MV Geophysical

DUAL INDUCTION LL3 / SP LOG

Company	Florida Design Drilling Corp.
Well	SGF-2
Field	Sunrise
County	Broward
State/Prv	Florida

Company Florida Design Drilling Corp.
Well SGF-2
Field Sunrise
County Broward State/Prv Florida

Location
City of Sunrise Sawgrass Floridan Test Wells
Concord Ave., Sunrise FL 33323
MPI/AUS

Other Services
XY/GR
DIL/SP

		Elevation
Permanent Datum	G.L.	
Log Measured From	G.L.	K.B.
Drilling Measured From	G.L.	D.F.
		G.L.

Date	27-SEP-2012
Run Number	ONE
Depth Driller	228'
Depth Logger	228'
Bottom Logged Interval	226'
Top Log Interval	48'
Open Hole Size	9.875"
Type Fluid	MUD
Density / Viscosity	na/na
Max. Recorded Temp.	NA
Estimated Cement Top	SURFACE
Time Well Ready	14:15 9/27/2012
Time Logger on Bottom	15:30 9/27/2012
Equipment Number	MVGS-1
Location	Ft. Myers
Recorded By	S.Miller/C.Miller
Witnessed By	R.Miller (MPI/AUS) / Rossco (FDD)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	9.875"	48'	228'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	48"	0.375" WT	SURFACE	48'
Prot. String				
Production String				
Liner			10x/.pdf/.las	fddsunr2.db
Invoice No. 2012199		P.O. :	Job No.:	* Field Print *

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Comments

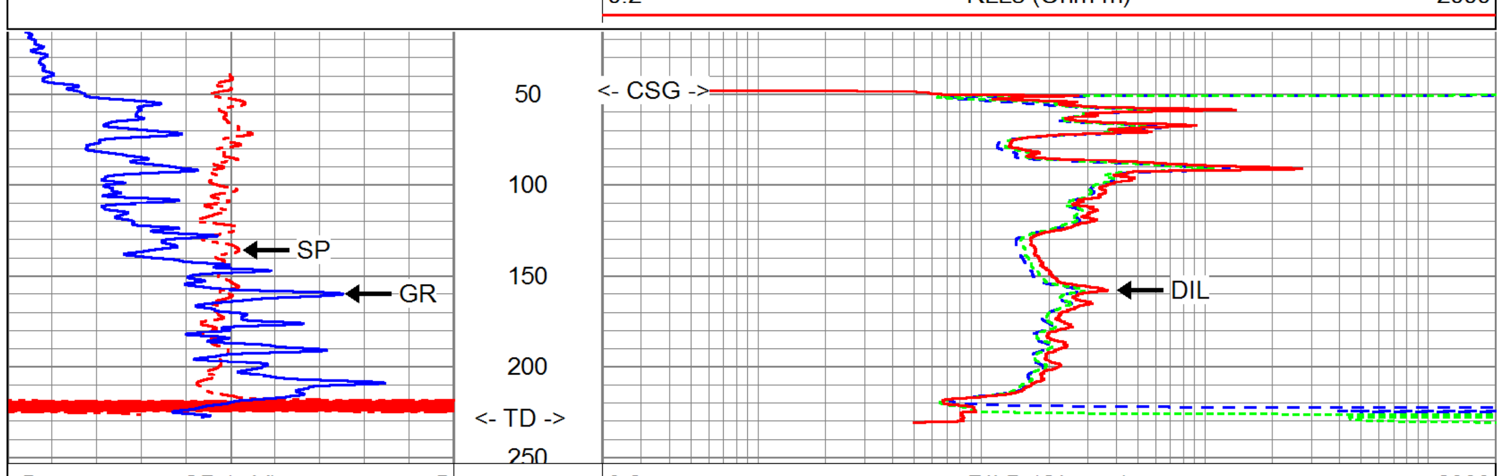
Rm=5.167 ohm-m @ 98.2 degF

MV Geophysical

MAIN PASS

Database File: fddsunr2.db
Dataset Pathname: MAIN
Presentation Format: dil-1
Dataset Creation: Thu Sep 27 15:20:03 2012
Charted by: Depth in Feet scaled 1:1200

-5 SP (mV) 5	0.2 RILD (Ohm-m) 2000
0 GR (GAPI) 100	0.2 RILM (Ohm-m) 2000
	0.2 RLL3 (Ohm-m) 2000



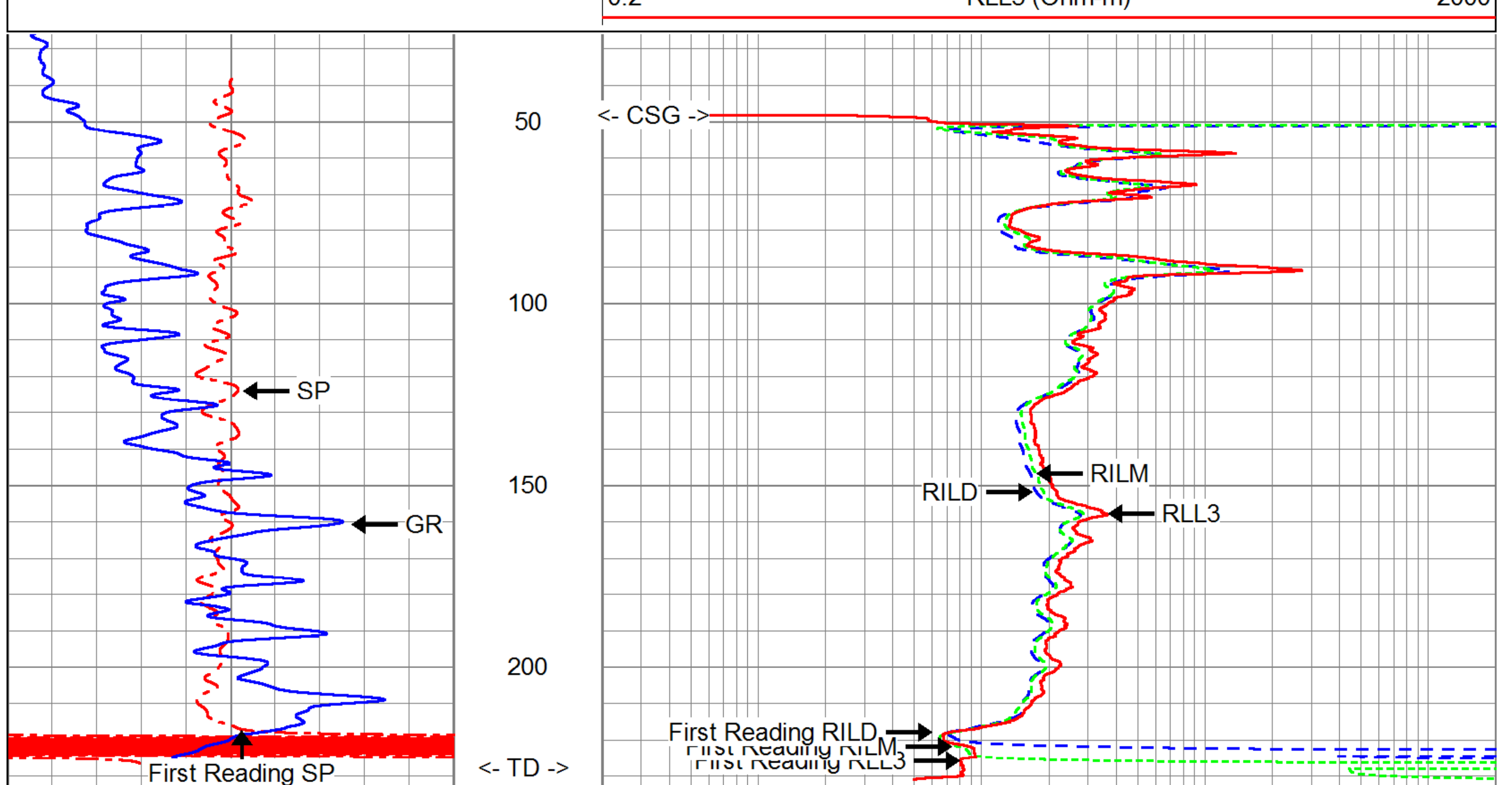
-5 SP (mV) 5	0.2 RILD (Ohm-m) 2000
0 GR (GAPI) 100	0.2 RILM (Ohm-m) 2000
	0.2 RLL3 (Ohm-m) 2000

MV Geophysical

MAIN PASS

Database File: fddsunr2.db
Dataset Pathname: MAIN
Presentation Format: dil-5
Dataset Creation: Thu Sep 27 15:20:03 2012
Charted by: Depth in Feet scaled 1:600

-5 SP (mV) 5	0.2 RILD (Ohm-m) 2000
0 GR (GAPI) 100	0.2 RILM (Ohm-m) 2000
	0.2 RLL3 (Ohm-m) 2000



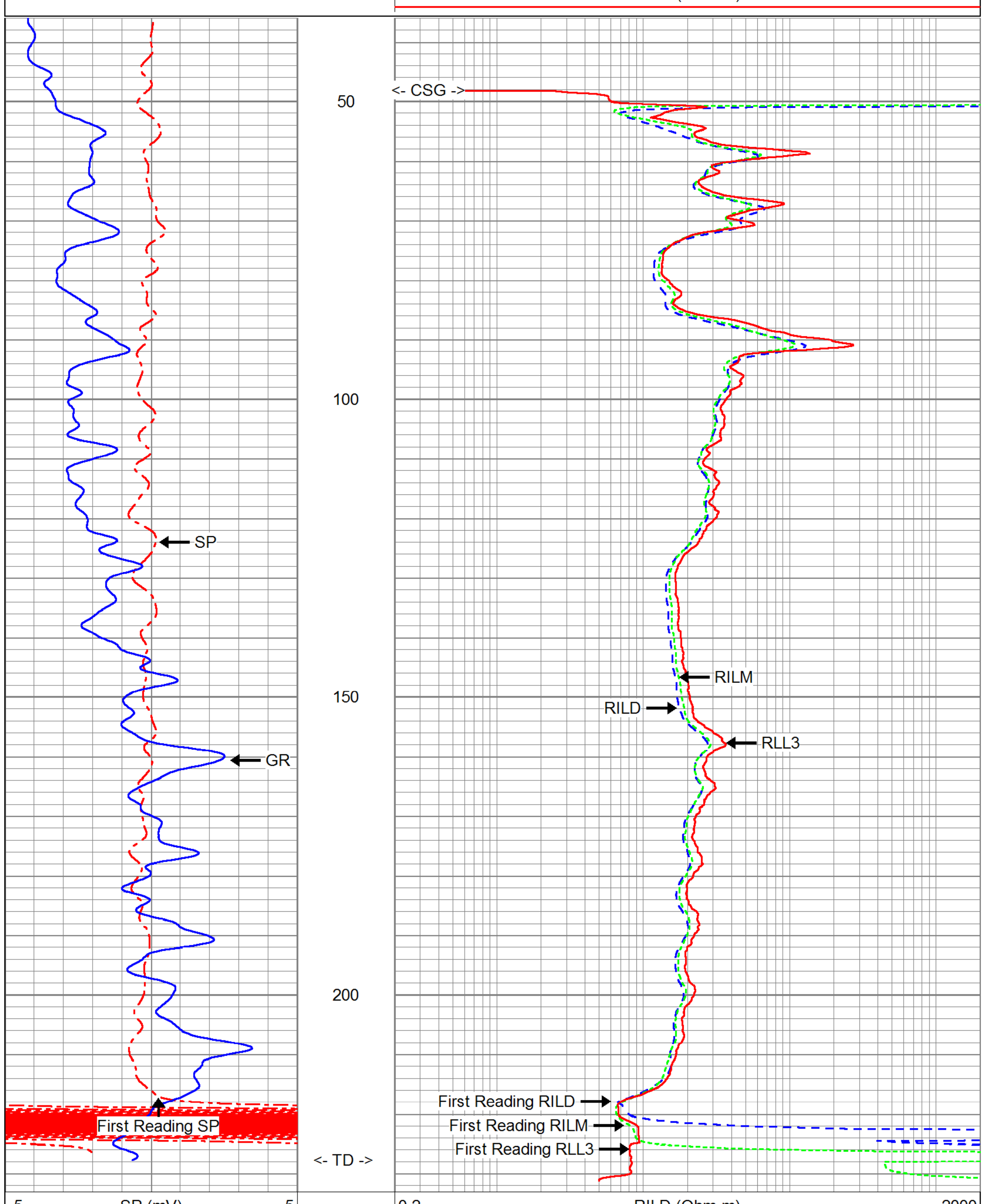
-5 SP (mV) 5	0.2 RILD (Ohm-m) 2000
0 GR (GAPI) 100	0.2 RILM (Ohm-m) 2000
	0.2 RLL3 (Ohm-m) 2000

MV Geophysical

MAIN PASS

Database File: fddsunr2.db
Dataset Pathname: MAIN
Presentation Format: dil-5
Dataset Creation: Thu Sep 27 15:20:03 2012
Charted by: Depth in Feet scaled 1:240

-5 SP (mV) 5	0.2 RILD (Ohm-m) 2000
0 GR (GAPI) 100	0.2 RILM (Ohm-m) 2000
	0.2 RLL3 (Ohm-m) 2000



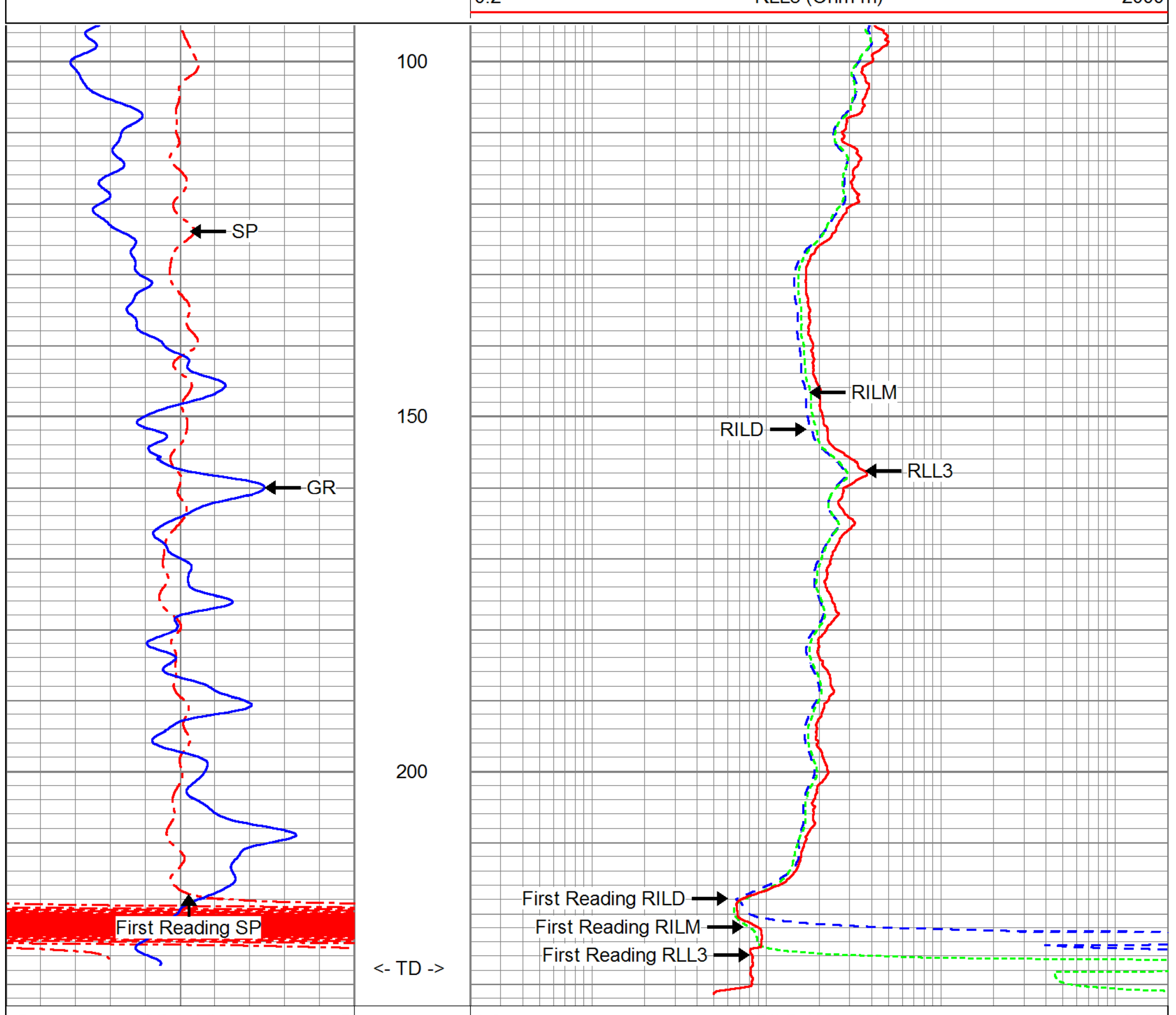
-5 SP (mV) 5	0.2 RILD (Ohm-m) 2000
0 GR (GAPI) 100	0.2 RILM (Ohm-m) 2000
	0.2 RLL3 (Ohm-m) 2000

MV Geophysical

REPEAT SECTION

Database File: fddsunr2.db
Dataset Pathname: REPEAT
Presentation Format: dil-5
Dataset Creation: Thu Sep 27 15:33:48 2012
Charted by: Depth in Feet scaled 1:240

