

GV = 82  
 MAP = 83122  
 E 520 800  
 N 5267 210  
 ACC 2  
 2 = ROTARY

REF No 18725

borehole no:  
**P3**  
 sheet 1 of 1

**engineering log -  
 borehole**

43 005

file:

**OLD BEACH ROAD**  
 project: **JORDAN RIVER BRIDGE**  
 borehole location: **(SEE PLAN) CH 1458.3 m 5.4 m Upstream**  
 hole commenced: **13-8-76**  
 hole completed: **13-8-76**  
 supervised by: **T. S.**  
 log checked by: **W.K.**

drill model and mounting: **MAYHEW 1000** slope: **Vert** deg. - R.L. surface: **0.00** m  
 hole diameter: **150** mm bearing: - deg. - datum: **State** operator: **Hassel**

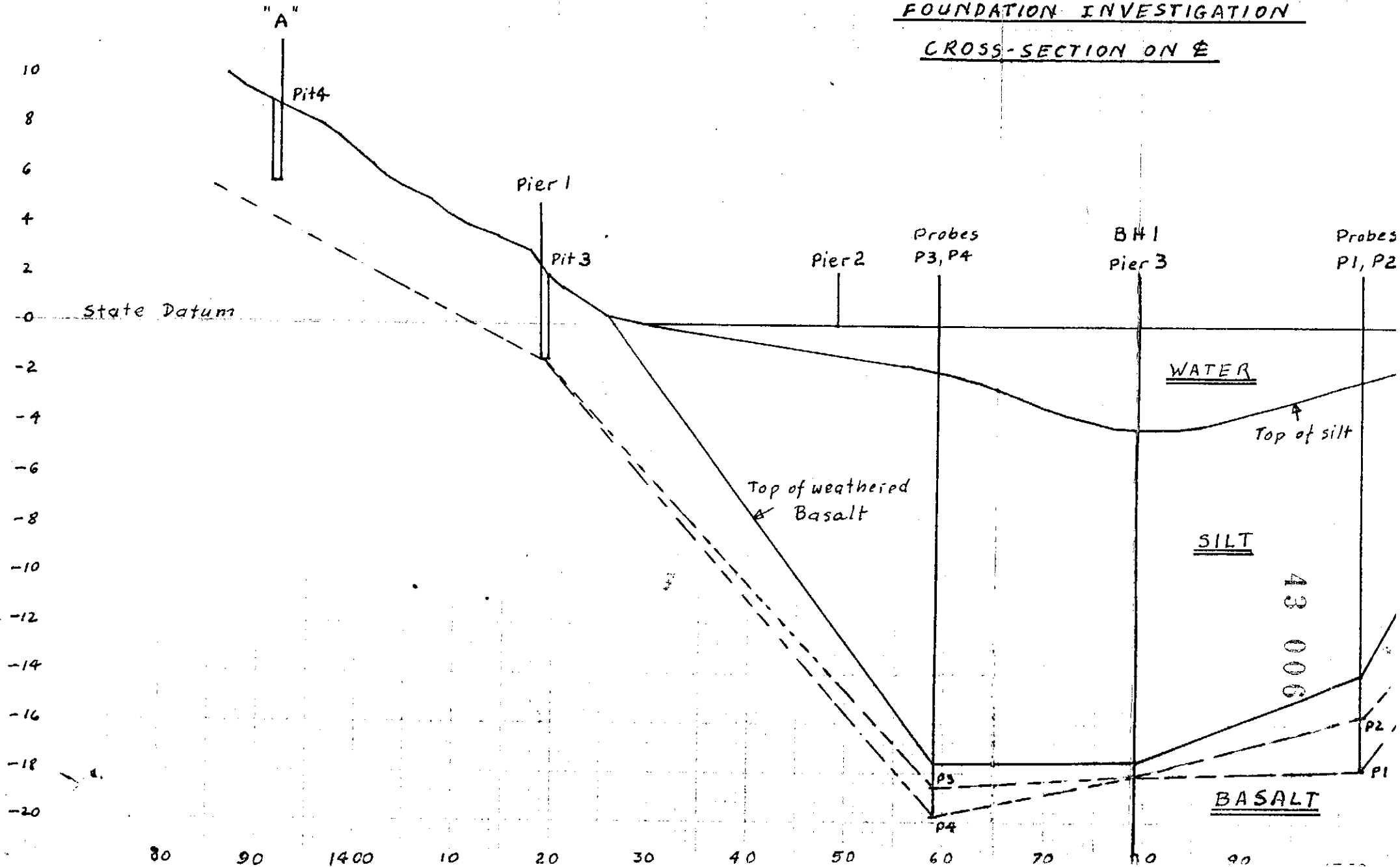
method	penetration	support	water	notes samples, tests, etc.	R.L. depth metres	graphic log	classification symbol	material soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency, rel. density	100 hand 200 kPa penetro- 500 400 meter	structure and additional observations
123					0							
					-1.90			<b>WATER</b>				
					-2							
					-4			<b>Black clayey silt</b>				
					-6							
					-12							
					-14			<b>Black clayey silt</b>				
					-16							
					-17.59							
					-18	VV		<b>Weathered Basalt</b>				<b>Inferred END</b>
					-18.53	VV						
					-20	V		<b>Fresh Basalt</b>				<b>Inferred</b>

