

Diamond Drill Record 016099

YEAR: _____		HOLE SURVEY		
COORDINATE: _____	7607.80 N	FOOTAGE	AZIMUTH	DIP
EAST: _____	13,638.88 E			
ELEVATION: _____	3,759.67 (meters)			
LOGGED BY: _____				
DATE LOGGED: _____				
MAP REFERENCE NO.:		METHOD: _____		

COMPANY NAME _____
 PROPERTY NAME _____
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

HOLE NO. 456-75-12
 CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. _____

018
3D

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS				RECOVERY					
				FROM	TO	WIDTH	NO.					INTERNAL	RECOVERY	INTERNAL	RECOVERY		
0	96		<u>Overburden</u>											96-97	1.0'	264-272.5	8.0'
96	166.5	OP	<u>Calc-Sil-Phyllite or Calc Phyllite</u> ; variably calcareous, thinly banded, lt. grey to beige, zone of blocky or broken core @ 96'-99'. Unit becomes increasingly biotitic towards base with banding varying between thin and laminar. 6" zone @ 164' of pyritic (<1%), diopside-post D ₂ veinlet of qtz & calcite. Variably carbonaceous; S ₂ = 75°-80° to c.a. @ 100'; S ₂ = 75° to c.a. @ 150'											97-98	1.0'	272.5-276	3.5'
166.5	191.5	116	<u>Calc-Sil-Phyllite</u> ; blue-grey chlor-clino-amph assemblage bands interleaved with purplish-brown-bio-bands, non-calc, minor (<<1%) zones of po & py near qtz veinlets, thinly to laminarly banded											98-168.5	10.5'		
191.5	203.5		<u>Calc-Sil-Phyllite</u> ; of xllina, blue-grey-green chlor-clino-amph, massive to weakly banded, variably calcareous, minor py and po (<<1%) in qtz-CO ₂ post D ₂ cross-cutting fractures; S ₂ = 75° to c.a. @ 200'											106.5-117	9.0'		
203.5	234.5	OP	<u>Calc-Sil-Phyllite</u> ; strongly calcareous, becomes similar to 96'-166.5' after a short gradational unit of laminarly to moderately interbanded calcite rich layers & chlor-clino-amph bands. Biotite increases while chlor-clino-amph decreases to shortly disappear downhole. Zone of crumbly and blocky core @ 205'-209'											117-120	2.5'		
234.5	242.5		<u>Calc-Sil-Phyllite</u> ; interbanded purplish-brown-bio, blue-grey-chlor-clino-amph & scattered off-white calc-bands. This unit sees the re-introduction of the chlor-clino-amph-bands and the reduction to only a few widely scattered calcareous bands. From 234.5'-237': Zone of blocky core and calcite/qtz veinlets. Thinly Banded.											120-124	4.0'		
242.5	250	OP	<u>Calc-Sil-Phyll</u> ; as 203.5-234.5, Unit characterized by the reduction of chlor-clino-amph assemblage bands and a sharp increase in calcareous bands, S ₂ = 85° to c.a. @ 250'											124-134	10.0'		
250	276	115	<u>Calc-Sil-Phyllite</u> ; thinly to laminarly banded alternating sequence of blue grey chlor-clino amph, dk brown to purplish brown-bio and widely scattered calcareous bands. 1' zone of strongly calcareous phyllite cf. 203.5'-234.5' @ 260'. Breccia zones @ 263' (ep-chlor-clino amph) & dk green matrix and @ 274': a 2" post D ₂ band with a lt. green matrix and polymictic clasts. Unit becomes perceptively more calcareous towards base.											134-144	10.0'		
														144-154	10.0'		
														154-164.5	10.5'		
														164.5-175	10.5'		
														175-185	10.0'		
														185-190	10.0'		
														190-200	10.0'		
														200-207.5	7.5'		
														207.5-215	7.5'		
														215-225	10'		
														225-235	9.75'		
														235-246	10.75'		
														246-253.5	7.5'		
														253.5-264	10.5'		

Diamond Drill Record

GOLLAR: NEUTRAL _____		HOLE SURVEY		
		FOOTAGE	AZIMUTH	DIP
EAST _____				
ELEVATION _____				
LOGGED BY _____				
DATE LOGGED _____				
MAP REFERENCE NO. _____		METHOD: _____		

COMPANY NAME _____
 PROPERTY NAME _____
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

HOLE NO. 454-75-12
 CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. _____

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS				RECOVERY						
				FROM	TO	WIDTH	NO.					INTERVAL	RECOVERY	INTERVAL	RECOVERY			
276	292		Calc-Sil-Phyll; as 234.5-242.5, variably carbonaceous with a fair no of hairline calc-stringers. Majority of unit is an alternating sequence of blue-gray chlor-clino-amph bands & purplish-brown bio-phyllite. Unit exhibits bull gtz. veinlets (< 1% py associated) and epidote filled hairline fractures. Biotite bands decrease towards base of unit in an irregular manner.															
292	415.5		Calc-Sil-Phyllite and Bio-Phyllite Interbanded; redish brown bio-phyllite comprises between 20%-30% of total unit while the blue-green-gray chlor-clino-amph makes up the remaining portion of the unit. The bio bands are spaced randomly throughout in varying thicknesses. Minor epidote development particularly within fracture zones suggesting a secondary origin, variably calcareous; S ₂ = 75° to c.a. @ 300', S ₂ = 80° to c.a. @ 350'; S ₂ = 80° to c.a. @ 400'															
415.5	423		Carbonaceous Calc-Sil-Phyllite; thin to laminary banded, grey to black calcareous phyllite; minor (< 10%) Chlor-Clino-Amph-bands + calcareous bands, variably pyritic; generally < 1% but up to 15% over 1" bands, no base metals.															
423	473		Calc-Sil-Phyllite and Bio-Phyllite Interbanded; as 292-415.5. However a 2' interval @ 444'-446' and a 1' interval @ 464'-465' of bio-musc-andul-schist assemblage. This demonstrates the gradational nature of the phyllite-schist map unit contact. Variably calcareous and randomly carbonaceous throughout interval. Minor py & po (< 1%) bands and blebs. Zone of broken core @ 469'-472'. S ₂ = 90° to c.a. @ 450'															
473	476		Bio-Musc-Andul-Schist; Brown to gray laminary banded with near black andalusite porphs non-calc, non-mag; Description also applies to 344'-346' and 364'-365' BMA's intervals															
476	534		Transitional Zone of Interbanded Calc-Sil-Phyllite, Bio-Phyllite and Carbonaceous-Calc-Sil-Phyllite; as 292-415.5 & 423-473 But with a greater proportion of carbonaceous bands, weakly calcareous															

3D
3A

Diamond Drill Record

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
NORTH _____			
EAST _____			
ELEVATION _____			
LOGGED BY _____			
DATE LOGGED _____			
MAP REFERENCE NO. _____	METHOD: _____		

COMPANY NAME _____
 PROPERTY NAME _____
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

HOLE NO. 456-TS-12
 CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. _____

