

# **Independent Expert Engineering Investigation and Review Panel**

## **Report on Mount Polley Tailings Storage Facility Breach**

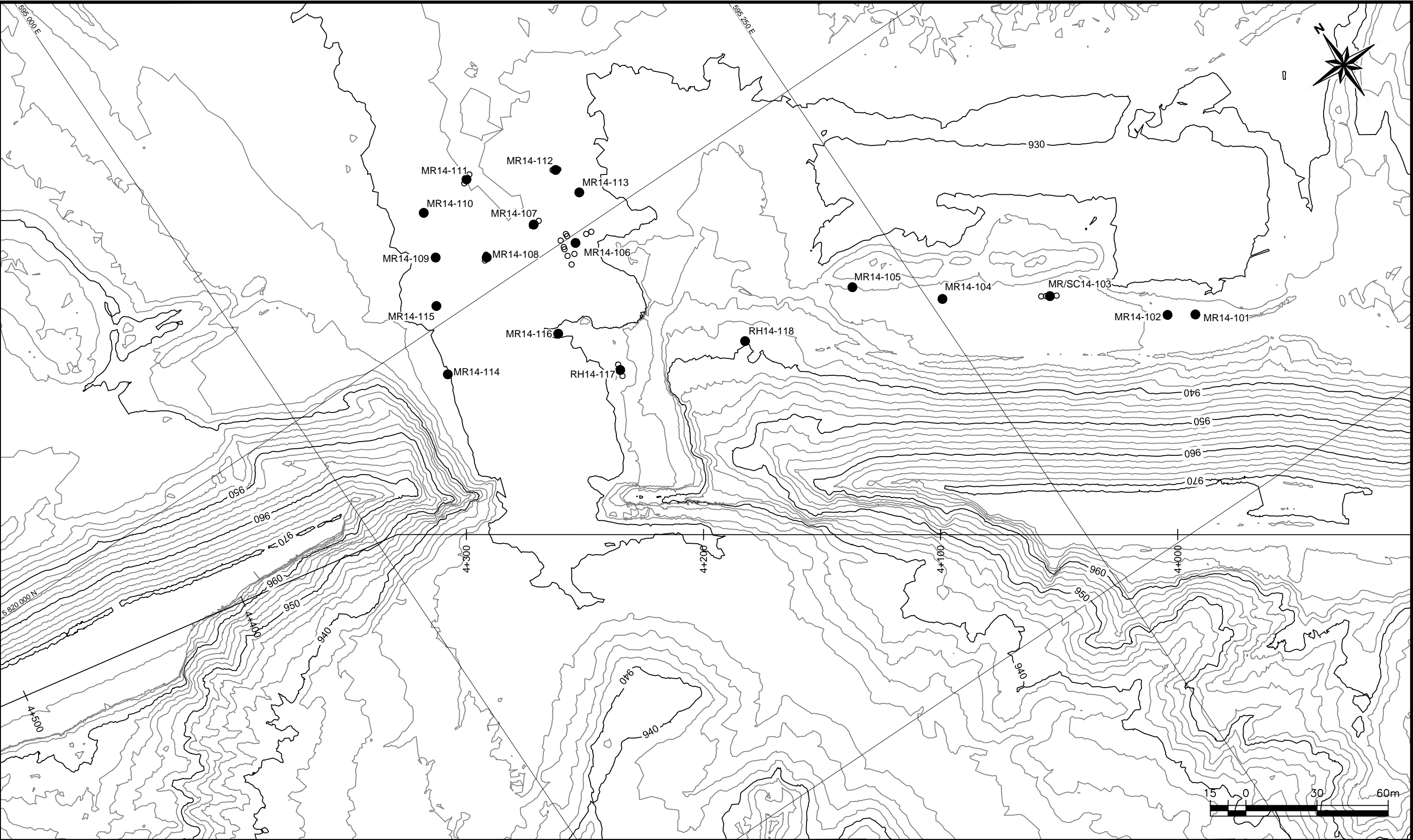
### **Appendix D: ATTACHMENT D6**

#### **Attachment D6: Panel Boreholes and Sampling**

- Panel Borehole Logs
- Field Photos of Tube Samples

Appendix D  
Attachment 6  
Panel Boreholes and Sampling

# Panel Borehole Logs



LEGEND:  ● BORE HOLE / SAMPLING HOLE MR - MUD ROTARY DRILLING METHOD RH - ODEX DRILLING METHOD SC - SOIL CORING DRILLING METHOD	<b>PANEL BOREHOLE AND SAMPLING LOCATIONS</b>	DESIGNED	DRAWN
		PJW	NAK
		APPROVED	
		D. VAN ZYL	
	MOUNT POLLEY INDEPENDENT EXPERT ENGINEERING INVESTIGATION AND REVIEW PANEL	DATE	FIGURE No.
		JANUARY 06, 2015	<b>D.A6-1</b>



**Hole Location Summary**

Hole Number	Northing (m)	Easting (m)	Elevation (m)
MR14-101	5819826	595340	933.0
MR14-102	5819832	595330	932.5
MR14-103	5819865	595296	930.7
SC14-103	5819967	595292	930.8
SC14-103A	5819868	595290	930.9
MR14-104	5819891	595255	931.7
MR14-105	5819914	595228	931.7
MR14-105A	5819916	595226	931.7
MR14-106	5819997	595148	929.4
MR14-106A	5819997	595146	928.7
MR14-106B	5820001	595139	928.5
MR14-106C	5820002	595139	928.5
MR14-106D	5819993	595137	928.7
MR14-106E	5819990	595134	929.0
MR14-106F	5819994	595134	928.7
MR14-106G	5819997	595135	928.7
MR14-106H	5819998	595135	928.6
MR14-106I	5820001	595135	928.6
MR14-107	5820013	595131	928.7
MR14-107A	5820013	595132	928.3
MR14-107B	5820013	595129	928.4
MR14-108	5820013	595105	928.6
MR14-108A	5820014	595106	928.6
MR14-109	5820022	595087	929.0
MR14-110	5820037	595092	928.7
MR14-111	5820044	595115	928.6
MR14-111A	5820046	595119	928.1
MR14-112	5820028	595149	928.9
MR14-112A	5820026	595151	928.7
MR14-113	5820013	595152	929.4
MR14-114	5819981	595064	930.6
MR14-115	5820007	595076	929.0
MR14-116	5819969	595113	930.6
MR14-116A	5819969	595112	930.6
RH14-117*	5819939	595125	932.4
RH14-117A*	5819936	595132	932.6
RH14-118*	5819922	595176	937.7

\* locations not surveyed

# SYMBOLS AND TERMS

## FOR SOIL DESCRIPTION SHOWN ON LOGS

### BASIC SOIL SYMBOLS

Predominant Material		Secondary Material	
GRAVEL		gravelly to some gravel	
SAND		sandy to some sand	
SILT		silty to some silt	
CLAY		clayey to some clay	
PEAT / ORGANICS		some organics	
Undifferentiated BEDROCK			
ORGANIC SILT			
FILL / DEBRIS			

### PROPORTION OF MINOR COMPONENTS BY WEIGHT <sup>(2)</sup>

and	35 - 50%
y / ey	20 - 35%
some	10 - 20%
trace	0 - 10%

### SYMBOL VARIATIONS - EXAMPLES <sup>(1)</sup>

SAND and GRAVEL

SAND, silty

SILT with some clay



### DENSITY OF GRANULAR SOILS

Description	SPT N <sup>(4)</sup>
Very Loose	0 - 4
Loose	4 - 10
Compact	10 - 30
Dense	30 - 50
Very Dense	> 50

### CONSISTENCY OF COHESIVE SOILS

Description	Undrained Shear Strength (kPa) <sup>(4)</sup>
Very Soft	< 12
Soft	12 - 25
Firm	25 - 50
Stiff	50 - 100
Very Stiff	100 - 200
Hard	> 200

### PENETRATION TESTS

Dynamic Cone Penetration	
Standard Penetration	
Becker Closed Casing	
Becker Open Casing	
Bounce Chamber Pressure	

### CLASSIFICATION BY PARTICLE SIZE

Name	Size Range <sup>(4)</sup>		
	(mm) <sup>(3)</sup>	U.S. Standard Sieve Size	
		Retained	Passing
Boulders	> 200	8 inch	-
Cobbles	75 - 200	3 inch	8 inch
Gravel: coarse	19 - 75	0.75 inch	3 inch
Gravel: fine	5 - 19	No. 4	0.75 inch
Sand: coarse	2 - 5	No. 10	No. 4
Sand: medium	0.4 - 2	No. 40	No. 10
Sand: fine	0.075 - 0.4	No. 200	No. 40
Fines: silt	0.002 - 0.075	-	No. 200
Fines: clay	< 0.002	-	-

- Only selected examples of the possible variations or combinations of the basic symbols are illustrated.
- USCS refers to group symbols as defined by the Unified Soil Classification System. Soil descriptions related to fines and secondary materials are based on particle size where lab testing was completed by Thurber and visual and tactile field behaviour of samples where lab testing was not completed by Thurber.
- Approximate metric conversion.
- Reference Canadian Foundation Engineering Manual 4th Edition, 2006.

**LOCATION:** See Fig. 209  
E 595340, N 5819826

**TOP OF HOLE ELEV:** 933.0 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** WRW

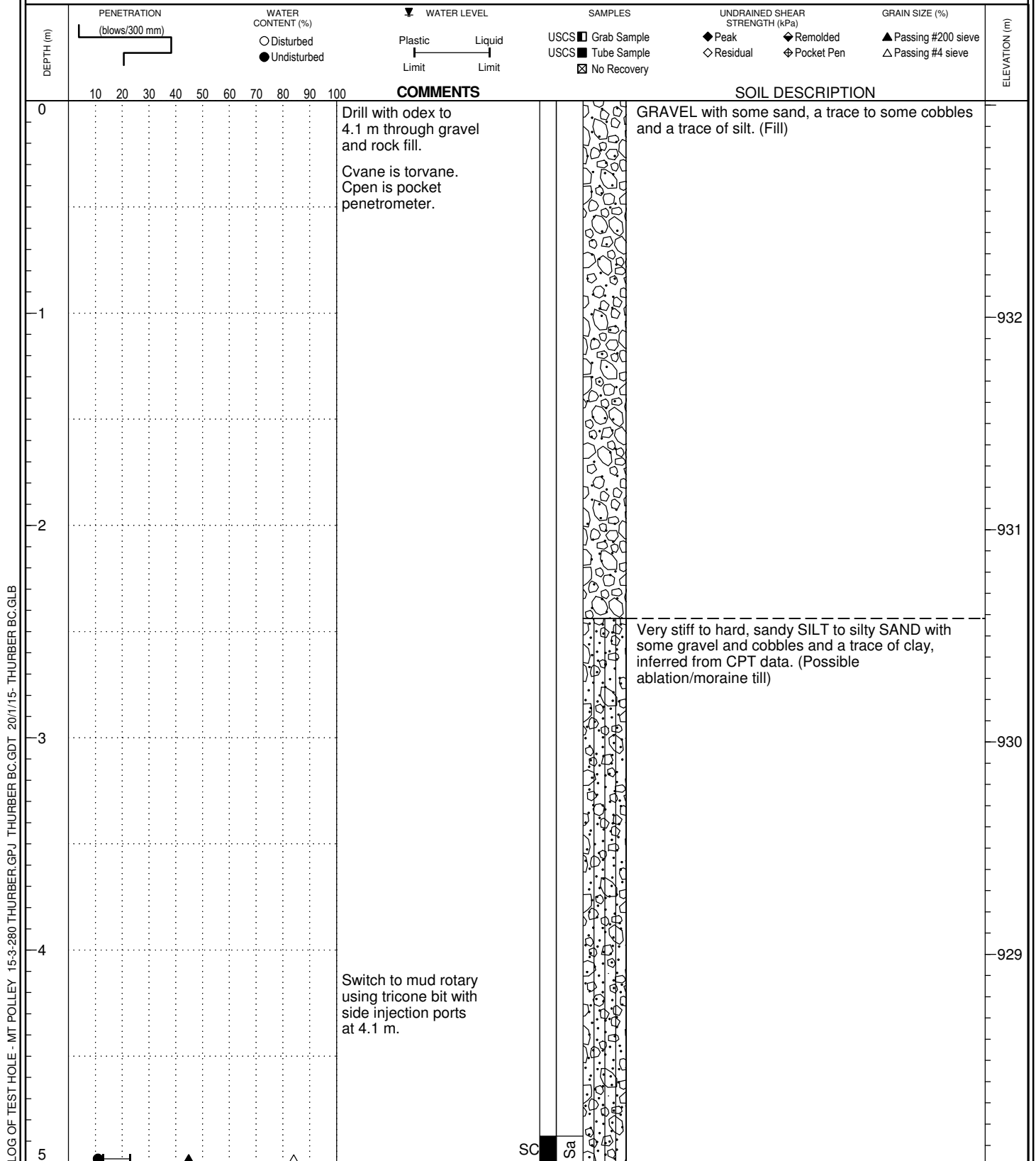


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 17, 2014

**FILE NO.:** 15-3-280



**LOCATION:** See Fig. 209  
E 595340, N 5819826

**TOP OF HOLE ELEV:** 933.0 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** WRW

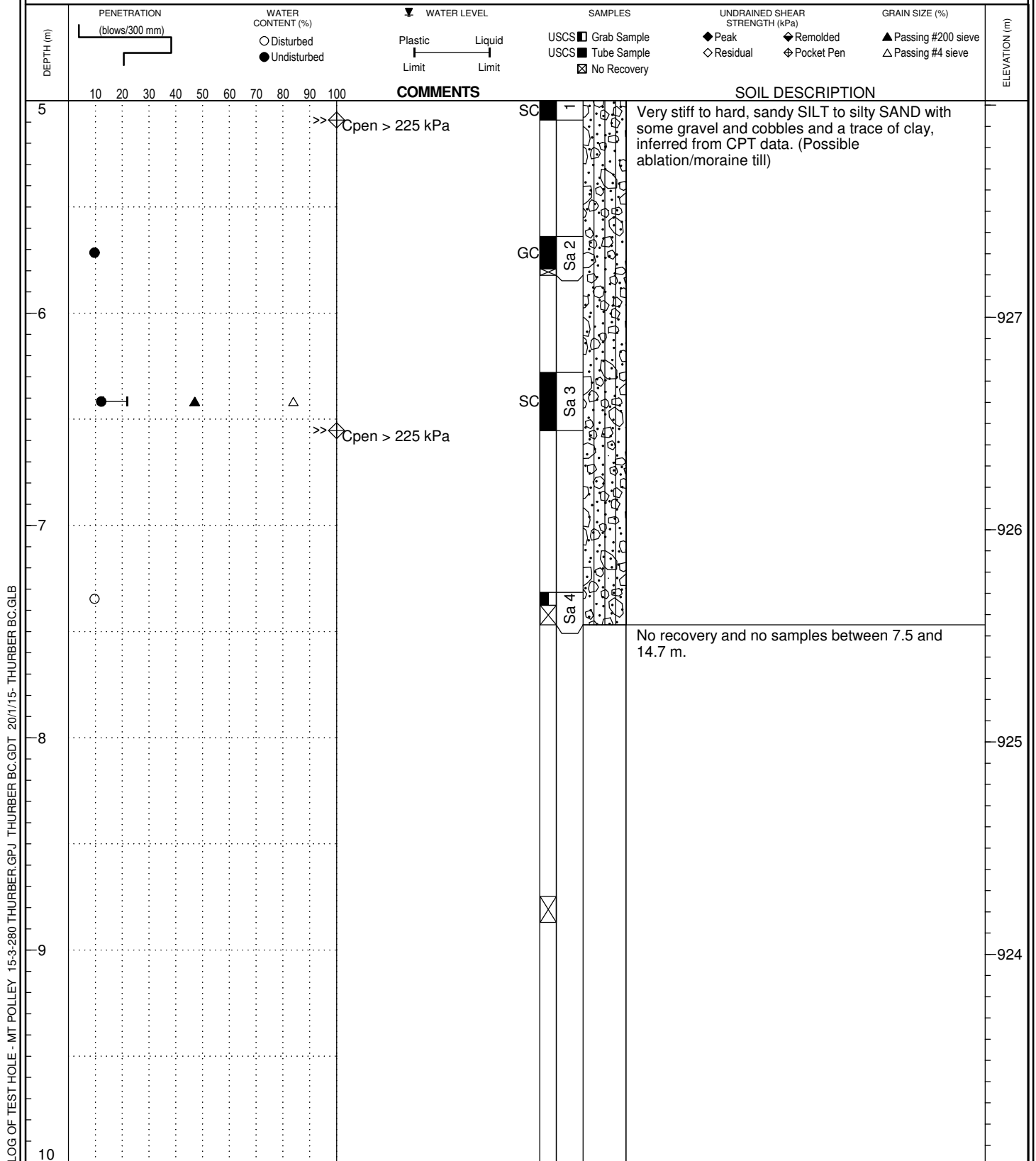


**CLIENT:** Mount Polley Independent Expert  
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Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 17, 2014

**FILE NO.:** 15-3-280



**LOCATION:** See Fig. 209  
E 595340, N 5819826

**TOP OF HOLE ELEV:** 933.0 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** WRW

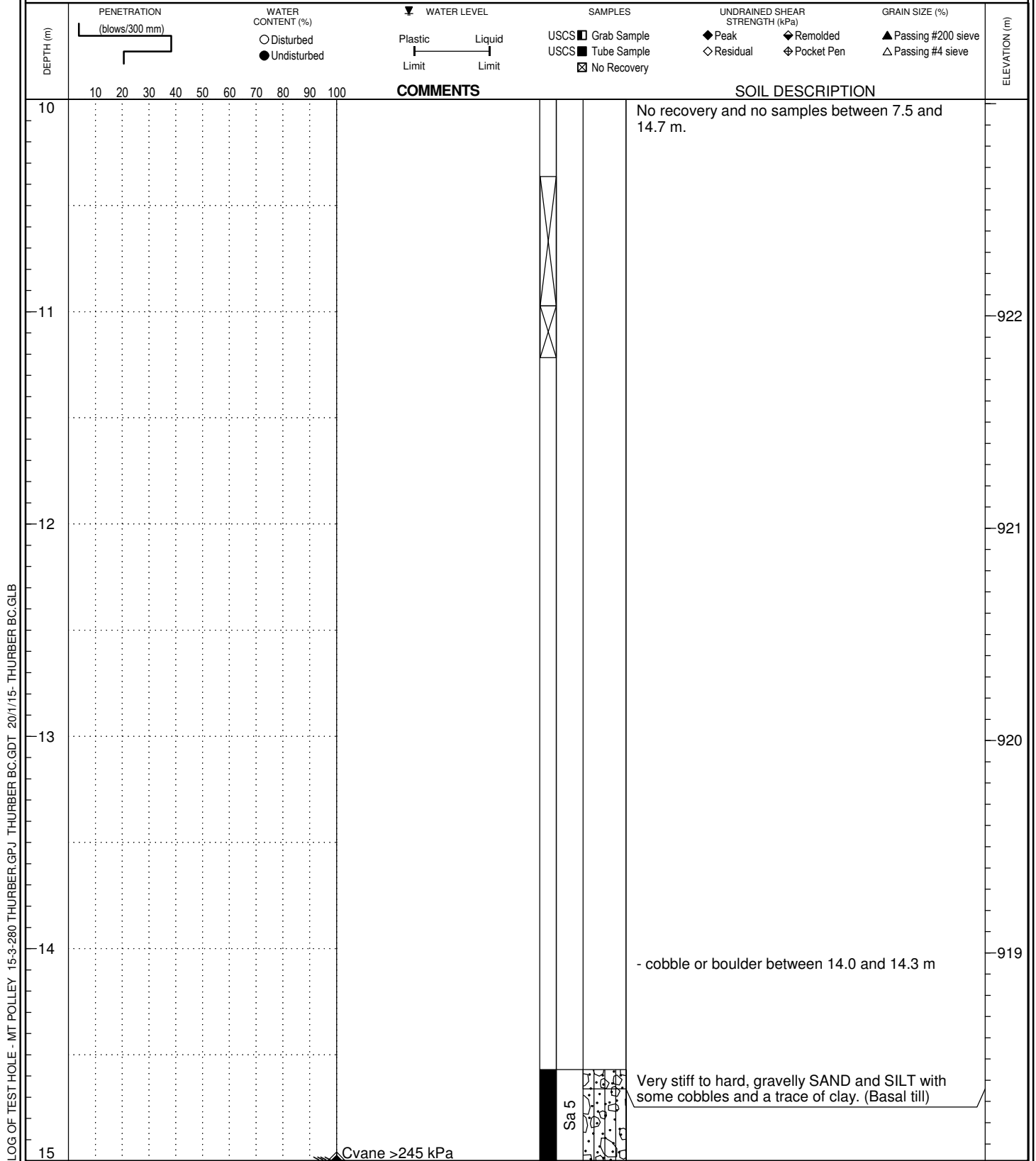


**CLIENT:** Mount Polley Independent Expert  
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**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 17, 2014

**FILE NO.:** 15-3-280



HOLE NO.  
**MR14-101**

**LOCATION:** See Fig. 209  
E 595340, N 5819826

**TOP OF HOLE ELEV:** 933.0 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** WRW

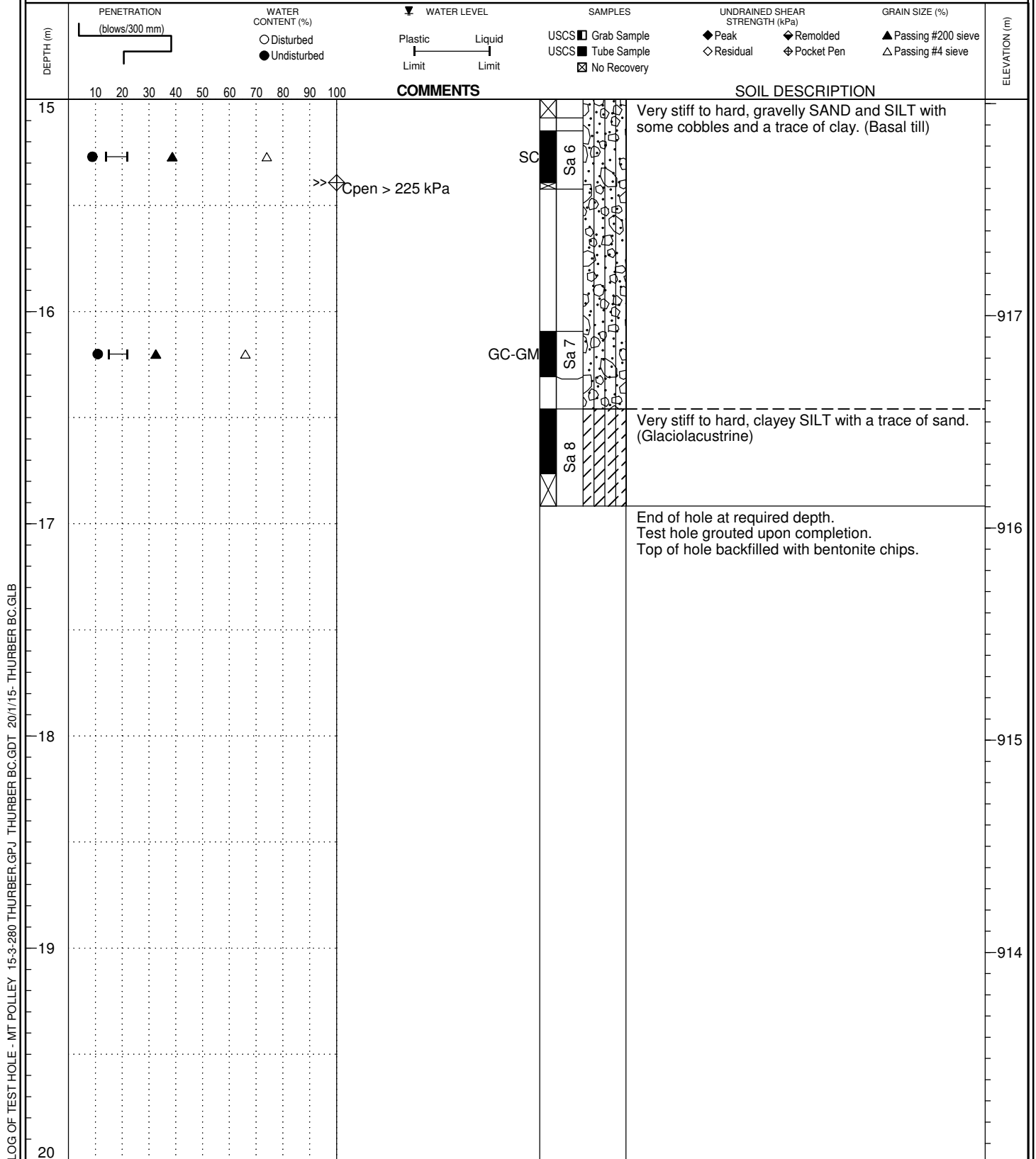


**CLIENT:** Mount Polley Independent Expert  
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**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 17, 2014

**FILE NO.:** 15-3-280



LOG OF TEST HOLE - MT POLLEY 15-3-280 THURBER.GPJ THURBER BC.GDT 20/1/15- THURBER BC.GLB

**LOCATION:** See Fig. 209  
E 595330, N 5819832

**TOP OF HOLE ELEV:** 932.5 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** WRW

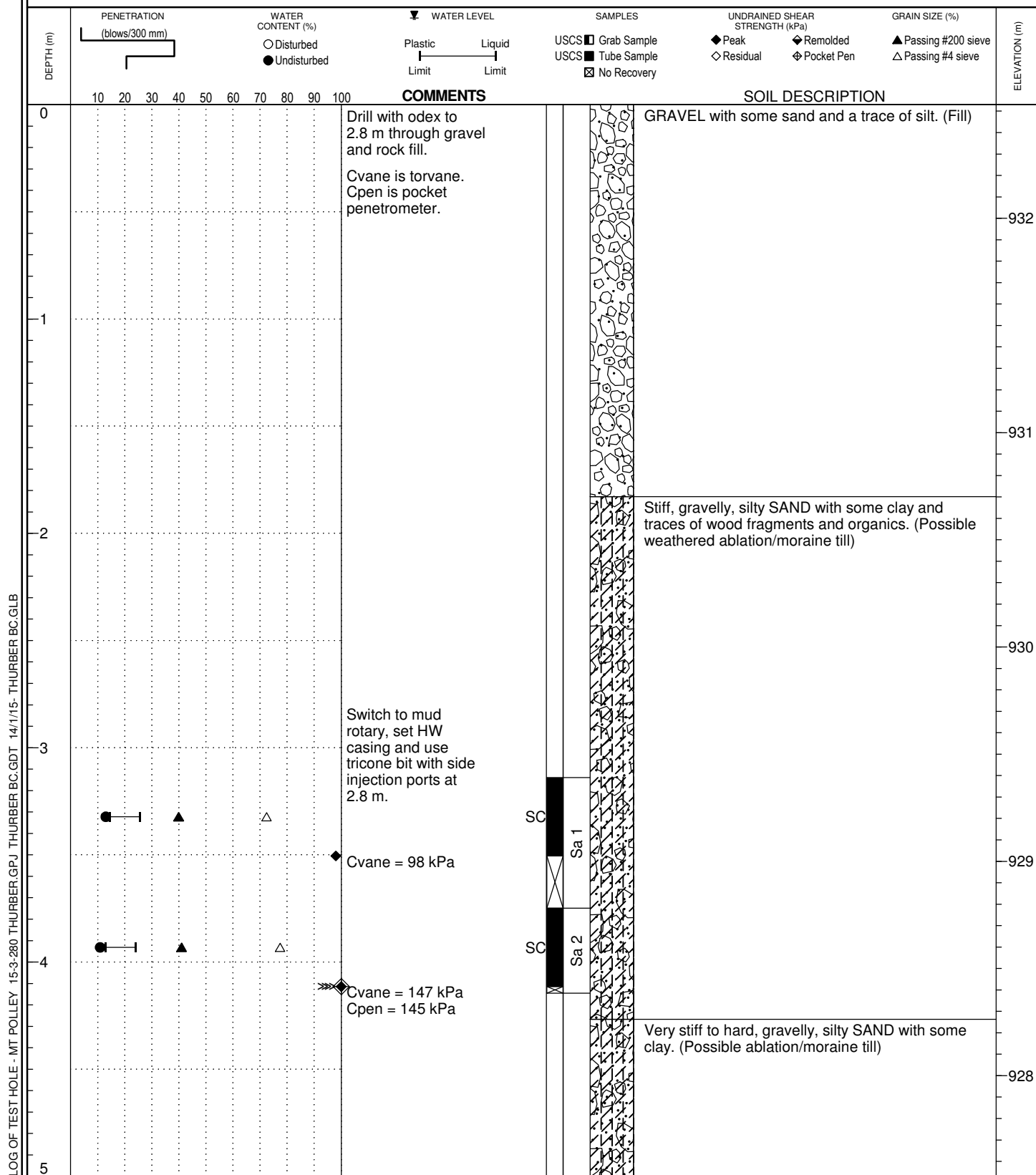


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 16, 2014

**FILE NO.:** 15-3-280



**LOCATION:** See Fig. 209  
E 595330, N 5819832

**TOP OF HOLE ELEV:** 932.5 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** WRW

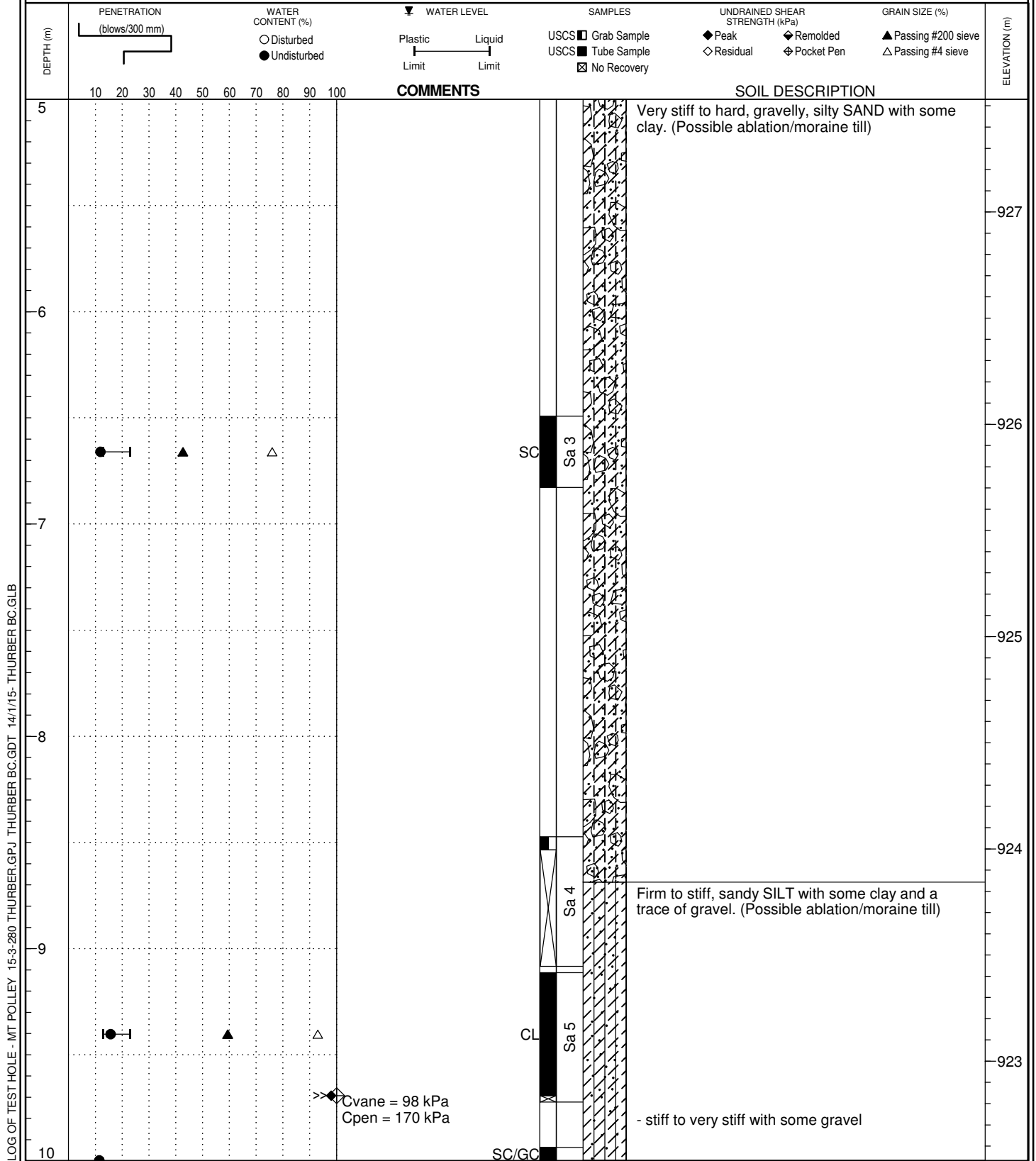


**CLIENT:** Mount Polley Independent Expert  
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Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 16, 2014

**FILE NO.:** 15-3-280









**LOCATION:** See Fig. 209  
E 595296, N 5819865

**TOP OF HOLE ELEV:** 930.7 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** WRW

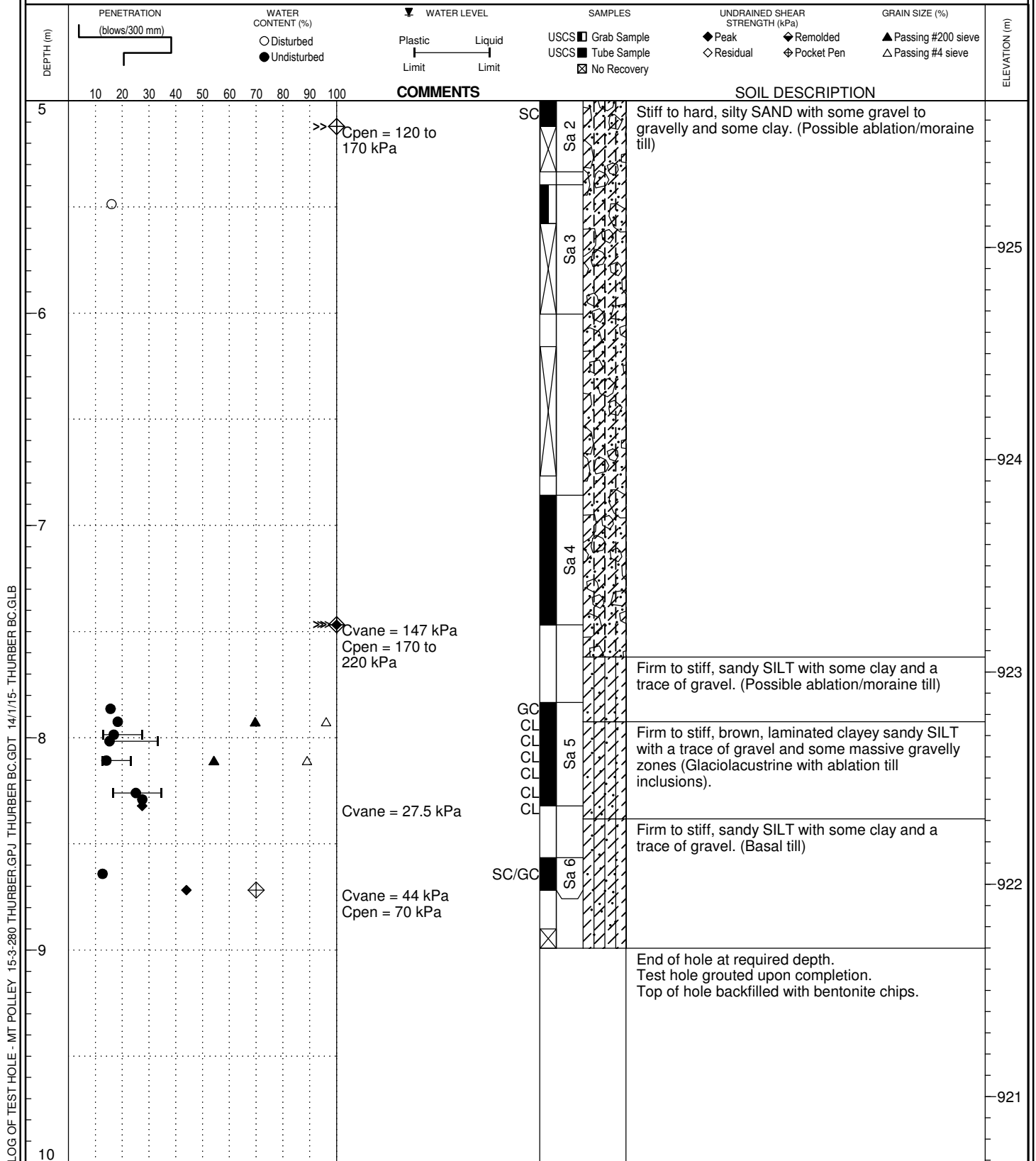


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 18, 2014

**FILE NO.:** 15-3-280





**LOCATION:** See Fig. 209  
E 595292, N 5819967

**TOP OF HOLE ELEV:** 930.8 m

**METHOD:** PQ Air Coring / HQ Water Coring

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB

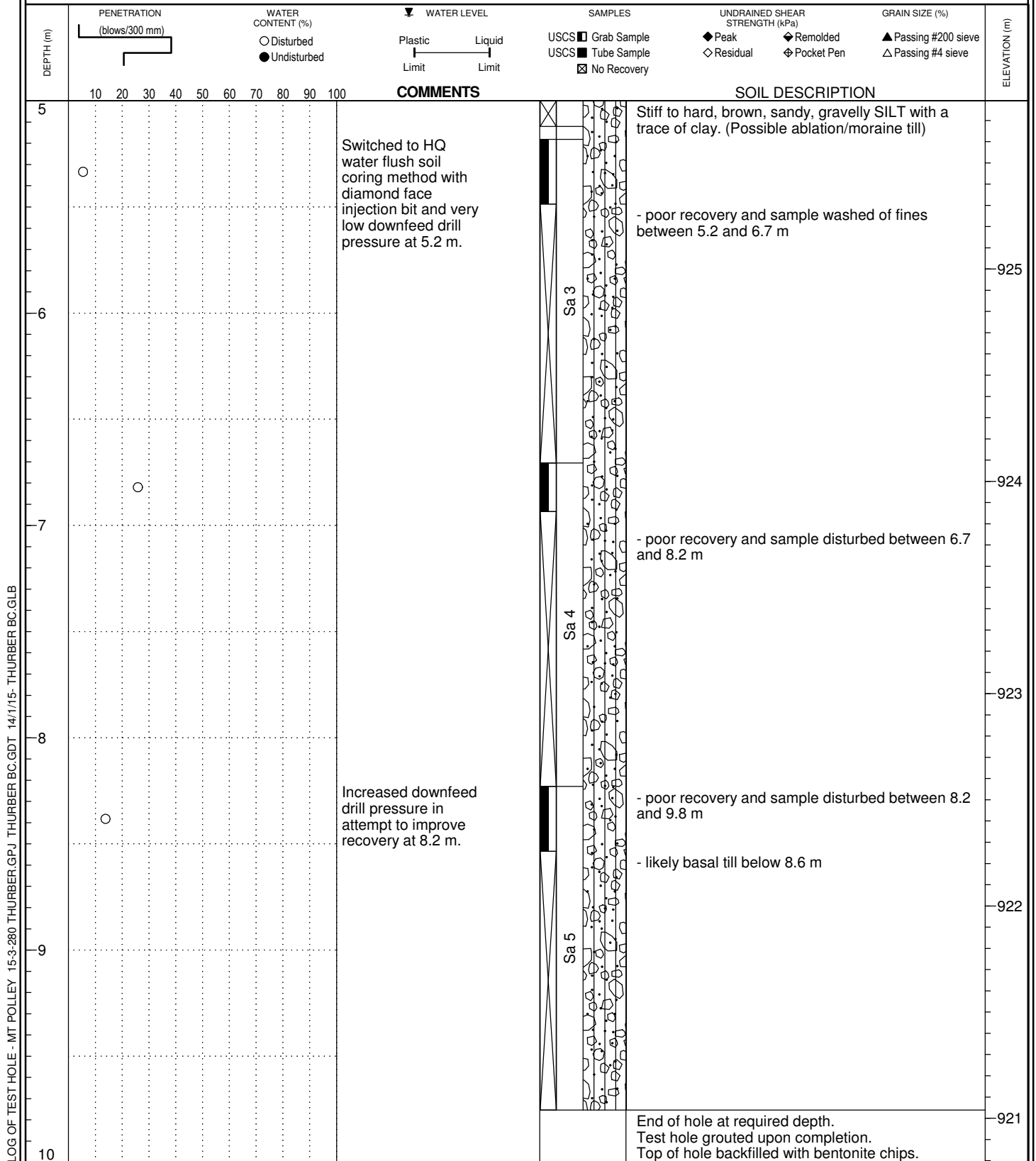


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 25, 2014

**FILE NO.:** 15-3-280



LOG OF TEST HOLE - MT POLLEY 15-3-280 THURBER.GPJ THURBER BC.GDT 14/1/15- THURBER BC.GLB

**LOCATION:** See Fig. 209  
E 595290, N 5819868

**TOP OF HOLE ELEV:** 930.9 m

**METHOD:** PQ Water Soil Coring

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB

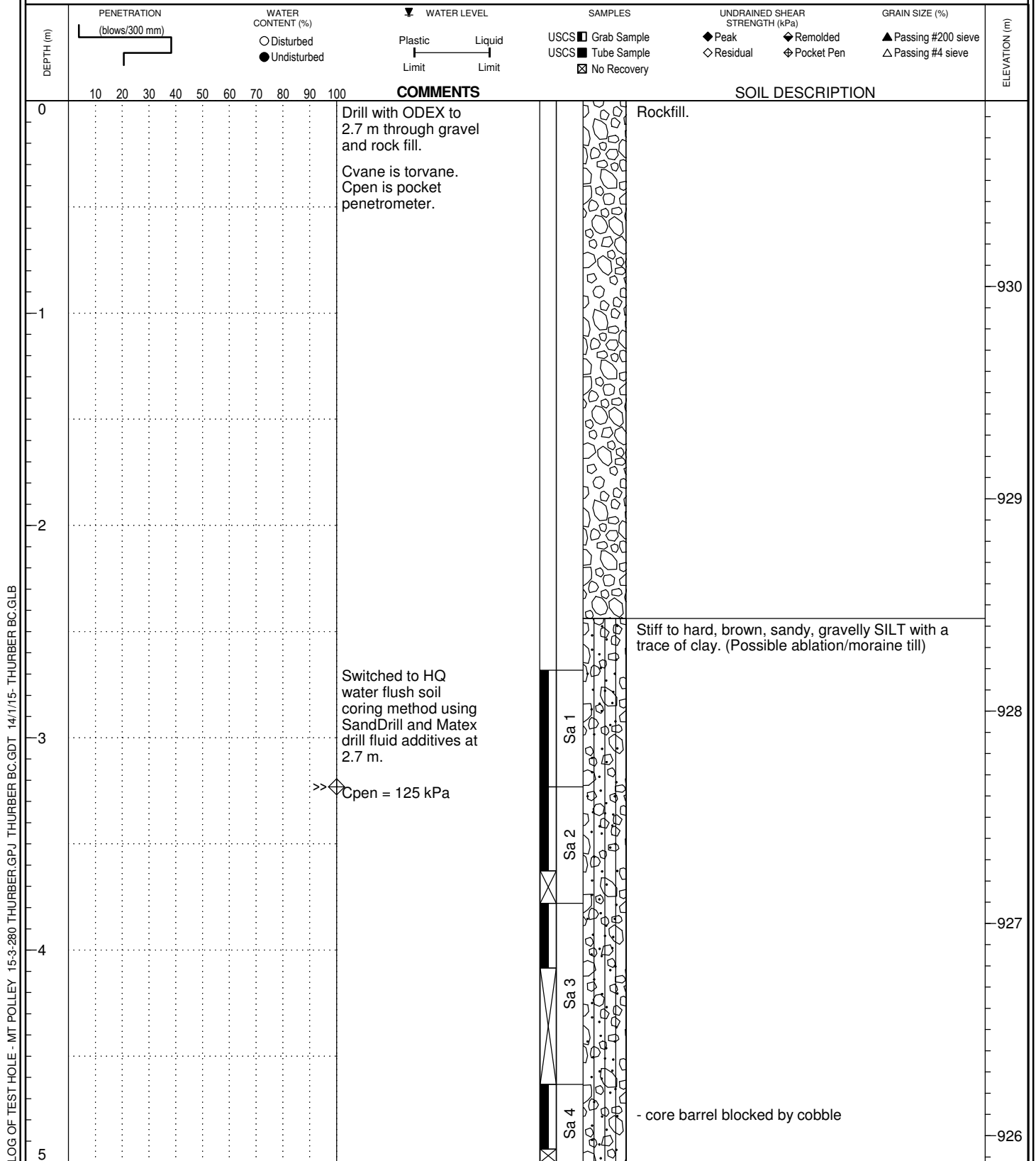


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 27, 2014

**FILE NO.:** 15-3-280



**LOCATION:** See Fig. 209  
E 595290, N 5819868

**TOP OF HOLE ELEV:** 930.9 m

**METHOD:** PQ Water Soil Coring

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB

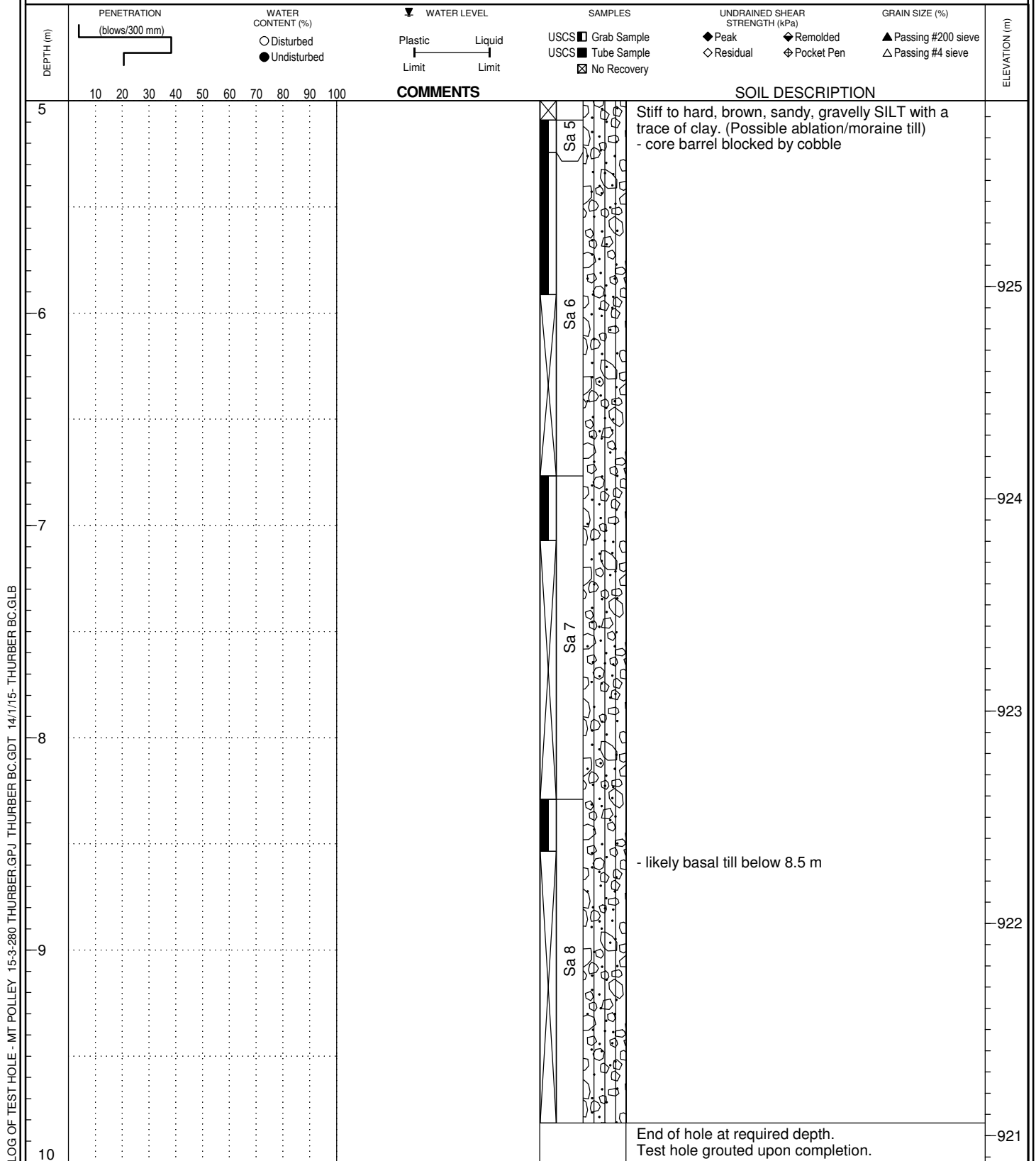


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 27, 2014

**FILE NO.:** 15-3-280



**LOCATION:** See Fig. 209  
E 595290, N 5819868

**TOP OF HOLE ELEV:** 930.9 m

**METHOD:** PQ Water Soil Coring

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 27, 2014

**FILE NO.:** 15-3-280

DEPTH (m)	PENETRATION (blows/300 mm)	WATER CONTENT (%) ○ Disturbed ● Undisturbed	WATER LEVEL ▼ Plastic Limit      Liquid Limit	SAMPLES USCS ■ Grab Sample USCS ■ Tube Sample ☒ No Recovery	UNDRAINED SHEAR STRENGTH (kPa) ◆ Peak      ◆ Remolded ◇ Residual      ◇ Pocket Pen	GRAIN SIZE (%) ▲ Passing #200 sieve △ Passing #4 sieve	ELEVATION (m)
10							920
11							919
12							918
13							917
14							916
15							

