

# DRILLING RECORD

<b>AREA: MERSEY FORTH POWER DEVELOPMENT</b>		CO-ORDINATES:	E:	N:	HOLE No.
<b>LOCATION: WILMOT TUNNEL LINE</b>		ON LINE: <b>WT 14</b> <b>DH 4572</b>	BEARING: <b>0°00'</b>	AT CH:	<b>4574</b>
GEOLOGICAL PLAN: <b>A10887</b> SURVEY PLAN: <b>A10067</b> .		AT STN: <b>WT 14</b>	BEARING: <b>183°41'</b>	DIST: <b>24'</b>	FILE No.
DATES (a) DRILLED: <i>Sept. Oct. 65.</i> (b) WATER TABLE:		SURFACE	COLLAR	WATER TABLE	SHEET No.
METHOD: <b>D.D.</b> DIAMETER: <i>No. 4, NMLC, BX</i>		<b>1716</b>	<b>1716</b>		SHEET <b>1</b> OF <b>4</b> SHEETS
SITE REMARKS: <i>Bell Valley at Peg M. 87.</i>		HOLE DRILLED	ANGLE FROM HORIZONTAL	DIRECTION	
		VERT./HOR./INC.	<b>90°</b>		

DEPTH	CORE DRAWN	CORE LENGTH	CASING	RECOVERY %	GRAPHIC LOG	JOINTS No. Per Foot.	FLUID RETURN	GROUND WATER	WATER PRESSURE TESTS LEAKAGE	REMARKS
0										
5										} 0'-28'6" Basaltic pebbles, sand and clay
10										
15										
20										
25										
30										
35										
40										
45										
50										
55										} 28'6"-87' Basaltic breccia - fresh pebbles and cobbles of basalt to 12" diameter in an open weathered matrix. Sparcely jointed broken by drilling at pebble and cobble boundaries.
60										
65										
70										
75										
80										
85										
90										
95										
100										

Pebbles to 1"

Lengths to 18" BX.

Lengths to 2'

Lengths to 14"

CAVED.

Brown

Nil

Conglomerate Cobble greyish

Limestone Cobble.

} 87' - 93' Indurated black carbonaceous silty clay.

} 93' - 96' Indurated interbedded black silt and carbonaceous clay; dip 25°.

} 96' - 97' Conglomerate or greyish cobble.

} 97' - 98' Light greenish-grey silt.

} 98' - 101' Light grey silt with limestone cobble.

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DATES (a) DRILLED: <b>Sept. Oct. 65</b> (b) WATER TABLE:	METHOD: <b>D.D</b> DIAMETER: <b>No. 4, NMLC, BX</b>	LEVEL: SURFACE: <b>1716</b> COLLAR: <b>1716</b> WATER TABLE:			
SITE REMARKS: <b>Ball Valley at Peg M 87</b>		INCL. HOLE DRILLED: <b>1716</b> ANGLE FROM HORIZONTAL: <b>90°</b> DIRECTION:			

DEPTH	CORE DRAWN	CORE LENGTH	CASING	RECOVERY	GRAPHIC LOG	JOINTS	FLUID RETURN	GROUND WATER	WATER PRESSURE TESTS	REMARKS
				20 40 60 80 100		No. Per Foot.			LEAKAGE	
100										
105										
110										101'-125' Black carbonaceous clay containing bands of dark grey fine-grained sand (1") and medium grey silt together with pebbles, cobbles and boulders of quartzite and limestone. Dip up to 40°.
115										
120										
125										
130										
135										135'-135'6" Dark grey clay.
140										
145										
150										
155										
160										
165										125'-202' Black impure fine-grained limestone containing numerous irregular siltstone banks up to 1" thick (dip 30°) and abundant irregular calcite veins. Sparcey jointed; some slickensides along vein faces with dark green stain on some faces. Core broken irregularly along calcite veins.
170										
175										
180										
185										
190										
195										
200										

101'-125' Black carbonaceous clay containing bands of dark grey fine-grained sand (1") and medium grey silt together with pebbles, cobbles and boulders of quartzite and limestone. Dip up to 40°.

Boxes: 80'-125' by Dept Mining SA  
 Co. L.R. 12-7-66.

135'-135'6" Dark grey clay.

125'-202' Black impure fine-grained limestone containing numerous irregular siltstone banks up to 1" thick (dip 30°) and abundant irregular calcite veins. Sparcey jointed; some slickensides along vein faces with dark green stain on some faces. Core broken irregularly along calcite veins.

