MV Geophysical

X-Y CALIPER
GAMMA RAY
LOG

Company Florida Design Drilling Corp.
Well Chapman TPW-A1
Field Kenansville
County Osceola
State/Prv Florida

Company Florida Design Drilling Corp.
Well Chapman TPW-A1
Field Kenansville
County Osceola State/Prv Florida

Location
TOHO Water Authority - Site A
4397 Canoe Creek Road, Kenansville, FL 34739
Tetra Tech / SFWMD

Other Services
XY/GR,BHC
DIL/SP,FCT
FLOW,DHTV

Permanent Datum	Ground Level	Elevation
Log Measured From	Ground Level	
Drilling Measured From	Ground Level	

Elevation
K.B.
D.F.
G.L.

Date	18-SEP-2009		
Run Number	ONE		
Depth Driller	1200'		
Depth Logger	1200'		
Bottom Logged Interval	1200'		
Top Log Interval	SURFACE		
Open Hole Size	12.25"		
Type Fluid	H2O		
Density / Viscosity	na/na		
Max. Recorded Temp.	see FCT log		
Estimated Cement Top	na		
Time Well Ready	08:30 9/18/09		
Time Logger on Bottom	08:45 9/18/09		
Equipment Number	MVGS-1		
Location	FTM		
Recorded By	S.Miller / C.Miller		
Witnessed By	B.Lafrenz (TT)	D.Ringdahl (FDD)	E.Richardson (SFWMD)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	315'	1200'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	30"	0.375" WT	SURFACE	315'
Prot. String				
Production String				
Liner			ftoho-a1.db	6x
Invoice No.:	2009136	P.O. #: 4920	FDD Job #: 4920	* FINAL PRINT *

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

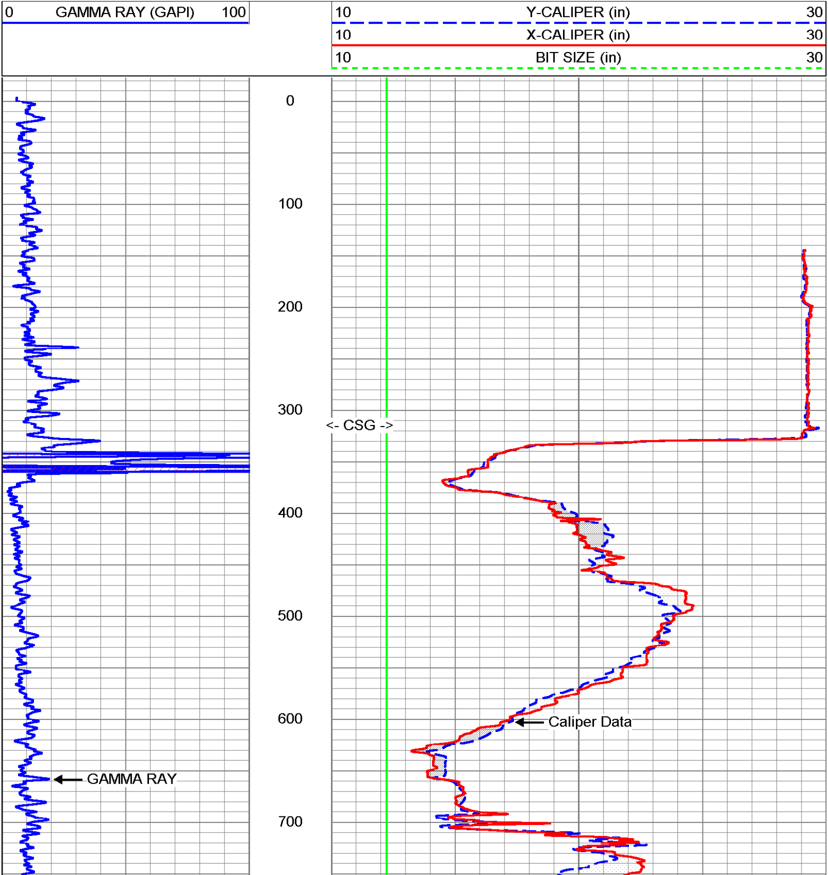
Comments

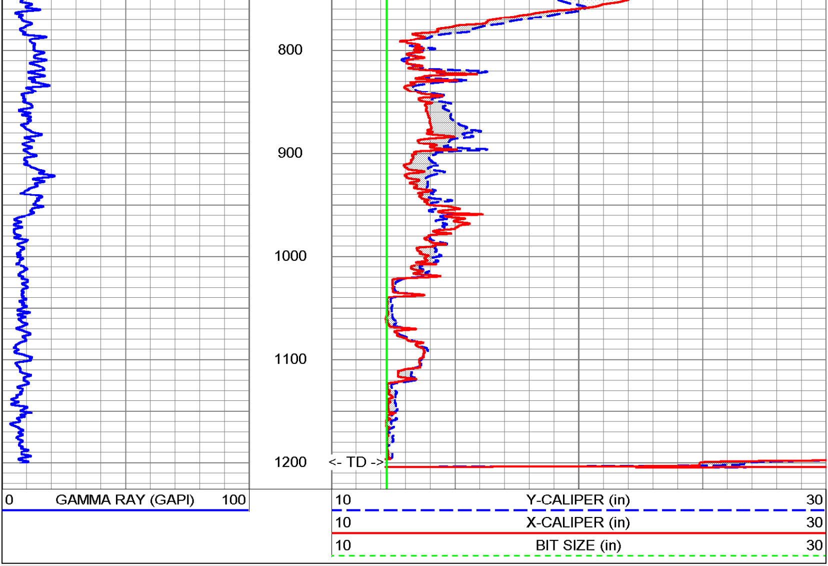
MAXIMUM CALIPER ARM EXTENSION: 33"

MV Geophysical

MAIN PASS

Database File: ftoho-a1.db
Dataset Pathname: MAIN
Presentation Format: XY1030-1
Dataset Creation: Wed Sep 16 11:08:44 2009
Charted by: Depth in Feet scaled 1:1200

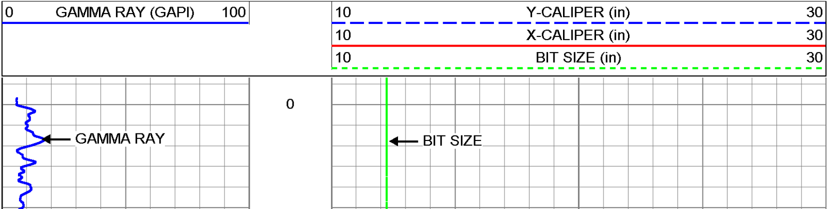


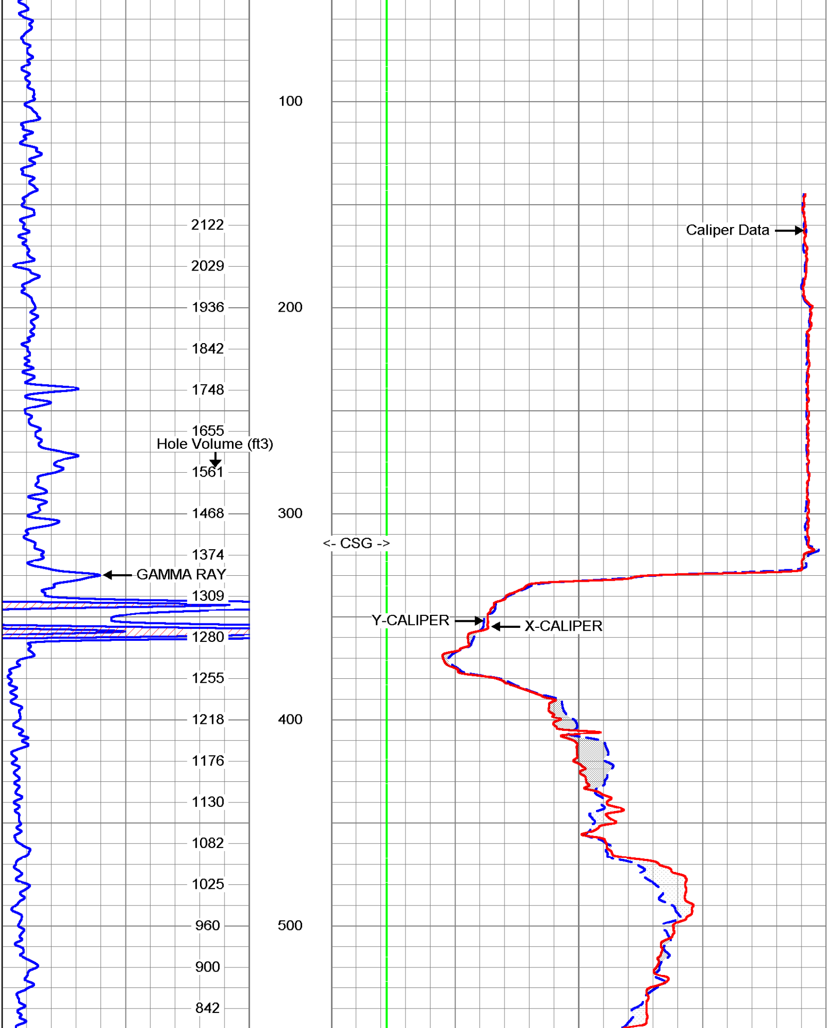


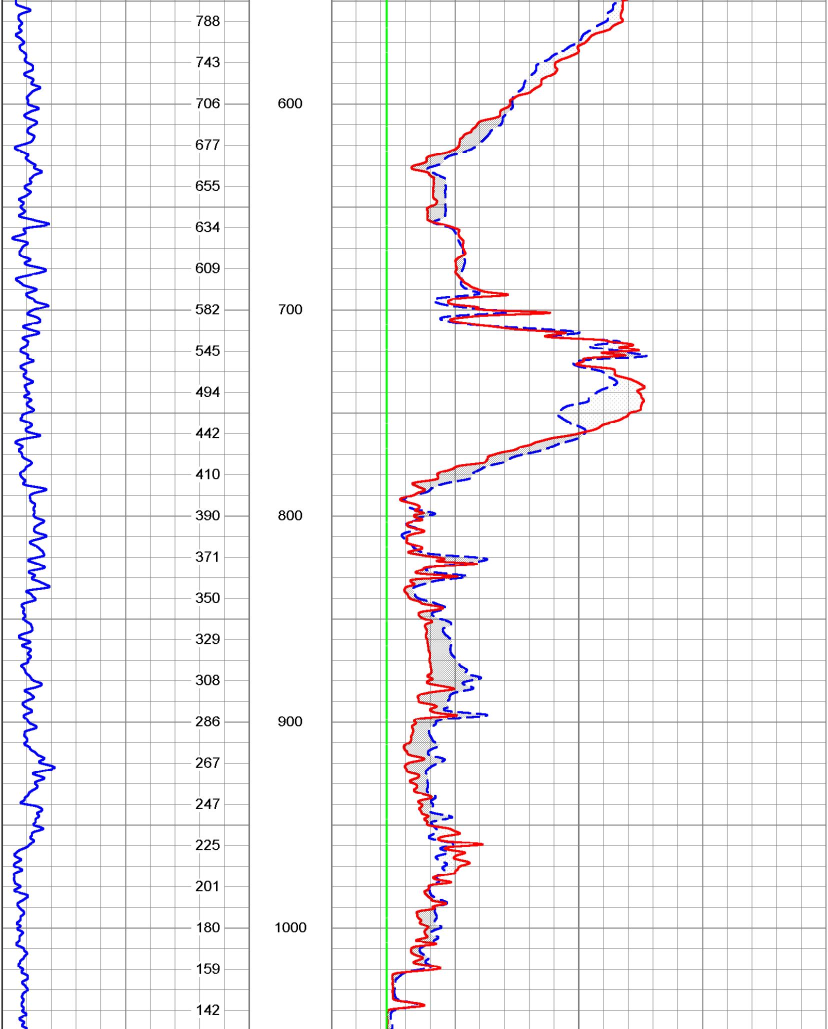
MV Geophysical

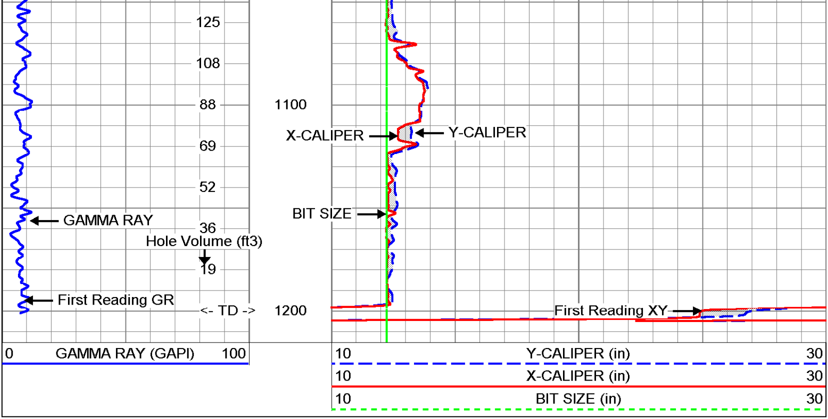
MAIN PASS

Database File: ftoho-a1.db
Dataset Pathname: MAIN
Presentation Format: XY1030-5
Dataset Creation: Wed Sep 16 11:08:44 2009
Charted by: Depth in Feet scaled 1:600