LOG OF TEST HOLE - MT POLLEY 15-3-280 THURBER.GPJ THURBER BC.GDT 14/1/15- THURBER BC.GLB



**LOCATION:** See Fig. 209  
E 595255, N 5819891



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**TOP OF HOLE ELEV:** 931.7 m

**PROJECT:** Mount Polley Tailings Dam Breach

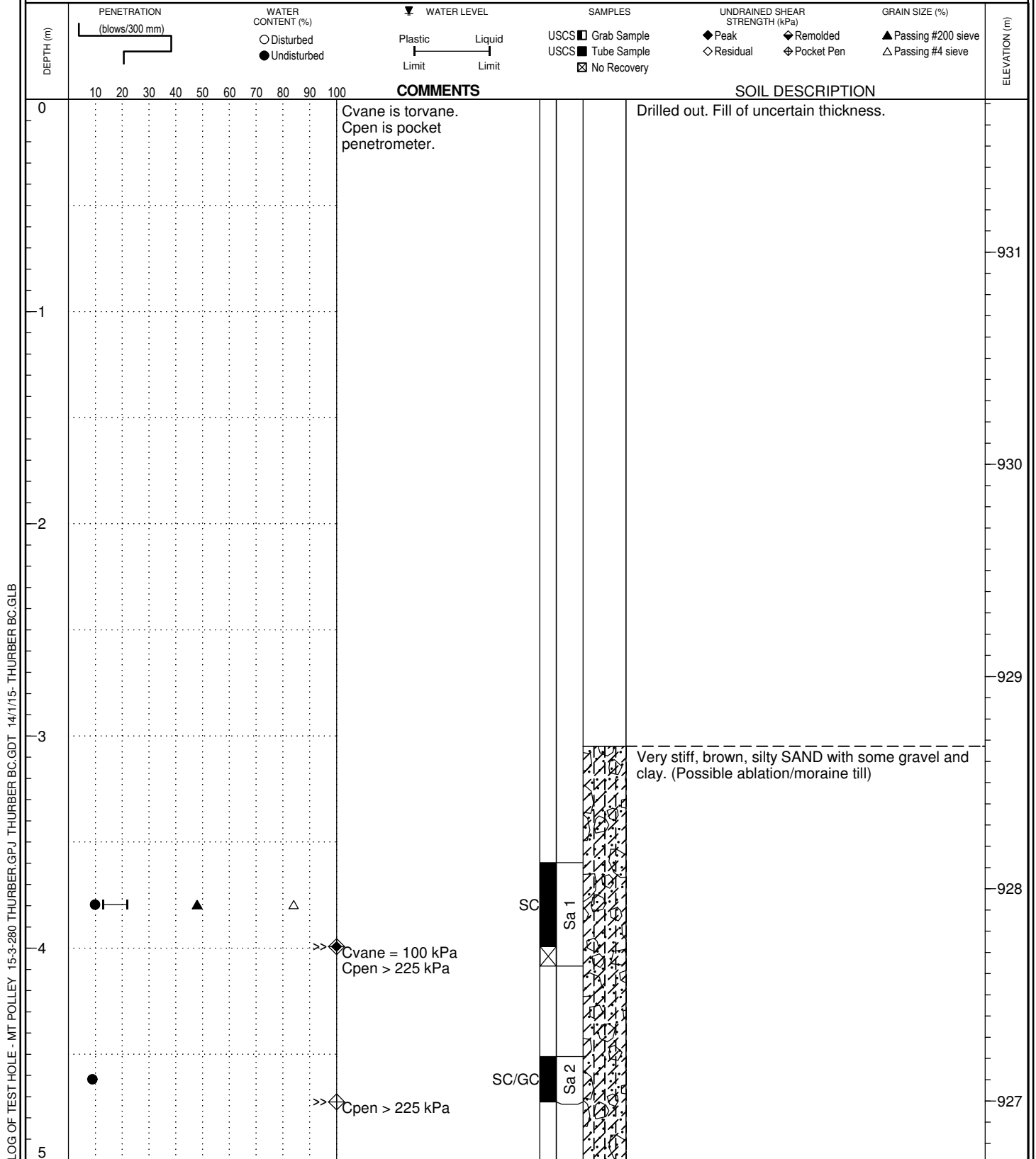
**METHOD:** Mud Rotary

**DATE:** October 18, 2014

**DRILLING CO.:** Geotech Drilling Ltd.

**FILE NO.:** 15-3-280

**INSPECTOR:** WRW/CJC





**LOCATION:** See Fig. 209  
E 595255, N 5819891

**TOP OF HOLE ELEV:** 931.7 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** WRW/CJC

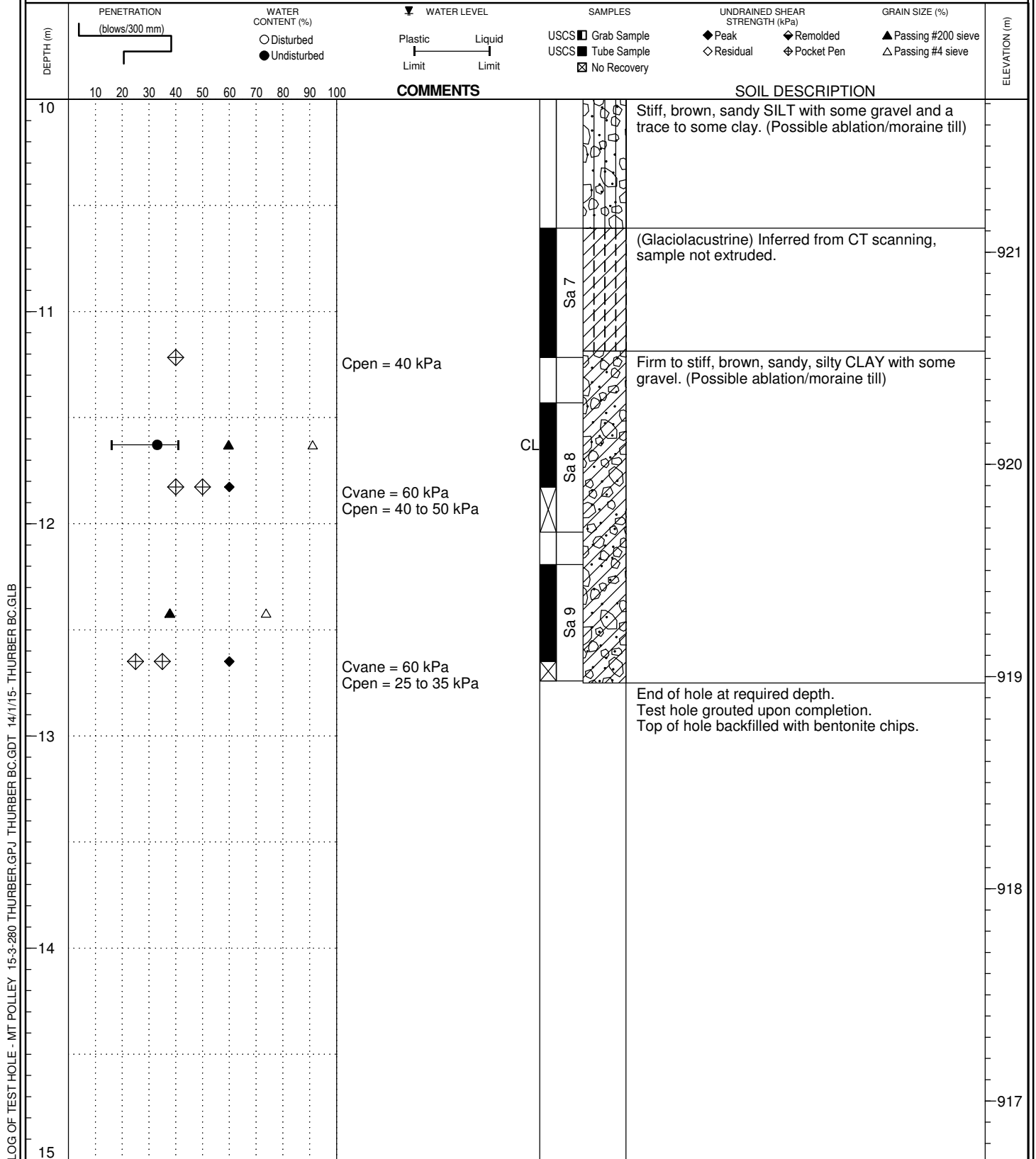


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 18, 2014

**FILE NO.:** 15-3-280



**LOCATION:** See Fig. 209  
E 595228, N 5819914



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**TOP OF HOLE ELEV:** 931.7 m

**PROJECT:** Mount Polley Tailings Dam Breach

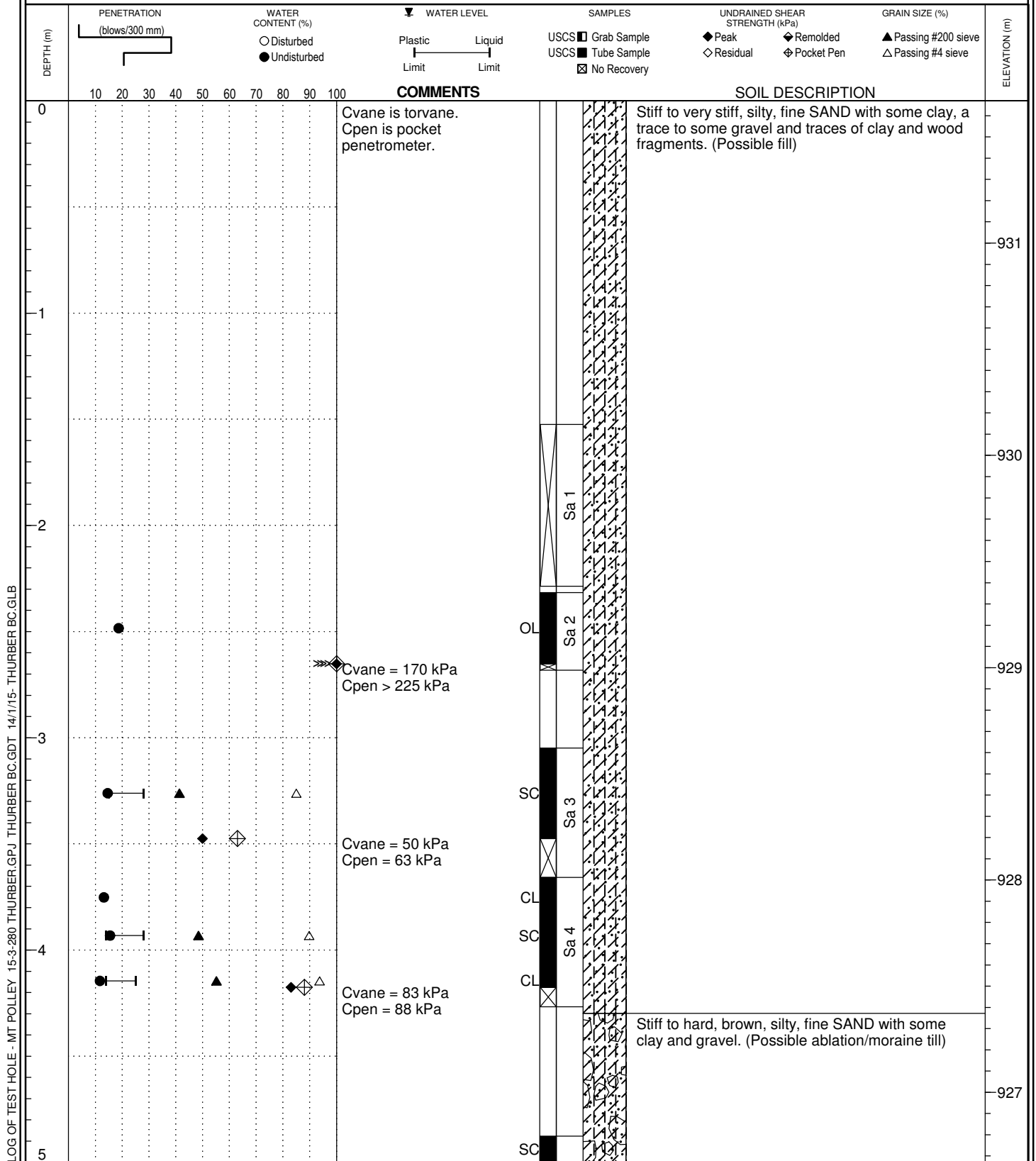
**METHOD:** Mud Rotary

**DATE:** October 20, 2014

**DRILLING CO.:** Geotech Drilling Ltd.

**FILE NO.:** 15-3-280

**INSPECTOR:** TB



**LOCATION:** See Fig. 209  
E 595228, N 5819914

**TOP OF HOLE ELEV:** 931.7 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB

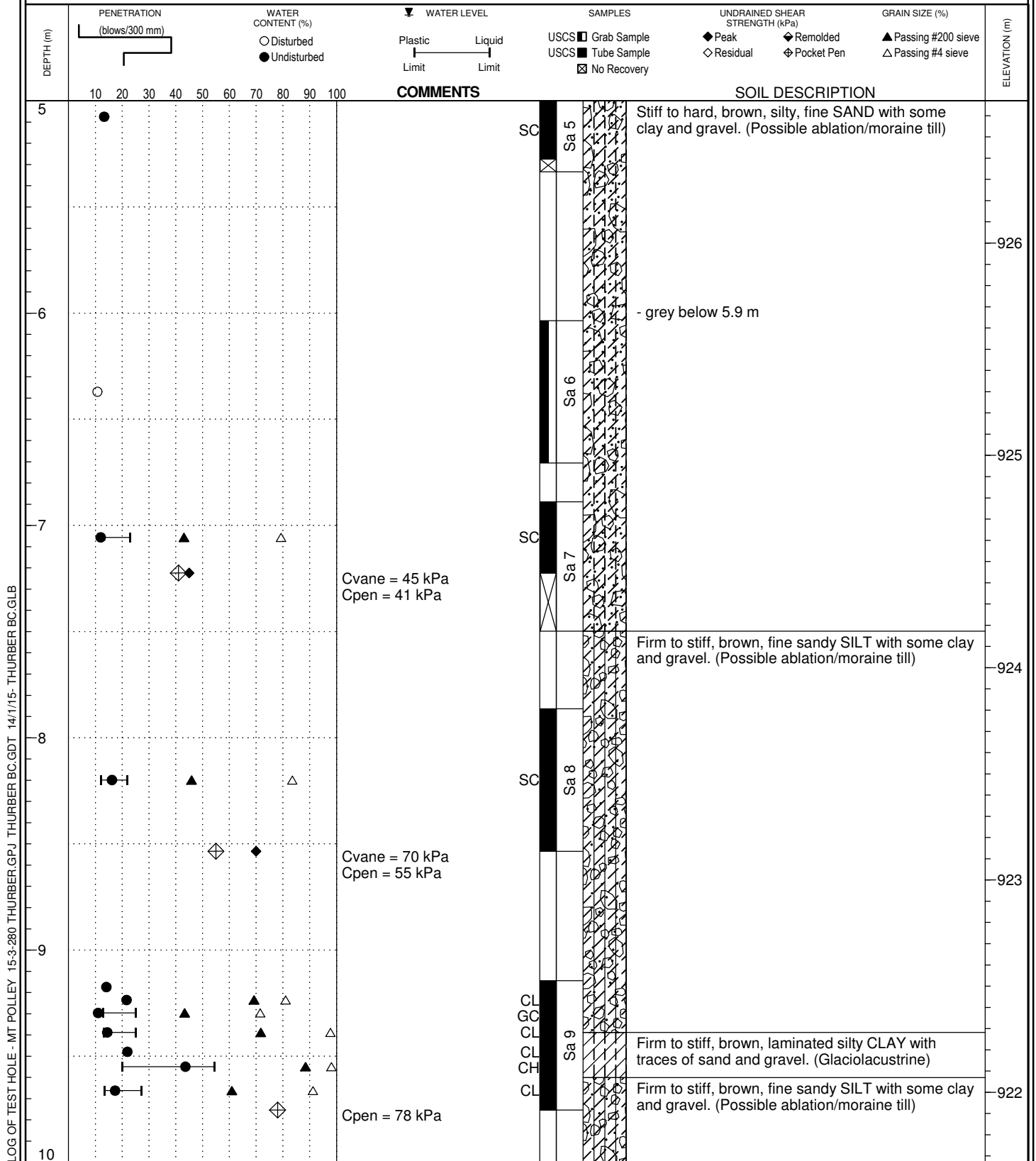


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 20, 2014

**FILE NO.:** 15-3-280



**LOCATION:** See Fig. 209  
E 595228, N 5819914

**TOP OF HOLE ELEV:** 931.7 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB

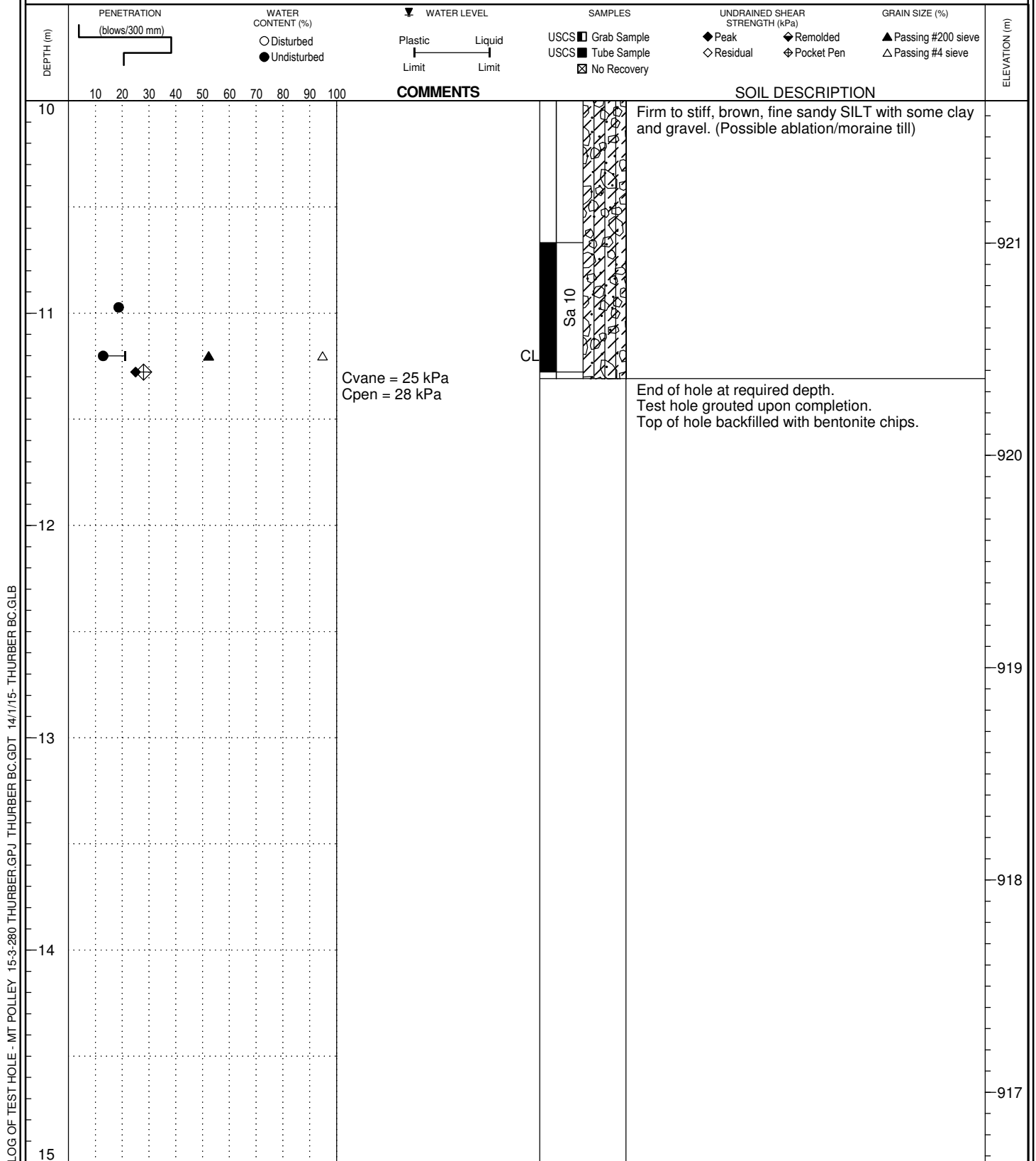


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 20, 2014

**FILE NO.:** 15-3-280



**LOCATION:** See Fig. 209  
E 595226, N 5819916

**TOP OF HOLE ELEV:** 931.7 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB

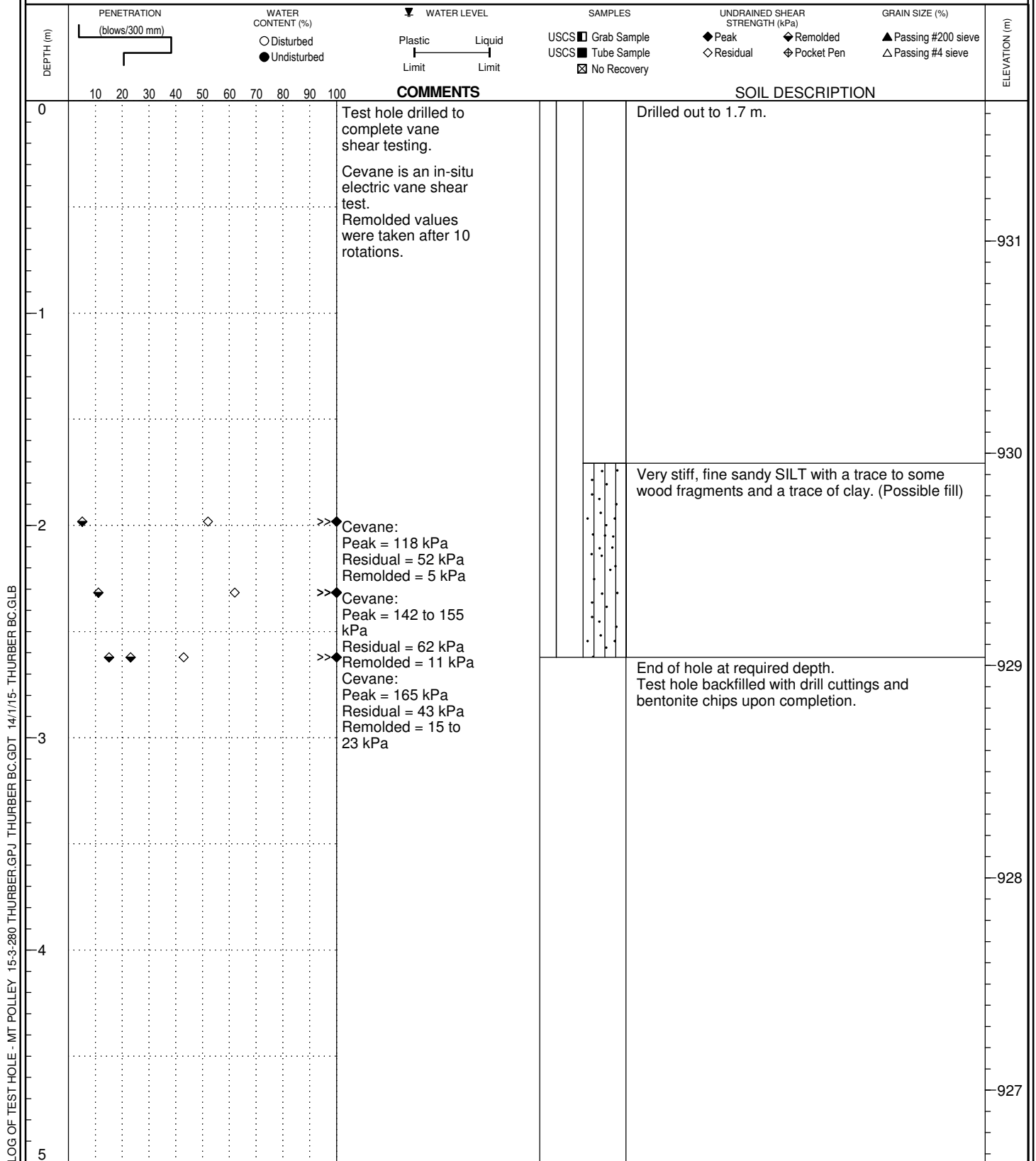


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** November 1, 2014

**FILE NO.:** 15-3-280



**LOCATION:** See Fig. 209  
E 595148, N 5819997



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**TOP OF HOLE ELEV:** 929.4 m

**PROJECT:** Mount Polley Tailings Dam Breach

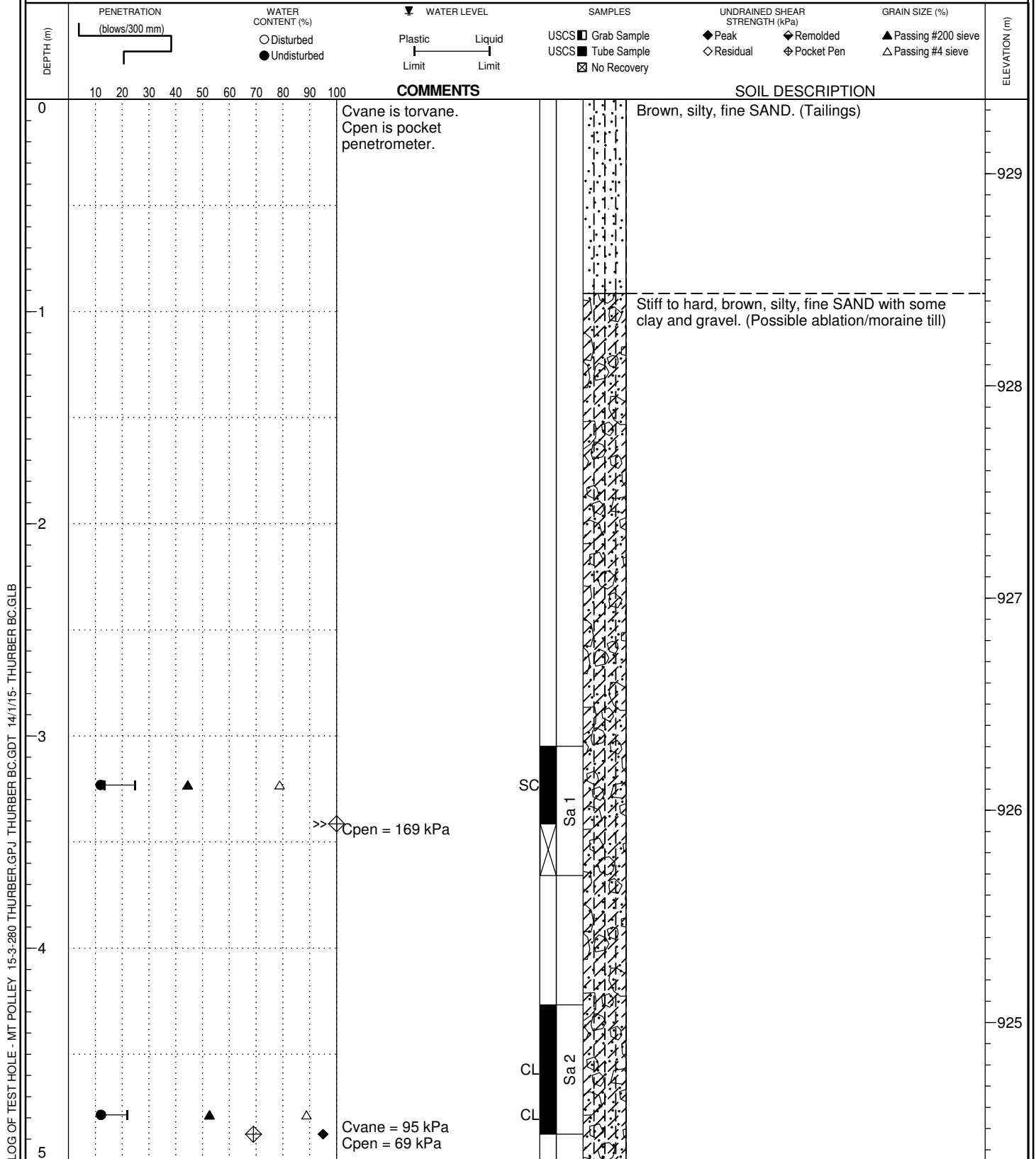
**METHOD:** Mud Rotary

**DATE:** October 20/21, 2014

**DRILLING CO.:** Geotech Drilling Ltd.

**FILE NO.:** 15-3-280

**INSPECTOR:** TB





**LOCATION:** See Fig. 209  
E 595148, N 5819997

**TOP OF HOLE ELEV:** 929.4 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB

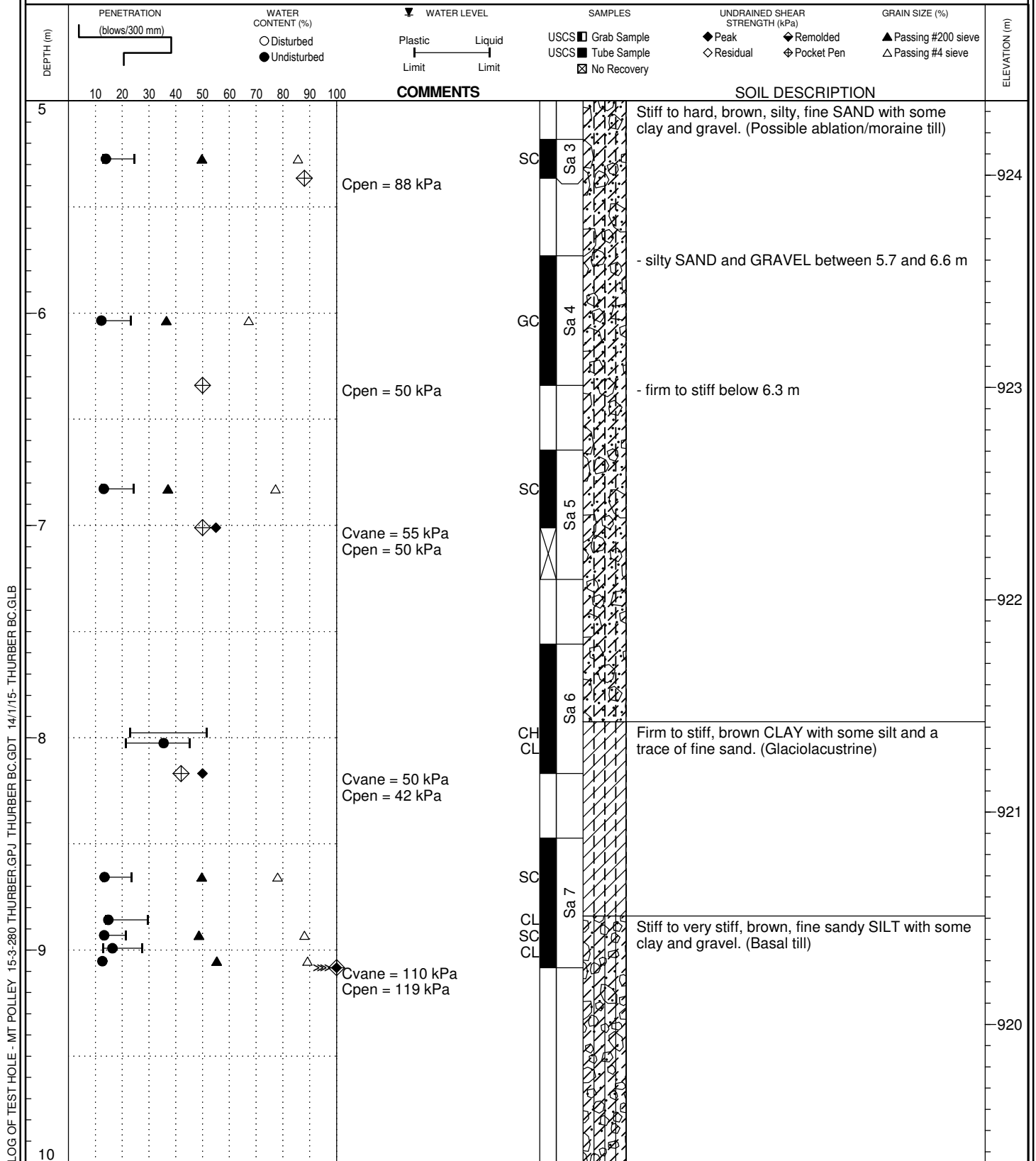


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 20/21, 2014

**FILE NO.:** 15-3-280





**LOCATION:** See Fig. 209  
E 595146, N 5819997

**TOP OF HOLE ELEV:** 928.7 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 31, 2014

**FILE NO.:** 15-3-280

DEPTH (m)	PENETRATION (blows/300 mm)	WATER CONTENT (%) ○ Disturbed ● Undisturbed	WATER LEVEL ▼ Plastic Limit      Liquid Limit	SAMPLES USCS ■ Grab Sample USCS ■ Tube Sample ☒ No Recovery	UNDRAINED SHEAR STRENGTH (kPa) ◆ Peak      ◆ Remolded ◇ Residual      ◇ Pocket Pen	GRAIN SIZE (%) ▲ Passing #200 sieve △ Passing #4 sieve	ELEVATION (m)	COMMENTS	SOIL DESCRIPTION
0								Test hole drilled to complete vane shear testing.	Drilled out.
								Cvane is torvane.	
								Open is pocket penetrometer.	
								Cevane was completed in-situ, using an electric vane.	
1								Remolded values were taken after 10 rotations.	
2									
3									
4									
5									

**LOCATION:** See Fig. 209  
E 595146, N 5819997

**TOP OF HOLE ELEV:** 928.7 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB

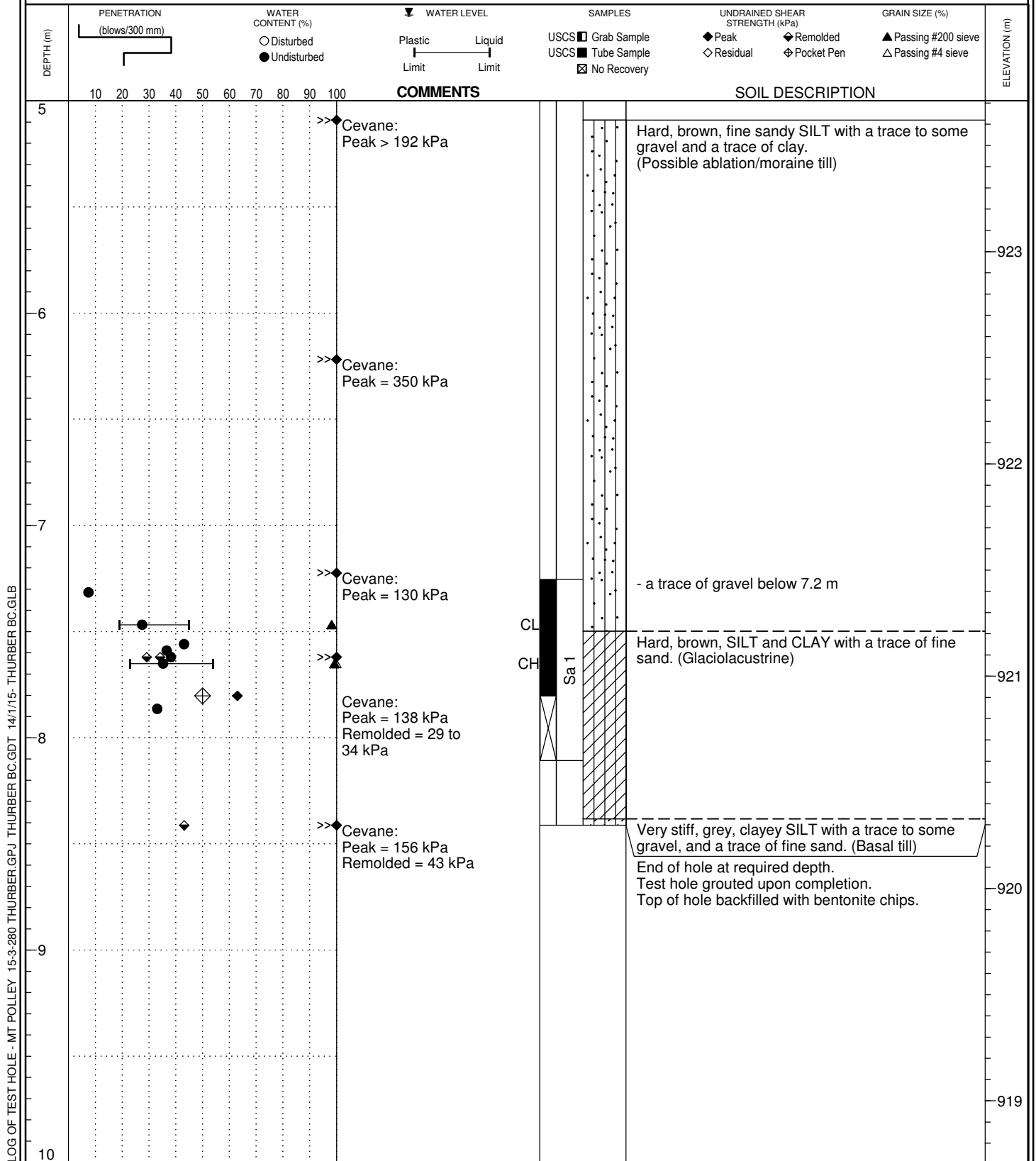


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 31, 2014

**FILE NO.:** 15-3-280



**LOCATION:** See Fig. 209  
E 595139, N 5820001

**TOP OF HOLE ELEV:** 928.5 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** BSP



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** November 5, 2014

**FILE NO.:** 15-3-280

DEPTH (m)	PENETRATION (blows/300 mm)	WATER CONTENT (%) ○ Disturbed ● Undisturbed	WATER LEVEL ▼ Plastic Limit      Liquid Limit	SAMPLES USCS ■ Grab Sample USCS ■ Tube Sample ☒ No Recovery	UNDRAINED SHEAR STRENGTH (kPa) ◆ Peak      ◆ Remolded ◇ Residual      ◇ Pocket Pen	GRAIN SIZE (%) ▲ Passing #200 sieve △ Passing #4 sieve	ELEVATION (m)
0							928
1							927
2							926
3							925
4							924
5							

**LOCATION:** See Fig. 209  
E 595139, N 5820001

**TOP OF HOLE ELEV:** 928.5 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** BSP



**CLIENT:** Mount Polley Independent Expert  
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Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** November 5, 2014

**FILE NO.:** 15-3-280

DEPTH (m)	PENETRATION (blows/300 mm)	WATER CONTENT (%) ○ Disturbed ● Undisturbed	WATER LEVEL ▼ Plastic Limit      Liquid Limit	SAMPLES USCS ■ Grab Sample USCS ■ Tube Sample ☒ No Recovery	UNDRAINED SHEAR STRENGTH (kPa) ◆ Peak      ◆ Remolded ◇ Residual      ◇ Pocket Pen	GRAIN SIZE (%) ▲ Passing #200 sieve △ Passing #4 sieve	ELEVATION (m)	COMMENTS	SOIL DESCRIPTION
5									Drilled out, no sampling.
6									
7									
8				Sa 1				No recovery.	
				Sa 2					
9								End of hole at required depth. Test hole grouted upon completion. Top of hole backfilled with bentonite chips.	
10									

**LOCATION:** See Fig. 209  
E 595139, N 5820002

**TOP OF HOLE ELEV:** 928.5 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** BSP



**CLIENT:** Mount Polley Independent Expert  
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Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** November 5, 2014

**FILE NO.:** 15-3-280

DEPTH (m)	PENETRATION (blows/300 mm)	WATER CONTENT (%) ○ Disturbed ● Undisturbed	WATER LEVEL ▼ Plastic Limit      Liquid Limit	SAMPLES USCS ■ Grab Sample USCS ■ Tube Sample ☒ No Recovery	UNDRAINED SHEAR STRENGTH (kPa) ◆ Peak      ◆ Remolded ◇ Residual      ◇ Pocket Pen	GRAIN SIZE (%) ▲ Passing #200 sieve △ Passing #4 sieve	ELEVATION (m)
0							928
1							927
2							926
3							925
4							924
5							

LOG OF TEST HOLE - MT POLLEY 15-3-280 THURBER.GPJ THURBER BC.GDT 14/1/15- THURBER BC.GLB

Drilled out to 7.2 m.

