PROJECT: 12-1125-0045

RECORD OF BOREHOLE: 12-3-5

SHEET 2 OF 2

LOCATION: N 5021577.15 ;E 466668.45

BORING DATE: December 7, 2012

DATUM: Geodetic

INCLINATION: -90° AZIMUTH: ---

SAMPLER HAMMER, 64kg; DROP, 760mm

PENETRATION TEST HAMMER, 64kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m (20 40 60 80) / SHEAR STRENGTH Cu, kPa (nat V. + Q - ●, rem V. ⊕ U - ○) (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-8} 10^{-6} 10^{-4} 10^{-2}) / WATER CONTENT PERCENT (Wp W Wl) (20 40 60 80)	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
		--- CONTINUED FROM PREVIOUS PAGE ---									'B' 'A'
15	Power Auger	Soft to stiff grey and grey brown CLAY to SILTY CLAY, with black staining		60.43	2	73 TP	PH				25 mm Diam. PVC #10 Slot Screen 'A'; Silica Sand
16		End of Borehole Note: Soil stratigraphy inferred from various soil sampling methods and CPT.		15.80							
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											

DEPTH SCALE

1 : 75

Golder Associates

LOGGED: DG

CHECKED: SAT

PROJECT: 12-1125-0045

RECORD OF BOREHOLE: 12-3-6

SHEET 1 OF 1

LOCATION: N 5021574.40 ;E 466669.89

BORING DATE: December 7, 2012

DATUM: Geodetic

INCLINATION: -90° AZIMUTH: ---

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m (20 40 60 80) / SHEAR STRENGTH Cu, kPa (nat V. + Q - ●; rem V. ⊕ U - ○) (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-8} 10^{-6} 10^{-4} 10^{-2}) / WATER CONTENT PERCENT (Wp ⊖W WI) (20 40 60 80)	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
		GROUND SURFACE		76.27							MON. WELL
0	Power Auger 200 mm Diam. (HS)	TOPSOIL		0.00							Protective Casing; Bentonite Seal
		Loose to compact grey brown to grey SILTY SAND, trace clay		0.20							Silica Sand
1				75.13							50 mm Diam. PVC #10 Slot Screen
		Grey SANDY SILT, trace clay		1.14							
				74.75							
		End of Borehole		1.52							
2		Note: Soil stratigraphy inferred from various soil sampling methods and CPT.									
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

DEPTH SCALE

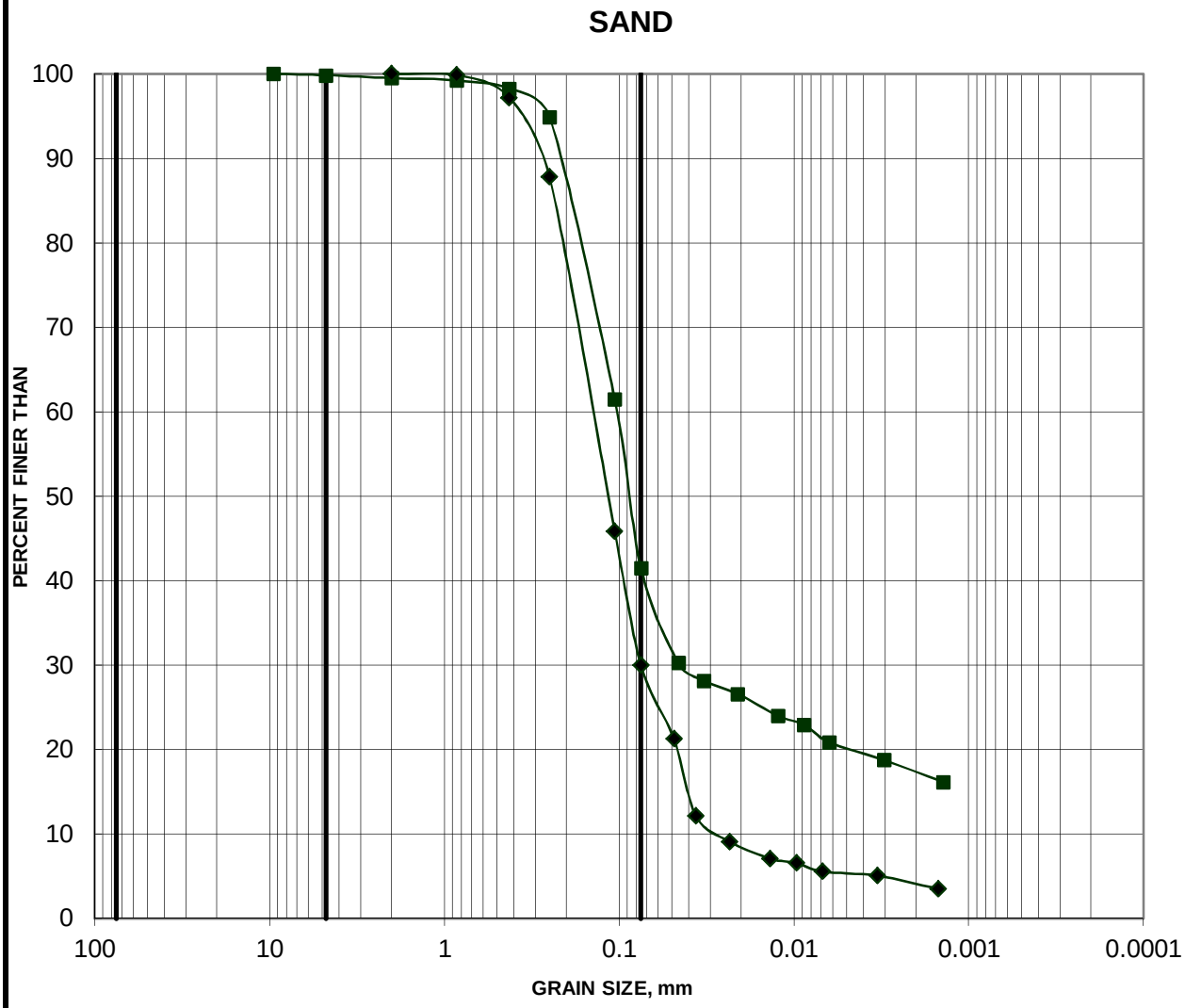
1 : 75

Golder Associates

LOGGED: DG

CHECKED: SAT

GRAIN SIZE DISTRIBUTION



Cobble	coarse	fine	coarse	medium	fine	SILT AND CLAY
Size	GRAVEL SIZE		SAND SIZE			

Borehole	Sample	Depth (m)
12-1-2	1B	0.25-0.55
12-3-2	2	0.61-1.22

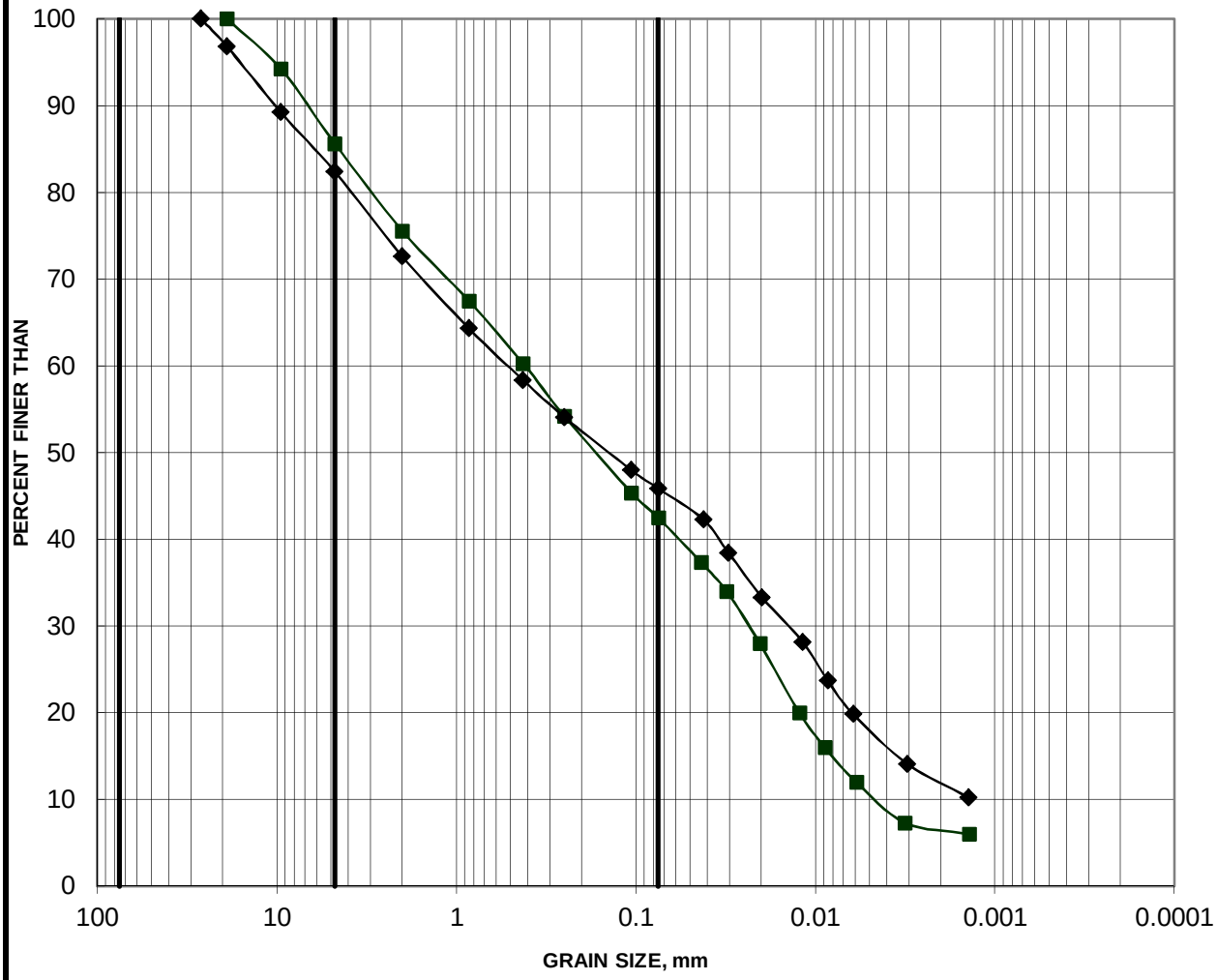
Project: 12-1125-0045/1000

Golder Associates

Created by: CW
Checked by: CNM

GRAIN SIZE DISTRIBUTION

GLACIAL TILL



Cobble	coarse	fine	coarse	medium	fine	SILT AND CLAY
Size	GRAVEL SIZE		SAND SIZE			

Borehole	Sample	Depth (m)
12-1-3	24	37.03-37.64
12-3-3	13	37.19-37.80

Project: 12-1125-0045/1000

Golder Associates

Created by: CW
Checked by: CNM

ATTACHMENT TSD#1-B-3

Packer Testing Results – BH09-3 through BH09-6 (NRR Site)

Table TSD#1-B-3-1
Packer Test Results
NRR Site, CRRRC Project

BH No.	Range depth (feet)		Pressure (psi)	k (m/sec)
BH09-3	20.0	28.0	5.0	no take
BH09-3	20.0	28.0	10.0	no take
BH09-3	20.0	28.0	15.0	no take
BH09-3	20.0	28.0	20.0	no take
			Average	**No take**
BH09-3	24.0	32.0	10.0	no take
BH09-3	24.0	32.0	15.0	no take
BH09-3	24.0	32.0	20.0	1.7E-07
BH09-3	24.0	32.0	15.0	no take
BH09-3	24.0	32.0	10.0	no take
			Average	**1.7E-07**
BH09-3	32.0	40.0	15.0	no take
BH09-3	32.0	40.0	20.0	no take
BH09-3	32.0	40.0	25.0	no take
			Average	**no take**
BH09-3	40.0	48.0	20.0	no take
BH09-3	40.0	48.0	25.0	no take
BH09-3	40.0	48.0	30.0	no take
			Average	**no take**
BH09-3	48.0	56.0	25.0	no take
BH09-3	48.0	56.0	30.0	no take
BH09-3	48.0	56.0	35.0	no take
			Average	**no take**
BH09-3	56.0	64.0	30.0	no take
BH09-3	56.0	64.0	35.0	no take
BH09-3	56.0	64.0	40.0	no take
			Average	**no take**
BH09-3	64.0	72.0	35.0	no take
BH09-3	64.0	72.0	40.0	no take
BH09-3	64.0	72.0	45.0	no take
			Average	**no take**
BH09-3	72.0	80.0	40.0	no take
BH09-3	72.0	80.0	45.0	no take
BH09-3	72.0	80.0	50.0	no take
			Average	**no take**
BH09-3	80.0	100.0	100.0	no take
BH09-3	80.0	100.0	100.0	no take
BH09-3	80.0	100.0	100.0	no take
			Average	**no take**

Notes:
No leak was noted from 24'-32'
Based on test ranges 20'-28' and 24'-32', range 28'-32' may have a k of 1.7E-7 m/sec at 20 PSI

Entered: PH
Checked: JPAO

Table TSD#1-B-3-1
Packer Test Results
NRR Site, CRRRC Project

BH No.	Range depth (feet)		Pressure (psi)	k (m/sec)
BH09-4	9.0	17.0	5.0	3.0E-06
BH09-4	9.0	17.0	10.0	2.7E-06
BH09-4	9.0	17.0	15.0	3.2E-06
BH09-4	9.0	17.0	5 (check)	3.3E-06
			Average	**3.0E-06**
BH09-4	16.0	24.0	5.0	1.7E-07
BH09-4	16.0	24.0	10.0	4.8E-08
BH09-4	16.0	24.0	15.0	6.9E-07
BH09-4	16.0	24.0	5 (check)	see notes
			Average	**3.0E-07**
BH09-4	24.0	32.0	10.0	no take
BH09-4	24.0	32.0	15.0	no take
BH09-4	24.0	32.0	20.0	no take
			Average	**no take**
BH09-4	32.0	40.0	16.0	no take
BH09-4	32.0	40.0	22.0	no take
BH09-4	32.0	40.0	28.0	no take
			Average	**no take**
BH09-4	40.0	48.0	25.0	no take
BH09-4	40.0	48.0	30.0	no take
BH09-4	40.0	48.0	35.0	no take
			Average	**no take**
BH09-4	48.0	56.0	26.0	no take
BH09-4	48.0	56.0	32.0	no take
BH09-4	48.0	56.0	38.0	no take
BH09-4	48.0	56.0	26 (check)	no take
			Average	**no take**
BH09-4	56.0	64.0	26.0	no take
BH09-4	56.0	64.0	33.0	no take
BH09-4	56.0	64.0	40.0	no take
BH09-4	56.0	64.0	26 (check)	no take
			Average	**no take**
BH09-4	61.0	101.1	40.0	no take
BH09-4	61.0	101.1	50.0	no take
BH09-4	61.0	101.1	60.0	no take
BH09-4	61.0	101.1	40 (check)	no take
			Average	**no take**
BH09-4	71.0	101.1	40.0	no take
BH09-4	71.0	101.1	50.0	no take
BH09-4	71.0	101.1	60.0	no take
BH09-4	71.0	101.1	40 (check)	no take
			Average	**no take**
BH09-4	81.0	101.1	50.0	no take
BH09-4	81.0	101.1	60.0	1.3E-08
BH09-4	81.0	101.1	70.0	3.0E-08
BH09-4	81.0	101.1	50 (check)	2.6E-08
			Average	**2.3E-08**
BH09-4	91.0	101.1	50.0	no take
BH09-4	91.0	101.1	60.0	no take
BH09-4	91.0	101.1	70.0	no take
BH09-4	91.0	101.1	50.0	no take
			Average	**no take**

Notes:
A slight backpressure and reverse flow was noted for the second 5 PSI test (check test) from Range 16-24'

Entered: PH
Checked: JPAO

Table TSD#1-B-3-1
Packer Test Results
NRR Site, CRRRC Project

BH No.	Range depth (feet)		Pressure (psi)	k (m/sec)
BH09-5	62.0	84.0	36.0	no take
BH09-5	62.0	84.0	42.0	no take
BH09-5	62.0	84.0	48.0	no take
			Average	**No take**
BH09-5	69.0	84.0	40.0	no take
BH09-5	69.0	84.0	46.0	no take
BH09-5	69.0	84.0	52.0	no take
			Average	**No take**
BH09-5	74.0	84.0	40.0	no take
BH09-5	74.0	84.0	45.0	no take
BH09-5	74.0	84.0	55.0	no take
			Average	**no take**

BH No.	Range depth (feet)		Pressure (psi)	k (m/sec)
BH09-6	16.0	27.0	10.0	no take
BH09-6	16.0	27.0	15.0	no take
BH09-6	16.0	27.0	20.0	no take
			Average	**no take**
BH09-6	27.0	38.0	15.0	no take
BH09-6	27.0	38.0	20.0	no take
BH09-6	27.0	38.0	25.0	no take
			Average	**no take**
BH09-6	38.0	49.0	20.0	no take
BH09-6	38.0	49.0	25.0	no take
BH09-6	38.0	49.0	30.0	no take
			Average	**no take**
BH09-6	49.0	60.0	25.0	no take
BH09-6	49.0	60.0	30.0	no take
BH09-6	49.0	60.0	40.0	no take
			Average	**no take**
BH09-6	60.0	100.0	45.0	no take
BH09-6	60.0	100.0	50.0	9.7E-09
BH09-6	60.0	100.0	60.0	1.6E-08
BH09-6	60.0	100.0	45.0	no take
			Average	**1.3E-08**
BH09-6	70.0	100.0	50.0	no take
BH09-6	70.0	100.0	55.0	no take
BH09-6	70.0	100.0	60.0	no take
			Average	**no take**

Notes:
Based on test ranges 70'-100' and 60'-100', range 60'-70' may have a k of 1.3x10-8 m/sec

Entered: PH
Checked: JPAO

ATTACHMENT TSD#1-B-4

Geophysical Logging Results (NRR Site)

TSD#1-B-4-1 – Stratigraphic Correlation Figures

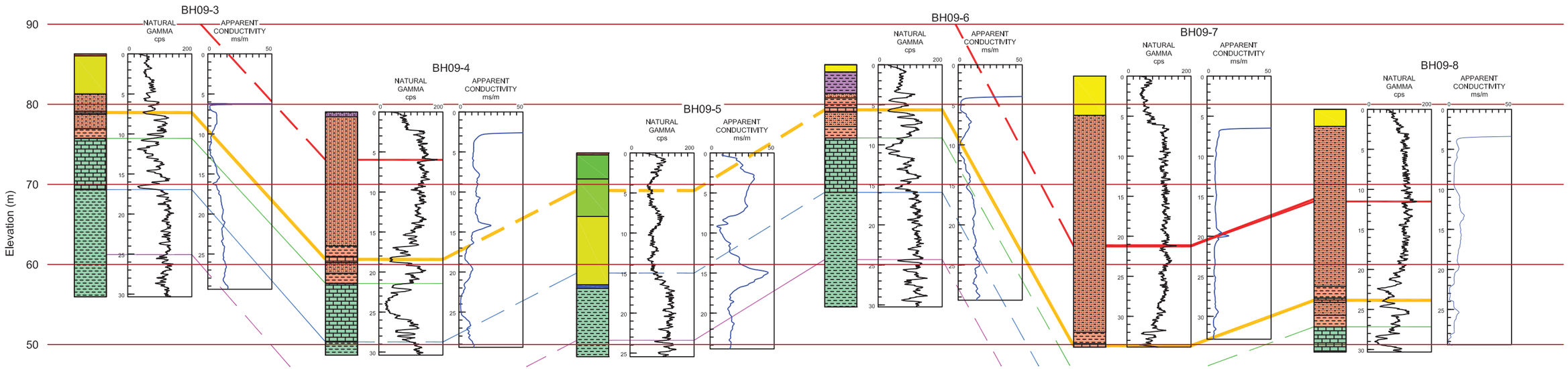
TSD#1-B-4-2 – Geophysical Logging Results for BH09-4

TSD#1-B-4-3 – Geophysical Logging Results for BH09-7

TSD#1-B-4-4 – Geophysical Logging Results for BH09-8

ATTACHMENT TSD#1-B-4-1

Stratigraphic Correlation Figures



CORRELATION LINES

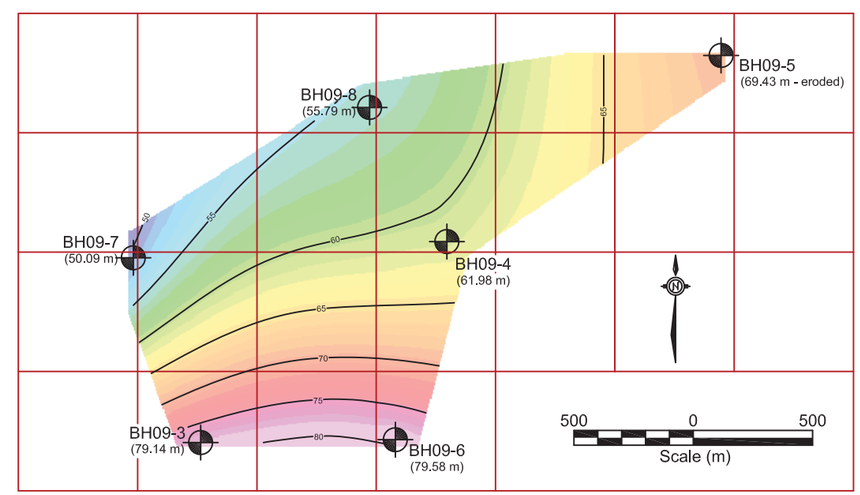
(dashed lines indicate extrapolated correlation)

- Gamma Spike in Queenston Fm.
- Marker Bed - Lower Queenston Fm.
- Queenston Fm./Carlsbad Fm. Contact
- Carbonate to Shale Transition (Carlsbad Fm.)
- Gamma Response (Carlsbad Fm.)

