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PURPOSE OF HOLE

HOLE NO. 68-PR-2
CLAIM NAME
COMMENCED 015733
FINISHED
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS						
0	99		Overburden											
99	130	IC7	Musc-bio-staur ± andalusite schist; lt. gray, thinly banded; mod. porphyroblastic musc > bio staur schists; non calcareous; 2-6" qtz-fld pods 123, 127'; complete D_2 transposition; S_2 = 80° to c.a. @ 104.5; staur is rosin brown and shows S symmetry F_2 folds in individual staur. porphs. @ 126'											
130	138	IF8	Metatrasite; med. gray green, weakly banded, heavily foliated metatrasite w/ ankeritic alteration 135-138											
138	147	IC6 → IC5	Variably graphitic, musc-bio schist; beige to black thinly to laminarly banded musc > bio schists; complete D_2 transposition											
147	167	IC0	Bio-musc-andalusite(?)-garnet schist; med. dk gray, fine xl'line, finely porphyroblastic bio > musc pelitic schist; complete D_2 transposition w/ psammitic, thinly banded, S_2 banded lithics; S_2 = 80° to c.a. @ 160; not c.f. top of schist unit or any of schist units in 456-75-12											
167	175	IC0	Musc-bio-andalusite schist; tan, thinly banded, mod. porphyroblastic musc > bio pelitic schist; non-calcareous; complete D_2 transposition											
175	198		Silicated marble; lt. gray, v.f. xl'line, calcitic marble w/ dk. olive green qtz ?? bands ∥ S_2; S symmetry @ 180 and 190'; S_2 = 60° to c.a. @ 195'											
198	224.5		Porphyritic hb diorite dike/sill; lt-med. green, finely xl'line diorite w/ 0.05"-0.1" hb + plag. phenocrysts in med-lt. green aphanitic matrix core broken & blocky @ contacts making contact D_2 indeterminate (pred. 70° to c.a.)											

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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS
224.5	447	1A0 → 1A8	Calc-silicate phyllite/schist; med green brown, thinly banded, finely to med xlline, alternating 1-6" bands of bio. phyll/schist and med blue green clinoamphibole bearing calc-silicate bands; pelitic bands more schistose than similar pelitic bands in calc-silicate unit @ pit; minor staur in pelitic bands @ 296.5'; interval identical to much of calc-silicate in 456-75-12 e.g. 385-415'; symmetry summary: pervasive S_2 - 224.5-293, 297.5-S, 299-Z, pervasive S_2 300-352, 353.5-S, 396-M, 408-S, 415-S, 439-Z; metabasite or calc-silicate band 372.5-377'; S_2 = 75° to c.a. @ 260'; S_2 = 80° to c.a. @ 297.5; S_2 = 80° to c.a. @ 353.5; S_2 = 80° to c.a. @ 408'; S_2 = 80° to c.a. @ 446'	This may well be same 1A as found in 73X1 67 2,3 5' depression at tail 1C 1A band in 1C					
447	450.5		Silicated marble w/ calc-silicate interbands; lt. gray to dk green, thinly banded (0.5-1.0") finely xlline calcitic marbles w/ dk green calc silicate bands; 50% marble bands, 50% calc-silicate bands					
450.5	453	1A0→1A8	Calc-silicate phyllite/schist; as 224.5-447					
453	455.5		Calc-silicate phyllite and silicated marble; c.f. 447-450.5 w/ 70% calc-silicate phyllite & 30% silicated marble					
455.5	458.5	1A0→1A8	Calc-silicate phyllite/schist; as 224.5-447 minor pyralspite garnet					
458.5	485.5	1C0	Qtz-musc schist w/ laminar marble interbands; tan, laminarly banded qtz-musc schist w/ minor (<<1%) andalusite(?) porphs. and thin med grey calcitic marble interbands (90% schist, 10% marble interbands) 1' gouge zone @ 45° to c.a. 484.5-485.5'; S symmetry F_2 @ 465'					

