Report on the Construction and Testing of Class V Exploratory Well EW-1
at the Florida Power & Light Company Turkey Point Units 6 & 7

Prepared for the Florida Power & Light Company

McNabb
Hydrogeologic
Consulting, Inc.

Volume 2
September 2012

ASRUS, LLC

Appendix L
Geophysical Logs

MV Geophysical

X-Y CALIPER GAMMA RAY LOG

Company	Layne Christensen Company
Well	Turkey Point EW-1
Field	Florida City
County	Miami-Dade
State/Prv	Florida
Location	FPL Turkey Point Power Plant LAT: 25 25' 19" N LONG: 80 20' 08" W McNabb Hydrogeologic, Inc.
Other Services	NONE

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

Date	15-MAY-2011
Run Number	ONE
Depth Driller	255'
Depth Logger	255'
Bottom Logged Interval	255'
Top Log Interval	SURFACE
Open Hole Size	12.25"
Type Fluid	MUD
Density / Viscosity	NA/NA
Max. Recorded Temp.	NA
Estimated Cement Top	SURFACE
Time Well Ready	07:00 5/15/2011
Time Logger on Bottom	07:00 5/15/2011
Equipment Number	MVGS-1
Location	Ft. Myers
Recorded By	S.Miller/C.Miller
Witnessed By	D.Daigle (ASRus) K.Greuel (LCC)

Borehole Record

Run Number	Bit	From	To
ONE	12.25"	SURFACE	255'

Tubing Record

Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String				
Production String				
Liner				LTP1.db

Invoice No. 2011059	P.O. #:	8fld/las/pdf	* FINAL PRINT *

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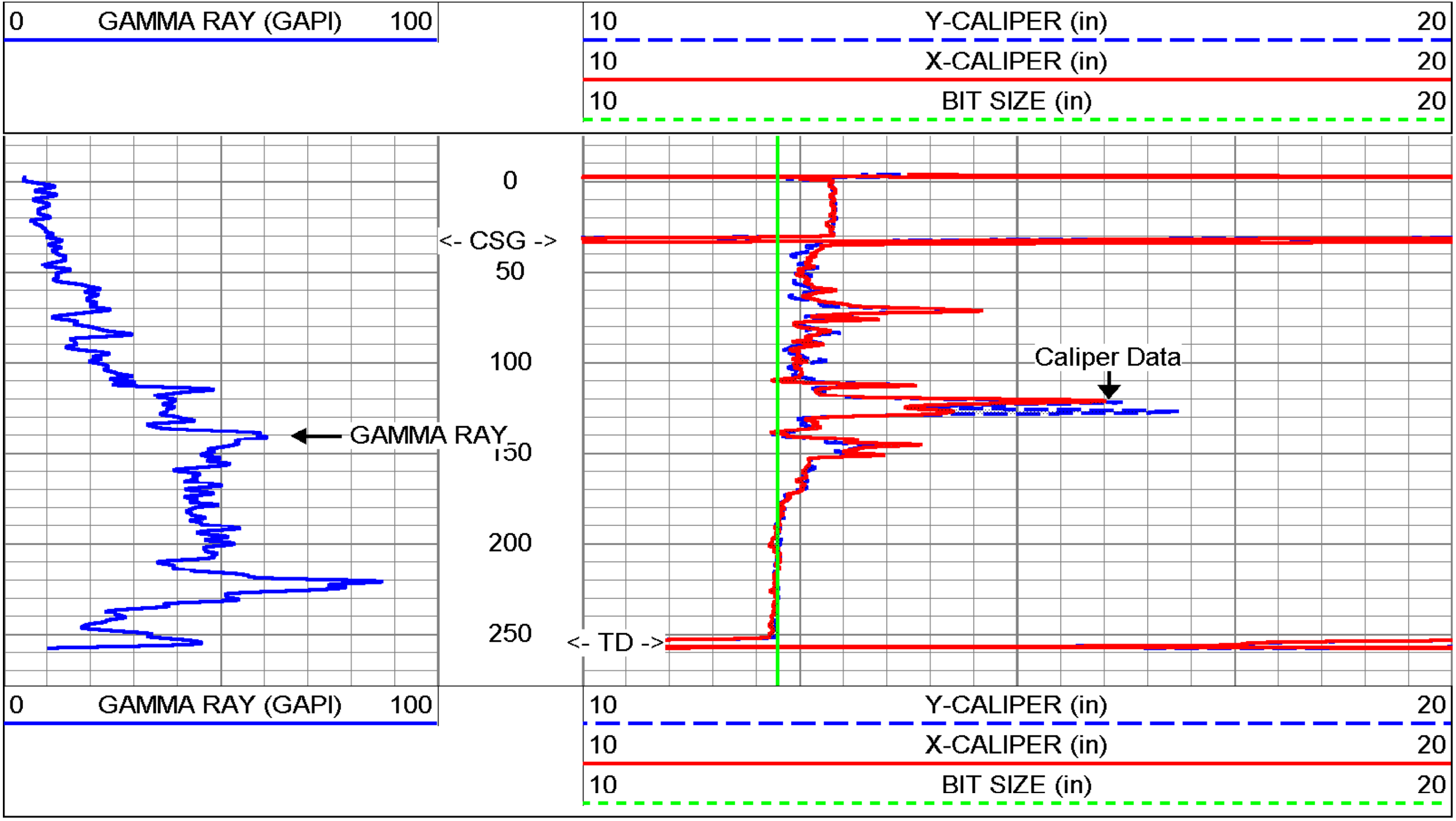
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

Comments

MAXIMUM Caliper Arm Extensions: 33"

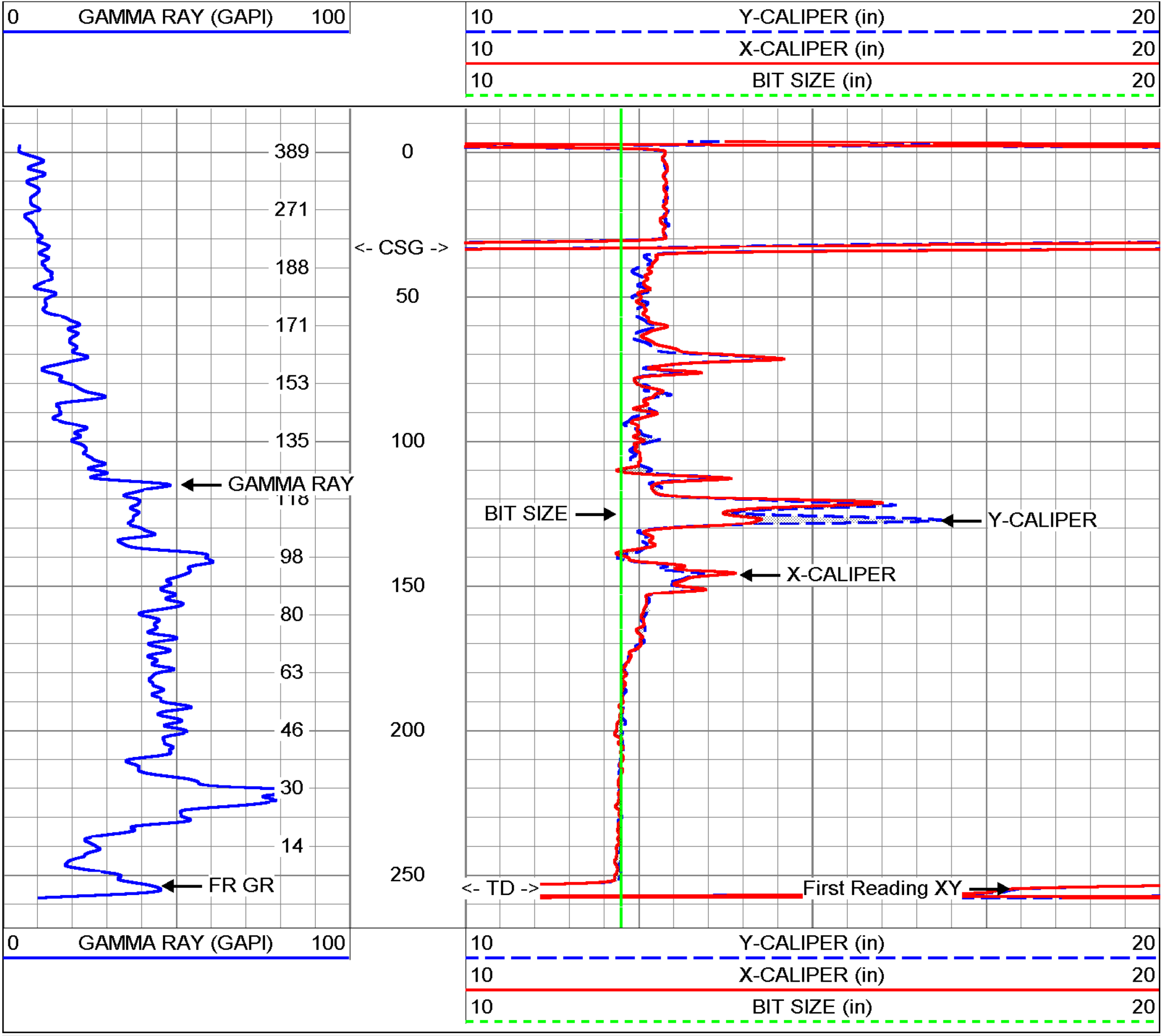
MV Geophysical — MAIN PASS

Database File: ltp1.db
Dataset Pathname: MAIN
Presentation Format: XY1020-1
Dataset Creation: Sun May 15 08:05:25 2011
Charted by: Depth in Feet scaled 1:1200



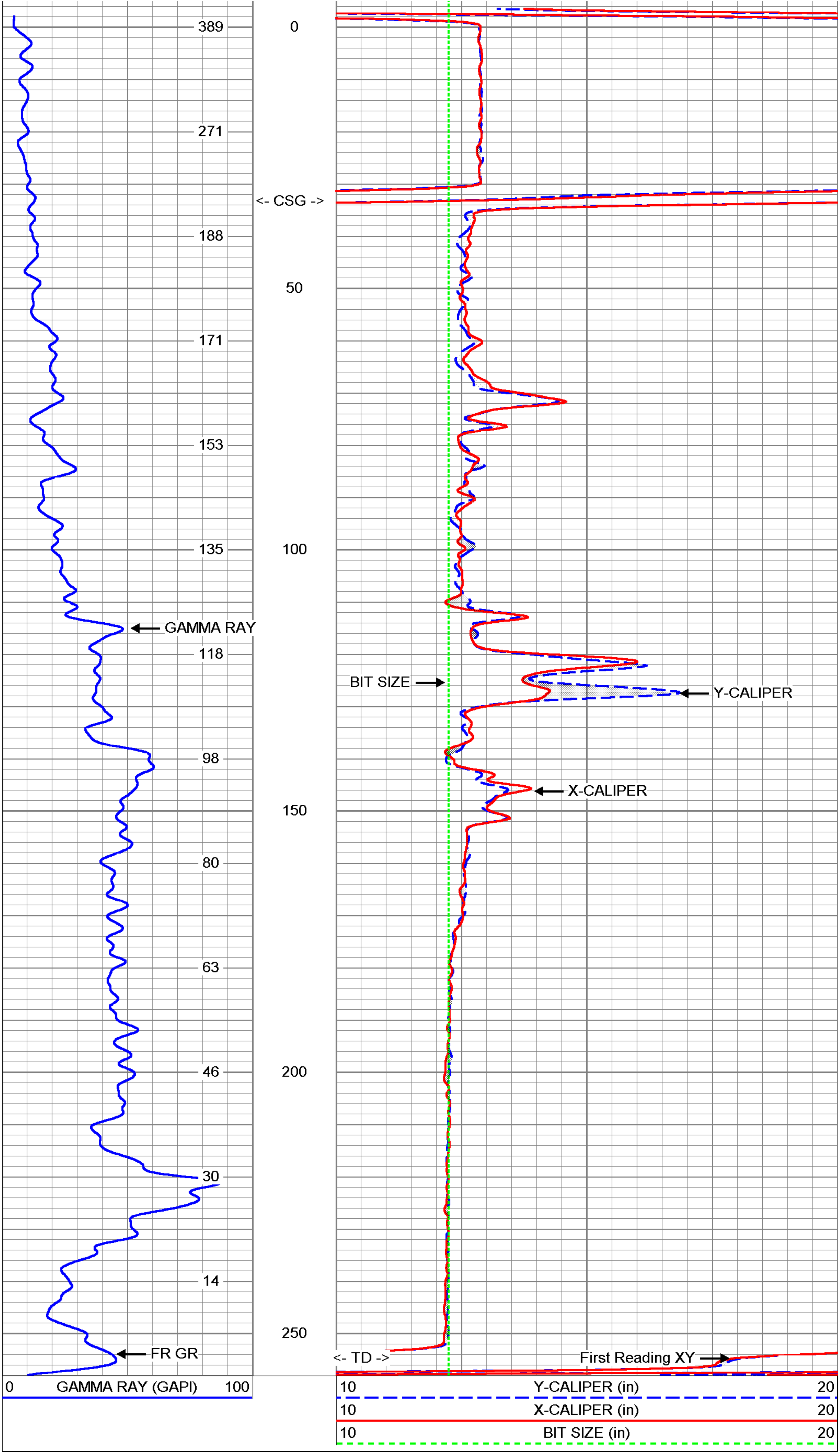
MV Geophysical — MAIN PASS

Database File: ltp1.db
Dataset Pathname: MAIN
Presentation Format: XY1020-5
Dataset Creation: Sun May 15 08:05:25 2011
Charted by: Depth in Feet scaled 1:600



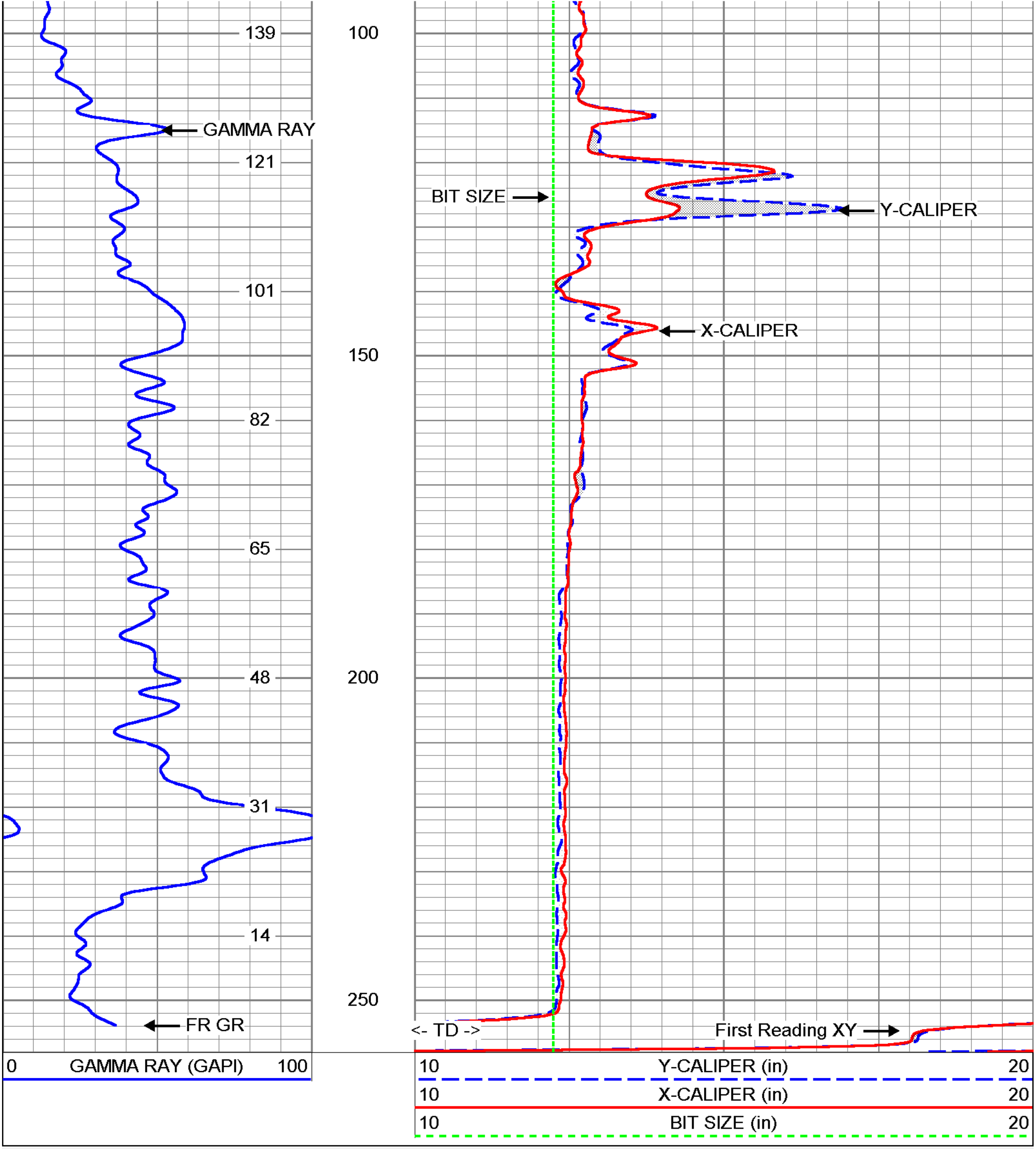
MV Geophysical — MAIN PASS

Database File: ltp1.db
Dataset Pathname: MAIN
Presentation Format: XY1020-5
Dataset Creation: Sun May 15 08:05:25 2011
Charted by: Depth in Feet scaled 1:240



MV Geophysical — REPEAT SECTION

Database File: ltp1.db
Dataset Pathname: REPEAT
Presentation Format: XY1020-5
Dataset Creation: Sun May 15 08:15:35 2011
Charted by: Depth in Feet scaled 1:240

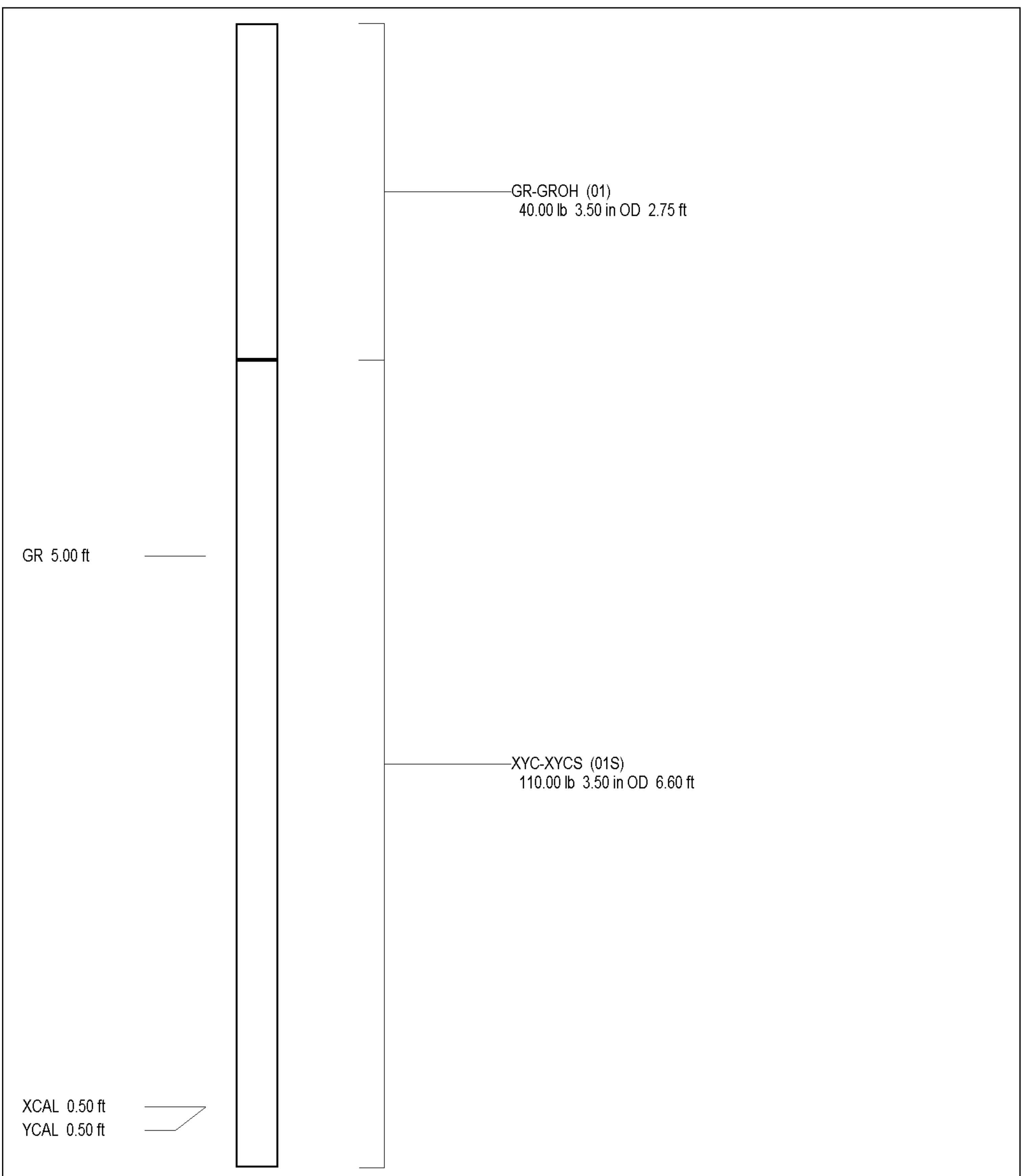


XY Caliper Calibration Report

Serial Number:	01S		
Tool Model:	XYCS		
Performed:	Sun May 15 07:40:04 2011		
Small Ring:	12.25	in	
Large Ring:	33	in	
	X Caliper	Y Caliper	
Reading with Small Ring:	733.5	717.1	cps
Reading with Large Ring:	1133.3	1074.5	cps
Gain:	0.0519009	0.0580582	
Offset:	-25.8193	-29.3835	

Gamma Ray Calibration Report

Serial Number:	01	
Tool Model:	GROH	
Performed:	Sun May 15 07:18:33 2011	
Calibrator Value:	120	GAPI
Background Reading:	13.488	cps
Calibrator Reading:	130.515	cps
Sensitivity:	1.254	GAPI/cps



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

MV Geophysical

X-Y CALIPER GAMMA RAY LOG

Company	Layne Christensen Company
Well	Turkey Point EW-1
Field	Florida City
County	Miami-Dade
State/Prv	Florida

Company	Layne Christensen Company		
Well	Turkey Point EW-1		
Field	Florida City		
County	Miami-Dade	State/Prv	Florida
Location	FPL Turkey Point Power Plant LAT: 25 25' 19" N LONG: 80 20' 08" W McNabb Hydrogeologic, Inc.	Other Services	NONE
Permanent Datum	Pad Level	Elevation	
Log Measured From	Pad Level	Elevation	K.B. D.F. G.L.
Drilling Measured From	Pad Level		

Date	26-MAY-2011		
Run Number	TWO		
Depth Driller	259'		
Depth Logger	259'		
Bottom Logged Interval	257'		
Top Log Interval	SURFACE		
Open Hole Size	62.5"		
Type Fluid	MUD		
Density / Viscosity	NA/NA		
Max. Recorded Temp.	NA		
Estimated Cement Top	SURFACE		
Time Well Ready	05:50 5/26/2011		
Time Logger on Bottom	05:45 5/26/2011		
Equipment Number	MVGS-1		
Location	Ft. Myers		
Recorded By	S.Miller/C.Miller		
Witnessed By	S.Durall (MHC)	K.Greuel (LCC)	D.Daigle (ASRus)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'				
TWO	62.5"	SURFACE	259'				

	Size	Wgt/Ft	Top	Bottom
Casing Record				
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String				
Production String				
Liner				LTP1.db
Invoice No.	2011066	P.O. #:	8fld/las/pdf	* FINAL PRINT *

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Comments

MAXIMUM Caliper Arm Extensions: 72"

FUTURE CASING SIZE: 54"

BOREHOLE VOLUMES IN BARRELS

MV Geophysical

MAIN PASS

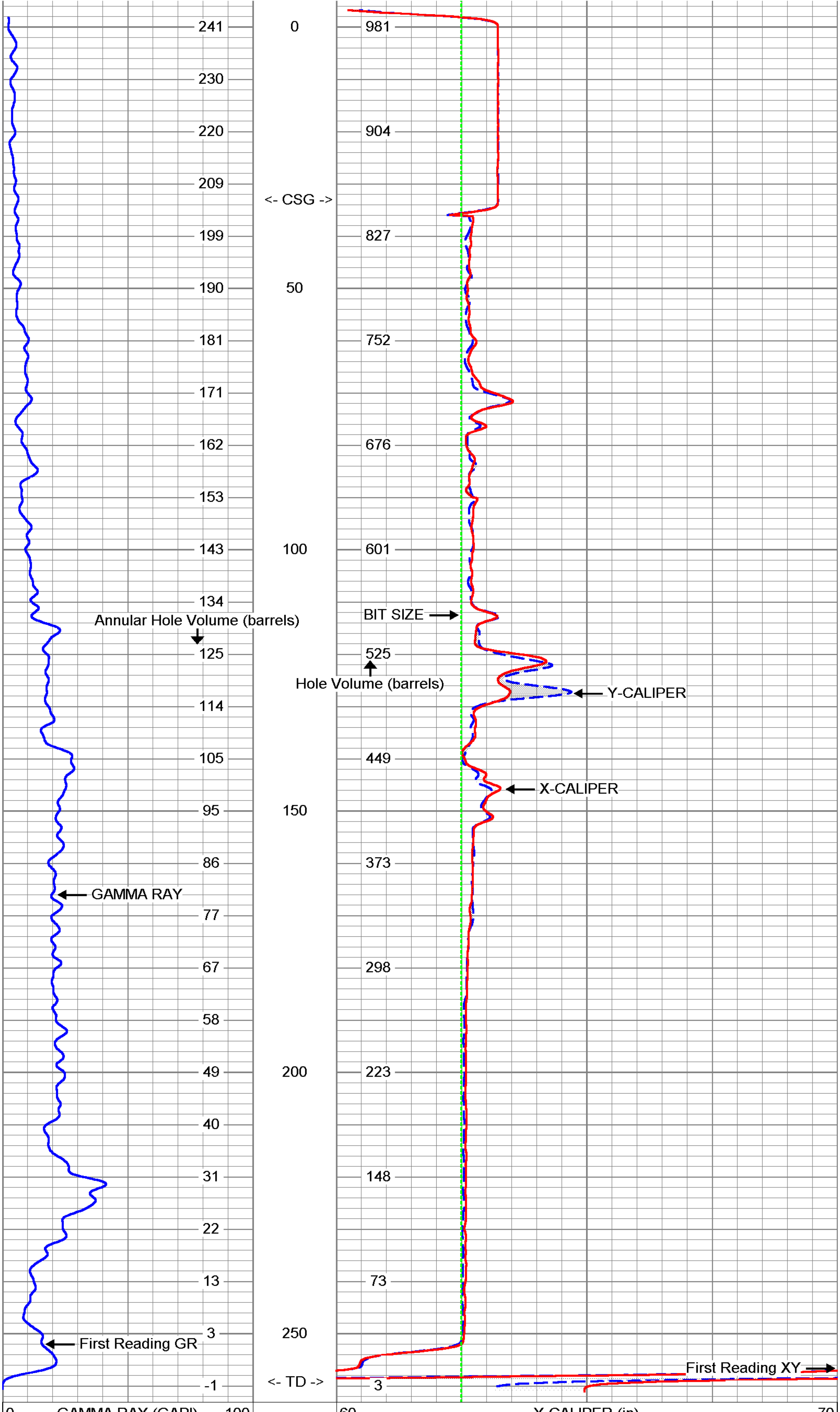
Database File:	ltp1.db
Dataset Pathname:	run2/main
Presentation Format:	XY6070B5
Dataset Creation:	Wed May 25 07:39:05 2011
Charted by:	Depth in Feet scaled 1:240

0 GAMMA RAY (GAPI) 100

60 Y-CALIPER (in) 70

60 X-CALIPER (in) 70

60 BIT SIZE (in) 70



0 GAMMA RAY (GAPI) 100

60 Y-CALIPER (in) 70

60 X-CALIPER (in) 70

60 BIT SIZE (in) 70

MV Geophysical

REPEAT SECTION

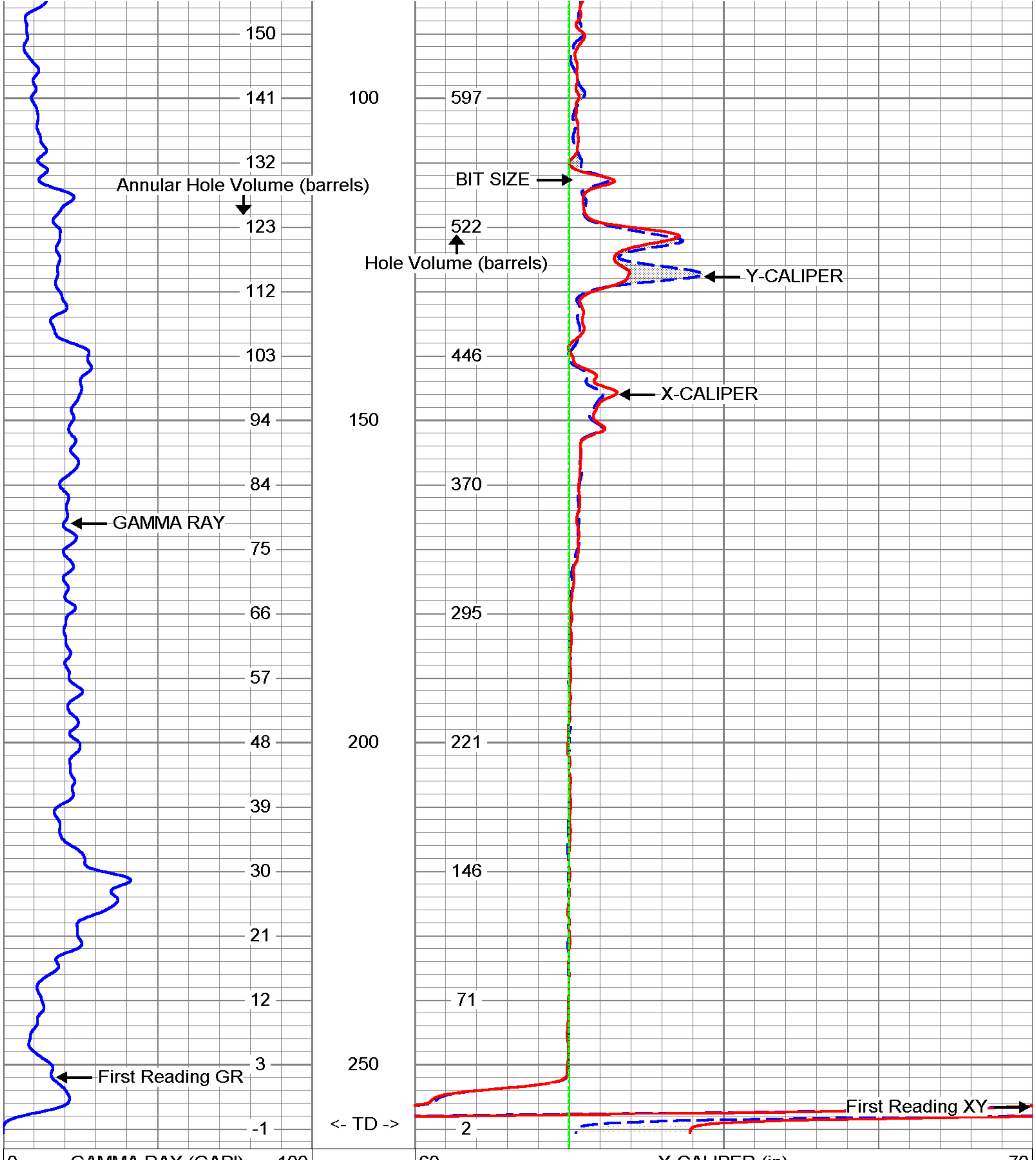
Database File:	ltp1.db
Dataset Pathname:	run2/repeat
Presentation Format:	XY6070B5
Dataset Creation:	Wed May 25 07:44:37 2011
Charted by:	Depth in Feet scaled 1:240

0 GAMMA RAY (GAPI) 100

60 Y-CALIPER (in) 70

60 X-CALIPER (in) 70

60 BIT SIZE (in) 70



0 GAMMA RAY (GAPI) 100

60 Y-CALIPER (in) 70

60 X-CALIPER (in) 70

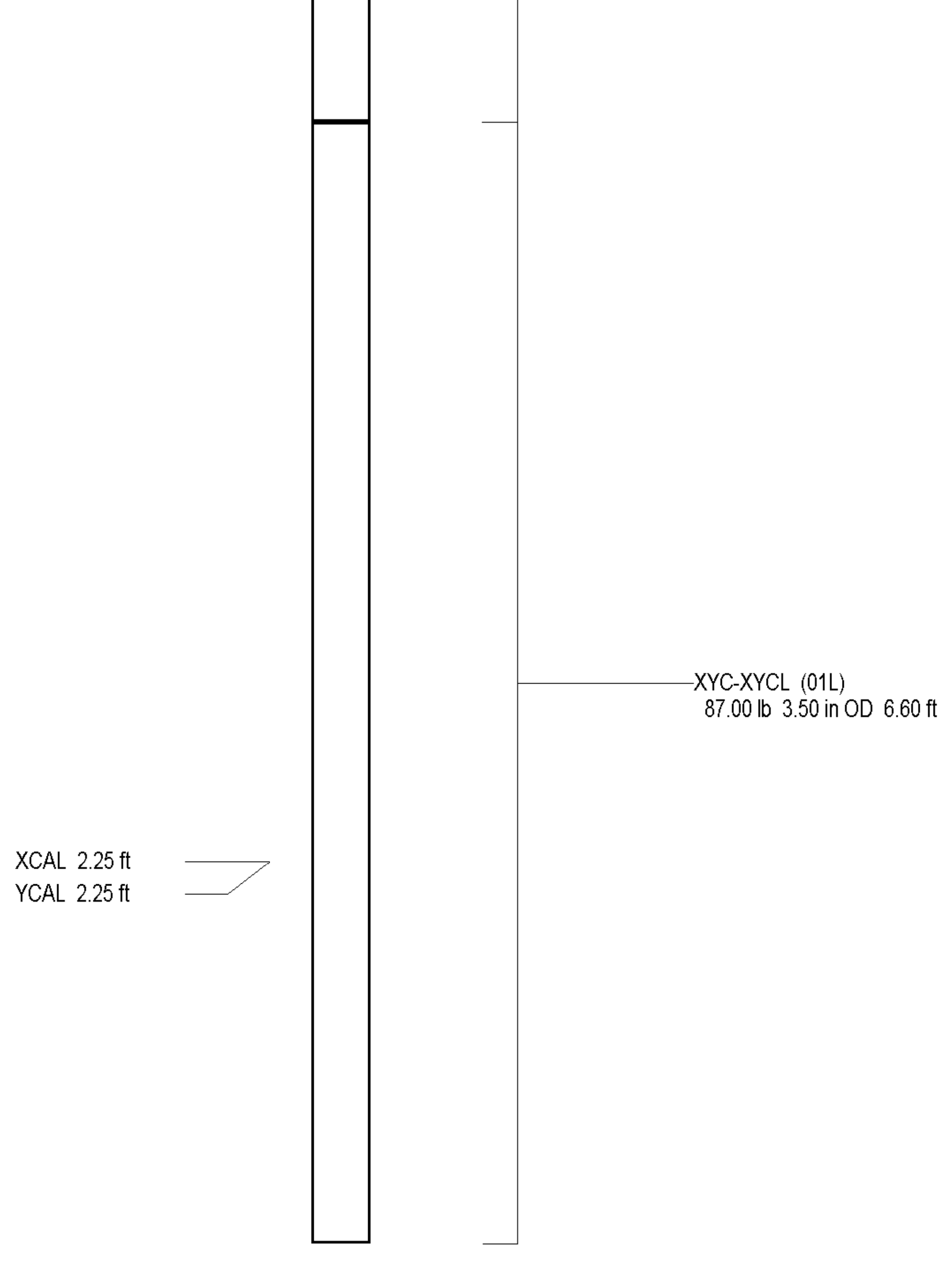
60 BIT SIZE (in) 70

XY Caliper Calibration Report

Serial Number:	01L		
Tool Model:	XYCL		
Performed:	Wed May 25 06:04:21 2011		
Small Ring:	66.25	in	
Large Ring:	72	in	
	X Caliper	Y Caliper	
Reading with Small Ring:	1089	988	cps
Reading with Large Ring:	1133.6	1073.7	cps
Gain:	0.128924	0.1021	
Offset:	-74.1481	-37.6252	

Gamma Ray Calibration Report

Serial Number:	01	
Tool Model:	GROH	
Performed:	Wed May 25 05:53:44 2011	
Calibrator Value:	120	GAPI
Background Reading:	13.485	cps
Calibrator Reading:	130.515	cps
Sensitivity:	1.02538	GAPI/cps



Dataset:	run2/pass2
Total Length:	9.35 ft
Total Weight:	127.00 lb
O.D.	3.50 in

MV Geophysical

X-Y CALIPER GAMMA RAY LOG

Company	Layne Christensen Company
Well	Turkey Point EW-1
Field	Florida City
County	Miami-Dade
State/Prv	Florida

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade State/Prv Florida

Location
FPL Turkey Point Power Plant
LAT: 25 25' 19" N LONG: 80 20' 08" W
McNabb Hydrogeologic, Inc.