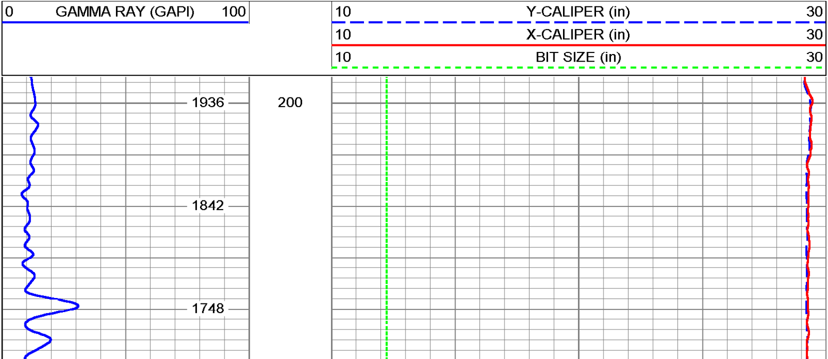


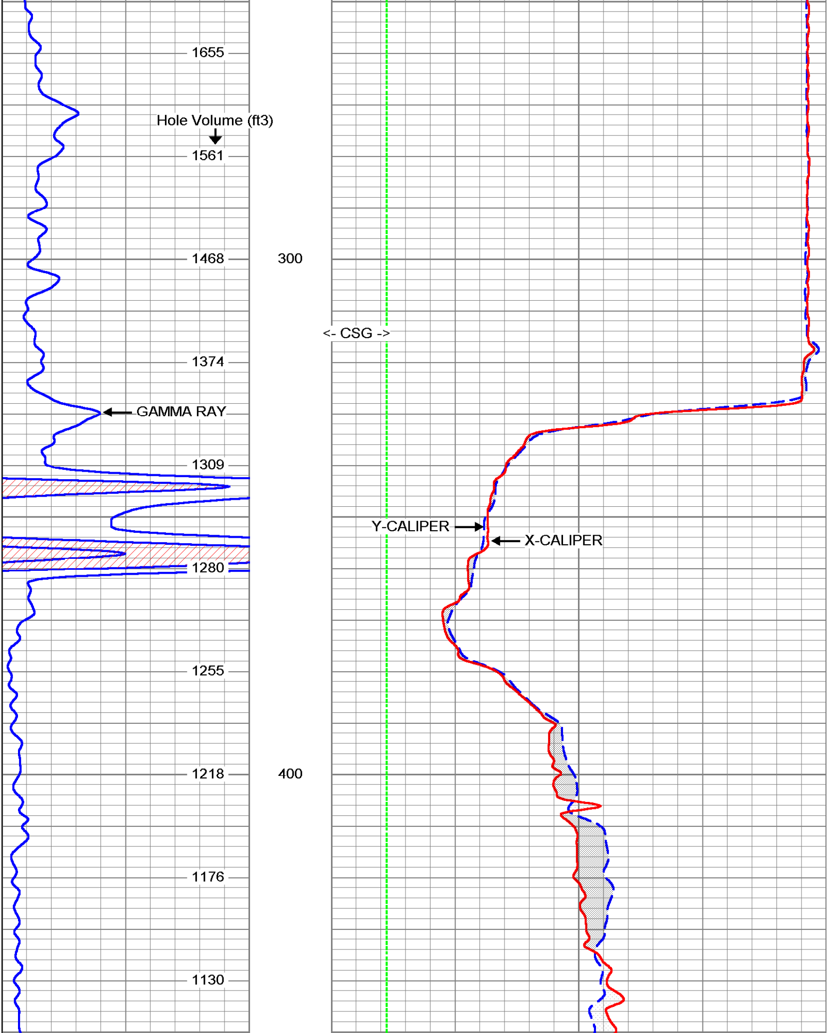


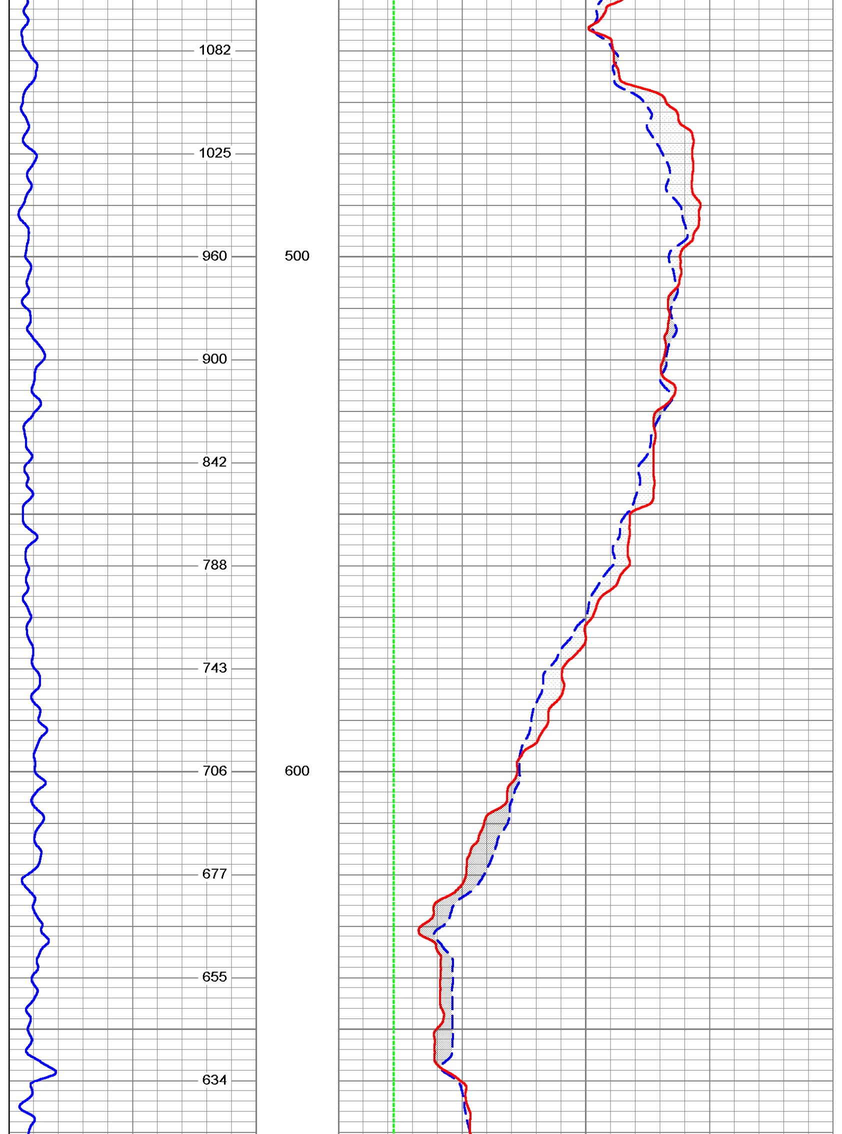
MV
Geophysical

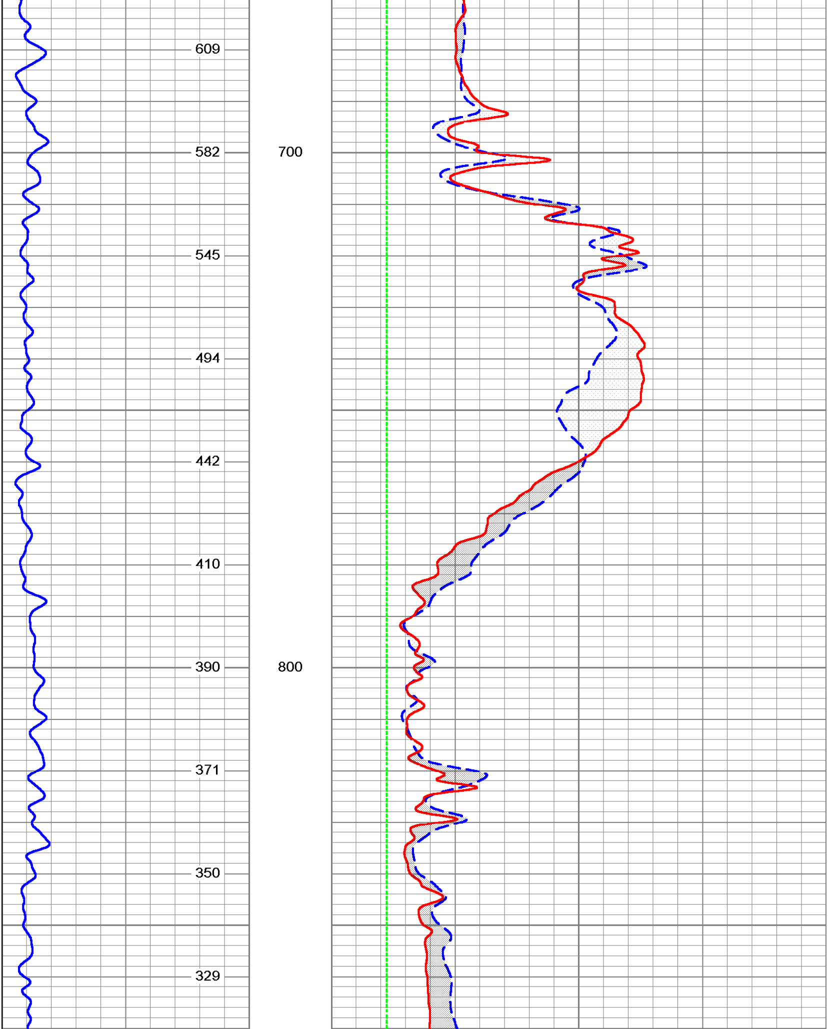
MAIN PASS

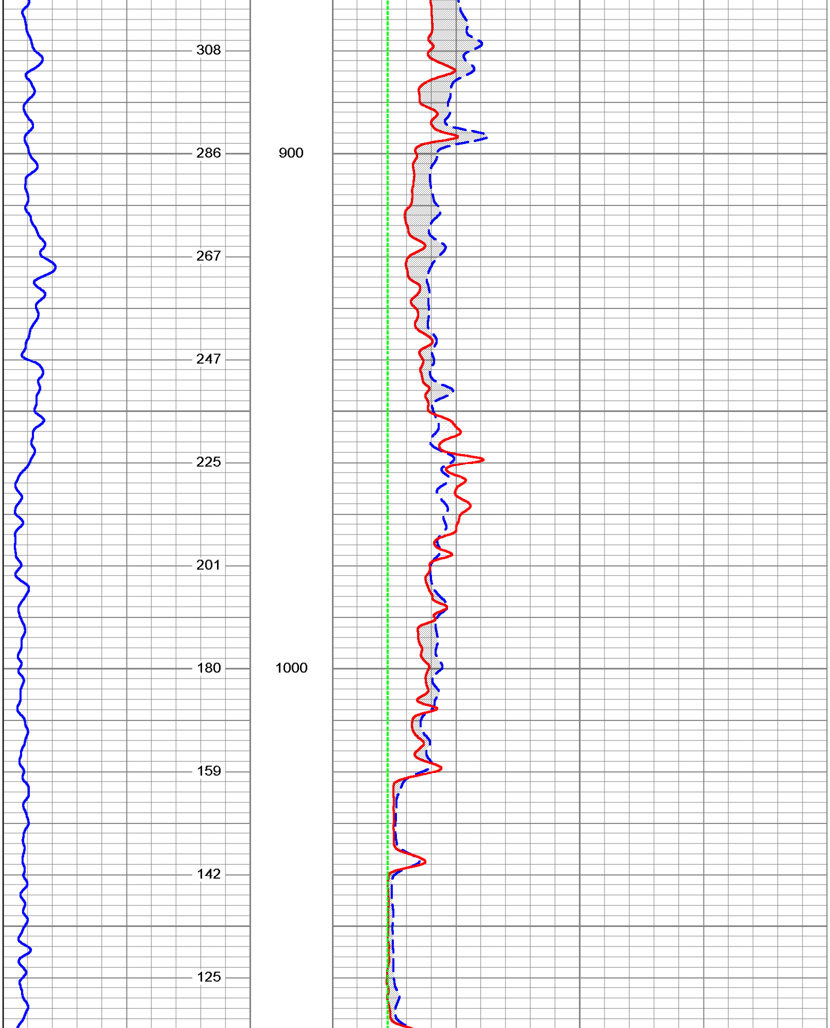
Database File:	ftoho-a1.db
Dataset Pathname:	MAIN
Presentation Format:	XY1030-5
Dataset Creation:	Wed Sep 16 11:08:44 2009
Charted by:	Depth in Feet scaled 1:240

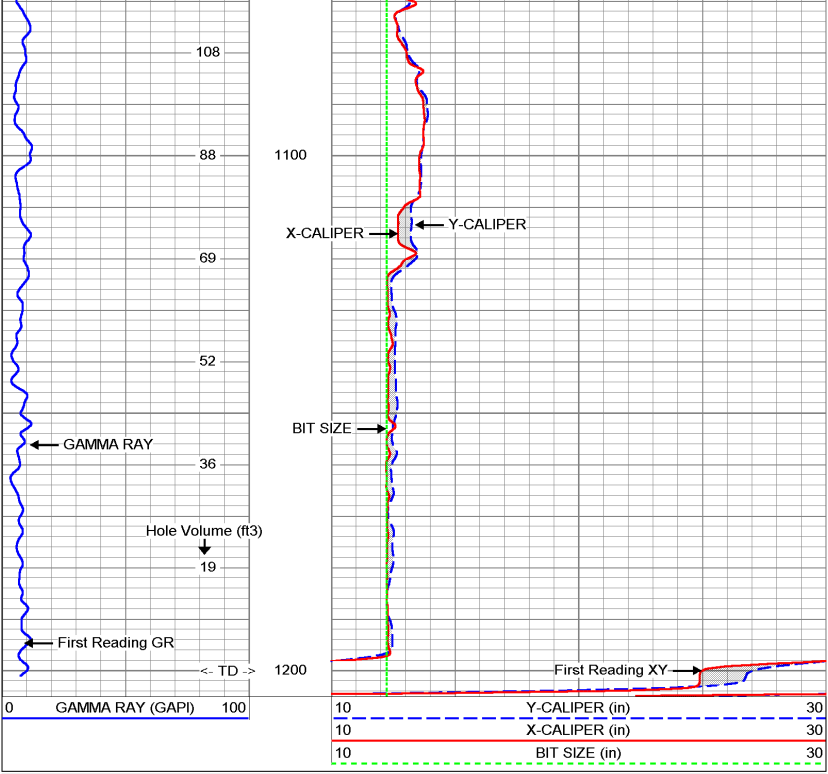










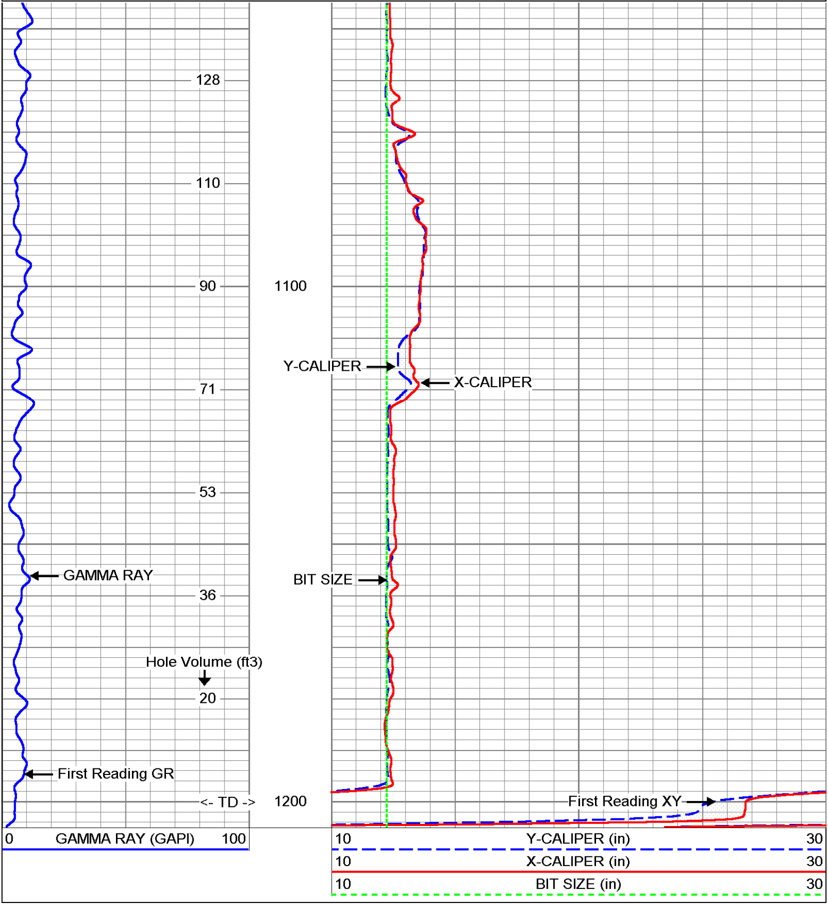


MV
Geophysical

REPEAT SECTION

Database File: ftoho-a1.db
Dataset Pathname: REPEAT
Presentation Format: XY1030-5
Dataset Creation: Wed Sep 16 10:45:02 2009
Charted by: Depth in Feet scaled 1:240

0 GAMMA RAY (GAPI) 100
10 Y-CALIPER (in) 30
10 X-CALIPER (in) 30
10 BIT SIZE (in) 30



XY Caliper Calibration Report

Serial Number:	01S		
Tool Model:	XYCS		
Performed:	Wed Sep 16 10:49:02 2009		
Small Ring:	12.25	in	
Large Ring:	29.25	in	
	X Caliper	Y Caliper	
Reading with Small Ring:	739.3	739.7	cps
Reading with Large Ring:	1010.7	1011.5	cps
Gain:	0.0626382	0.062546	
Offset:	-34.0584	-34.0153	

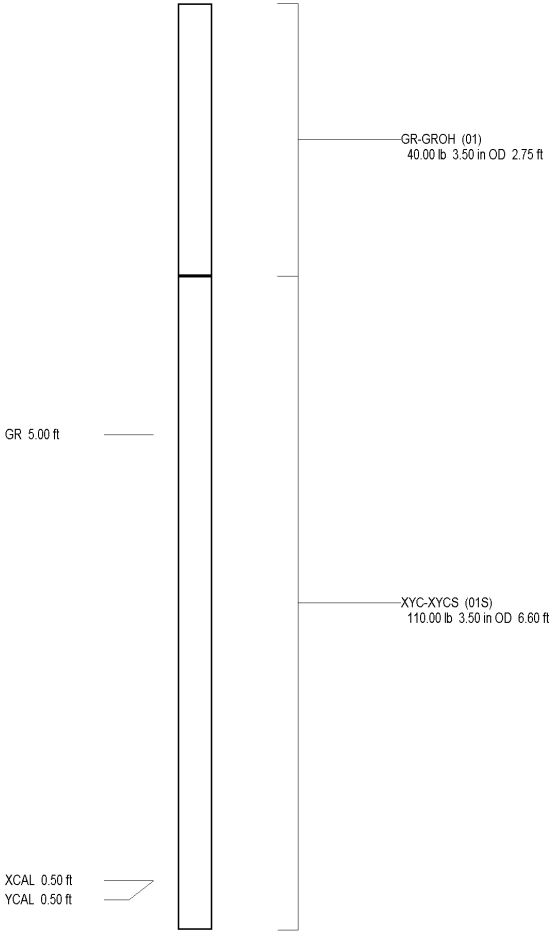
Gamma Ray Calibration Report

Serial Number: 01
Tool Model: GROH
Performed: Wed Sep 16 09:43:16 2009

Calibrator Value: 120 GAPI

Background Reading: 14.895 cps
Calibrator Reading: 126.691 cps

Sensitivity: 1.07338 GAPI/cps



Dataset: run1/pass4
Total Length: 9.35 ft
Total Weight: 150.00 lb
O.D. 3.50 in

MV Geophysical

BOREHOLE COMPENSATED SONIC w/ VARIABLE DENSITY LOG

Company Florida Design Drilling Corp.
Well Chapman TPW-A1
Field Kenansville
County Osceola
State/Prv Florida

Company	Florida Design Drilling Corp.
Well	Chapman TPW-A1
Field	Kenansville
County	Osceola
State/Prv	Florida

Location
TOHO Water Authority - Site A
4397 Canoe Creek Road, Kenansville, FL 34739
Tetra Tech / SFWMD

Other Services
XY/GR,BHC
DIL/SP,FCT
FLOW,DHTV

Permanent Datum	Ground Level	Elevation
Log Measured From	Ground Level	
Drilling Measured From	Ground Level	

Elevation
K.B.
D.F.
G.L.

Date	18-SEP-2009		
Run Number	ONE		
Depth Driller	1200'		
Depth Logger	1200'		
Bottom Logged Interval	1192'		
Top Log Interval	300'		
Open Hole Size	12.25"		
Type Fluid	H2O		
Density / Viscosity	na/na		
Max. Recorded Temp.	see FCT log		
Estimated Cement Top	na		
Time Well Ready	08:30 9/18/09		
Time Logger on Bottom	12:15 9/18/09		
Equipment Number	MVGS-1		
Location	FTM		
Recorded By	S.Miller / C.Miller		
Witnessed By	B.Lafrenz (TT)	D.Ringdahl (FDD)	E.Richardson (SFWMD)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	315'	1200'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	30"	0.375" WT	SURFACE	315'
Prot. String				
Production String				
Liner			ftoho-a1.db	6x
Invoice No.:	2009136	P.O. #: 4920	FDD Job #: 4920	* FINAL PRINT *

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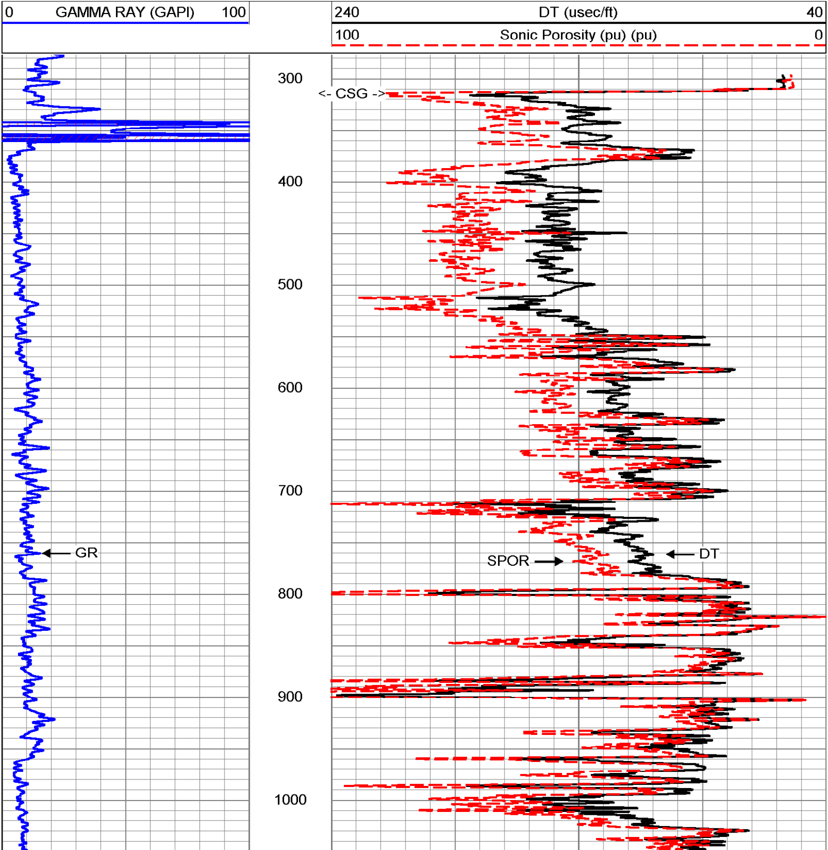
Comments

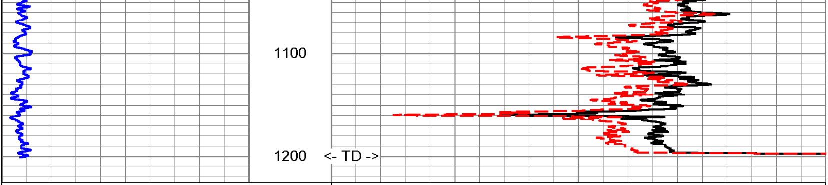
Sonic Porosity was run on a Limestone Matrix (=47.5)

MV Geophysical

MAIN PASS

Database File: ftoho-a1.db
Dataset Pathname: MAIN
Presentation Format: DTG-11
Dataset Creation: Wed Sep 16 11:08:44 2009
Charted by: Depth in Feet scaled 1:1200





0 GAMMA RAY (GAPI) 100

240 DT (usec/ft) 40

100 Sonic Porosity (pu) (pu) 0

MV Geophysical

MAIN PASS

Database File:	ftoho-a1.db
Dataset Pathname:	MAIN
Presentation Format:	DTXY1030
Dataset Creation:	Wed Sep 16 11:08:44 2009
Charted by:	Depth in Feet scaled 1:600

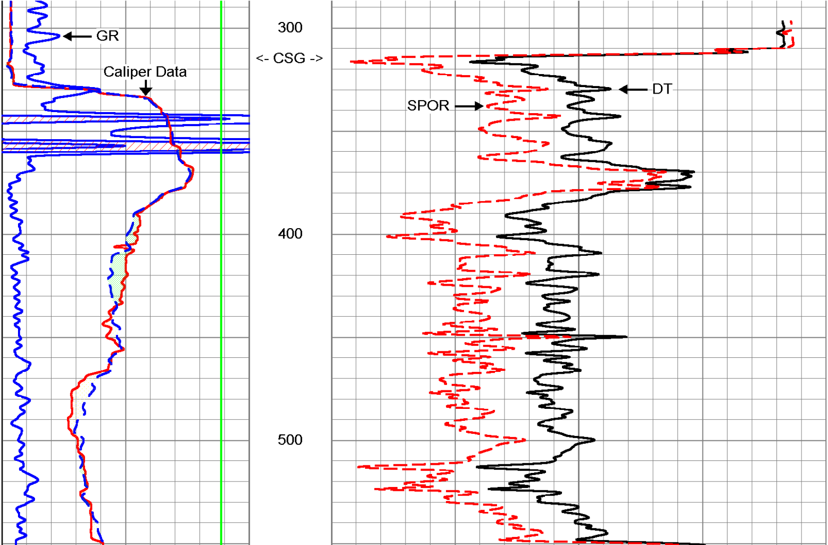
0 GAMMA RAY (GAPI) 100

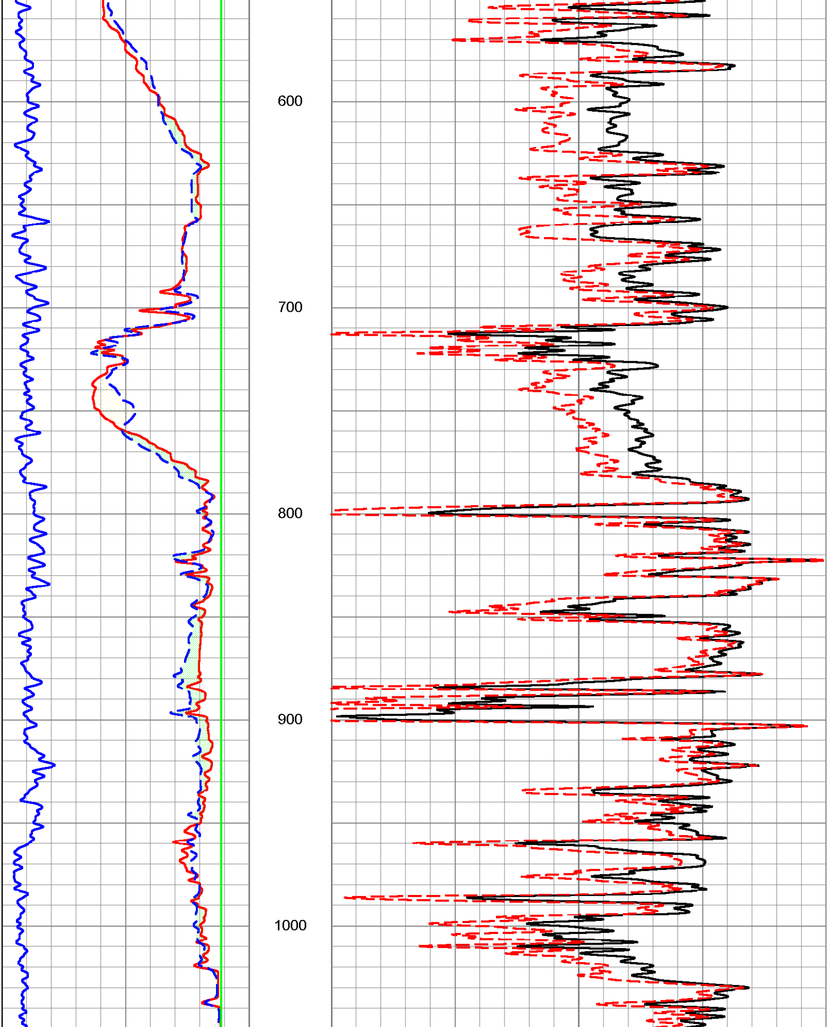
30 XCAL (in) 10

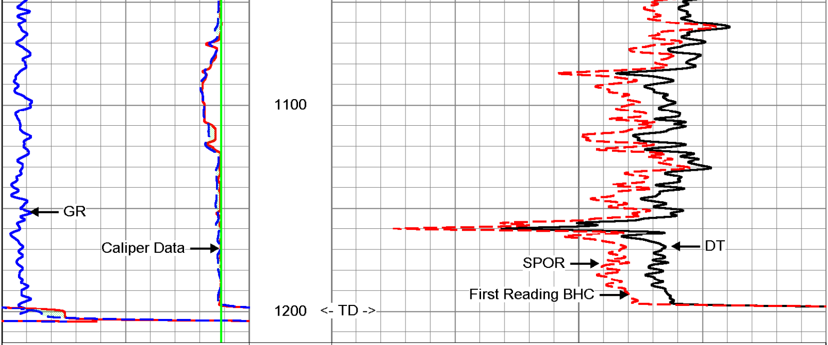
30 YCAL (in) 10

240 DT (usec/ft) 40

100 Sonic Porosity (pu) (pu) 0







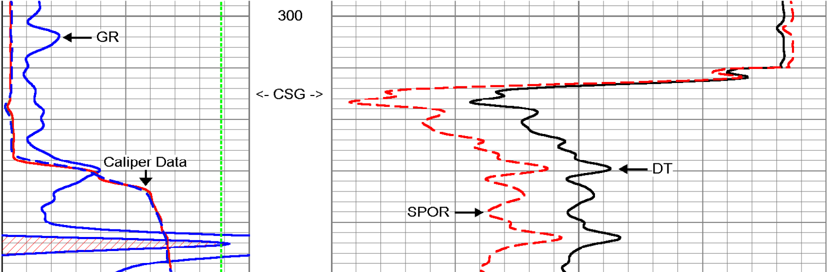
0 GAMMA RAY (GAPI) 100	240 DT (usec/ft) 40
30 XCAL (in) 10	100 Sonic Porosity (pu) (pu) 0
30 YCAL (in) 10	

