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

MV Geophysical

DUAL INDUCTION LL3 / SP 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 Ave., Sunrise FL 33323 MPI/AUS
Other Services	XY/GR DIL/SP

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

Invoice No. 2012199
P.O.:
10x/.pdf/.las
Job No.: fddsunr2.db
* Field Print *

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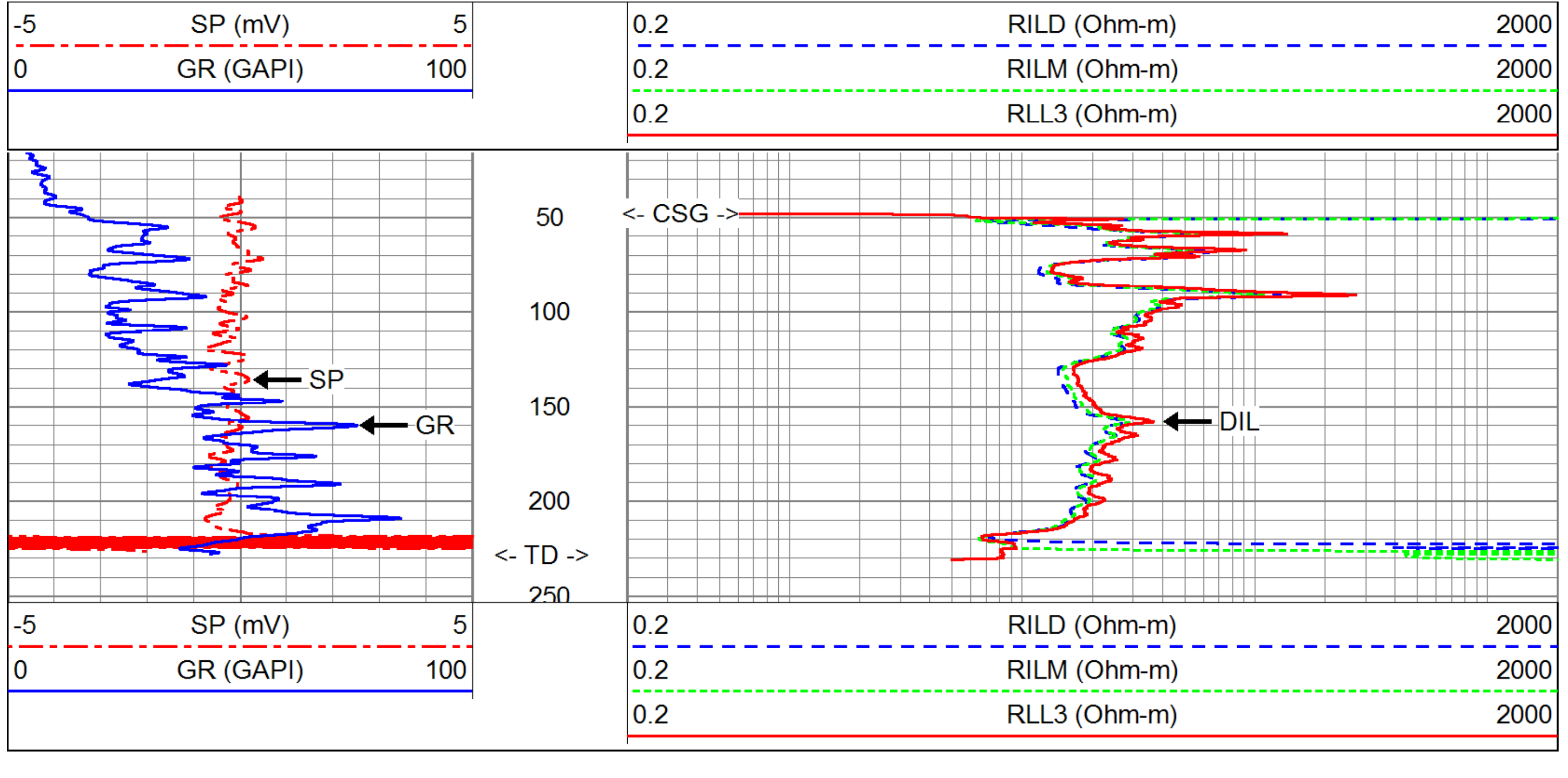
Comments

Rm=5.167 ohm-m @ 98.2 degF

MV Geophysical

MAIN PASS

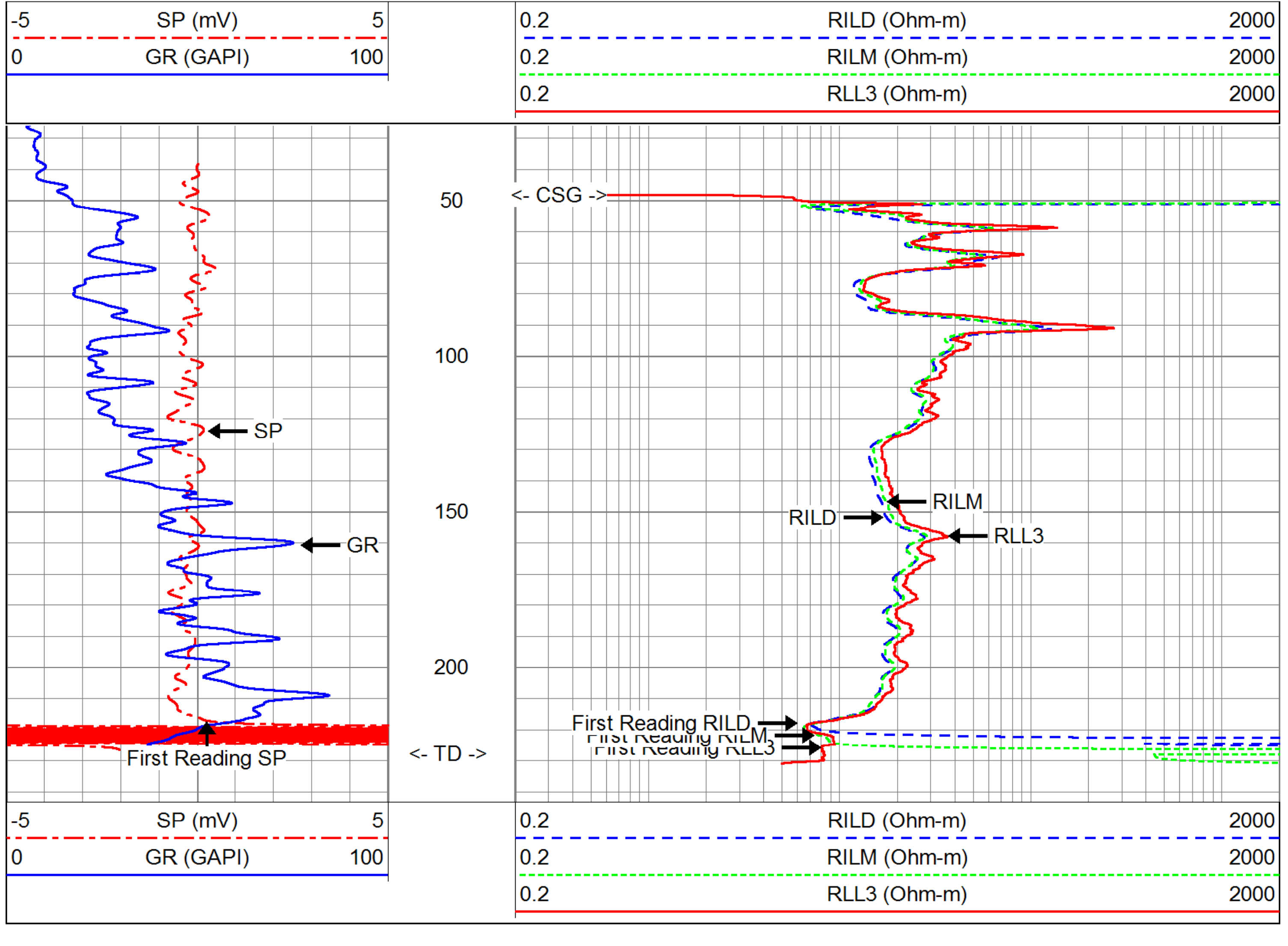
Database File: fddsunr2.db
Dataset Pathname: MAIN
Presentation Format: dil-1
Dataset Creation: Thu Sep 27 15:20:03 2012
Charted by: Depth in Feet scaled 1:1200



MV Geophysical

MAIN PASS

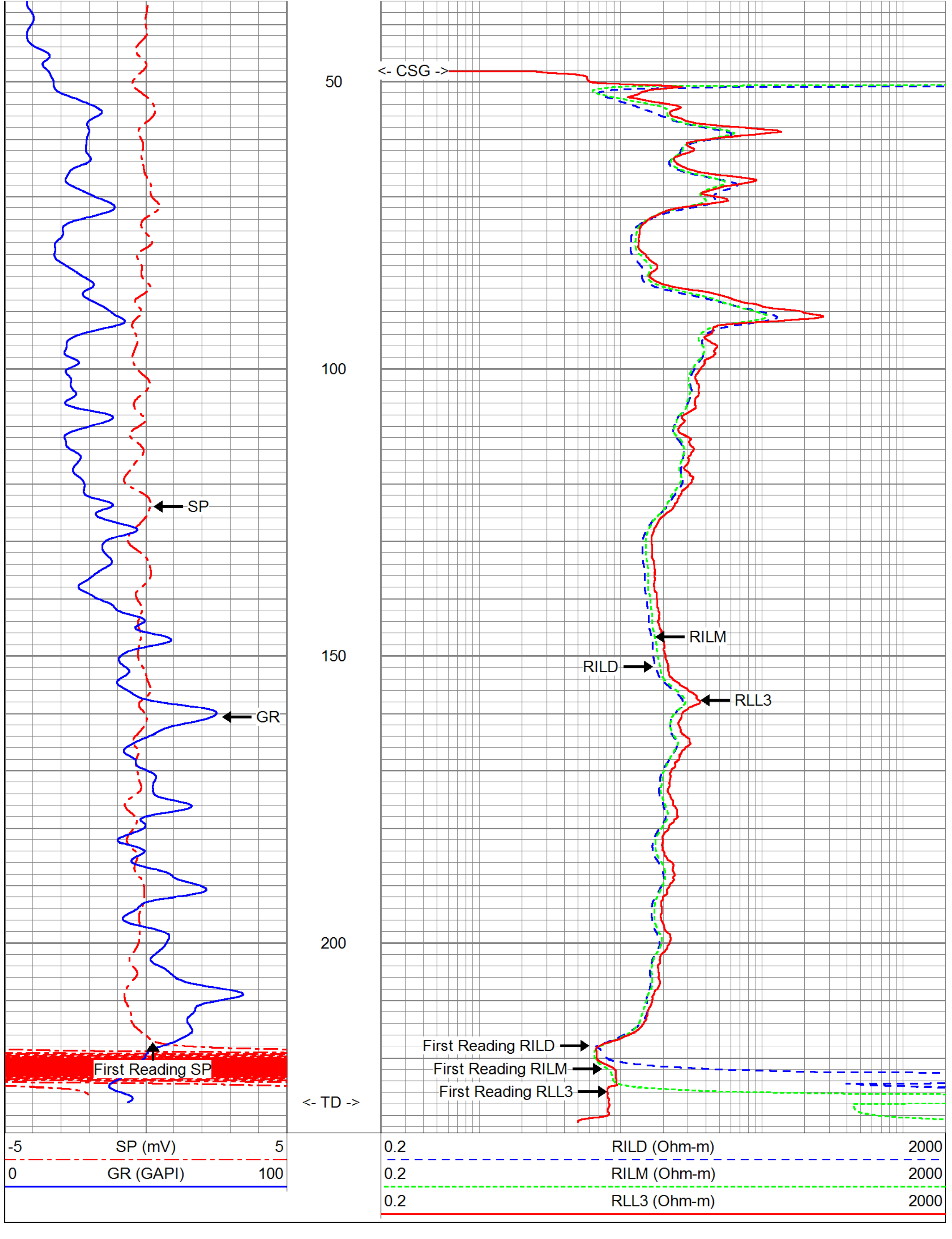
Database File: fddsunr2.db
Dataset Pathname: MAIN
Presentation Format: dil-5
Dataset Creation: Thu Sep 27 15:20:03 2012
Charted by: Depth in Feet scaled 1:600



MV Geophysical

MAIN PASS

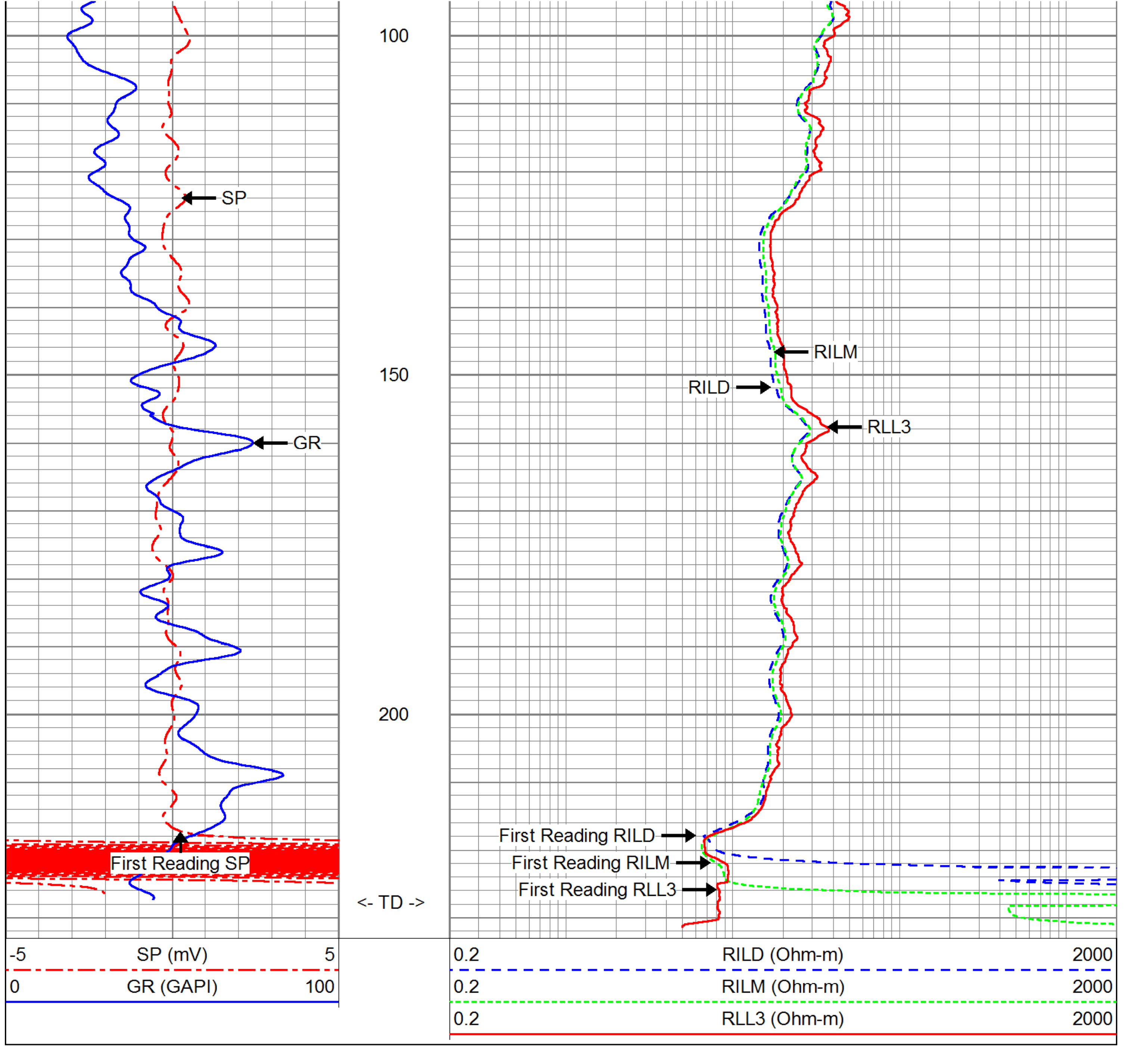
Database File: fddsunr2.db
Dataset Pathname: MAIN
Presentation Format: dil-5
Dataset Creation: Thu Sep 27 15:20:03 2012
Charted by: Depth in Feet scaled 1:240



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



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 SP	10.60 10.60		DIL-R (5390)	20.90	4.00	345.00
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

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 Ave., Sunrise FL 33323 MPI/AUS
Other Services	XY/GR DIL/SP
Permanent Datum	G.L.
Log Measured From	G.L.
Drilling Measured From	G.L.
Elevation	K.B. D.F. G.L.

Date	27-SEP-2012
Run Number	ONE
Depth Driller	228'
Depth Logger	228'
Bottom Logged Interval	228'
Top Log Interval	SURFACE
Open Hole Size	9.875"
Type Fluid	MUD
Density / Viscosity	nana
Max. Recorded Temp.	NA
Estimated Cement Top	SURFACE
Time Well Ready	14:15 9/27/2012
Time Logger on Bottom	14:30 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				

Invoice No. 2012199 P.O.: Job No. 10x/.pdf/.las fddsunr2.db * Field Print *

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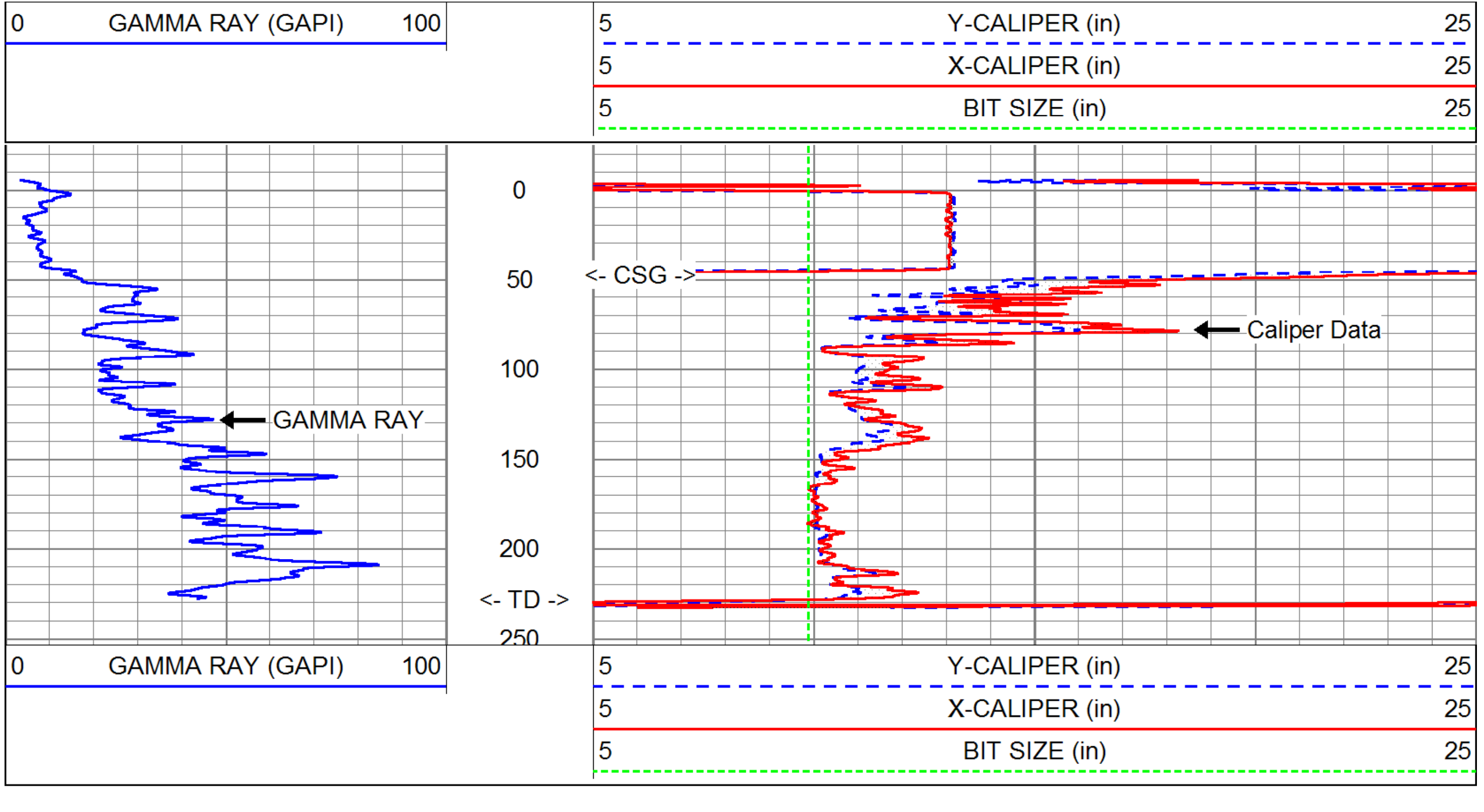
Comments

X-Y Caliper Arm Extensions: 33"

MV Geophysical

MAIN PASS

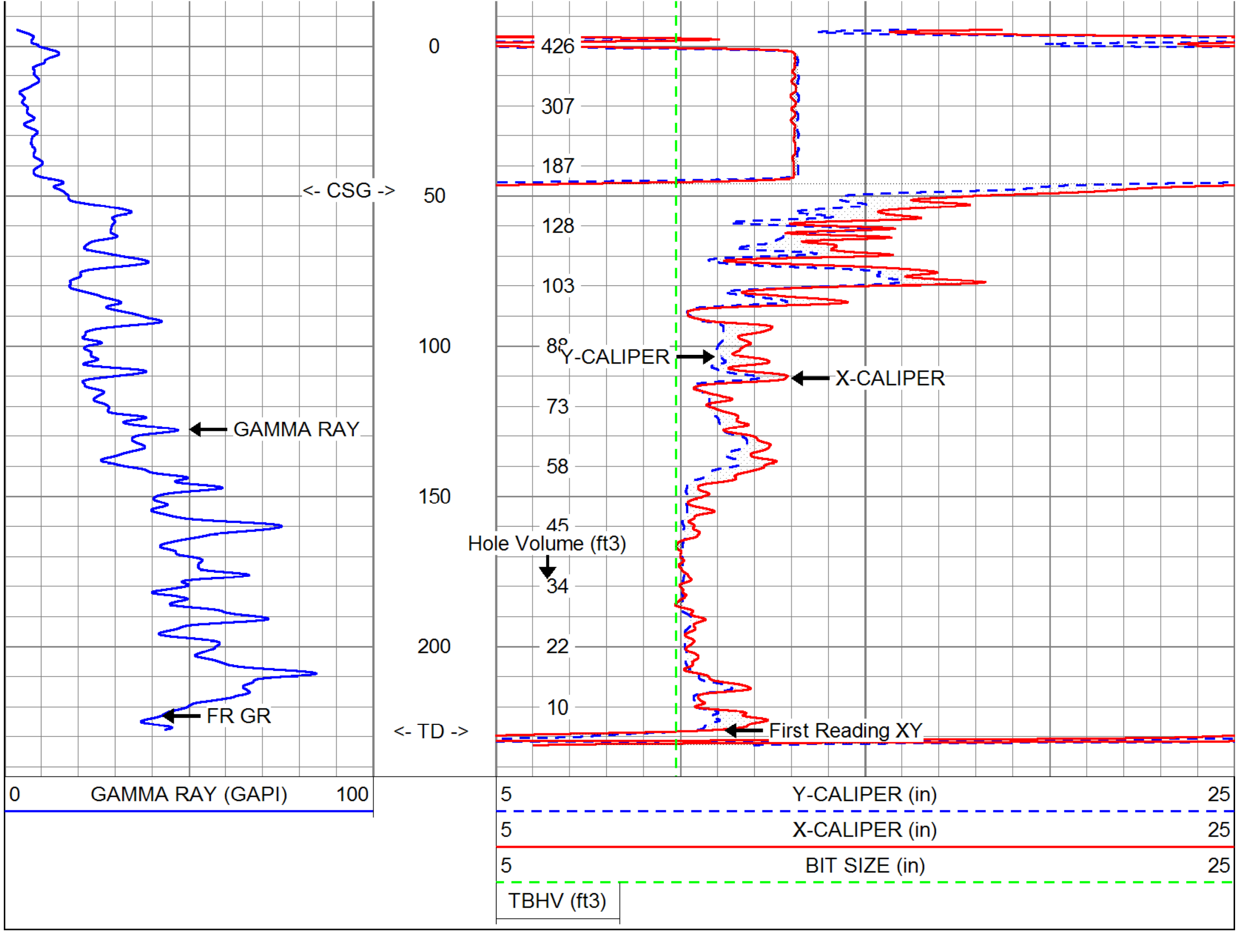
Database File: fddsunr2.db
Dataset Pathname: MAIN
Presentation Format: xy525-1
Dataset Creation: Thu Sep 27 15:20:03 2012
Charted by: Depth in Feet scaled 1:1200