**LOCATION:** See Fig. 209  
E 595139, N 5820002

**TOP OF HOLE ELEV:** 928.5 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** BSP

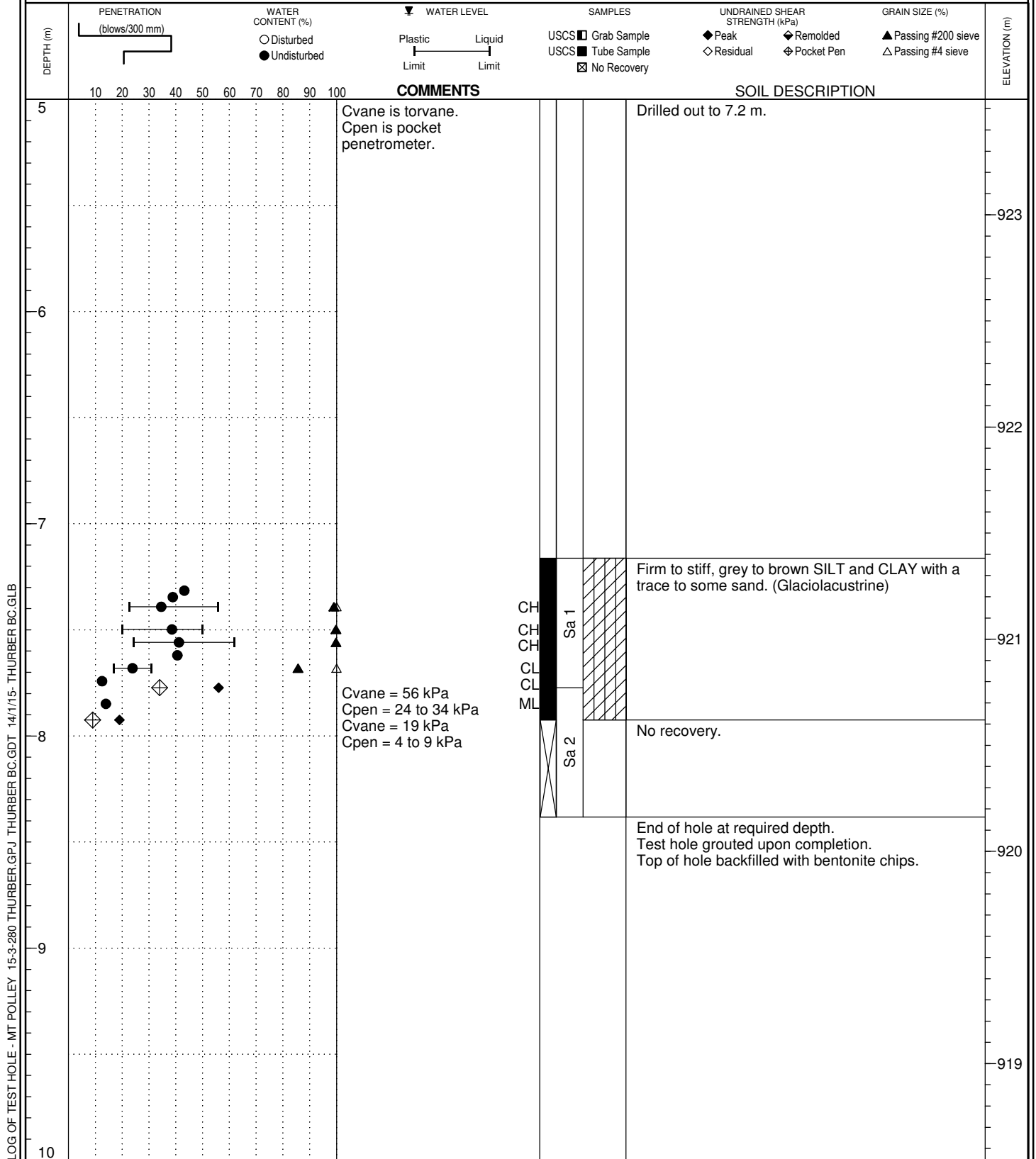


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**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** November 5, 2014

**FILE NO.:** 15-3-280





**LOCATION:** See Fig. 209  
E 595137, N 5819993

**TOP OF HOLE ELEV:** 928.7 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** BSP



**CLIENT:** Mount Polley Independent Expert  
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Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** November 5, 2014

**FILE NO.:** 15-3-280

DEPTH (m)	PENETRATION (blows/300 mm)	WATER CONTENT (%) ○ Disturbed ● Undisturbed	WATER LEVEL ▼ Plastic Limit      Liquid Limit	SAMPLES USCS ■ Grab Sample USCS ■ Tube Sample ☒ No Recovery	UNDRAINED SHEAR STRENGTH (kPa) ◆ Peak      ◆ Remolded ◇ Residual      ◇ Pocket Pen	GRAIN SIZE (%) ▲ Passing #200 sieve △ Passing #4 sieve	ELEVATION (m)
0							928
1							927
2							926
3							925
4							924
5							

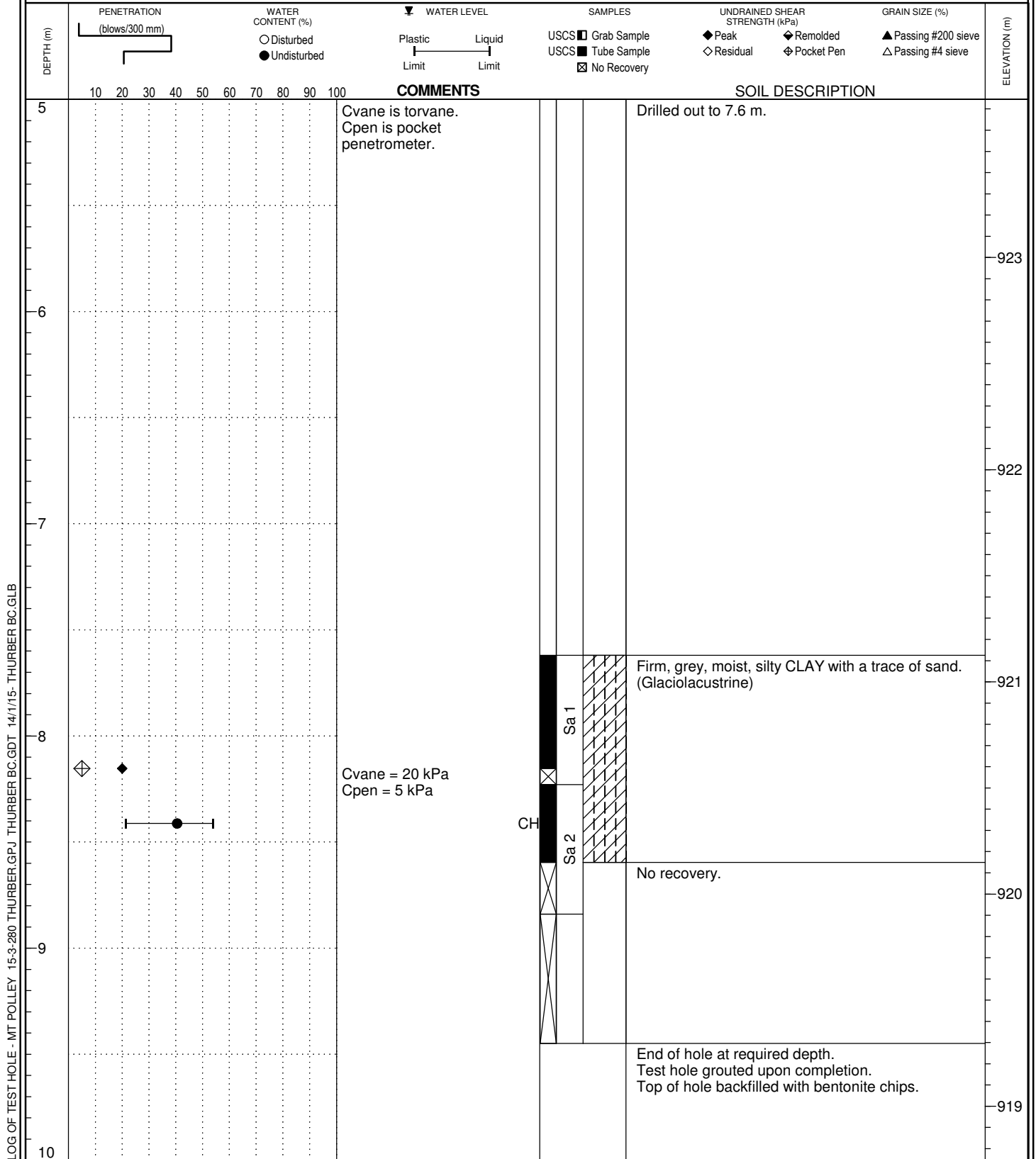
HOLE NO.  
**MR14-106D**

**LOCATION:** See Fig. 209  
E 595137, N 5819993



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel  
**PROJECT:** Mount Polley Tailings Dam Breach  
**DATE:** November 5, 2014  
**FILE NO.:** 15-3-280

**TOP OF HOLE ELEV:** 928.7 m  
**METHOD:** Mud Rotary  
**DRILLING CO.:** Geotech Drilling Ltd.  
**INSPECTOR:** BSP



LOG OF TEST HOLE - MT POLLEY 15-3-280 THURBER.GPJ THURBER BC.GDT 14/1/15 THURBER BC.GLB

HOLE NO.  
**MR14-106E**

**LOCATION:** See Fig. 209  
E 595134, N 5819990

**TOP OF HOLE ELEV:** 929.0 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** BSP



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** November 5 and 6, 2014

**FILE NO.:** 15-3-280

DEPTH (m)	PENETRATION (blows/300 mm)	WATER CONTENT (%) ○ Disturbed ● Undisturbed	WATER LEVEL ▼ Plastic Limit Liquid Limit	SAMPLES USCS ■ Grab Sample USCS ■ Tube Sample ☒ No Recovery	UNDRAINED SHEAR STRENGTH (kPa) ◆ Peak ◇ Residual ◆ Remolded ◆ Pocket Pen	GRAIN SIZE (%) ▲ Passing #200 sieve △ Passing #4 sieve	ELEVATION (m)
0							928
1							927
2							926
3							925
4							
5							

LOG OF TEST HOLE - MT POLLEY 15-3-280 THURBER.GPJ THURBER BC.GDT 14/1/15- THURBER BC.GLB

Drilled out to 7.1 m.

**LOCATION:** See Fig. 209  
E 595134, N 5819990

**TOP OF HOLE ELEV:** 929.0 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** BSP

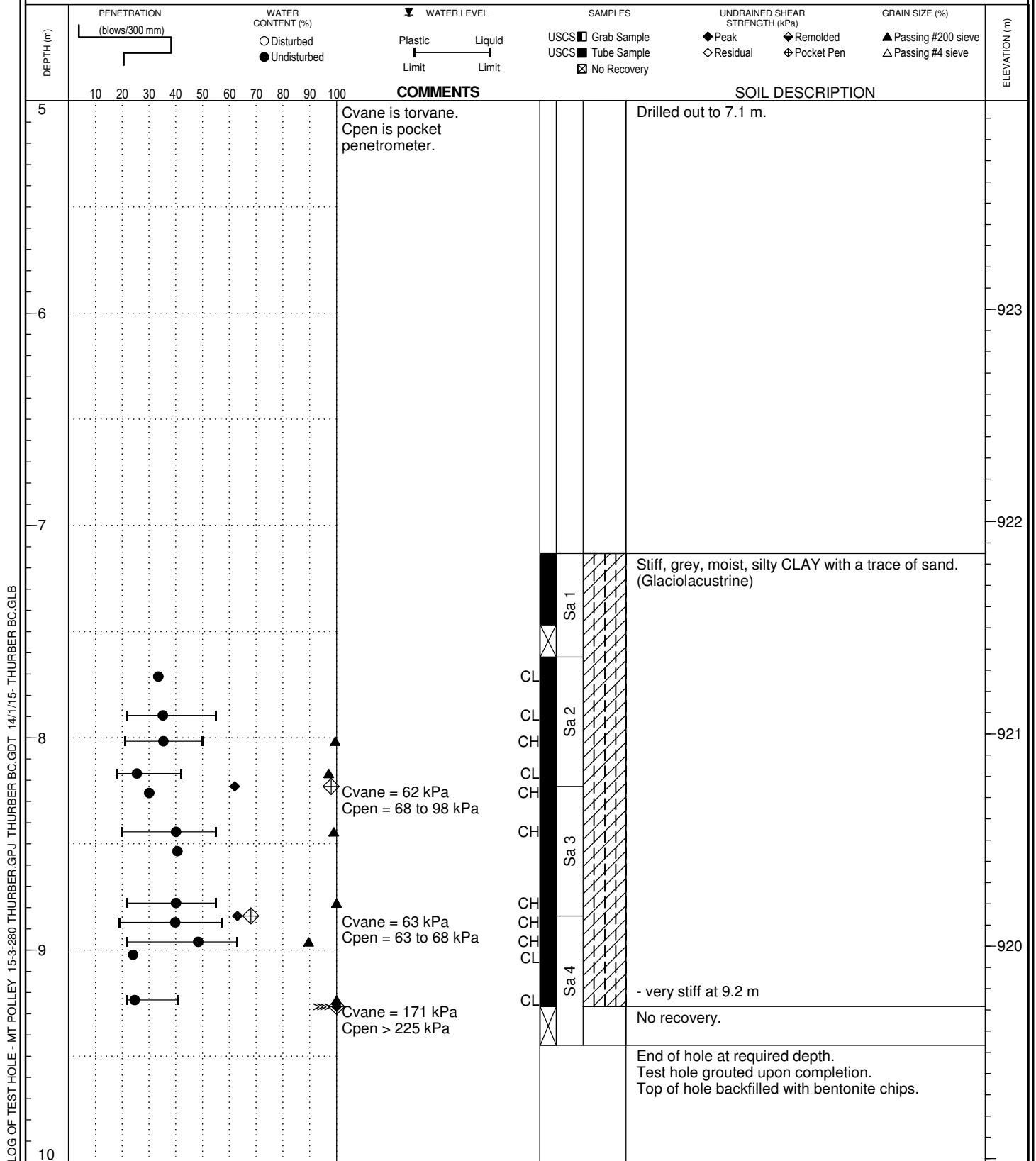


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** November 5 and 6, 2014

**FILE NO.:** 15-3-280



LOG OF TEST HOLE - MT POLLEY 15-3-280 THURBER.GPJ THURBER BC.GDT 14/1/15- THURBER BC.GLB

HOLE NO.  
**MR14-106F**

**LOCATION:** See Fig. 209  
E 595134, N 5819994

**TOP OF HOLE ELEV:** 928.7 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** BSP



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** November 6, 2014

**FILE NO.:** 15-3-280

LOG OF TEST HOLE - MT POLLEY 15-3-280 THURBER.GPJ THURBER BC.GDT 14/1/15- THURBER BC.GLB

DEPTH (m)	PENETRATION (blows/300 mm)	WATER CONTENT (%) ○ Disturbed ● Undisturbed	WATER LEVEL ▼ Plastic Limit      Liquid Limit	SAMPLES USCS ■ Grab Sample USCS ■ Tube Sample ☒ No Recovery	UNDRAINED SHEAR STRENGTH (kPa) ◆ Peak      ◆ Remolded ◇ Residual      ◇ Pocket Pen	GRAIN SIZE (%) ▲ Passing #200 sieve △ Passing #4 sieve	ELEVATION (m)
0							928
1							927
2							926
3							925
4							924
5							

**LOCATION:** See Fig. 209  
E 595134, N 5819994

**TOP OF HOLE ELEV:** 928.7 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** BSP

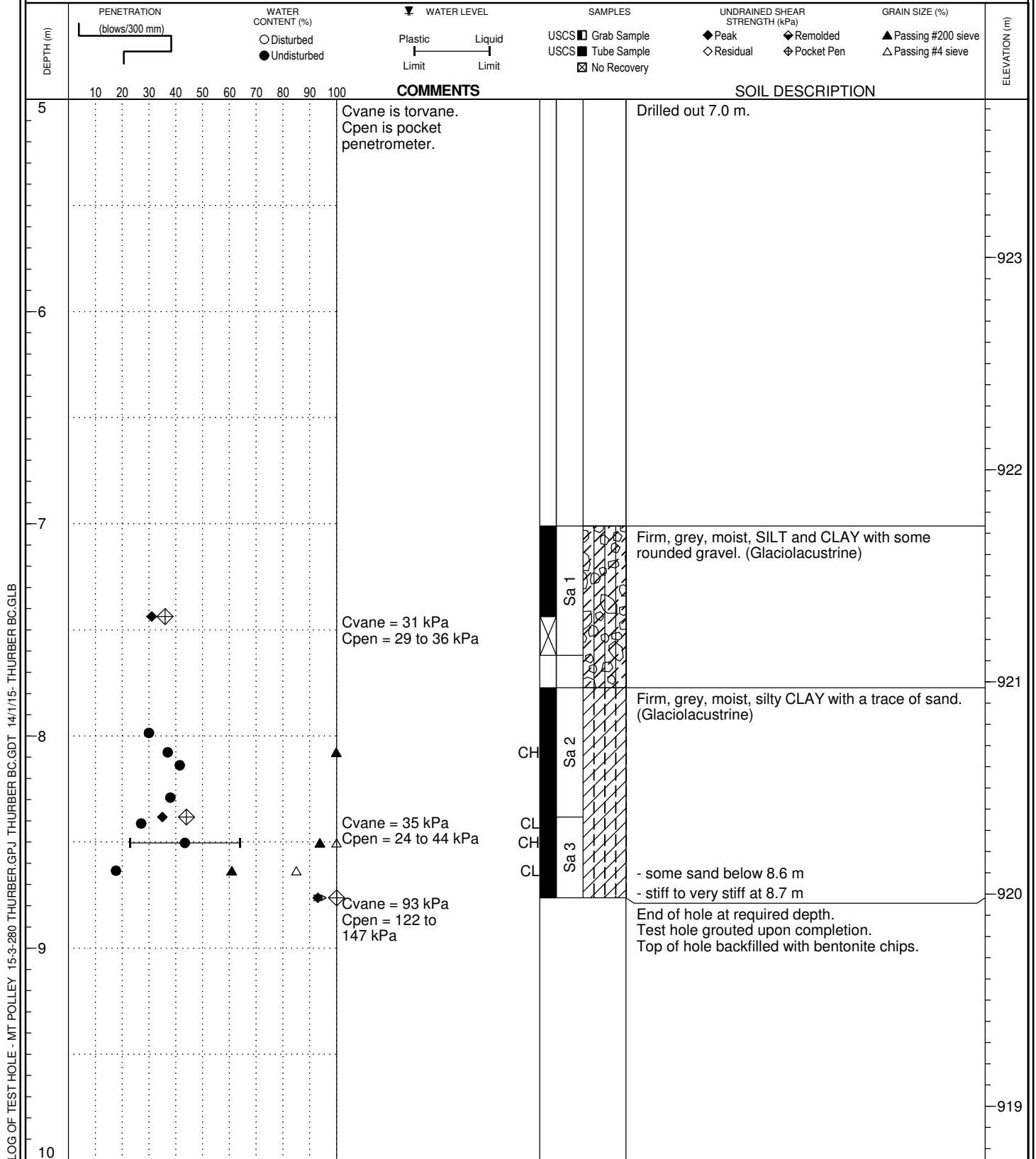


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** November 6, 2014

**FILE NO.:** 15-3-280



LOG OF TEST HOLE - MT POLLEY 15-3-280 THURBER.GPJ THURBER BC.GDT 14/1/15 THURBER BC.GLB

HOLE NO.  
**MR14-106G**

**LOCATION:** See Fig. 209  
E 595135, N 5819997

**TOP OF HOLE ELEV:** 928.7 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** BSP



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** November 6 and 7, 2014

**FILE NO.:** 15-3-280

DEPTH (m)	PENETRATION (blows/300 mm)	WATER CONTENT (%) ○ Disturbed ● Undisturbed	WATER LEVEL ▼ Plastic Limit      Liquid Limit	SAMPLES USCS <input type="checkbox"/> Grab Sample USCS <input type="checkbox"/> Tube Sample <input checked="" type="checkbox"/> No Recovery	UNDRAINED SHEAR STRENGTH (kPa) ◆ Peak      ◆ Remolded ◇ Residual      ◇ Pocket Pen	GRAIN SIZE (%) ▲ Passing #200 sieve △ Passing #4 sieve	ELEVATION (m)
0							928
1							927
2							926
3							925
4							924
5							

LOG OF TEST HOLE - MT POLLEY 15-3-280 THURBER.GPJ THURBER BC.GDT 14/1/15- THURBER BC.GLB

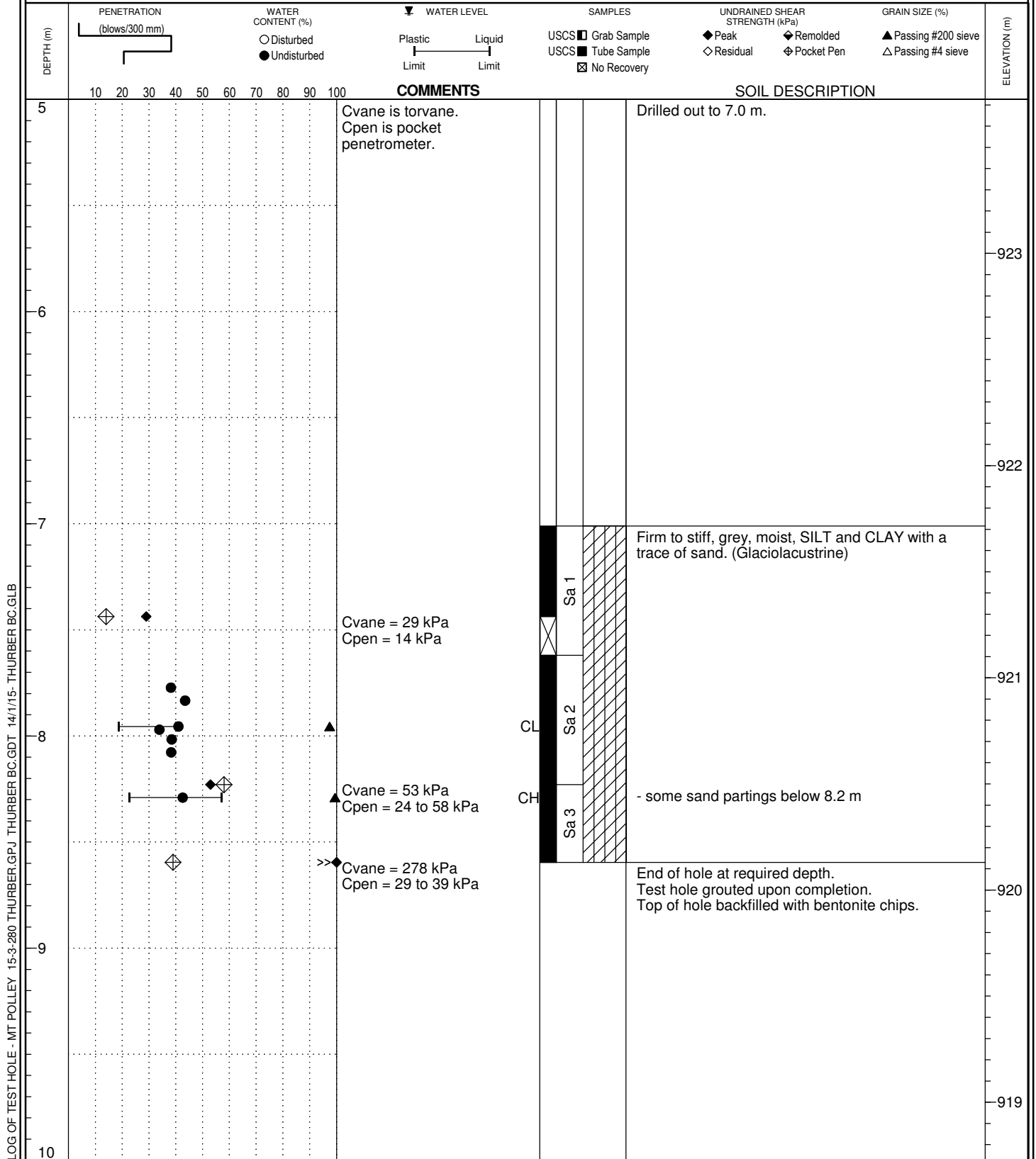
HOLE NO.  
**MR14-106G**

**LOCATION:** See Fig. 209  
E 595135, N 5819997



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel  
**PROJECT:** Mount Polley Tailings Dam Breach  
**DATE:** November 6 and 7, 2014  
**FILE NO.:** 15-3-280

**TOP OF HOLE ELEV:** 928.7 m  
**METHOD:** Mud Rotary  
**DRILLING CO.:** Geotech Drilling Ltd.  
**INSPECTOR:** BSP





**LOCATION:** See Fig. 209  
E 595135, N 5819998

**TOP OF HOLE ELEV:** 928.6 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** BSP



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** November 7, 2014

**FILE NO.:** 15-3-280

DEPTH (m)	PENETRATION (blows/300 mm)	WATER CONTENT (%) ○ Disturbed ● Undisturbed	WATER LEVEL ▼ Plastic Limit      Liquid Limit	SAMPLES USCS ■ Grab Sample USCS ■ Tube Sample ☒ No Recovery	UNDRAINED SHEAR STRENGTH (kPa) ◆ Peak      ◆ Remolded ◇ Residual      ◇ Pocket Pen	GRAIN SIZE (%) ▲ Passing #200 sieve △ Passing #4 sieve	ELEVATION (m)
0							928.6
1							927
2							926
3							925
4							924
5							924

LOG OF TEST HOLE - MT POLLEY 15-3-280 THURBER.GPJ THURBER BC.GDT 14/1/15- THURBER BC.GLB

Drilled out to 7.3 m.

**LOCATION:** See Fig. 209  
E 595135, N 5819998



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**TOP OF HOLE ELEV:** 928.6 m

**PROJECT:** Mount Polley Tailings Dam Breach

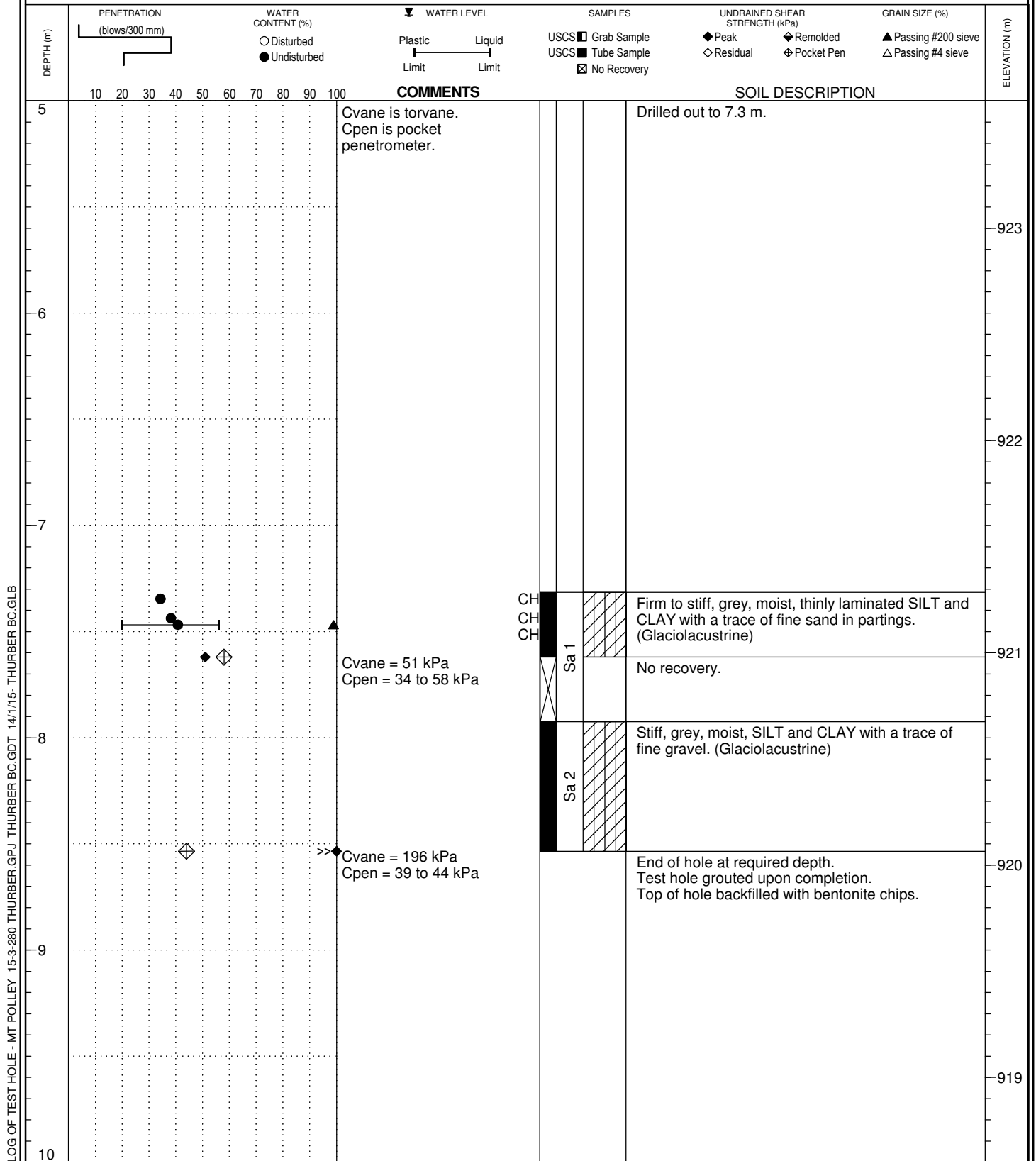
**METHOD:** Mud Rotary

**DATE:** November 7, 2014

**DRILLING CO.:** Geotech Drilling Ltd.

**FILE NO.:** 15-3-280

**INSPECTOR:** BSP



**LOCATION:** See Fig. 209  
E 595135, N 5820001

**TOP OF HOLE ELEV:** 928.6 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** BSP



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** November 7, 2014

**FILE NO.:** 15-3-280

DEPTH (m)	PENETRATION (blows/300 mm)	WATER CONTENT (%) ○ Disturbed ● Undisturbed	WATER LEVEL ▼ Plastic Limit      Liquid Limit	SAMPLES USCS ■ Grab Sample USCS ■ Tube Sample ☒ No Recovery	UNDRAINED SHEAR STRENGTH (kPa) ◆ Peak      ◆ Remolded ◇ Residual      ◇ Pocket Pen	GRAIN SIZE (%) ▲ Passing #200 sieve △ Passing #4 sieve	ELEVATION (m)
0							928.6
1							927
2							926
3							925
4							924
5							924

LOG OF TEST HOLE - MT POLLEY 15-3-280 THURBER.GPJ THURBER BC.GDT 14/1/15- THURBER BC.GLB

Drilled out to 7.3 m.

**LOCATION:** See Fig. 209  
E 595135, N 5820001



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** November 7, 2014

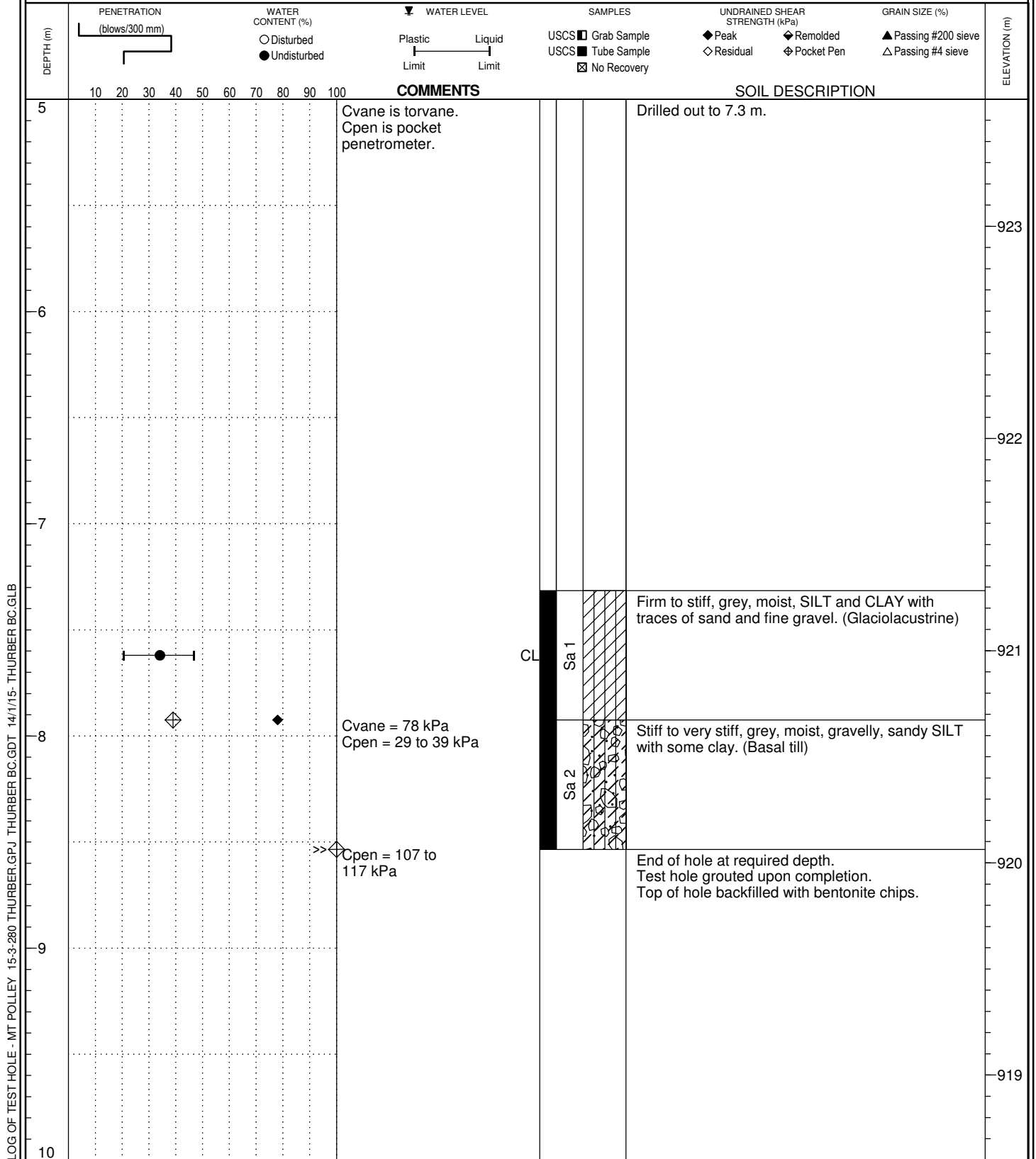
**FILE NO.:** 15-3-280

**TOP OF HOLE ELEV:** 928.6 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** BSP



**LOCATION:** See Fig. 209  
E 595131, N 5820013

**TOP OF HOLE ELEV:** 928.7 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB

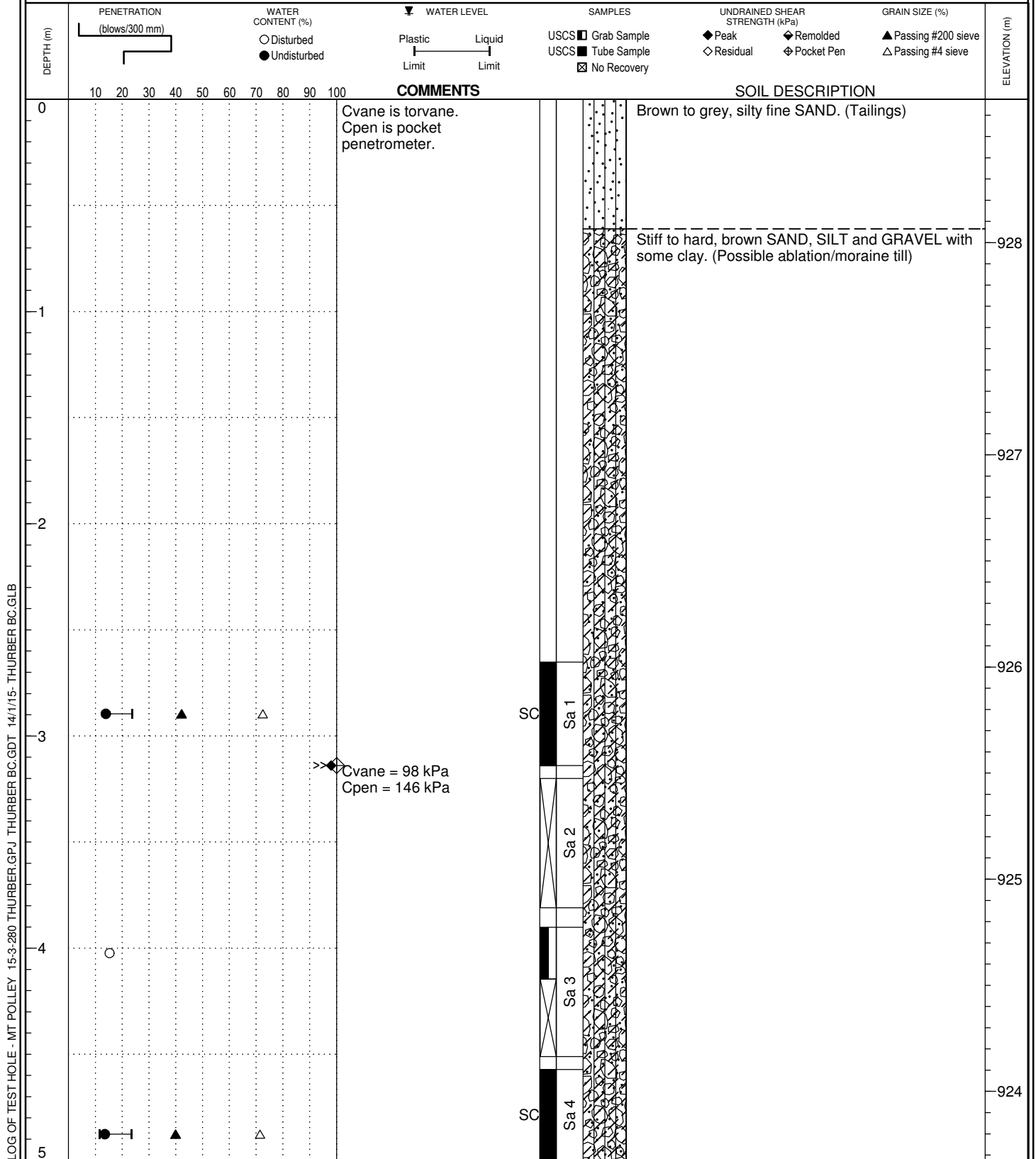


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 21, 2014

**FILE NO.:** 15-3-280



**LOCATION:** See Fig. 209  
E 595131, N 5820013

**TOP OF HOLE ELEV:** 928.7 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB

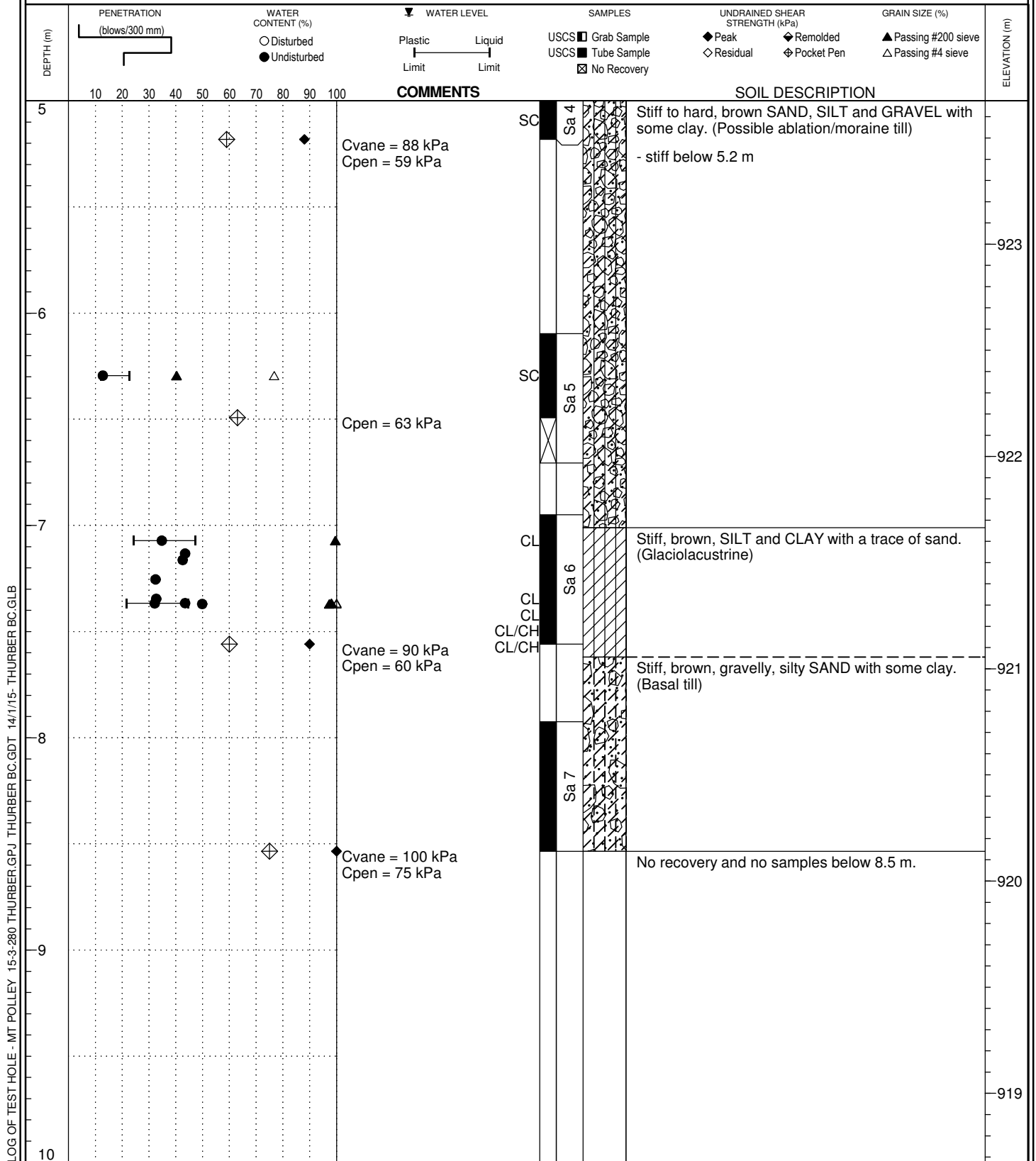


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 21, 2014

**FILE NO.:** 15-3-280



**LOCATION:** See Fig. 209  
E 595131, N 5820013

**TOP OF HOLE ELEV:** 928.7 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 21, 2014

**FILE NO.:** 15-3-280

DEPTH (m)	PENETRATION (blows/300 mm)	WATER CONTENT (%) ○ Disturbed ● Undisturbed	WATER LEVEL ▼ Plastic Limit      Liquid Limit	SAMPLES USCS ■ Grab Sample USCS ■ Tube Sample ☒ No Recovery	UNDRAINED SHEAR STRENGTH (kPa) ◆ Peak      ◆ Remolded ◇ Residual      ◇ Pocket Pen	GRAIN SIZE (%) ▲ Passing #200 sieve △ Passing #4 sieve	ELEVATION (m)
10							918
							917
11							916
							915
12							914
13							
14							
15							

LOG OF TEST HOLE - MT POLLEY 15-3-280 THURBER.GPJ THURBER BC.GDT 14/1/15- THURBER BC.GLB

No recovery and no samples below 8.5 m.