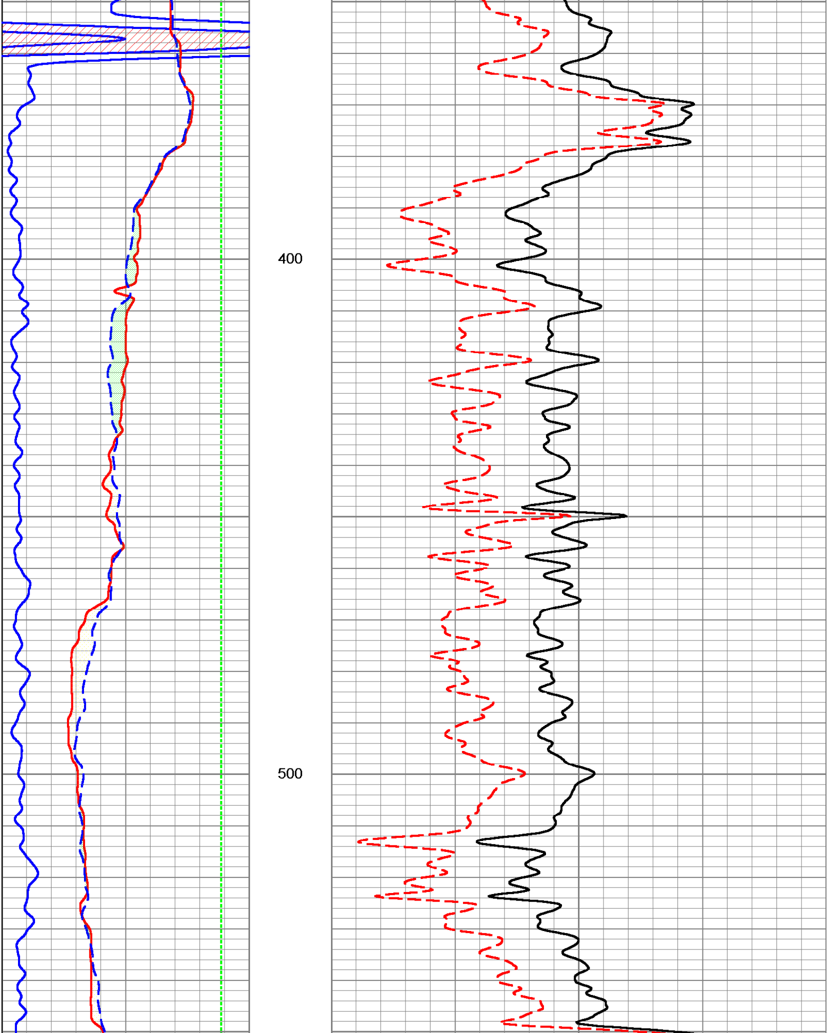
MV Geophysical

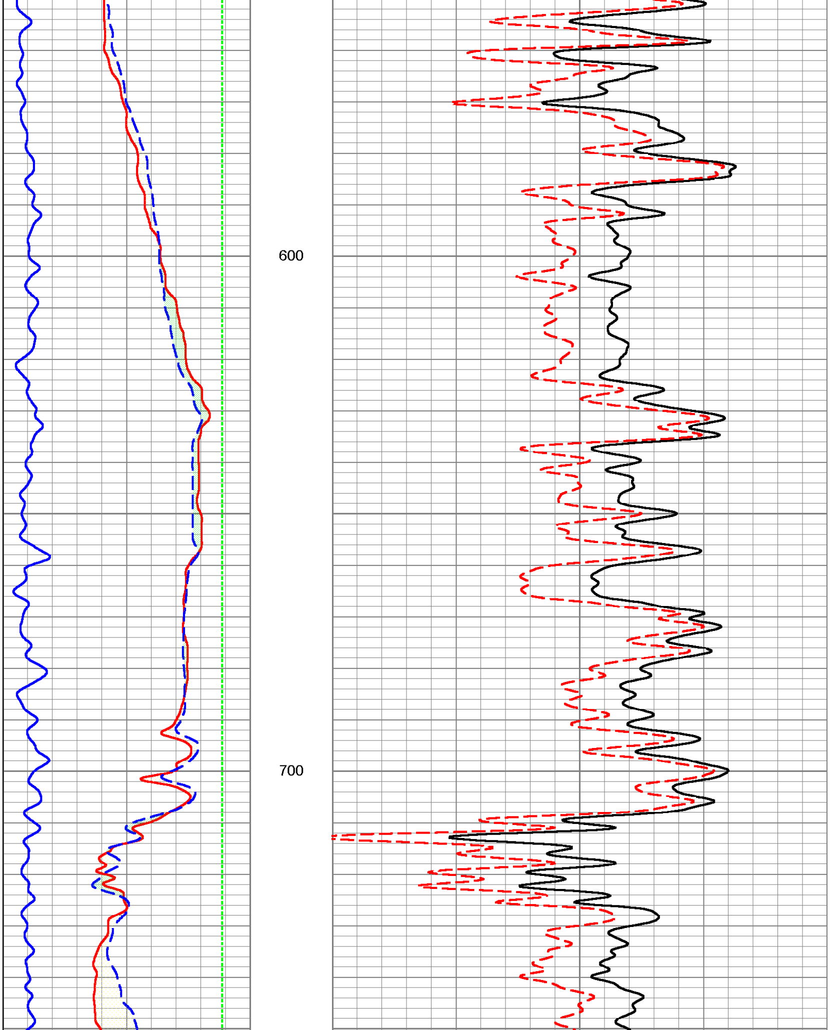
MAIN PASS

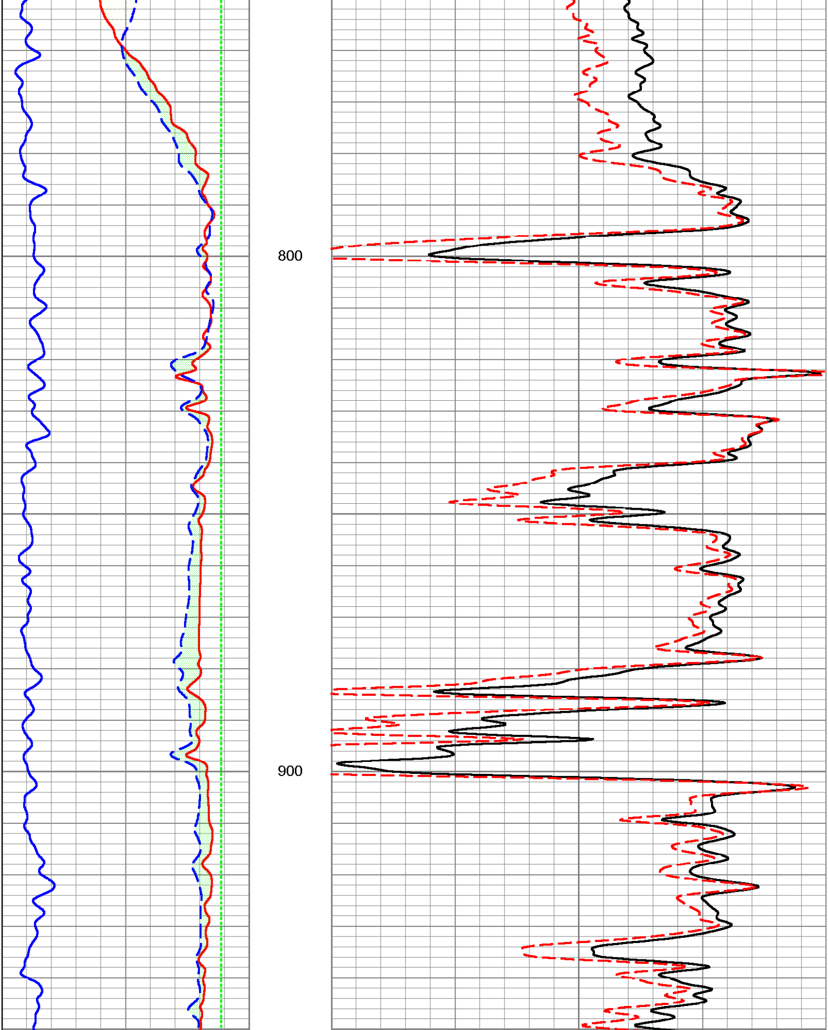
Database File:	ftoho-a1.db
Dataset Pathname:	MAIN
Presentation Format:	DTXY1030
Dataset Creation:	Wed Sep 16 11:08:44 2009
Charted by:	Depth in Feet scaled 1:240

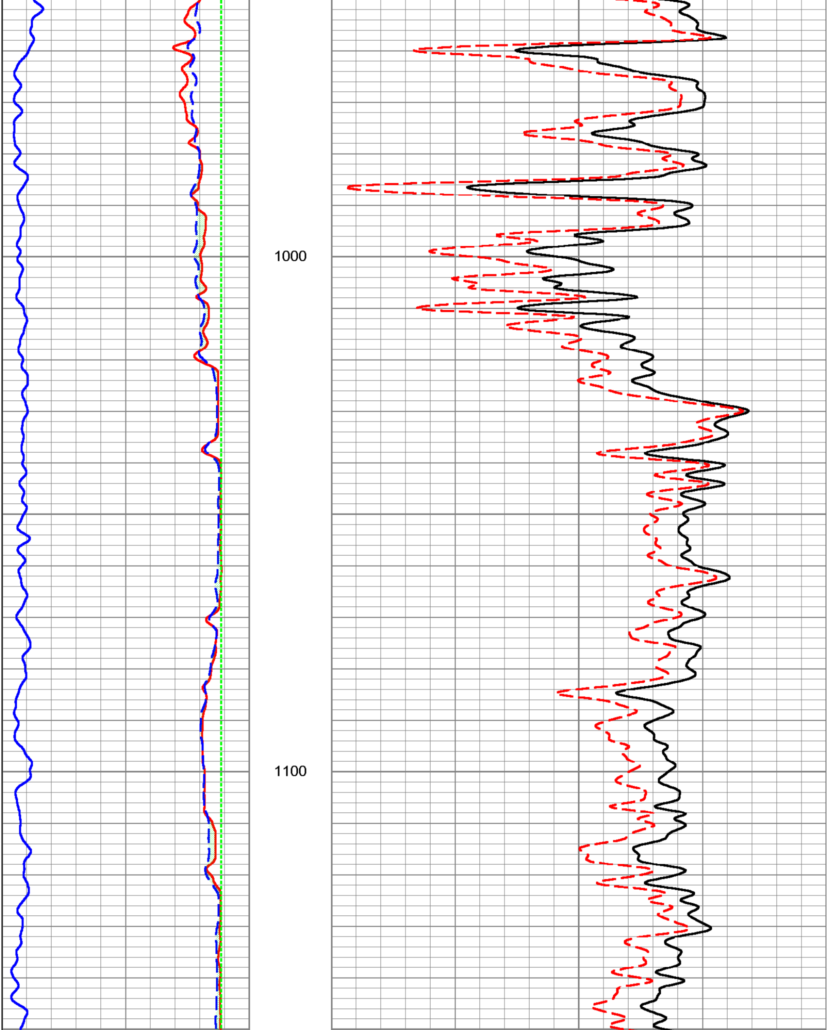
0 GAMMA RAY (GAPI) 100	240 DT (usec/ft) 40
30 XCAL (in) 10	100 Sonic Porosity (pu) (pu) 0
30 YCAL (in) 10	