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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS
485.5	561	140→148	Calc-silicate phyllite/schist; as 224.5-447'; all calc-silicate phyllite a schist in this hole very similar to calc-silicate unit on Tay River Mines "A" group.; many examples of garnet & andalusite (?) porphs (<1%) in pelitic bands, thus different than @ mine area; interval becoming mic. calcareous toward base; S symmetry @ 490.5, pervasive S_2 over 490-561 S_2 = 85° to c.a. @ 500'; S_2 = 80° to c.a @ 550'					
561	579.5		Calc-silicate phyllite w/ marble interbands; as 453-455.5 approx 60-70% calc-silicate bands w/ 30-40% finely xline lt gray marble bands					
579.5	608.5		Silicated marble; white to lt gray, finely to med. xline calcite marble w/ biotite (phlogopite ??) foliae and tremolite-actinolite needles completely Ds Transposition; S_2 = 80° to c.a. @ 598'					
608.5	695	100→107	Bio-musc-gar-staur schist; mod. dk brown, thinly to laminarly banded, mod. porphyroblastic, med. xline, bio > musc pelitic schist; interval similar to quartz feldspathic member of schist map unit as seen in 456-75-12 in that interval has same fabric & assemblage and probable folds comp. but is more pervasively S_2 foliated; S symmetry @ 612, 617.5; Z symmetry 638'; in general unit is pervasively S_2 foliated; S_2 = 80° to c.a. @ 650'		Plus	100	interval →	
					above	1H	Lithology =	
					1A in ditch	73	X1	
					607	F	2,3	
695	696		Silicated marble; as 579.5-608.5					
696	734	100→107	Bio-musc-staur-gar ± andalusite (?) schist; as 608.5-695; bio > musc pelitic schist w/ coarse rosin brown staur, pink poikilitic					

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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS
			garnet anal. dk. blue green, feathery andalusite(?) porphyroblasts; S_2 = 75° to c.a. @ 714'; pervasive S_2 development					
734	773		interbanded silicated marbles and calc-silicate schists; as 447-450.5; approx 50% silicated marbles, 50% calc-silicate schist; numerous examples of pelitic schist bands bounded by clinoamphibole-bearing calc-silicate assemblages suggesting P.M. Orville's mechanism of "amphibolite" formation between adjacent pelitic & carbonate bands; pervasive S_2 development; S_2 = 80° to c.a. @ 754'					
773	889	1140→ 1148	Calc-silicate schist; as 224.5-447, 485.5-561; many excellent examples of D_1/D_2 metasomatic development of calc-silicate assemblages @ schist/marble contacts a la Orville; S symmetry @ 843', 881', 888'; S_2 = 80° to c.a. @ 800'; S_2 = 85° to c.a. 843'; S_2 = 85° to c.a. @ 888'; note 889-1000' not identifiable in sequence of weathered core boxes but probably calc-silicate schist					
			NOTE: Calc-silicate schist in this hole probably equivalent to Shi Hill marble package in upper part of schist unit; much of calc-silicate phase assemblages in unit as result of Orville's "metasomatic" reactions between pelitic and carbonate bands in a thinly interlayered sequence					

In general, there is a 1A unit assoc. w/ skarn/silicated marble unit in 1C subdivision of schist map unit as seen in 68PR2, Hatch, 73X1, 67F2, 67F3

Kresis question of what is 1A @ "base" of 1C?? Ofs it as seen in 75-11 & 456-75-12 or other such occurrence ?????

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HOLE NO. 1966 L-1
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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS
0	90		Overburden					
90	150		Graphitic phyllite; black, heavily foliated, non-calcareous, non-magnetic graphitic phyllite; all core this interval ground and rubbly approx 2' of core recovered over 60' interval					
150	157.25		Carbonaceous limestone; cryptocrystalline; med gray, unfossiliferous weakly calcareous limestone					
157.25	173		Graphitic phyllite; as 90-150 w/ heavy qtz-$CO_3^=$ bxiation 172-173; core rubbly and broken over interval; about 3' recovered; S_2 = 70°+ c.a. @ 171'					
173	174		Carbonaceous limestone; as 150-157.25;					
174	221		Graphitic phyllite; as 90-150 and 157.25-173; interval heavily bxiated and filled w/ qtz-ankerite veinlets & bxia fill; F_2 hinge 197-204' where S_1 = 0-20° to c.a. w/ S_2 = 50° to c.a @ either end of this interval					
221	223		Calcareous graphitic phyllite; c.f. 174-221 except interval moderately calcareous					
223	227		Graphitic phyllite; as 90-150; no bxiation					
227	228		Calcareous graphitic phyllite; as 221-223; S_2 = 60° to c.a. @ 228'; F_2 // line of S_2 Σ @ 228'					
228	230		Graphitic phyllite; as 90-150 and 223-227; ½" qtz-$CO_3^=$-py foliaform pod @ 229.5 w/ 25% py (marcasite)					
230	230.5		Quartz-pyrite-calcite pod; foliaform pod. c.f. that @ 229.5 w/ 25-40% py or marcasite					
231	232		Carbonaceous limestone; med. gray, v. finely xlline, heavily bxiated					

