



# APPENDIX E

## Logs and Core Photographs



**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH5194 0.00 - 2.97 metres



Drillhole DDH5194 2.97 - 5.88 metres



**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH5194 5.88 – 8.89 metres



Drillhole DDH5194 8.89 – 11.82 metres



**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH5194 11.02 – 14.70 metres



Drillhole DDH5194 14.70 – 17.47 metres



**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH5194 17.47 – 20.36 metres



Drillhole DDH5194 20.36 – 23.32 metres



**APPENDIX E**  
Logs and photographs of drill core



*Drillhole DDH5194 23.32 – 26.80 metres*



*Drillhole DDH5194 26.80 – 29.70 metres*



**APPENDIX E**  
Logs and photographs of drill core



*Drillhole DDH5194 29.70 – 32.59 metres*



*Drillhole DDH5194 32.59 – 35.57 metres*



**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH5194 35.57 – 38.42 metres



Drillhole DDH5194 38.42 – 41.32 metres





**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH5194 41.32 – 44.34 metres



Drillhole DDH5194 44.34 – 47.15 metres



**APPENDIX E**  
Legs and photographs of drill core



*Drillhole DDH 5194 47.16 – 49.94 metres*



**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH5195 0.00 – 3.20 metres



Drillhole DDH5195 3.20 – 6.27 metres



**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH5195 6.27 – 9.32 metres



Drillhole DDH5195 9.32 – 12.43 metres



**APPENDIX E**  
Logs and photographs of drill core



*Drillhole DDH5195 12.43 – 15.31 metres*



*Drillhole DDH5195 15.31 – 18.17 metres*



**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH5195 18.17 – 21.07 metres



Drillhole DDH5195 21.07 – 24.03 metres



**APPENDIX E**  
Logs and photographs of drill core



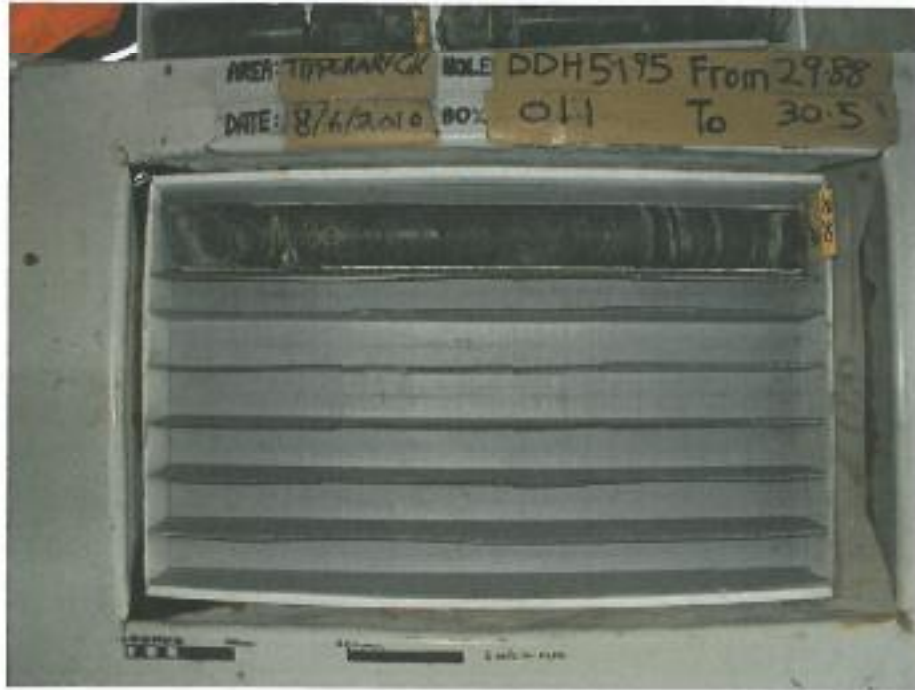
Drillhole DDH5194 24.03 – 26.97 metres



Drillhole DDH5195 26.97 – 29.89 metres



**APPENDIX E**  
Logs and photographs of drill core



*Drillhole DDH5195 29.88 – 30.50 metres*





**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH5196 0.00 – 2.90 metres



Drillhole DDH5196 2.90 – 5.86 metres



**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH5196 5.86 – 8.73 metres



Drillhole DDH5196 8.73 – 11.77 metres



**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH5196 11.77 – 14.86 metres



Drillhole DDH5196 14.86 – 17.81 metres



**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH5196 17.91 - 20.93 metres



Drillhole DDH5196 20.95 - 23.96 metres



**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH5196 23.96 – 26.87 metres



Drillhole DDH5196 26.87 – 29.78 metres



**APPENDIX E**  
Logs and photographs of drill core



*Drillhole DDH5196: 29.67 – 30.61 metres*



**APPENDIX E**  
Logs and photographs of drill core



*Drillhole DDH5197 0.00 – 3.16 metres*



*Drillhole DDH5197 3.16 – 6.13 metres*



**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH5197 6.13 – 9.27 metres



Drillhole DDH5197 9.27 – 13.50 metres





**APPENDIX E**  
Logs and photographs of drill core



*Drillhole DDH5197 13.5 – 17.01 metres*



*Drillhole DDH5197 17.01 – 19.62 metres*



**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH5197 19.82 – 22.63 metres



Drillhole DDH5197 22.63 – 25.75 metres



**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH5197 25.79 – 28.52 metres



Drillhole DDH5197 28.52 – 30.12 metres



**APPENDIX E**  
Legs and photographs of drill core



Drillhole DDH1598 0.00 – 2.83 metres



Drillhole DDH1598 2.83 – 5.84 metres



**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH1598 5.84 – 8.78 metres



Drillhole DDH1598 8.78 – 11.75 metres



**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH1598 11.75 – 14.58 metres



Drillhole DDH1598 14.58 – 17.50 metres



**APPENDIX E**  
Logs and photographs of drill core



*Drillhole DDH1598 17.5 – 20.60 metres*



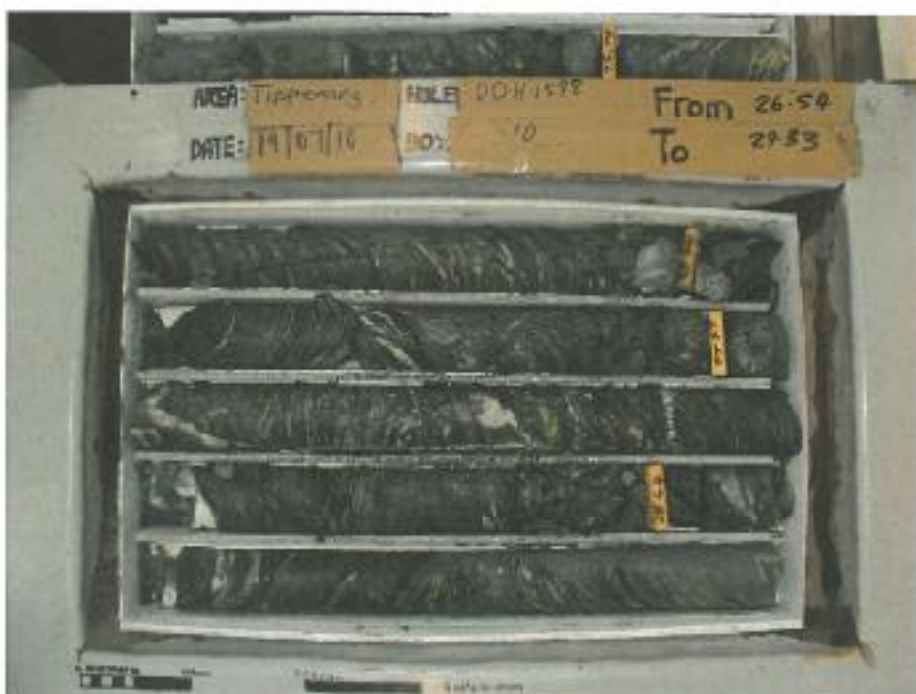
*Drillhole DDH1598 20.60 – 23.74 metres*



**APPENDIX E**  
Legs and photographs of drill core



*Drillhole DDH1598 23.74 – 26.54 metres*



*Drillhole DDH1598 26.54 – 29.33 metres*





**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH1598 29.33 – 30.82 metres



**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH1599 0.00 – 3.57 metres



Drillhole DDH1599 3.57 – 6.63 metres



**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH1599 6.63 – 9.28 metres



Drillhole DDH1599 9.20 – 12.30 metres



**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH1599 12.30 – 17.66 metres



Drillhole DDH1599 17.66 – 20.55 metres



**APPENDIX E**  
Logs and photographs of drill core



*Drillhole DDH1599 20.55 – 23.26 metres*



*Drillhole DDH1599 23.26 – 25.97 metres*



**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH1599 25.97 – 28.80 metres



Drillhole DDH1599 28.80 – 31.64 metres



**APPENDIX E**  
Logs and photographs of drill core



*Drillhole DDH1599 31.64 – 34.52 metres*



*Drillhole DDH1599 34.52 – 37.45 metres*



**APPENDIX E**  
Logs and photographs of drill core



*Drillhole DDH1599 37.45 – 40.33 metres*



*Drillhole DDH1599 40.33 – 43.12 metres*





**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH1599 43.12 – 46.02 metres



Drillhole DDH1599 46.02 – 48.95 metres



**APPENDIX E**  
Logs and photographs of drill core



*Drillhole DDH1579 48.95 – 50.13 metres*



**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH5200 0.00 – 3.14 metres



Drillhole DDH5200 3.14 – 7.09 metres



**APPENDIX E**  
Logs and photographs of drill core



*Drillhole DDH5200 7.09 – 10.10 metres*



*Drillhole DDH5200 10.10 – 13.08 metres*



**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH5200 13.08 – 16.05 metres



Drillhole DDH5200 16.05 – 20.25 metres



**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH5200 20.25 – 23.67 metres



Drillhole DDH5200 23.67 – 26.67 metres



**APPENDIX E**  
Logs and photographs of drill core



*Drillhole DDH5200 26.67 – 29.51 metres*



*Drillhole DDH5200 29.51 – 30.36 metres*



**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH5201 0.00 – 3.12 metres



Drillhole DDH5201 3.12 – 6.06 metres





**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH5201 6.06 – 8.90 metres



Drillhole DDH5201 8.90 – 11.82 metres



**APPENDIX E**  
Logs and photographs of drill core



*Drillhole DDH5201 11.82 – 14.70 metres*



*Drillhole DDH5201 14.70 – 17.70 metres*



**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH5201 17.70 – 20.53 metres



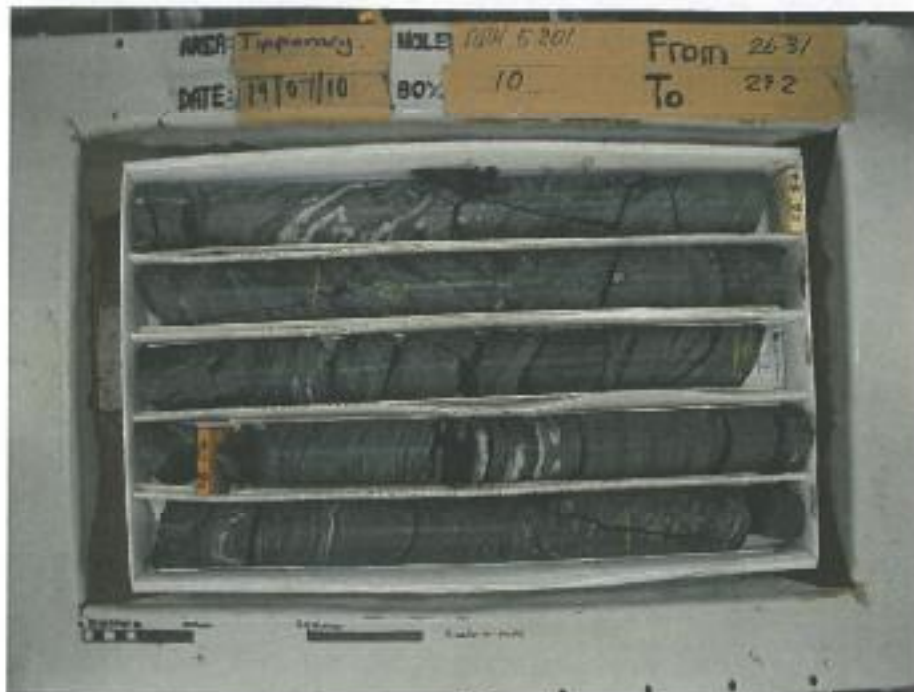
Drillhole DDH5201 20.53 – 23.42 metres



**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH5201 23.42 – 25.31 metres



Drillhole DDH5201 26.31 – 29.20 metres



**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH5201 29.20 – 31.95 metres



Drillhole DDH5201 31.95 – 34.99 metres



**APPENDIX E**  
Logs and photographs of drill core



*Drillhole DDH5201 34.90 – 37.79 metres*



*Drillhole DDH5201 37.79 – 40.79 metres*



**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH5201 40.79 – 43.78 metres



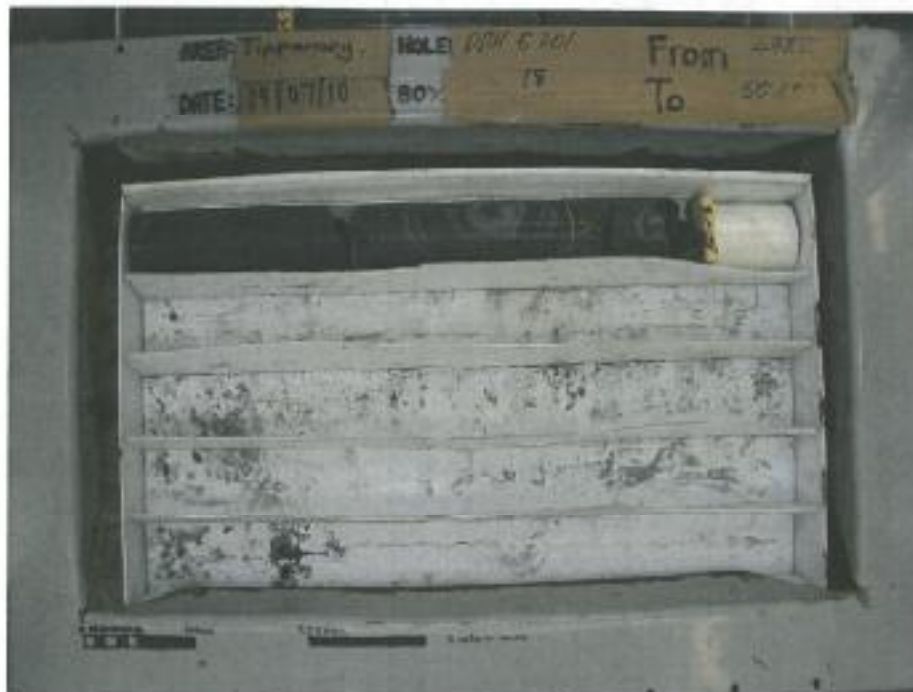
Drillhole DDH5201 43.78 – 45.64 metres



**APPENDIX E**  
Logs and photographs of drill core



Drillhole DDH5201 46.64 – 49.62 metres



Drillhole DDH5201 49.62 – 50.13 metres



DRILLING LOG		LOCATION:		HOLE No.		Drill Rig Type:	
McNEILL DRILLING CO. I.T.D.		Inclination: <i>Vertical</i>		<i>DPH 5199</i>		<i>MCAGSO</i>	
Driller: <i>P. Moore</i>		Rotary from to (m)		TIME: <i>6:30</i>		of	
Start Finish		TIME: <i>2:45</i>		SHIFT FINISH DATE: <i>1/6/80</i>		SHEET	
RUN LENGTH		DESCRIPTION: Hardness, material, colour		Water Pressure (kPa)		Water Flow (litre)	
INTERVAL		Hole Diameter		COMMENT'S Breakdowns etc			
From To							
1:00	1:30	0.0	0.95	Low AB	19.17	1.18	1.18
		0.95	1.70		19.38	1.09	1.09
		1.70	2.55		19.58	1.00	1.00
		2.55	3.40		19.78	0.91	0.91
		3.40	4.25		19.98	0.82	0.82
		4.25	5.10		20.18	0.73	0.73
		5.10	5.95		20.38	0.64	0.64
		5.95	6.80		20.58	0.55	0.55
		6.80	7.65		20.78	0.46	0.46
		7.65	8.50		20.98	0.37	0.37
		8.50	9.35		21.18	0.28	0.28
		9.35	10.20		21.38	0.19	0.19
		10.20	11.05		21.58	0.10	0.10
		11.05	11.90		21.78	0.01	0.01
		11.90	12.75		21.98	0.00	0.00
		12.75	13.60		22.18	0.00	0.00
13:00	13:15	13.60	14.45		22.38	0.00	0.00
INSTALLATIONS		SCREEN: from to		Comments		Comments	
		(m) Diameter:		(m) Diameter:		Comments	
TESTING (packer/pressure/flow rate)						see test sheets for data	