<b>key</b> <b>method</b> AS auger screwing* AD auger drilling* R roller/tricone W washbore CT cable tool * bit shown by suffix: B - blank bit V - "V" bit T - TC bit	<b>support</b> C casing M mud <b>penetration</b> 123 no resistance ranging to refusal water level 10 Oct, 73 water level on date shown	<b>notes</b> - samples and tests US0 - undisturbed sample 50 mm diameter D - disturbed sample N - standard penetration test: figure = result N* - SPT + sample Nc - cone penetrometer	<b>classification symbols          and soil description</b> based on unified classification system <b>moisture</b> D - dry M - moist W - wet	<b>consistency/relative density</b> VS - very soft S - soft F - firm St - stiff VSt - very stiff H - hard Fb - friable VL - very loose L - loose MD - moderately dense D - dense
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OLD BEACH ROAD - JORDAN RIVER BRID

FOUNDATION INVESTIGATION

CROSS-SECTION ON E

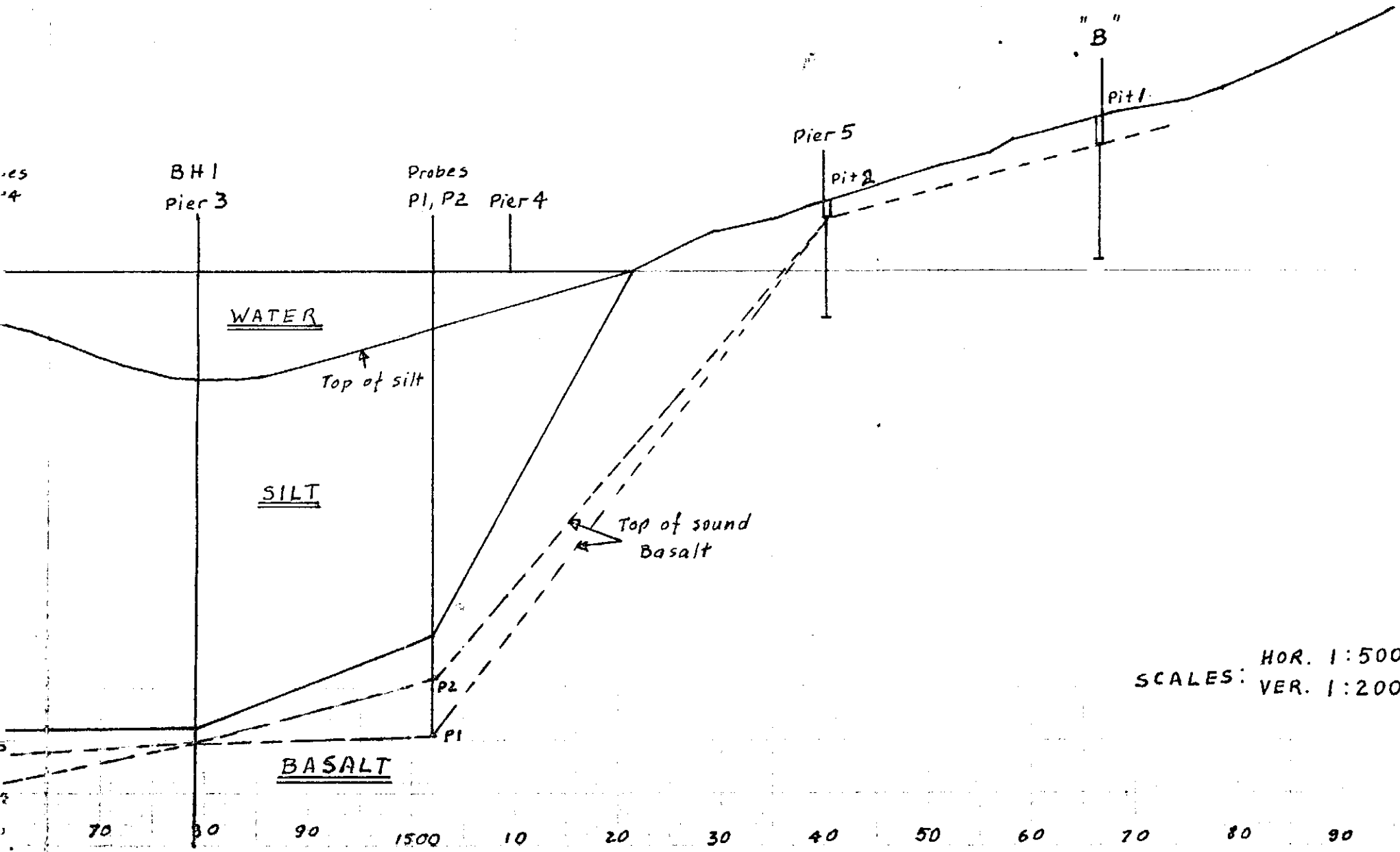


borehole no.

ACH ROAD - JORDAN RIVER BRIDGE

FOUNDATION INVESTIGATION

CROSS-SECTION ON E



SCALES: HOR. 1:500  
VER. 1:200

43 007  
0091

# engineering log - PIT 3 excavation

QU 82  
MAP 83122  
ACC 2

{ E 520880  
N 5267220

pit no: **3**  
sheet 1 of 1

43 008

6 EX

file:

project: **OLD BEACH ROAD**  
**JORDAN RIVER BRIDGE**  
 pit location: **PIER 1 CH1419 E**

equipment type and model: **Excavator JCB 807**  
 excavation dimensions: **3** m long, **1** m wide

pit commenced: **25-6-76**  
 pit completed: **25-6-76**  
 supervised by: **W. D.**  