-5 SP (mV) 5	0.2 RILD (Ohm-m) 2000
0 GR (GAPI) 100	0.2 RILM (Ohm-m) 2000
	0.2 RLL3 (Ohm-m) 2000



-5 SP (mV) 5	0.2 RILD (Ohm-m) 2000
0 GR (GAPI) 100	0.2 RILM (Ohm-m) 2000
	0.2 RLL3 (Ohm-m) 2000

Calibration Report

Database File: fddsunr2.db
Dataset Pathname: pass7
Dataset Creation: Thu Sep 27 15:54:04 2012 by Log VER_5.3

Dual Induction Calibration Report

Serial-Model: 5390-R
Surface Cal Performed: Tue Jan 17 16:39:01 2012
Downhole Cal Performed: Tue Jan 17 16:39:14 2012
After Survey Verification Performed: Wed Apr 21 11:04:55 2010

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.051	0.645	V	0.000	400.000	mmho-m	673.401	-34.343
Medium	0.018	0.735	V	0.000	464.000	mmho-m	647.121	-11.545
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.641	V	0.000	400.000	mmho-m	635.021	-7.049
Medium	0.005	0.739	V	0.000	464.000	mmho-m	632.408	-3.370

Downhole Calibration

	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	-43.158	78.288	mmho-m	-42.562	77.982	mmho-m	0.993	0.275
Medium	-9.475	466.701	mmho-m	-8.097	466.698	mmho-m	0.997	1.351
Shallow	2.515	0.025	V	494.500	2.000	Ohm-m	197.815	-2.985

After Survey Verification

	Readings			Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho-m	-43.158	78.288	mmho-m	0.993	0.275
Medium	0.000	0.000	mmho-m	-9.475	466.701	mmho-m	0.997	1.351
Shallow	0.000	0.000	Ohm-m	494.500	2.000	Ohm-m	1.000	0.000

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CILD	10.60		DIL-R (5390)	20.90	4.00	345.00
SP	10.60					
CILM	6.80					
RLL3	1.70					

Dataset: fddsunr2.db: field/well/run1/pass7
Total Length: 20.90 ft
Total Weight: 345.00 lb
O.D.: 4.00 in

MV Geophysical

Company	Florida Design Drilling Corp.
Well	SGF-2
Field	Sunrise
County	Broward
State	Florida
Country	USA

Permanent Datum
Log Measured From
Drilling Measured From

Logging Date
Run Number
Depth Driller
Depth Logger
Bottom Logged Interval
Top Logged Interval
Casing Driller
Casing Logger
Bit Size
Type Fluid in Hole
Density
Viscosity
pH
Fluid Loss
Source of Sample
Rm @ Measured Temp
Rmf @ Measured Temp
Rmc @ Measured Temp
Source of Rmf and Rmc
Rm @ BHT
Time Since Circulation
Time Since Circulation
Max Rec Temp
Equipment Number
Location
Recorded By
Witnessed By

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

Logging Date
Run Number
Depth Driller
Depth Logger
Bottom Logged Interval
Top Logged Interval
Casing Driller
Casing Logger
Bit Size
Type Fluid in Hole
Density
Viscosity
pH
Fluid Loss
Source of Sample
Rm @ Measured Temp
Rmf @ Measured Temp
Rmc @ Measured Temp
Source of Rmf and Rmc
Rm @ BHT
Time Since Circulation
Time Since Circulation
Max Rec Temp
Equipment Number
Location
Recorded By
Witnessed By

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

Logging Date
Run Number
Depth Driller
Depth Logger
Bottom Logged Interval
Top Logged Interval
Casing Driller
Casing Logger
Bit Size
Type Fluid in Hole
Density
Viscosity
pH
Fluid Loss
Source of Sample
Rm @ Measured Temp
Rmf @ Measured Temp
Rmc @ Measured Temp
Source of Rmf and Rmc
Rm @ BHT
Time Since Circulation
Time Since Circulation
Max Rec Temp
Equipment Number
Location
Recorded By
Witnessed By

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

Logging Date
Run Number
Depth Driller
Depth Logger
Bottom Logged Interval
Top Logged Interval
Casing Driller
Casing Logger
Bit Size
Type Fluid in Hole
Density
Viscosity
pH
Fluid Loss
Source of Sample
Rm @ Measured Temp
Rmf @ Measured Temp
Rmc @ Measured Temp
Source of Rmf and Rmc
Rm @ BHT
Time Since Circulation
Time Since Circulation
Max Rec Temp
Equipment Number
Location
Recorded By
Witnessed By

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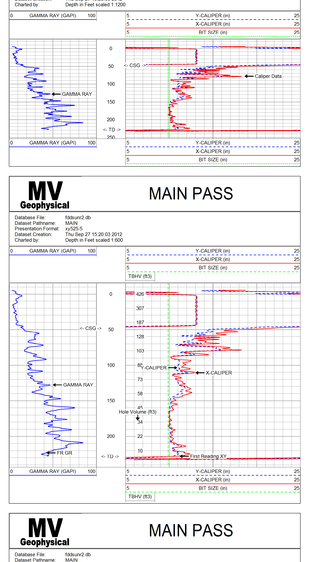
Comments

X-Y Caliper Arm Extensions: 33"

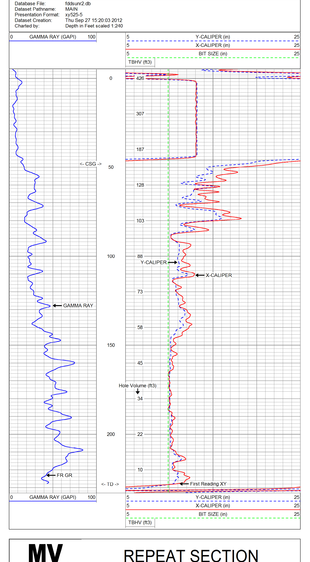
MAIN PASS

Database File: fddsurv2.db
Dataset Pathname: MAIN
Presentation Format: xy25-1
Dataset Creation: Thu Sep 27 15:20:03 2012
Charted by: Depth in Feet scaled 1:1200



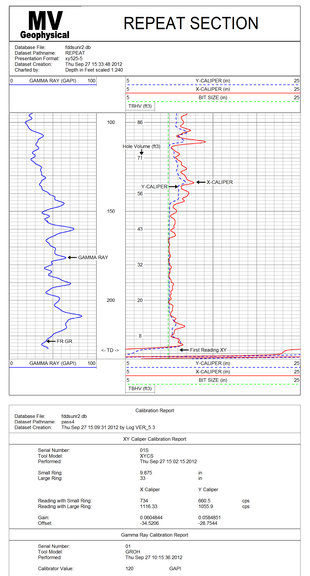
MAIN PASS

Database File: fddsurv2.db
Dataset Pathname: MAIN
Presentation Format: xy25-1
Dataset Creation: Thu Sep 27 15:20:03 2012
Charted by: Depth in Feet scaled 1:600



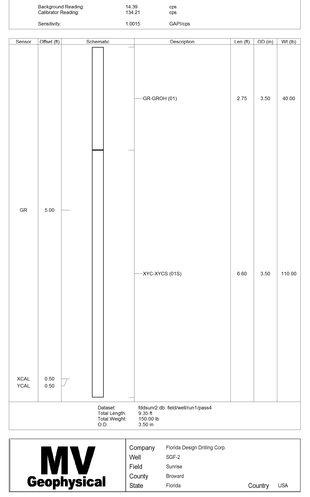
MAIN PASS

Database File: fddsurv2.db
Dataset Pathname: MAIN
Presentation Format: xy25-1
Dataset Creation: Thu Sep 27 15:20:03 2012
Charted by: Depth in Feet scaled 1:240



REPEAT SECTION

Database File: fddsurv2.db
Dataset Pathname: REPEAT
Presentation Format: xy25-1
Dataset Creation: Thu Sep 27 15:33:48 2012
Charted by: Depth in Feet scaled 1:240



Calibration Report

Database File: fddsurv2.db
Dataset Pathname: pass4
Dataset Creation: Thu Sep 27 15:09:31 2012 by Log VER_5.3

XY Caliper Calibration Report

Serial Number:	015		
Tool Model:	XYCS		
Performed:	Thu Sep 27 15:02:15 2012		
Small Ring:	9.875	in	
Large Ring:	33	in	
	X Caliper	Y Caliper	
Reading with Small Ring:	734	660.5	cps
Reading with Large Ring:	1116.33	1055.9	cps
Gain:	0.0604844	0.0564651	
Offset:	-34.0206	-28.7544	

Gamma Ray Calibration Report

Serial Number:	01	
Tool Model:	GROH	
Performed:	Thu Sep 27 10:15:36 2012	
Calibrator Value:	120	GAPI
Background Reading:	14.39	cps
Calibrator Reading:	134.21	cps
Sensitivity:	1.0015	GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			GR GROH (01)	2.75	3.50	40.00
GR	5.00		XY/C XYCS (015)	6.60	3.50	110.00
XCAL	0.50					
YCAL	0.50					

Dataset: fddsurv2.db: field\well\run1\pass4
Total Length: 9.35 ft
Total Weight: 150.00 lb
O.D: 3.50 in

MV Geophysical

Company Florida Design Drilling Corp.
Well SGF-2
Field Sunrise
County Broward
State Florida Country USA

Company	Florida Design Drilling Corp.
Well	SGF-2
Field	Sunrise
County	Broward
State/Prv	Florida

MV Geophysical

BOREHOLE COMPENSATED SONIC w/ VARIABLE DENSITY LOG

Company	Florida Design Drilling Corp.		
Well	SGF-2		
Field	Sunrise		
County	Broward	State/Prv	Florida
Location	City of Sunrise Sawgrass Floridan Test Wells Concord Ter., Sunrise FL 33323 MPI/AUS	Other Services	XY/GR DIL/SP BHC/VDL
Permanent Datum	G.L.	Elevation	Elevation K.B. D.F. G.L.
Log Measured From	G.L.		
Drilling Measured From	G.L.		

Date	23-OCT-2012
Run Number	THREE
Depth Driller	980'
Depth Logger	980'
Bottom Logged Interval	972'
Top Log Interval	195'
Open Hole Size	11.875"
Type Fluid	MUD
Density / Viscosity	na/na
Max. Recorded Temp.	NA
Estimated Cement Top	SURFACE
Time Well Ready	11:00 10/22/2012
Time Logger on Bottom	14:00 10/22/2012
Equipment Number	MVGS-1
Location	Ft. Myers
Recorded By	S.Miller/C.Miller
Witnessed By	R.Miller (MPI/AUS) Rossco (FDD)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	9.875"	48'	228'				
TWO	46"	48'	228'				
THREE	11.875"	225'	980'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	48"	0.375" WT	SURFACE	48'
Prot. String	36"	0.375" WT	SURFACE	225'
Production String				
Liner			10x/.pdf/.las	fddsunr2.db
Invoice No. 2012211		P.O. :	Job No.:	* Field Print *

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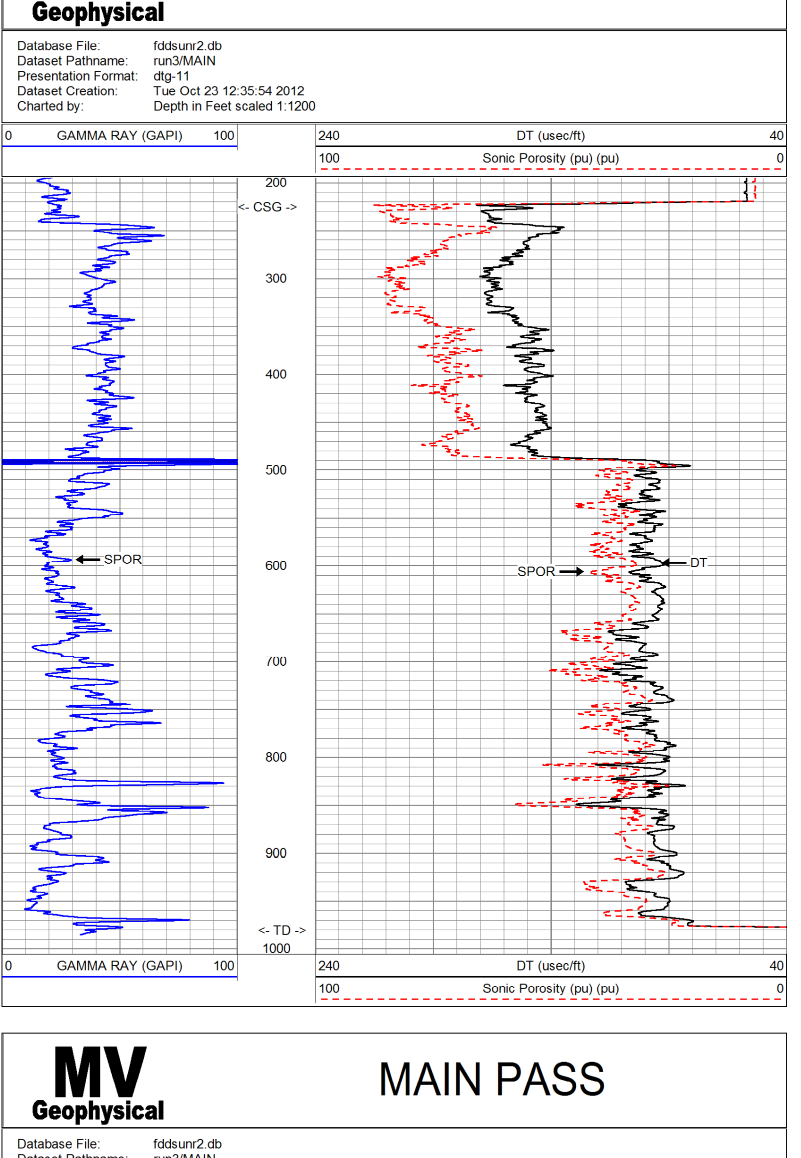
Comments

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

BHC Sonic tool was run centralized.

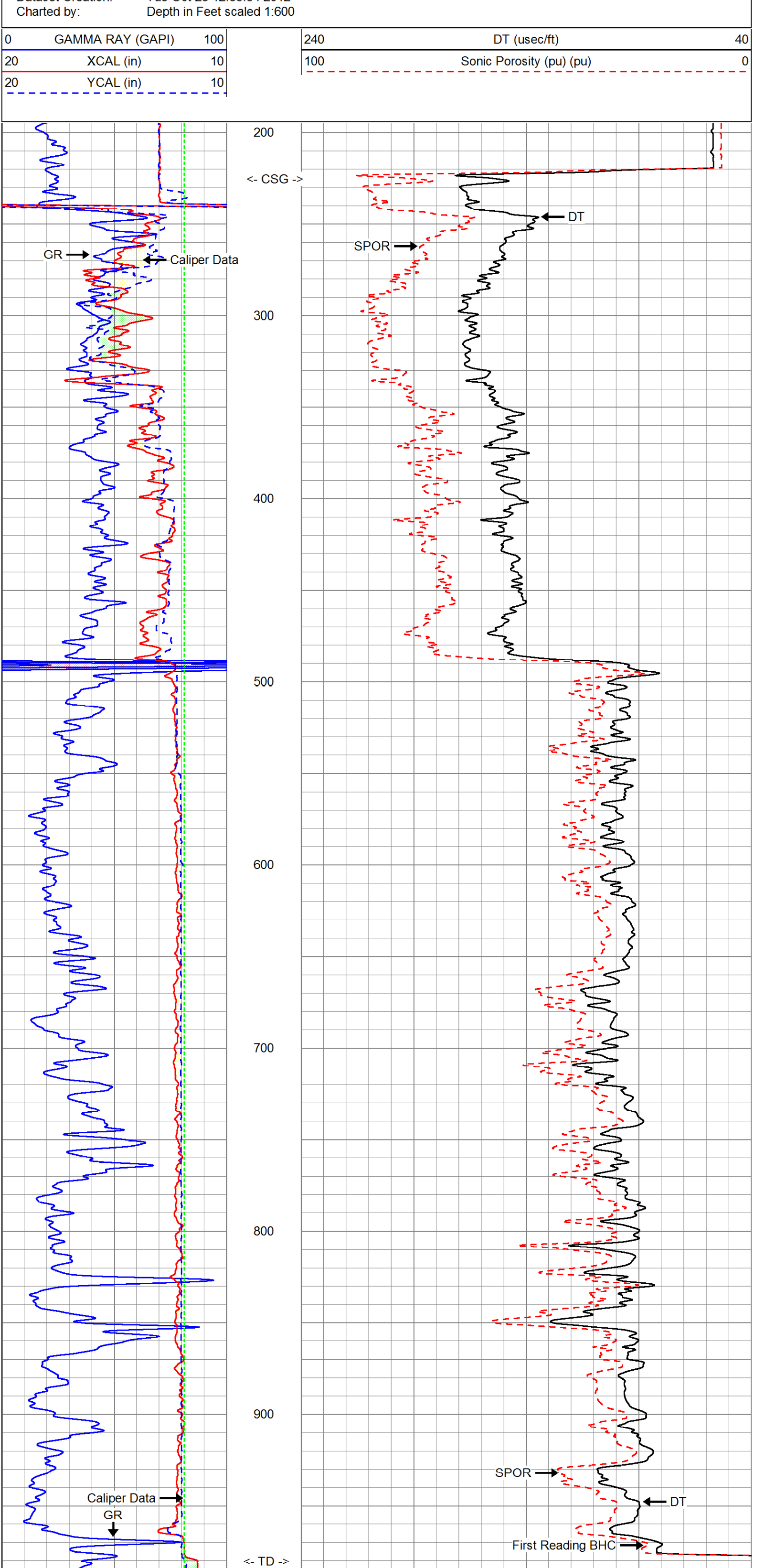
MV Geophysical — MAIN PASS

Database File:	fddsunr2.db
Dataset Pathname:	run3/MAIN
Presentation Format:	dtg-11
Dataset Creation:	Tue Oct 23 12:35:54 2012
Charted by:	Depth in Feet scaled 1:1200