DRILLING LOG		Length of hole:		LOCATION:		HOLE No.		Drill Rig Type	
INSPECTOR	TIME	Start	Finish	From	To	Inclination:	to	to	Sheet
Driller: <i>M. Beane</i>		Run Length		Interval	Drilling Method	to	to	to	of
7:30	10:30								
		36.76	57.17		Cave HD's				
		57.17	98.65						
		98.65	140.98						
		140.98	180.16						
		180.16	211.10						
		211.10	281.64						
		281.64	321.95						
		321.95	381.14						
		381.14	431.14						
		431.14	481.14						
		481.14	531.14						
		531.14	581.14						
		581.14	631.14						
		631.14	681.14						
		681.14	731.14						
		731.14	781.14						
		781.14	831.14						
		831.14	881.14						
		881.14	931.14						
		931.14	981.14						
		981.14	1031.14						
		1031.14	1081.14						
		1081.14	1131.14						
		1131.14	1181.14						
		1181.14	1231.14						
		1231.14	1281.14						
		1281.14	1331.14						
		1331.14	1381.14						
		1381.14	1431.14						
		1431.14	1481.14						
		1481.14	1531.14						
		1531.14	1581.14						
		1581.14	1631.14						
		1631.14	1681.14						
		1681.14	1731.14						
		1731.14	1781.14						
		1781.14	1831.14						
		1831.14	1881.14						
		1881.14	1931.14						
		1931.14	1981.14						
		1981.14	2031.14						
		2031.14	2081.14						
		2081.14	2131.14						
		2131.14	2181.14						
		2181.14	2231.14						
		2231.14	2281.14						
		2281.14	2331.14						
		2331.14	2381.14						
		2381.14	2431.14						
		2431.14	2481.14						
		2481.14	2531.14						
		2531.14	2581.14						
		2581.14	2631.14						
		2631.14	2681.14						
		2681.14	2731.14						
		2731.14	2781.14						
		2781.14	2831.14						
		2831.14	2881.14						
		2881.14	2931.14						
		2931.14	2981.14						
		2981.14	3031.14						
		3031.14	3081.14						
		3081.14	3131.14						
		3131.14	3181.14						
		3181.14	3231.14						
		3231.14	3281.14						
		3281.14	3331.14						
		3331.14	3381.14						
		3381.14	3431.14						
		3431.14	3481.14						
		3481.14	3531.14						
		3531.14	3581.14						
		3581.14	3631.14						
		3631.14	3681.14						
		3681.14	3731.14						
		3731.14	3781.14						
		3781.14	3831.14						
		3831.14	3881.14						
		3881.14	3931.14						
		3931.14	3981.14						
		3981.14	4031.14						
		4031.14	4081.14						
		4081.14	4131.14						
		4131.14	4181.14						
		4181.14	4231.14						
		4231.14	4281.14						
		4281.14	4331.14						
		4331.14	4381.14						
		4381.14	4431.14						
		4431.14	4481.14						
		4481.14	4531.14						
		4531.14	4581.14						
		4581.14	4631.14						
		4631.14	4681.14						
		4681.14	4731.14						
		4731.14	4781.14						
		4781.14	4831.14						
		4831.14	4881.14						
		4881.14	4931.14						
		4931.14	4981.14						
		4981.14	5031.14						
		5031.14	5081.14						
		5081.14	5131.14						
		5131.14	5181.14						
		5181.14	5231.14						
		5231.14	5281.14						
		5281.14	5331.14						
		5331.14	5381.14						
		5381.14	5431.14						
		5431.14	5481.14						
		5481.14	5531.14						
		5531.14	5581.14						
		5581.14	5631.14						
		5631.14	5681.14						
		5681.14	5731.14						
		5731.14	5781.14						
		5781.14	5831.14						
		5831.14	5881.14						
		5881.14	5931.14						
		5931.14	5981.14						
		5981.14	6031.14						
		6031.14	6081.14						
		6081.14	6131.14						
		6131.14	6181.14						
		6181.14	6231.14						
		6231.14	6281.14						
		6281.14	6331.14						
		6331.14	6381.14						
		6381.14	6431.14						
		6431.14	6481.14						
		6481.14	6531.14						
		6531.14	6581.14						
		6581.14	6631.14						
		6631.14	6681.14						
		6681.14	6731.14						
		6731.14	6781.14						
		6781.14	6831.14						
		6831.14	6881.14						
		6881.14	6931.14						
		6931.14	6981.14						
		6981.14	7031.14						
		7031.14	7081.14						
		7081.14	7131.14						
		7131.14	7181.14						
		7181.14	7231.14						
		7231.14	7281.14						
		7281.14	7331.14						
		7331.14	7381.14						
		7381.14	7431.14						
		7431.14	7481.14						
		7481.14	7531.14						
		7531.14	7581.14						
		7581.14	7631.14						
		7631.14	7681.14						
		7681.14	7731.14						
		7731.14	7781.14						
		7781.14	7831.14						
		7831.14	7881.14						
		7881.14	7931.14						
		7931.14	7981.14						
		7981.14	8031.14						
		8031.14	8081.14						
		8081.14	8131.14						
		8131.14	8181.14						
		8181.14	8231.14						
		8231.14	8281.14						



DRILLING LOG		LOCATION:		HOLE No.		Drill Rig Type:	
INSPECTOR: <i>V. H. H. H.</i>		McNeill Drilling Co. Ltd		DMS200		WMS20	
DRILLER: <i>V. H. H. H.</i>		Crescor Gold Tapping Co					
TIME		Inclination: 1		Sheet		of	
Start Finish		TYPE: Open hole		HOLE No.			
RUN		SHIFT START DATE: 25/6/10		TIME: 1:00		SHIFT FINISH DATE: 25/6/10	
LENGTH		DESCRIPTION: Hardness, material, colour:		Water Pressure (kg)		Water Flow (lit/min)	
INTERVAL		From To		Interval		Interval	
From To		Drilling Method		Hole Diameter		Comments: Breakdowns etc	
6:54	7:41	Core/B3	10/12.077	Normal	Normal	0.67	0.85
7:41	8:31	Normal					0.85
8:31	9:28	Normal	HWT 0.3:1				0.85
9:28	10:34		dry 1/2 inch fine sand				0.85
10:34	11:31		dry 1/2 inch fine sand				1.07
11:31	12:00	Normal	dry 1/2 inch fine sand				1.07
12:00	12:50	Normal	dry 1/2 inch fine sand				1.07
12:50	13:47		dry 1/2 inch fine sand				1.07
13:47	14:44		dry 1/2 inch fine sand				1.07
14:44	15:41		dry 1/2 inch fine sand				1.07
15:41	16:38		dry 1/2 inch fine sand				1.07
16:38	17:35		dry 1/2 inch fine sand				1.07
17:35	18:32		dry 1/2 inch fine sand				1.07
18:32	19:29		dry 1/2 inch fine sand				1.07
19:29	20:26		dry 1/2 inch fine sand				1.07
20:26	21:23		dry 1/2 inch fine sand				1.07
21:23	22:20		dry 1/2 inch fine sand				1.07
22:20	23:17		dry 1/2 inch fine sand				1.07
23:17	24:14		dry 1/2 inch fine sand				1.07
24:14	25:11		dry 1/2 inch fine sand				1.07
25:11	26:08		dry 1/2 inch fine sand				1.07
26:08	27:05		dry 1/2 inch fine sand				1.07
27:05	28:02		dry 1/2 inch fine sand				1.07
28:02	28:59		dry 1/2 inch fine sand				1.07
INSTALLATIONS		Casing: from		Comments:		Comments:	
SCRAPER: from		(n) Diameter		(m) Diameter		Comments:	
TESTING: (packer/mercurial/flow mtr)						see test sheet for data	

# MCNEILL DRILLING CO. LTD

LOCATION: *Diama Gold*

HOLE N<sup>o</sup>. *004200*

Drill Rig Type: *4000*

*100/200*

Sheet *4000* of *4*

*Typing &*

Length of hole:

Inclined at: *0* to *0* (m) Rotary from *0* to *0* (m)

TIME: *6:00*

of

Driller: *Blowers*

Drilling Method: *1/2*

Water Pressure (Bar)

Water Flow (litre)

Start Time: *19:00*

Drilling Method: *1/2*

Water Pressure (Bar)

Water Flow (litre)

Run Length

Interval

From To

Drilling Method

Hole Diameter

Start Time: *19:00*

Drilling Method: *1/2*

Water Pressure (Bar)

Water Flow (litre)

Run Length

Interval

From To

Drilling Method

Hole Diameter

Run Length

Interval

From To

Drilling Method

Hole Diameter

Run Length

Interval

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Hole Diameter

see last sheets for data

# MCNEILL DRILLING CO. LTD

## LOCATION:

*David Gill, Traymore Co*

HOLE No.

*POH5201*

Drilling Type:

*WATER*

Share of

*12/10/80*

Drilling Log

INSPECTOR: *J. H. H. H.*

Driller: *J. H. H. H.*

TIME

Shift Finish

2:00 to 5:30

Length of hole:

TYPE: Open holes from

SHIFT START DATE: *28/10/80*

SHIFT FINISH DATE: *28/10/80*

TIME: *7:00* to *7:00*

DESCRIPTION: Hardness, material, colour

Water Pressure (lbf/sq)

Water Flow (litres)

COMMENTS Breakdowns etc

INTERVAL

From To

Drilling Hole Diameter

(m) Tubing from

(m) Runway from

TIME: *7:00* to *7:00*

DESCRIPTION: Hardness, material, colour

Water Pressure (lbf/sq)

Water Flow (litres)

COMMENTS Breakdowns etc

INSTALLATIONS

SCREEN: from

to

to

(m) Diameter:

(m) Diameter:

Comments:

Comments:

TESTING: (metres per second / flow rate)

see test sheets for data

2:00 2:30

2:30 3:00

3:00 3:30

3:30 4:00

4:00 4:30

4:30 5:00

5:00 5:30

5:30 6:00

6:00 6:30

6:30 7:00

7:00 7:30

7:30 8:00

8:00 8:30

8:30 9:00

9:00 9:30

9:30 10:00

10:00 10:30

10:30 11:00

11:00 11:30

11:30 12:00

12:00 12:30

12:30 1:00

1:00 1:30

1:30 2:00

2:00 2:30

2:30 3:00

3:00 3:30

3:30 4:00

4:00 4:30

4:30 5:00

5:00 5:30

5:30 6:00

6:00 6:30

6:30 7:00

7:00 7:30

7:30 8:00

8:00 8:30

8:30 9:00

9:00 9:30

9:30 10:00

10:00 10:30

10:30 11:00

11:00 11:30

11:30 12:00





# McNEILL DRILLING CO. LTD

LOCATION:

*Chenoweth Hill Tennis Co*

Drill Rig Type:

*MDL 450*

HOLE No.

*EDMS101*

DRILLING LOG

INSPECTOR: *David*

Driller: *David*

TIME

Start Finish

7:30 8:00

10:30

12:00

4:00

Length of hole:

TYPE: Open hole

Drilling Method:

From To

7-50

7-50

7-50

7-50

7-50

7-50

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Water Pressure (kPa)

Water Flow (liters)

Water Pressure (kPa)

Water Flow (liters)

Water Pressure (kPa)

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COMMENTS Breakdowns etc

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INSTALLATIONS

CASING: from to

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Flow rate:

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# McNEILL DRILLING CO. LTD

## LOCATION:

*Monsey Rd Topping Gully*

HOLE No. *DA1102*

Drill Rig Type: *WD650*

Sheet *1* of *1*

Inclination: *0*

(m) Tubing from

to (m) Rotary from

TIME: *7:00* to *05:40*

SHIFT FINISH DATE: *05/10*

DESCRIPTION: Hardness, material, colour

Water Pressure (kPa)

Water Flow (l/min)

COMMENTS Breakdowns etc

Drilling Method:

Hole Diameter

INSTALLATIONS

CASING: from *60*

SCREEN: from *to*

TESTING (pack/permeability/flow rate):

Length of hole:

TYPE: Open boring from

SHIFT START DATE: *05/10*

Interval

From To

Run Length

Start Finish

Time

Driller: *J. H. H.*

Drilling Method:

Hole Diameter

INSTALLATIONS

CASING: from *60*

SCREEN: from *to*

TESTING (pack/permeability/flow rate):

Length of hole:

TYPE: Open boring from

SHIFT START DATE: *05/10*

Interval

From To

Run Length

Start Finish

Time

Driller: *J. H. H.*

Drilling Method:

Hole Diameter

INSTALLATIONS

CASING: from *60*

SCREEN: from *to*

TESTING (pack/permeability/flow rate):

0

0

0

Start Finish	Run Length	Interval	Drilling Method:	Hole Diameter	DESCRIPTION: Hardness, material, colour	Water Pressure (kPa)	Water Flow (l/min)	COMMENTS Breakdowns etc
1:00	10:00							
	0.0	0.95	<i>Core 100%</i>		<i>Hardly breaking granules</i>	<i>Normal</i>	<i>1.00</i>	
	0.95	1.00			<i>Some fine sand &amp; clay</i>		<i>1.00</i>	
	1.00	3.50			<i>" "</i>		<i>1.50</i>	
					<i>Normal 3.50 Coarse</i>			
					<i>Normal Gravel</i>			
					<i>Timber have horizontal etc</i>			

INSTALLATIONS	CASING: from	to	SCREEN: from	to	(m) Diameter	Comments
	<i>60</i>					

TESTING (pack/permeability/flow rate):	(m) Diameter	Comments

100 feet sheets for data

# MCNEILL DRILLING CO. LTD

## LOCATION:

Mooney Mine Topping Sully  
Dist. Co. Tipperary

HOLE No.

DARTOOL

Drill Rig Type:

WABCO

Sheet of

DRILLING LOG

INSPECTOR

Driller: *A. Morgan*

TIME

Length of hole:

TYPE: Open hole from

Drilling Interval

Hole Diameter

From To

Interval

From To

Run Length

Start Finish

0.30 10.50

4.50 5.50

5.50 6.50

6.50 7.50

7.50 8.50

8.50 9.50

9.50 10.50

10.50 11.50

11.50 12.50

12.50 13.50

13.50 14.50

14.50 15.50

15.50 16.50

16.50 17.50

17.50 18.50

18.50 19.50

19.50 20.50

20.50 21.50

21.50 22.50

22.50 23.50

23.50 24.50

24.50 25.50

25.50 26.50

26.50 27.50

27.50 28.50

28.50 29.50

29.50 30.50

30.50 31.50

31.50 32.50

32.50 33.50

33.50 34.50

34.50 35.50

Inclination: N

(m). Tubing from

TIME: 7.30

SHIFT FINISH DATE: 2/1/81

DESCRIPTION: Hardness, material, colour

Water Pressure (atm)

Water Flow (lit/min)

COMMENTS Breakdowns etc

2/1/81

Travelling Machine Base

Revised

1.31

1.60

1.58

1.12

1.30

80

1.56

1.86

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1.07

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INSTALLATIONS

SCREEN: from to

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DIAMETER: (m)

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# McNEILL DRILLING CO. LTD

## LOCATION:

*Macoma Ring Trenching July*

Drill Rig Type:

*WD450*

HOLE No.

*D1102*

Sheet of

Length of hole:  
TYPE: Open boring from

Drilling Method:  
Hole Diameter

SHIFT START DATE: *15/10* to *16/10* TIME: *7:50* to *4:50*

SHIFT FINISH DATE: *15/10* to *16/10* TIME: *7:50* to *4:50*

DESCRIPTION: Hardness, material, colour

*SP 1-95*

DRILLING LOG

INSPECTOR: *R. Howard*

Driller: *R. Howard*

TIME

Start Finish

*7:50 10:00*

RUN LENGTH

INTERVAL

From To

*80.00 81.50*

*81.50 83.00*

*83.00 84.50*

*84.50 86.00*

*86.00 87.50*

*87.50 89.00*

*89.00 90.50*

*90.50 92.00*

*92.00 93.50*

*93.50 95.00*

*95.00 96.50*

*96.50 98.00*

Drilling Method:

Hole Diameter

TIME: *7:50* to *4:50*

SHIFT FINISH DATE: *15/10* to *16/10*

DESCRIPTION: Hardness, material, colour

*SP 1-95*

Water Pressure (MPa)

Water Flow (l/min)

Comments: Breakdowns etc

*1.50*

*1.80*

*1.71*

*1.86*

*1.66*

*1.56*

*1.56*

*1.61*

*1.58*

*1.90*

*1.54*

*1.97*

*1.58*

INSTALLATIONS

CASING: from to

SCREEN: from to

TESTING (packer/permeability/flow rate):

(m) Diameter: Comments:

(m) Diameter: Comments:

see test sheets for data

# MCNEILL DRILLING CO. LTD

## LOCATION:

*Chance Hill Mining Ltd*

HOLE No.

*DARTO2*

Drill Rig Type:

*WABCO*

DRILLING LOG

INSPECTOR: *Chance*

Driller: *Chance*

TIME

Length of hole:

TYPE: Open boring from

SHOULDER DATE: *2/6/10*

Drilling Method:

Hole Diameter

Inclination: *1*

(a). Tubing from

TIME: *2:00*

DESCRIPTION: Hardness, material, colour

Rotary from

TIME: *2:00*

Water Pressure (PSI)

Water Flow (litres)

COMMENTS Breakthroughs etc

From To

INTERVAL

Run Length

Start Finish

7:00

7:00

7:00

7:00

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INSTALLATIONS

CASING: from

SCREEN: from

TESTING (permeability/flow rate):

(m). Diameter:

(m). Diameter:

Comments:

Comments:

see first sheets for rats



# MCNEILL DRILLING CO. LTD

## LOCATION:

Chrysom Mine Tuguey Valley  
 Inclination: 70°

HOLE No. **DHT0A**

Drill Rig Type: **NR160**

DRILLING LOG	Length of hole:		Incubation:		Tubing from		Rotary from		Water Pressure (kPa)	Water Flow (l/min)	COMMENTS Breakdowns etc
	TYPE: Open hole	SHIFTS	START DATE	FINISH DATE	TIME	TO	TO	TO			
INSPECTOR	Driller	TIME	INTERVAL	From	To	DESCRIPTION: Hardness, material, colour	TIME	TO	TO	TO	TO
	<i>A. Harris</i>	Start Finish 7:00 8:00									
				14:00	15:50	Case 8 1/2				1.48	
				15:50	17:00					1.87	
				17:00	18:17					1.758	
				18:17	18:59					1.87	
				18:59	19:46					1.60	
				19:46	20:25					1.63	
				20:25	21:08					1.50	
				21:08	21:58					1.60	
				21:58	22:50					1.49	
				22:50	23:36					1.50	
				23:36	24:20						
				24:20	25:00						
				25:00	25:50						
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				123:20	124:06						
				124:06	124:50						
				124:50	125:36						
				125:36	126:20						



# MCNEILL DRILLING CO. LTD

## LOCATION:

*Messers Plains Topping Co*  
 Inclination: *PC* Bedding: *to*

Drill Rig Type:

*MO&SO*

HOLE No.