Other Services
XY/GR
DIL/SP

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

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

Date	5-JUN-2011	
Run Number	THREE-B	
Depth Driller	1090'	
Depth Logger	1088'	
Bottom Logged Interval	1088'	
Top Log Interval	SURFACE	
Open Hole Size	12.25"	
Type Fluid	MUD	
Density / Viscosity	NA/NA	
Max. Recorded Temp.	NA	
Estimated Cement Top	SURFACE	
Time Well Ready	21:00 6/5/2011	
Time Logger on Bottom	21:15 6/5/2011	
Equipment Number	MVGS-1	
Location	Ft. Myers	
Recorded By	S.Miller/C.Miller	
Witnessed By	M.McNeal (MHC)	K.Greuel (LCC)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'				
TWO	62.5"	SURFACE	259'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String	54"	0.375" WT	SURFACE	255'
Production String				
Liner				

Invoice No.	2011090	P.O. #:	8fdlas/pdf	LTP1.db * FINAL PRINT *

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Comments

MAXIMUM Caliper Arm Extensions: 33"

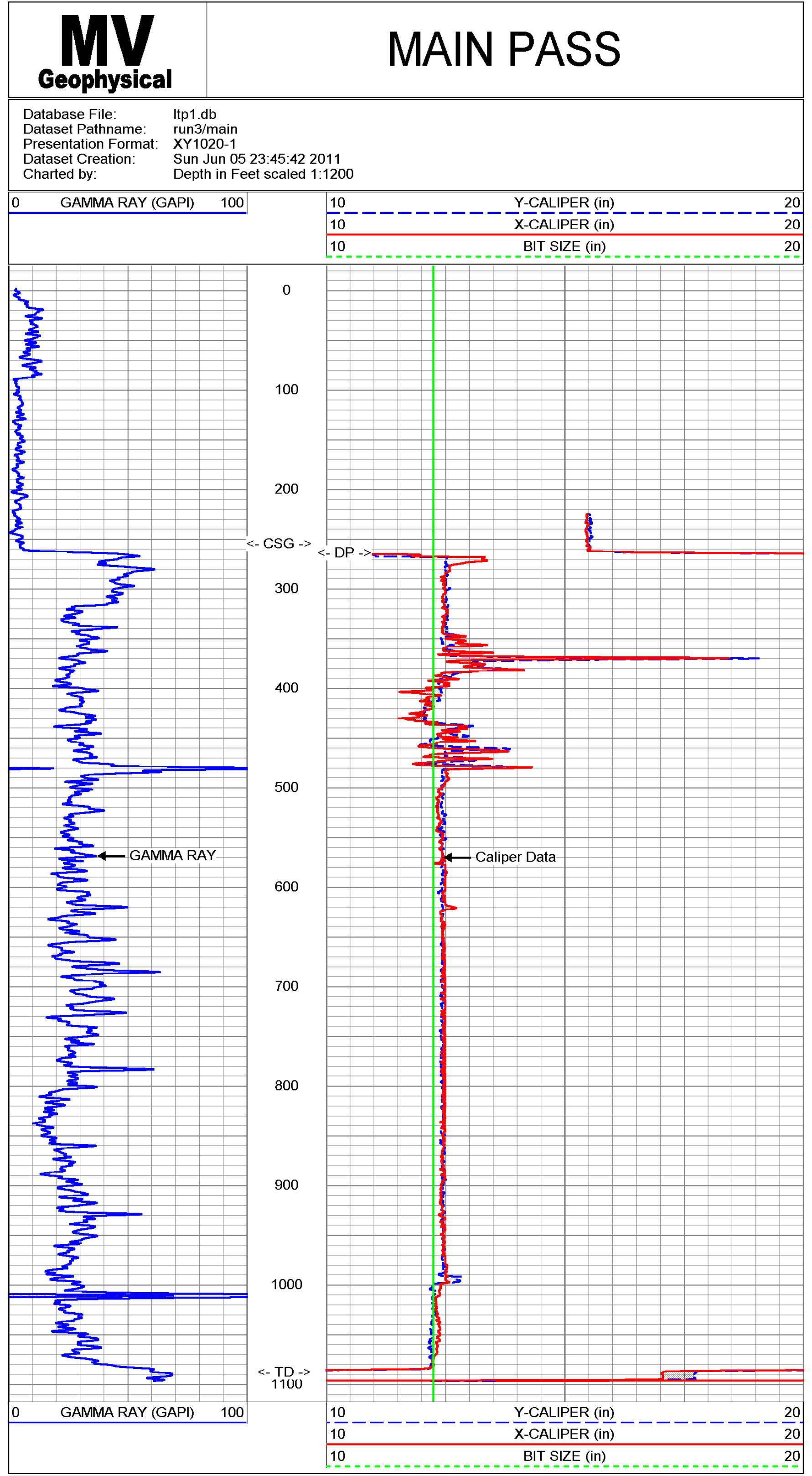
BOREHOLE VOLUMES IN CUBIC FEET

Drill Pipe set to 266'

MV Geophysical

MAIN PASS

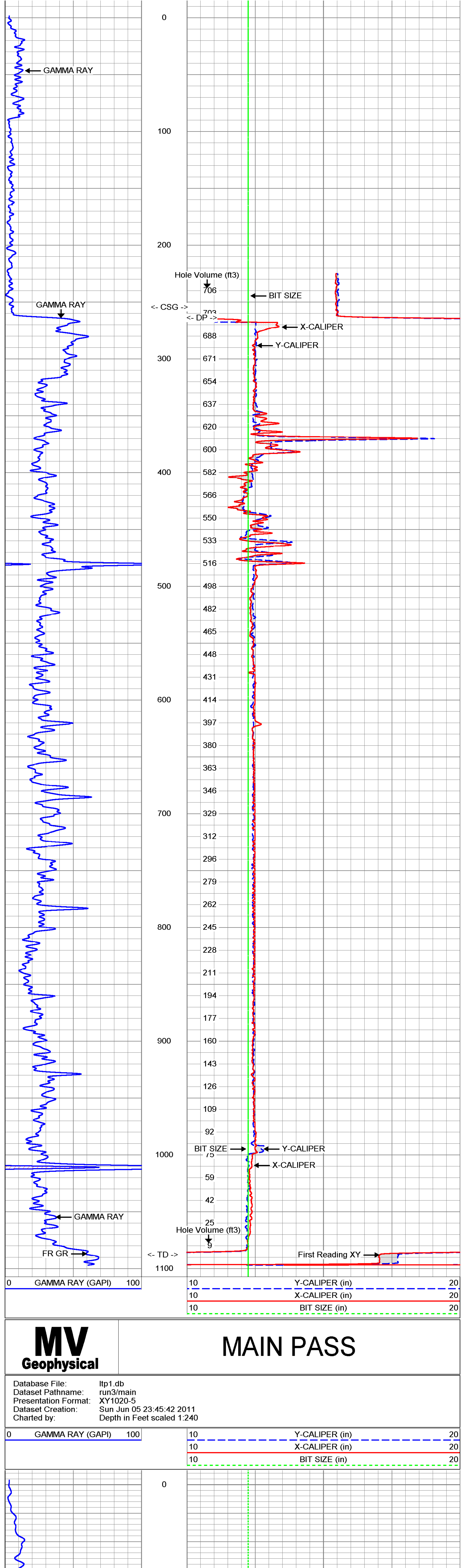
Database File: ltp1.db
Dataset Pathname: run3/main
Presentation Format: XY1020-1
Dataset Creation: Sun Jun 05 23:45:42 2011
Charted by: Depth in Feet scaled 1:1200



MV Geophysical

MAIN PASS

Database File: ltp1.db
Dataset Pathname: run3/main
Presentation Format: XY1020-5
Dataset Creation: Sun Jun 05 23:45:42 2011
Charted by: Depth in Feet scaled 1:600



MV Geophysical

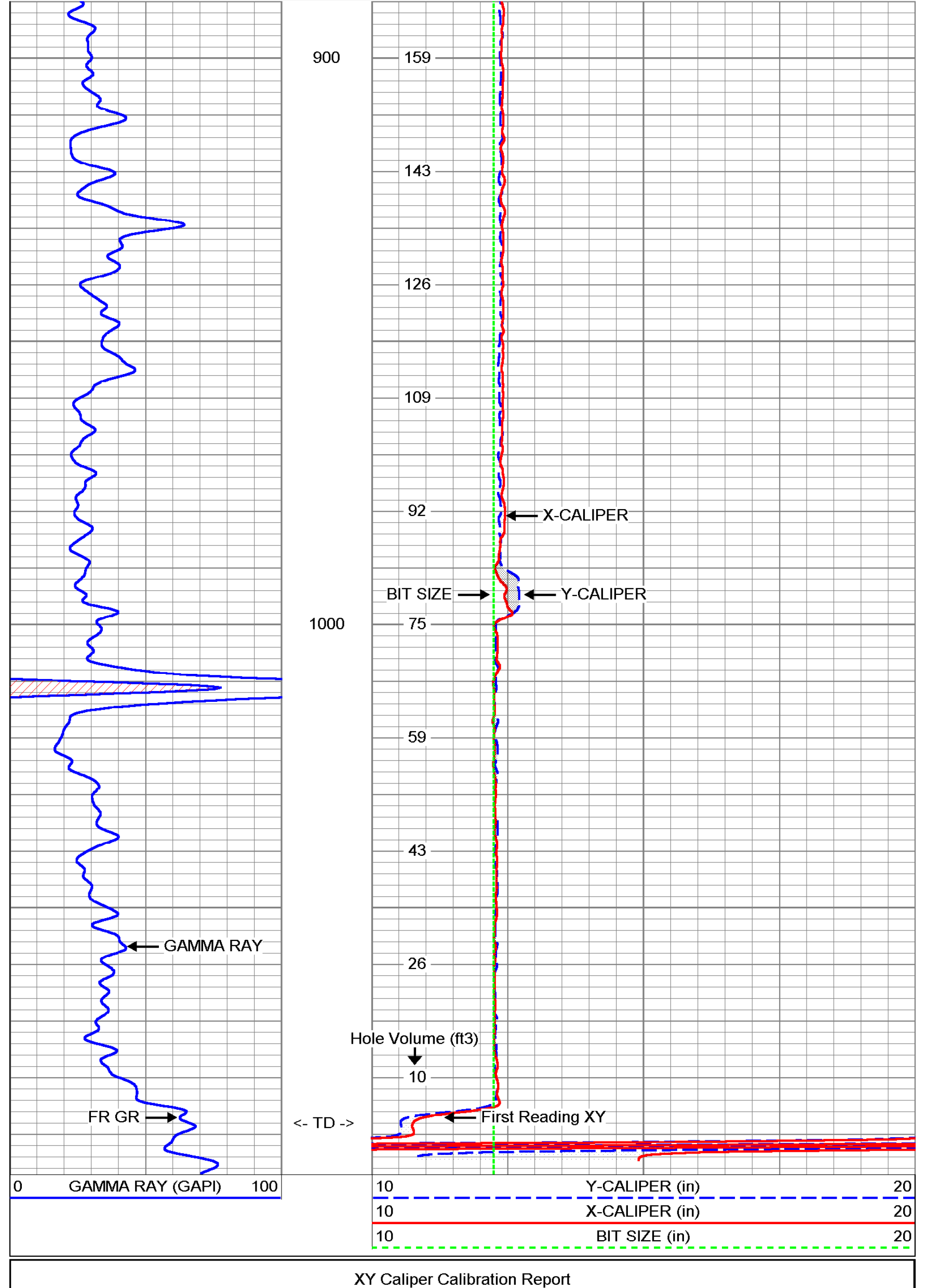
MAIN PASS

Database File: ltp1.db
Dataset Pathname: run3/main
Presentation Format: XY1020-5
Dataset Creation: Sun Jun 05 23:45:42 2011
Charted by: Depth in Feet scaled 1:240

MV Geophysical

REPEAT SECTION

Database File: ltp1.db
Dataset Pathname: run3/REPEAT
Presentation Format: XY1020-5
Dataset Creation: Sun Jun 05 23:55:07 2011
Charted by: Depth in Feet scaled 1:240

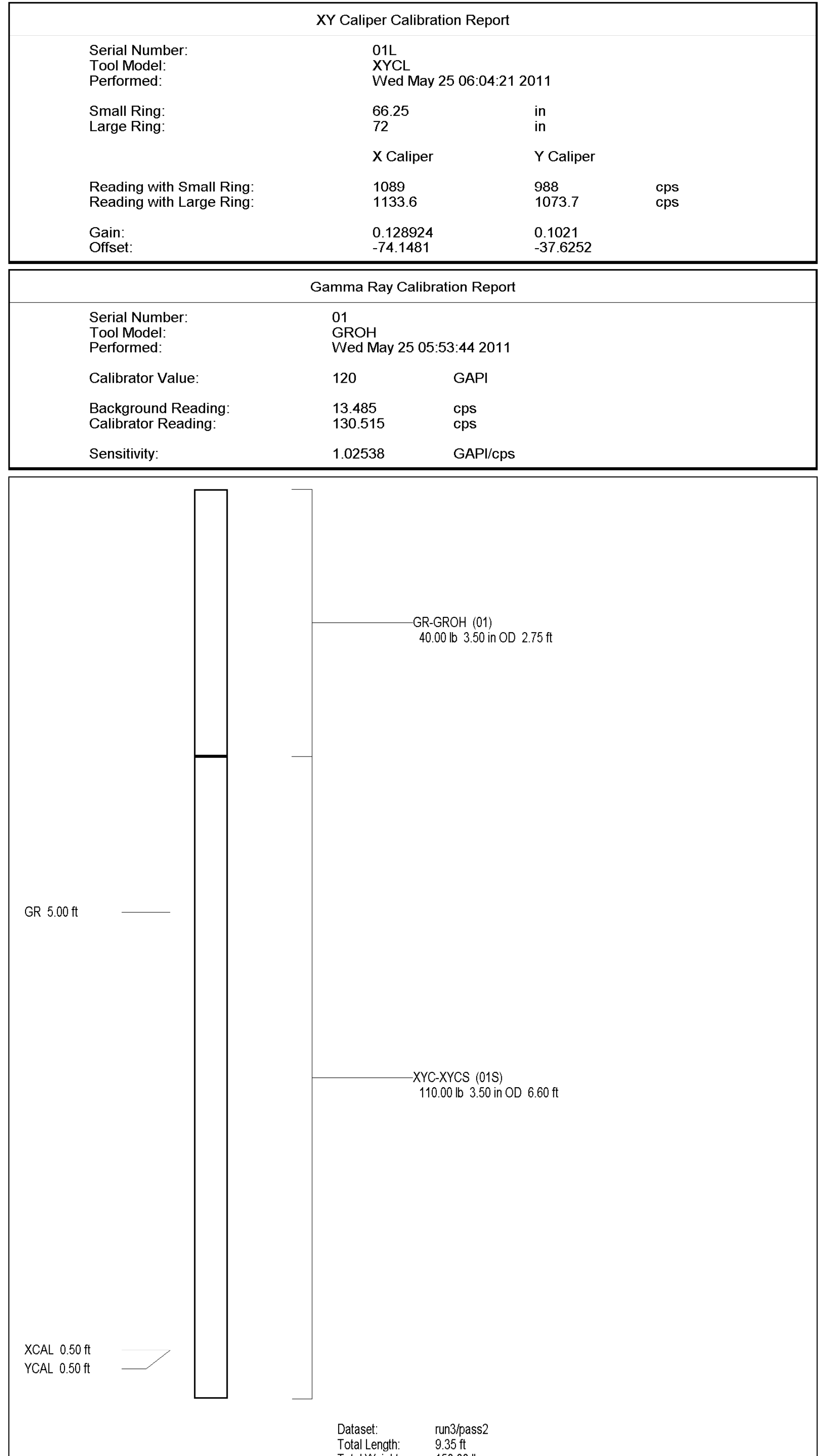


XY Caliper Calibration Report

Serial Number:	01L		
Tool Model:	XYCL		
Performed:	Wed May 25 06:04:21 2011		
Small Ring:	66.25	in	
Large Ring:	72	in	
	X Caliper	Y Caliper	
Reading with Small Ring:	1089	988	cps
Reading with Large Ring:	1133.6	1073.7	cps
Gain:	0.128924	0.1021	
Offset:	-74.1481	-37.6252	

Gamma Ray Calibration Report

Serial Number:	01	
Tool Model:	GROH	
Performed:	Wed May 25 05:53:44 2011	
Calibrator Value:	120	GAPI
Background Reading:	13.485	cps
Calibrator Reading:	130.515	cps
Sensitivity:	1.02538	GAPI/cps



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

MV Geophysical

DUAL INDUCTION LL3 / SP LOG

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade
State/Prv Florida

Company	Layne Christensen Company
Well	Turkey Point EW-1
Field	Florida City
County	Miami-Dade
State/Prv	Florida
Location	FPL Turkey Point Power Plant LAT: 25 25' 19" N LONG: 80 20' 08" W McNabb Hydrogeologic, Inc.
Other Services	XY/GR DIL/SP
Permanent Datum	Pad Level
Elevation	
Log Measured From	Pad Level
Drilling Measured From	Pad Level
Elevation	K.B. D.F. G.L.

Date	5-JUN-2011	
Run Number	THREE-B	
Depth Driller	1090'	
Depth Logger	1088'	
Bottom Logged Interval	1086'	
Top Log Interval	266'	
Open Hole Size	12.25"	
Type Fluid	MUD	
Density / Viscosity	NA/NA	
Max. Recorded Temp.	NA	
Estimated Cement Top	SURFACE	
Time Well Ready	21:00 6/5/2011	
Time Logger on Bottom	23:00 6/5/2011	
Equipment Number	MVGS-1	
Location	Ft. Myers	
Recorded By	S.Miller/C.Miller	
Witnessed By	M.McNeal (ASRus)	K.Greuel (LCC)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'				
TWO	62.5"	SURFACE	259'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String	54"	0.375" WT	SURFACE	255'
Production String				
Liner				LTP1.db
Invoice No.	2011090	P.O. #:	8fdl/las/pdf	* FINAL PRINT *

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Comments

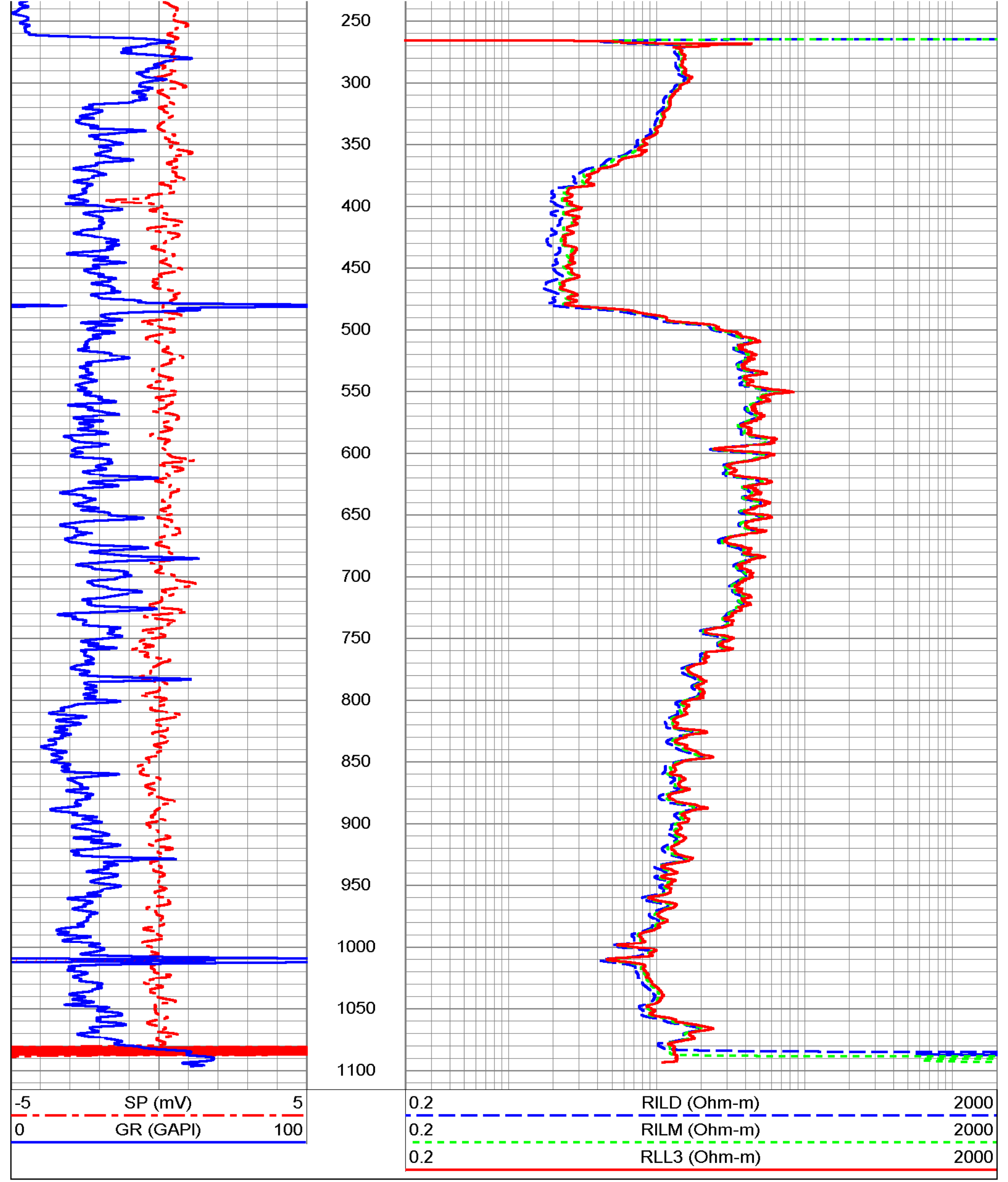
Rm=8.534 ohm-m @ 85.9 degF

Drill Pipe set to 266'

MV Geophysical

MAIN PASS

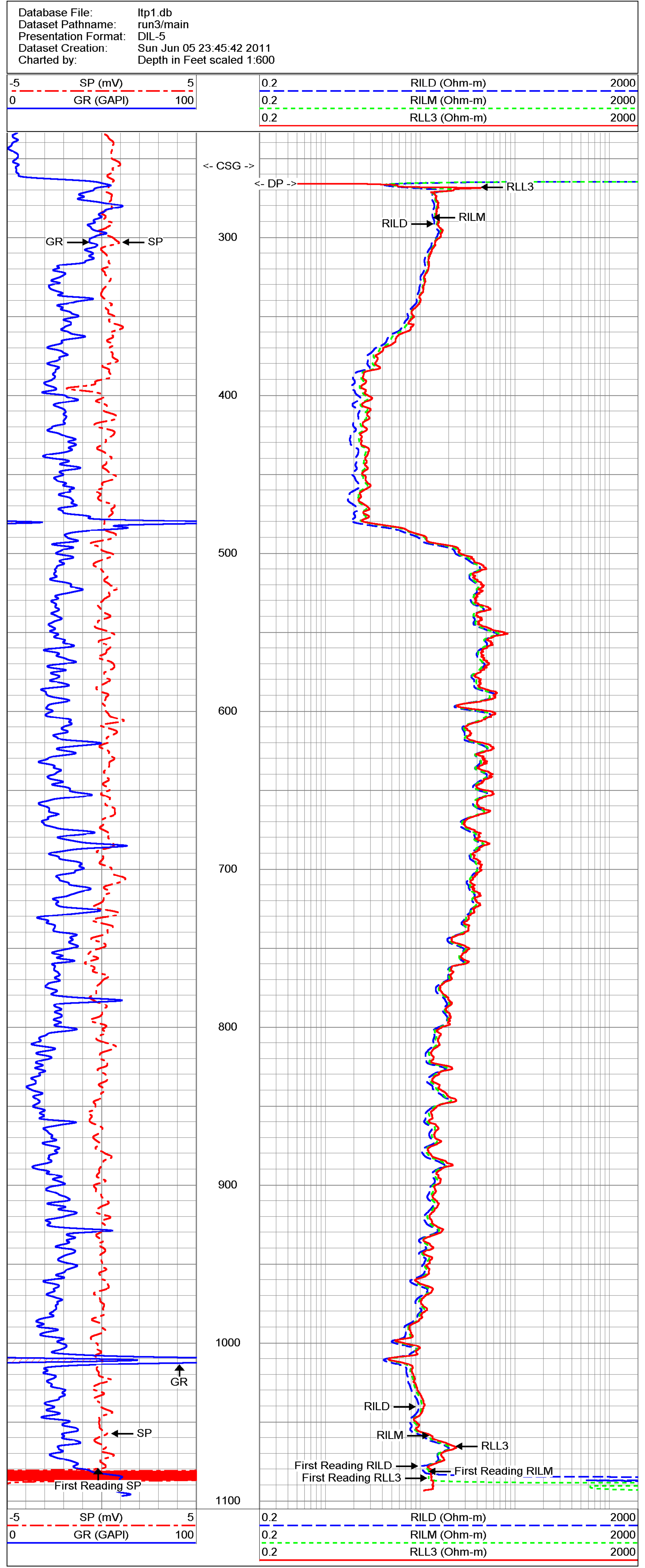
Database File: ltp1.db
Dataset Pathname: run3/main
Presentation Format: DIL-1
Dataset Creation: Sun Jun 05 23:45:42 2011
Charted by: Depth in Feet scaled 1:1200



MV Geophysical

MAIN PASS

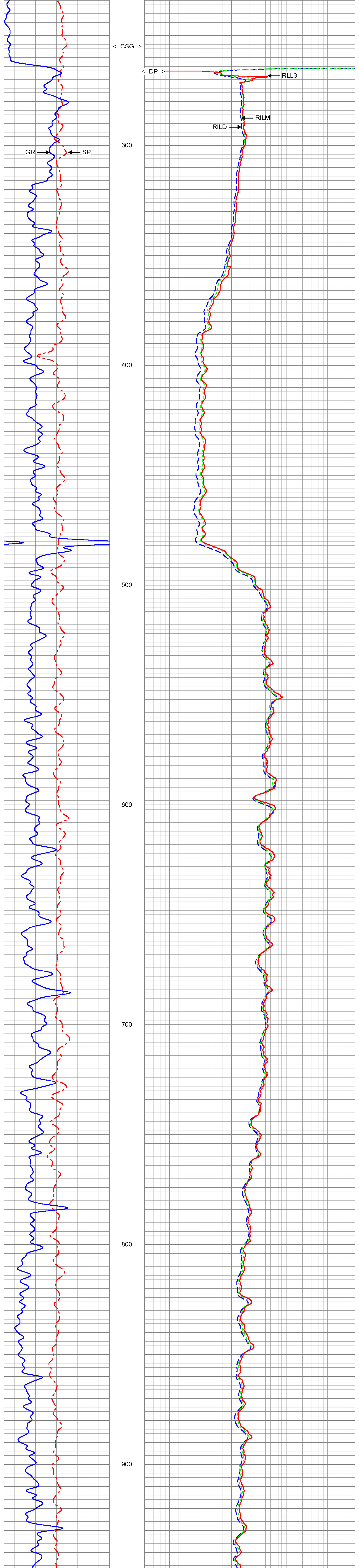
Database File: ltp1.db
Dataset Pathname: run3/main
Presentation Format: DIL-5
Dataset Creation: Sun Jun 05 23:45:42 2011
Charted by: Depth in Feet scaled 1:600



MV Geophysical

MAIN PASS

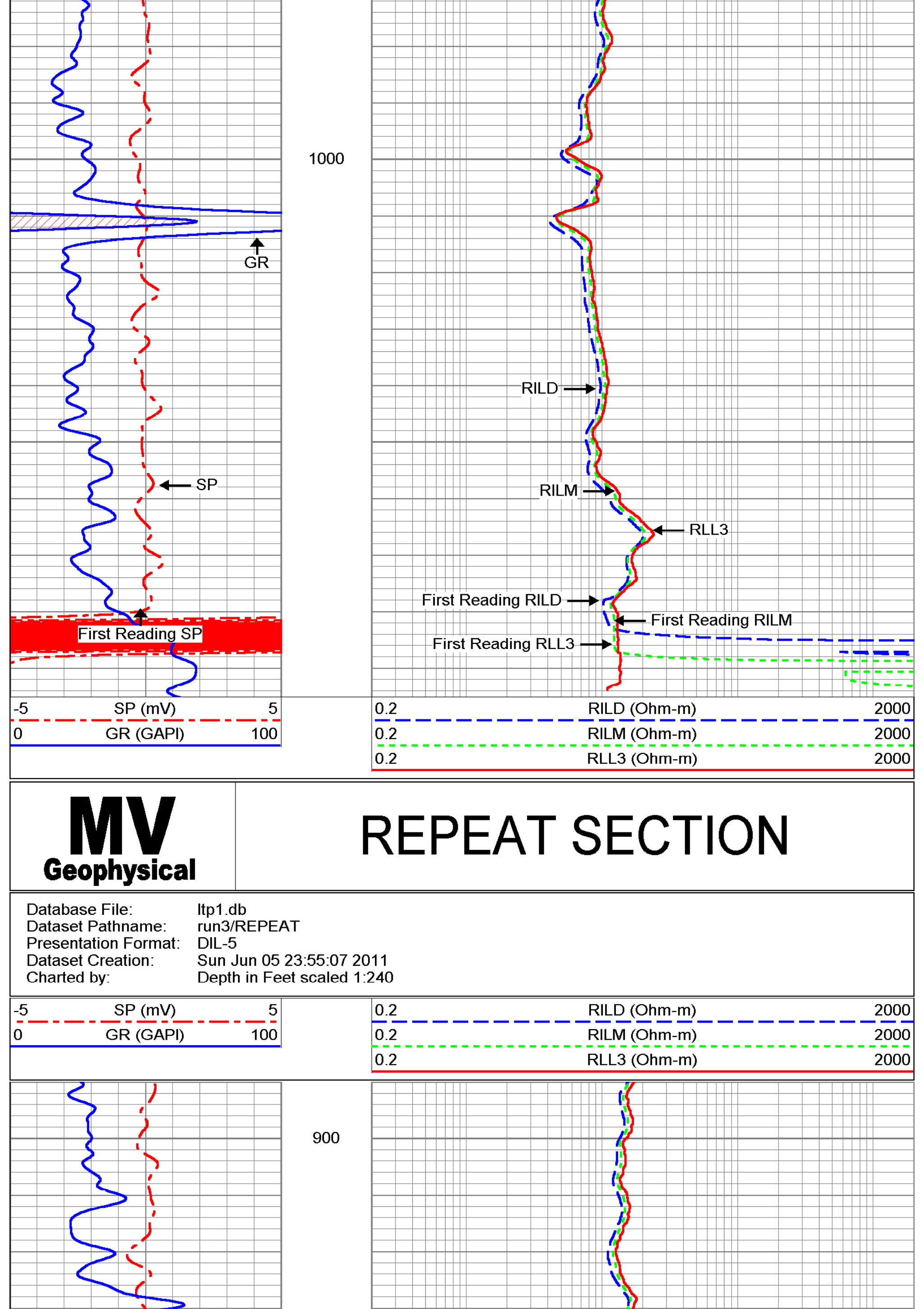
Database File: ltp1.db
Dataset Pathname: run3/main
Presentation Format: DIL-5
Dataset Creation: Sun Jun 05 23:45:42 2011
Charted by: Depth in Feet scaled 1:240



MV Geophysical

REPEAT SECTION

Database File: ltp1.db
Dataset Pathname: run3/REPEAT
Presentation Format: DIL-5
Dataset Creation: Sun Jun 05 23:55:07 2011
Charted by: Depth in Feet scaled 1:240



Dual Induction Calibration Report

Serial-Model: 5390-R
Surface Cal Performed: Wed Apr 21 11:17:23 2010
Downhole Cal Performed: Wed Apr 21 11:04:55 2010
After Survey Verification Performed: Wed Apr 21 11:04:55 2010

Surface Calibration

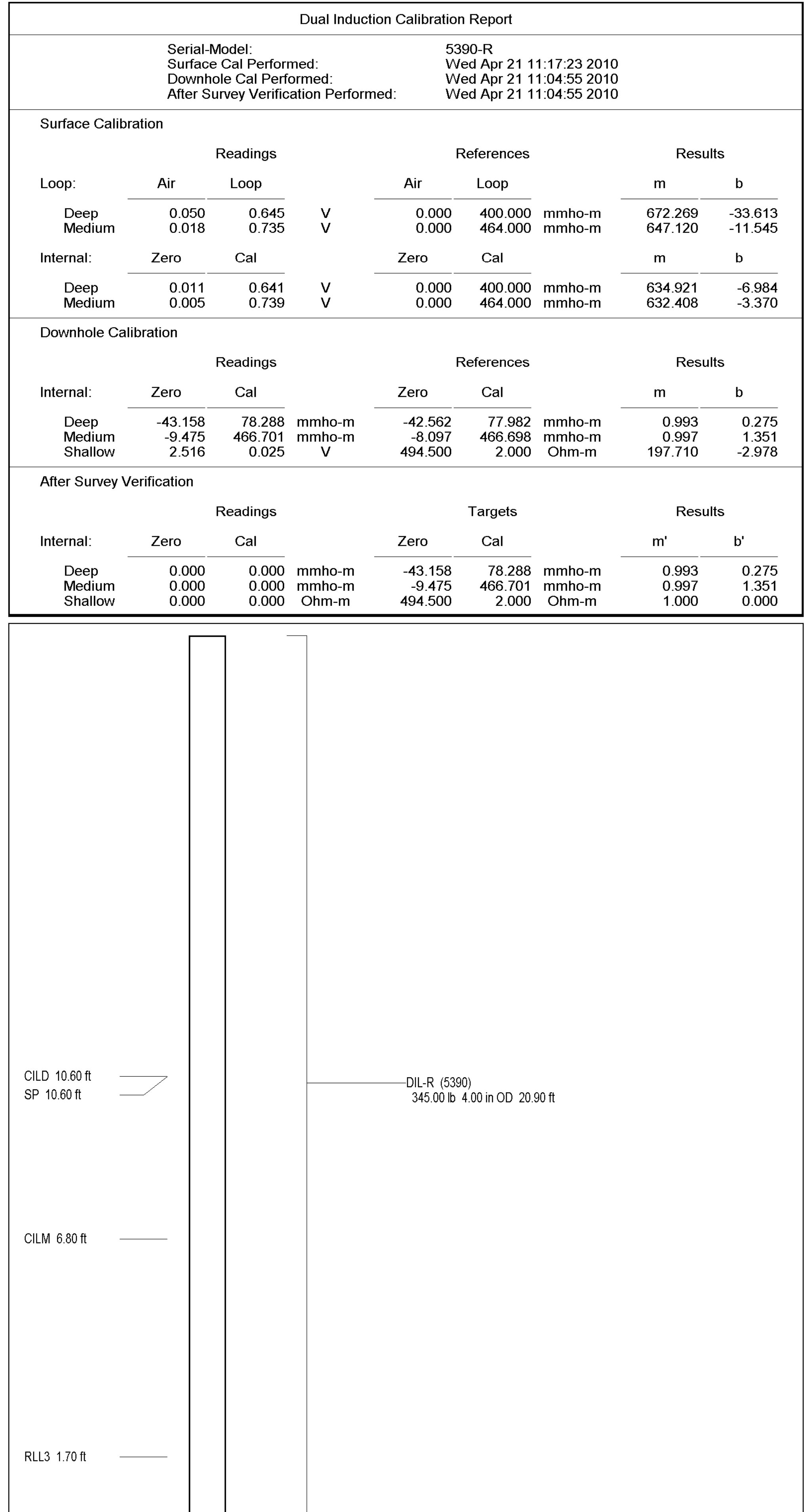
	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.050	0.645	V	0.000	400.000	mmho-m	672.269	-33.613
Medium	0.018	0.735	V	0.000	464.000	mmho-m	647.120	-11.545
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.641	V	0.000	400.000	mmho-m	634.921	-6.984
Medium	0.005	0.739	V	0.000	464.000	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	2.516	0.025	V	494.500	2.000	Ohm-m	197.710	-2.978

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



Dataset: run3/pass8
Total Length: 20.90 ft
Total Weight: 345.00 lb
O.D. 4.00 in

X-Y CALIPER GAMMA RAY LOG

MV Geophysical

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade
State/Prv Florida

Company	Layne Christensen Company
Well	Turkey Point EW-1
Field	Florida City
County	Miami-Dade
State/Prv	Florida
Location	FPL Turkey Point Power Plant LAT: 25 25' 19" N LONG: 80 20' 08" W McNabb Hydrogeologic, Inc.
Other Services	XY/GR
Permanent Datum	Pad Level
Elevation	
Log Measured From	Pad Level
Drilling Measured From	Pad Level
Elevation	K.B. D.F. G.L.