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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS						
			foliated, unfossiliferous limestone; S_2 = 50° to c.a. @ 232'											
232	236		Graphitic phyllite; as 90-150, 223-227, 228-230; F_3 and post D_3 folds @ 235', post D_3 fold axis ≈ 30° to line of S_3 strike											
236	239		Carbonaceous limestone; as 231-232; S_2 = 60° to c.a @ 236'; interval unfossiliferous											
239	281		Graphitic phyllite; as 90-150; 223-227, 228-230, 232-236; S_1 = 35° to ca @ 258', S_2 = 55° to ca. @ 258'											

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HOLE NO. 456-1975-11
CLAIM NAME
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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS				Recovery INTERVAL	Recovery RECOVERY	Recovery Interval	Recovery
0	32		Overburden									32-36	4.0'	150.5-156.5	5.0'
32	40		Musc-Bio-Schist: med-coarsely xlline, sub-aluminous politic schist characterized by dk brown									36-40	2.3'	156.5-167	10.5'
			bio patches in qtz-musc-plag-matrix, interval blocky and moderately weathered.; interval = ~~qtzo~~ feldspathic bio musc. schist 1528-2302 in 456-75-12									40-45	1.5'	167-175	3.5'
40	45		Metabasite; dk green amphibolite of volc origin									45-50	4.0'	175-186	5.25'
45	56		Bio-Musc-Schist; med-coarsely xlline, quartzo-feldspathic, bio > musc schist with absence									50-57	2.5'	186-190	2.0
			of alumina silicate index minerals, S_2 = 70° to c.a. @ 48.5'									57-66.5	9.0'	190-191.5	1.0
56	57		Metabasite; as 40-45									66.5-72	2.0'	191.5-197	3.0
57	62		Bio-Musc-Staur(?)-Schist; as 45-56, except for presence of ~1% porphyroblastic brown									72-78	2.0'	197-200	2.5
			mineral, probably staurolite, interval may also have chloritized andalusite porphyroblasts									78-81	1.5'	200-203	2.0'
62	91.5		Musc-Bio-Staur-Andul-Schist; as preceding interval with musc >> bio, bio. developed									81-87	3.0'	208-208.5	4.75'
			as patches and blobs, suggestive of relict F_2 hinge zones, staur & andul. appear to coexist									87-91	3.0'	208.5-212.5	3.0'
			thru much of interval, staur. rosin brown and non-sector zoned. Petrography needed to									91-95.5	4.6'	212.5-215.5	3.0'
			see if staur + andul exist stably; this interval fairly quartzo-feldspathic and appears									95.5-104	9.5'	215.5-219	2.25'
			transitional from aluminous zone to underlying quartzo-feldspathic zone.									104-108	4.0'	219-224	4.0'
91.5	432.5		Quartzo-Feldspathic-Bio-Musc (Staur = Garnet)-Schist; interval med-dk brown with quartzo-feldspathic									108-112.5	4.25'	224-228.5	4.5'
			laminae and bands from .05" → .5", D_2 transposition of D_1 fabric incomplete					167-175	3.5'			112.5-120.5	8.0'	228.5-234	3.25'
			S_2 = 85° to c.a. @ 152', numerous F_2 hinges seen throuout this interval implying incomplete transposition of									120.5-124.5	3.75'	234-239	3.25'
			D_1 fabric by D_2 due to quartzo feldspathic bulk composition?, S_1 readings this interval									124.5-132	7.0'	239-242	2.0'
			fairly meaningless as S_1 completely folded thru F_2 hinges on a scale of .25" - 6", Numerous									132-138	4.25'	242-245	2.5'
			suggestions of sub-vertical S_1, S_2 = 80° to c.a. @ 151', S_2 = 90° to c.a. @ 200'									138-140	1.3'	245-246	0.75'
			schist interval non-calc/non-mag/non-graphitic; interval becomes perceptively									140-150.5	10.0	246-250	3.5'