MV Geophysical

MAIN PASS

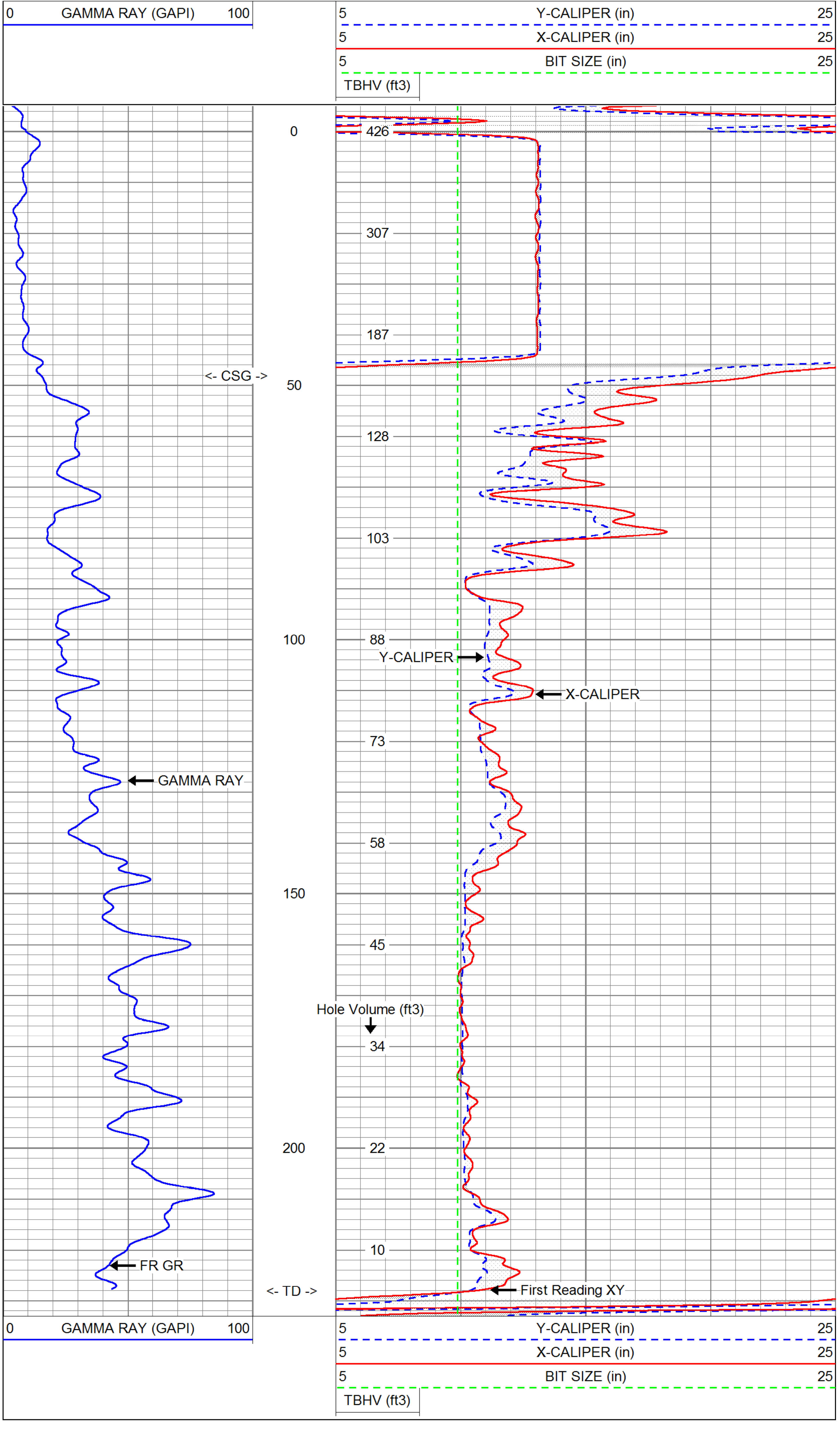
Database File: fddsunr2.db
Dataset Pathname: MAIN
Presentation Format: xy525-5
Dataset Creation: Thu Sep 27 15:20:03 2012
Charted by: Depth in Feet scaled 1:600



MV Geophysical

MAIN PASS

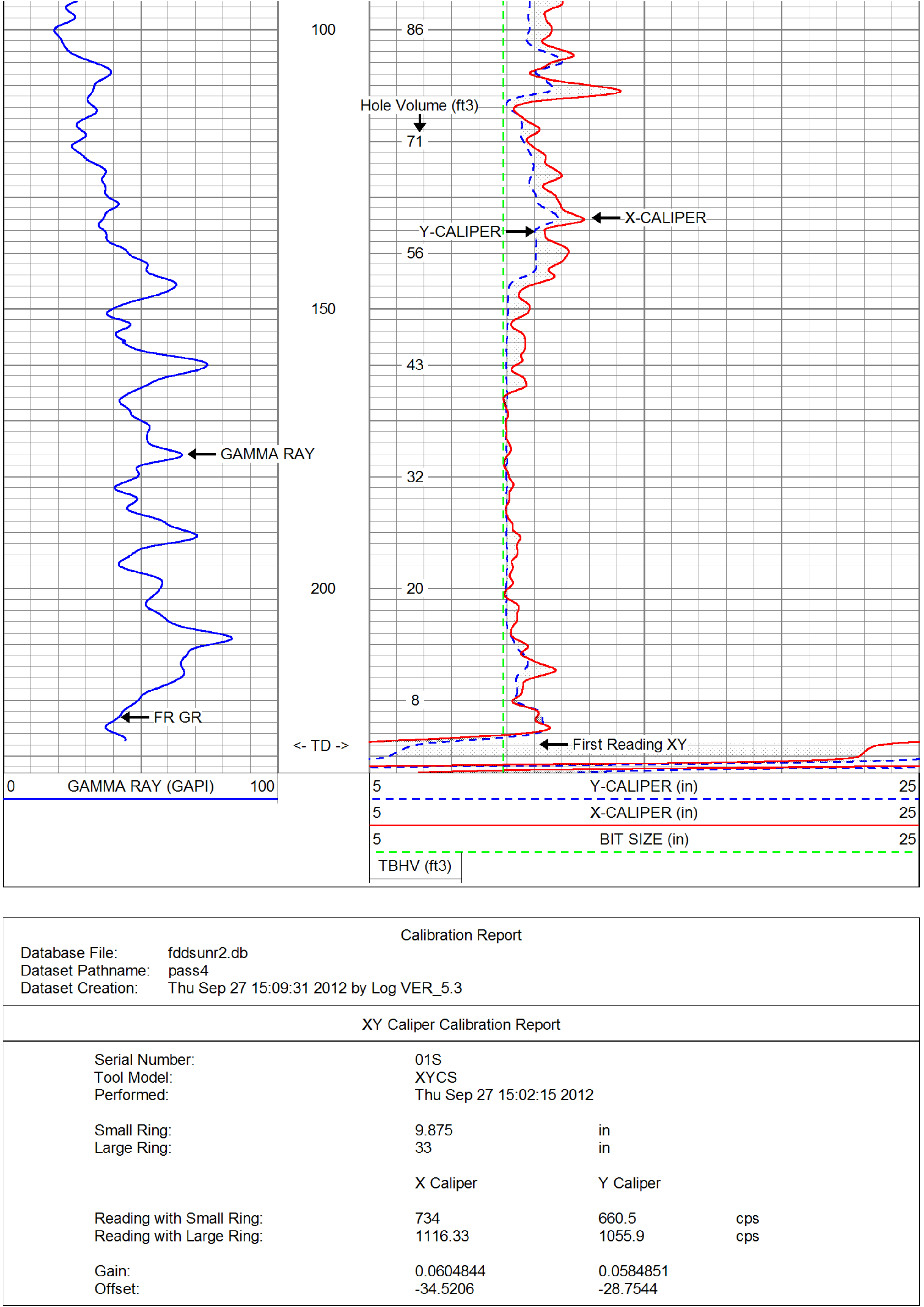
Database File: fddsunr2.db
Dataset Pathname: MAIN
Presentation Format: xy525-5
Dataset Creation: Thu Sep 27 15:20:03 2012
Charted by: Depth in Feet scaled 1:240



MV Geophysical

REPEAT SECTION

Database File: fddsunr2.db
Dataset Pathname: REPEAT
Presentation Format: xy525-5
Dataset Creation: Thu Sep 27 15:33:48 2012
Charted by: Depth in Feet scaled 1:240



Calibration Report

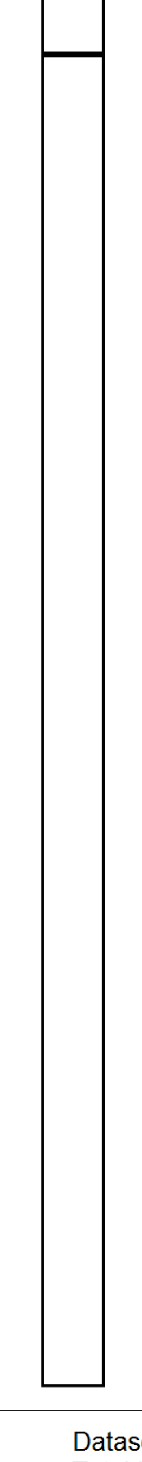
Database File: fddsunr2.db
Dataset Pathname: pass4
Dataset Creation: Thu Sep 27 15:09:31 2012 by Log VER_5.3

XY Caliper Calibration Report

Serial Number:	01S		
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	0.0584851	
Offset:	-34.5206	-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					
			XYC-XYCS (01S)	6.60	3.50	110.00
XCAL	0.50					
YCAL	0.50					

Dataset: fddsunr2.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

MV Geophysical

BOREHOLE COMPENSATED SONIC w/ VARIABLE DENSITY 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

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

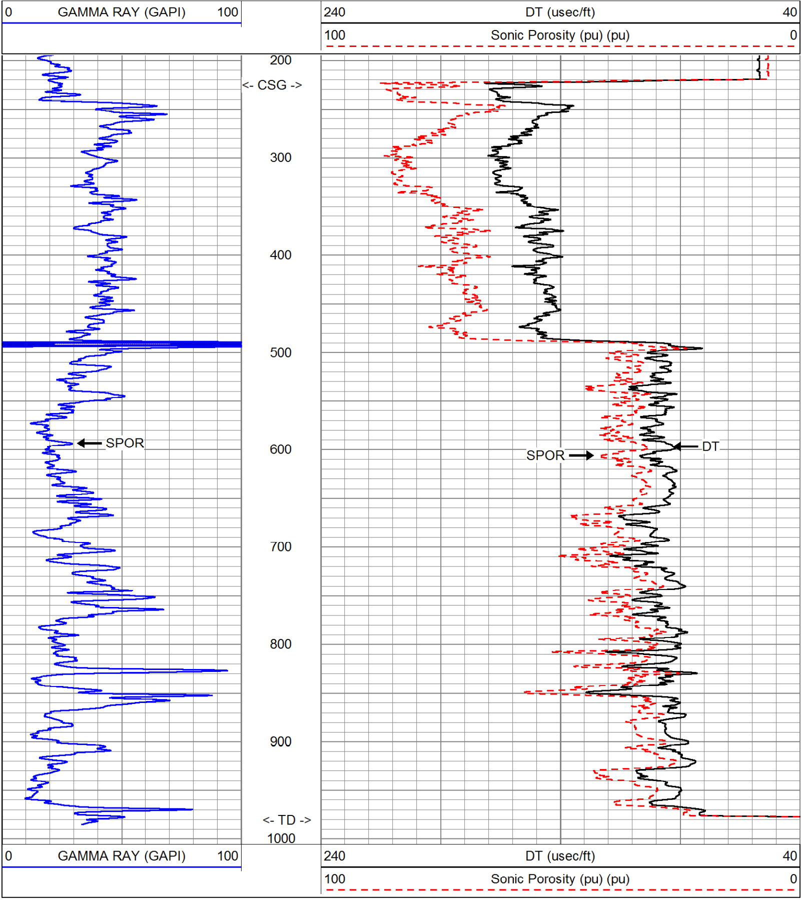
Sonic Porosity was run on a Limestone Matrix (=47.5)

BHC Sonic tool was run centralized.

MV Geophysical

MAIN PASS

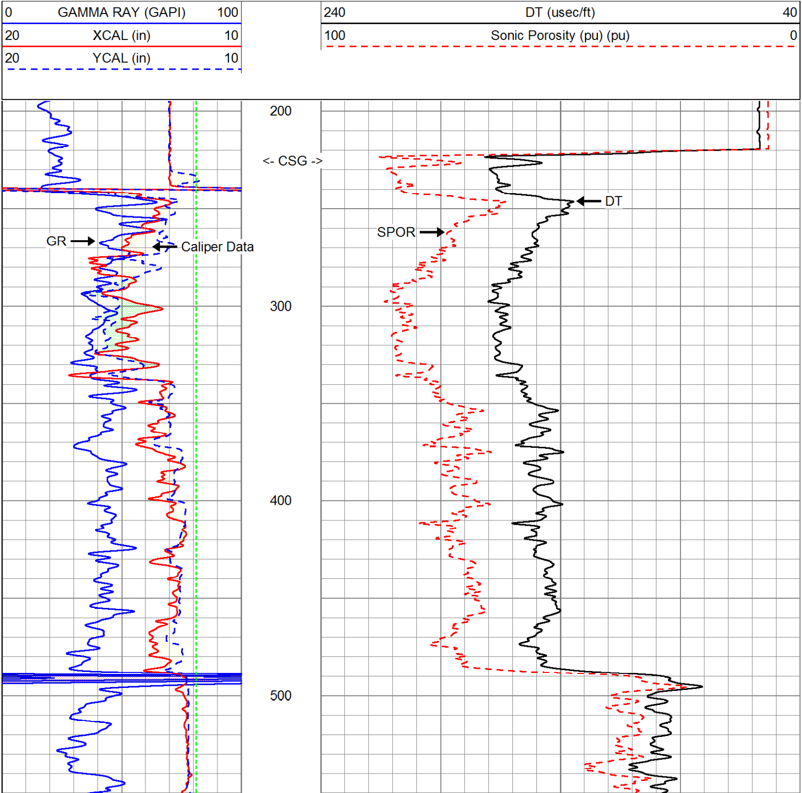
Database File: fddsunr2.db
Dataset Pathname: run3/MAIN
Presentation Format: dtg-11
Dataset Creation: Tue Oct 23 12:35:54 2012
Charted by: Depth in Feet scaled 1:1200