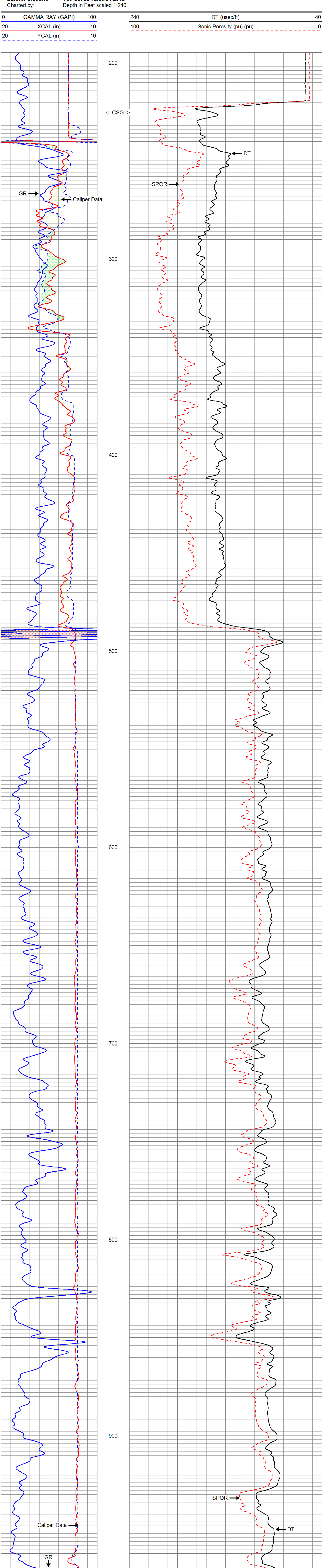
MV Geophysical — MAIN PASS

Database File:	fddsunr2.db
Dataset Pathname:	run3/MAIN
Presentation Format:	dtxy12g1
Dataset Creation:	Tue Oct 23 12:35:54 2012
Charted by:	Depth in Feet scaled 1:600



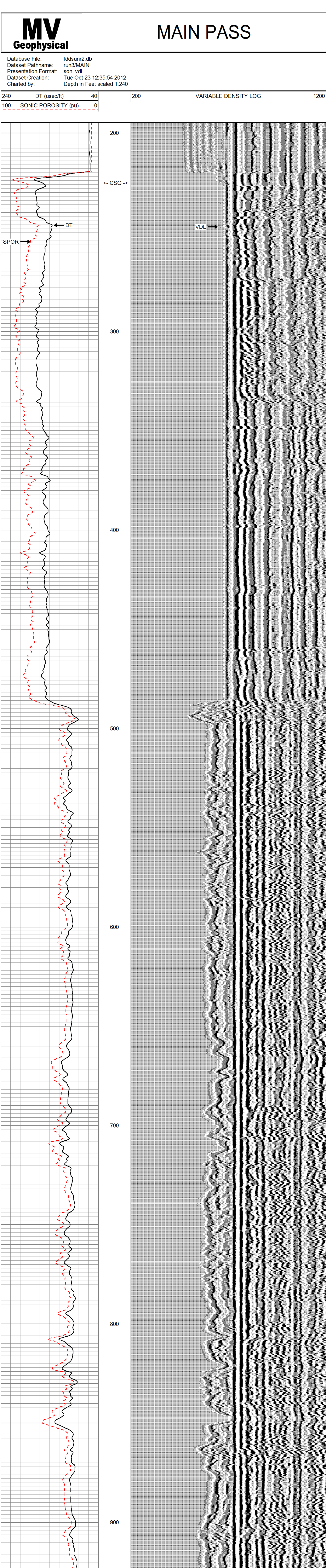
MV Geophysical — MAIN PASS

Database File:	fddsunr2.db
Dataset Pathname:	run3/MAIN
Presentation Format:	dtxy12g1
Dataset Creation:	Tue Oct 23 12:35:54 2012
Charted by:	Depth in Feet scaled 1:240



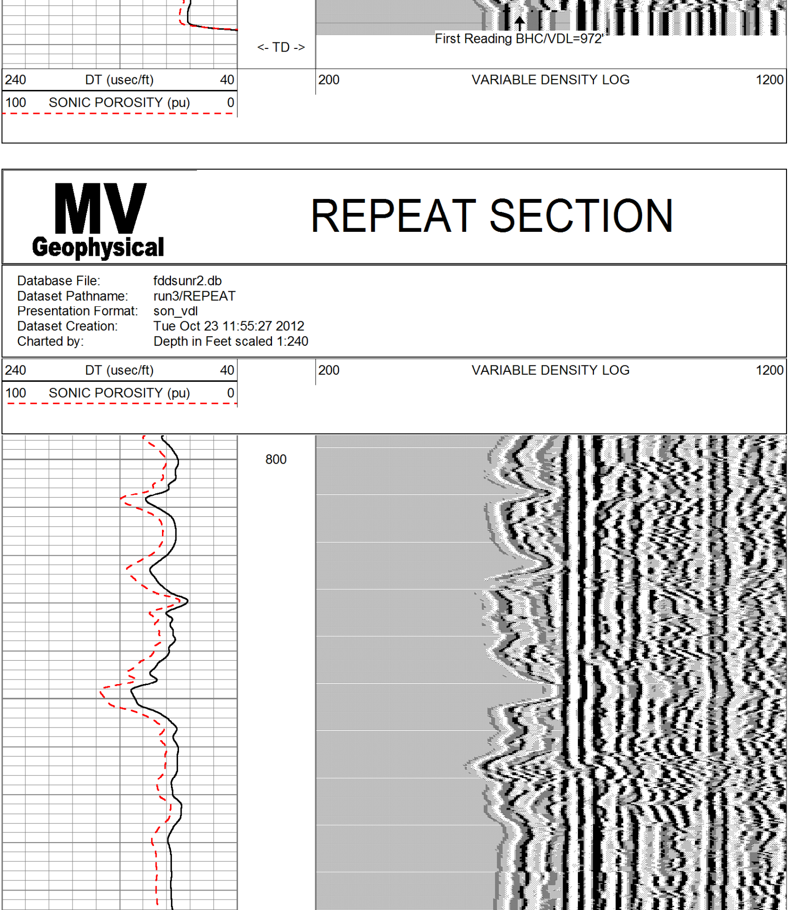
MV Geophysical — MAIN PASS

Database File:	fddsunr2.db
Dataset Pathname:	run3/MAIN
Presentation Format:	son_vdl
Dataset Creation:	Tue Oct 23 12:35:54 2012
Charted by:	Depth in Feet scaled 1:240



MV Geophysical — REPEAT SECTION

Database File:	fddsunr2.db
Dataset Pathname:	run3/REPEAT
Presentation Format:	son_vdl
Dataset Creation:	Tue Oct 23 11:55:27 2012
Charted by:	Depth in Feet scaled 1:240



Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
WVF1	8.50		SLT-GO (245)	16.00	3.50	127.00
WVF3	8.50					
TT1	7.50					
TT2	7.50					
TT3	7.50					
TT4	7.50					
WVF2	6.50					
WVF4	6.50					

Dataset:	fddsunr2.db: field/well/run3/pass9
Total Length:	16.00 ft
Total Weight:	127.00 lb
O.D.	3.50 in

MV Geophysical

Company	Florida Design Drilling Corp.		
Well	SGF-2		
Field	Sunrise		
County	Broward		
State	Florida	Country	USA

MV Geophysical

Company: Florida Design Drilling Corp
Well: SGF-2
Field: Broward
County: Broward
State: Florida
Country: USA

DATA ACQUISITION LOG

Comments

Rmf=2.967 ohmm at @ 62.2 degF

MV Geophysical

MAIN PASS

Database File: hobucci.db
Dataset Pathname: pass1
Presentation Format: main
Dataset Creation: Sat Oct 31 22:39:54 2015
Charted by: Depth in Feet scaled 1:240

Surface Readings: Cal: Sat Oct 31 11:50:01 2015

Bore Hole Record: Bit Size: 12.25 in

Casing Record: OD: 9.625 in

Run 1: Run 2:

Run 3:

Run 4:

Run 5:

Run 6:

Run 7:

Run 8:

Run 9:

Run 10:

Run 11:

Run 12:

Run 13:

Run 14:

Run 15:

Run 16:

Run 17:

Run 18:

Run 19:

Run 20:

Run

MV Geophysical

X-Y CALIPER GAMMA RAY LOG

Company	Florida Design Drilling Corp.
Well	SGF-2
Field	Sunrise
County	Broward
State/Prv	Florida

Company	Florida Design Drilling Corp.
Well	SGF-2
Field	Sunrise
County	Broward
State/Prv	Florida
Location	City of Sunrise Sawgrass Floridan Test Wells, Concord Ter., Sunrise FL 33323, MPI/AUS
Other Services	XY/GR, DIL/SP, BHC/VDL
Permanent Datum	G.L.
Log Measured From	G.L.
Drilling Measured From	G.L.
Elevation	K.B. / D.F. / G.L.

Date	23-OCT-2012
Run Number	THREE
Depth Driller	980'
Depth Logger	980'
Bottom Logged Interval	980'
Top Log Interval	SURFACE
Open Hole Size	11.875"
Type Fluid	MUD
Density / Viscosity	na/na
Max. Recorded Temp.	NA
Estimated Cement Top	SURFACE
Time Well Ready	11:00 10/22/2012
Time Logger on Bottom	11:15 10/22/2012
Equipment Number	MVGS-1
Location	Ft. Myers
Recorded By	S.Miller/C.Miller
Witnessed By	R.Miller (MPI/AUS) / Rossco (FDD)

Borehole Record Run Number	Bit	From	To	Tubing Record Size	Weight	From	To
ONE	9.875"	48'	228'				
TWO	46"	48'	228'				
THREE	11.875"	225'	980'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	48"	0.375" WT	SURFACE	48'
Prot. String	36"	0.375" WT	SURFACE	225'
Production String				
Liner			10x/.pdf/.las	fddsunr2.db

Invoice No. 201211 | P.O.: | Job No.: | * Field Print *

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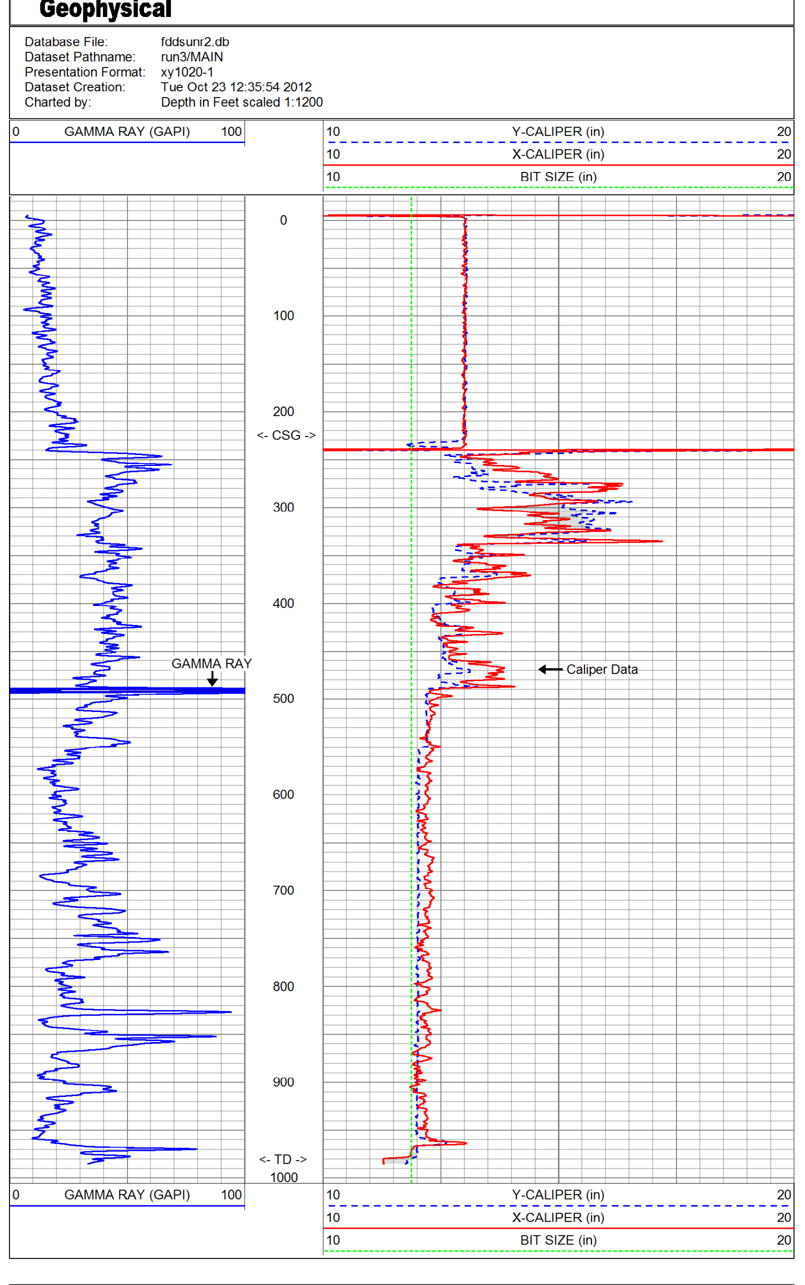
Comments

X-Y Caliper Arm Extensions: 33"

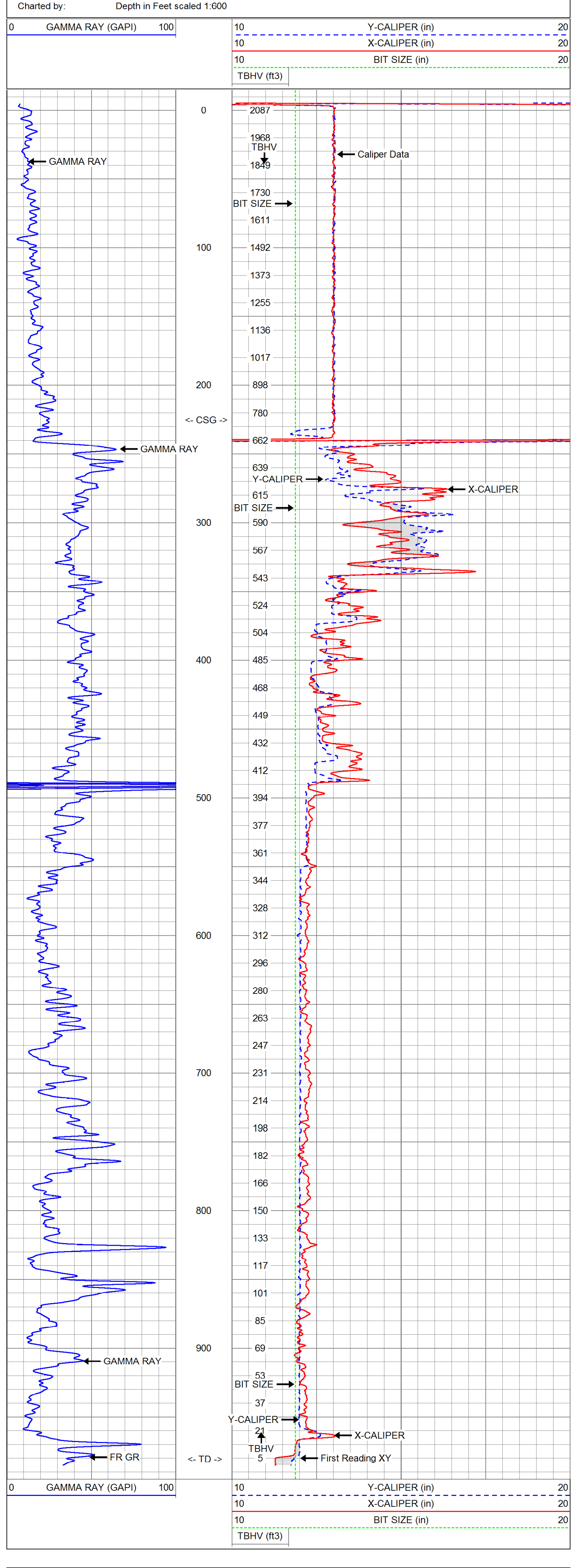
MV Geophysical — MAIN PASS

Database File: fddsunr2.db
Dataset Pathname: run3/MAIN
Presentation Format: xy1020-1
Dataset Creation: Tue Oct 23 12:35:54 2012
Charted by: Depth in Feet scaled 1:1200