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS				RECOVERY				
				FROM	TO	WIDTH	NO.					INTERVAL	Recovery	Interval	Recovery	
803	810	(concluded)	S ₂ = 55° to c.a. @ 812'									801.5-809	6.5'	100-1020	10'	
810	965.7		Bio - Musc-Andul-Schist; as 543.5'-597' & 598'-732.5', numerous 3"-12" bull qtz pods/veins; disseminated po general s/lk @ 833'-857', No base metal sulfides seen.									4po Zones g 534 - 549	809-819	10'	1020-1030	10'
			S ₂ = 70° to c.a. @ 850', S ₂ = 75° to c.a. @ 900', S ₂ = 80° to c.a. @ 950'. Gouge Zones as follows: 830.5'-831.5' & 924.75'-927.5'									573 - 751	819-829	10'	1030-1040.5	10.5'
												833 - 857	829-839	10'	1040.5-1050.5	10.5'
												1099.5 - 1289.5	839-849.5	10'	1050.5-1061	10.5'
965.7	1082.5		Porphyritic Hb - Bio - Diorite; massive unfoliated med grey-brown porphyritic (Hb - Bio - Plag)										849.5-857	7.75'	1061-1071.25	10-25'
			Post-D ₂ diorite with fractures as follows: @ 1001.5' 1" gouge 40° to c.a. @ 1012' 0.5" gouge 30° to c.a.										857-867	10.0'	1071.25-1081.5	10'
			Interval 1066.5' - 1082.5': irregularly fractured with qtz/CO ₂ fracture fill. Minor xenoliths.										867-877	10'		
													877-887	10'		
													887-897.5	10'		
													897.5-907.5	10'		
													907.5-917.5	9.0'		
													917.5-928	10.25'		
													928-938.25	10.25'		
													938.25-948.25	10'		
													948.25-958.25	10'		
													958.25-969	10'		
													969-979.25	10'		
													979.25-989.5	10.5'		
													989.5-999.5	10'		
													999.5-1010	10'		

Diamond Drill Record

COLLAR:	HOLE SURVEY		
NORTH _____	FOOTAGE	AZIMUTH	DIP
EAST _____			
ELEVATION _____			
LOGGED BY _____			
DATE LOGGED _____			
MAP REFERENCE NO. _____	METHOD: _____		

COMPANY NAME _____
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 ASSAYER _____
 PURPOSE OF HOLE _____

HOLE NO. _____
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ICD

ICD

IC

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS				RECOVERY				
				FROM	TO	WIDTH	NO.					Interval	Recovery	Interval		
1331	1336.5		Musc-bio-andalusite schist; c.f. 1303-1316; interval pervasively cut by post-Dr gto pods/veins; @ 1333' schist map unit enters transitional zone intruded between 534-1333 and 1528-2302										1339.5-1337	7.5'	1536.5-1548.5	10'
1336.5	1440.5		Bio-musc- ^{staur.} andalusite schist; med. gray brown, coarsely porphyroblastic bio > musc, pelitic schist; this unit c.f. 1082.5-1303 except slightly more gto-feldspathic and bio is reddish brown similar to gto-feldspathic schists lower in strat-sequence; resin brown staur porphs (≈ 0.1-0.2") scattered throughout interval; interval 1419.5-1437' contains po as ab. forming mineral (1-5% po) c.f. 1029.5-1281.5'; no apparent base metal, sulfides										1337-1346	7.75'	1548.5-1557	10.3'
													1346-1355.5	10.5'		
													1355.5-1364	10'		
													1364-1376	10'		
													1376-1384	10'		
													1384-1385	10'		
													1386-1395	10'		
													1396.5-1407	10.25'		
													1407-1417	10'		
1440.5	1448.5		Chlor-clinoamph-ep schist/metacrinite; med. gray green, thinly banded slightly carbonaceous schist of probable metavolcanic origin										1417-1427	10'		
													1427-1487.5	10'		
1448.5	1452.25		Bio-musc-andalusite schist; as 1336.5-1440.5 except staur absent										1437.5-1447.5	10'		
			S ₁ = 80° to c.a. @ 1450'										1447.5-1457.5	10'		
1452.25	1455		Chlor-clinoamph-ep schist/metacrinite; as 1440.5-1448.5										1457.5-1468	10'		
1455	1528		Bio-musc-and schist and bio-musc-staur-gro schist; med. gray brown, coarsely porphyroblastic, bio > musc pelitic schists w/ variable ϕ assemblages; unit more gto-feldspathic than 1082.5-1303 w/ complete Dr ^{and indispent Du(?) folging} transportation; no appreciable po although minor scattered blks										1468-1478.25	10.25'		
													1478.25-1487.5	9.25'		
													1487.5-1497.5	10'		
													1497.5-1507.5	10'		
													1507.5-1518	10.5'		
1528	1564		Quartz-feldspathic bio-musc ^{staur.} schist and minor bio-musc-and schist; from approx 1528 schist map unit becomes more gto-feldspathic and andalusite										1518-1528.5	10'		
													1528.5-1538.5	10'		

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NORTH _____	FOOTAGE	AZIMUTH	DIP	
EAST _____				
ELEVATION _____				
LOGGED BY _____				
DATE LOGGED _____				
MAP REFERENCE NO. _____	METHOD: _____			

COMPANY NAME _____

PROPERTY NAME _____

DRILLING CONTRACTOR _____

ASSAYER _____

PURPOSE OF HOLE _____

HOLE NO. 486-12

CLAIM NAME _____

COMMENCED _____

FINISHED _____

PROJECT NO. _____

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219

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS				RECOVERY			
				FROM	TO	WIDTH	NO.					Interval	Recovery	Interval	Recovery
1998.5	2004.5		Bio-Musc-Corn-Andul-Schist; dk brown, 2 mica schist with pyroalbite garnet and minor andulants. $S_2 = 75^\circ$ to c.a. @ 2000'									1998.5-2008.5	10'	2208.5-2215.5	10.5'
2004.5	2014.5		Musc-Bio-Schist; as 1948.5-1961' & 1988.5-1998.5' Note all musc-bio schists in this hole similar to white mica envelope. Gauge zero @ 2009.5-2011' & @ 2006.5-2008									2008.5-2011.25	9.75'	2215.5-2225.5	10'
2014.5	2086.5		Qtz-Feldspathic Bio-Musc Schist; med grey brown, bio > musc - schist with minor stau and garnet and incomplete ^{D4} transposition of D_2 fabric. $S_2 = 75^\circ$ to c.a. @ 2051'. Note many F_4 hinges but can't measure accurately relative to S_2									2018.25-2029	10'	2225.5-2236	10.5'
2086.5	2090		Musc-Bio-Schist; as 1988.5-1998.5'									2029-2039.25	10.25'	2236-2243	6.75'
2090	2188		Quartzo-Feldspathic - Bio-Musc-Corn-Schist; dk grey brown, bio > musc, sub-aluminous schist with no stau or andul; incomplete D_4 transposition of D_2 fabric; $S_2 = 90^\circ$ to c.a. @ 2100', $F_4 = 11$ to line of $S_2 \Sigma$ @ 2128, $S_2 \approx$ sub vertical from 2127-2146', this may represent F_4 hinge. With $S_2 = S_1 = 70^\circ$ to c.a. either end this interval; $S_2 = 70^\circ$ to c.a. @ 2157'									2039.75-2049.75	10.5'	2243-2253	10'
2188	2191		Chkr-Chino-Amph Schist / Metabasite; massive med blue green, finely xlnio amph or metabasite of probable metavolcanic origin.									2049.75-2060	10'	2253-2263	10'
2191	2272	100	Quartzo-Feldspathic - Bio-Musc-Corn-Schist; as 2090-2188; S_2 sub vertical @ 2192-2230 this probably a moderately large F_4 hinge zone $S_2 \approx S_1 = 65^\circ$ to c.a. @ either end this interval; @ 2191-2192 good example of post- D_2 (F_4 ?) fold in S_2 w/ different orientations of F_2 and F_4 axis, axial plane of $F_4 \approx 85-90^\circ$ to c.a. @ 2191.5, F_2 axial plane $\approx 70^\circ$ to c.a. @ 2192.5; $S_2 = 70^\circ$ to c.a. @ 2203'									2060-2070.25	10.25'	2263.3-2272	8.5'
												2070.75-2080.5	10.25'	2272-2282	10'
												2080.5-2090.75	10.25'	2282-2292	10'
												2090.75-2096	4.8'	2292-2302	3'
												2096-2106	9.5'	2302-2313.5	4.5'
												2106-2116	10'	2313.5-2323.5	10'
												2116-2126.5	10.5'	2323.5-2334	10'
												2126.5-2136.5	10'	2334-2344	10'
												2136.5-2146.5	10'	2344-2353	9.25'
												2146.5-2157.75	10.25'	2353.3-2363.5	10'
												2157.75-2166.75	10'	2363.5-2373.5	10'
												2166.75-2174.5	7.5'	2373.5-2384	10.25'
												2174.5-2185	10.25'	2384-2396.5	2.25'
												2185-2195	10'	2396.5-2399	4.8'
												2195-2205	10'	2399-2402.5	7.25'