 log checked by: **W. K.**

R.L. surface: **1.98** m  
 datum: **State** operator: **Stanton**

method	penetration	support	water	notes samples, tests, etc.	L. depth (metres)	graphic log	classification symbol	material soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency, rel. density	100 g hand penetrometer	structure and additional observations
123												
BH								Black Topsoil and sandy clay	W	S		
BH					1			Brown weathered Basalt gravel 25mm	D	MD		
BH					2			Brown to Black close jointed Basalt. Some clay in joints Clay content decreasing Stone size increasing with depth	D	D		stone size 25-150 mm  150 TO MASSIVE
					3			REFUSAL	D			END 3.4 m
					4							

<b>key</b> method N natural exposure E existing excavation BH backhoe bucket B bulldozer blade R ripper	<b>support</b> T timbering <b>penetration</b> 123 no resistance ranging to refusal  water 10 Oct, 73 water level on date shown  water inflow water outflow	<b>notes</b> - samples and tests U50 - undisturbed sample 50 mm diameter D - disturbed sample N - standard penetration test: figure = result N* - SPT + sample Nc - cone penetrometer	<b>classification symbols and soil description</b> based on unified classification system <b>moisture</b> D - dry M - moist W - wet	<b>consistency/relative density</b> VS - very soft S - soft F - firm St - stiff VSt - very stiff H - hard Fb - friable VL - very loose L - loose MD - moderately dense D - dense VD - very dense
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PITH { E 520 860  
N 5267240  
6: EX