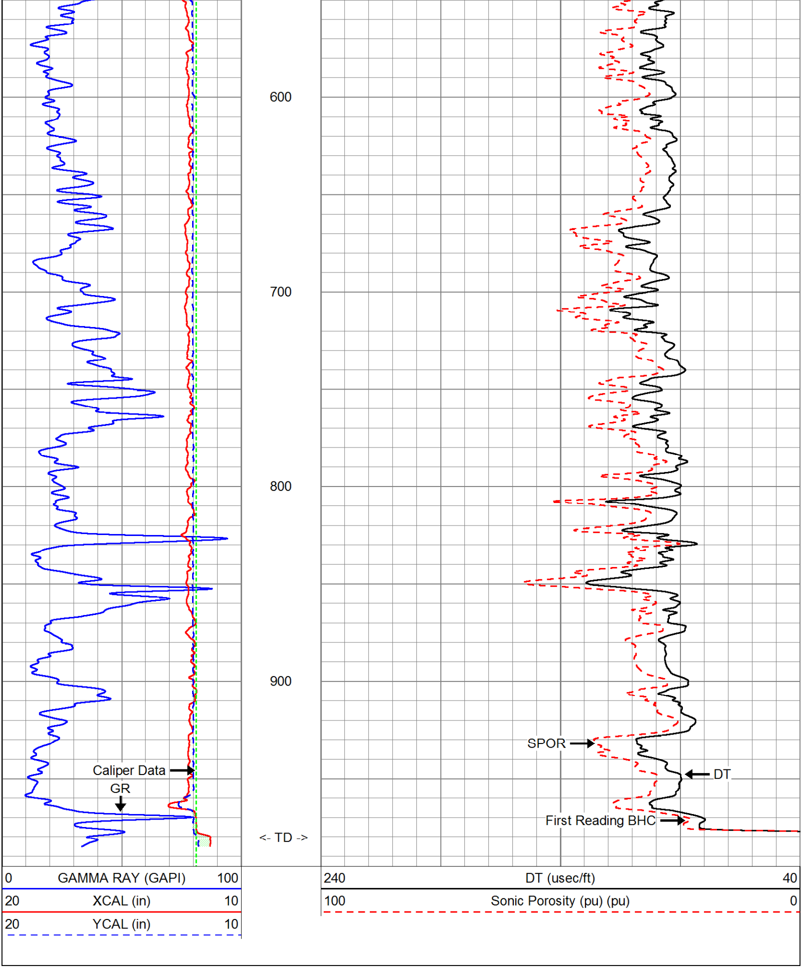


MV Geophysical

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

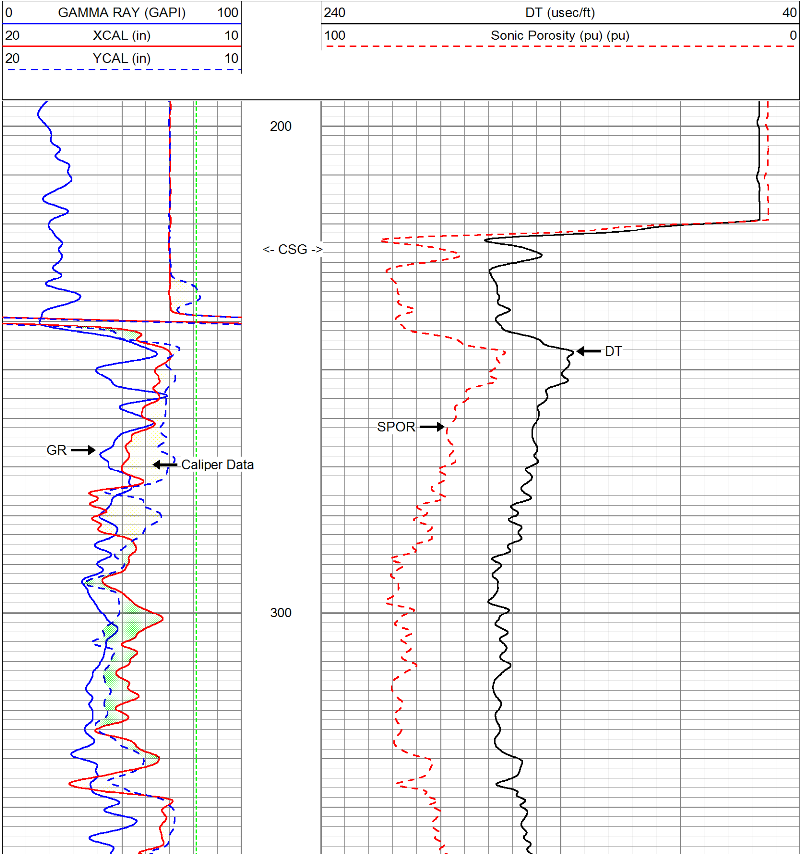


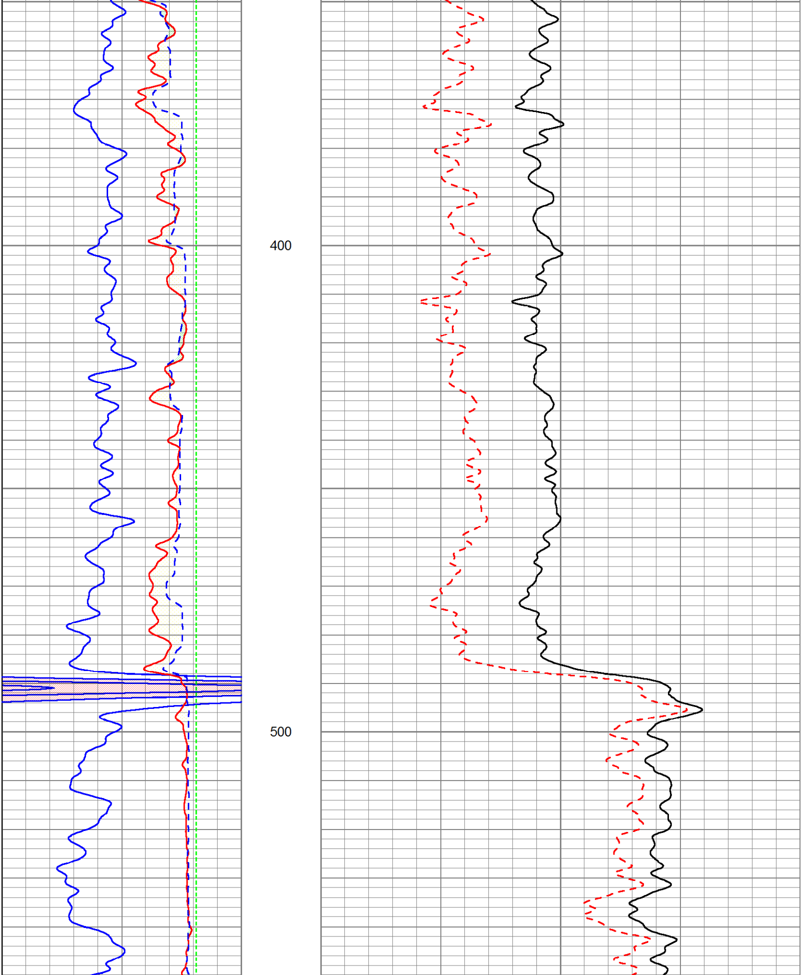


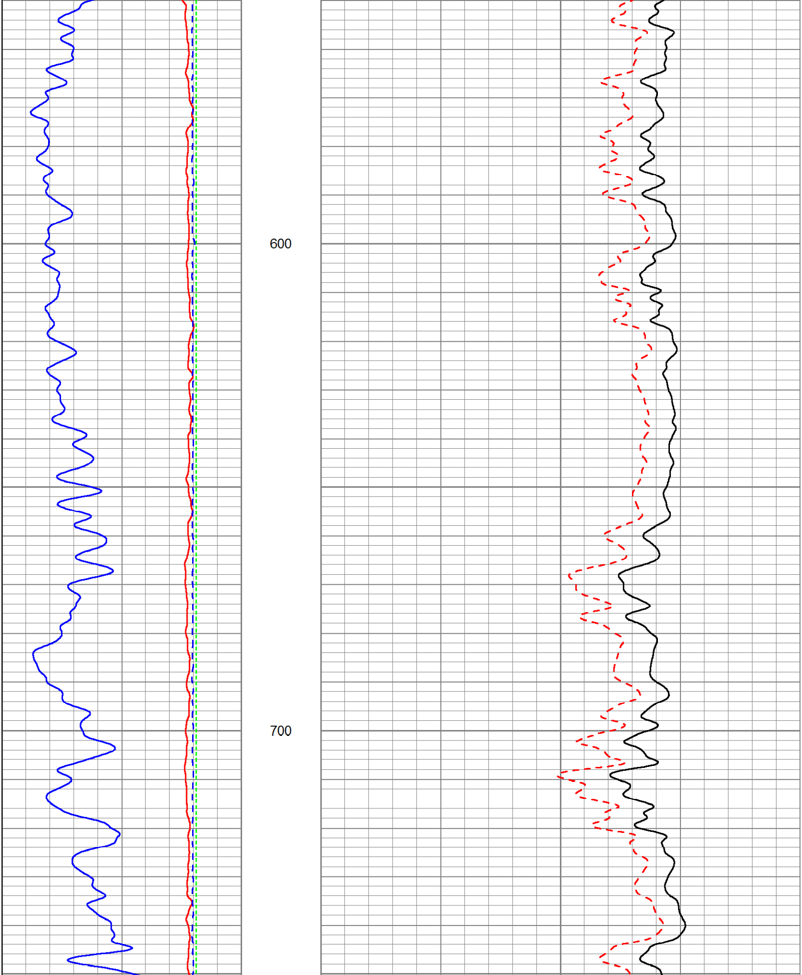
MV Geophysical

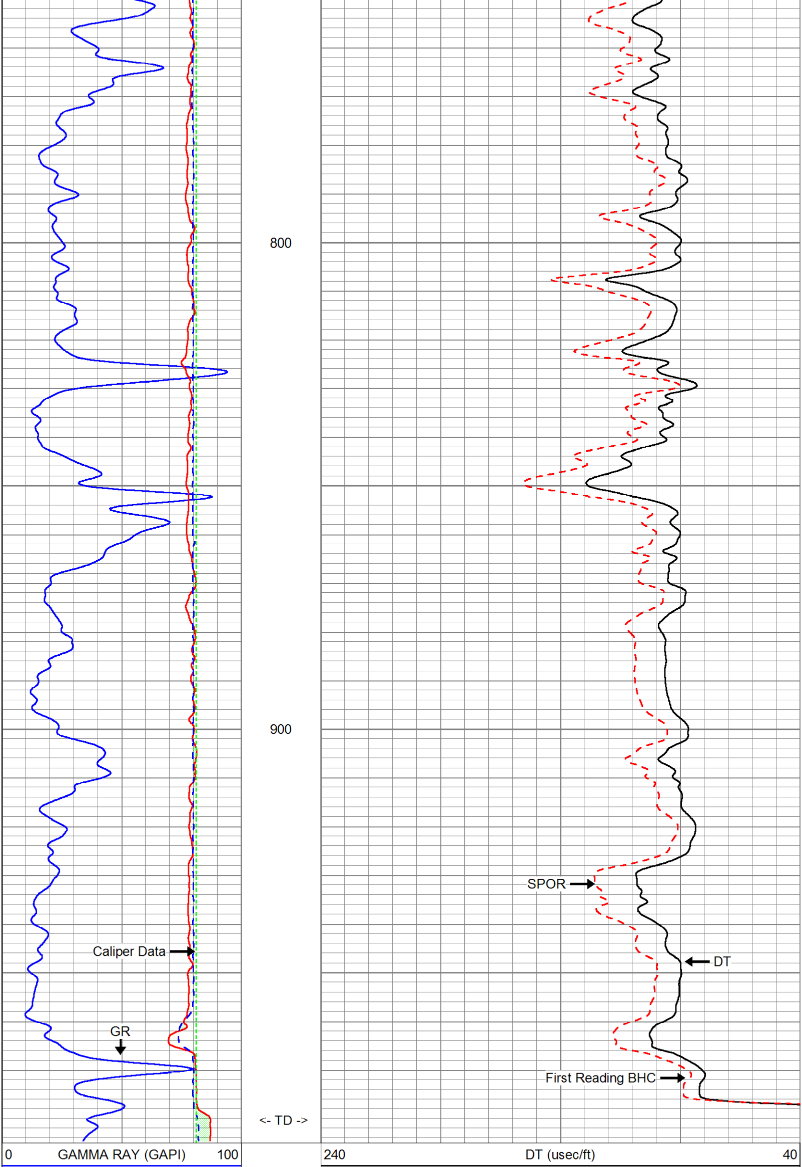
MAIN PASS

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









20	XCAL (in)	10
20	YCAL (in)	10

100	Sonic Porosity (pu) (pu)	0

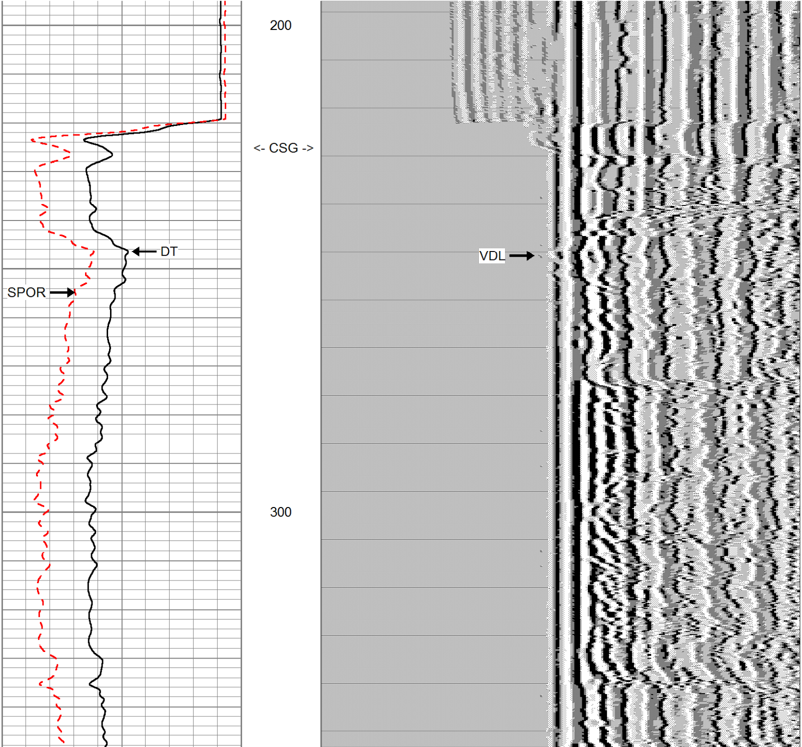
MV Geophysical

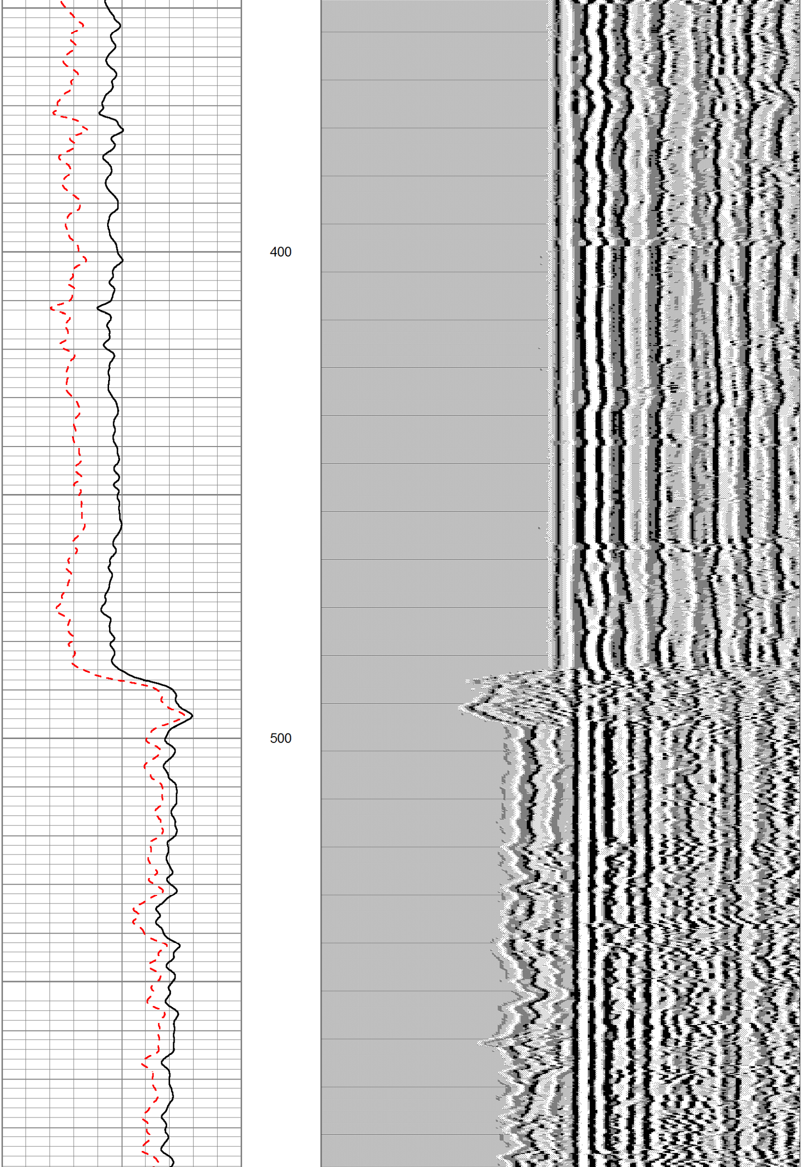
MAIN PASS

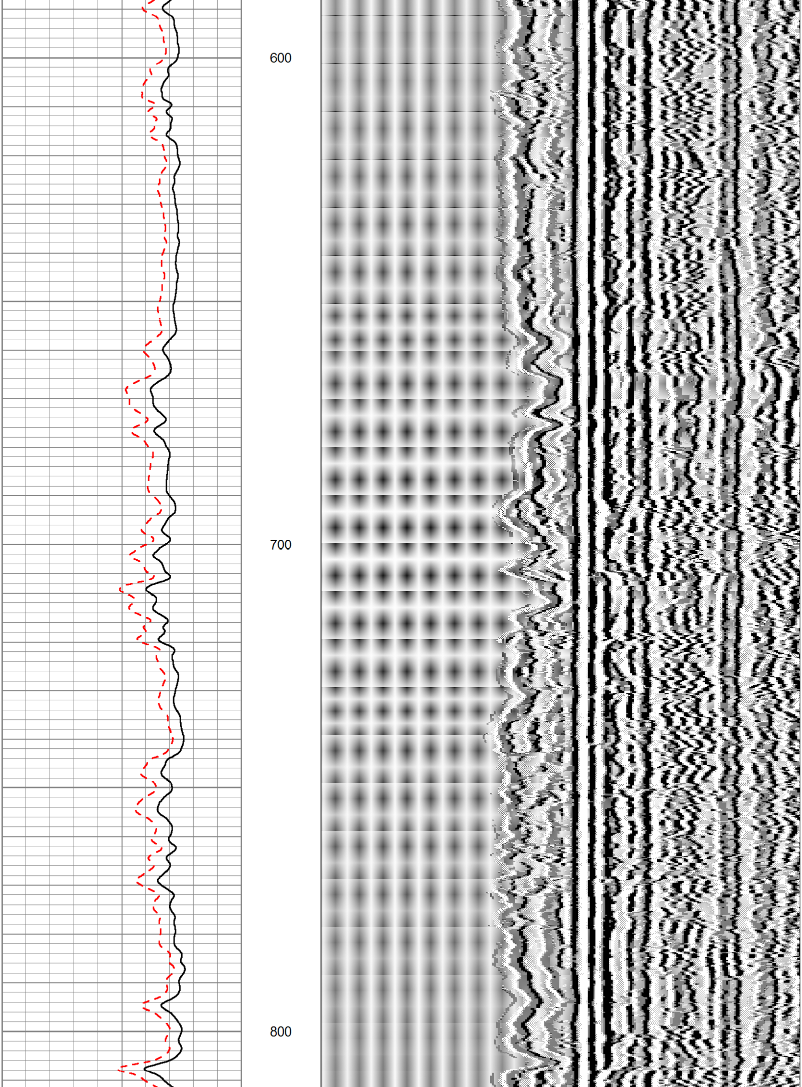
Database File:	fddsunr2.db
Dataset Pathname:	run3/MAIN
Presentation Format:	son_vdl
Dataset Creation:	Tue Oct 23 12:35:54 2012
Charted by:	Depth in Feet scaled 1:240

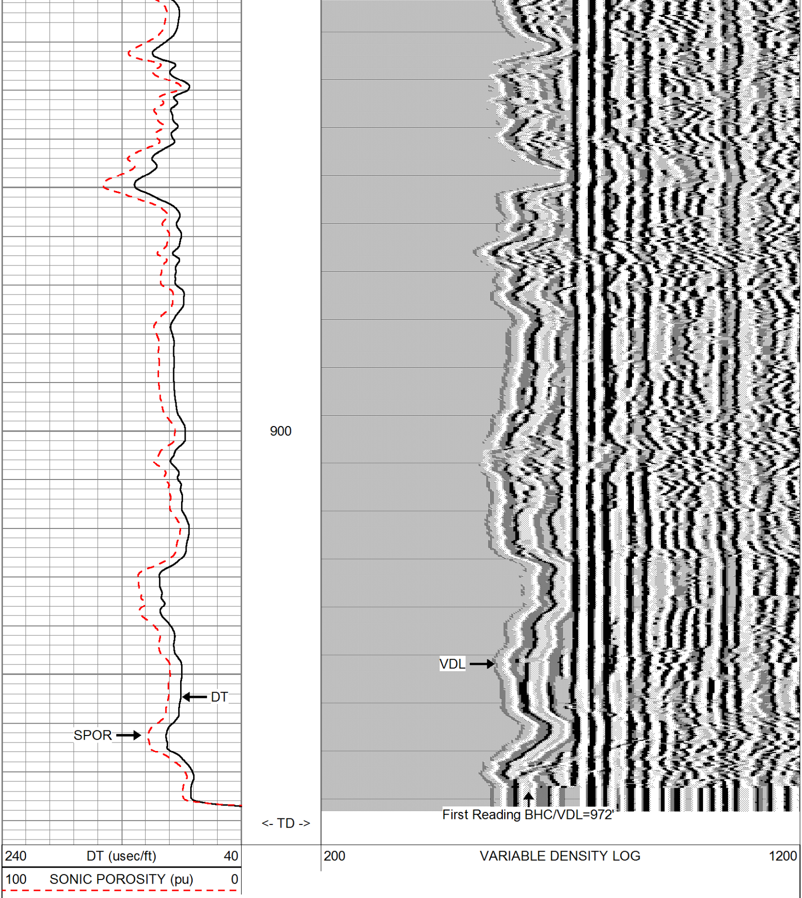
240	DT (usec/ft)	40
100	SONIC POROSITY (pu)	0

200	VARIABLE DENSITY LOG	1200





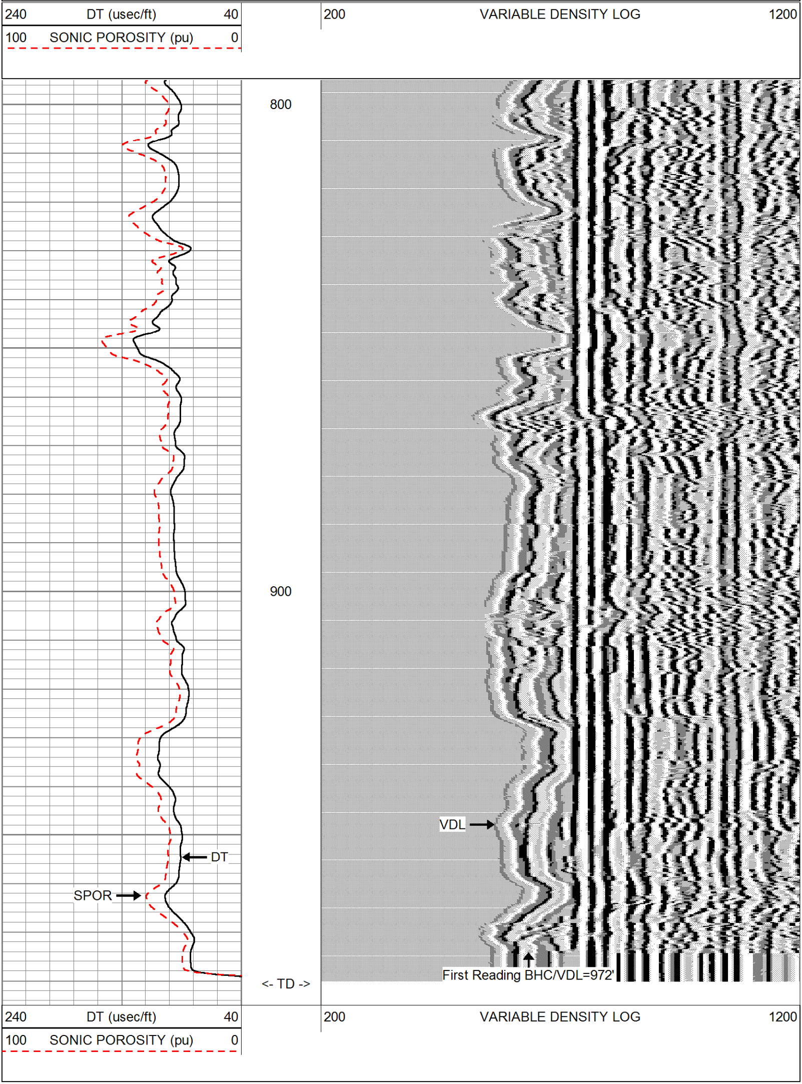


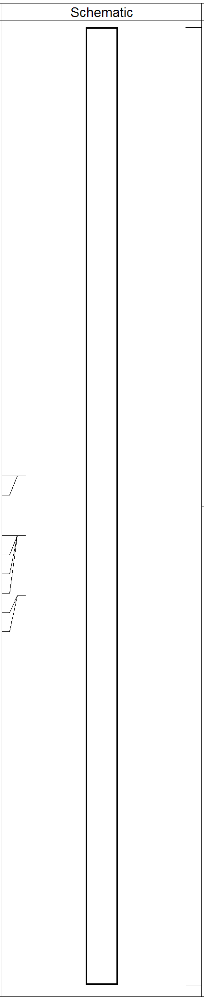


MV
Geophysical

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					
WVF3	8.50					
			SLT-GO (245)	16.00	3.50	127.00
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

DUAL INDUCTION
LL3 / SP
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	
Log Measured From	G.L.		K.B.
Drilling Measured From	G.L.		D.F.
			G.L.

Date	23-OCT-2012
Run Number	THREE
Depth Driller	980'
Depth Logger	980'
Bottom Logged Interval	980'
Top Log Interval	225'
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	13:00 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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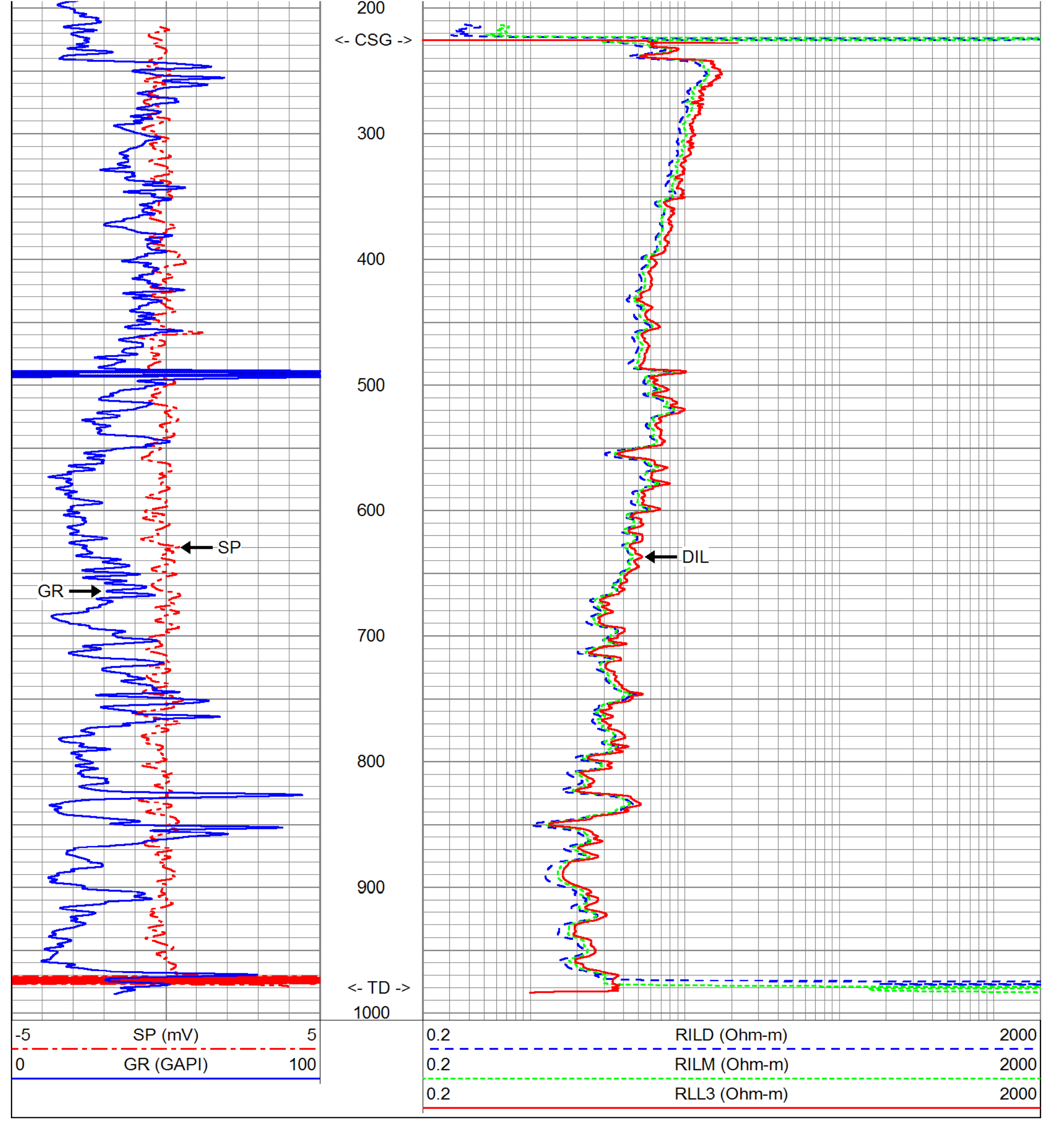
Comments

Rm=2.967 ohm-m @ 93.2 degF

MV Geophysical

MAIN PASS

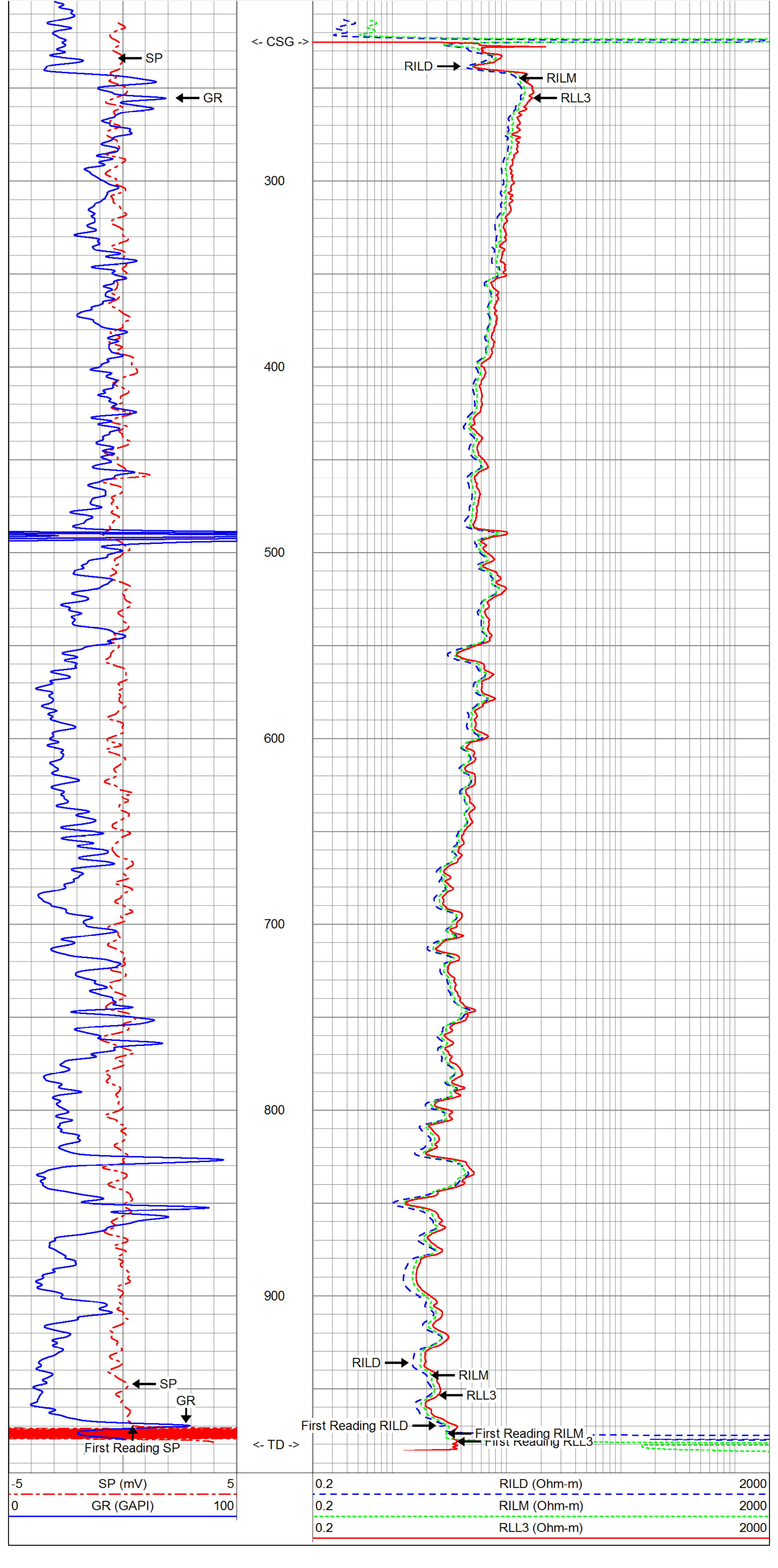
Database File: fddsunr2.db
Dataset Pathname: run3/MAIN
Presentation Format: dil-1
Dataset Creation: Tue Oct 23 12:35:54 2012
Charted by: Depth in Feet scaled 1:1200



MV Geophysical

MAIN PASS

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



MV Geophysical

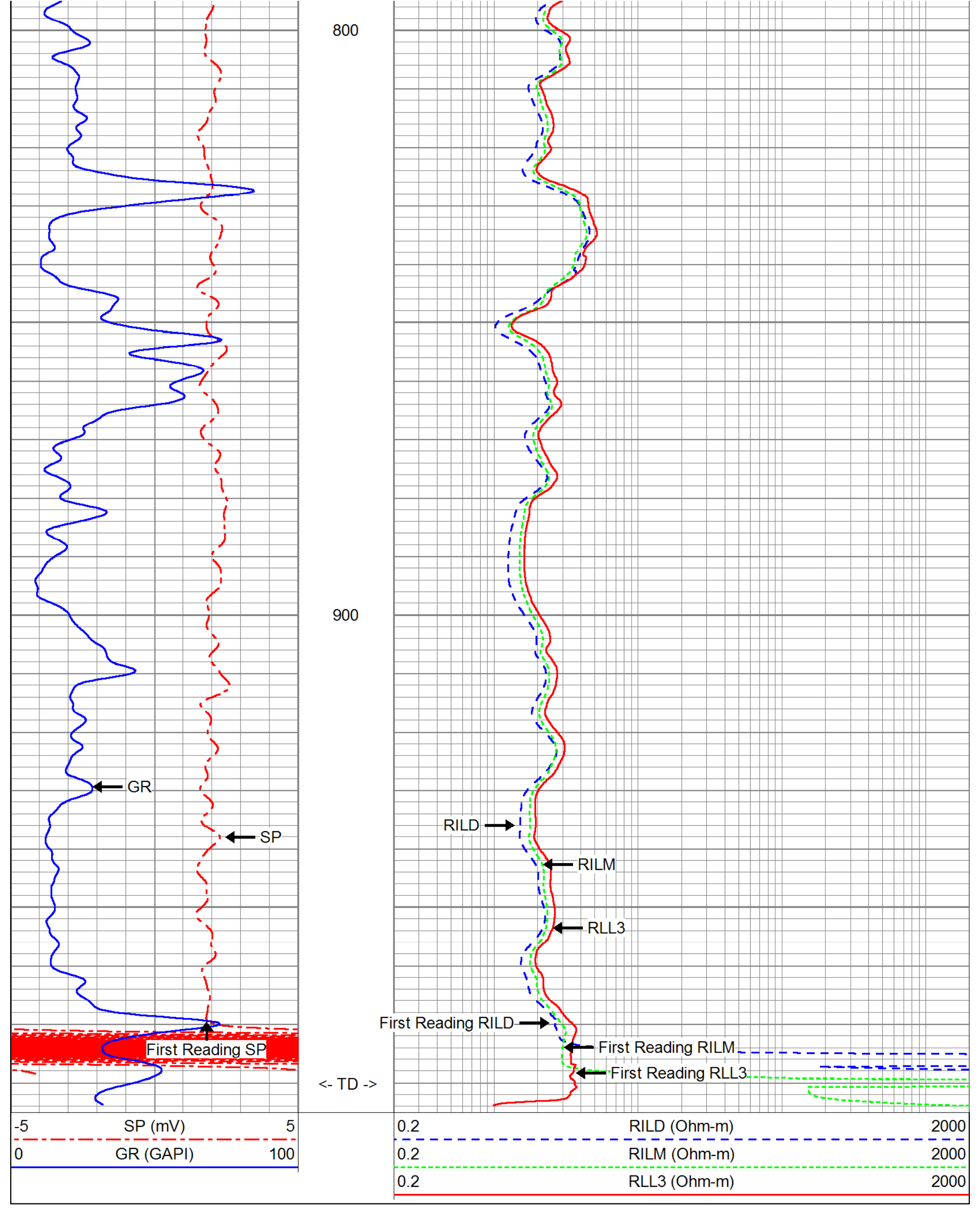
MAIN PASS

Database File: fddsunr2.db
Dataset Pathname: run3/MAIN
Presentation Format: dil-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: dil-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/pass7
Dataset Creation: Tue Oct 23 13:32:44 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

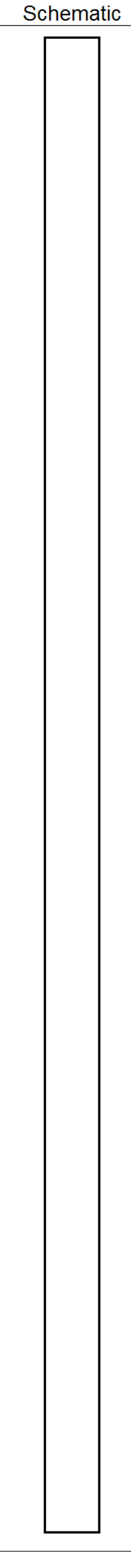
	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.051	0.645	V	0.000	400.000	mmho-m	673.401	-34.343
Medium	0.018	0.735	V	0.000	464.000	mmho-m	647.121	-11.545
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.641	V	0.000	400.000	mmho-m	635.021	-7.049
Medium	0.005	0.739	V	0.000	464.000	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	197.818	-2.989

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 SP	10.60 10.60		DIL-R (5390)	20.90	4.00	345.00
CILM	6.80					
RLL3	1.70					

Dataset: fddsunr2.db: field/well/run3/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

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. Elevation
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 / 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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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.