Diamond Drill Record

COLLAR:		HOLE SURVEY		
NORTH _____	FOOTAGE	AZIMUTH	DIP	
EAST _____				
ELEVATION _____				
LOGGED BY _____				
DATE LOGGED _____				
MAP REFERENCE NO. _____	METHOD: _____			

COMPANY NAME _____
 PROPERTY NAME _____
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

HOLE NO. 456-75-12
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FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS					
				FROM	TO	WIDTH	NO.						
2272	2302	108	Musc-bio-chlor-ger schist; med. greenish beige and dk. brown, inter-banded sequence of musc-chlor-bio and bio-musc-chlor schists w/ brown-pink pyroxene garnets; moderately complete D ₄ truncation of D ₂ fabric; S ₁ =S ₂ =70° to ca. @ 2283'										
2302	2406		Subvolcanic 2 feldspar ± bio. granodiorite / gneiss of Anvil Batholith; med. x-line, gray beige, variably kalinized(?), variably biotitic granitic rocks of Anvil Batholith; zone of brecciation 2340-2342 w/ subrounded v. finely py. frags and subrounded to angular porphyritic granitic fragments in med-dk gray aphanitic post-main-stage granitic matrix; white bull gty vein 2386-2387.75' (area where H ₂ O hit in hole)										
			<p><u>Note:</u> S₂/S₄ relationships suggest a megascopic F₄ fold hinge from ~ 2106' to 2235' (~150') where S₂ is subvertical or // to core axis than the interval</p> <p>Schist map unit divided into 3 subdivisions in this hole:</p> <ol style="list-style-type: none"> 1) 534-1333' - gray, aluminous bio-musc-and. schist 2) 1333-1528' - gray brown, weakly aluminous, weakly gty-felds.-bio-musc-and schist (transitional zone) 3) 1528-2302 - brown, non-aluminous gty-feldspathic bio-musc±stau±ger schist 	} probably several small F ₄ S see log.									

Diamond Drill Record

HOLE SURVEY	
NORTH _____	FOOTAGE
EAST _____	AZIMUTH
ELEVATION _____	DIP
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COMPANY NAME _____
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 ASSAYER _____
 PURPOSE OF HOLE _____
 NQ to 741', BQ to 2632'

HOLE NO. 456-75-13
 CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. _____

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS			
				FROM	TO	WIDTH	NO.				
0	29.5	11	Orebedrock							Interval	Recovery
29.5	80.5	3D	Calc-silicate phyllite; med. brownish gray, thinly banded, highly carbonous calc-silicate phyllite w/ alternating gray white calcite >> deep and brownish gray bio. phyllite band 0.1" to 3.0" in thickness; interval very CaCO ₃ rich not as exp/chem. rich as top of 456-75-12; incomplete D ₂ transposition of D ₁ fabric w/ pervasive F ₂ hinges; interval non-magnetic, non-graphitic; S ₂ = 80° to c.o. @ 50'; numerous D ₂ bedding structures in bio phyll. as commonly seen in this unit; S ₂ = 70° to c.o. @ 60' when F ₂ is 20° to line of S ₂ strike plunging NW; gouge zone 70.25-71.5 @ 70° to c.o.							29.5-31	1.5'
										31-34.5	1.75'
										34.5-37	2.5'
										37-41	3.75'
										41-47.5	6.0'
										47.5-57.75	10.25'
										57.75-61.75	7.0'
										61.75-67.75	3.0'
										67.75-72	3.5'
										72-78.5	4.5'
80.5	82.25	BXA	Quartz-calcite healed fault breccia; part D ₂ brecciation of calc-silicate phyllite unit w/ gouge zone (2") @ 45 to c.o. @ 81'							78.5-81.5	3.75'
82.25	114	3D →	Calc-silicate phyllite; as 29.5-80.5; S ₂ = 45° to c.o. @ 102' when L ₂ = F ₂ = 65° to line of S ₂ strike plunging SW; entire calc-silicate phyllite map unit to this point (29.5-114) is CaCO ₃ rich facies c.f. carbonous phyllite bands in 456-75-12							81.5-88	5.5'
		SBO								88-89.5	1.5'
										89.5-99.5	10'
										99.5-106.5	6'
										106.5-117	10.5'
114	140	3D0	Calc-silicate phyllite; typical lt.-med. ^{yellow} green exp. ep.-CO ₂ and purplish brown bio phyllite bands interbedded on a 0.2-2.0" scale; diagnostic lithology for calc-silicate map unit; unit 20-80% exp bearing bands w/ minor CaCO ₃ rich (marble) interbeds; S ₂ = to c.o. @ 137'; L ₂ (?) ⊥ to line of S ₂ strike plunging SW							117-124.5	7.25'
										124.5-132.5	8.0'
										132.5-139.5	5'
										139.5-142	3.5'
										142-152	10'

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COLLAR:		HOLE SURVEY		
		FOOTAGE	AZIMUTH	DIP
NORTH _____				
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FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS						
				FROM	TO	WIDTH	NO.					Interval	Recovery	
140	142.5	BXA	<i>Crackle breccia in carbonaceous calc-silicate phyllite; med. dk gray green, thinly banded, slightly carbonaceous calc-silicate phyllite w/ several crackle breccia zones @ 45° to c.a. thru interval; brecciation post-D₂ in age w/ diorite (?) glass as probable matrix for & breccia frags. of all sizes; all frags. of calc-silicate phyllite</i>									152-160.5	8.3'	
													160.5-171	10.3'
													171-180.5	8.9'
													180.5-190.5	10'
142.5	161	3DO	<i>Calc-silicate phyllite; as 144-140; S₂ = 80° to c.a. @ 150' w/ L₂ = F₂ @ 60° to line of S₂ strike plunging 45</i>									190.5-197.5	7'	
													197.5-207.5	9.75'
161	177	3DO	<i>Calc-silicate phyllite; med-dk. like green chlor-chromoph (?) calc-silicate bands (60-70%) and purpled brown bio phyll. bands (30-40%) w/ minor CaCO₃ rich bands</i>									207.5-212	4.5'	
													212-214.5	2.5'
													214.5-223.5	9'
177	204	3D	<i>Calc-silicate phyllite; as 29.5-80.5; S₂ = 70° to c.a. @ 181.5' where L₂ = F₂ = 50° to line of S₂ strike plunging SE</i>									223.5-232.5	9'	
													232.5-241.5	9'
204	208	3DO	<i>Calc-silicate phyllite; as 161-177</i>									241.5-251.5	10'	
208	229.5	3D	<i>Calc-silicate phyllite; as 29.5-80.5, 177-204; calcareous phyllite member of calc-silicate map unit; S₂ = 80° to c.a. @ 219' where F₂ = L₂ = 40° to line of S₂ strike plunging SW</i>									251.5-262	10.5'	
													262-272	10'
													272-282.5	10'
229.5	235	3D	<i>Calc-silicate phyllite; as 161-177, 204-208</i>									282.5-292.5	10'	
235	272	3D	<i>Calc-silicate phyllite; as 29.5-80.5, 177-204, 208-229.5; calcareous phyllite member of calc-silicate map unit; S₂ = 80° to c.a. @ 250' where L₂ = F₂ = line of S₂ strike; S₂ = 85° to c.a. @ 263 where L₂ = F₂ = 30° to line of S₂ strike and plunges SW</i>									292.5-302	9.5'	
													302-311	9'
													311-316	5'
													316-326	10'
												326-336	10'	