Date	21-JUN-2011
Run Number	FOUR
Depth Driller	1095'
Depth Logger	1095'
Bottom Logged Interval	1093'
Top Log Interval	SURFACE
Open Hole Size	52.5"
Type Fluid	MUD
Density / Viscosity	NA/NA
Max. Recorded Temp.	NA
Estimated Cement Top	SURFACE
Time Well Ready	06:00 6/21/2011
Time Logger on Bottom	06:00 6/21/2011
Equipment Number	MVGS-1
Location	Ft. Myers
Recorded By	S.Miller/C.Miller
Witnessed By	S.Durall (MHC) K.Greuel (LCC)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'				
TWO	62.5"	SURFACE	259'				
THREE	12.25"	255'	1090'				
FOUR	52.5"	255'	1095'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String	54"	0.375" WT	SURFACE	255'
Production String				
Liner				LTP1.db
Invoice No.	2011092	P.O. #:	8fdlas/pdf	* FINAL PRINT *

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Comments

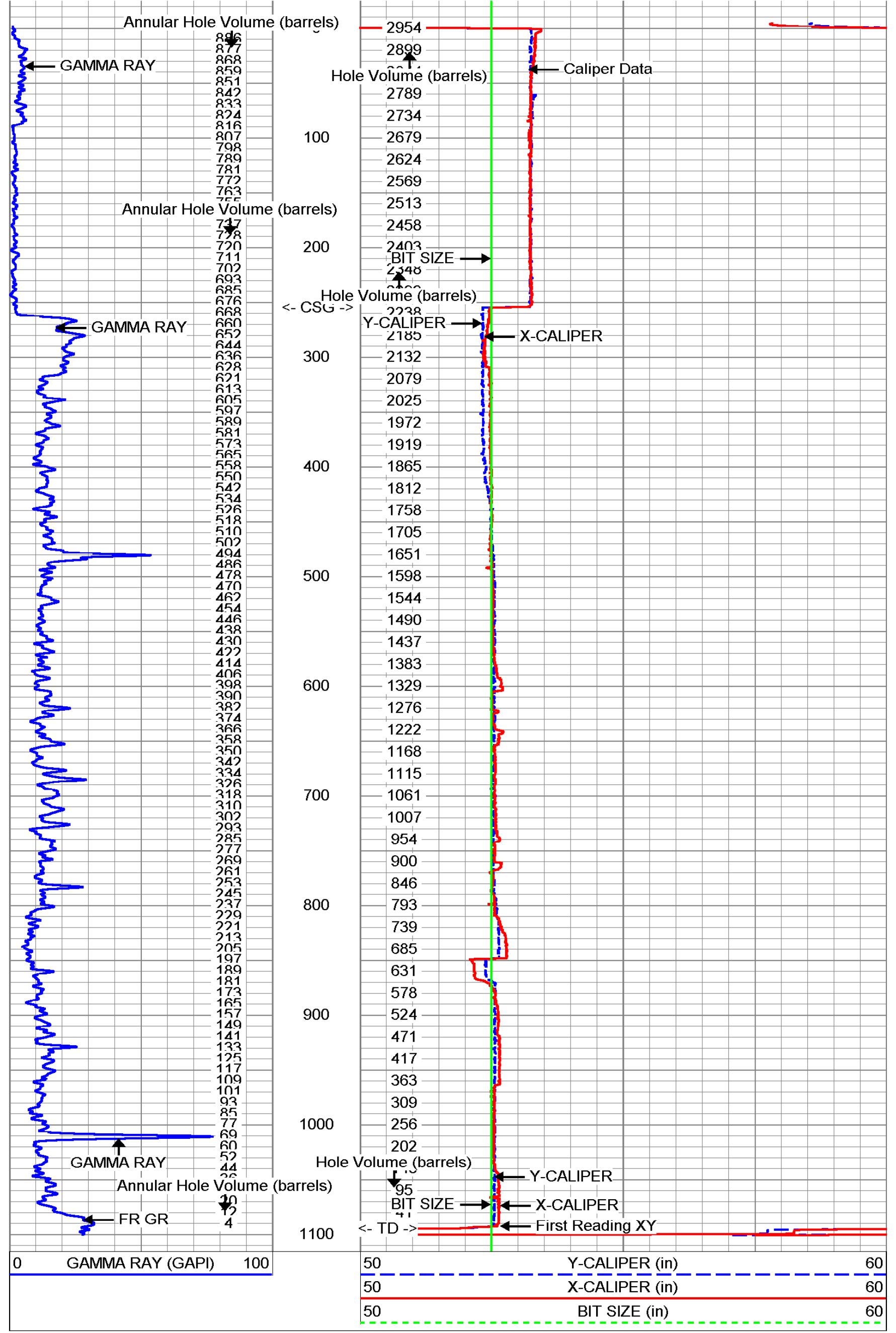
MAXIMUM Caliper Arm Extensions: 72"

BOREHOLE VOLUMES IN BARRELS

MAIN PASS

MV Geophysical

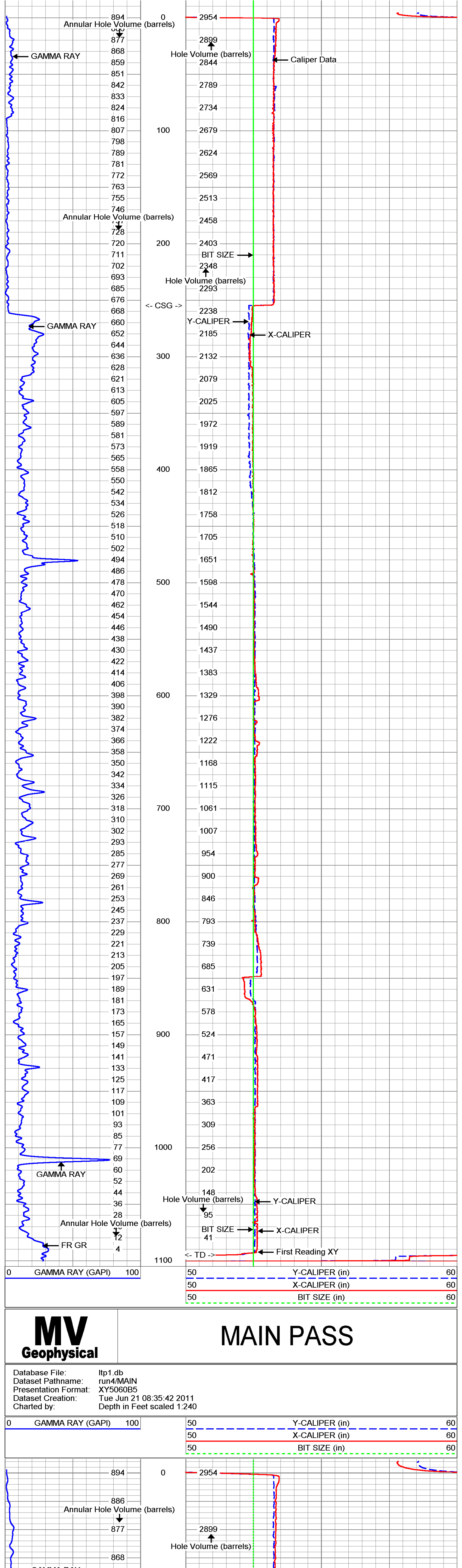
Database File: ltp1.db
Dataset Pathname: run4/MAIN
Presentation Format: XY5060B5
Dataset Creation: Tue Jun 21 08:35:42 2011
Charted by: Depth in Feet scaled 1:1200



MAIN PASS

MV Geophysical

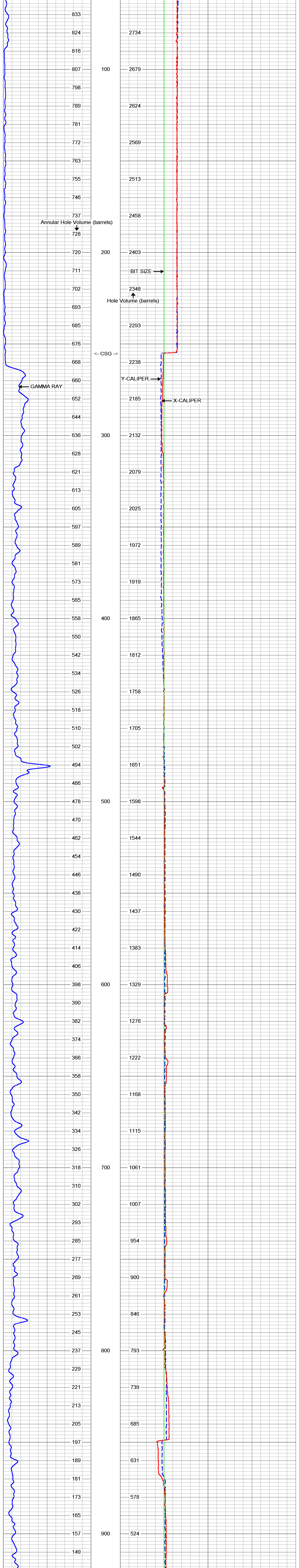
Database File: ltp1.db
Dataset Pathname: run4/MAIN
Presentation Format: XY5060B5
Dataset Creation: Tue Jun 21 08:35:42 2011
Charted by: Depth in Feet scaled 1:600



MAIN PASS

MV Geophysical

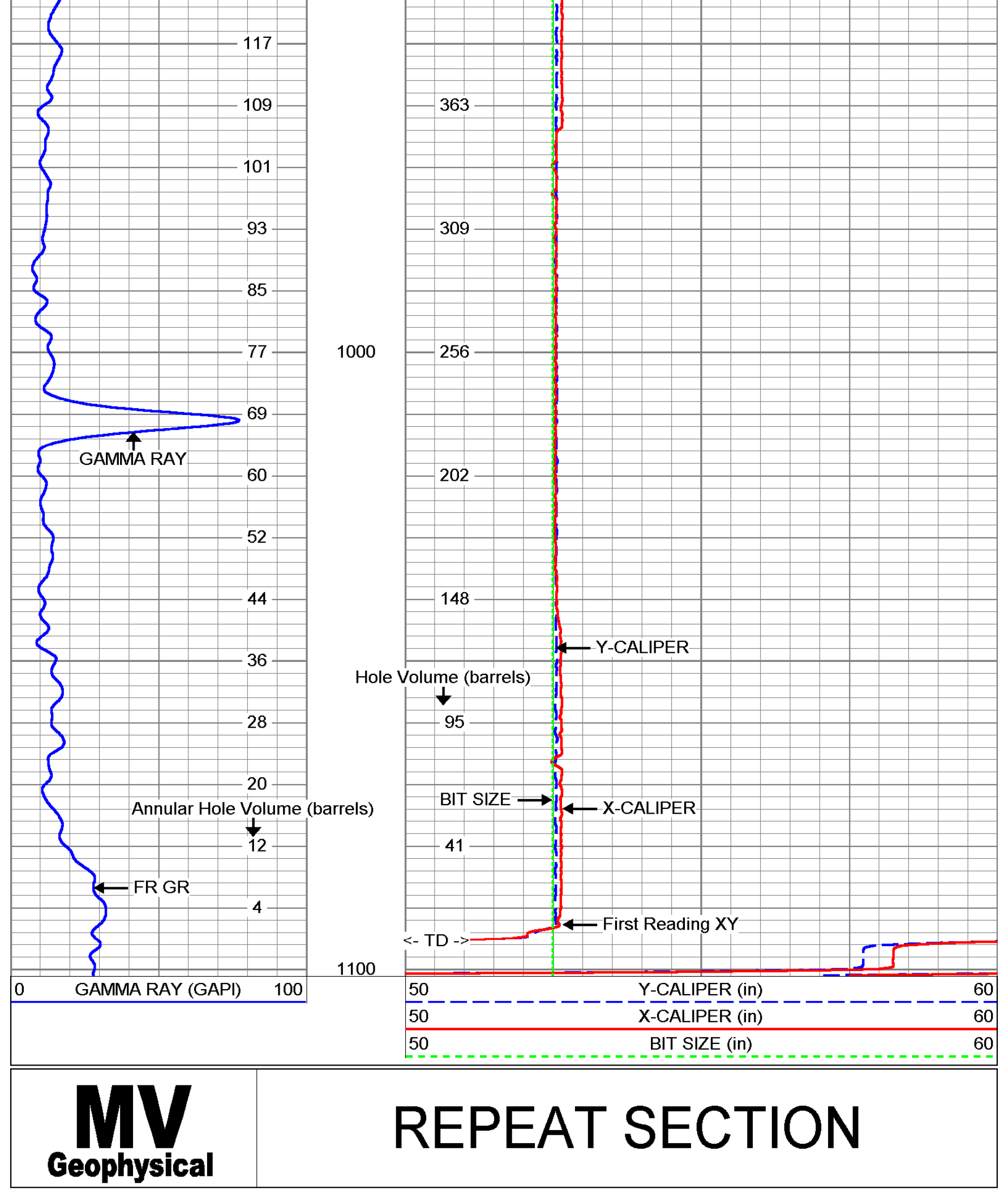
Database File: ltp1.db
Dataset Pathname: run4/MAIN
Presentation Format: XY5060B5
Dataset Creation: Tue Jun 21 08:35:42 2011
Charted by: Depth in Feet scaled 1:240



REPEAT SECTION

MV Geophysical

Database File: ltp1.db
Dataset Pathname: run4/REPEAT
Presentation Format: XY5060B5
Dataset Creation: Tue Jun 21 08:47:43 2011
Charted by: Depth in Feet scaled 1:240

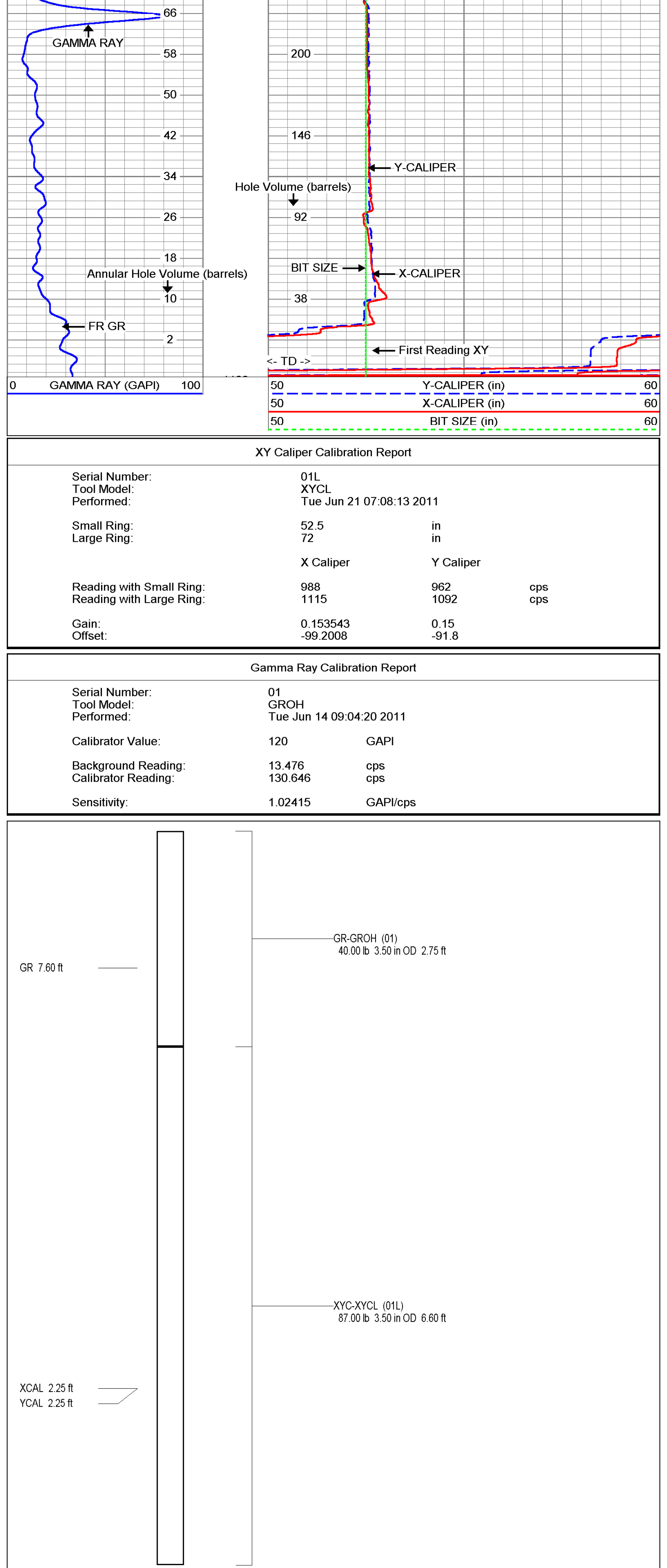


XY Caliper Calibration Report

Serial Number:	01L		
Tool Model:	XYCL		
Performed:	Tue Jun 21 07:08:13 2011		
Small Ring:	52.5	in	
Large Ring:	72	in	
	X Caliper	Y Caliper	
Reading with Small Ring:	988	962	cps
Reading with Large Ring:	1115	1092	cps
Gain:	0.153543	0.15	
Offset:	-99.2008	-91.8	

Gamma Ray Calibration Report

Serial Number:	01	
Tool Model:	GROH	
Performed:	Tue Jun 14 09:04:20 2011	
Calibrator Value:	120	GAPI
Background Reading:	13.476	cps
Calibrator Reading:	130.646	cps
Sensitivity:	1.02415	GAPI/cps



Dataset: run4/pass2
Total Length: 9.35 ft
Total Weight: 127.00 lb
O.D. 3.50 in

MV Geophysical

CEMENT TOP LOG
HIGH RESOLUTION
TEMPERATURE
GAMMA RAY

Company	Layne Christensen Company
Well	Turkey Point EW-1
Field	Florida City
County	Miami-Dade
State/Prv	Florida

Location: FPL Turkey Point Power Plant
LAT: 25 25' 19" N LONG: 80 20' 08" W
McNabb Hydrogeologic, Inc.

Other Services: NONE

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

Company	Layne Christensen Company
Well	Turkey Point EW-1
Field	Florida City
County	Miami-Dade
State/Prv	Florida

Date	23-JUN-2011	
Run Number	FIVE	
Depth Driller	1085' Cmt Plg	
Depth Logger	1079' Cmt Plg	
Bottom Logged Interval	1079'	
Top Log Interval	SURFACE	
Open Hole Size	52.5"	
Type Fluid	MUD	
Density / Viscosity	NA/NA	
Max. Recorded Temp.	135 degF	
Estimated Cement Top	620'	
Time Well Ready	08:00 6/23/2011	
Time Logger on Bottom	08:15 6/23/2011	
Equipment Number	MVGS-1	
Location	Ft. Myers	
Recorded By	S.Miller	
Witnessed By	S.Durall (MHC)	K.Greuel (LCC)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'				
TWO	62.5"	SURFACE	259'				
THREE	12.25"	255'	1090'				
FOUR	52.5"	255'	1095'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String	54"	0.375" WT	SURFACE	255'
Production String	44"	0.375" WT	SURFACE	1090'
Liner				LTP1.db
Invoice No.	2011093	P.O. #:	8fld/las/pdf	* FINAL PRINT *

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Comments

CEMENNT TOP LOG

STAGE	TOP	TAG
1	620'	XXXX'
2	zzzz'	zzzz'

TEMPERATURE CALIBRATION REPORT (Performed: 19-MAY-11 09:15)

DEG-F	CPS
34.1	143.7
138.7	2608.44

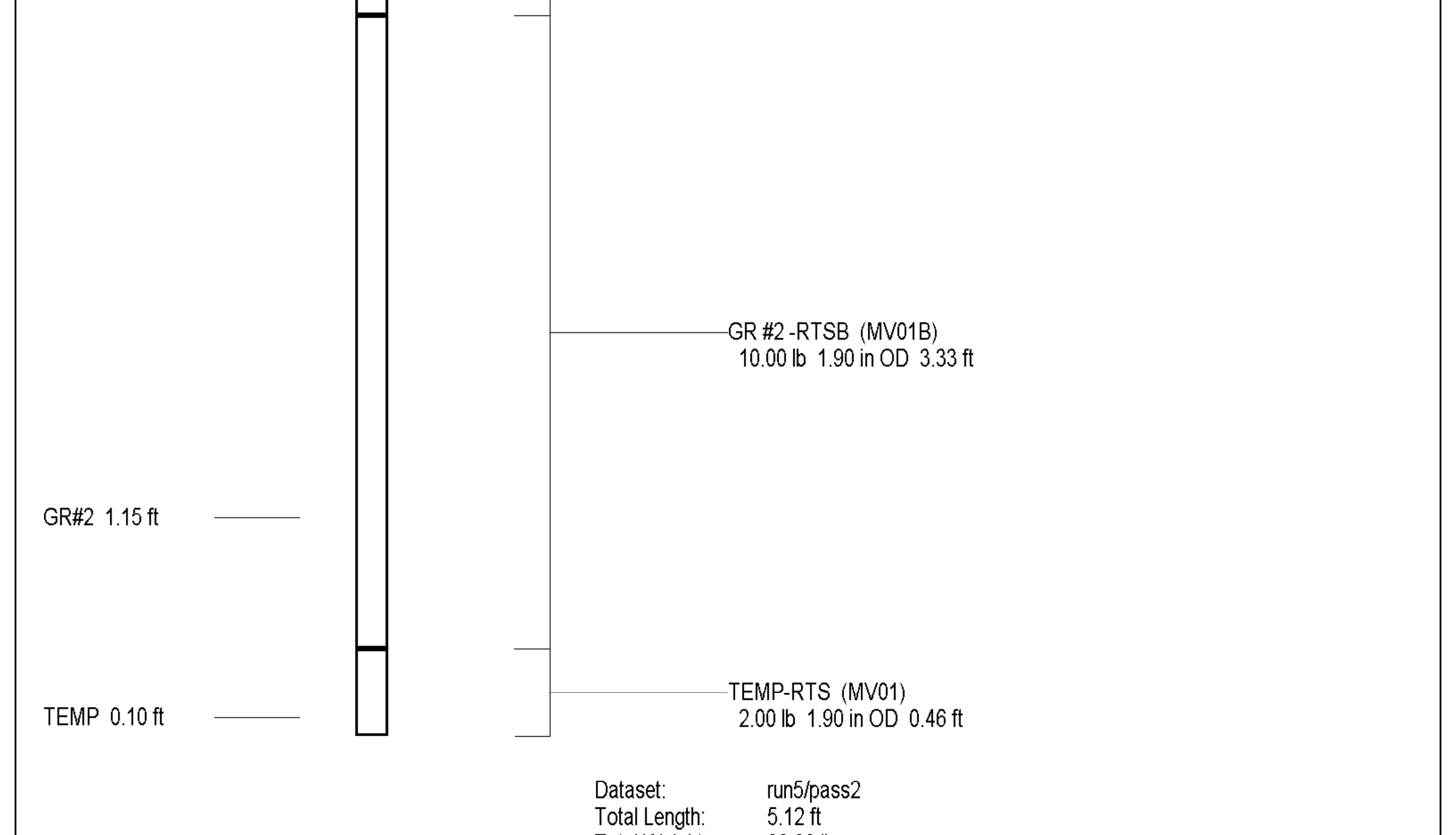
MV Geophysical

Stage1 Est'dCmtTop=620'

Database File:	ltp1.db
Dataset Pathname:	run5/pass1
Presentation Format:	CTLCC-3
Dataset Creation:	Thu Jun 23 08:13:50 2011 by Log VER_5.3
Charted by:	Depth in Feet scaled 1:240

Gamma Ray Calibration Report

Serial Number:	MV01B	
Tool Model:	RTSB	
Performed:	Thu Jun 23 08:48:19 2011	
Calibrator Value:	120	GAPI
Background Reading:	21.9372	cps
Calibrator Reading:	157.491	cps
Sensitivity:	0.885257	GAPI/cps



Dataset:	run5/pass2
Total Length:	5.12 ft
Total Weight:	20.00 lb
O.D.	1.90 in

MV Geophysical

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade
State/Prv Florida

CEMENT TOP LOG
HIGH RESOLUTION
TEMPERATURE
GAMMA RAY

Company	Layne Christensen Company
Well	Turkey Point EW-1
Field	Florida City
County	Miami-Dade
State/Prv	Florida
Location	FPL Turkey Point Power Plant LAT: 25 25' 19" N LONG: 80 20' 08" W McNabb Hydrogeologic, Inc.
Other Services	NONE

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

Date	23-JUN-2011	23-JUN-2011
Run Number	FIVE-a	FIVE-b
Depth Driller	1085' Cmt Plg	
Depth Logger	1079' Cmt Plg	
Bottom Logged Interval	1079'	
Top Log Interval	SURFACE	
Open Hole Size	52.5"	
Type Fluid	MUD	
Density / Viscosity	NA/NA	
Max. Recorded Temp.	135 degF	125.7degF
Estimated Cement Top	620'	264'
Time Well Ready	08:00 6/23/2011	23:00 6/23/2011
Time Logger on Bottom	08:15 6/23/2011	23:00 6/23/2011
Equipment Number	MVGS-1	
Location	Ft. Myers	
Recorded By	S.Miller	
Witnessed By	S.Durall (MHC)	K.Greuel (LCC)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'				
TWO	62.5"	SURFACE	259'				
THREE	12.25"		1090'				
FOUR	52.5"	255'	1095'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String	54"	0.375" WT	SURFACE	255'
Production String	44"	0.375" WT	SURFACE	1090'
Liner				LTP1.db
Invoice No.	2011093	P.O. #:	8fld/las/pdf	* FINAL PRINT *

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Comments

CEMENNT TOP LOG

STAGE	TOP	TAG
1	620'	667'
2	264'	265'

TEMPERATURE CALIBRATION REPORT (Performed: 19-MAY-11 09:15)

DEG-F	CPS
34.1	143.7
138.7	2608.44

MV Geophysical

Stage2 Est'dCmtTop=264'

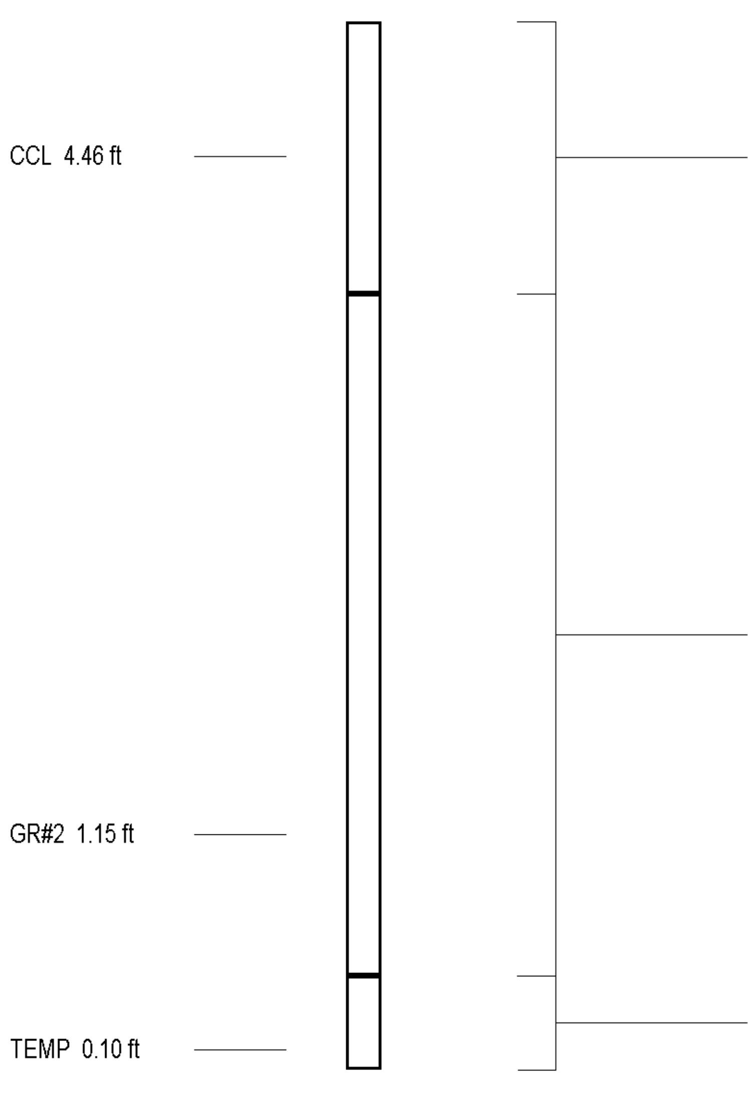
Database File:	ltp1.db
Dataset Pathname:	run5/pass3
Presentation Format:	CTLCC-3
Dataset Creation:	Thu Jun 23 22:56:03 2011 by Log VER_5.3
Charted by:	Depth in Feet scaled 1:240

0 TEMP (degF) 200
0 GAMMA RAY (GAPI) 100
100 TEMPERATURE (degF) 120
-0.5 DELTA TEMP (degF) 0.5

0 TEMP (degF) 200
0 GAMMA RAY (GAPI) 100
100 TEMPERATURE (degF) 120
-0.5 DELTA TEMP (degF) 0.5

Gamma Ray Calibration Report

Serial Number:	MV01B	
Tool Model:	RTSB	
Performed:	Thu Jun 23 08:48:19 2011	
Calibrator Value:	120	GAPI
Background Reading:	21.9372	cps
Calibrator Reading:	157.491	cps
Sensitivity:	0.885257	GAPI/cps



Dataset:	run5/pass2
Total Length:	5.12 ft
Total Weight:	20.00 lb
O.D.	1.90 in

MV Geophysical

CEMENT TOP LOG
HIGH RESOLUTION
TEMPERATURE
GAMMA RAY

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade
State/Prv Florida

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade State/Prv Florida

Location
FPL Turkey Point Power Plant
LAT: 25 25' 19" N LONG: 80 20' 08" W
McNabb Hydrogeologic, Inc.

Other Services
NONE

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

Date	23-JUN-2011	23-JUN-2011	24-JUN-2011
Run Number	FIVE-a	FIVE-b	FIVE-c
Depth Driller	1085' Cmt Plg		
Depth Logger	1079' Cmt Plg		
Bottom Logged Interval	1079'		
Top Log Interval	SURFACE		
Open Hole Size	52.5"		
Type Fluid	MUD		
Density / Viscosity	NA/NA		
Max. Recorded Temp.	135 degF	125.7degF	135 degF
Estimated Cement Top	620'	264'	24'
Time Well Ready	08:00 6/23/2011	23:00 6/23/2011	09:00 6/24/2011
Time Logger on Bottom	08:15 6/23/2011	23:00 6/23/2011	09:15 6/24/2011
Equipment Number	MVGS-1		
Location	Ft. Myers		
Recorded By	S.Miller		
Witnessed By	S.Durall (MHC)	K.Greuel (LCC)	

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'				
TWO	62.5"	SURFACE	255'				
THREE	12.25"	255'	1090'				
FOUR	52.5"	255'	1095'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String	54"	0.375" WT	SURFACE	255'
Production String	44"	0.375" WT	SURFACE	1090'
Liner				LTP1.db
Invoice No.	2011093-095	P.O. #:	8fdlas/pdf	* FINAL PRINT *

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Comments

CEMENNT TOP LOG

STAGE	TOP	TAG
1	620'	667'
2	264'	265'
9	24'	22'

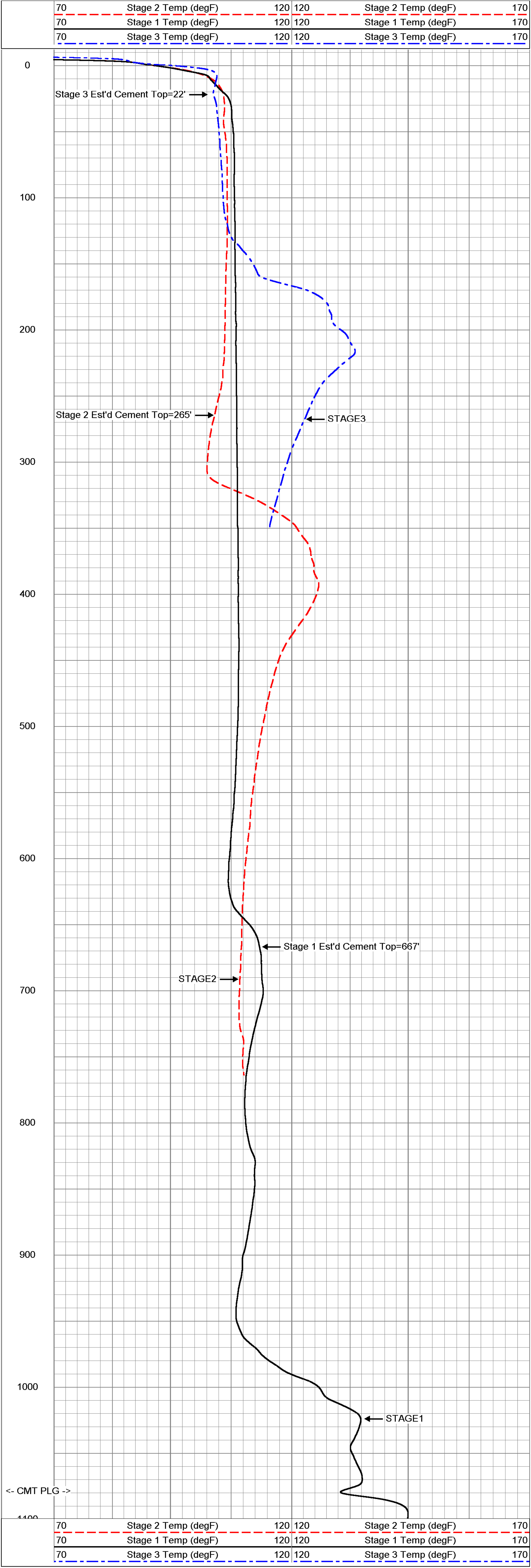
TEMPERATURE CALIBRATION REPORT (Performed: 19-MAY-11 09:15)

DEG-F	CPS
34.1	143.7
138.7	2608.44

MV Geophysical

Merged Cement Tops

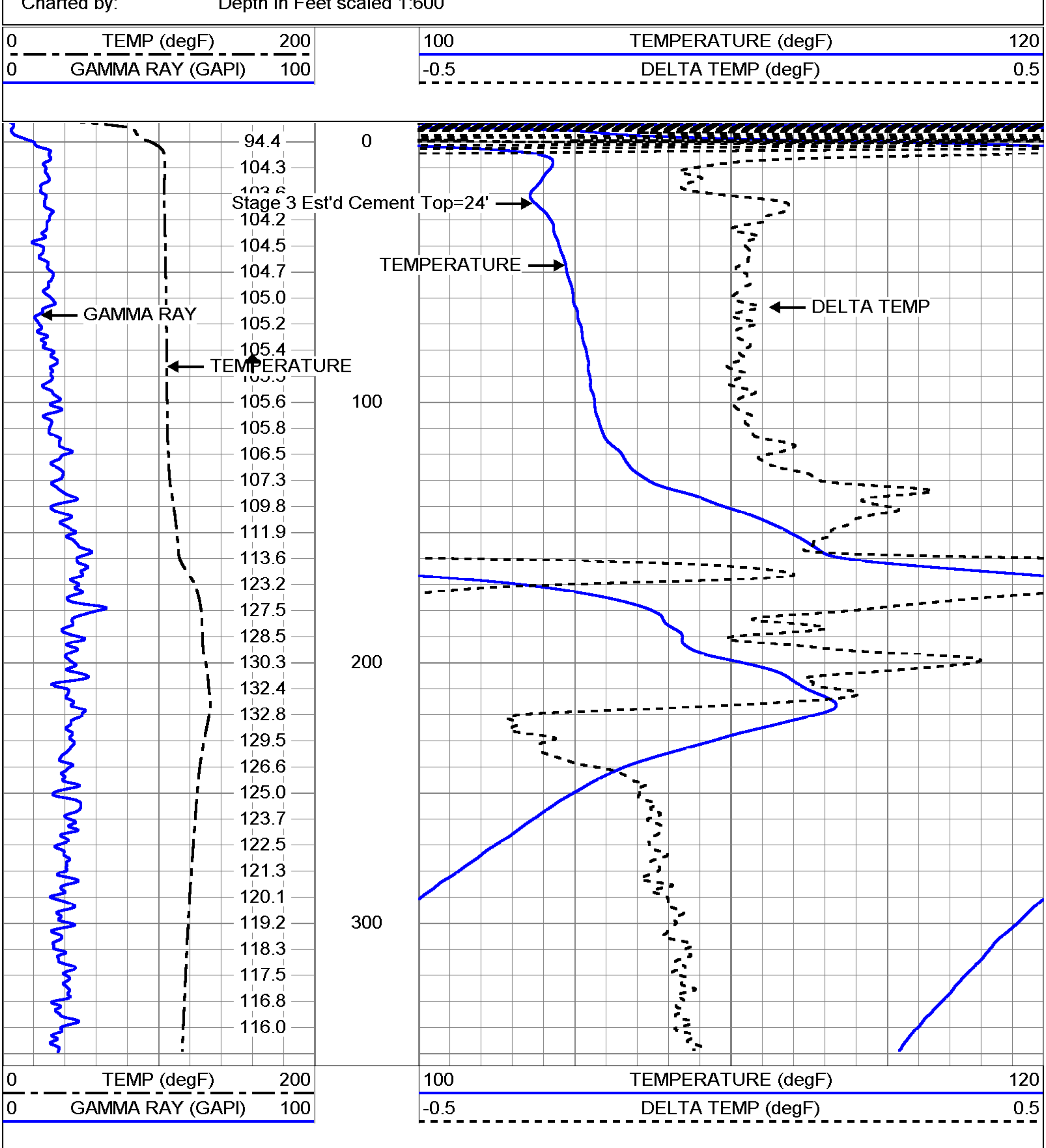
Database File: ltp1.db
Dataset Pathname: run5/MERGE
Presentation Format: CTLMRG2
Dataset Creation: Fri Jun 24 09:56:35 2011
Charted by: Depth in Feet scaled 1:600



MV Geophysical

Stage3 Est'dCmtTop=24'

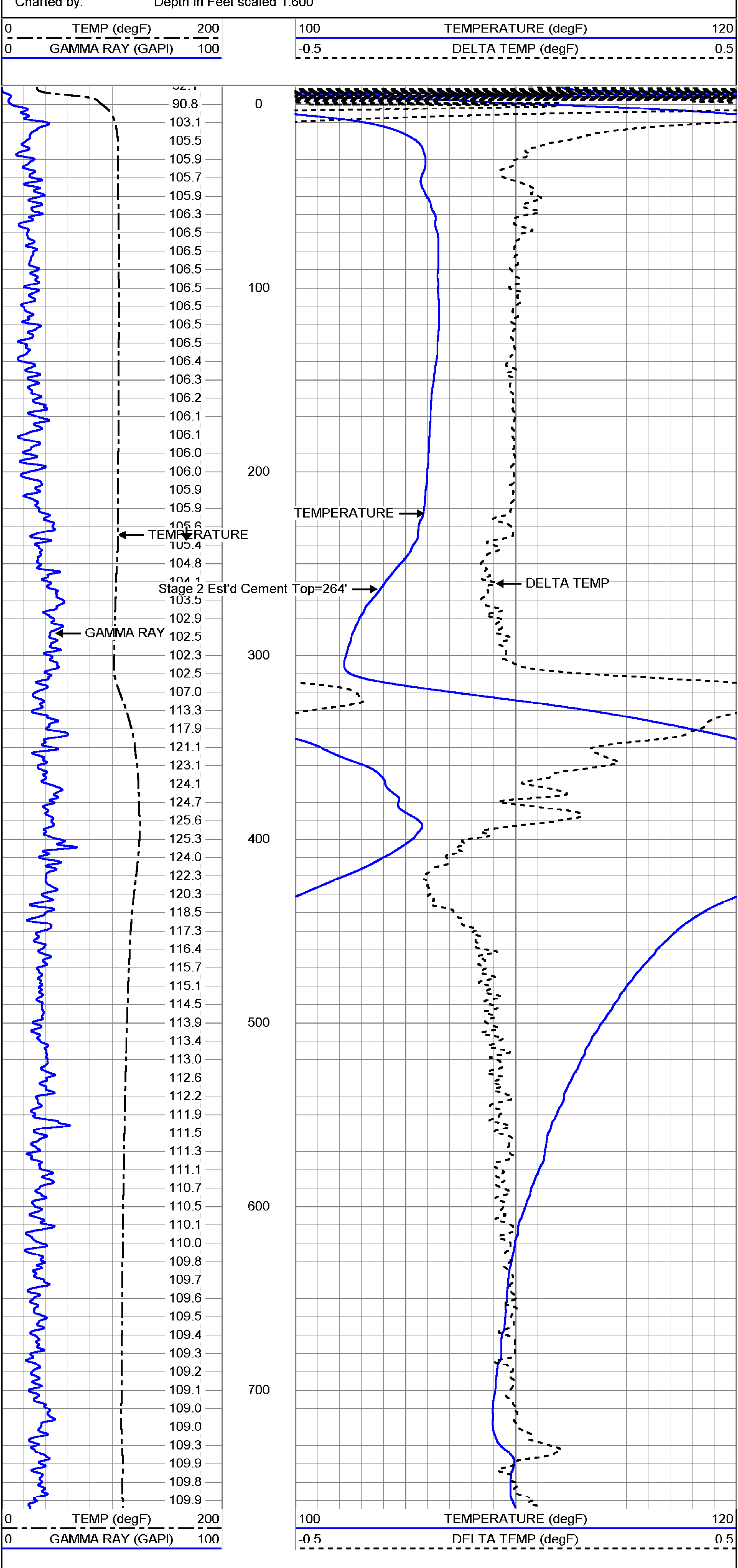
Database File: ltp1.db
Dataset Pathname: run5/pass4
Presentation Format: CTLCC-3
Dataset Creation: Fri Jun 24 09:22:28 2011 by Log VER_5.3
Charted by: Depth in Feet scaled 1:600



MV Geophysical

Stage2 Est'dCmtTop=264'