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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS	RECOVERY Interval	Recovery	Interval	Recovery
91.5	432.5	(.. core)	garnetiferous from 397' to end of interval, blue-green chlorite blebs may represent andalusite						250-256	4.5'	418.5-429	10.5'
			retrogressed to chlorite, lt. brown andal. scattered randomly throuout entire interval, S_2=90° to c.a						256-260	3.25'	429-431	2.5'
			@250', S_2 = 85°-90° to c.a. @ 300', S_2 = 85° to c.a. @ 349', F_2 sub ∥ to line of $S_2\Sigma$ @338						260-265	3.75'	431-437	5.5'
			S_2 = 80° to c.a. @ 338', S_2 = 85° to c.a. @ 400'						265-273.5	7.5'	437-438.5	1.5'
432.5	437		Musc-Chlor-Bio Schist; lt greenish beige with occasional dk brown bio-blotches, interval blocky						273.5-284	10.0'	438.5-443	5.0'
			several minor gouge zones and considerable qtz-chlor-andal-post D_2 veining						284-298	4.0'	443-451	7.3'
437	442.75		Bio-Musc ± chlor-schist; interval contains minor quartzo-feldspathic bands and no recognizable						288-294.5	4.0'	451-453	2.0'
			aluminous silicates						294.5-297	4.25'	453-462	9.0'
442.75	448.5		Chlor-Clino-Amph-Schist or Metabasite: unit med grey green, non-calc/non mag and probably of						297-303.5	6.0'	462-472	10.0'
			metavolcanic origin						303.5-313	9.5'	472-482	10.0'
448.5	452		Bio-Chlor-Musc-Schist; as 437-442.75., S_2 = 70° to c.a. @451						313-323	10.0'	482-492	10.0'
452	453		Bio-Chlor-Schist; med gray-green, laminarally banded schists of probable metavolcanic origin						323-327	4.0'	492-502	10.0'
453	537.5		Quartzo-Feldspathic-Bio-Musc-Andal-Schist; dk grey brown, weakly mottled, slightly quartzo feldspathic						327-337	10.0'	502-512	10.0'
			slightly aluminous, two-mica-schist, with v. minor bio-musc-garn. schist and no observable strain.						337-347	10.0'	512-522	10.0'
			Six inch gouge zone @453.5. F_2 sub ∥ to line of $S_2\Sigma$ @462' where weakly developed S_2 = 80°						347-357	10.0	522-532	10.0'
			to c.a @462', $S_2 \cong S_1$ = 70° to c.a. @498' where F_2 sub ∥ to line of S_2 strike						356-367	10.0'	532-542	10.0'
537.5	552		Siliceous Graphitic Schist: unit thinly to laminarally banded, variably graphitic, dk grey to black, heavily						367-377.5	10.5	542-552	10.0'
			$-CO_3^=-$ qtz veined schists, slightly calcareous, minor py-po, slightly mag, sulfides << 1%.						377.5-388	10.5'		
			S_2 = 80° to c.a. @552 minor F_2 hinges throuout interval						388-398	10.0'		
552	555		Bio-Musc-Chlor-Andal Schist; thinly banded, lt-med brown-grey-green, slightly						398-408.5	10.5'		
			calcareous schist with chloratized andal knots						408.5-418.5	10.0		