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COLLAR:		HOLE SURVEY		
NORTH _____	FOOTAGE	AZIMUTH	DIP	
EAST _____				
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FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS							
				FROM	TO	WIDTH	NO.					Interval	Recovery		
272	328	3D9	Graphitic calc-silicate phyllite; dk gray to black, thinly banded, variably graphitic calcareous phyllite member of calc-silicate map unit; essentially no calc-silicate minerals in this interval; $S_2 = 80^\circ$ to c.a. @ 300.5 where $L_2 = F_2 = 35^\circ$ to line of S_2 strike and plunge W; from 311 to 328 unit becomes less graphitic with up to 20% calc-silicate bands											326-346.5	10.2'
														346.5-356.5	10'
														356.5-369.5	3'
														369.5-389.5	10'
														389.5-371	1.9'
														371-381.5	10.2'
328	331	3D	Calc-silicate phyllite; as 161-177, 204-208, 229.5-235; interval approx 60% blue green calc-silicate and 40% bio phyll bands											381.7-387	5'
														387-397	10'
331	399	3D → 5B0	Calc-silicate phyllite; as 29.5-80.5, 177-204, 208-229.5, 235-272; calcareous phyllite member of calc-silicate map unit; $S_2 = 70^\circ$ to c.a. @ 333 where $L_2 = F_2 = 20^\circ$ to line of S_2 strike and plunge SE; numerous 2-6" gray-white finely shaly marble bands through interval; $S_2 = 75^\circ$ to c.a. @ 358' where $L_2 = F_2 = 10^\circ$ to line of S_2 strike and plunges W											397-400.75	3.75'
														400.75-405	3.75'
														405-413.5	9.0'
														413.5-415.5	1.1'
														415.5-426	10.2'
399	402	FLT	Fault gouge in calc-silicate phyllite; 3' zone of clay rich fault gouge @ about 70° to c.a. ; could be major D ₂ thrust											426-436.25	10.2'
														436.25-446.5	10.2'
402	444	3D → 5B0	Calc-silicate phyllite; as 331-399; calcareous phyllite member of calc-silicate phyllite map unit; $S_2 = 70^\circ$ to c.a. @ 408' where $L_2 = F_2 = 0^\circ$ to line of S_2 strike; 3" gouge zone @ 50° to c.a. 415.25-415.5'; 1-3" gouge zone @ 60° to c.a. @ 437.5'; 2" gouge zone @ 70° to c.a. @ 438.25											446.5-457	10.2'
														457-463	6'
														463-473	10'
														473-476	3'
444	446.5	3D0	Calc-silicate phyllite; as 161-177, 204-208, 229.5-235, 328-331; approx 70% blue green chlorophyll-bearing assemblage, 30% bio phyll assemblage.											476-486	10'
														486-496.5	10.2'

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COLLAR:		HOLE SURVEY		
NORTH _____	FOOTAGE	AZIMUTH	DIP	
EAST _____				
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FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS			
				FROM	TO	WIDTH	NO.				
446.5	452	3D → SBO	Calc-silicate phyllite; as 331-399, 402-444; carbonaceous phyllite member of calc-silicate map unit; $S_2 = 85^\circ$ to c.a. @ 450 where $L_2 = F_2 = 0^\circ$ (all) to line of S_2 strike							Interval	Recovery
										446.5-506.5	10'
										506.5-516.75	10.2'
										516.75-527	10.1'
452	471	3DO	Calc-silicate phyllite; as 444-446.5; blue green chloramphibole-chlor bearing calc-silicate assemblage w/ approx 50% calc-silicate bands, 50% bio. phyll. bands							527-537	10'
										537-547	10'
										547-553	6'
471	483.25	3DO	Carbonaceous calc-silicate phyllite; cf. 331-399, 402-444, 446.5-452 except interval slightly carbonaceous; interval is variably carbonaceous calcareous phyllite member of calc-silicate map unit; D_2 transposition of D_1 fabric more complete than this interval than any in 471.5-483.25; $S_2 = 90^\circ$ to c.a. @ 476'							553-557	4'
										557-567	10'
										567-577	10'
										577-587.5	10.2'
										587.5-597.5	10'
483.25	484.5	3DO	Calc-silicate phyllite; as 444-446.5, 452-471							597.5-608	10'
484.5	489.5	3D → SBO	Calc-silicate phyllite; as 331-399, 402-444, 446.5-452							608-618	10.2'
489.5	501	3DO	Calc-silicate phyllite; as 444-446.5, 452-471, 483.25-484.5; approx 90% blue green chloramph. bearing calc-silicate bands, 10% bio. phyll.; $S_2 = 65^\circ$ to c.a. @ 498.5 where $F_2 = L_2 = 0^\circ$ (all) to line of S_2 strike; note varying attitude of L_2/F_2 in S_2 plane implies curvilinear F_2 fold axes							618-628.5	10.2'
										628.5-639	10.1'
										639-649	10'
										649-659.5	10'
501	505.25	3D → SBO	Calc-silicate phyllite; as 331-399, 402-444, 446.5-452, 484.5-489.5							659.5-669.5	10'
505.25	516	3DO	Calc-silicate phyllite; as 489.5-501; approx 80-90% blue green chloramphibole bearing assemblage; these mafic units may represent metabasalt flows/tuffs w/in calc-silicate sequence							669.5-679.5	10'
										679.5-690	10.2'
										690-700	10'

re-folded

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COLLAR: NORTH _____ EAST _____ ELEVATION _____ LOGGED BY _____ DATE LOGGED _____ MAP REFERENCE NO. _____		HOLE SURVEY		
		FOOTAGE	AZIMUTH	DIP
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FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS						
				FROM	TO	WIDTH	NO.					Interval	Recovery	
516	534	3D→5B0	Calc-silicate phyllite; ca 501-505.25; calcareous phyllite member of calc-silicate map unit; $S_2 = 70^\circ$ to ca. @ 518.75 where $L_2 = F_2 = 0^\circ$ (or 11) to line of S_2 strike										700-710	10'
													710-714	4'
													714-723	9'
534	539	3D03	Calc-silicate phyllite; approx 50% blue green clinomph. bearing calc-silicate bands, 25% off-white marble bands and 25% med.-dk brown bio. phyll. bands; 1" qtz-white filled, prot D_2 crackle bria @ 45° to ca. @ 536.75'										723-733	10'
													733-741	8'
													741-744	2.75'
													744-754	10'
539	575.5	3D→5B0	Calc-silicate phyllite; ca 501-505.25, 516-534; calcareous phyllite member of calc-silicate map unit; approx 60% med.-dk brown thinly banded, slightly carbonaceous bio. phyll. bands and 40% ca. 0.5" off-white calcareous or marble bands showing pervasive F_2 development; $S_2 = 75^\circ$ to ca. @ 557 where $F_2 = 10^\circ$ to line of S_2 strike and plunges 65										754-765	10'
													765-775	10'
													775-785	10'
													785-795.5	10.2'
													795.5-805.5	10'
													805.5-814	10.2'
575.5	578	3D[3C]	Calc-silicate phyllite; ca 505.25-516, 534-539; essentially 100% clinomph. bearing metabasite/amphibolite										814-826.25	10.1'
													826.25-832	5.5'
578	583	3D→5B0	Calc-silicate phyllite; ca 501-505.25, 516-534, 539-575.5; calcareous phyllite member of calc-silicate map unit; $S_2 = 80^\circ$ to ca. @ 580 where $F_2 = L_2 = 0^\circ$ (or 11) to line of S_2 strike										832-842.25	10.1'
													842.25-852.25	10'
													852.25-859	4.75'
583	601	3D(3C)	Calc-silicate phyllite; sequence of interbedded blue green, clinomph. bearing metabasite assemblage and brown biotite phyllite assemblage; interval 80% metabasite, 20% bio. phyllite;										859-867	9.5'
													867-877	10'
													877-887	10'