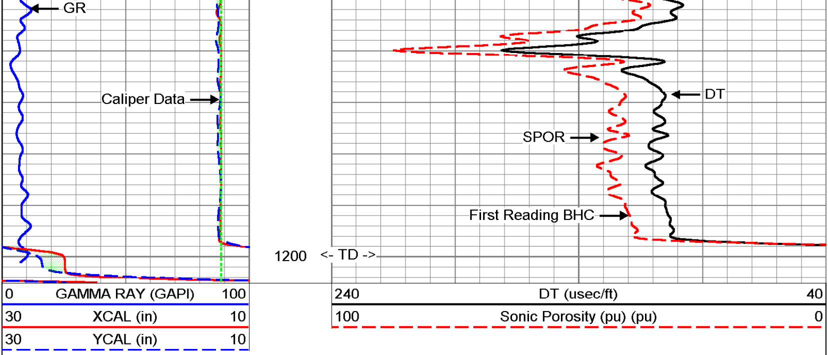








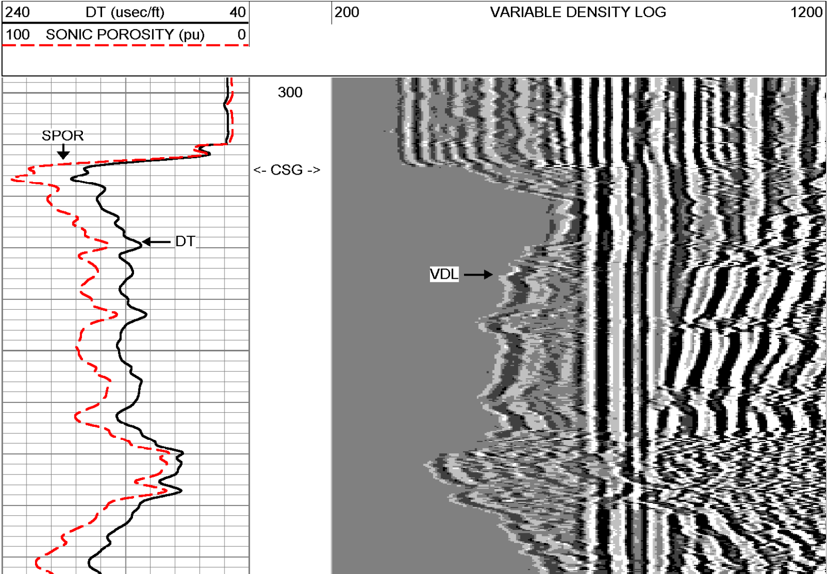


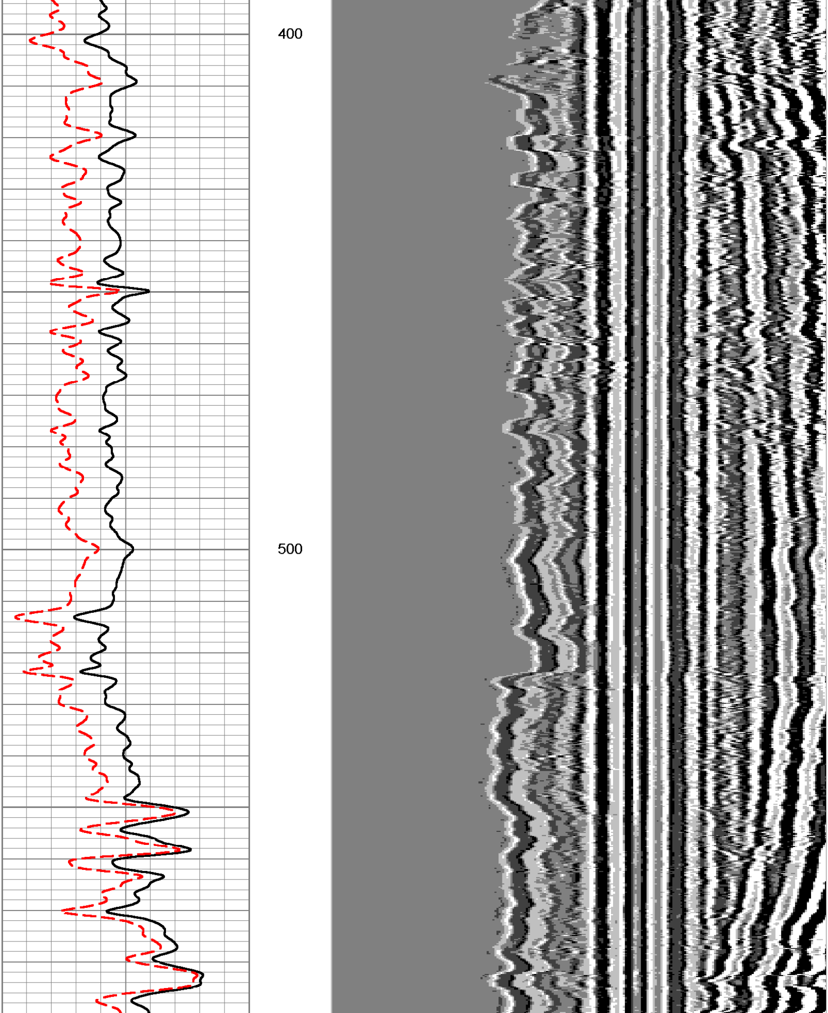


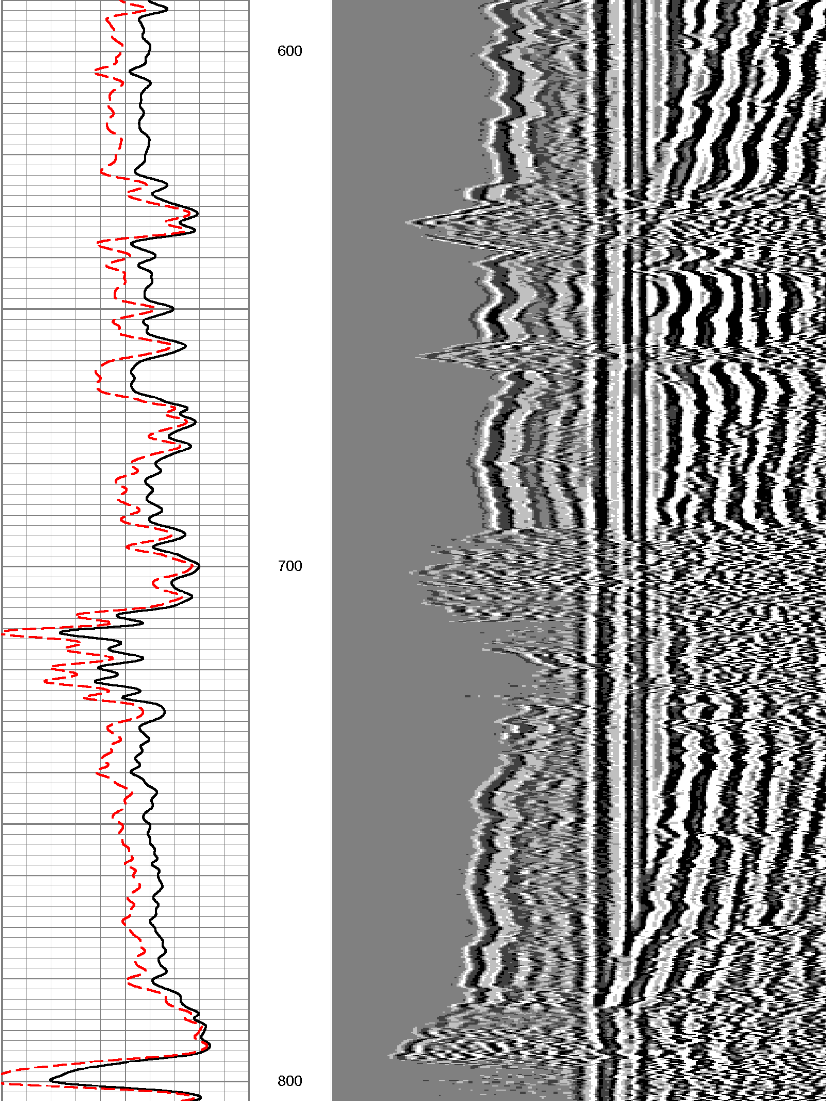
MV Geophysical

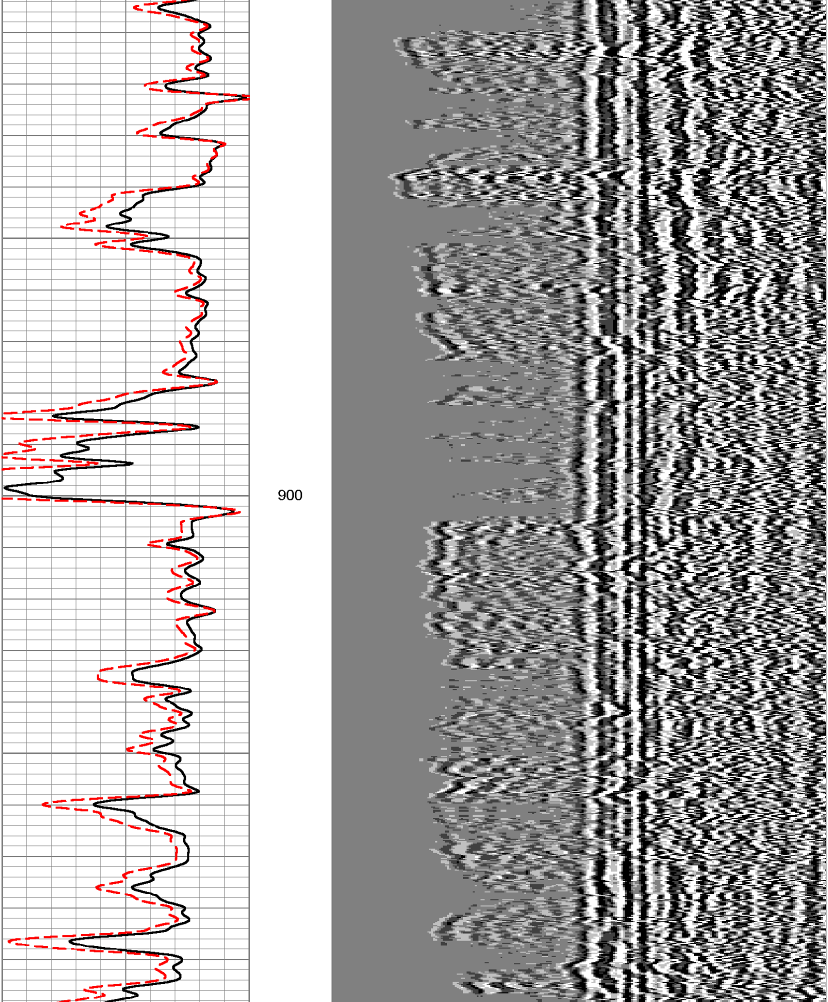
MAIN PASS

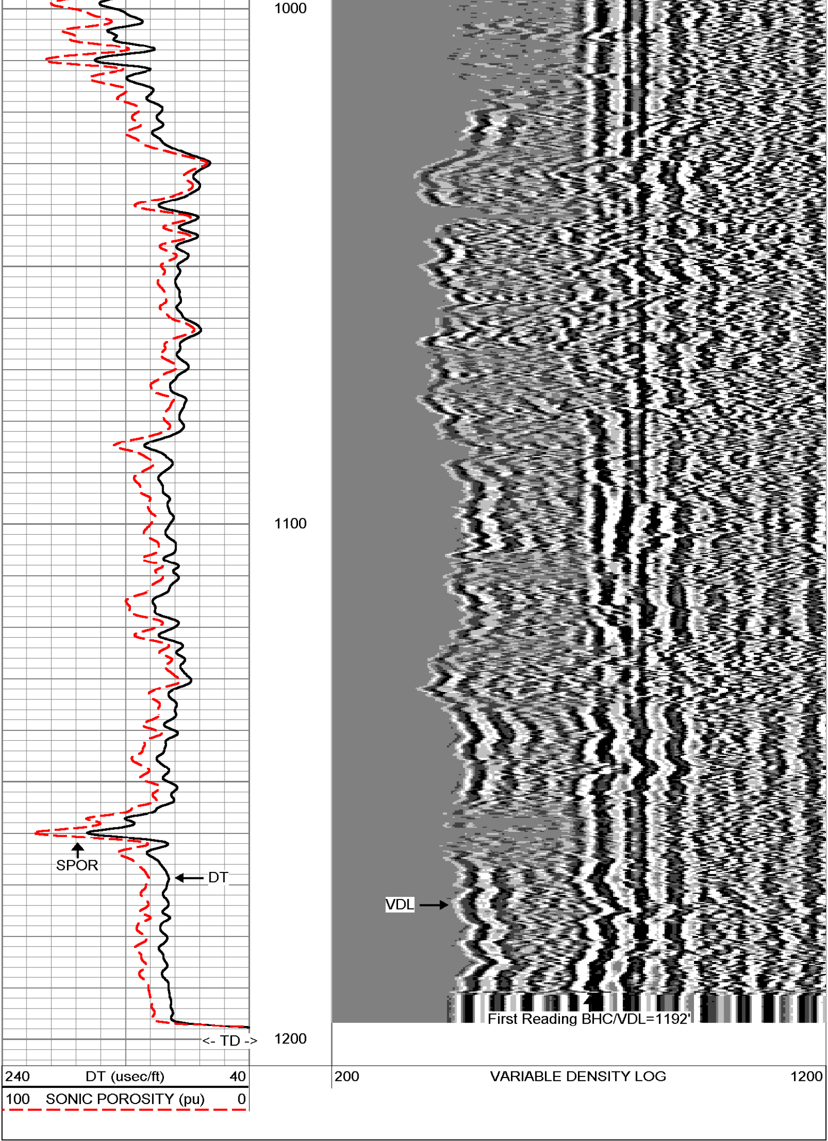
Database File: ftoho-a1.db
Dataset Pathname: MAIN
Presentation Format: SON_VDL
Dataset Creation: Wed Sep 16 11:08:44 2009
Charted by: Depth in Feet scaled 1:240







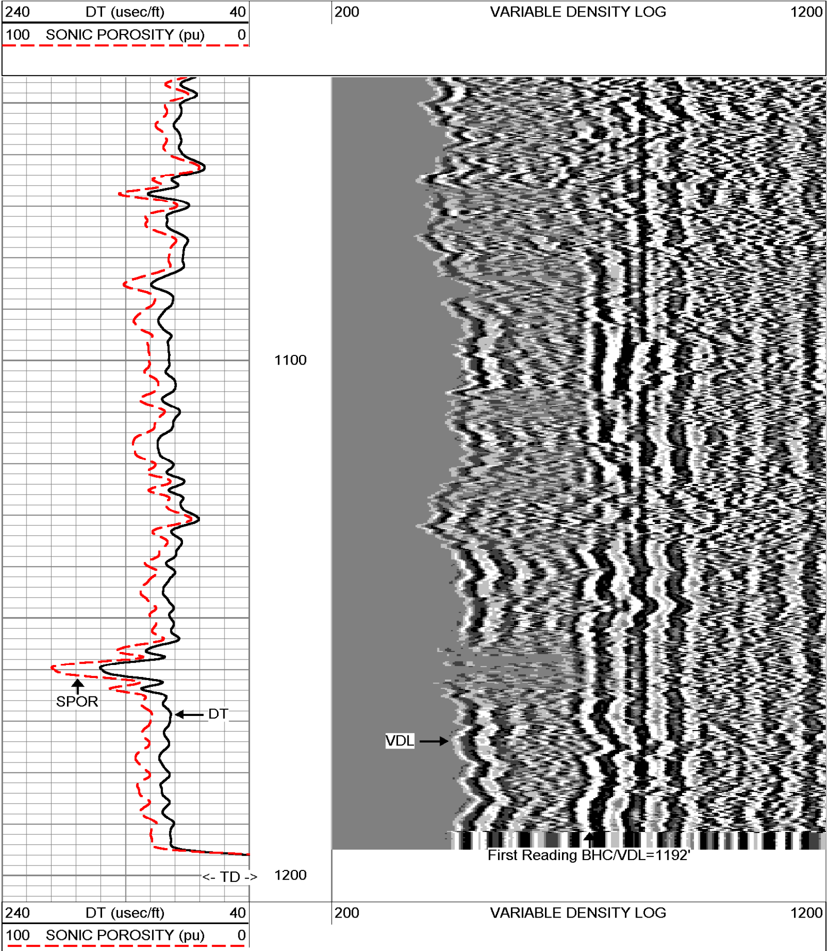


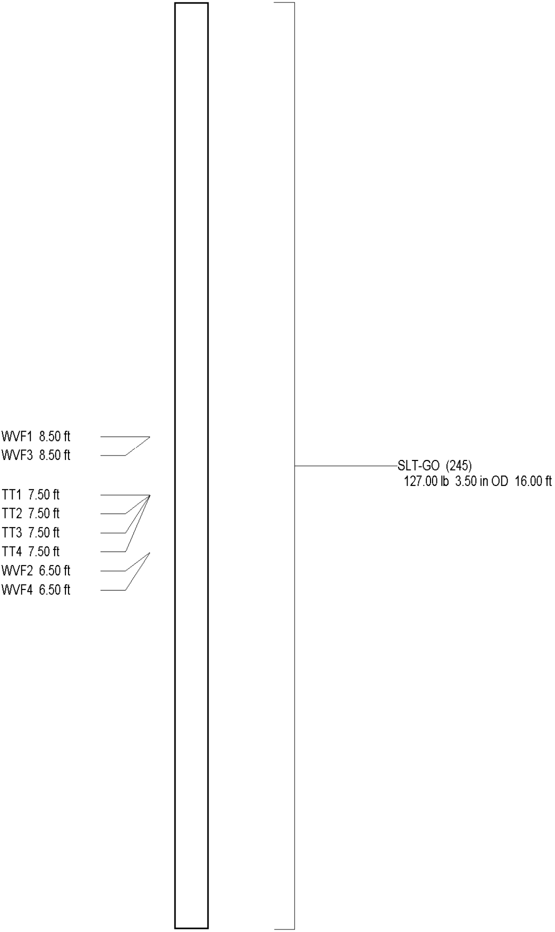


MV Geophysical

REPEAT SECTION

Database File: ftoho-a1.db
Dataset Pathname: REPEAT
Presentation Format: SON_VDL
Dataset Creation: Wed Sep 16 10:45:02 2009
Charted by: Depth in Feet scaled 1:240





Dataset:	run1/pass11
Total Length:	16.00 ft
Total Weight:	127.00 lb
O.D.	3.50 in

MV Geophysical

DUAL INDUCTION
LL3 / SP
LOG

Company Florida Design Drilling Corp.
Well Chapman TPW-A1
Field Kenansville
County Osceola
State/Prv Florida

Company	Florida Design Drilling Corp.
Well	Chapman TPW-A1
Field	Kenansville
County	Osceola State/Prv Florida

Location
TOHO Water Authority - Site A
4397 Canoe Creek Road, Kenansville, FL 34739
Tetra Tech / SFWMD

Other Services
XY/GR,BHC
DIL/SP,FCT
FLOW,DHTV

		Elevation
Permanent Datum	Ground Level	
Log Measured From	Ground Level	
Drilling Measured From	Ground Level	

Elevation
K.B.
D.F.
G.L.

Date	18-SEP-2009		
Run Number	ONE		
Depth Driller	1200'		
Depth Logger	1200'		
Bottom Logged Interval	1198'		
Top Log Interval	315'		
Open Hole Size	12.25"		
Type Fluid	H2O		
Density / Viscosity	na/na		
Max. Recorded Temp.	see FCT log		
Estimated Cement Top	na		
Time Well Ready	08:30 9/18/09		
Time Logger on Bottom	11:00 9/18/09		
Equipment Number	MVGS-1		
Location	FTM		
Recorded By	S.Miller / C.Miller		
Witnessed By	B.Lafrenz (TT)	D.Ringdahl (FDD)	E.Richardson (SFWMD)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	315'	1200'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	30"	0.375" WT	SURFACE	315'
Prot. String				
Production String				
Liner			ftoho-a1.db	6x
Invoice No.:	2009136	P.O. #: 4920	FDD Job #: 4920	* FINAL PRINT *

<<< Fold Here >>>

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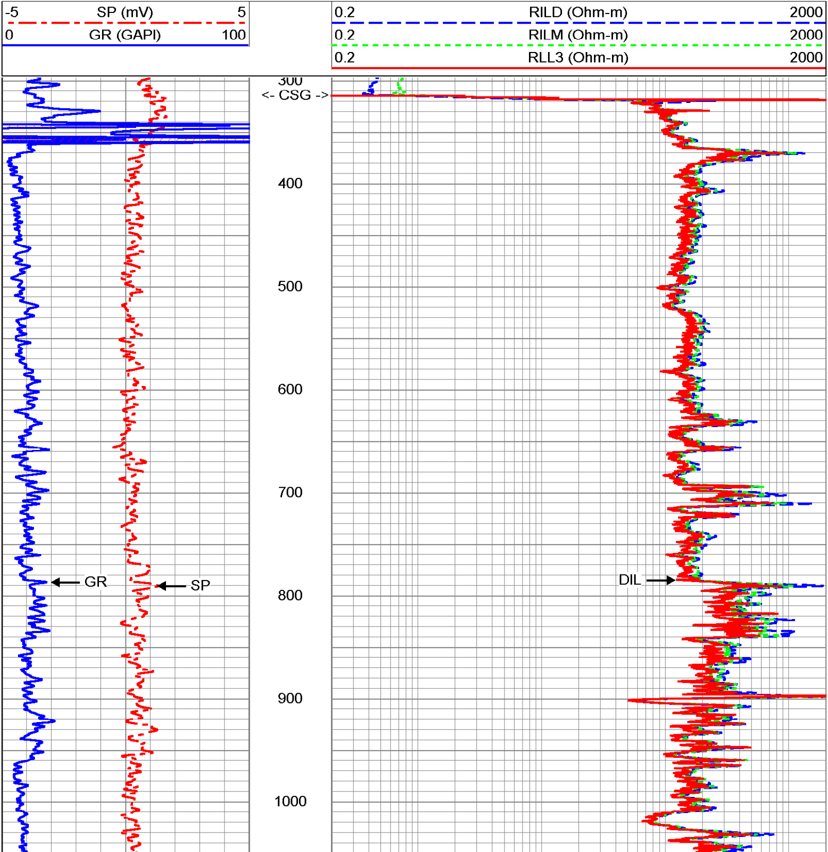
Comments

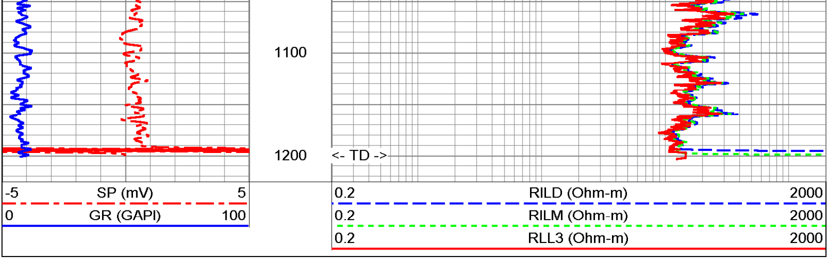
Rw=22.321 ohm-m @ 78.1 degF

MV Geophysical

MAIN PASS

Database File: ftoho-a1.db
Dataset Pathname: MAIN
Presentation Format: DIL-1
Dataset Creation: Wed Sep 16 11:08:44 2009
Charted by: Depth in Feet scaled 1:1200

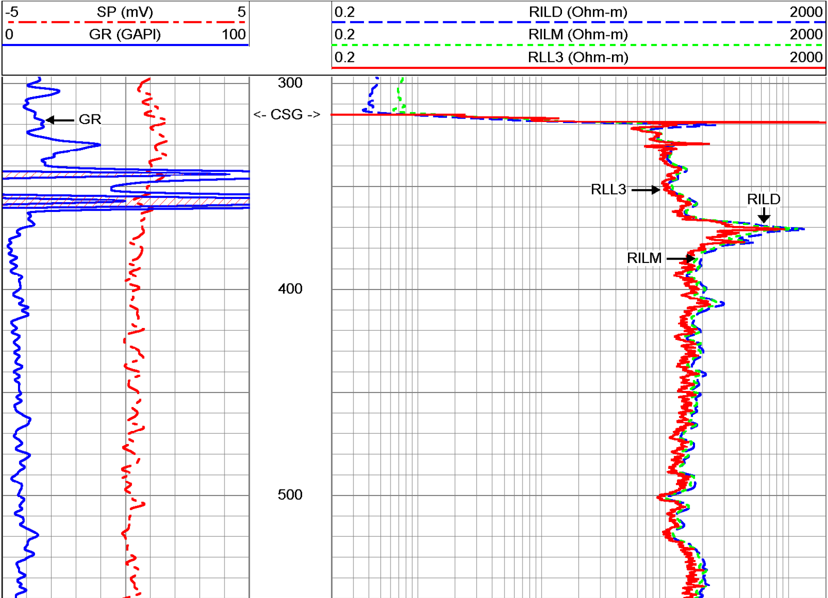


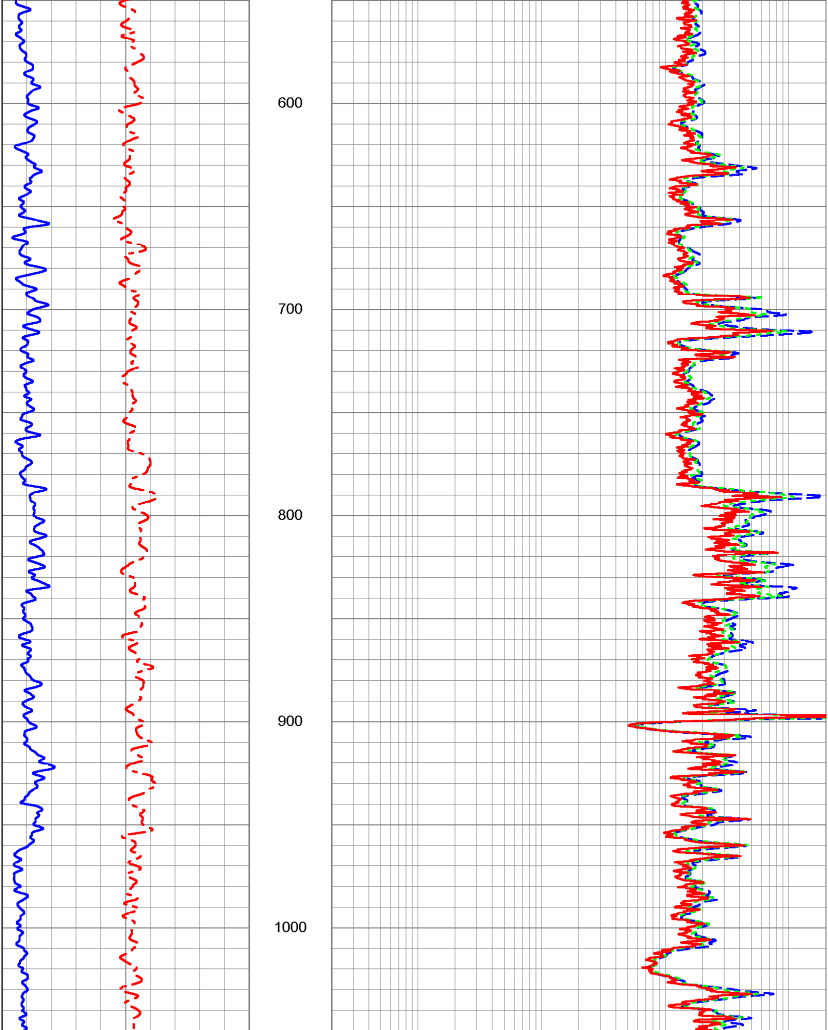


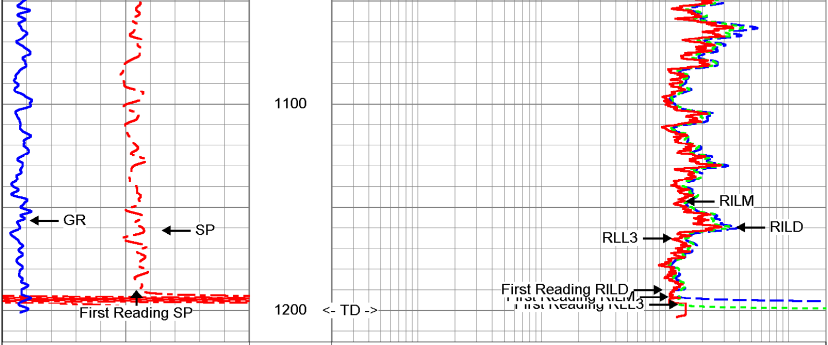
MV Geophysical

MAIN PASS

Database File:	ftoho-a1.db
Dataset Pathname:	MAIN
Presentation Format:	DIL-5
Dataset Creation:	Wed Sep 16 11:08:44 2009
Charted by:	Depth in Feet scaled 1:600