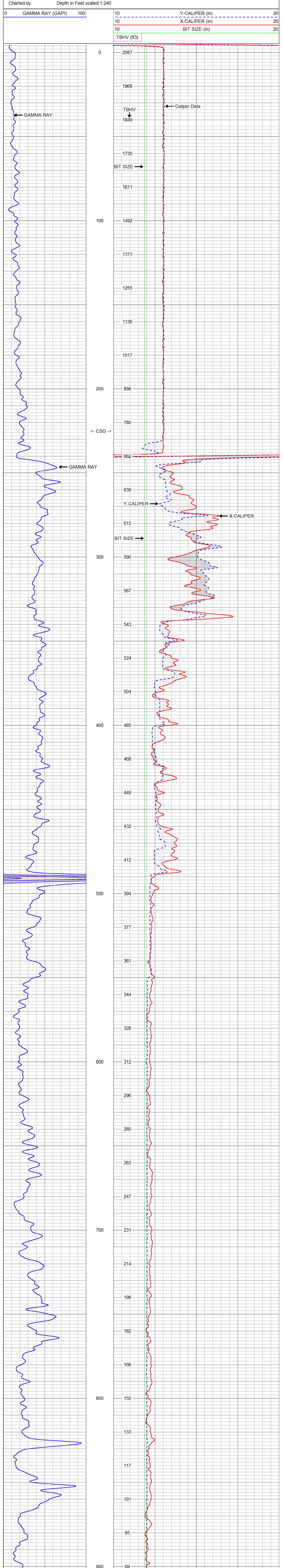
MV Geophysical — MAIN PASS

Database File: fddsunr2.db
Dataset Pathname: run3/MAIN
Presentation Format: xy1020-5
Dataset Creation: Tue Oct 23 12:35:54 2012
Charted by: Depth in Feet scaled 1:600



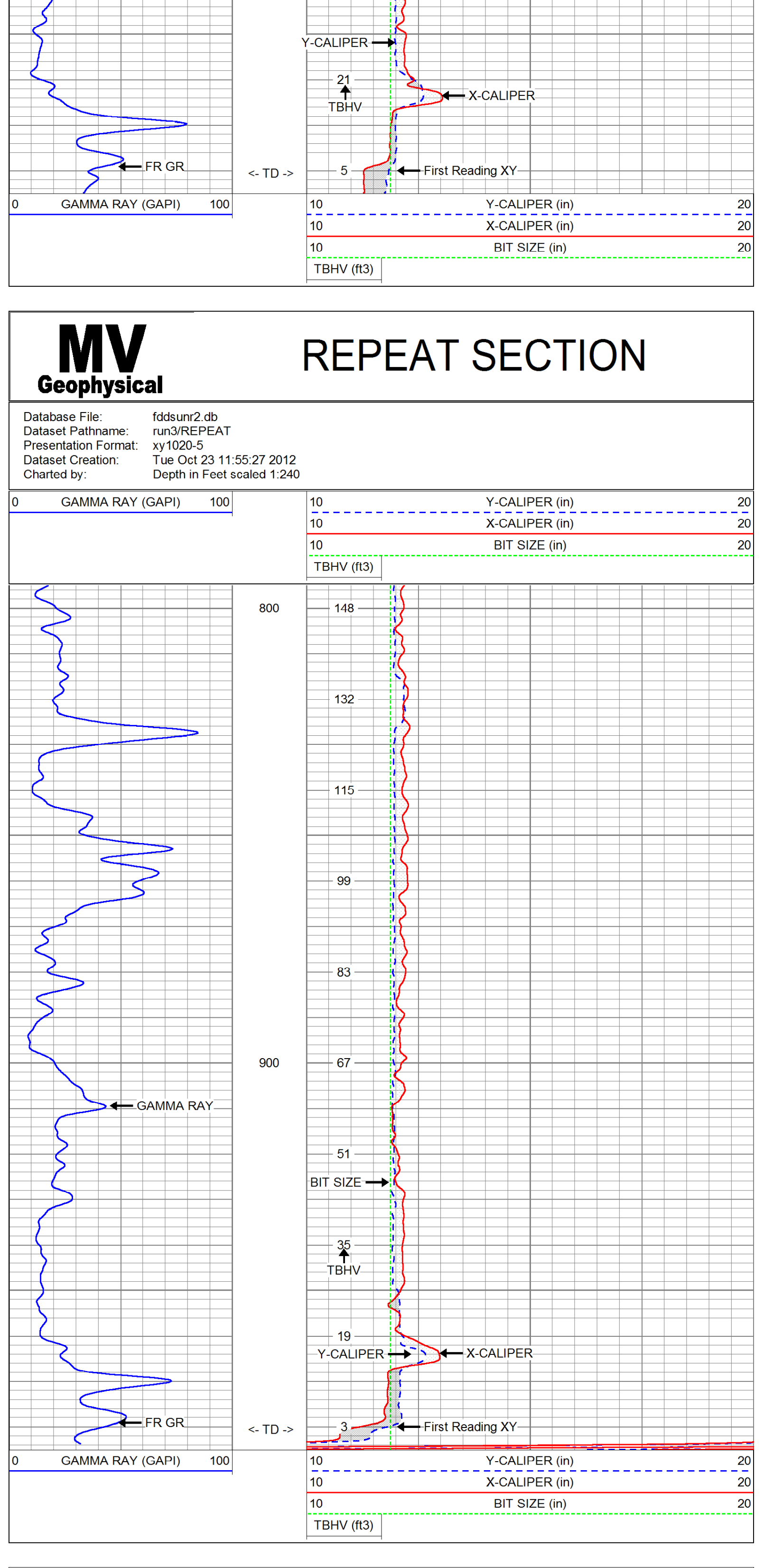
MV Geophysical — MAIN PASS

Database File: fddsunr2.db
Dataset Pathname: run3/MAIN
Presentation Format: xy1020-5
Dataset Creation: Tue Oct 23 12:35:54 2012
Charted by: Depth in Feet scaled 1:240



MV Geophysical — REPEAT SECTION

Database File: fddsunr2.db
Dataset Pathname: run3/REPEAT
Presentation Format: xy1020-5
Dataset Creation: Tue Oct 23 11:55:27 2012
Charted by: Depth in Feet scaled 1:240



Calibration Report

Database File: fddsunr2.db
Dataset Pathname: run3/pass2
Dataset Creation: Tue Oct 23 11:36:48 2012 by Log VER_5.3

XY Caliper Calibration Report

Serial Number:	01S		
Tool Model:	XYCS		
Performed:	Tue Oct 23 11:58:10 2012		
Small Ring:	11.875	in	
Large Ring:	33	in	
	X Caliper	Y Caliper	
Reading with Small Ring:	668.5	649.5	cps
Reading with Large Ring:	1117	1064.5	cps
Gain:	0.0471014	0.0509036	
Offset:	-19.6123	-21.1869	

Gamma Ray Calibration Report

Serial Number:	01	
Tool Model:	GROH	
Performed:	Tue Oct 23 11:57:15 2012	
Calibrator Value:	120	GAPI
Background Reading:	12.147	cps
Calibrator Reading:	135.258	cps
Sensitivity:	0.97473	GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			GR-GROH (01)	2.75	3.50	40.00
GR	5.00					
			XYC-XYCS (01S)	6.60	3.50	110.00
XCAL	0.50					
YCAL	0.50					

Dataset: fddsunr2.db: field/well/run3/pass2
Total Length: 9.35 ft
Total Weight: 150.00 lb
O.D.: 3.50 in

MV Geophysical

Company	Florida Design Drilling Corp.
Well	SGF-2
Field	Sunrise
County	Broward
State	Florida
Country	USA

MV Geophysical

X-Y CALIPER GAMMA RAY LOG

Company	Florida Design Drilling Corp.
Well	SGF-2
Field	Sunrise
County	Broward
State/Prv	Florida

Company Florida Design Drilling Corp.
Well SGF-2
Field Sunrise
County Broward State/Prv Florida

Location
City of Sunrise Sawgrass Floridan Test Wells
Concord Ter., Sunrise FL 33323
MPI/AUS

Other Services: NONE

Permanent Datum	G.L.	Elevation		K.B.
Log Measured From	G.L.			D.F.
Drilling Measured From	G.L.			G.L.

Date	7-NOV-2012
Run Number	FOUR
Depth Driller	1012'
Depth Logger	1013'
Bottom Logged Interval	1011'
Top Log Interval	SURFACE
Open Hole Size	35"
Type Fluid	MUD
Density / Viscosity	na/na
Max. Recorded Temp.	NA
Estimated Cement Top	SURFACE
Time Well Ready	16:30 11/7/2012
Time Logger on Bottom	17:00 11/7/2012
Equipment Number	MVGS-1
Location	Ft. Myers
Recorded By	S.Miller/C.Miller
Witnessed By	B.Scott (MPI/AUS) | Rossco (FDD)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	9.875"	48'	228'				
TWO	46"	48'	228'				
THREE	11.875"	225'	980'				
FOUR	35"	225'	1012'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	48"	0.375" WT	SURFACE	48'
Prot. String	36"	0.375" WT	SURFACE	225'
Production String				
Liner			10x/.pdf/.las	fddsunr2.db

Invoice No. 2012224		P.O. :	Job No.:	* Field 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

X-Y Caliper Arm Extensions: 51"

FUTURE CASING SIZE: 28" OD

BOREHOLE VOLUME CALCULATIONS IN BARRELS.

MV Geophysical

MAIN PASS

Database File:	fddsunr2.db
Dataset Pathname:	run4/main
Presentation Format:	xy3050b5
Dataset Creation:	Wed Nov 07 18:35:38 2012
Charted by:	Depth in Feet scaled 1:240

0 GAMMA RAY (GAPI) 100
ABAR (bbl)
30 Y-CALIPER (in) 50
30 X-CALIPER (in) 50
30 BIT SIZE (in) 50
TBAR (bbl)

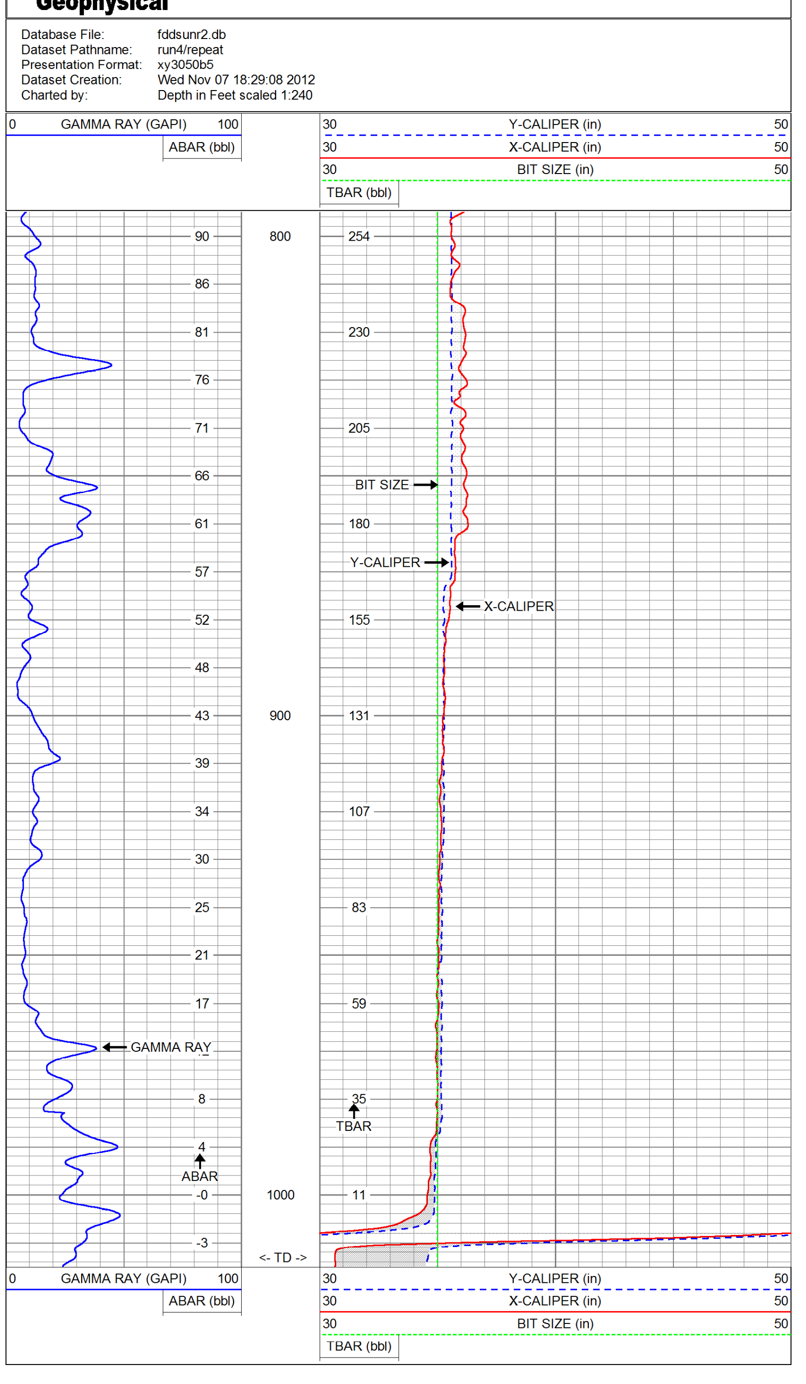
0 GAMMA RAY (GAPI) 100
ABAR (bbl)
30 Y-CALIPER (in) 50
30 X-CALIPER (in) 50
30 BIT SIZE (in) 50
TBAR (bbl)

MV Geophysical

REPEAT SECTION

Database File:	fddsunr2.db
Dataset Pathname:	run4/repeat
Presentation Format:	xy3050b5
Dataset Creation:	Wed Nov 07 18:29:08 2012
Charted by:	Depth in Feet scaled 1:240

0 GAMMA RAY (GAPI) 100
ABAR (bbl)
30 Y-CALIPER (in) 50
30 X-CALIPER (in) 50
30 BIT SIZE (in) 50
TBAR (bbl)



0 GAMMA RAY (GAPI) 100
ABAR (bbl)
30 Y-CALIPER (in) 50
30 X-CALIPER (in) 50
30 BIT SIZE (in) 50
TBAR (bbl)

Calibration Report

Database File:	fddsunr2.db
Dataset Pathname:	run4/pass2
Dataset Creation:	Wed Nov 07 17:39:03 2012 by Log VER_5.3

XY Caliper Calibration Report

Serial Number:	01L		
Tool Model:	XYCL		
Performed:	Wed Nov 07 17:06:55 2012		
Small Ring:	35	in	
Large Ring:	51	in	
	X Caliper	Y Caliper	
Reading with Small Ring:	878	828	cps
Reading with Large Ring:	1121.2	1061	cps
Gain:	0.0657895	0.0686695	
Offset:	-22.7632	-21.8584	

Gamma Ray Calibration Report

Serial Number:	01	
Tool Model:	GROH	
Performed:	Wed Nov 07 17:38:54 2012	
Calibrator Value:	120	GAPI
Background Reading:	12.477	cps
Calibrator Reading:	132.587	cps
Sensitivity:	0.999084	GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			GR-GROH (01)	2.75	3.50	40.00
GR	7.60					
			XYC-XYCL (01L)	6.60	3.50	87.00
XCAL	2.25					
YCAL	2.25					

Dataset:	fddsunr2.db: field/well/run4/pass1
Total Length:	9.35 ft
Total Weight:	127.00 lb
O.D.	3.50 in

MV Geophysical

Company	Florida Design Drilling Corp.		
Well	SGF-2		
Field	Sunrise		
County	Broward		
State	Florida	Country	USA

MV Geophysical

X-Y CALIPER
GAMMA RAY
LOG

Company Florida Design Drilling Corp.
Well SGF-2
Field Sunrise
County Broward
State/Prv Florida

Company City of Sunrise Sawgrass Floridan Test Wells
Field Concord Area WATER FL 33323
County BROWARD
State/Prv Florida

Permanent Datum: G.L.
Log Measured From: K.B.
Drilling Measured From: K.B.

