007.10	++0.00	266,270 grades into slightly pink (bornetized) rock with $<1%$ disc by slight increase in radioactivity		Ì			 		
		220 200 2 light groupich cost/corrigital Contains come faint indications of hadding at 20 day. To a suis					 		
		379 - 380.3 light greenish cast(sencite) Contains some faint indications of bedding at ~80 deg. To c. axis.							
		Also contains a few scattered (<1mm) white to cream leucoxene ? Xtals					 	$\longrightarrow$	
		394-400 very light pink colour no py or radioactivity							
		403.8-408.6 slight orange (kspar?) colour							
		410.7 -411.8 contains a few subrounded to subangular white qtz pebbles							
440.60	459.55	CONGLOMERATE (Matinenda) contains numerous white subrounded gtz pebbles (0.5-6 cm) and a few dark							
		grev cherty looking pebbles (clast supported). Contains <1% diss py. Upper contact gradational non rad.							
			MATINENDA	4					
		441.6 - 442.2 black f.g. carb rich lamprophyre. Contacts at 80-90 deg. To c. axis		P-441.5					
		445 25 - 449 06 atzite containing the odd atz pebble		_					
		$15153$ cm wide lamp, dike at $\sim 70$ deg, to c, axis							
		$-101.0$ John while lamp, the at $\sim 10$ deg. to 0. axis							
		454.0 -454.4 Diabase contacts at ~70 deg. to c. axis							
				P-454					

0.	00	hole P-15-22			÷			Page	;	3		
From	То	Description	Strat.Unit	Photo	То	From	Au	Ca	Mg	Al	Pb	Zn
		457.05 - 457.38 Contains 10-15% bedded py bands to 1 cm wide and po,cp blebs and strs along fract and										
		clast edges. This appears to be a large clast with bedded and secondary sulphide. Non rad.		P-457								
459.55	462.60	DIABASE dark green f.g. to m.g. massive. Contacts at 70 deg. To c. axis. Contains a few clasts qtz pebble										
		cgl. Lower contact at ~65 deg. To c. axis										
		460.6-461.5 core badly broken with some gouge - fault										
462.60	474.60	PROTOCONGLOMERATE - dark grey to black with a few scattered white subrounded qtz pebbles to 3 cm										
		and some dark mafic pebbles to 1 cm. the matrix varies from m.g. to c.g. and appears almost diabasic in										
		places. Lower contact gradational. Contains <1% diss py, po										
474.60	595.50	BASALT (thessalon) dark green f.g. to m.g. masive flow. Slightly magnetic in places. Contains <1% diss										
		py,po	THESSALO	N								
		479.45-479.7- conglomerate bed										
		482.85-485.9 comglomerate bed										
		495-501 slight to mod. Pervasive carb alt'n in places										
		497.9 - 499.33 Flow top breccia										
		502.32-507.5 amygdaloidal. Contains scattered carb filled amy. 1-15 mm										
		508.5-509.06 As above										
		509.2-509.25 white qtz vein at 75 deg. To c. axis										
		519.08 - 520.9 flow top breccia										
		521.8 - 521.95 flow top breccia. Upper contact sharp at 40 deg. To c. axis										
		522.10-523.5 amygdaloidal										
		524.7 - 527.2 flow top breccia with <1% diss py										
		533.3 - 537.5 contains a few scattered qtz-carb filled amy.										
		545.75-549.3 Contains numerous amy. from 1-10 mm. The larger are slightly spherical in shape and filled by										
		chl with carb rims and the smaller are carb filled. Some contain a few blebs py, cp		P-546								
		555.9-557 Feld. phyric with numerous small(1-2mm) white anhedral feld phenos										
		560.0-563.05 as above										
		565.9- 567.75 contains a few scattered amy.										
		569.82- 571.06 contains numerous dark green lath like xtals to 1 cm hornblende?										
		572.71- 572.86 qtz vein at 80 deg. To c. axis		P-								
				570.5								
		575.05-575.4 qtz vein at 70 deg. To c. axis contains some orange kspar?										
		579.55-580.48 contains numerous round black amy. 1-3 mm comtaining magnetite		P-								
				580.5								
		589.5-598.51 contains numerous small (1-2mm) white leucoxene xtals										
		592.45-593.36 brecciated in places and recemented kspar-epidote-chl-qtz mixture										
		594.35-595.05 brecciated and healed by qtz-carb-epidote. Rock is v.f.g. and slightly magnetic with <1% diss										
		ру, ср										

595.50	600.45	HORNBLENDE GABBRO, dark green to black f.g. matrix with numerous euhedral to subhedral hornblende					
		laths to 2 cm. Upper contact at ~90 deg. To c. axis lower gradradational	P-596				
		601.55-601.86 qtz vein at 60 deg. To c. axis					
		602.15-602.4 as above					
		604.0-606.3 Contains scattered amy to 1 cm					
		610.9-611.4 cut by ragged qtz vein subparallel to c. axis					
		614.7-628.5 m.g. to c.g. section. Contains hornblende and feld xtals. Feld is variably epiditotized increasing					
		down the section					
600.45	811.20	GABBRO dark grey f.g. to m.g. massive with numerous saussuritized feld phenos to 6mm. Contains <<1%					
		diss fine py, non mag.					