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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS				Interval	Recovery	Interval	Recov
555	570		Variably Graphitic Quartzites to Qtz. Bio-Schists; slightly calcareous med-dk grey brown sulfide rich interval with									552-562	10.0'		
			1½-10% total sulfides by volume over interval, po ≫ py in S_1 foliaform bands and pods over									562-572	10.0'		
			interval, no Pb-Zn sulfides seen, toward end of interval Po becomes disseminated, accounting									572-582	10.0'		
			for 1½-5% of rock by volume, S_1 sub-vertical over 557'-564.5', $S_1 = S_2 = 85°$ to c.a. @ 555.5'									582-592	10.0'		
			$S_1 = 0°$ to c.a. @ 560', $S_1 = S_2 = 85°$ to c.a. @ 566', THIS INTERVAL TO BE SPLIT AND ANALYSED												
570	575.5		Musc-Bio-Andul-Schist; med tannish grey with typical dk grey andul. porphs and no staurolite.												
575.5	612		Bio-Musc-Andul and Bio-Musc-Staura Schists interbanded; dk grey-brown, weakly												
			aluminus 2 mica schists. Note D_2 transposition of D_1 incomplete, due to quartzo-feldspathic nature												
			of unit. $S_2 = 70°$ to c.a. @ 600'												
612	613.5		Interbanded Chlor-Clino-Amph-Schists & Bio-Schists; unit of probable metavolcanic origin												
613.5	621		Bio-Musc-Andul-Schist; as 575.5-612												
621	632.5		Interbanded Seq of Chlor-Clino-Amph Schists/Metabasites → with minor aluminus bio-staur-												
			andul-schists;												
632.5	655.5		Musc-Bio-Andul-Schist and Bio-Musc-Andul Schist; unit med grey brown to dk brown with												
			varying proportions of muscovite to biotite, $S_2 = 90°$ to c.a. @ 650'.												
655.5	657.5		Metabasite; med. dk green chlor-clino-amph schists of metavolcanic origin.												
657.5	659.5		Bio-Musc-Andul-Schist; as 632.5-655.5												
659.5	660		Metabasite, as 655.5-657.5												
660	665		Bio-Musc-Andul-Schist and Musc-Bio-Andul Schist; as 632.5'-655.5', 6" gouge												
			@ 663.5'												
665	666.5		Metabasite, as 655.5-657.5												

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666.5	693.5		Bio-Musc-Andul-Schist & Musc-Bio-Andul-Schists; as 632.5-655.5, minor garnetiferous sections and numerous 2"-12" qtz, pink andul-chlorite stringers.						592-602.5	10'
									602.5-612.5	10'
693.5	696		Fault gouge in bio-musc-and. schist; angular fragments of various lithologies in punky gouge matrix						612.5-622.5	10'
									622.5-631	9'
696	698		Musc-bio-andalusite schist; interval of broken, blocky core between gouge zones						631-641.5	10'
									641.5-651.5	10'
698	699		Fault gouge in bio-musc-and. schist; as 693.5-696; entire interval 693.5-699' represents major fault zone.						651.5-661.5	10'
									661.5-671.75	10'
699	716.5		Bio-musc-andalusite schist & bio-musc-staur. schist; mod. csely xl'line, med. dk. brown, moderately qtzo-feldspathic 2 mica aluminous pelitic schist; D_2 transposition of D_1 fabric nearly complete; S_2 = 85° to c.a. @ 700'						671.75-682	10'
									682-692	10'
									692-702	10'
716.5	719		Metabasite; med. dk. green hb-plag. amphibolite						702-712.5	10'
719	737		Bio-musc-staur-gar schist; med. dk. brown pelitic schist w/ complete D_2 transposition of D_1 fabric						712.5-722.5	10'
									722.5-733	5'
737	753.5		Silicated marble w/ interbanded metabasite; alternately lt. green to dk. green thinly banded (0.1-12.0") silicated marble band w/in schist unit; metabasite bands could be "metasomatic amphibolites" developed by reaction between pelitic interbands and enclosing marble; assemblage in marble bands = diop-gross-$CO_3^=$-qtz, assemblage in metabasite bands = hb-bio-plag-qtz.; prominent 1½ chloritized diorite dike @ 745'; gouge zones @ 454' and 457'; S_2 = 75° to ca @ 750'						733-741.5	9'
									741.5-753	10'
									753-758.5	5'