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

XY/GR Depth Reference: DUSP Elevation

Date: 10/22/2012
Run No.: 2
Depth Driller: 457
Schlum. Depth: 457
Bottom Log Interval: 457
Top Log Interval: Surface
Casing Driller: 24 @ 0
Casing Schlum: 24 @ 0
BHT: 85
Time Since Circ.: 2 Hrs
Max. Rec. Temp.: 85
Equip. Location: 1
Recorded By: Mike Gonzalez
Witnessed By: Mr. Hall

Run No. 1 | Run No. 2 | Run No. 3
Bit Size: 22 | 22 | 22
Type Fluid: Water | Water | Water
Density: 8.4 | 8.4 | 8.4
Visc.: 28 | 28 | 28
pH: 7.5 | 7.5 | 7.5
Fluid Loss: 0 | 0 | 0
Source: Tank | Tank | Tank
Rm @ Meas. Temp.: 0.5 @ 85 | 0.5 @ 85 | 0.5 @ 85
Rmf @ Meas. Temp.: 0.5 @ 85 | 0.5 @ 85 | 0.5 @ 85
Rmc @ Meas. Temp.: 0.5 @ 85 | 0.5 @ 85 | 0.5 @ 85
Source Rmf & Rmc: Calc | Calc | Calc
Rm @ BHT: 0.5 @ 85 | 0.5 @ 85 | 0.5 @ 85
Time Circ. Stopped: 10:30 | 10:30 | 10:30
Time Logger on Bottom: 12:25 | 12:25 | 12:25
Max. Rec. Temp.: 85 | 85 | 85
Equip. Location: 1 | 1 | 1
Recorded By: Mike Gonzalez | Mike Gonzalez | Mike Gonzalez
Witnessed By: Mr. Hall | Mr. Hall | Mr. Hall

Run No. 1 | Run No. 2 | Run No. 3
Bit Size: 22 | 22 | 22
Type Fluid: Water | Water | Water
Density: 8.4 | 8.4 | 8.4
Visc.: 28 | 28 | 28
pH: 7.5 | 7.5 | 7.5
Fluid Loss: 0 | 0 | 0
Source: Tank | Tank | Tank
Rm @ Meas. Temp.: 0.5 @ 85 | 0.5 @ 85 | 0.5 @ 85
Rmf @ Meas. Temp.: 0.5 @ 85 | 0.5 @ 85 | 0.5 @ 85
Rmc @ Meas. Temp.: 0.5 @ 85 | 0.5 @ 85 | 0.5 @ 85
Source Rmf & Rmc: Calc | Calc | Calc
Rm @ BHT: 0.5 @ 85 | 0.5 @ 85 | 0.5 @ 85
Time Circ. Stopped: 10:30 | 10:30 | 10:30
Time Logger on Bottom: 12:25 | 12:25 | 12:25
Max. Rec. Temp.: 85 | 85 | 85
Equip. Location: 1 | 1 | 1
Recorded By: Mike Gonzalez | Mike Gonzalez | Mike Gonzalez
Witnessed By: Mr. Hall | Mr. Hall | Mr. Hall

Run No. 1 | Run No. 2 | Run No. 3
Bit Size: 22 | 22 | 22
Type Fluid: Water | Water | Water
Density: 8.4 | 8.4 | 8.4
Visc.: 28 | 28 | 28
pH: 7.5 | 7.5 | 7.5
Fluid Loss: 0 | 0 | 0
Source: Tank | Tank | Tank
Rm @ Meas. Temp.: 0.5 @ 85 | 0.5 @ 85 | 0.5 @ 85
Rmf @ Meas. Temp.: 0.5 @ 85 | 0.5 @ 85 | 0.5 @ 85
Rmc @ Meas. Temp.: 0.5 @ 85 | 0.5 @ 85 | 0.5 @ 85
Source Rmf & Rmc: Calc | Calc | Calc
Rm @ BHT: 0.5 @ 85 | 0.5 @ 85 | 0.5 @ 85
Time Circ. Stopped: 10:30 | 10:30 | 10:30
Time Logger on Bottom: 12:25 | 12:25 | 12:25
Max. Rec. Temp.: 85 | 85 | 85
Equip. Location: 1 | 1 | 1
Recorded By: Mike Gonzalez | Mike Gonzalez | Mike Gonzalez
Witnessed By: Mr. Hall | Mr. Hall | Mr. Hall

Run No. 1 | Run No. 2 | Run No. 3
Bit Size: 22 | 22 | 22
Type Fluid: Water | Water | Water
Density: 8.4 | 8.4 | 8.4
Visc.: 28 | 28 | 28
pH: 7.5 | 7.5 | 7.5
Fluid Loss: 0 | 0 | 0
Source: Tank | Tank | Tank
Rm @ Meas. Temp.: 0.5 @ 85 | 0.5 @ 85 | 0.5 @ 85
Rmf @ Meas. Temp.: 0.5 @ 85 | 0.5 @ 85 | 0.5 @ 85
Rmc @ Meas. Temp.: 0.5 @ 85 | 0.5 @ 85 | 0.5 @ 85
Source Rmf & Rmc: Calc | Calc | Calc
Rm @ BHT: 0.5 @ 85 | 0.5 @ 85 | 0.5 @ 85
Time Circ. Stopped: 10:30 | 10:30 | 10:30
Time Logger on Bottom: 12:25 | 12:25 | 12:25
Max. Rec. Temp.: 85 | 85 | 85
Equip. Location: 1 | 1 | 1
Recorded By: Mike Gonzalez | Mike Gonzalez | Mike Gonzalez
Witnessed By: Mr. Hall | Mr. Hall | Mr. Hall

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Comments

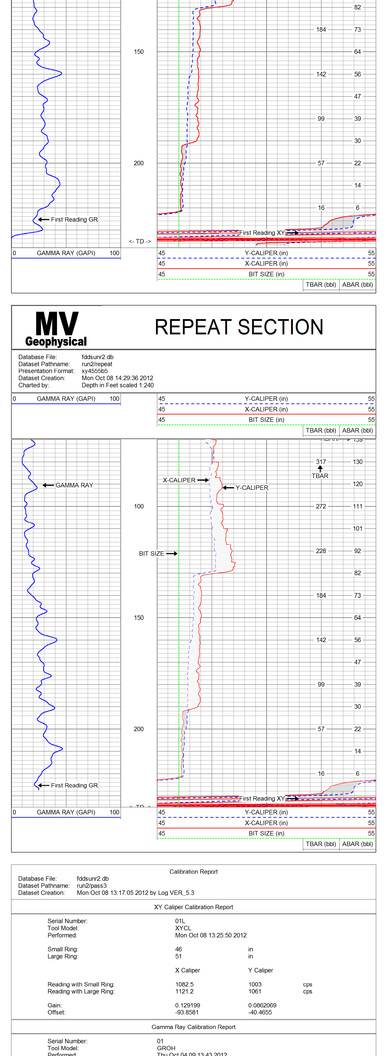
X-Y Caliper Arm Extensions: 51"

FUTURE CASING SIZE: 36" OD

MV Geophysical

MAIN PASS

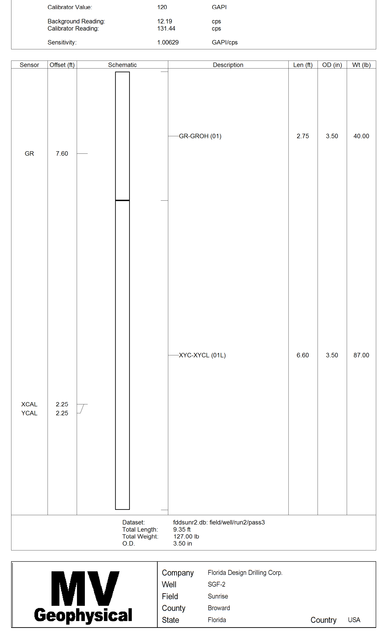
Database File: fddsurv2.db
Dataset Pathname: run2main
Presentation Format: xy455b5
Dataset Creation: Mon Oct 08 14:22:25 2012
Charted by: Depth in Feet scaled 1:240



MV Geophysical

REPEAT SECTION

Database File: fddsurv2.db
Dataset Pathname: run2repeat
Presentation Format: xy455b5
Dataset Creation: Mon Oct 08 14:29:36 2012
Charted by: Depth in Feet scaled 1:240



Calibration Report

Database File: fddsurv2.db
Dataset Pathname: run2pass3
Dataset Creation: Mon Oct 08 13:17:05 2012 by Log VER_5.3

XY Caliper Calibration Report

Serial Number:	01L		
Tool Model:	XYCL		
Performed:	Mon Oct 08 13:25:50 2012		
Small Ring:	46	in	
Large Ring:	51	in	
	X Caliper	Y Caliper	
Reading with Small Ring:	1082.5	1003	cps
Reading with Large Ring:	1121.2	1061	cps
Gain:	0.129199	0.0602069	
Offset:	-93.8581	-40.4655	

Gamma Ray Calibration Report

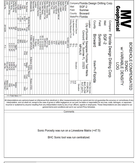
Serial Number:	01	
Tool Model:	GROH	
Performed:	Thu Oct 04 09:13:43 2012	
Calibrator Value:	120	GAPI
Background Reading:	12.19	cps
Calibrator Reading:	131.44	cps
Sensitivity:	1.00629	GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
GR	7.60		GR-GROH (01)	2.75	3.50	40.00
			XYC-XYCL (01L)	6.60	3.50	87.00
XCAL	2.25					
YCAL	2.25					

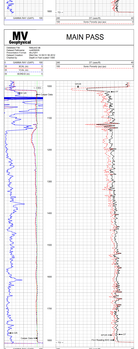
Dataset: fddsurv2.db: field/well/run2/pass3
Total Length: 9.35 ft
Total Weight: 127.00 lb
O.D. 3.50 in

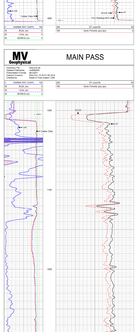
MV Geophysical

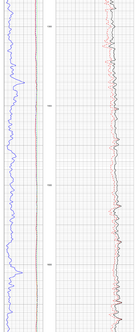
Company	Florida Design Drilling Corp.
Well	SGF-2
Field	Sunrise
County	Broward
State	Florida
Country	USA

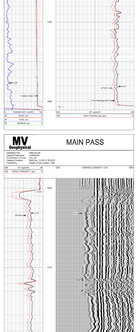

MV Geophysical
Client: Florida Design Drilling Corp.
Contract: 2019-01
Job: Bradford
Location: Bradford County, Florida
Date: 10/15/2019
Time: 08:00:00
Operator: Mike Vanderbilt
Rig: Mobile B-59
Bit: 6 3/4" Tricone
Mud: Fresh Water
Hole Size: 6 3/4"
Casing: 6" SCH 40 PVC
Total Depth: 1,000'
Water Level: 42'
Yield: 350 GPM
Pump: Submersible
Comments:
Some Porosity was run at a Limestone Matrix (HT 1).
BHC Sonic tool was not celebrated.

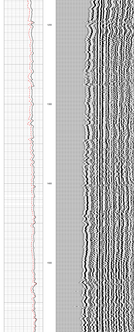
MV Geophysical
MAIN PASS
Client: Florida Design Drilling Corp.
Contract: 2019-01
Job: Bradford
Location: Bradford County, Florida
Date: 10/15/2019
Time: 08:00:00
Operator: Mike Vanderbilt
Rig: Mobile B-59
Bit: 6 3/4" Tricone
Mud: Fresh Water
Hole Size: 6 3/4"
Casing: 6" SCH 40 PVC
Total Depth: 1,000'
Water Level: 42'
Yield: 350 GPM
Pump: Submersible
Comments:
Some Porosity was run at a Limestone Matrix (HT 1).
BHC Sonic tool was not celebrated.

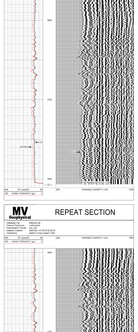

MV Geophysical
MAIN PASS
Client: Florida Design Drilling Corp.
Contract: 2019-01
Job: Bradford
Location: Bradford County, Florida
Date: 10/15/2019
Time: 08:00:00
Operator: Mike Vanderbilt
Rig: Mobile B-59
Bit: 6 3/4" Tricone
Mud: Fresh Water
Hole Size: 6 3/4"
Casing: 6" SCH 40 PVC
Total Depth: 1,000'
Water Level: 42'
Yield: 350 GPM
Pump: Submersible
Comments:
Some Porosity was run at a Limestone Matrix (HT 1).
BHC Sonic tool was not celebrated.


MV Geophysical
MAIN PASS
Client: Florida Design Drilling Corp.
Contract: 2019-01
Job: Bradford
Location: Bradford County, Florida
Date: 10/15/2019
Time: 08:00:00
Operator: Mike Vanderbilt
Rig: Mobile B-59
Bit: 6 3/4" Tricone
Mud: Fresh Water
Hole Size: 6 3/4"
Casing: 6" SCH 40 PVC
Total Depth: 1,000'
Water Level: 42'
Yield: 350 GPM
Pump: Submersible
Comments:
Some Porosity was run at a Limestone Matrix (HT 1).
BHC Sonic tool was not celebrated.


MV Geophysical
MAIN PASS
Client: Florida Design Drilling Corp.
Contract: 2019-01
Job: Bradford
Location: Bradford County, Florida
Date: 10/15/2019
Time: 08:00:00
Operator: Mike Vanderbilt
Rig: Mobile B-59
Bit: 6 3/4" Tricone
Mud: Fresh Water
Hole Size: 6 3/4"
Casing: 6" SCH 40 PVC
Total Depth: 1,000'
Water Level: 42'
Yield: 350 GPM
Pump: Submersible
Comments:
Some Porosity was run at a Limestone Matrix (HT 1).
BHC Sonic tool was not celebrated.


MV Geophysical
MAIN PASS
Client: Florida Design Drilling Corp.
Contract: 2019-01
Job: Bradford
Location: Bradford County, Florida
Date: 10/15/2019
Time: 08:00:00
Operator: Mike Vanderbilt
Rig: Mobile B-59
Bit: 6 3/4" Tricone
Mud: Fresh Water
Hole Size: 6 3/4"
Casing: 6" SCH 40 PVC
Total Depth: 1,000'
Water Level: 42'
Yield: 350 GPM
Pump: Submersible
Comments:
Some Porosity was run at a Limestone Matrix (HT 1).
BHC Sonic tool was not celebrated.


MV Geophysical
MAIN PASS
Client: Florida Design Drilling Corp.
Contract: 2019-01
Job: Bradford
Location: Bradford County, Florida
Date: 10/15/2019
Time: 08:00:00
Operator: Mike Vanderbilt
Rig: Mobile B-59
Bit: 6 3/4" Tricone
Mud: Fresh Water
Hole Size: 6 3/4"
Casing: 6" SCH 40 PVC
Total Depth: 1,000'
Water Level: 42'
Yield: 350 GPM
Pump: Submersible
Comments:
Some Porosity was run at a Limestone Matrix (HT 1).
BHC Sonic tool was not celebrated.


MV Geophysical
MAIN PASS
Client: Florida Design Drilling Corp.
Contract: 2019-01
Job: Bradford
Location: Bradford County, Florida
Date: 10/15/2019
Time: 08:00:00
Operator: Mike Vanderbilt
Rig: Mobile B-59
Bit: 6 3/4" Tricone
Mud: Fresh Water
Hole Size: 6 3/4"
Casing: 6" SCH 40 PVC
Total Depth: 1,000'
Water Level: 42'
Yield: 350 GPM
Pump: Submersible
Comments:
Some Porosity was run at a Limestone Matrix (HT 1).
BHC Sonic tool was not celebrated.

MV Geophysical
REPEAT SECTION
Client: Florida Design Drilling Corp.
Contract: 2019-01
Job: Bradford
Location: Bradford County, Florida
Date: 10/15/2019
Time: 08:00:00
Operator: Mike Vanderbilt
Rig: Mobile B-59
Bit: 6 3/4" Tricone
Mud: Fresh Water
Hole Size: 6 3/4"
Casing: 6" SCH 40 PVC
Total Depth: 1,000'
Water Level: 42'
Yield: 350 GPM
Pump: Submersible
Comments:
Some Porosity was run at a Limestone Matrix (HT 1).
BHC Sonic tool was not celebrated.

MV Geophysical
Client: Florida Design Drilling Corp.
Contract: 2019-01
Job: Bradford
Location: Bradford County, Florida
Date: 10/15/2019
Time: 08:00:00
Operator: Mike Vanderbilt
Rig: Mobile B-59
Bit: 6 3/4" Tricone
Mud: Fresh Water
Hole Size: 6 3/4"
Casing: 6" SCH 40 PVC
Total Depth: 1,000'
Water Level: 42'
Yield: 350 GPM
Pump: Submersible
Comments:
Some Porosity was run at a Limestone Matrix (HT 1).
BHC Sonic tool was not celebrated.

MV Geophysical
Client: Florida Design Drilling Corp.
Contract: 2019-01
Job: Bradford
Location: Bradford County, Florida
Date: 10/15/2019
Time: 08:00:00
Operator: Mike Vanderbilt
Rig: Mobile B-59
Bit: 6 3/4" Tricone
Mud: Fresh Water
Hole Size: 6 3/4"
Casing: 6" SCH 40 PVC
Total Depth: 1,000'
Water Level: 42'
Yield: 350 GPM
Pump: Submersible
Comments:
Some Porosity was run at a Limestone Matrix (HT 1).
BHC Sonic tool was not celebrated.

MV Geophysical
Client: Florida Design Drilling Corp.
Contract: 2019-01
Job: Bradford
Location: Bradford County, Florida
Date: 10/15/2019
Time: 08:00:00
Operator: Mike Vanderbilt
Rig: Mobile B-59
Bit: 6 3/4" Tricone
Mud: Fresh Water
Hole Size: 6 3/4"
Casing: 6" SCH 40 PVC
Total Depth: 1,000'
Water Level: 42'
Yield: 350 GPM
Pump: Submersible
Comments:
Some Porosity was run at a Limestone Matrix (HT 1).
BHC Sonic tool was not celebrated.

MV Geophysical
Client: Florida Design Drilling Corp.
Contract: 2019-01
Job: Bradford
Location: Bradford County, Florida
Date: 10/15/2019
Time: 08:00:00
Operator: Mike Vanderbilt
Rig: Mobile B-59
Bit: 6 3/4" Tricone
Mud: Fresh Water
Hole Size: 6 3/4"
Casing: 6" SCH 40 PVC
Total Depth: 1,000'
Water Level: 42'
Yield: 350 GPM
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Water Level: 42'
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Pump: Submersible
Comments:
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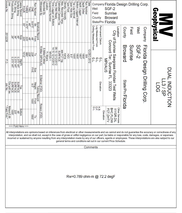


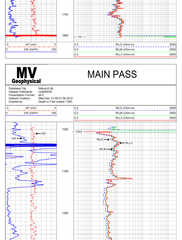
All interpretations and conclusions as to the presence or absence of gas, hydrocarbons and any and/or all of its components that may occur in, or be produced from, the formations penetrated by the subject well are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretation or opinion and we shall not 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 as set out in our current Price Schedule.