*P17704*

DRILLING LOG

INSPECTORY

Driller: *A. Harris*

TIME

Length of hole:

TYPE: Open hole

SHIFT START DATE: *18/10*

INTERVAL

From To

Start Finish

*2.50* *11.50*

*2.00*

*6.00*

Inclination: *PC*

to (m) Bedding from

TIME: *1.50* SHIFT FINISH DATE: *18/10*

DESCRIPTION: Hardness, material, colour

Water Pressure (kPa)

Water Flow (litres)

TIME: *1.00*

COMMENTS Breakdowns etc

*Transferring bithead down to 1.00m*

*Supply bit to 1.00m*

*Stand to 1.00m*

*Check on 1.00m*

*Check on 1.00m*

INSTALLATIONS

CASING from to

SCREEN from to

TESTING (packer permeability/flow rate):

Comments:

Comments:

see test sheets for data



DRILLING LOG		Length of hole:		LOCATION:		HOLE No.		Drill Rig Type:	
INSPECTION		TYPE: Open boring from:		Incination: Bearing:		DPH5196		627X690	
Driller: M. Heston		SHIFT START DATE: 10/16/80		TIME: 7:00		Rotary from to (m)		Sheet of	
TIME		Drilling Method:		SHIFT FINISH DATE: 10/16/80		TIME: 6:30			
RUN LENGTH		Hole Diameter		DESCRIPTION: Hardness, material, colour:		Water Pressure (KPa)		Water Flow (lit/min)	
Start Finish		From To		w/ Antimony Flour				COMMENTS Breakdowns etc	
0:00	7:05								
		6:00	6:59	Case H.B.	Drilling in Trench			1.55	
		6:59	9:00		Case H.B.			1.47	
		9:00	9:17		Case H.B.			1.80	
		9:17	10:30		Case H.B.			1.03	
		10:30	11:00		Case H.B.			1.56	
		11:00	6:59	Case H.B.	Case H.B.			1.34	
		6:59	14:00		Case H.B.			1.54	
		14:00	15:11		Case H.B.			1.56	
		15:11	17:00		Case H.B.			1.51	
17:00	18:45			Probe Test	17:00 - 17:00			1.88	
		17:00	18:45	Case H.B.	Case H.B.			1.46	
		18:45	21:02		Case H.B.			1.50	
		21:02	23:12		Case H.B.			1.57	
		23:12	24:12		Case H.B.			1.50	
		24:12	26:12		Case H.B.			1.46	
		26:12	27:12		Case H.B.			1.57	
		27:12	30:12		Case H.B.			1.50	
30:00	5:00			Probe Test	30:12 - 20:11			1.46	
				Supply Refill	Plugging Passes 12mm Supply by 2mm Gull to F/D			1.57	
					3 days ahead to 23.30			1.50	
					Start to Long 60 hrs cont. 1 Day				
					Cleaning of Gull				
					Time 11:00				
6:30									
INSTALLATIONS		CASING: from to		(m) Diameter		Comments:			
TESTING (pack permeability/flow rate)		SCREEN: from to		(m) Diameter		Comments:		see test sheets for data	



DRILLING LOG		LENGTH OF LOG:		LOCATION:		HOLE NO.		Drill Rig Type:	
INSPECTOR:		TYPE: Open hole/ from		Inclination:		20H3197		UCR650	
Driller: <i>Alonso</i>		SHIFT START DATE: 8/1/10		TIME: 7:00		SHIFT FINISH DATE: 8/1/10		TIME: 2:00	
TIME:		Drilling Method:		DESCRIPTION: Hardness, material, color:		Water Pressure (MPa)		Water Flow (l/min)	
RUN LENGTH		Interval		From To		Comments		H retdowning etc	
Start	Finish	From	To						
7:00	8:00	3.72	3:53	Case 103		10/10.58		.50	
		3:53	4:17	"		"		.92	
		4:17	5:07	"		"		.95	
		5:07	5:57	"		"		.71	
		5:57	6:30	"		"		.60	
		6:30	7:10	"		"		.47	
		7:10	8:03	"		"		.61	
		8:03	8:49	"		"		.47	
		8:49	9:37	"		"		.60	
		9:37	10:33	"		"		.60	
		10:33	11:16	"		"		.56	
10:15	11:15	11:16	12:24	Removal 10.11		Monday 10.11		.78	
		12:24	13:40	Case 103		Case 103		.37	
		13:40	14:10	"		"		.55	
		14:10	14:45	"		"		.55	
		14:45	15:38	"		"		.32	
		15:38	16:14	"		"		.52	
		16:14	16:51	"		"		.54	
		16:51	17:32	"		"		.51	
17:30	3:30	17:32	17:58	Packer 10.11		17.12 11.22		.61	
		17:58	18:38	Case 103		Case 103		1.05	
		18:38	19:40	"		"		.76	
		19:40	20:48	"		"		.92	
INSTALLATIONS		SCREENS from		Casing from 20.42 to 21.35		Comments:		Comments:	
TESTING (packer/pressure/stability/flow rate):		SCREENS from		Casing from 20.42 to 21.35		Comments:		Comments:	
		(m) Diameter:		(m) Diameter:		see test sheets for data			

# MCNEILL DRILLING CO. LTD

LOCATION:

*Chesman Subb Tapping Co*  
 Incination: *7*

HOLE No.  
*1045.97*

Drill Rig Type:  
*WASD*

Sheet *1* of *1*

DRILLING LOG  
 Driller: *R. H. ...*

Length of hole:  
 TYPE: Open hole from *0* to *100* ft. Tubing from *0* to *100* ft. Rotary from *0* to *100* ft. TIME: *5:30*

SHIFT START DATE: *1/2/70*  
 SHIFT FINISH DATE: *1/3/70*  
 DESCRIPTION: *Handwired, material, colour*  
*1/2" 56*

Water Pressure (kPa): *Normal*

Water Flow (lit/min): *1.16*

COMMENTS: *Handwired*

*Light pipe to the bottom of hole*

*Handwired*

*Handwired*

*Handwired*

*Handwired*

*Handwired*

*Handwired*

*Handwired*

*Handwired*

*Handwired*

*Handwired*

*Handwired*

*Handwired*

*Handwired*

*Handwired*

*Handwired*

*Handwired*

*Handwired*

*Handwired*

*Handwired*

*Handwired*

INSTALLATIONS

CASING: From *0* to *100*

SCREEN: From *0* to *100*

TESTING (packer/permeability/flow rate):

11.45 1.85

4.00

4.30

# MCNEILL DRILLING CO. LTD

## LOCATION:

*McCanna Field Spring 2*

Drill Rig Type:

*AD650*

HOLE No.

*OPH 5198*

DRILLING LOG

INSPECTOR

Driller: *W. H. ...*

TIME

Length of hole:

TYPE: Open hole from

SHIFT START DATE: *16/10/80*

Drilling Method

Inclination: *V*

(m) Tubing from to (m) Rotary from to (m)

TIME: *5:00* SHIFT FINISH DATE: *16/10/80* TIME: *6:00*

DESCRIPTION: Hardness, material, collect

Sheet

of

COMMENTS Breakdowns etc

Water Pressure (kPa)

Water Flow (litre)

Water Pressure (kPa)

Water Flow (litre)

From To

Interval

From To

Run Length

Start Finish

1:30

1:30

2:00

2:54

3:14

3:16

3:15

3:30

3:00

3:26

3:27

3:51

3:02

3:00

3:40

4:00

11:00

12:50

13:50

14:15

14:50

15:00

15:00

15:00

15:00

15:00

15:00

15:00

15:00

15:00

15:00

15:00

15:00

15:00

15:00

15:00

INSTALLATIONS

CASING: from to

SCREEN: from to

TESTING (pascals/permeability/flow rate):

(m) Diameter:

(m) Diameter:

Comments:

Comments:

see test sheets for data

# McNEILL DRILLING CO. LTD

## LOCATION:

*Cocoma Gold Tipping Co*

## HOLE No.

*DH5 198*

## Drill Rig Type

*10653*

## DRILLING LOG

Inspector: *[Signature]*

Length of hole: *[Blank]*

Inclination: *[Blank]*

Sheet *[Blank]* of *[Blank]*

TYPE: *[Blank]*

SHIFT START DATE: *[Blank]* to *[Blank]*

TIME: *[Blank]* to *[Blank]*

Water Pressure (lbs) to (m)

Drilling Method: *[Blank]*

DESCRIPTION: Hardness, material, colour

Water Flow (l/min)

INSTALLATIONS

Comments:

Comments Breakdowns etc

TESTING (packer/permeability/flow rate)

Comments:

Comments:

Start Finish

Interval

Water Pressure (lbs)

1.00 4.00

16.50 18.00

1.00

8.00 10.00

17.00 18.00

1.00

10.00 12.00

18.00 19.00

1.00

12.00 14.00

19.00 20.00

1.00

14.00 16.00

20.00 21.00

1.00

16.00 18.00

21.00 22.00

1.00

18.00 20.00

22.00 23.00

1.00

20.00 22.00

23.00 24.00

1.00

22.00 24.00

24.00 25.00

1.00

24.00 26.00

25.00 26.00

1.00

26.00 28.00

26.00 27.00

1.00

28.00 30.00

27.00 28.00

1.00

30.00 32.00

28.00 29.00

1.00

32.00 34.00

29.00 30.00

1.00

34.00 36.00

30.00 31.00

1.00

36.00 38.00

31.00 32.00

1.00

38.00 40.00

32.00 33.00

1.00

40.00 42.00

33.00 34.00

1.00

42.00 44.00

34.00 35.00

1.00

44.00 46.00

35.00 36.00

1.00

46.00 48.00

36.00 37.00

1.00

48.00 50.00

37.00 38.00

1.00

50.00 52.00

38.00 39.00

1.00

52.00 54.00

39.00 40.00

1.00

54.00 56.00

40.00 41.00

1.00

56.00 58.00

41.00 42.00

1.00

58.00 60.00

42.00 43.00

1.00

60.00 62.00

43.00 44.00

1.00

62.00 64.00

44.00 45.00

1.00

64.00 66.00

45.00 46.00

1.00

66.00 68.00

46.00 47.00

1.00

68.00 70.00

47.00 48.00

1.00

70.00 72.00

48.00 49.00

1.00

72.00 74.00

49.00 50.00

1.00



DRILLING LOG		LENGTH OF HOLE:		LOCATION:		HOLE NO.		Drill Rig Type:	
INSPECTOR:		TYPE: Open ending from		Inclination:		DPH#		Svent of	
Driller: <i>J. Thomas</i>		SHIFT START DATE: 8/6/10		TIME: 7:00		DPH 5199		MCA650	
TIME:		SHIFT FINISH DATE: 8/6/10		TIME: 7:35		DPH 5199			
Start Finish	RUN LENGTH	INTERVAL		Dwilling Method/ Hole Diameter		Water Pressure (kPa)	Water Flow (l/min)	COMMENTS Breakdown etc	
		From	To	DESCRIPTION: Hardness, material, colour	Rotary from to (m)				
7:30	7:30	0.0	0.98	Concrete	Concrete	105	0.05	13.17	1.80 - Concrete
		0.98	1.70			69	0.05	14.34	1.80 - 2.00
		1.70	2.36			30	0.05		2.00 - 2.10
		2.36	3.46			58	0.05		2.10 - 2.20
		3.46	4.07			48	0.05		2.20 - 2.30
		4.07	4.93			30	0.05		2.30 - 2.40
		4.93	5.35			43	0.05		2.40 - 2.50
		5.35	5.72			60	0.05		2.50 - 2.60
		5.72	6.29			58	0.05		2.60 - 2.70
		6.29	6.96			57	0.05		2.70 - 2.80
		6.96	7.19			36	0.05		2.80 - 2.90
		7.19	7.48			30	0.05		2.90 - 3.00
		7.48	7.99			50	0.05		3.00 - 3.10
		7.99	8.46			67	0.05		3.10 - 3.20
		8.46	9.03			68	0.05		3.20 - 3.30
		9.03	9.87	Crack Zone	Crack Zone	50	0.05		3.30 - 3.40
		9.87	10.25	Crack Zone	Crack Zone	43	0.05		3.40 - 3.50
		10.25	10.77	Crack Zone	Crack Zone	58	0.05		3.50 - 3.60
		10.77	11.11	Crack Zone	Crack Zone	31	0.05		3.60 - 3.70
		11.11	11.51	Crack Zone	Crack Zone	60	0.05		3.70 - 3.80
		11.51	11.92	Crack Zone	Crack Zone	57	0.05		3.80 - 3.90
		11.92	12.36	Crack Zone	Crack Zone	40	0.05		3.90 - 4.00
		12.36	12.67	Crack Zone	Crack Zone	40	0.05		4.00 - 4.10
INSTALLATIONS		Casing from		Comments:		Comments:		Comments:	
TESTING (packer permeability/flow rate):		SCREEN: from to		(m). Diameter:		(m). Diameter:		see test sheets for data.	

# MCNEILL DRILLING CO. LTD

## LOCATION:

*Chemura Gold Tapping Co*  
Inclination: *7°*

HOLE No.  
*ADN 5199*

Drill Rig Type:  
*ADAGO*

DRILLING LOG INSPECTOR Duller: <i>Chapman</i>	Length of hole: TYPE: Open boring from SHIFT START DATE: <i>17/6/76</i> to SHIFT FINISH DATE: <i>16/19</i>	Inclination: <i>7°</i>	Rotary from TIME: <i>7:00</i> to TIME: <i>6:30</i>	HOLE No. <i>ADN 5199</i>	Drill Rig Type: <i>ADAGO</i>	Sheet of	COMMENTS Breakdowns etc
TIME	INTERVAL From To	Drilling Method Hole Diameter	Drilling Method Hole Diameter	Water Pressure (MPa)	Water Flow (Volume)	Water Pressure (MPa)	Water Flow (Volume)
Start Finish <i>7:05</i>	<i>15:52 15:55</i>	<i>Cased Hole</i>	<i>Handy Pump</i>	<i>Reamed</i>	<i>30</i>		
<i>8:10 10:05</i>	<i>15:55 15:58</i>		<i>Handy Pump</i>		<i>27</i>		
	<i>15:58 17:1</i>	<i>Handy Pump</i>	<i>Handy Pump</i>		<i>29</i>		
	<i>17:1 17:51</i>	<i>Handy Pump</i>	<i>Handy Pump</i>		<i>40</i>		
	<i>17:51 19:13</i>	<i>Handy Pump</i>	<i>Handy Pump</i>		<i>95</i>		
	<i>19:13 19:15</i>	<i>Handy Pump</i>	<i>Handy Pump</i>		<i>58</i>		
	<i>19:15 19:27</i>	<i>Handy Pump</i>	<i>Handy Pump</i>		<i>52</i>		
	<i>19:27 20:09</i>	<i>Handy Pump</i>	<i>Handy Pump</i>		<i>33</i>		
	<i>20:09 21:36</i>	<i>Handy Pump</i>	<i>Handy Pump</i>		<i>1:28</i>		
	<i>21:36 21:49</i>	<i>Handy Pump</i>	<i>Handy Pump</i>		<i>56</i>		
	<i>21:49 22:43</i>	<i>Handy Pump</i>	<i>Handy Pump</i>		<i>1:02</i>		
	<i>22:43 23:05</i>	<i>Handy Pump</i>	<i>Handy Pump</i>		<i>1:07</i>		
<i>2:5 4:10</i>	<i>23:05 24:05</i>	<i>Handy Pump</i>	<i>Handy Pump</i>		<i>1:22</i>		
	<i>24:05 25:53</i>	<i>Handy Pump</i>	<i>Handy Pump</i>		<i>1:30</i>		
	<i>25:53 26:26</i>	<i>Handy Pump</i>	<i>Handy Pump</i>		<i>83</i>		
	<i>26:26 27</i>	<i>Handy Pump</i>	<i>Handy Pump</i>				
INSTALLATIONS	CASING: from SCREEN: from	to to	(m) Diameter: (in) Diameter:	Comments:	Comments:		
TESTING (pore/permeability/flow rate)							

100 test sheets for data

# ENGINEERING GEOLOGY LTD

ROCK LOG

DRILLHOLE No.: DH  
 DO-1519y  
 PAGE 1 OF 1  
 Job No.: T1002

PROJECT: Tipperary Dam Investigation  
 LOCATION: Tipperary Creek  
 CO-ORDINATES: 72785/11863

RL GROUND:  
 DATUM:  
 ORIENTATION: - 90 -> 360

HOLE STARTED: 24/5/10  
 HOLE FINISHED: 2/5/10

Core Description			Rock Defects		Drilling & Testing									
RECORDED AND	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (meters)	DEPTH (ft)	GENERIC LOS	DEFECT DESCRIPTION & Additional Observations	FRACURE LOS Square per m ft x 288	WEATHERED ROCK STRENGTH	PFLUNDALUS TEST (MPa)	COARSE LOSS %	GRAIN LENGTH	COM. UNSATURATED RQD (%)	SAMPLES	WATER TEMPERATURE FLUIDS %	FIELD TESTS
5m/1	Clay rich soil - massive (Probably loess)	0			Compacted clay soil		VS	W						
	Schist fragments - rock surface	0.5			Broken rock fragments						0.95			
	Coarse grained laminated schist with an average foliation of 70°. Minor small scale folding. Some quartz veins esp. in fold have vugs possibly after calcite or rock fragments.	1			5x joints @ 50°, 30° uplapping, 1monte clay infill						1.1			
		2			Joint 20° laminae/foliation infill, undulating		HW				2.0			
		3			Joint 20° laminae/foliation infill undulating						1.45			
		4			Joint 25° laminae/foliation infill undulating						1.30			
		5			Joint 25° laminae/foliation infill undulating						1.30			
		6			Joint 30° laminae/foliation infill planar						1.40			
		7			Joint 30° laminae/foliation infill planar						1.6			
		8			Joint 30° laminae/foliation infill planar						1.7			
		9			Joint 30° laminae/foliation infill planar						2.1			
		10				Fault 5cm passy clay infill @ 20°								

Juggy  
veins  
in fold

weak with localized strong weathering around joints  
strings

NOTES:

LOGGED: M. Gahan  
 CHECKED:

DRILLER: M. A. I. Drilling  
 DRILL TYPE: HQ

ENGINEERING GEOLOGY CORED HOLE LOG - ROCK LOG (MMS) (RES. COPY) (NOT FOR)

# ENGINEERING GEOLOGY LTD

ROCK LOG

DRILLHOLE No.: DH  
2 DCH 5194  
PAGE 2 OF 1

Job No.:

PROJECT: *Tippary Dam Westigation*  
LOCATION: *Tippary Creek*  
CO-ORDINATES: *72785/11863*

RL GROUND:  
DATUM:  
ORIENTATION:

HOLE STARTED: *24/5/10*  
HOLE FINISHED: *2/6/10*

Core Description			Rock Defects				Drilling & Testing					
DEPTH (m)	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEFECT DESCRIPTION & Additional Observations	WEATHERING	ROCK STRENGTH	PT / LOGGING TEST (MPa)	POORE LOSS %	DATE / DEPTH (core length)	NO. (m)	GRAPHS	WATER	FIELD TESTS
0	<p>Coarse grained laminated schist. Most breaks are shaly in direction.</p> <p>Average foliation @ 60° consistent with 20° dip to east</p>	0	Broken cons. multiple joint orientations. Strong clay & limestone staining									
1		1	Strongly jointed. 2 sets @ 10°, 40° Strongly limestone stained, undulating rough									
2		2	Joint set 10°, 30° limestone infill, planar, rough									
3		3	Joint set 15°, 30°, clay infill planar to undulating, rough									
4		4	Joint 60° clay infill, undulating, rough									
5		5	Joint 10°, clay infill, planar rough									
6		6	Perennial joints (S) 50°, clay infill, planar undulating, rough									
7		7	Joint set 10°, 2°, 60° clay infill, undulating, rough									
8		8	Joints bounding field hinge & del. in west?									
9		9	Joint 10° bedded, white? infill undulating, rough									
10	10	Joint set 30°, 60° silty infill undulating, rough. Minor limestone on joint surface										

NOTES:

LOGGED: *M. Galan*  
CHECKED:

DRILLER: *M. Galan*  
DRILL TYPE: *HQ*

ENGINEERING GEOLOGY CONSULTANTS F.L.O. ROCKLOGS.AU ENGINEERING GEOLOGY CONSULTANTS 4909

PROJECT: <b>TIPPERARY DAM Investigation</b> LOCATION: <b>TIPPERARY CREEK</b> CO-ORDINATES: <b>11785/11863</b>	RL GROUND: DATUM: ORIENTATION:	HOLE STARTED: <b>24/5/10</b> HOLE FINISHED: <b>2/6/10</b>
---	--------------------------------------	--

Core Description			Rock Defects			Drilling & Testing					
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH RL (metres)	DEPTH RL (GRAPHIC LOG)	DEFECT DESCRIPTION & Additional Observations	FRAC/LOG LOG Fracture per m core	WEATHERING POOR STRENGTH PT LOAD/UCS TEST (MPa)	% CORE LOSS %	DATE / DEPTH	CORE LENGTHS FOC (m)	SAMPLES	FIELD TESTS
	Coarse grained laminated schist with minor localised folding. Average foliation 70°	0		Joint @ 15°, limestone-clay infill, planar, undulating, rough							
		23							1-66 MB		
		23.75		23-1 Core dropped and restricted Joint @ 10°, limestone and infill, planar, rough							
	Core loss	24		Possible fault zone and clay washed out					1-56 MB		
		24.9							1-06 MB		
	Coarse grained laminated schist with minor localised folding. Avg foliation 70°	25		Joint 10°, calcite infill, planar, rough v2					1-54 MB		
		26							1-54 MB		
		27		2+ joints @ 30°, clay infill, planar, rough					1-48 MB		
		28		jt @ 10°, clay infill, undulating - stopped, rough					1-48 MB		
		29							1-55 MB		
		30							1-53 MB		

NOTES:	LOGGED: M. Golan CHECKED:	DRILLER: M. Neil DRILL TYPE: HQ
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ENGINEERING GEOLOGY CORRECTION LOG ROO/LOG.DPJ ENGINEERING GEOLOGY CORRECT.DJT 8/8/09

# ENGINEERING GEOLOGY LTD

ROCK LOG

DRILLHOLE No.: DH  
4  
PAGE 3 OF 3  
SDH 5144  
Job No.:

PROJECT: TIPPERARY DAM Investigation  
LOCATION: TIPPERARY CREEK  
CO-ORDINATES: 72785/11863

RL GROUND:  
DATUM:  
ORIENTATION:

HOLE STARTED:  
HOLE FINISHED:

Core Description		Rock Defects		Drilling & Testing													
BIOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (meters)	DEPTH (RL)	GRAPHIC LOG	DEFECT DESCRIPTION & Additional Observations	SUCCESSION 100 Value at 100m	WEATHERING	ROCK STRENGTH	P LOADING TEST (kPa)	CORE LOSS %	DATE / DEPTH CORE DOWNWARD	POD PU	DAMPEN	WATER CONTENT	WATER BLOOM %	FIELD TESTS	
	Coarse grained laminated sandst. Foliation varying between 60-70°. Most breaks are drilling breaks on foliation	0															
		1			Joint @ 25°, clay infill, undulating, rough						1.53						
		2			Joint @ 25°, clay-gtz infill undulating						1.67						
		3			Joint @ 25°, clay infill, undulating, rough						1.81						
		4			Joint @ 55°, clay infill, undulating, rough						1.49						
		5			Joint @ 10°, pyrite-chy infill, undulating, rough						1.49						
		6			Joint @ 65°, clay infill, planar						1.50						
		7			Joint @ 0°, quartz infill, undulating, rough						1.50						
		8			Joint @ 60°, clay infill, undulating, rough						1.50						
		9			2x Joint @ 50°, quartz-pyrite infill planar undulating, rough						1.50						
		10			Joint @ 25°, calc to quartz infill planar, rough, sealed						1.50						

NOTES:

LOGGED: M. Collier  
CHECKED:

DRILLER: PH Neil  
DRILL TYPE: HGR

# ENGINEERING GEOLOGY LTD

## ROCK LOG

DRILLHOLE No: DH  
5 DDH519G  
PAGE 2 OF 1

Job No.:

PROJECT: TIPPERARY DAM Investigation  
LOCATION: TIPPERARY CREEK  
COORDINATES: 72785/11863

RL GROUND:  
DATUM:  
ORIENTATION:

HOLE STARTED:  
HOLE FINISHED:

Core Description		Rock Defects		Drilling & Testing											
LOGICAL UNIT	ROCK/SOIL MATERIAL DESCRIPTION	DEPTH (m)	GRAPHIC LOG	EFFECT DESCRIPTION & Additional Observations	WEATHERING LOG	ROCK STRENGTH	PT LOADINGS TEST (MPa)	2-CORNER LOSS %	DATE / DEPTH	ROD (m)	ROD (m)	SAMPLES	WATER	WATER FLUX %	FIELD TESTS
	Coarse grained gently folded laminated schist Foliation varying from 40-60°. Drillers breaks mostly on foliation and calcite veins etc.	41.9													
	Calcalsite	42.25		Fault hanging wall @ 50°, rock fragments & clay infill, undulating smooth. Fault wall @ 40°											
	Fine grained well laminated slickensided schist. Foliation @ 40° shallowing to 60° downhole	43.2		Joint @ 10°, clay infill, planar, rough-smooth											
	Coarse grained gently folded schist			Joint @ 40°, clay infill, undulating-planar, rough											
				Bed @ 25°, clay infill, undulating, rough, 2 sets of intersecting unites											
				2 sets steep intersecting joints @ 10-20°, clay filled, undulating, rough											
				H @ 30°, clay infill jointed, planar											
				Fault, 10mm, clay-rock fragment, infill planar, smooth-rough											
				Joint @ 20°, clay infill, healed, undulating, rough											
				Joint @ 0°, quartz-clay infill, undulating, rough											
				Fault @ 30°, rock fragments clay infill, undulating, rough											
	Calcalsite	49.7													

NOTES:

LOGGED: M Gellan  
CHECKED:

DRILLER: M'Dell  
DRILL TYPE: HQ

# ENGINEERING GEOLOGY LTD

ROCK LOG

DRILLHOLE No.: DH  
204595  
PAGE 1 OF 1  
JOB No.: T00Y

PROJECT: Tipperary Dam Investigation  
LOCATION: Tipperary Creek  
CO-ORDINATES: 72238/11540

RL GROUND:  
DATUM:  
ORIENTATION:

HOLE STARTED:  
HOLE FINISHED:

Core Description			Rock Defects		Drilling & Testing											
PROFICIAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (M)	DEPTH (RL)	GRAPHIC LOG	DEFECT DESCRIPTION & Additional Observations	WEATHERING	ROCK STRENGTH	PT LOAD/UCR TEST (MPa)	2 CORE LOSS%	DAYS / DEPTH	2 CORE LOSS%	ROCK NO.	SAMPLES	WATER	2 PHASE LOSS %	FIELD TESTS
	Clay rich soil - loess?	0.3			Well compacted soil.											
	Clay rich soil with silt fragments	0.75			Original rock texture largely intact											
	Highly weathered coarse grained schist. Closely spaced joint sets delineated by steep orientations. Some completely weathered zones where original rock texture is lost	1			Rock fragments and clay Closely spaced intersecting joint sets @ 10°. Limestone clay infill. Undulating, rough											
	Modestly weathered coarse grained schist. Strongly laminated. Closely spaced cleer zones with rock fragments and clay infill. Foliation at 70-80°	2			Joint set @ 10°, limestone infill, undulating-stepped, rough-smooth Joint @ 10°, clay infill, undulating, rough											
	Core loss	4.25			Shear zone with schist fragments											
	Core loss	4.60			Fault zone											
	Cataclastic and cleered schist mostly rock fragments	5			Shear zone with rock fragments, clay and cleered rock @ 50°?											
	Slightly weathered strongly sheared schist with foliation @ 60°	5			Joint @ 10°, limestone infill, undulating stepped, rough											
	Fault zone - dominantly cataclastic (rock fragments and clay) with intermittent zones of moderate to intensely cleered schist. Avg. shear angle 80°	6			Intensely cleered											
	Core loss	9.48														
	Core loss	9.70														

ENGINEERING GEOLOGY COREHOLE LOG ROCKLOG (RPL) ENGINEERING GEOLOGY COMPANY 2000

NOTES: Targeting shear zones across Eastern Lode trace

LOGGED: M. Golan  
CHECKED:

DRILLER: M. Golan  
DRILL TYPE: HQ



# ENGINEERING GEOLOGY LTD

ROCK LOG

DRILLHOLE No.: DH-  
DDH5195  
PAGE 1 OF 1  
Job No.: T1004

PROJECT: Tipperary Ck Dam Investigation  
LOCATION: Tipperary Ck  
CO-ORDINATES: 72238/4540

RL GROUND:  
DATUM:  
ORIENTATION:

HOLE STARTED:  
HOLE FINISHED:

LITHOLOGICAL UNIT	Core Description			Rock Defects		Drilling & Testing									
	ROCK/SOL MATERIAL DESCRIPTION	DEPTH (m)	GRAPHIC LOG	FAULT / DISCONTINUITIES & Additional Observations	Fracture type or count	WEATHERING	ROCK STRENGTH	P1 LOAD/SLURRY TEST (MPa)	% CORE LOSS %	DATE / DEPTH	ROD (m)	SAMPLES	WATER	FIELD TESTS	
Unweathered strongly shear coarse grained schist. Quartz laminae strongly boudinaged. Closely spaced crack zones and clears at shallow angles.	0			Fault @ 80°, 5mm gouge, planar, smooth, x2		MS in competent sections				1.52 HQ	35				
	1			Crack zone, 100mm, rock fragments							1.68 HQ	55			
Unweathered interlayered coarse and fine grained schist with widely spaced jointed zones. Gently folded in places with foliation varying from 70-90°.	2			Irregular stepped joint sets over 200mm, hanging wall of fault, 2cm, rock fragments, 80° undulating, rough to smooth		MS				1.52 HQ	38				
	3			Joint @ 20°, pyrite - white, steep to north							1.52 HQ	38			
	4			Closely spaced joint sets over 40cm, mostly 40° x 10° undulating - stepped, little infill, rough							1.5 HQ	80			
	5			Joint @ 15°, quartz infill, planar, rough							1.5 HQ	23			
Unweathered strongly broken zone with closely spaced faults, mostly gouge filled to 100mm, separated by variably cleared schist.	6			Fault @ 80°, 5mm gouge, foliation parallel, planar, rough to smooth		MS				1.5 HQ	23				
	7			Joint @ 15°, quartz-pyrite, infill, undulating, rough							1.5 HQ	23			
	8			Slatter zone around fold. with joints of various orientations							1.5 HQ	23			
	9			Joint curved, clay infill, undulating, rough		MS				1.5 HQ	23				
	10			Joint @ 15°, rough undulating, fault							1.5 HQ	23			
	11			Intensely faulted ground with closely spaced faults and clears filled with rock fragments and gouge. Orientation vary from 60-90°. Associated slatter zones around faults		MS				1.7 HQ	22				
	12										1.7 HQ	22			
	13									0.82 HQ	0				
	14									0.82 HQ	0				
	15									0.82 HQ	0				
	16									0.82 HQ	0				
	17									0.82 HQ	0				
	18									0.82 HQ	0				
	19									0.82 HQ	0				
	20									0.82 HQ	0				
	21									0.82 HQ	0				
	22									0.82 HQ	0				
	23									0.82 HQ	0				
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	25									0.82 HQ	0				
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	27									0.82 HQ	0				
	28									0.82 HQ	0				
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	95									0.82 HQ	0				
	96									0.82 HQ	0				
	97									0.82 HQ	0				
	98									0.82 HQ	0				
	99									0.82 HQ	0				
	100									0.82 HQ	0				

ENGINEERING GEOLOGY CORE-HOLE LOG ROCK LOG/EN/ ENGINEERING GEOLOGY CORE-HOLE LOG 8/9/09

NOTES:

LOGGED: M. Collins  
CHECKED:

DRILLER: M. Weir  
DRILL TYPE: HQ

# ENGINEERING GEOLOGY LTD

ROCK LOG

DRILLHOLE No.: DH  
DDH5195  
PAGE 1 OF 1  
Job No.: T1004

PROJECT: Tipperary Ck Dam Investigation  
LOCATION: Tipperary Co  
CO-ORDINATES: 72238/11540

RL GROUND:  
DATUM:  
ORIENTATION:

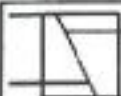
HOLE STARTED:  
HOLE FINISHED:

Core Description		Rock Defects		Drilling & Testing											
LITHOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEPTH (ft)	DEFECT DESCRIPTION & Additional Observations	ROCK LOG	WEATHERING	ROCK STRENGTH	PT LOADS LOGS TEST (MPa)	CORE LOGS %	DATE / DEPTH - CORE LENGTH (m)	ROD (m)	SAMPLES	WATER	WATER LOGS %	FIELD TESTS
	Unweathered fine grained laminated acidist with moderate to widely spaced joints. Minor folding with occasional steeper zone localized on fold. Foliation varies from 70-90°. Most breaks on rotation	0	0	Crust zone @ 80° centred on quartz vein 10mm.											
		1	3	Joint @ 15° quartz infill, undulating, stepped, rough.											
		1	3	Shear zone @ 80° quartz - graphite, phreatic, smooth.											
		2	6	Joints (2) @ 30° clay infill, undulating, rough											
		2	6	Joints (2) @ 50° clay infill, undulating, rough											
		4	13	Joint set, quartz infill, plane, rough, mostly 15°											
		5	16	Slater zone 50mm @ 80°											
		7	23	Joints (3) @ 10° clay - quartz pyrite infill, plane, rough											
		8	26	Joints (2) @ 20° clay infill, undulating, rough											
		9	29	Joint @ 70° clay infill											
		9	29	Joint @ 10° clay infill, undulating - stepped, rough											

NOTES:

LOGGED: M. Golan  
CHECKED:

DRILLER: M. McIl  
DRILL TYPE: HQ



# ENGINEERING GEOLOGY LTD

## ROCK LOG

DRILLHOLE No.: DH  
DDH5195  
PAGE 1 OF 1  
Job No.: TT004

PROJECT: Tipperary Cl Dam Investigation  
LOCATION: Tipperary Cl  
CO-ORDINATES: 72238/11540

RL GROUND:  
DATUM:  
ORIENTATION:

HOLE STARTED:  
HOLE FINISHED:

Core Description			Rock Defects				Drilling & Testing					
LOGGERS NAME	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEFECT DESCRIPTION & Additional Observations	FRACTURE LOG (nature and loc)	WEATHERING	ROCK STRENGTH (P) / UNCONSOLIDATED TEST (MPa)	CORE LOSS %	DATE / DEPTH	ROD (m)	SAMPLES	WATER IN WATER & LOSS %	FIELD TESTS
	Unsettled fine grained silty with no defects	0										
	E0130-5	5										
		10										

NOTES:

LOGGED: M. Gellan  
CHECKED:

DRILLER: McNeil  
DRILL TYPE: HQ

# ENGINEERING GEOLOGY LTD

ROCK LOG

DRILLHOLE No.: DH  
DDH15/96  
PAGE 1 OF 1  
Job No.: TT 008

PROJECT: Tipperary Ck Dam Investigation  
LOCATION: Tipperary Ck  
CO-ORDINATES: 71793 12379

RL GROUND:  
DATE:  
ORIENTATION: -90 → 350

HOLE STARTED: 9/6/10  
HOLE FINISHED: 11/6/10

Core Description			Rock Defects		Drilling & Testing										
COLLECTOR'S LID	ROCK/SOL MATERIAL DESCRIPTION	DEPTH (METERS)	DEPTH (M)	GRAPHIC LOG	DEFECT DESCRIPTION & Additional Observations	WATER LOSS Value per m in core	WEATHERING	ROCK STRENGTH	PT LOADS 300T (kPa)	COKE LOSS %	DATE / DEPTH Core Location	ROD (C)	SAMPLES	WATER WATER LOSS %	FIELD TESTS
	Loam-massive clayey soil.	0-0.35													
	Colluvium S. clay with schist fragments	0.35-0.8						VW							
	Strongly weathered, coarse grained, gently folded schist. Most breaks drilling induced on foliation Widely spaced joints mostly moderate angle to core axis.	0.8-2.0						M3			0.78 HQ				
	Very fine, strongly weathered schist	2.0-4.0						VW			1.67 HQ				
	Strongly weathered coarse grained gently folded schist. Widely spaced joints.	4.0-5.0									1.38 HQ				
		5.0-6.0									1.59 HQ				
		6.0-8.0			3 parallel joints @ 35° clay filled crust zone			M3			1.47 HQ				
		8.0-9.0									1.17 HQ				
	Very friable intensely weathered schist.	9.0-9.5			Crust zone associated with intense weathering			VW							
	Strongly weathered coarse grained schist	9.5-10.0						M3							

NOTES: Deeply weathered but mostly competent core.