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FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS			
				FROM	TO	WIDTH	NO.				
			<i>metabasite or amphibolite bands → significant metabasite component to calc-silicate phyllite map unit.</i>							Interval	Recovery
										887-895.5	8.5'
										895.5-905.5	10'
601	614	3D → SB	<i>Calc-silicate phyllite; as 501-505.25, 516-534, 539-575.5, 578-583; calcareous phyllite, member of calc-silicate map unit; interval very thinly banded w/ nearly complete D₂ transposition of D₁ fabric; S₂ = 80° to c.o. @ 610.5 where F₂ = L₂ = 20° to line of S₂ strike and plunge W</i>							905.5-916	10.2'
										916-926	10
										926-936.5	10
										936.5-947	10
614	616	3C	<i>Calc-silicate phyllite; as 583-601; massive blue green metabasite</i>							947-957	10
616	640.5	3D(3C)	<i>Calc-silicate phyllite; as 601-614; calcareous phyllite member of calc-silicate map unit; approx 5-10% metabasite bands, 10-20% off-white thin marble bands and 70-85% reddish brown biotite phyllite bands</i>							957-967	9.75
										967-977	10
										977-986.5	9
640.5	644	3C	<i>Calc-silicate phyllite; as 583-601, 614-616; metabasite, massive blue green</i>							986.5-988.5	1.9'
644	653.5	3D(3C)	<i>Calc-silicate phyllite; as 616-640.5; S₂ = 75° to c.o. @ 649 where L₂ = F₂ = 0° (all) to line of S₂ strike</i>							988.5-997	8.5'
										997-1007	10
653.5	657	3C	<i>Calc-silicate phyllite; as 583-601, 614-616, 640.5-644; blue green weakly banded metabasite</i>							1007-1017.5	2.75'
										1017.5-1022.5	10'
657	659	3D → SB	<i>Calc-silicate phyllite; as 616-640.5, 644-653.5; calcareous phyllite</i>							1022.5-1032.5	10'
659	661	3C	<i>Calc-silicate phyllite; metabasite band as 583-601, 614-616, 640.5-644</i>							1032.5-1042.75	10'
661	664.5	3D(3C)	<i>Calc-silicate phyllite; as 616-640.5, 644-653.5, 657-659</i>							1042.75-1053	10.1'
664.5	749	3A	<i>Calc-silicate phyllite; interbedded blue green metabasite and brown biotite phyllite; banding on a scale of 0.5" to 3.0'; most of calc. rich marble bands have disappeared; interval similar to</i>							1053-1063.15	10.2'
										1063.15-1078.5	10.1'
										1078.5-1083	10.1'

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FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS						
				FROM	TO	WIDTH	NO.							
			bottom 100' of calc-silicate map unit; $S_2 = 85^\circ$ to c.a. @ 685'; meta- basite bands account for $\approx 70\%$ of this interval implying substantial metabasitic component to calc-silicate map unit; D_2 transposition of D_1 fabric nearly complete over this interval; $S_2 = 70^\circ$ to c.a. @ 733 3" gouge and bria zone @ 50° to c.a. @ 749									Interval	Recovery	
													1083-1093	10'
													1093-1103	10'
													1103-1113	10'
													1113-1123	10'
												1123-1133	10'	
749	768	3C	Metabasite; med dk green to blue green, weakly banded to massive metabasite or amphibolite; no relict D_1 fabric; $S_2 =$ 75° to c.a. @ 764'									1133-1143	10'	
												1143-1153	10'	
												1153-1163	10'	
768	787.5	3A	Calc-silicate phyllite; as 664.5-749; interbanded dk green-blue green metabasite and reddish brown bio. phyll.; approx 70-80% metabasite bands 20-30% bio. phyll.; complete D_2 transposition of D_1 fabric; $S_2 = 80^\circ$ to c.a. @ 784.5'; 1" gouge @ 90° to c.a. @ 773.5									1163-1173.5	10.2'	
												1173.5-1177	3'	
												1177-1187	10'	
												1187-1197	10'	
787.5	856	3A	Calc-silicate phyllite; interbanded sequence of variably carbonaceous lt. to med. green metabasite, reddish brown biotite phyllite, lt. yellowish green epidote-clinopyroxene metabasite and minor graphitic phyllite; sequence thinly banded (0.1"-2.0") w/ ribbon banded appearance in places; D_2 transposition of D_1 fabric complete; this interval identical to that @ base of calc-silicate unit in 456-75-12; 9" bull gts pod 793-793.75 w/ amorphous po >> py blebs and stringers (5% sulfides); stringers \equiv to similar occurrences in 1974 E. Swim Lake core; $S_2 = 70^\circ$ to c.a. @ 800'; foliafam (S_2)									1197-1207	20'	
												1207-1217	10'	
												1217-1227	10'	
												1227-1237	10'	
												1237-1247	9.8'	
												1247-1255.5	8.5'	
												1255.5-1266	10.2'	
												1266-1276	10.2'	
												1276-1286	10'	

probable 50' of
D₁ & G₁ Gram

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EAST _____				
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FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS						
				FROM	TO	WIDTH	NO.							
			blebs and amorphous bands of py from 1-5% total sulfide 832-852'; no base metal sulfides seen; entire 20' interval ferromagnetic w/ greatest sulfide concentrations in carbonaceous bands; interval should be analysed for Cu, Pb, Zn; S ₂ = 70° to ca. @ 852'								1286-1290	4'		
												1290-1300	10'	
												1300-1310.5	10.2'	
												1310.5-1321	10.2'	
												1321-1322	5'	
856	930	1D2	Carbonaceous bio-musc-andalusite schist; as 543-549 in 456-75-12; med. gray, thinly to laminarly banded bio ≈ musc schist w/ dk gray andalusite porphyroblasts; complete D ₂ transposition of D ₁ fabric w/ essentially no schist F ₂ hinges; degree of andalusite development << that in 456-75-12 oo zone not excessively aluminous; numerous, foliaform post-D ₂ gray white ball gtz pods; interval shows patchy and sporadic development of py but sulfide not part of P assemblage as 832-852; 6" zone of gouge and broken core 892.5-893; S ₂ = 80° to ca @ 877.5; S ₂ = 80° to ca @ 900'; 3" gouge @ 90° to ca @ 924; S ₂ = 85° to ca @ 926; interval becoming slightly mafic 920-930								1326-1327	1.3'	?	
											1327-1330.5	3.5'		
											1330.5-1336.75	5.25'		
											1336.75-1343	5'		
											1343-1347	4'		
											1347-1355	8'		
											1355-1360.5	5'		
											1360.5-1366	5.5'		
											1366-1374	8'		
											1374-1385	6'		
											1380-1384	4'		
930	962	1F0	Metatuffite; med. dk. green, weakly and thinly banded sequence of probable mafic tuffs on top of massive flow; massive unbandal metatuffite flow(?) 946-962; banded tuffs(?) 930-946; S ₂ = 80° to c.a. @ 957'; F ₂ = 70° to line of S ₂ strike @ 960.5; plugs 3&5									1384-1394	10'	
												1394-1395	1.5'	
												1395-1404	9'	
												1404-1409	4.75'	
962	971	1E	Graphitic gtz-musc. schist; dk. gray-black, thinly banded, mic and bearing									1409-1414	5'	