CONTENTS

Run #2.789 shots-in @ 12.2 deg/f

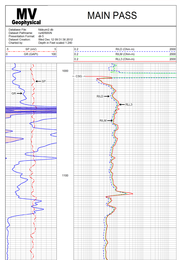
MAIN PASS

Company/Tool: MVGeo#2.99
Contact/Tool/Job: 20220315
Operator/Witness:
Contact Comment:
Depth Control: Real-Time, 12:30:51 08-2012
Contact Log: Depth in Feet scaled 1:200



MAIN PASS

Company/Tool: MVGeo#2.99
Contact/Tool/Job: 20220315
Operator/Witness:
Contact Comment:
Depth Control: Real-Time, 12:30:51 08-2012
Contact Log: Depth in Feet scaled 1:200



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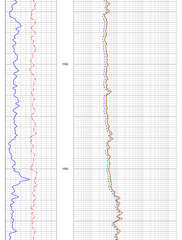
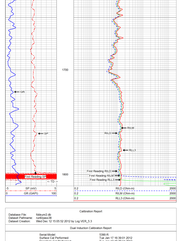
Contact/Tool/Job: 20220315
Operator/Witness:
Contact Comment:
Depth Control: Real-Time, 12:30:51 08-2012
Contact Log: Depth in Feet scaled 1:200



REPEAT SECTION

Company/Tool: MVGeo#2.99
Contact/Tool/Job: 20220315
Operator/Witness:
Contact Comment:
Depth Control: Real-Time, 12:30:51 08-2012
Contact Log: Depth in Feet scaled 1:200



Database File: MVGeo#2.99
Dataset Pathname: wellbore #1
Presentation Format: Dual Induction
Dataset Creation: 15:50:50 08-2012 by Log VIEW_5.7

Dual Induction Calibration Report

Serial Model
Calibration Performed
Run into Hole
Logging Speed
Calibration Performed

SONDE
Tue Jan 17 15:39:41 2012
Tue Jan 17 15:39:41 2012
Tue Jan 17 15:39:41 2012

Surface Calibration

	Readings			Accuracy	References		Results	
Limit	Air	Limit		Air	Limit		m	b
Slope	0.000	0.000	V	0.000	490.000	mmho-m	613.461	34.563
Medium	0.719	0.719	V	0.000	490.000	mmho-m	547.151	11.340
Interval				Zero	Cal		m	b
Slope	0.000	0.000	V	0.000	490.000	mmho-m	613.461	34.563
Deep	0.000	0.719	V	0.000	490.000	mmho-m	632.808	0.000

Downhole Calibration

	Readings			Accuracy	References		Results	
Interval	Zero	Cal		Zero	Cal		m	b
Deep	41.108	76.385	mmho-m	40.560	77.000	mmho-m	0.995	0.975
Medium	41.108	76.385	mmho-m	40.560	77.000	mmho-m	0.995	0.975
Shallow				40.560	77.000	mmho-m	1.000	0.000

After Survey Verification

	Readings			Accuracy	Targets		Results	
Interval	Zero	Cal		Zero	Cal		m	b
Deep	0.000	0.000	mmho-m	40.560	0.000	mmho-m	0.995	0.975
Medium	0.000	0.000	mmho-m	40.560	0.000	mmho-m	0.995	0.975
Shallow				40.560	0.000	mmho-m	1.000	0.000

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)
CILD Ref	10.00 10.00		CIL-R (5350)	20.00	4.00
CILM	5.00				
RLL3	1.70		Dataset: MVGeo#2.99 Run: 1 of 1 Logged: 12:30:51 08-2012 Scale: 1:200		

Company	Florida Design Drilling Corp
Well	SDF-2
Field	Sunset
County	Broward
State	Florida
Country	USA

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Comments

STATIC and DYNAMIC down passes were performed.
Cw =12.670uS/cm @ 72.2 degC @ 0+1,875.gpm.
FLUID RESISTIVITY CALIBRATION REPORT (Performed: 8-DEC-12 09:15)

uS/cm	CPS
1,220.3	2510.33
20,370	1901.91
149,410	1548.31

TEMPERATURE CALIBRATION REPORT (Performed: 8-DEC-12 09:45)

DEG F	CPS
38.9	147.815
148.9	2690.25

S/D MERGED FCT

Database File: fddsurv2.db
Dataset Pathname: run6/SDFCT
Presentation Format: fctubo
Dataset Creation: Wed 5-Dec-12 12:15:42 2012
Charted by: Depth in Feet scaled 1:240

DYNAMIC FC (uS/cm) 0 20000
STATIC FC (uS/cm) 0 20000
SFC (uS/cm)
DFC (uS/cm)

STATIC TEMPERATURE (degF) 68 79
DYNAMIC TEMPERATURE (degF) 68 79
-0.5 S Delta T (degF) 0.5
-0.5 D Delta T (degF) 0.5
STEMP (degF)
DTEMP (degF)

19671	12632		74.8
19530	12672		74.8
19340	12660		74.7
18978	12684		74.7
18413	12692		74.6
SFC			
17574	12867	1000	74.2
	12909	<- CSG ->	
14721	12895		74.2
12803	12837		73.2
11568	12863		72.5
SFC	DFC		
11221	12924		72.1
11333	13057		72.0
11301	13109		72.0
11360	13322		72.0
11363	13335		72.0
11371	13345		71.9
11239	13336	1100	72.0
11400	13357		72.0
11409	13632		72.0
11398	13700		72.0
11401	13818		71.9
11412	13683		72.0
11406	13869		72.0
11400	13874		72.0
11362	13855		72.0
11372	13868	1200	72.0
11374	13883		72.0
11326	13879		71.9
11360	13871		72.0
11294	13897		71.9
11329	13894		71.9
11347	13752		72.0
11354	13213		71.9
11313	13097		72.0
11246	12999		71.9
11217	12939	1300	71.9
11133	12902		71.9
11196	13028		71.9
11092	13028		71.9
11089	13000		72.0
11054	12963		71.9
11071	12877		71.9
11005	12854		72.0
11005	12848		71.9
11012	12850		71.9
10993	12834	1400	71.9
11008	12845		71.9
11026	12841		72.0
11022	12844		72.0
11037	12842		71.9
11030	12676		72.0
11026	12239		71.9
11043	12071		71.9
11039	12144		71.9
11050	12127		71.9
11041	12123	1500	71.9
11050	11950		71.9
11045	11844		71.9
11070	11812		71.9
11062	11795		71.9
11066	11743		71.9
11075	11728		71.9
11047	11778		71.9
10971	11313		72.0
10812	11311		71.9
10691	11302	1600	72.0
10723	11295		71.9
10711	11059		71.9
10613	11027		71.9
10606	11036		71.9
10581	10815		71.8
10136	10757		71.9
10171	10453		71.8
9677	9981		71.9
9594	9797		71.8
9478	9711		71.7
9095	9360	1700	71.6
STEMP	DTEMP		
8335	8551		71.6
7659	8181		71.5
7576	7931		71.4
7543	7830		71.4
7410	7704		71.4
SFC	DFC		
7240	7052		71.4
7044	6912		71.4
6631	6963		71.3
DFC			
6564	6697		71.3
6480	6697	1800	71.2
		<- TD ->	
2617			71.2

DYNAMIC FC (uS/cm) 0 20000
STATIC FC (uS/cm) 0 20000
SFC (uS/cm)
DFC (uS/cm)

STATIC TEMPERATURE (degF) 68 79
DYNAMIC TEMPERATURE (degF) 68 79
-0.5 S Delta T (degF) 0.5
-0.5 D Delta T (degF) 0.5
STEMP (degF)
DTEMP (degF)

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CCL	4.46		CCL-MVGS 1.9 (MV01)	1.33	1.90	8.00
GR#2	1.15		GR #2 -RTSB (MV01B)	3.33	1.90	10.00
TEMP	0.10		TEMP-RTS (MV01)	0.46	1.90	2.00

Dataset: fddsurv2.db: field/wellrun6/pass5
Total Length: 5.12 ft
Total Weight: 20.00 lb
O.D: 1.90 in

MV Geophysical
Company Florida Design Drilling Corp.
Well SGF-2
Field Sunrise
County Broward
State Florida
Country USA

FLOWMETER LOG

MV Geophysical

Company	Florida Design Drilling Corp.
Well	SGF-2
Field	Sunrise
County	Broward
State/Prv	Florida
Location	City of Sunrise Sawgrass Floridan Test Wells, Concord Ter., Sunrise FL 33323, MPI/AUS
Other Services	XY/GR,DIL; BHC,FLOW; FCT,DHTV
Permanent Datum	G.L.
Log Measured From	G.L.
Drilling Measured From	G.L.
Elevation	K.B. / D.F. / G.L.

Date	12-DEC-2012
Run Number	SIX
Depth Driller	1800'
Depth Logger	1807'
Bottom Logged Interval	1807'
Top Log Interval	945'
Open Hole Size	9.5"
Type Fluid	H2O
Density / Viscosity	na/na
Max. Recorded Temp.	see FCT log
Estimated Cement Top	SURFACE
Time Well Ready	08:15 12/12/2012
Time Logger on Bottom	12:00 12/12/2012
Equipment Number	MVGS-1
Location	Ft. Myers
Recorded By	S.Miller/C.Miller
Witnessed By	R.Miller (MPI/AUS); B.Balmer (FDD); Rossco (FDD)

Borehole Record Run Number	Bit	From	To	Tubing Record Size	Weight	From	To
ONE	9.875"	48'	228'	FIVE	9.5"	1005'	1800'
TWO	46"	48'	228'				
THREE	11.875"	225'	980'				
FOUR	35"	225'	1012'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	48"	0.375" WT	SURFACE	48'
Prot. String	36"	0.375" WT	SURFACE	225'
Production String	28"	0.375" WT	SURFACE	1005'
Liner			10x/.pdf/.las	fddsun2.db
Invoice No.	2012238	P.O.:	Job No.:	* Field Print *

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Comments

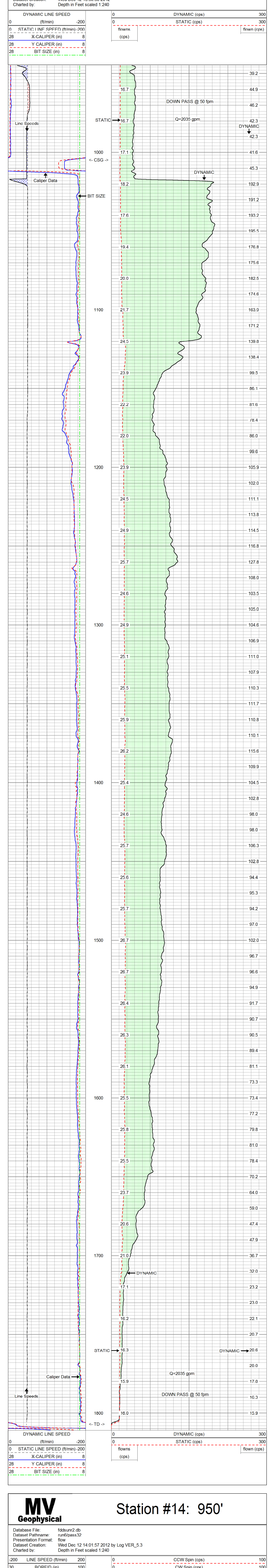
STATIC and DYNAMIC down passes were made at 50 fpm.

14 DYNAMIC and 2 STATIC stations performed.

Q =~2035 gpm

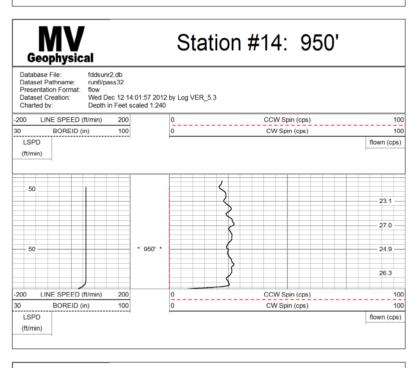
S/D DOWN @ 50 fpm

Database File: fddsunr2.db
Dataset Pathname: run6/SD50
Presentation Format: q-300
Dataset Creation: Wed Dec 12 13:30:36 2012
Charted by: Depth in Feet scaled 1:240



Station #14: 950'

Database File: fddsunr2.db
Dataset Pathname: run6/pass32
Presentation Format: flow
Dataset Creation: Wed Dec 12 14:01:57 2012 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240



Station #13: 1046'

Database File: fddsunr2.db
Dataset Pathname: run6/pass31
Presentation Format: flow
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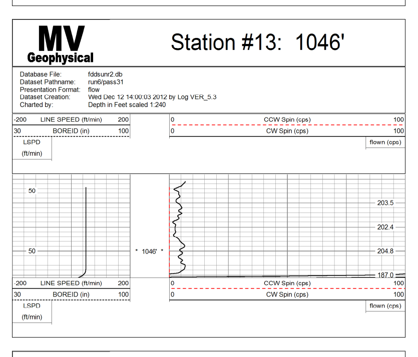
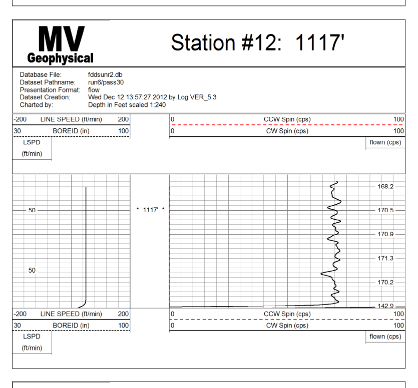
Charted by: Depth in Feet scaled 1:240



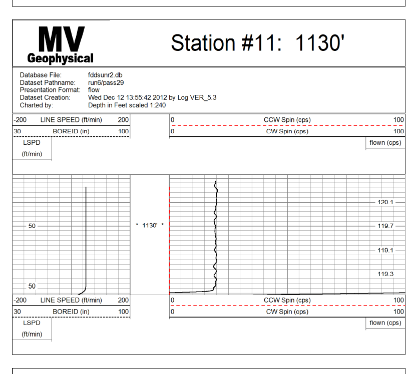
Station #12: 1117'

Database File: fddsunr2.db
Dataset Pathname: run6/pass30
Presentation Format: flow
Dataset Creation: Wed Dec 12 13:57:27 2012 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240



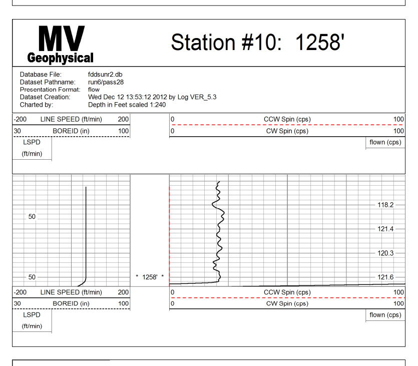
Station #11: 1130'

Database File: fddsunr2.db
Dataset Pathname: run6/pass29
Presentation Format: flow
Dataset Creation: Wed Dec 12 13:55:42 2012 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240



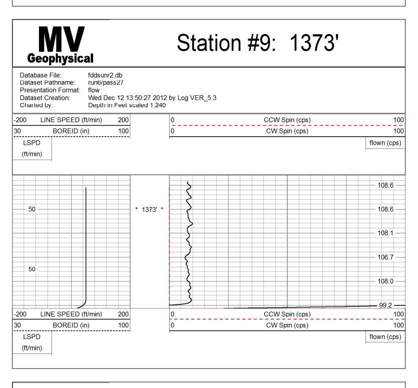
Station #10: 1258'

Database File: fddsunr2.db
Dataset Pathname: run6/pass28
Presentation Format: flow
Dataset Creation: Wed Dec 12 13:53:12 2012 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240



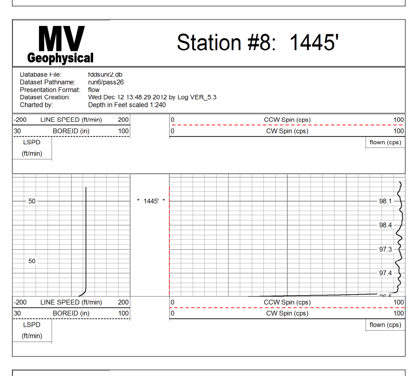
Station #9: 1373'

Database File: fddsunr2.db
Dataset Pathname: run6/pass27
Presentation Format: flow
Dataset Creation: Wed Dec 12 13:50:27 2012 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240



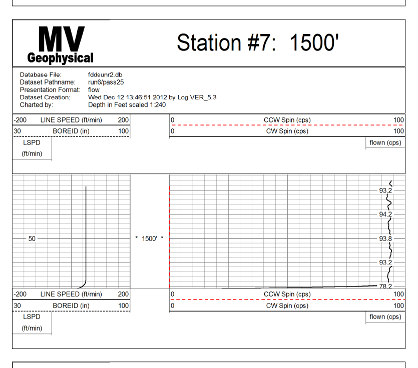
Station #8: 1445'