End of hole at required depth.  
Test hole grouted upon completion.  
Top of hole backfilled with bentonite chips.

HOLE NO.  
**MR14-107A**

**LOCATION:** See Fig. 209  
E 595132, N 5820013

**TOP OF HOLE ELEV:** 928.3 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 30, 2014

**FILE NO.:** 15-3-280

DEPTH (m)	PENETRATION (blows/300 mm)	WATER CONTENT (%) ○ Disturbed ● Undisturbed	WATER LEVEL ▼ Plastic Limit      Liquid Limit	SAMPLES USCS ■ Grab Sample USCS ■ Tube Sample ☒ No Recovery	UNDRAINED SHEAR STRENGTH (kPa) ◆ Peak      ◆ Remolded ◇ Residual      ◇ Pocket Pen	GRAIN SIZE (%) ▲ Passing #200 sieve △ Passing #4 sieve	ELEVATION (m)
0							928
1							927
2							926
3							925
4							924
5							

LOG OF TEST HOLE - MT POLLEY 15-3-280 THURBER.GPJ THURBER BC.GDT 14/1/15- THURBER BC.GLB



**LOCATION:** See Fig. 209  
E 595132, N 5820013

**TOP OF HOLE ELEV:** 928.3 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB

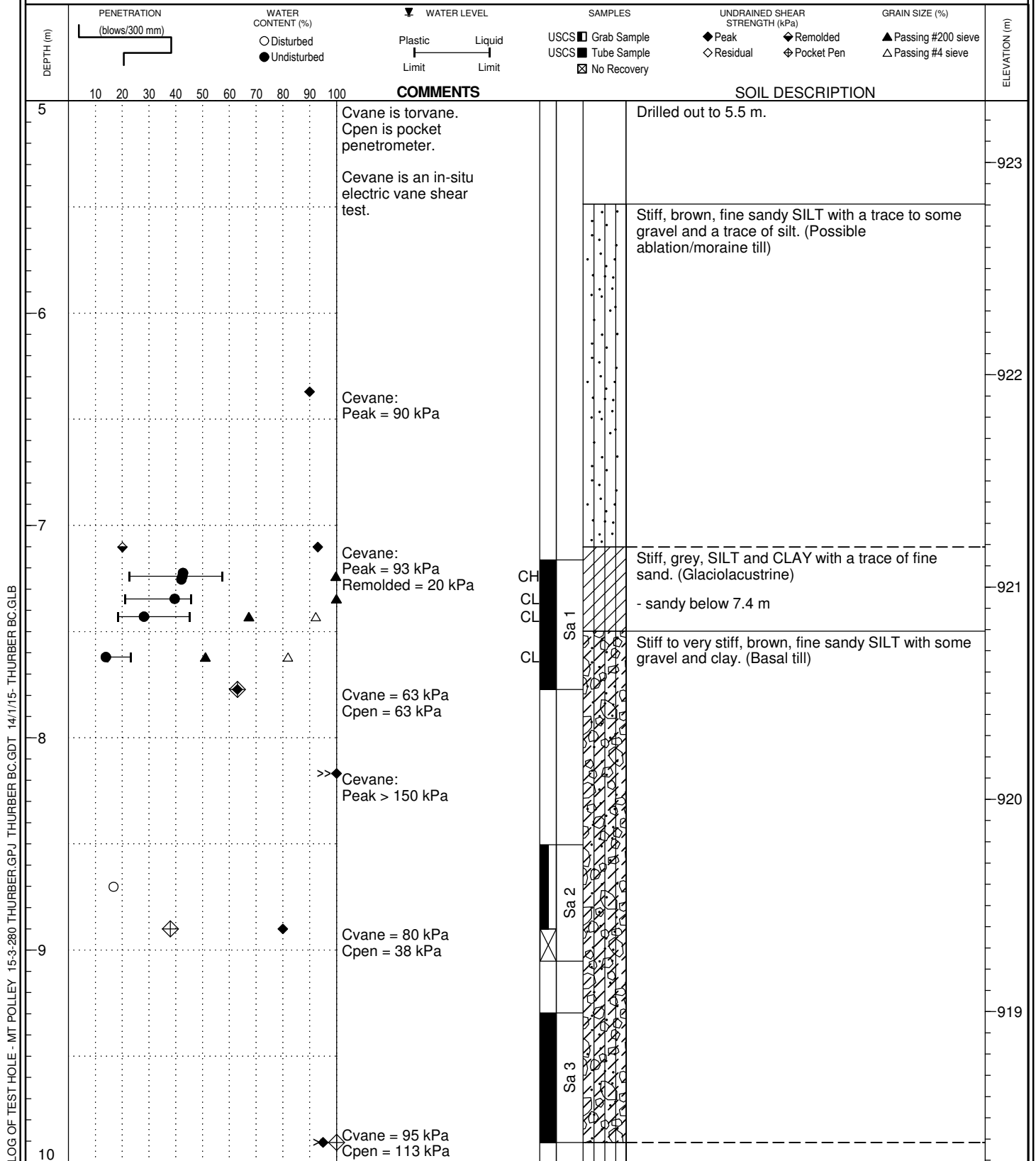


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 30, 2014

**FILE NO.:** 15-3-280





**LOCATION:** See Fig. 209  
E 595129, N 5820013

**TOP OF HOLE ELEV:** 928.4 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** November 1, 2014

**FILE NO.:** 15-3-280

DEPTH (m)	PENETRATION (blows/300 mm)	WATER CONTENT (%) ○ Disturbed ● Undisturbed	WATER LEVEL ▼ Plastic Limit      Liquid Limit	SAMPLES USCS ■ Grab Sample USCS ■ Tube Sample ☒ No Recovery	UNDRAINED SHEAR STRENGTH (kPa) ◆ Peak      ◆ Remolded ◇ Residual      ◇ Pocket Pen	GRAIN SIZE (%) ▲ Passing #200 sieve △ Passing #4 sieve	ELEVATION (m)
0							928
1							927
2							926
3							925
4							924
5							

LOG OF TEST HOLE - MT POLLEY 15-3-280 THURBER.GPJ THURBER BC.GDT 14/1/15- THURBER BC.GLB

Test hole drilled to complete vane shear testing.

Drilled out to 6.6 m.

**LOCATION:** See Fig. 209  
E 595129, N 5820013

**TOP OF HOLE ELEV:** 928.4 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB

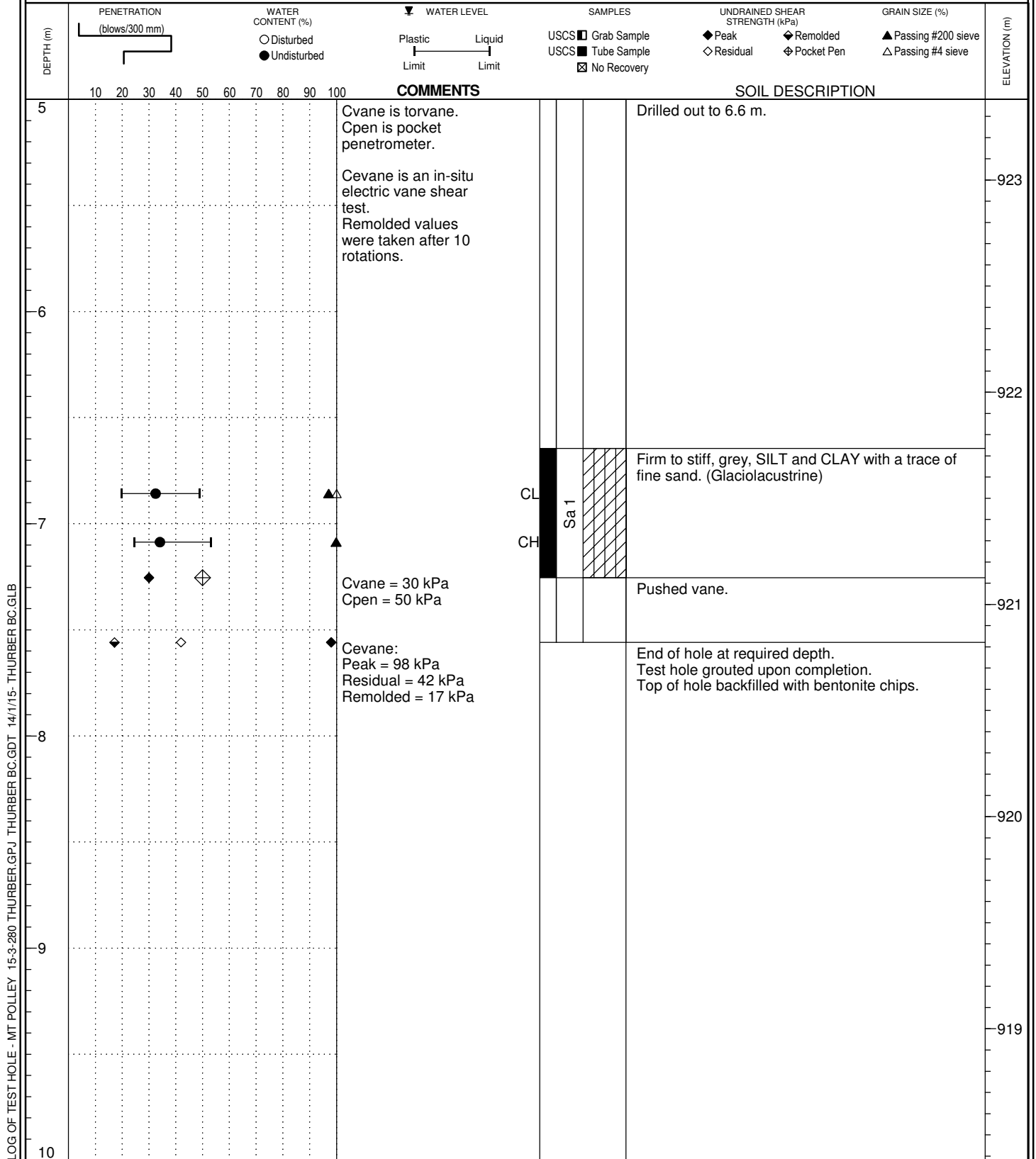


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** November 1, 2014

**FILE NO.:** 15-3-280



**LOCATION:** See Fig. 209  
E 595105, N 5820013

**TOP OF HOLE ELEV:** 928.6 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB

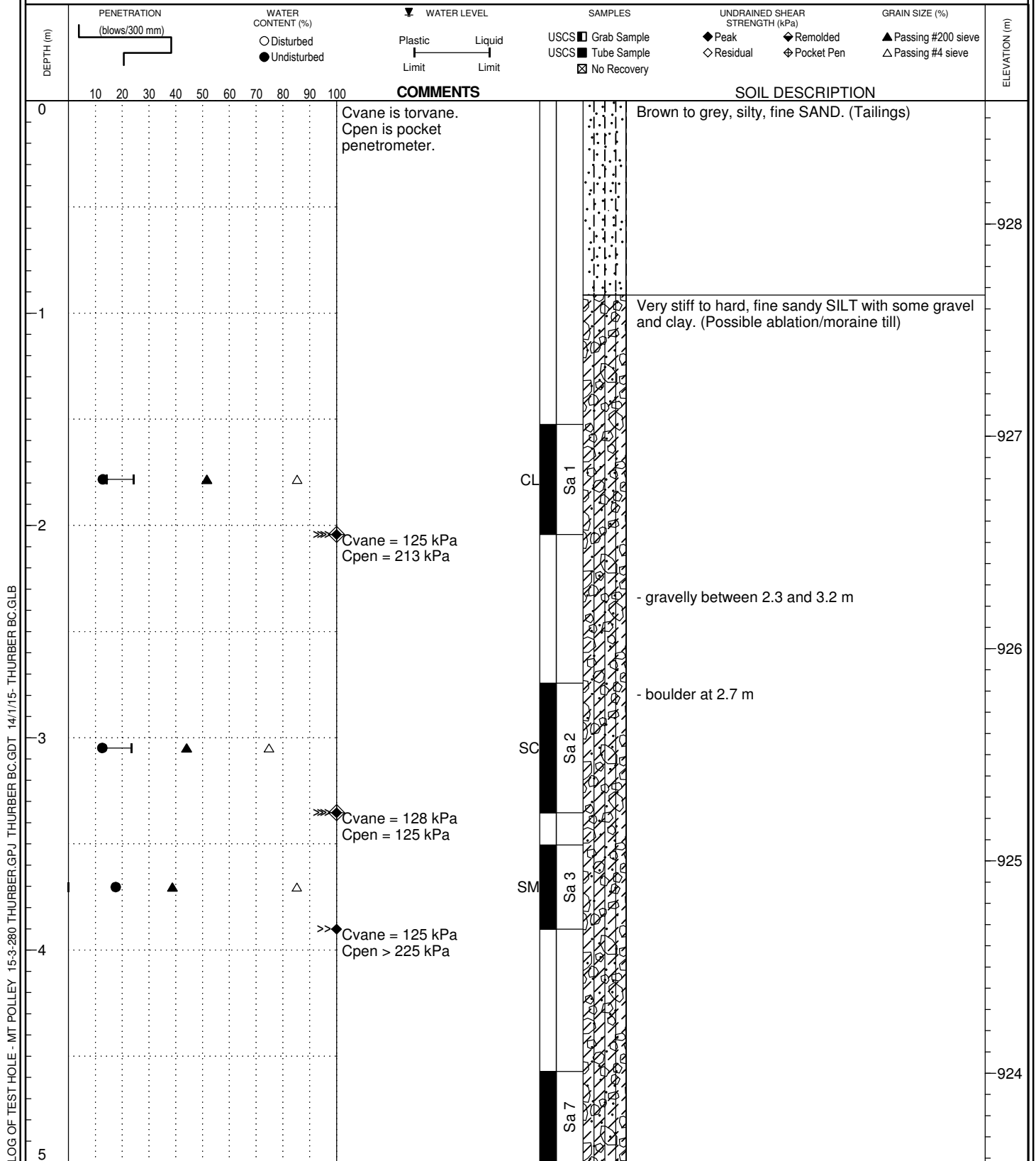


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 24, 2014

**FILE NO.:** 15-3-280



**LOCATION:** See Fig. 209  
E 595105, N 5820013

**TOP OF HOLE ELEV:** 928.6 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB

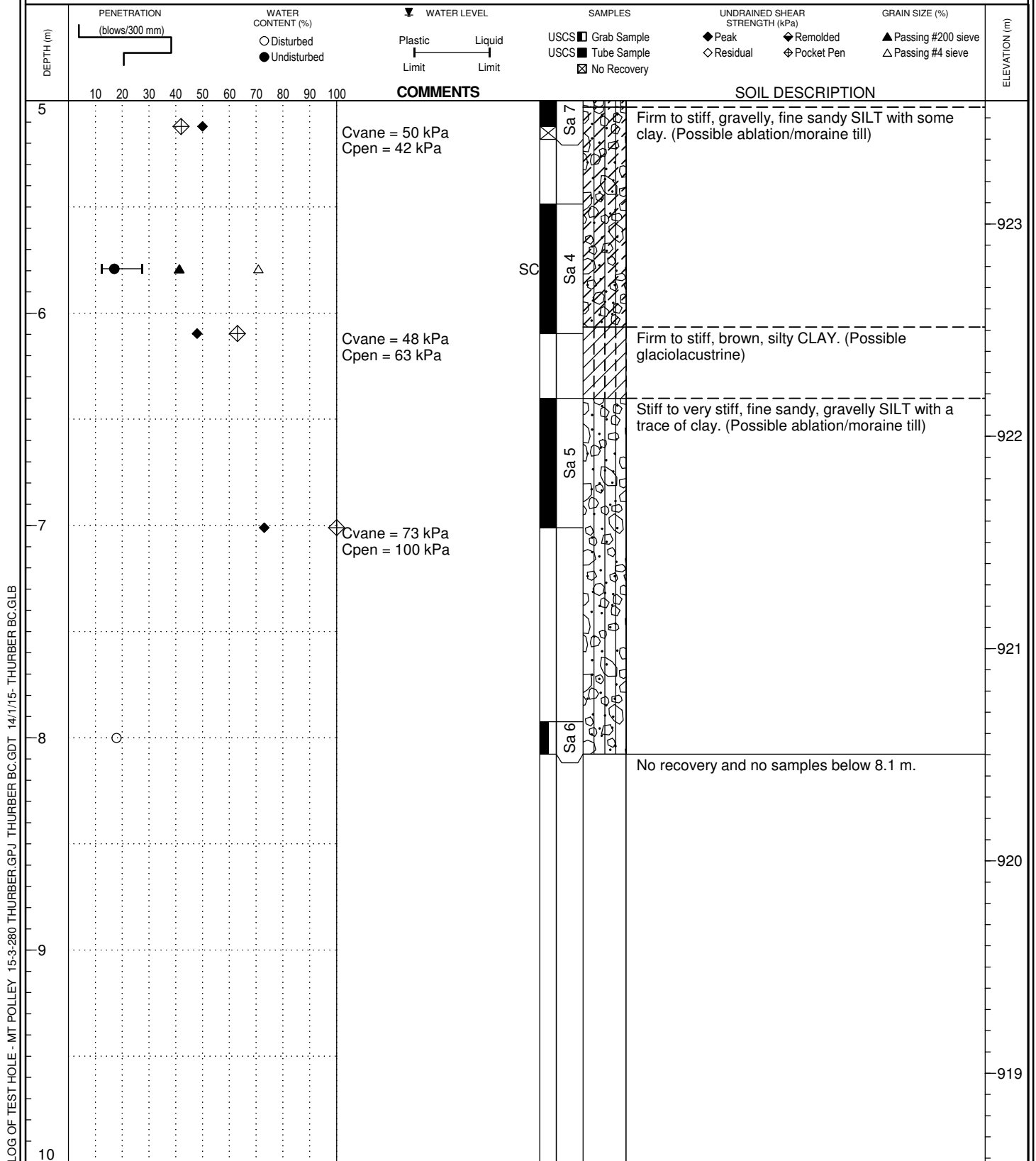


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 24, 2014

**FILE NO.:** 15-3-280



**LOCATION:** See Fig. 209  
E 595105, N 5820013

**TOP OF HOLE ELEV:** 928.6 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 24, 2014

**FILE NO.:** 15-3-280

DEPTH (m)	PENETRATION (blows/300 mm)	WATER CONTENT (%) ○ Disturbed ● Undisturbed	WATER LEVEL ▼ Plastic Limit      Liquid Limit	SAMPLES USCS ■ Grab Sample USCS ■ Tube Sample ☒ No Recovery	UNDRAINED SHEAR STRENGTH (kPa) ◆ Peak      ◆ Remolded ◇ Residual      ◇ Pocket Pen	GRAIN SIZE (%) ▲ Passing #200 sieve △ Passing #4 sieve	ELEVATION (m)
10							918
11							917
12							916
13							915
14							914
15							

LOG OF TEST HOLE - MT POLLEY 15-3-280 THURBER.GPJ THURBER BC.GDT 14/1/15- THURBER BC.GLB

No recovery and no samples below 8.1 m.

End of hole at required depth.  
Test hole grouted upon completion.  
Top of hole backfilled with bentonite chips.

**LOCATION:** See Fig. 209  
E 595106, N 5820014

**TOP OF HOLE ELEV:** 928.6 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 29, 2014

**FILE NO.:** 15-3-280

DEPTH (m)	PENETRATION (blows/300 mm)	WATER CONTENT (%) ○ Disturbed ● Undisturbed	WATER LEVEL ▼ Plastic Limit      Liquid Limit	SAMPLES USCS ■ Grab Sample USCS ■ Tube Sample ☒ No Recovery	UNDRAINED SHEAR STRENGTH (kPa) ◆ Peak      ◆ Remolded ◇ Residual      ◇ Pocket Pen	GRAIN SIZE (%) ▲ Passing #200 sieve △ Passing #4 sieve	ELEVATION (m)
0							928.6
1							928
2							927
3							926
4							925
5							924

LOG OF TEST HOLE - MT POLLEY 15-3-280 THURBER.GPJ THURBER BC.GDT 14/1/15- THURBER BC.GLB

Drilled out to 8.5 m.



**LOCATION:** See Fig. 209  
E 595106, N 5820014

**TOP OF HOLE ELEV:** 928.6 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB

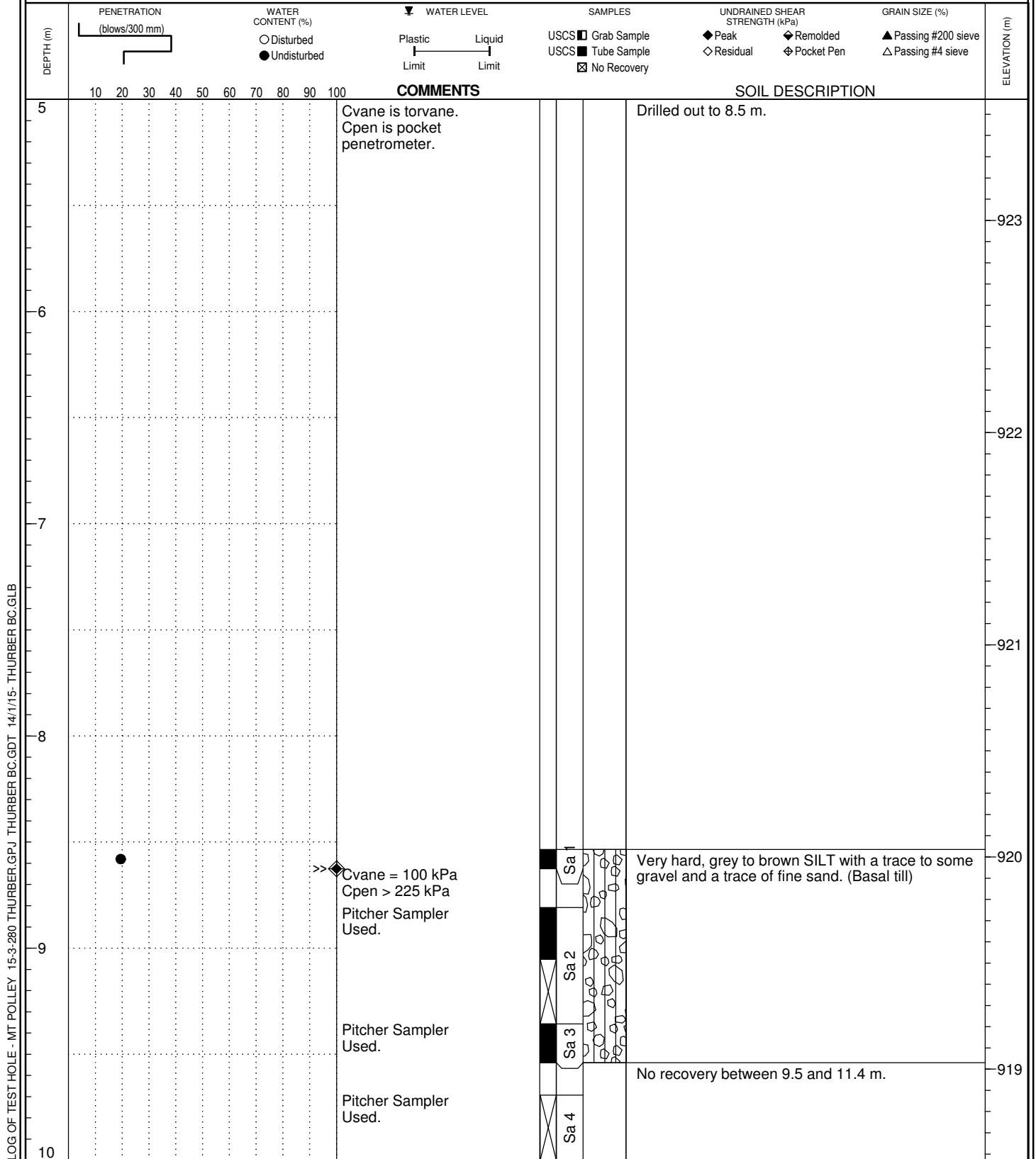


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 29, 2014

**FILE NO.:** 15-3-280



**LOCATION:** See Fig. 209  
E 595106, N 5820014

**TOP OF HOLE ELEV:** 928.6 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB

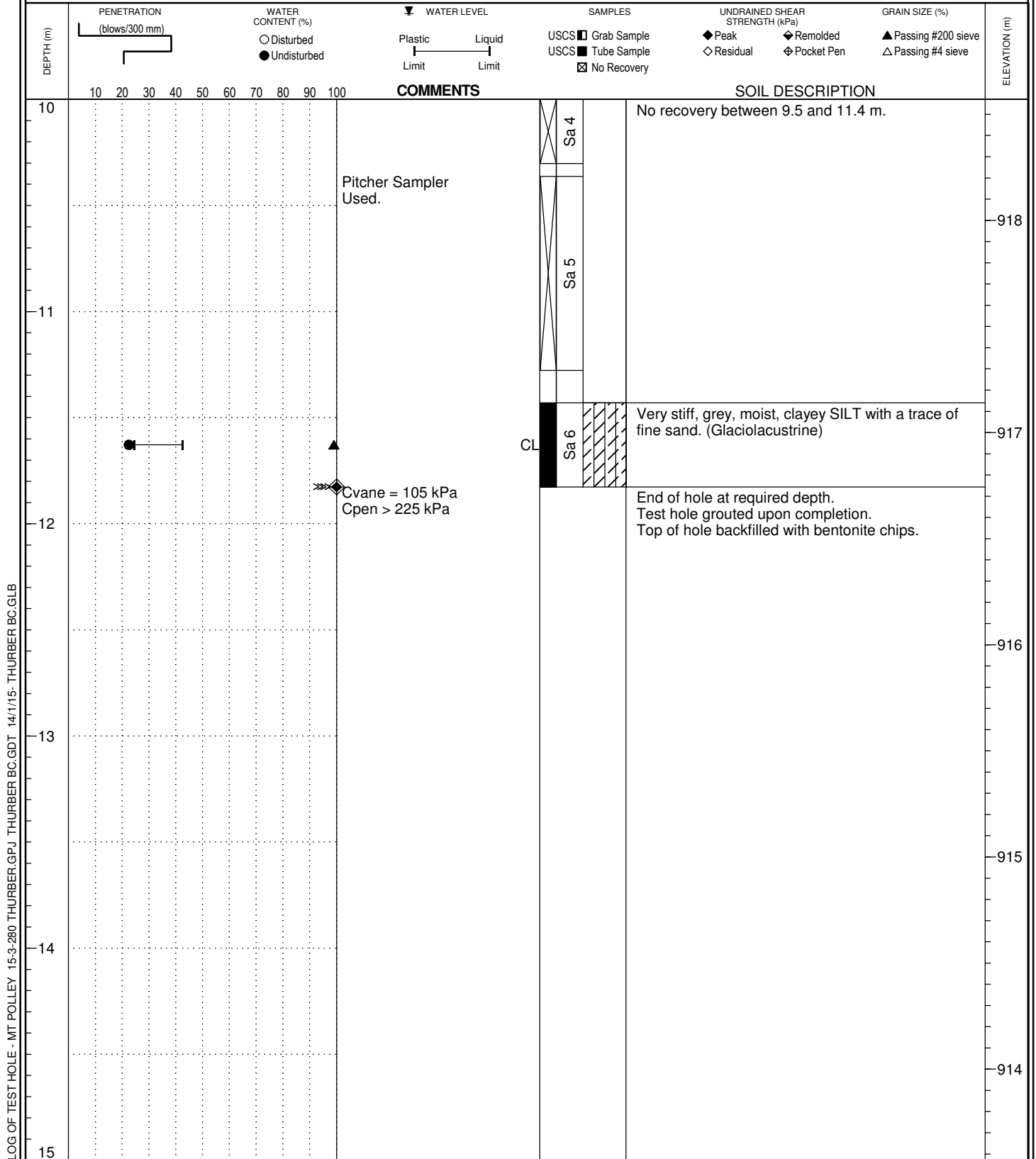


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 29, 2014

**FILE NO.:** 15-3-280



**LOCATION:** See Fig. 209  
E 595087, N 5820022

**TOP OF HOLE ELEV:** 929.0 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB

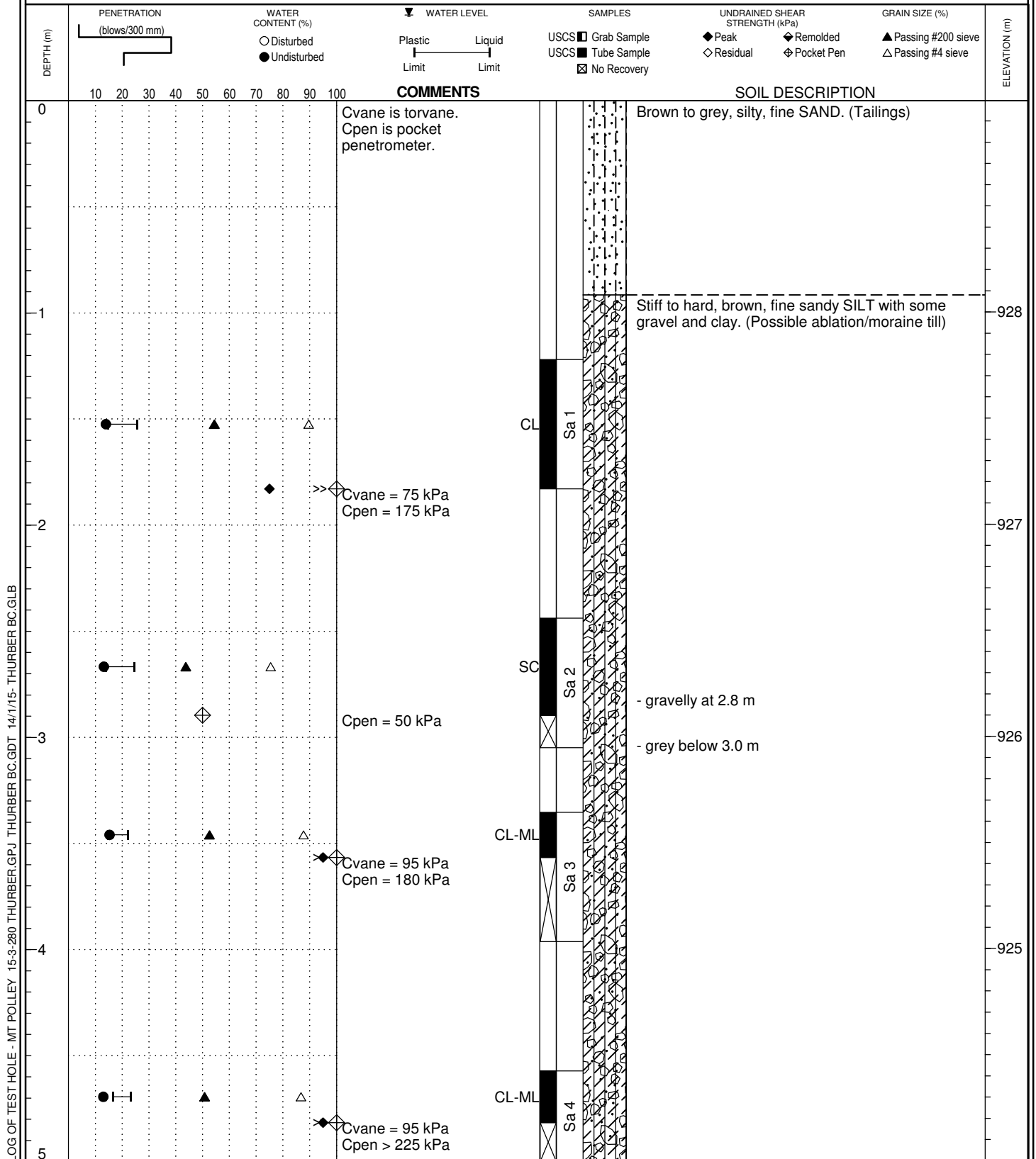


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 24, 2014

**FILE NO.:** 15-3-280



**LOCATION:** See Fig. 209  
E 595087, N 5820022

**TOP OF HOLE ELEV:** 929.0 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB

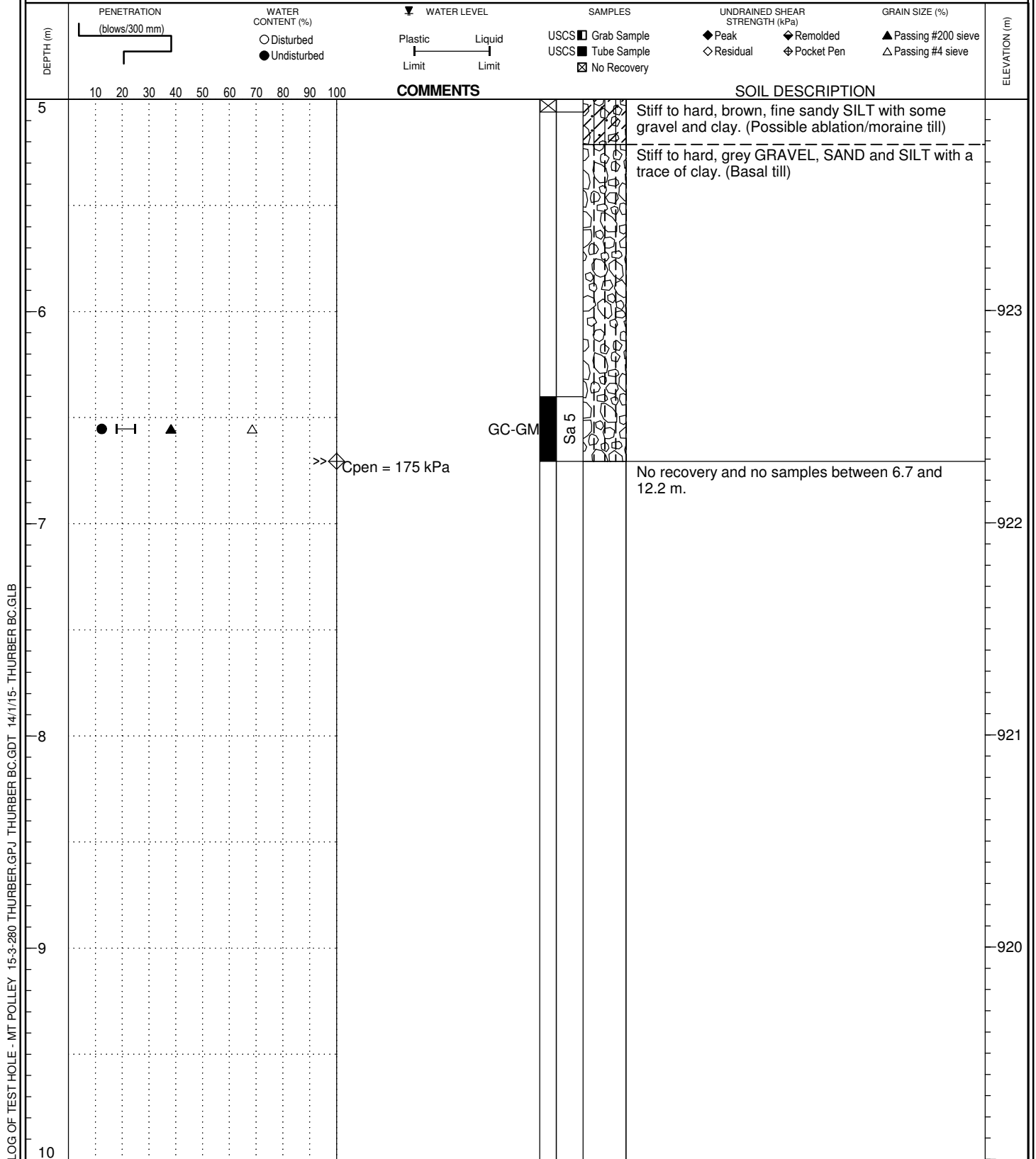


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 24, 2014

**FILE NO.:** 15-3-280



**LOCATION:** See Fig. 209  
E 595087, N 5820022

**TOP OF HOLE ELEV:** 929.0 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB

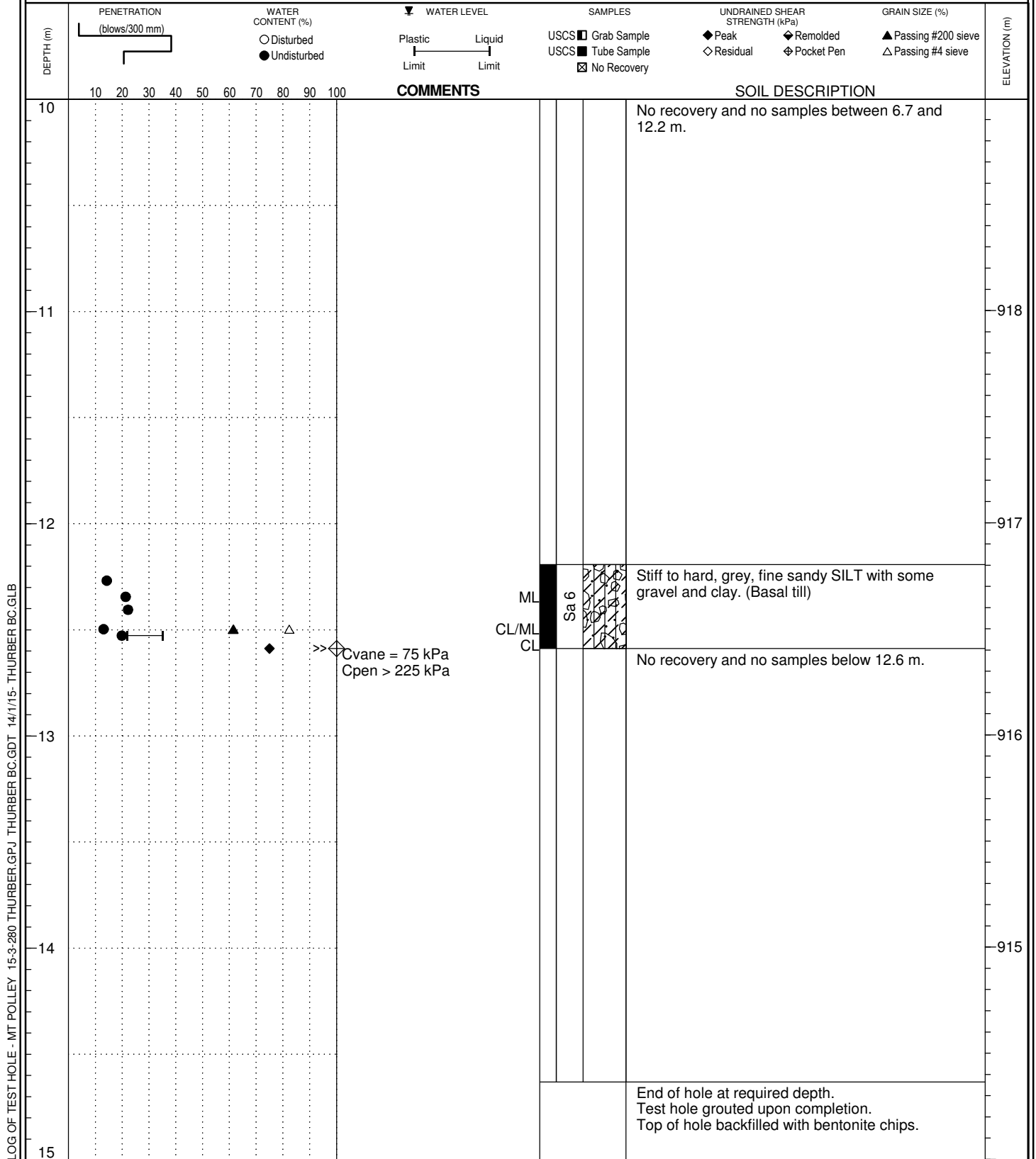


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 24, 2014

**FILE NO.:** 15-3-280



**LOCATION:** See Fig. 209  
E 595092, N 5820037



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**TOP OF HOLE ELEV:** 928.7 m