-5 SP (mV) 5
0 GR (GAPI) 100

0.2 RILD (Ohm-m) 2000
0.2 RILM (Ohm-m) 2000
0.2 RLL3 (Ohm-m) 2000

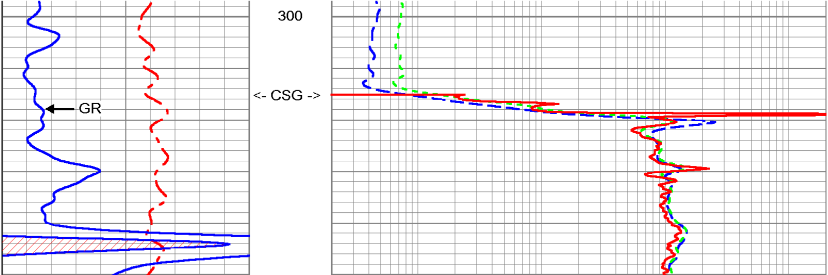
MV
Geophysical

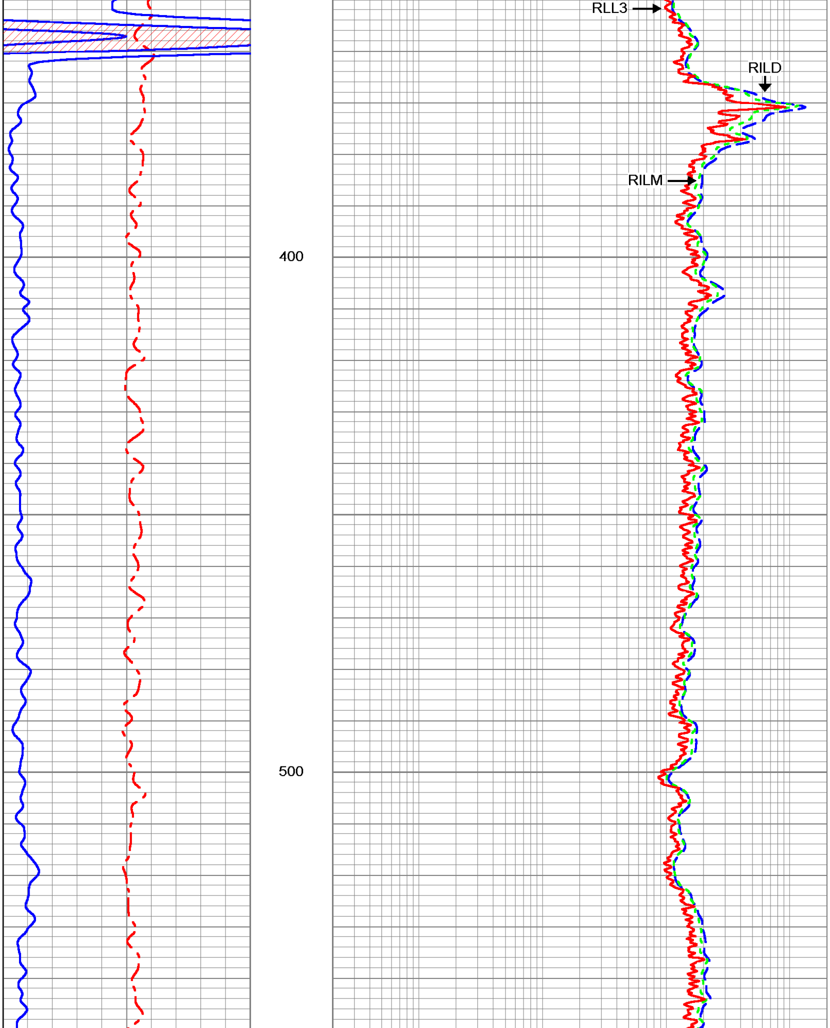
MAIN PASS

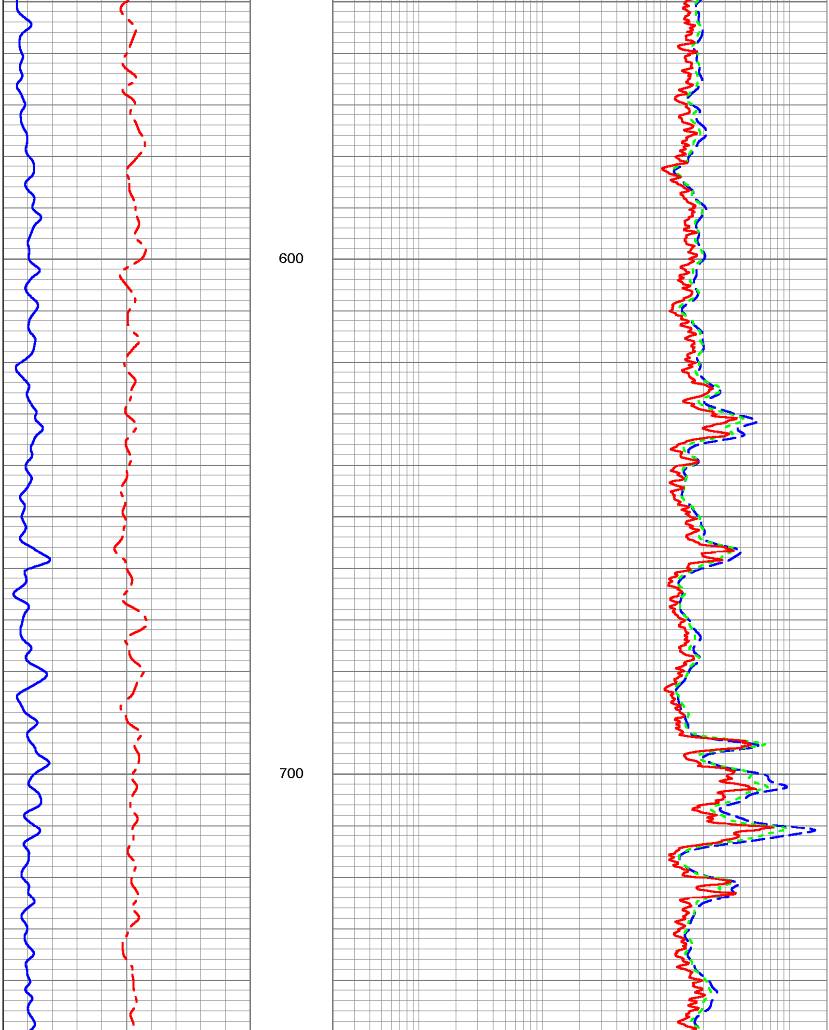
Database File: ftoho-a1.db
Dataset Pathname: MAIN
Presentation Format: DIL-5
Dataset Creation: Wed Sep 16 11:08:44 2009
Charted by: Depth in Feet scaled 1:240

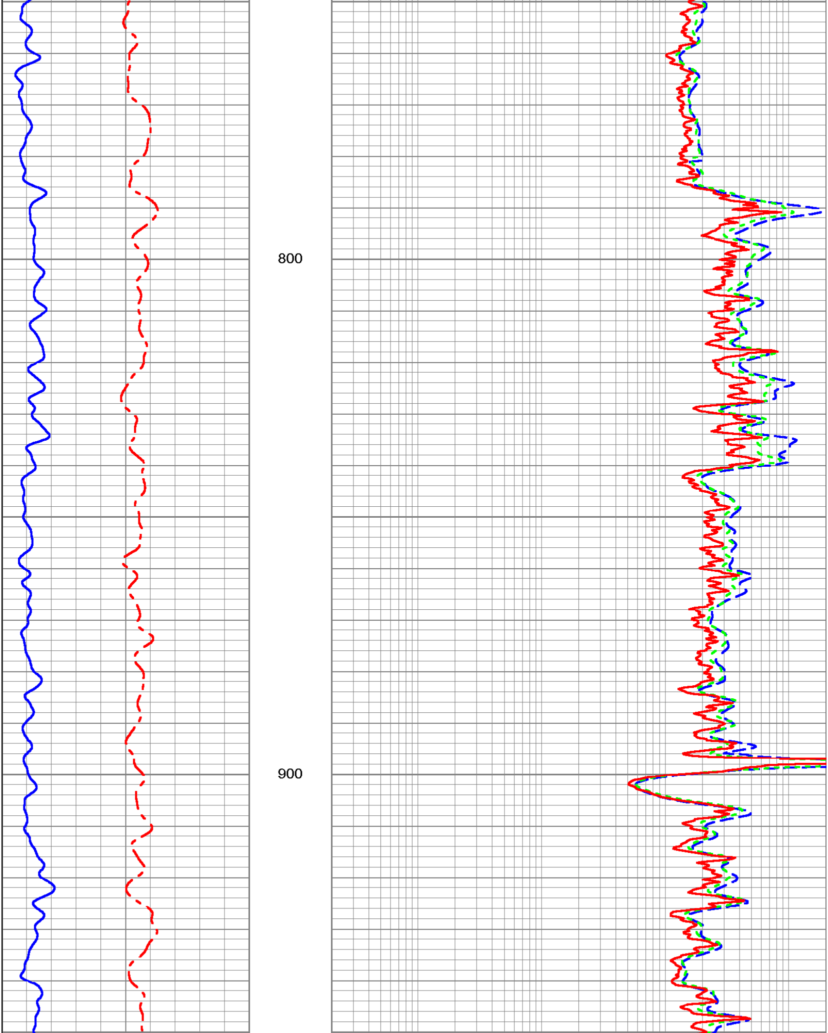
-5 SP (mV) 5
0 GR (GAPI) 100

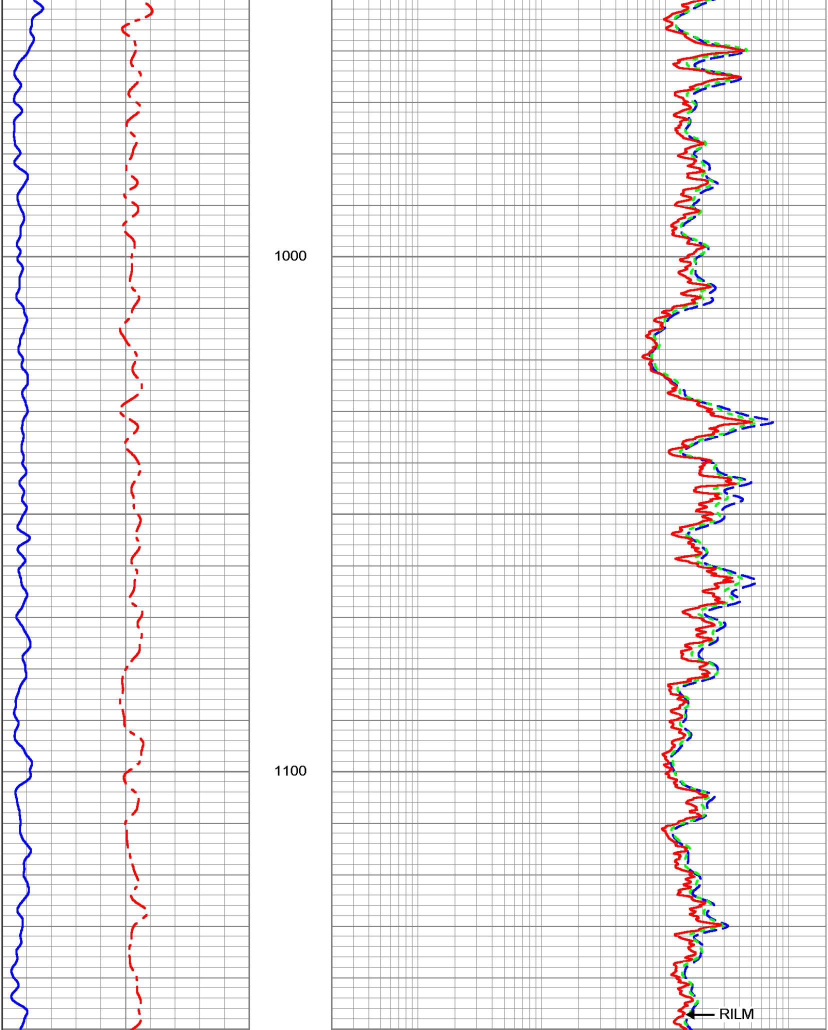
0.2 RILD (Ohm-m) 2000
0.2 RILM (Ohm-m) 2000
0.2 RLL3 (Ohm-m) 2000

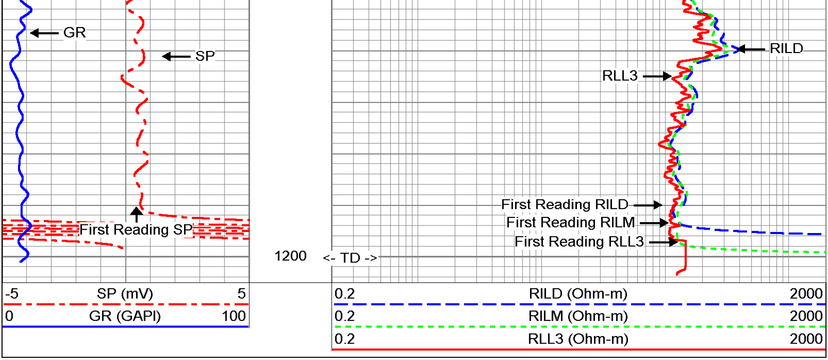








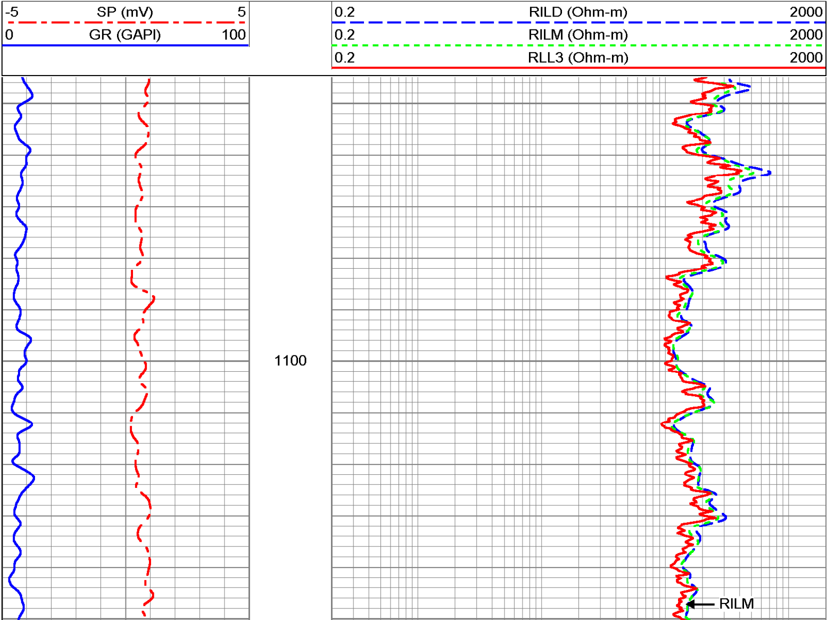


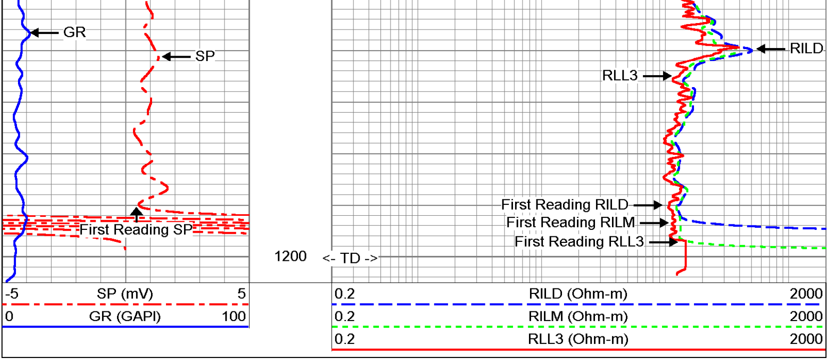


MV Geophysical

REPEAT SECTION

Database File:	ftoho-a1.db
Dataset Pathname:	REPEAT
Presentation Format:	DIL-5
Dataset Creation:	Wed Sep 16 10:45:02 2009
Charted by:	Depth in Feet scaled 1:240





Dual Induction Calibration Report

Serial-Model:	5390-R
Surface Cal Performed:	Thu Nov 15 11:21:40 2007
Downhole Cal Performed:	Wed Mar 15 11:08:57 2006
After Survey Verification Performed:	Thu Nov 15 11:21:50 2007

Surface Calibration

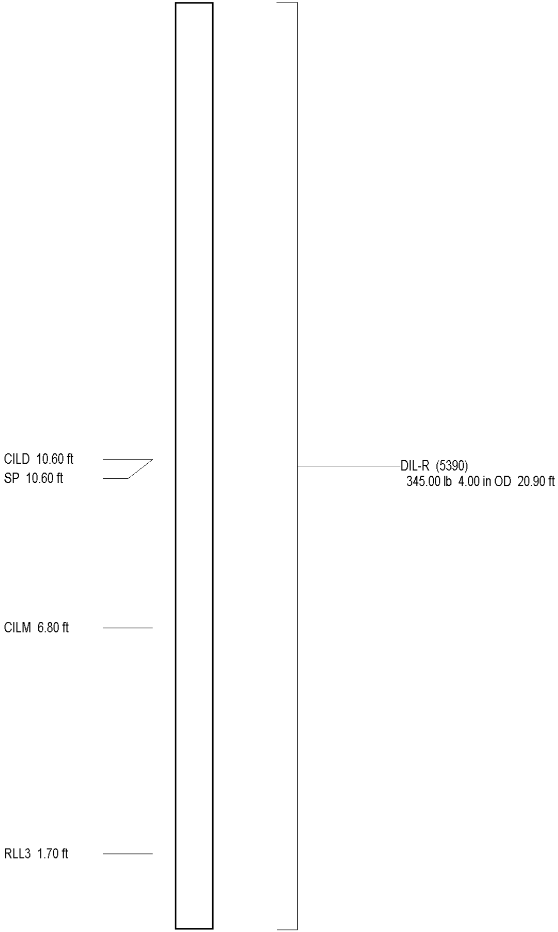
	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.050	0.646	V	0.000	400.000	mmho-m	671.771	-33.646
Medium	0.001	0.732	V	0.000	464.000	mmho-m	634.710	-0.492
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.641	V	0.000	400.000	mmho-m	634.996	-7.104
Medium	-0.009	0.738	V	0.000	464.000	mmho-m	620.900	5.734

Downhole Calibration

	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	-26.499	398.282	mmho-m	-26.130	397.036	mmho-m	0.996	0.268
Medium	-5.803	469.733	mmho-m	-6.353	467.967	mmho-m	0.997	-0.565
Shallow	2.503	0.010	V	494.500	2.000	Ohm-m	197.536	0.029

After Survey Verification

	Readings			Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	-26.151	398.470	mmho-m	-26.499	398.282	mmho-m	0.996	0.268
Medium	-5.737	470.303	mmho-m	-5.803	469.733	mmho-m	0.997	-0.565
Shallow	567.058	128.961	Ohm-m	494.500	2.000	Ohm-m	1.124	-142.975



Dataset: run1/pass7
Total Length: 20.90 ft
Total Weight: 345.00 lb
O.D. 4.00 in

MV Geophysical

FLUID CONDUCTIVITY TEMPERATURE LOG

Company	Florida Design Drilling Corp.
Well	Chapman TPW-A1
Field	Kenansville
County	Osceola
State/Prv	Florida

Company	Florida Design Drilling Corp.		
Well	Chapman TPW-A1		
Field	Kenansville		
County	Osceola	State/Prv	Florida

Location
TOHO Water Authority - Site A
4397 Canoe Creek Road, Kenansville, FL 34739
Tetra Tech / SFWMD

Other Services
XY/GR,BHC
DIL/SP,FCT
FLOW,DHTV

Permanent Datum	Ground Level	Elevation	
Log Measured From	Ground Level		
Drilling Measured From	Ground Level		

Elevation
K.B.
D.F.
G.L.