LOGGED: M. Gollen  
CHECKED:

DRILLER: McNeil's  
DRILL TYPE: UDR650

HG

ENGINEERING GEOLOGY CORP/PHILE LOGS ROCK LOG.GPJ ENGINEERING GEOLOGY CORP.DWG 08/99

# ENGINEERING GEOLOGY LTD

ROCK LOG

DRILLHOLE No.: DH

PAGE 1 OF 1 DDH5196

Job No.: T1008

PROJECT: *Tipperary Dam Investigation*  
 LOCATION: *Tipperary Co*  
 CO-ORDINATES: *71793 12379*

RL GROUND:

DATUM:

ORIENTATION:

HOLE STARTED:

HOLE FINISHED:

MICROSCOPIC VIEW	Core Description			Rock Defects		Drilling & Testing									
	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	GRAPHIC LOG	DEFECT DESCRIPTION & Additional Observations	FRACTURE LOG	WATER LOSS	ROCK STRENGTH	PT (LOAD) TEST (MPa)	UNSAT. CORE LOSS %	DATE / DEPTH	ROD (m)	SAMPLES	WATER	FIELD TESTS	
	Strongly altered coarse grained schist with friable zones	0		Joints @ 15°											
	Strongly weathered coarse grained schist with dominant foliation angle @ 70°	1		J @ 10° } Minor Fe staining											
	Joints as widely spaced clusters around more highly weathered zones and caving filled with Fe staining	2		J @ 10°											
	Core break dominated by drilling breaks on foliation	3		Crust zones parallel to foliation (drilling induced?) intense clay alteration											
		4		2 intersecting joints @ 10° undulating - stepped fault											
		5		J @ 10°, undulating, rough Fe staining											
		6		Crust zone 5cm											
		7													
		8		J @ 40°, undulating, rough intense weathering visible joints											
		9		J @ 30°, undulating, rough Fe staining											
		10		Friable intensely weathered zone											
		11		J @ 30°, stepped, rough Fe staining											
		12		2 joints forming a planar zone, planar, Fe staining											

NOTES: *Deeply weathered*

LOGGED: M. Galan  
 CHECKED:

DRILLER:  
 DRILL TYPE:

PROJECT: <i>Tipperary Ck Dam Investigation</i> LOCATION: <i>Tipperary Ck</i> CO-ORDINATES: <i>71793 12379</i>	RL GROUND: DATUM: ORIENTATION:	HOLE STARTED: HOLE FINISHED:
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Core Description			Rock Defects			Drilling & Testing							
Geological Unit	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEPTH (m)	GRAPHIC LOG	DEFECT DESCRIPTION & Additional Observations	FRACTURE Type No. per m	WEATHERING	ROCK STRENGTH PT LOG/LOG TEST JURY	% CORE LOSS	DATE / DEPTH CORE LENGTH (m)	ROD NO.	SAMPLES	FIELD TESTS
	<p><i>Moderately weathered coarse grained schist with widely spaced joints mostly filled with sand and clay with limonite staining. Most core breaks are drilling breaks on foliation.</i></p>	0	0		<p><i>J @ 20° undulating, 1/2 stained</i></p> <p><i>J @ 20° undulating, rough staining</i></p> <p><i>2 x J @ 20° planar, rough, crossed around joints</i></p> <p><i>J @ 15° sealed with limonite</i></p>		Moderate			1.56 HQ			
	<p><i>Weakly weathered coarse grained schist. No joints. Drilling breaks on foliation common.</i></p>	29	29				Weak			1.52 HQ			

NOTES:	LOGGED: <i>M. Golan</i>	DRILLER:
	CHECKED:	DRILL TYPE:

ENGINEERING GEOLOGY COREHOLE LOG: ROCK LOG.GPJ: ENGINEERING GEOLOGY CORDED: 0000 01/09

PROJECT: <i>Tipperary Ck Dam Investigation</i> LOCATION: <i>Tipperary Ck</i> CO-ORDINATES: <i>71793/12379</i>	RL GROUND: DATUM: ORIENTATION:	HOLE STARTED: HOLE FINISHED:
---	--------------------------------------	---------------------------------

Core Description			Rock Defects				Drilling & Testing											
GEOLOGICAL UNIT	ROCK/SCL MATERIAL DESCRIPTION	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	DEFECT DESCRIPTION & Additional Observations	MULTI-CORE LOG Indicates core no. in core	WEATHERING ROCK	STRENGTH TEST (MPa)	PULP TEST (MPa)	CORE LOSS %	DATE / DEPTH	ROD (m)	SAMPLES	WATER	SLURRY	FIELD TESTS		
	<i>Heavily weathered coarse grained schist.</i>  <i>EOH 30-61m</i>	0 1 2 3 4 5 6 7 8 9 10	0 3 6 9 12 15 18 21 24 27 30 33 36 39 42 45 48 51 54 57 60 63 66 69 72 75 78 81 84 87 90 93 96 99 102 105 108 111 114 117 120 123 126 129 132 135 138 141 144 147 150 153 156 159 162 165 168 171 174 177 180 183 186 189 192 195 198 201 204 207 210 213 216 219 222 225 228 231 234 237 240 243 246 249 252 255 258 261 264 267 270 273 276 279 282 285 288 291 294 297 300 303 306 309 312 315 318 321 324 327 330 333 336 339 342 345 348 351 354 357 360 363 366 369 372 375 378 381 384 387 390 393 396 399 402 405 408 411 414 417 420 423 426 429 432 435 438 441 444 447 450 453 456 459 462 465 468 471 474 477 480 483 486 489 492 495 498 501 504 507 510 513 516 519 522 525 528 531 534 537 540 543 546 549 552 555 558 561 564 567 570 573 576 579 582 585 588 591 594 597 600 603 606 609 612 615 618 621 624 627 630 633 636 639 642 645 648 651 654 657 660 663 666 669 672 675 678 681 684 687 690 693 696 699 702 705 708 711 714 717 720 723 726 729 732 735 738 741 744 747 750 753 756 759 762 765 768 771 774 777 780 783 786 789 792 795 798 801 804 807 810 813 816 819 822 825 828 831 834 837 840 843 846 849 852 855 858 861 864 867 870 873 876 879 882 885 888 891 894 897 900 903 906 909 912 915 918 921 924 927 930 933 936 939 942 945 948 951 954 957 960 963 966 969 972 975 978 981 984 987 990 993 996 999 1002 1005 1008 1011 1014 1017 1020 1023 1026 1029 1032 1035 1038 1041 1044 1047 1050 1053 1056 1059 1062 1065 1068 1071 1074 1077 1080 1083 1086 1089 1092 1095 1098 1101 1104 1107 1110 1113 1116 1119 1122 1125 1128 1131 1134 1137 1140 1143 1146 1149 1152 1155 1158 1161 1164 1167 1170 1173 1176 1179 1182 1185 1188 1191 1194 1197 1200 1203 1206 1209 1212 1215 1218 1221 1224 1227 1230 1233 1236 1239 1242 1245 1248 1251 1254 1257 1260 1263 1266 1269 1272 1275 1278 1281 1284 1287 1290 1293 1296 1299 1302 1305 1308 1311 1314 1317 1320 1323 1326 1329 1332 1335 1338 1341 1344 1347 1350 1353 1356 1359 1362 1365 1368 1371 1374 1377 1380 1383 1386 1389 1392 1395 1398 1401 1404 1407 1410 1413 1416 1419 1422 1425 1428 1431 1434 1437 1440 1443 1446 1449 1452 1455 1458 1461 1464 1467 1470 1473 1476 1479 1482 1485 1488 1491 1494 1497 1500 1503 1506 1509 1512 1515 1518 1521 1524 1527 1530 1533 1536 1539 1542 1545 1548 1551 1554 1557 1560 1563 1566 1569 1572 1575 1578 1581 1584 1587 1590 1593 1596 1599 1602 1605 1608 1611 1614 1617 1620 1623 1626 1629 1632 1635 1638 1641 1644 1647 1650 1653 1656 1659 1662 1665 1668 1671 1674 1677 1680 1683 1686 1689 1692 1695 1698 1701 1704 1707 1710 1713 1716 1719 1722 1725 1728 1731 1734 1737 1740 1743 1746 1749 1752 1755 1758 1761 1764 1767 1770 1773 1776 1779 1782 1785 1788 1791 1794 1797 1800 1803 1806 1809 1812 1815 1818 1821 1824 1827 1830 1833 1836 1839 1842 1845 1848 1851 1854 1857 1860 1863 1866 1869 1872 1875 1878 1881 1884 1887 1890 1893 1896 1899 1902 1905 1908 1911 1914 1917 1920 1923 1926 1929 1932 1935 1938 1941 1944 1947 1950 1953 1956 1959 1962 1965 1968 1971 1974 1977 1980 1983 1986 1989 1992 1995 1998 2001 2004 2007 2010 2013 2016 2019 2022 2025 2028 2031 2034 2037 2040 2043 2046 2049 2052 2055 2058 2061 2064 2067 2070 2073 2076 2079 2082 2085 2088 2091 2094 2097 2100 2103 2106 2109 2112 2115 2118 2121 2124 2127 2130 2133 2136 2139 2142 2145 2148 2151 2154 2157 2160 2163 2166 2169 2172 2175 2178 2181 2184 2187 2190 2193 2196 2199 2202 2205 2208 2211 2214 2217 2220 2223 2226 2229 2232 2235 2238 2241 2244 2247 2250 2253 2256 2259 2262 2265 2268 2271 2274 2277 2280 2283 2286 2289 2292 2295 2298 2301 2304 2307 2310 2313 2316 2319 2322 2325 2328 2331 2334 2337 2340 2343 2346 2349 2352 2355 2358 2361 2364 2367 2370 2373 2376 2379 2382 2385 2388 2391 2394 2397 2400 2403 2406 2409 2412 2415 2418 2421 2424 2427 2430 2433 2436 2439 2442 2445 2448 2451 2454 2457 2460 2463 2466 2469 2472 2475 2478 2481 2484 2487 2490 2493 2496 2499 2502 2505 2508 2511 2514 2517 2520 2523 2526 2529 2532 2535 2538 2541 2544 2547 2550 2553 2556 2559 2562 2565 2568 2571 2574 2577 2580 2583 2586 2589 2592 2595 2598 2601 2604 2607 2610 2613 2616 2619 2622 2625 2628 2631 2634 2637 2640 2643 2646 2649 2652 2655 2658 2661 2664 2667 2670 2673 2676 2679 2682 2685 2688 2691 2694 2697 2700 2703 2706 2709 2712 2715 2718 2721 2724 2727 2730 2733 2736 2739 2742 2745 2748 2751 2754 2757 2760 2763 2766 2769 2772 2775 2778 2781 2784 2787 2790 2793 2796 2799 2802 2805 2808 2811 2814 2817 2820 2823 2826 2829 2832 2835 2838 2841 2844 2847 2850 2853 2856 2859 2862 2865 2868 2871 2874 2877 2880 2883 2886 2889 2892 2895 2898 2901 2904 2907 2910 2913 2916 2919 2922 2925 2928 2931 2934 2937 2940 2943 2946 2949 2952 2955 2958 2961 2964 2967 2970 2973 2976 2979 2982 2985 2988 2991 2994 2997 3000	<i>110m</i>														

NOTES:	LOGGED: <i>M. Gellan</i>	DRILLER:
	CHECKED:	DRILL TYPE:

ENGINEERING GEOLOGY CORP. OUTLOGS, ROCKLOGS, RFL, ENGINEERING GEOLOGY CORP. BOT. 8/8/08

# ENGINEERING GEOLOGY LTD

ROCK LOG

DRILLHOLE No.: DH  
0045797  
PAGE 1 OF 1  
Job No.: T1007

PROJECT: Tipperary Dam Investigation  
LOCATION: Tipperary Creek  
CO-ORDINATES: 72754 / 13081

RL GROUND: 555  
DATUM: Macraes Grid  
ORIENTATION: -90 -> 360

HOLE STARTED: 12/6/10  
HOLE FINISHED: 13/6/10

GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (CENTIMETERS)	DEPTH (M)	GRAPHIC LOG	DEFECT DESCRIPTION & Additional Observations	Drilling & Testing																
						WEATHERING	ROCK STRENGTH (MPa)	PT LOADINGS (kPa)	COORE LOSS %	DATE / DEPTH	DEPTH (M)	ROD (m)	SAMPLES	WATER	WATER LOSS %	FIELD TESTS						
	Dark grey to black lignite at top weathered coarse grained fractured schist fractures clay filled. Part breaks flat parallel	0			Sol - 25°																	
	Red weathered laminated spa. Highly fissile with rough zones with flat slip & jointing.	1.00			crust zones joint - 65°																	
	Zone of crushed rock & clay pug. 'shear zone' 1.4m to schist fragment fragments spa.	2.00			Shear - 20°																	
	Slight weathered. Red clay spa. Minor folding where spaced fracture. minor folding & bulging etc.	3.00			Sol - 25°																	0.40 mt
	Highly sheared patric schist. All zones of pug & crush material. Formated schist at margins	4.00			crust zone clay gouge (pug) interst schist Shear - 20°																	0.35 mt
	Fragmented schist	5.00																				
	Sp. has within grey siltstone bedding and leaching. 78-82% crushed zones of clay silt.	6.00			Sol - 20°																	
	Sp. - Spa, coarse mass texture.	7.00			Sol - 35°																	

NOTES: Badly broken ground

LOGGED: P. Jones  
CHECKED:

DRILLER: McNeil's  
DRILL TYPE: WDR650 HQ

ENGINEERING GEOLOGY COREHOLE LOG ROCK LOG (S) ENGINEERING GEOLOGY CORES (S)



PROJECT: <b>TIP DAM</b> LOCATION: CO-ORDINATES:	RL GROUND: DATUM: ORIENTATION:	HOLE STARTED: 10 HOLE FINISHED: 20
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DEPTH (m)	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH REL. GRAPHIC LOG	ROCK DEFECTS DEFECT DESCRIPTION & Additional Observations	FRACTURE LOG	WEATHERING	ROCK STRENGTH	PT LOADS / TEST (MPa)	% CORE LOSS %	Drilling & Testing				FIELD TESTS	
									DATE / DEPTH	LOG LENGTH	LOG (m)	SAMPLES		WATER
0	Spr - Spc - Lenses etc.		extensive cherting.						10.5	0	0	0	0	0-2 core loss.
1.79	Shear zone clay gouge / highly altered spc.		50° joint.						11.6	0	0	0	0	0-2 core loss.
14.13	Under Access and Formwork S.P.S. Contains 6 50mm Sections water		30° bl.  30° bl.						12.28	0	0	0	0	0-2 core loss.
17.94	Fine Grained Spc - Med. Fold. Well Anisot. Med. Fracturing		10° joint. 20° bl.						13.5	0	0	0	0	0-2 core loss.
19.5	" Ditto -		C-2.  C-2. C-2. C-2. C-2. C-2. C-2.						14.1	0	0	0	0	0-2 core loss.
20.2			50°						15.6	0	0	0	0	0-2 core loss.

NOTES:	LOGGED: CHECKED:	DRILLER: DRILL TYPE:
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ENGINEERING GEOLOGY CONTROL LOG PROGRAM.GPJ (ENGINEERING GEOLOGY CORED.BIT 8/9/99)

# ENGINEERING GEOLOGY LTD

ROCK LOG

DRILLHOLE No.: CH

PAGE 1 OF 1 5197

Job No.: T1007

PROJECT:  
LOCATION:  
CO-ORDINATES:

RL GROUND:  
DATUM:  
ORIENTATION:

HOLE STARTED: 20  
HOLE FINISHED: 30.12

Core Description			Rock Defects				Drilling & Testing				
SECTIONAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEFECT DESCRIPTION & Additional Observations	MOISTURE % (wet)	WEATHERING	ROCK STRENGTH PT LOADINGS (test along)	PORE LOSS %	DRILL DEPTH (core diameter)	ROD (%)	SAMPLING WATER SUBSTITUTION	FIELD TESTS
	DATO - 20.11	0	30° joint. C.Z.								
	CLAY GRAVEL / SANDY ALTERED SPE. SOME FOLIATION SUB-VERTICAL - SOME CRUSH QZ INTERLOCKED.	1	FAULT DIP 70° N FOR DIRECTION.					0.77			
		2	fol. sub-vert.					1.06			
		3						0.84			
	23.47 A ground spa. bit cut by shar above, stepped	4	fol ~ 50°					1.03			0.2 m test
	24.15 Coarse-grained S.P.A. cut by numerous shears. CLAY ZONES → CLAY GRAVEL.	5	70° C.Z. common SHEAR ZONES - INTACT					0			
	MINOR FOLDING IN INTACT ROCK. LOCAL FOLIATION SPREADING.	6	- SHEAR ZONE CZ AND CLAY GRAVEL NOT LARGELY CHANGING FOLIATION DIP.					0			0.1 cm
	FINE-MEDIUM GRAINED SPE. BROADENED SHEAR ZONES, 30-60% CLAY INFILL.	7	ROCK PIECES					0			
		8						0			
		9						0			
		10	INTACT, MOD SAND SPE.					0			

NOTES:

30.12

LOGGED:  
CHECKED:

DRILLER:  
DRILL TYPE:

# ENGINEERING GEOLOGY LTD

ROCK LOG

DRILLHOLE No: DH

PAGE 1 OF 1 2015198

JOB No: TT006

PROJECT: Tipperary Dam Investigation  
 LOCATION: Tipperary Creek  
 CO-ORDINATES: 72936/12768

RL GROUND: 538  
 DATUM: Malpas Grid  
 ORIENTATION: -90 → 360

HOLE STARTED: 14/6/10  
 HOLE FINISHED: 15/6/10

Core Description		Rock Defects		Drilling & Testing									
DEVELOPMENT UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (M)	GRAPHIC LOG	DEFECT DESCRIPTION & Mitigation Observations	FRACTURE LOG	WEATHERING	ROCK STRENGTH P1 LONGUACS TEST (MPa)	CORE LOSS %	DATE / DEPTH CORE PENETRATION	RSD (%)	SAMPLES	WATER	FIELD TESTS
	<p>Lamin with schist fragments</p> <p>Strong to moderately weathered strongly foliated fine grained gneiss with closely spaced cleaves and crush zones</p> <p>Most crush zones and joints have strong limonite staining and look to have carried water</p> <p>Core very fissile on foliation due to weathering</p>	0		Crush zone 2cm		WV							
		1											
		2		<p>Rock has lots of weathered out pitting and increased porosity</p> <p>Fault @ 70° 2cm gouge</p> <p>Shear zone 70° 3cm</p>		Moderate							
		3		<p>Fault 1.5cm rock fragments and clay</p> <p>Multiple joints and high angles. All have Fe staining</p>		Strong							
		4		Crush zone 6cm									
		5		<p>Quartz vein with fractures staining Fe staining</p> <p>Shear zone @ 70°</p>		Moderate							
		6		<p>Fault - pug 5cm</p> <p>Strongly cleaved</p> <p>Crush zone</p>		Weak							
		7		Strongly weathered and friable									
		8		Crush zone 2cm									
		9		Strongly cleaved and friable zone									
		10											

NOTES: Deep weathering profile and badly broken ground.