Dip 0°-25°.

3" - 12"  
3" - 18" BX

MADE

1" Calcite Vain  
0.5

Grey

Grey

3" Calcite  
6" Calcite  
1" Calcite  
15

3" Calcite  
Slickensides

1" Calcite  
0.5

Grey

# DRILLING RECORD

AREA: <b>MERSET - FORTH POWER DEVELOPMENT</b>		CO-ORDINATES:	E:	N:	HOLE No.
LOCATION: <b>WILMOT TUNNEL LINE.</b>		ON LINE: <b>WT 14</b>	BEARING: <b>0° 00'</b>	AT CH:	<b>4574</b>
GEOLOGICAL PLAN: <b>A10887</b> SURVEY PLAN: <b>A10067</b>		AT STN: <b>WT 14</b>	BEARING: <b>183° 41'</b>	DIST: <b>24'</b>	FILE No.
DATES (a) DRILLED: <b>Sept. Oct. 65.</b> (b) WATER TABLE:		SURFACE	COLLAR	WATER TABLE	
METHOD: <b>DD</b> DIAMETER: <b>N<sub>04</sub>, NMLC, 8X</b>		<b>1716</b>	<b>1716</b>		
SITE REMARKS: <b>Bell Valley at Peg M87.</b>		HOLE DRILLED	ANGLE FROM HORIZONTAL	DIRECTION	
		VERT. / HOR. / INC.	<b>90°</b>		
					SHEET <b>3</b> OF <b>4</b> SHEETS

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'						2				<p>Dark grey impure fine-grained limestone showing numerous small (1mm) nodules of calcite and shearing at 45°-50°. Moderately jointed; thin 1/16" Calcite veining.</p> <p>202'-226'</p>
215'										
220'										
225'										
230'										
235'										
240'										
245'										
250'										
255'										
260'										<p>Medium to dark grey, medium hard calcareous sandstone grading to a sandy limestone. Moderately jointed, some pyrite with numerous calcite veins.</p> <p>226'-327'</p> <p>Considered to be a sandy phase of Gordon Limestone.</p>
265'										
270'						3				
275'										
280'										
285'										
290'										
295'										
300'										
305'										

4" - 18"

Up to 18" 3X.

8" + Broken pieces

CAVED

Grey

Grey

1" Calcite vein  
3" Calcite

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AREA: <b>MERSEY-FORTH POWER DEVELOPMENT</b>		CO-ORDINATES:	E:	N:	HOLE No.
LOCATION: <b>WILMOT TUNNEL LINE</b>		ON LINE: <b>WT 14 DH 4572</b>	BEARING: <b>0° 00'</b>	AT CH.	<b>4574</b>
GEOLOGICAL PLAN: <b>A10067</b> SURVEY PLAN: <b>A10067</b>		AT STN: <b>WT 14</b>	BEARING: <b>183° 41'</b>	DIST: <b>24'</b>	FILE No.
DATES (a) DRILLED: <b>Sept-Oct 65</b> (b) WATER TABLE:		SURFACE	COLLAR	WATER TABLE	
METHOD: <b>D.D.</b> DIAMETER: <b>No. 4, NMLC, BX</b>		<b>1715</b>	<b>1716</b>		
SITE REMARKS: <b>BELL VADLEY at Pag M 87.</b>		HOLE DRILLED	ANGLE FROM HORIZONTAL	DIRECTION	
		VERT: <del>HOR</del>	<b>90°</b>		

DEPTH	CORE DRAWN	CORE LENGTH	CASING	RECOVERY	GRAPHIC LOG	JOINTS No Per Foot.	FLUID RETURN	GROUND WATER	WATER PRESSURE TESTS LEAKAGE	REMARKS
300'										
305'										
310'					<i>Slickensides</i>	1				
315'										
320'										
325'										
330'						1				
335'						3				327'-341' Light grey impure granular limestone.
340'										
345'					<i>1" Calcite</i>					
350'										
355'										
360'					<i>1/4" Calcite</i>	2				327'-388' Dark grey, impure, fine-grained limestone; moderately jointed; fine calcite veining.
365'										
370'					<i>1/4" Calcite</i>					
375'										
380'										
385'										
390'										
395'										
400'										

No water test carried out.

Hole Completed 388'  
 Logged by:  
 S. J. Paterson  
 8. 11. 65.