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EAST _____				
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FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS					
				FROM	TO	WIDTH	NO.						
			<i>graphitic schist c.f. that above Faro deposit; 1' gauge @ 40° to c.a. 970-971'</i>									1414-1421	7'
971	974	1D41	<i>Qtz-musc± chlor schist; beige, thinly banded, very siliceous schist similar to white mica envelope lithology but much more siliceous; could be meta^m. acidic tuff; no sulfides noted; D₂ transposition of D₁ fabric complete; unit foliaform</i>									1421-1426.5	5'
												1426.5-1436.5	10'
												1436.5-1447	10'
												1447-1457	10'
974	987	1E1	<i>Graphitic Qtz-musc schist; as 962-971; c.f. graph. schist above Faro deposit S₂ = 0° to c.a. from 485.5-486.5, this probably post D₂ fold along sole of thrust fault as gauge and blocky core 986-987; strong gauge @ 987' @ 40° to c.a.</i>									1457-1467	10'
												1467-1472	5'
												1472-1482	10'
												1482-1486	3.9'
												1486-1496.5	10.2
987	994	BXA	<i>Brecciated Qtz-musc± chlor schist; heavily brecciated S₀ or healed unit of identical lithology to 971-974; gauge zones at top & bottom of interval; gauge @ 987 = 40° to c.a.; gauge @ 994 = 25° to c.a.</i>									1496.5-1504.5	7.25
												1504.5-1509	4'
												1509-1510	.5'
												1510-1520.5	10'
994	1054	1E1	<i>Graphitic Qtz-musc schist; med. dk. gray to black, lamurally to thinly banded, heavily S₂ foliated, siliceous, variably graphitic schists; all graphitic Qtz-musc schists to this depth not true graphitic schists as seen in parts of pit but definitely similar to ^{some} graphitic zones above Faro deposit; S₂ = 50° to c.a. @ 994.5'; S₂ = 75° to c.a. @ 1012.5 where F₂ = 0° (c.u.) to line of S₂ strike; interval shows some weakly</i>									1520.5-1530.5	10'
												1530.5-1540.5	10'
												1540.5-1551	10.2
												1551-1561	10'
												1561-1571	10.2
												1571-1581.5	10'
												1581.5-1599	9.0'

*Too siliceous
 graph. of types
 1E19 [5A19]
 Fishhook ck. stuff*

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COLLAR:		HOLE SURVEY		
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EAST _____				
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FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS			
				FROM	TO	WIDTH	NO.				
			@ 1208' ; S ₂ = 70° to c.a. @ 1202' ; S ₂ = 80° to c.a. 1223.5 where F ₂ = 80° to line of S ₂ strike and plunges SW ; S ₂ = 85° to c.a. @ 1255' ; S ₂ = 80° to c.a. @ 1290' ; 4" gouge zone @ 80° to c.a. 1177.25-1177.5 ; 1' gouge 1253'-1254' @ 70° to c.a.								
1318.5	1327	IE	Graphitic gtz-musc-schist ; as 994-1054 ; interval non-magnetic and variably pyritic ; 6" section 1-3° to py 1326-1326.5 ; S ₂ = 50° to c.a. @ 1326' ; D ₂ transposition of D ₁ fabric nearly complete								
1327	1328	IOF	Qtz porphyry dke/sill ; lt. gray ^{aphanitic} weakly porphyritic, mod. fractured and gtz healed, post-D ₂ sub-foliated but discordant granitic gtz porphyry w/ << 1° to py					0	856	CS	
								856	1374	BMAS	At top member
								1374	1515	MOS	WME?
1328	1357.75	IE	Graphitic gtz-musc-schist ; as 994-1054, 1318.5-1327 ; interval non- magnetic and variably pyritic w/ 3-1" zones of 25° to py (1345', 1349, 1352) ; post-D ₂ (F ₄ ?) fold hinge 1341-1345 as S ₂ sub-ll to c.a. over this interval, cannot determine closure direction due to broken and blocky con over this interval ; S ₂ = 75° to c.a. @ 1350' ; 2" gouge 70° to c.a. @ 1351.5					1515	1588	BMAS	At top member??
								1588	1798	BMAS	Transition
								1798		QFBMS	OF lower member
1357.75	1364	IDO	Bio-musc-andalusite schist ; as 1106.5-1318.5								
1364	1373.75	IOE	Porphyritic bio-schists ; mod. brownish gray, porphyritic (plag, bio), massive, post-D ₂ ductile (?) sill/dike showing strongly discordant contact relations ; contact 70° to c.a. @ 1364, mig @ = 80° @ 1373.75								
1373.75	1389	ICD	Musc-bio-andalusite schist ; lt. mod. gray, weakly porphyroblastic, mainly foliated, musc & bio schist ; darker than white mica envelope								

IE 19 [5019] → 2A

Diamond Drill Record

GOLLAR:	HOLE SURVEY		
	NORTH _____	FOOTAGE	AZIMUTH
EAST _____			
ELEVATION _____			
LOGGED BY _____			
DATE LOGGED _____			
MAP REFERENCE NO. _____	METHOD: _____		

COMPANY NAME _____

PROPERTY NAME _____

DRILLING CONTRACTOR _____

ASSAYER _____

PURPOSE OF HOLE _____

HOLE NO. _____

CLAIM NAME _____

COMMENCED _____

FINISHED _____

PROJECT NO. _____

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS					
				FROM	TO	WIDTH	NO.					Interval	Recovery
1389	1390.25	10E P	Microcratic Post D ₂ Dyke; lt pinkish grey massive, unfoliated post D ₂ schist or dyke with <1% po+px; contact 65° to ca @ each end of interval									1754-1764	10
1390.25	1407	1D → 1D4	Qtz-Musc-And-Schist; lt greenish beige, heavily foliated schist with no biotite, thin to laminae, unit very similar to Fano White Mica Envelope. Six inch zone of angular finely siliceous massive pyroclasts 1400.5-1401									1764-1774	10
			S ₂ = 70° to c.a. @ 1400'. Complete transposition of D ₁ fabric into D ₂									1774-1784.5	10
1407	1410	1D0	Carbonaceous Qtz-Musc Schist; as 1390.25-1407 less andalusite, interval red to dk grey, thin to banded.									1784.5-1794.5	10
1410	1415	1D → 1D4	Qtz-Musc-And-Schist, as 1390.25-1407									1794.5-1804.5	10
1415	1416	1D0	Carbonaceous Qtz-Musc Schist; one foot interval c.f. 1407-1410, with 1/2" massive py band @ 1415.25									1804.5-1814.5	7
			No base metal sulfides									1814.5-1824.5	10
1416	1436.5	1D → 1D4	Qtz-Musc-And-Schist as 1390.25-1407, gouge zone 1420-1423, gouge @ 80° to c.a. @ 1420 & 20° to c.a. @ 1423. One inch zone py blebs @ 1423.5. Total py 10%. Gouge zone 1427-1428 @ 30° to c.a. @ 1427 & 1428									1824.5-1834.5	10
			Interval becoming slightly carbonaceous towards base.									1834.5-1842	10
1436.5	1446.5	BX	Heavily Gouged, Partially Brecciated Graphitic Qtz-Musc Schist; interval variably graphitic cut by numerous gouge zones and white bull gtz veins; Main gouge zone 1436.5-1439.5. Gouge 78° to c.a. @ both ends.									1842-1852	10
			One foot gouge zone 1441-1442 @ 60° to c.a. One foot gouge 1443-1444 @ 70° to c.a.									1852-1862	10
1446.5	1515	1D → 1D4	Qtz-Musc-Andul-Schist; as 1390.25-1407, andalusite approx 5%. Numerous disrupted andul-rich bands representing relict F ₂ hinges. Nearly complete D ₂ transposition of D ₁ fabric. S ₂ = 90° to c.a. @ 1451'									1862-1872	7.0
			4" gtz-pink andul pod @ 1475'. Minor py < 1% over interval. Interval non-mag/no po. seen. F ₂ to line of S ₂ Σ @ 1491'. S ₂ = 70° to c.a. @ 1490'. Gouge and breccia zone @ 1501-1503. Zone @ 65° to c.a.									1872-1879	7.0
1515			Interval of broken and blocky core 1500-1510. Entire interval almost identical to Fano White Mica Envelope.									1879-1889	10
												1889-1899.5	10
												1899.5-1909.5	10
												1909.5-1919.5	10
												1919.5-1930	10
												1930-1940.25	10
												1940.25-1950.5	10
												1950.5-1960.75	10