LOGGED: M Gellan  
 CHECKED:

DRILLER: M Deil  
 DRILL TYPE: UDR650 HQ

# ENGINEERING GEOLOGY LTD

ROCK LOG

DRILLHOLE No.: DH

PAGE 1 OF 1 DDH 5198

Job No.: T1006

PROJECT: Tipperary Dam Investigation  
 LOCATION: Tipperary Creek  
 CO-ORDINATES:

RL GROUND:  
 DATUM:  
 ORIENTATION:

HOLE STARTED:  
 HOLE FINISHED:

Core Description		Rock Defects		Drilling & Testing										
ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEFECT DESCRIPTION & Additional Observations	WEATHERING	ROCK STRENGTH	PT LOADS TEST (MPa)	1 CORE LOSS %	2 CORE LOSS %	DATE / DEPTH	CORE LENGTH	MOISTURE	SAMPLES	WATER	WATER	FIELD TESTS
Strongly weathered coarse grained, strongly sheared semi-pyramidal	0 - 7.1	Crust zone @ 40°												
Strong clay and FeOe alteration on delamination makes soil very friable with drilling induced crust zones	7.1 - 12													
widely spaced faults and crust zones.	12 - 13													
	13 - 14													
	14 - 15													
	15 - 16	Crust zone filled with quartz fragments												
	16 - 17	F @ 45°, planes, rough, quartz												
Core loss	17 - 18	Fault zone												
As above	18 - 19	Rock fragments and clay.												

ENGINEERING GEOLOGY COREHOLE LOG ROCK LOG 004 ENGINEERING GEOLOGY CORP. 01/11/06

NOTES:

LOGGED:  
 CHECKED:

DRILLER:  
 DRILL TYPE:

# ENGINEERING GEOLOGY LTD

ROCK LOG

DRILLHOLE No.: DH

PAGE 1 OF 1 5199

Job No:

PROJECT: *Top Conn*  
 LOCATION: *Tipperary Creek*  
 CO-ORDINATES:  
*73010135 12441437*

RL GROUND: *527.249*  
 DATUM:  
 ORIENTATION: *90*

HOLE STARTED: *16/08/10*  
 HOLE FINISHED: *22/08/10*

Core Description		Rock Defects		Drilling & Testing									
DEPTH (M)	ROCK / SOIL MATERIAL DESCRIPTION	EFFECT DESCRIPTION (As per core description)	FRACURE TYPE (e.g. shear, joint, etc.)	WEATHERING ROCK STRENGTH	PT LOAD LOG TESTS (kPa)	LOGS (%)	DATE / DEPTH (e.g. 0.10 / 0.10)	REMARKS	SAMPLES NUMBER	TESTS NUMBER	FIELD TESTS		
0.24	<i>clay soil</i>			<i>NW</i>	<i>NW</i>						<i>0.5 test</i>		
1.0	<i>course grained spe highly weathered &amp; weak</i>	<i>D=20</i>		<i>NW</i>	<i>NW</i>						<i>0.78</i>		
2.0	<i>fine grained spe med filling</i>	<i>fol 50°</i>		<i>NW</i>	<i>NW</i>						<i>1.70</i>		
2.50	<i>fine grained spe med weather &amp; weak</i>	<i>fol 15°</i> <i>crush zone</i>		<i>NW</i>	<i>NW</i>						<i>0.2 test</i>		
2.90				<i>NW</i>	<i>NW</i>						<i>2.50</i>		
3.0	<i>fine grained spe to clay gauge weathered &amp; weak</i>	<i>fol 15°</i> <i>gauge</i>		<i>NW</i>	<i>NW</i>						<i>2.90</i>		
4.0	<i>fine grained spe interspersed with multiple minor crush &amp; gauge shear zones fol minor</i>	<i>joint 75°</i> <i>crush zone clay</i>		<i>NW</i>	<i>NW</i>						<i>0.1 test</i>		
5.0	<i>fine grained spe to clay med to weak filling highly frac</i>	<i>clay gauge</i>		<i>NW</i>	<i>NW</i>						<i>2.50</i>		
6.0		<i>fol 50°-20°</i>		<i>NW</i>	<i>NW</i>						<i>0.09</i>		
7.0				<i>NW</i>	<i>NW</i>						<i>4.30</i>		
8.0				<i>NW</i>	<i>NW</i>						<i>0.1 test</i>		
9.0	<i>fine med grained spe med fine occasional joints multiple minor shear consisting of gauge &amp; etc</i>	<i>fol 50°</i>		<i>NW</i>	<i>NW</i>						<i>0.50</i>		
10.0				<i>NW</i>	<i>NW</i>						<i>9.90</i>		

NOTES:

LOGGED:  
CHECKED:

DRILLER:  
DRILL TYPE:

ENGINEERING GEOLOGY CORRECTION LOG: ROCK LOG (GFI) ENGINEERING GEOLOGY CORRECTION LOG

# ENGINEERING GEOLOGY LTD

ROCK LOG

DRILLHOLE No.: CH  
PAGE 1 OF 1 *5189*  
Job No.:

PROJECT: *Tipperary Dam*  
LOCATION: *Tipperary Creek*  
CO-ORDINATES:

RL GROUND:  
DATUM:  
ORIENTATION:

HOLE STARTED: *10.0*  
HOLE FINISHED: *20.0*

Core Description			Rock Defects				Drilling & Testing						
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	SPLIT DESCRIPTION (Additional Comments)	STRUCTURE LOG	WEATHERING	ROCK STRATIGRAPHY	FT LOGS/US TEST APPR	CORE LOGS	DATE / DEPTH CORRECTIONS	RQD (%)	SAMP. NO.	WATER FLOW	FIELD TESTS
		0											
		1											
		12.20											
		2											
		3											
		4											
		5											
		6											
		7											
		8											
		9											
		10											

NOTES:

LOGGED:  
CHECKED:

DRILLER:  
DRILL TYPE:

ENGINEERING GEOLOGY COREHOLE LOG RODDING NO. ENGINEERING GEOLOGY CORED.MY 2008

# ENGINEERING GEOLOGY LTD

## ROCK LOG

DRILLHOLE No: DH

PAGE 1 OF 1 519

Job No:

PROJECT: *Tipperary Dam*  
 LOCATION: *Tipperary Creek*  
 CO-ORDINATES:

RL GROUND:  
 DATUM:  
 ORIENTATION:

HOLE STARTED: *20.0*  
 HOLE FINISHED: *30.0*

Core Description		Rock Defects		Drilling & Testing													
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (M)	DEPTH (RL)	GRAVIMETRIC LOG	DEFECT DESCRIPTION & Additional Observations	RACTURE LOG Fracture per m core	WEIGHTING	ROCK STRENGTH	PT LOAD/LOG TEST (MPa)	% CORE LOSS %	DATE / DEPTH	CORE LENGTH (M)	ROD NO	SAMPLES	WATER	FIELD TESTS	
																	DEPTH (M)
	<i>See highly weathered to clay. weak</i>	0			<i>fol - 30°</i>												20.05
	<i>fine grained spe red. highly folded gas competent red weathered with numerous joints &amp; some minor fragmentation. fol varies from ~ 50° to 30° from 23.50.</i>	1			<i>fol - 50°</i>												21.22
		2			<i>fol - 50°</i>												21.75
		3															22.72
		4															23.20
		5			<i>fol - 30°</i>												23.50
	<i>fine grained spe slightly folded &amp; slightly weathered. Good along with some jointing &amp; rock fracturing.</i>	6			<i>fol - 35°</i>												25.92
		7															26.76
		8															27.49
		9			<i>fol - 30°</i>												28.65
		10			<i>fol - 30°</i>												29.12
	<i>See over</i>				<i>crush zone subject to clay infill</i>												0.1 lost

NOTES:

LOGGED:  
CHECKED:

DRILLER:  
DRILL TYPE:

ENGINEERING GEOLOGY COREHOLE LOG ROCK LOG.GPJ ENGINEERING GEOLOGY CORE LOG 001 8829

# ENGINEERING GEOLOGY LTD

## ROCK LOG

DRILLHOLE No: DH-  
PAGE 1 OF 1 5199  
Job No.:

PROJECT: *Tipparyy Dam*  
LOCATION: *Tipparyy Creek*  
CO-ORDINATES:

RL GROUND:  
DATUM:  
ORIENTATION:

HOLE STARTED: 30.0  
HOLE FINISHED: 40.0

Core Description			Rock Defects		Drilling & Testing								
LITHOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (meters)	DEPTH (ft)	GRAPHIC LOG	DEFECT DESCRIPTION (As defined in Specification)	SOUNDING LOG	WEATHERING	ROCK STRENGTH	PT LOAD LOSS TEST (MPa)	CORE LOSS %	DATE / DEPTH	SAMPLER	FIELD TESTS
	<i>fin - red gran spa - spa with thin mica veins &amp; mod - high weathering red folding &amp; various joints, fol. considered @ ~ 30°</i>	0											30.14
		1											31.10
		2											32.69
		3											33.70
		4											33.64
	<i>mod - coarse grained spa. strong compact rock. occasional joints &amp; minor fol but it shows along outcrop. mod - highly folded with fol at 30-35° slight weathering</i>	5											35.14
		6											36.55
		7											37.70
		8											39.14

ENGINEERING GEOLOGY COMPANY LTD. ENGINEERING GEOLOGY CORP. "T" 5199

NOTES:

LOGGED:  
CHECKED:

DRILLER:  
DRILL TYPE:



# ENGINEERING GEOLOGY LTD

## ROCK LOG

DRILLHOLE No.: DH

PAGE 1 OF 1

5199

Job No.:

PROJECT: *Tipperary Dam*  
 LOCATION: *Tipperary Creek*  
 CO ORDINATES:

RL GROUND:  
 DATUM:  
 ORIENTATION:

HOLE STARTED: *60.0*  
 HOLE FINISHED: *59.13*  
*COH*

Core Description			Rock Defects		Drilling & Testing									
DEPTH (m)	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEPTH (m)	DIRECT DESCRIPTION A. Additional Observations	WEATHERING	ROCK STRENGTH	PT LOADINGS TEST (MPa)	CORE LOSS %	DATE / DEPTH	ROD (m)	SAMPLES	WATER	FIELD TESTS	
														DEPTH (m)
0	<p>med - coarse grained                      spa. Strong competent                      rock occasional                      joints &amp; minor fol with                      shear clay infilled                      med - highly foliated                      fol. 30-35°                      slight weathering                      consistent to 49.50</p>	0											60.70	
1				jt										
2					fol sub shear clay jt				1.51	19				62.21
3					jt				0.91	19				63.12
4									1.00	63				64.12
5									1.66	63				65.89
6									1.19	52				66.77
7									1.63	50				68.02
8					disrupted				1.72	30				69.55
10														
<p>NOTES: <i>50.13</i> <i>COH</i></p>					<p>LOGGED: CHECKED:</p>			<p>DRILLER: DRILL TYPE:</p>						

ENGINEERING GEOLOGY CORE LOG ROCK LOG GPJ ENGINEERING GEOLOGY CORE LOG BOT. 8/8/99





# ENGINEERING GEOLOGY LTD

ROCK LOG

DRILLHOLE No.: CH  
PAGE # OF 1  
Job No.:

PROJECT: TD 21.1  
LOCATION: UPPER TIP CORNER  
CO ORDINATES:

RL GROUND:  
DATUM:  
ORIENTATION:

HOLE STARTED:  
HOLE FINISHED:

Core Description			Rock Defects				Drilling & Testing									
SECTIONAL VIEW	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	DEFECT DESCRIPTION & Additional Observations		WEATHERING	ROCK STRATIGRAPHY	PT LOAD/SLUR TEST DATA	CORE LOSS %	DATE / DEPTH	CORE LENGTH	ROD NO.	SAMPLES	WATER LOGS	FIELD TESTS
	Coarse Grained Sp/Pl. Moderately Disintegrated. Heavy Low-magnesian + weak	0				Head - weathered										0.1 GWT
		1				70° STAINED										20.60
		2				cut 70°										21.37
		3				cut 70°										0.1 GWT
		4				cut 70°										21.97
		5				cut 70°										22.67
		6				cut 70°										0.1 GWT
		7				cut 70°										27.60
	27.96	8				cut 70°										23.94
	Fine Grained Sp. Moderately Disintegrated. Moderately to weak schistosity	9				cut 70°										24.70
		10				cut 70°										25.94
		11				cut 70°										26.31
		12				cut 70°										27.06
	27.66	13				cut 70°										28.36
	Fine Grained Sp. red bedding various joints red weathered to unweathered	14				cut 70°										29.31

ENGINEERING GEOLOGY CORHOLE LOG, ROCK LOG, ENGINEERING GEOLOGY CORHOLE LOG 21.1

NOTES: 30.36 EOH

LOGGED: \_\_\_\_\_  
CHECKED: \_\_\_\_\_  
DRILLER: \_\_\_\_\_  
DRILL TYPE: \_\_\_\_\_

# ENGINEERING GEOLOGY LTD

## ROCK LOG

DRILLHOLE No: DH

PAGE 1 OF 1 DDHS201

Job No.: TT001

PROJECT: Tipperary Ck Dam Investigation  
 LOCATION: Tipperary Ck  
 CO-ORDINATES: 72 863 / 12032

RL GROUND: 510  
 DATUM: Macraes Grid  
 ORIENTATION: -90 → 360

HOLE STARTED:  
 HOLE FINISHED:

Core Description			Rock Defects		Drilling & Testing										
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	DEFECT DESCRIPTION (As observed in core)	WEATHERING LOG Texture on core	WEATHERING ROCK STRENGTH	PT LOAD/SLUC TEST (MPa)	% CORE LOSS %	DATE / DEPTH CORE SAMPLED	ROD (m)	SAMPLES	WATER	SLURRY LOSS %	FIELD TESTS
	Clay loam	0					Intense								
	Strongly weathered grading into moderately weathered fine grained sandstone with widely spaced high angle joints.	0.5			Jt @ 40° planar, Fe stained		Strong	W		0.92 HG	1.17 HG				
	Core breaks dominantly drilling breaks on foliation.	1.5			Jt @ 20° stepped, rough Fe stained										
	Foliation mostly planar 60-70° and tightly folded in places	2.5					moderate			1.34 HG					
		3.5								1.28 HG					
		4.5								1.34 HG					
		5.5			Jt @ 10° undulating, rough, Fe stained					1.04 HG					
		6.5								0.84 HG					
		7.5			Jt @ 40° undulating, rough, quartz mft, Fe staining		Strong								
		8.5			Jt @ 50° undulating, quartz mft, Fe staining										
		9.5			Jt @ 20° planar rough, Fe-clay mft										

NOTES: Hole not deeply weathered and mostly in competent rock.

LOGGED:  
 CHECKED:

DRILLER:  
 DRILL TYPE:

ENGINEERING GEOLOGY COREHOLE LOGS ROCKLOG.BTU ENGINEERING GEOLOGY COVERED/NOT COVERED

# ENGINEERING GEOLOGY LTD

ROCK LOG

DRILLHOLE No.: DH  
PAGE 1 OF 1 DDH5201  
Job No.: T1001

PROJECT: Tipperary Dam Investigation  
LOCATION: Tipperary Creek  
CO-ORDINATES: 72863 / 12032

RL GROUND: 510  
DATUM: Macraes Grid  
ORIENTATION: -90 → 360

HOLE STARTED: 25/6/2010  
HOLE FINISHED: 27/6/2010

Core Description			Rock Defects				Drilling & Testing						
DEPTH (m)	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEFECT DESCRIPTION & Additional Observations	WEATHERING	ROCK STRENGTH	PT. LOAD LOSS TEST (MPa)	PORE LOSS %	DATE / DEPTH	CORE LENGTH (m)	HEAD (m)	SAMPLES	WATER	FIELD TESTS
0	Mostly unweathered fine grained semi pelitic w/lt foliation approx @ 60°.												
1	Joints widely spaced w/lt minor Fe staining												
2	Most core breaks on foliation from drilling		Jt @ 60°, planar, rough, Fe staining	weak				1.5	1.0	78			
3			Jt @ 20°, planar, rough, Fe staining	M.S				1.5	1.0	75			
4			Jt @ 60°, planar, rough, Fe staining	very weak				1.5	1.0	75			
5								1.5	1.0	77			
6								1.5	1.0	75			
7			Jt @ 20°, planar, rough, quartz & pyrite infill	unweathered				1.48	1.0	85			
8								1.5	1.0	83			
9			Jt @ 30°, undulating, rough, Fe staining					1.55	1.0	92			

NOTES: Drilled mostly in very competent rock with shallow weathering profile

LOGGED: M Gollin  
CHECKED:

DRILLER: M Deits  
DRILL TYPE: KDR 650-HA

ENGINEERING GEOLOGY COREHOLE LOG ROCK LOGS ENGINEERING GEOLOGY LTD 2008

PROJECT: <i>Tipperary Dam Investigation</i> LOCATION: <i>Tipperary Cracks</i> CO-ORDINATES:	RL GROUND: DATUM: ORIENTATION:	HOLE STARTED: HOLE FINISHED:
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GEOLOGICAL UNIT	Core Description	Rock Defects	Drilling & Testing										
ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEPTH (m)	DEPTH (m)	DEFECT DESCRIPTION & Additional Observations	FRACTURE LOG Trend in core	WEATHERED ROCK	ROCK STRENGTH PT LOAD/SLUR TEST (MPa)	% CORE LOSS	DATE / DEPTH CORE SAMPLED	CORE LENGTH ROD (m)	SAMPLES	WATER WATER LOSS %	FIELD TESTS
Unsectored fine grained sandstone with minor folding, widely spaced joints.  Rare coal zones 4-5cm with fault  Most breaks on foliation  Foliation varies between 70-40°	19			Jt @ 10° lean, rough quartz infill									
	21			Jt @ 10° undulating, rough quartz pyrite infill					1.5 HQ				
	22			Jt @ 50° undulating, rough pyrite infill					3.8 HQ				
	23			Jt @ 30° planar, rough rock fragments infill									
	23			Jt @ 10° undulating, rough quartz infill					1.27 HQ				
	24			Crush zone 20cm Fault @ 70° undulating, rough, clay gouge 5cm					1.06 HQ				
	25			Broken core									
	26								1.5 HQ				
	27				Jt @ 15° undulating, rough pyrite infill				1.22 HQ				
	28												
29				Jt @ 15° undulating, rough quartz-pyrite infill				1.17 HQ					