		HOLE P-15-22						Page	÷	4		
From	То	Description	Strat.Unit	Photo	То	From	Au	Са	Mg	AI	Pb	Zn
		639.2-639.6 cut by numerous irreg masses qtz-carb-epidote										
		641.85-642.15 epidotized patch										
		654.2-654.22 irreg qtz-carb str										
		663.32-663.72 white qtz vein at 70 deg. To c. axis										
		663.34-663.70 cut by regged white qtz vein										
		665.15-665.63 white qtz vein at 65 deg. To c. axis										
		672.2-672.5 brecciated and infilled with white qtz-carb										
		673.8-680.4 contains some faint f.g. bands(2-90 cm thick) at ~80 deg. To c. axis										
		676.0-776 slightly magnetic grades to mod magnetic from 700 onwards										
		671.3-676.48 brecciated and infilled by white qtz fault ??										
		676.45-677 black f.g. pyroxinitic dike at ~45 deg. To c. axis. Mod magnetic with ~1% diss py										
		680.5-693 contains <1% py with some po and cp generally in thin saussuritic strs										
		703-748.46 contains cp, po min assoc with sauss strs and some diss throughout overall <1%										
		748.46-748.68 ragged qtz-carb vein at ~80 deg. To c. axis. Contains a 10 cm mass po,cp assoc with a f.g.										
		mafic xenolith										
		748.46-753 as at 703-748.46										
		750.31-750.45 qtz-carb vein at ~70 deg. To c. axis. Contains minor diss cp										
		732.2-732.34 qtz-carb vein at ~50 deg. To c. axis										
		753.74-753.95 cut by several qtz-carb strs at 50 deg. To c. axis										
		753.0-776.76 contains <1% diss py, cp in strs and fract.										
		776.76-779.9 pyroxinitic breccia. Contains ~1% diss and blebs py interstitial to frags. Frags both ultramafic										
		and feldspathic. Non magnetic										
		802.8-803.34 25 cm bx/shear zone flanked by light grey altered zone										
811.20	832.40	GABBRO BRECCIA dark green to black f.g. to m.g. contains a mixture of f.g. green frags (volcanics) and										
		m.g. gabbro. Contains <1% diss py non magnetic. Also with some irreg strs blobs and masses ankeritic										
		carbonate										
832.40	933.00	GABBRO dark green m.g. to c.g. massive non magnetic. Contains <1% diss py and the odd vol. frag to 20										
		cm. Locally some fine scattered subhedral white leucoxene xtals and some feld rich segregations.										
		895-917.8 ghost breccia with a few f.g. green frags (basalt) and some indistinct rounded (milled ?) gabbroic										
		frags		P-891.5	5							
		908.36-908.4 qtz vein at ~80 deg. To c. axis										
		916.5-933 contains blobs (to 1.5 cm) and fine diss (1-3%) of po, cp occupying an intercumulus position										
		between feld and pxene xtals. Possibly some very fine pentlandite. Local accummulations of pxene xtals (to										
		1 cm)										
		929.45-933 becomes f.g. chloritic and brecciated				1			1	1		1
	1	931.6-933 contains diss and banded po, cp, magnetite (I.F. ?) to 10 cm at ~40 deg. To c. axis.			1	1	1		1		1	1
		932.8-932.95 possible vol frag with exhalite type banded po, sphal, py, cp							Τ			1

933.00	935.55	MAFIC METAVOLCANICS darg green to grey f.g. flow. Appears brecciated in places with much saussurite						
		alt'n along fract and frag edges.						1
935.55	962.28	GABBRO BRECCIA light grey to green f.g. to m.g. silicified, epidotized and chloritized gabbro. Appears to be						1
		a chilled contact zone that has beed brecciated and altered. Intensity of brecciation and alteration gradually						1
		decreases down the hole. Contains <1% diss po, cp generally but also some semimassive patxhes to 5 cm.						1
			GABBRO					1
		955.95-956.62 lamp dike at 60 deg. To c. axis						1
962.28	963.00	MAFIC VOLCANICS, dark green massive f.g Possibly a large xenolith						
963.00	982.30	as at 935.55-962.28						1
982.30	F€€ÍÈ€€	BASALT, dark green to black f.g. massive non mag. Upper contact at 10 deg. To c. axis.						1
	F€€ÍÈ€€	END OF HOLE						1





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HOLE	DEPTH	DIP	AZIMUTH (mag)	AZIMUTH (true)	
P-15-22	81	-86.8	74.2	64.2	
P-15-22	148	-86.1	109.3	99.3	
P-15-22	195	-86.0	114.2	104.2	
P-15-22	297	-84.9	129.6	119.6	
P-15-22	396	-84.3	138.8	128.8	
P-15-22	495	-83.7	138.7	128.7	
P-15-22	594	-82.4	152.6	142.6	
P-15-22	699	-81.7	154.7	144.7	
P-15-22	798	-81.4	156.1	146.1	
P-15-22	894	-80.7	154.3	144.3	
P-15-22	996	-79.8	155.9	144.9	
P-15-23	96	-89.8	133.2	123.2	
P-15-23	144	-89.6	39	29	?
P-15-23	198	-89.4	139.7	129.7	
P-15-23	276	-88.4	150.5	140.5	
P-15-23	390	-87.8	166.4	156.4	
P-15-23	420	-87.2	166.7	156.7	
P-15-23	456	-87.1	168.3	158.3	
P-15-23	480	-87.1	168.9	158.9	
P-15-23	525	-87.0	177.4	167.4	
P-15-23	543	-87.0	173.9	163.9	
P-15-23	645	-83.9	174.8	164.8	
P-15-23	744	-83.0	179.2	169.2	
P-15-23	843	-82.7	180.9	170.9	
P-15-23	1035	-82.0	183.1	173.1	
P-15-23	1245	-81.5	184.1	173.1	