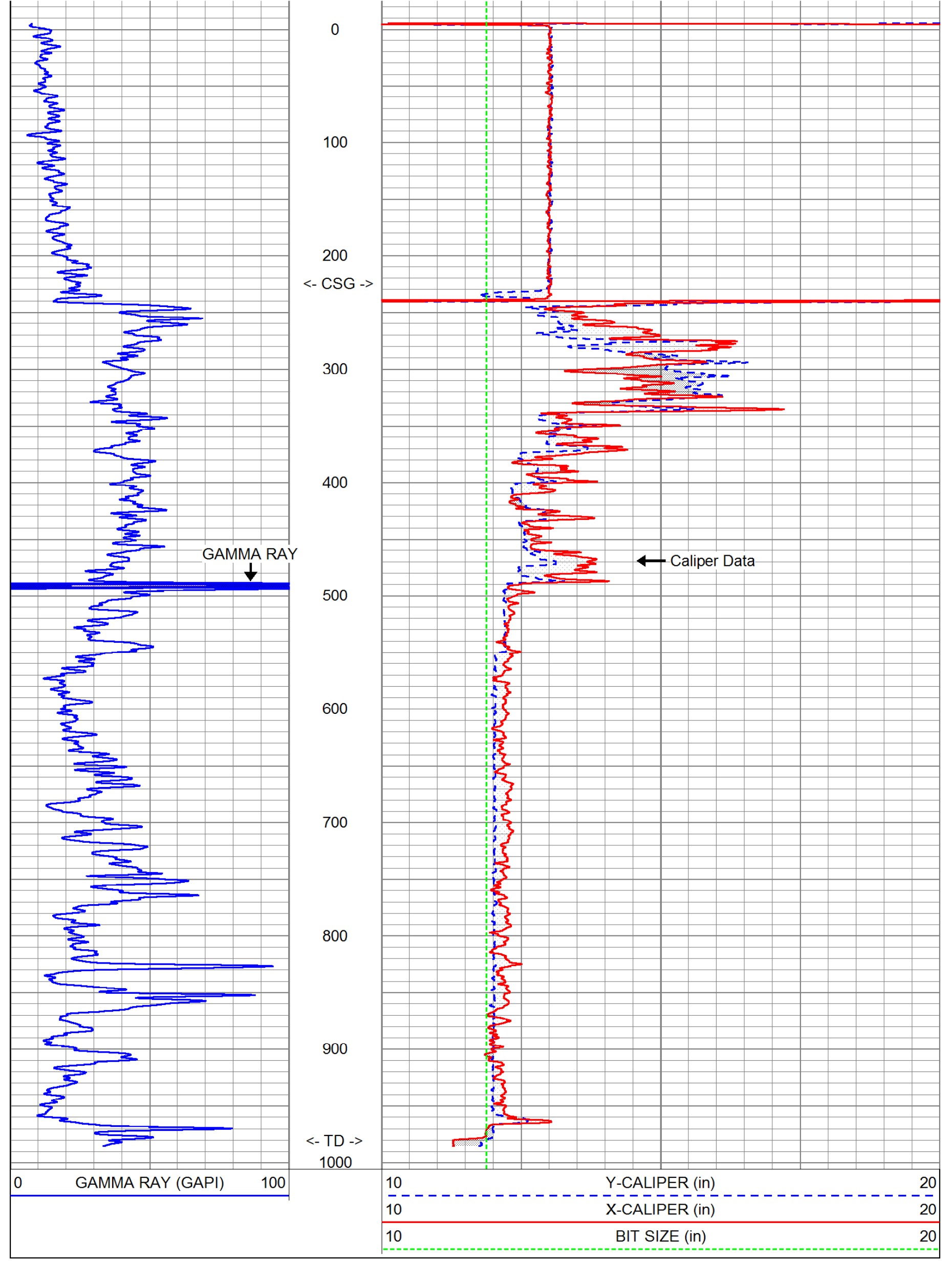
Comments

X-Y Caliper Arm Extensions: 33"

MV Geophysical

MAIN PASS

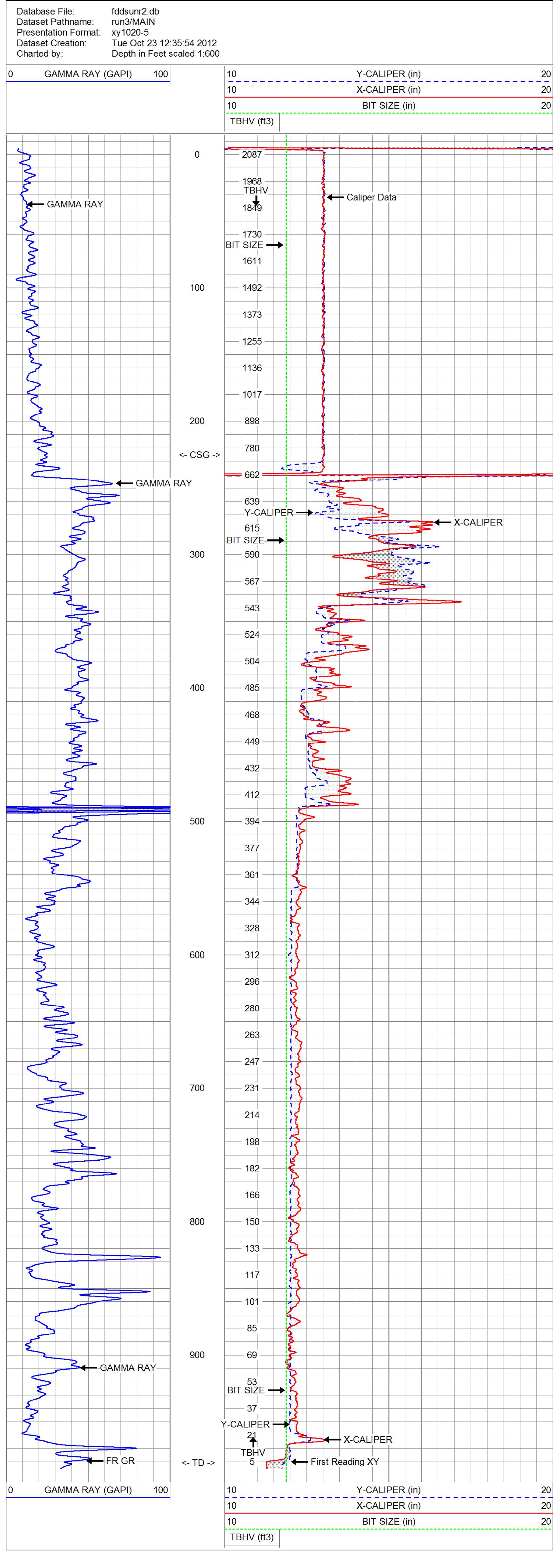
Database File: fddsunr2.db
Dataset Pathname: run3/MAIN
Presentation Format: xy1020-1
Dataset Creation: Tue Oct 23 12:35:54 2012
Charted by: Depth in Feet scaled 1:1200



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

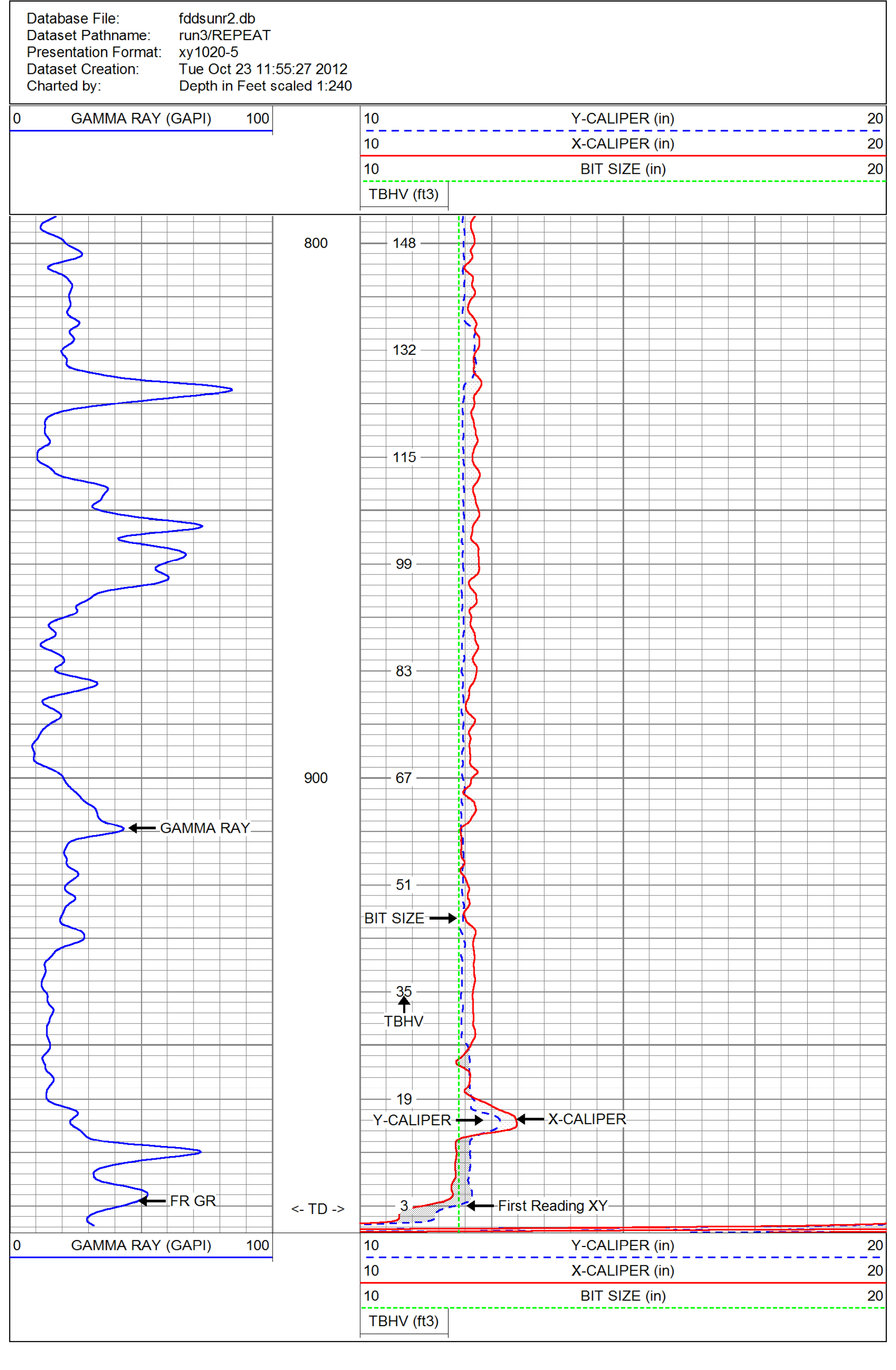
MAIN PASS

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

X-Y Caliper Arm Extensions: 51"

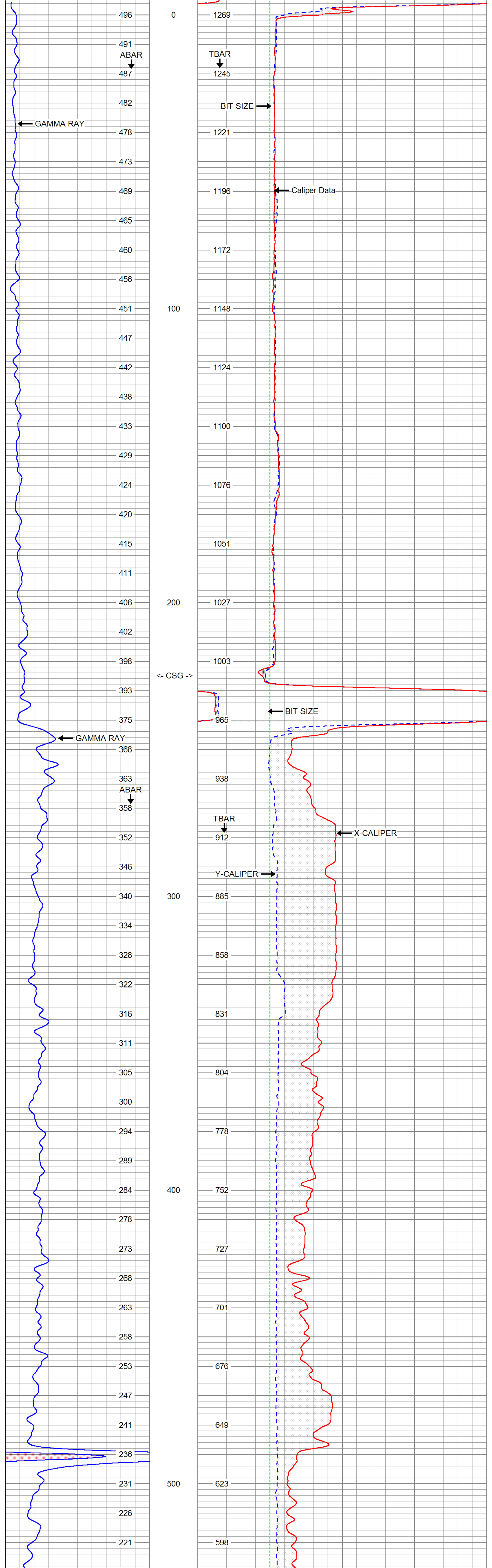
FUTURE CASING SIZE: 28" OD

BOREHOLE VOLUME CALCULATIONS IN BARRELS.

MV Geophysical

MAIN PASS

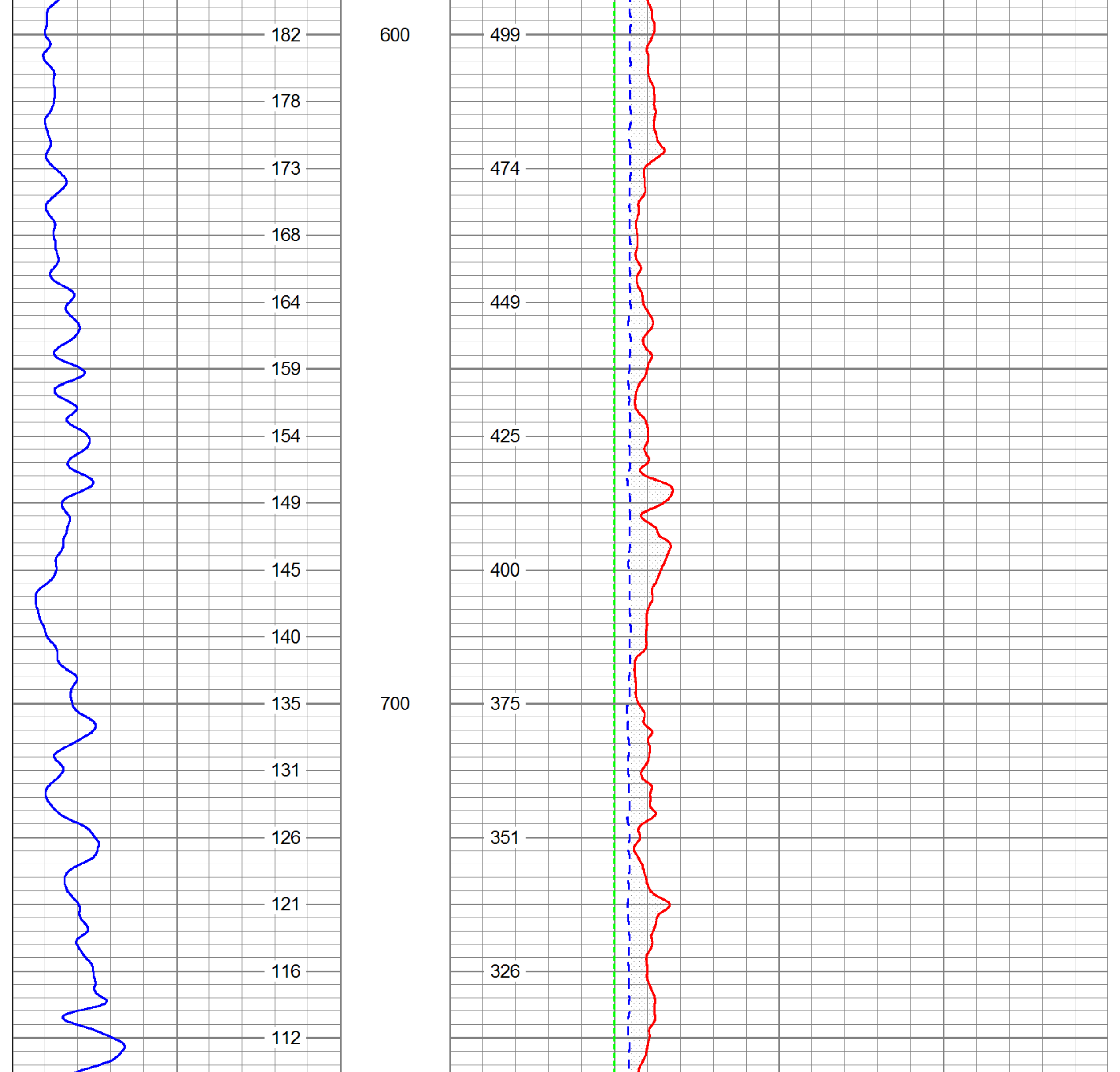
Database File: fddsunr2.db
Dataset Pathname: run4/main
Presentation Format: xy3050b5
Dataset Creation: Wed Nov 07 18:35:38 2012
Charted by: Depth in Feet scaled 1:240



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



Calibration Report

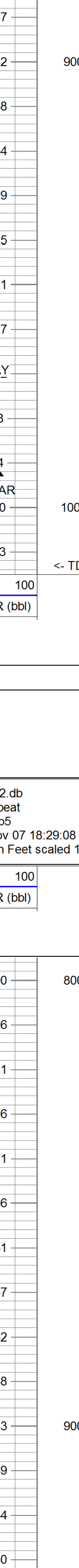
Database File: fddsunr2.db
Dataset Pathname: run4/pass2
Dataset Creation: Wed Nov 07 17:39:03 2012 by Log VER_5.3

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	7.60		GR-GROH (01)	2.75	3.50	40.00
XCAL YCAL	2.25 2.25		XYC-XYCL (01L)	6.60	3.50	87.00

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

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

Other Services
XY/GR
DIL/SP

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

Date	8-OCT-2012
Run Number	TWO
Depth Driller	228'
Depth Logger	235'
Bottom Logged Interval	233'
Top Log Interval	SURFACE
Open Hole Size	46"
Type Fluid	MUD
Density / Viscosity	na/na
Max. Recorded Temp.	NA
Estimated Cement Top	SURFACE
Time Well Ready	12:30 10/8/2012
Time Logger on Bottom	12:30 10/8/2012
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'				

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.	2012207	P.O.:	Job No.:	* Field Print *

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Comments

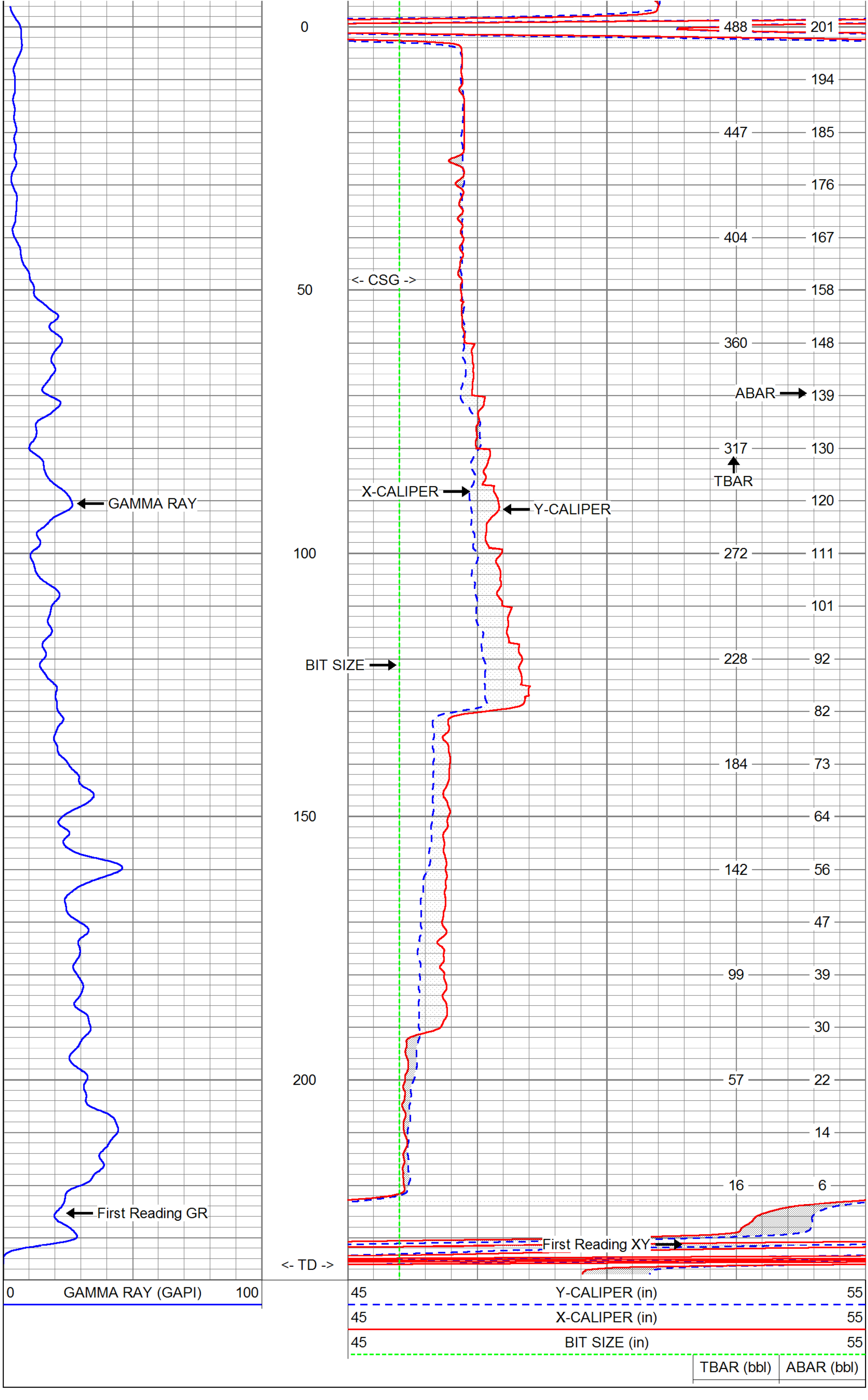
X-Y Caliper Arm Extensions: 51"

FUTURE CASING SIZE: 36" OD

MV Geophysical

MAIN PASS

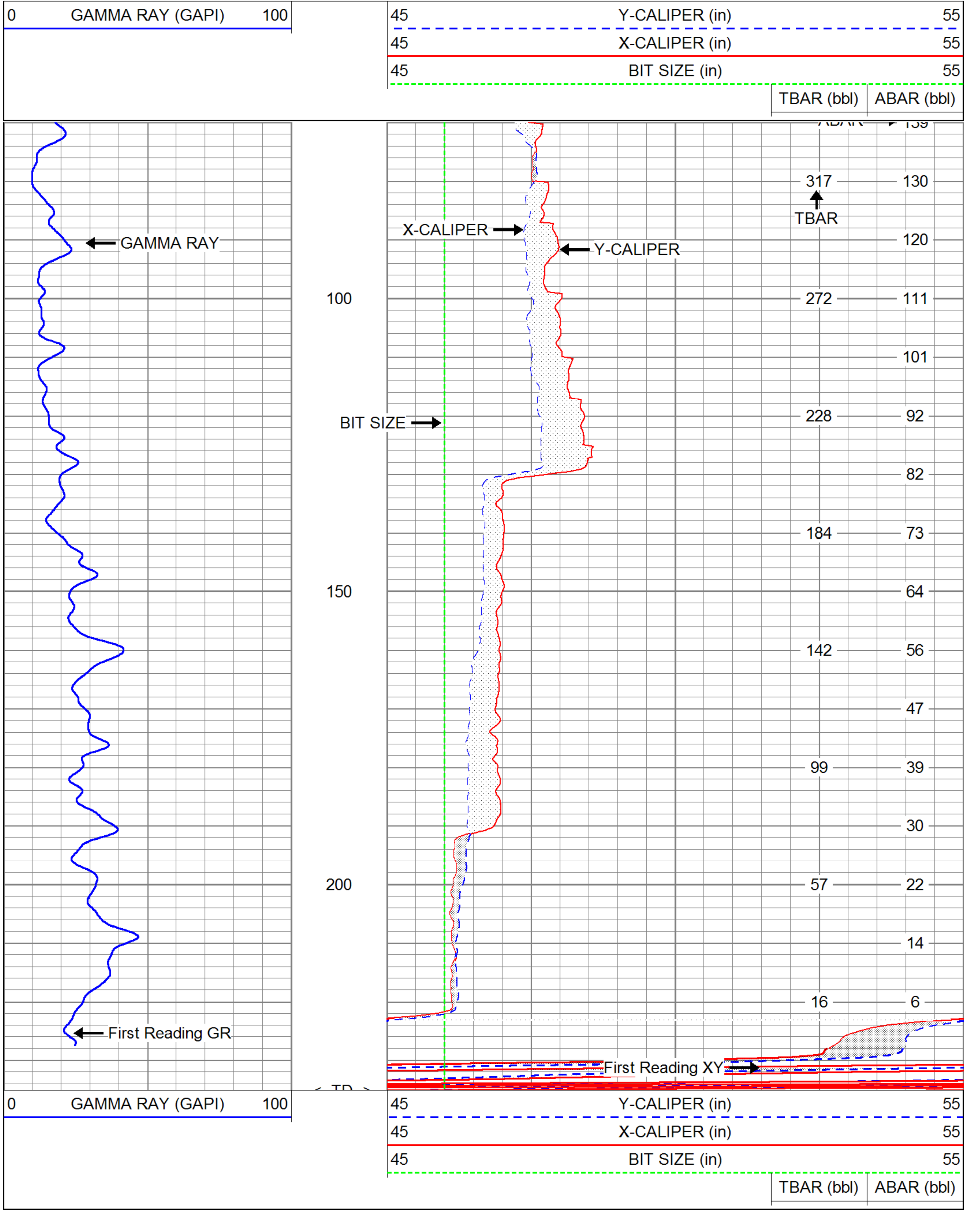
Database File: fddsunr2.db
Dataset Pathname: run2/main
Presentation Format: xy4555b5
Dataset Creation: Mon Oct 08 14:22:25 2012
Charted by: Depth in Feet scaled 1:240