NOTES:	LOGGED: CHECKED:	DRILLER: DRILL TYPE:
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ENGINEERING GEOLOGY CONSULTANTS LTD. 10000/05 (IP) ENGINEERING GEOLOGY CONSULTANTS LTD. 10000/05

# ENGINEERING GEOLOGY LTD

ROCK LOG

DRILLHOLE No.: DH

PAGE 1 OF 1 DDH5201

Job No.: T1001

PROJECT: Tipperary Dam Investigation  
 LOCATION: Tipperary Creek  
 CO-ORDINATES:

RL GROUND:  
 DATUM:  
 ORIENTATION:

HOLE STARTED:  
 HOLE FINISHED:

Core Description			Rock Defects		Drilling & Testing									
GEOLOGICAL LAY	ROCK/SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEPTN/RL	GRAPHIC LOG	DEFECT DESCRIPTION & Additional Observations	SPLITTING LOG	WEATHERING	ROCK STRENGTH	PT LOAD LOSS TEST (MPa)	2-D CORE LOSS %	DATE (DEPTH) (m)	SAMPLER	WATER	FIELD TESTS
	Fine grained unweathered red terrigenous pelite with moderate folding Foliation varies from 70-0° Core breaks mostly on foliation related to drilling Joints mostly closed with quartz and/or pyrite infill	0												
		1			St @ 30°, undulating, rough pyrite infill						1.5 HQ			
		2			St @ 15°, undulating, rough pyrite infill						1.5 HQ			
		3			J @ 30° closed, quartz & pyrite infill		MS				1.5 HQ			
		4			J @ 20°, undulating, rough pyrite infill						1.5 HQ			
		5									1.5 HQ			
		6									1.5 HQ			
		7									1.5 HQ			
		8									1.5 HQ			
		9									1.5 HQ			
		10									1.5 HQ			
		11									1.5 HQ			
		12									1.5 HQ			
		13									1.5 HQ			
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		48									1.5 HQ			
		49									1.5 HQ			
		50									1.5 HQ			

ENGINEERING GEOLOGY COREHOLE LOG, ROCK LOG, GRAV. ENGINEERING GEOLOGY CORE LOG, 01/01/00

NOTES:

LOGGED: M. Gullen  
 CHECKED:

DRILLER:  
 DRILL TYPE:



PROJECT: Tipperary Dam Investigation LOCATION: Tipperary Creek CO-ORDINATES:	RL GROUND: DATUM: ORIENTATION:	HOLE STARTED: HOLE FINISHED:
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Core Description		Rock Defects		Drilling & Testing											
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (M)	DEPTH (RL)	GRAPHIC LOG	DEFECT DESCRIPTION & Additional Observations	ROAD LOG LOG Pressure per core	WEATHERING	ROCK STRENGTH	PT LOADINGS TEST (MPa)	CORE LOSS %	DATE / DEPTH Core (meters)	ROD (%)	SAMPLES	WATER FLOW	FIELD TESTS
	Unweathered fine grained gently folded, in place moderately cleaved semi pelite  Foliation variable	0	100	0											
		10	90	10											
		20	80	20											
		30	70	30	@ 30, planar, rough, pyrite infill.										
		40	60	40	@ 20, leached, calcite - Fe-CO infill.										
		50	50	50	@ 25, planar, rough, leached quite infill										
	Unweathered coarse grained semi psammite	60	40	60											
		70	30	70											
		80	20	80											
		90	10	90											
		100	0	100											

EOL 50-13m

NOTES:	LOGGED: M Galan CHECKED:	DRILLER: DRILL TYPE:
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ENGINEERING GEOLOGY COREHOLE LOG, ROCK LOG, DRILL LOG, ENGINEERING GEOLOGY CORED, BOTT BILLS

DRILLING LOG		LOCATION:		HOLE No.		Drill Rig Type:	
INSPEC FOR	Length of hole	McNEILL DRILLING CO. LTD		DDH 5199		MCR 650	
TIME	TYPE	Inclination:	Drilling Method	Drilling Dates	Drilling Dates	Drilling Dates	Drilling Dates
Start	Interval	From	To	From	To	From	To
Finish	From	To	To	From	To	From	To
12:30	0.0 - 1.0	Case 100					
	1.0 - 2.0						
	2.0 - 3.0						
	3.0 - 4.0						
	4.0 - 5.0						
	5.0 - 6.0						
	6.0 - 7.0						
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# McNEILL DRILLING CO. LTD

## LOCATION:

Chambers Gulf Drilling Co  
 Location: *Chambers Gulf Drilling Co*

HOLE No. *DPH 5/09*

Drill Rig Type: *WAGCO*

DRILLING LOG INSPECTOR: Driller: <i>J. Thomas</i> TIME	Length of hole:		Interval	Description: Hardness, material, colour	Water Pressure (PSI)	Water Flow (g/min)	Comments Breakdowns etc
	From	To					
Start Finish 7:40 7:45							
8:30 10:45	15.02	15.55	0.53	Case HRB		30	
	6.35	7.75	1.40	Case HRB		27	
	15.25	17.8	2.55	Runway on top of 2nd casing 2-9-1. 14.5 FT to - 15.1			
	17.11	17.51	0.40	Case HRB		29	
	17.51	18.22	0.71	Case HRB		40	
	18.22	19.13	0.91	Case HRB		35	
	19.13	19.77	0.64	Case HRB		52	
	19.77	20.09	0.32	Case HRB		35	
	20.09	21.30	1.21	Case HRB		1.28	
	21.30	21.89	0.59	Case HRB		52	
	21.89	22.52	0.63	Case HRB		1.07	
	22.52	23.05	0.53	Case HRB		1.22	
	23.05	24.53	1.48	Case HRB		1.20	
2:15 4:10	24.53	26.76	2.23	Case HRB		1.93	
4:30							

INSTALLATIONS	CASING: from	to	(in) Diameter	Comments
TESTING (permeability/flow rate)	SCREEN: from	to	(in) Diameter	Comments

see test sheets for data

# MCNEILL DRILLING CO. LTD

## LOCATION:

George Gault Tappan Co  
 Boring

HOLE No.  
 DPH 5199

Detail Rig Type  
 WABCO  
 Sheet of

INSPECTOR Driller: <i>A. Leonard</i>	Length of hole TYPE: Open testing from	Drilling Method : Hole Diameter	DESCRIPTION: Hardness, material, colour	Water Pressure (kPa)	Water Flow (lit/min)	COMMENTS & remarks etc
Start Flush						
2:30	10:30					
	24.76	27.10	Case HD 3			
	27.47	28.65			1.15	
	28.65	29.86			1.57	
	29.15	30.14			1.72	
	30.16	31.16			1.28	
	31.10	32.64			1.50	
	31.64	32.88			1.58	
	32.15	32.75			1.46	
	32.73	33.64			1.89	
	33.64	35.14			1.65	
	35.14	36.55			1.42	
	36.85	37.76			1.31	
	37.76	38.74			1.45	
	38.74	40.26			1.60	
	40.20	41.51			1.55	
	41.51	43.12			1.80	
	43.12	45.08			1.69	
	45.08	46.77			1.30	
	46.77	48.63			1.54	
	48.62	49.90			1.13	
	49.54	50.13			1.58	
6:30						
INSTALLATIONS	CASING: from to	(a) Diameter:	Comments:			
TESTING (number/penetration/flow rate):	SCREEN: from to	(b) Diameter:	Comments:			

see test sheets for data



DRILLING LOG		LOCATION:		HOLE No.		Drill Rig Type:	
INSPECTOR: <i>[Signature]</i>		MCD10 DRILLING CO. LTD		7018520		MCD10	
DATE: 12/20		Inch: 7.62		Sheet 1 of 1			
TYPE: Open boring		(m) Trenching		to (m) Rotary		from (m) to (m)	
SHIFT START DATE: 25/10/10		TIME: 7:00		SHIFT FINISH DATE: 25/10/10		TIME: 17:00	
DESCRIPTION: Hardness, material, colour		W/P 077		Water Pressure (kg/cm <sup>2</sup> )		Water Flow (litres/min)	
Interval		From To		Water Pressure (kg/cm <sup>2</sup> )		Water Flow (litres/min)	
RUN LENGTH		From To		Water Pressure (kg/cm <sup>2</sup> )		Water Flow (litres/min)	
INSTALLATIONS		CASING: From To		Water Pressure (kg/cm <sup>2</sup> )		Water Flow (litres/min)	
TESTING (pore/permability/flow rate)		SCREEN: From To		Water Pressure (kg/cm <sup>2</sup> )		Water Flow (litres/min)	
0:00	7:41	7:41	9:31	Normal	Normal	0.95	0.95-2.5 m/s drilled 1.00
13:20	13:20	13:20	14:51	Normal	Normal	1.02	2.5-5.0 m/s drilled 1.03
	14:51	14:51	16:17	Normal	Normal	1.01	(good) (water test) 2.5-3.5 (200)
	16:17	16:17	18:17	Normal	Normal	0.86	
	18:17	18:17	19:54	Normal	Normal	0.88	
	19:54	19:54	21:28	Normal	Normal	0.74	
	21:28	21:28	22:58	Normal	Normal	0.70	
	22:58	22:58	24:10	Normal	Normal	1.10	
	24:10	24:10	25:48	Normal	Normal	0.61	
	25:48	25:48	27:04	Normal	Normal	0.73	
	27:04	27:04	28:24	Normal	Normal	0.71	
	28:24	28:24	29:51	Normal	Normal	0.70	
	29:51	29:51	31:20	Normal	Normal	0.73	
	31:20	31:20	32:57	Normal	Normal	0.71	
	32:57	32:57	34:27	Normal	Normal	0.69	
	34:27	34:27	35:40	Normal	Normal	0.66	
	35:40	35:40	36:56	Normal	Normal	0.67	
	36:56	36:56	38:24	Normal	Normal	0.65	
	38:24	38:24	39:51	Normal	Normal	0.70	
	39:51	39:51	41:28	Normal	Normal	1.50	

see test sheets for data



# MCNEILL DRILLING CO. LTD

LOCATION:

*Caraca Hill, Trayney Co*

HOLE No.

*PDMS 201*

Drill Rig Type

*WABCO*

DRILLING LOG

INSPECTOR: *M. J. ...*

Driller: *M. J. ...*

TIME

Start Finish

SUN LENGTH

INTERVAL

From To

TYPE: Open hole

Drilling Method

Hole Diameter

Drilling from to (m)

Rotary Trip to (m)

TIME: 7:50

SHIFT FINISH DATE: 25/12/80

TIME: 7:50

DESCRIPTION: Hardness, moisture, colour

Water Pressure (MPa)

Water Flow (litre)

CONVENT IS: Breathings etc

INSTALLATIONS

SCREEN: from to

TESTING (pack permeability/flow rate)

Comments:

Comments:

See test sheets for data

Sheet n°

Water Pressure (MPa)

Water Flow (litre)

CONVENT IS: Breathings etc

INSTALLATIONS

SCREEN: from to

TESTING (pack permeability/flow rate)

Comments:

Comments:

See test sheets for data

Water Pressure (MPa)

Water Flow (litre)

CONVENT IS: Breathings etc

INSTALLATIONS

SCREEN: from to

TESTING (pack permeability/flow rate)

Comments:

Comments:

See test sheets for data

Water Pressure (MPa)

Water Flow (litre)

CONVENT IS: Breathings etc

INSTALLATIONS

SCREEN: from to

TESTING (pack permeability/flow rate)

Comments:

Comments:

See test sheets for data

Water Pressure (MPa)

Water Flow (litre)

CONVENT IS: Breathings etc

INSTALLATIONS

SCREEN: from to

TESTING (pack permeability/flow rate)

Comments:

Comments:

See test sheets for data





# MCNEILL DRILLING CO. LTD

LOCATION:

*Chama Hill Tuguey B*

Drill Rig Type: *42R150*

HOLE No. *2085202*

Drilling Log Inspector: *[Signature]*

Driller: *[Signature]*

TIME

Start Finish

7:50 9:00

10:30

12:00

4:00

Length of hole: TYPE: *Open hole* from to

SHIFT START DATE: *27/12/02* TIME: *7:50*

SHIFT FINISH DATE: *27/12/02* TIME: *4:00*

DESCRIPTION: *Hardness, material, colour*

Drilling Method: *[Blank]*

Hole Diameter: *[Blank]*

INTEVAL

From To

*0 to 10*

*10 to 20*

*20 to 30*

*30 to 40*

*40 to 50*

*50 to 60*

*60 to 70*

*70 to 80*

*80 to 90*

*90 to 100*

*100 to 110*

*110 to 120*

*120 to 130*

*130 to 140*

*140 to 150*

*150 to 160*

*160 to 170*

*170 to 180*

*180 to 190*

*190 to 200*

*200 to 210*

*210 to 220*

*220 to 230*

*230 to 240*

*240 to 250*

*250 to 260*

*260 to 270*

*270 to 280*

*280 to 290*

*290 to 300*

*300 to 310*

*310 to 320*

Inclination: *V*

Tubing from to

(ft) Rotary top to

(m)

Water Pressure (kPa)

Water Flow (l/min)

COMMENTS Breakdowns etc

Sheet of

of

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INSTALLATIONS

CASING: from to

SCREEN: from to

TESTING (position permeability/flow rate):

Comments:

Comments:

# McNEILL DRILLING CO. LTD

## LOCATION:

*Morocco Mini Typing Study*

Drill Rig Type:

*410650*

HOLE No.

*DMO 2*

Drilling Log

INSPECTION

Driller: *M. Harwood*

TIME

Start Finish

*8:00*

*5:30*

Length of hole:

TV/IS Open boring from

to

Drilling Method

(hole diameter)

Interval

From To

TIME: *1:30*

SHIFT START DATE: *24/5/76*

SHIFT FINISH DATE: *24/5/76*

DESCRIPTION: Hardness, material, colour

TIME: *5:30*

Water Pressure (kPa)

Water Flow (litre/m)

COMMENTS

Breakdowns etc

INSTALLATIONS

CASING: from to

SCREEN: from to

TESTING (pneum/pneumability/flow rate):

(m) Diameter

(m) Diameter

Comments:

Comments:

see test sheets for data

# MCNEILL DRILLING CO. LTD

## LOCATION:

*Messers Rd. Tynning Gully*

Drill Rig Type:

*AD650*

HOLE No.

*511702*

Sheet *1* of *1*

DRILLING LOG

INSPECTOR: *M. H. ...*

Driller: *M. H. ...*

TIME

Start Finish

0.00 1.00

Run Length

0.00 1.00

Interval

From To

0.00 1.00

Drilling Method

Hole Diameter

0.00 1.00

TIME: 7.00

SHIFT FINISH DATE: *25/6/10*

DESCRIPTION: Handless, material, colour:

TIME: 7.00

Rotary from to (m):

Water Pressure (kPa)

Water Flow (litres)

COMMENTS Breakdown etc

*Standing hand drilling yard*

*Standard shot pipe*

*" " "*

*" " "*

*Standard 3.15 Coarse*

*Standard 3.15*

*Standard 3.15*

*Standard 3.15*

*Standard 3.15*

*Standard 3.15*

*Standard 3.15*

*Standard 3.15*

*Standard 3.15*

*Standard 3.15*

*Standard 3.15*

*Standard 3.15*

*Standard 3.15*

*Standard 3.15*

INSTALLATIONS

CASING: from to

SCREEN: from to

TESTING (pocket/permeability/flow rate):

(m) Diameter:

(m) Diameter:

Comments:

Comments:

see test sheets for data

# McNEILL DRILLING CO. LTD

LOCATION:

*Mosses Mine Trenching Sully*  
*Barrett Sully*

HOLE No.