LOGGED STRATIGRAPHY

Overburden
- Topsoil
- Overburden / Sandy Silt
- Silty Clay / weathered crust
- Grey Silty Clay
- Sand / Gravel / Cobbles
- Glacial Till

Bedrock
- Weathered Shale
- Queenston Fm.
- Carlsbad Fm.



CONTOUR SURFACE - TOP OF MARKER - LOWER QUEENSTON Fm.

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PROJECT No.	12-1125-0045
REV.	
SCALE	AS SHOWN
DATE	May. 23, 2010
DESIGN	TF
CAD	TF/MMW
CHECK	MMW
REVIEW	PAS

TITLE

BOREHOLE GEOPHYSICS NATURAL GAMMA AND APPARENT CONDUCTIVITY RESPONSES

CAPTIAL REGION RESOURCE RECOVERY CENTRE
ENVIRONMENTAL ASSESSMENT

FIGURE
TSD#1-B-4-1-1

PLOT DATE: May 24, 2010
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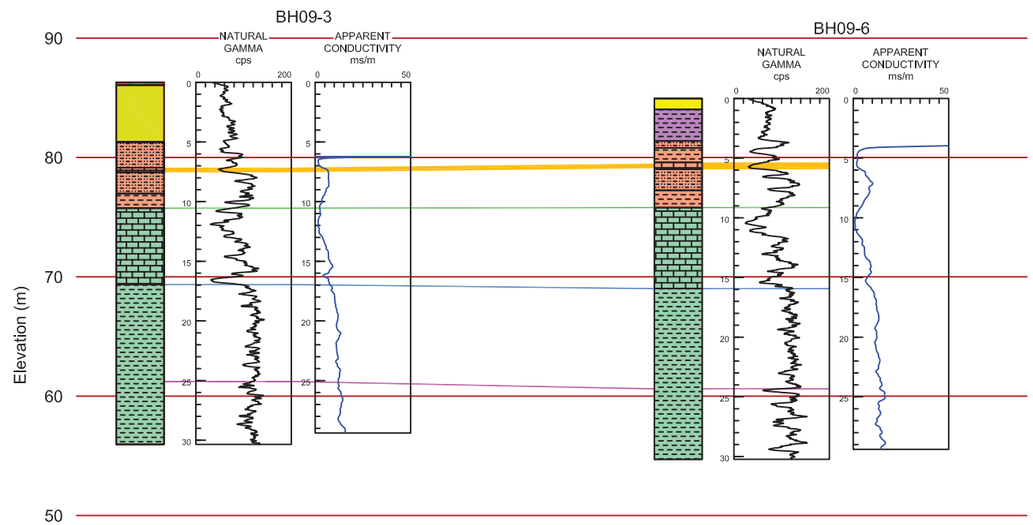


CORRELATION LINES

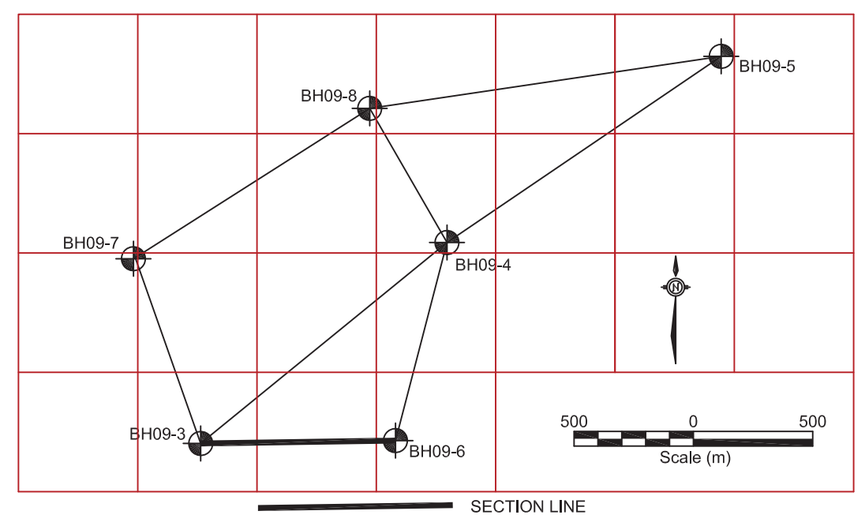
(dashed lines indicate extrapolated correlation)

- Gamma Spike in Queenston Fm.
- Marker Bed - Lower Queenston Fm.
- Queenston Fm./Carlsbad Fm. Contact
- Carbonate to Shale Transition (Carlsbad Fm.)
- Gamma Response (Carlsbad Fm.)

LOGGED STRATIGRAPHY

Overburden
- Topsoil
- Overburden / Sandy Silt
- Silty Clay / weathered crust
- Grey Silty Clay
- Sand / Gravel / Cobbles
- Glacial Till

Bedrock
- Weathered Shale
- Queenston Fm.
- Carlsbad Fm.



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FILE No. 09-1125-1008 nG-aC Logs.dwg
PROJECT No. 12-1125-0045 REV.

TITLE

BOREHOLE SECTION BH09-3 TO BH09-6

CAPTIAL REGION RESOURCE RECOVERY CENTRE
ENVIRONMENTAL ASSESSMENT

FIGURE
TSD#1-B-4-1-2

PLOT DATE: May 24, 2010
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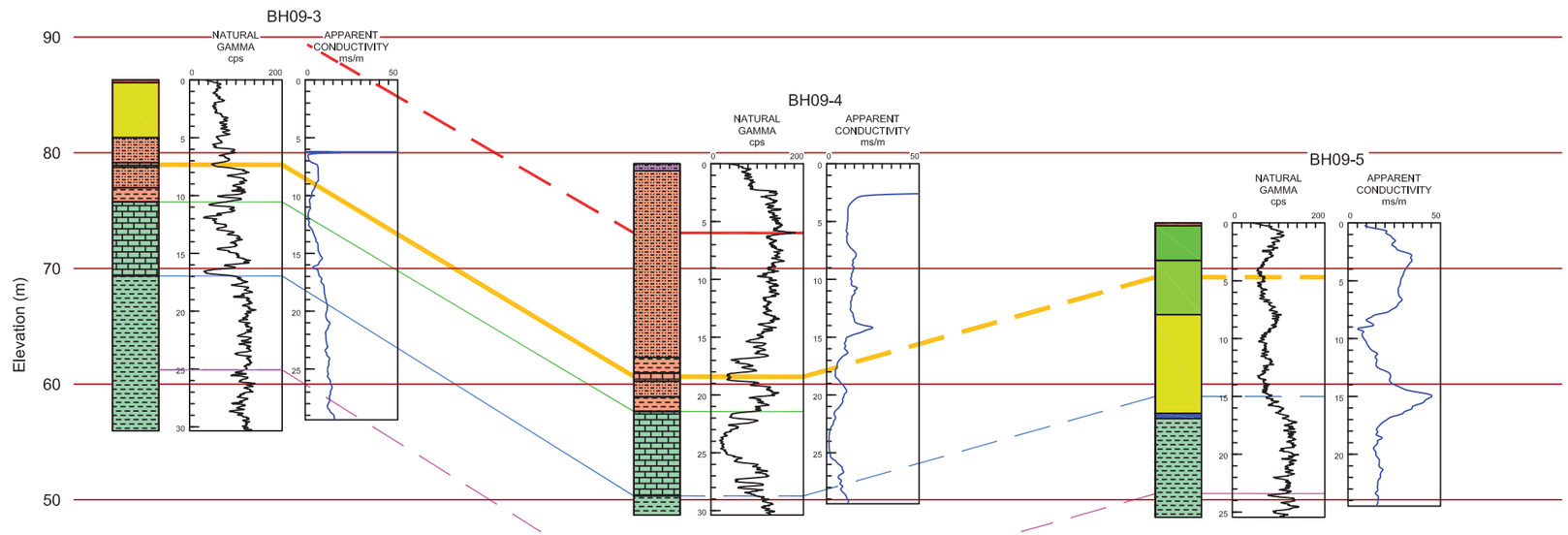


CORRELATION LINES

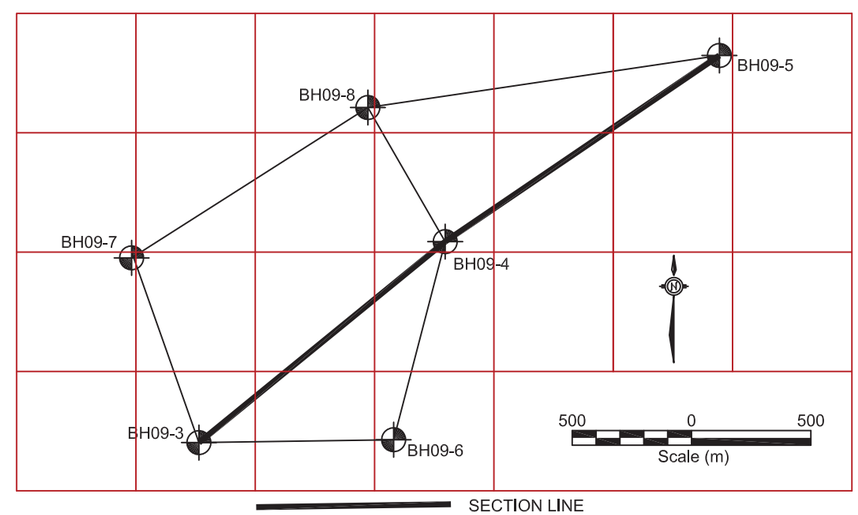
(dashed lines indicate extrapolated correlation)

- Gamma Spike in Queenston Fm.
- Marker Bed - Lower Queenston Fm.
- Queenston Fm./Carlsbad Fm. Contact
- Carbonate to Shale Transition (Carlsbad Fm.)
- Gamma Response (Carlsbad Fm.)

LOGGED STRATIGRAPHY

Overburden
- Topsoil
- Overburden / Sandy Silt
- Silty Clay / weathered crust
- Grey Silty Clay
- Sand / Gravel / Cobbles
- Glacial Till

Bedrock
- Weathered Shale
- Queenston Fm.
- Carlsbad Fm.



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SCALE	AS SHOWN
DATE	May. 23, 2010
DESIGN	TF
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REVIEW	PAS

FILE No. 09-1125-1008 nG-aC Logs.dwg
PROJECT No. 12-1125-0045 REV.

TITLE

BOREHOLE SECTION BH09-3 TO BH09-4 TO BH09-5

CAPTIAL REGION RESOURCE RECOVERY CENTRE
ENVIRONMENTAL ASSESSMENT

FIGURE
TSD#1-B-4-1-3

PLOT DATE: May 24, 2010
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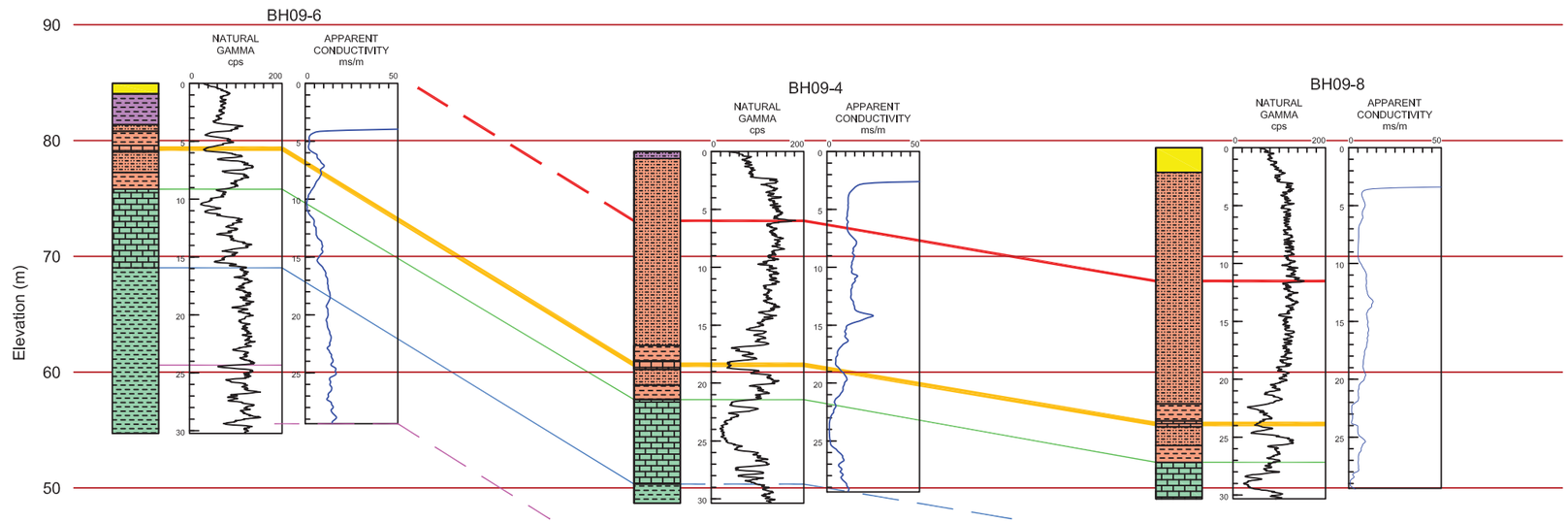


CORRELATION LINES

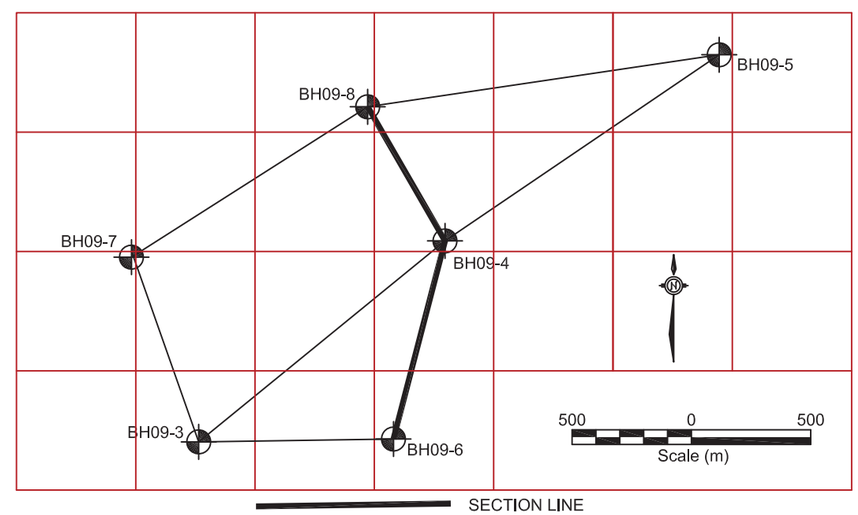
(dashed lines indicate extrapolated correlation)

- Gamma Spike in Queenston Fm.
- Marker Bed - Lower Queenston Fm.
- Queenston Fm./Carlsbad Fm. Contact
- Carbonate to Shale Transition (Carlsbad Fm.)
- Gamma Response (Carlsbad Fm.)

LOGGED STRATIGRAPHY

Overburden
- Topsoil
- Overburden / Sandy Silt
- Silty Clay / weathered crust
- Grey Silty Clay
- Sand / Gravel / Cobbles
- Glacial Till

Bedrock
- Weathered Shale
- Queenston Fm.
- Carlsbad Fm.



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SCALE	AS SHOWN
DATE	May. 23, 2010
DESIGN	TF
CAD	TF/MMW
CHECK	MMW
REVIEW	PAS

FILE No. 09-1125-1008 nG-aC Logs.dwg
PROJECT No. 12-1125-0045 REV.

TITLE

BOREHOLE SECTION BH09-6 TO BH09-4 TO BH09-8

CAPTIAL REGION RESOURCE RECOVERY CENTRE
ENVIRONMENTAL ASSESSMENT

FIGURE
TSD#1-B-4-1-4

PLOT DATE: May 24, 2010
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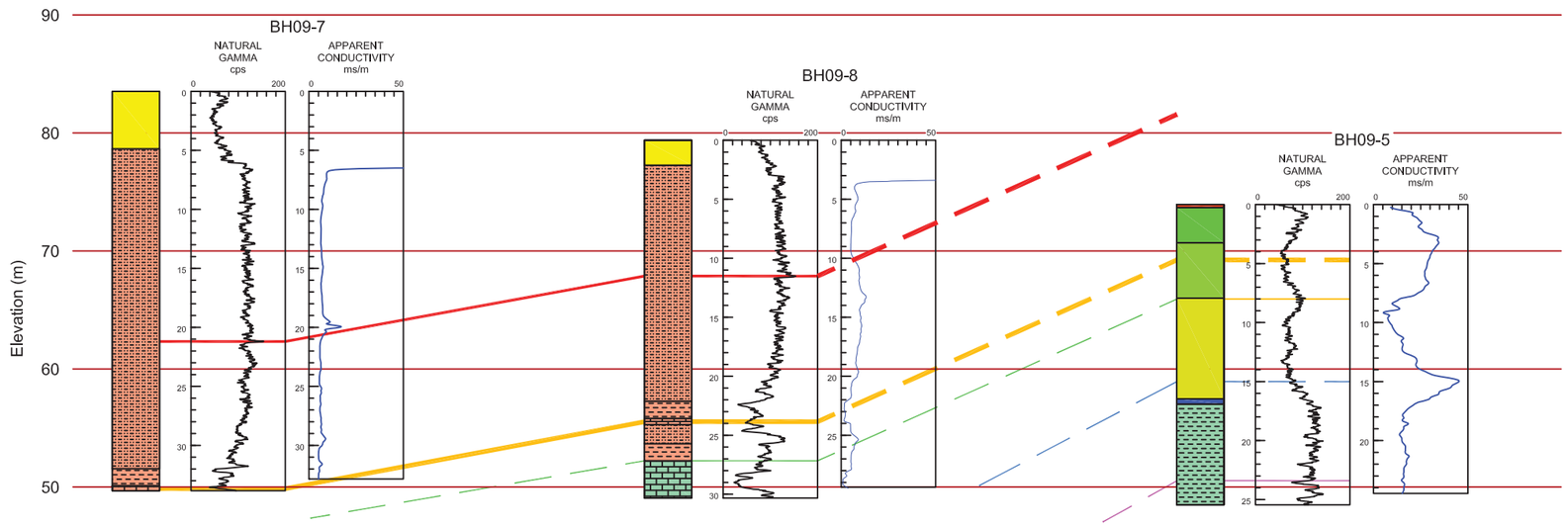


CORRELATION LINES

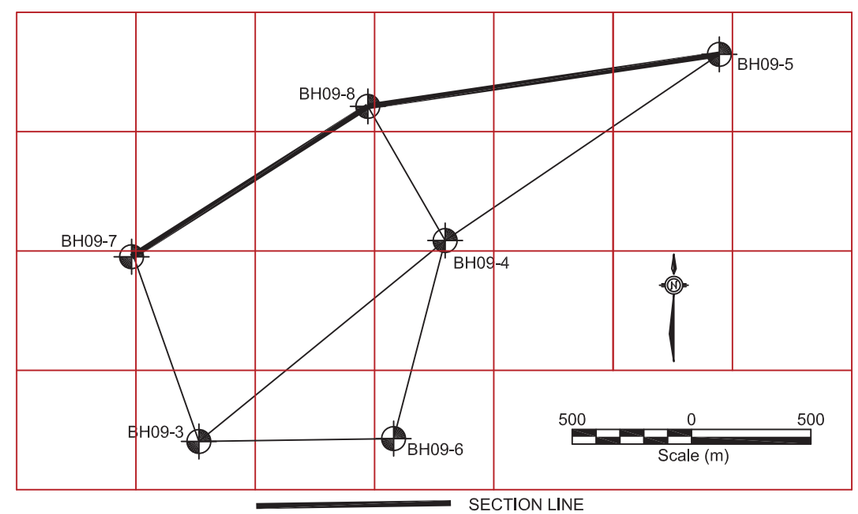
(dashed lines indicate extrapolated correlation)

- Gamma Spike in Queenston Fm.
- Marker Bed - Lower Queenston Fm.
- Queenston Fm./Carlsbad Fm. Contact
- Carbonate to Shale Transition (Carlsbad Fm.)
- Gamma Response (Carlsbad Fm.)

LOGGED STRATIGRAPHY

Overburden
- Topsoil
- Overburden / Sandy Silt
- Silty Clay / weathered crust
- Grey Silty Clay
- Sand / Gravel / Cobbles
- Glacial Till

Bedrock
- Weathered Shale
- Queenston Fm.
- Carlsbad Fm.



