

DRILLING RECORD

AREA: LOWER PIEMAN INVESTIGATION		CO-ORDINATES:	E:	N:	HOLE No.
LOCATION: DELVILLE SADDLE		ON LINE: SPARK PLUG - W 271	BEARING: 0°00'	AT CH.	6390
GEOLOGICAL PLAN: SURVEY PLAN:		AT STN: S.P.	BEARING: 248°22'	DIST: 174	FILE No.
DATES (a) DRILLED: 5-5-63 (b) WATER TABLE: 20-10-63		SURFACE	COLLAR	WATER TABLE	
METHOD: Percussion & D.D. DIAMETER: 6", Nm, Bm.		328			SHEET
SITE REMARKS: Contract Number D.S. 103		HOLE DRILLED	ANGLE FROM HORIZONTAL	DIRECTION	
		VERT./HOR./H ₂ O	90°		
					1 OF 4 SHEETS

DEPTH	CORE DRAWN	CORE LENGTH	CASING	RECOVERY	GRAPHIC LOG	JOINTS No. Per Foot.	FLUID RETURN	GROUND WATER	WATER PRESSURE TESTS LEAKAGE	REMARKS
				20 40 60 80 100						
0'					Soil					0'0" - 118'0" Percussion drill used. Jar and chip samples taken.
5'					✓					Soft weathered basalt with patches of clay. Driller reports basalt boulders up to 6" long.
10'					✓					
15'					✓					92' - 118' Basalt fresher and harder to drill.
20'					✓					
25'					✓					
30'					✓					
35'					✓					
40'					✓					
45'					✓					
50'					✓					
55'					✓					
60'					✓					
65'					✓					
70'					✓					
75'					✓					
80'					✓					
85'					✓					
90'					✓					
95'					✓					
100'					✓					

N

PERCUSSION DRILL

PERCUSSION DRILL

DRILLING RECORD

AREA: LOWER PIEMAN INVESTIGATION		CO-ORDINATES:		E:	N:	HOLE No.
LOCATION: DELVILLE SADDLE		ON LINE:		BEARING:	AT CH:	6390
GEOLOGICAL PLAN: 5-5-63 SURVEY PLAN: 20-10-63		AT STN:		BEARING:	DIST:	
DATES (a) DRILL-LED:		(b) WATER TABLE:		LEVEL:		FILE No.
				SURFACE		
METHOD: Percussion & D.D DIAMETER: 6" Nm Bm.				328		SHEET 2 OF 4 SHEETS
SITE REMARKS: Contract Number D.S. 103.		INCL.:		HOLE DRILLED	ANGLE FROM HORIZONTAL	
				VERT./HOR./INC.		

DEPTH	CORE DRAWN	CORE LENGTH	CASING	RECOVERY	GRAPHIC LOG	JOINTS No. Per Foot.	FLUID RETURN	GROUND WATER	WATER PRESSURE TESTS LEAKAGE	REMARKS
100'					✓					118'-300' Diamond Drill used.
105'					✓					118'0" - 120'0" Core shows fresh grey basalt with weathered joints spaced 3"-6" apart.
110'					✓					120'0" - 153'0" No Core. Driller reports: Brown Sandy Clay - small pebbles, too soft to core
115'					✓					washing away in drilling sludge from 153' shows medium sand made up mainly of sub-rounded quartz grains.
120'					...		Grey			
125'					...					
130'					...					153'0" - 158'6" Soft grey mudstone - argillite (-ve reaction with acid) some variable jointing (possibly cleavage in part). Appears to be a block or blocks of
135'					...					older rock in the sub-basaltic sediments. At 158'6" lost water.
140'					...					
145'					...		Brown			158'6" - 166'0" No core. Driller reports brown sandy clay, too soft to core. Sludge of grey silt which could have been derived from the grinding of grey argillite.
150'					...					
155'					[Hatched Pattern]		Grey			166'0" - 192'0" Core shows soft light grey mudstone - argillite with darker phases,
160'					...					some variable jointing (possibly cleavage in part); appears to be
165'					...					a block or blocks of older rock in the sub-basaltic sediments.
170'					[Hatched Pattern]		Grey			Driller reports soft shaly clay seams.
175'					...					
180'					...					192'0" - 246'6" No Core. Driller reports grey shaly clay with small pebbles, too soft to core, washing away in drilling.
185'					...					
190'					...					
195'					...					
200'					...					

N

B

DRILLING RECORD

AREA: LOWER PIEMAN INVESTIGATION.		POSITION	CO-ORDINATES:	E:	N:	HOLE No. 6390
LOCATION: DELVILLE SADDLE.			ON LINE:	BEARING:	AT CH:	
GEOLOGICAL PLAN: SURVEY PLAN:			AT STN:	BEARING:	DIST:	FILE No.
DATES (a) DRILLED: 5-5-63 20-10-63 (b) WATER TABLE:		LEVEL	SURFACE	COLLAR	WATER TABLE	SHEET 3 OF 4 SHEETS
METHOD: Percussion & D.D. DIAMETER: 6" Nm, 8m.				328		
SITE REMARKS: Contract Number D.S. 103.		INCL.	HOLE DRILLED	ANGLE FROM HORIZONTAL	DIRECTION	
			VERT/HOR/INC.	90°		

DEPTH	CORE DRAWN	CORE LENGTH	CASING	RECOVERY %	GRAPHIC LOG	JOINTS No Per Foot.	FLUID RETURN	GROUND WATER	WATER PRESSURE TESTS LEAKAGE	REMARKS
200'										
205'										
210'										
215'										
220'										
225'										
230'										
235'										
240'										
245'										
250'										
255'										
260'										
265'										
270'										
275'										
280'										
285'										
290'										
295'										
300'										

B

Dark Grey

192' - 246'6" see sheet 2.

196' - 242' Sludge shows fine grey silt which could have been derived by grinding of the grey argillite, a few rounded quartz sand grains also present.

246'6" - 247'5" Hard grey banded argillite with quartzite phases (-ve reaction with acid.)

247'3" - 256'0" No core, Driller reports grey shaley clay with small pebbles too soft to core.

Sludge shows grey silt similar to interval 196' - 242'
256'0" - 256'6" Hard grey argillite and quartzite.

256'6" - 302'6" No core, Driller reports:-
256'6" - 262'0" soft shaley clay with small pebbles.
Sludge shows grey silt as above.
262'0" - 281'0". Soft sandy clay with small pebbles.

281'0" - 302'6" Gravel and Coarse blue sand.

Hole caving.