Date	18-SEP-2009		
Run Number	ONE		
Depth Driller	1200'		
Depth Logger	1200'		
Bottom Logged Interval	1200'		
Top Log Interval	SURFACE		
Open Hole Size	12.25"		
Type Fluid	H2O		
Density / Viscosity	na/na		
Max. Recorded Temp.	see FCT log		
Estimated Cement Top	na		
Time Well Ready	08:30 9/18/09		
Time Logger on Bottom	08:45 9/18/09		
Equipment Number	MVGS-1		
Location	FTM		
Recorded By	S.Miller / C.Miller		
Witnessed By	B.Lafrenz (TT)	D.Ringdahl (FDD)	E.Richardson (SFWMD)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	315'	1200'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	30"	0.375" WT	SURFACE	315'
Prot. String				
Production String				
Liner			ftoho-a1.db	6x
Invoice No.:	2009136	P.O. #: 4920	FDD Job #: 4920	* FINAL PRINT *

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

STATIC and DYNAMIC DOWN passes were performed.
Cw=448 uS/cm @ 78.1 degF (Dynamic Sample). Q =~1870 gpm.
FLUID RESISTIVITY CALIBRATION REPORT (Performed: 2-SEP-09 13:45)

uS/cm	CPS
374.8	3512.5
4421.4	2715.43
8814.9	2417.35

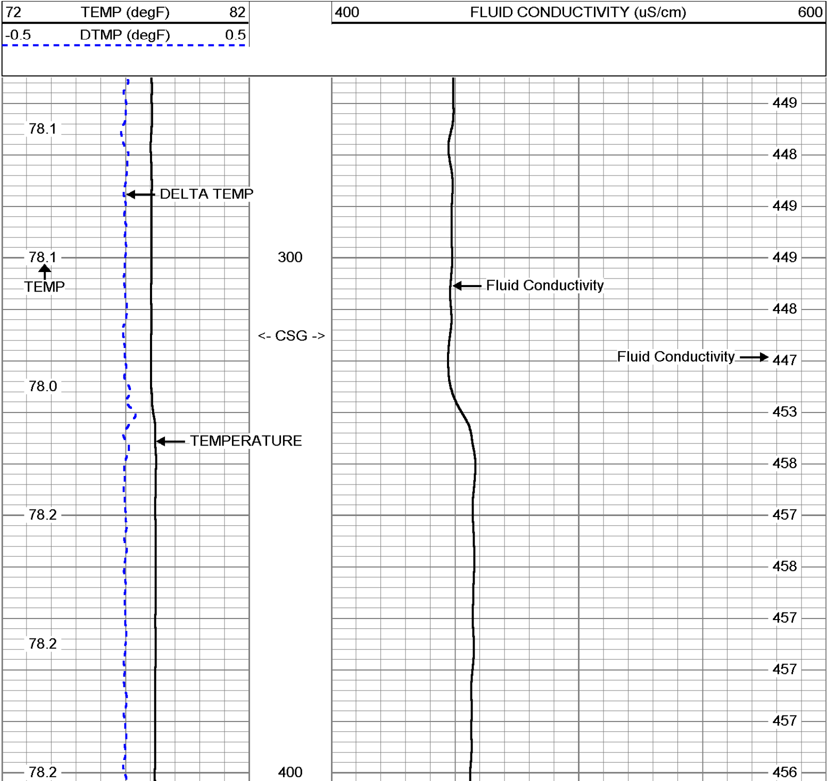
TEMPERATURE CALIBRATION REPORT (Performed: 2-SEP-09 14:30)

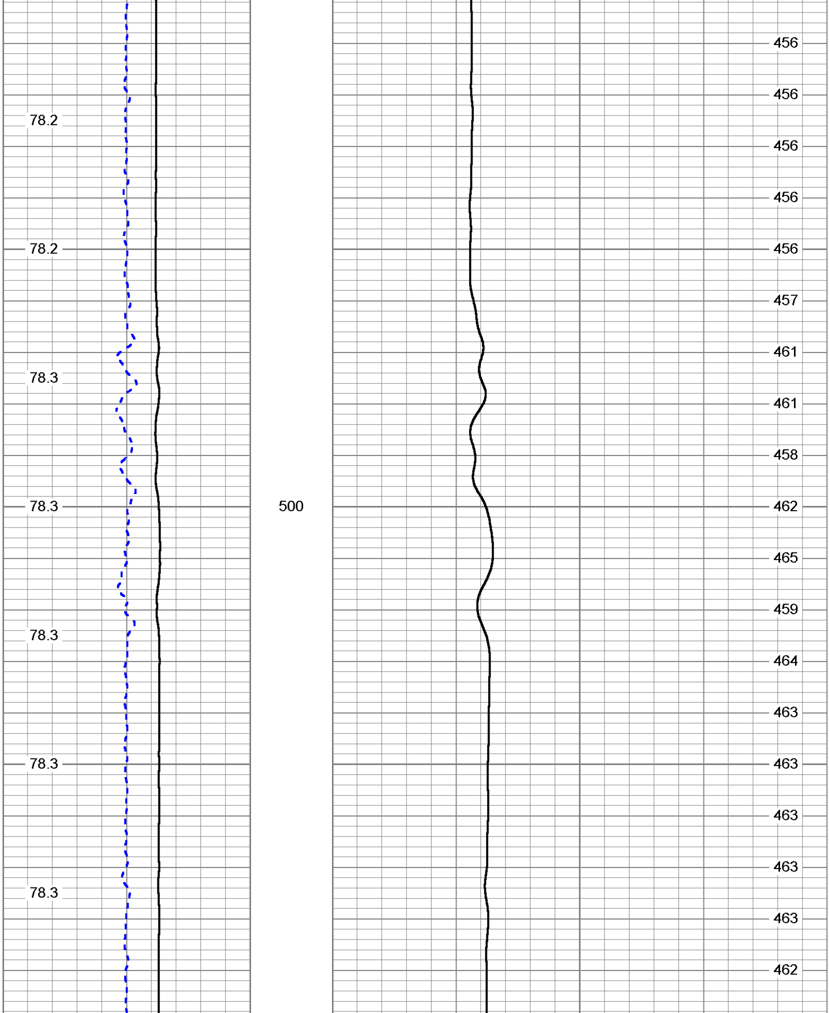
DEG-F	CPS
36.4	149.17
145.6	2679.64

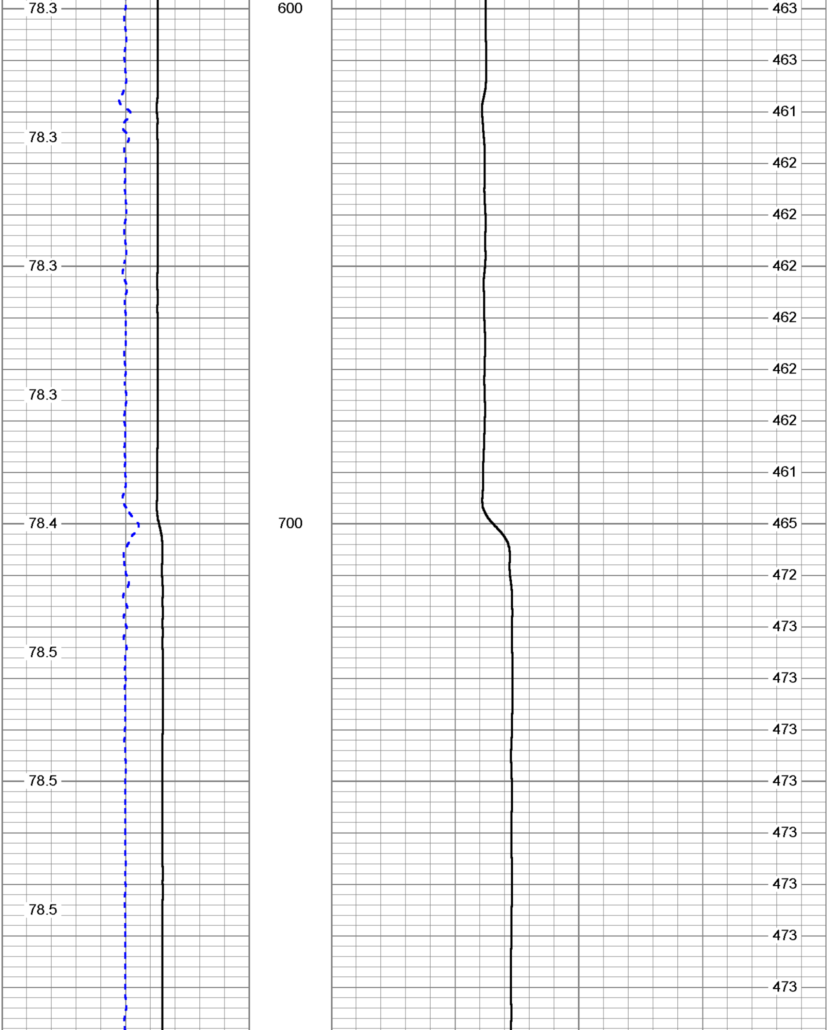
MV Geophysical

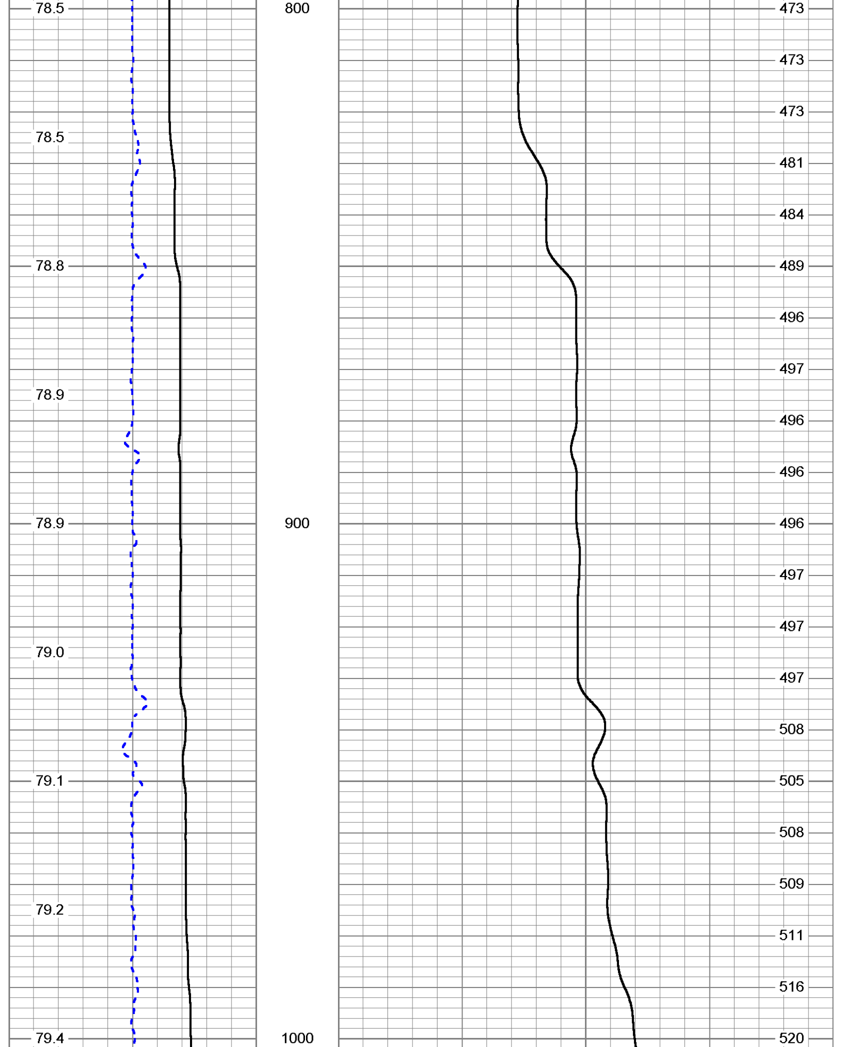
Dynamic FCT Down

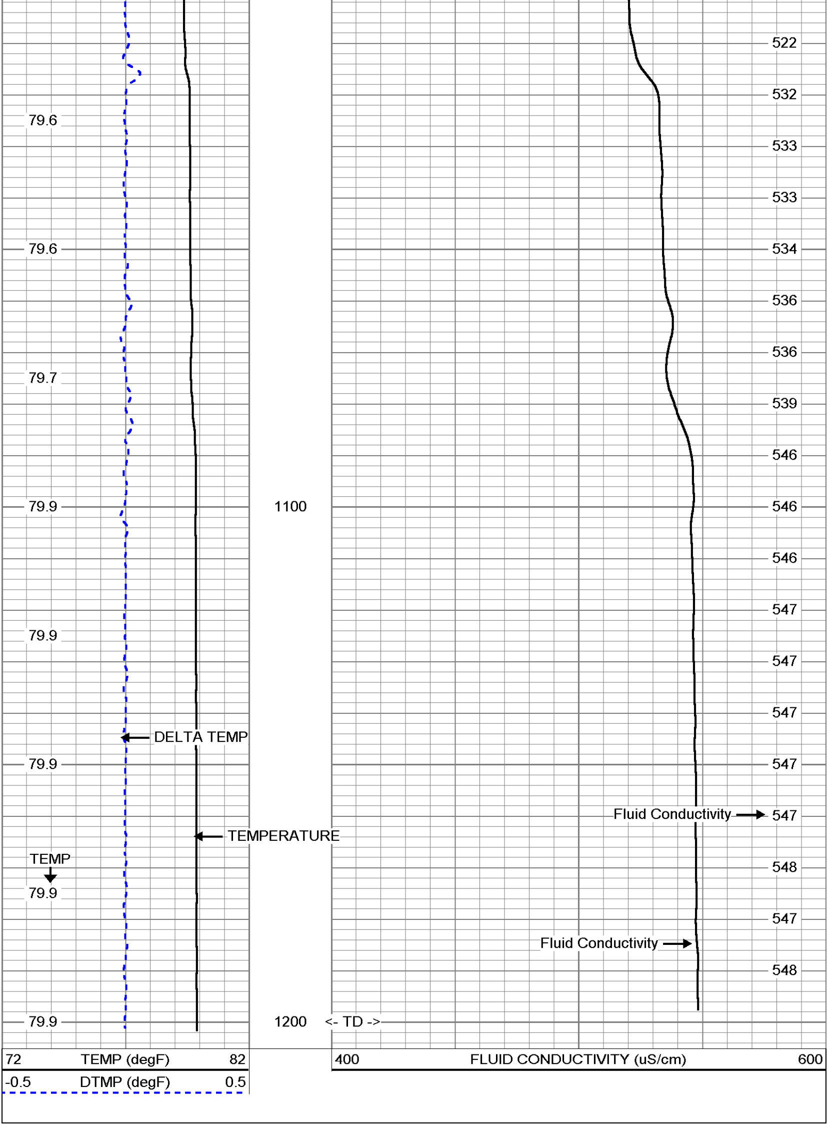
Database File: ftoho-a1.db
Dataset Pathname: DFCT
Presentation Format: FCTTOHO1
Dataset Creation: Fri Sep 18 17:49:45 2009
Charted by: Depth in Feet scaled 1:240