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PROJECT No. 12-1125-0045	REV.	DATE	May. 23, 2010
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		CAD	TF/MMW
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TITLE

BOREHOLE SECTION BH09-7 TO BH09-8 TO BH09-5

CAPTIAL REGION RESOURCE RECOVERY CENTRE
ENVIRONMENTAL ASSESSMENT

FIGURE
TSD#1-B-4-1-5

PLOT DATE: May 24, 2010
FILENAME: C:\Documents and Settings\mmonier-williams\My Documents\09-Projects\09-1125-1008(3000) Green Project - Geophysics - Ottawa\09-1125-1008 nG-aC Logs.dwg

ATTACHMENT TSD#1-B-4-2

Geophysical Logging Results for BH09-4

Static Heat Pulse Flow Meter Results - BH09-4

Borehole BH09-4
Dynamic Heat Pulse Flow Meter Testing
Pipe Stick Up = 0.92 (m)
Static Water Level = 0.92 (m - btop)

Depth (m)	Acq. Time Day/Time	Pick Time (sec)	Flow USGal/min.	Comment
1.11	3/12/2009 16:43	4.00	-0.12	possible good test
	3/12/2009 16:46	-	no flow	non-stable curve
2.10	3/12/2009 16:50	-	no flow	non-stable curve
	3/12/2009 16:51	-	no flow	non-stable curve
	3/12/2009 16:53	-	no flow	non-stable curve
4.12	3/12/2009 16:56	14.38	-0.03	possible good test
	3/12/2009 16:57	-	no flow	non-stable curve
	3/12/2009 16:59	-	no flow	non-stable curve
	3/12/2009 17:00	-	no flow	non-stable curve
6.61	3/12/2009 17:02	-	no flow	non-stable curve
	3/12/2009 17:03	-	no flow	non-stable curve
9.10	3/12/2009 17:05	-	no flow	non-stable curve
	3/12/2009 17:06	-	no flow	non-stable curve
14.10	3/12/2009 17:09	-	no flow	non-stable curve
	3/12/2009 17:11	-	no flow	non-stable curve
19.10	3/12/2009 17:12	-	no flow	non-stable curve
	3/12/2009 17:13	-	no flow	non-stable curve
24.12	3/12/2009 17:16	-	no flow	non-stable curve
	3/12/2009 17:17	-	no flow	non-stable curve
29.15	3/12/2009 17:20	-	no flow	non-stable curve
	3/12/2009 17:21	-	no flow	non-stable curve

Dynamic Heat Pulse Flow Meter Results - BH09-4

Borehole BH09-4
Dynamic Heat Pulse Flow Meter Testing
Pipe Stick Up = 0.92 (m)
Static Water Level = 0.92 (m - btop)

					Pump Rate				
Depth (m)	Acq. Time Day/Time	Pick Time (sec)	Flow (USGal/min)	Average (USGal/min) or Comment	Volume (USGal)	Time (min)	Rate USGal/min	Water Level (m - btop)	Draw Down (m)
2.09	3/12/2009 18:11	0.74	0.71						
	3/12/2009 18:13	0.69	1.13	0.89	4.50	3.08	1.46	1.72	0.80
	3/12/2009 18:15	0.71	0.85						
2.58	3/12/2009 18:05	1.10	0.37						
	3/12/2009 18:07	1.20	0.32						
	3/12/2009 18:08	1.05	0.40	0.37	4.50	3.08	1.46	1.72	0.80
	3/12/2009 18:09	1.05	0.40						
3.06	3/12/2009 17:58	2.50	0.08						
	3/12/2009 17:59	2.60	0.08	0.07	4.50	3.08	1.46	1.72	0.80
	3/12/2009 18:01	3.00	0.06						
	3/12/2009 18:02	2.90	0.07						
4.08	3/12/2009 17:54	-	no flow	non-stable curve					
	3/12/2009 17:55	-	no flow	non-stable curve					
	3/12/2009 17:56	-	no flow	non-stable curve					
6.59	3/12/2009 17:52	-	no flow	non-stable curve					
	3/12/2009 17:53	-	no flow	non-stable curve					
9.08	3/12/2009 17:49	-	no flow	non-stable curve					
	3/12/2009 17:50	-	no flow	non-stable curve					
14.08	3/12/2009 17:47	-	no flow	non-stable curve					
	3/12/2009 17:48	-	no flow	non-stable curve					
19.08	3/12/2009 17:41	-	no flow	non-stable curve					
	3/12/2009 17:42	-	no flow	non-stable curve					
	3/12/2009 17:44	-	no flow	non-stable curve	4.50	3.08	1.46	1.73	0.81
24.09	3/12/2009 17:37	-	no flow	non-stable curve					
	3/12/2009 17:38	-	no flow	non-stable curve					
24.58	3/12/2009 17:35	-	no flow	non-stable curve					
26.58	3/12/2009 17:33	-	no flow	non-stable curve					
	3/12/2009 17:34	-	no flow	non-stable curve	4.50	2.98	1.51	1.72	0.80
29.09	3/12/2009 17:26	-	no flow	non-stable curve					
	3/12/2009 17:28	-	no flow	non-stable curve	4.50	3.08	1.46	1.72	0.80

GEOPHYSICAL RECORD OF BOREHOLE: BH09-4

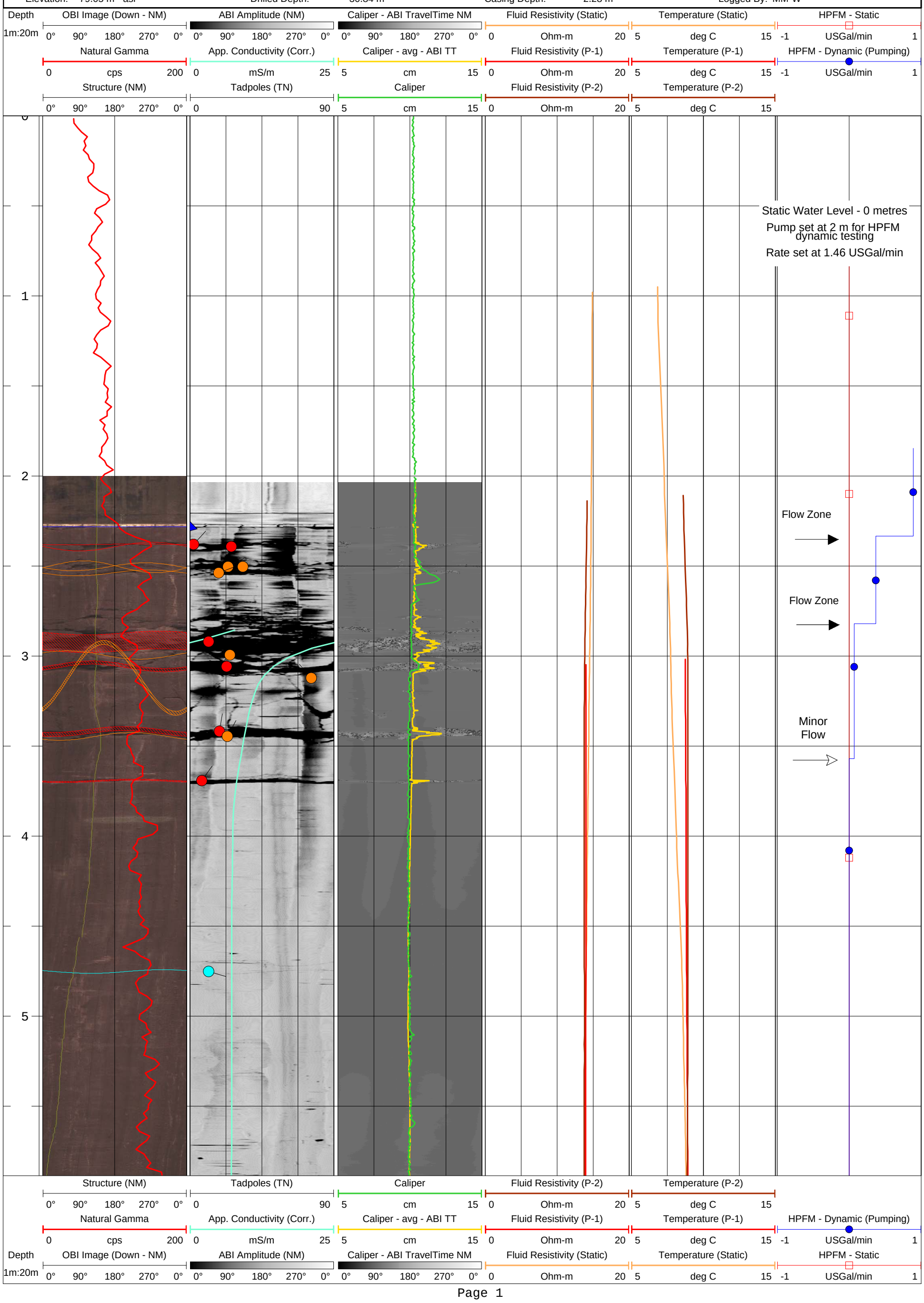
Borehole Geophysics

Confidential

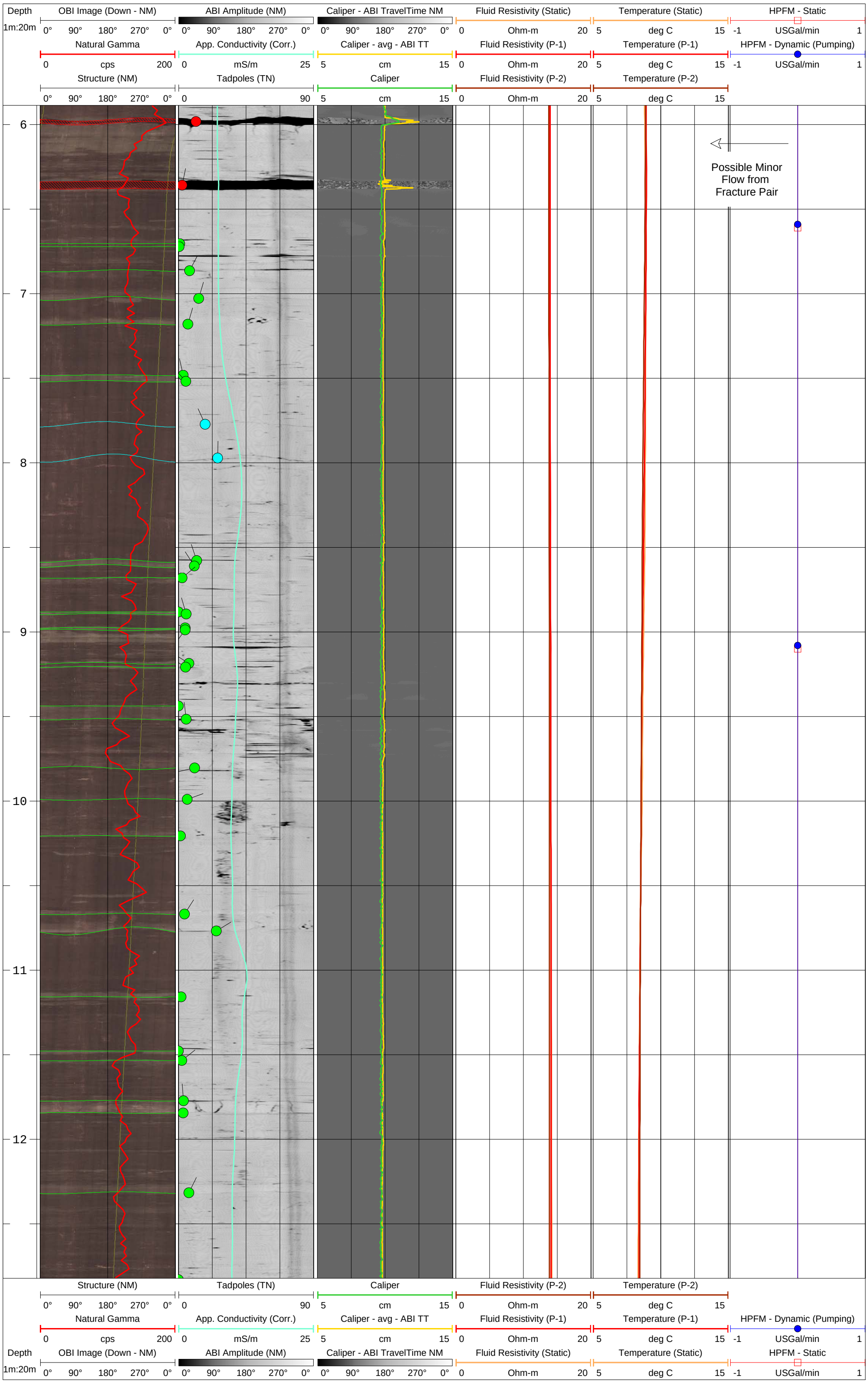
Project Number: 09-1125-1008(3000)

Date: April, 2010

Datum:	MTM NAD83						
Easting:	393,796 E	Depth Reference:	'0' at Ground Surface	Borehole Diameter:	HQ - 96 mm	Location:	North Russel, Ontario
Northing:	5,018,544 N	Drilling Method:	HQ Core	Casing Diameter:	HW - 101 mm	Log Date:	Nov. 30 / Dec. 3, 2009
Elevation:	79.05 m - asl	Drilled Depth:	30.84 m	Casing Depth:	2.28 m	Logged By:	MM-W



BH09-4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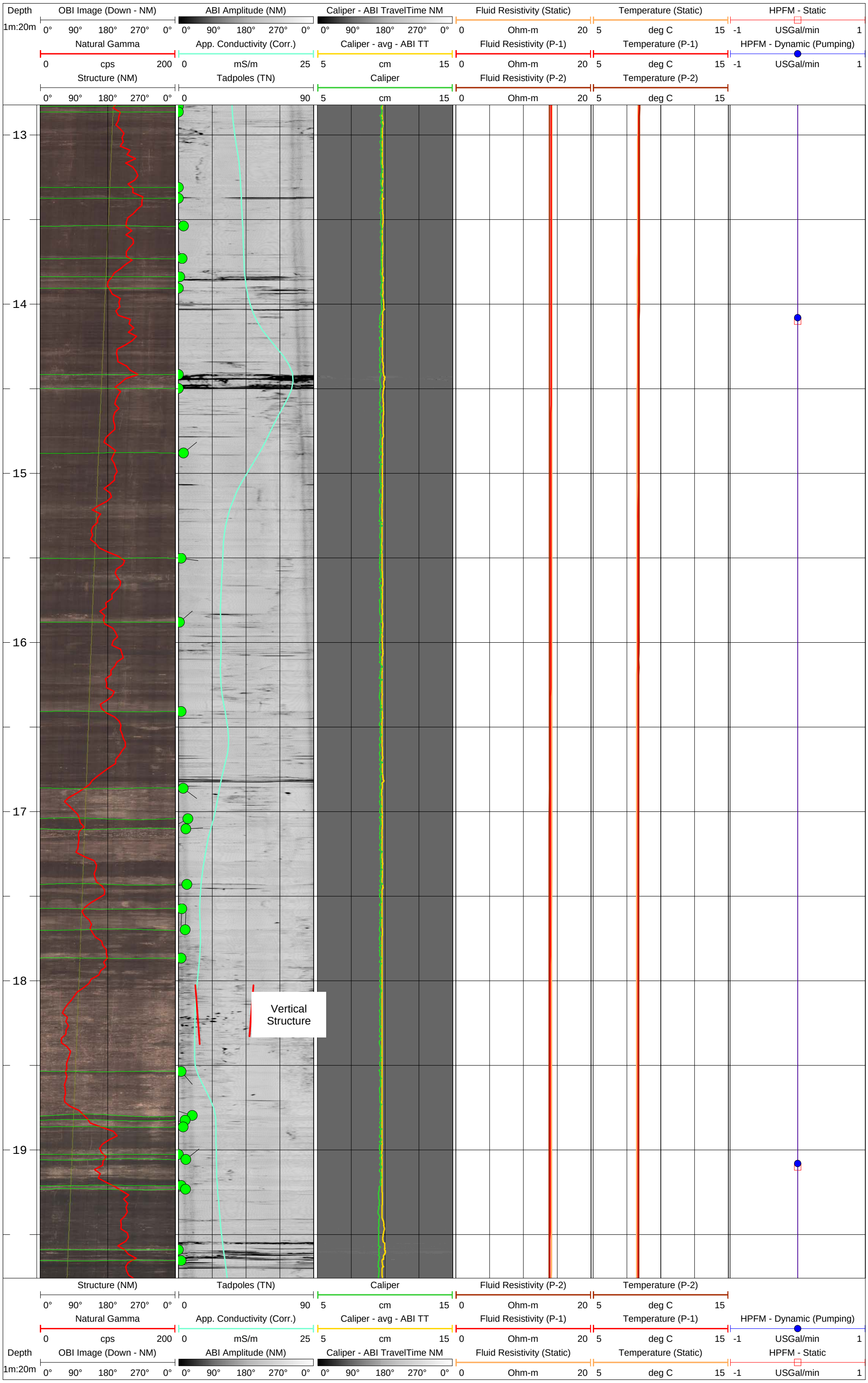
Caliper - ABI TravelTime NM
0° 90° 180° 270° 0°
Fluid Resistivity (Static)
0 Ohm-m 20
Temperature (Static)
5 deg C 15
HPFM - Static
-1 USGal/min 1
Natural Gamma
0 cps 200
App. Conductivity (Corr.)
0 mS/m 25
Caliper - avg - ABI TT
5 cm 15
Fluid Resistivity (P-1)
0 Ohm-m 20
Temperature (P-1)
5 deg C 15
HPFM - Dynamic (Pumping)
-1 USGal/min 1
Structure (NM)
0° 90° 180° 270° 0°
Tadpoles (TN)
0 90
Caliper
5 cm 15
Fluid Resistivity (P-2)
0 Ohm-m 20
Temperature (P-2)
5 deg C 15
6
7
8
9
10
11
12
Possible Minor
Flow from
Fracture Pair

BH09-4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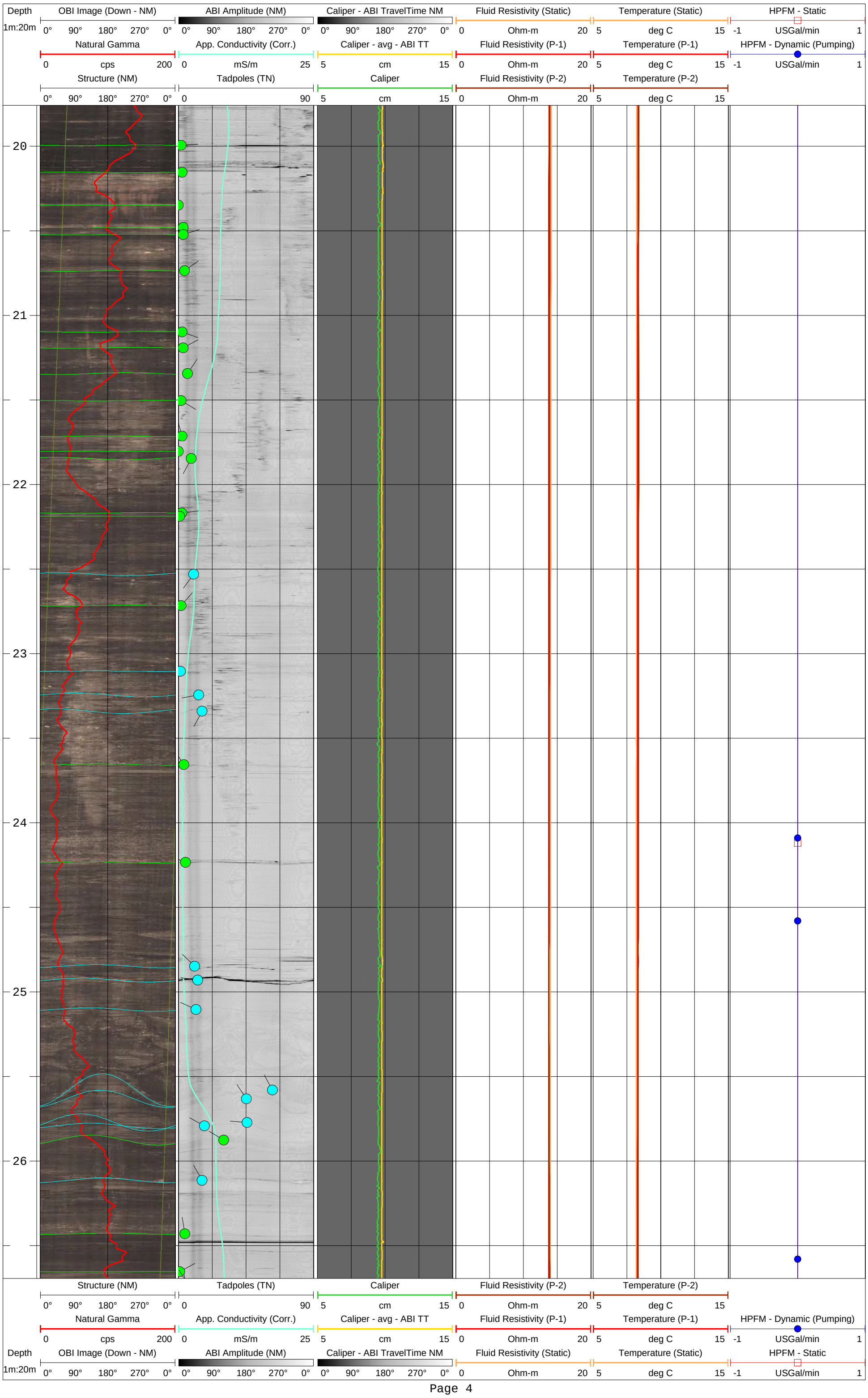
Caliper - ABI TravelTime NM
0° 90° 180° 270° 0°
Fluid Resistivity (Static)
0 Ohm-m 20
Temperature (Static)
5 deg C 15
HPFM - Static
-1 USGal/min 1
Natural Gamma
0 cps 200
App. Conductivity (Corr.)
0 mS/m 25
Caliper - avg - ABI TT
5 cm 15
Fluid Resistivity (P-1)
0 Ohm-m 20
Temperature (P-1)
5 deg C 15
HPFM - Dynamic (Pumping)
-1 USGal/min 1
Structure (NM)
0° 90° 180° 270° 0°
Tadpoles (TN)
0 90
Caliper
5 cm 15
Fluid Resistivity (P-2)
0 Ohm-m 20
Temperature (P-2)
5 deg C 15
13
14
15
16
17
18
19
Vertical Structure