**PROJECT:** Mount Polley Tailings Dam Breach

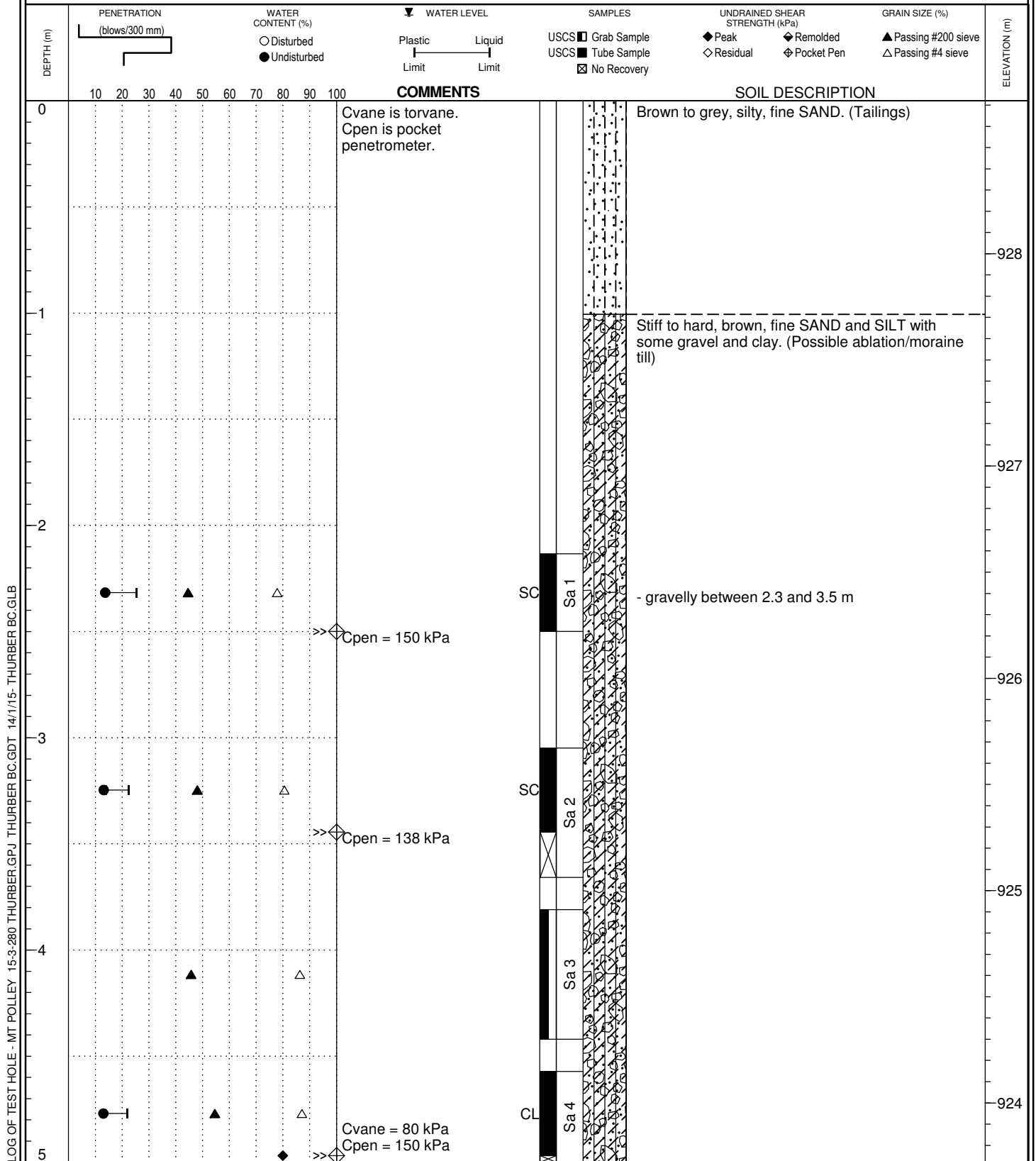
**METHOD:** Mud Rotary

**DATE:** October 23, 2014

**DRILLING CO.:** Geotech Drilling Ltd.

**FILE NO.:** 15-3-280

**INSPECTOR:** TB



**LOCATION:** See Fig. 209  
E 595092, N 5820037

**TOP OF HOLE ELEV:** 928.7 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB

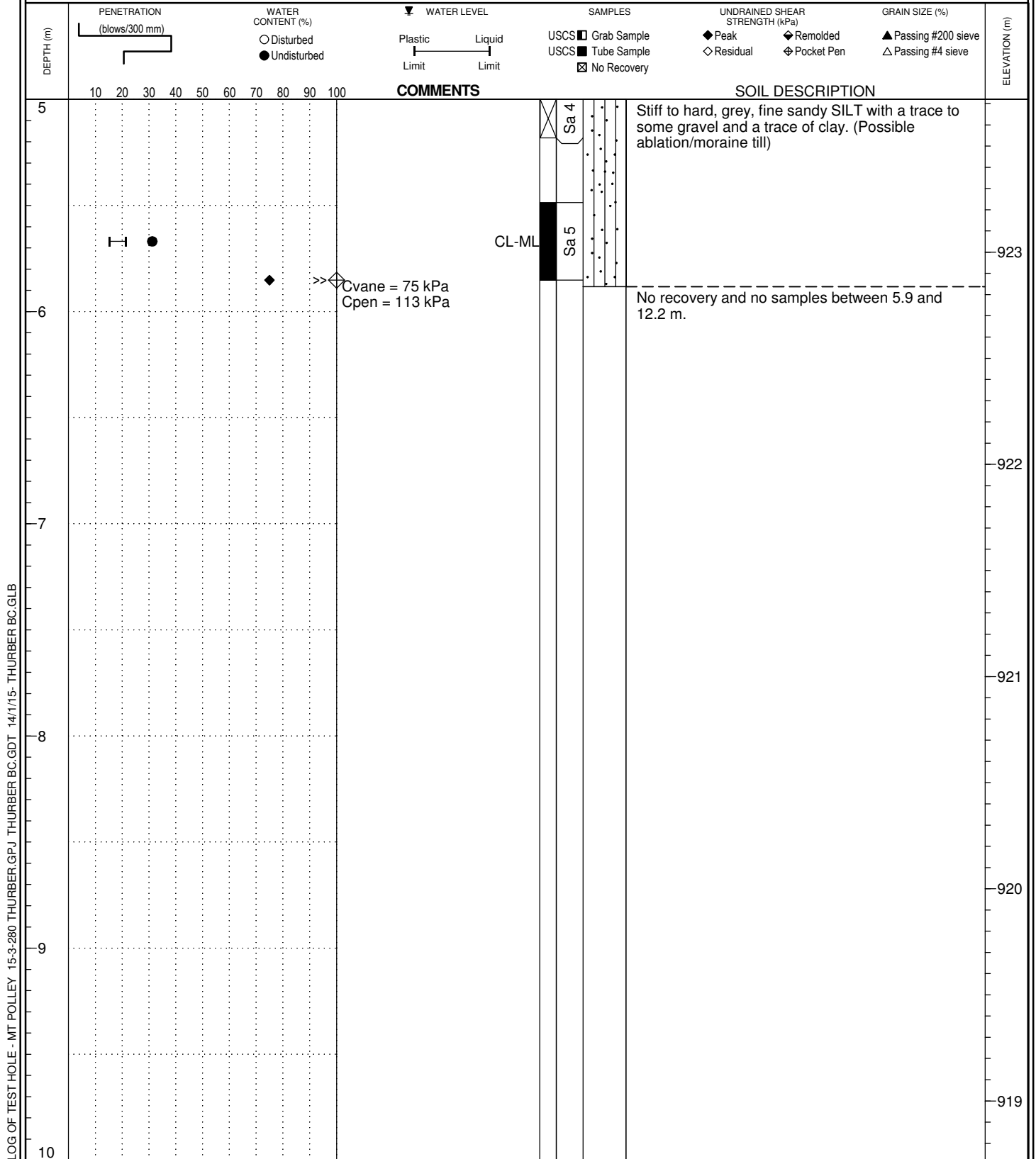


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 23, 2014

**FILE NO.:** 15-3-280



**LOCATION:** See Fig. 209  
E 595092, N 5820037

**TOP OF HOLE ELEV:** 928.7 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB

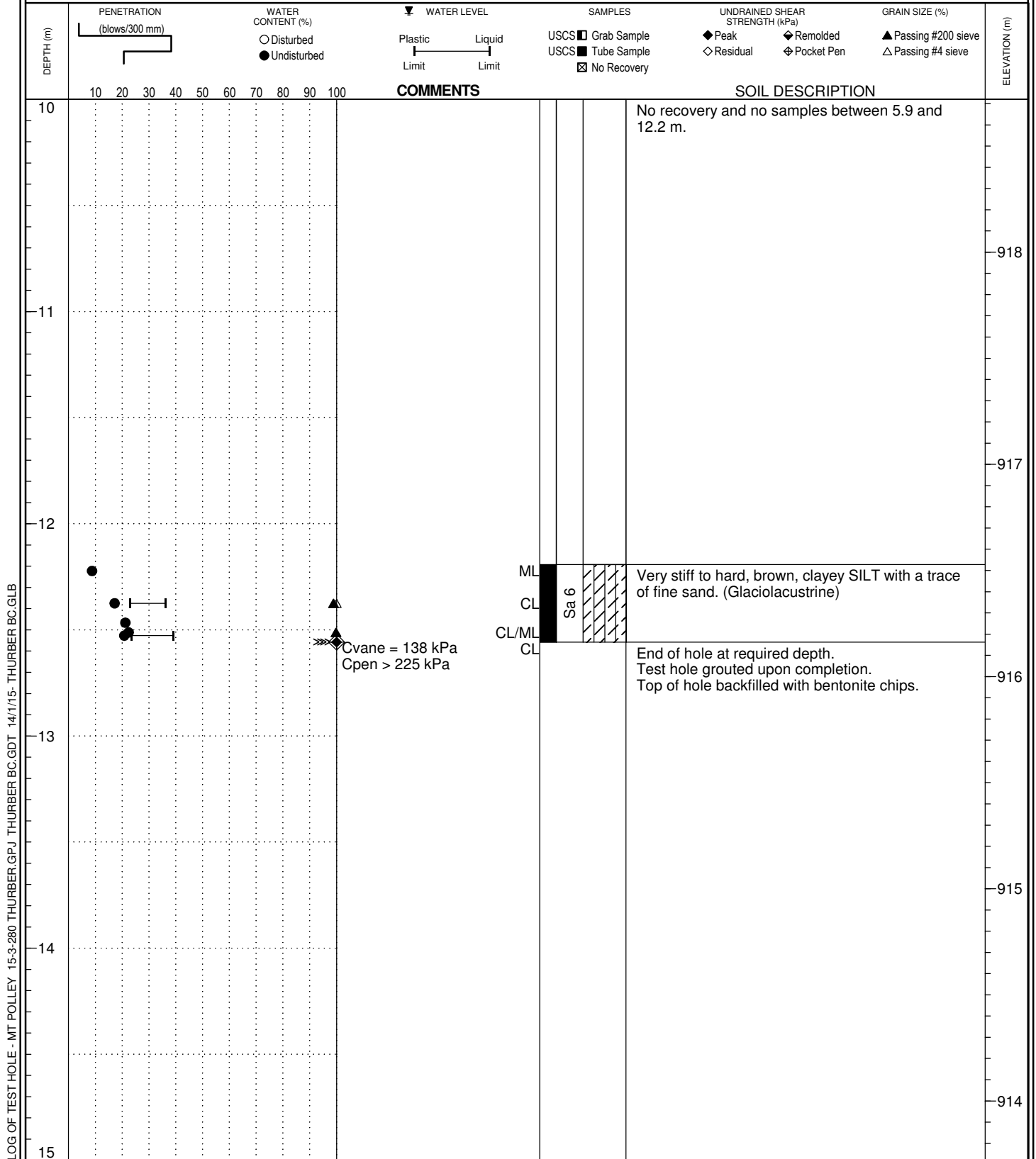


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 23, 2014

**FILE NO.:** 15-3-280





**LOCATION:** See Fig. 209  
E 595115, N 5820044

**TOP OF HOLE ELEV:** 928.6 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB

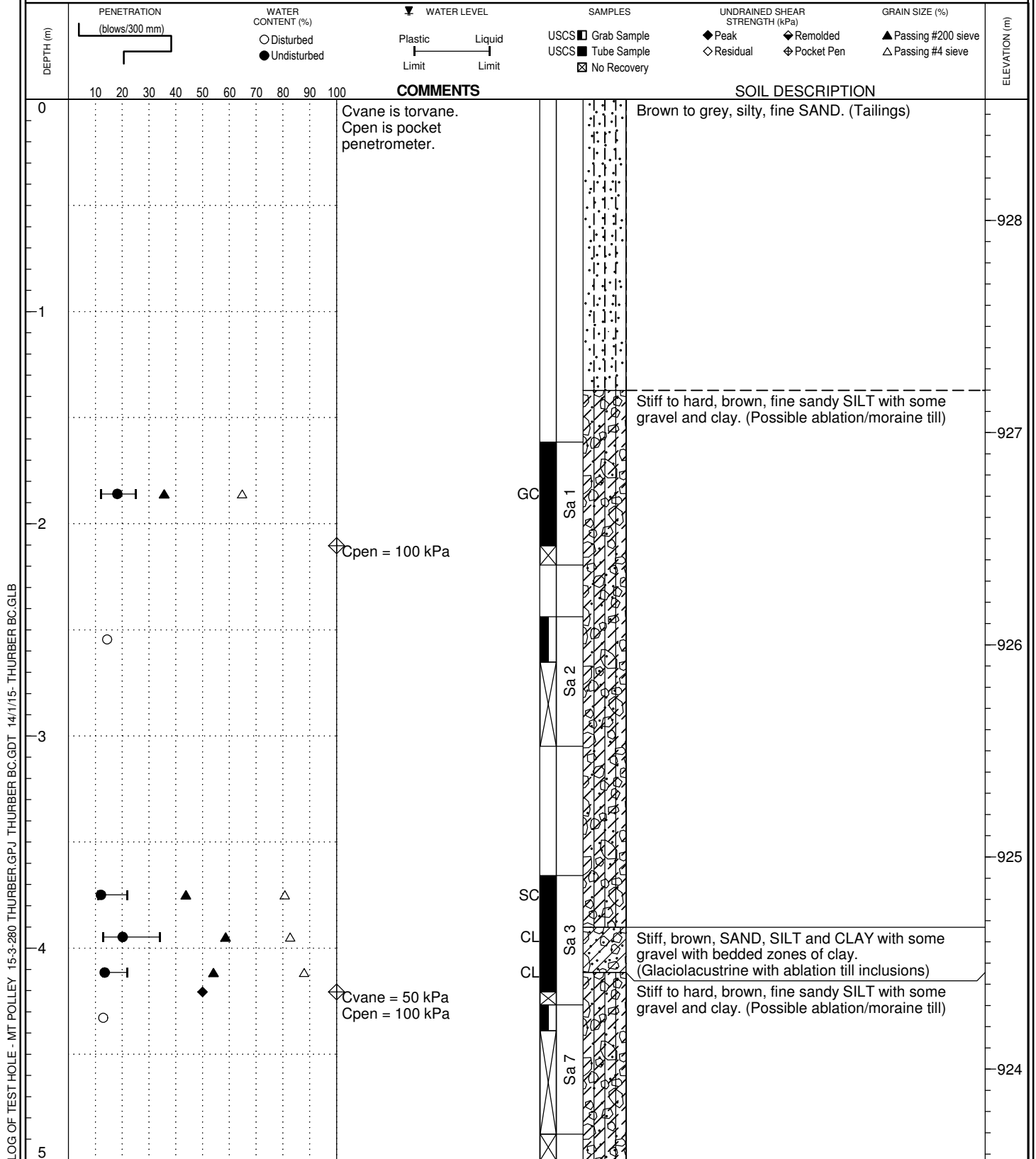


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 23, 2014

**FILE NO.:** 15-3-280



**LOCATION:** See Fig. 209  
E 595115, N 5820044

**TOP OF HOLE ELEV:** 928.6 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB

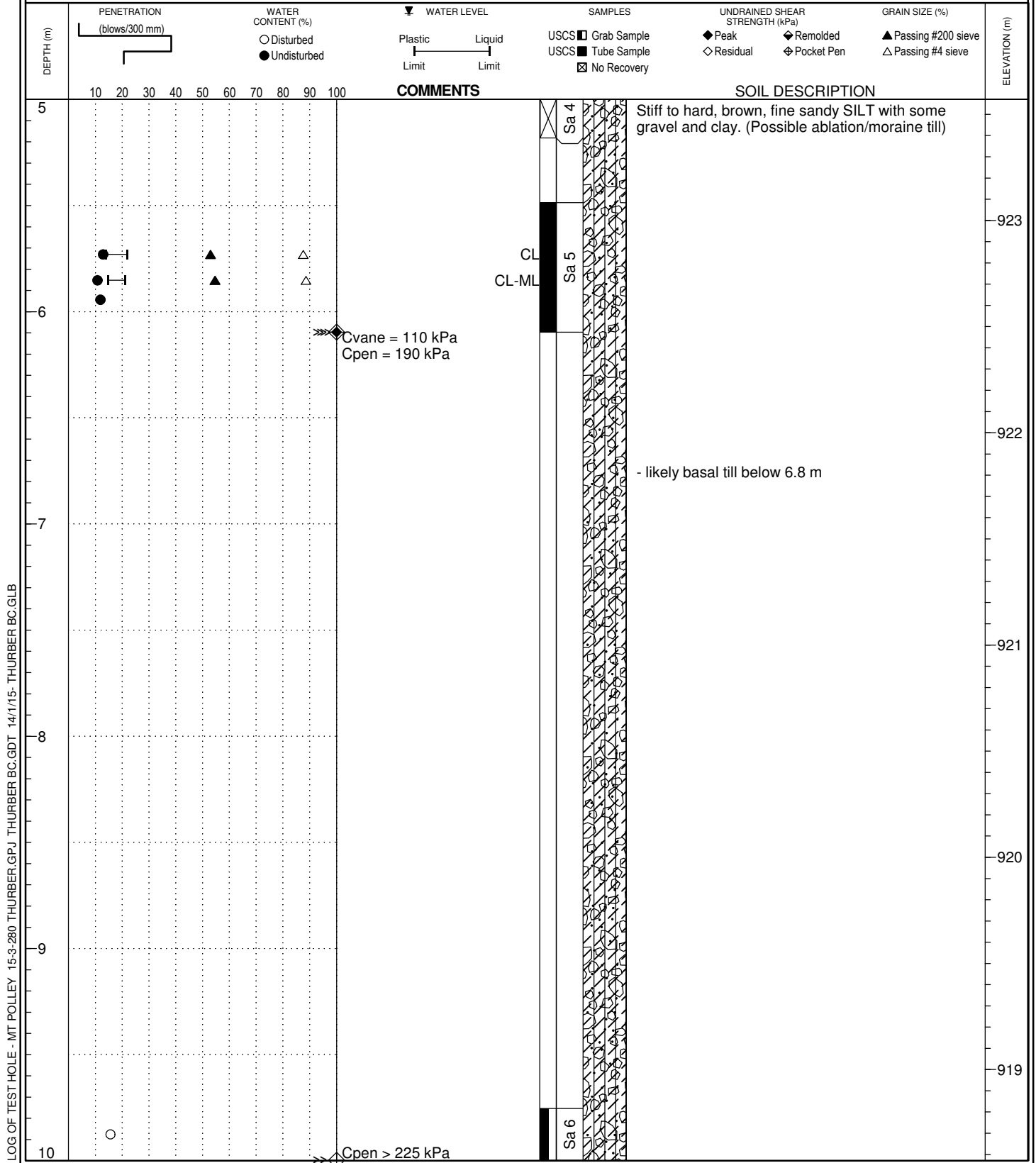


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 23, 2014

**FILE NO.:** 15-3-280



**LOCATION:** See Fig. 209  
E 595115, N 5820044

**TOP OF HOLE ELEV:** 928.6 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 23, 2014

**FILE NO.:** 15-3-280

DEPTH (m)	PENETRATION (blows/300 mm)	WATER CONTENT (%) ○ Disturbed ● Undisturbed	WATER LEVEL ▼ Plastic Limit      Liquid Limit	SAMPLES USCS ■ Grab Sample USCS ■ Tube Sample ☒ No Recovery	UNDRAINED SHEAR STRENGTH (kPa) ◆ Peak      ◆ Remolded ◇ Residual      ◇ Pocket Pen	GRAIN SIZE (%) ▲ Passing #200 sieve △ Passing #4 sieve	ELEVATION (m)
10							918
11							917
12							916
13							915
14							914
15							

LOG OF TEST HOLE - MT POLLEY 15-3-280 THURBER.GPJ THURBER BC.GDT 14/1/15- THURBER BC.GLB

No recovery and no samples below 10.0 m.

End of hole at required depth.  
Test hole grouted upon completion.  
Top of hole backfilled with bentonite chips.

HOLE NO.  
**MR14-111A**

**LOCATION:** See Fig. 209  
E 595119, N 5820046



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**TOP OF HOLE ELEV:** 928.1 m

**PROJECT:** Mount Polley Tailings Dam Breach

**METHOD:** Mud Rotary

**DATE:** October 23, 2014

**DRILLING CO.:** Geotech Drilling Ltd.

**FILE NO.:** 15-3-280

**INSPECTOR:** TB/CHS

DEPTH (m)	PENETRATION (blows/300 mm)	WATER CONTENT (%) ○ Disturbed ● Undisturbed	WATER LEVEL ▼ Plastic Limit Liquid Limit	SAMPLES USCS □ Grab Sample USCS ■ Tube Sample ☒ No Recovery	UNDRAINED SHEAR STRENGTH (kPa) ◆ Peak ◇ Residual ◆ Remolded ◆ Pocket Pen	GRAIN SIZE (%) ▲ Passing #200 sieve △ Passing #4 sieve	ELEVATION (m)
0							928
1							927
2							926
3							925
4							924
5							

LOG OF TEST HOLE - MT POLLEY 15-3-280 THURBER.GPJ THURBER BC.GDT 14/1/15- THURBER BC.GLB

Test hole drilled to complete vane shear testing.  
Cevane is an in-situ electric vane shear test.

Drilled out to 4.2 m.

GC 1

Hard, grey, silty, sandy GRAVEL with a trace of clay. (Possible ablation/moraine till)  
End of hole at required depth.  
Test hole grouted upon completion.  
Top of hole backfilled with bentonite chips.

>>◆ Cevane:  
Peak > 190 kPa

**LOCATION:** See Fig. 209  
E 595149, N 5820028



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**TOP OF HOLE ELEV:** 928.9 m

**PROJECT:** Mount Polley Tailings Dam Breach

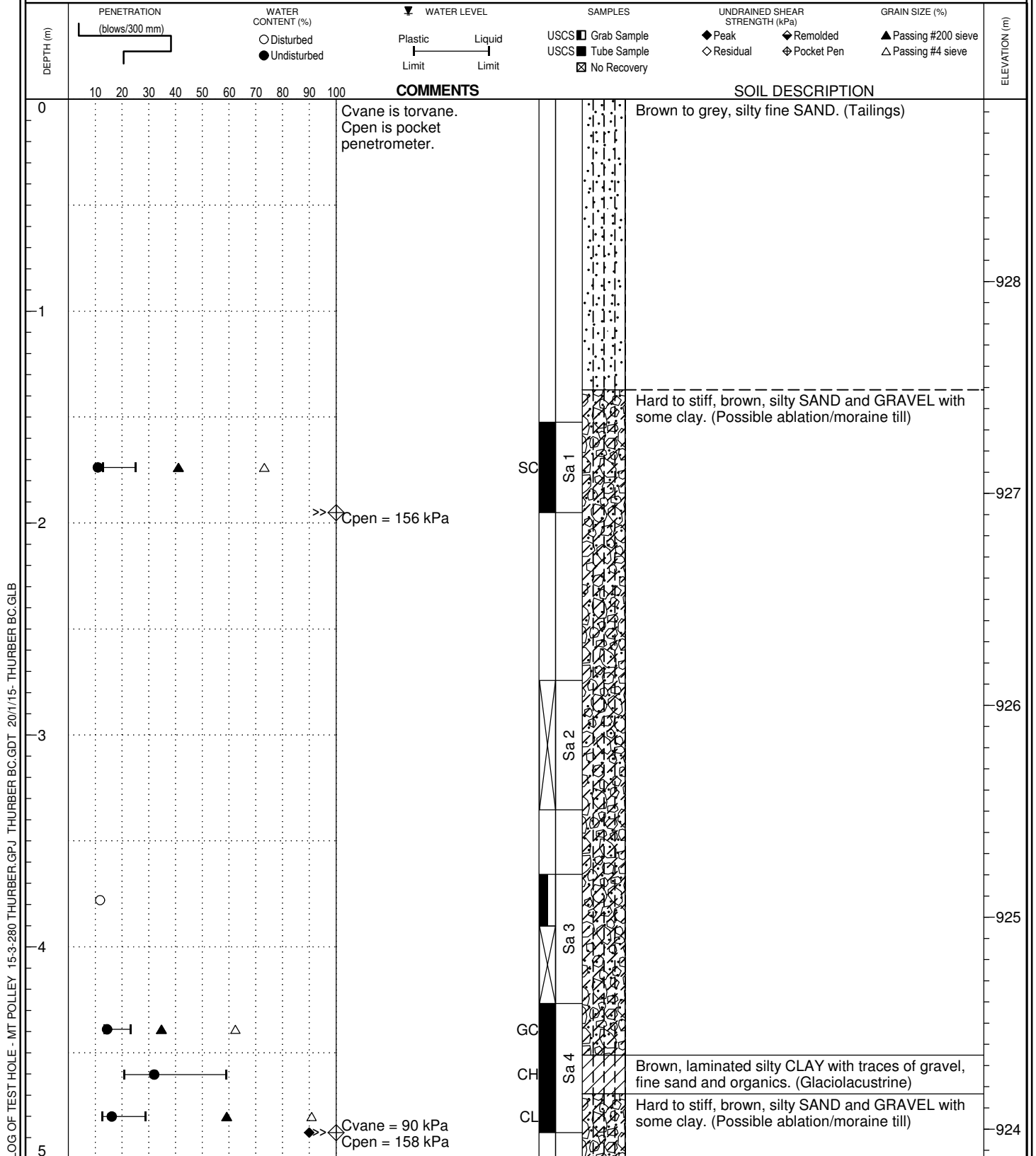
**METHOD:** Mud Rotary

**DATE:** October 22, 2014

**DRILLING CO.:** Geotech Drilling Ltd.

**FILE NO.:** 15-3-280

**INSPECTOR:** TB



LOG OF TEST HOLE - MT POLLEY 15-3-280 THURBER.GPJ THURBER BC.GDT 20/1/15- THURBER BC.GLB

**LOCATION:** See Fig. 209  
E 595149, N 5820028

**TOP OF HOLE ELEV:** 928.9 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB

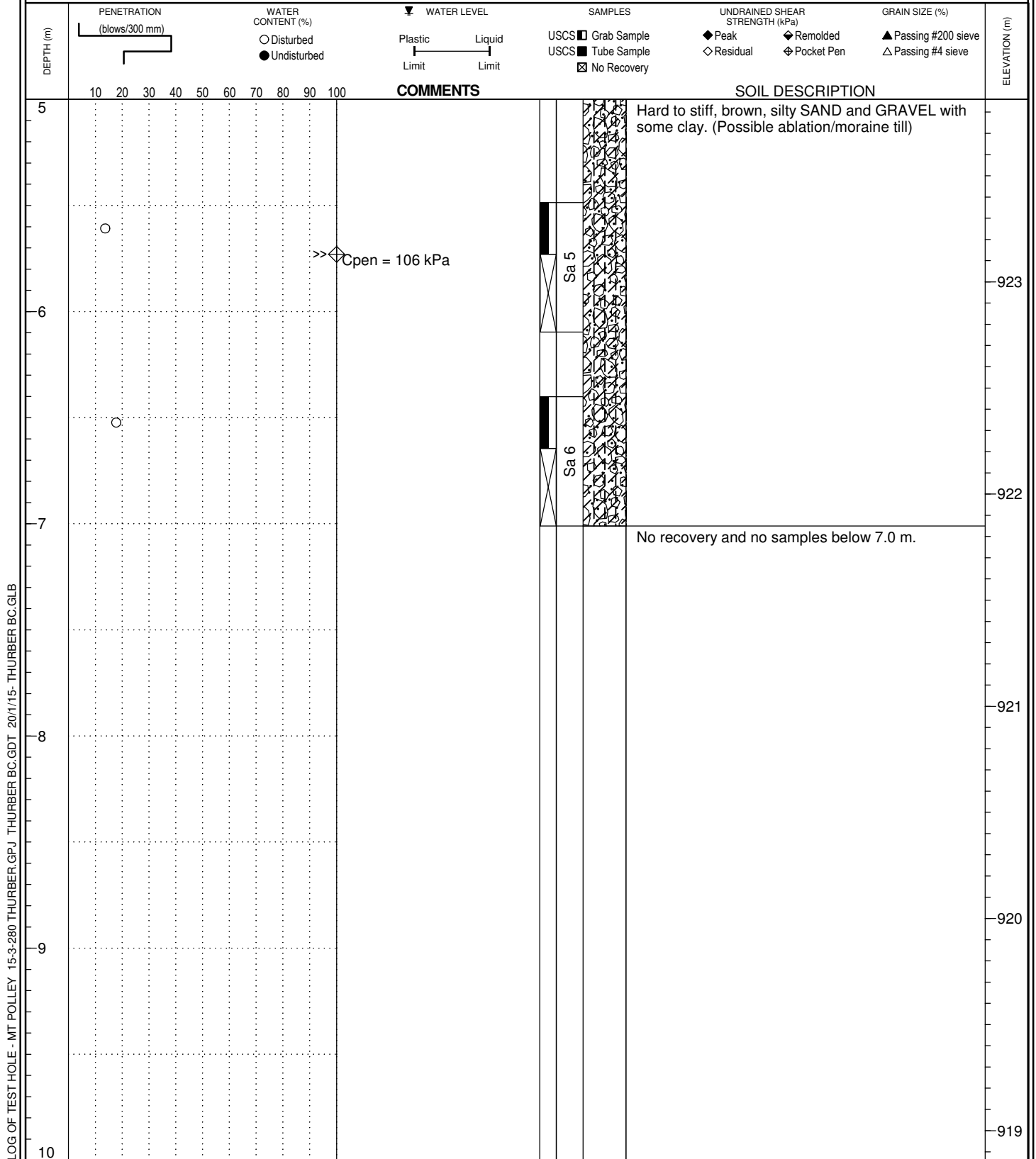


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 22, 2014

**FILE NO.:** 15-3-280



**LOCATION:** See Fig. 209  
E 595149, N 5820028

**TOP OF HOLE ELEV:** 928.9 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 22, 2014

**FILE NO.:** 15-3-280

DEPTH (m)	PENETRATION (blows/300 mm)	WATER CONTENT (%) ○ Disturbed ● Undisturbed	WATER LEVEL ▼ Plastic Limit      Liquid Limit	SAMPLES USCS □ Grab Sample USCS ■ Tube Sample ☒ No Recovery	UNDRAINED SHEAR STRENGTH (kPa) ◆ Peak      ◆ Remolded ◇ Residual      ◇ Pocket Pen	GRAIN SIZE (%) ▲ Passing #200 sieve △ Passing #4 sieve	ELEVATION (m)	COMMENTS	SOIL DESCRIPTION
10								End of hole at required depth. Test hole grouted upon completion. Top of hole backfilled with bentonite chips.	
11									
12									
13									
14									
15									

HOLE NO.  
**MR14-112A**

**LOCATION:** See Fig. 209  
E 595151, N 5820026



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**TOP OF HOLE ELEV:** 928.7 m

**PROJECT:** Mount Polley Tailings Dam Breach

**METHOD:** Mud Rotary

**DATE:** October 31, 2014

**DRILLING CO.:** Geotech Drilling Ltd.

**FILE NO.:** 15-3-280

**INSPECTOR:** TB

DEPTH (m)	PENETRATION (blows/300 mm)	WATER CONTENT (%) ○ Disturbed ● Undisturbed	WATER LEVEL ▼ Plastic Limit      Liquid Limit	SAMPLES USCS ■ Grab Sample USCS ■ Tube Sample ☒ No Recovery	UNDRAINED SHEAR STRENGTH (kPa) ◆ Peak      ◆ Remolded ◇ Residual      ◇ Pocket Pen	GRAIN SIZE (%) ▲ Passing #200 sieve △ Passing #4 sieve	ELEVATION (m)	COMMENTS	SOIL DESCRIPTION
0								Test hole drilled to complete vane shear testing.  Cevane is an in-situ electric vane shear test.	Drilled out to 2.4 m.
1									
2									
3									Hard, brown, sandy SILT with a trace to some gravel and a trace of clay. (Possible ablation/moraine till)
4								>> Cevane: Peak > 194 kPa	
5								>> Cevane: Peak > 190 kPa	End of hole at required depth. Test hole grouted upon completion. Top of hole backfilled with bentonite chips.

LOG OF TEST HOLE - MT POLLEY 15-3-280 THURBER.GPJ THURBER BC.GDT 14/1/15- THURBER BC.GLB



**LOCATION:** See Fig. 209  
E 595152, N 5820013

**TOP OF HOLE ELEV:** 929.4 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB

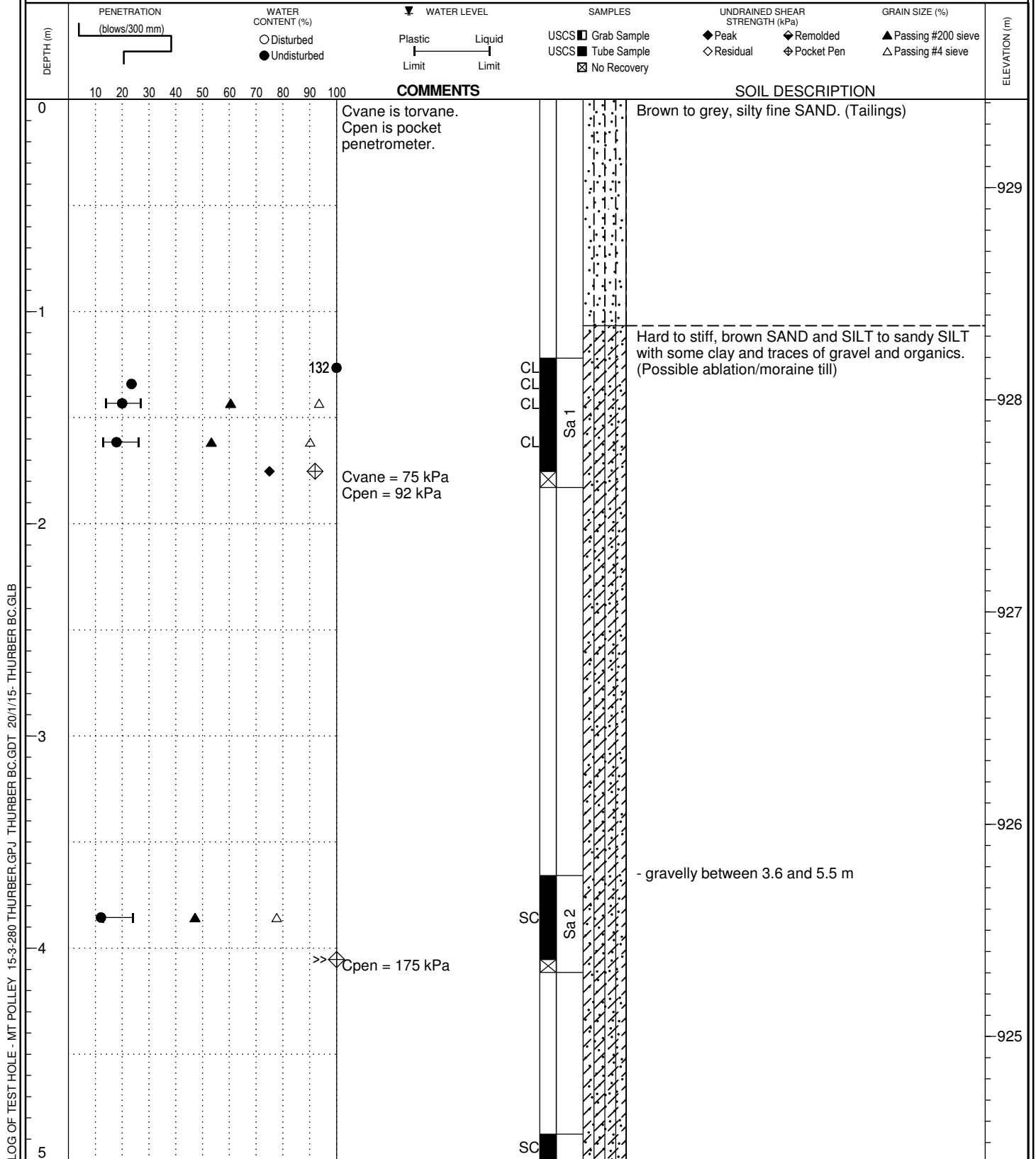


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 22, 2014

**FILE NO.:** 15-3-280



**LOCATION:** See Fig. 209  
E 595152, N 5820013

**TOP OF HOLE ELEV:** 929.4 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB

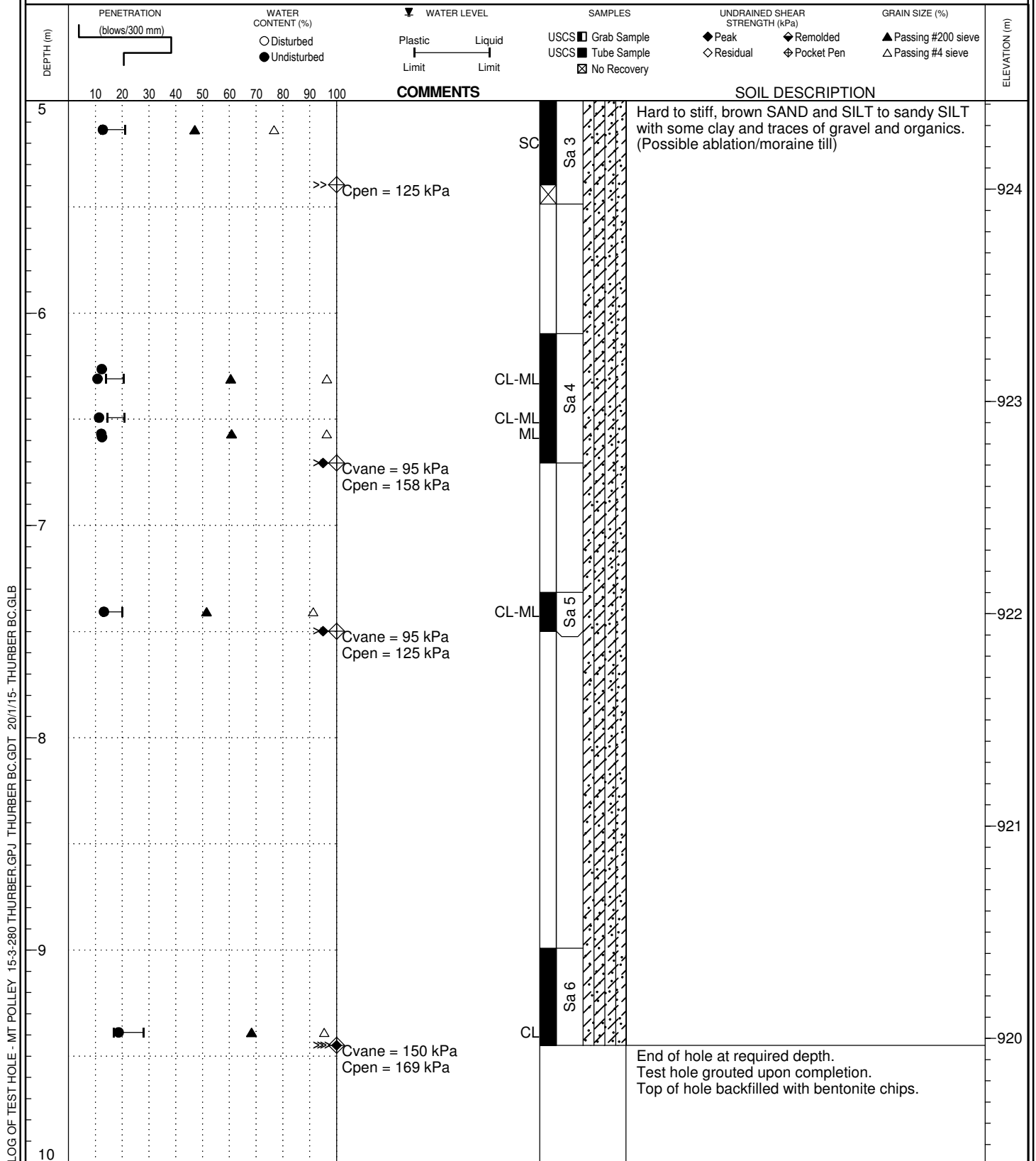


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 22, 2014

**FILE NO.:** 15-3-280



LOG OF TEST HOLE - MT POLLEY 15-3-280 THURBER.GPJ THURBER BC.GDT 20/1/15- THURBER BC.GLB

**LOCATION:** See Fig. 209  
E 595064, N 5819981



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**TOP OF HOLE ELEV:** 930.6 m

**PROJECT:** Mount Polley Tailings Dam Breach

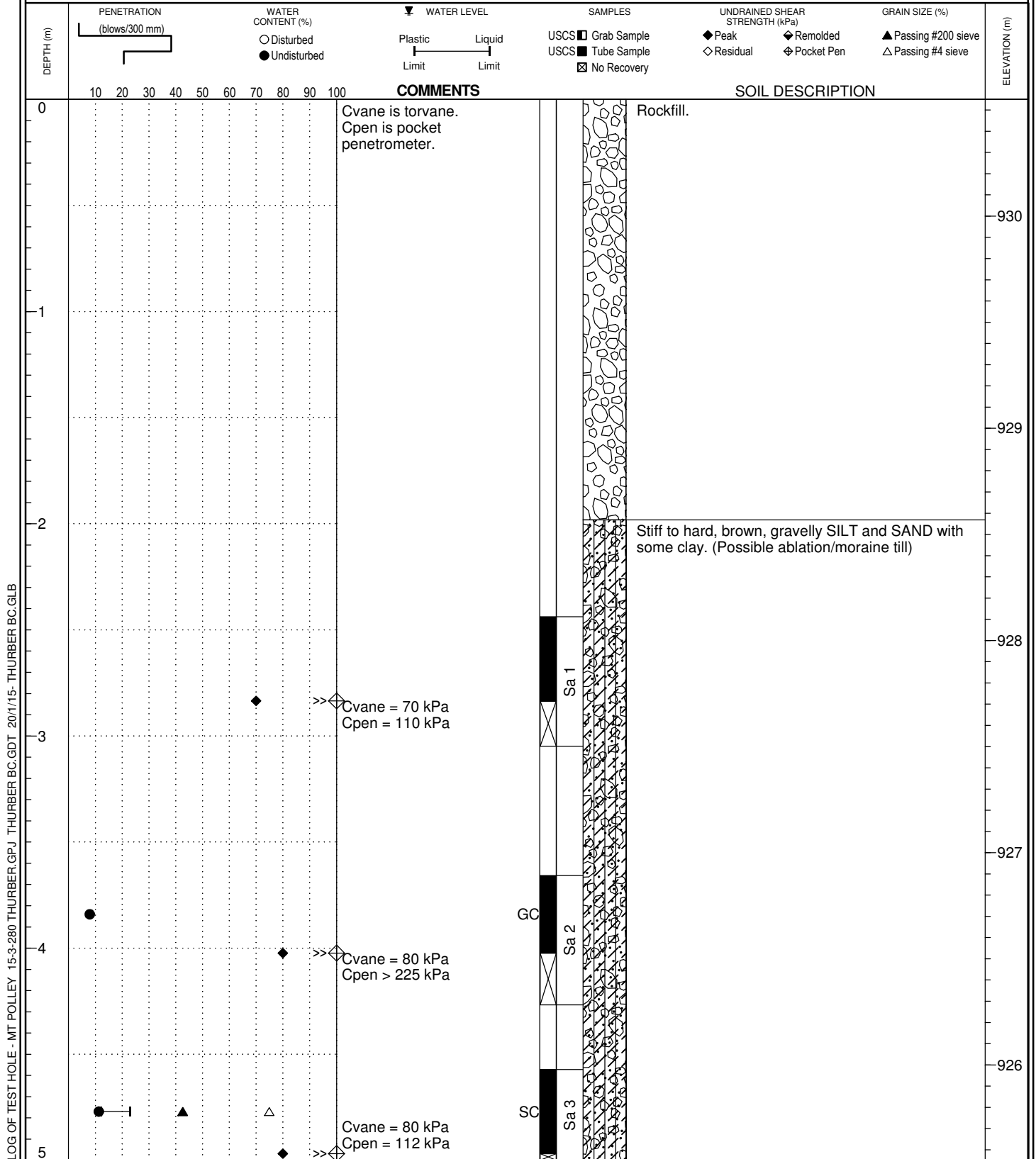
**METHOD:** Mud Rotary

**DATE:** October 28, 2014

**DRILLING CO.:** Geotech Drilling Ltd.

**FILE NO.:** 15-3-280

**INSPECTOR:** TB



**LOCATION:** See Fig. 209  
E 595064, N 5819981

**TOP OF HOLE ELEV:** 930.6 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB

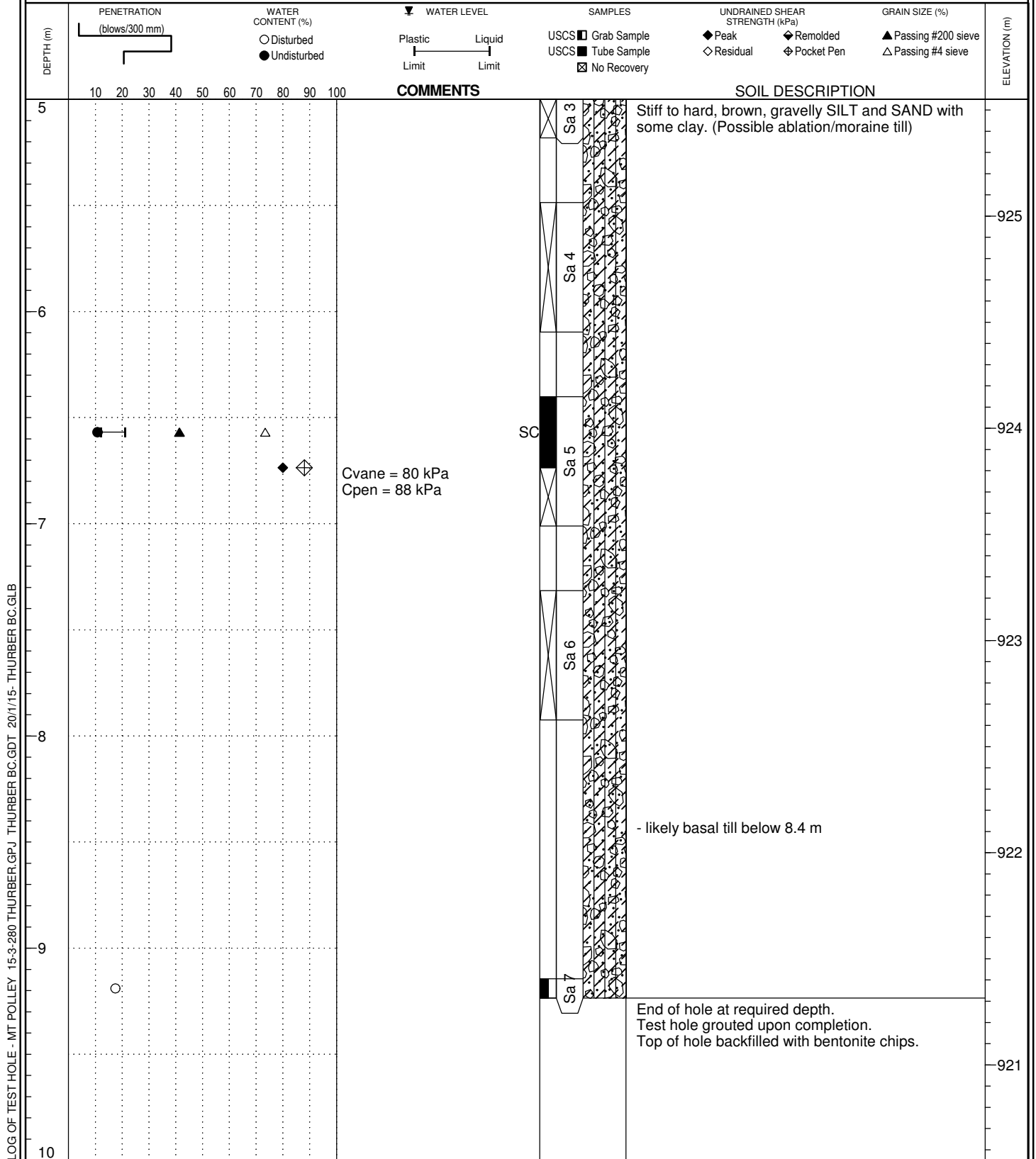


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 28, 2014

**FILE NO.:** 15-3-280



**LOCATION:** See Fig. 209  
E 595076, N 5820007



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**TOP OF HOLE ELEV:** 929.0 m