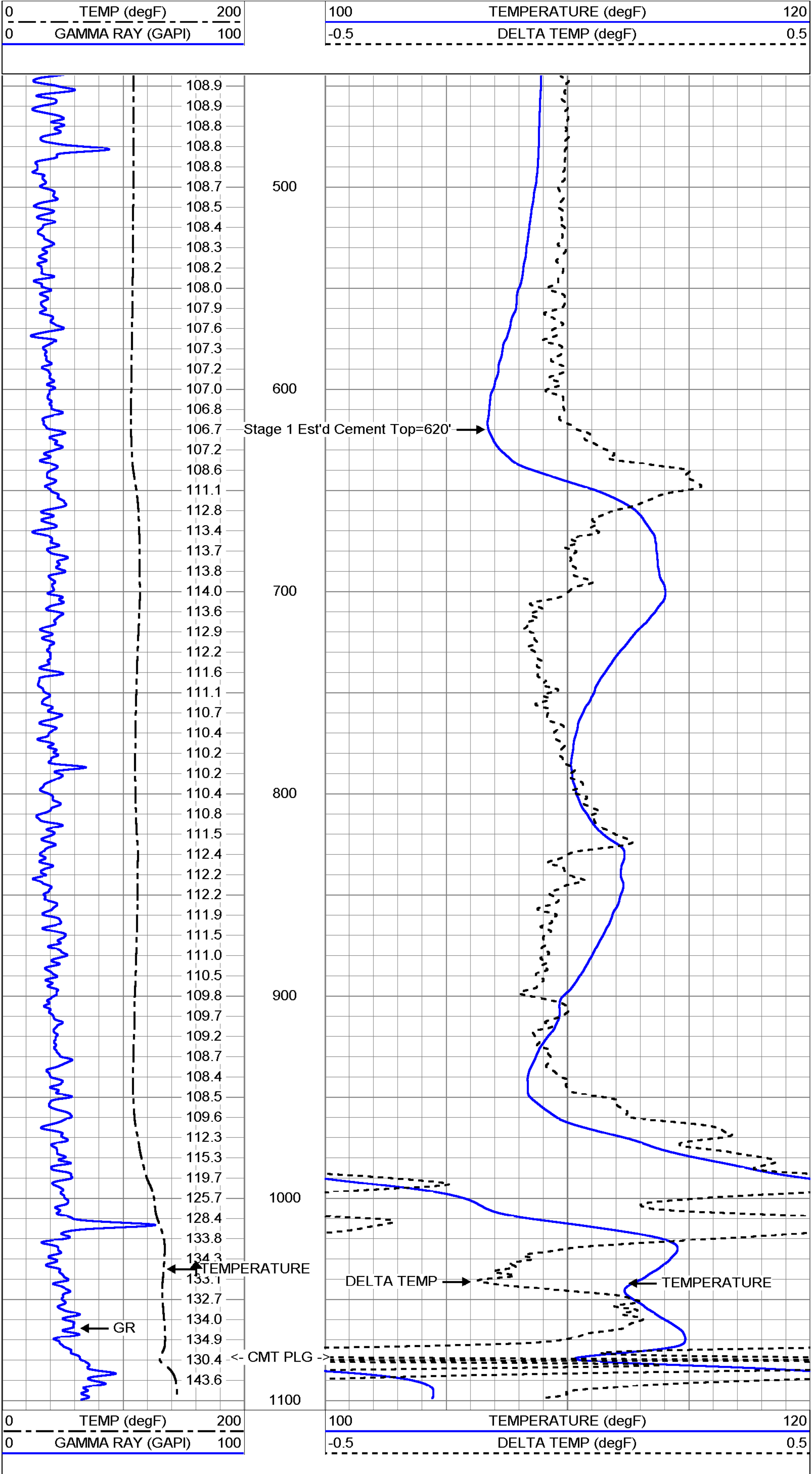
Database File: ltp1.db
Dataset Pathname: run5/pass3
Presentation Format: CTLCC-3
Dataset Creation: Thu Jun 23 22:56:03 2011 by Log VER_5.3
Charted by: Depth in Feet scaled 1:600



MV Geophysical

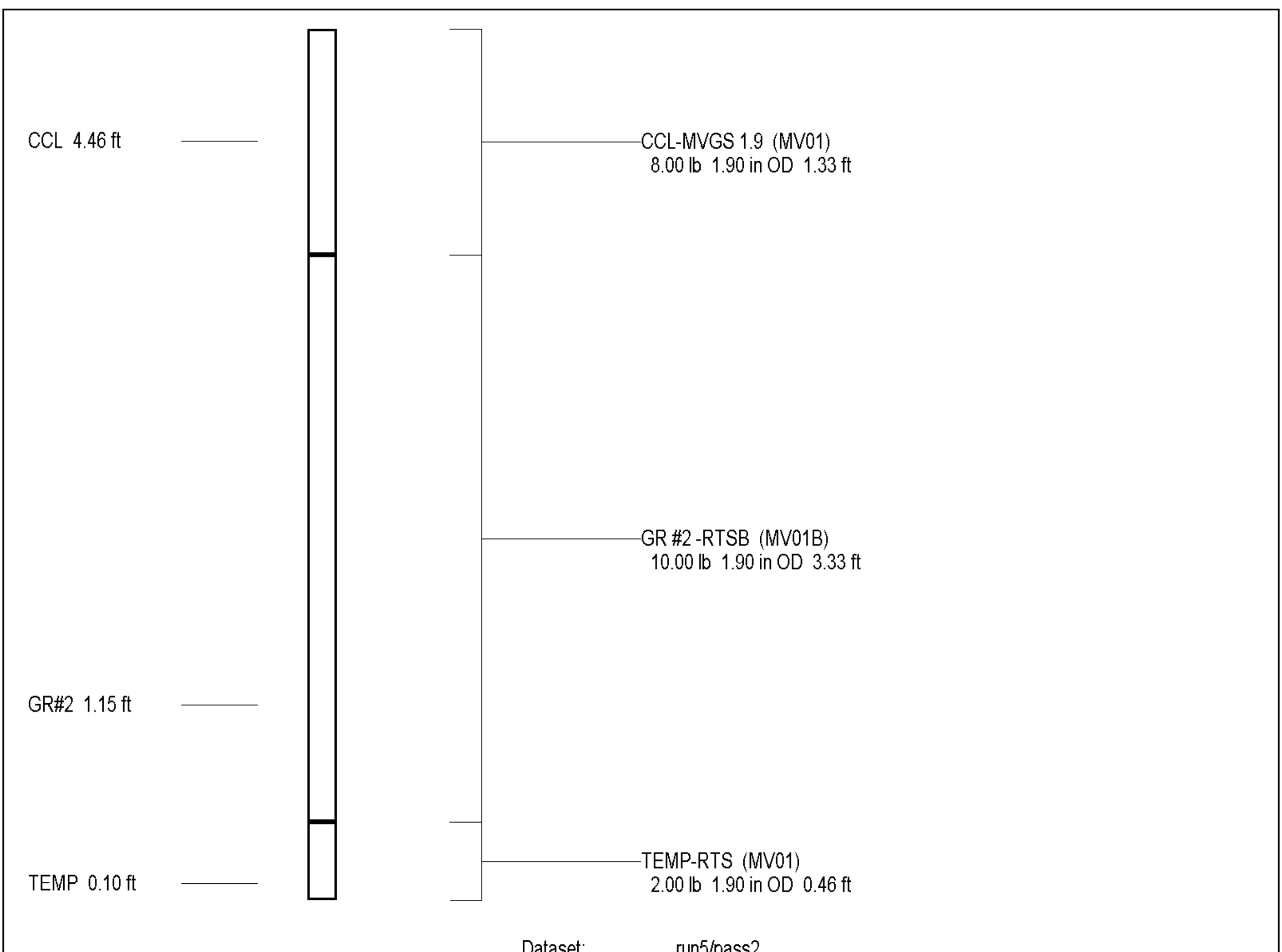
Stage1 Est'dCmtTop=620'

Database File: ltp1.db
Dataset Pathname: run5/pass1
Presentation Format: CTLCC-3
Dataset Creation: Thu Jun 23 08:13:50 2011 by Log VER_5.3
Charted by: Depth in Feet scaled 1:600



Gamma Ray Calibration Report

Serial Number:	MV01B	
Tool Model:	RTSB	
Performed:	Thu Jun 23 08:48:19 2011	
Calibrator Value:	120	GAPI
Background Reading:	21.9372	cps
Calibrator Reading:	157.491	cps
Sensitivity:	0.885257	GAPI/cps



Dataset: run5/pass2
Total Length: 5.12 ft
Total Weight: 20.00 lb
O.D. 1.90 in

MV Geophysical

BOREHOLE COMPENSATED SONIC w/ VARIABLE DENSITY LOG

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade
State/Prv Florida

Company	Layne Christensen Company
Well	Turkey Point EW-1
Field	Florida City
County	Miami-Dade
State/Prv	Florida
Location	FPL Turkey Point Power Plant LAT: 25 25' 19" N LONG: 80 20' 08" W McNabb Hydrogeologic Consulting, Inc.
Other Services	XY/GR,FCT DIL,BHC FLO,TDS
Permanent Datum	Pad Level
Elevation	
Log Measured From	Pad Level
Drilling Measured From	Pad Level
Elevation	K.B. D.F. G.L.

Date	12-JUL-2011
Run Number	SIX-d
Depth Driller	1655'
Depth Logger	1654'
Bottom Logged Interval	1646'
Top Log Interval	1085'
Open Hole Size	12.25"
Type Fluid	H2O
Density / Viscosity	NA/NA
Max. Recorded Temp.	see FCT log
Estimated Cement Top	SURFACE
Time Well Ready	01:15 7/12/2011
Time Logger on Bottom	08:15 7/12/2011
Equipment Number	MVGS-1
Location	Ft. Myers
Recorded By	S.Miller
Witnessed By	D.Daigle (ASRus) K.Greuel (LCC)

Borehole Record

Run Number	Bit	From	To
ONE	12.25"	SURFACE	255'
TWO	62.5"	SURFACE	259'
THREE	12.25"	255'	1090'
FOUR	52.5"	255'	1095'

Tubing Record

Size	Weight	From	To
			1655'

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String	54"	0.375" WT	SURFACE	255'
Production String	44"	0.375" WT	SURFACE	1090'
Liner				LTP1.db
Invoice No.	2011102	P.O. #:	8fldlas/pdf	* FINAL PRINT *

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Comments

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

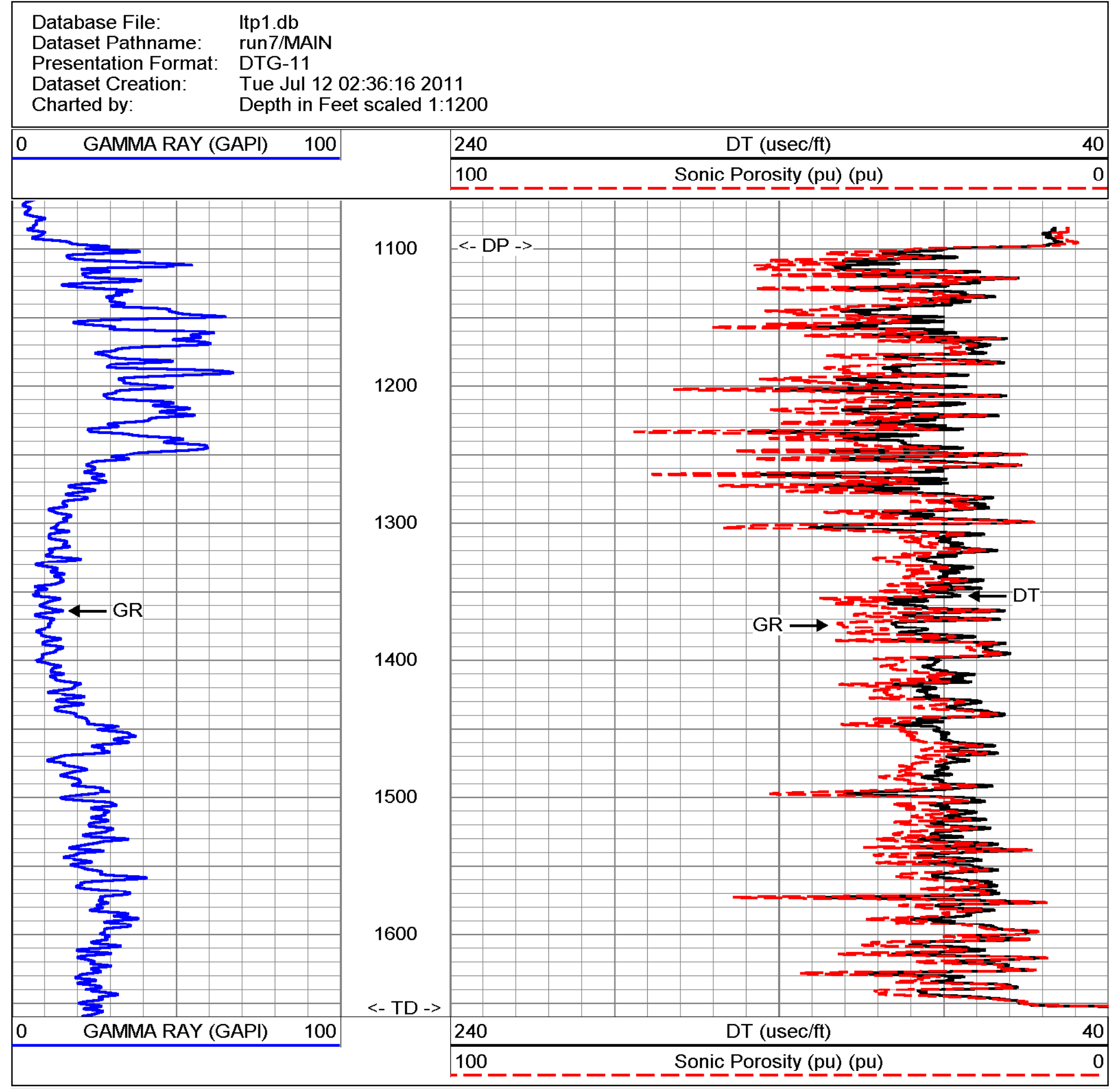
Drill Pipe set to 1098'

Full Riser / Hydraulic Packoff

MV Geophysical

MAIN PASS

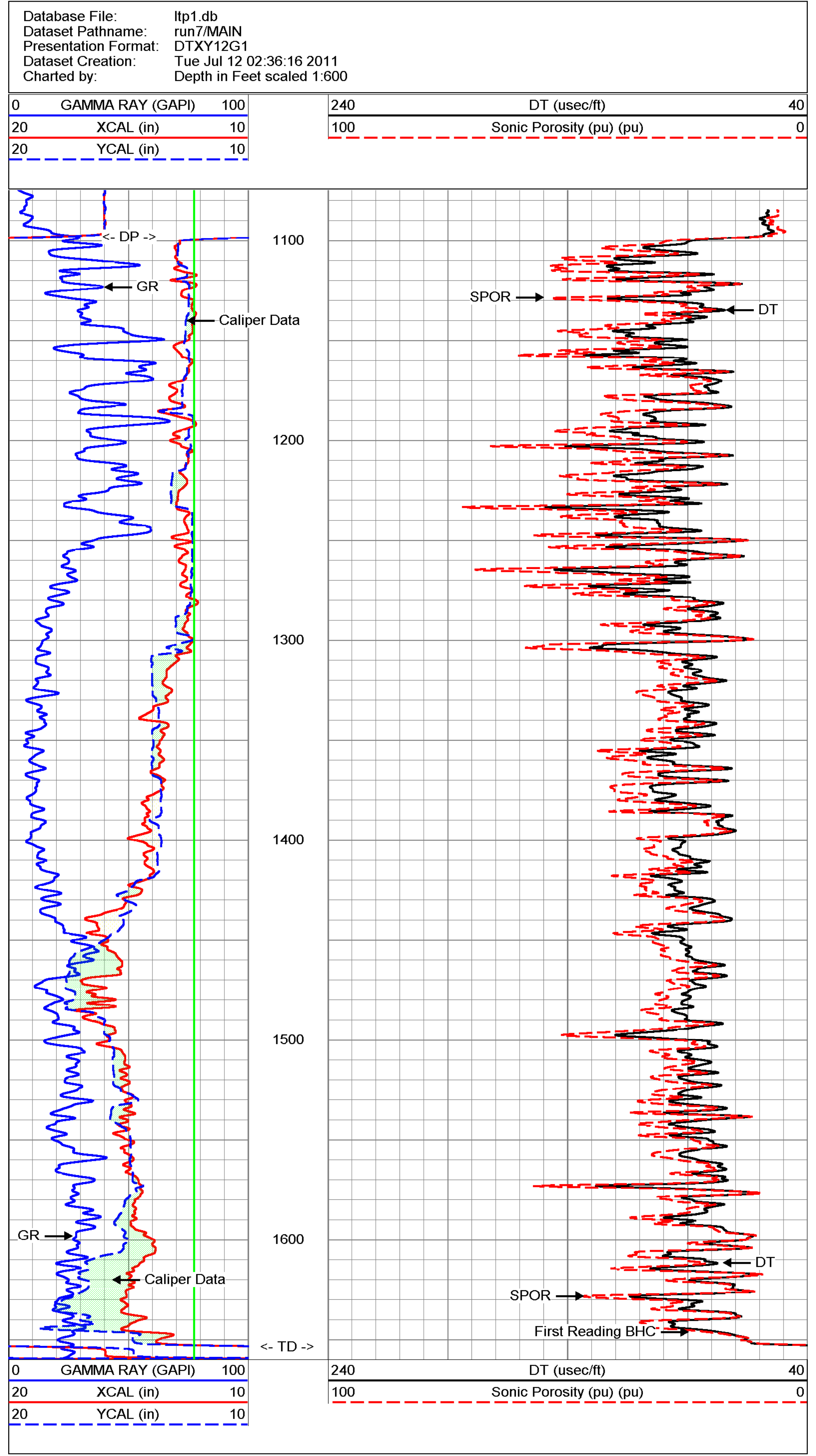
Database File: ltp1.db
Dataset Pathname: run7/MAIN
Presentation Format: DTG-11
Dataset Creation: Tue Jul 12 02:36:16 2011
Charted by: Depth in Feet scaled 1:1200



MV Geophysical

MAIN PASS

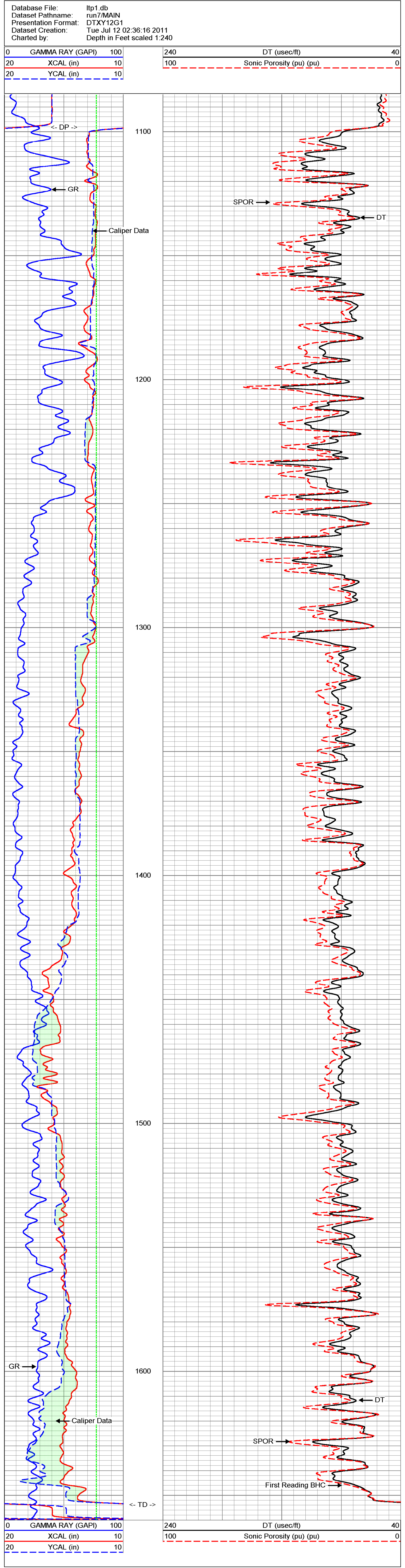
Database File: ltp1.db
Dataset Pathname: run7/MAIN
Presentation Format: DTXY12G1
Dataset Creation: Tue Jul 12 02:36:16 2011
Charted by: Depth in Feet scaled 1:600



MV Geophysical

MAIN PASS

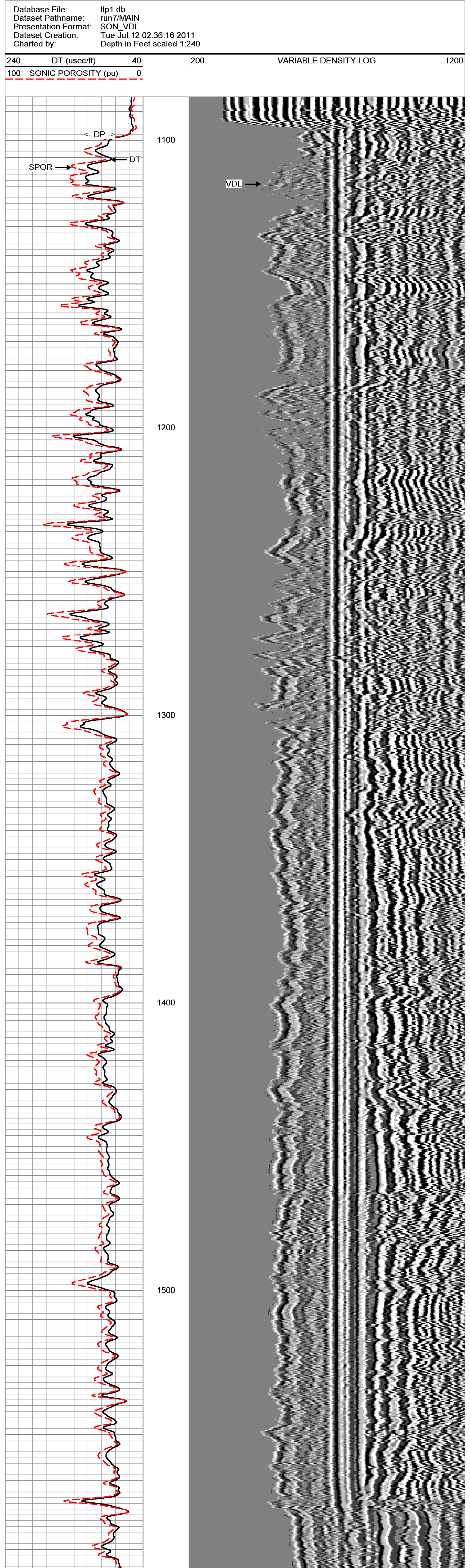
Database File: ltp1.db
Dataset Pathname: run7/MAIN
Presentation Format: DTXY12G1
Dataset Creation: Tue Jul 12 02:36:16 2011
Charted by: Depth in Feet scaled 1:240



MV Geophysical

MAIN PASS

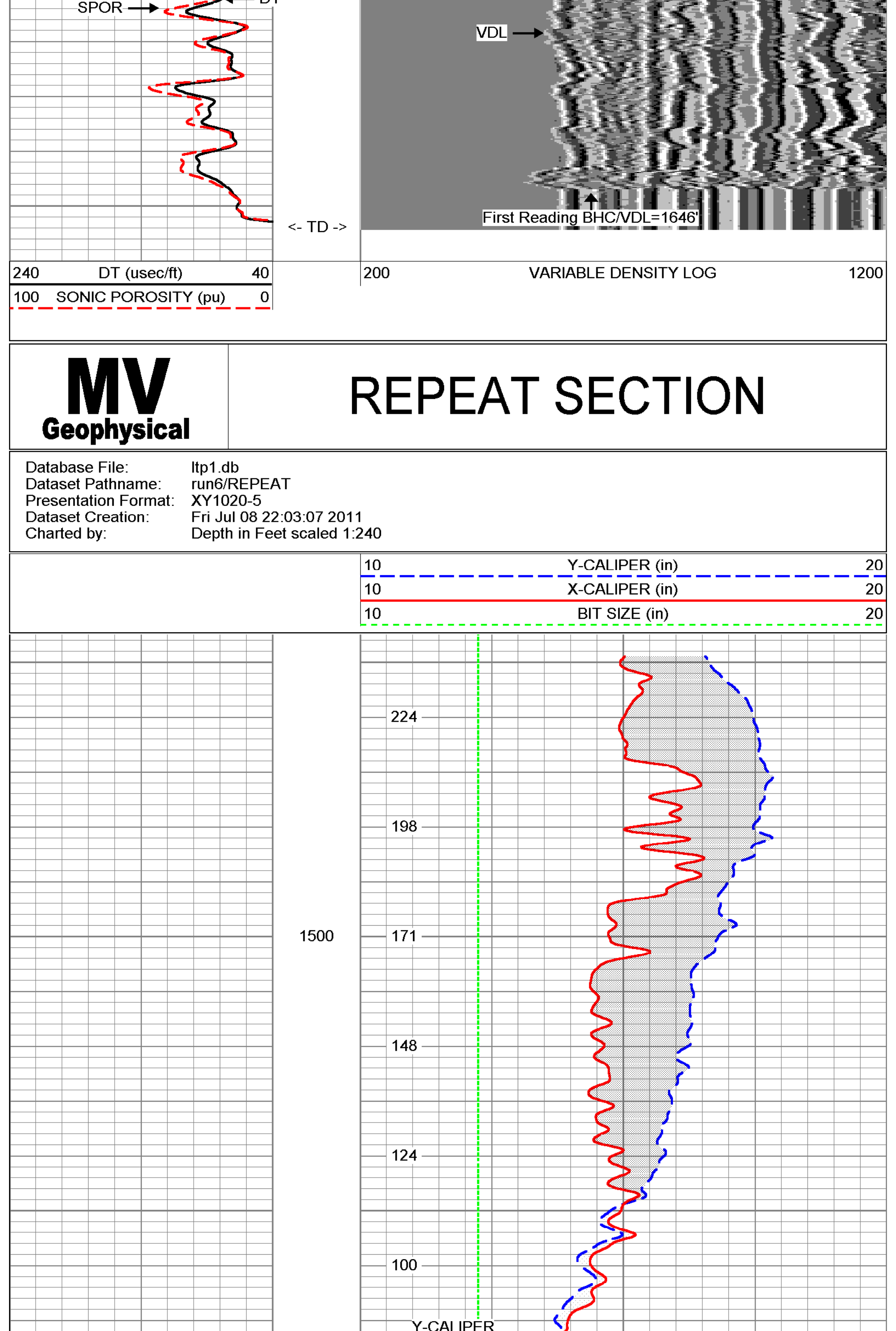
Database File: ltp1.db
Dataset Pathname: run7/MAIN
Presentation Format: SON_VDL
Dataset Creation: Tue Jul 12 02:36:16 2011
Charted by: Depth in Feet scaled 1:240

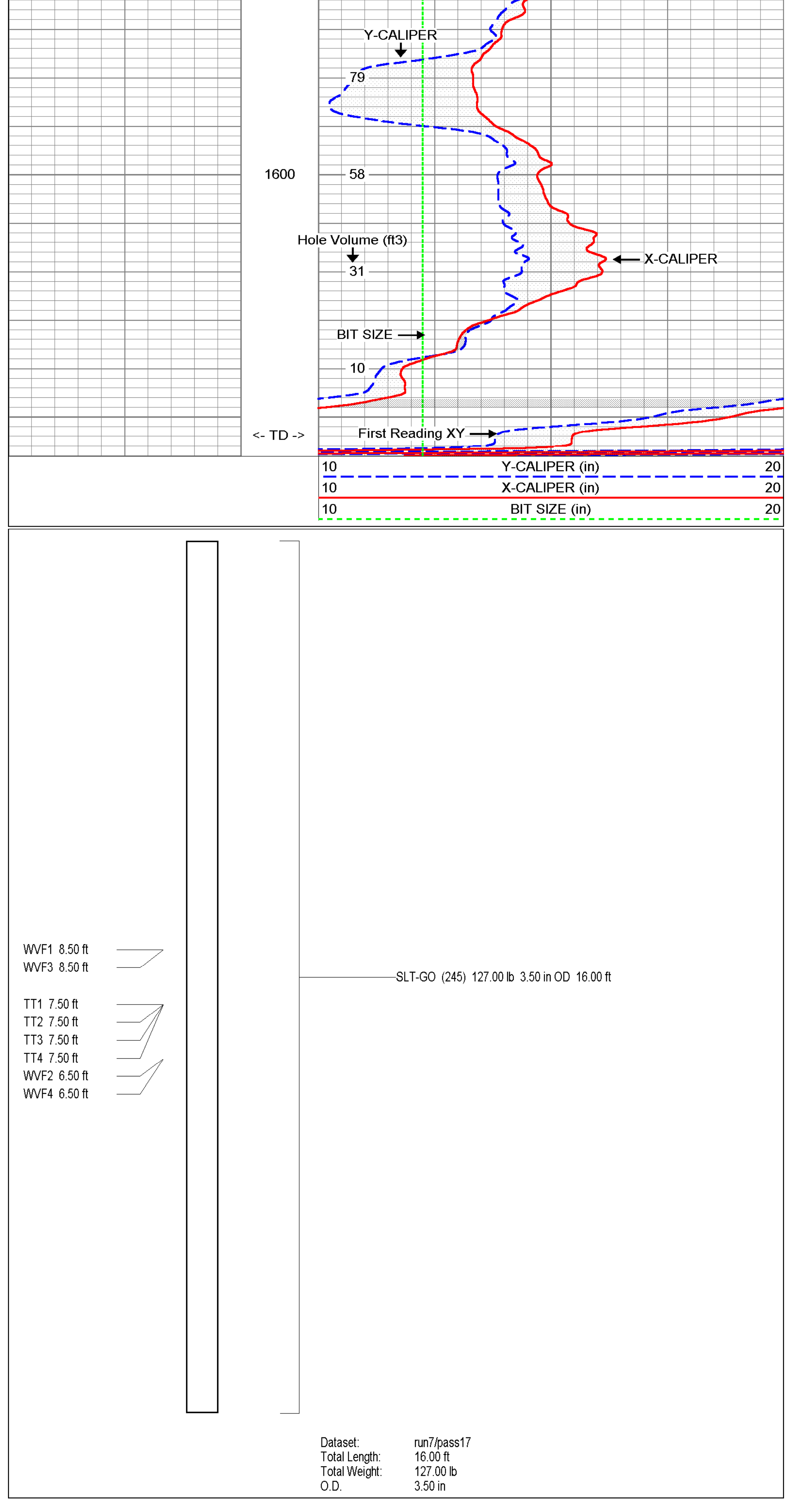


MV Geophysical

REPEAT SECTION

Database File: ltp1.db
Dataset Pathname: run6/REPEAT
Presentation Format: XY1020-5
Dataset Creation: Fri Jul 08 22:03:07 2011
Charted by: Depth in Feet scaled 1:240





Dataset: run7/pass17
Total Length: 16.00 ft
Total Weight: 127.00 lb
O.D. 3.50 in

Company	Layne Christensen Company
Well	Turkey Point EW-1
Field	Florida City
County	Miami-Dade
State/Prv	Florida

MV Geophysical

DUAL INDUCTION LL3 / SP LOG

Company	Layne Christensen Company
Well	Turkey Point EW-1
Field	Florida City
County	Miami-Dade
State/Prv	Florida

Location
FPL Turkey Point Power Plant
LAT: 25 25' 19" N LONG: 80 20' 08" W
McNabb Hydrogeologic Consulting, Inc.

Other Services
XY/GR,FCT
DIL,BHC
FLO,TDS

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

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

Date	12-JUL-2011	
Run Number	SIX-d	
Depth Driller	1655'	
Depth Logger	1654'	
Bottom Logged Interval	1652'	
Top Log Interval	1098'	
Open Hole Size	12.25"	
Type Fluid	H2O	
Density / Viscosity	NA/NA	
Max. Recorded Temp.	see FCT log	
Estimated Cement Top	SURFACE	
Time Well Ready	01:15 7/12/2011	
Time Logger on Bottom	06:45 7/12/2011	
Equipment Number	MVGS-1	
Location	Ft. Myers	
Recorded By	S.Miller	
Witnessed By	D.Daigle (ASRus)	K.Greuel (LCC)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'				1655'
TWO	62.5"	SURFACE	259'				
THREE	12.25"	255'	1090'				
FOUR	52.5"	255'	1095'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String	54"	0.375" WT	SURFACE	255'
Production String	44"	0.375" WT	SURFACE	1090'
Liner				LTP1.db
Invoice No.	2011102	P.O. #:	8fd/las/pdf	* FINAL PRINT *

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Comments

Rm=1.761 ohm-m @ 78.9 degF

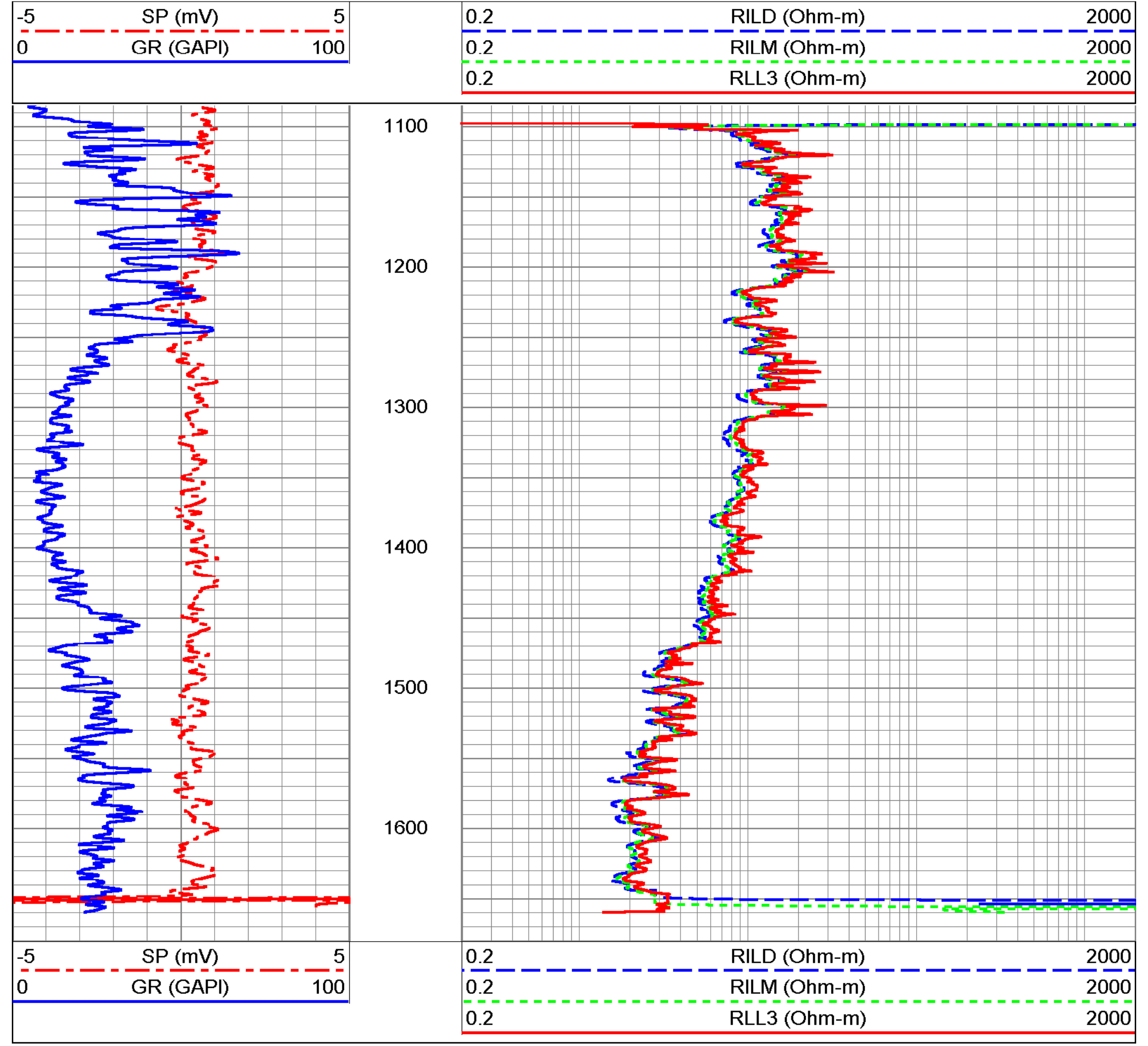
Drill Pipe set to 1098'

Full Riser / Hydraulic Packoff

MV Geophysical

MAIN PASS

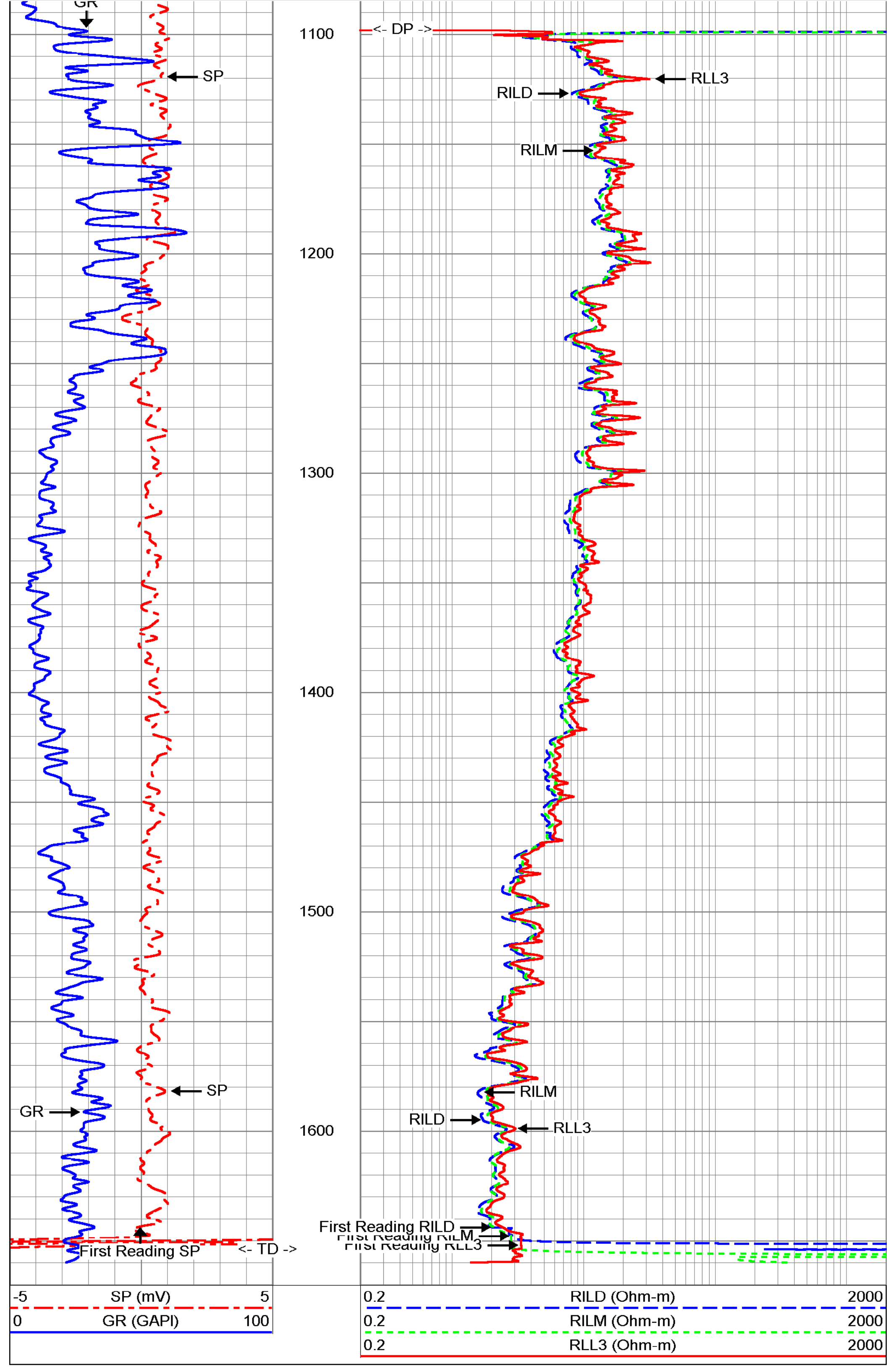
Database File: ltp1.db
Dataset Pathname: run7/MAIN
Presentation Format: DIL-1
Dataset Creation: Tue Jul 12 02:36:16 2011
Charted by: Depth in Feet scaled 1:1200