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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS	Interval	Recovery
757.5	776		Calc-silicate schist/phyllite : thinly banded, very calcareous, purplish br bio phyll/schist and interbanded lt. green dmp-$CO_3^=$ c.f. typical calc. silicate phyll. map unit; interval NOT typical calc-silicate phyllite but zone of pelitic bands w/in silicated marble band in schist unit; some evidence for "metasomatic" devel. of amphibolite assemblages @ marble-pelite contacts; gouge zone 757.5-759.						758.5-768.5	10
									768.5-778.5	10
									778.5-789	10
									789-799	10
									799-808.5	9.5
									808.5-819.5	10.5
776	829.5		Silicated marble; c.f. 737-757.5; interval med. greenish gray due to >60% $CaCO_3$ content; toward bottom of interval sh. is nearly pure marble w/ prevalent boudinage of more competent dkr-dkrcamph. schist interbands; S_2 = 75° to c.a. @ 800'						819.5-830	10.5
									830-840	10
									840-850.5	10.5
									850.5-860.5	10
829.5	834.0		Metatrasite; as 716.5-719 except heavily epidotized adjacent to gouge zones 830.5-832, 2-3" gouge zone @ 30° to c.a. 830.5-832'						860.5-871	10
									871-881	10
834	1352.5	Quartzo-feldspathic	Bio-musc-gar-staur & musc-bio-and. schist; dk. br. mod. early xlline 2 mica schist w/ <1% pyralspite garnet and 1-2% resin brown staur. interval contains 5-10% musc >> bio. andalusite schist; D_1 trans position of D_1 fabric incomplete as many disharmonic, rebut F_2 hinges; interval more qtzo feldspathic than pelitic schists enveloping Fabo deposit; S_2 = 80° to c.a. @ 850.5'; S_1 = 0° to c.a. 868-869' in core of F_2 hinge; drill stopped 919.5-923.5'; S_2 = 75° to c.a. @ 950'; S_1 = 0° to c.a. 983-989 = F_2 hinge; $S_1 = S_2$ = 80-85° to c.a @ 1000'; much of musc-rich assemblage irreg. devel.						881-891.5	10
									891.5-901.5	10
									901.5-907	5.75
									907-917	10
									917-927	10
									927-937	10
									937-947	10
									947-957	10
									957-962	5

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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS						
			2' gouge zone 290-292' @ ~~indeterminate~~ ∠s to core axis; S_2 = 75° to c.a. @ 258'; S_2 = 75° to c.a. 315.5'; 226-S, 238-S, 241- single lunge; 241.1-S, 255-S, 260-S, 288-S, 299-300-S, 306-S, 312-S, 318-S, 322-324-S, 328-S,											
339	350		Qtz-musc schist; M. greenish beige, laminarly banded, mafic free schist w/ "relict" bio-musc schist zones thru interval; qtz-musc schist appears in part an altered equivalent of qtzo-feldspathic bio-musc schist; lithology c.f. white mica envelope w/out pyrite; 340-345-M, 346-S; S_2 = 60° to c.a. @ 347'											
350	462		Quartzo-feldspathic bio-musc ± andalusite schist; as 223-339; typical lower member of schist unit; ~~note~~ upper aluminous member may not be developed SE of mine area; S_2 = 75° @ 354', 70° @ 400', 65° @ 453'; 353-S, 358-M, 359-Z, 367-370-pervS$_2$, 371' F_2 115 S_2 dip, 375-386-pervS$_2$, 384-393-~~indeterminate~~ to M??, 400-S 413-415-M, 420.5-S, 431-S, 432-F_2 115 S_2 dip, 433-S, 437-438-S, 451.5-S											
462	478		Carbonaceous metabasite; med. dk. yell. green, laminarly banded chlor-clinoamph-ep bearing metabasite w/ wispy graphitic laminae; probable tuffaceous or sed. protolith; pervS$_2$ over interval; S_2 = 55° to c.a. @ 475'											
478	501		Quartzo-feldspathic bio-musc ± andalusite schist; as 223-339, 350-462; closer to transition zone lithology w/ 1-5% andalusite											