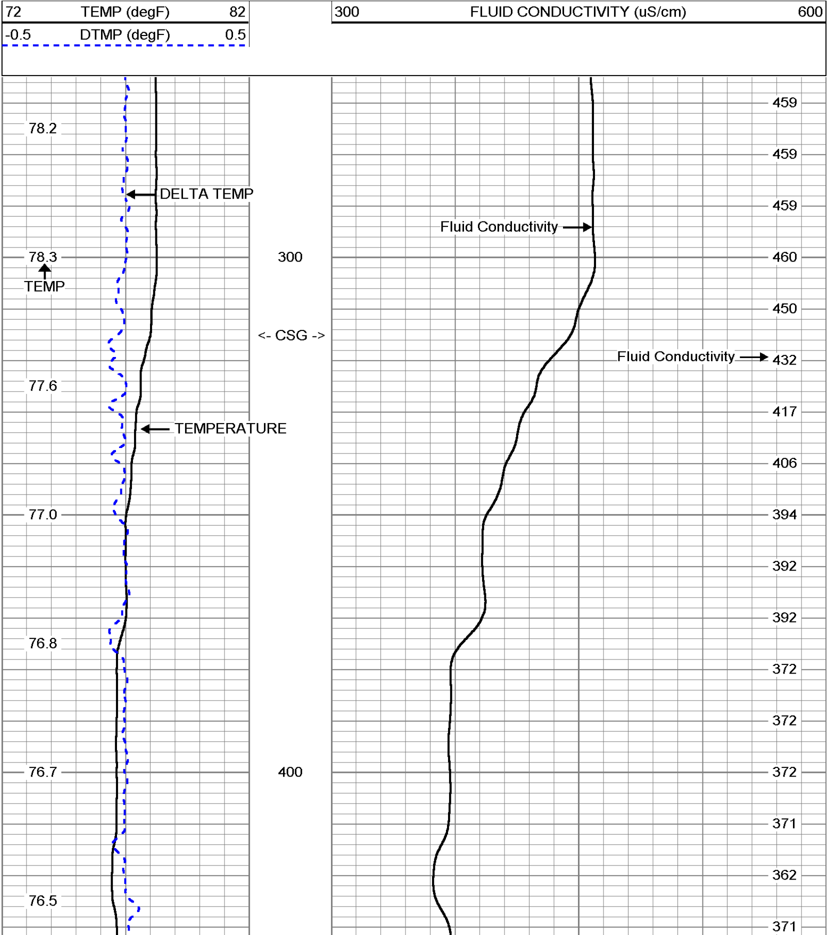


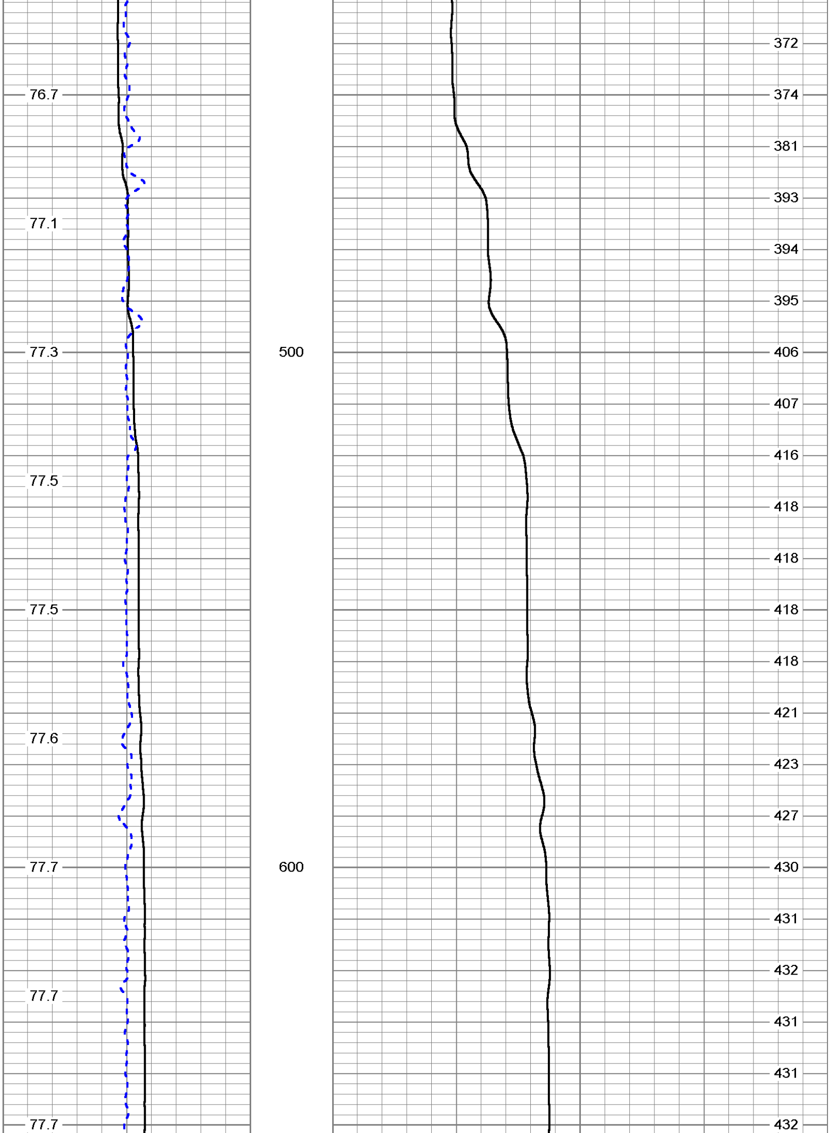


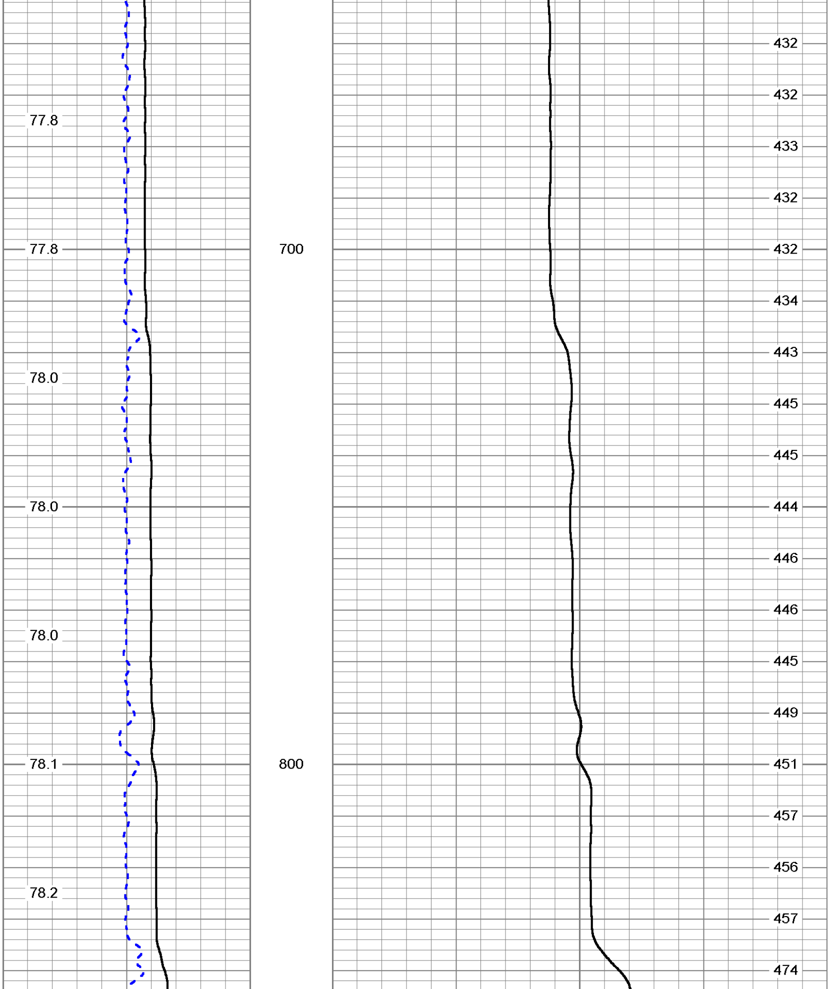
MV Geophysical

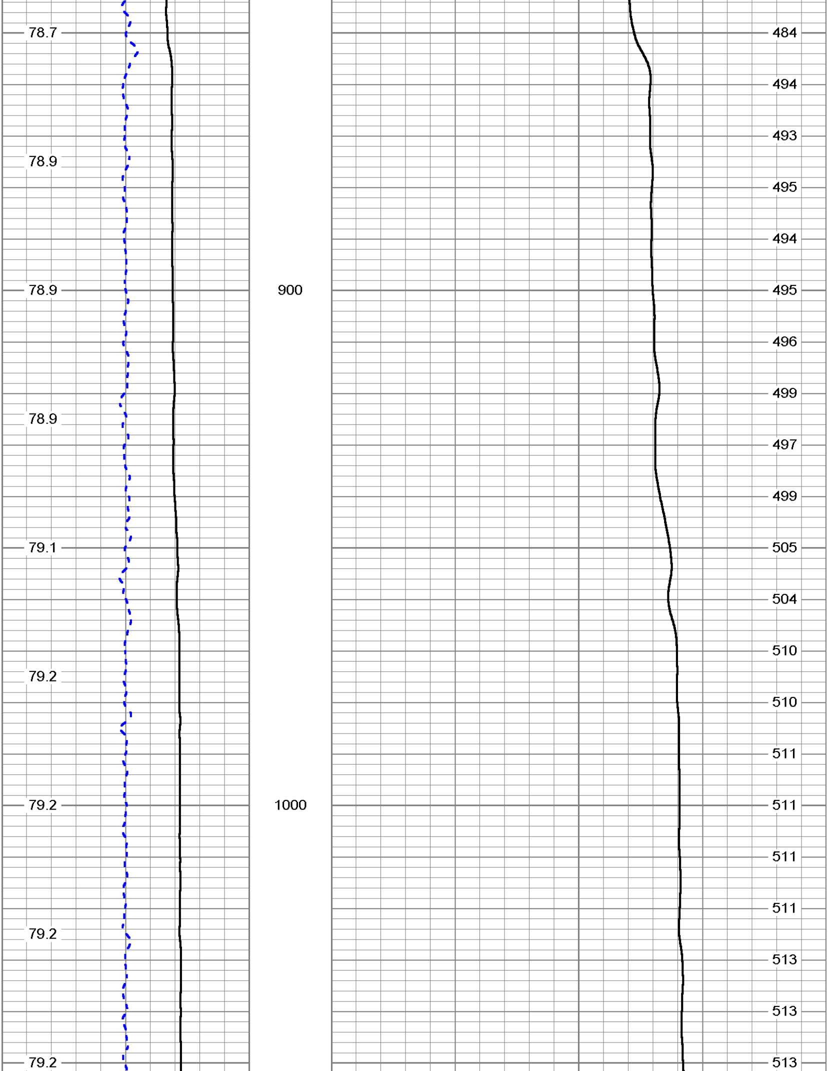
Static FCT Down

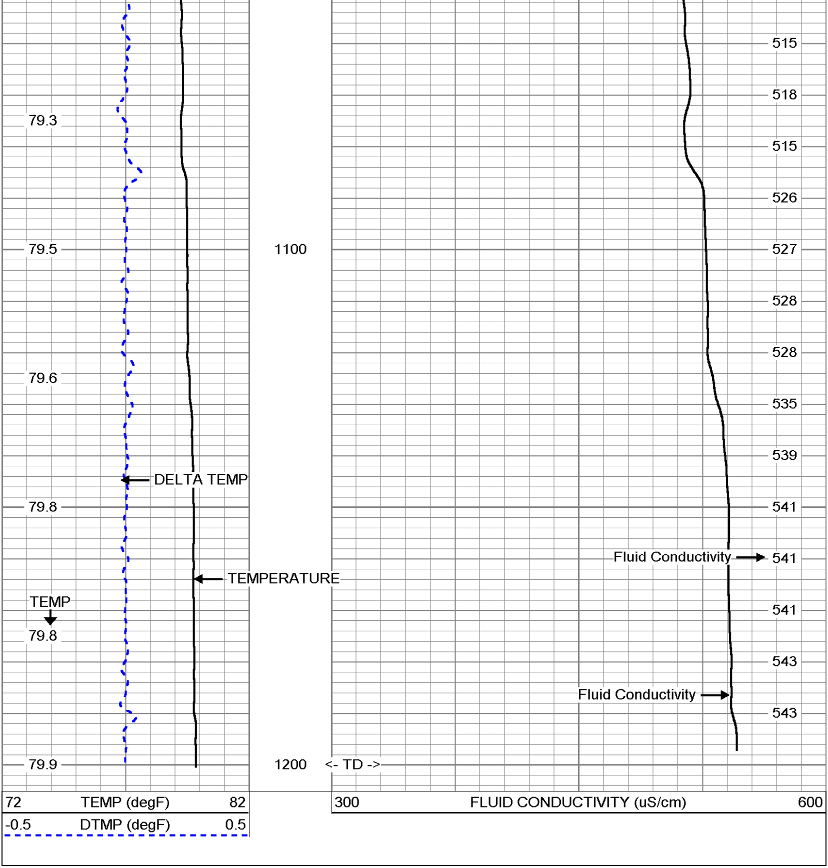
Database File:	ftoho-a1.db
Dataset Pathname:	SFCT
Presentation Format:	FCTTOHO2
Dataset Creation:	Fri Sep 18 17:58:25 2009
Charted by:	Depth in Feet scaled 1:240

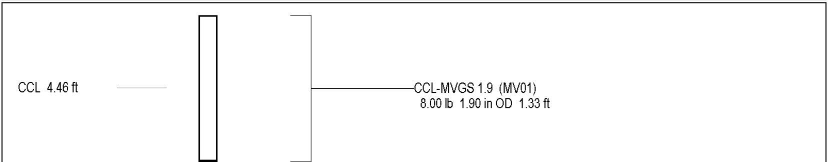


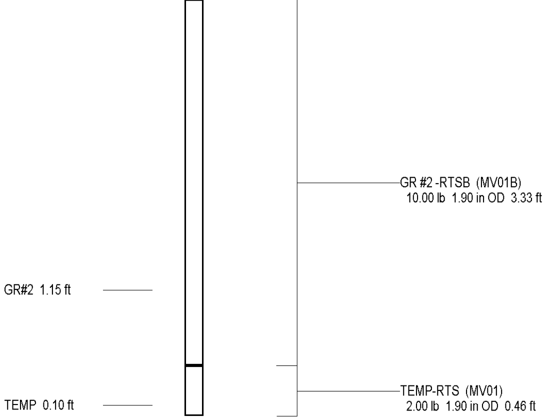












Dataset:	run1/pass26
Total Length:	5.12 ft
Total Weight:	20.00 lb
O.D.	1.90 in

MV Geophysical

FLOWMETER LOG

Company Florida Design Drilling Corp.
Well Chapman TPW-A1
Field Kenansville
County Osceola
State/Prv Florida

Company **Florida Design Drilling Corp.**
Well **Chapman TPW-A1**
Field **Kenansville**
County **Osceola** State/Prv **Florida**

Location
TOHO Water Authority - Site A
4397 Canoe Creek Road, Kenansville, FL 34739
Tetra Tech / SFWMD

Other Services
XY/GR,BHC
DIL/SP,FCT
FLOW,DHTV

Permanent Datum	Ground Level	Elevation
Log Measured From	Ground Level	
Drilling Measured From	Ground Level	

Elevation
K.B.
D.F.
G.L.

Date	18-SEP-2009		
Run Number	ONE		
Depth Driller	1200'		
Depth Logger	1200'		
Bottom Logged Interval	1200'		
Top Log Interval	SURFACE		
Open Hole Size	12.25"		
Type Fluid	H2O		
Density / Viscosity	na/na		
Max. Recorded Temp.	see FCT log		
Estimated Cement Top	na		
Time Well Ready	08:30 9/18/09		
Time Logger on Bottom	13:15 9/18/09		
Equipment Number	MVGS-1		
Location	FTM		
Recorded By	S.Miller / C.Miller		
Witnessed By	B.Lafrenz (TT)	D.Ringdahl (FDD)	E.Richardson (SFWMD)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	315'	1200'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	30"	0.375" WT	SURFACE	315'
Prot. String				
Production String				
Liner			ftoho-a1.db	6x
Invoice No.:	2009136	P.O. #: 4920	FDD Job #: 4920	* FINAL PRINT *

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Comments

STATIC and DYNAMIC down passes were made at 50 fpm.

TEN (10x) stations performed.

Q =~1805 gpm

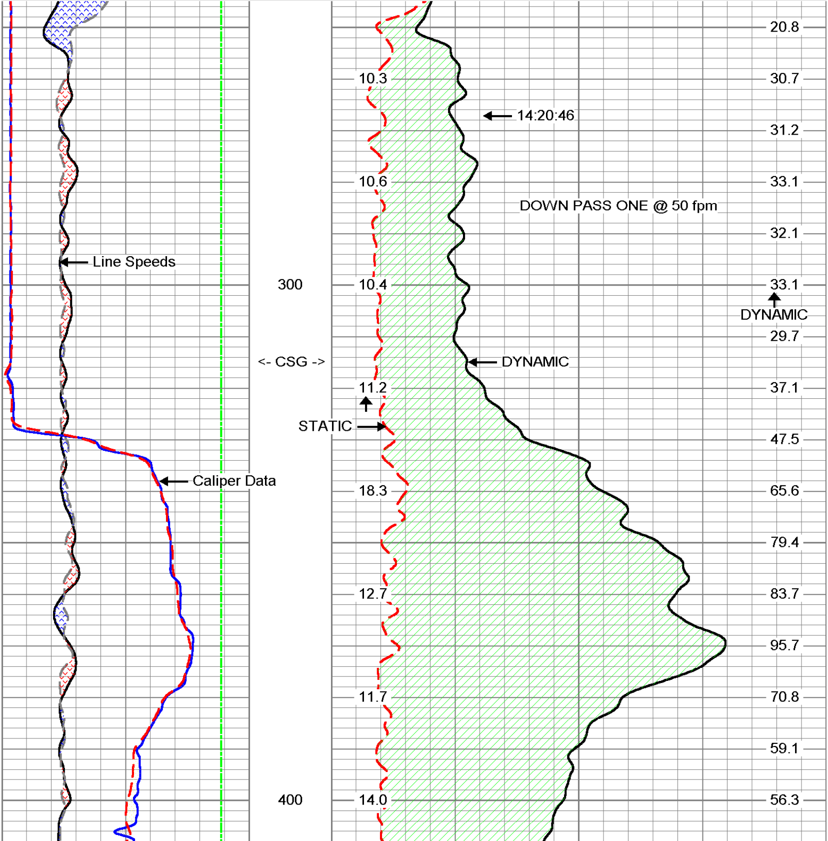
MV
Geophysical

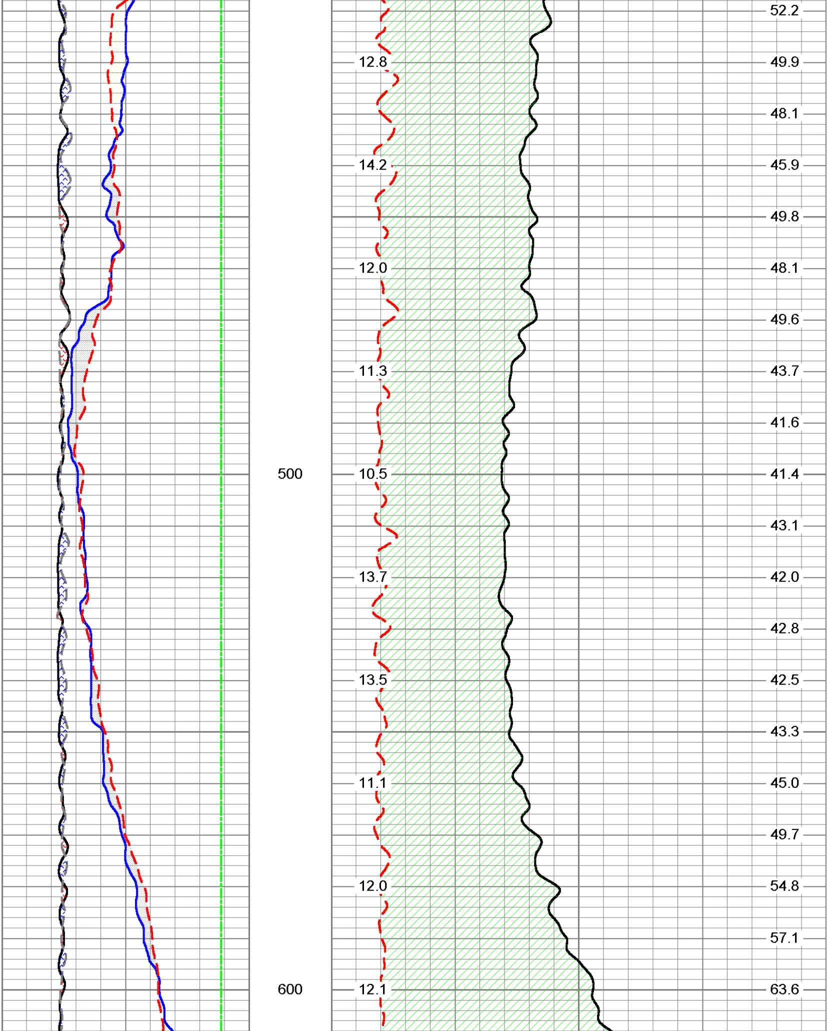
S/D DOWN @ 50 fpm

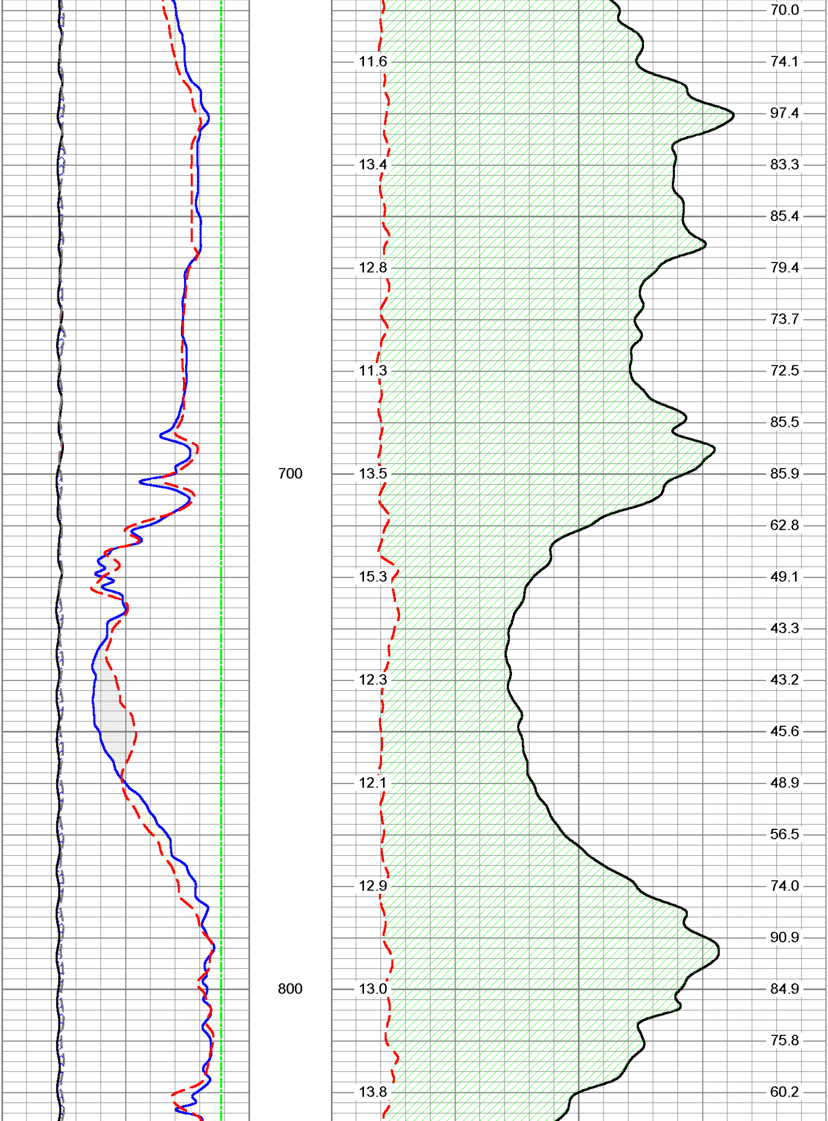
Database File: ftoho-a1.db
Dataset Pathname: SD50
Presentation Format: Q-120
Dataset Creation: Wed Sep 16 14:50:07 2009
Charted by: Depth in Feet scaled 1:240

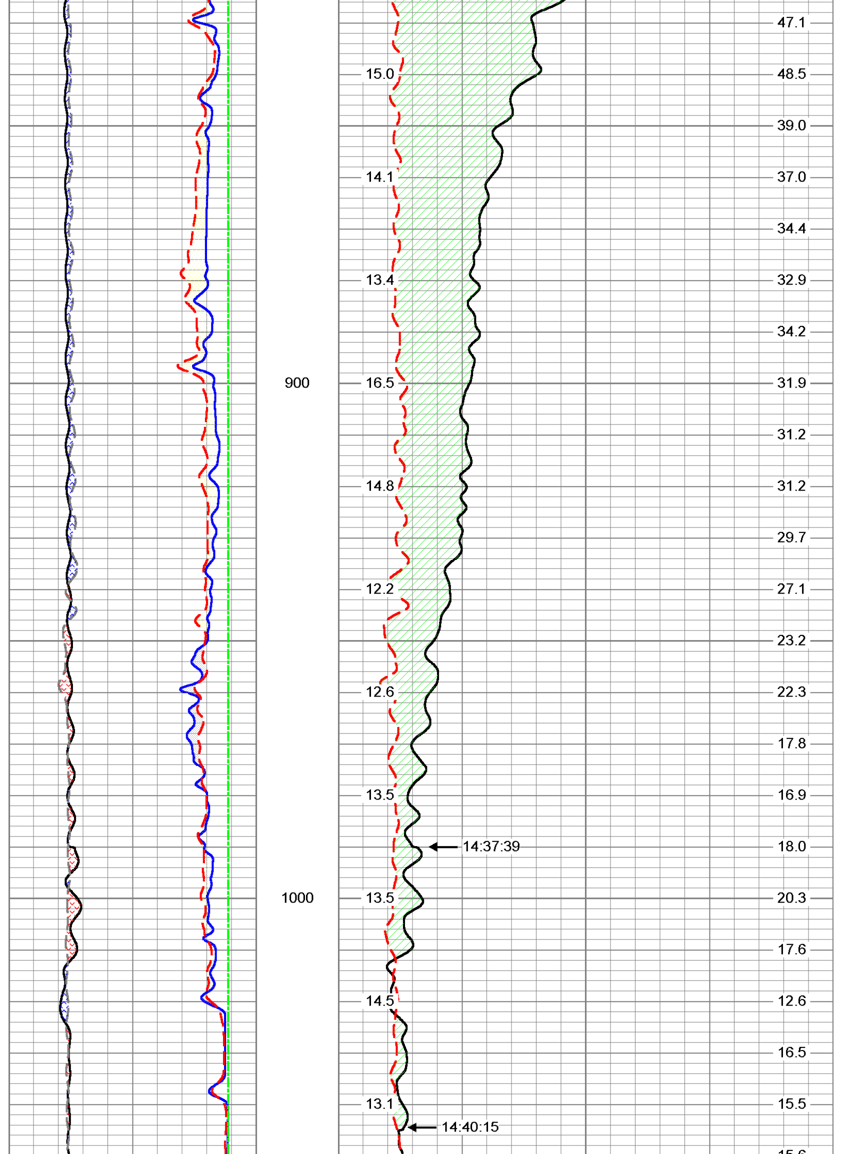
0	DYNAMIC LINE SPEED (ft/min)	00
0	STATIC LINE SPEED (ft/min)	200
30	X-CALIPER (in)	10
30	Y CALIPER (in)	10
30	BIT SIZE (in)	10