MV Geophysical

MAIN PASS

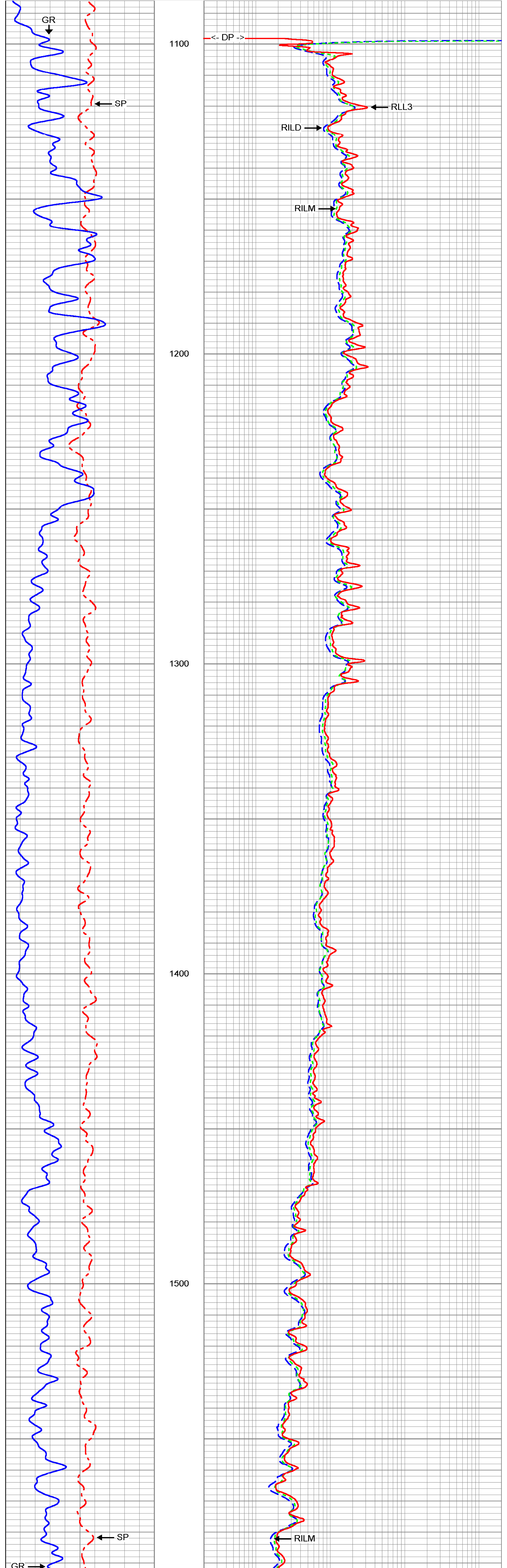
Database File: ltp1.db
Dataset Pathname: run7/MAIN
Presentation Format: DIL-5
Dataset Creation: Tue Jul 12 02:36:16 2011
Charted by: Depth in Feet scaled 1:600



MV Geophysical

MAIN PASS

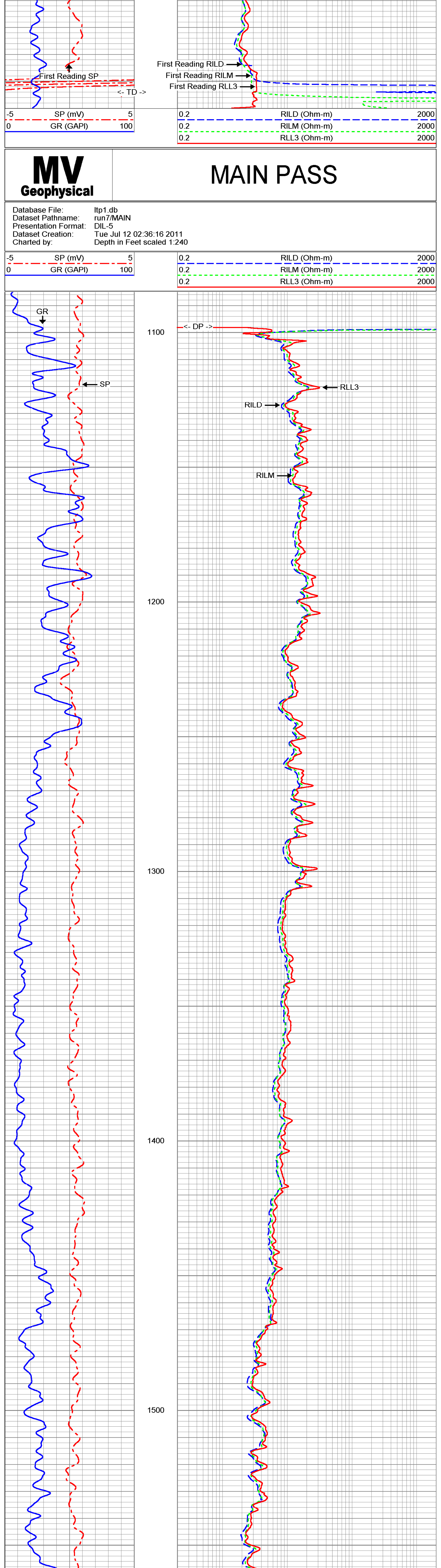
Database File: ltp1.db
Dataset Pathname: run7/MAIN
Presentation Format: DIL-5
Dataset Creation: Tue Jul 12 02:36:16 2011
Charted by: Depth in Feet scaled 1:240



MV Geophysical

MAIN PASS

Database File: ltp1.db
Dataset Pathname: run7/MAIN
Presentation Format: DIL-5
Dataset Creation: Tue Jul 12 02:36:16 2011
Charted by: Depth in Feet scaled 1:240



Dual Induction Calibration Report

Serial-Model: 5390-R
Surface Cal Performed: Wed Apr 21 11:17:23 2010
Downhole Cal Performed: Wed Apr 21 11:04:55 2010
After Survey Verification Performed: Wed Apr 21 11:04:55 2010

Surface Calibration

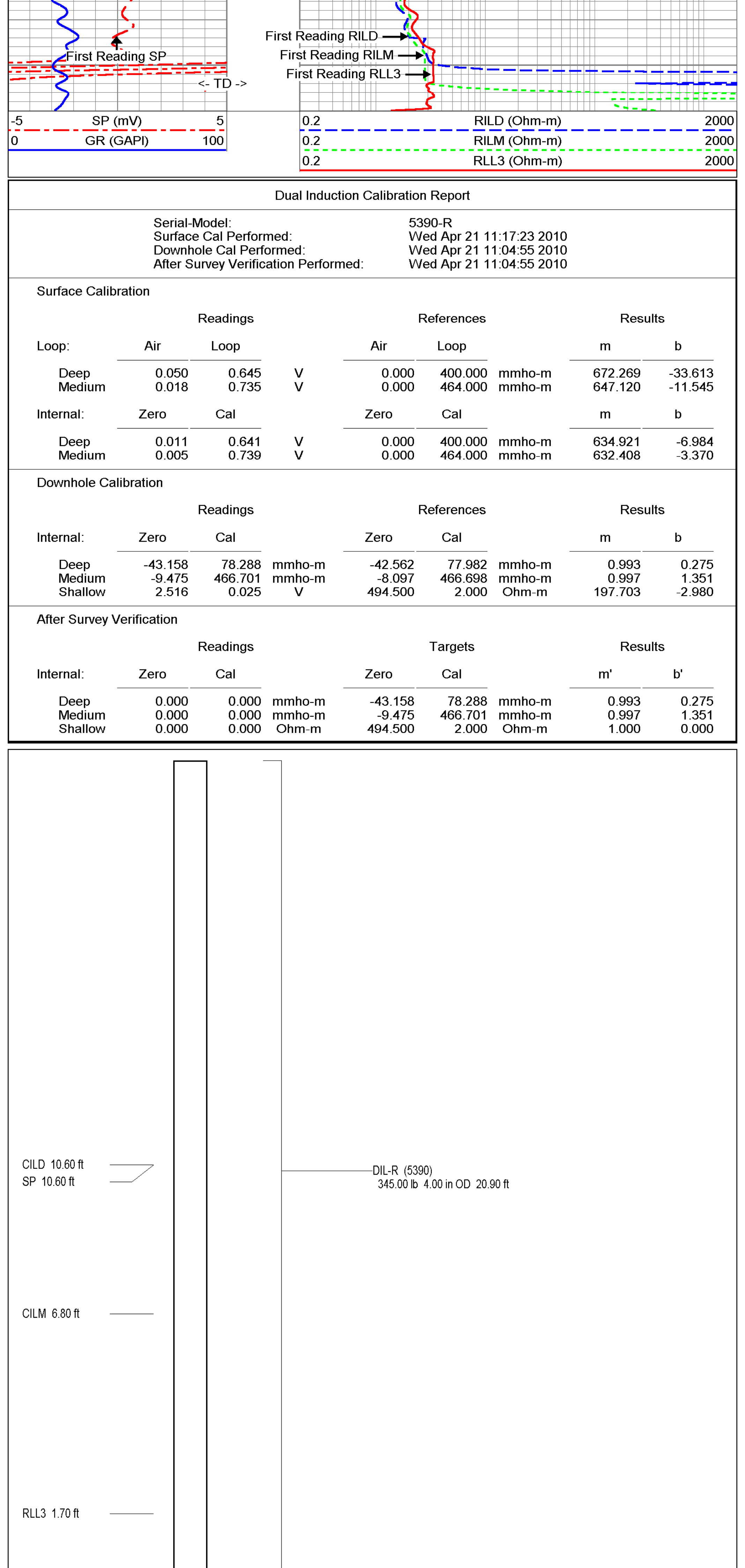
	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.050	0.645	V	0.000	400.000	mmho-m	672.269	-33.613
Medium	0.018	0.735	V	0.000	464.000	mmho-m	647.120	-11.545
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.641	V	0.000	400.000	mmho-m	634.921	-6.984
Medium	0.005	0.739	V	0.000	464.000	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	2.516	0.025	V	494.500	2.000	Ohm-m	197.703	-2.980

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



Dataset: run7/pass14
Total Length: 20.90 ft
Total Weight: 345.00 lb
O.D. 4.00 in

MV Geophysical

FLUID CONDUCTIVITY TEMPERATURE LOG

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade
State/Prv Florida

Company	Layne Christensen Company
Well	Turkey Point EW-1
Field	Florida City
County	Miami-Dade
State/Prv	Florida
Location	FPL Turkey Point Power Plant LAT: 25 25' 19" N LONG: 80 20' 08" W McNabb Hydrogeologic Consulting, Inc.
Other Services	XY/GR,FCT DIL,BHC FLO,TDS
Permanent Datum	Pad Level
Log Measured From	Pad Level
Drilling Measured From	Pad Level
Elevation	K.B. D.F. G.L.

Date	12-JUL-2011	
Run Number	SIX-d	
Depth Driller	1655'	
Depth Logger	1654'	
Bottom Logged Interval	1654'	
Top Log Interval	1045'	
Open Hole Size	12.25"	
Type Fluid	H2O	
Density / Viscosity	NA/NA	
Max. Recorded Temp.	see FCT log	
Estimated Cement Top	SURFACE	
Time Well Ready	01:15 7/12/2011	
Time Logger on Bottom	03:00 7/12/2011 D	10:00 7/12/2011 S
Equipment Number	MVGS-1	
Location	Ft. Myers	
Recorded By	S.Miller	
Witnessed By	S.Durall (MHC)	K.Greuel (LCC)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'				1655'
TWO	62.5"	SURFACE	259'				
THREE	12.25"	255'	1090'				
FOUR	52.5"	255'	1095'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String	54"	0.375" WT	SURFACE	255'
Production String	44"	0.375" WT	SURFACE	1090'
Liner				LTP1.db
Invoice No.	2011102	P.O. #:	8fld/las/pdf	* FINAL PRINT *

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Comments

DYNAMIC & STATIC down passes were performed.
Cw =5,860 uS/cm @ 7980 degC (from 1600'); Q=285 gpm.
FLUID RESISTIVITY CALIBRATION REPORT (Performed: 19-JUN-11 10:45)

uS/cm	CPS
237.1	3060.32
2578.54	2945.87
4410.24	2673.25

TEMPERATURE CALIBRATION REPORT (Performed: 19-JUN-11 10:15)

DEG-F	CPS
34.9	143.18
139.2	2600.14

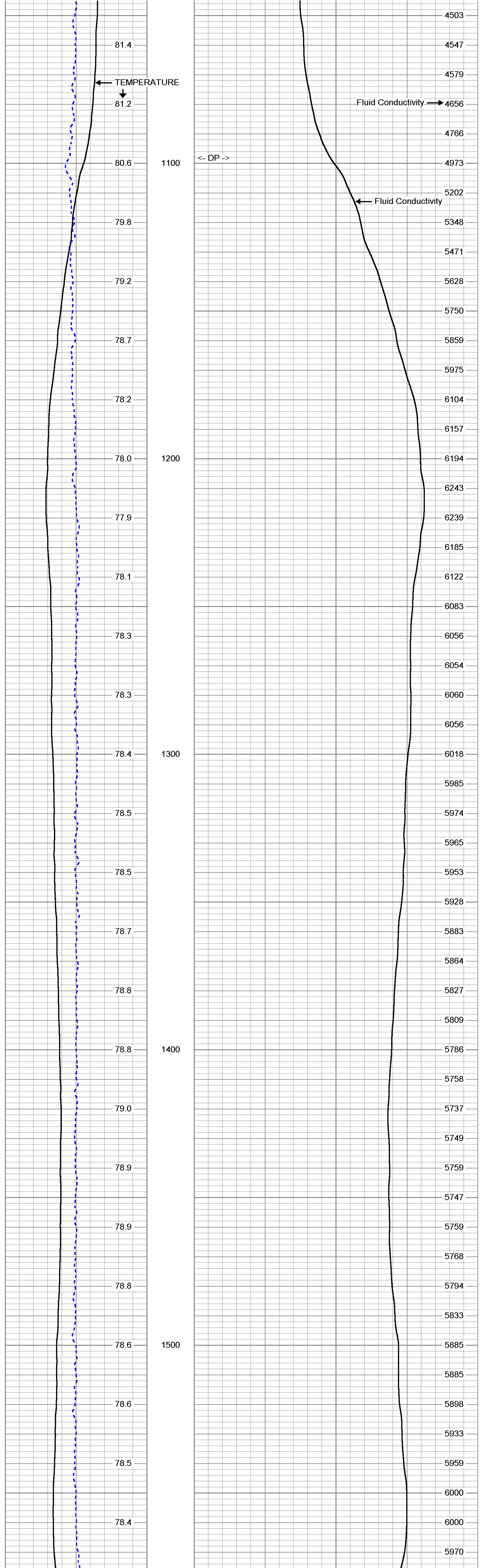
Drill Pipe set to 1098'

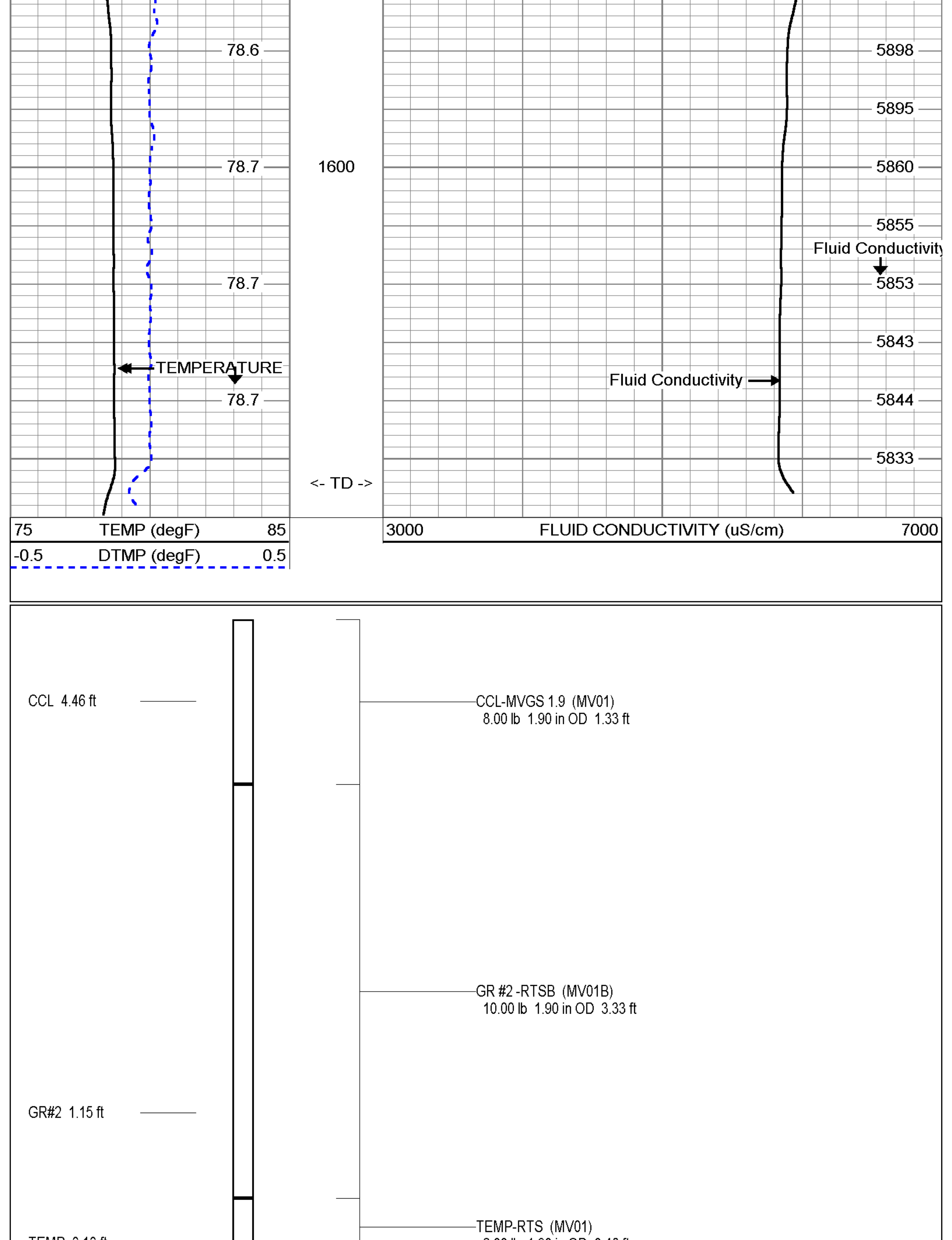
MV Geophysical — Dynamic FCT Down

Database File: ltp1.db
Dataset Pathname: run7/DFCT
Presentation Format: FCTTP1
Dataset Creation: Tue Jul 12 10:57:40 2011
Charted by: Depth in Feet scaled 1:240

MV Geophysical — Static FCT Down

Database File: ltp1.db
Dataset Pathname: run7/SFCT
Presentation Format: FCTTP1
Dataset Creation: Tue Jul 12 10:43:55 2011
Charted by: Depth in Feet scaled 1:240





Dataset: run7/pass18
Total Length: 5.12 ft
Total Weight: 20.00 lb
O.D. 1.90 in

Company	Layne Christensen Company
Well	Turkey Point EW-1
Field	Florida City
County	Miami-Dade
State/Prv	Florida

MV Geophysical

FLUID CONDUCTIVITY TEMPERATURE LOG

Company	Layne Christensen Company
Well	Turkey Point EW-1
Field	Florida City
County	Miami-Dade State/Prv Florida
Location	FPL Turkey Point Power Plant LAT: 25 25' 19" N LONG: 80 20' 08" W McNabb Hydrogeologic Consulting, Inc.
Other Services	XY/GR,FCT DIL,BHC FLO,TDS

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

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

Date	12-JUL-2011		
Run Number	SIX-e		
Depth Driller	1655'		
Depth Logger	1654'		
Bottom Logged Interval	1654'		
Top Log Interval	1045'		
Open Hole Size	12.25"		
Type Fluid	H2O		
Density / Viscosity	NA/NA		
Max. Recorded Temp.	see FCT log		
Estimated Cement Top	SURFACE		
Time Well Ready	18:15 7/12/2011		
Time Logger on Bottom	19:30 7/12/2011		
Equipment Number	MVGS-1		
Location	Ft. Myers		
Recorded By	S.Miller		
Witnessed By	S.Durall (MHC)	K.Greuel (LCC)	

Borehole Record			Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'				1655'
TWO	62.5"	SURFACE	259'				
THREE	12.25"	255'	1090'				
FOUR	52.5"	255'	1095'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String	54"	0.375" WT	SURFACE	255'
Production String	44"	0.375" WT	SURFACE	1090'
Liner				LTP1.db
Invoice No.	2011103	P.O. #:	8fld/las/pdf	* FINAL PRINT *

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Comments

DYNAMIC & STATIC down passes were performed.
Cw =19,660 uS/cm @ 81.1 degC (from 1600'); Q=300 gpm.
FLUID RESISTIVITY CALIBRATION REPORT (Performed: 19-JUN-11 10:45)

uS/cm	CPS
237.1	3060.32
2578.54	2945.87
4410.24	2673.25

TEMPERATURE CALIBRATION REPORT (Performed: 19-JUN-11 10:15)

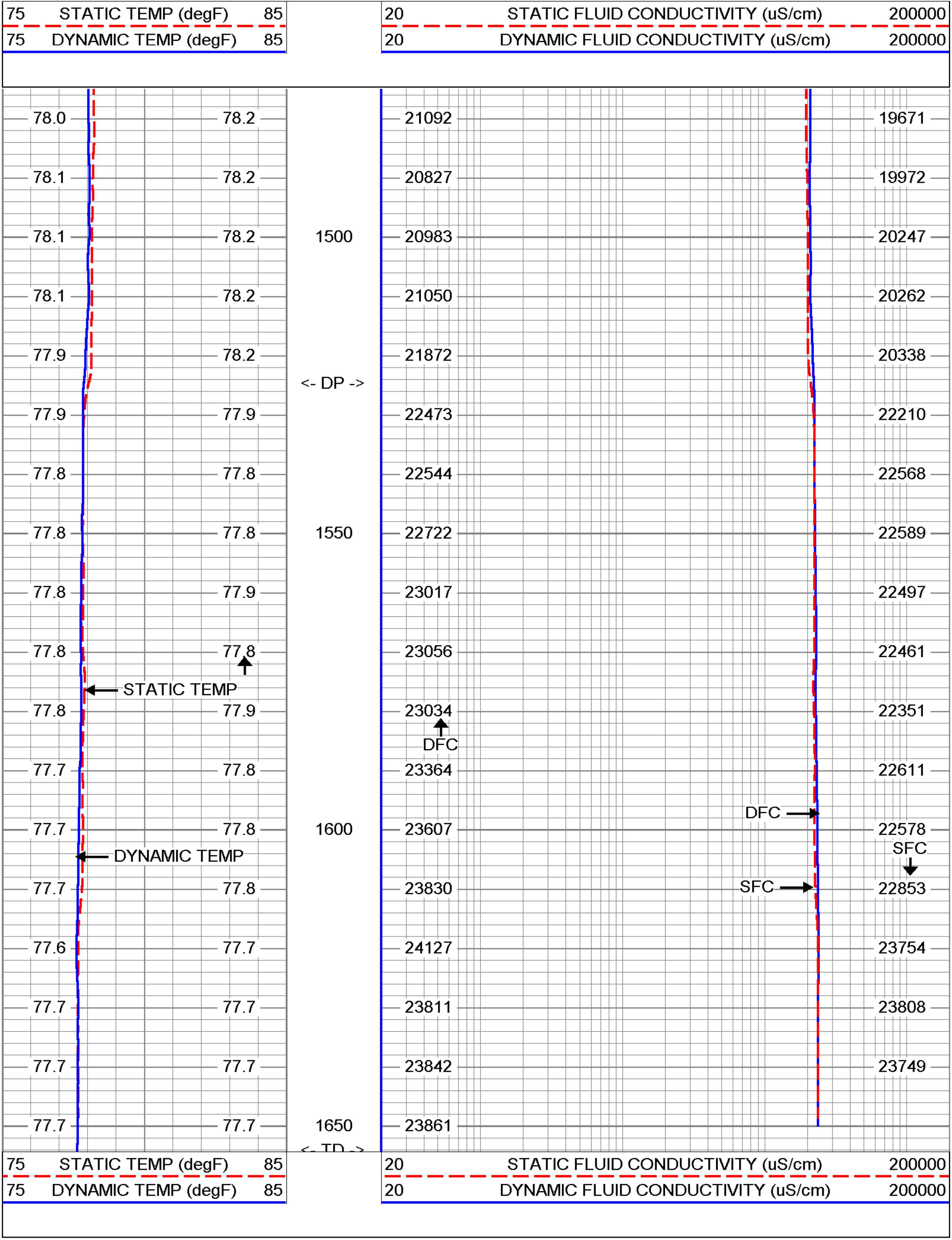
DEG-F	CPS
34.9	143.18
139.2	2600.14

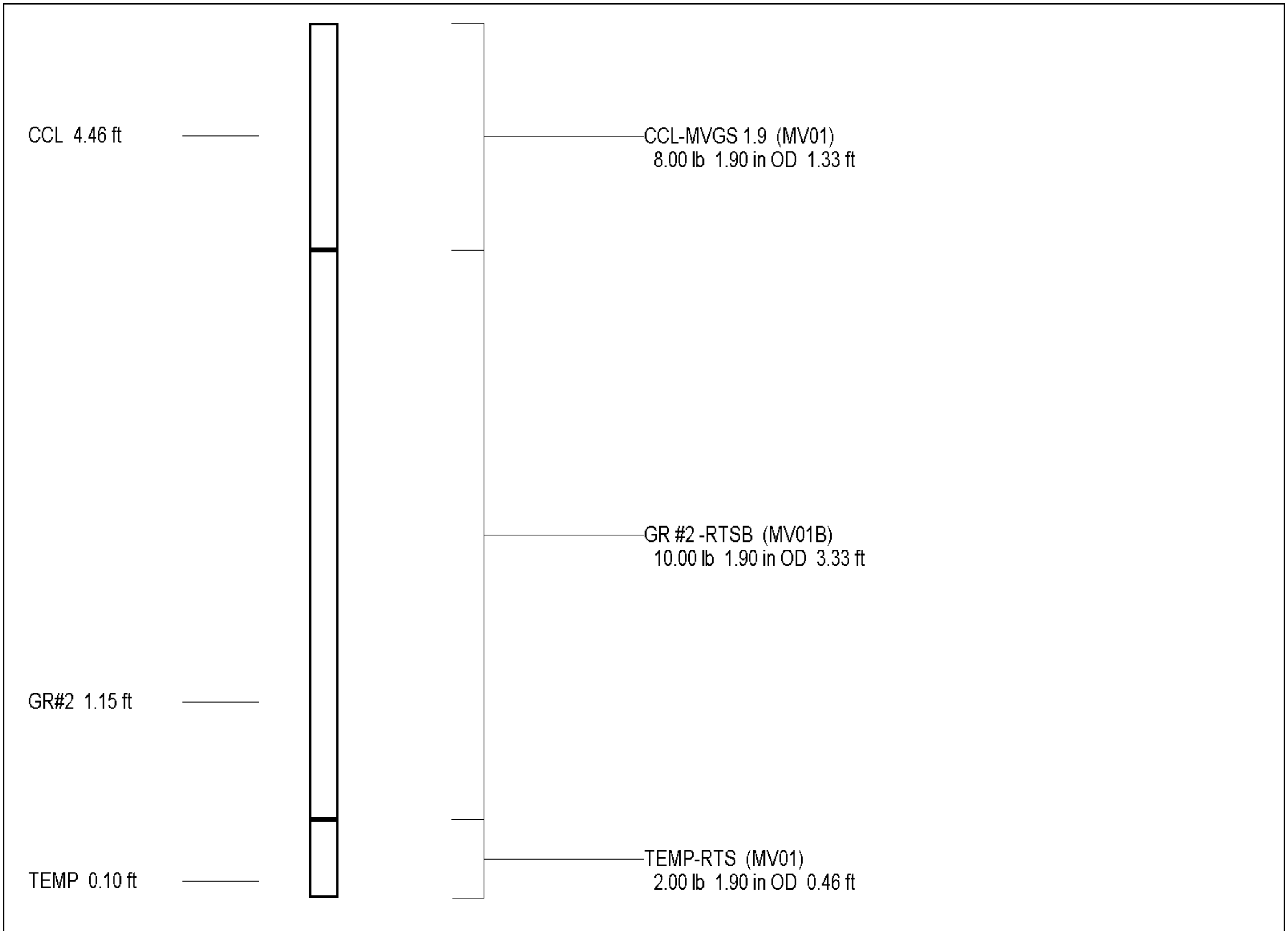
Drill Pipe set to 1098'

MV Geophysical

S/D FCT MERGE

Database File: ltp1.db
Dataset Pathname: run7/FCT6E
Presentation Format: FCTTP2
Dataset Creation: Tue Jul 12 20:30:01 2011
Charted by: Depth in Feet scaled 1:240





Dataset:	run7/pass18
Total Length:	5.12 ft
Total Weight:	20.00 lb
O.D.:	1.90 in

MV Geophysical

FLOWMETER LOG

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade
State/Prv Florida

Location
FPL Turkey Point Power Plant
LAT: 25 25' 19" N LONG: 80 20' 08" W
McNabb Hydrogeologic Consulting, Inc.

Other Services
XY/GR,FCT
DIL,BHC
FLO,TDS

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

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

Date	12-JUL-2011
Run Number	SIX-d
Depth Driller	1655'
Depth Logger	1654'
Bottom Logged Interval	1590'
Top Log Interval	1045'
Open Hole Size	12.25"
Type Fluid	H2O
Density / Viscosity	NA/NA
Max. Recorded Temp.	see FCT log
Estimated Cement Top	SURFACE
Time Well Ready	01:15 7/12/2011
Time Logger on Bottom	04:30 7/12/2011
Equipment Number	MVGS-1
Location	Ft. Myers
Recorded By	S.Miller
Witnessed By	S.Durall (MHC) K.Greuel (LCC)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'				1655'
TWO	62.5"	SURFACE	259'				
THREE	12.25"	255'	1090'				
FOUR	52.5"	255'	1095'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String	54"	0.375" WT	SURFACE	255'
Production String	44"	0.375" WT	SURFACE	1090'
Liner				LTP1.db
Invoice No.	2011102	P.O. #:	8fld/las/pdf	* FINAL PRINT *

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Comments

STATIC and DYNAMIC down passes were made at 82 fpm.

NO station performed.

Q =~285 gpm

Drill Pipe set to 1098'

Full Riser / Hydraulic Packoff

MV Geophysical

S/D DOWN @ 82 fpm

Database File: ltp1.db
Dataset Pathname: run7/SD82
Presentation Format: QTP1
Dataset Creation: Tue Jul 12 05:56:36 2011
Charted by: Depth in Feet scaled 1:240

0	DYNAMIC LINE SPEED (ft/min)	00		0	DYNAMIC (cps)	150
0	STATIC LINE SPEED (ft/min)	200		0	STATIC (cps)	150
20	X-CALIPER (in)	10				
20	Y CALIPER (in)	10				
20	BIT SIZE (in)	10				

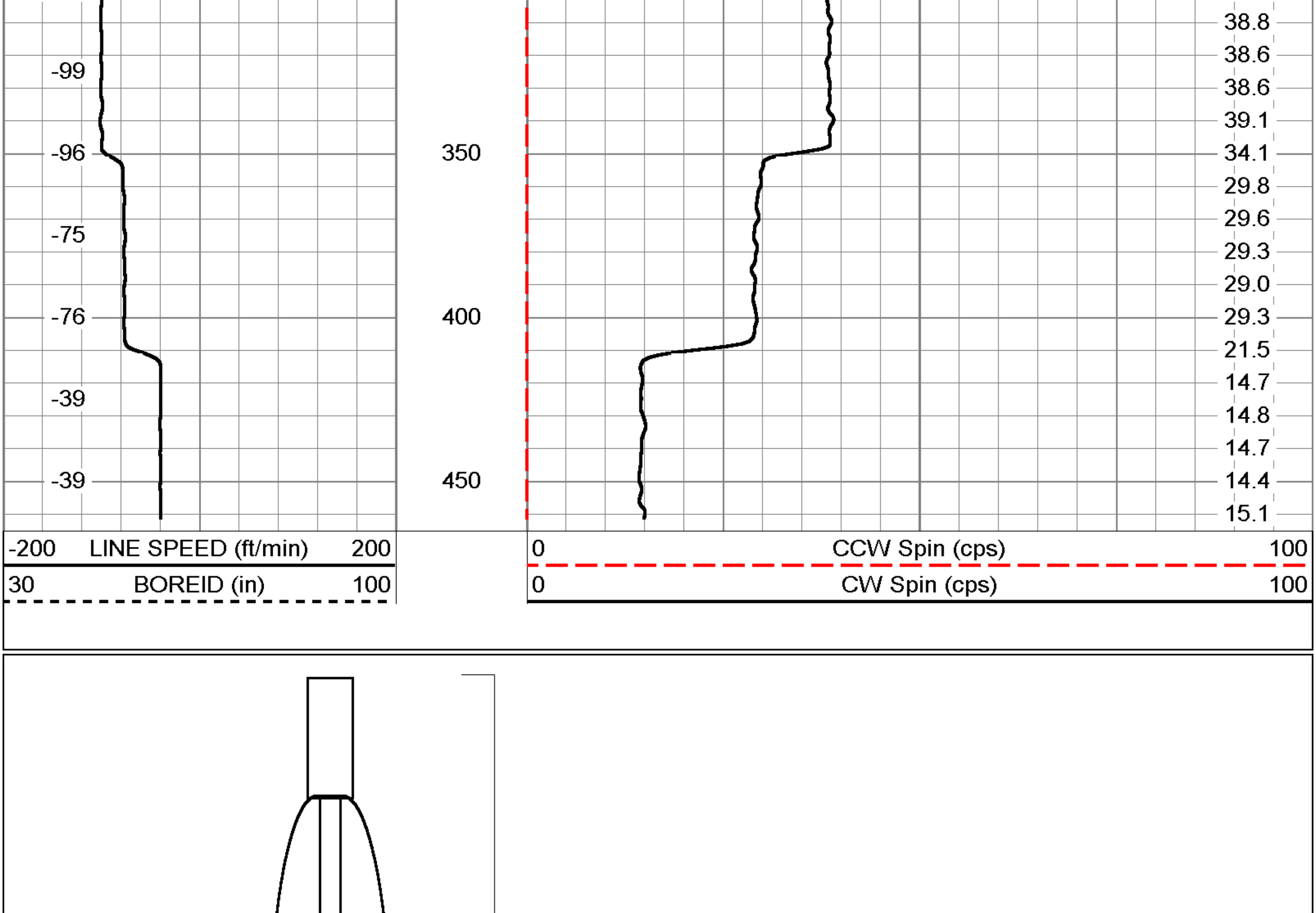
0	DYNAMIC LINE SPEED (ft/min)	00		0	DYNAMIC (cps)	150
0	STATIC LINE SPEED (ft/min)	200		0	STATIC (cps)	150
20	X-CALIPER (in)	10				
20	Y CALIPER (in)	10				
20	BIT SIZE (in)	10				

MV Geophysical

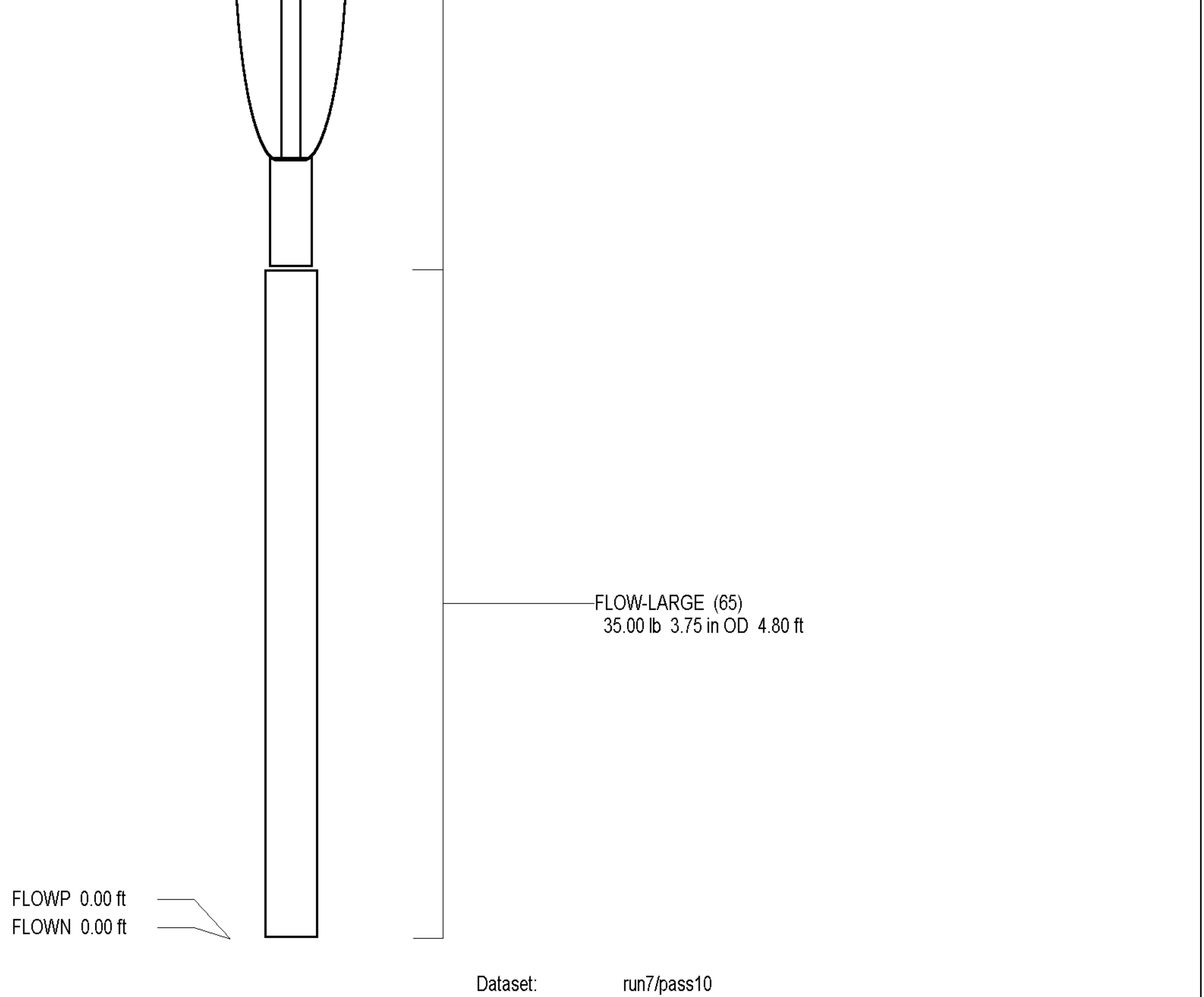
Q Calibration Down

Database File: ltp1.db
Dataset Pathname: run6/pass6
Presentation Format: FLOW
Dataset Creation: Fri Jul 08 23:20:45 2011 by Log VER_5.3
Charted by: Depth in Feet scaled 1:600

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



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



Dataset: run7/pass10
Total Length: 9.80 ft
Total Weight: 85.00 lb
O.D. 3.75 in

MV Geophysical

FLOWMETER LOG

Company	Layne Christensen Company		
Well	Turkey Point EW-1		
Field	Florida City		
County	Miami-Dade	State/Prv	Florida

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade
State/Prv Florida

Location
FPL Turkey Point Power Plant
LAT: 25 25' 19" N LONG: 80 20' 08" W
McNabb Hydrogeologic Consulting, Inc.