BH09-4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ABI Amplitude (NM)
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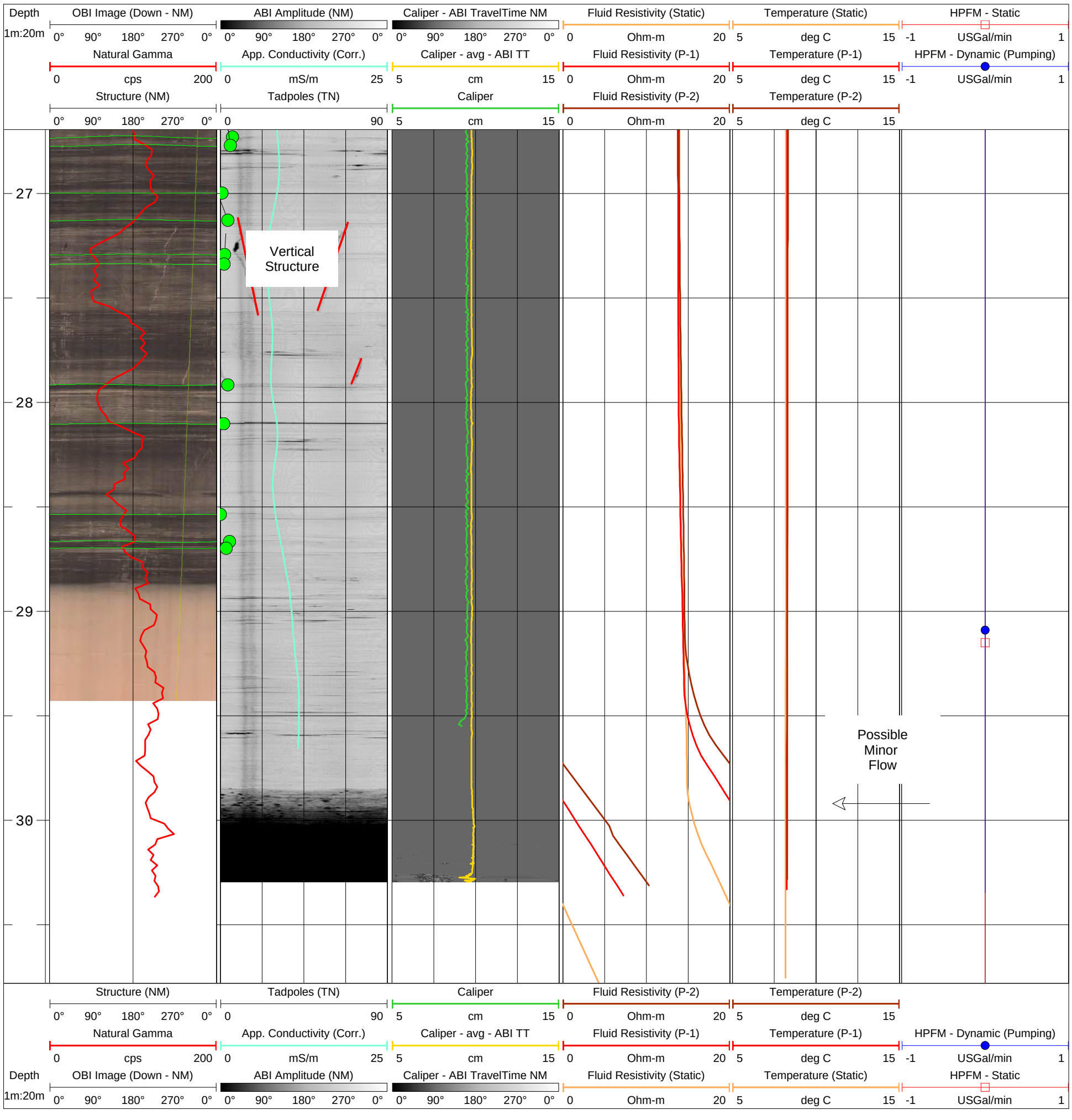
Caliper - ABI TravelTime NM
0° 90° 180° 270° 0°
Fluid Resistivity (Static)
0 Ohm-m 20
Temperature (Static)
5 deg C 15
HPFM - Static
-1 USGal/min 1
Natural Gamma
0 cps 200
App. Conductivity (Corr.)
0 mS/m 25
Caliper - avg - ABI TT
5 cm 15
Fluid Resistivity (P-1)
0 Ohm-m 20
Temperature (P-1)
5 deg C 15
HPFM - Dynamic (Pumping)
-1 USGal/min 1
Structure (NM)
0° 90° 180° 270° 0°
Tadpoles (TN)
0 90
Caliper
5 cm 15
Fluid Resistivity (P-2)
0 Ohm-m 20
Temperature (P-2)
5 deg C 15
20
21
22
23
24
25
26

BH09-4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ABI Amplitude (NM)
Caliper - ABI TravelTime NM
Fluid Resistivity (Static)
Temperature (Static)
HPFM - Static
Natural Gamma
App. Conductivity (Corr.)
Caliper - avg - ABI TT
Fluid Resistivity (P-1)
Temperature (P-1)
HPFM - Dynamic (Pumping)
Structure (NM)
Tadpoles (TN)
Caliper
Fluid Resistivity (P-2)
Temperature (P-2)
0° 90° 180° 270° 0°
0 cps 200
0 mS/m 25
5 cm 15
0 Ohm-m 20
5 deg C 15
-1 USGal/min 1
0 90
27
28
29
30
Vertical Structure
Possible Minor Flow

GEOPHYSICAL RECORD OF BOREHOLE: BH09-4

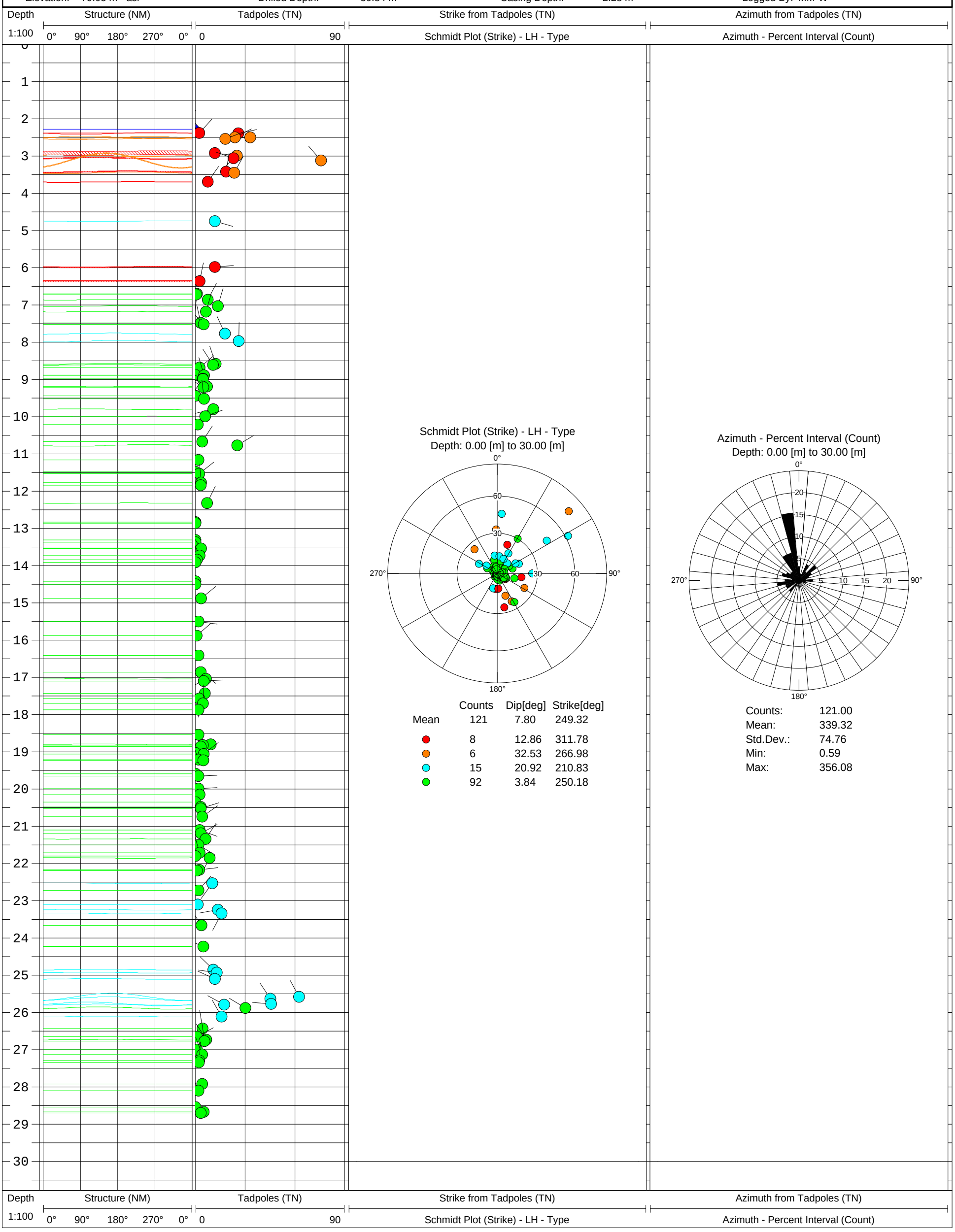
Borehole Geophysics

Confidential

Project Number: 09-1125-1008(3000)

Date: April, 2010

Datum:	MTM NAD83						
Easting:	393,796 E	Depth Reference:	'0' at Ground Surface	Borehole Diameter:	HQ - 96 mm	Location:	North Russel, Ontario
Northing:	5,018,544 N	Drilling Method:	HQ Core	Casing Diameter:	HW - 101 mm	Log Date:	Nov. 30 / Dec. 3, 2009
Elevation:	79.05 m - asl	Drilled Depth:	30.84 m	Casing Depth:	2.28 m	Logged By:	MM-W



ATTACHMENT TSD#1-B-4-3

Geophysical Logging Results for BH09-7

Dynamic Heat Pulse Flow Meter Results - BH09-7

Borehole BH09-7
Dynamic Heat Pulse Flow Meter Testing
Pipe Stick Up = 0.87 (m)
Static Water Level = 2.13 (m - btop)

					Pump Rate				
Depth (m)	Acq. Time Day/Time	Pick Time (sec)	Flow (USGal/min)	Average (USGal/min) or Comment	Volume (USGal)	Time (min)	Rate USGal/min	Water Level (m - btop)	Draw Down (m)
5.48	4/12/2009 22:56	1.60	0.185						
	4/12/2009 22:57	1.55	0.197					3.74	1.61
	4/12/2009 22:58	1.52	0.203						
	4/12/2009 22:58	1.52	0.203						
	4/12/2009 22:59			0.20					
	4/12/2009 23:00	1.55	0.197					3.80	1.67
	4/12/2009 23:01	1.50	0.209						
	4/12/2009 23:02	1.50	0.209						
	4/12/2009 23:04	1.55	0.197						
	4/12/2009 23:05	1.55	0.197		4.5	8.5	0.53	3.85	1.72
7.48	4/12/2009 22:47	2.70	0.074						
	4/12/2009 22:48	2.80	0.069						
	4/12/2009 22:50	3.25	0.054	0.06		Note - Pump Stopped			
	4/12/2009 22:52	3.30	0.053						
	4/12/2009 22:53	2.90	0.065					3.50	1.37
	4/12/2009 22:54	2.70	0.074						
9.91	4/12/2009 22:45	1.90	0.137						
	4/12/2009 22:46	1.85	0.143	0.14					
12.49	4/12/2009 22:44	1.80	0.150						
	4/12/2009 22:44	1.80	0.150	0.15					
14.98	4/12/2009 22:42	1.70	0.167						
	4/12/2009 22:43	1.70	0.167	0.17					
17.48	4/12/2009 22:38	1.83	0.146					3.87	1.74
	4/12/2009 22:39	1.80	0.150	0.15					
	4/12/2009 22:40	1.83	0.146						
19.99	4/12/2009 22:36	1.80	0.150					3.87	1.74
	4/12/2009 22:36	1.80	0.150	0.15					
	4/12/2009 22:37	1.80	0.150						
22.46	4/12/2009 22:33	7.70	0.014						
	4/12/2009 22:33	7.43	0.015	0.01					
	4/12/2009 22:34	7.35	0.015						
24.99	4/12/2009 22:11	12.31	0.007						
	4/12/2009 22:13	12.30	0.007						
	4/12/2009 22:15	13.20	0.006	0.01					
	4/12/2009 22:17	13.57	0.006					3.73	1.6
27.49	4/12/2009 22:19	10.44	0.009						
	4/12/2009 22:20	10.33	0.009						
	4/12/2009 22:21	9.55	0.010	0.01					
	4/12/2009 22:22	9.60	0.010						
27.89	4/12/2009 22:30	10.09	0.009						
	4/12/2009 22:30	11.65	0.008	0.01					
	4/12/2009 22:31	12.33	0.007						
28.99	4/12/2009 22:27	19.15	0.004	no flow				3.86	1.73
	4/12/2009 22:28	0.40	-2.237	no flow					
29.99	4/12/2009 22:24	19.10	0.004	no flow	4.5	9	0.50	3.83	1.7
	4/12/2009 22:25	0.40	-2.237	no flow					

Static Heat Pulse Flow Meter Results - BH09-7

Borehole BH09-7
Static Heat Pulse Flow Meter Testing
Pipe Stick Up = 0.87 (m)
Static Water Level = 2.13 (m - btop)

Depth (m)	Acq. Time Day/Time	Pick Time (sec)	Flow USGal/min.	Average (USGal/min) or Comment
5.03	4/12/2009 21:35	2.15	0.11	
	4/12/2009 21:35	2.17	0.11	0.11
7.51	4/12/2009 21:38	3.64	0.04	
	4/12/2009 21:39	3.82	0.04	0.04
10.04	4/12/2009 21:41	3.25	0.05	
	4/12/2009 21:43	3.40	0.05	0.05
12.51	4/12/2009 21:45	3.80	0.04	
	4/12/2009 21:46	3.85	0.04	0.04
15.01	4/12/2009 21:47	3.75	0.04	
	4/12/2009 21:48	3.90	0.04	0.04
17.57	4/12/2009 21:50	4.00	0.04	
	4/12/2009 21:50	4.00	0.04	0.04
20.04	4/12/2009 21:52	4.00	0.04	
	4/12/2009 21:53	3.00	0.06	
	4/12/2009 21:54	4.35	0.03	
	4/12/2009 21:55	4.50	0.03	0.04
22.51	4/12/2009 21:56	-	no flow	non-stable curve
	4/12/2009 21:58	-	no flow	non-stable curve
25.02	4/12/2009 22:00	-	no flow	non-stable curve
	4/12/2009 22:01	-	no flow	non-stable curve
	4/12/2009 22:03	-	no flow	non-stable curve

GEOPHYSICAL RECORD OF BOREHOLE: BH09-7

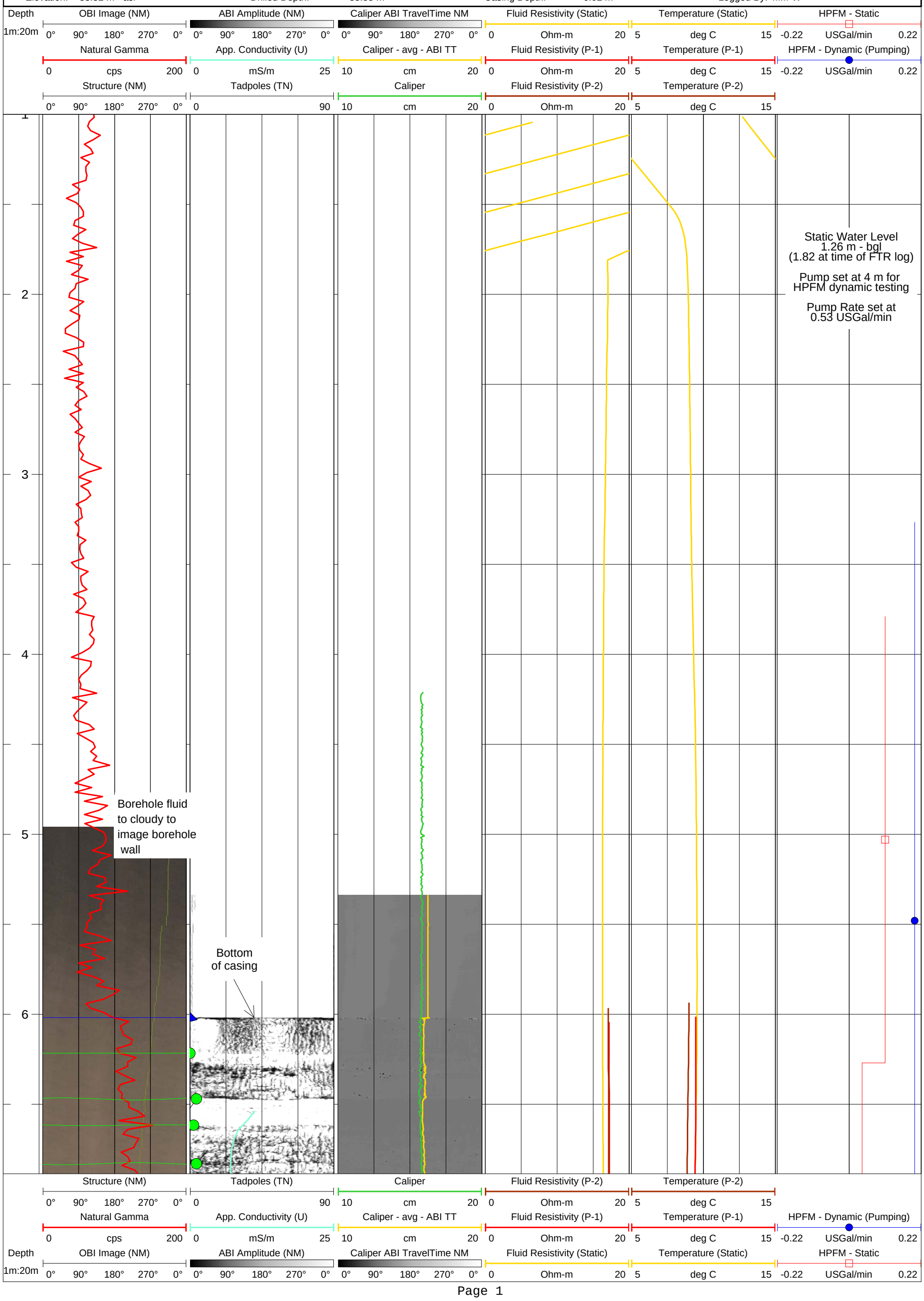
Borehole Geophysics

Confidential

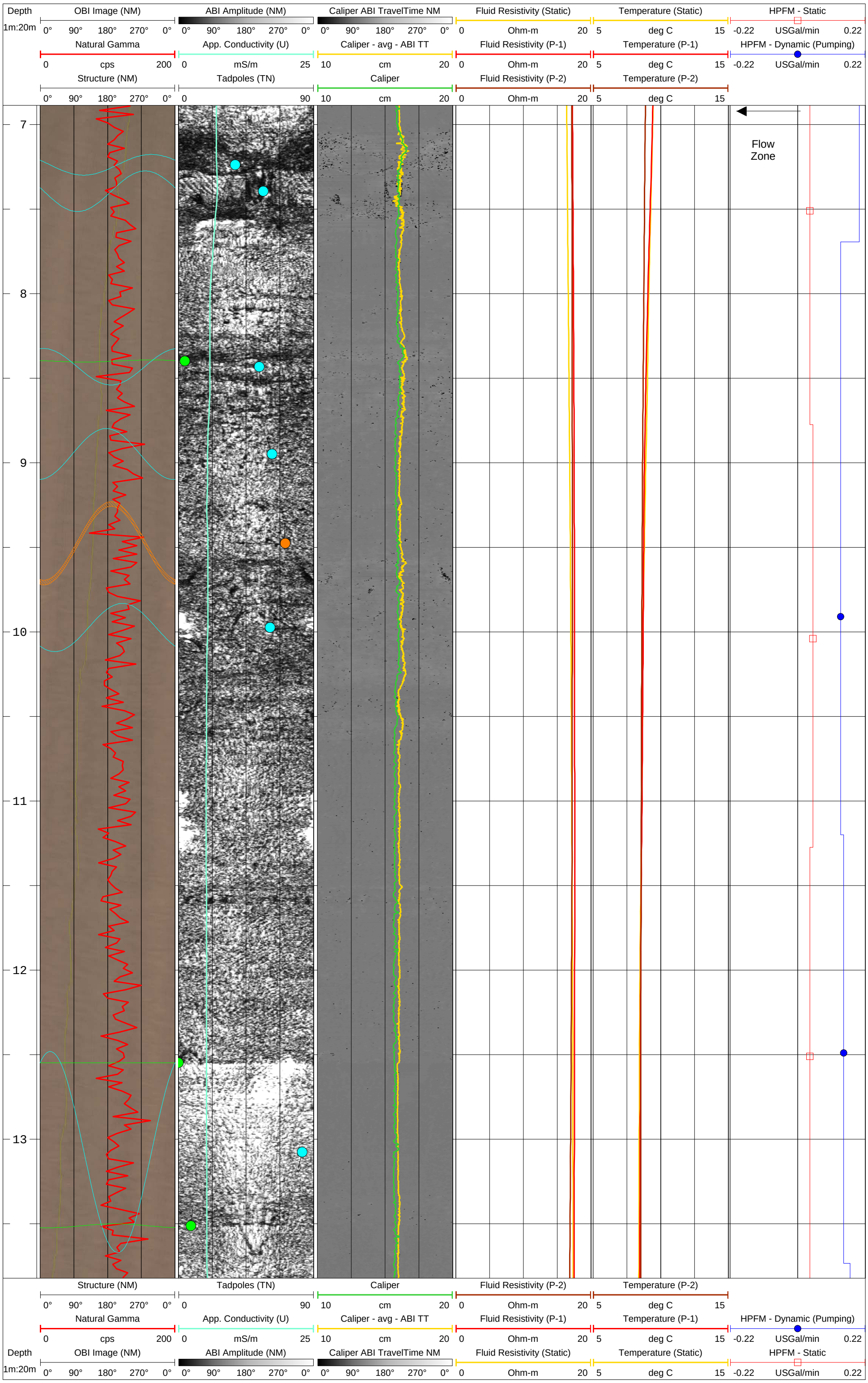
Project Number: 09-1125-1008(3000)