Database File: fddsunr2.db
Dataset Pathname: run6/pass26
Presentation Format: flow
Dataset Creation: Wed Dec 12 13:48:29 2012 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240



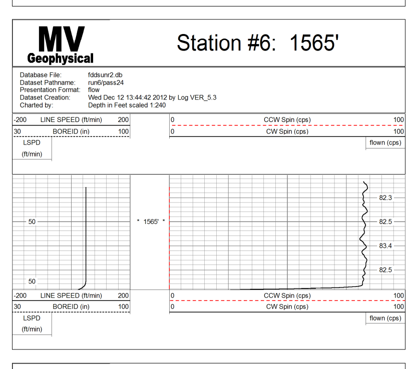
Station #7: 1500'

Database File: fddsunr2.db
Dataset Pathname: run6/pass25
Presentation Format: flow
Dataset Creation: Wed Dec 12 13:46:51 2012 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240



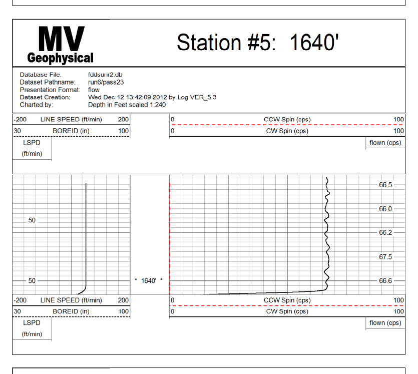
Station #6: 1565'

Database File: fddsunr2.db
Dataset Pathname: run6/pass24
Presentation Format: flow
Dataset Creation: Wed Dec 12 13:44:42 2012 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240



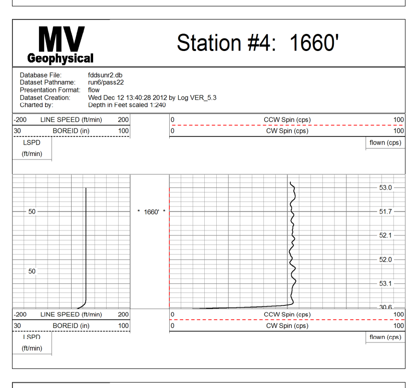
Station #5: 1640'

Database File: fddsunr2.db
Dataset Pathname: run6/pass23
Presentation Format: flow
Dataset Creation: Wed Dec 12 13:42:09 2012 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240



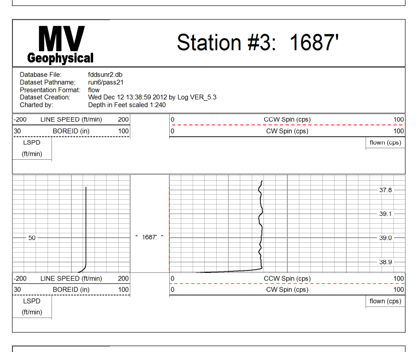
Station #4: 1660'

Database File: fddsunr2.db
Dataset Pathname: run6/pass22
Presentation Format: flow
Dataset Creation: Wed Dec 12 13:40:28 2012 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240



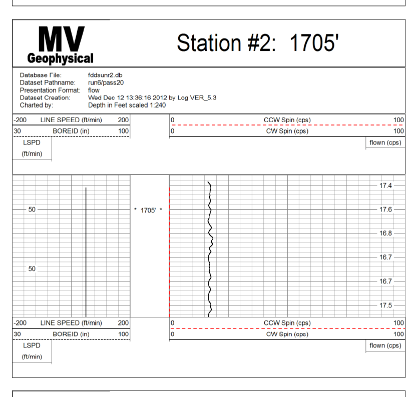
Station #3: 1687'

Database File: fddsunr2.db
Dataset Pathname: run6/pass21
Presentation Format: flow
Dataset Creation: Wed Dec 12 13:38:59 2012 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240



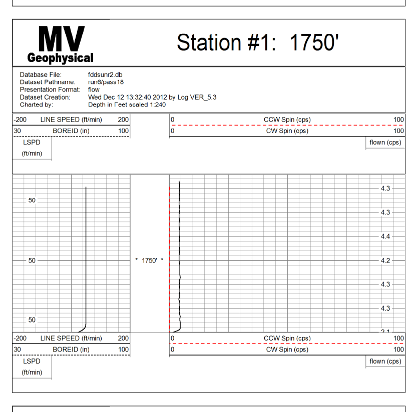
Station #2: 1705'

Database File: fddsunr2.db
Dataset Pathname: run6/pass20
Presentation Format: flow
Dataset Creation: Wed Dec 12 13:36:16 2012 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240



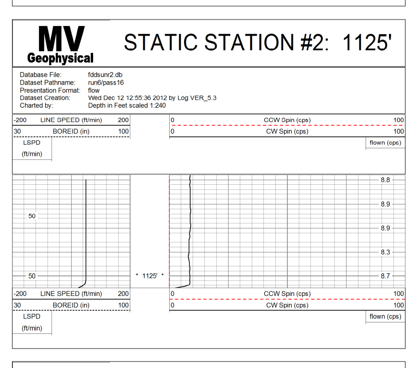
Station #1: 1750'

Database File: fddsunr2.db
Dataset Pathname: run6/pass18
Presentation Format: flow
Dataset Creation: Wed Dec 12 13:32:40 2012 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240



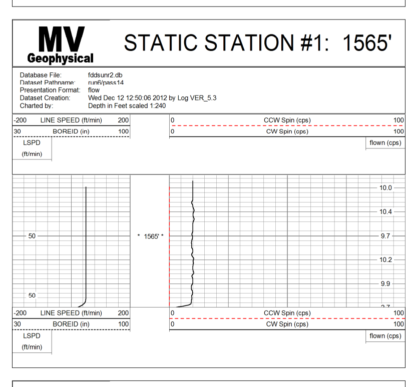
STATIC STATION #2: 1125'

Database File: fddsunr2.db
Dataset Pathname: run6/pass16
Presentation Format: flow
Dataset Creation: Wed Dec 12 12:55:36 2012 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240



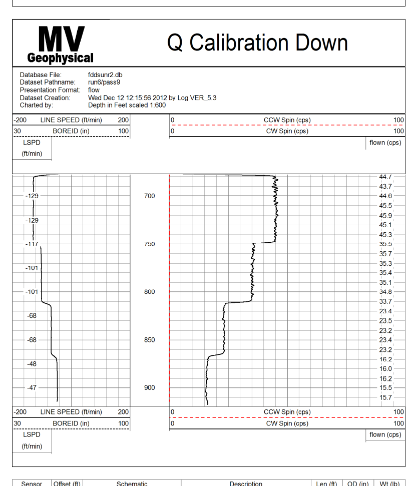
STATIC STATION #1: 1565'

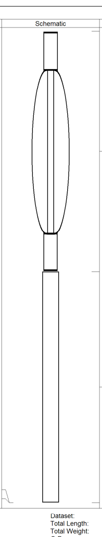
Database File: fddsunr2.db
Dataset Pathname: run6/pass14
Presentation Format: flow
Dataset Creation: Wed Dec 12 12:50:06 2012 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240



Q Calibration Down

Database File: fddsunr2.db
Dataset Pathname: run6/pass9
Presentation Format: flow
Dataset Creation: Wed Dec 12 12:15:56 2012 by Log VER_5.3
Charted by: Depth in Feet scaled 1:600



Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CENT-5FOOTSB (5FTSB)	5.00	1.69	50.00
			FLOW-LARGE (65)	4.80	3.75	35.00
FLOWP	0.00					
FLOWN	0.00					

Dataset: fddsunr2.db: field/well/run6/pass9
Total Length: 9.80 ft
Total Weight: 85.00 lb
O.D.: 3.75 in

MV Geophysical

Company	Florida Design Drilling Corp.		
Well	SGF-2		
Field	Sunrise		
County	Broward		
State	Florida	Country	USA

MV Geophysical

X-Y CALIPER GAMMA RAY LOG

Company	Florida Design Drilling Corp.
Well	SGF-2
Field	Sunrise
County	Broward
State/Prv	Florida

Company: Florida Design Drilling Corp.
Well: SGF-2
Field: Sunrise
County: Broward
State/Prv: Florida

Location: City of Sunrise Sawgrass Floridan Test Wells, Concord Ter., Sunrise FL 33323, MPI/AUS

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

Permanent Datum	G.L.	Elevation	K.B.
Log Measured From	G.L.		D.F.
Drilling Measured From	G.L.		G.L.

Date	12-DEC-2012
Run Number	SIX
Depth Driller	1800'
Depth Logger	1807'
Bottom Logged Interval	1807'
Top Log Interval	895'
Open Hole Size	9.5"
Type Fluid	H2O
Density / Viscosity	na/na
Max. Recorded Temp.	see FCT log
Estimated Cement Top	SURFACE
Time Well Ready	08:15 12/12/2012
Time Logger on Bottom	08:45 12/12/2012
Equipment Number	MVGS-1
Location	Ft. Myers
Recorded By	S.Miller/C.Miller
Witnessed By	R.Miller (MPI/AUS) B.Balmer (FDD) Rossco (FDD)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	9.875"	48'	228'	FIVE	9.5"	1005'	1800'
TWO	46"	48'	228'				
THREE	11.875"	225'	980'				
FOUR	35"	225'	1012'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	48"	0.375" WT	SURFACE	48'
Prot. String	36"	0.375" WT	SURFACE	225'
Production String	28"	0.375" WT	SURFACE	1005'
Liner			10x/.pdf/.las	fddsunr2.db
Invoice No.	2012238	P.O.:	Job No.:	* Field Print *

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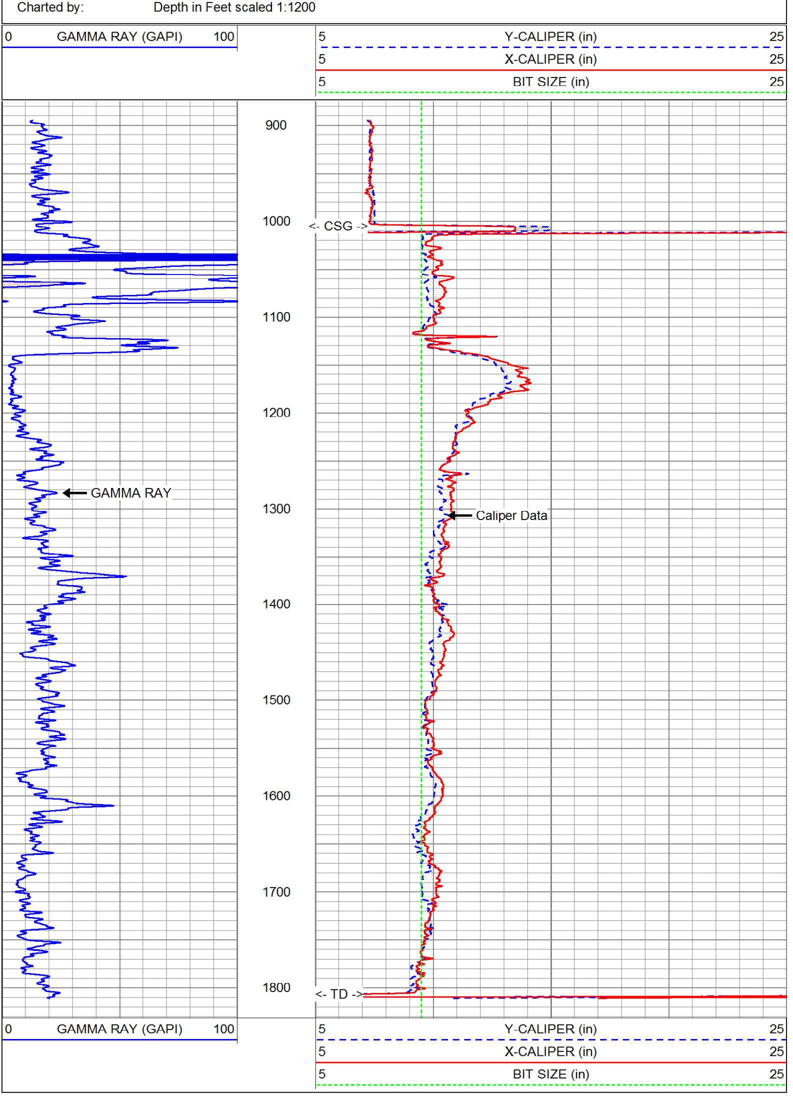
Comments

X-Y Caliper Arm Extensions: 33"

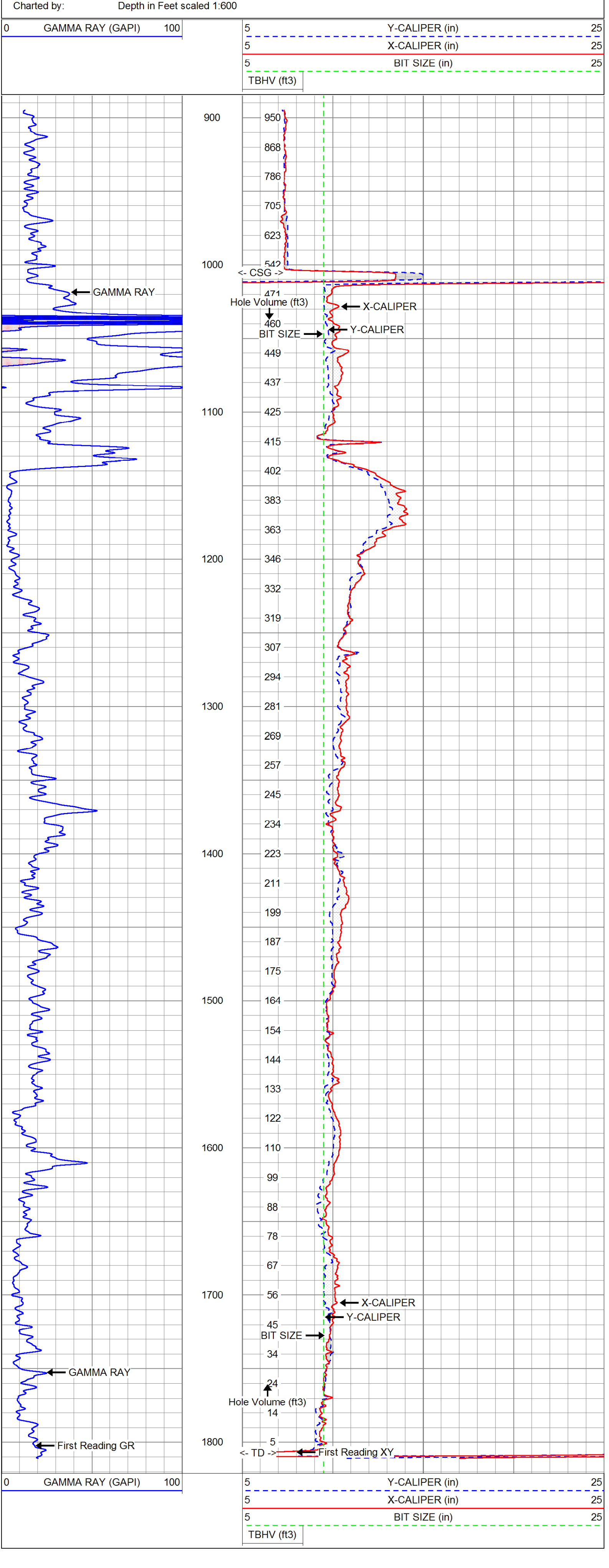
MV Geophysical — MAIN PASS

Database File: fddsunr2.db
Dataset Pathname: run6/MAIN
Presentation Format: xy525-1
Dataset Creation: Wed Dec 12 09:51:56 2012
Charted by: Depth in Feet scaled 1:1200



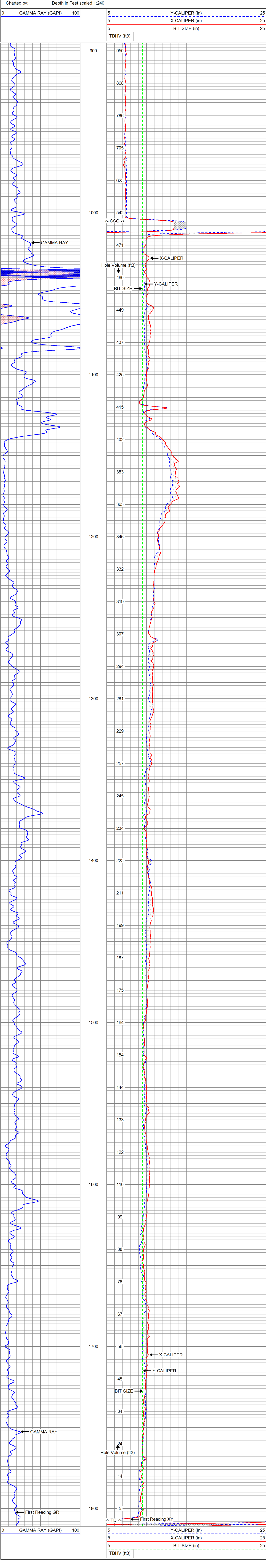
MV Geophysical — MAIN PASS

Database File: fddsunr2.db
Dataset Pathname: run6/MAIN
Presentation Format: xy525-5
Dataset Creation: Wed Dec 12 09:51:56 2012
Charted by: Depth in Feet scaled 1:600