Other Services
XY/GR,FCT
DIL,BHC
FLO,TDS

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

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

Date	12-JUL-2011		
Run Number	SIX-e		
Depth Driller	1655'		
Depth Logger	1654'		
Bottom Logged Interval	1650'		
Top Log Interval	1475'		
Open Hole Size	12.25"		
Type Fluid	H2O		
Density / Viscosity	NA/NA		
Max. Recorded Temp.	see FCT log		
Estimated Cement Top	SURFACE		
Time Well Ready	18:15 7/12/2011		
Time Logger on Bottom	18:45 7/12/2011		
Equipment Number	MVGS-1		
Location	Ft. Myers		
Recorded By	S.Miller		
Witnessed By	S.Durall (MHC)	K.Greuel (LCC)	

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'				1655'
TWO	62.5"	SURFACE	259'				
THREE	12.25"	255'	1090'				
FOUR	52.5"	255'	1095'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String	54"	0.375" WT	SURFACE	255'
Production String	44"	0.375" WT	SURFACE	1090'
Liner				LTP1.db
Invoice No.	2011103	P.O. #:	8fld/las/pdf	* FINAL PRINT *

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Comments

STATIC and DYNAMIC down passes were made at 82 fpm.

NO station performed.

Q =~300 gpm

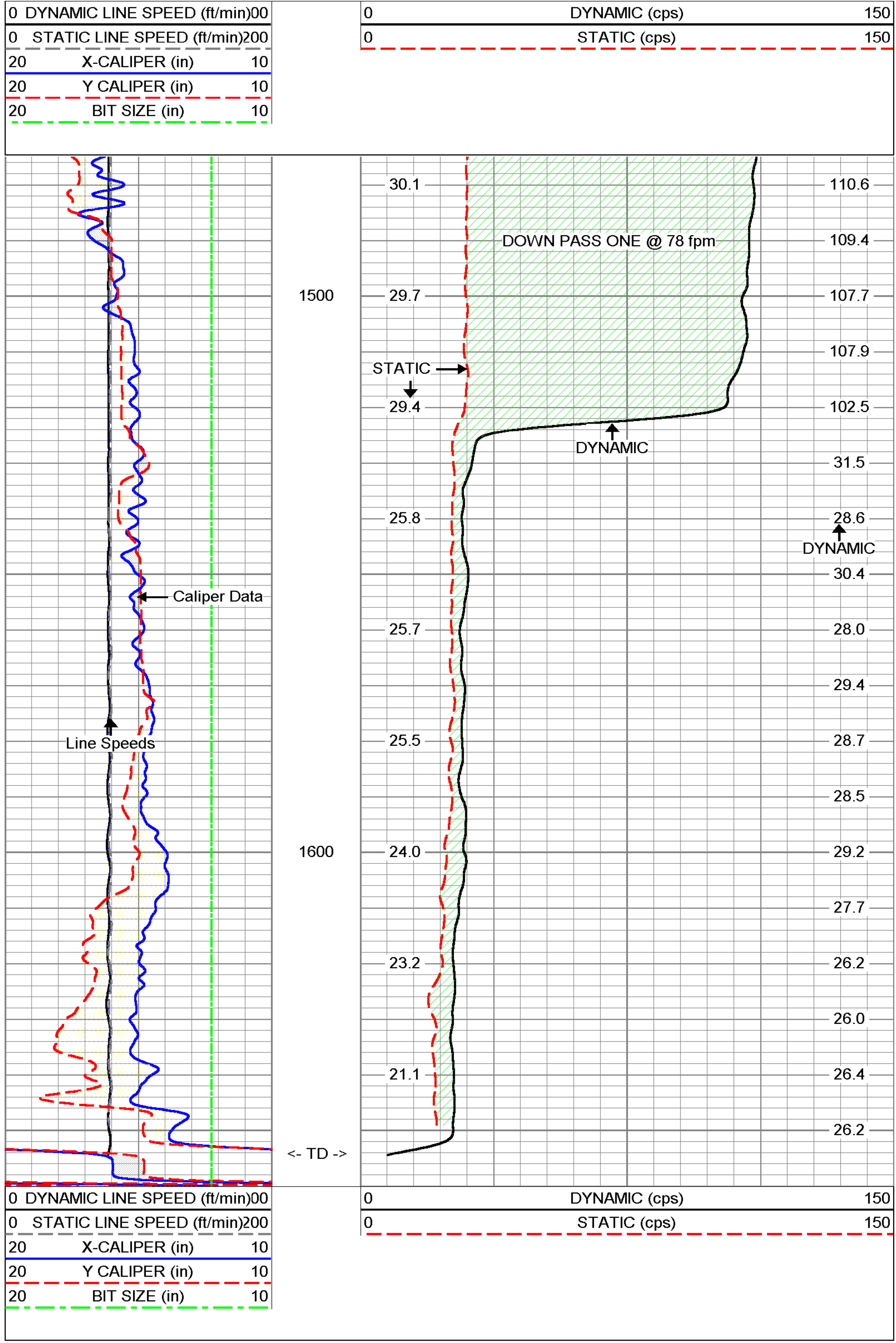
Drill Pipe set to 1524'

Full Riser / Hydraulic Packoff

MV Geophysical

S/D DOWN @ 78 fpm

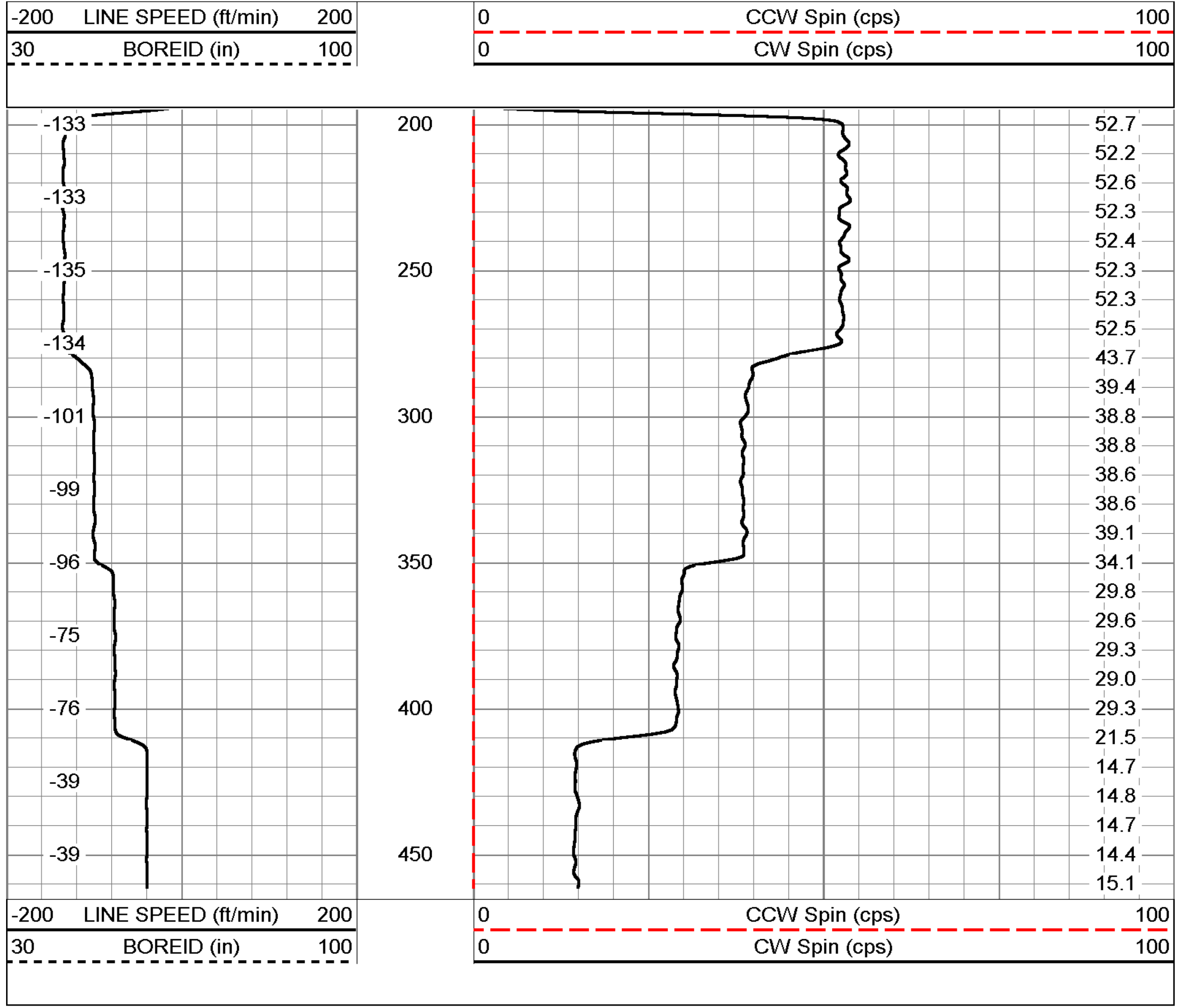
Database File: ltp1.db
Dataset Pathname: run7/SD78
Presentation Format: QTP1
Dataset Creation: Tue Jul 12 19:11:42 2011
Charted by: Depth in Feet scaled 1:240

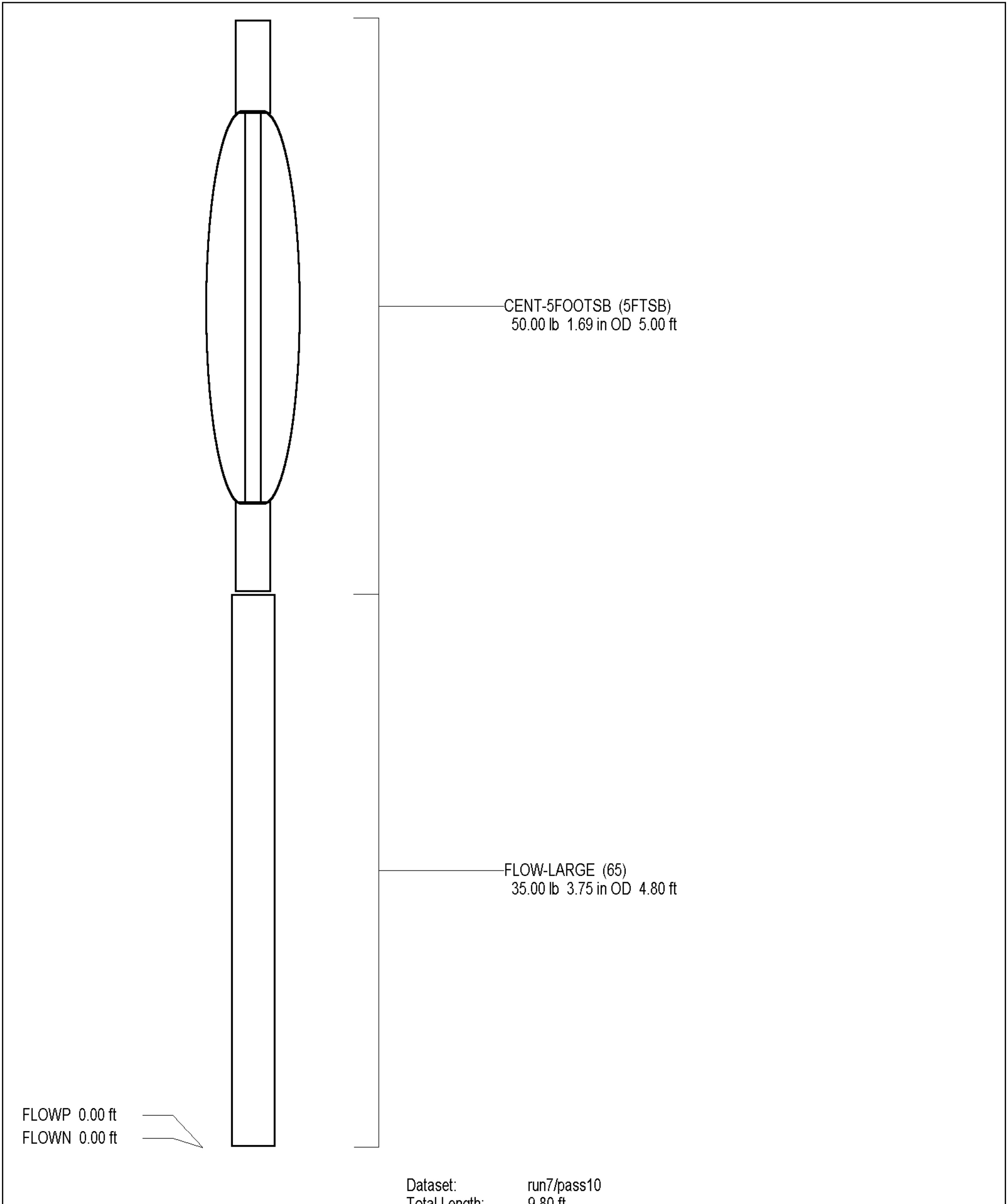


MV Geophysical

Q Calibration Down

Database File: ltp1.db
Dataset Pathname: run6/pass6
Presentation Format: FLOW
Dataset Creation: Fri Jul 08 23:20:45 2011 by Log VER_5.3
Charted by: Depth in Feet scaled 1:600





Dataset:	run7/pass10
Total Length:	9.80 ft
Total Weight:	85.00 lb
O.D.	3.75 in

MV Geophysical

TDS COMPILATION LOG

Company	Layne Christensen Company
Well	Turkey Point EW-1
Field	Florida City
County	Miami-Dade
State/Prv	Florida

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade State/Prv Florida

Location
FPL Turkey Point Power Plant
LAT: 25 25' 19" N LONG: 80 20' 08" W
McNabb Hydrogeologic Consulting, Inc.

Other Services
XY/GR,FCT
DIL,BHC
FLO,TDS

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

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

Date	12-JUL-2011	
Run Number	SIX-d	
Depth Driller	1655'	
Depth Logger	1654'	
Bottom Logged Interval	1654'	
Top Log Interval	1045'	
Open Hole Size	12.25"	
Type Fluid	H2O	
Density / Viscosity	NA/NA	
Max. Recorded Temp.	see FCT log	
Estimated Cement Top	SURFACE	
Time Well Ready	01:15 7/12/2011	
Time Logger on Bottom	03:00 7/12/2011 D	10:00 7/12/2011 S
Equipment Number	MVGS-1	
Location	Ft. Myers	
Recorded By	S.Miller	
Witnessed By	S.Durall (MHC)	K.Greuel (LCC)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'				1655'
TWO	62.5"	SURFACE	259'				
THREE	12.25"	255'	1090'				
FOUR	52.5"	255'	1095'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String	54"	0.375" WT	SURFACE	255'
Production String	44"	0.375" WT	SURFACE	1090'
Liner				LTP1.db
Invoice No.	2011102	P.O. #:	8fid/las/pdf	* FINAL PRINT *

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Comments

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

Drill Pipe set to 1098'

MV Geophysical

MAIN PASS

Database File: ltp1.db
Dataset Pathname: run7/MAIN
Presentation Format: TDSPC3
Dataset Creation: Tue Jul 12 02:36:16 2011
Charted by: Depth in Feet scaled 1:240

240	Delta T (usec/ft)	40
100	spor (pu)	0
35	XCAL (in)	5
35	YCAL (in)	5
0	Gamma Ray (GAPI)	100

100	TDS (ppm)	10000
10000	TDS (ppm)	1e+006

0	RLL3 (Ohm-m)	100
0	RILM (Ohm-m)	100
0	RILD (Ohm-m)	100

240	Delta T (usec/ft)	40
100	spor (pu)	0
35	XCAL (in)	5
35	YCAL (in)	5
0	Gamma Ray (GAPI)	100

100	TDS (ppm)	10000
10000	TDS (ppm)	1e+006

0	RLL3 (Ohm-m)	100
0	RILM (Ohm-m)	100
0	RILD (Ohm-m)	100

MV Geophysical

X-Y CALIPER GAMMA RAY LOG

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade
State/Prv Florida

Company	Layne Christensen Company
Well	Turkey Point EW-1
Field	Florida City
County	Miami-Dade
State/Prv	Florida

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade State/Prv Florida

Location
FPL Turkey Point Power Plant
LAT: 25 25' 19" N LONG: 80 20' 08" W
McNabb Hydrogeologic Consulting, Inc.

Other Services
XY/GR,FCT
DIL,BHC
FLO,TDS

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

Date	12-JUL-2011		
Run Number	SIX-d		
Depth Driller	1655'		
Depth Logger	1654'		
Bottom Logged Interval	1654'		
Top Log Interval	1045'		
Open Hole Size	12.25"		
Type Fluid	H2O		
Density / Viscosity	NA/NA		
Max. Recorded Temp.	see FCT log		
Estimated Cement Top	SURFACE		
Time Well Ready	01:15 7/12/2011		
Time Logger on Bottom	01:45 7/12/2011		
Equipment Number	MVGS-1		
Location	Ft. Myers		
Recorded By	S.Miller		
Witnessed By	S.Durall (MHC)	K.Greuel (LCC)	

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'				1655'
TWO	62.5"	SURFACE	259'				
THREE	12.25"	255'	1090'				
FOUR	52.5"	255'	1095'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String	54"	0.375" WT	SURFACE	255'
Production String	44"	0.375" WT	SURFACE	1090'
Liner				LTP1.db
Invoice No.	2011102	P.O. #:	8fld/las/pdf	* FINAL PRINT *

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Comments

MAXIMUM Caliper Arm Extensions: 33"

BOREHOLE VOLUMES IN CUBIC FEET

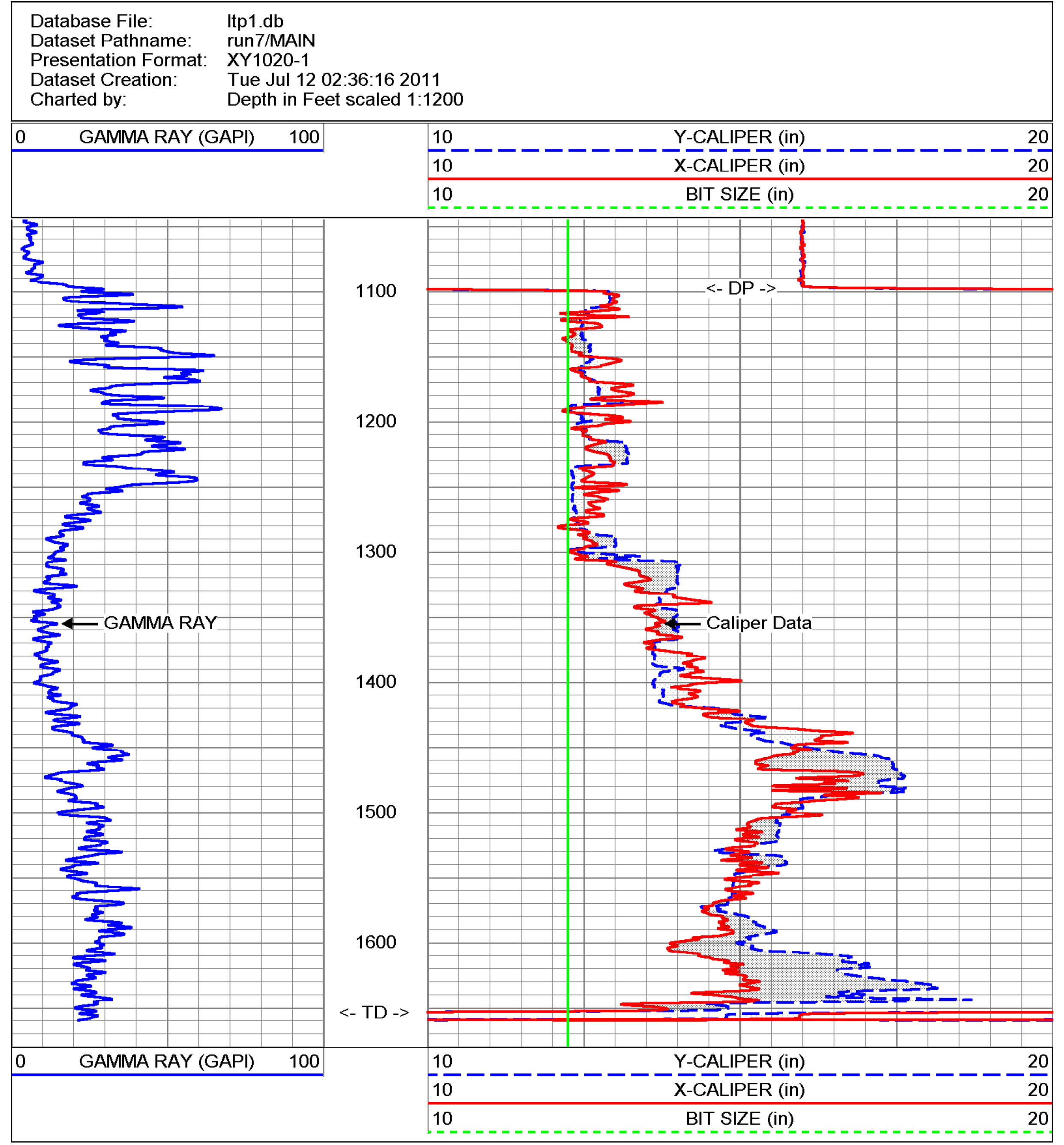
Drill Pipe set to 1098'

Full Riser / Hydraulic Packoff

MV Geophysical

MAIN PASS

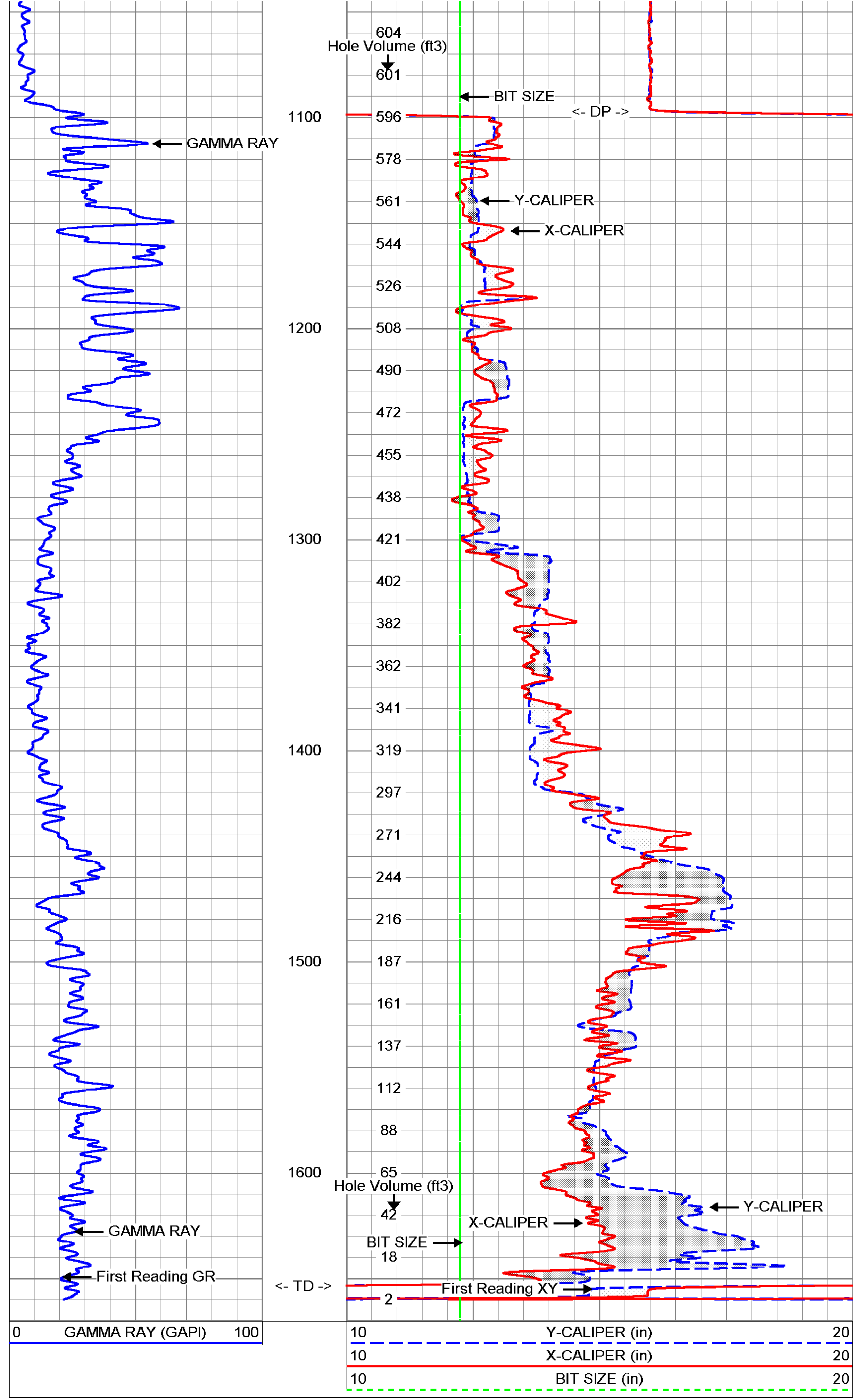
Database File: ltp1.db
Dataset Pathname: run7/MAIN
Presentation Format: XY1020-1
Dataset Creation: Tue Jul 12 02:36:16 2011
Charted by: Depth in Feet scaled 1:1200



MV Geophysical

MAIN PASS

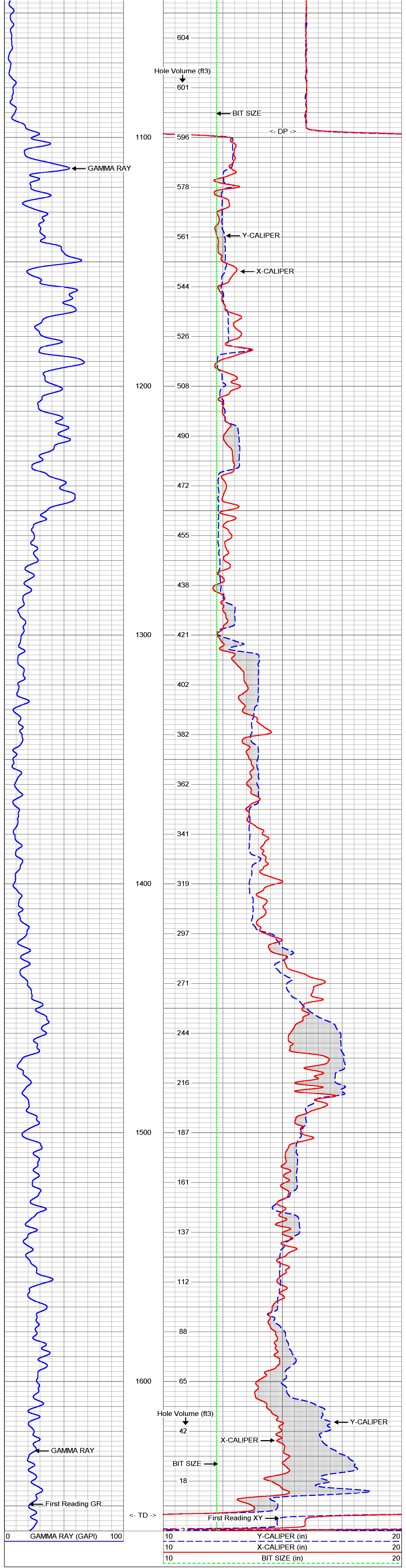
Database File: ltp1.db
Dataset Pathname: run7/MAIN
Presentation Format: XY1020-5
Dataset Creation: Tue Jul 12 02:36:16 2011
Charted by: Depth in Feet scaled 1:600



MV Geophysical

MAIN PASS

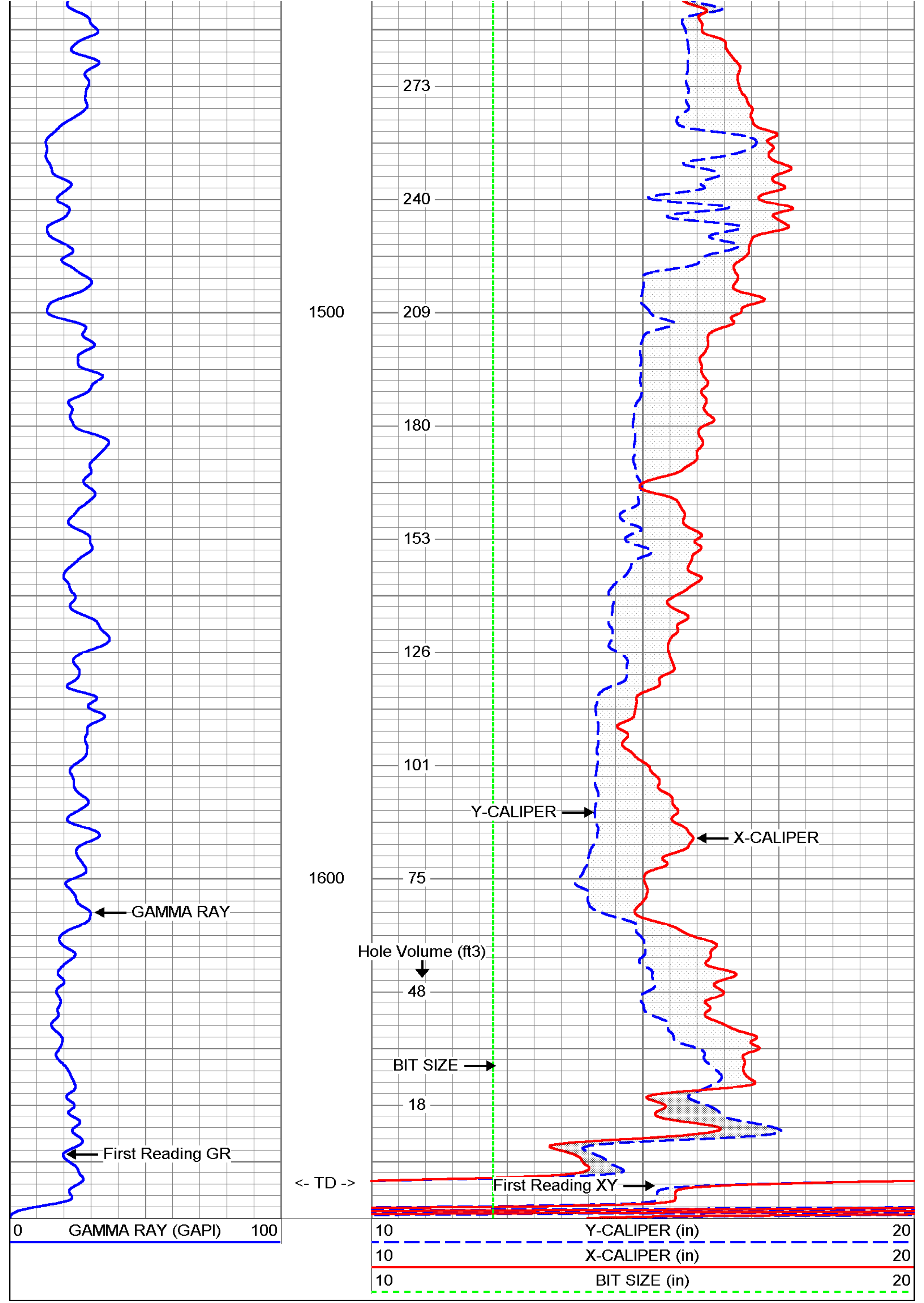
Database File: ltp1.db
Dataset Pathname: run7/MAIN
Presentation Format: XY1020-5
Dataset Creation: Tue Jul 12 02:36:16 2011
Charted by: Depth in Feet scaled 1:240



MV Geophysical

REPEAT SECTION

Database File: ltp1.db
Dataset Pathname: run7/repeat
Presentation Format: XY1020-5
Dataset Creation: Tue Jul 12 02:40:15 2011
Charted by: Depth in Feet scaled 1:240

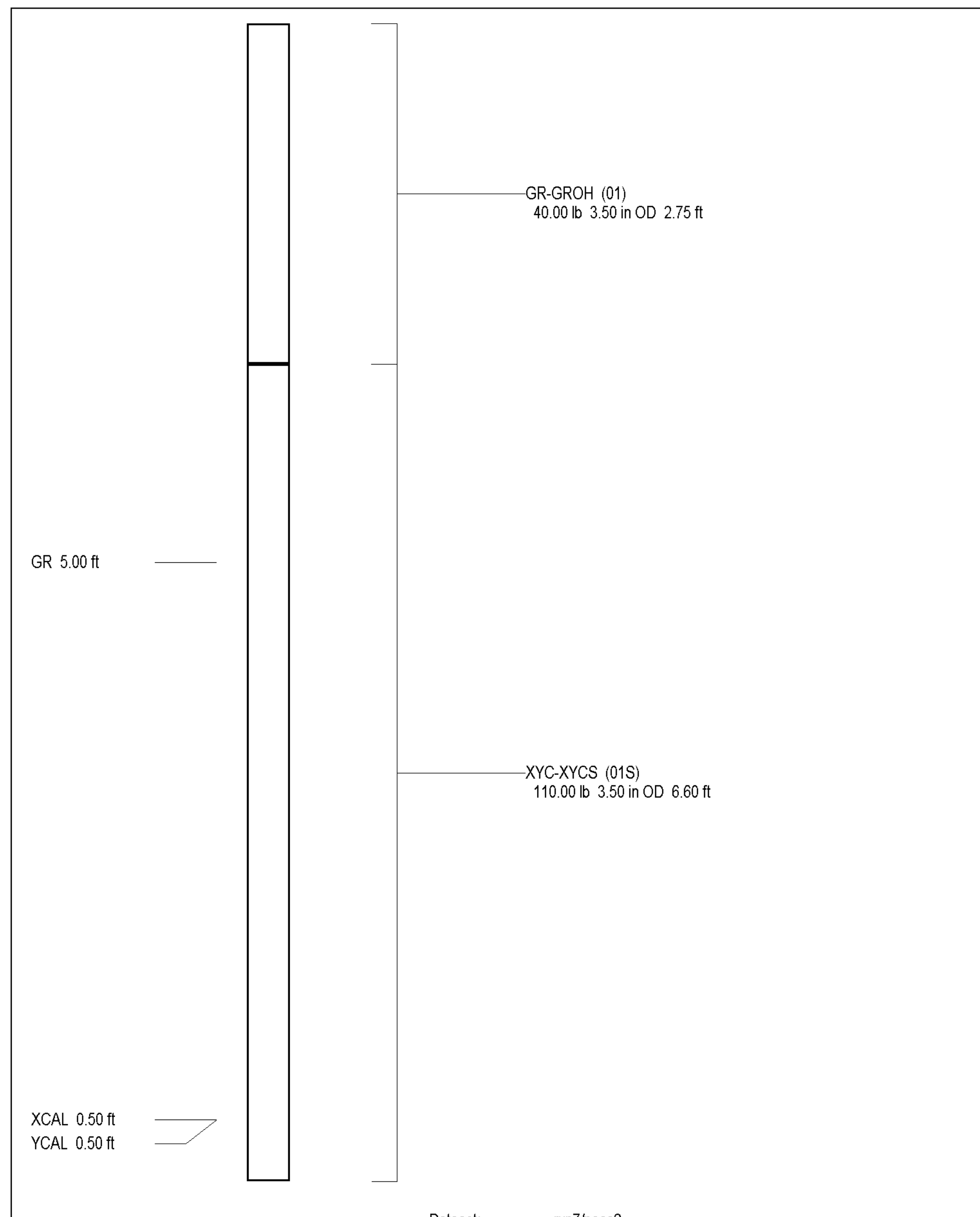


XY Caliper Calibration Report

Serial Number:	01S		
Tool Model:	XYCS		
Performed:	Tue Jul 12 02:16:20 2011		
Small Ring:	12.25	in	
Large Ring:	33	in	
	X Caliper	Y Caliper	
Reading with Small Ring:	729.2	754	cps
Reading with Large Ring:	1113	1072	cps
Gain:	0.0540646	0.0652516	
Offset:	-27.1739	-36.9497	

Gamma Ray Calibration Report

Serial Number:	01	
Tool Model:	GROH	
Performed:	Wed Jul 06 18:44:54 2011	
Calibrator Value:	120	GAPI
Background Reading:	14.214	cps
Calibrator Reading:	131.667	cps
Sensitivity:	1.02169	GAPI/cps



GR-GROH (01) 40.00 lb 3.50 in OD 2.75 ft
XYC-XYCS (01S) 110.00 lb 3.50 in OD 6.60 ft
GR 5.00 ft
XCAL 0.50 ft
YCAL 0.50 ft

Dataset: run7/pass2
Total Length: 9.35 ft
Total Weight: 150.00 lb
O.D. 3.50 in

MV Geophysical

X-Y CALIPER GAMMA RAY LOG

Company	Layne Christensen Company
Well	Turkey Point EW-1
Field	Florida City
County	Miami-Dade
State/Prv	Florida

Company	Layne Christensen Company	
Well	Turkey Point EW-1	
Field	Florida City	
County	Miami-Dade	State/Prv Florida
Location	FPL Turkey Point Power Plant LAT: 25 25' 19" N LONG: 80 20' 08" W McNabb Hydrogeologic Consulting, Inc.	Other Services XY/GR
Permanent Datum	Pad Level	Elevation
Log Measured From	Pad Level	Elevation K.B. D.F. G.L.
Drilling Measured From	Pad Level	