*DATT02*

Drill Rig Type:

*4000*

Sheet of

DRILLING LOG

Length of hole: TYPE: Open hole from

Driller: *Johnson* to

TIME: *7:30* to

SHIFT START DATE: *1/5/10* to

SHIFT FINISH DATE: *1/5/10* to

DESCRIPTION: Hardness, material, colour

Inclination: *1* (m) Tubing from

TIME: *7:30* to

TIME: *8:50*

Water Pressure (kPa)

Water Flow (l/min)

COMMENTS Breakdowns etc

INSTALLATIONS

CASING: from

SCRIP: from

TESTING (peak/stability/flow rate)

see test sheets for data

Start Finish

7:30 10:00

3:51 4:52

4:52 5:53

5:53 6:54

6:54 7:55

7:55 8:56

8:56 9:57

9:57 10:58

10:58 11:59

11:59 12:00

12:00 12:01

12:01 12:02

12:02 12:03

12:03 12:04

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12:07 12:08

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# MCNEILL DRILLING CO. LTD

## LOCATION:

*Mcneil Mining - Tropic July*

HOLE No. *DMT 02*  
 Drill Rig Type: *WAGCO*  
 Sheet *1* of *1*

DRILLING LOG INSPECTOR: Driller: <i>M. H. ...</i> TIME	Length of hole:		Inclination:		TIME: 7:30 to (m). Rotary from to (m). SHIFT FINISH DATE: <i>16/10</i> TIME: 5:30	Water Pressure (bars)	Water Flow (litres/min)	COMMENTS Breakdowns etc
	Run Length	Interval	Drilling Method	Hole Diameter				
Start Finish <i>2:36 10:40</i>	From To							
	<i>20.00 21.00</i>	<i>Concrete</i>			<i>Concrete</i>	<i>Concrete</i>	<i>1.50</i>	
	<i>21.00 22.00</i>						<i>1.50</i>	
	<i>22.00 23.00</i>				<i>Some fine gravel, brown, 1.5m thick</i>		<i>1.71</i>	
	<i>23.00 24.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>24.00 25.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>25.00 26.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>26.00 27.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>27.00 28.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>28.00 29.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>29.00 30.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>30.00 31.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>31.00 32.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>32.00 33.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>33.00 34.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>34.00 35.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>35.00 36.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>36.00 37.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>37.00 38.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>38.00 39.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>39.00 40.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>40.00 41.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>41.00 42.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>42.00 43.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>43.00 44.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>44.00 45.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>45.00 46.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>46.00 47.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>47.00 48.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>48.00 49.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>49.00 50.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>50.00 51.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>51.00 52.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>52.00 53.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>53.00 54.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>54.00 55.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>55.00 56.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>56.00 57.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>57.00 58.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>58.00 59.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>59.00 60.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>60.00 61.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>61.00 62.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>62.00 63.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>63.00 64.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>64.00 65.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>65.00 66.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>66.00 67.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>67.00 68.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>68.00 69.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>69.00 70.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>70.00 71.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>71.00 72.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>72.00 73.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>73.00 74.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>74.00 75.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>75.00 76.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>76.00 77.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>77.00 78.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>78.00 79.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>79.00 80.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>80.00 81.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>81.00 82.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>82.00 83.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>83.00 84.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>84.00 85.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>85.00 86.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>86.00 87.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>87.00 88.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>88.00 89.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>89.00 90.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>90.00 91.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>91.00 92.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>92.00 93.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>93.00 94.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>94.00 95.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>95.00 96.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>96.00 97.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>97.00 98.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	
	<i>98.00 99.00</i>				<i>Shale, hard, red</i>		<i>1.56</i>	
	<i>99.00 100.00</i>				<i>Hydraulic fracturing</i>		<i>1.56</i>	

see test sheets for data

# MCNEILL DRILLING CO. LTD

LOCATION:

*Maple Hill - Spring Gulch  
Berkshire*

HOLE No. **DA7702**

Drill R.g. type: **WPCO**

DRILLING LOG INSPECTOR: Driller: <i>M. Howard</i>	Length of hole:		Rotary from to (m)	Water Pressure (kPa)	Water Flow (l/min)	COMMENTS: Breakdowns etc
	TYPE: Open hole	Drilling Method				
TIME	SHIFT START DATE	SHIFT FINISH DATE	TIME	TIME	TIME	TIME
Start Finish	From	To	DESCRIPTION: Hardness, material, colour			
7:00	11:00	11:10	Some RBZ			
	11:10	11:20	Handing pipe to rig to get hole		1.50	
	11:20	11:30	Handing pipe to rig to get hole		1.43	
	11:30	11:40	Handing pipe to rig to get hole		1.68	
	11:40	11:50	Handing pipe to rig to get hole		1.50	
	11:50	12:00	Handing pipe to rig to get hole		1.47	
	12:00	12:10	Handing pipe to rig to get hole		1.86	
	12:10	12:20	Handing pipe to rig to get hole		1.82	
	12:20	12:30	Handing pipe to rig to get hole		1.31	
9:00			Handing pipe to rig to get hole			
8:30			Handing pipe to rig to get hole			
5:30			Handing pipe to rig to get hole			
6:00			Handing pipe to rig to get hole			
INSTALLATIONS	CASING: from	to	(m) Diameter:	Comments:		
TESTING (packer/penetration/flow rate):	SCREEN: from	to	(m) Diameter:	Comments:		

see test sheets for data







# McNEILL DRILLING CO. LTD

## LOCATION:

*Mcneill Place Topping Car*

Drill Rig Type:

*WDM650*

Sheet of

HOLE No.

*PATTICH*

DRILLING LOG	Length of hole:		Inclination:		TIME: (m)		TIME: (m)		COMMENTS Breakdowns etc
	TYPE: Open hole	from to	to	from to	SHIFT START DATE: y/m/d	SHIFT FINISH DATE: y/m/d	Water Pressure (kPa)	Water Flow (l/min)	
INSPECTOR	Driller	SHIFT START DATE: y/m/d	SHIFT FINISH DATE: y/m/d	DESCRIPTION: Hardness, material, colour					
TIME:	RUN LENGTH	INTERVAL	Drilling Method/ Hole Diameter						
Start Finish	From To								
<i>7.50</i>				<i>Turning selected double Bore</i>					
<i>11.50</i>				<i>Supply with 20mm dia. pipe - 10m long</i>					
<i>2.00</i>				<i>20mm dia. pipe - 10m long</i>					
<i>6.00</i>				<i>stand to back of hole</i>					
				<i>stand on ground</i>					
				<i>shy stoppage run for 11.00</i>					
INSTALLATIONS	CASING: from to								
TESTING (packer/penetration/flow rate):	SCREEN: from to								

see test sheets for data



# McNEILL DRILLING CO. LTD

## LOCATION:

Coanara - Gabb Mines Typing & Bearing

Drill Rig Type:

WPK650

HOLE No.

PPM5196

DRILLING LOG	INSPECTOR	Driller:	TIME	Start Finish	R/LN	LENGTH	Length of hole:		Tubing from (m)	Rotary from (m)	Rotary to (m)	Drill Rig Type	Sheet of
							TYPE: Open Hoisting from	to					
				SHIFT START DATE: 10/6/70		SHIFT FINISH DATE: 16/7/70		TIME: 6.30		TIME: 6.30			
DESCRIPTION: Hardness, material colour													
w/ Automatic Flow													
Interval													
From		To		Drilling Method		Hole Diameter		Water Pressure (RPh)		Water Flow (litres)		COMMENTS Breakdowns etc	
7.00	7.45	6.59	6.59	Case H.B.									
		6.59	8.00										
		8.00	9.17										
		9.17	10.30										
		10.30	11.00										
		11.00	12.57										
		12.57	14.00										
		14.00	15.51										
		15.51	17.00										
		17.00	17.00										
		17.00	18.52										
		18.52	20.06										
		20.06	21.62										
		21.62	23.12										
		23.12	24.52										
		24.52	26.12										
		26.12	27.50										
		27.50	29.12										
		29.12	30.62										
3.20	5.00												
INSTALLATIONS				CASING: from		to		(a). Diameter		Comments:			
				SCREEN: from		to		(b). Diameter		Comments:			
TESTING (soaker/permeability/flow rate):													

see test sheets for data

# MCNEILL DRILLING CO. LTD

## LOCATION:

*Quarry Hill, 1/2 way to  
Barrick*

Drill Rig Type

HOLE No.

MDR 650  
Sheet of

MDH 5196  
MDH 5197

DRILLING LOG

INSPECTOR

Driller: *A. McNeill*

TIME

Start Finish

Run Length

Interval

From To

Drilling Method

Hole Diameter

Length of hole

Type: Open Casing

SHIFT START DATE: 11/16/80

SHIFT FINISH DATE: 11/16/80

TIME: 7:00

DESCRIPTION: Hardness, material, colour

Water Pressure (kPa)

Water Flow (litres)

Comments Breakdowns etc

INSTALLATIONS

CASING: from to

SCREEN: from to

TESTING (packer/permability/flow rate):

(m) Diameter:

(m) Diameter:

Comments:

Comments:

see test sheets for data

Start Finish	Run Length	Interval	From To	Drilling Method	Hole Diameter	Length of hole	Type: Open Casing	SHIFT START DATE: 11/16/80	SHIFT FINISH DATE: 11/16/80	TIME: 7:00	DESCRIPTION: Hardness, material, colour	Water Pressure (kPa)	Water Flow (litres)	Comments Breakdowns etc
0:00														
4:30					20515196									
5:30														
6:30														

# MCNEILL DRILLING CO. LTD

## LOCATION:

*Chamman Field*  
*Typing Co*

Drill Rig Type:

MDR650

HOLE No.

DDH 5197

INSPECTION TIME	DRILLER	LENGTH OF RUN	INTERVAL		Drilling Method (Hole Diameter)	Inclination: from to (m)	Tubing from to (m)	Recess from to (m)	SHIFT START DATE: 18/1/10	SHIFT FINISH DATE: 18/1/10	TIME: 6:00	DESCRIPTION: Hardness, material, colour	Water Pressure (kPa)	Water Flow (lit/min)	COMMENTS Breakdowns etc
			From	To											
1:00	1:00														
			2.79	3.53	Open 113										
			3.43	4.17											
			4.17	5.01											
			5.72	5.87											
			5.87	6.80											
			6.80	7.60											
			7.60	8.03											
			8.03	8.49											
			8.49	8.85											
			8.85	9.37											
			9.37	10.33											
			10.33	11.16											
10-5	10-15		11.16	12.74	Run in 113										
			12.74	13.50	Case 113										
			13.50	14.10											
			14.10	14.85											
			14.85	15.88											
			15.88	16.18											
			16.18	16.71											
			16.71	17.22											
1:30	3:30		17.22	17.78	Run in 113										
			17.78	18.38	Case 113										
			18.38	19.60											
			19.60	20.42											
INSTALLATIONS															
SCREEN: from 20.42 to 21.35															
CASE: from 20.42 to 21.35															
SCREEN: from (m) Diameter: to (m) Diameter: Comments: Comments:															
TESTING (pascals/permeability/flow rate):															

see test sheets for data

# McNFILL DRILLING CO. LTD

## LOCATION:

*Chambers Gold Tapping G*

HOLE No.

*PC4577*

Drill Rig Type:

*171650*

Drill Rig Type: *171650*

Sheet *of*

Drilling Method: *Open Hole*

Drilling Method: *Open Hole*

Drilling Method: *Open Hole*

Drilling Method: *Open Hole*

Drilling Method: *Open Hole*

Drilling Method: *Open Hole*

Drilling Method: *Open Hole*

Drilling Method: *Open Hole*

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Drilling Method: *Open Hole*

Drilling Method: *Open Hole*

Drilling Method: *Open Hole*

Drilling Method: *Open Hole*

TYPE: Open hole, from to (m), Rotary from to (m)

TIME: 7:00 SHIFT FINISH DATE: 13/6/70 TIME: 5:50

DESCRIPTION: Hardness, water, color

*W/L 26*

*Soft to 100m*

*Hard to 100m*

*Hard to 100m*

*Hard to 100m*

*Hard to 100m*

*Hard to 100m*

*Hard to 100m*

*Hard to 100m*

*Hard to 100m*

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*Hard to 100m*

*Hard to 100m*

*Hard to 100m*

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*Hard to 100m*

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*Hard to 100m*

INSTALLATIONS

CASING: from to

SCREENS: from to

TESTING (packer/porosity/flow rate)

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# McNEILL DRILLING CO. LTD

## LOCATION:

*Victoria Field Spring A*  
Inclination

Drill Rig Type:

*WMA50*

HOLE No.

*DDH 6198*

DRILLING LOG

INSPECTOR

Driller: *Alan 1980*

TIME

Start Finish

1:00

1:50

2:00

2:56

3:06

3:25

4:00

4:50

5:00

5:50

6:00

6:00

6:00

6:00

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6:00

Length of hole:

TYPE: Open hole

SHIFT START DATE: *16/6/80*

SHIFT FINISH DATE: *16/6/80*

DESCRIPTION: *Headless, material, colour*

TIME: *6:00*

TIME: *6:00*

TIME: *6:00*

TIME: *6:00*

TIME: *6:00*

TIME: *6:00*

TIME: *6:00*

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TIME: *6:00*

TIME: *6:00*

Interval

From To

0.0 0.91

0.91 2.00

2.00 2.56

2.56 3.06

3.06 3.25

3.25 4.00

4.00 4.50

4.50 5.00

5.00 5.50

5.50 6.00

6.00 6.00

6.00 6.00

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6.00 6.00

Water Pressure (kPa)

Water Flow (litre)

90

1.12

0.5

0.5

0.98

0.96

1.22

0.2

1.50

1.46

1.45

1.53

1.54

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Water Pressure (kPa)

Water Flow (litre)

90

1.12

0.5

0.5

0.98

0.96

1.22

0.2

1.50

1.46

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Water Pressure (kPa)

Water Flow (litre)

90

1.12

0.5

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Water Pressure (kPa)

Water Flow (litre)

90

1.12

0.5

0.5

0.98

0.96

1.22

0.2

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# MCNEILL DRILLING CO. LTD

## LOCATION:

*Cemana Gold Tiggony G.*

HOLE No.

*10A's 198*

Drill Rig Type

*C-10R653*

Drilling Log

Inspector

Driller *P. McNeill*

Time

Length of hole

TYPE: Open boring from

Drilling Method

Hole Diameter

Interval

From To

Start Finish

Run Length

Interval

From To

Start Finish

Run Length

Interval

From To

Start Finish

Run Length

Interval

From To

Start Finish

Run Length

Interval

From To

Start Finish

Run Length

Interval

From To

Start Finish

Run Length

Interval

From To

Start Finish

Run Length

Interval

From To

Start Finish

Run Length

Interval

From To

Start Finish

Run Length

Interval

From To

Start Finish

Run Length

Water Pressure (kPa)

Water Flow (l/min)

Comments Breakdown etc

TIME: h:m

to

TIME: h:m

to

TIME: h:m

to

TIME: h:m

to

TIME: h:m

to

TIME: h:m

to

TIME: h:m

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Inclination

(m), Tubing from

to

(m), Rotary from

to

SHIFT FINISH DATE

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DESCRIPTION: Hardness, material, colour

Wk 3-98

Sampling Pump

Gravel Tube

Overhaul

11-00 0150

Overhaul

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11-00 0150

Overhaul

" "

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INSTALLATIONS

CASING: from

SCREEN: from

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TESTING (pore/penetration/flow rate)

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see test sheets for data

*110 w/h*  
*1.20m 180.90 6.36*  
*2.30m 180.73 2.15*  
*0.00*

*15-15*  
*16-30*  
*17-00*  
*18-00*  
*19-00*  
*20-00*  
*21-00*  
*22-00*  
*23-00*  
*24-00*  
*25-00*  
*26-00*  
*27-00*  
*28-00*  
*29-00*  
*30-00*

# MCNEILL DRILLING CO. LTD

## LOCATION:

*Jameson Gold Mining Co.*  
Inclination: *Vertical*

HOLE No. *CDH5195*  
*DPH 5199*

Drill Rig Type: *WALCO*

DRILLING LOG INSPECTOR Driller: <i>A. Thomas</i> TIME: <i>11:00</i>	Length of hole TYPE: Open hole SHIFT START DATE: <i>1/6/00</i>	Interval From To	Drilling Method/ Hole Diameter	DESCRIPTION: Hardness, material, colour	Water Pressure (kPa)	Water Flow (lit/min)	COMMENTS breakdowns etc
Start Finish							
<i>10:30</i>	<i>0.0</i>	<i>0.96</i>	<i>Case AB3</i>	<i>Hydraulic pipe case 1005/105 ENH5199</i>	<i>Round</i>	<i>1.65</i>	<i>13-17 - 1.18 - Out Run</i>
	<i>0.96</i>	<i>1.70</i>		<i>Chert in place</i>		<i>1.67</i>	<i>18-22 15.09 - "</i>
	<i>1.70</i>	<i>2.55</i>		<i>Chert in place</i>		<i>1.80</i>	<i>19.06 - "</i>
	<i>2.55</i>	<i>3.46</i>		<i>Very compacted chert</i>		<i>1.86</i>	<i>20.06 - "</i>
	<i>3.46</i>	<i>4.30</i>		<i>Case 105</i>		<i>1.86</i>	<i>21.06 - "</i>
	<i>4.30</i>	<i>5.17</i>				<i>1.58</i>	<i>Return Pump - 1.58 - Case 105</i>
	<i>5.17</i>	<i>6.07</i>				<i>1.48</i>	<i>(6.30)</i>
	<i>6.07</i>	<i>6.95</i>				<i>1.30</i>	
	<i>6.95</i>	<i>7.85</i>				<i>1.43</i>	
	<i>7.85</i>	<i>8.77</i>				<i>1.40</i>	
	<i>8.77</i>	<i>9.72</i>				<i>1.08</i>	
	<i>9.72</i>	<i>10.66</i>				<i>1.58</i>	
	<i>10.66</i>	<i>11.58</i>				<i>1.57</i>	
	<i>11.58</i>	<i>12.48</i>				<i>1.36</i>	
	<i>12.48</i>	<i>13.46</i>				<i>1.30</i>	
	<i>13.46</i>	<i>14.46</i>				<i>1.50</i>	
	<i>14.46</i>	<i>15.46</i>				<i>1.47</i>	
	<i>15.46</i>	<i>16.46</i>				<i>1.68</i>	
	<i>16.46</i>	<i>17.46</i>				<i>1.50</i>	
	<i>17.46</i>	<i>18.46</i>				<i>1.63</i>	
	<i>18.46</i>	<i>19.46</i>				<i>1.58</i>	
	<i>19.46</i>	<i>20.46</i>				<i>1.31</i>	
	<i>20.46</i>	<i>21.46</i>				<i>1.40</i>	
	<i>21.46</i>	<i>22.46</i>				<i>1.57</i>	
	<i>22.46</i>	<i>23.46</i>				<i>1.40</i>	
	<i>23.46</i>	<i>24.46</i>				<i>1.60</i>	
INSTALLATIONS	CASING: from	to	(m) Diameter:	Comments:			
	SCREEN: from	to	(m) Diameter:	Comments:			
TESTING (packer/permeability/flow rate):							see test sheets for data

# McNEILL DRILLING CO. LTD

## LOCATION:

Incineration: *Chambers Gold Refining Co*

HOLE No. *ADH 5199*

Drill Rig Type: *WDR60*

DRILLING LOG	Length of hole:		Drilling Method	State Diameter	DESCRIPTION: Hardness, material, colour	Water Pressure (kPa)	Water Flow (litre/m)	COMMENTS: Breakdowns etc
	From	To						
INSPECTORY	TYPE: Open boring from		to		(m) Rotary from	to		Sheet of
Driller: <i>McNeill</i>	SHEFT START DATE: <i>17/6/90</i>		SHEFT FINISH DATE: <i>16/10</i>		TIME: <i>6:30</i>			
TIME	RUN LENGTH	INTERVAL						
Start Finish		From To						
7:00	7:05	15.36	<i>15.36</i>					
		15.75	<i>15.75</i>					
8:30	10:05	17.0	<i>17.0</i>					
		17.41	<i>17.41</i>					
		17.51	<i>17.51</i>					
		18.02	<i>18.02</i>					
		19.13	<i>19.13</i>					
		19.77	<i>19.77</i>					
		20.09	<i>20.09</i>					
		21.32	<i>21.32</i>					
		21.59	<i>21.59</i>					
		22.52	<i>22.52</i>					
		23.05	<i>23.05</i>					
		23.55	<i>23.55</i>					
		24.05	<i>24.05</i>					
8:5	8:10	24.53	<i>24.53</i>					
		24.76	<i>24.76</i>					
		25	<i>25</i>					
		25.83	<i>25.83</i>					
		26.76	<i>26.76</i>					
		27	<i>27</i>					
INSTALLATIONS	CASING: from	to	(m) Diameter: Comments:					
TESTING (pocket/penetration/Torque rate):	SCREEN: from	to	(m) Diameter: Comments:					

see test sheets for data