MV Geophysical

REPEAT SECTION

Database File: fddsunr2.db
Dataset Pathname: run2/repeat
Presentation Format: xy4555b5
Dataset Creation: Mon Oct 08 14:29:36 2012
Charted by: Depth in Feet scaled 1:240



Calibration Report

Database File: fddsunr2.db
Dataset Pathname: run2/pass3
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	0.0862069	
Offset:	-93.8581	-40.4655	

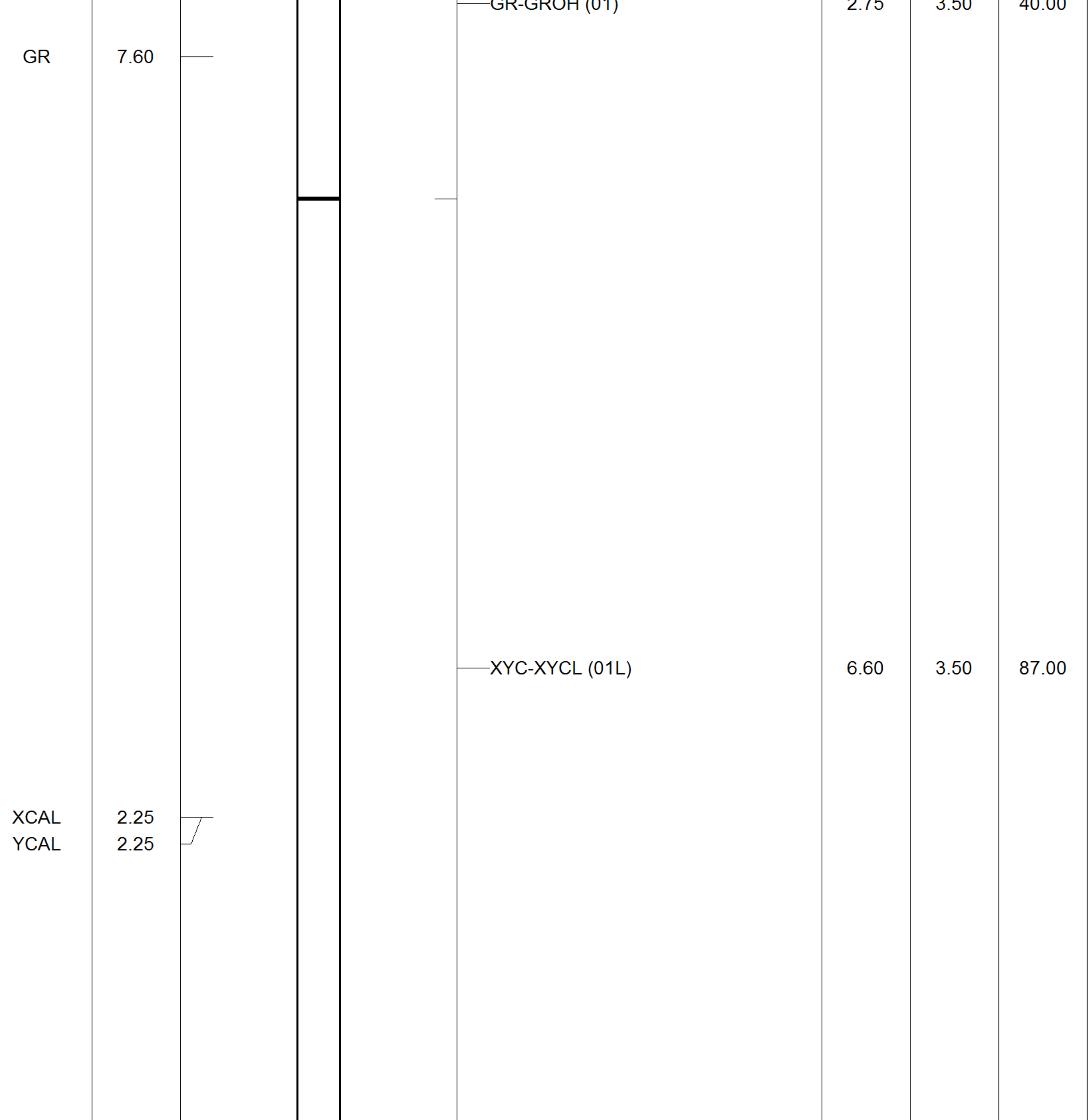
Gamma Ray Calibration Report

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)	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: fddsunr2.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

BOREHOLE COMPENSATED SONIC w/ VARIABLE DENSITY 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
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	1799'		
Top Log Interval	1005'		
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	15:15 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

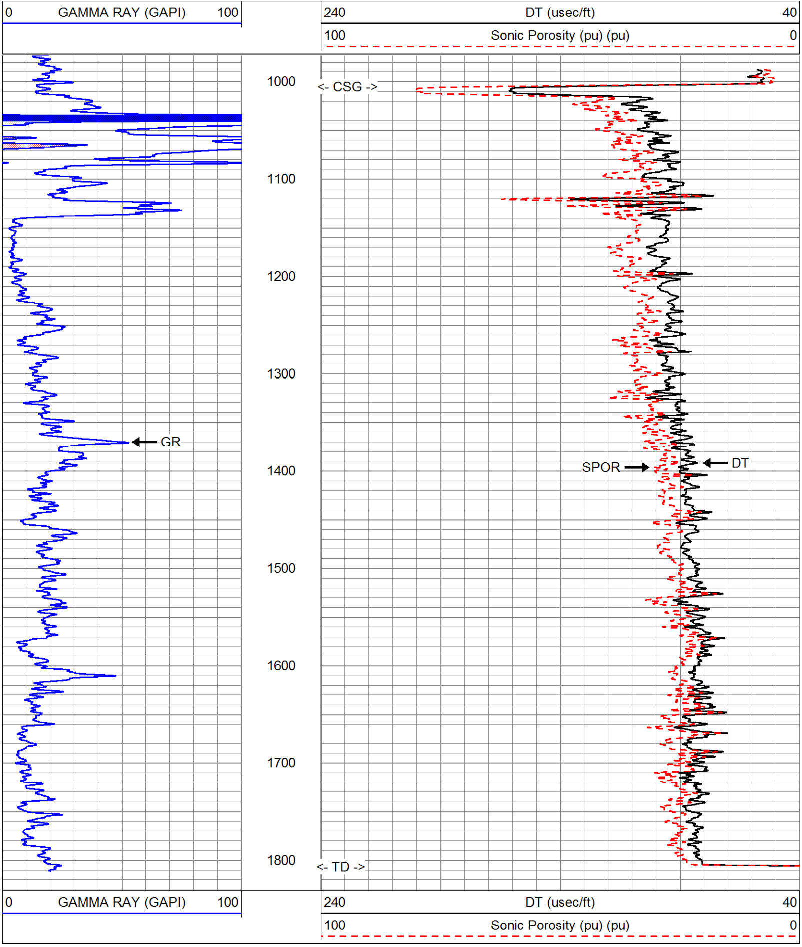
Sonic Porosity was run on a Limestone Matrix (=47.5)

BHC Sonic tool was run centralized.

MV
Geophysical

MAIN PASS

Database File:	fddsunr2.db
Dataset Pathname:	run6/MAIN
Presentation Format:	dtg-11
Dataset Creation:	Wed Dec 12 09:51:56 2012
Charted by:	Depth in Feet scaled 1:1200



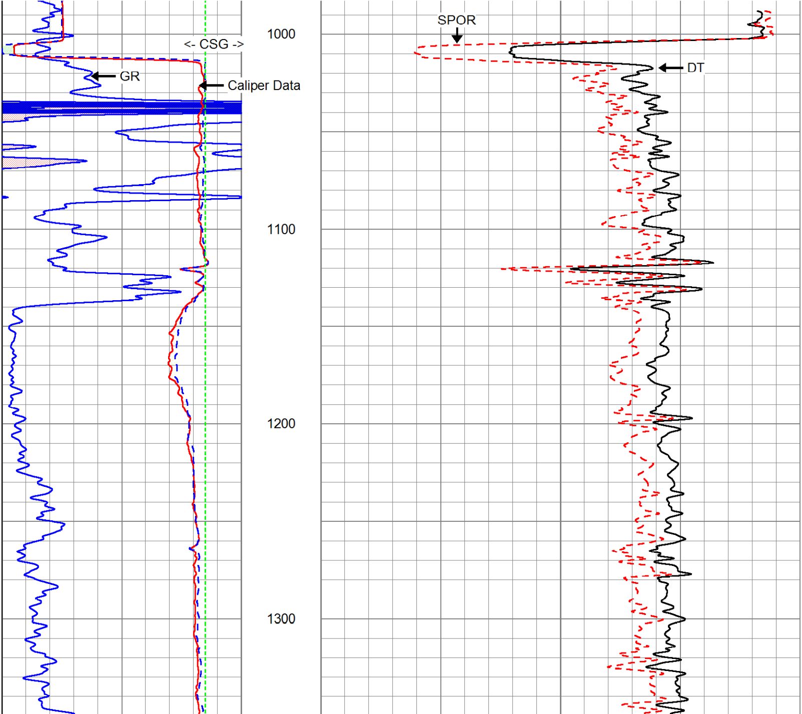
MV Geophysical

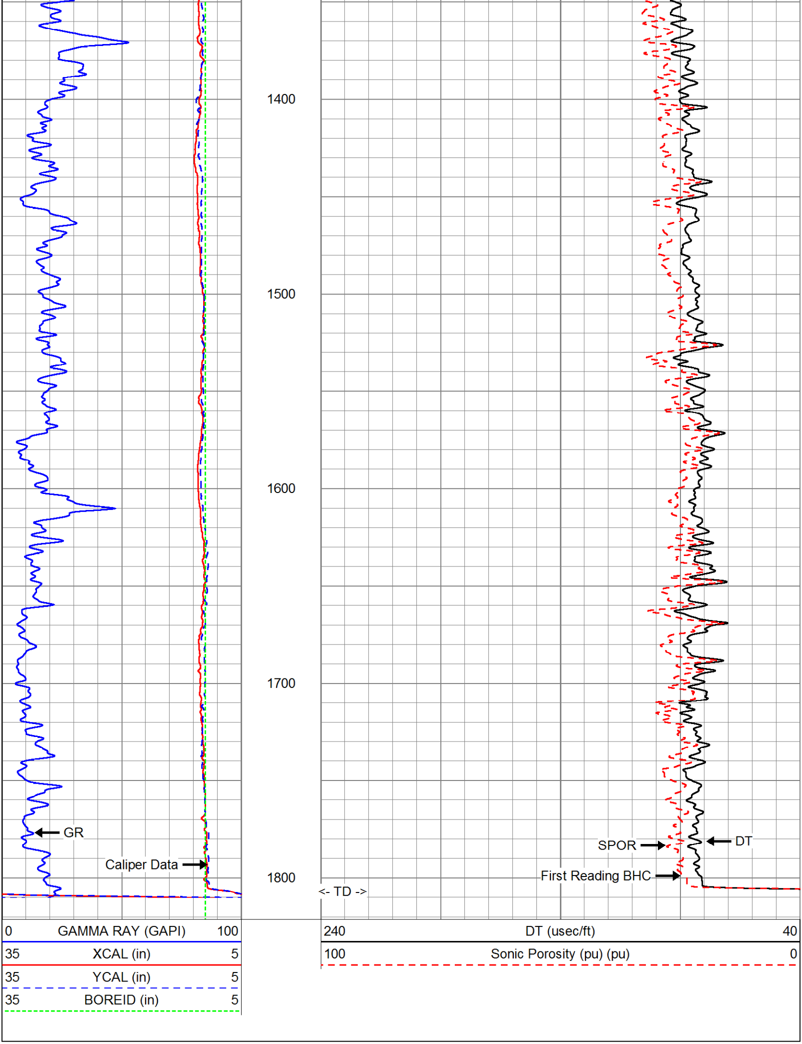
MAIN PASS

Database File: fddsunr2.db
Dataset Pathname: run6/MAIN
Presentation Format: dtxy5251
Dataset Creation: Wed Dec 12 09:51:56 2012
Charted by: Depth in Feet scaled 1:600

0 GAMMA RAY (GAPI) 100
35 XCAL (in) 5
35 YCAL (in) 5
35 BOREID (in) 5

240 DT (usec/ft) 40
100 Sonic Porosity (pu) (pu) 0

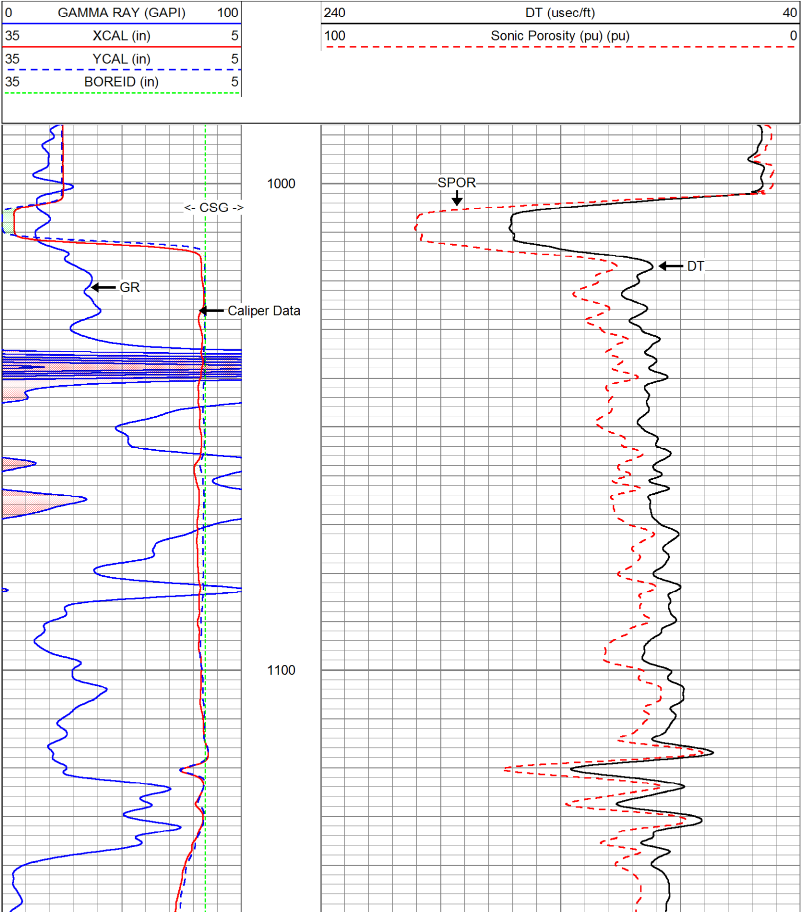


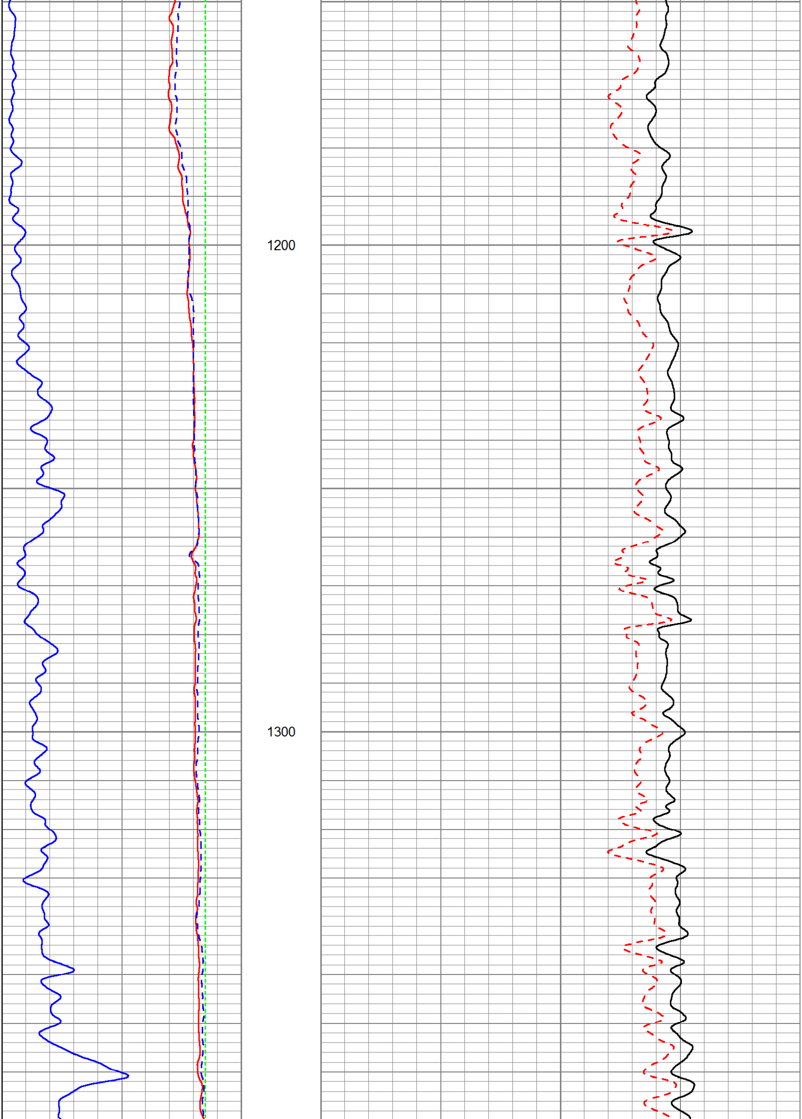


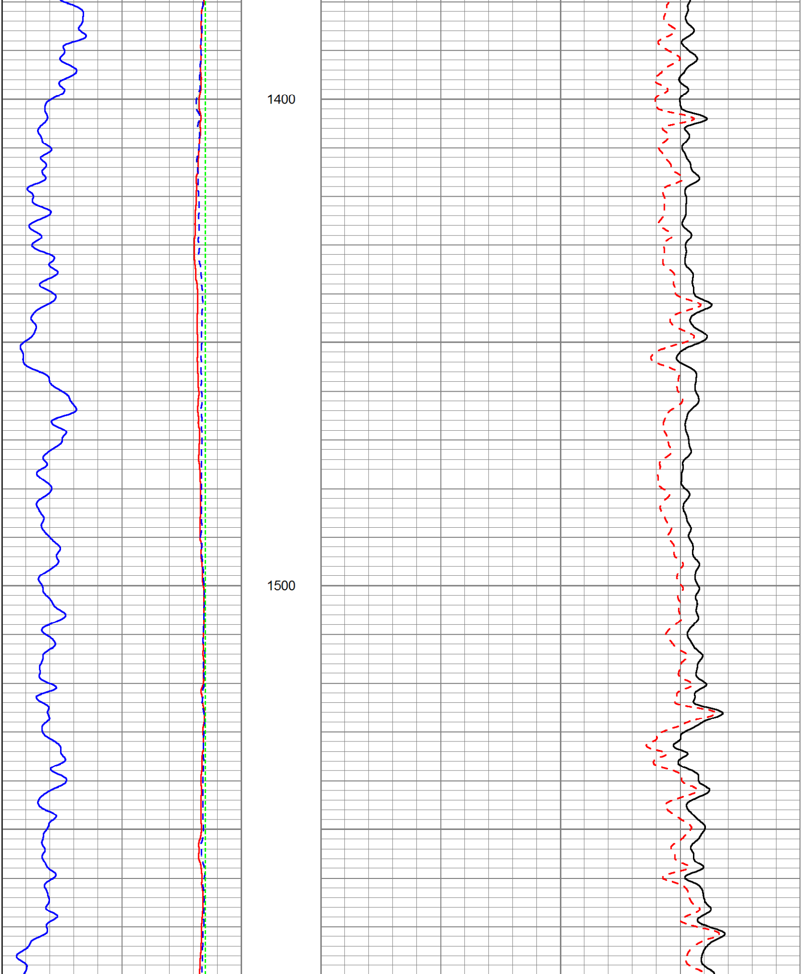
MV Geophysical

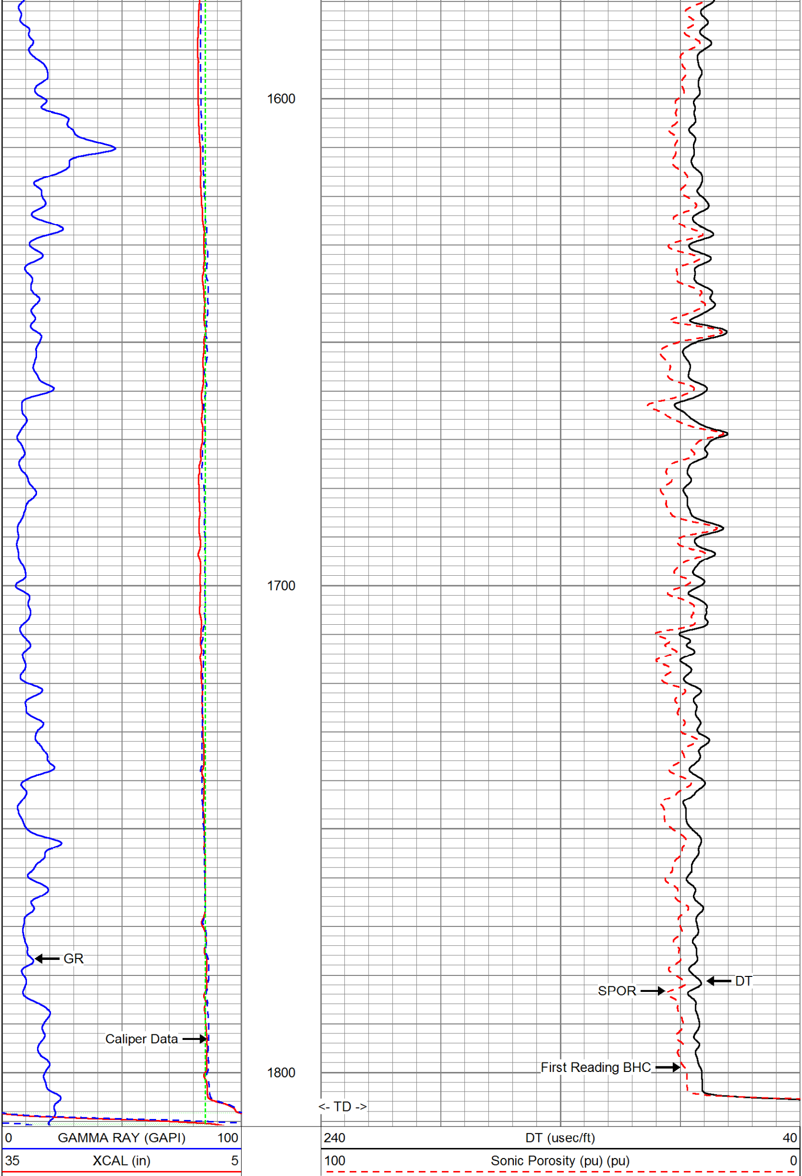
MAIN PASS

Database File:	fddsunr2.db
Dataset Pathname:	run6/MAIN
Presentation Format:	dtxy5251
Dataset Creation:	Wed Dec 12 09:51:56 2012
Charted by:	Depth in Feet scaled 1:240









35 YCAL (in) 5

35 BOREID (in) 5

MV Geophysical

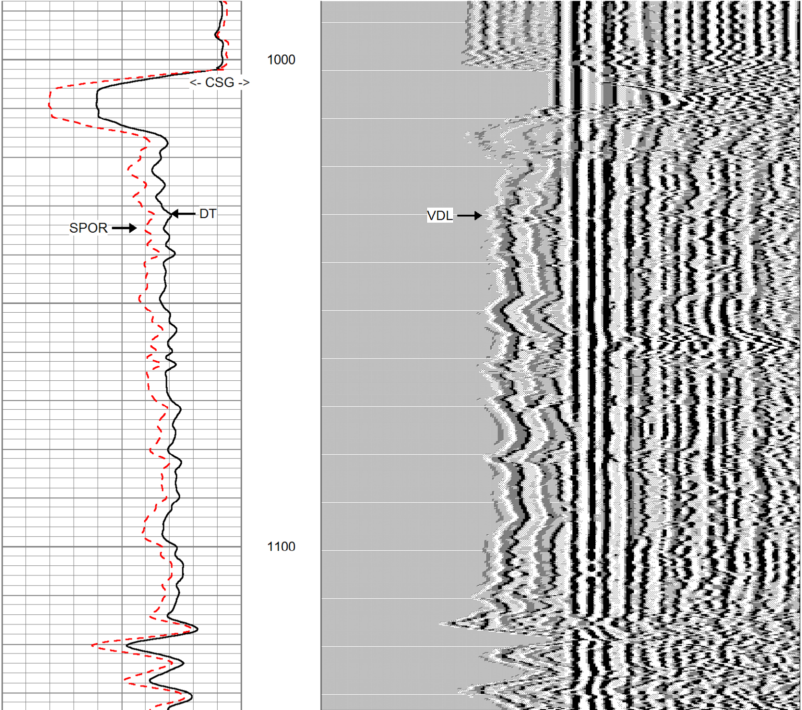
MAIN PASS

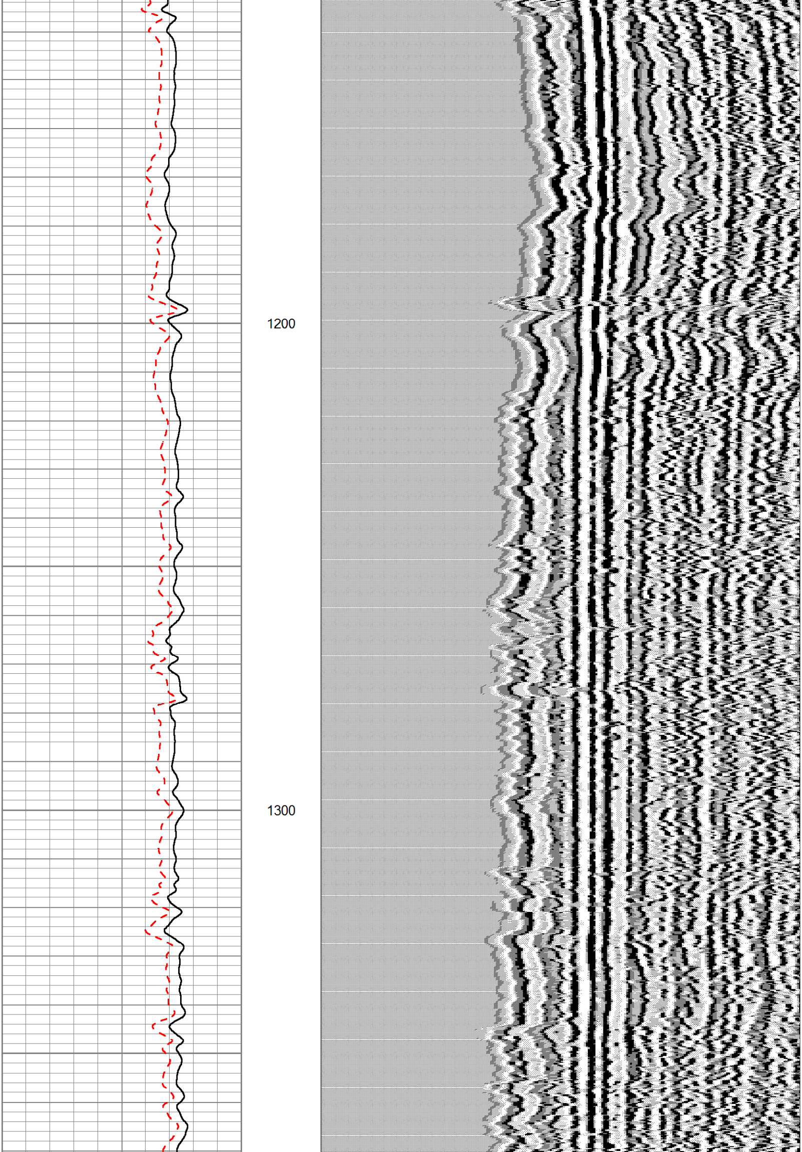
Database File:	fddsunr2.db
Dataset Pathname:	run6/MAIN
Presentation Format:	son_vdl
Dataset Creation:	Wed Dec 12 09:51:56 2012
Charted by:	Depth in Feet scaled 1:240