pit no: 4  
sheet 1 of 1

# engineering log — excavation

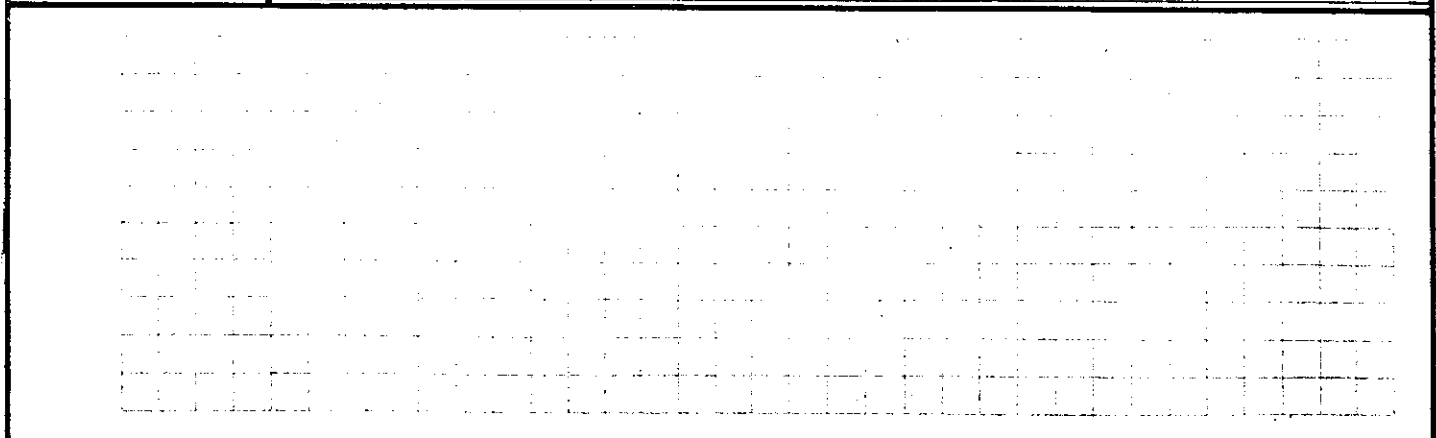
43 009

file:

project: **OLD BEACH ROAD**  
 project: **JORDAN RIVER BRIDGE**  
 pit location: **ABUTMENT "A" CH 1391 &**  
 pit commenced: **25-6-76**  
 pit completed: **25-6-76**  
 supervised by: **W.D.**  
 log checked by: **W.K.**

equipment type and model: **Excavator JCB 807**  
 excavation dimensions: **3** m long, **1** m wide  
 R.L. surface: **9.15** m  
 datum: **State** operator: **Stanton**

method	penetration support	water	notes samples, tests, etc.	L depth in metres	graphic log	classification symbol	material soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency, rel. density	100 mm hand penetrometer	structure and additional observations
							Black clayey topsoil	M	S		
BH				1			Brown weathered Basalt gravel. Fairly uniform, well graded from 25mm down.	D	H Fr		All greater than 500 kPa
				2				D	H Fr		
				3			'Same Material				END 3.5m
				4							



<b>key</b> <b>method</b> N natural exposure E existing excavation BH backhoe bucket B bulldozer blade R ripper	<b>support</b> T timbering <b>penetration</b> 123 no resistance ranging to refusal water level on date shown water inflow water outflow	<b>notes</b> — samples and tests U50 — undisturbed sample 50 mm diameter D — disturbed sample N — standard penetration test: figure = result N* — SPT + sample Nc — cone penetrometer	<b>classification symbols and soil description</b> based on unified classification system <b>moisture</b> D — dry M — moist W — wet	<b>consistency/relative density</b> VS — very soft S — soft F — firm St — stiff VSt — very stiff H — hard Fb — friable VL — very loose L — loose MD — moderately dense D — dense VD — very dense
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av = 82  
 MAD: 83122  
 ACC 2  
 E521000  
 N5267140

pit no: 1  
 sheet 1 of 1

# engineering log excavation

6 EX

file: 43 010

project: **OLD BEACH ROAD**  
**JORDAN RIVER BRIDGE**  
 pit location: **ABUTMENT "B" CH 1566 E**

pit commenced: 16-6-76  
 pit completed: 16-6-76  
 supervised by: W.D.  
 log checked by: W.K.

equipment type and model: **Back Hoe MF303**  
 excavation dimensions: **4.0 m long, 0.75 m wide**

R.L. surface: **6.00 m**  
 datum: **State** operator: **P.W.D.**

method	penetration	support	water	notes samples, tests, etc.	R-L depth metres	graphic log	classification symbol	material soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency, rel. density	hand penetro- meter	structure and additional observations
123												
BH								Brown topsoil and Brown friable clay				
BH					1			Brown-Black weathered Basalt with some clay				END BH 1.3m
Jackhammer/Probe					2			Jointed Basalt Alternating hard and weathered layers.				Dust black and brown. Variable penetration rate. Some jamming of drill steel. END 5.6m
					4							
					5							
					6			Water at the bottom				

<b>key</b> method N natural exposure E existing excavation BH backhoe bucket B bulldozer blade R ripper	<b>support</b> T timbering <b>penetration</b> 123 no resistance ranging to refusal water 10 Oct, 73 water level on date shown water inflow water outflow	<b>notes</b> - samples and tests U50 - undisturbed sample 50 mm diameter D - disturbed sample N - standard penetration test figure = result N* - SPT + sample Nc - cone penetrometer	<b>classification symbols                  and soil description</b> based on unified classification system <b>moisture</b> D - dry M - moist W - wet	<b>consistency/relative density</b> VS - very soft S - soft F - firm St - stiff VSt - very stiff H - hard Fb - friable VL - very loose L - loose MD - moderately dense D - dense VD - very dense
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