Date	1-AUG-2011	
Run Number	SEVEN	
Depth Driller	1542'	
Depth Logger	1542'	
Bottom Logged Interval	1540'	
Top Log Interval	995'	
Open Hole Size	12.25"	
Type Fluid	H2O	
Density / Viscosity	NA/NA	
Max. Recorded Temp.	see FCT log	
Estimated Cement Top	SURFACE	
Time Well Ready	01:15 8/1/2011	
Time Logger on Bottom	01:15 8/1/2011	
Equipment Number	MVGS-1	
Location	Ft. Myers	
Recorded By	S.Miller/C.Miller	
Witnessed By	M.McNeal (ASR)	C.Ferguson (LCC)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'	FIVE	12.25"	1090'	1655'
TWO	62.5"	SURFACE	259'	SIX	42.5"	1090'	1542'
THREE	12.25"	255'	1090'				
FOUR	52.5"	255'	1095'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String	54"	0.375" WT	SURFACE	255'
Production String	44"	0.375" WT	SURFACE	1090'
Liner			LTP1.db	1087'

Invoice No.	2011124	P.O. #:	8fld/las/pdf	* FINAL PRINT *

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Comments

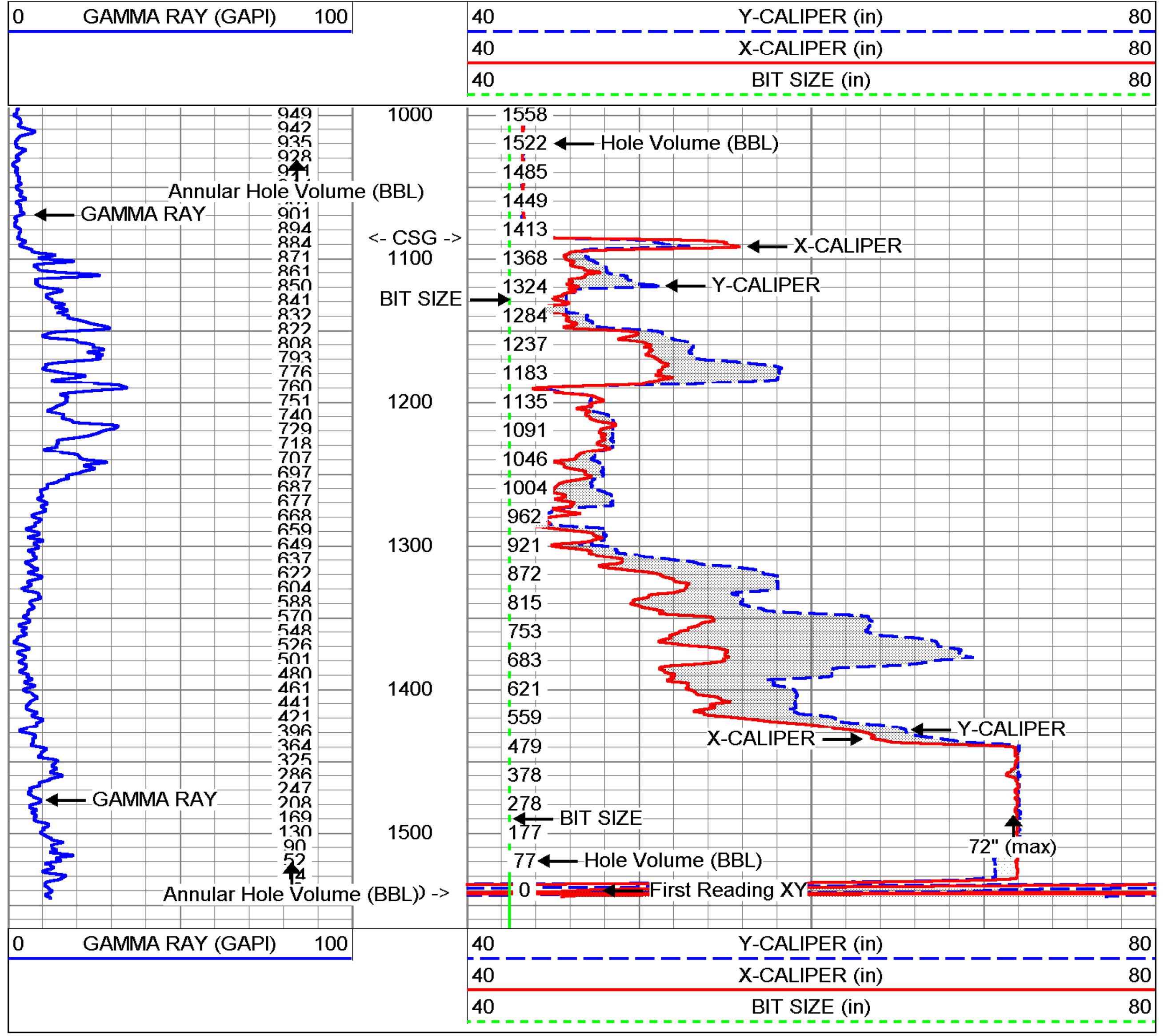
MAXIMUM Caliper Arm Extensions: 51"

BOREHOLE VOLUMES IN BARRELS

MV Geophysical

MAIN PASS - 72" ARM

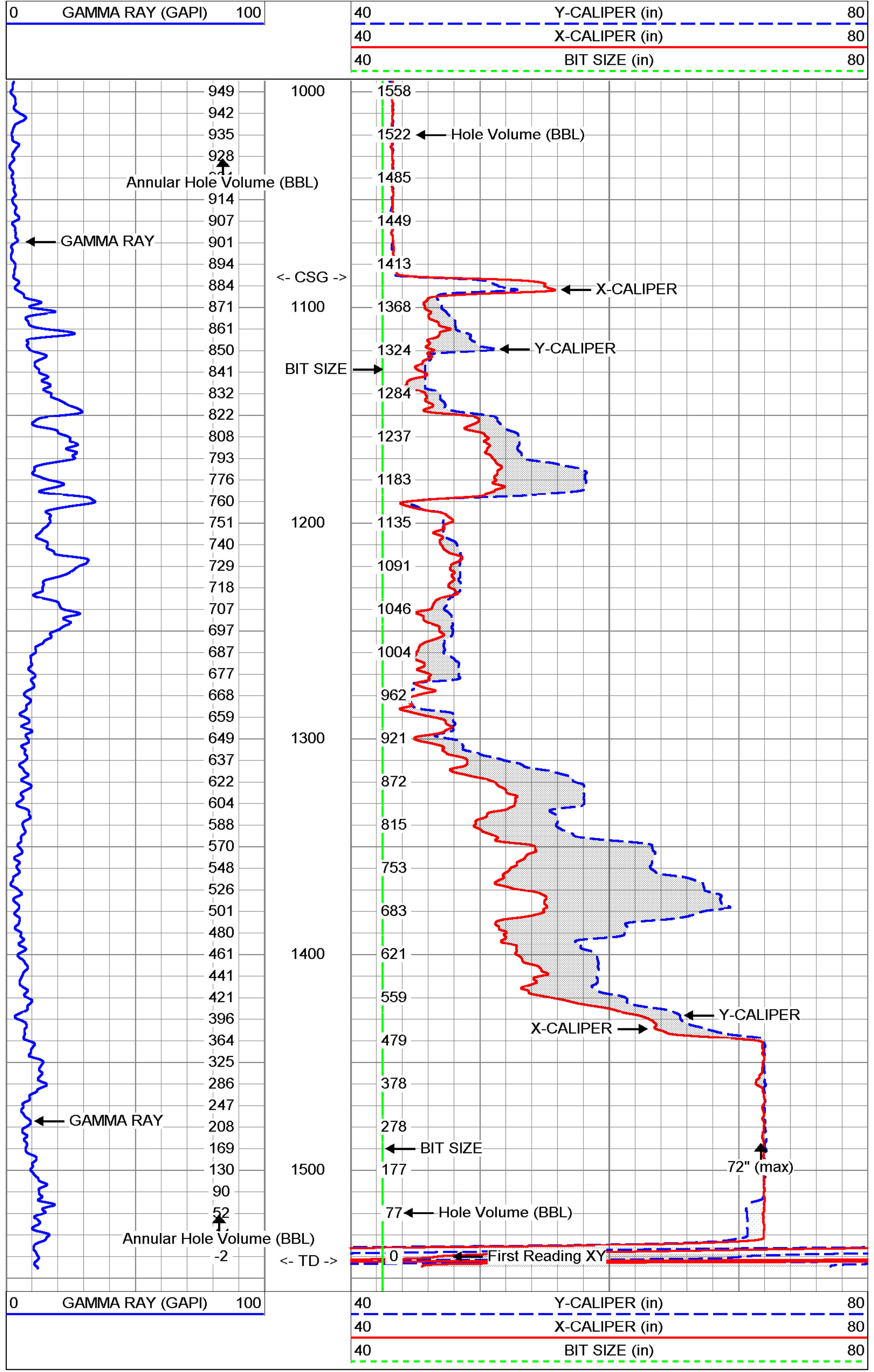
Database File: ltp1.db
Dataset Pathname: run8/mAIN
Presentation Format: XY4080B5
Dataset Creation: Mon Aug 01 02:37:11 2011
Charted by: Depth in Feet scaled 1:1200



MV Geophysical

MAIN PASS - 72" ARM

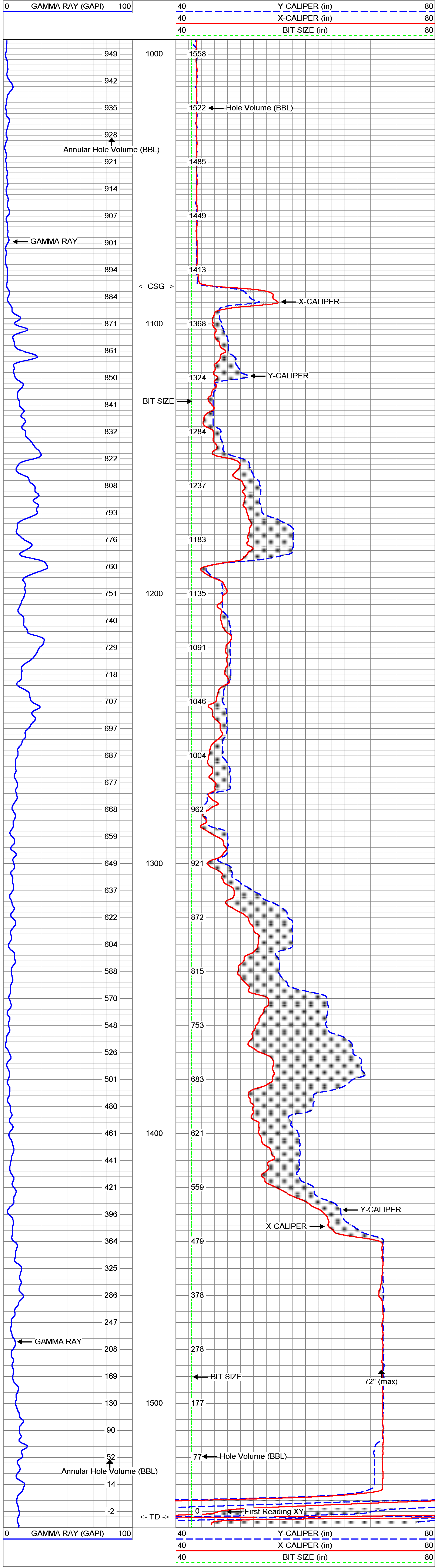
Database File: ltp1.db
Dataset Pathname: run8/mAIN
Presentation Format: XY4080B5
Dataset Creation: Mon Aug 01 02:37:11 2011
Charted by: Depth in Feet scaled 1:600



MV Geophysical

MAIN PASS - 72" ARM

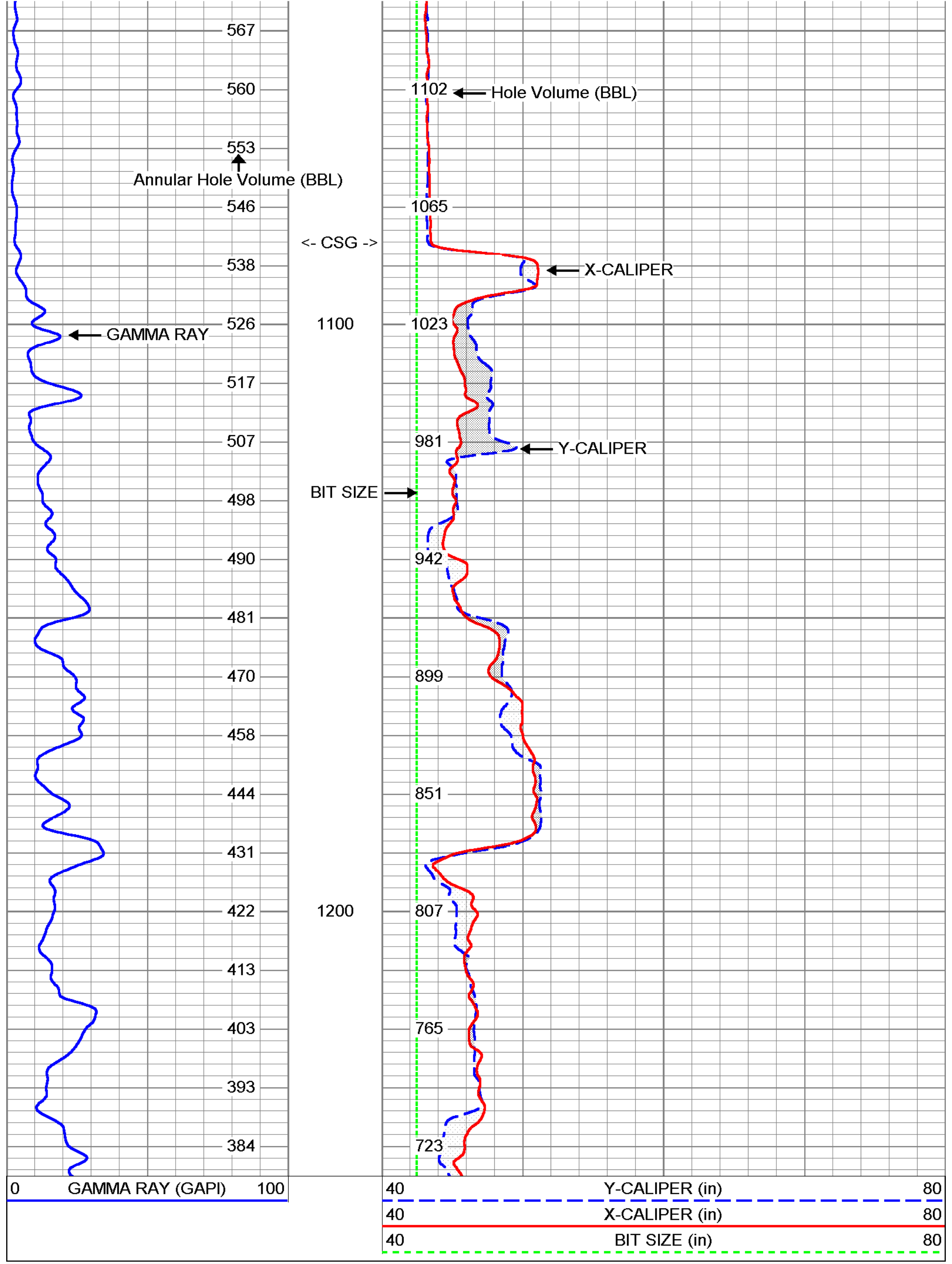
Database File: ltp1.db
Dataset Pathname: run8/mAIN
Presentation Format: XY4080B5
Dataset Creation: Mon Aug 01 02:37:11 2011
Charted by: Depth in Feet scaled 1:240



MV Geophysical

REPEAT SECTION - 51" ARM

Database File: ltp1.db
Dataset Pathname: run8/REPEAT
Presentation Format: XY4080B5
Dataset Creation: Mon Aug 01 02:48:11 2011
Charted by: Depth in Feet scaled 1:240

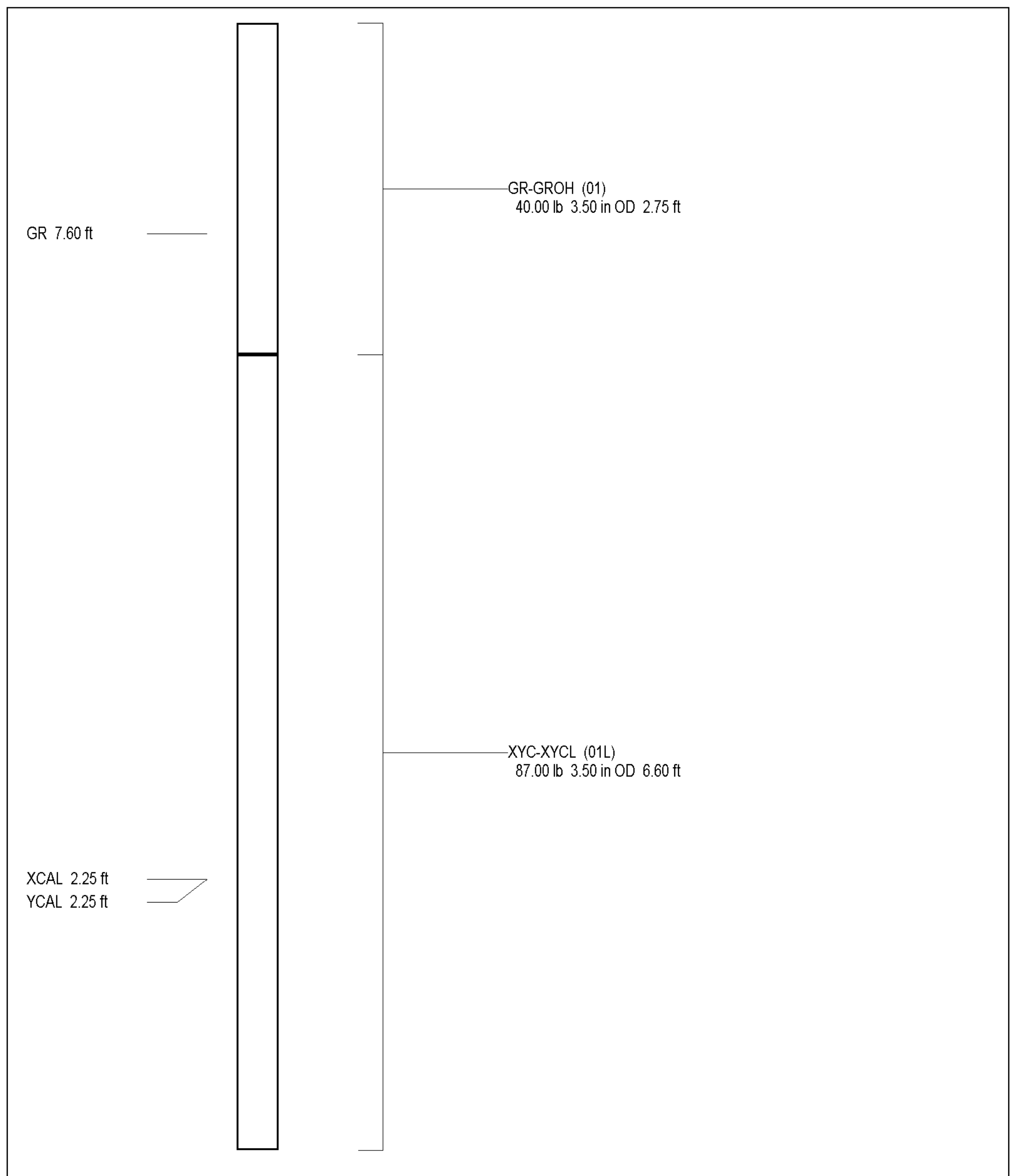


XY Caliper Calibration Report

Serial Number:	01L		
Tool Model:	XYCL		
Performed:	Mon Aug 01 01:48:19 2011		
Small Ring:	43.25	in	
Large Ring:	72	in	
	X Caliper	Y Caliper	
Reading with Small Ring:	917.1	919	cps
Reading with Large Ring:	1141	1078	cps
Gain:	0.128406	0.180818	
Offset:	-74.5107	-122.921	

Gamma Ray Calibration Report

Serial Number:	01	
Tool Model:	GROH	
Performed:	Thu Jul 28 17:00:34 2011	
Calibrator Value:	120	GAPI
Background Reading:	14.711	cps
Calibrator Reading:	132.666	cps
Sensitivity:	1.01734	GAPI/cps



Dataset: run8/pass2
Total Length: 9.35 ft
Total Weight: 127.00 lb
O.D. 3.50 in

MV Geophysical

CEMENT TOP LOG
HIGH RESOLUTION
TEMPERATURE
GAMMA RAY

Company	Layne Christensen Company
Well	Turkey Point EW-1
Field	Florida City
County	Miami-Dade
State/Prv	Florida

Company	Layne Christensen Company
Well	Turkey Point EW-1
Field	Florida City
County	Miami-Dade State/Prv Florida
Location	FPL Turkey Point Power Plant LAT: 25 25' 19" N LONG: 80 20' 08" W McNabb Hydrogeologic Consulting, Inc.
Other Services	NONE

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

Date	5-AUG-2011		
Run Number	EIGHT-A		
Depth Driller	1531' CMT PLG		
Depth Logger	1518'		
Bottom Logged Interval	1518'		
Top Log Interval	SURFACE		
Open Hole Size	42.5"		
Type Fluid	H2O		
Density / Viscosity	NA/NA		
Max. Recorded Temp.	see FCT log		
Estimated Cement Top	SURFACE		
Time Well Ready	23:00 8/5/2011		
Time Logger on Bottom	23:30 8/5/2011		
Equipment Number	MVGS-1		
Location	Ft. Myers		
Recorded By	S.Miller/C.Miller		
Witnessed By	S.Durall (MHC)	K.Greuel (LCC)	

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'	FIVE	12.25"	1090'	1655'
TWO	62.5"	SURFACE	259'	SIX	42.5"	1090'	1542'
THREE	12.25"	255'	1090'				
FOUR	52.5"	255'	1095'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String	54"	0.375" WT	SURFACE	255'
Production String	44"	0.375" WT	SURFACE	1090'
Liner	34"	0.375" WT	SURFACE	1535'
Invoice No.	2011138	LTP1.db	8fld/las/pdf	* FINAL PRINT *

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Comments

CEMENT TOP LOG

STAGE	TOP	TAG	STAGE	TOP	TAG
1	1458'	xxxx'	2	xxxx'	xxxx'
3	xxx'	xxx'	4	xxx'	xxx'
5	xxx'	xxx'	6	xxx'	xxx'

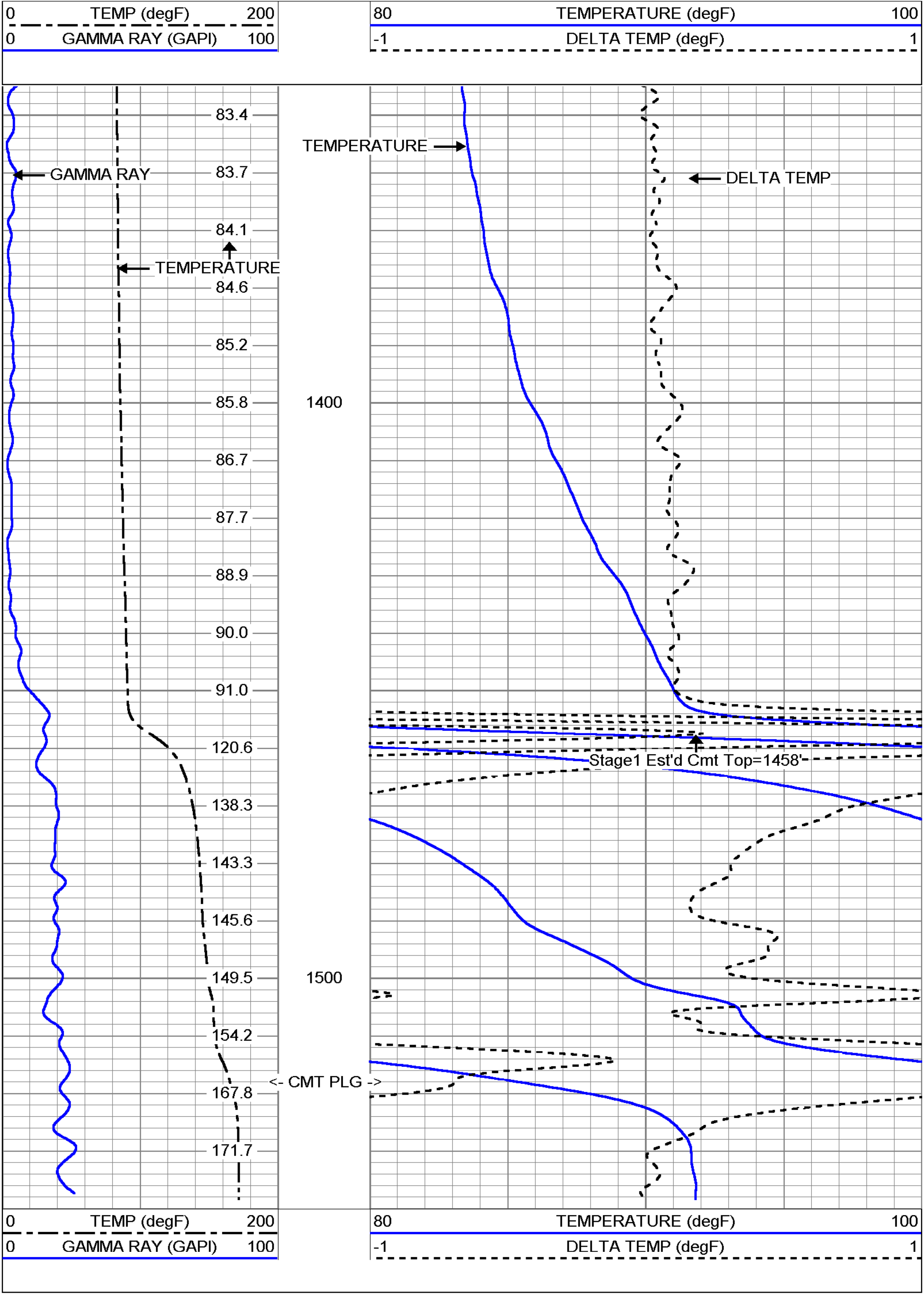
TEMPERATURE CALIBRATION REPORT (Performed: 19-JUL-11 09:15)

DEG-F	CPS
38.5	147.851
148.8	2690.21

MV Geophysical

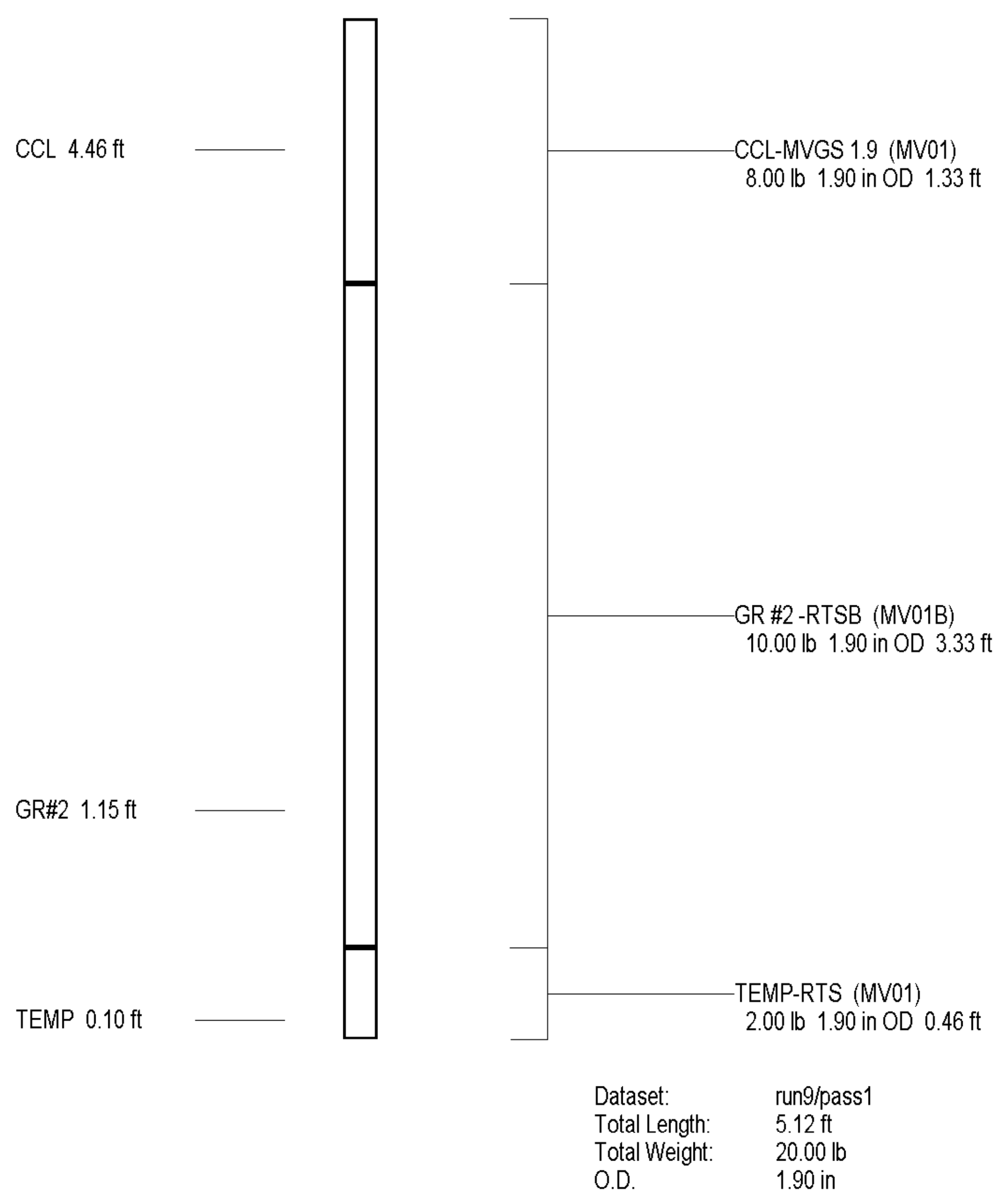
Stage1 Est'dCmtTop=1458'

Database File:	ltp1.db
Dataset Pathname:	run9/pass2
Presentation Format:	CTLCC-1
Dataset Creation:	Fri Aug 05 23:30:49 2011 by Log VER_5.3
Charted by:	Depth in Feet scaled 1:240



Gamma Ray Calibration Report

Serial Number:	MV01B	
Tool Model:	RTSB	
Performed:	Fri Aug 05 23:13:40 2011	
Calibrator Value:	120	GAPI
Background Reading:	21.934	cps
Calibrator Reading:	157.494	cps
Sensitivity:	0.885217	GAPI/cps



Dataset:	run9/pass1
Total Length:	5.12 ft
Total Weight:	20.00 lb
O.D.	1.90 in

MV Geophysical

CEMENT TOP LOG
HIGH RESOLUTION
TEMPERATURE
GAMMA RAY

Company	Layne Christensen Company
Well	Turkey Point EW-1
Field	Florida City
County	Miami-Dade
State/Prv	Florida

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade State/Prv Florida
Location FPL Turkey Point Power Plant
LAT: 25 25' 19" N LONG: 80 20' 08" W
McNabb Hydrogeologic Consulting, Inc.

Other Services
NONE

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

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

Date	5-AUG-2011	12:30 8/6/2011 8b	
Run Number	EIGHT-A	1228'	
Depth Driller	1531' CMT PLG		
Depth Logger	1518'		
Bottom Logged Interval	1518'		
Top Log Interval	SURFACE		
Open Hole Size	42.5"		
Type Fluid	H2O		
Density / Viscosity	NA/NA		
Max. Recorded Temp.	see FCT log		
Estimated Cement Top	SURFACE		
Time Well Ready	23:00 8/5/2011		
Time Logger on Bottom	23:30 8/5/2011		
Equipment Number	MVGS-1		
Location	Ft. Myers		
Recorded By	S.Miller/C.Miller		
Witnessed By	S.Durall (MHC)	K.Greuel (LCC)	D.Daigle (ASRus)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'	FIVE	12.25"	1090'	1655'
TWO	62.5"	SURFACE	259'	SIX	42.5"	1090'	1542'
THREE	12.25"	255'	1090'				
FOUR	52.5"	255'	1095'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String	54"	0.375" WT	SURFACE	255'
Production String	44"	0.375" WT	SURFACE	1090'
Liner	34"	0.375" WT	SURFACE	1535'
Invoice No.	2011138-139	LTP1.db	8fd/las/pdf	* FINAL PRINT *

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Comments

CEMENT TOP LOG

STAGE	TOP	TAG	STAGE	TOP	TAG
1	1458'	1467'	2	1228'	xxxx'
3	xxx'	xxx'	4	xxx'	xxx'
5	xxx'	xxx'	6	xxx'	xxx'

TEMPERATURE CALIBRATION REPORT (Performed: 19-JUL-11 09:15)

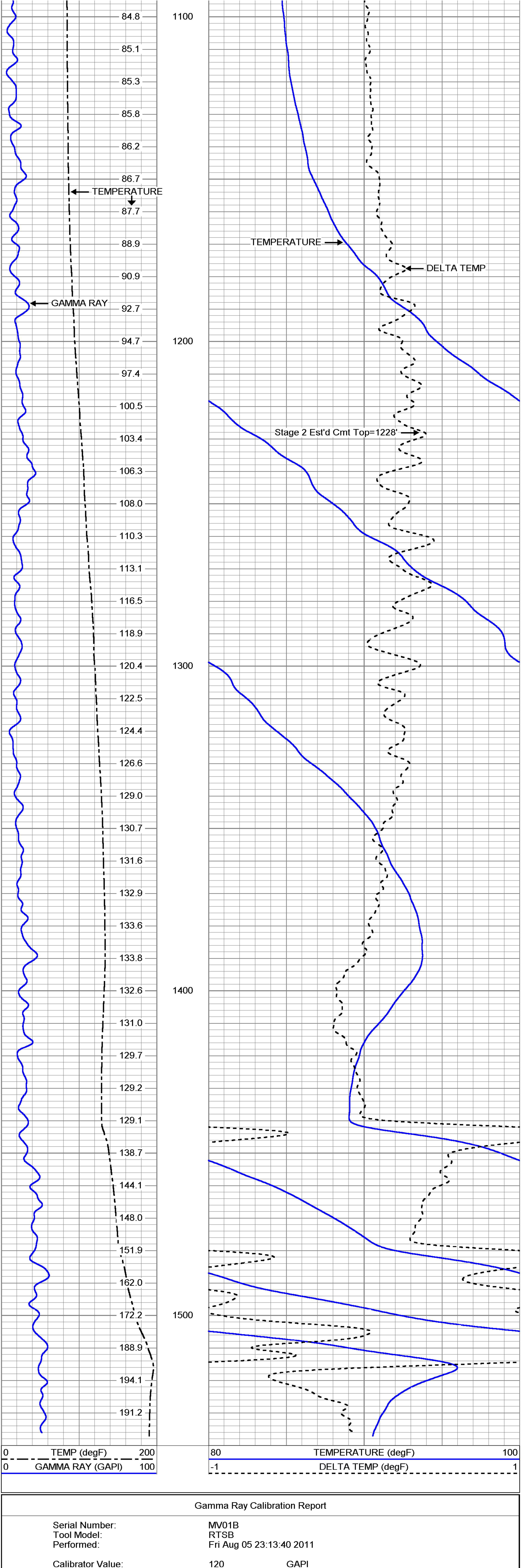
DEG-F	CPS
38.5	147.851
148.8	2690.21

MV Geophysical

Stage2 Est'dCmtTop=1228'

Database File: ltp1.db
Dataset Pathname: run9/stage2
Presentation Format: CTLCC-1
Dataset Creation: Sat Aug 06 12:29:45 2011
Charted by: Depth in Feet scaled 1:240

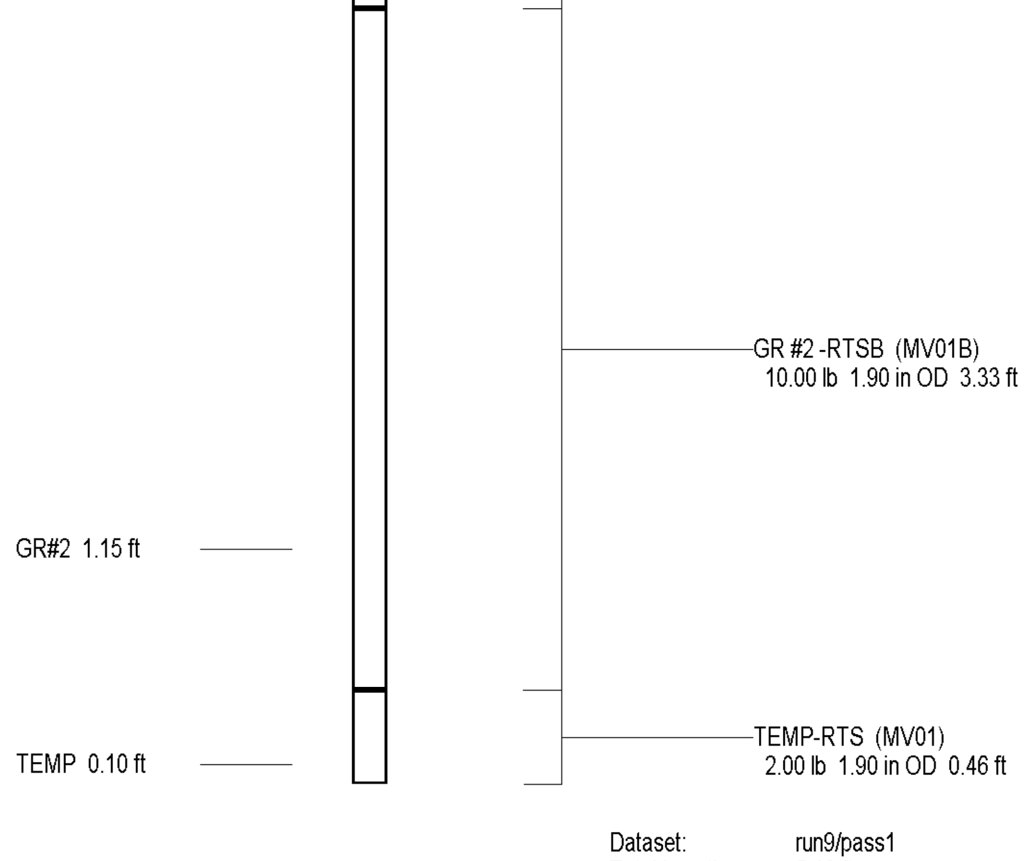
0 TEMP (degF) 200
0 GAMMA RAY (GAPI) 100
80 TEMPERATURE (degF) 100
-1 DELTA TEMP (degF) 1