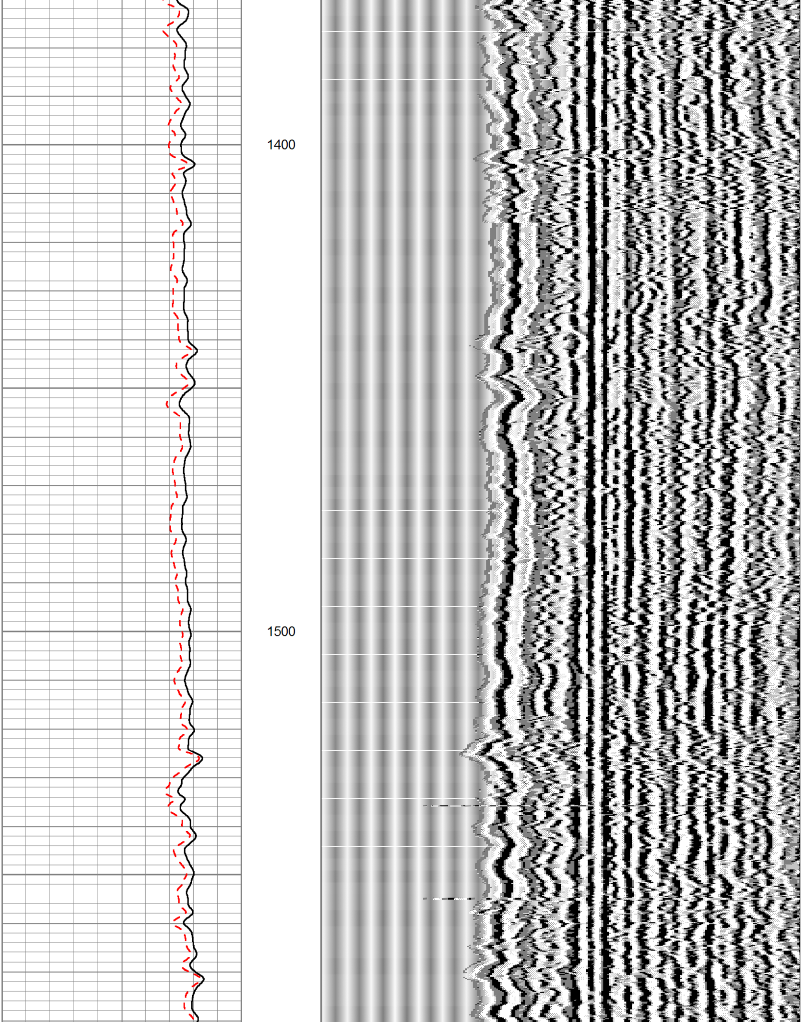
240 DT (usec/ft) 40

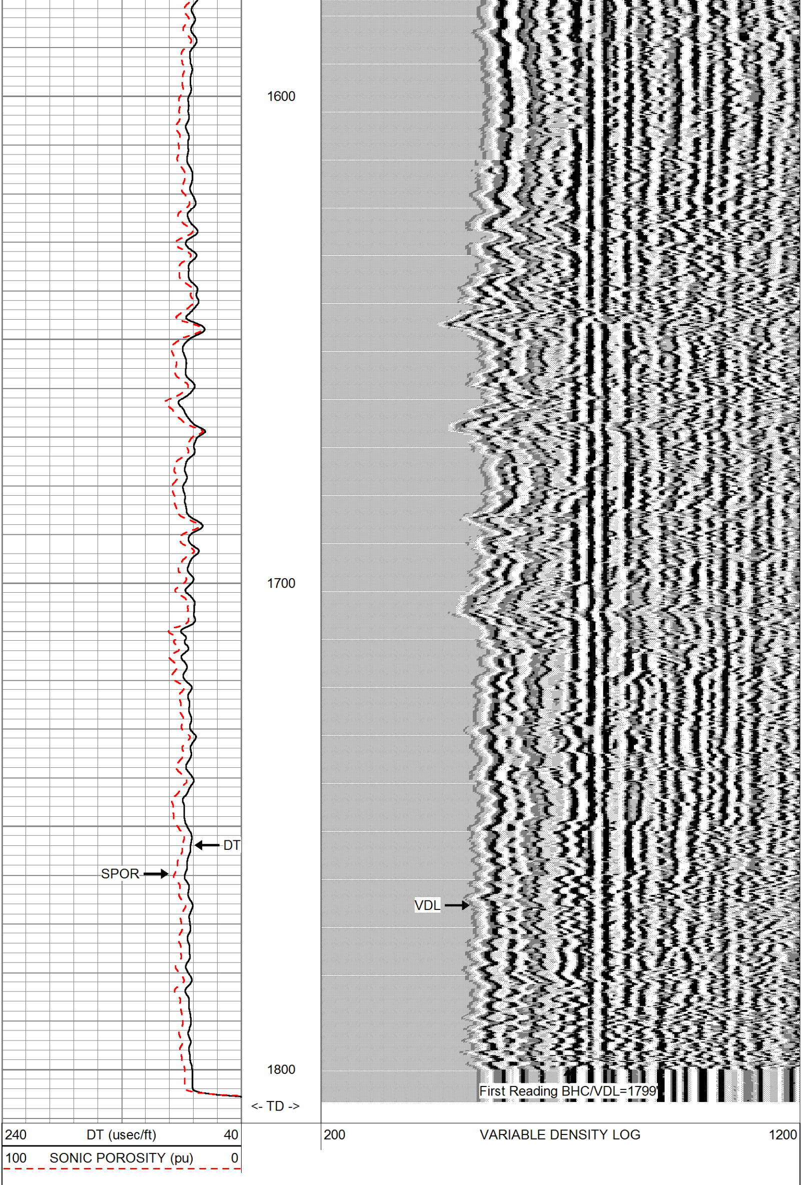
100 SONIC POROSITY (pu) 0

200 VARIABLE DENSITY LOG 1200





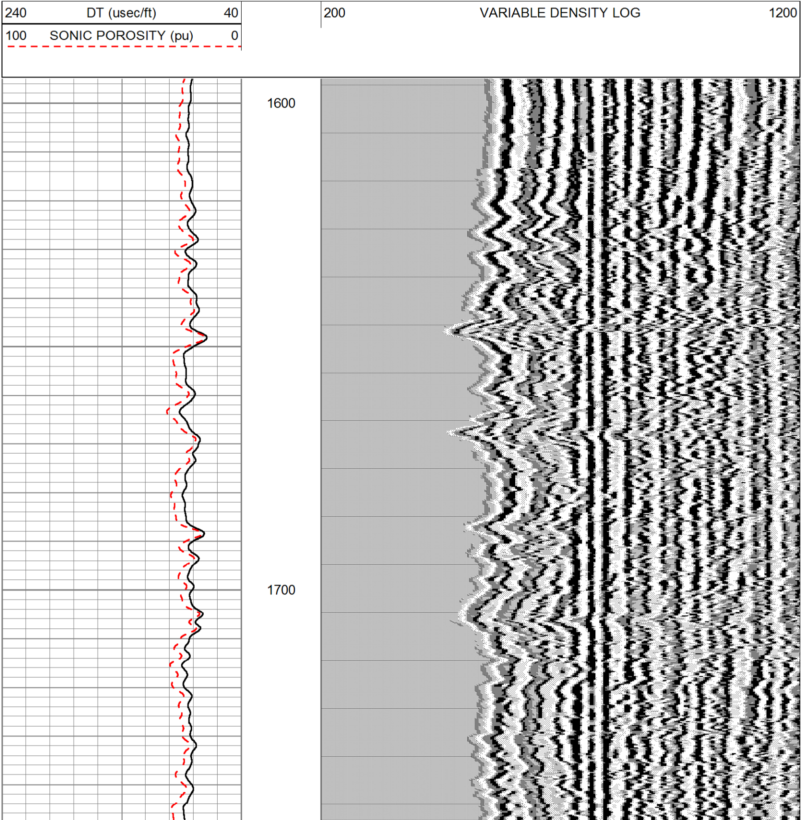


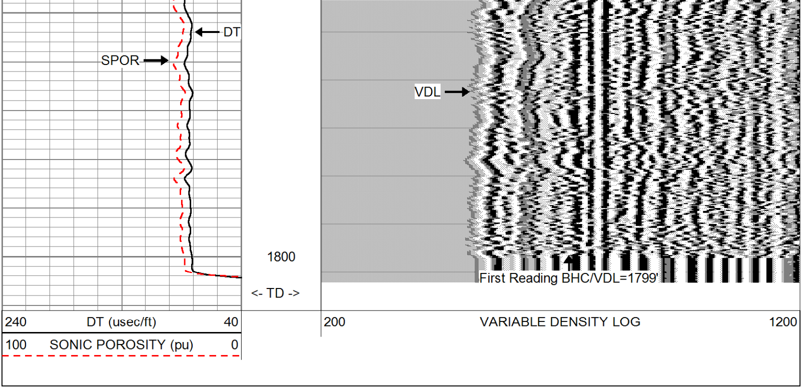


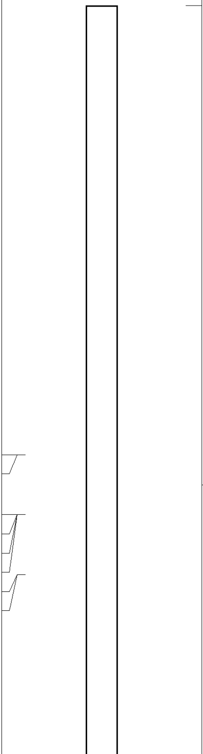
MV Geophysical

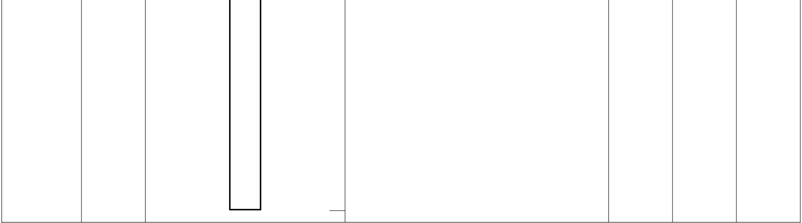
REPEAT SECTION

Database File:	fddsunr2.db
Dataset Pathname:	run6/repeat
Presentation Format:	son_vdl
Dataset Creation:	Wed Dec 12 09:33:22 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/run6/pass40
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

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

MV Geophysical

DUAL INDUCTION LL3 / SP 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 BHC,FLOW FCT,DHTV

			Elevation
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	1805'		
Top Log Interval	1005'		
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	14:15 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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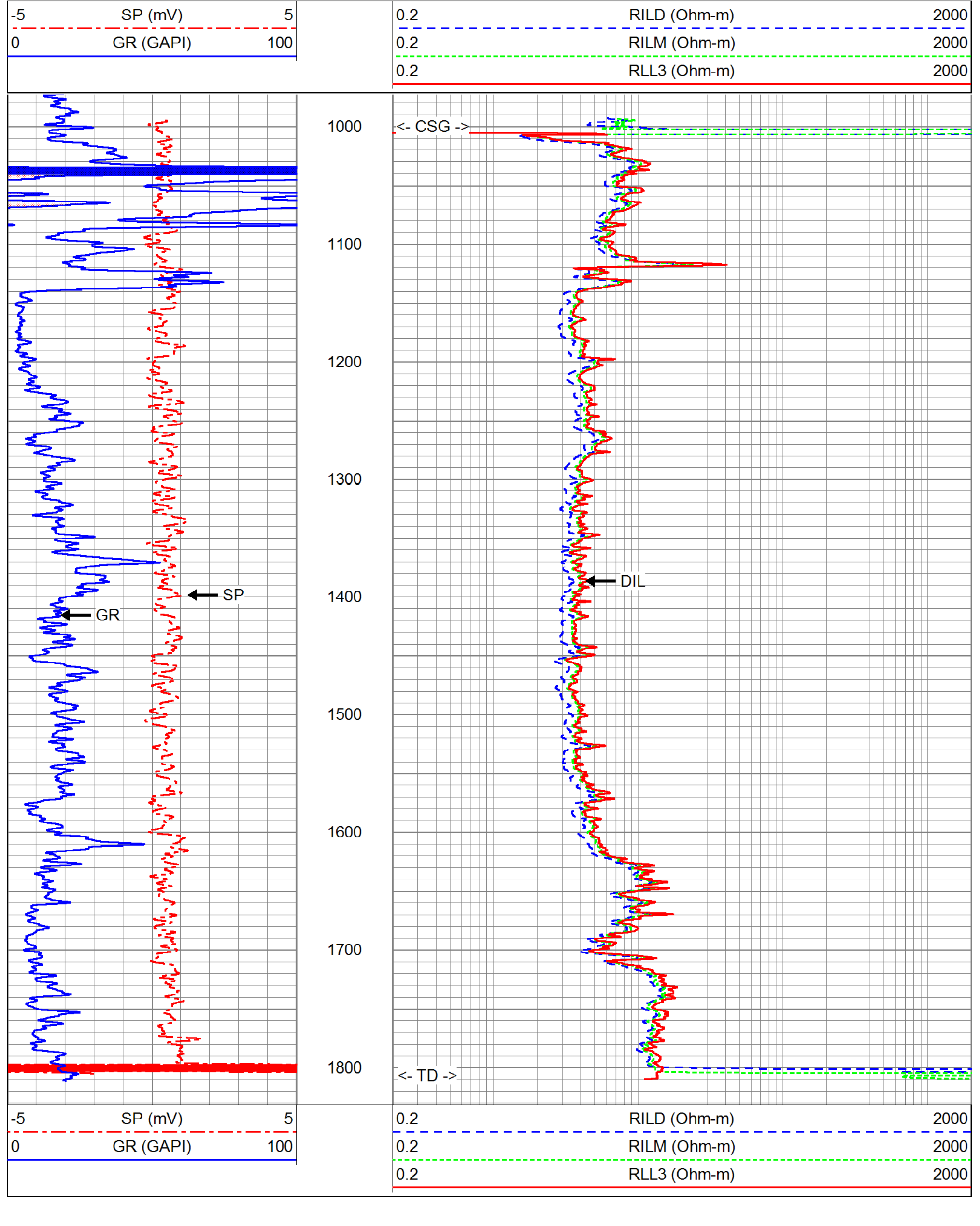
Comments

Rw=0.789 ohm-m @ 72.2 degF

MV Geophysical

MAIN PASS

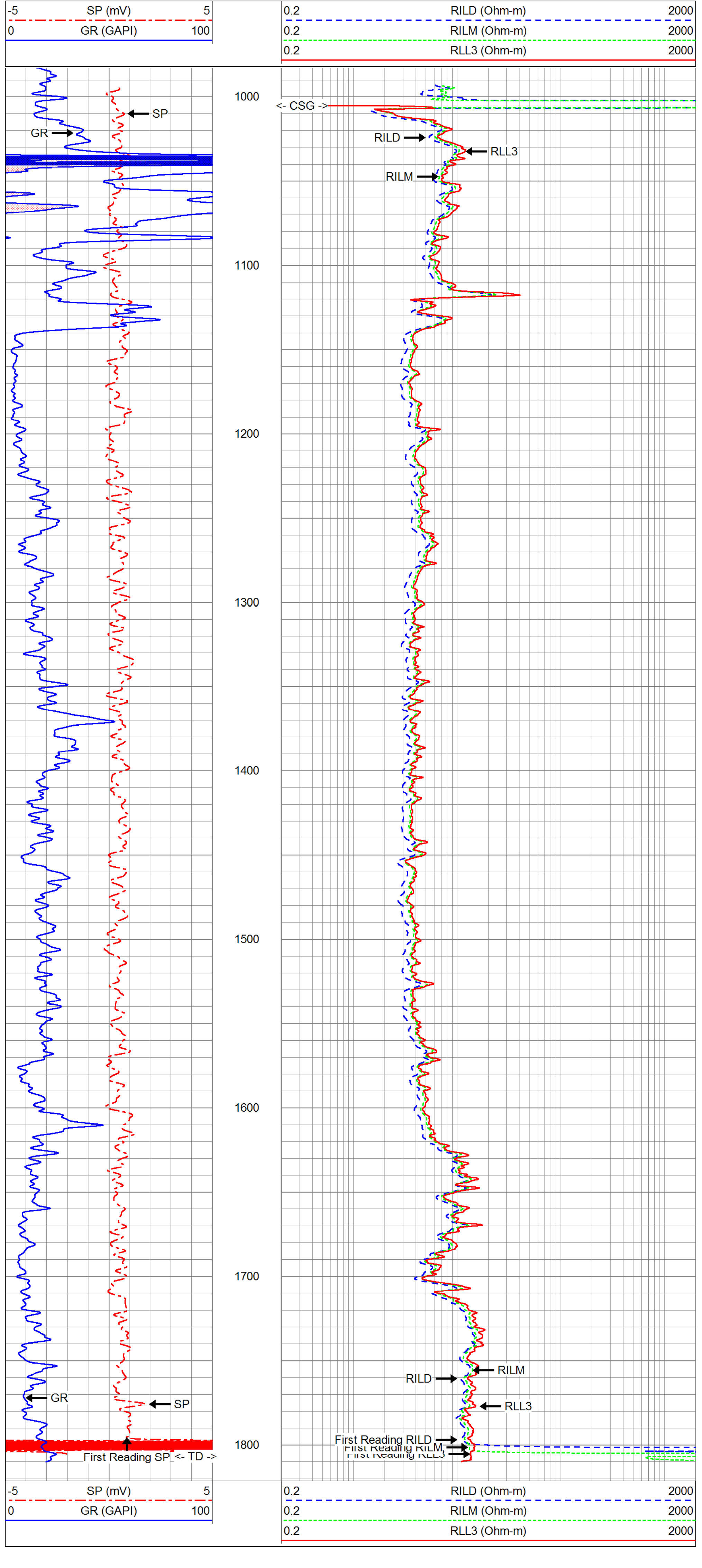
Database File: fddsunr2.db
Dataset Pathname: run6/MAIN
Presentation Format: dil-1
Dataset Creation: Wed Dec 12 09:51:56 2012
Charted by: Depth in Feet scaled 1:1200



MV Geophysical

MAIN PASS

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



MV Geophysical

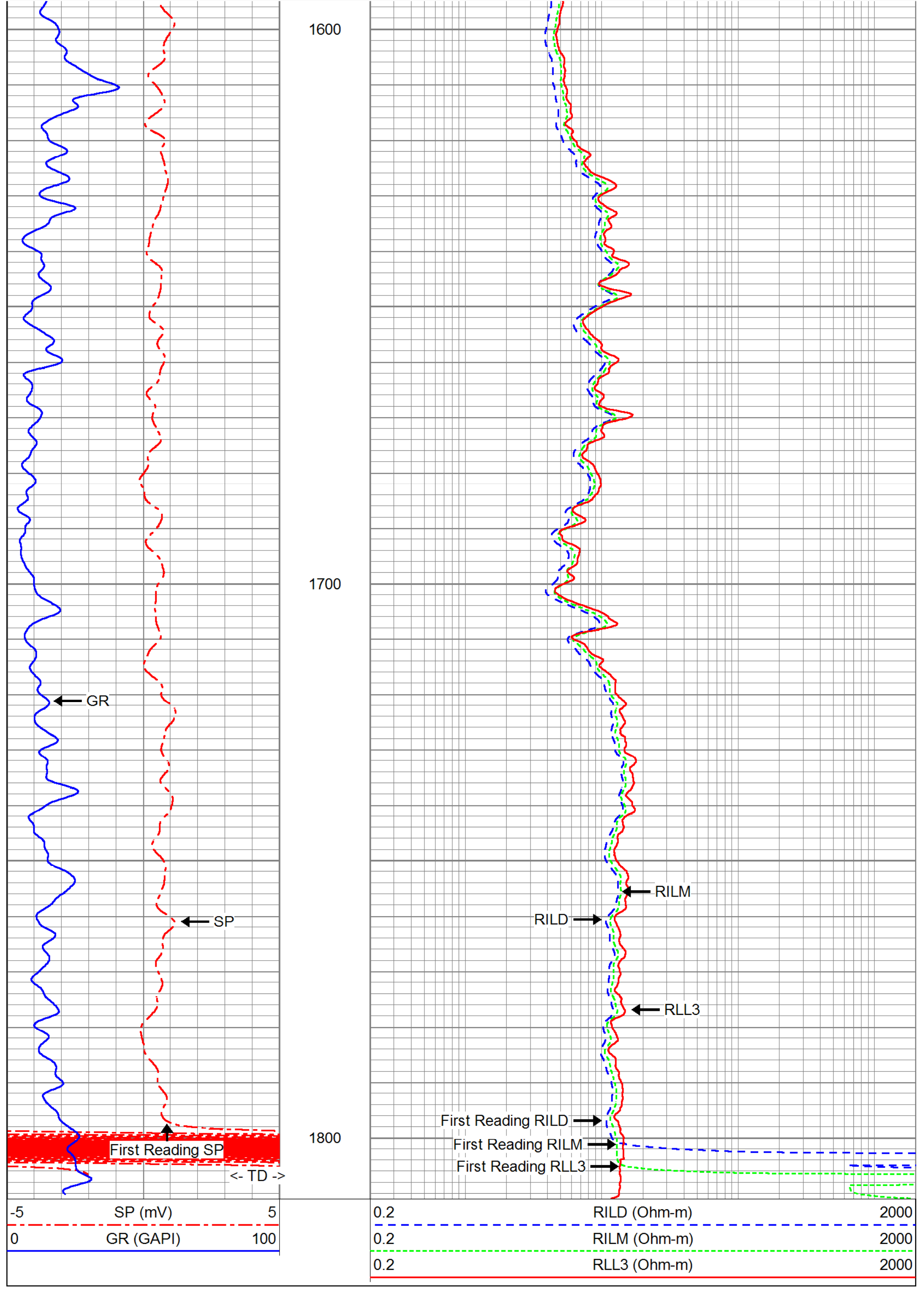
MAIN PASS

Database File: fddsunr2.db
Dataset Pathname: run6/MAIN
Presentation Format: dil-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: dil-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/pass38
Dataset Creation: Wed Dec 12 15:05:52 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

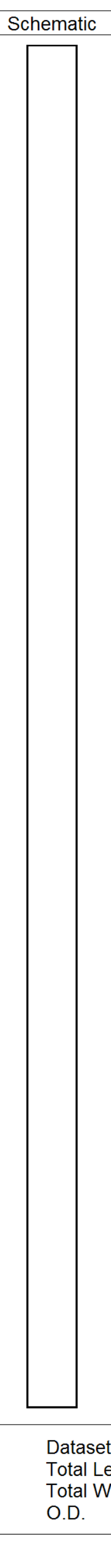
	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.051	0.645	V	0.000	400.000	mmho-m	673.401	-34.343
Medium	0.018	0.735	V	0.000	464.000	mmho-m	647.121	-11.545
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.641	V	0.000	400.000	mmho-m	635.021	-7.049
Medium	0.005	0.739	V	0.000	464.000	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	197.823	-2.995

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 SP	10.60 10.60		DIL-R (5390)	20.90	4.00	345.00
CILM	6.80					
RLL3	1.70					

Dataset: fddsunr2.db: field/well/run6/pass38
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

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

MV Geophysical

FLUID CONDUCTIVITY TEMPERATURE 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 BHC,FLOW FCT,DHTV
Permanent Datum	G.L.	Elevation	K.B. D.F. G.L.
Log Measured From	G.L.		
Drilling Measured From	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	09:45 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

STATIC and DYNAMIC down passes were performed.
Cw =12,670 uS/cm @ 72.2 degC @ Q=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

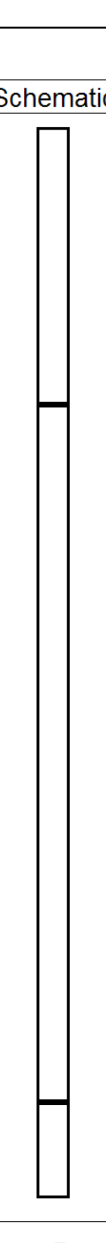
TEMPERATURE CALIBRATION REPORT (Performed: 8-DEC-12 09:45)

DEG-F	CPS
38.9	147.815
148.9	2690.25

MV Geophysical

S/D MERGED FCT

Database File:	fddsunr2.db
Dataset Pathname:	run6/SDFCT
Presentation Format:	fctsdsr1
Dataset Creation:	Wed Dec 12 12:15:42 2012
Charted by:	Depth in Feet scaled 1:240

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 -RTSB (MV01B)	3.33	1.90	10.00
GR#2	1.15					
TEMP	0.10		TEMP-RTS (MV01)	0.46	1.90	2.00

Dataset: fddsunr2.db: field/well/run6/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

MV Geophysical

FLOWMETER 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
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				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

STATIC and DYNAMIC down passes were made at 50 fpm.