**PROJECT:** Mount Polley Tailings Dam Breach

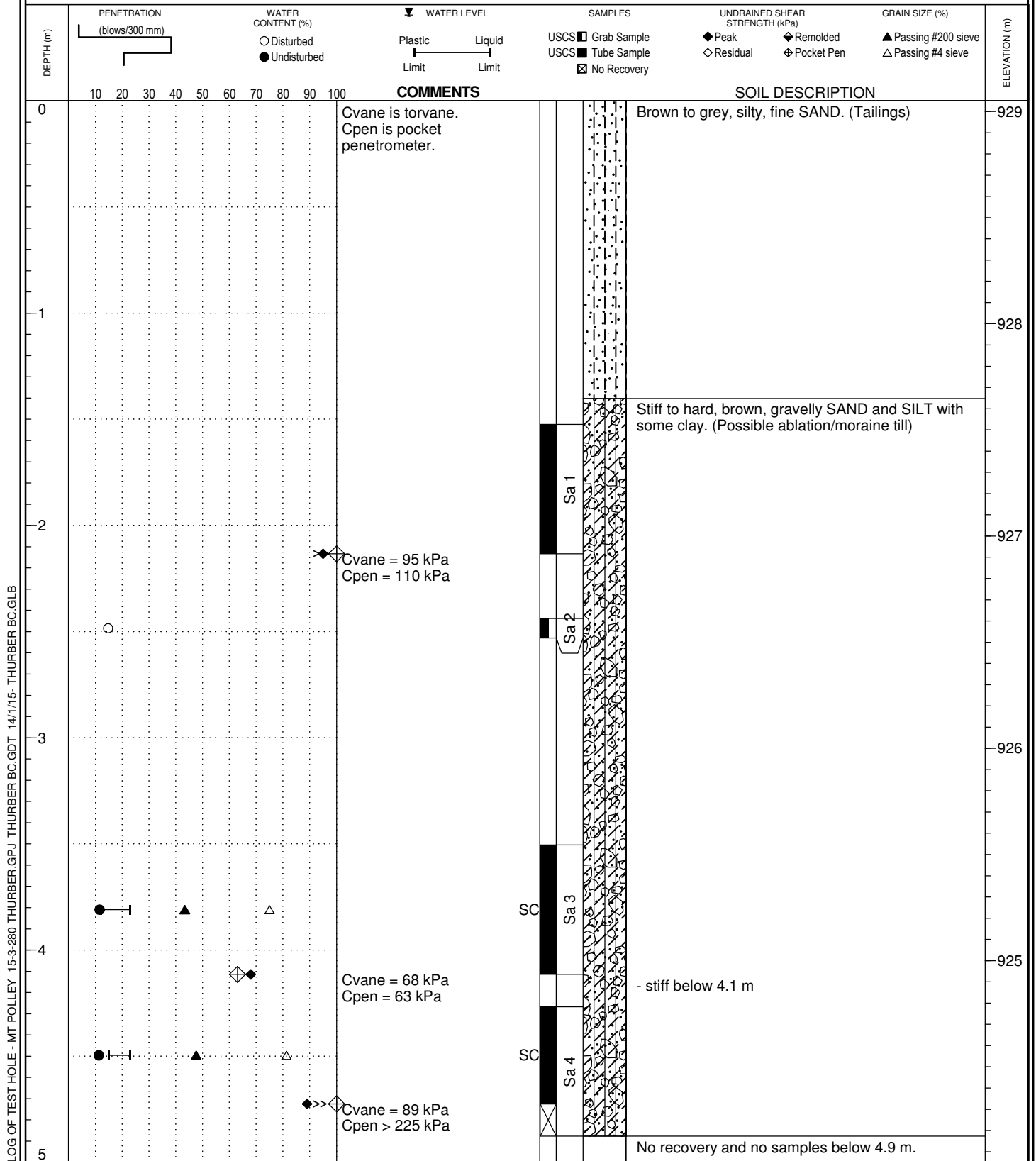
**METHOD:** Mud Rotary

**DATE:** October 28, 2014

**DRILLING CO.:** Geotech Drilling Ltd.

**FILE NO.:** 15-3-280

**INSPECTOR:** TB



**LOCATION:** See Fig. 209  
E 595076, N 5820007

**TOP OF HOLE ELEV:** 929.0 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 28, 2014

**FILE NO.:** 15-3-280

DEPTH (m)	PENETRATION (blows/300 mm)	WATER CONTENT (%) ○ Disturbed ● Undisturbed	WATER LEVEL ▼ Plastic Limit      Liquid Limit	SAMPLES USCS <input type="checkbox"/> Grab Sample USCS <input type="checkbox"/> Tube Sample <input checked="" type="checkbox"/> No Recovery	UNDRAINED SHEAR STRENGTH (kPa) ◆ Peak      ◆ Remolded ◇ Residual      ◇ Pocket Pen	GRAIN SIZE (%) ▲ Passing #200 sieve △ Passing #4 sieve	ELEVATION (m)
5							924
6							923
7							922
8							921
9							920
10							

**LOCATION:** See Fig. 209  
E 595076, N 5820007

**TOP OF HOLE ELEV:** 929.0 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** TB



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** October 28, 2014

**FILE NO.:** 15-3-280

DEPTH (m)	PENETRATION (blows/300 mm)	WATER CONTENT (%) ○ Disturbed ● Undisturbed	WATER LEVEL ▼ Plastic Limit      Liquid Limit	SAMPLES USCS □ Grab Sample USCS ■ Tube Sample ☒ No Recovery	UNDRAINED SHEAR STRENGTH (kPa) ◆ Peak      ◆ Remolded ◇ Residual      ◇ Pocket Pen	GRAIN SIZE (%) ▲ Passing #200 sieve △ Passing #4 sieve	ELEVATION (m)
10							919
11							918
12							917
13							916
14							915
15							

LOG OF TEST HOLE - MT POLLEY 15-3-280 THURBER.GPJ THURBER BC.GDT 14/1/15- THURBER BC.GLB

No recovery and no samples below 4.9 m.

End of hole at required depth.  
Test hole grouted upon completion.  
Top of hole backfilled with bentonite chips.

**LOCATION:** See Fig. 209  
E 595113, N 5819969

**TOP OF HOLE ELEV:** 930.6 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** BSP

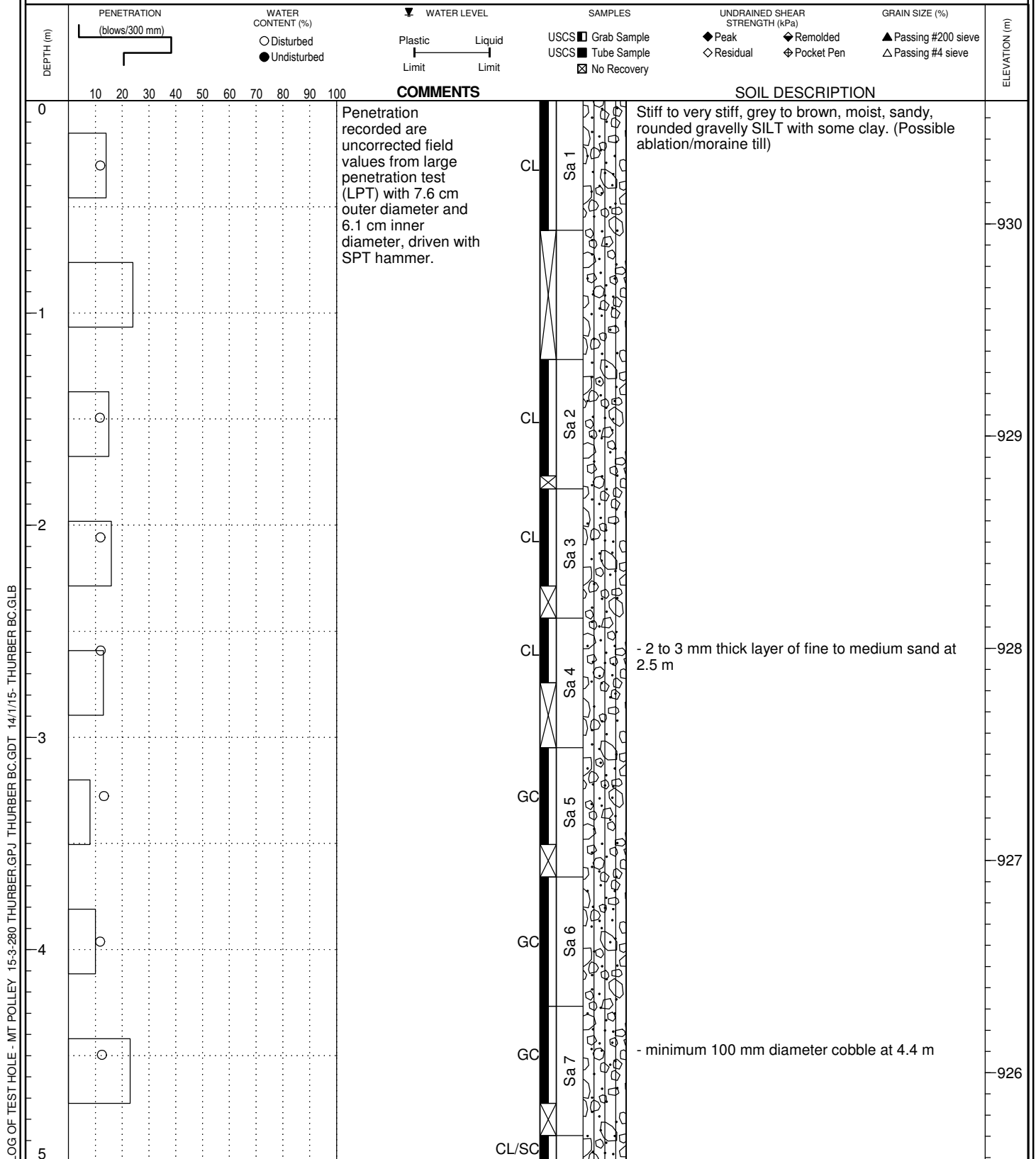


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** November 3, 2014

**FILE NO.:** 15-3-280





**LOCATION:** See Fig. 209  
E 595113, N 5819969

**TOP OF HOLE ELEV:** 930.6 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** BSP

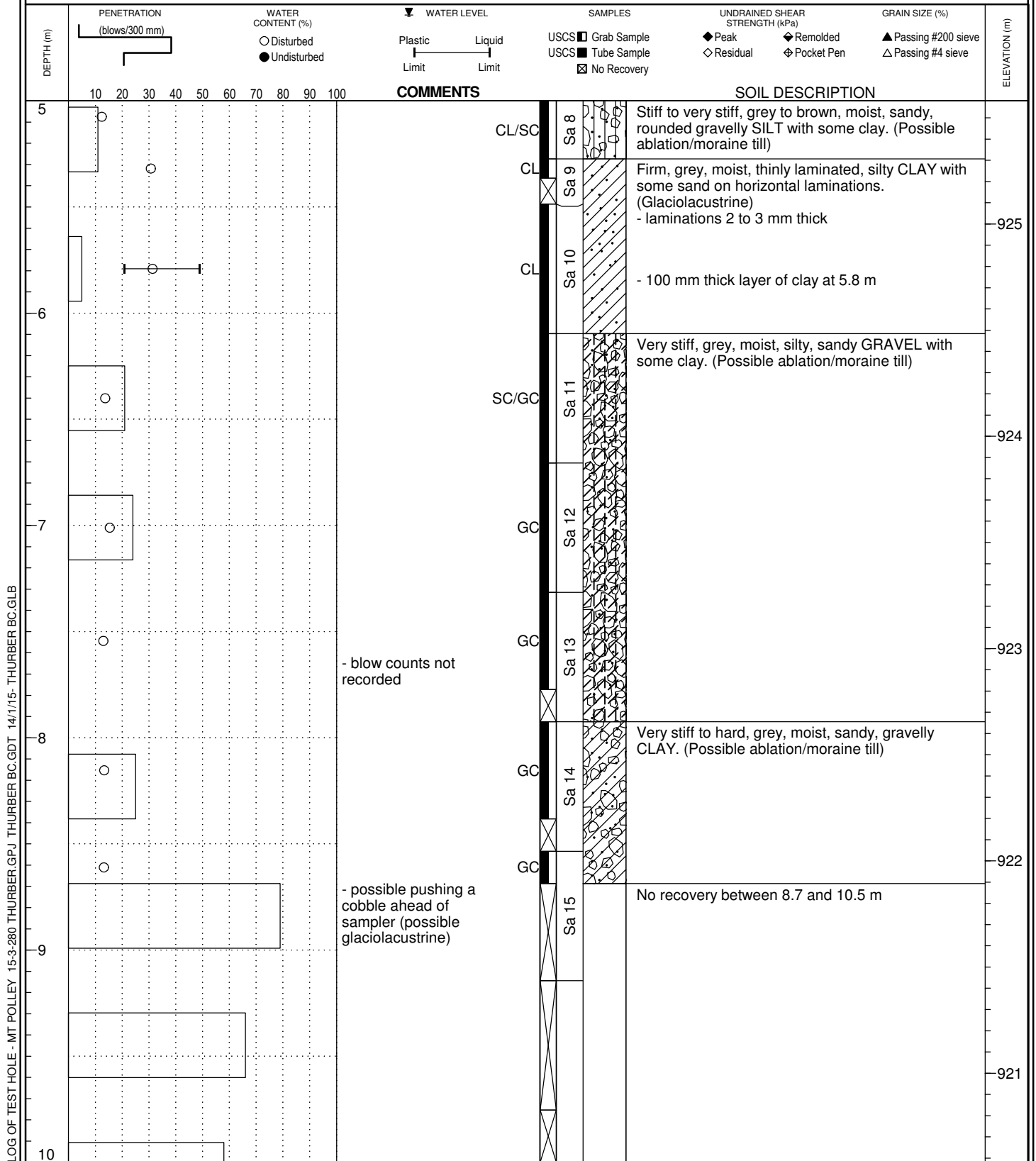


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** November 3, 2014

**FILE NO.:** 15-3-280



**LOCATION:** See Fig. 209  
E 595113, N 5819969

**TOP OF HOLE ELEV:** 930.6 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** BSP

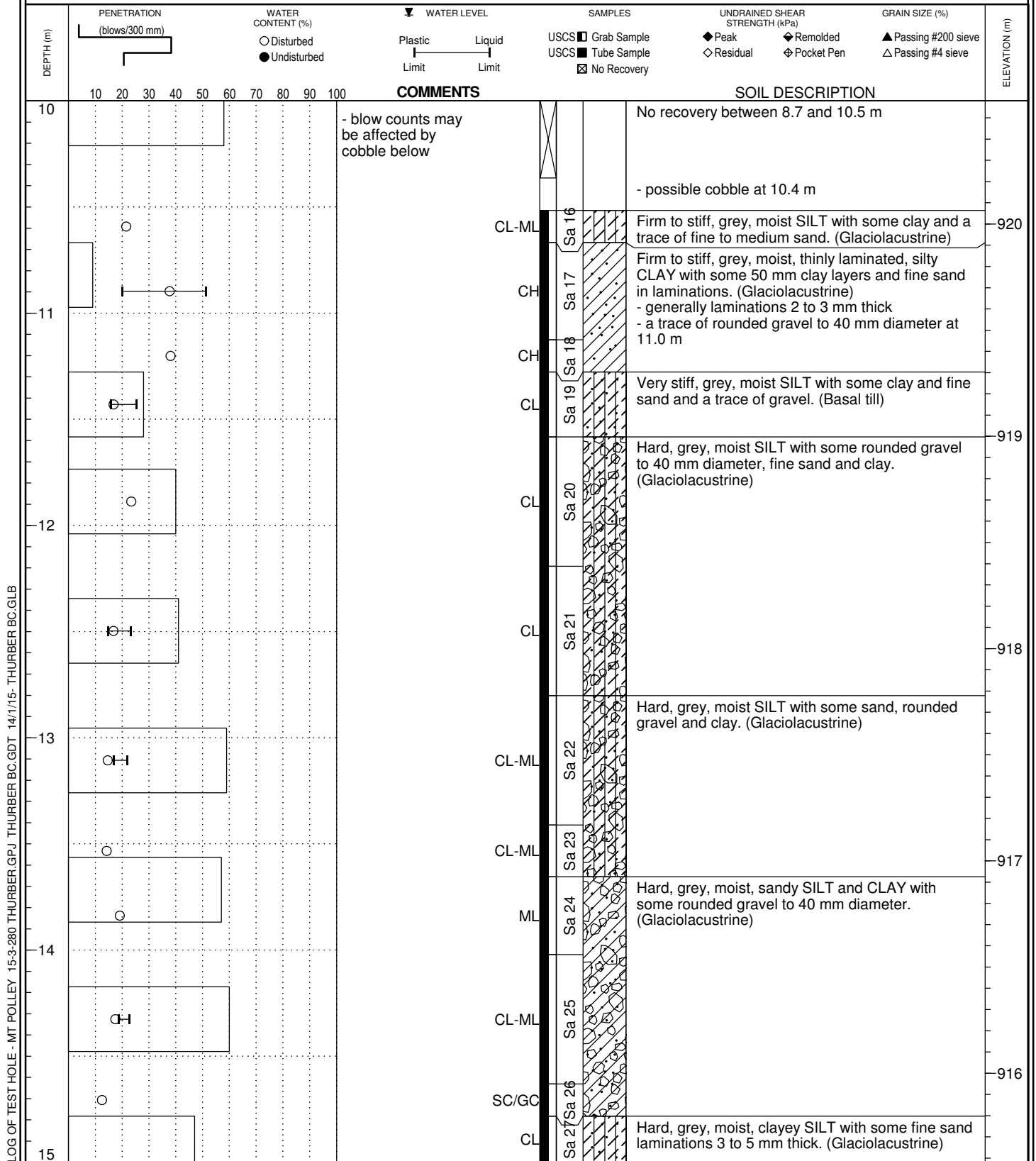


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** November 3, 2014

**FILE NO.:** 15-3-280



HOLE NO.  
**MR14-116**

**LOCATION:** See Fig. 209  
E 595113, N 5819969

**TOP OF HOLE ELEV:** 930.6 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** BSP



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** November 3, 2014

**FILE NO.:** 15-3-280

DEPTH (m)	PENETRATION (blows/300 mm)	WATER CONTENT (%) ○ Disturbed ● Undisturbed	WATER LEVEL ▼ Plastic Limit      Liquid Limit	SAMPLES USCS □ Grab Sample USCS ■ Tube Sample ☒ No Recovery	UNDRAINED SHEAR STRENGTH (kPa) ◆ Peak      ◆ Remolded ◇ Residual      ◇ Pocket Pen	GRAIN SIZE (%) ▲ Passing #200 sieve △ Passing #4 sieve	ELEVATION (m)
15	10						915
16							914
17							913
18							912
19							911
20							

LOG OF TEST HOLE - MT POLLEY 15-3-280 THURBER.GPJ THURBER BC.GDT 14/1/15- THURBER BC.GLB

CL

Sa 27

Hard, grey, moist, clayey SILT with some fine sand  
laminations 3 to 5 mm thick. (Glaciolacustrine)

End of hole at required depth.  
Test hole grouted upon completion.  
Top of hole backfilled with bentonite chips.

**LOCATION:** See Fig. 209  
E 595112, N 5819969

**TOP OF HOLE ELEV:** 930.6 m

**METHOD:** Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** BSP

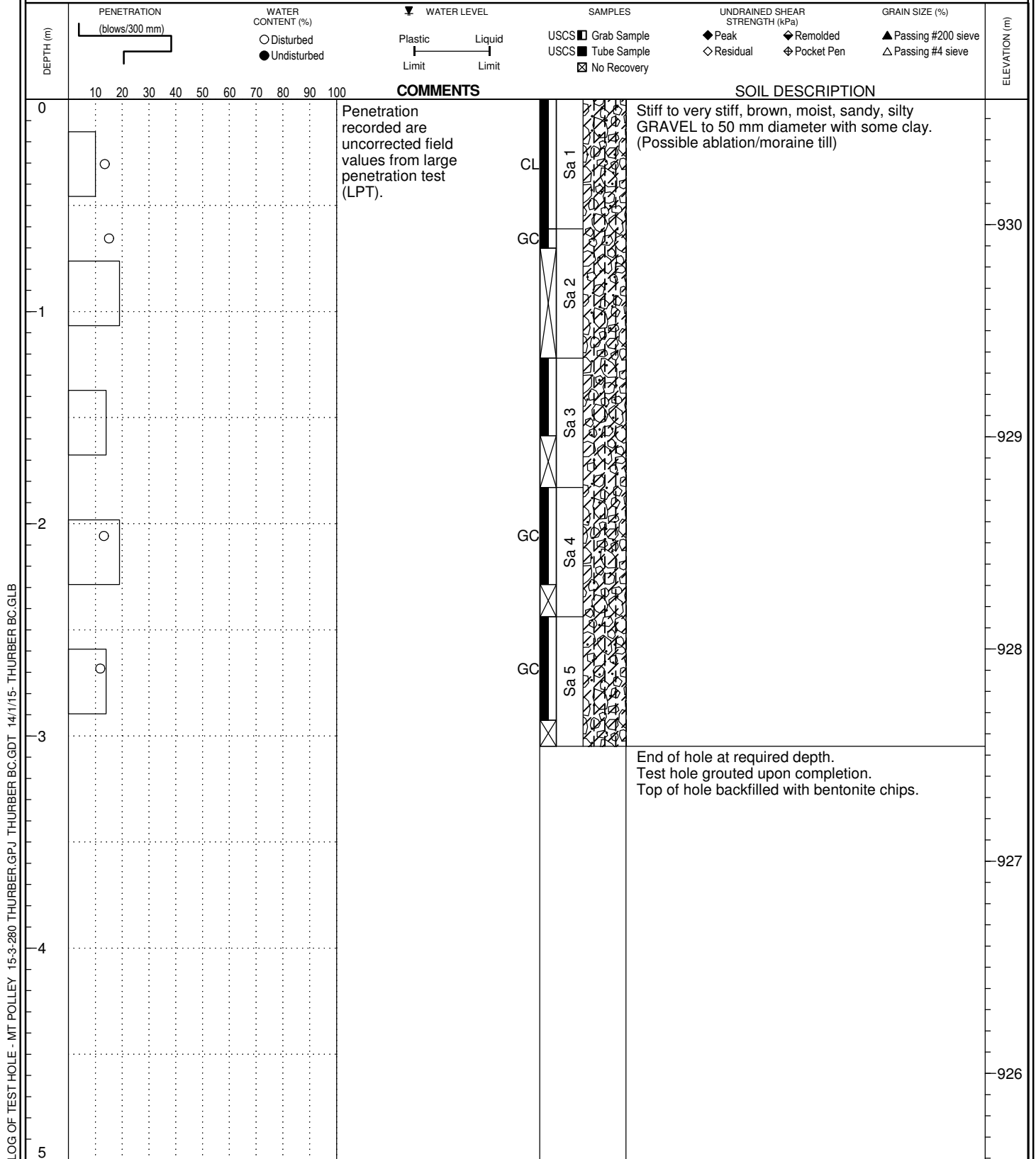


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** November 3, 2014

**FILE NO.:** 15-3-280



**LOCATION:** See Fig. 209  
E 595126, N 5819944 (est.)  
Near KCB SH14-03

**TOP OF HOLE ELEV:** 932.4 m (est.)

**METHOD:** Odex / Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** BSP



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** November 12, 2014

**FILE NO.:** 15-3-280

DEPTH (m)	PENETRATION (blows/300 mm)	WATER CONTENT (%) ○ Disturbed ● Undisturbed	WATER LEVEL ▼ Plastic Limit      Liquid Limit	SAMPLES USCS ■ Grab Sample USCS ■ Tube Sample ☒ No Recovery	UNDRAINED SHEAR STRENGTH (kPa) ◆ Peak      ◆ Remolded ◇ Residual      ◇ Pocket Pen	GRAIN SIZE (%) ▲ Passing #200 sieve △ Passing #4 sieve	ELEVATION (m)
0							932
1							931
2							930
3							929
4							928
5							

LOG OF TEST HOLE - MT POLLEY 15-3-280 THURBER.GPJ THURBER BC.GDT 14/1/15- THURBER BC.GLB

**LOCATION:** See Fig. 209  
E 595126, N 5819944 (est.)  
Near KCB SH14-03

**TOP OF HOLE ELEV:** 932.4 m (est.)

**METHOD:** Odex / Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** BSP



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** November 12, 2014

**FILE NO.:** 15-3-280

DEPTH (m)	PENETRATION (blows/300 mm)	WATER CONTENT (%) ○ Disturbed ● Undisturbed	WATER LEVEL ▼ Plastic Limit      Liquid Limit	SAMPLES USCS ■ Grab Sample USCS ■ Tube Sample ☒ No Recovery	UNDRAINED SHEAR STRENGTH (kPa) ◆ Peak      ◆ Remolded ◇ Residual      ◇ Pocket Pen	GRAIN SIZE (%) ▲ Passing #200 sieve △ Passing #4 sieve	ELEVATION (m)
5							927
6							926
7							925
8							924
9							923
10							

LOG OF TEST HOLE - MT POLLEY 15-3-280 THURBER.GPJ THURBER BC.GDT 14/1/15- THURBER BC.GLB

Drilled out 11.9 m.

**LOCATION:** See Fig. 209  
E 595126, N 5819944 (est.)  
Near KCB SH14-03

**TOP OF HOLE ELEV:** 932.4 m (est.)

**METHOD:** Odex / Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** BSP

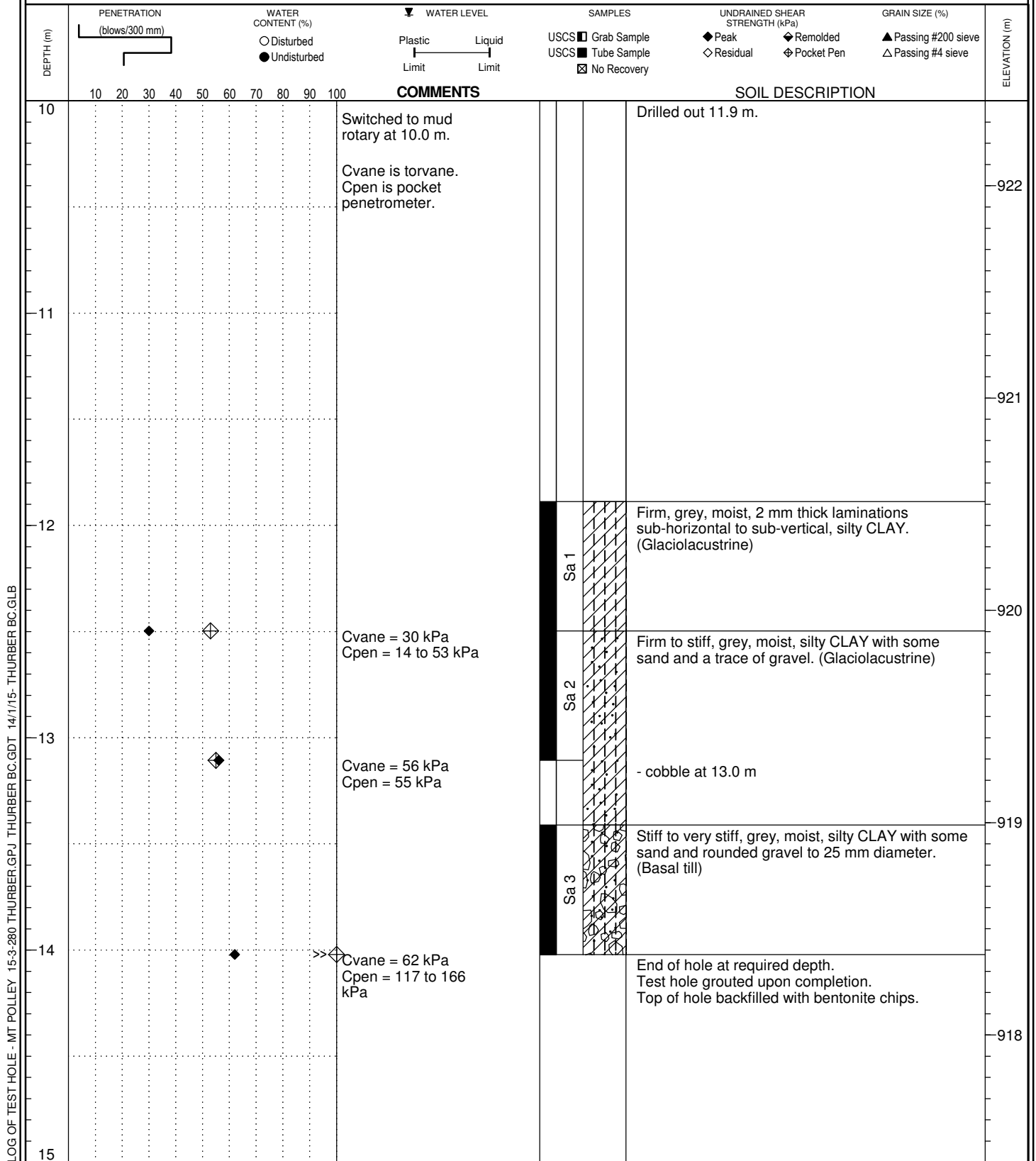


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** November 12, 2014

**FILE NO.:** 15-3-280



LOG OF TEST HOLE - MT POLLEY 15-3-280 THURBER.GPJ THURBER BC.GDT 14/1/15 THURBER BC.GLB

**LOCATION:** See Fig. 209  
E 595125, N 5819939 (est.)  
Near KCB SH14-03

**TOP OF HOLE ELEV:** 932.6 m (est.)

**METHOD:** Odex / Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** BSP



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** November 12, 2014

**FILE NO.:** 15-3-280

DEPTH (m)	PENETRATION (blows/300 mm)	WATER CONTENT (%) ○ Disturbed ● Undisturbed	WATER LEVEL ▼ Plastic Limit      Liquid Limit	SAMPLES USCS ■ Grab Sample USCS ■ Tube Sample ☒ No Recovery	UNDRAINED SHEAR STRENGTH (kPa) ◆ Peak      ◆ Remolded ◇ Residual      ◇ Pocket Pen	GRAIN SIZE (%) ▲ Passing #200 sieve △ Passing #4 sieve	ELEVATION (m)
0							932
1							931
2							930
3							929
4							928
5							



**LOCATION:** See Fig. 209  
E 595125, N 5819939 (est.)  
Near KCB SH14-03

**TOP OF HOLE ELEV:** 932.6 m (est.)

**METHOD:** Odex / Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** BSP



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** November 12, 2014

**FILE NO.:** 15-3-280

DEPTH (m)	PENETRATION (blows/300 mm)	WATER CONTENT (%) ○ Disturbed ● Undisturbed	WATER LEVEL ▼ Plastic Limit      Liquid Limit	SAMPLES USCS □ Grab Sample USCS ■ Tube Sample ☒ No Recovery	UNDRAINED SHEAR STRENGTH (kPa) ◆ Peak      ◆ Remolded ◇ Residual      ◇ Pocket Pen	GRAIN SIZE (%) ▲ Passing #200 sieve △ Passing #4 sieve	ELEVATION (m)
5							927
6							926
7							925
8							924
9							923
10							

LOG OF TEST HOLE - MT POLLEY 15-3-280 THURBER.GPJ THURBER BC.GDT 14/1/15- THURBER BC.GLB

Drilled out to 11.9 m.

**LOCATION:** See Fig. 209  
E 595125, N 5819939 (est.)  
Near KCB SH14-03

**TOP OF HOLE ELEV:** 932.6 m (est.)

**METHOD:** Odex / Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** BSP

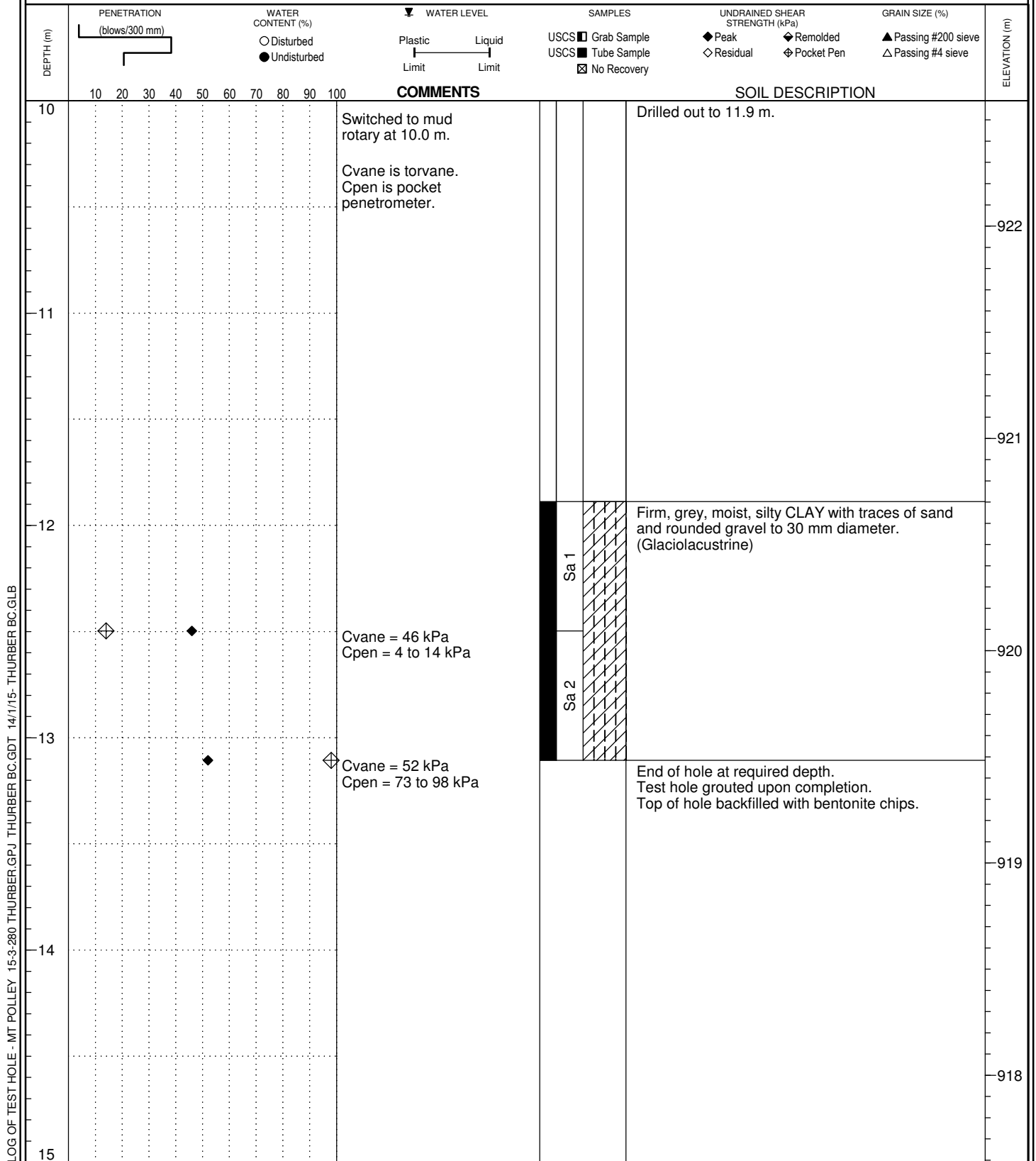


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** November 12, 2014

**FILE NO.:** 15-3-280



**LOCATION:** See Fig. 209  
E 595176, N 5819922 (est.)  
Near KCB SH14-06

**TOP OF HOLE ELEV:** 937.7 m (est.)

**METHOD:** Odex / Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** BSP



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** November 11, 2014

**FILE NO.:** 15-3-280

DEPTH (m)	PENETRATION (blows/300 mm)	WATER CONTENT (%) ○ Disturbed ● Undisturbed	WATER LEVEL ▼ Plastic Limit      Liquid Limit	SAMPLES USCS □ Grab Sample USCS ■ Tube Sample ☒ No Recovery	UNDRAINED SHEAR STRENGTH (kPa) ◆ Peak      ◆ Remolded ◇ Residual      ◇ Pocket Pen	GRAIN SIZE (%) ▲ Passing #200 sieve △ Passing #4 sieve	ELEVATION (m)
0							937
1							
2							936
3							935
4							934
5							933

LOG OF TEST HOLE - MT POLLEY 15-3-280 THURBER.GPJ THURBER BC.GDT 14/1/15- THURBER BC.GLB

**LOCATION:** See Fig. 209  
E 595176, N 5819922 (est.)  
Near KCB SH14-06

**TOP OF HOLE ELEV:** 937.7 m (est.)

**METHOD:** Odex / Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** BSP



**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** November 11, 2014

**FILE NO.:** 15-3-280

DEPTH (m)	PENETRATION (blows/300 mm)	WATER CONTENT (%) ○ Disturbed ● Undisturbed	WATER LEVEL ▼ Plastic Limit      Liquid Limit	SAMPLES USCS ■ Grab Sample USCS ■ Tube Sample ☒ No Recovery	UNDRAINED SHEAR STRENGTH (kPa) ◆ Peak      ◆ Remolded ◇ Residual      ◇ Pocket Pen	GRAIN SIZE (%) ▲ Passing #200 sieve △ Passing #4 sieve	ELEVATION (m)
5							932
6							931
7							930
8							929
9							928
10							

LOG OF TEST HOLE - MT POLLEY 15-3-280 THURBER.GPJ THURBER BC.GDT 14/1/15- THURBER BC.GLB

Drilled out to 11.6 m.