Diamond Drill Record

COLLARI:	HOLE SURVEY		
"ROTH"	FOOTAGE	AZIMUTH	DIP
LAST			
ELEVATION			
LOGGED BY <i>Dr. S. JENNINGS</i>			
DATE LOGGED			
MAP REFERENCE NO.	METHOD:		

COMPANY NAME _____
 PROPERTY NAME _____
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

HOLE NO. _____
 CLAIM NAME _____
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 PROJECT NO. _____

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS			
				FROM	TO	WIDTH	NO.				
1515	1588	ICD	Bio-Musc-Qtz Andalusite schist; alternating med dk brown to beige, thinly banded, variably biotitic Bio-musc schist. Interval becoming more siliceous with depth. $S_2 = 88^\circ$ to c.a. @ 1550', some chloritoid andalusite towards end of interval							Interval	Recovery
										1983.5-1971	10'
										1971-1981	10'
										1981-1990	9.0'
1588	1623	ICD	Bio-musc ^{± stau} andalusite schist; med. gray brown, thinly banded, early porphyroblastic, bio-musc. pelitic schist; equivalent to transition zone 1333-1528' in 456-75-12; essentially complete D_2 transposition of D_1 fabric; $S_2 = 90^\circ$ to c.a. @ 1600'; minor dia po in scattered 0.5" bands							1990-1998.5	8.5'
										1998.5-2008.5	10'
										2008.5-2015.5	7'
										2015.5-2016.25	0.75'
1623	1632.5	IF (ICD)	Interbanded metabasites and bio. schists; med gray green; thinly banded metabasites and dk. br. bio schists; 6"-2" thick meta- basite bands w/ 1"-6" bio schists							2016.25-2026.5	10'
										2026.5-2036.75	10'
										2036.75-2047	10'
1632.5	1712	ICD	Bio-musc-andalusite schist; as 1588-1623 w/ no visible stau; $S_2 = 80^\circ$ to c.a. @ 1694' where S symmetry F_2 axis line of S_2 strike; $S_2 = 85^\circ$ to c.a. @ 1680'; M symmetry F_2 @ 1686' ^{± 1701} ; in general, nearly complete D_2 transposition of D_1 fabric; $S_2 = 80^\circ$ to c.a. @ 1700'							2047-2057	10'
										2057-2067	10'
										2067-2070.5	3.1'
										2070.5-2074	3.5'
1712	1716.25	IF	Metabasite; med. yell. green, weakly banded hb-play metabasite							2074-2079.5	4.5'
1716.25	1798	ICD	Bio-musc-andalusite-stau ^{± gas} schist; med. gray brown, thinly banded, early porphyroblastic, somewhat gtop-feldspathic bio-musc. pelitic schist w/ some bi. stau & dk. blue gray and. porph.; interval of finite transposition zone as 1333-1528 in 456-75-12; major break in andalusite content @ 1798 where and. < 1%; S symmetry F_2 felds @ 1728.5, 1739, 1763, 1786, 1791.5 i.e. entire interval shows S symmetry							2079.5-2084	3.5'
										2084-2094.5	10'
										2094.5-2105	10'
										2105-2115	10'
										2115-224.5	9.5'
										224.5-238.5	8.5'

} should be 7
reversed!

Diamond Drill Record

COLLAR:	HOLE SURVEY		
MONTH _____	FOOTAGE	AZIMUTH	DIP
LAST _____			
ELEVATION _____			
LOGGED BY _____			
DATE LOGGED _____			
MAP REFERENCE NO. _____	METHOD: _____		

COMPANY NAME _____
 PROPERTY NAME _____
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

HOLE NO. _____
 CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. _____

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS			
				FROM	TO	WIDTH	NO.				
			$S_2 = 70^\circ$ to c.a. @ 1750' and 1797'							Interval	Recovery
1798	1980	1C0	Quartz-feldspathic bio-musc-staur ± gar schist; med. gray brown, thinly banded, incompletely D ₄ transposed, non-andalusite rock bio = musc schist; prominent banding / gneissosity; equiv to 1528-2302 in 456-75-12; S symmetry F ₄ folds @ 1801, 1819, 1820.5, 1850, 1853.5'; $S_2 = 80^\circ$ to c.a. @ 1801 where S symmetry F ₄ axis // to line S_2 strike; $S_2 = 70^\circ$ to c.a. @ 1850; $S_2 = 75^\circ$ to c.a. @ 1900; $S_2 = 90^\circ$ to c.a. @ 1950; $S_2 = 70^\circ$ to c.a. @ 1980; S symmetry F ₄ folds @ 1875.5, 1883, 1900-1902, 1914, 1934.5, 1939.5, 1979' i.e. S symmetry thru interval 1798-1980; essentially no po over entire interval as checked by hand magnet traverse							2133.5-2140	2.0'
										2142-2152.25	10'
										2152.25-2158.5	6.25'
										2158.5-2167	3.5'
										2167-2177	10'
										2177-2187	10'
										2187-2197	10'
										2197-2204	7.0'
										2204-2208	4'
										2208-2217.75	9.75'
										2217.75-2228	10'
										2228-2238	9.5'
1980	1981	1F	Metabasites; as 1712-1714.25							2238-2244	6.0'
1981	1983	1C0	Bio-musc-andalusite schist; med. gray brown, coaly porphyroblastic, thinly banded, completely transposed bio-musc-and schist of approx 20% andalusite porphs.							2244-2248.5	4.5'
										2248.5-2258.5	10'
										2258.5-2260.75	2.25'
1983	1985	1F(1C0)	Interbanded metabasites and bio schist; as 1623-1632.5; 90% metabasites							2260.75-2270.25	10'
1985	2027.5	1C0	Bio-andalusite-staur schist; non-gtsp-feldspathic, thinly banded, dk brown, coaly porphyroblastic, bio-musc-pelite schist w/ ~ 5% andalusite; S symmetry F ₄ folds @ 1994, 2002.5' $S_2 = 85^\circ$ to c.a. @ 2000'; 2" band 1-5% dms po @ 1993.6'							2270.25-2279.5	9.25'
										2279.5-2280.25	10'
										2280.25-2290.5	10'
2027.5	2031.5	1E	Granitic bio-musc schist; black highly graphitic, laminarly								

} all symm to SE
reverse
i.e. S E Z

Diamond Drill Record

COLLAR:	HOLE SURVEY		
NORTH _____	FOOTAGE	AZIMUTH	DIP
EAST _____			
ELEVATION _____			
LOGGED BY _____			
DATE LOGGED _____			
MAP REFERENCE NO. _____	METHOD: _____		

COMPANY NAME _____
 PROPERTY NAME _____
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