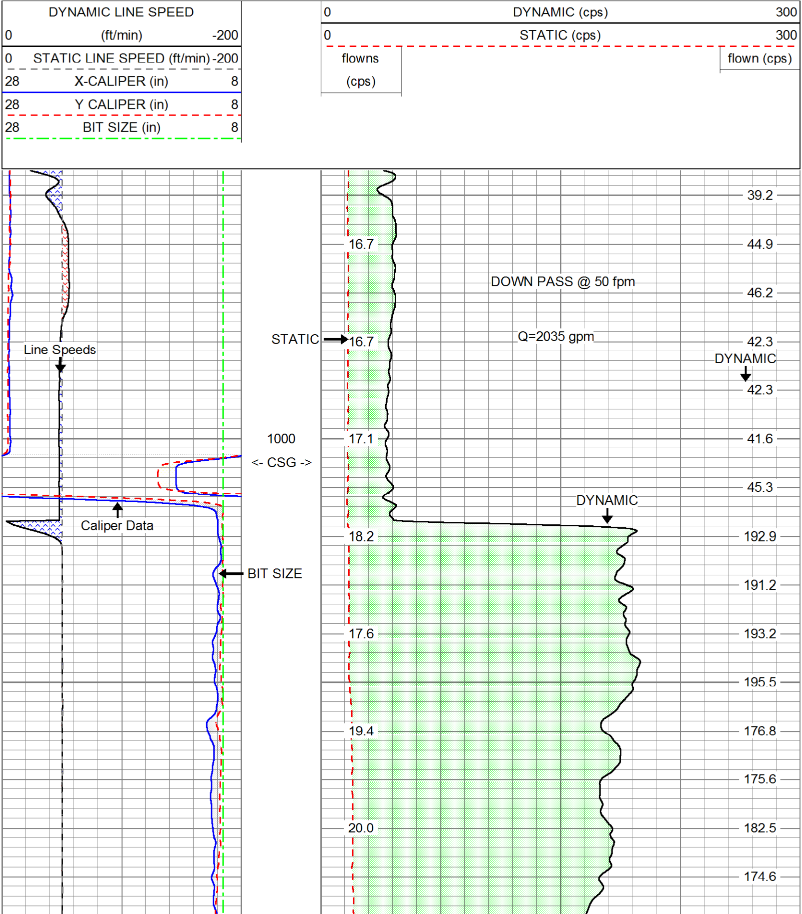
14 DYNAMIC and 2 STATIC stations performed.

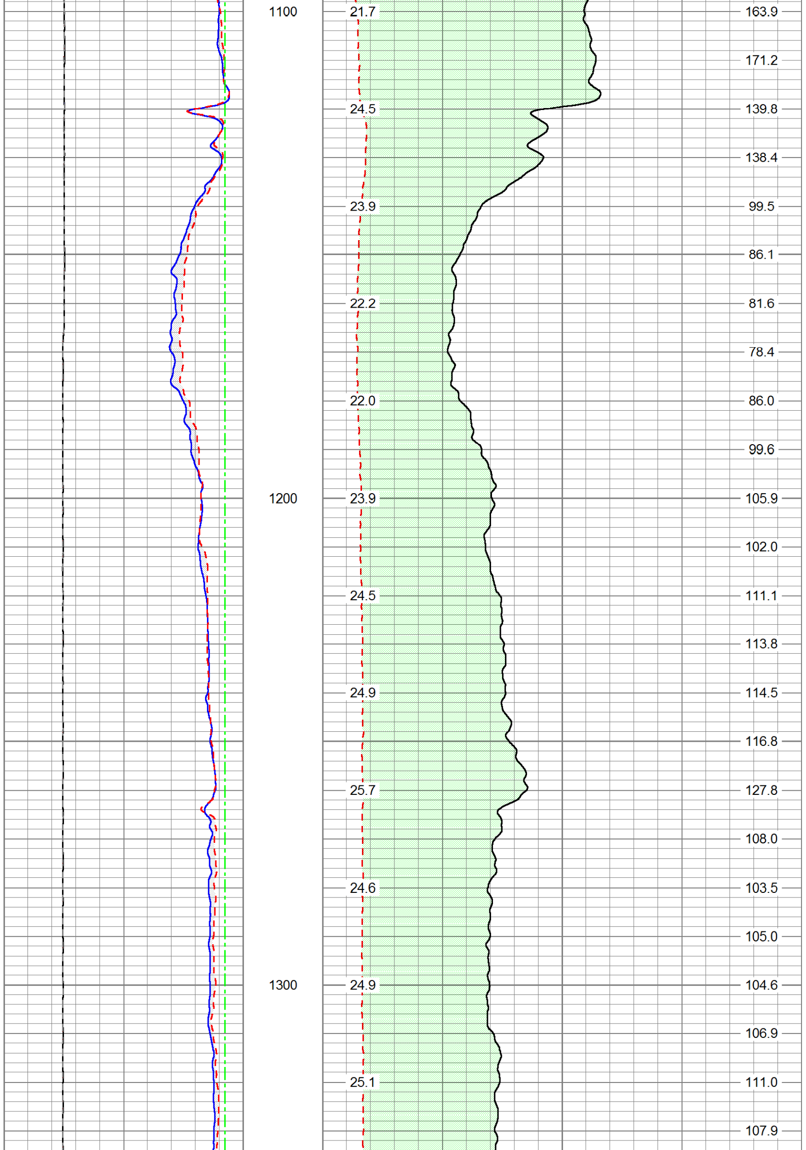
Q =~2035 gpm

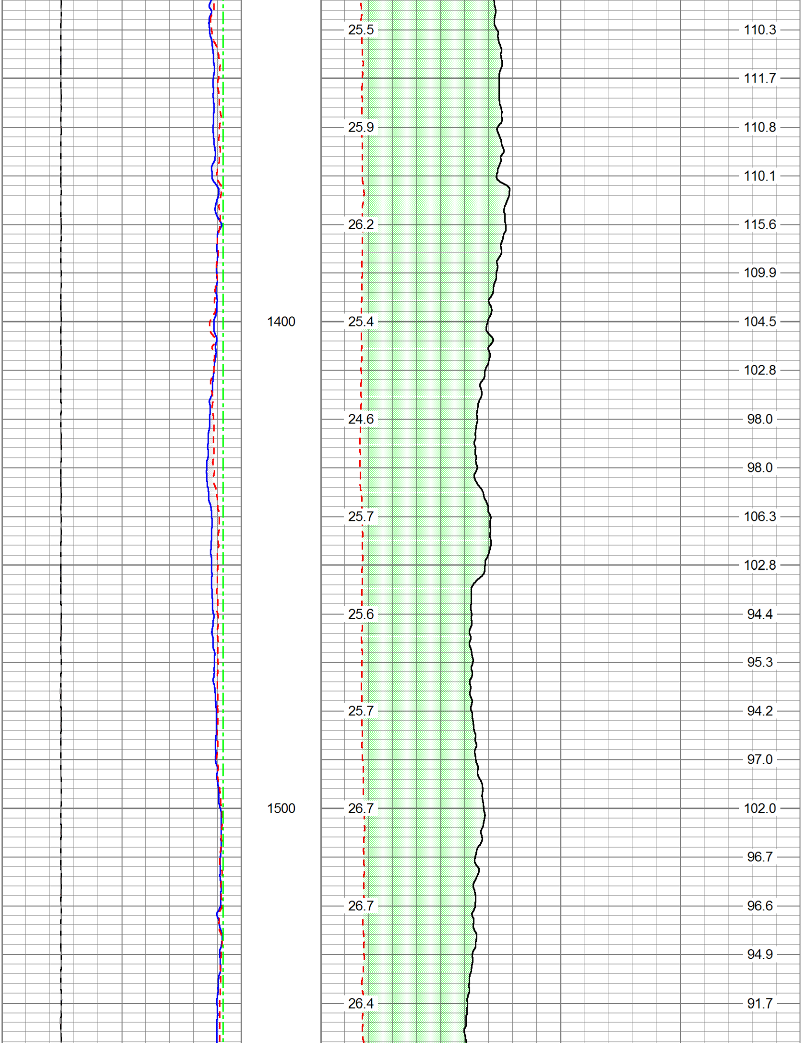
MV Geophysical

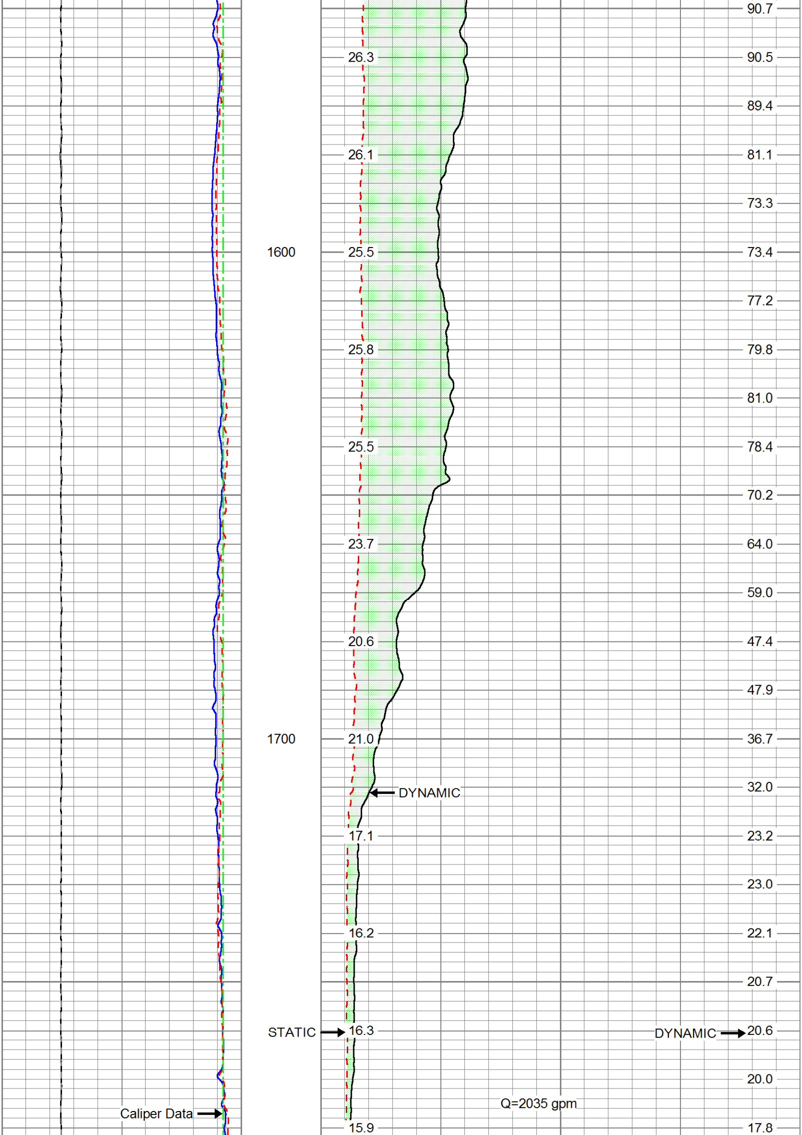
S/D DOWN @ 50 fpm

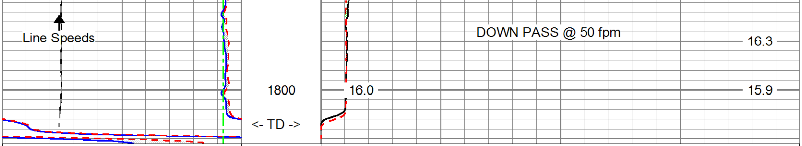
Database File:	fddsunr2.db
Dataset Pathname:	run6/SD50
Presentation Format:	q-300
Dataset Creation:	Wed Dec 12 13:30:36 2012
Charted by:	Depth in Feet scaled 1:240











DYNAMIC LINE SPEED
0 (ft/min) -200
0 STATIC LINE SPEED (ft/min) -200
28 X-CALIPER (in) 8
28 Y CALIPER (in) 8
28 BIT SIZE (in) 8

0 DYNAMIC (cps) 300
0 STATIC (cps) 300
flowns (cps)
flown (cps)

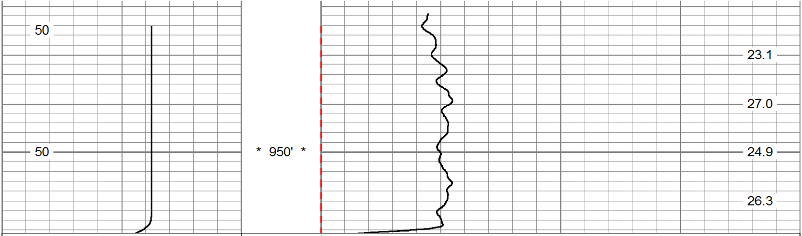
MV Geophysical

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

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

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



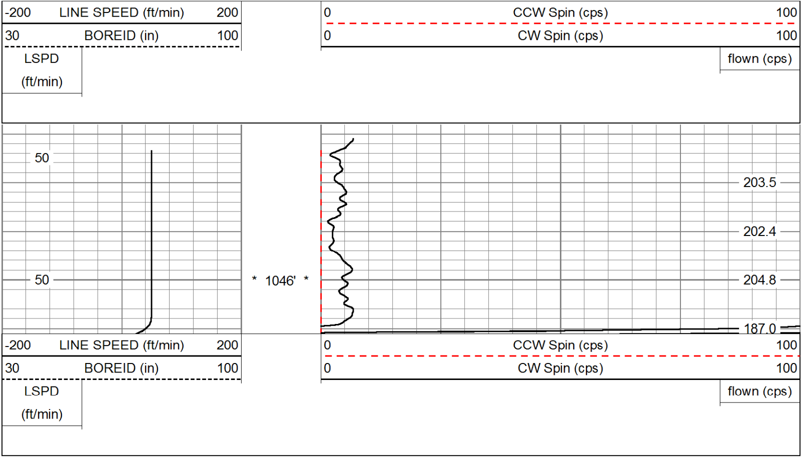
-200 LINE SPEED (ft/min) 200
30 BOREID (in) 100
LSPD (ft/min)

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

MV
Geophysical

Station #13: 1046'

Database File: fddsunr2.db
Dataset Pathname: run6/pass31
Presentation Format: flow
Dataset Creation: Wed Dec 12 14:00:03 2012 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240



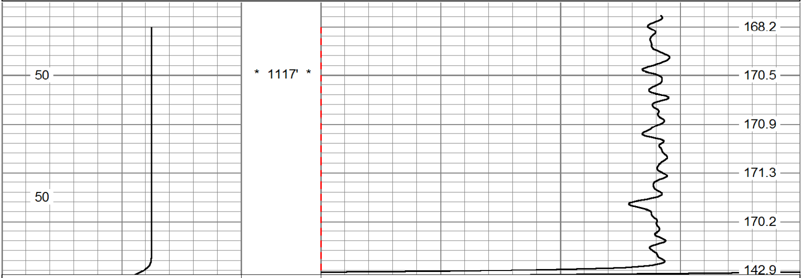
MV
Geophysical

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

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

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



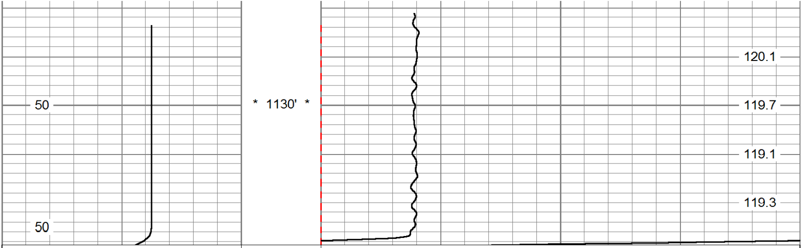
-200	LINE SPEED (ft/min)	200	0	CCW Spin (cps)	100
30	BOREID (in)	100	0	CW Spin (cps)	100
LSPD (ft/min)					flown (cps)

MV Geophysical

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

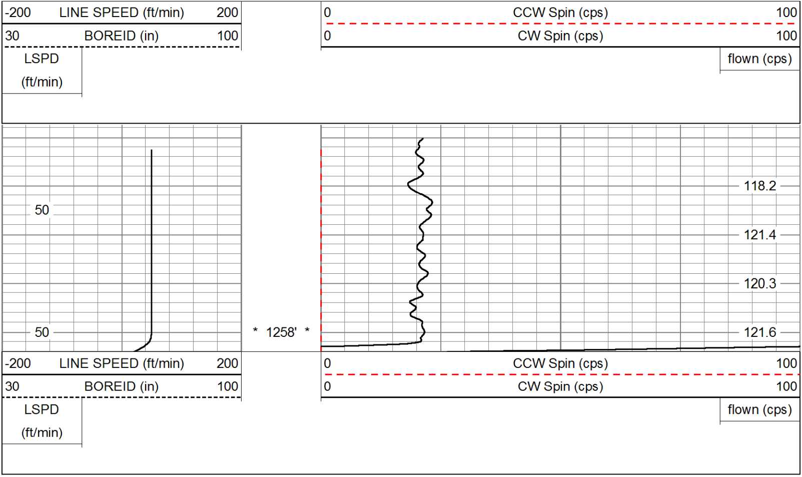
-200	LINE SPEED (ft/min)	200	0	CCW Spin (cps)	100
30	BOREID (in)	100	0	CW Spin (cps)	100
LSPD (ft/min)					flown (cps)



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

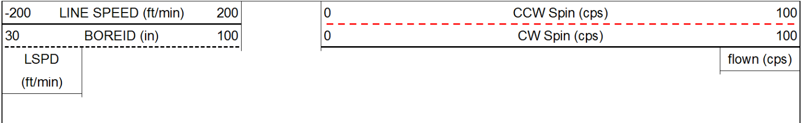
Station #10: 1258'

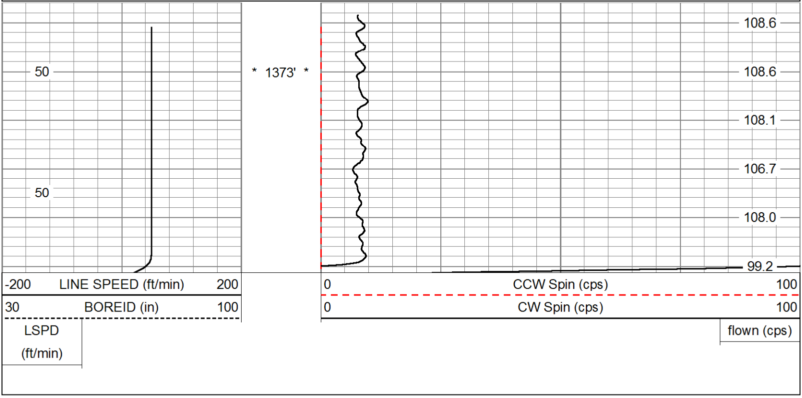
Database File: fddsunr2.db
Dataset Pathname: run6/pass28
Presentation Format: flow
Dataset Creation: Wed Dec 12 13:53:12 2012 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240



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

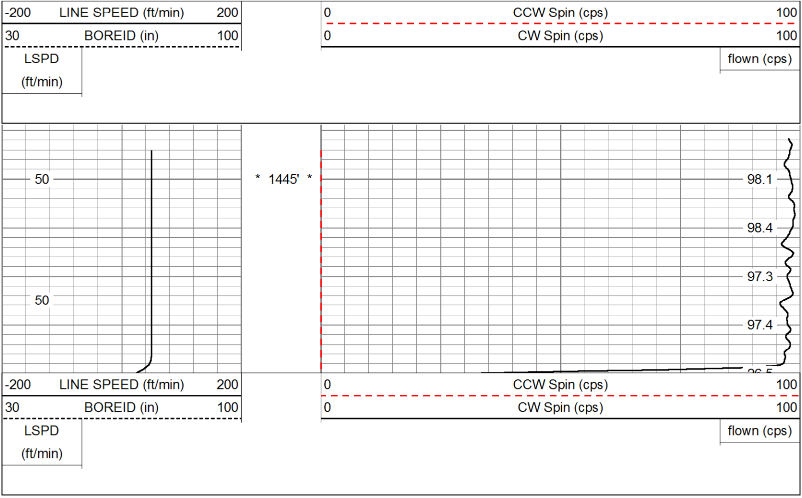




MV Geophysical

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



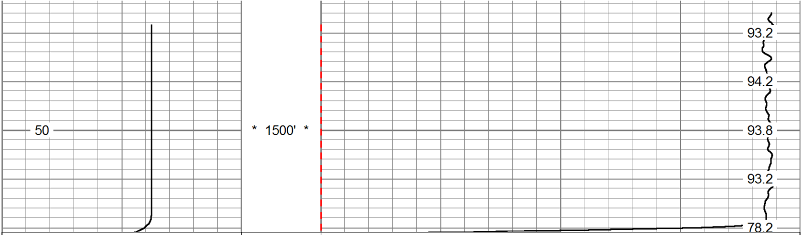
MV Geophysical

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

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

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



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

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

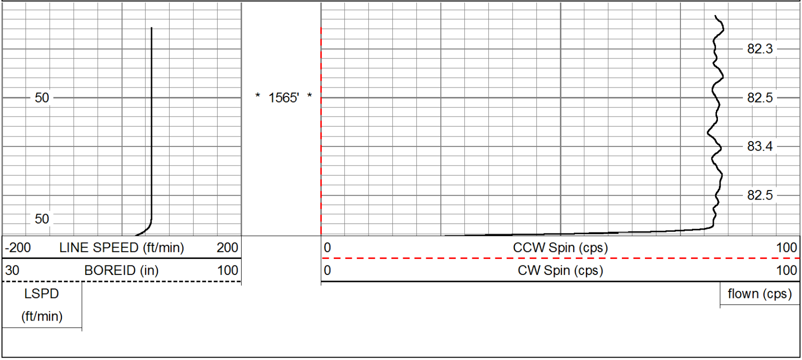
MV Geophysical

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

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

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



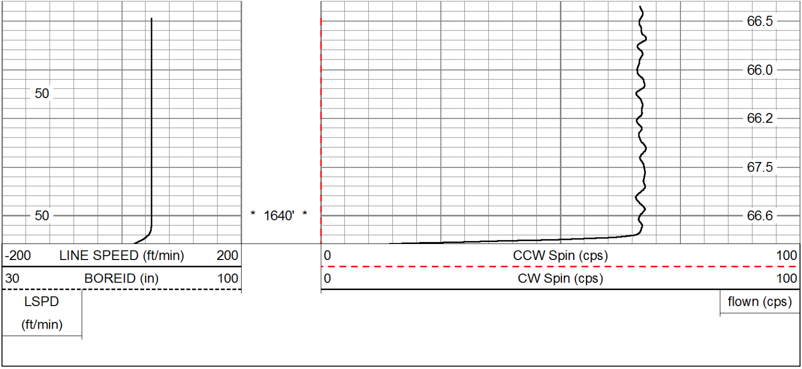
MV Geophysical

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

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

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



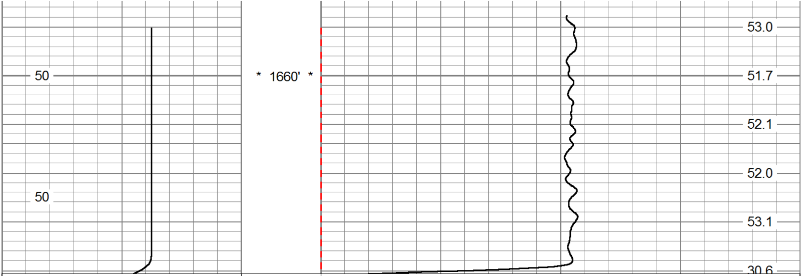
MV
Geophysical

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

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

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



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

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

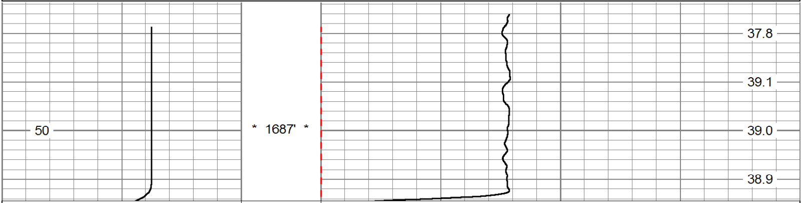
MV
Geophysical

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

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

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



-200 LINE SPEED (ft/min) 200

30 BOREID (in) 100

LSPD (ft/min)

0 CCW Spin (cps) 100

0 CW Spin (cps) 100

flown (cps)

MV Geophysical

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

-200 LINE SPEED (ft/min) 200

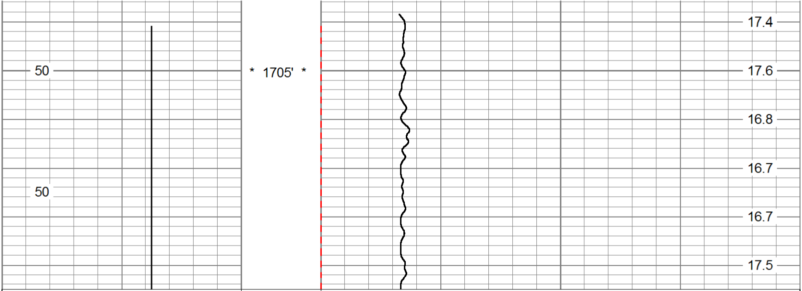
30 BOREID (in) 100

LSPD (ft/min)

0 CCW Spin (cps) 100

0 CW Spin (cps) 100

flown (cps)



-200 LINE SPEED (ft/min) 200

30 BOREID (in) 100

LSPD (ft/min)