Date: April, 2010

Datum:	MTM - NAD83						
Easting:	392,482 E	Depth Reference:	'0' at Ground Surface	Borehole Diameter:	6" (152.4 mm)	Location:	North Russel, Ontario
Northing:	5,018,476 N	Drilling Method:	Air Rotary	Casing Diameter:	158 mm	Log Date:	Dec. 4, 2009
Elevation:	83.52 m - asl	Drilled Depth:	33.55 m	Casing Depth:	6.02 m	Logged By:	MM-W



BH09-7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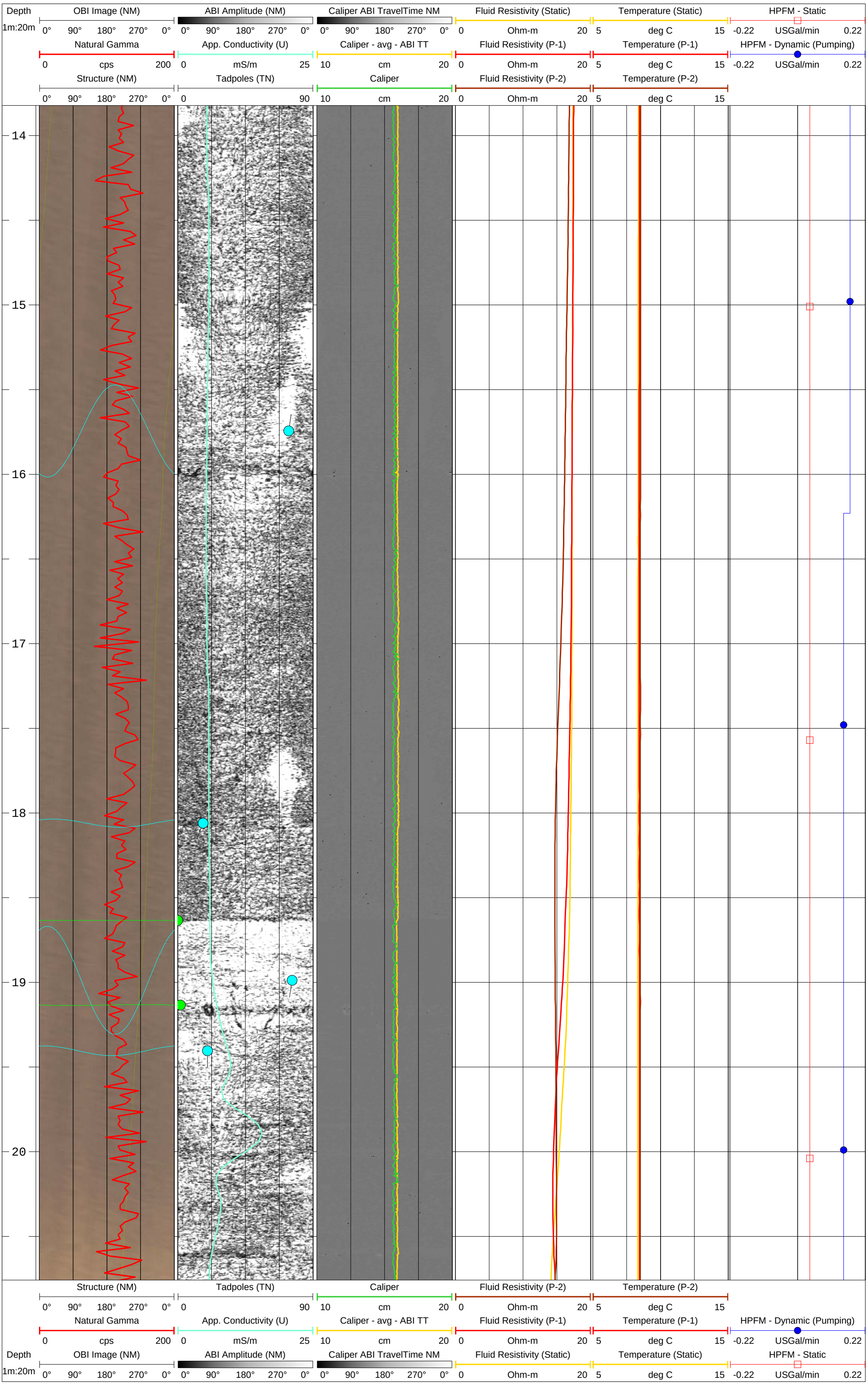
ABI Amplitude (NM)
0° 90° 180° 270° 0°
Caliper ABI TravelTime NM
0° 90° 180° 270° 0°
Fluid Resistivity (Static)
0 Ohm-m 20
Temperature (Static)
5 deg C 15
HPFM - Static
-0.22 USGal/min 0.22
Natural Gamma
0 cps 200
App. Conductivity (U)
0 mS/m 25
Caliper - avg - ABI TT
10 cm 20
Fluid Resistivity (P-1)
0 Ohm-m 20
Temperature (P-1)
5 deg C 15
HPFM - Dynamic (Pumping)
-0.22 USGal/min 0.22
Structure (NM)
0° 90° 180° 270° 0°
Tadpoles (TN)
0 90
Caliper
10 cm 20
Fluid Resistivity (P-2)
0 Ohm-m 20
Temperature (P-2)
5 deg C 15
7
8
9
10
11
12
13
Flow Zone

BH09-7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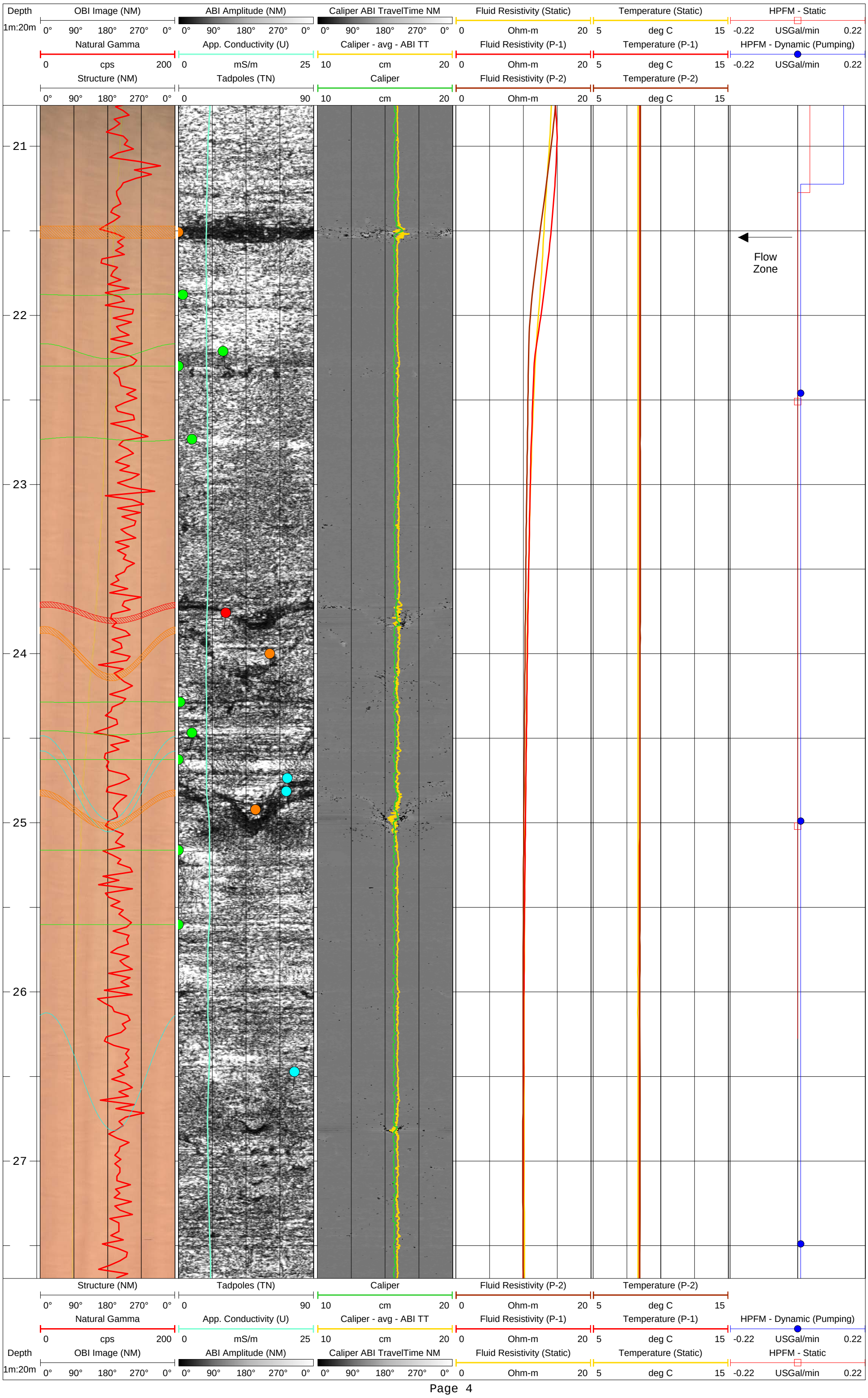
ABI Amplitude (NM)
0° 90° 180° 270° 0°
Caliper ABI TravelTime NM
0° 90° 180° 270° 0°
Fluid Resistivity (Static)
0 Ohm-m 20
Temperature (Static)
5 deg C 15
HPFM - Static
-0.22 USGal/min 0.22
Natural Gamma
0 cps 200
App. Conductivity (U)
0 mS/m 25
Caliper - avg - ABI TT
10 cm 20
Fluid Resistivity (P-1)
0 Ohm-m 20
Temperature (P-1)
5 deg C 15
HPFM - Dynamic (Pumping)
-0.22 USGal/min 0.22
Structure (NM)
0° 90° 180° 270° 0°
Tadpoles (TN)
0 90
Caliper
10 cm 20
Fluid Resistivity (P-2)
0 Ohm-m 20
Temperature (P-2)
5 deg C 15
14
15
16
17
18
19
20

BH09-7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Caliper ABI TravelTime NM
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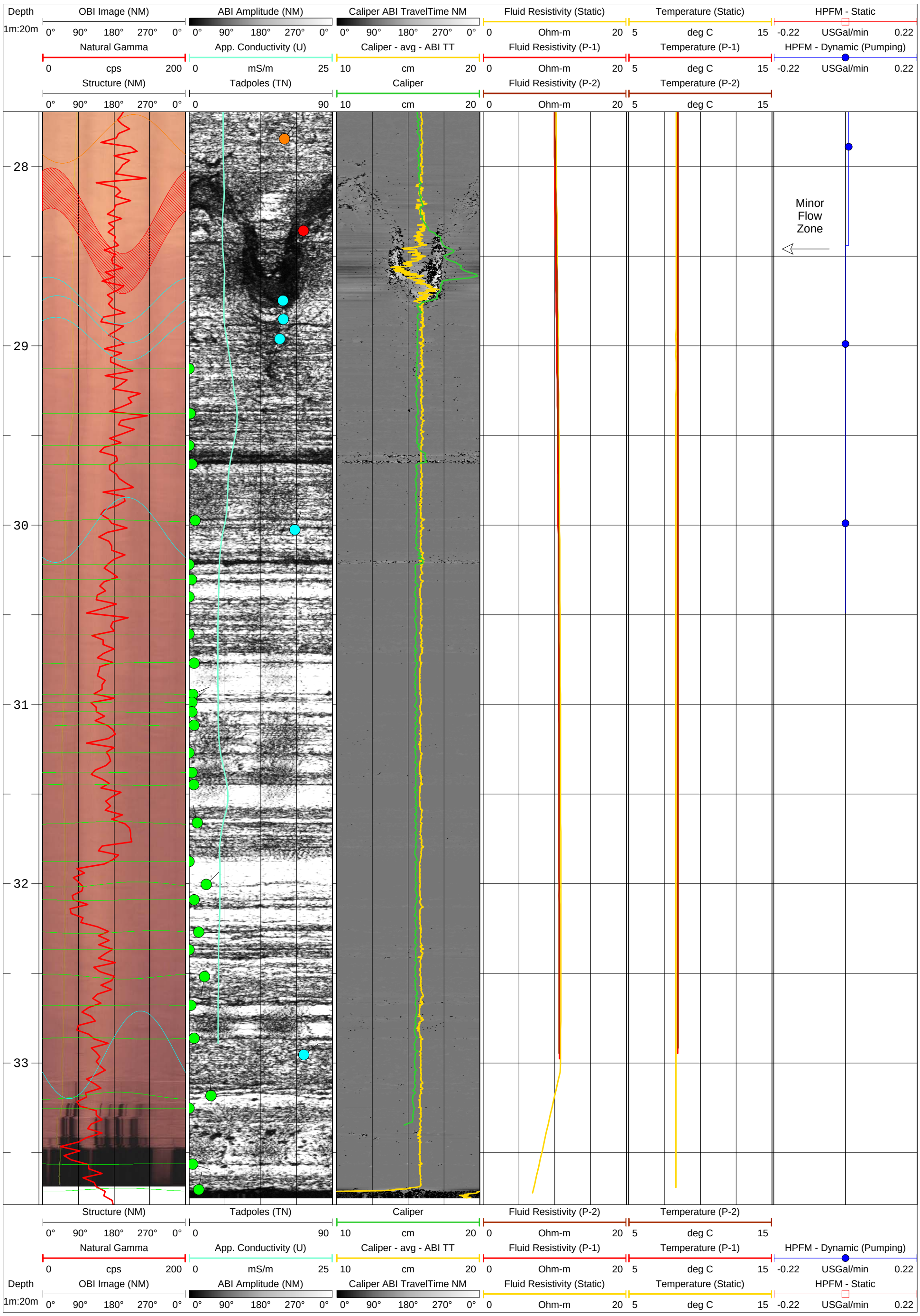
Fluid Resistivity (Static)
0 Ohm-m 20
Temperature (Static)
5 deg C 15
HPFM - Static
-0.22 USGal/min 0.22
Natural Gamma
0 cps 200
App. Conductivity (U)
0 mS/m 25
Caliper - avg - ABI TT
10 cm 20
Fluid Resistivity (P-1)
0 Ohm-m 20
Temperature (P-1)
5 deg C 15
HPFM - Dynamic (Pumping)
-0.22 USGal/min 0.22
Structure (NM)
0° 90° 180° 270° 0°
Tadpoles (TN)
0 90
Caliper
10 cm 20
Fluid Resistivity (P-2)
0 Ohm-m 20
Temperature (P-2)
5 deg C 15
21
22
23
24
25
26
27
Flow
Zone

BH09-7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ABI Amplitude (NM)
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Caliper ABI TravelTime NM
0° 90° 180° 270° 0°
Fluid Resistivity (Static)
0 Ohm-m 20
Temperature (Static)
5 deg C 15
HPFM - Static
-0.22 USGal/min 0.22
Natural Gamma
0 cps 200
App. Conductivity (U)
0 mS/m 25
Caliper - avg - ABI TT
10 cm 20
Fluid Resistivity (P-1)
0 Ohm-m 20
Temperature (P-1)
5 deg C 15
HPFM - Dynamic (Pumping)
-0.22 USGal/min 0.22
Structure (NM)
0° 90° 180° 270° 0°
Tadpoles (TN)
0 90
Caliper
10 cm 20
Fluid Resistivity (P-2)
0 Ohm-m 20
Temperature (P-2)
5 deg C 15
28
29
30
31
32
33
Minor
Flow
Zone

GEOPHYSICAL RECORD OF BOREHOLE: BH09-7

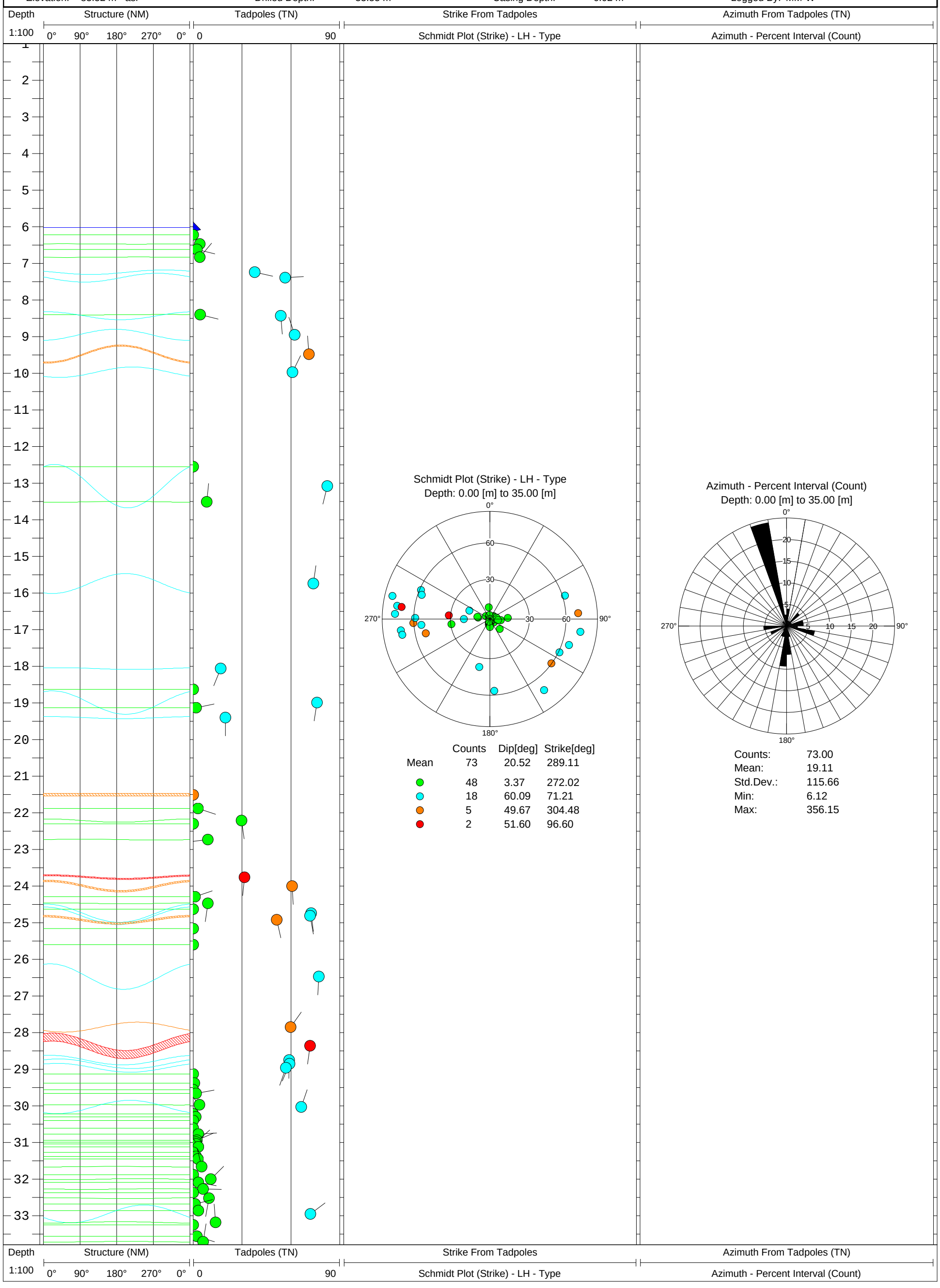
Borehole Geophysics

Confidential

Project Number: 09-1125-1008(3000)