HOLE NO. _____
 CLAIM NAME _____
 COMMENCED _____
 FINISHED _____
 PROJECT NO. _____

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS					
				FROM	TO	WIDTH	NO.						
2255	2256	IB	Gas- <u>gneiss</u> <u>schist</u> ; as 2214-2240.5, 2251-2254										
2256	2262	ICD	Bio-musc schist; dk brown, completely D ₂ transposed, bimodally banded bio >> musc schist; typical bio rich schist assoc. w/ metabasites in lower member of schist unit; little or no andalusite										
2262	2288	ICO	Musc-bio-staur ± gas schist; blocky, dk brown bio-staur-gas schist clots in beige gty-musc schist; sub-equal amts. bio and musc-rich schists; 2" gouge zone @ 60° to c.o. @ 2274.5'; S symmetry F ₂ folds @ 2278' where S ₂ = 80° to c.o. and F ₂ = 0° (or 11) to line of S ₂ stipes; 2" gouge zone ≈ 70° to c.o. @ 2279.5'; full gty 2283-2285'										
2288	2361	ICD	Bio-musc-andalusite-staur schist; med. gray brown, thickly banded, coarsely porphyroblastic bio & musc, pelitic schists; identical to transition zone 1333-1528' in 456-75-12; nearly complete D ₂ transposition of D ₁ fabric w/ no good F ₂ examples for symmetry determination; ²²⁹⁵⁻²²⁹⁵ see S symmetry F ₄ @ 2296', S symmetry F ₄ folds @ 2300.5'-2301; FANTASTIC S symmetry F ₄ folds 2303-2310; S ₂ = 75° to c.o. @ 2302'; S ₂ = 80° to c.o. @ 2347; symmetry: 2325.5-M, 2327.5-S, 2331-S, 2346-S, 2351-M, 2358-S										
2361	2632	ICO	Quartz-feldspathic bio-musc-gas-staur schist & bio-musc-staur-and schist; med. brown, thickly banded, finely to med. porphyroblastic pelitic schists as in middle member of schist unit in 456-75-12; unit shows pronounced comp. banding and is often greenerish										

} Reverse S₂ = 2°

Diamond Drill Record

COLLAR:	HOLE SURVEY		
NORTH _____	FOOTAGE	AZIMUTH	DIP
EAST _____			
ELEVATION _____			
LOGGED BY _____			
DATE LOGGED _____			
MAP REFERENCE NO. _____	METHOD: _____		

COMPANY NAME _____
 PROPERTY NAME _____
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

HOLE NO. _____
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PROJECT NO. _____

FROM	TO	RECOVERY	DESCRIPTION	SAMPLE				ASSAYS														
				FROM	TO	WIDTH	NO.															
			<p><i>excellent preservation of F₄ kungis; symmetry: 2361-2363 pebb S₂, 2363.5-Z, 2365-S, 2365-2378 pebb S₂, 2378.5-2382-M, 2382.5-S, 2384-2386-M, 2386.5-S, 2387-2392 pebb S₂, 2392-S, 2392.5-S, 2393-2400 pebb S₂, 2401.5-S, 2402.5-S, 2404-S, 2406-2406.5-M, 2411-S, 2413-S, 2413.5-S, 2417.5-2419-S, 2419-2423 pebb S₂, 2423-S, 2423.5-Z, 2426.5-S, 2429-2432-M, 2433.5-S, 2435-S, 2437-S, 2438-2444 hoj. S₂; 2444.5-S, 2447-2449-M, 2449-S, 2449.5-2451-M, 2451.5-S, 2452.5-M, 2453-S, 2455-S, 2456-S, 2458-S, 2459-S, 2463-M, 2463.5-S, 2465-S, 2466-M, 2466.5-S, 2467-M, 2468-M, 2470.5-Z, 2472-S, 2473-S, 2478-S, 2480-S, 2481-S, 2487-S, 2491.5-M, 2494-2496-S, 2496-M, 2496.5-2497.5-Z, 2497.5-2501-M, 2502-2503-S, 2506-M, 2508-S, 2512-S, 2512-2520.5 pebb S₂, 2521-S, 2522-2527 pebb S₂, 2527.5-S, 2528-S, 2531-2533-M, 2533-2539.5 pebb S₂, 2539.5-M, 2541.5-2542.5-S, 2544-S, 2547-S, 2548-S, 2548.5-2549.5-M, 2550.5-S, 2551-S, 2551.5-2552.5-M, 2553-2562 pebb S₂, 2563-S, 2565-S, 2565.5-2569.5 pebb S₂, 2570-M, 2572.5-S, 2576-M, 2582-S, 2583.5-S, 2597-2598-M, 2598-2599-S, 2600.5-M, 2602-S, 2604-2606-S, 2607-2609-M, 2609-2617-S, 2622-2624-S; note prevalence of S symmetry over interval; S₂ = 70° to ca. @ 2400', S₂ = 80° to ca. @ 2446', S₂ = 75° to ca. @ 2503', S₂ = 75° to ca. @ 2550', S₂ = 88° to ca. @ 2603'; S₂ = 80° to ca. @ 2631.5'; 3" band w/ 10-15% pebb 2388.5' showing M symmetry F₄ kungis; 0.1" up stringer @ 40° to ca (SE) @ 2395; massive white bull gts pebb 2585-2591.5'</i></p>																			
3" po																						
0.1" up																						
40° to ca.																						
Bull gts																						

Reverse all Symmetries

456-75-13 Symmetry Summary (to SE)
Reverse to get NW

31 - Z	637-639 perv. S ₂	926.5 - M	1133.5 - S
33 - Z	639 - Z	929 - M	1136.5 - Z
33.5 - M	640-648 - perv. S ₂	929.5 - S	1137-1153 - perv. S ₂
34.5 - S	648-653 - M	933 - M	1154 F ₂ 11 S ₂ dip
35 - S	653-685 - perv. S ₂	933.5 - S	1156.5 " " " "
42 - S	685 F ₂ 11 S ₂ dip	933.75 - Z	1162.5 " " " "
48.5 - M	685-697 - perv. S ₂	933.8 - M	1163-1180 - perv. S ₂
52.5 - M	697 F ₂ 11 S ₂ dip	933.9 - S	1180.5 - S
55 - Z	697-711 - perv. S ₂	934.5 - M	1191-1208 perv. S ₂
60 - M	711 F ₂ 11 S ₂ dip	936.75 - M	1208.5 - Z
61 - S	711-735 - perv. S ₂	938.25 - S	1223.5 - S
65.5 - S	735 - S	940.5 - M	1232 - Z
66.5 - S	737.5 - S	942 - S	1232-1258 perv. S ₂
69 - S	737.5-759 - perv. S ₂	942-950 perv. S ₂	1258.5 - Z
75.5 - M	759 - S	950 - Z	1259-1283 perv. S ₂
94.5 - 97 - M	759-799 - perv. S ₂	956 - M	1283.5 F ₂ 11 S ₂ dip
100 - Z	799 - S	964 - Z	1293 - S
102.5 - 105 - Z	799-870 - perv. S ₂	967.5 - M	1309 - Z
109 - 110.5 - M	870 - M	968.5 - Z	1313 - Z
111.5 - 114.5 M	870-893.5 perv. S ₂	968-994 perv. S ₂	1314.5 - S
112 - M	893.5 F ₂ 11 S ₂ dip	994 - Z	1315.5 - S
123 - Z	893.5-901 perv. S ₂	1003 - S	1335' 11 S ₂ dip
127-128 - M	901 - Z	1015 - M	1335-1378 perv. S ₂
129.5 Z	901.2 - M	1020.75 - Z	1378.5 - S
130 - M	903 - M	1026.5 - M	1379-1455 perv. S ₂
136.5 - M	903.5 - Z	1027-1065 - perv. S ₂	1455 - Z
138.5 - M	909.5 F ₂ 11 S ₂ dip	1065 - S	1455-1490 perv. S ₂
145.5 - S	913 - M	1077 - Z	1491 - M
149 11 S ₂ dip	914.5 - S	1084.5 - Z	1499.5 - S
153.5 - M	914.75 - S	1089 - S	1500-1632 perv. S ₂
157 - Z	915 - M	1099.5 - Z	see log for
158.5 - M	918 - S	1115.5 - Z	1632-2032
159 - Z *	919.5 - M	1126.5 - S	
		1155-1183	

* detailed analysis given up @ 160' as too time consuming; 140-637 shows extremely complex lithon structure w/ v. few zones of pervasiv S₂; 160-637 suspected to show gross M symmetry