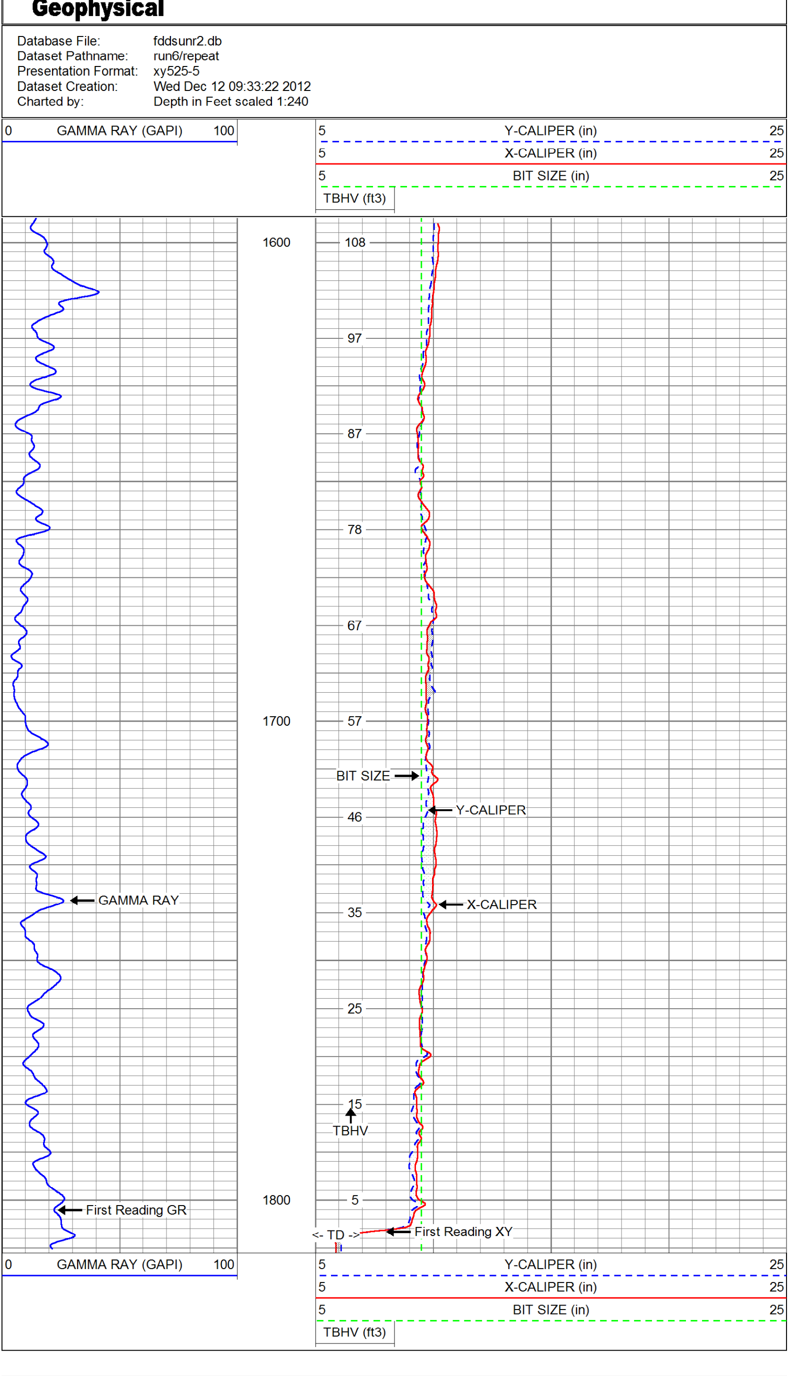
MV Geophysical — MAIN PASS

Database File: fddsunr2.db
Dataset Pathname: run6/MAIN
Presentation Format: xy525-5
Dataset Creation: Wed Dec 12 09:51:56 2012
Charted by: Depth in Feet scaled 1:240



MV Geophysical — REPEAT SECTION

Database File: fddsunr2.db
Dataset Pathname: run6/repeat
Presentation Format: xy525-5
Dataset Creation: Wed Dec 12 09:33:22 2012
Charted by: Depth in Feet scaled 1:240



Calibration Report

Database File: fddsunr2.db
Dataset Pathname: run6/pass2
Dataset Creation: Wed Dec 12 09:18:33 2012 by Log VER_5.3

XY Caliper Calibration Report

Serial Number:	01S		
Tool Model:	XYCS		
Performed:	Wed Dec 12 09:37:47 2012		
Small Ring:	9.5	in	
Large Ring:	27.25	in	
	X Caliper	Y Caliper	
Reading with Small Ring:	642	640	cps
Reading with Large Ring:	988.5	929	cps
Gain:	0.0512266	0.0614187	
Offset:	-23.3874	-29.808	

Gamma Ray Calibration Report

Serial Number:	01	
Tool Model:	GROH	
Performed:	Wed Dec 12 08:43:08 2012	
Calibrator Value:	120	GAPI
Background Reading:	13.358	cps
Calibrator Reading:	133.318	cps
Sensitivity:	1.00033	GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			GR-GROH (01)	2.75	3.50	40.00
GR	5.00					
			XYC-XYCS (01S)	6.60	3.50	110.00
XCAL	0.50					
YCAL	0.50					

Dataset: fddsunr2.db: field/well/run6/pass2
Total Length: 9.35 ft
Total Weight: 150.00 lb
O.D. 3.50 in

MV Geophysical

Company	Florida Design Drilling Corp.		
Well	SGF-2		
Field	Sunrise		
County	Broward		
State	Florida	Country	USA

MV Geophysical

Company	Florida Design Drilling Corp.
Well	SGF-2
Field	Sunrise
County	Broward
State/Prv	Florida

FLOWMETER INTERPRETATION

Company: Florida Design Drilling Corp.
Well: SGF-2
Field: Sunrise
County: Broward
State/Prv: Florida
Location: City of Sunrise Sawgrass Recycling Treat Wells Concord MP/AUS
Elevation: G.L. FT. 13323 K.B. D.F. G.L.
Other Services: BHC,FLOW, Caliper
Permanent Datum: G.L.
Log Measured From: K.B. 0 Ft. Above Perm. Datum
Drilling Measured From: G.L.

Rec. No.	Run No.	Date	Depth Driller	Depth Logger	Bottom Logged Interval	Top Logged Interval	Casing Driller	Casing Logger	Bit Size	Type Fluid in Hole	Density / Viscosity	pH / Fluid Loss	Source of Sample	Rm @ Meas. Temp.	Rmf @ Meas. Temp.	Rmc @ Meas. Temp.	Source of Rmf / Rmc	Rm @ BHT	Time Since Circ.	Max. Rec. Temp.	Equipment Number	Location	Recorded By	Witnessed By
28	2	2-Dec-12	1000	1000	1000	0	1000	1000	8	Water	8.4	7	Pit	1.5 @ 70	1.1 @ 70	1.9 @ 70	Calc	1.3 @ 120	12	120	0	Sunrise	Mr. Gil	Mr. Gil

Run No.	Bore-Record	Depth Driller	Depth Logger	Bottom Logged Interval	Top Logged Interval	Casing Driller	Casing Logger	Bit Size	Type Fluid in Hole	Density / Viscosity	pH / Fluid Loss	Source of Sample	Rm @ Meas. Temp.	Rmf @ Meas. Temp.	Rmc @ Meas. Temp.	Source of Rmf / Rmc	Rm @ BHT	Time Since Circ.	Max. Rec. Temp.	Equipment Number	Location	Recorded By	Witnessed By
1	28	1000	1000	1000	0	1000	1000	8	Water	8.4	7	Pit	1.5 @ 70	1.1 @ 70	1.9 @ 70	Calc	1.3 @ 120	12	120	0	Sunrise	Mr. Gil	Mr. Gil

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Comments

Q, %Q & Fluid Velocity presentations include a regular Line Speed and Caliper corrected only "RAW" format, and a interpretative "LOGICAL" format.
The "LOGICAL" Q, %Q & Fluid Velocity pass assumes no thief zones (i.e., Q & %Q can only increase).

STATIC and DYNAMIC down passes were made at 50 fpm.

14 DYNAMIC and 2 STATIC stations performed.

Q =~2035 gpm

MV Geophysical

Logical/Raw F.Vel., Q & %Q

Database File: fddsurv2.db
Dataset Pathname: run6\fq50
Presentation Format: flcombr
Dataset Creation: Thu Dec 13 18:06:47 2012
Charted by: Depth in Feet scaled 1:240

28	XCAL (in)	8
28	YCAL (in)	8
0	STATIC (cps)	300
0	DYNAMIC (cps)	300
28	BIT SIZE (in)	8

0	Fluid Velocity (ft/min)	1000
0	Logical Q, gpm	3000
0	Logical %Q	100
0	RAW %Q	100
0	RAW Q, gpm	3000

28	XCAL (in)	8
28	YCAL (in)	8
0	STATIC (cps)	300
0	DYNAMIC (cps)	300
28	BIT SIZE (in)	8

0	Fluid Velocity (ft/min)	1000
0	Logical Q, gpm	3000
0	Logical %Q	100
0	RAW %Q	100
0	RAW Q, gpm	3000

MV Geophysical

Company	Florida Design Drilling Corp.
Well	SGF-2
Field	Sunrise
County	Broward
State	Florida
Country	USA

MV Geophysical

TDS COMPILATION LOG

Company: Florida Design Drilling Corp.
Well: SGF-2
Field: Sunrise
County: Broward
State/Prv: Florida

Permanent Datum: Ground Level
Log Measured From: G.L.
Drilling Measured From: G.L.

Elevation: G.L. 0 ft, K.B. , D.F. , G.L.

Location: City of Sunrise Sawgrass Florida n Text Wells
Concord Terrace FL 33323
NPN/US

API No.: 12-011-20012

Sec. , Twn. , Rge.

Other Services: XYDIR,DIL, FDT,DHTY

Run Number: One
Depth Driller: 1600
Depth Logger: 1600
Bottom Logged Interval: 1600
Top Log Interval: 0
Casing Driller Size @ Depth: 8 5/8 @ 1100
Casing Logger Size @ Depth: 8 5/8 @ 1100
Bit Size: 7 7/8
Type Fluid in Hole: Water
Density: 8.33
Viscosity: 28
Ph: 7.5
Fluid Loss: 0
Source of Sample: Pit
Rm @ Meas. Temp: 0.17 @ 68
Rmf @ Meas. Temp: 0.13 @ 68
Rmc @ Meas. Temp: 0.37 @ 68
Source of Rmf / Rmc: Calc / Calc
Rm @ BHT: 0.09 @ 100
Time Circ. Ended: 08:30
Time Logger On Bottom: 11:30
Max Rec. Temp. Deg. F: 100
Equipment Number: 3
Location: Ft. Lauderdale
Recorded By: R. Mann
Witnessed By: Mr. Gonzalez

Run: One
Service Order: 33323
Type Log: TDS
Depth - Driller: 1600
Depth - Logger: 1600
Bottom Log Interval: 1600
Top Log Interval: 1100
Casing - Driller: 8 5/8 @ 1100
Casing - Logger: 8 5/8 @ 1100
Bit Size: 7 7/8
Type Fluid in Hole: Water
Density: 8.33
Viscosity: 28
Ph: 7.5
Fluid Loss: 0
Source of Sample: Pit
Rm @ Meas. Temp: 0.17 @ 68
Rmf @ Meas. Temp: 0.13 @ 68
Rmc @ Meas. Temp: 0.37 @ 68
Source of Rmf / Rmc: Calc / Calc
Rm @ BHT: 0.09 @ 100
Time Circ. Ended: 08:30
Time Logger On Bottom: 11:30
Max Rec. Temp. Deg. F: 100
Equipment Number: 3
Location: Ft. Lauderdale
Recorded By: R. Mann
Witnessed By: Mr. Gonzalez

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Comments

The TDS compilation plot is derived fromthe Dual Induction, Borehole Compensated Sonic, Fluid Conductivity and Caliper data.

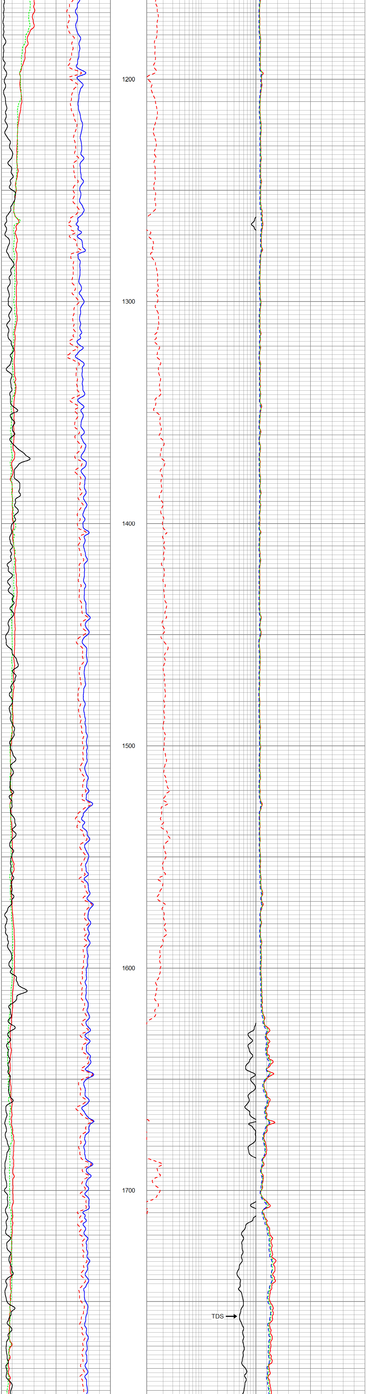
MV Geophysical

MAIN PASS

Database File: fddsunv2.db
Dataset Pathname: run6/MAIN
Presentation Format: tdsmain3
Dataset Creation: Wed Dec 12 09:51:56 2012
Charted by: Depth in Feet scaled 1:240

240 Delta T (usec/ft) 40
100 spor (pu) 0
8 XCAL (in) 28
8 YCAL (in) 28
0 Gamma Ray (GAPI) 200

100 TDS (ppm) 10000 0 RLL3 (Ohm-m) 100
10000 TDS (ppm) 1e+006 0 RILM (Ohm-m) 100
0 RILD (Ohm-m) 100



240 Delta T (usec/ft) 40
100 spor (pu) 0
8 XCAL (in) 28
8 YCAL (in) 28
0 Gamma Ray (GAPI) 200

100 TDS (ppm) 10000 0 RLL3 (Ohm-m) 100
10000 TDS (ppm) 1e+006 0 RILM (Ohm-m) 100
0 RILD (Ohm-m) 100

MV Geophysical

Company: Florida Design Drilling Corp.
Well: SGF-2
Field: Sunrise
County: Broward
State: Florida
Country: USA

Company Florida Design Drilling Corp.
Well SDF-2
Field Sumter
County Broward
State Florida

MV Geophysical

Company Florida Design Drilling Corp.
Well SDF-2
Field Sumter
County Broward
State Florida

X-Y CALIPER GAMMA RAY

Comments

X-Y Caliper Arm Extension: 51"

FUTURE CASING SIZE: 11" OD

BOREHOLE VOLUME CALCULATIONS IN BARRELS

MAIN PASS

Database File: Niblock2.db
Dataset Pathname: run7/MAIN
Presentation Format: xy_caliper
Dataset Creation: Mon Jan 21 15:46:27 2013
Charted by: Depth in Feet scaled 1:240

GAMMA RAY (GAPI) 150 | Y CALIPER (in) 10 | X CALIPER (in) 10 | RPT SIZE (in) 30 | TMAN (MB)

Caliper Data

Y CALIPER

X CALIPER

Fluid Reading 37.5MB

REPEAT SECTION

Database File: Niblock2.db
Dataset Pathname: run7/REPEAT
Presentation Format: xy2Dcal
Dataset Creation: Mon Jan 21 15:16:22 2013
Charted by: Depth in Feet scaled 1:240

GAMMA RAY (GAPI) 150 | Y CALIPER (in) 10 | X CALIPER (in) 10 | RPT SIZE (in) 30 | TMAN (MB)

Y CALIPER

X CALIPER

Calibration Report

Database File: Niblock2.db
Dataset Pathname: run7/CAL3
Dataset Creation: Mon Jan 21 15:11:38 2013 by Log VCAL3

XY Caliper Calibration Report

Serial Number	574	
Cal Head	XY-CAL	
Performed	Mon Jan 21 15:36:31 2013	
Small Ring	27.25	in
Large Ring	51	in
	X Caliper	Y Caliper
Reading with Small Ring	760.5	n/a
Reading with Large Ring	1169.2	1022.9
Gain	0.018939	0.001559
Offset	-13.39466	-27.6811

Gamma Ray Calibration Report

Serial Number	23	
Cal Head	GR-CAL	
Performed	Mon Jan 14 11:38:24 2013	
Calibrator Value	120	GAPI
Background Reading	12.537	cps
Calibrator Reading	134.333	cps
Sensitivity	0.864103	GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
GR	7.60		GR-GROH (01)	2.75	3.50	40.00
XCAL	2.25		XYC-XYCL (01L)	6.80	3.50	57.00
YCAL	2.25					

Dataset Niblock2.db: fieldheadrun7/pass2
Total Length 5,224 ft
Total Weight 127.00 lb
Max OD 3.50 in

MV Geophysical

Company Florida Design Drilling Corp.
Well SDF-2
Field Sumter
County Broward
State Florida
Country USA