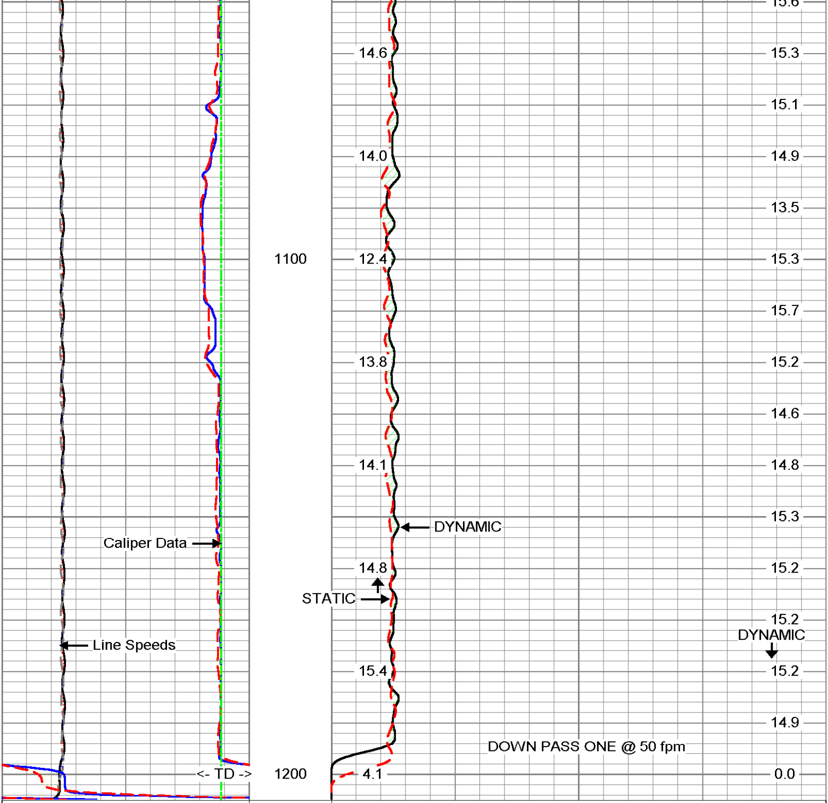
0	DYNAMIC (cps)	120
0	STATIC (cps)	120











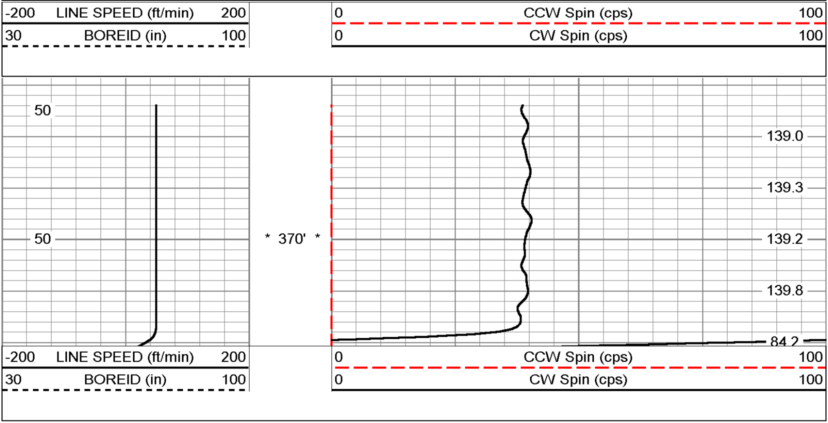
0	DYNAMIC LINE SPEED (ft/min)	00
0	STATIC LINE SPEED (ft/min)	200
30	X-CALIPER (in)	10
30	Y CALIPER (in)	10
30	BIT SIZE (in)	10

0	DYNAMIC (cps)	120
0	STATIC (cps)	120

MV
Geophysical

Station #10: 370' (3069 gpm)

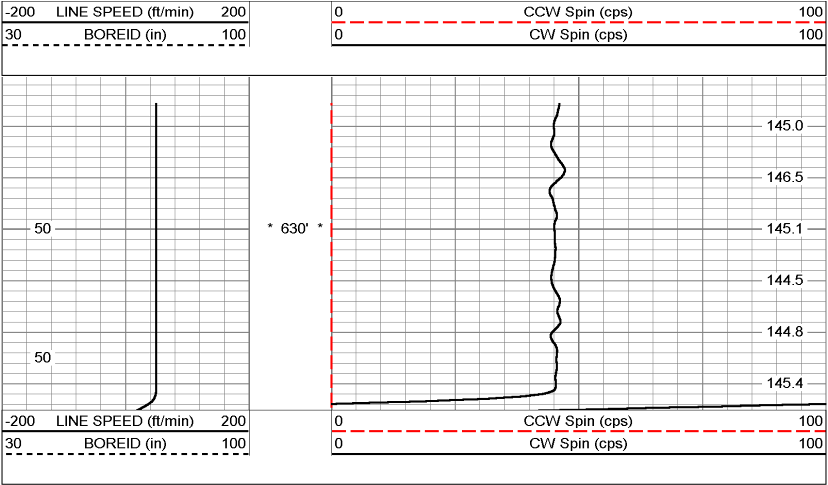
Database File:	ftoho-a1.db
Dataset Pathname:	pass25
Presentation Format:	FLOW
Dataset Creation:	Fri Sep 18 15:41:26 2009 by Log VER_5.3
Charted by:	Depth in Feet scaled 1:240



MV
Geophysical

Station #9: 630' (3069 gpm)

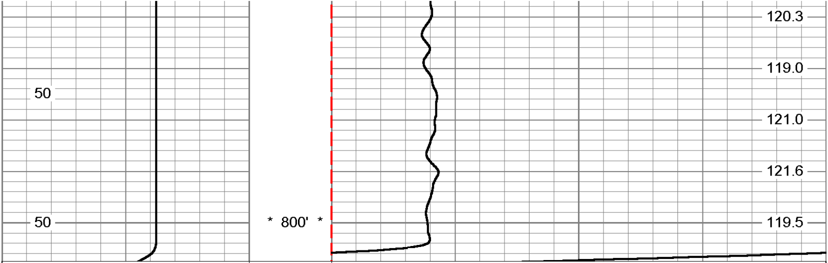
Database File: ftoho-a1.db
Dataset Pathname: pass24
Presentation Format: FLOW
Dataset Creation: Fri Sep 18 15:37:06 2009 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240



Station #8: 800' (3072 gpm)

Database File: ftoho-a1.db
Dataset Pathname: pass23
Presentation Format: FLOW
Dataset Creation: Fri Sep 18 15:32:37 2009 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240

-200 LINE SPEED (ft/min) 200
30 BOREID (in) 100
0 CCW Spin (cps) 100
0 CW Spin (cps) 100

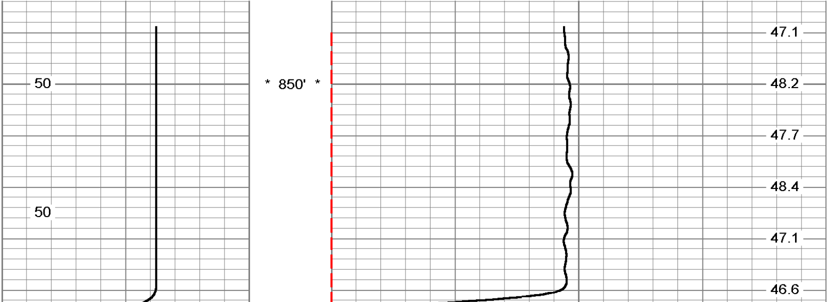


-200 LINE SPEED (ft/min) 200
30 BOREID (in) 100
0 CCW Spin (cps) 100
0 CW Spin (cps) 100

Station #7: 850' (3072 gpm)

Database File: ftoho-a1.db
Dataset Pathname: pass22
Presentation Format: FLOW
Dataset Creation: Fri Sep 18 15:29:53 2009 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240

-200 LINE SPEED (ft/min) 200
30 BOREID (in) 100
0 CCW Spin (cps) 100
0 CW Spin (cps) 100



-200 LINE SPEED (ft/min) 200
30 BOREID (in) 100

0 CCW Spin (cps) 100
0 CW Spin (cps) 100

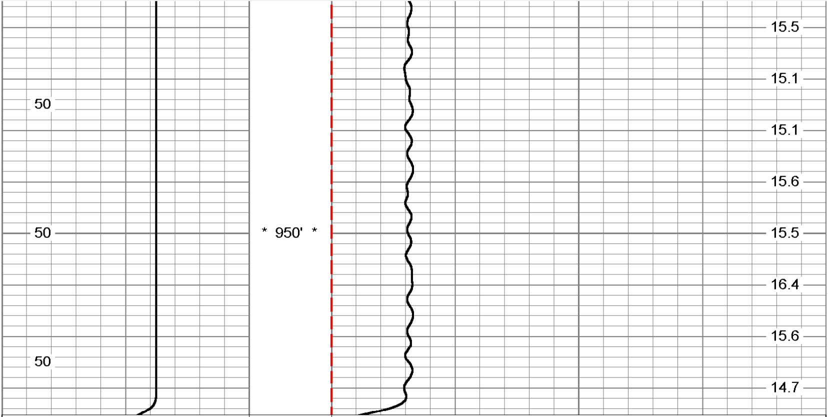
MV Geophysical

Station #6: 950' (3072 gpm)

Database File: ftoho-a1.db
Dataset Pathname: pass21
Presentation Format: FLOW
Dataset Creation: Fri Sep 18 15:25:00 2009 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240

-200 LINE SPEED (ft/min) 200
30 BOREID (in) 100

0 CCW Spin (cps) 100
0 CW Spin (cps) 100



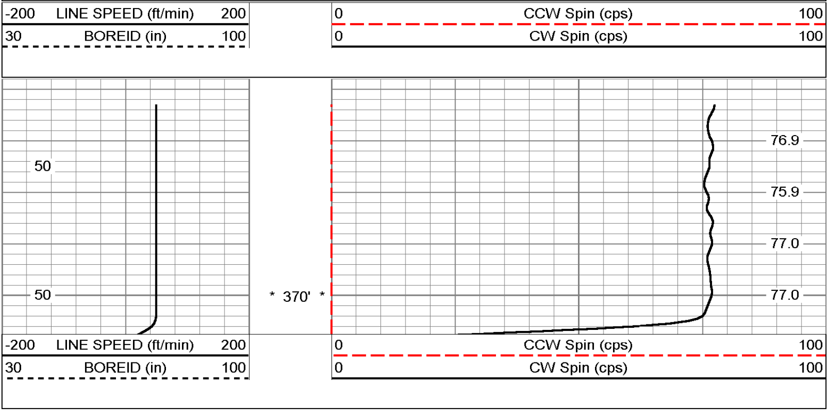
-200 LINE SPEED (ft/min) 200
30 BOREID (in) 100

0 CCW Spin (cps) 100
0 CW Spin (cps) 100

MV Geophysical

Station #5: 370'

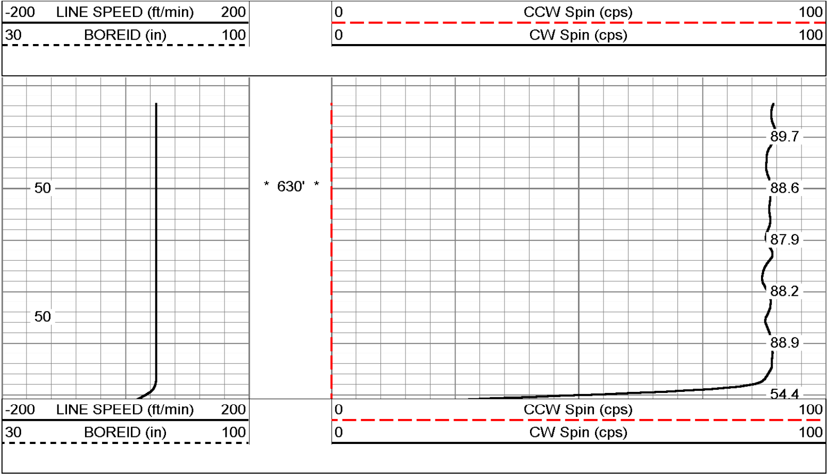
Database File: ftoho-a1.db
Dataset Pathname: pass20
Presentation Format: FLOW
Dataset Creation: Fri Sep 18 15:11:26 2009 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240



MV Geophysical

Station #4: 630'

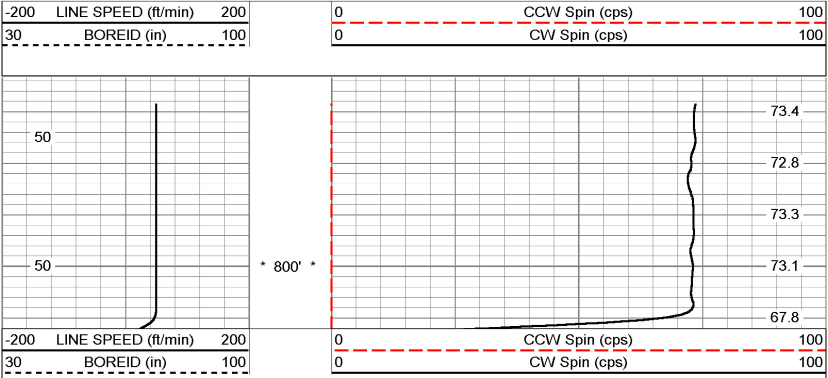
Database File: ftoho-a1.db
Dataset Pathname: pass19
Presentation Format: FLOW
Dataset Creation: Fri Sep 18 15:06:43 2009 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240



MV Geophysical

Station #3: 800'

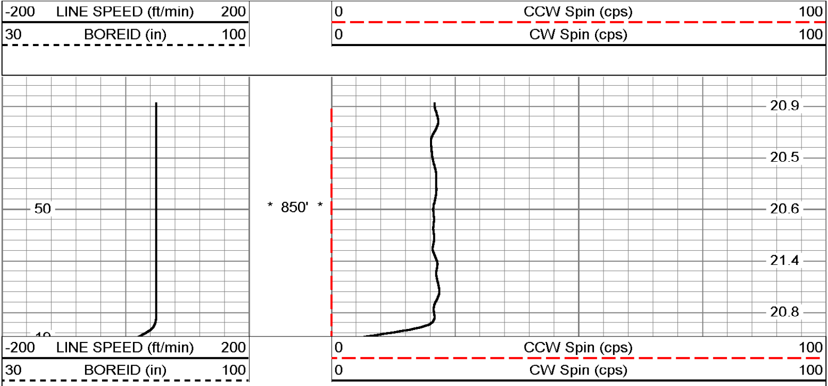
Database File: ftoho-a1.db
Dataset Pathname: pass18
Presentation Format: FLOW
Dataset Creation: Fri Sep 18 15:02:15 2009 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240



MV Geophysical

Station #2: 850'

Database File: ftoho-a1.db
Dataset Pathname: pass17
Presentation Format: FLOW
Dataset Creation: Fri Sep 18 14:59:59 2009 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240



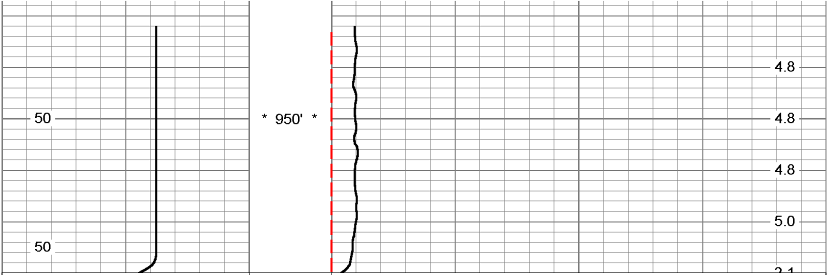
MV Geophysical

Station #1: 950'

Database File:	ftoho-a1.db
Dataset Pathname:	pass16
Presentation Format:	FLOW
Dataset Creation:	Fri Sep 18 14:56:51 2009 by Log VER_5.3
Charted by:	Depth in Feet scaled 1:240

-200 LINE SPEED (ft/min) 200
30 BOREID (in) 100

0 CCW Spin (cps) 100
0 CW Spin (cps) 100



-200 LINE SPEED (ft/min) 200
30 BOREID (in) 100

0 CCW Spin (cps) 100
0 CW Spin (cps) 100

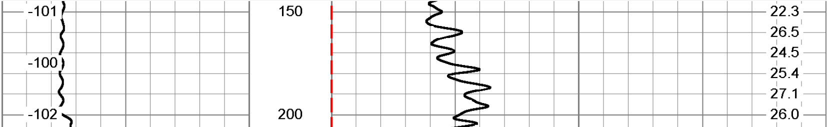
MV Geophysical

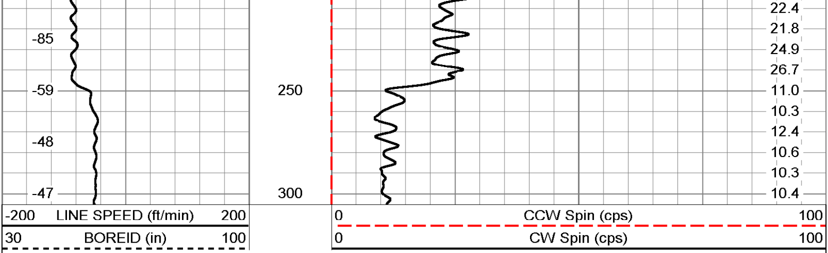
Q Calibration Down

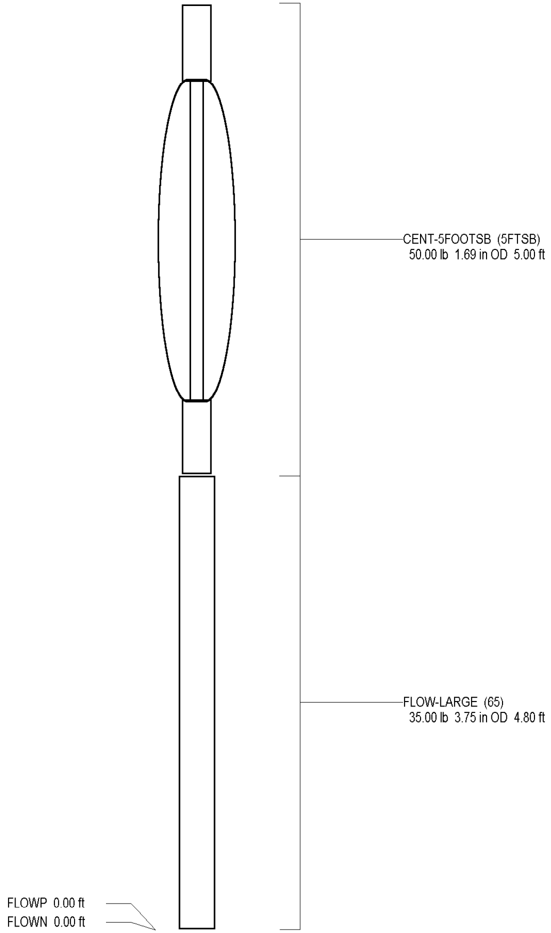
Database File:	ftoho-a1.db
Dataset Pathname:	pass12
Presentation Format:	FLOW
Dataset Creation:	Wed Sep 16 13:28:03 2009 by Log VER_5.3
Charted by:	Depth in Feet scaled 1:600

-200 LINE SPEED (ft/min) 200
30 BOREID (in) 100

0 CCW Spin (cps) 100
0 CW Spin (cps) 100







Dataset:	run1/pass19
Total Length:	9.80 ft
Total Weight:	85.00 lb
O.D.	3.75 in