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1421.75	1435		Smoky Qtz-Px(?)-Fspar Porphyry; lt grenish-beige post D_2 unfoliated massive prophyritic									1325-1395 10'
			[Qtz-Px-Plag], uf xlline, rhyodacite equiv. to Ø in washout, 75-11, 71-211 etc									1395-1405.5 10.5'
1435	1437.75		Silicated Marble: as 726-829.5, etc., slightly carbonaceous									1405.5-1415.5 10.0'
1437.75	1438		Smoky Qtz-Fspar Rhyodacite porphyry; as 1421.75-1435									1415.5-1422.5 6.5'
1438	1442.5		Silicated Marble; as 726-829.5 etc, slightly carbonaceous									1422.5-1432.5 10'
1442.5	1446.5		Polymictic Post D_2 Breccia; 1377.95-1379.25, Note matrix of breccia probably rhyodacite, not diorite									1432.5-1435 2.5'
			as previously suggested; this o.f. other brec occurrence in 75-11, 75-10, 71-211									1435-1445 9.5'
1446.5	1486	EOH	Chlor-Clino-Amph-Bio Schist; Unit med-greenish brown, irregularlly banded, highly fractured									1445-1455 10'
			with prevalent bull qtz veining and grossonultic(?) garnet. Unit could be characterized									1455-1465.5 10.5'
			as a calc-sil-schist and is probably of meta^{m}/metasomatic origin, S_2 = 55° to c.a. @1460									1465.5-1475.75 10.5'
			S_2 = 50-55° to c.a. @1486'. Large Bull Qtz Pod from 1442-1448.5, slightly calcareous;									1475.75-1486 10.0'
			unit ≡ tactite sequence on Big Indian — possible marker horizon 1355-1486									
			Note: All 2 mica-staur-and-gar schists in this hole ≡ to quartzo-feldspathic bio-musc schists from 1528'-2302' in 456-75-12; note tactite occurrence as possible marker unit									

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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS	Recovery
0	51		Overburden (no recovery)						0-53 1.5
51	52.5		Overburden (boulders of Hb-granodiorite)						53-71 2.5
52.5	78		Quartzo-feldspathic bio-musc schist; med. gray brown thinly bedded, non-porphyroclastic bio ± musc schist ≡ to lower member of schist map unit; very poor recovery over interval, core blocky & heavily broken; S_2 = 65° to c.a. @ 72'; S symmetry 72-73'						71-78 2.5
									78-98 .75
									98-108.5 2.0
									108.5-118.5 .5
78	98		Biotite diorite; lt. gray, leucocratic, med.-fine diorite; bio only phase on liquidus; contact ∠ = impossible due to broken core / poor recovery; width of sill/dike unknown because 5" of core recovered over 20'						118.5-128.5 1.75
									128.5-138.5 .25
									138.5-148.5 2.0
									148.5-156.5 3.0
98	108.5		Quartzo-feldspathic bio-musc schist; as 52.5-78; poor S_2; 2' core recovery over interval						156.5-167 6.0
									167-170 2.0
108.5	138.5		Hb-bio diorite; med. dk. green, med. porphyritic (hb-bio-plag) diorite sill/dike; 3" gouge @ 128'; core ∠s impossible as approx. 3' core recovered over interval						170-211.5 0-.25
									211.5-214 1.0
									214-216 1.0
138.5	148.5		Quartzo feldspathic bio-musc schist; as 52.5-78, 98-108.5; S_2 = ≈70° to c.a. @ 147; symmetry analysis meaningless due to rubbly broken core; note log intervals = full run intervals due to poor recovery (2')						216-220 3.0
									220-223 1.0
									223-231 1.0
148.5	156.5		Musc-bio-gar. staur schist; beige, mottled musc ?? bio schist w/ bio/gar "clots" in musc schist matrix; unit common in lower portion of schist unit; not similar to altered mica						224-227 1.5
									227-229 0.75
									229-232 1.5

