



PROJECT NO. 8.1631801		ID. R-2911A		COUNTY Iredell		GEOLOGIST H. Hodgman/G. Licayan							
SITE DESCRIPTION Dual Bridges on -L- (US 70) Over -Y5A-, -Y5-, and -Y5B- (NSRR)							GROUND WATER (m)						
BORING NO. B1-A LT		BORING LOCATION 39+49.9		OFFSET 13.0m LT		ALIGNMENT -L-		0 HR. 6.10					
COLLAR ELEV. 257.34 m		NORTHING 223645.53		EASTING 447318.65		24 HR. 7.33							
TOTAL DEPTH 24.81 m		DRILL MACHINE Mobile B-57		DRILL METHOD Wash Rotary/HQ Core		HAMMER TYPE 63.5 kg Manual							
DATE STARTED 11/25/02		COMPLETED 12/3/02		SURFACE WATER DEPTH NA									
ELEV. (m)	DEPTH (m)	BLOW COUNT			BLOWS PER 30 CM					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	
		15cm	15cm	15cm	0	20	40	60	80	100			
238.34		Continued from previous page											
	35	65/8											
			<p>237.54 19.80</p> <p>CRYSTALLINE ROCK: Brown, White, and Black, Moderately Weathered, Medium Hard Biotite Gneiss with Close to Moderately Close Fracture Spacing</p> <p>236.57 20.77</p> <p>CRYSTALLINE ROCK: White and Black, Slightly to Very Slightly Weathered, Moderately Hard to Hard Biotite Gneiss with Close to Moderately Close Fracture Spacing</p> <p>RS-1</p> <p>232.53 24.81</p> <p>Coring Terminated at Elevation 232.53m in Crystalline Rock: Biotite Gneiss</p>										
Avg. drilling fluid density=±1.04 grams per cu cm Tap water alone used as drilling fluid													

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DATE STARTED 11/25/02		COMPLETED 12/3/02		SURFACE WATER DEPTH NA						
CORE SIZE HQ		TOTAL RUN 8.02 m		DRILLER R. Toothman						
ELEV. (m)	DEPTH (m)	RUN (m)	DRILL RATE (Min/0.3m)	REC. (%)	RQD (%)	SAMP. NO.	STRATA REC. (%)	RQD (%)	LOG	DESCRIPTION AND REMARKS
										Begin Coring @ 16.51 m
240.83	16.51	0.70	0:45/0.1	(100%)	(NA)		(52%)	(NA)		240.83 WEATHERED ROCK: White, Brown, and Black; Severely Weathered; Very Soft Biotite Gneiss with Very Close Fracture Spacing 16.51
240.13	17.21		2:15				(0.70)			
240.08	17.26	1.47	N=50/5 1:20/0.25	(55%)	(NA)					239.44 WEATHERED ROCK: Brown, White, and Black; Severely Weathered; Soft Biotite Gneiss with Close Fracture Spacing 17.90
			1:15				(87%)	(NA)		
238.61	18.73		2:10							Near vertical fracture 17.98m to 18.51m 1 jt @ 50° 1 jt @ 30°
			2:35							
			1:20							
238.38	18.96	1.29	N=100/23 0:40/0.07	(85%)	(35%)					237.54 Remaining jts @ 10° to 20° 19.80
			1:05							
			1:10							
237.09	20.25		1:30				(100%)	(100%)		236.57 CRYSTALLINE ROCK: Brown, White, and Black; Moderately Weathered; Medium Hard Biotite Gneiss with Close to Moderately Close Fracture Spacing 20.77
		1.52	2:05	(100%)	(79%)					
			2:30							
			2:30	(152)	(1.20)					
			2:20							
235.57	21.77		1:45			RS-1	(91%)	(82%)		235.57 CRYSTALLINE ROCK: White and Black, Slightly to Very Slightly Weathered, Moderately Hard to Hard Biotite Gneiss with Close to Moderately Close Fracture Spacing 20.77
		1.52	1:45	(84%)	(84%)		3.69	3.31		
			2:00							1 jt @ 45° at 21.13m 1 jt @ 80° from 21.18m to 21.41m Remaining jts @ 10° to 20°
			2:35							Very broken (very close fracture spacing) 21.64m to 21.77m
234.05	23.29		2:40							Core loss in severely weathered biotite gneiss from 22.89m to 23.14m and 23.51m to 23.61m
		1.52	2:15	(93%)	(89%)					
			2:00							
			2:45	(1.42)	(1.36)					
			2:45							
232.53	24.81		2:30							232.53 Coring Terminated at Elevation 232.53m in Crystalline Rock: Biotite Gneiss 24.81

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