0 CCW Spin (cps) 100

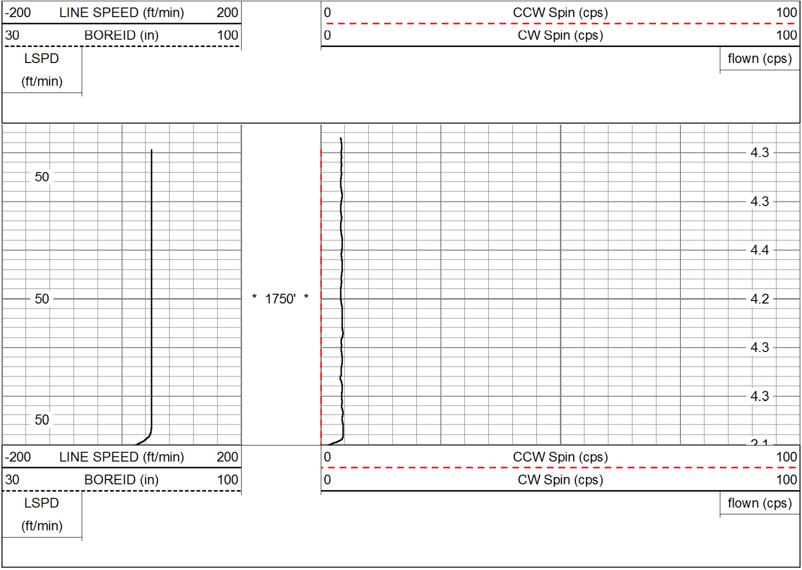
0 CW Spin (cps) 100

flown (cps)

MV Geophysical

Station #1: 1750'

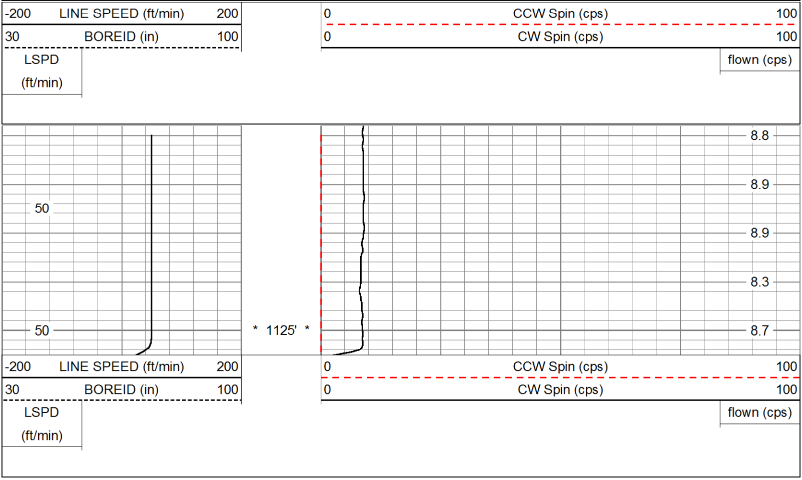
Database File: fddsunr2.db
Dataset Pathname: run6/pass18
Presentation Format: flow
Dataset Creation: Wed Dec 12 13:32:40 2012 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240



MV Geophysical

STATIC STATION #2: 1125'

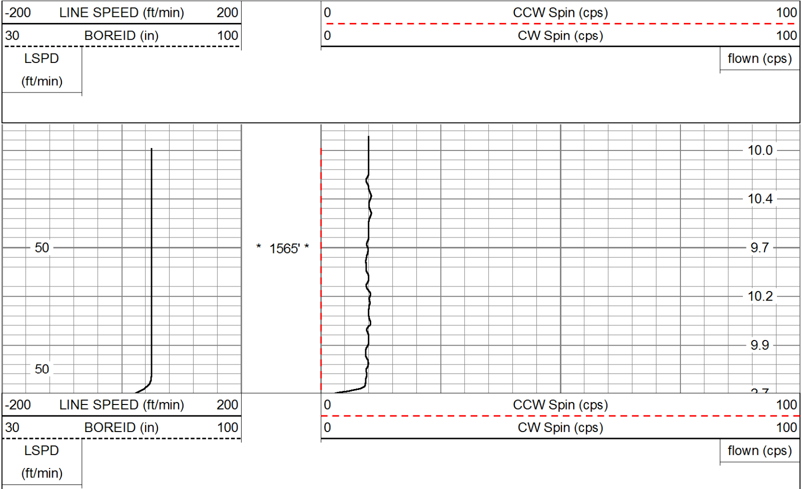
Database File: fddsunr2.db
Dataset Pathname: run6/pass16
Presentation Format: flow
Dataset Creation: Wed Dec 12 12:55:36 2012 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240



MV
Geophysical

STATIC STATION #1: 1565'

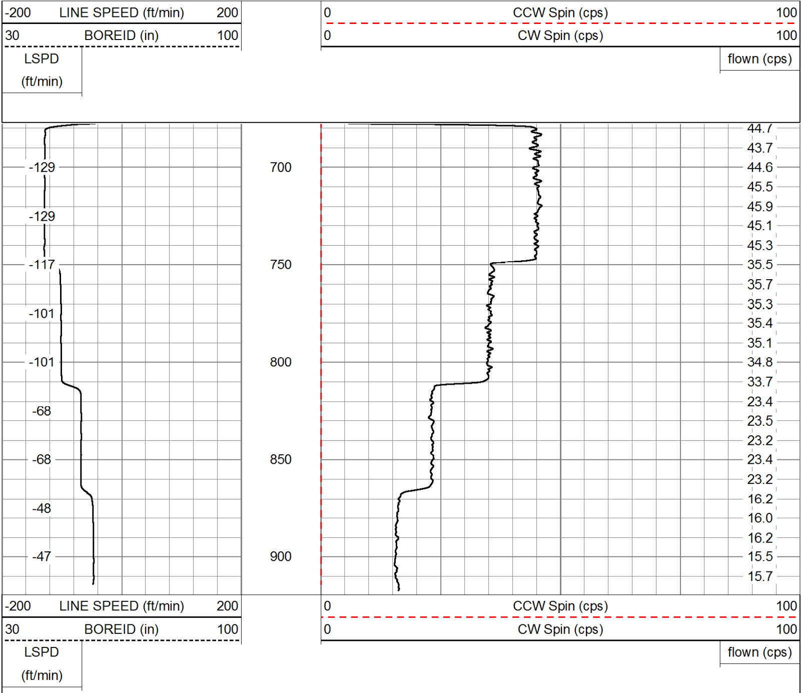
Database File:	fddsunr2.db
Dataset Pathname:	run6/pass14
Presentation Format:	flow
Dataset Creation:	Wed Dec 12 12:50:06 2012 by Log VER_5.3
Charted by:	Depth in Feet scaled 1:240

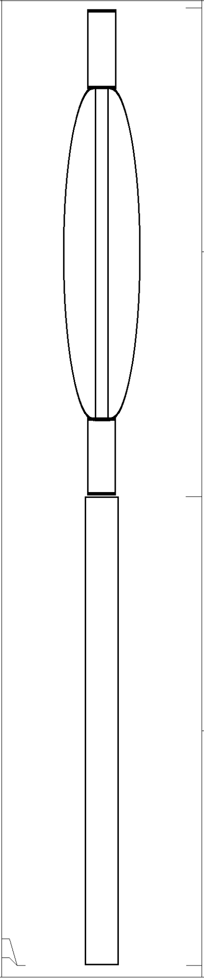


MV Geophysical

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

		Elevation	Elevation
Permanent Datum	G.L.		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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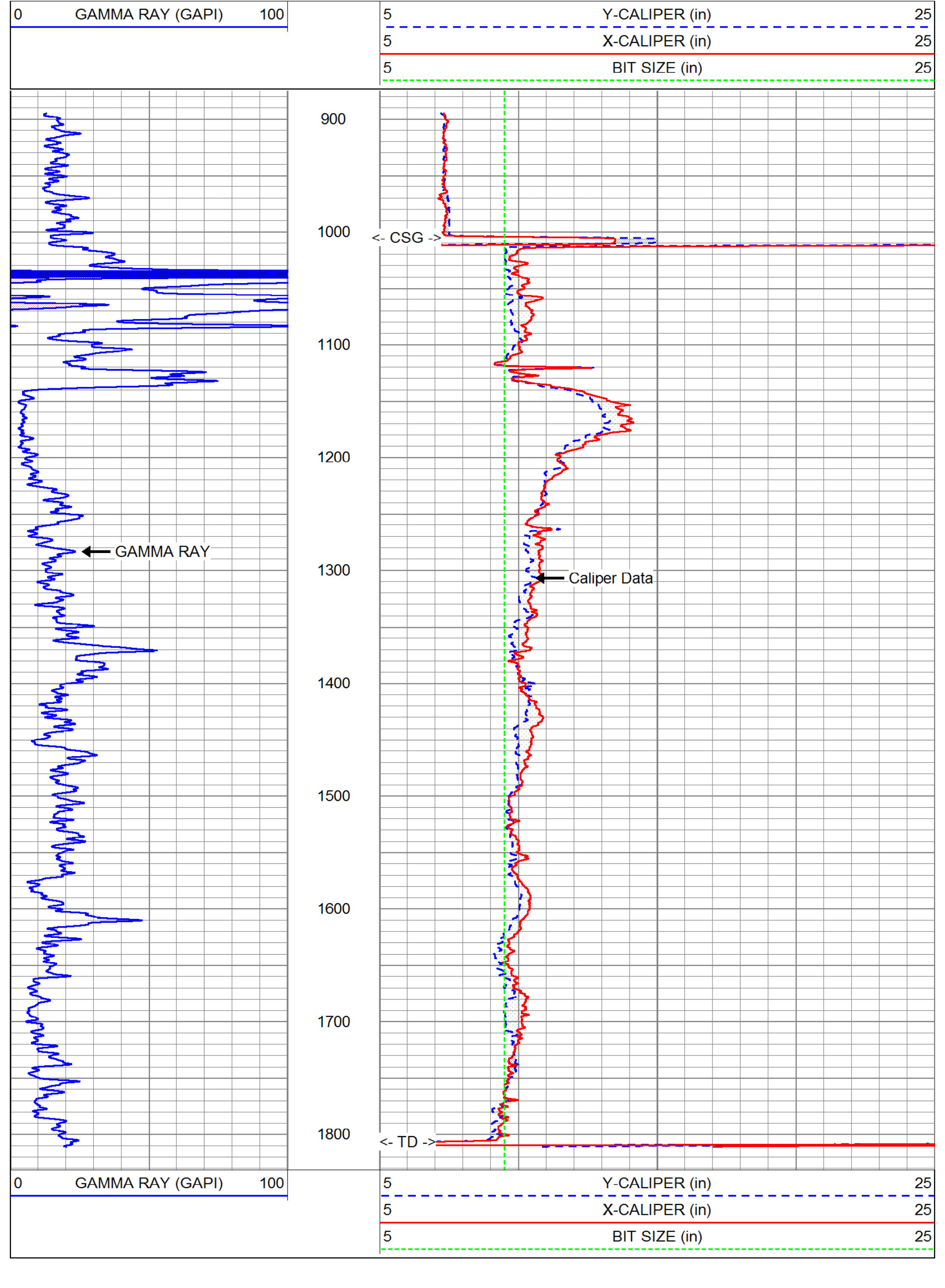
Comments

X-Y Caliper Arm Extensions: 33"

MV Geophysical

MAIN PASS

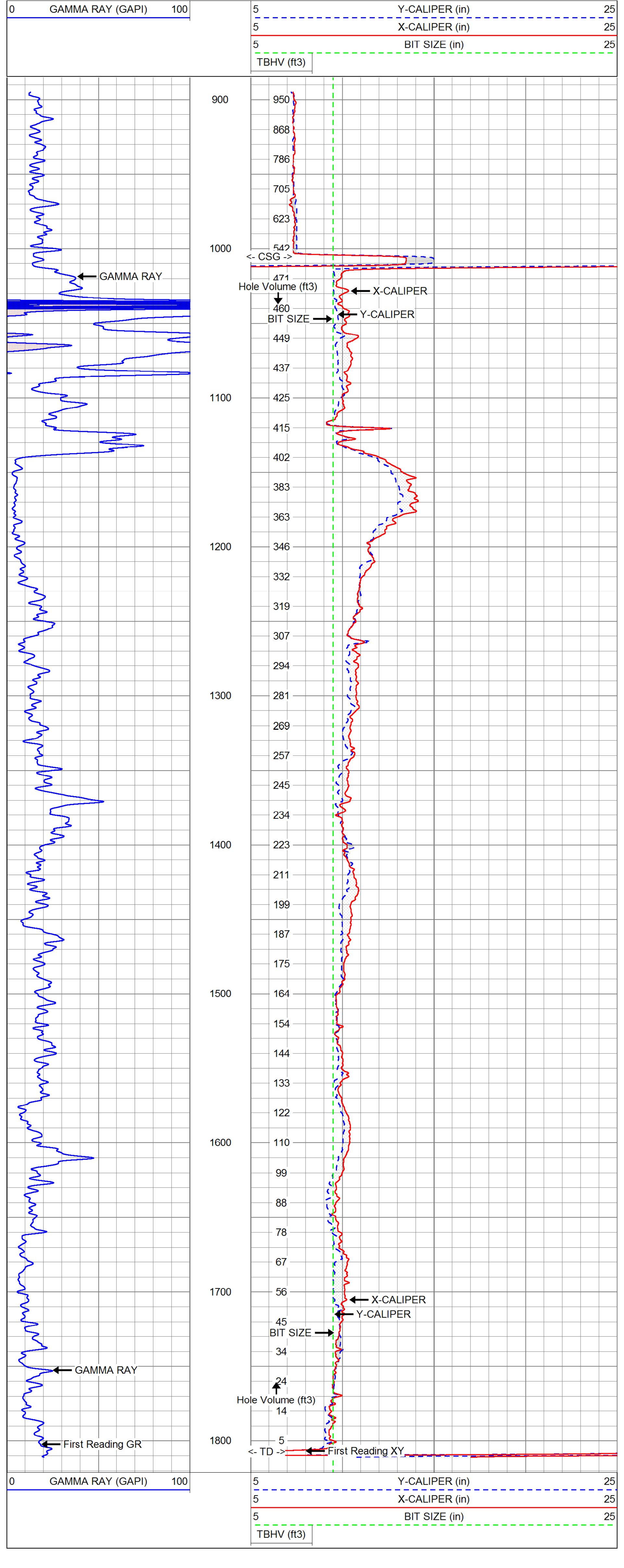
Database File: fddsunr2.db
Dataset Pathname: run6/MAIN
Presentation Format: xy525-1
Dataset Creation: Wed Dec 12 09:51:56 2012
Charted by: Depth in Feet scaled 1:1200



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

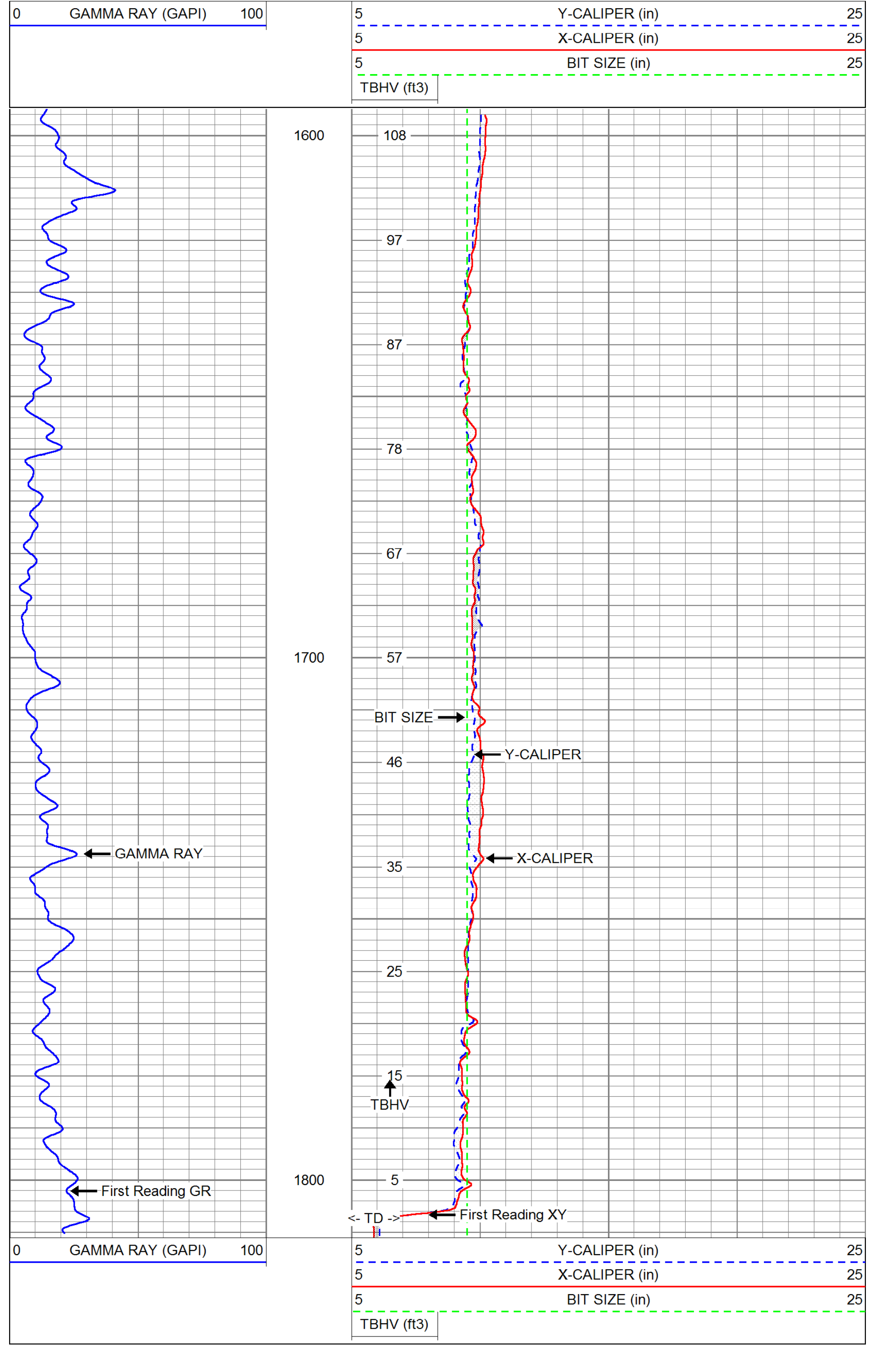
MAIN PASS

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 YCAL	0.50 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

FLOWMETER INTERPRETATION

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

		Elevation	Elevation	
Permanent Datum	G.L.		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	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				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

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: fddsunr2.db
Dataset Pathname: run6/lq50
Presentation Format: flointsr
Dataset Creation: Thu Dec 13 18:06:47 2012
Charted by: Depth in Feet scaled 1:240

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

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

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

		Elevation		
Permanent Datum	G.L.		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	1799'
Top Log Interval	993'
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

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

MV Geophysical

MAIN PASS

Database File:	fddsunr2.db
Dataset Pathname:	run6/MAIN
Presentation Format:	tdsman3
Dataset Creation:	Wed Dec 12 09:51:56 2012
Charted by:	Depth in Feet scaled 1:240

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

X-Y CALIPER
GAMMA RAY
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
NONE

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

Date	20-JAN-2013
Run Number	SEVEN
Depth Driller	1152'
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	14:00 1/20/2013
Time Logger on Bottom	14:30 1/20/2013
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'	SIX	26"	1005'	1151'
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				

Invoice No.	2013010	10x/.pdf/.las	fddsunr2.db	* Field Print *

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Comments

X-Y Caliper Arm Extensions: 51"

FUTURE CASING SIZE: 17" OD

BOREHOLE VOLUME CALCULATIONS IN BARRELS.

MV Geophysical

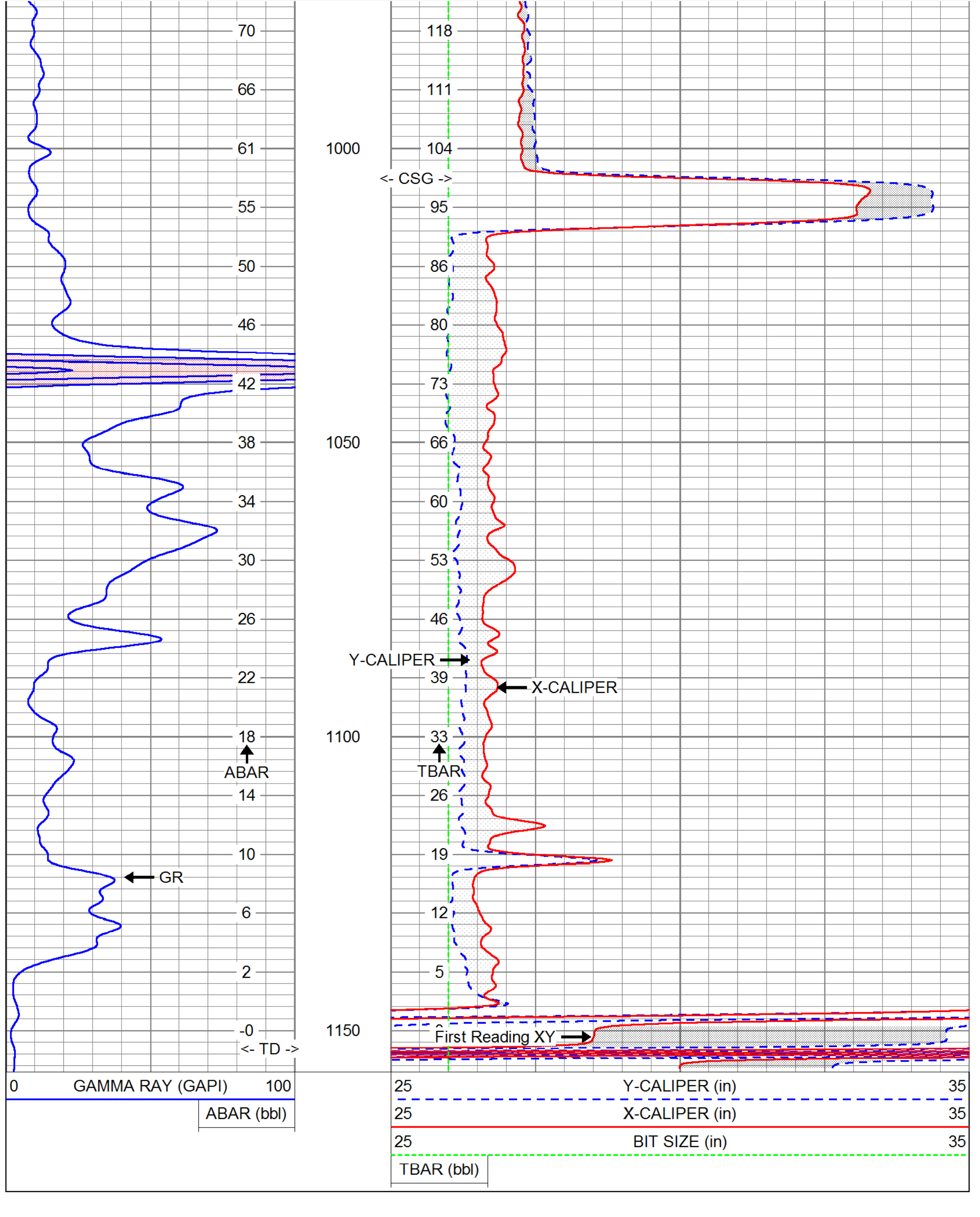
MAIN PASS

Database File: fddsunr2.db
Dataset Pathname: run7/MAIN
Presentation Format: xy2535-5
Dataset Creation: Mon Jan 21 15:48:27 2013
Charted by: Depth in Feet scaled 1:240

MV Geophysical

REPEAT SECTION

Database File: fddsunr2.db
Dataset Pathname: run7/REPEAT
Presentation Format: xy2535-5
Dataset Creation: Mon Jan 21 15:16:22 2013
Charted by: Depth in Feet scaled 1:240



Calibration Report

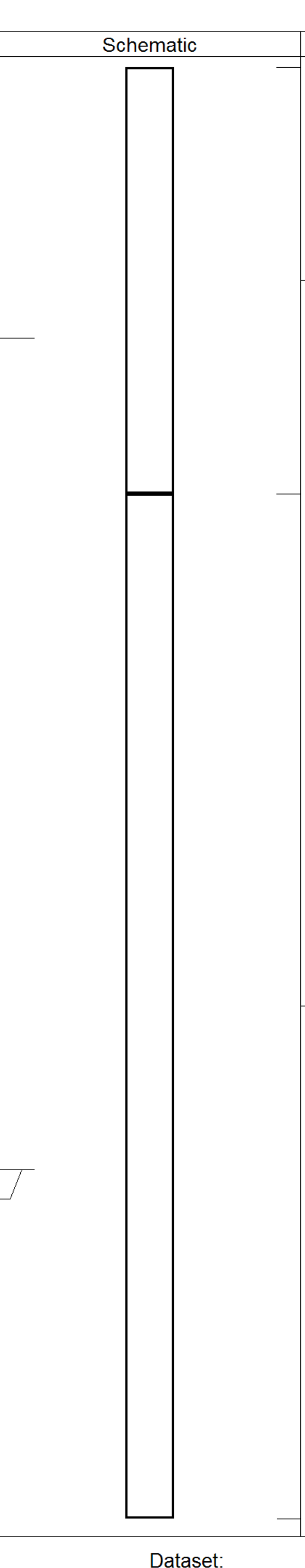
Database File: fddsunr2.db
Dataset Pathname: run7/pass2
Dataset Creation: Mon Jan 21 15:11:30 2013 by Log VER_5.3

XY Caliper Calibration Report

Serial Number:	01L		
Tool Model:	XYCL		
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:	789.5	763.5	cps
Reading with Large Ring:	1100.2	1022.8	cps
Gain:	0.0764403	0.0915928	
Offset:	-33.0996	-42.6811	

Gamma Ray Calibration Report

Serial Number:	01	
Tool Model:	GROH	
Performed:	Mon Jan 14 11:58:24 2013	
Calibrator Value:	120	GAPI
Background Reading:	12.337	cps
Calibrator Reading:	134.222	cps
Sensitivity:	0.984535	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 YCAL	2.25 2.25		XYC-XYCL (01L)	6.60	3.50	87.00

Dataset: fddsunr2.db: field/well/run7/pass2
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