**LOCATION:** See Fig. 209  
E 595176, N 5819922 (est.)  
Near KCB SH14-06

**TOP OF HOLE ELEV:** 937.7 m (est.)

**METHOD:** Odex / Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** BSP

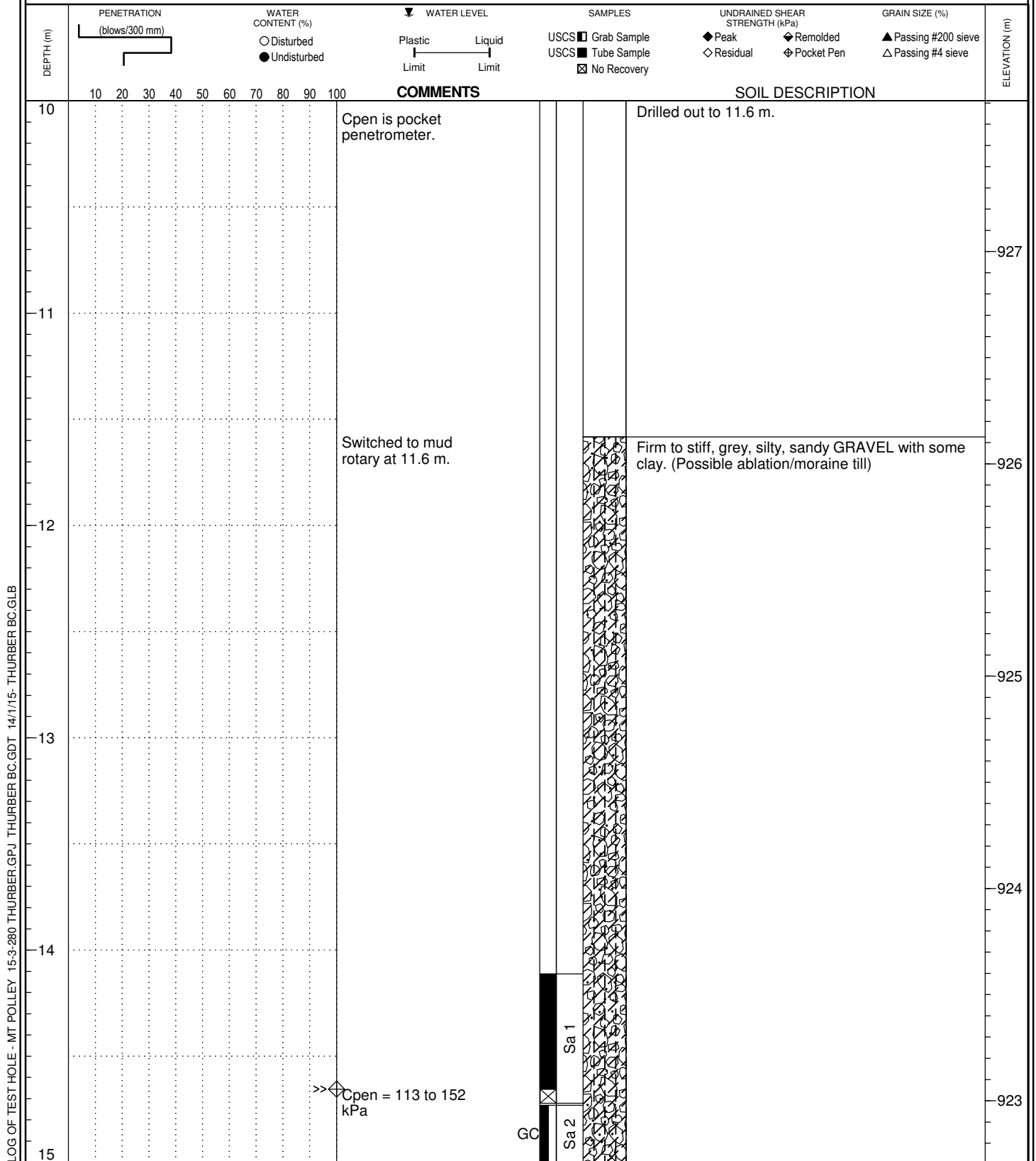


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

**DATE:** November 11, 2014

**FILE NO.:** 15-3-280



**LOCATION:** See Fig. 209  
E 595176, N 5819922 (est.)  
Near KCB SH14-06

**TOP OF HOLE ELEV:** 937.7 m (est.)

**METHOD:** Odex / Mud Rotary

**DRILLING CO.:** Geotech Drilling Ltd.

**INSPECTOR:** BSP

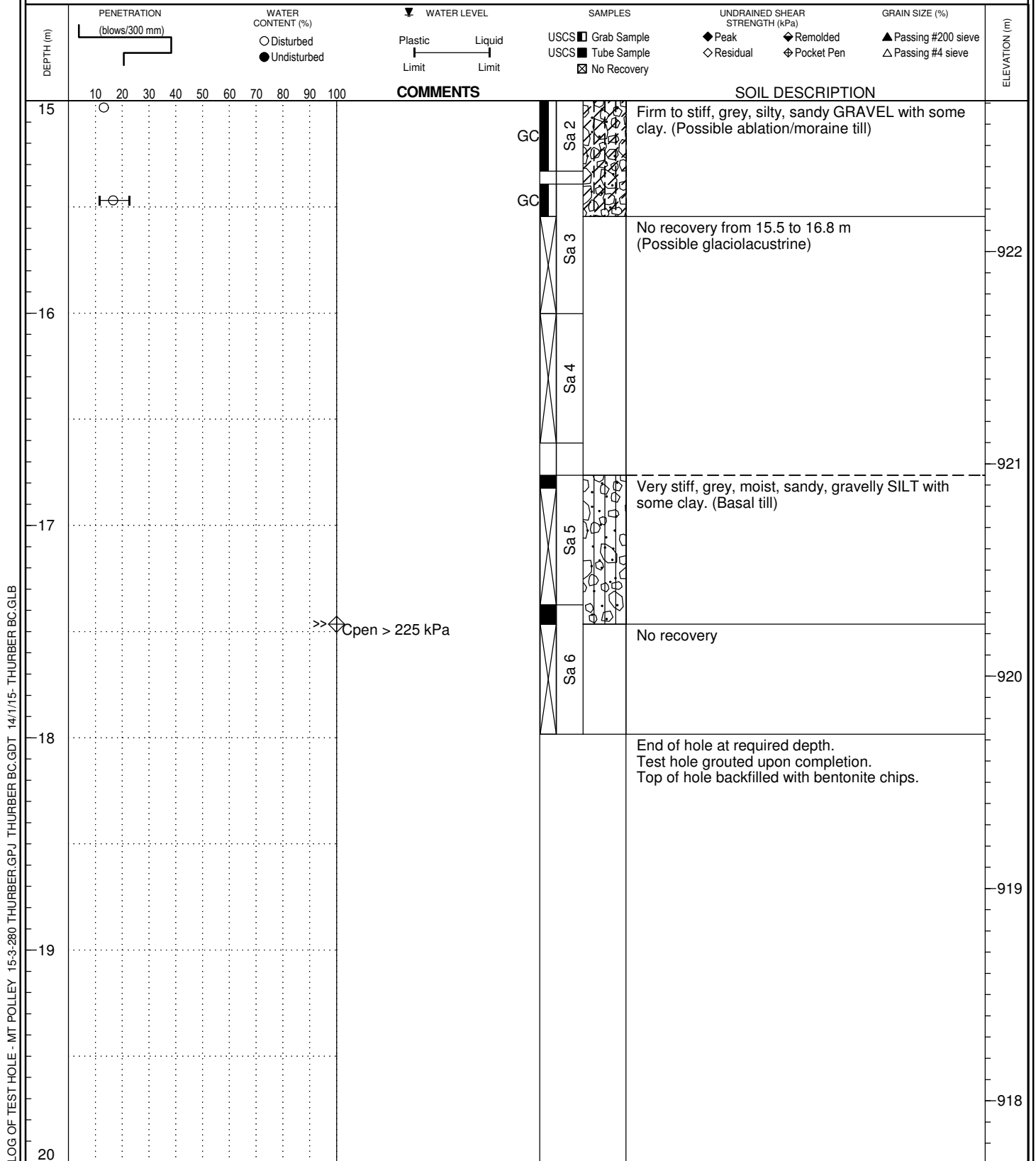


**CLIENT:** Mount Polley Independent Expert  
Engineering Investigation and  
Review Panel

**PROJECT:** Mount Polley Tailings Dam Breach

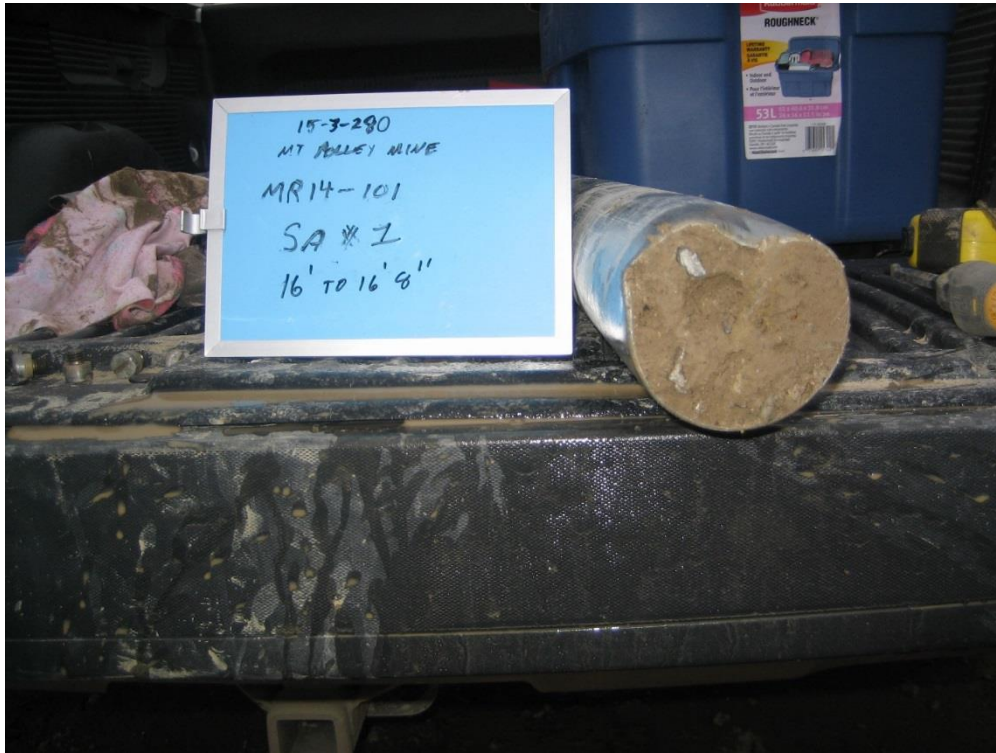
**DATE:** November 11, 2014

**FILE NO.:** 15-3-280

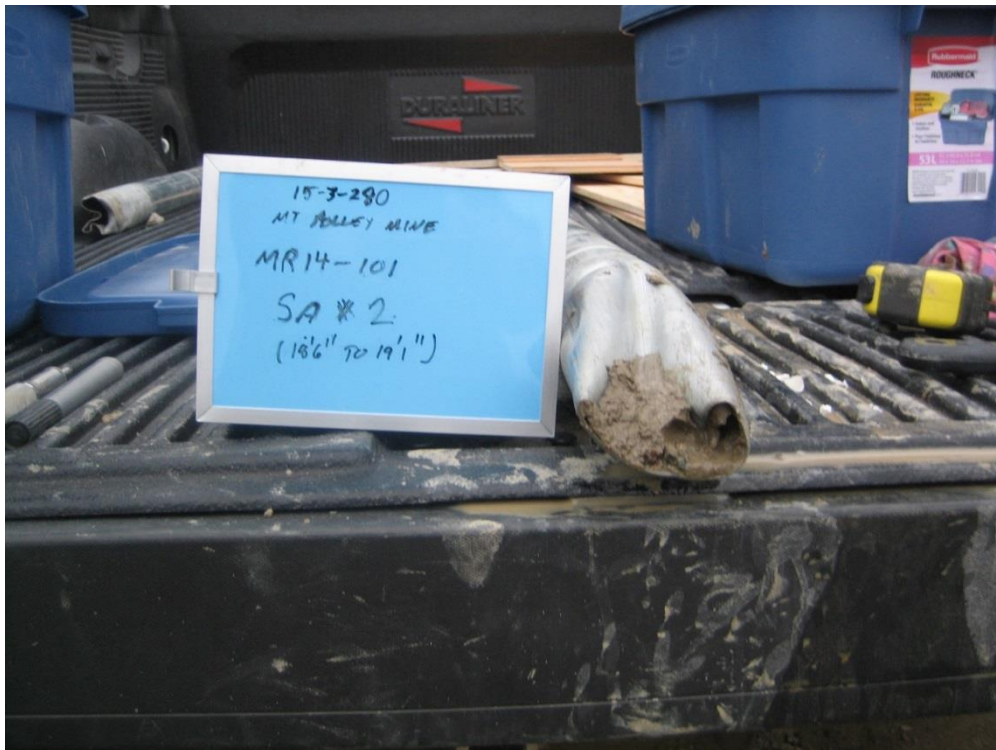


## Field Photos of Tube Samples

**MR14-101 PHOTO SUMMARY**

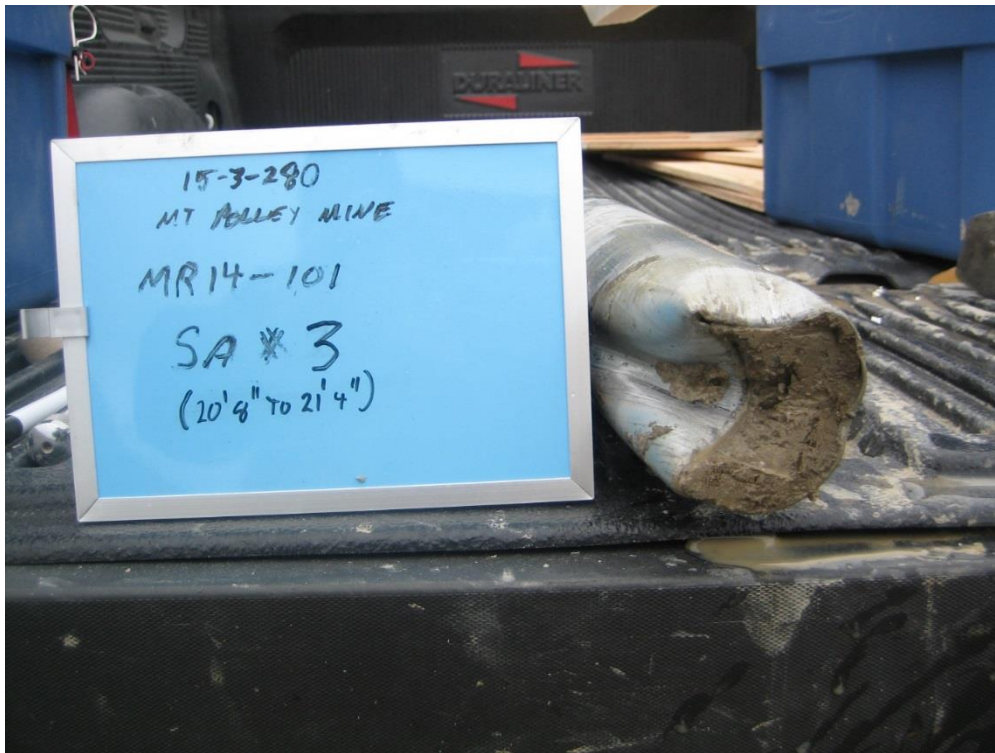


**MR14-101 SAMPLE #1**



**MR14-101 SAMPLE #2**

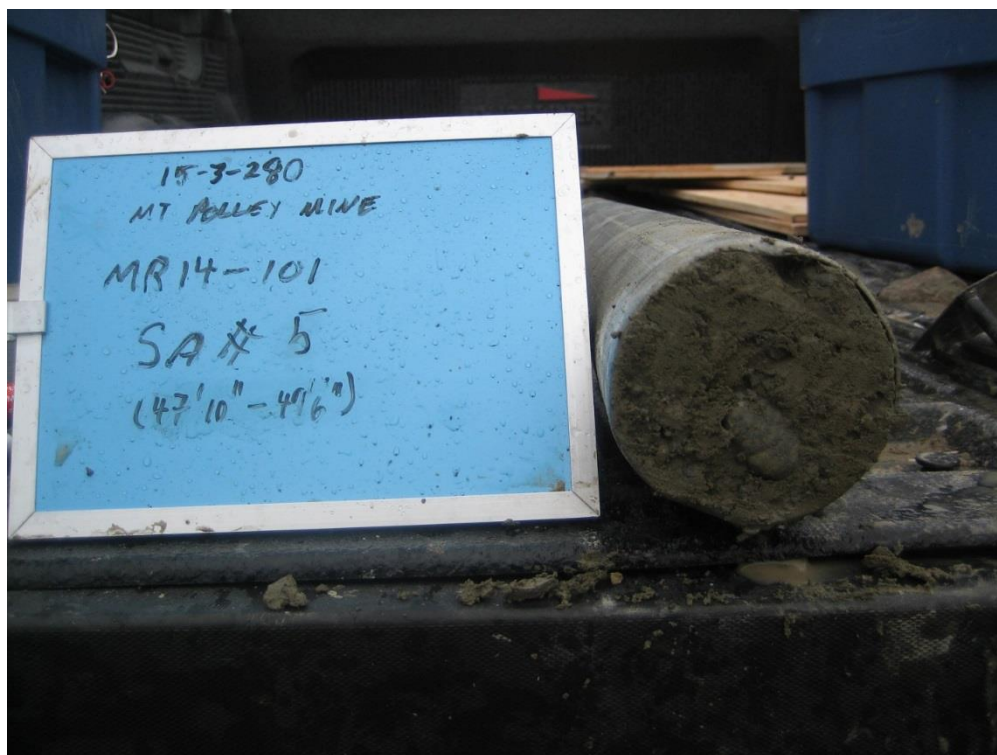




MR14-101 SAMPLE #3



MR14-101 SAMPLE #4

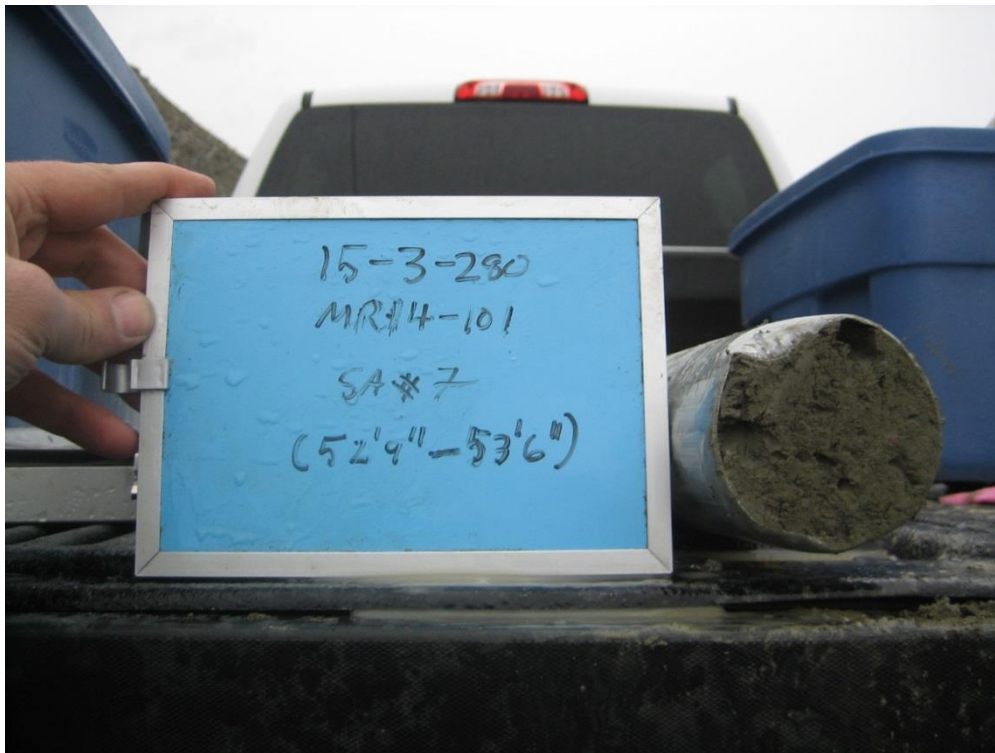


MR14-101 SAMPLE #5

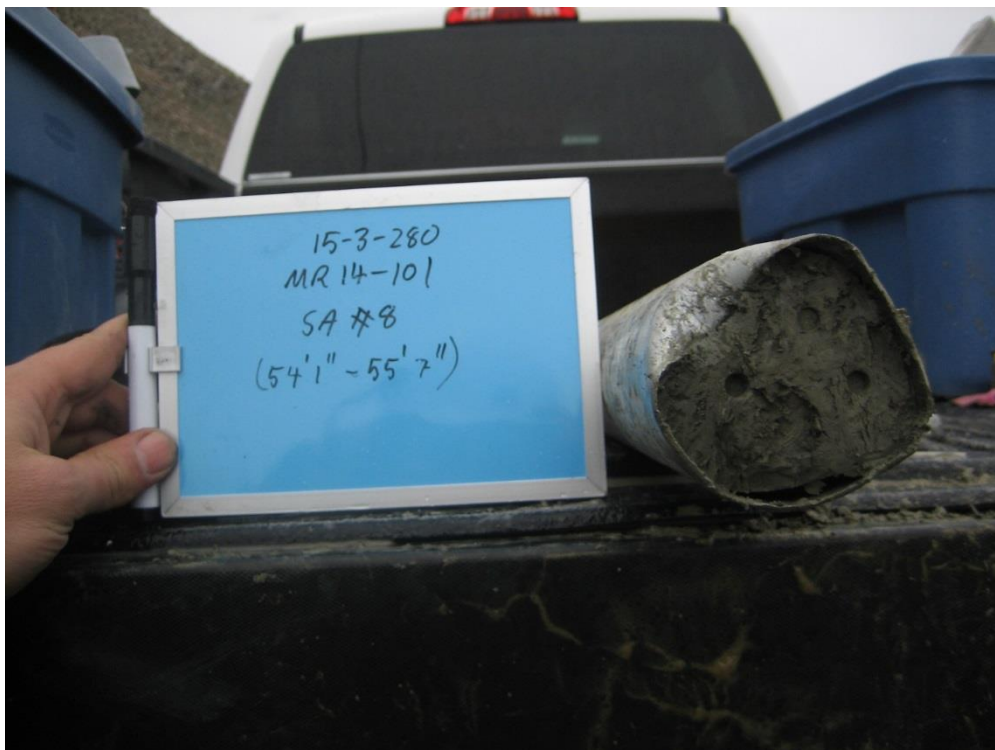


MR14-101 SAMPLE #6





MR14-101 SAMPLE #7

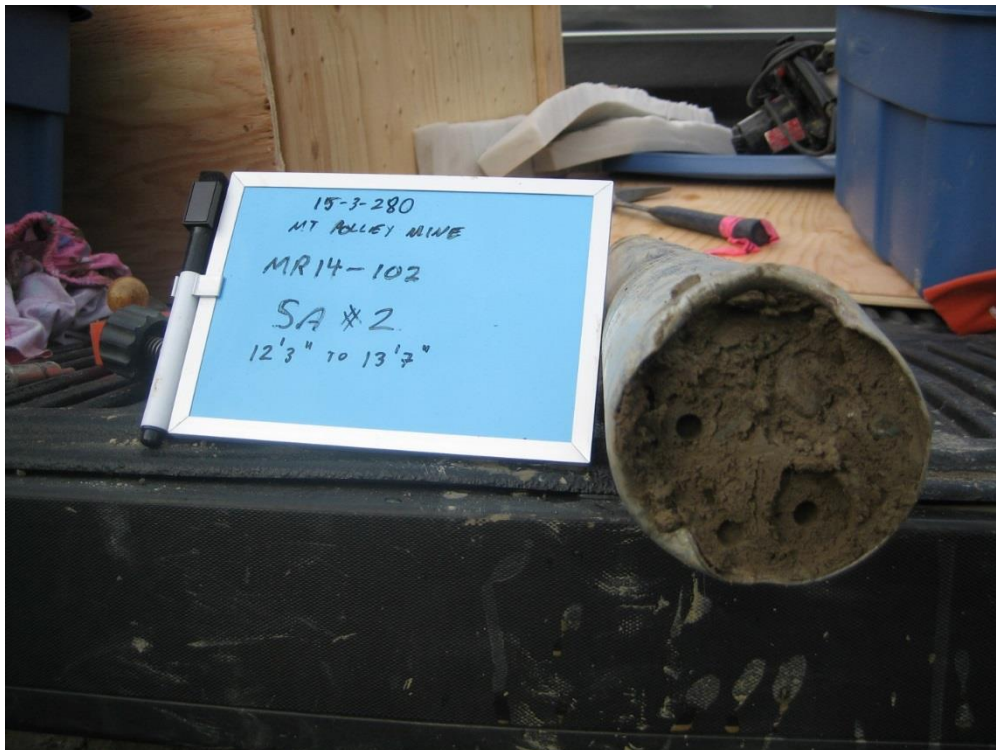


MR14-101 SAMPLE #8

**MR14-102 PHOTO SUMMARY**



**MR14-102 SAMPLE #1**



**MR14-102 SAMPLE #2**

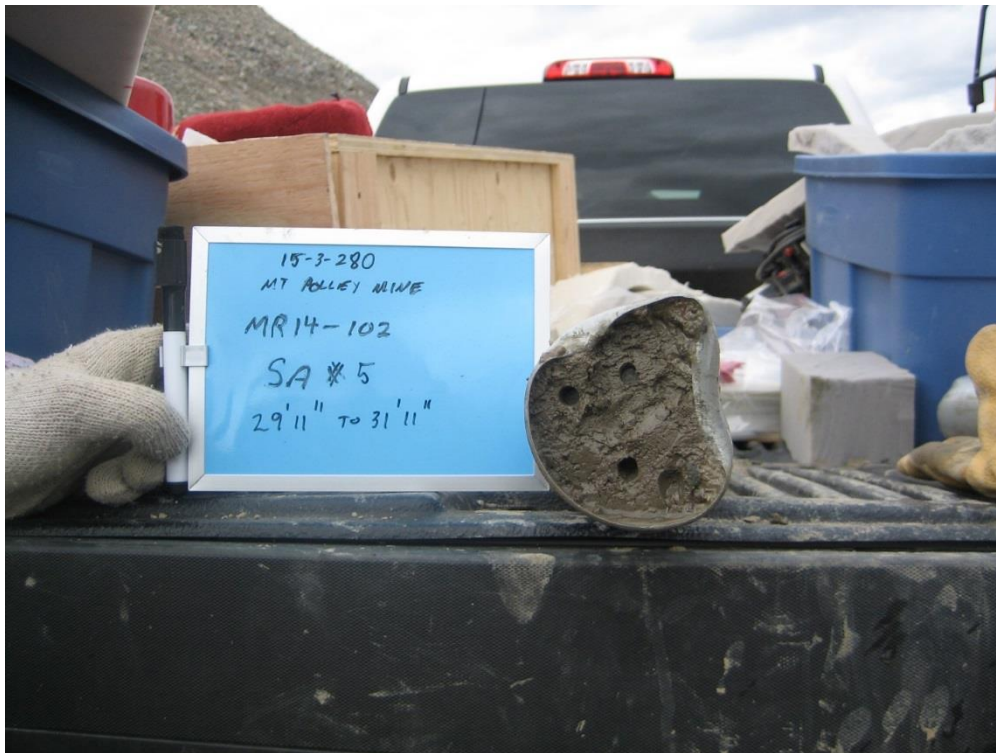




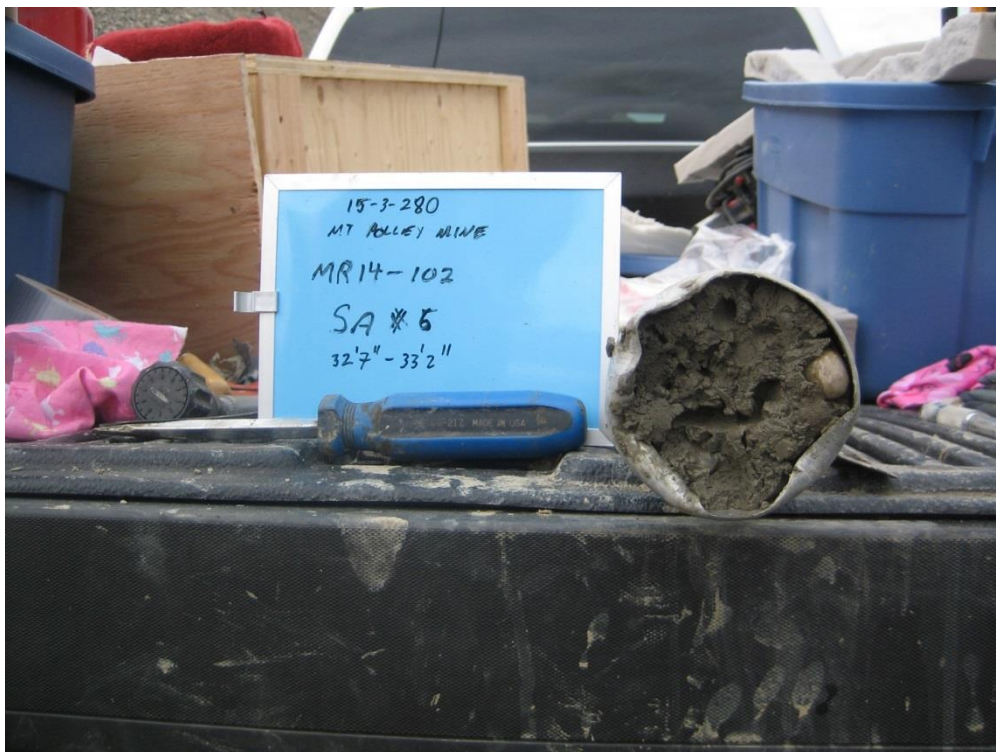
**MR14-102 SAMPLE #3**



**MR14-102 SAMPLE #4**



MR14-102 SAMPLE #5



MR14-102 SAMPLE #6



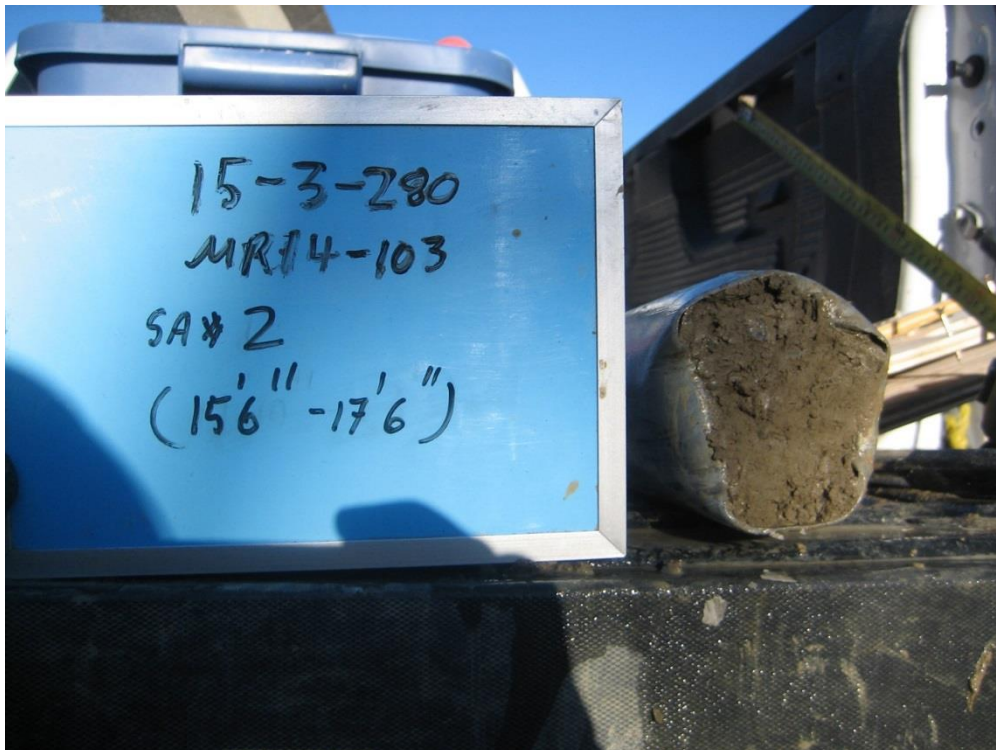


**MR14-102 SAMPLE #7**

MR14-103 PHOTO SUMMARY



MR14-103 SAMPLE #1

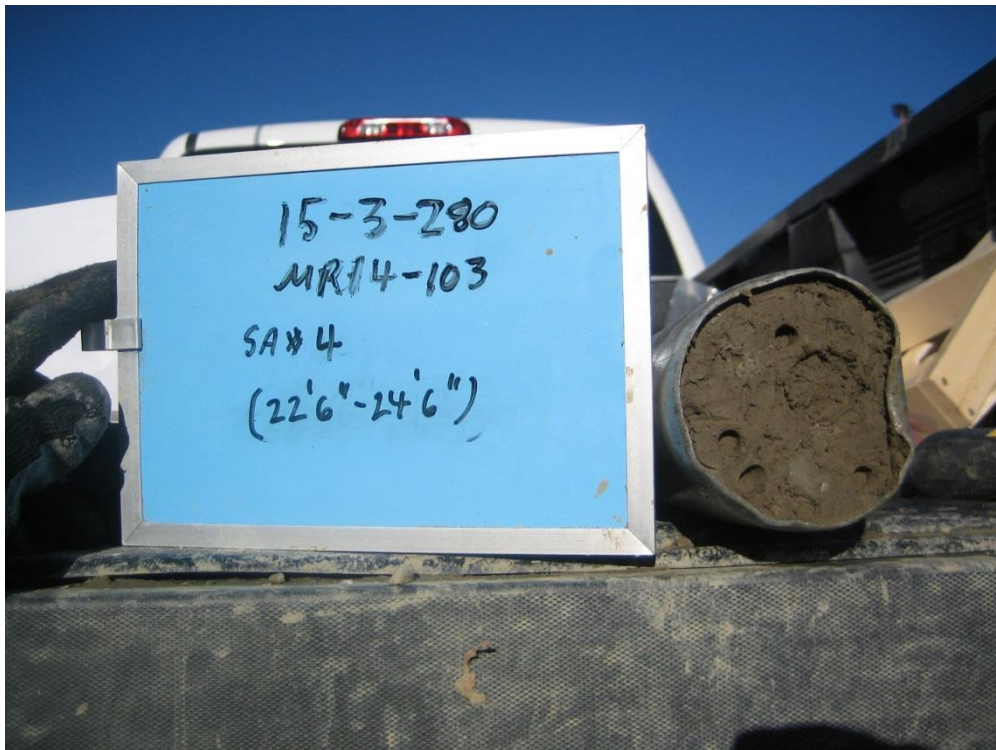


MR14-103 SAMPLE #2

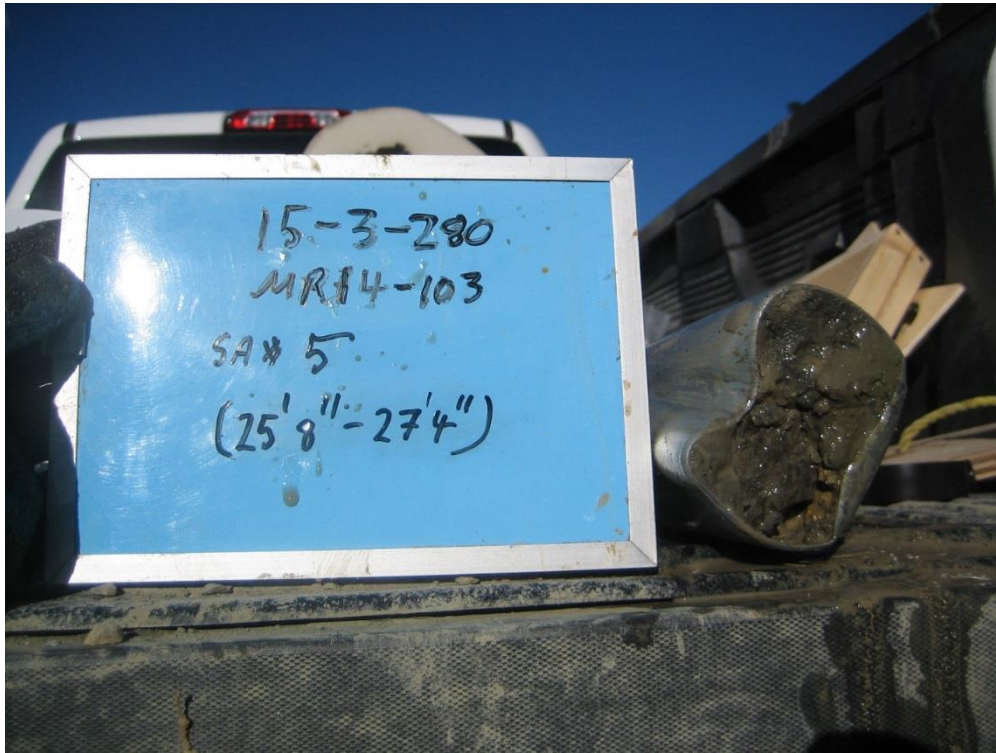




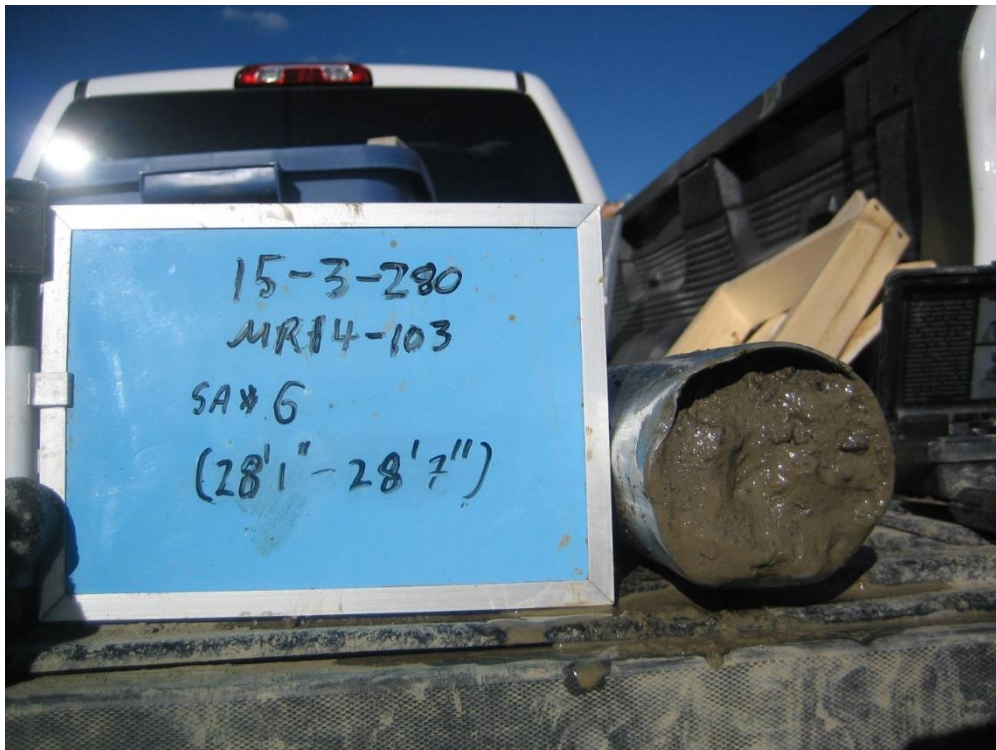
MR14-103 SAMPLE #3



MR14-103 SAMPLE #4



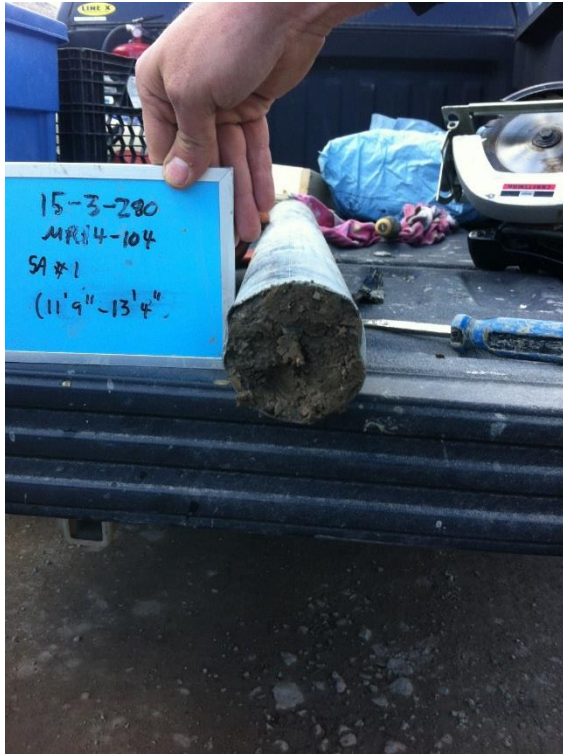
MR14-103 SAMPLE #5



MR14-103 SAMPLE #6



MR14-104 PHOTO SUMMARY

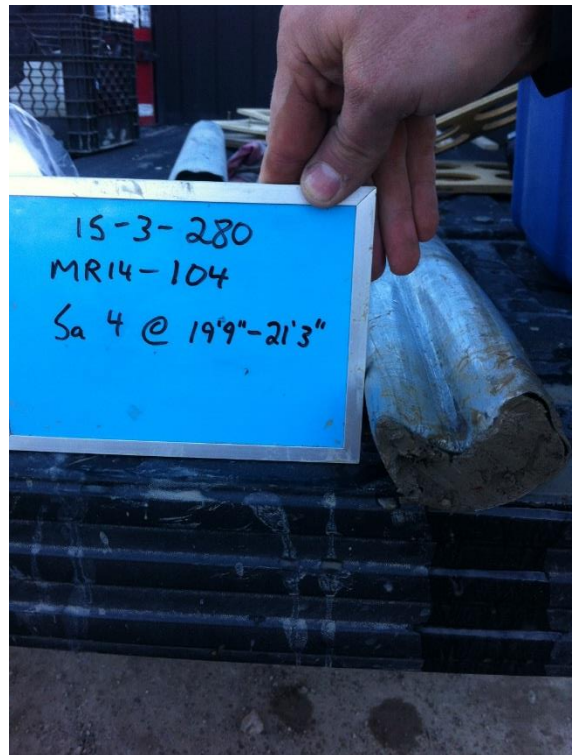


MR14-104 SAMPLE #1



MR14-104 SAMPLE #2

**SEVERE DAMAGE –  
SAMPLE BAG REQUIRED**



MR14-104 SAMPLE #3

MR14-104 SAMPLE #4

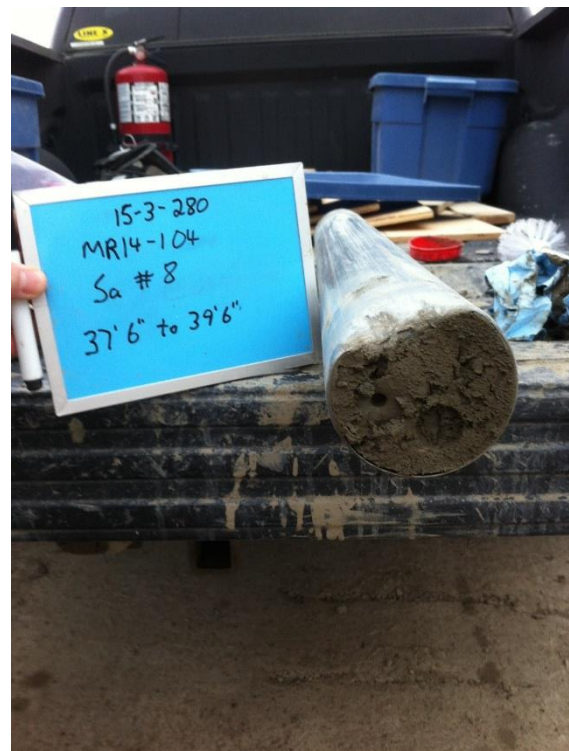


MR14-104 SAMPLE #5

## SEVERE DAMAGE – SAMPLE BAG REQUIRED



MR14-104 SAMPLE #7



MR14-104 SAMPLE #8



**MR14-104 SAMPLE #9**



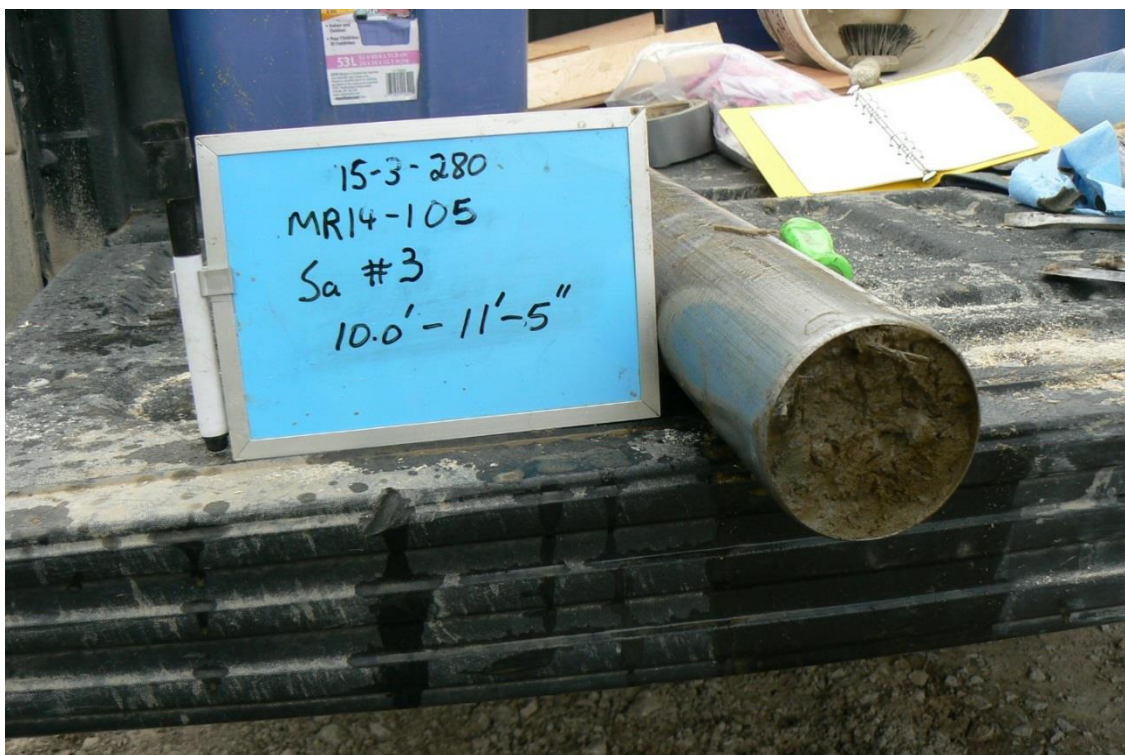
MR14-105 PHOTO SUMMARY

# NO RECOVERY

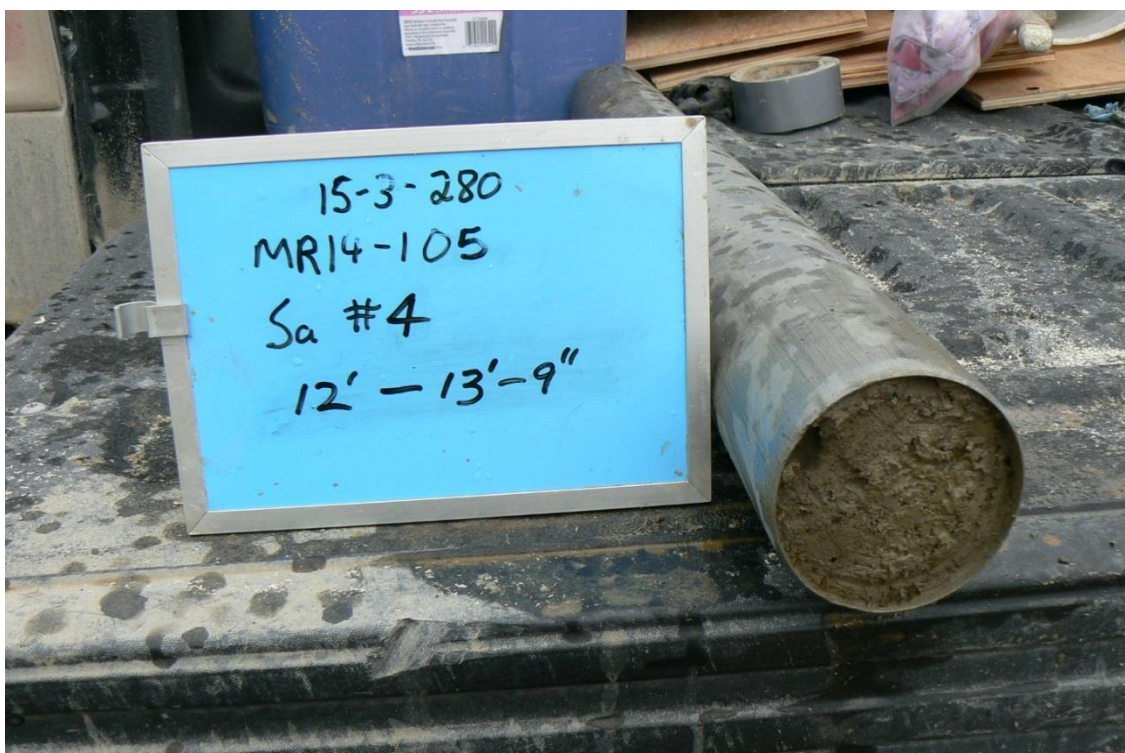
MR14-105 SAMPLE #1



MR14-105 SAMPLE #2



MR14-105 SAMPLE #3



MR14-105 SAMPLE #4





MR14-105 SAMPLE #5

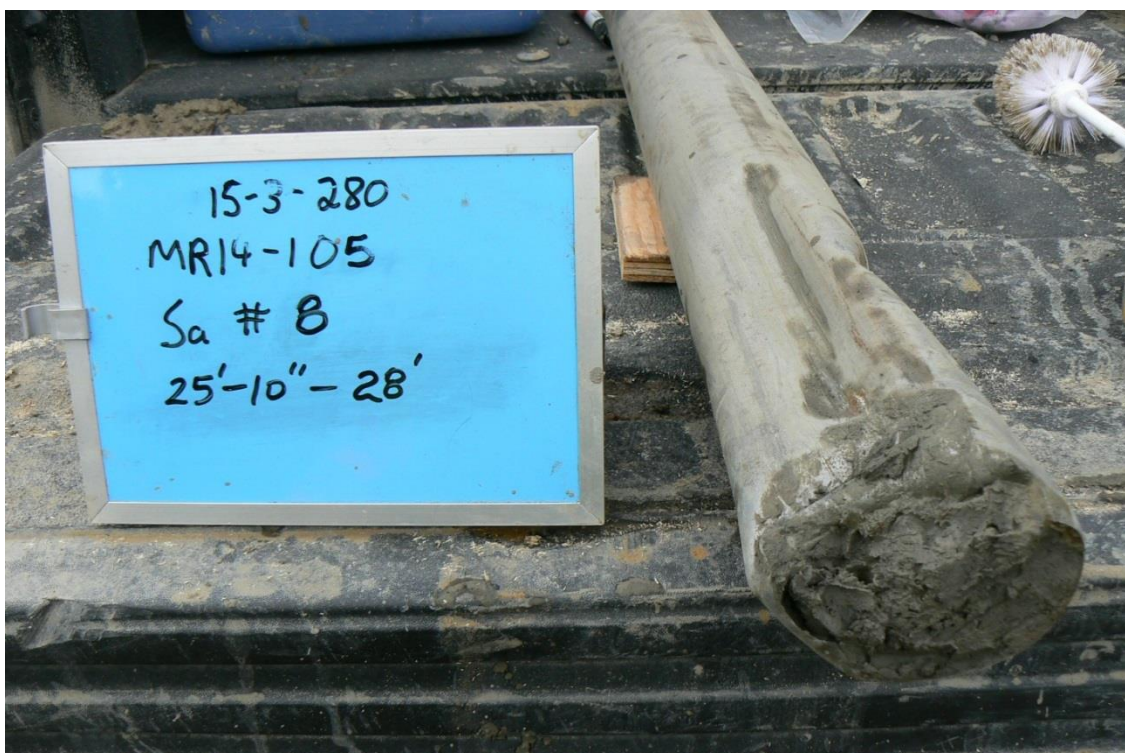


MR14-105 SAMPLE #6



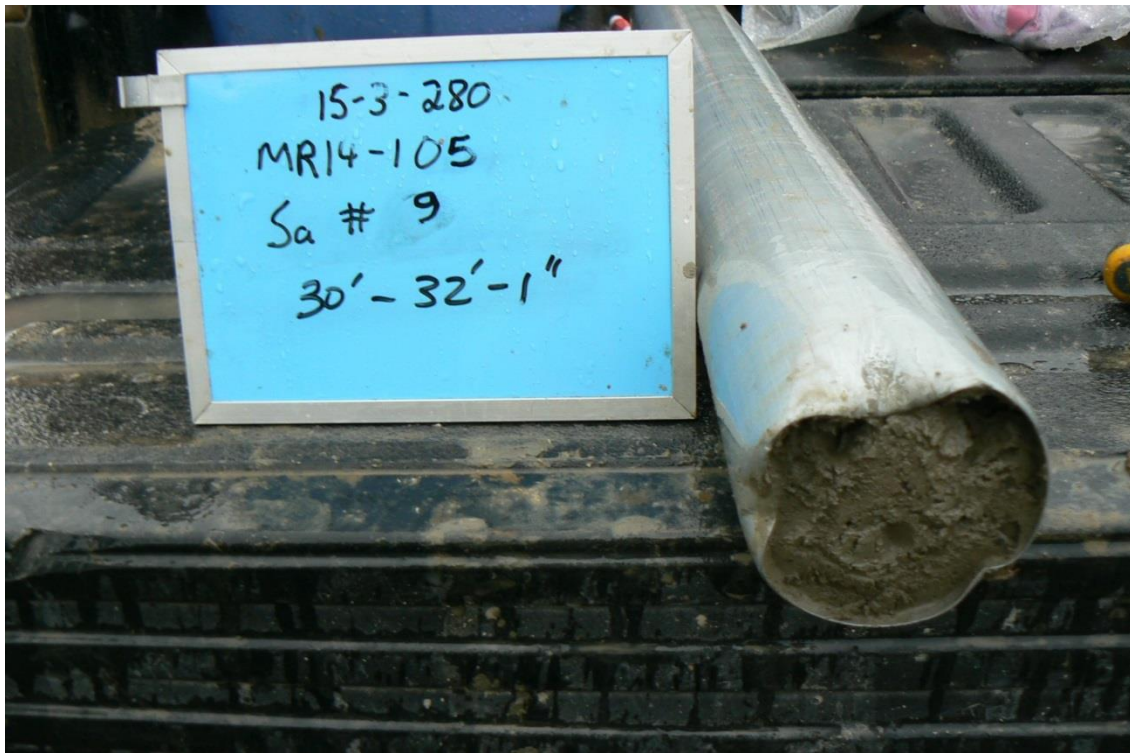


MR14-105 SAMPLE #7

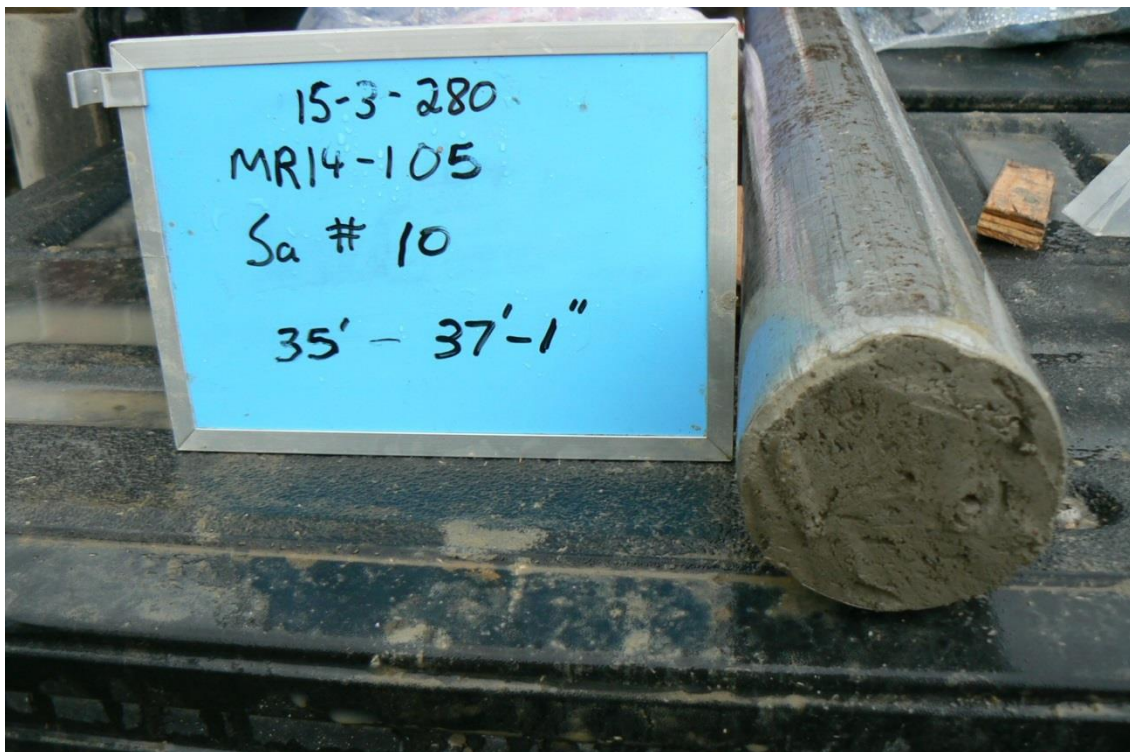


MR14-105 SAMPLE #8





MR14-105 SAMPLE #9



MR14-105 SAMPLE #10

MR14-106 PHOTO SUMMARY



MR14-106 SAMPLE #1



MR14-106 SAMPLE #2

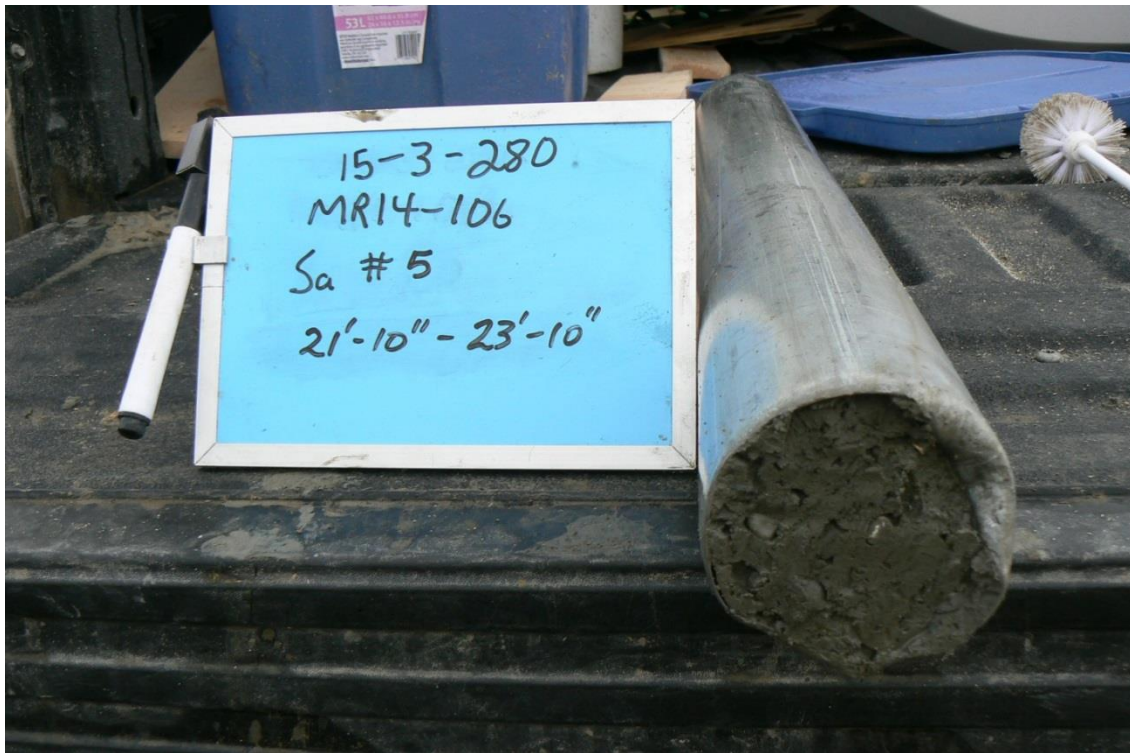




MR14-106 SAMPLE #3



MR14-106 SAMPLE #4



MR14-106 SAMPLE #5

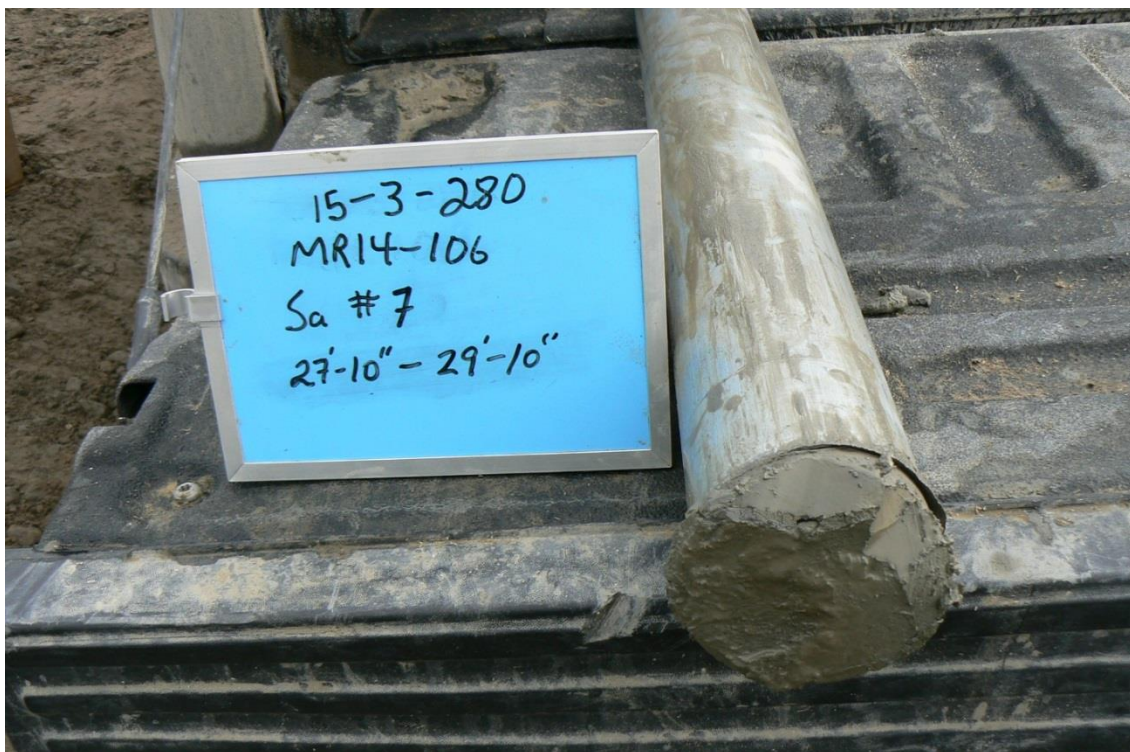


MR14-106 SAMPLE #6 – SAMPLE TUBE WAS SPLIT IN THE FIELD





MR14-106 SAMPLE #6 – SPLIT SAMPLE



MR14-106 SAMPLE #7





MR14-106 SAMPLE #8



MR14-106 SAMPLE #9

**MR14-106A PHOTO SUMMARY**



**MR14-106A SAMPLE #1**



MR14-106B PHOTO SUMMARY

**NO RECOVERY**

MR14-106B SAMPLE #1

**NO RECOVERY**

MR14-106B SAMPLE #2

**MR14-106C PHOTO SUMMARY**



**MR14-106C SAMPLE #1**



**MR14-106C SAMPLE #2**

**MR14-106D PHOTO SUMMARY**



**MR14-106D SAMPLE #1**



**MR14-106D SAMPLE #2**



**MR14-106E PHOTO SUMMARY**



**MR14-106E SAMPLE #1**



**MR14-106E SAMPLE #2**



**MR14-106E SAMPLE #3**



**MR14-106E SAMPLE #4**



**MR14-106F PHOTO SUMMARY**



**MR14-106F SAMPLE #1**



**MR14-106F SAMPLE #2**



**MR14-106F SAMPLE #3**

**MR14-106G PHOTO SUMMARY**



**MR14-106G SAMPLE #1**

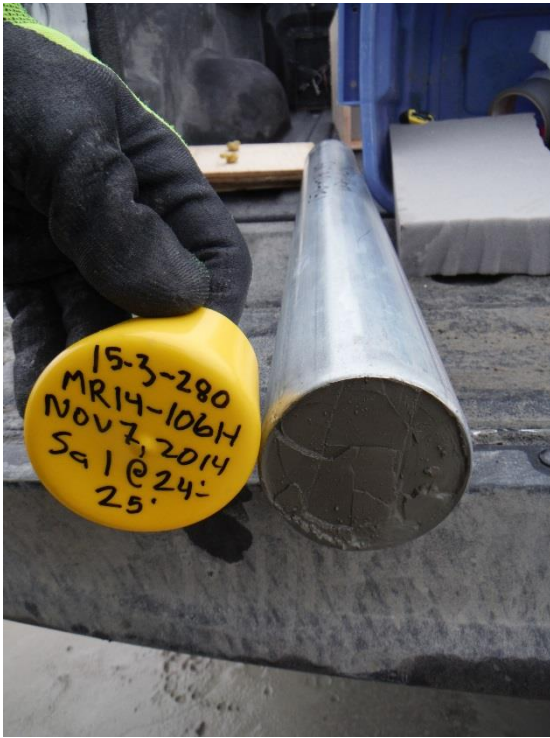