Date: April, 2010

Datum:	MTM - NAD83						
Easting:	392,482 E	Depth Reference:	'0' at Ground Surface	Borehole Diameter:	6" (152.4 mm)	Location:	North Russel, Ontario
Northing:	5,018,476 N	Drilling Method:	Air Rotary	Casing Diameter:	158 mm	Log Date:	Dec. 4, 2009
Elevation:	83.52 m - asl	Drilled Depth:	33.55 m	Casing Depth:	6.02 m	Logged By:	MM-W



ATTACHMENT TSD#1-B-4-4

Geophysical Logging Results for BH09-8

Dynamic Heat Pulse Flow Meter Results - BH09-8

Borehole BH09-8
Dynamic Heat Pulse Flow Meter Testing
Pipe Stick Up = 0.76 (m)
Static Water Level = 1.57 (m - btop)

					Pump Rate				
Depth (m)	Acq. Time Day/Time	Pick Time (sec)	Flow (USGal/min)	Average (USGal/min) or Comment	Volume (USGal)	Time (min)	Rate USGal/min	Water Level (m - btop)	Draw Down (m)
2.65	4/12/2009 15:50	0.75	0.76						
	4/12/2009 15:51	0.75	0.76	0.76					
	4/12/2009 15:52	0.75	0.76						
2.99	4/12/2009 15:45	4.05	0.04		4.50	2.78	1.62	1.63	0.06
	4/12/2009 15:47	0.75	0.76	0.54					
	4/12/2009 15:49	0.80	0.67						
	4/12/2009 15:49	0.80	0.67						
3.99	4/12/2009 15:41	0.95	0.49						
	4/12/2009 15:42	1.00	0.44	0.47					
	4/12/2009 15:43	0.95	0.49						
4.97	4/12/2009 15:35	16.36	0.005						
	4/12/2009 15:36	16.36	0.005	0.01					
	4/12/2009 15:37	13.68	0.006						
	4/12/2009 15:39	14.26	0.006						
	4/12/2009 15:40	14.49	0.006						
7.48	4/12/2009 15:33	-	no flow	non-stable curve					
	4/12/2009 15:34	-	no flow	non-stable curve					
9.98	4/12/2009 15:29	-	no flow	non-stable curve					
	4/12/2009 15:31	-	no flow	non-stable curve					
14.99	4/12/2009 15:25	-	no flow	non-stable curve	4.50	1.47	3.07	1.63	0.06
	4/12/2009 15:26	12.25	0.007	possible very minor upward flow					
	4/12/2009 15:28	20.00	0.004	possible very minor upward flow					
19.99	4/12/2009 15:20	-	no flow	non-stable curve					
	4/12/2009 15:22	-	no flow	non-stable curve					
24.97	4/12/2009 15:16	20.00	0.004	possible very minor upward flow	4.50	1.48	3.03	1.63	0.06
	4/12/2009 15:18	20.00	0.004	possible very minor upward flow					

Static Heat Pulse Flow Meter Results - BH09-8

Borehole BH09-8
Static Heat Pulse Flow Meter Testing
Pipe Stick Up = 0.76 (m)
Static Water Level = 1.57 (m - btop)

Depth (m)	Acq. Time Day/Time	Pick Time (sec)	Flow USGal/min.	Average (USGal/min) or Comment
2.60	4/12/2009 14:51	-	no flow	non-stable curve
3.01	4/12/2009 14:52	-	no flow	non-stable curve
	4/12/2009 14:53	-	no flow	non-stable curve
5.01	4/12/2009 14:55	-	no flow	non-stable curve
	4/12/2009 14:56	-	no flow	non-stable curve
10.02	4/12/2009 15:00	-	no flow	non-stable curve
	4/12/2009 15:00	-	no flow	non-stable curve
20.04	4/12/2009 15:04	-	no flow	non-stable curve
	4/12/2009 15:04	-	no flow	non-stable curve
	4/12/2009 15:06	-	no flow	non-stable curve
25.01	4/12/2009 15:07	19.20	0.004	possible very minor upward flow
	4/12/2009 15:08	20.00	0.004	possible very minor upward flow

GEOPHYSICAL RECORD OF BOREHOLE: BH09-8

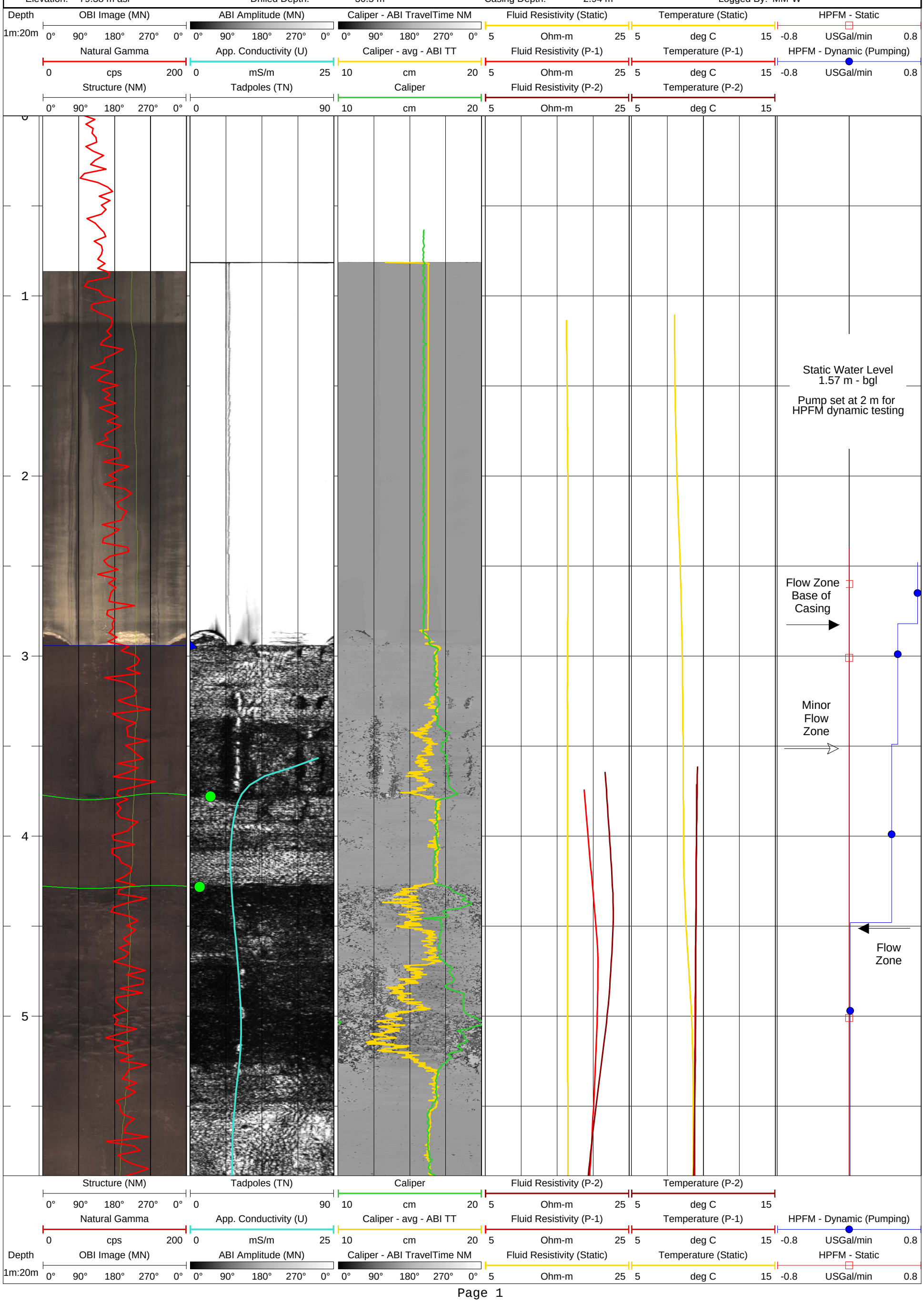
Borehole Geophysics

Confidential

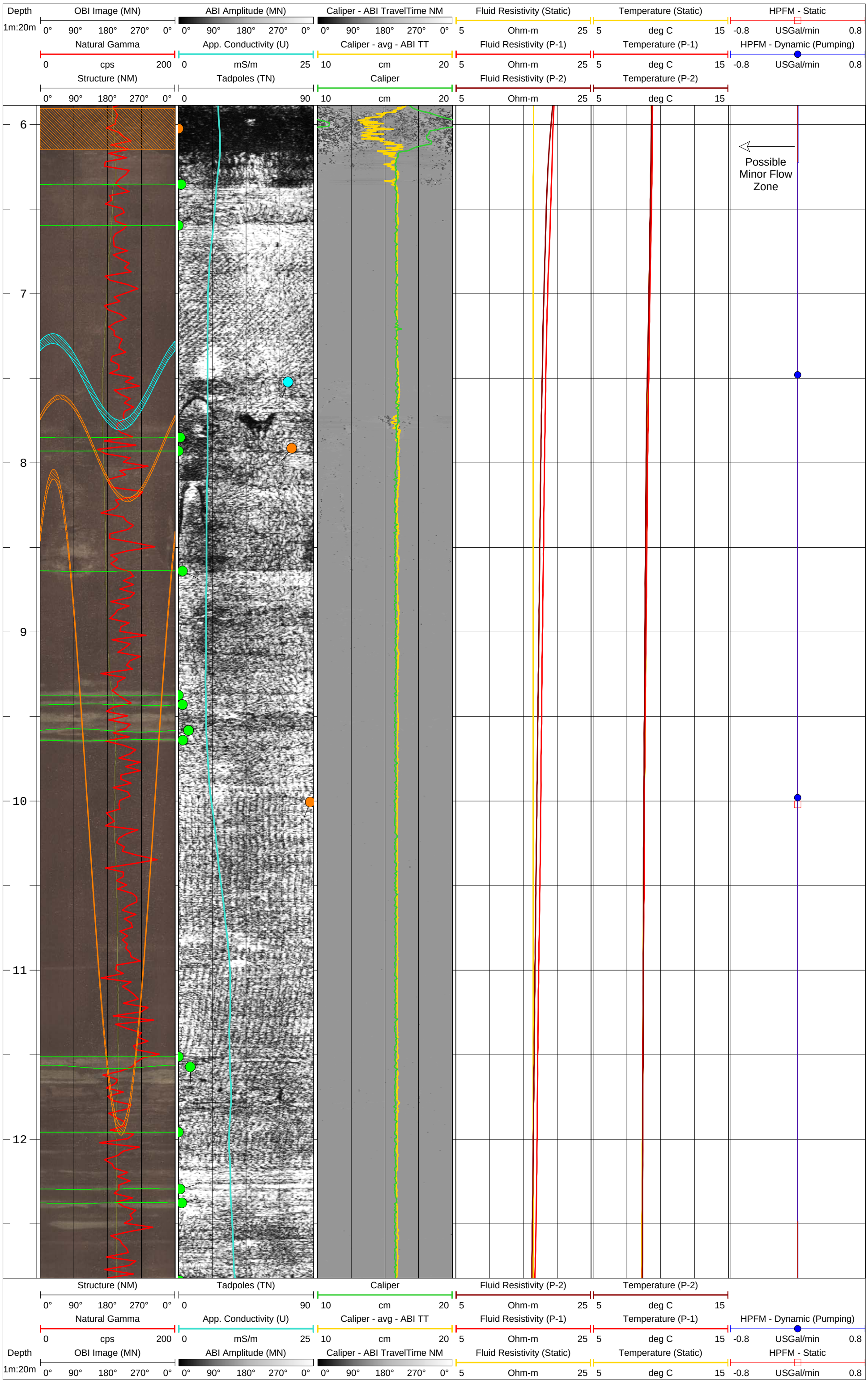
Project Number: 09-1125-1008 (3000)

Date: April, 2010

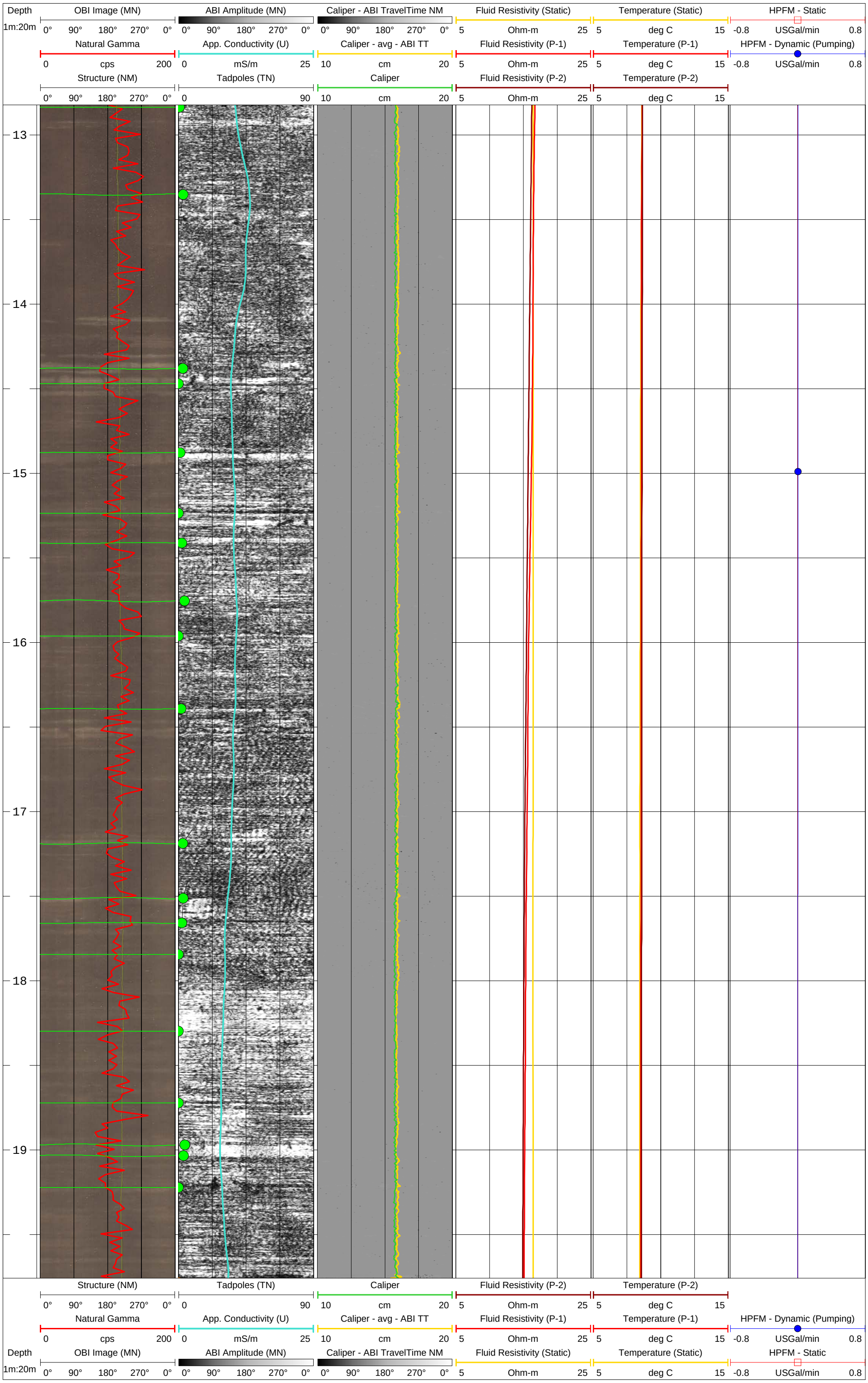
Datum:	MTM NAD83						
Easting:	393,472 E	Depth Reference:	'0' at Ground Surface	Borehole Diameter:	6" (152.4 mm)	Location:	North Russel, Ontario
Northing:	5,019,106 N	Drilling Method:	Air Rotary	Casing Diameter:	158 mm	Log Date:	December 4, 2009
Elevation:	79.38 m asl	Drilled Depth:	~30.5 m	Casing Depth:	2.94 m	Logged By:	MM-W



BH09-8


Depth
1m:20m
OBI Image (MN)
0° 90° 180° 270° 0°
ABI Amplitude (MN)
0° 90° 180° 270° 0°
Caliper - ABI TravelTime NM
0° 90° 180° 270° 0°
Fluid Resistivity (Static)
5 Ohm-m 25
Temperature (Static)
5 deg C 15
HPFM - Static
-0.8 USGal/min 0.8
Natural Gamma
0 cps 200
App. Conductivity (U)
0 mS/m 25
Caliper - avg - ABI TT
10 cm 20
Fluid Resistivity (P-1)
5 Ohm-m 25
Temperature (P-1)
5 deg C 15
HPFM - Dynamic (Pumping)
-0.8 USGal/min 0.8
Structure (NM)
0° 90° 180° 270° 0°
Tadpoles (TN)
0 90
Caliper
10 cm 20
Fluid Resistivity (P-2)
5 Ohm-m 25
Temperature (P-2)
5 deg C 15
6
7
8
9
10
11
12
Possible
Minor Flow
Zone

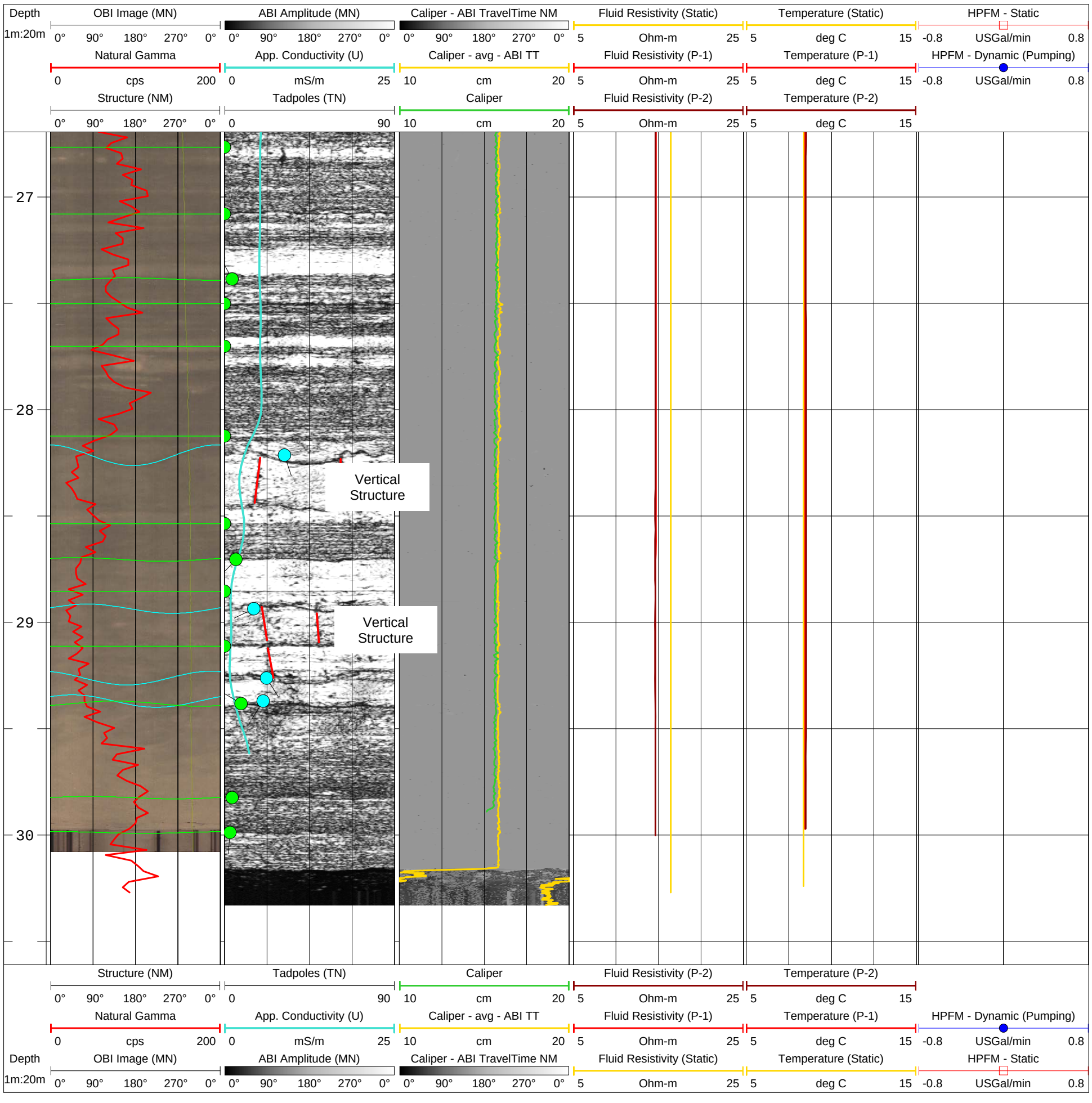
BH09-8


Depth
1m:20m
OBI Image (MN)
0° 90° 180° 270° 0°
ABI Amplitude (MN)
0° 90° 180° 270° 0°
Caliper - ABI TravelTime NM
0° 90° 180° 270° 0°
Fluid Resistivity (Static)
5 Ohm-m 25
Temperature (Static)
5 deg C 15
HPFM - Static
-0.8 USGal/min 0.8
Natural Gamma
0 cps 200
App. Conductivity (U)
0 mS/m 25
Caliper - avg - ABI TT
10 cm 20
Fluid Resistivity (P-1)
5 Ohm-m 25
Temperature (P-1)
5 deg C 15
HPFM - Dynamic (Pumping)
-0.8 USGal/min 0.8
Structure (NM)
0° 90° 180° 270° 0°
Tadpoles (TN)
0 90
Caliper
10 cm 20
Fluid Resistivity (P-2)
5 Ohm-m 25
Temperature (P-2)
5 deg C 15
13
14
15
16
17
18
19