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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS					
			envelope in that bio "stable" ss interval also ss amoeboid /									232-237	2.0
			disseminated py/marcasite ; S_2 = 70° to c.a. @ 155' ; 93' recovery									237-241	3.0
156.5	170		Gouge zone ss qtz-feldspathic bio-musc schist ; clay-rich fault									241-243	1.0
			gouge w/ rounded & broken schist fragments ; bio. flakes									243-247	2.0
			ss portions of clay matrix ; interval not "alteration envelope"									247-253	2.5
			assoc. w/ sulfides ; 10' recovery									253-262	4.5
170	211.5		Zone of ground and rubbly core ; smoky qtz-felds porphyry &									262-272	.5
			qtz-feldspathic bio-musc schist frags ; 14 pieces of rubble ;									272-282	1.0
			unknown rock type over interval									282-285	3.0
211.5	220		Quartzo-feldspathic bio-musc chlor schist ; med. dk. brown, thinly banded									285-289	4.0
			non-porphyroblastic bio-musc-chlor schist of lower member of									289-293	2.5
			schist unit ; core broken & rubbly over much of interval ; approx									293-297	2.5
			6' recovery ; S_2 = 80° to c.a @ 215' ; S symmetry @ 217 ; F_2 axis ll									297-299	1.75
			S_2 dip 218'									299-305	5.0
220	223		Quartzo-feldspathic-bio-musc-chlor schist w/ interbanded chlor-clinozoisite									305-307	1.5
			metabasite ; schist as 211.5-220 w/ 70% interbanded mafic										
			units										
223	339		Quartzo-feldspathic bio-musc ± andalusite schist ; med. dk. br., thinly										
			banded, weakly porphyroblastic bio>musc ± and. schist of										
			lower member of schist unit ; clayey fault gouge 272-283.5										
			@ indeterminate Δs to core due to 2.5' recovery thru gouge zone										

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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS						
			2' gouge zone 290-292' @ ~~indeterminate~~ ∠s to core axis; S_2 = 75° to c.a. @ 258'; S_2 = 75° to c.a. 315.5'; 226-S, 238-S, 241- single lunge; 241.1-S, 255-S, 260-S, 288-S, 299-300-S, 306-S, 312-S, 318-S, 322-324-S, 328-S,											
339	350		Qtz-musc schist; M. greenish beige, laminarly banded, mafic free schist w/ "relict" bio-musc schist zones thru interval; qtz-musc schist appears in part an altered equivalent of qtzo-feldspathic bio-musc schist; lithology c.f. white mica envelope w/out pyrite; 340-345-M, 346-S; S_2 = 60° to c.a. @ 347'											
350	462		Quartzo-feldspathic bio-musc ± andalusite schist; as 223-339; typical lower member of schist unit; ~~note~~ upper aluminous member may not be developed SE of mine area; S_2 = 75° @ 354', 70° @ 400', 65° @ 453'; 353-S, 358-M, 359-Z, 367-370-pervS$_2$, 371' F_2 115 S_2 dip, 375-386-pervS$_2$, 384-393-~~indeterminate~~ to M??, 400-S 413-415-M, 420.5-S, 431-S, 432-F_2 115 S_2 dip, 433-S, 437-438-S, 451.5-S											
462	478		Carbonaceous metabasite; med. dk. yell. green, laminarly banded chlor-clinoamph-ep bearing metabasite w/ wispy graphitic laminae; probable tuffaceous or sed. protolith; pervS$_2$ over interval; S_2 = 55° to c.a. @ 475'											
478	501		Quartzo-feldspathic bio-musc ± andalusite schist; as 223-339, 350-462; closer to transition zone lithology w/ 1-5% andalusite											

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			porphyroblasts; possibly entire aluminous unit pinches out by N. Fork Rose Ck.; S_2 = 80° to c.a. @ 495; 480-S, 483-S, 486-S											
501	607.5		Cpx-gar. tactite and silicated marble; variolated green, red & off-white, strongly banded, calcareous cpx/clinoamp-andradite garnet skarn or tactite & interbanded silicated marble; unit as exposed N of diversion ditch & in 78X-1, 67F-2, 67F-3, 456-75-11 etc; S_2 = 75° @ 525, 90° @ 560'; 507-S, 512-S, 525 F_2 // S_2 dip, 525-580- largely pervasive S_2; 580-S.											
607.5	653.5		Quartz-feldspathic bio-musc schist; as 478-501 w/ essentially no andalusite porphs; S_2 = 40° @ 641'; interval 609-653.5 heavily sericitized similar to 339-350; 609-S, 616-S, 617-M, 623-624-M.											
653.5	777		Hb-bio-diorite; med. gray-green, finely porphyritic, variably altered diorite sill/dike; contact 65° to c.a. @ 653.5; gouge to extremely heavily altered diorite 653.5-658; interval 658-679 kaolinitized (?) and altered along & by qtz-$CO_3^=$ filled fractures, some fractures have black py/marcasite along fracture surface; interval 658-679 nearly identical to 2302-2406' in 456-75-12; interval 775-775 " " 658-679 & may indicate approach to base of intrusive											