**MR14-106G SAMPLE #2**



**MR14-106G SAMPLE #3**

**MR14-106H PHOTO SUMMARY**



**MR14-106H SAMPLE #1**



**MR14-106H SAMPLE #2**



**MR14-106I PHOTO SUMMARY**



**MR14-106I SAMPLE #1**



**MR14-106I SAMPLE #2**

MR14-107 PHOTO SUMMARY



MR14-107 SAMPLE #1

**NO RECOVERY**

MR14-107 SAMPLE #2





MR14-107 SAMPLE #3



MR14-107 SAMPLE #4





MR14-107 SAMPLE #5



MR14-107 SAMPLE #6



MR14-107 SAMPLE #7



MR14-107A PHOTO SUMMARY



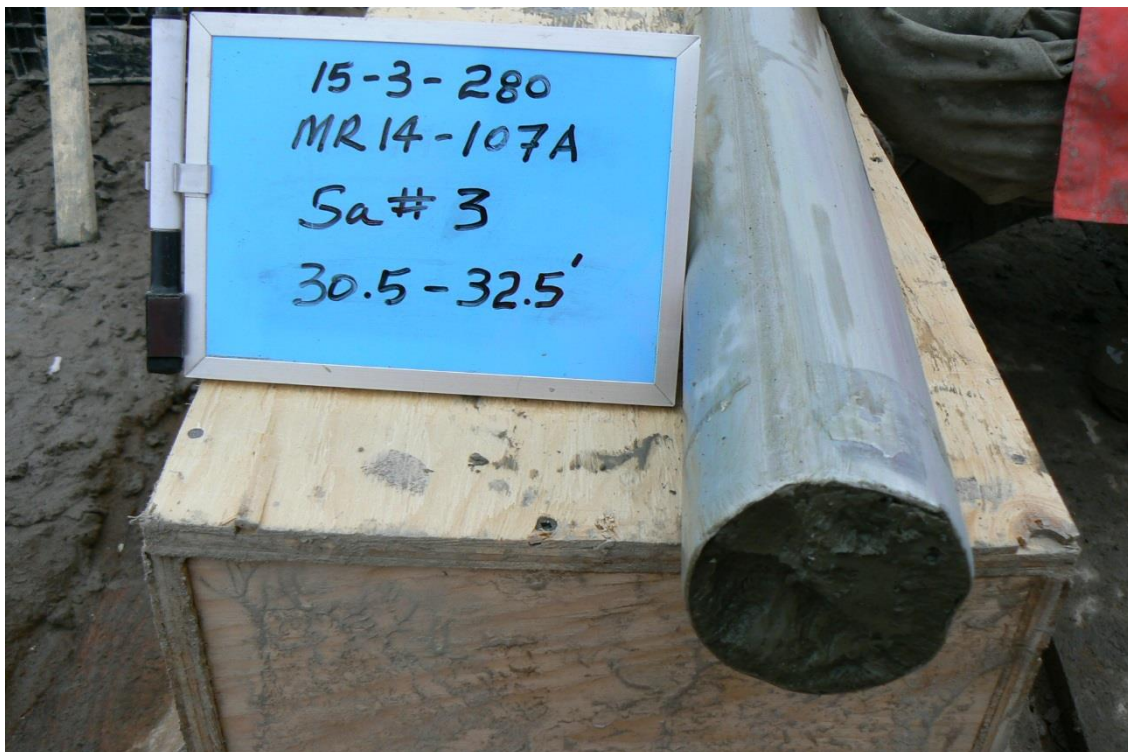
MR14-107A SAMPLE #1



MR14-107A SAMPLE #2



MR14-107A SAMPLE #2

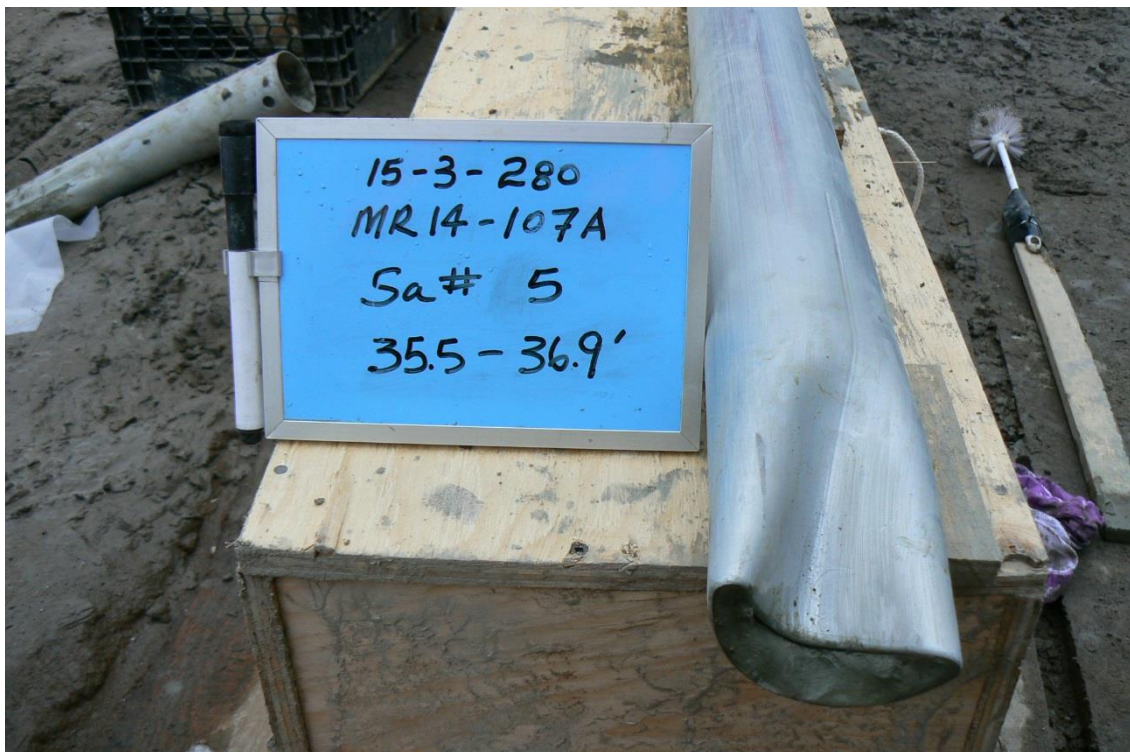


MR14-107A SAMPLE #3





MR14-107A SAMPLE #4



MR14-107A SAMPLE #5





MR14-107A SAMPLE #6



MR14-107A SAMPLE #7



MR14-107A SAMPLE #8



**MR14-107B PHOTO SUMMARY**



**MR14-107B SAMPLE #1**

MR14-108 PHOTO SUMMARY



MR14-108 SAMPLE #1



MR14-108 SAMPLE #2





MR14-108 SAMPLE #3



MR14-108 SAMPLE #4





MR14-108 SAMPLE #5



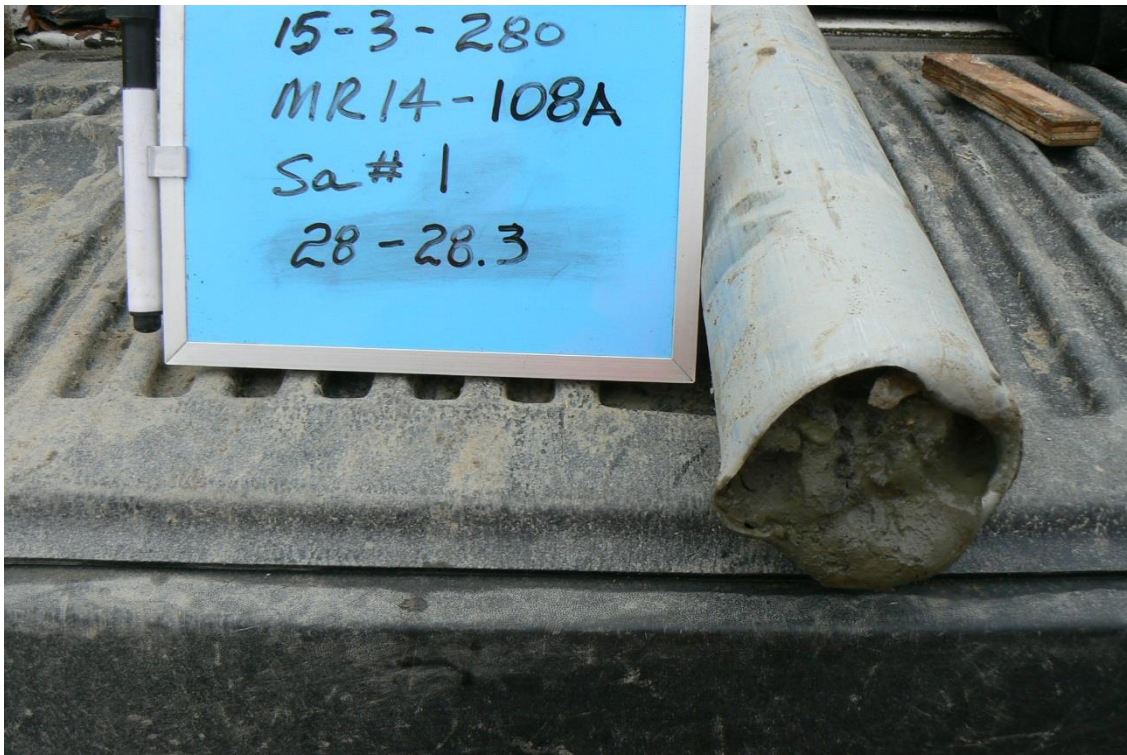
MR14-108 SAMPLE #6





MR14-108 SAMPLE #7

MR14-108A PHOTO SUMMARY



MR14-108A SAMPLE #1



MR14-108A SAMPLE #2

**NO PHOTO TAKEN**

**MR14-108A SAMPLE #3**

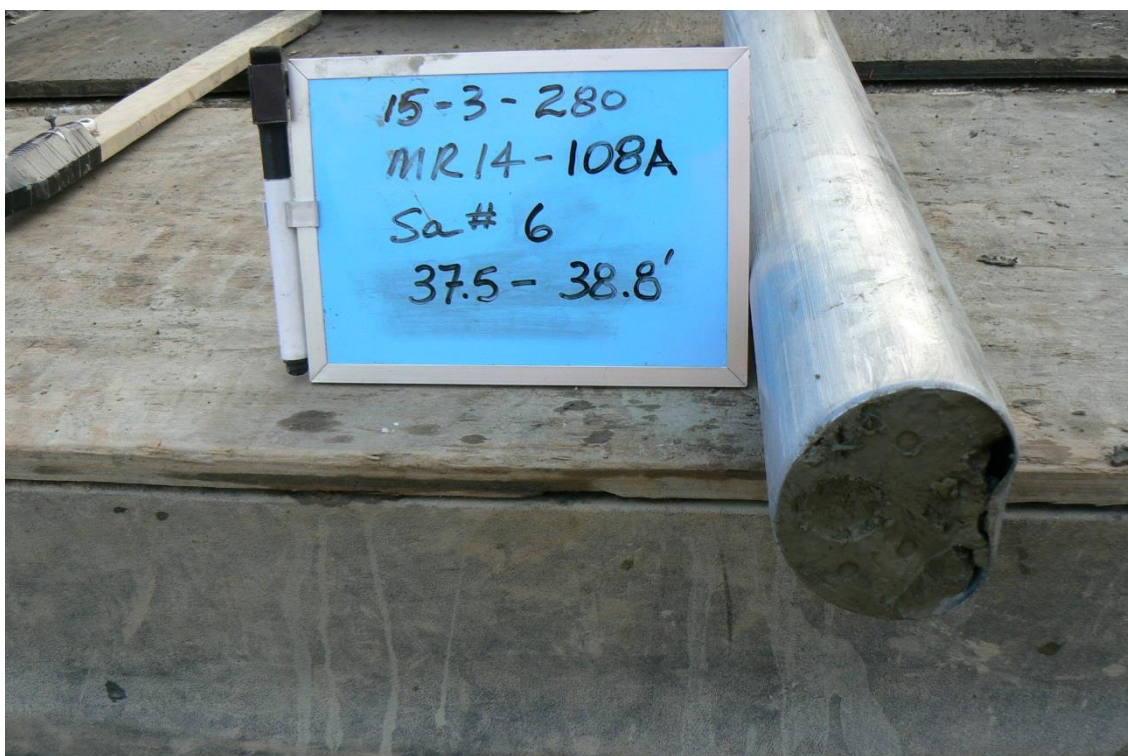
**NO RECOVERY**

**MR14-108A SAMPLE #4**





MR14-108A SAMPLE #5 – FIELD LABEL INCORRECT



MR14-108A SAMPLE #6



MR14-109 PHOTO SUMMARY



MR14-109 SAMPLE #1



MR14-109 SAMPLE #2





MR14-109 SAMPLE #3



MR14-109 SAMPLE #4





MR14-109 SAMPLE #5



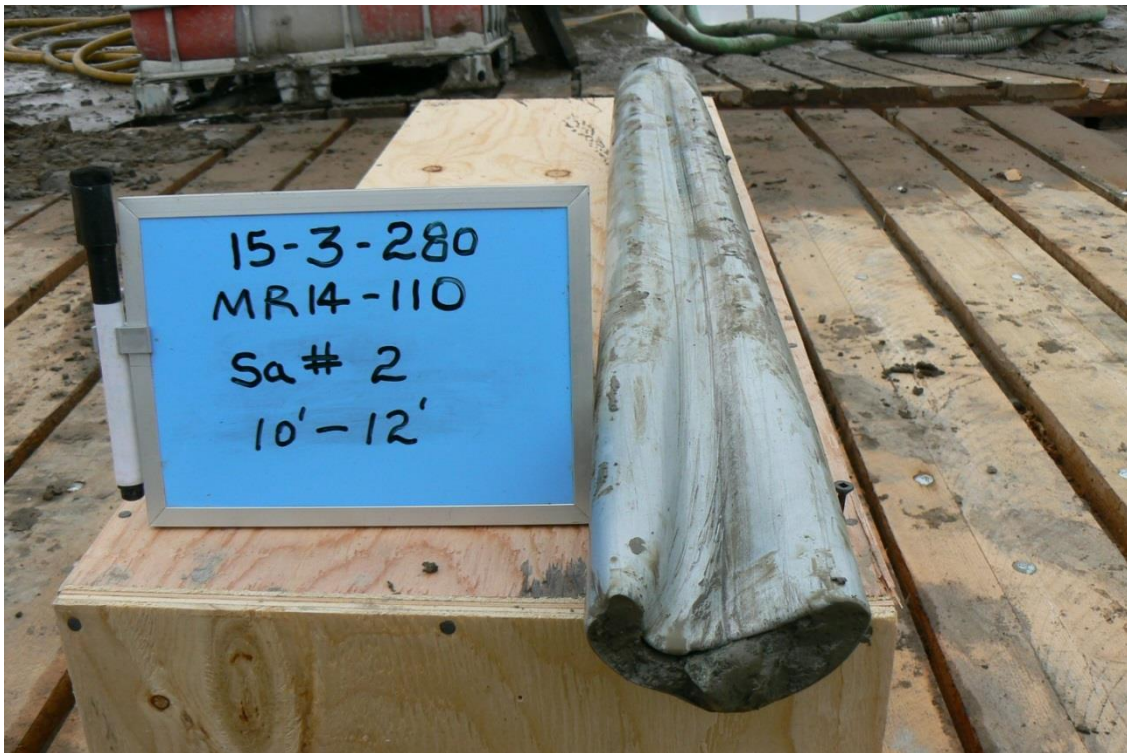
MR14-109 SAMPLE #6



**MR14-110 PHOTO SUMMARY**

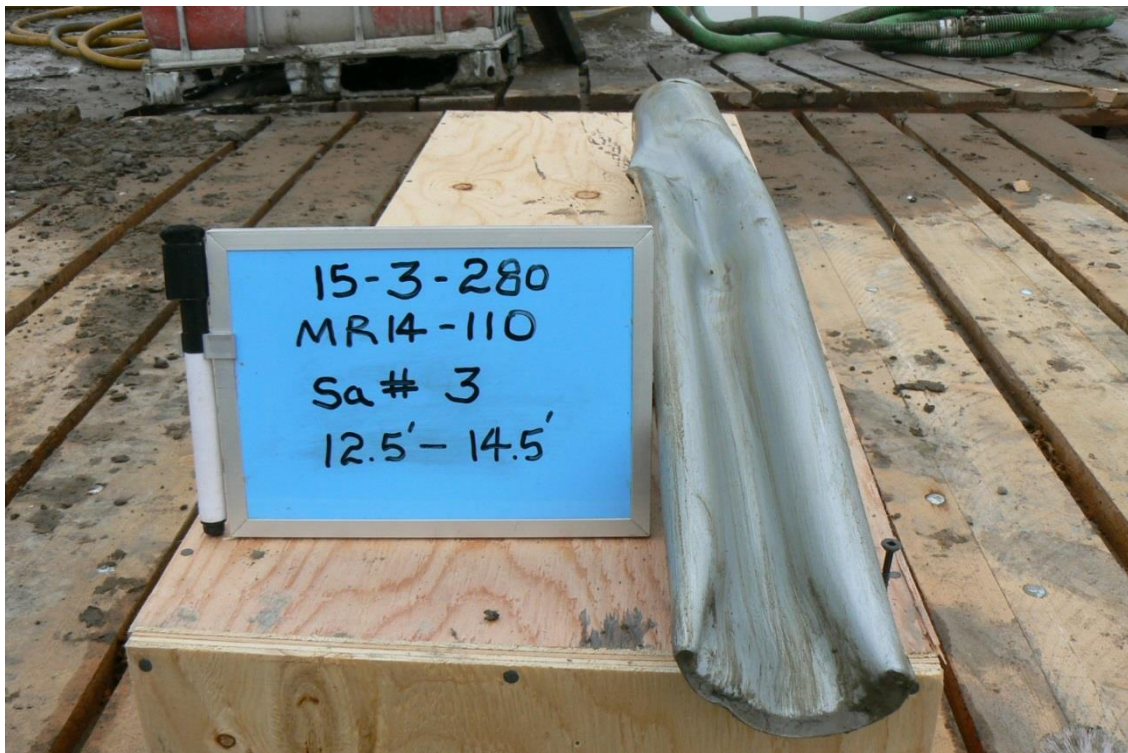


**MR14-110 SAMPLE #1**

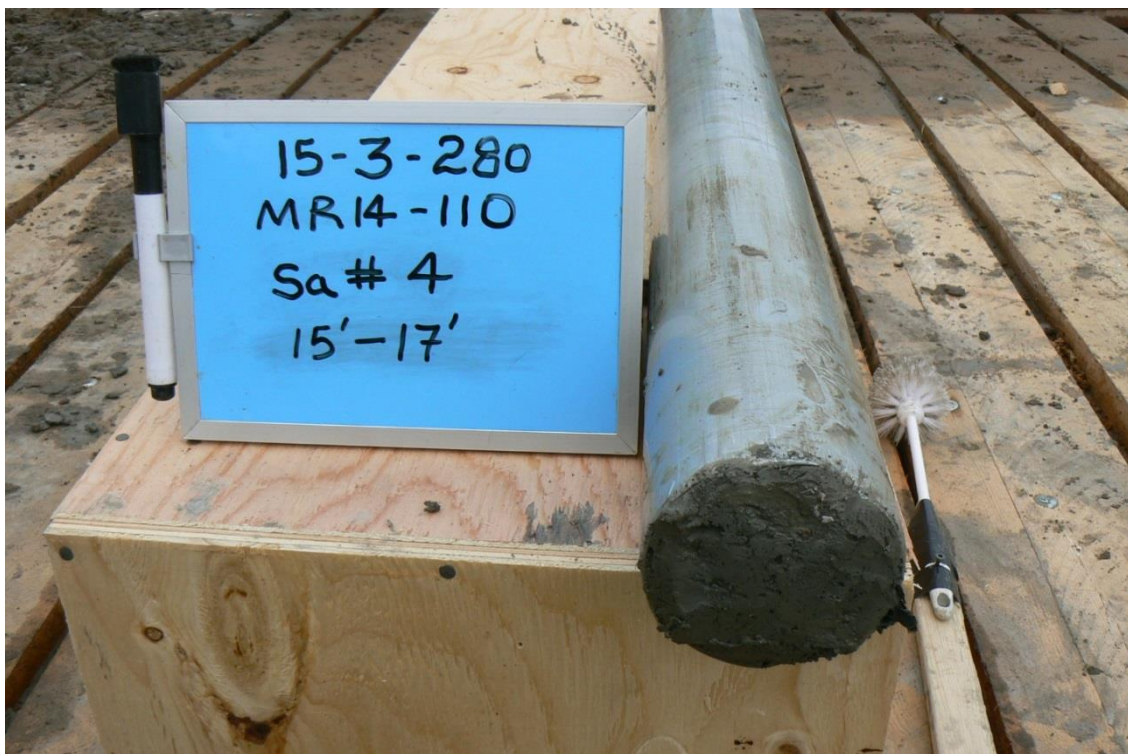


**MR14-110 SAMPLE #2**





MR14-110 SAMPLE #3



MR14-110 SAMPLE #4





MR14-110 SAMPLE #5



MR14-110 SAMPLE #6



MR14-111 PHOTO SUMMARY



MR14-111 SAMPLE #1



MR14-111 SAMPLE #2





MR14-111 SAMPLE #3

# NO RECOVERY

MR14-111 SAMPLE #4



MR14-111 SAMPLE #5



MR14-111 SAMPLE #6





MR14-111 SAMPLE #7

MR14-112 PHOTO SUMMARY



MR14-112 SAMPLE #1

**NO RECOVERY**

MR14-112 SAMPLE #2





MR14-112 SAMPLE #3



MR14-112 SAMPLE #4





MR14-112 SAMPLE #5



MR14-112 SAMPLE #6



MR14-113 PHOTO SUMMARY

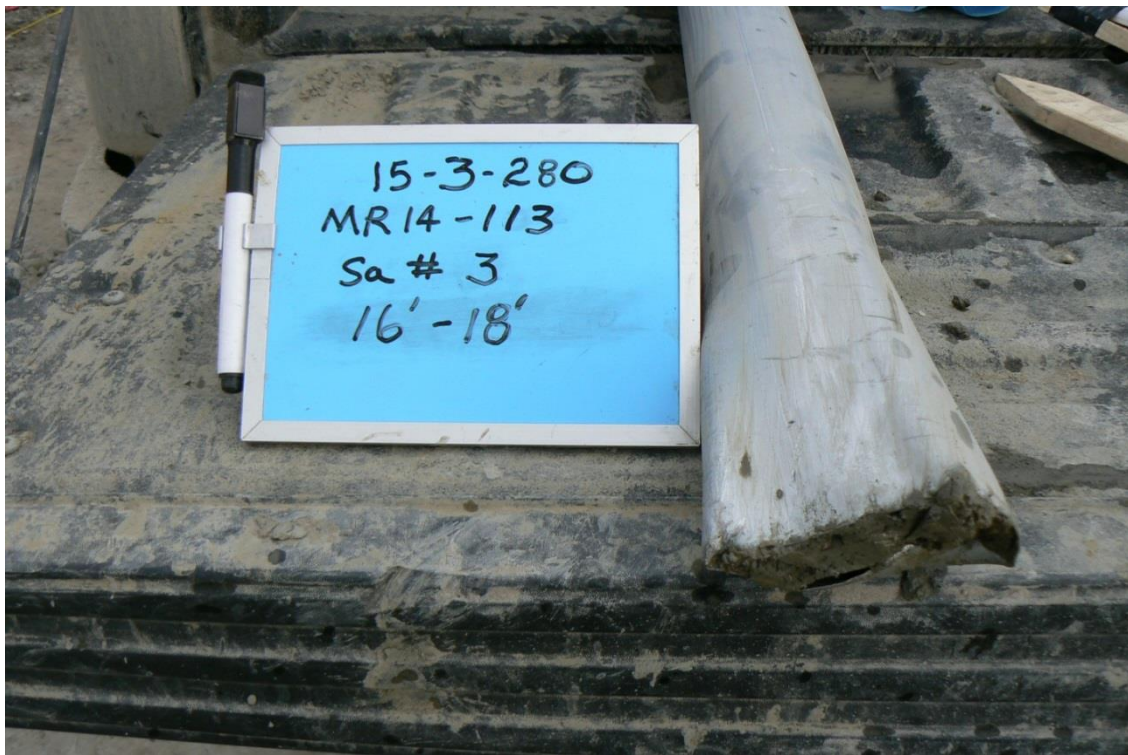


MR14-113 SAMPLE #1



MR14-113 SAMPLE #2





MR14-113 SAMPLE #3



MR14-113 SAMPLE #4





MR14-113 SAMPLE #5



MR14-113 SAMPLE #6



MR14-114 PHOTO SUMMARY



MR14-114 SAMPLE #1



MR14-114 SAMPLE #2





MR14-114 SAMPLE #3

# NO RECOVERY

MR14-114 SAMPLE #4



MR14-114 SAMPLE #5

# NO RECOVERY

MR14-114 SAMPLE #6



MR14-114 SAMPLE #7



MR14-115 PHOTO SUMMARY



MR14-115 SAMPLE #1

**DISTURBED BAG  
SAMPLE –  
NO PHOTO**

MR14-115 SAMPLE #2



MR14-115 SAMPLE #3



MR14-115 SAMPLE #4



**NO RECOVERY**

**MR14-115 SAMPLE #5**

**NO RECOVERY**

**MR14-115 SAMPLE #6**

**RH14-117 PHOTO SUMMARY**



**RH14-117 SAMPLE #1 – FIELD LABEL INCORRECT**



**RH14-117 SAMPLE #2 – FIELD LABEL INCORRECT**



**RH14-117 SAMPLE #3 – FIELD LABEL INCORRECT**

**RH14-117A PHOTO SUMMARY**



**RH14-117A SAMPLE #1 – FIELD LABEL  
INCORRECT**



**RH14-117A SAMPLE #2 – FIELD LABEL  
INCORRECT**

RH14-118 PHOTO SUMMARY



RH14-118 SAMPLE #1 – FIELD LABEL INCORRECT

**DISTURBED  
BAG SAMPLE  
NO PHOTO**

RH14-118 SAMPLE #2

**DISTURBED  
BAG SAMPLE      NO RECOVERY  
NO PHOTO**

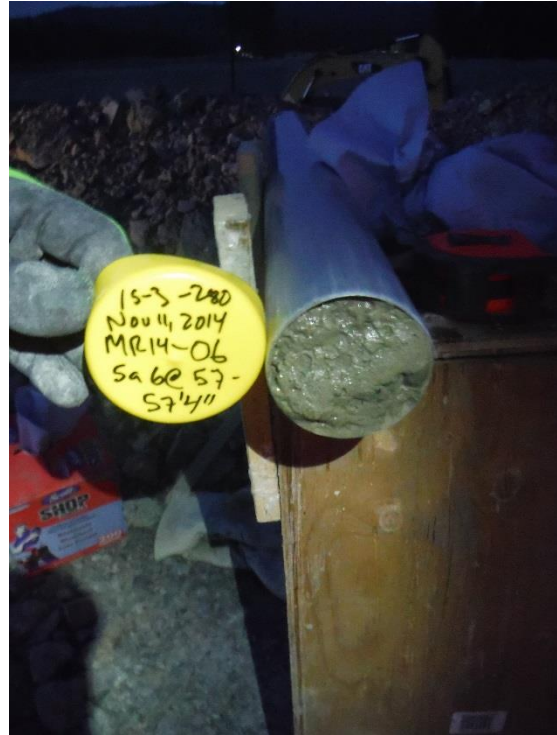
RH14-118 SAMPLE #3

RH14-118 SAMPLE #4





**RH14-118 SAMPLE #5 – FIELD LABEL INCORRECT**



**RH14-118 SAMPLE #6 – FIELD LABEL INCORRECT**