BH09-8

Depth
1m:20m
OBI Image (MN)
0° 90° 180° 270° 0°
ABI Amplitude (MN)
0° 90° 180° 270° 0°
Caliper - ABI TravelTime NM
0° 90° 180° 270° 0°
Fluid Resistivity (Static)
5 Ohm-m 25
Temperature (Static)
5 deg C 15
HPFM - Static
-0.8 USGal/min 0.8
Natural Gamma
0 cps 200
App. Conductivity (U)
0 mS/m 25
Caliper - avg - ABI TT
10 cm 20
Fluid Resistivity (P-1)
5 Ohm-m 25
Temperature (P-1)
5 deg C 15
HPFM - Dynamic (Pumping)
-0.8 USGal/min 0.8
Structure (NM)
0° 90° 180° 270° 0°
Tadpoles (TN)
0 90
Caliper
10 cm 20
Fluid Resistivity (P-2)
5 Ohm-m 25
Temperature (P-2)
5 deg C 15
20
21
22
23
24
25
26

BH09-8


Depth
1m:20m
OBI Image (MN)
0° 90° 180° 270° 0°
ABI Amplitude (MN)
0° 90° 180° 270° 0°
Caliper - ABI TravelTime NM
0° 90° 180° 270° 0°
Fluid Resistivity (Static)
5 Ohm-m 25
Temperature (Static)
5 deg C 15
HPFM - Static
-0.8 USGal/min 0.8
Natural Gamma
0 cps 200
App. Conductivity (U)
0 mS/m 25
Caliper - avg - ABI TT
10 cm 20
Fluid Resistivity (P-1)
5 Ohm-m 25
Temperature (P-1)
5 deg C 15
HPFM - Dynamic (Pumping)
-0.8 USGal/min 0.8
Structure (NM)
0° 90° 180° 270° 0°
Tadpoles (TN)
0 90
Caliper
10 cm 20
Fluid Resistivity (P-2)
5 Ohm-m 25
Temperature (P-2)
5 deg C 15
27
28
29
30
Vertical Structure
Vertical Structure

GEOPHYSICAL RECORD OF BOREHOLE: BH09-8

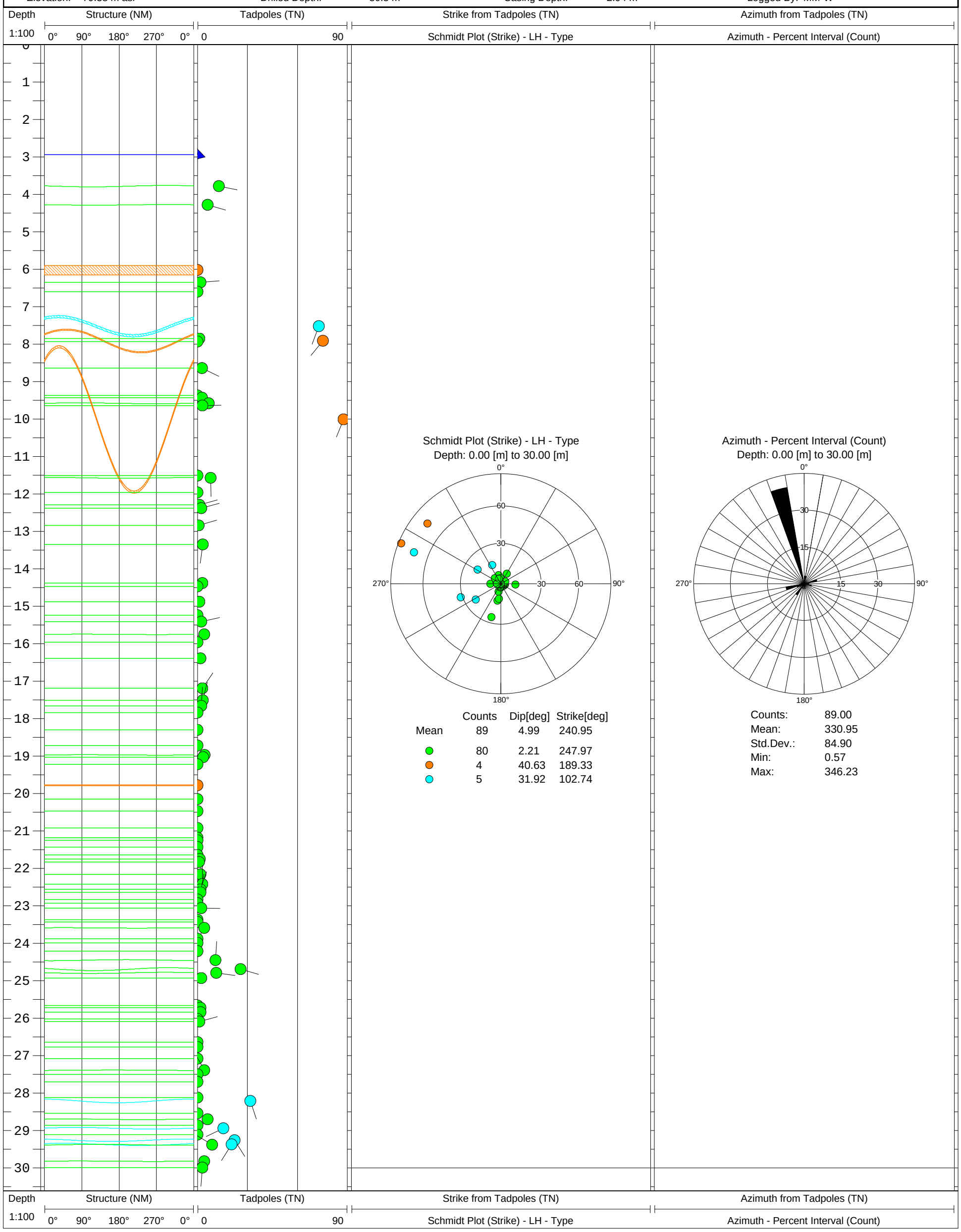
Borehole Geophysics

Confidential

Project Number: 09-1125-1008 (3000)

Date: April, 2010

Datum:	MTM NAD83						
Easting:	393,472 E	Depth Reference:	'0' at Ground Surface	Borehole Diameter:	6" (152.4 mm)	Location:	North Russel, Ontario
Northing:	5,019,106 N	Drilling Method:	Air Rotary	Casing Diameter:	158 mm	Log Date:	December 4, 2009
Elevation:	79.38 m asl	Drilled Depth:	~30.5 m	Casing Depth:	2.94 m	Logged By:	MM-W



ATTACHMENT TSD#1-B-5

Groundwater and Quarry Water Elevation Data (NRR Site)

TABLE TSD#1-B-5-1
GROUNDWATER ELEVATION DATA
NRR SITE, CRRRC PROJECT

Monitoring Intervals	Ground Surface Elevation (mASL)	TOP Elevation (mASL)	Screened Interval Elevation (mASL)		8-Jan-10		11-Feb-10		11-Mar-10		17-Mar-10	
			Top	Bottom	GW Depth (m)	GW Elev. (mASL)	GW Depth (m)	GW Elev. (mASL)	GW Depth (m)	GW Elev. (mASL)	GW Depth (m)	GW Elev. (mASL)
BH08-1	82.57	83.17	- -		- -	- -	5.63	77.54	5.25	77.92	5.34	77.83
BH08-2	80.77	81.44	- -		- -	- -	3.05	78.39	1.85	79.59	2.05	79.39
BH09-3A	86.30	87.13	70.50	64.35	4.28	82.85	4.70	82.43	4.18	82.95	4.05	83.08
BH09-3B	86.30	87.13	80.20	72.89	4.25	82.88	4.69	82.44	4.15	82.98	4.02	83.11
BH09-4A	79.05	79.94	62.59	57.10	2.27	77.67	frozen	- -	2.20	77.74	2.27	77.67
BH09-4B	79.05	79.96	77.22	71.43	1.58	78.38	2.43	77.53	0.85	79.11	0.93	79.03
BH09-5	73.93	74.69	55.03	48.33	1.85	72.84	1.86	72.83	1.96	72.73	1.93	72.76
BH09-6A	84.94	85.06	68.48	62.38	2.11	82.95	1.97	83.09	2.14	82.92	2.10	82.96
BH09-6B	84.94	85.09	80.06	74.58	1.34	83.75	1.56	83.53	1.48	83.61	1.47	83.62
BH09-7A	83.52	84.29	57.36	49.99	2.10	82.19	2.15	82.14	1.68	82.61	1.81	82.48
BH09-7B	83.52	84.31	65.23	59.29	2.12	82.19	2.17	82.14	1.68	82.63	1.81	82.50
BH09-7C	83.52	84.31	76.81	71.63	2.63	81.68	2.56	81.75	2.08	82.23	2.07	82.24
BH09-8A	79.38	80.27	55.00	48.90	14.81	65.46	17.54	62.73	21.74	58.53	19.63	60.64
BH09-8B	79.38	80.31	65.36	58.04	14.82	65.49	17.60	62.71	20.83	59.48	19.70	60.61
BH09-8C	79.38	80.33	75.42	71.15	1.83	78.50	1.92	78.41	1.47	78.86	1.46	78.87
SG-1	- -	78.18	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
SG-2	- -	79.29	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -

* - includes entire length of gravel pack for monitoring well installations
TOP - top of pipe
SG-2 was installed in June 2012 and was surveyed on July 16, 2012

Monitoring Intervals	Ground Surface Elevation (mASL)	TOP Elevation (mASL)	ened Interval Elevation (m		4-Aug-10		3-Sep-10		23-Oct-10		26-Nov-10	
			Top	Bottom	GW Depth (m)	GW Elev. (mASL)	GW Depth (m)	GW Elev. (mASL)	GW Depth (m)	GW Elev. (mASL)	GW Depth (m)	GW Elev. (mASL)
BH08-1	82.57	83.17	- -		8.97	74.20	7.41	75.76	5.68	77.49	5.34	77.83
BH08-2	80.77	81.44	- -		4.28	77.16	4.22	77.22	3.24	78.20	2.55	78.89
BH09-3A	86.30	87.13	70.50	64.35	5.46	81.67	5.48	81.65	4.72	82.41	4.08	83.05
BH09-3B	86.30	87.13	80.20	72.89	5.41	81.72	5.52	81.61	5.09	82.04	4.03	83.10
BH09-4A	79.05	79.94	62.59	57.10	3.47	76.47	3.31	76.63	2.37	77.57	1.94	78.00
BH09-4B	79.05	79.96	77.22	71.43	2.58	77.38	2.62	77.34	1.63	78.33	1.05	78.91
BH09-5	73.93	74.69	55.03	48.33	3.28	71.41	3.03	71.66	2.71	71.98	2.42	72.27
BH09-6A	84.94	85.06	68.48	62.38	2.53	82.53	3.11	81.95	2.78	82.28	2.44	82.62
BH09-6B	84.94	85.09	80.06	74.58	3.09	82.00	3.17	81.92	2.10	82.99	1.84	83.25
BH09-7A	83.52	84.29	57.36	49.99	3.82	80.47	3.96	80.33	2.43	81.86	1.74	82.55
BH09-7B	83.52	84.31	65.23	59.29	3.84	80.47	3.99	80.32	2.43	81.88	1.74	82.57
BH09-7C	83.52	84.31	76.81	71.63	3.83	80.48	3.93	80.38	2.80	81.51	2.30	82.01
BH09-8A	79.38	80.27	55.00	48.90	19.10	61.17	17.53	62.74	23.89	56.38	18.66	61.61
BH09-8B	79.38	80.31	65.36	58.04	19.20	61.11	17.62	62.69	19.83	60.48	18.01	62.30
BH09-8C	79.38	80.33	75.42	71.15	3.83	76.50	3.20	77.13	2.02	78.31	1.62	78.71
SG-1	- -	78.18	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
SG-2	- -	79.29	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -

* - includes entire length of gravel pack for monitoring well installations
TOP - top of pipe
SG-2 was installed in June 2012 and was surveyed on July 16, 2012

TABLE TSD#1-B-5-1
GROUNDWATER ELEVATION DATA
NRR SITE, CRRRC PROJECT

Monitoring Intervals	Ground Surface Elevation (mASL)	TOP Elevation (mASL)	Screened Interval Elevation (mASL)		30-Mar-10		20-May-10		23-Jun-10		4-Mar-11	
			Top	Bottom	GW Depth (m)	GW Elev. (mASL)	GW Depth (m)	GW Elev. (mASL)	GW Depth (m)	GW Elev. (mASL)	GW Depth (m)	GW Elev. (mASL)
BH08-1	82.57	83.17	- -		5.49	77.68	5.80	77.37	5.79	77.38	5.81	77.36
BH08-2	80.77	81.44	- -		2.32	79.12	3.39	78.05	3.87	77.57	3.48	77.96
BH09-3A	86.30	87.13	70.50	64.35	4.46	82.67	5.50	81.63	5.29	81.84	4.73	82.40
BH09-3B	86.30	87.13	80.20	72.89	4.43	82.70	5.47	81.66	5.19	81.94	4.68	82.45
BH09-4A	79.05	79.94	62.59	57.10	2.22	77.72	2.81	77.13	3.29	76.65	2.62	77.32
BH09-4B	79.05	79.96	77.22	71.43	0.95	79.01	2.00	77.96	2.29	77.67	1.99	77.97
BH09-5	73.93	74.69	55.03	48.33	1.89	72.80	1.98	72.71	2.32	72.37	2.15	72.54
BH09-6A	84.94	85.06	68.48	62.38	2.08	82.98	2.08	82.98	2.24	82.82	2.12	82.94
BH09-6B	84.94	85.09	80.06	74.58	1.55	83.54	1.68	83.41	2.00	83.09	1.58	83.51
BH09-7A	83.52	84.29	57.36	49.99	1.69	82.60	2.37	81.92	3.10	81.19	2.61	81.68
BH09-7B	83.52	84.31	65.23	59.29	1.67	82.64	2.36	81.95	3.07	81.24	2.62	81.69
BH09-7C	83.52	84.31	76.81	71.63	2.22	82.09	2.90	81.41	3.29	81.02	2.89	81.42
BH09-8A	79.38	80.27	55.00	48.90	18.73	61.54	15.71	64.56	11.12	69.15	8.89	71.38
BH09-8B	79.38	80.31	65.36	58.04	18.82	61.49	15.78	64.53	11.21	69.10	8.97	71.34
BH09-8C	79.38	80.33	75.42	71.15	1.47	78.86	2.22	78.11	2.76	77.57	2.16	78.17
SG-1	- -	78.18	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
SG-2	- -	79.29	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -

* - includes entire length of gravel pack for monitoring well installations
TOP - top of pipe
SG-2 was installed in June 2012 and was surveyed on July 16, 2012

Monitoring Intervals	Ground Surface Elevation (mASL)	TOP Elevation (mASL)	ened Interval Elevation (m		9-Dec-10		7-Jan-11		16-Feb-11		17-Oct-11	
			Top	Bottom	GW Depth (m)	GW Elev. (mASL)	GW Depth (m)	GW Elev. (mASL)	GW Depth (m)	GW Elev. (mASL)	GW Depth (m)	GW Elev. (mASL)
BH08-1	82.57	83.17	- -		5.42	77.75	5.63	77.54	5.89	77.28	5.75	77.42
BH08-2	80.77	81.44	- -		2.52	78.92	2.95	78.49	3.69	77.75	4.24	77.20
BH09-3A	86.30	87.13	70.50	64.35	3.91	83.22	4.15	82.98	4.89	82.24	5.71	81.42
BH09-3B	86.30	87.13	80.20	72.89	3.78	83.35	4.14	82.99	4.86	82.27	5.62	81.51
BH09-4A	79.05	79.94	62.59	57.10	1.91	78.03	1.95	77.99	2.49	77.45	3.10	76.84
BH09-4B	79.05	79.96	77.22	71.43	1.20	78.76	1.47	78.49	2.11	77.85	2.73	77.23
BH09-5	73.93	74.69	55.03	48.33	2.18	72.51	2.04	72.65	2.23	72.46	4.04	70.65
BH09-6A	84.94	85.06	68.48	62.38	2.26	82.80	1.97	83.09	2.29	82.77	3.35	81.71
BH09-6B	84.94	85.09	80.06	74.58	1.71	83.38	1.39	83.70	1.65	83.44	3.66	81.43
BH09-7A	83.52	84.29	57.36	49.99	1.93	82.36	1.93	82.36	2.70	81.59	4.51	79.78
BH09-7B	83.52	84.31	65.23	59.29	1.93	82.38	1.90	82.41	2.70	81.61	4.62	79.69
BH09-7C	83.52	84.31	76.81	71.63	2.34	81.97	2.57	81.74	2.94	81.37	4.47	79.84
BH09-8A	79.38	80.27	55.00	48.90	18.31	61.96	16.38	63.89	10.85	69.42	3.70	76.57
BH09-8B	79.38	80.31	65.36	58.04	17.63	62.68	16.37	63.94	10.91	69.40	3.70	76.61
BH09-8C	79.38	80.33	75.42	71.15	1.73	78.60	1.85	78.48	2.19	78.14	3.53	76.80
SG-1	- -	78.18	- -	- -	- -	- -	- -	- -	- -	- -	0.94	77.24
SG-2	- -	79.29	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -

* - includes entire length of gravel pack for monitoring well installations
TOP - top of pipe
SG-2 was installed in June 2012 and was surveyed on July 16, 2012

TABLE TSD#1-B-5-1
GROUNDWATER ELEVATION DATA
NRR SITE, CRRRC PROJECT

Monitoring Intervals	Ground Surface Elevation (mASL)	TOP Elevation (mASL)	Screened Interval Elevation (mASL)		25-Apr-11		20-May-11		7-Jun-11		20-Jul-11	
			Top	Bottom	GW Depth (m)	GW Elev. (mASL)	GW Depth (m)	GW Elev. (mASL)	GW Depth (m)	GW Elev. (mASL)	GW Depth (m)	GW Elev. (mASL)
BH08-1	82.57	83.17	- -		5.24	77.93	4.93	78.24	5.30	77.87	5.71	77.46
BH08-2	80.77	81.44	- -		1.99	79.45	2.28	79.16	2.76	78.68	3.76	77.68
BH09-3A	86.30	87.13	70.50	64.35	3.56	83.57	4.06	83.07	4.61	82.52	5.58	81.55
BH09-3B	86.30	87.13	80.20	72.89	3.47	83.66	3.99	83.14	4.58	82.55	5.56	81.57
BH09-4A	79.05	79.94	62.59	57.10	2.34	77.60	2.42	77.52	2.63	77.31	3.27	76.67
BH09-4B	79.05	79.96	77.22	71.43	1.95	78.01	0.99	78.97	1.77	78.19	2.73	77.23
BH09-5	73.93	74.69	55.03	48.33	1.96	72.73	1.92	72.77	1.99	72.70	2.60	72.09
BH09-6A	84.94	85.06	68.48	62.38	2.03	83.03	1.99	83.07	1.96	83.10	2.89	82.17
BH09-6B	84.94	85.09	80.06	74.58	1.31	83.78	1.32	83.77	1.47	83.62	3.54	81.55
BH09-7A	83.52	84.29	57.36	49.99	1.70	82.59	1.64	82.65	2.12	82.17	3.37	80.92
BH09-7B	83.52	84.31	65.23	59.29	1.76	82.55	1.61	82.70	2.10	82.21	3.37	80.94
BH09-7C	83.52	84.31	76.81	71.63	2.11	82.20	2.36	81.95	2.78	81.53	3.55	80.76
BH09-8A	79.38	80.27	55.00	48.90	5.28	74.99	4.38	75.89	4.01	76.26	3.48	76.79
BH09-8B	79.38	80.31	65.36	58.04	5.33	74.98	4.43	75.88	4.01	76.30	3.51	76.80
BH09-8C	79.38	80.33	75.42	71.15	1.44	78.89	1.42	78.91	1.84	78.49	2.99	77.34
SG-1	- -	78.18	- -	- -	- -	- -	0.86	77.32	0.82	77.36	0.885	77.30
SG-2	- -	79.29	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -

* - includes entire length of gravel pack for monitoring well installations
TOP - top of pipe
SG-2 was installed in June 2012 and was surveyed on July 16, 2012

Monitoring Intervals	Ground Surface Elevation (mASL)	TOP Elevation (mASL)	ened Interval Elevation (m		24-Nov-11		13-Dec-11		12-Jan-12		28-Feb-12	
			Top	Bottom	GW Depth (m)	GW Elev. (mASL)	GW Depth (m)	GW Elev. (mASL)	GW Depth (m)	GW Elev. (mASL)	GW Depth (m)	GW Elev. (mASL)
BH08-1	82.57	83.17	- -		5.80	77.37	5.30	77.87	5.54	77.63	4.92	78.25
BH08-2	80.77	81.44	- -		4.07	77.37	3.04	78.40	3.29	78.15	2.85	78.59
BH09-3A	86.30	87.13	70.50	64.35	5.65	81.48	4.85	82.28	4.73	82.40	4.50	82.63
BH09-3B	86.30	87.13	80.20	72.89	5.53	81.60	4.80	82.33	4.69	82.44	4.46	82.67
BH09-4A	79.05	79.94	62.59	57.10	2.65	77.29	2.27	77.67	1.98	77.96	2.20	77.74
BH09-4B	79.05	79.96	77.22	71.43	2.60	77.36	1.46	78.50	1.81	78.15	1.51	78.45
BH09-5	73.93	74.69	55.03	48.33	4.06	70.63	3.82	70.87	3.56	71.13	3.16	71.53
BH09-6A	84.94	85.06	68.48	62.38	3.62	81.44	3.40	81.66	2.84	82.22	2.76	82.30
BH09-6B	84.94	85.09	80.06	74.58	3.52	81.57	2.45	82.64	1.82	83.27	1.69	83.40
BH09-7A	83.52	84.29	57.36	49.99	4.24	80.05	3.10	81.19	2.78	81.51	2.49	81.80
BH09-7B	83.52	84.31	65.23	59.29	4.26	80.05	3.10	81.21	2.76	81.55	2.49	81.82
BH09-7C	83.52	84.31	76.81	71.63	4.20	80.11	3.22	81.09	2.93	81.38	2.72	81.59
BH09-8A	79.38	80.27	55.00	48.90	3.81	76.46	3.75	76.52	3.74	76.53	3.37	76.90
BH09-8B	79.38	80.31	65.36	58.04	3.83	76.48	3.83	76.48	3.73	76.58	3.41	76.90
BH09-8C	79.38	80.33	75.42	71.15	3.20	77.13	2.02	78.31	2.14	78.19	1.82	78.51
SG-1	- -	78.18	- -	- -	0.89	77.29	0.80	77.39	frozen	- -	frozen	- -
SG-2	- -	79.29	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -

* - includes entire length of gravel pack for monitoring well installations
TOP - top of pipe
SG-2 was installed in June 2012 and was surveyed on July 16, 2012

TABLE TSD#1-B-5-1
GROUNDWATER ELEVATION DATA
NRR SITE, CRRRC PROJECT

Monitoring Intervals	Ground Surface Elevation (mASL)	TOP Elevation (mASL)	Screened Interval Elevation (mASL)		30-Aug-11		16-Sep-11		30-May-12		28-Jun-12	
			Top	Bottom	GW Depth (m)	GW Elev. (mASL)	GW Depth (m)	GW Elev. (mASL)	GW Depth (m)	GW Elev. (mASL)	GW Depth (m)	GW Elev. (mASL)
BH08-1	82.57	83.17	- -		5.75	77.42	5.78	77.39	5.01	78.16	5.02	78.15
BH08-2	80.77	81.44	- -		4.16	77.28	4.13	77.31	3.09	78.35	3.37	78.07
BH09-3A	86.30	87.13	70.50	64.35	5.64	81.49	5.67	81.46	4.78	82.35	4.95	82.18
BH09-3B	86.30	87.13	80.20	72.89	5.59	81.54	5.62	81.51	4.66	82.47	4.91	82.22
BH09-4A	79.05	79.94	62.59	57.10	3.50	76.44	3.32	76.62	2.42	77.52	2.82	77.12
BH09-4B	79.05	79.96	77.22	71.43	2.81	77.15	2.61	77.35	1.98	77.98	2.53	77.43
BH09-5	73.93	74.69	55.03	48.33	3.34	71.35	3.63	71.06	2.20	72.49	2.40	72.29
BH09-6A	84.94	85.06	68.48	62.38	2.99	82.07	3.28	81.78	2.22	82.84	2.64	82.42
BH09-6B	84.94	85.09	80.06	74.58	3.64	81.45	3.60	81.49	1.84	83.25	2.06	83.03
BH09-7A	83.52	84.29	57.36	49.99	4.31	79.98	4.40	79.89	2.38	81.91	2.31	81.98
BH09-7B	83.52	84.31	65.23	59.29	4.34	79.97	4.42	79.89	2.52	81.79	2.98	81.33
BH09-7C	83.52	84.31	76.81	71.63	4.26	80.05	4.30	80.01	2.93	81.38	3.01	81.30
BH09-8A	79.38	80.27	55.00	48.90	3.45	76.82	3.50	76.77	2.62	77.65	2.50	77.77
BH09-8B	79.38	80.31	65.36	58.04	3.50	76.81	3.56	76.75	2.61	77.70	2.51	77.80
BH09-8C	79.38	80.33	75.42	71.15	3.58	76.75	3.44	76.89	2.18	78.15	2.78	77.55
SG-1	- -	78.18	- -	- -	0.94	77.24	0.91	77.27	0.11	78.07	- -	- -
SG-2	- -	79.29	- -	- -	- -	- -	- -	- -	- -	- -	1.29	78.00

* - includes entire length of gravel pack for monitoring well installations
TOP - top of pipe
SG-2 was installed in June 2012 and was surveyed on July 16, 2012

Monitoring Intervals	Ground Surface Elevation (mASL)	TOP Elevation (mASL)	ened Interval Elevation (m		29-Mar-12		9-Apr-12		6-Dec-12	
			Top	Bottom	GW Depth (m)	GW Elev. (mASL)	GW Depth (m)	GW Elev. (mASL)	GW Depth (m)	GW Elev. (mASL)
BH08-1	82.57	83.17	- -		5.05	78.12	5.10	78.07	5.13	78.04
BH08-2	80.77	81.44	- -		2.40	79.04	2.67	78.77	3.44	78.00
BH09-3A	86.30	87.13	70.50	64.35	3.73	83.40	4.16	82.97	5.45	81.68
BH09-3B	86.30	87.13	80.20	72.89	3.67	83.46	4.12	83.01	5.40	81.73
BH09-4A	79.05	79.94	62.59	57.10	2.05	77.89	2.24	77.70	2.45	77.49
BH09-4B	79.05	79.96	77.22	71.43	1.05	78.91	1.40	78.56	1.98	77.98
BH09-5	73.93	74.69	55.03	48.33	2.39	72.30	2.46	72.23	4.94	69.75
BH09-6A	84.94	85.06	68.48	62.38	2.36	82.70	2.20	82.86	3.73	81.33
BH09-6B	84.94	85.09	80.06	74.58	1.51	83.58	1.51	83.58	3.44	81.65
BH09-7A	83.52	84.29	57.36	49.99	1.88	82.41	1.97	82.32	4.46	79.83
BH09-7B	83.52	84.31	65.23	59.29	1.82	82.49	1.91	82.40	4.68	79.63
BH09-7C	83.52	84.31	76.81	71.63	2.35	81.96	2.55	81.76	4.05	80.26
BH09-8A	79.38	80.27	55.00	48.90	3.09	77.18	2.94	77.33	3.19	77.08
BH09-8B	79.38	80.31	65.36	58.04	3.12	77.19	2.99	77.32	3.21	77.10
BH09-8C	79.38	80.33	75.42	71.15	1.56	78.77	1.69	78.64	2.93	77.40
SG-1	- -	78.18	- -	- -	0.27	77.91	0.26	77.92	- -	- -
SG-2	- -	79.29	- -	- -	- -	- -	- -	- -	- -	- -

* - includes entire length of gravel pack for monitoring well installations
TOP - top of pipe
SG-2 was installed in June 2012 and was surveyed on July 16, 2012

TABLE TSD#1-B-5-1
GROUNDWATER ELEVATION DATA
NRR SITE, CRRRC PROJECT

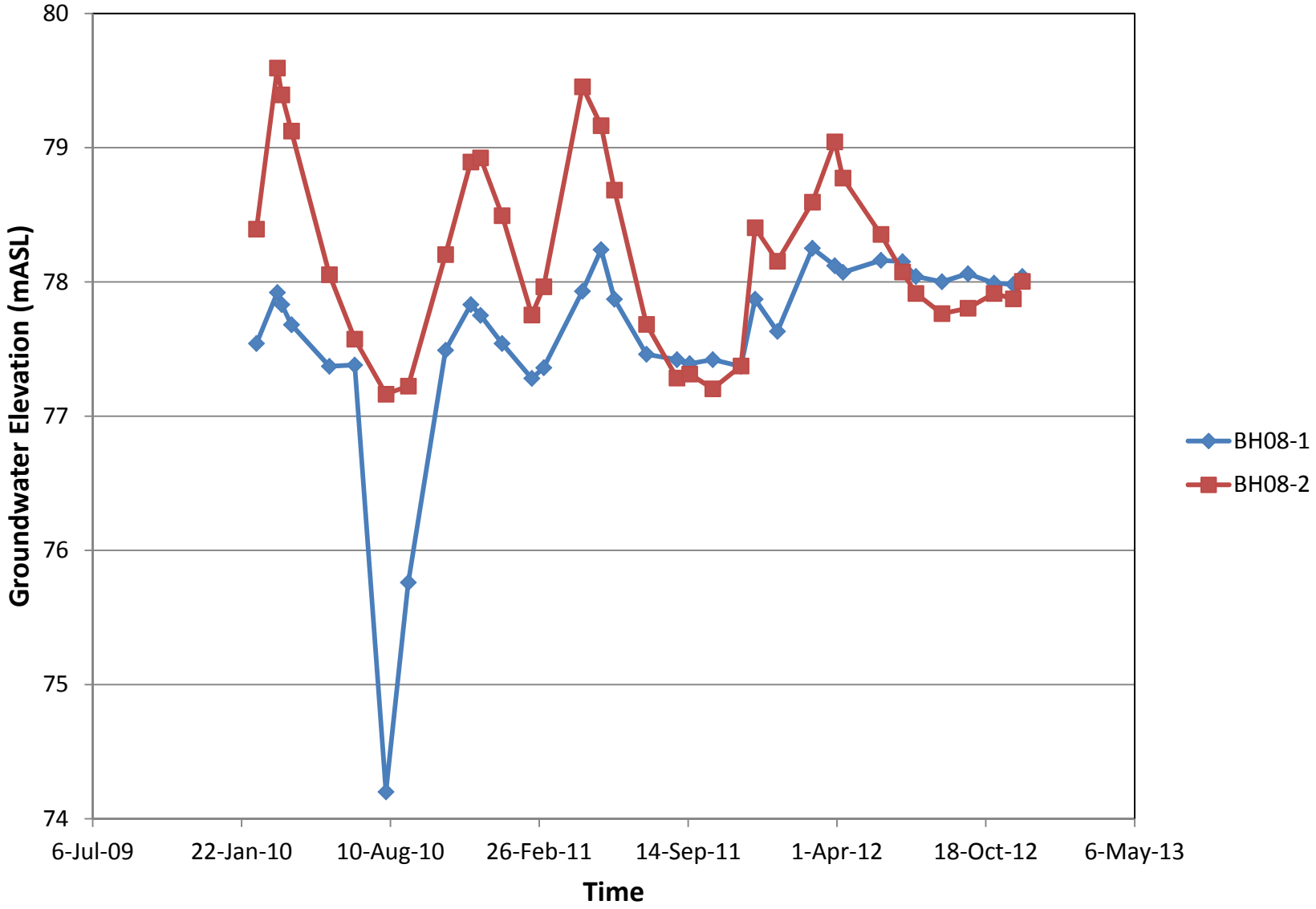
Monitoring Intervals	Ground Surface Elevation (mASL)	TOP Elevation (mASL)	Screened Interval Elevation (mASL)		16-Jul-12		20-Aug-12		24-Sep-12		29-Oct-12	
			Top	Bottom	GW Depth (m)	GW Elev. (mASL)	GW Depth (m)	GW Elev. (mASL)	GW Depth (m)	GW Elev. (mASL)	GW Depth (m)	GW Elev. (mASL)
BH08-1	82.57	83.17	- -		5.13	78.04	5.17	78.00	5.11	78.06	5.18	77.99
BH08-2	80.77	81.44	- -		3.53	77.91	3.68	77.76	3.64	77.80	3.53	77.91
BH09-3A	86.30	87.13	70.50	64.35	5.06	82.07	5.56	81.57	5.66	81.47	5.35	81.78
BH09-3B	86.30	87.13	80.20	72.89	5.02	82.11	5.52	81.61	5.61	81.52	5.30	81.83
BH09-4A	79.05	79.94	62.59	57.10	3.40	76.54	3.39	76.55	3.16	76.78	2.83	77.11
BH09-4B	79.05	79.96	77.22	71.43	2.76	77.20	2.85	77.11	2.51	77.45	2.20	77.76
BH09-5	73.93	74.69	55.03	48.33	2.70	71.99	3.55	71.14	4.55	70.14	4.90	69.79
BH09-6A	84.94	85.06	68.48	62.38	2.58	82.48	3.26	81.80	3.18	81.88	3.65	81.41
BH09-6B	84.94	85.09	80.06	74.58	3.01	82.08	3.54	81.55	3.30	81.79	3.53	81.56
BH09-7A	83.52	84.29	57.36	49.99	3.66	80.63	4.53	79.76	4.82	79.47	4.53	79.76
BH09-7B	83.52	84.31	65.23	59.29	3.65	80.66	4.55	79.76	4.87	79.44	4.61	79.70
BH09-7C	83.52	84.31	76.81	71.63	3.77	80.54	4.58	79.73	4.75	79.56	4.28	80.03
BH09-8A	79.38	80.27	55.00	48.90	2.44	77.83	2.56	77.71	2.77	77.50	2.99	77.28
BH09-8B	79.38	80.31	65.36	58.04	2.48	77.83	2.60	77.71	2.81	77.50	3.02	77.29
BH09-8C	79.38	80.33	75.42	71.15	3.28	77.05	3.70	76.63	3.65	76.68	3.15	77.18
SG-1	- -	78.18	- -	- -	0.25	77.93	- -	- -	- -	- -	- -	- -
SG-2	- -	79.29	- -	- -	1.36	77.93	1.41	77.88	1.41	77.88	1.39	77.90

* - includes entire length of gravel pack for monitoring well installations
TOP - top of pipe
SG-2 was installed in June 2012 and was surveyed on July 16, 2012

TABLE TSD#1-B-5-1
GROUNDWATER ELEVATION DATA
NRR SITE, CRRRC PROJECT

Monitoring Intervals	Ground Surface Elevation (mASL)	TOP Elevation (mASL)	Screened Interval Elevation (mASL)		24-Nov-12	
			Top	Bottom	GW Depth (m)	GW Elev. (mASL)
BH08-1	82.57	83.17	- -		5.19	77.98
BH08-2	80.77	81.44	- -		3.57	77.87
BH09-3A	86.30	87.13	70.50	64.35	5.35	81.78
BH09-3B	86.30	87.13	80.20	72.89	5.31	81.82
BH09-4A	79.05	79.94	62.59	57.10	2.50	77.44
BH09-4B	79.05	79.96	77.22	71.43	2.37	77.59
BH09-5	73.93	74.69	55.03	48.33	4.85	69.84
BH09-6A	84.94	85.06	68.48	62.38	3.56	81.50
BH09-6B	84.94	85.09	80.06	74.58	3.33	81.76
BH09-7A	83.52	84.29	57.36	49.99	4.45	79.84
BH09-7B	83.52	84.31	65.23	59.29	4.52	79.79
BH09-7C	83.52	84.31	76.81	71.63	4.20	80.11
BH09-8A	79.38	80.27	55.00	48.90	3.18	77.09
BH09-8B	79.38	80.31	65.36	58.04	3.15	77.16
BH09-8C	79.38	80.33	75.42	71.15	3.10	77.23
SG-1	- -	78.18	- -	- -	- -	- -
SG-2	- -	79.29	- -	- -	- -	- -

* - includes entire length of gravel pack for monitoring well installations
TOP - top of pipe
SG-2 was installed in June 2012 and was surveyed on July 16, 2012



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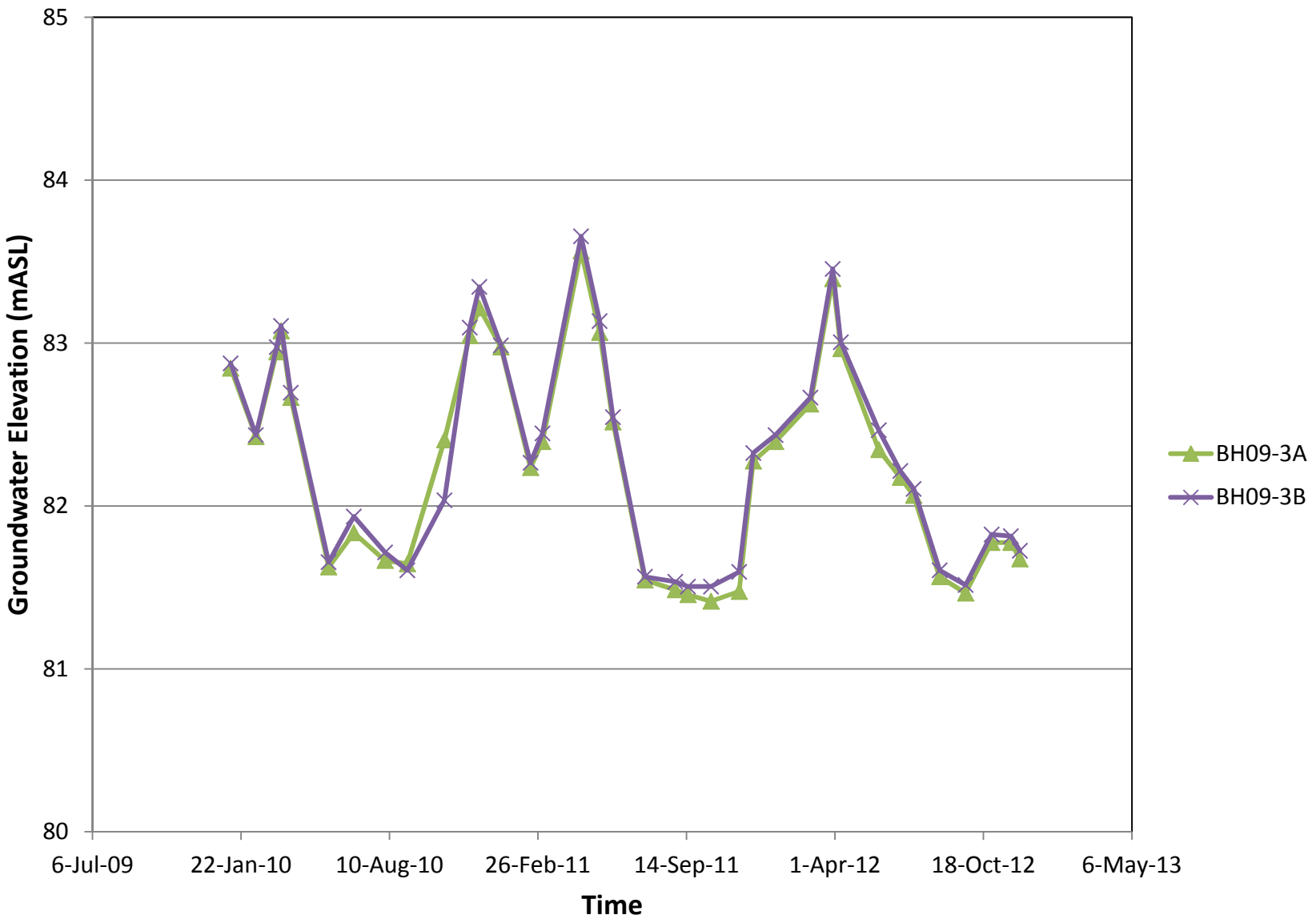
Date: January 2013 Drawn: JPAO

Project: 12-1125-0045 Checked: KAM

FIGURE TSD#1-B-5-1: GROUNDWATER ELEVATION DATA FOR BH08-1 and BH08-2



Golder Associates

Date: January 2013 Drawn: JPAO

Project: 12-1125-0045 Checked: KAM

FIGURE TSD#1-B-5-2: GROUNDWATER ELEVATION DATA FOR BH09-3