0 TEMP (degF) 200
0 GAMMA RAY (GAPI) 100
80 TEMPERATURE (degF) 100
-1 DELTA TEMP (degF) 1

Gamma Ray Calibration Report

Serial Number:	MV01B	
Tool Model:	RTSB	
Performed:	Fri Aug 05 23:13:40 2011	
Calibrator Value:	120	GAPI
Background Reading:	21.934	cps
Calibrator Reading:	157.494	cps
Sensitivity:	0.885217	GAPI/cps



Dataset: run9/pass1
Total Length: 5.12 ft
Total Weight: 20.00 lb
O.D. 1.90 in

MV Geophysical

CEMENT TOP LOG
HIGH RESOLUTION
TEMPERATURE
GAMMA RAY

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade
State/Prv Florida

Company	Layne Christensen Company
Well	Turkey Point EW-1
Field	Florida City
County	Miami-Dade
State/Prv	Florida
Location	FPL Turkey Point Power Plant LAT: 25 25' 19" N LONG: 80 20' 08" W McNabb Hydrogeologic Consulting, Inc.
Other Services	NONE

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

Date	5-AUG-2011	12:30 8/6/2011 8b	
Run Number	EIGHT-A	1228'	
Depth Driller	1531' CMT PLG	01:15 8/7/2011 8c	
Depth Logger	1518'	1012'	
Bottom Logged Interval	1518'		
Top Log Interval	SURFACE		
Open Hole Size	42.5"		
Type Fluid	H2O		
Density / Viscosity	NA NA		
Max. Recorded Temp.	see FCT log		
Estimated Cement Top	SURFACE		
Time Well Ready	23:00 8/5/2011		
Time Logger on Bottom	23:30 8/5/2011		
Equipment Number	MVGS-1		
Location	Ft. Myers		
Recorded By	S.Miller/C.Miller		
Witnessed By	S.Durall (MHC)	K.Greuel (LCC)	D.Daigle (ASRus)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'	FIVE	12.25"	1090'	1655'
TWO	62.5"	SURFACE	259'	SIX	42.5"	1090'	1542'
THREE	12.25"	255'	1090'				
FOUR	52.5"	255'	1095'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String	54"	0.375" WT	SURFACE	255'
Production String	44"	0.375" WT	SURFACE	1090'
Liner	34"	0.375" WT	SURFACE	1535'
Invoice No.	2011138-140	LTP1.db	8fld/las/pdf	* FINAL PRINT *

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Comments

CEMENT TOP LOG

STAGE	TOP	TAG	STAGE	TOP	TAG
1	1458'	1467'	2	1228'	1257'
3	1012'	1016'	4	xxx'	xxx'
5	xxx'	xxx'	6	xxx'	xxx'

TEMPERATURE CALIBRATION REPORT (Performed: 19-JUL-11 09:15)

DEG-F	CPS
38.5	147.851
148.8	2690.21

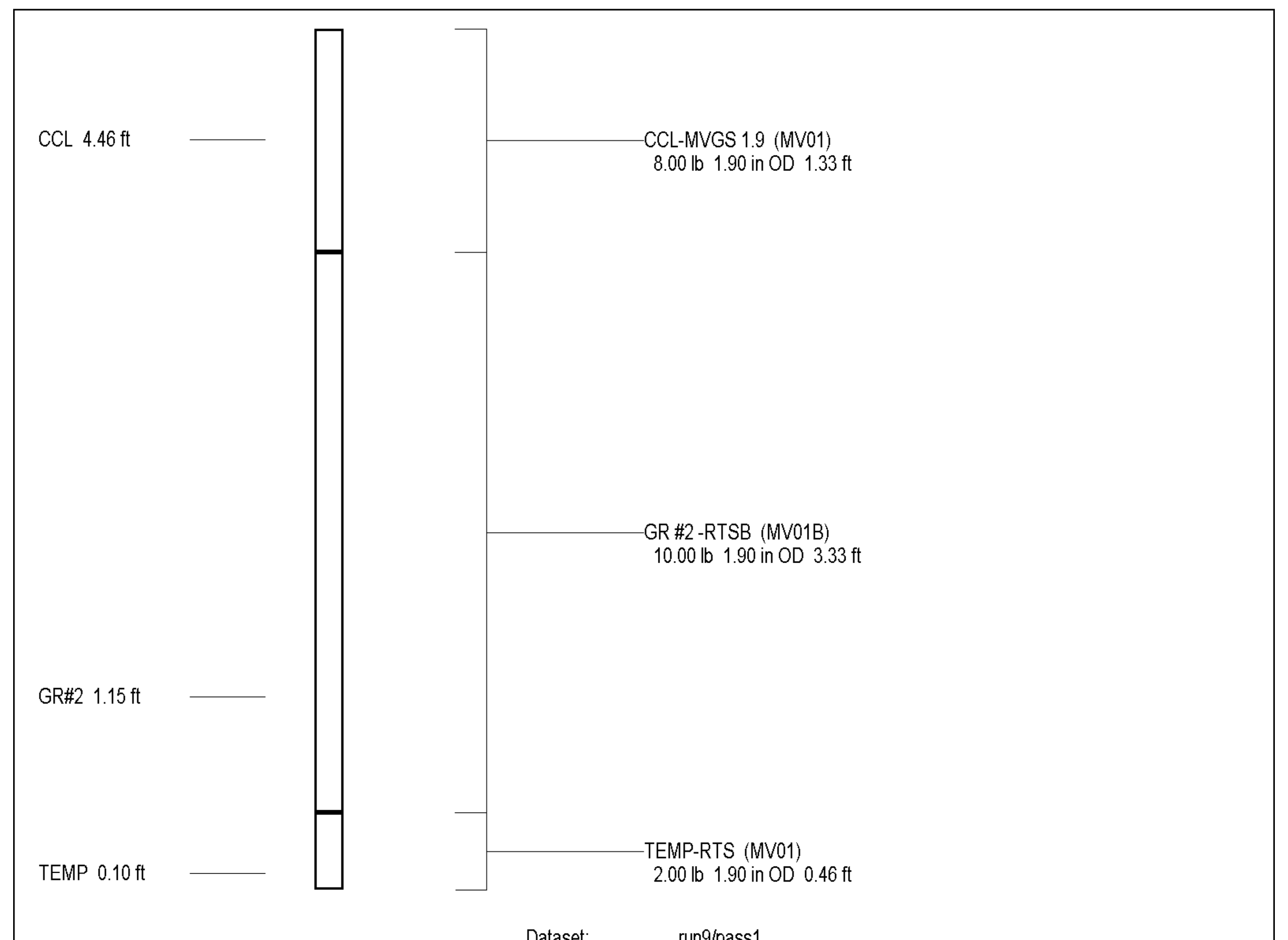
MV Geophysical

Stage3 Est'dCmtTop=1012'

Database File:	ltp1.db
Dataset Pathname:	run9/pass3
Presentation Format:	CTLCC-1
Dataset Creation:	Sun Aug 07 01:09:06 2011 by Log VER_5.3
Charted by:	Depth in Feet scaled 1:240

Gamma Ray Calibration Report

Serial Number:	MV01B	
Tool Model:	RTSB	
Performed:	Fri Aug 05 23:13:40 2011	
Calibrator Value:	120	GAPI
Background Reading:	21.934	cps
Calibrator Reading:	157.494	cps
Sensitivity:	0.885217	GAPI/cps



Dataset:	run9/pass1
Total Length:	5.12 ft
Total Weight:	20.00 lb
O.D.	1.90 in

MV Geophysical

CEMENT TOP LOG
HIGH RESOLUTION
TEMPERATURE
GAMMA RAY

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade
State/Prv Florida

Company	Layne Christensen Company
Well	Turkey Point EW-1
Field	Florida City
County	Miami-Dade
State/Prv	Florida
Location	FPL Turkey Point Power Plant LAT: 25 25' 19" N LONG: 80 20' 08" W McNabb Hydrogeologic Consulting, Inc.
Other Services	NONE

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

Date	5-AUG-2011	12:30 8/6/2011 8b
Run Number	EIGHT-A	1228'
Depth Driller	1531' CMT PLG	01:15 8/7/2011 8c
Depth Logger	1518'	1012'
Bottom Logged Interval	1518'	14:00 8/7/2011 8d
Top Log Interval	SURFACE	757'
Open Hole Size	42.5"	
Type Fluid	H2O	
Density / Viscosity	NA/NA	
Max. Recorded Temp.	see log	
Estimated Cement Top	1458'	
Time Well Ready	23:00 8/5/2011	
Time Logger on Bottom	23:30 8/5/2011	
Equipment Number	MVGS-1	
Location	Ft. Myers	
Recorded By	S.Miller/C.Miller	
Witnessed By	S.Durall (MHC)	K.Greuel (LCC)	D.Daigle (ASRus)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'	FIVE	12.25"	1090'	1655'
TWO	62.5"	SURFACE	259'	SIX	42.5"	1090'	1542'
THREE	12.25"	255'	1090'				
FOUR	52.5"	255'	1095'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String	54"	0.375" WT	SURFACE	255'
Production String	44"	0.375" WT	SURFACE	1090'
Liner	34"	0.375" WT	SURFACE	1535'
Invoice No.	2011138-142	LTP1.db	8fd/las/pdf	* FINAL PRINT *

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Comments

CEMENT TOP LOG

STAGE	TOP	TAG	STAGE	TOP	TAG
1	1458'	1467'	2	1228'	1257'
3	1012'	1016'	4	757'	xxx'
5	xxx'	xxx'	6	xxx'	xxx'

TEMPERATURE CALIBRATION REPORT (Performed: 19-JUL-11 09:15)

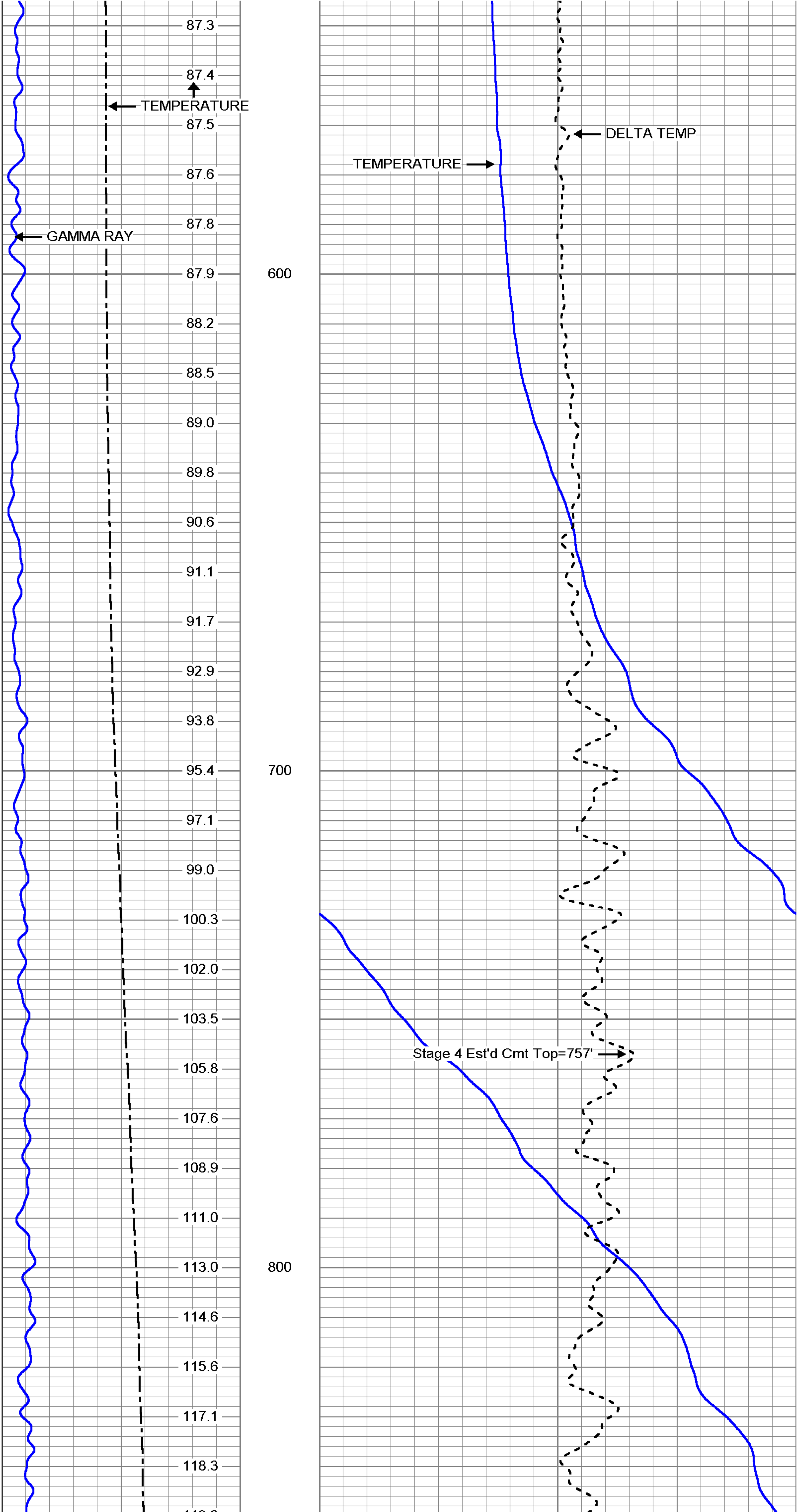
DEG-F	CPS
38.5	147.851
148.8	2690.21

MV Geophysical

Stage4 Est'dCmtTop=757'

Database File: ltp1.db
Dataset Pathname: run9/pass4
Presentation Format: CTLCC-1
Dataset Creation: Sun Aug 07 13:56:35 2011 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240

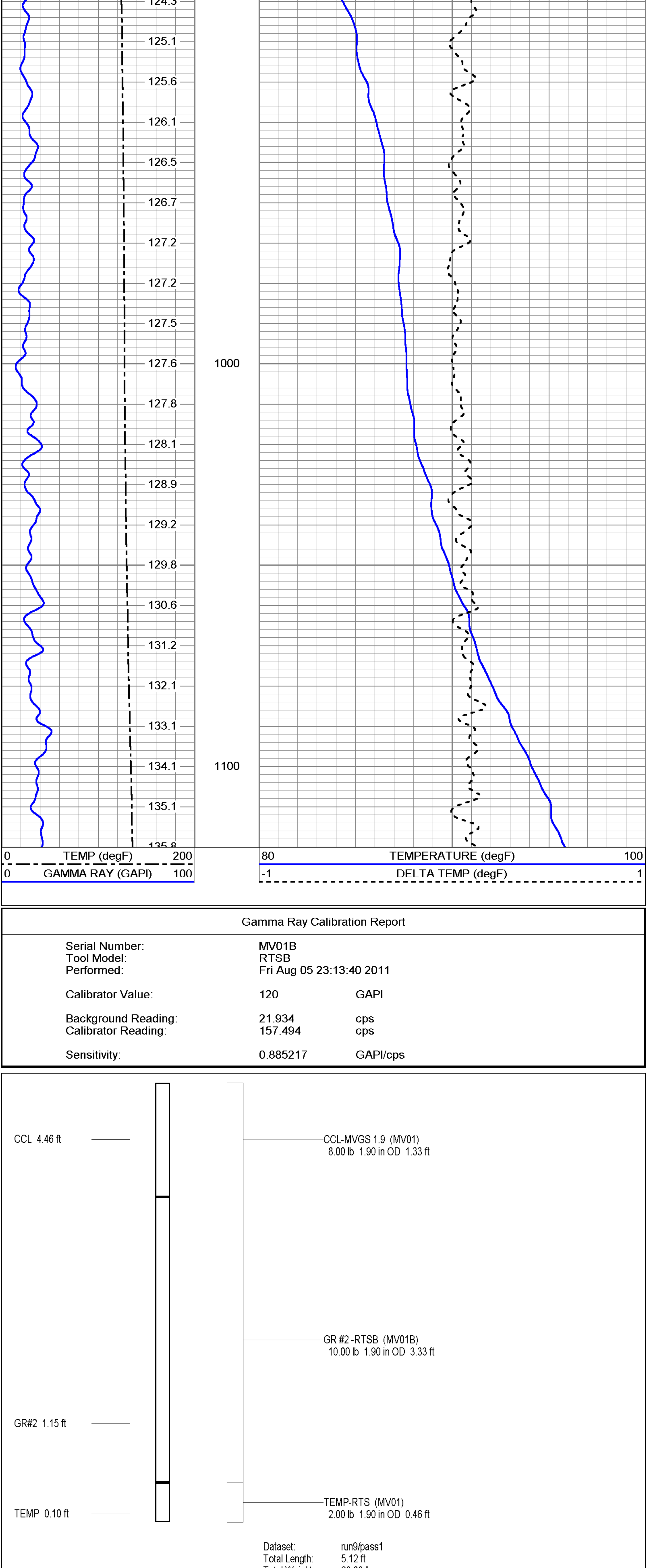
0 TEMP (degF) 200
0 GAMMA RAY (GAPI) 100
80 TEMPERATURE (degF) 100
-1 DELTA TEMP (degF) 1



0 TEMP (degF) 200
0 GAMMA RAY (GAPI) 100
80 TEMPERATURE (degF) 100
-1 DELTA TEMP (degF) 1

Gamma Ray Calibration Report

Serial Number:	MV01B	
Tool Model:	RTSB	
Performed:	Fri Aug 05 23:13:40 2011	
Calibrator Value:	120	GAPI
Background Reading:	21.934	cps
Calibrator Reading:	157.494	cps
Sensitivity:	0.885217	GAPI/cps



Dataset: run9/pass1
Total Length: 5.12 ft
Total Weight: 20.00 lb
O.D. 1.90 in

MV Geophysical

CEMENT TOP LOG
HIGH RESOLUTION
TEMPERATURE
GAMMA RAY

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade
State/Prv Florida

Company	Layne Christensen Company
Well	Turkey Point EW-1
Field	Florida City
County	Miami-Dade
State/Prv	Florida

Location
FPL Turkey Point Power Plant
LAT: 25 25' 19" N LONG: 80 20' 08" W
McNabb Hydrogeologic Consulting, Inc.

Other Services
NONE

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

Date	5-AUG-2011	12:30 8/6/2011 8b	
Run Number	EIGHT-A	1228'	
Depth Driller	1531' CMT PLG	01:15 8/7/2011 8c	
Depth Logger	1518'	1012'	
Bottom Logged Interval	1518'	14:00 8/7/2011 8d	
Top Log Interval	SURFACE	757'	
Open Hole Size	42.5"	05:45 8/8/2011 8e	
Type Fluid	H2O	504'	
Density / Viscosity	NA/NA		
Max. Recorded Temp.	see log		
Estimated Cement Top	1458'		
Time Well Ready	23:00 8/5/2011		
Time Logger on Bottom	23:30 8/5/2011		
Equipment Number	MVGS-1		
Location	Ft. Myers		
Recorded By	S.Miller/C.Miller		
Witnessed By	S.Durall (MHC)	K.Greuel (LCC)	D.Daigle (ASRus)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'	FIVE	12.25"	1090'	1655'
TWO	62.5"	SURFACE	259'	SIX	42.5"	1090'	1542'
THREE	12.25"	255'	1090'				
FOUR	52.5"	255'	1095'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String	54"	0.375" WT	SURFACE	255'
Production String	44"	0.375" WT	SURFACE	1090'
Liner	34"	0.375" WT	SURFACE	1535'
Invoice No.	2011138-142	LTP1.db	8fld/las/pdf	* FINAL PRINT *

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Comments

CEMENT TOP LOG

STAGE	TOP	TAG	STAGE	TOP	TAG
1	1458'	1467'	2	1228'	1257'
3	1012'	1016'	4	757'	761'
5	504'	499'	6	xxx'	xxx'

TEMPERATURE CALIBRATION REPORT (Performed: 19-JUL-11 09:15)

DEG-F	CPS
38.5	147.851
148.8	2690.21

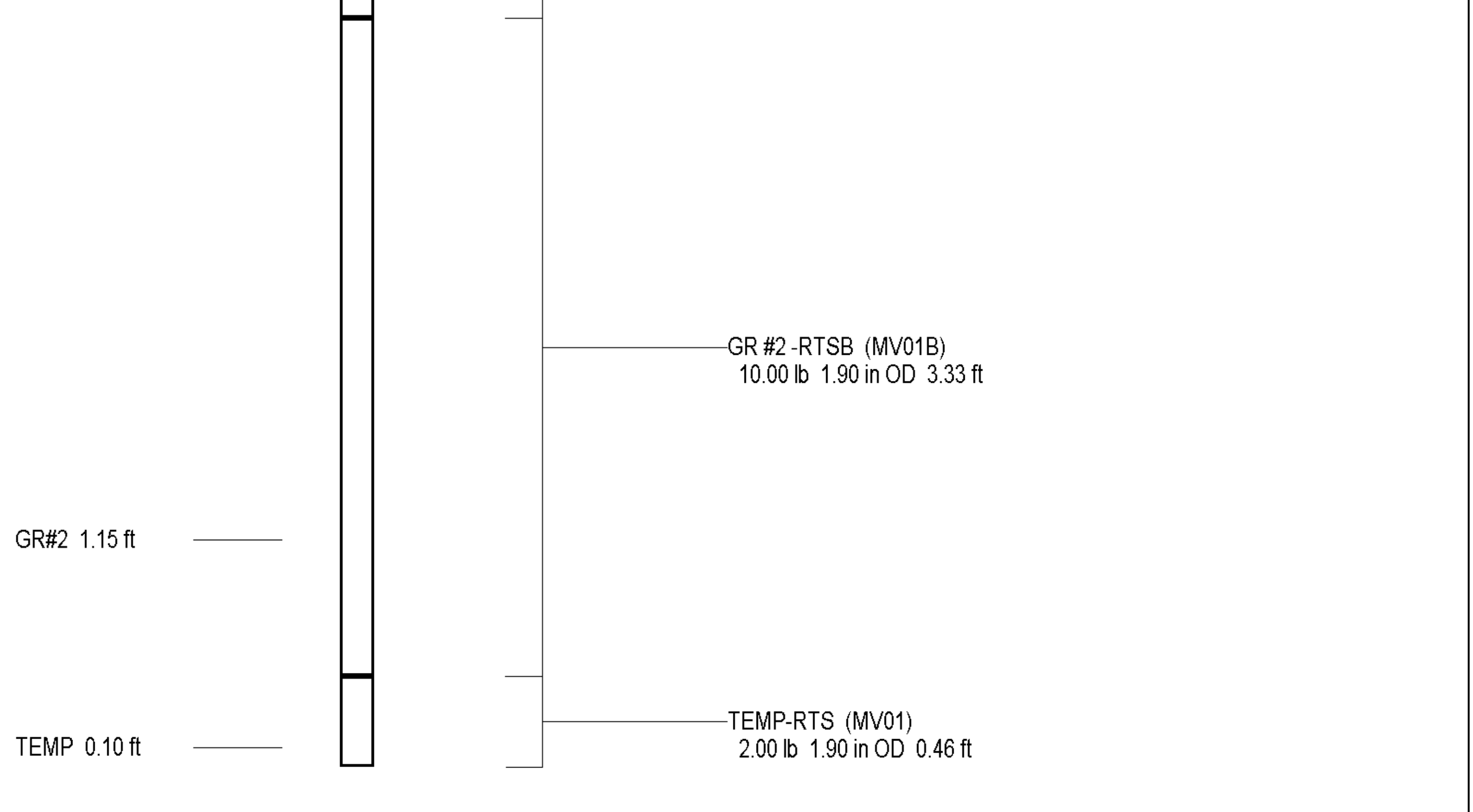
MV Geophysical

Stage5 Est'dCmtTop=504'

Database File: ltp1.db
Dataset Pathname: run9/pass5
Presentation Format: CTLCC-1
Dataset Creation: Mon Aug 08 05:47:23 2011 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240

Gamma Ray Calibration Report

Serial Number:	MV01B	
Tool Model:	RTSB	
Performed:	Fri Aug 05 23:13:40 2011	
Calibrator Value:	120	GAPI
Background Reading:	21.934	cps
Calibrator Reading:	157.494	cps
Sensitivity:	0.885217	GAPI/cps



Dataset: run9/pass1
Total Length: 5.12 ft
Total Weight: 20.00 lb
O.D. 1.90 in

MV Geophysical

CEMENT TOP LOG
HIGH RESOLUTION
TEMPERATURE
GAMMA RAY

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade
State/Prv Florida

Company	Layne Christensen Company
Well	Turkey Point EW-1
Field	Florida City
County	Miami-Dade State/Prv Florida

Location
FPL Turkey Point Power Plant
LAT: 25 25' 19" N LONG: 80 20' 08" W
McNabb Hydrogeologic Consulting, Inc.

Other Services
NONE

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

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

Date	5-AUG-2011	12:30 8/6/2011 8b	
Run Number	EIGHT-A	1228'	
Depth Driller	1531' CMT PLG	01:15 8/7/2011 8c	
Depth Logger	1518'	1012'	
Bottom Logged Interval	1518'	14:00 8/7/2011 8d	
Top Log Interval	SURFACE	757'	
Open Hole Size	42.5"	05:45 8/8/2011 8e	
Type Fluid	H2O	504'	
Density / Viscosity	NA/NA	17:00 8/8/2011 8f	
Max. Recorded Temp.	see log	388'	
Estimated Cement Top	1458'		
Time Well Ready	23:00 8/5/2011		
Time Logger on Bottom	23:30 8/5/2011		
Equipment Number	MVGS-1		
Location	Ft. Myers		
Recorded By	S.Miller/C.Miller		
Witnessed By	S.Durall (MHC)	K.Greuel (LCC)	D.Daigle (ASRus)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'	FIVE	12.25"	1090'	1655'
TWO	62.5"	SURFACE	259'	SIX	42.5"	1090'	1542'
THREE	12.25"	255'	1090'				
FOUR	52.5"	255'	1095'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String	54"	0.375" WT	SURFACE	255'
Production String	44"	0.375" WT	SURFACE	1090'
Liner	34"	0.375" WT	SURFACE	1535'
Invoice No.	2011138-144	LTP1.db	8fld/las/pdf	* FINAL PRINT *

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Comments

CEMENT TOP LOG

STAGE	TOP	TAG	STAGE	TOP	TAG
1	1458'	1467'	2	1228'	1257'
3	1012'	1016'	4	757'	761'
5	504'	499'	6	388'	xxx'

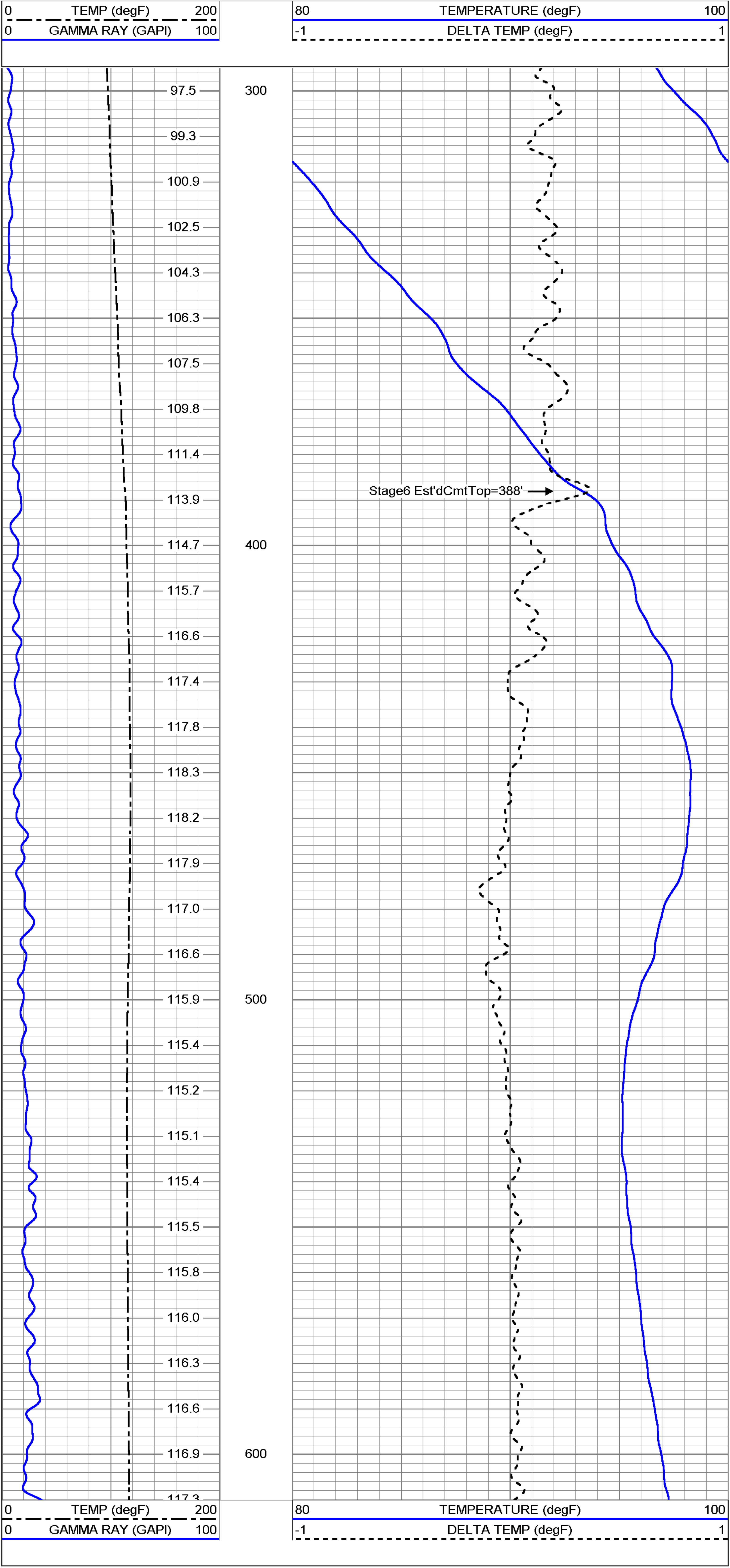
TEMPERATURE CALIBRATION REPORT (Performed: 19-JUL-11 09:15)

DEG-F	CPS
38.5	147.851
148.8	2690.21

MV Geophysical

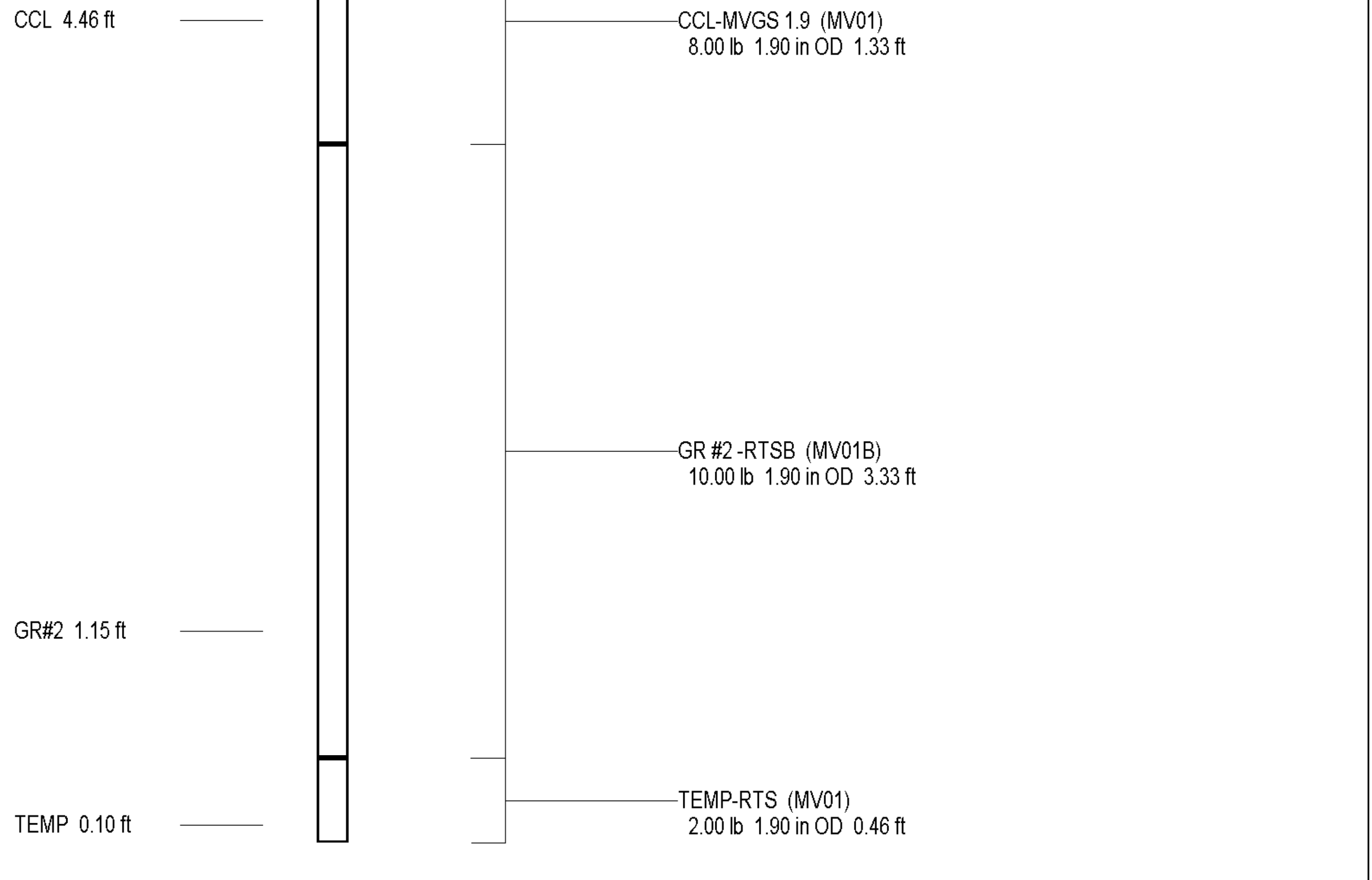
Stage6 Est'dCmtTop=388'

Database File:	ltp1.db
Dataset Pathname:	run9/pass6
Presentation Format:	CTLCC-1
Dataset Creation:	Mon Aug 08 16:57:40 2011 by Log VER_5.3
Charted by:	Depth in Feet scaled 1:240



Gamma Ray Calibration Report

Serial Number:	MV01B	
Tool Model:	RTSB	
Performed:	Fri Aug 05 23:13:40 2011	
Calibrator Value:	120	GAPI
Background Reading:	21.934	cps
Calibrator Reading:	157.494	cps
Sensitivity:	0.885217	GAPI/cps



Dataset:	run9/pass1
Total Length:	5.12 ft
Total Weight:	20.00 lb
O.D.	1.90 in

MV Geophysical

CEMENT TOP LOG
HIGH RESOLUTION
TEMPERATURE
GAMMA RAY

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade State/Prv Florida

Location
FPL Turkey Point Power Plant
LAT: 25 25' 19" N LONG: 80 20' 08" W
McNabb Hydrogeologic Consulting, Inc.

Other Services
NONE

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

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

Date	5-AUG-2011	12:30 8/6/2011 8b	
Run Number	EIGHT-A	1228'	
Depth Driller	1531' CMT PLG	01:15 8/7/2011 8c	
Depth Logger	1518'	1012'	
Bottom Logged Interval	1518'	14:00 8/7/2011 8d	
Top Log Interval	SURFACE	757'	
Open Hole Size	42.5"	05:45 8/8/2011 8e	
Type Fluid	H2O	504'	
Density / Viscosity	NA/NA	17:00 8/8/2011 8f	
Max. Recorded Temp.	see log	388'	
Estimated Cement Top	1458'		
Time Well Ready	23:00 8/5/2011		
Time Logger on Bottom	23:30 8/5/2011		
Equipment Number	MVGS-1		
Location	Ft. Myers		
Recorded By	S.Miller/C.Miller		
Witnessed By	S.Durall (MHC)	K.Greuel (LCC)	D.Daigle (ASRus)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'	FIVE	12.25"	1090'	1655'
TWO	62.5"	SURFACE	259'	SIX	42.5"	1090'	1542'
THREE	12.25"	255'	1090'				
FOUR	52.5"	255'	1095'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String	54"	0.375" WT	SURFACE	255'
Production String	44"	0.375" WT	SURFACE	1090'
Liner	34"	0.375" WT	SURFACE	1535'
Invoice No.	2011138-144	LTP1.db	8fldlas/pdf	* FINAL PRINT *

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Comments

CEMENT TOP LOG

STAGE	TOP	TAG	STAGE	TOP	TAG
1	1458'	1467'	2	1228'	1257'
3	1012'	1016'	4	757'	761'
5	504'	499'	6	388'	xxx'

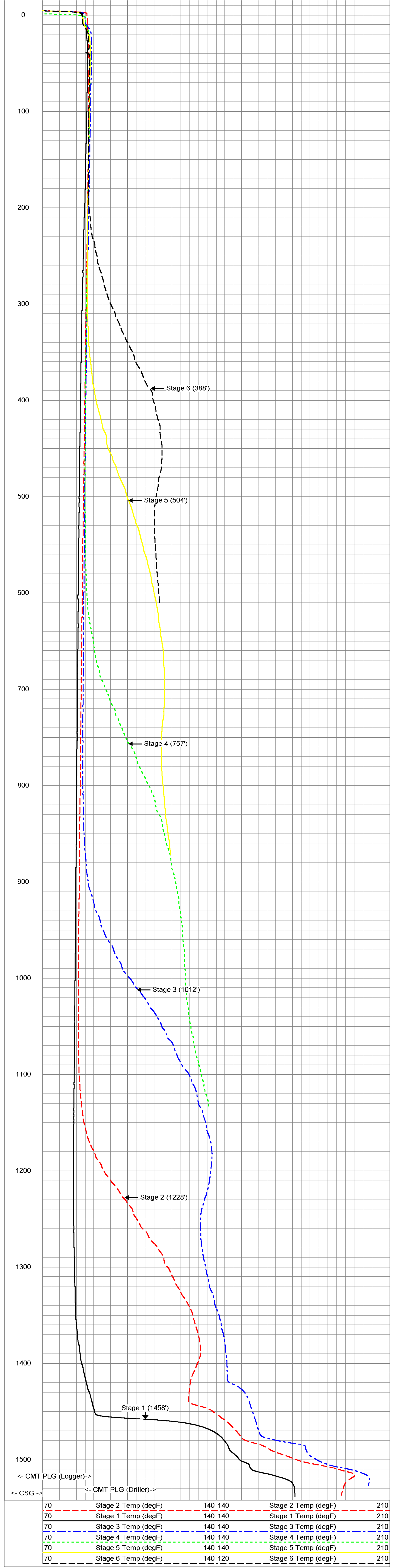
TEMPERATURE CALIBRATION REPORT (Performed: 19-JUL-11 09:15)

DEG-F	CPS
38.5	147.851
148.8	2690.21

MV Geophysical

Merged Cement Tops

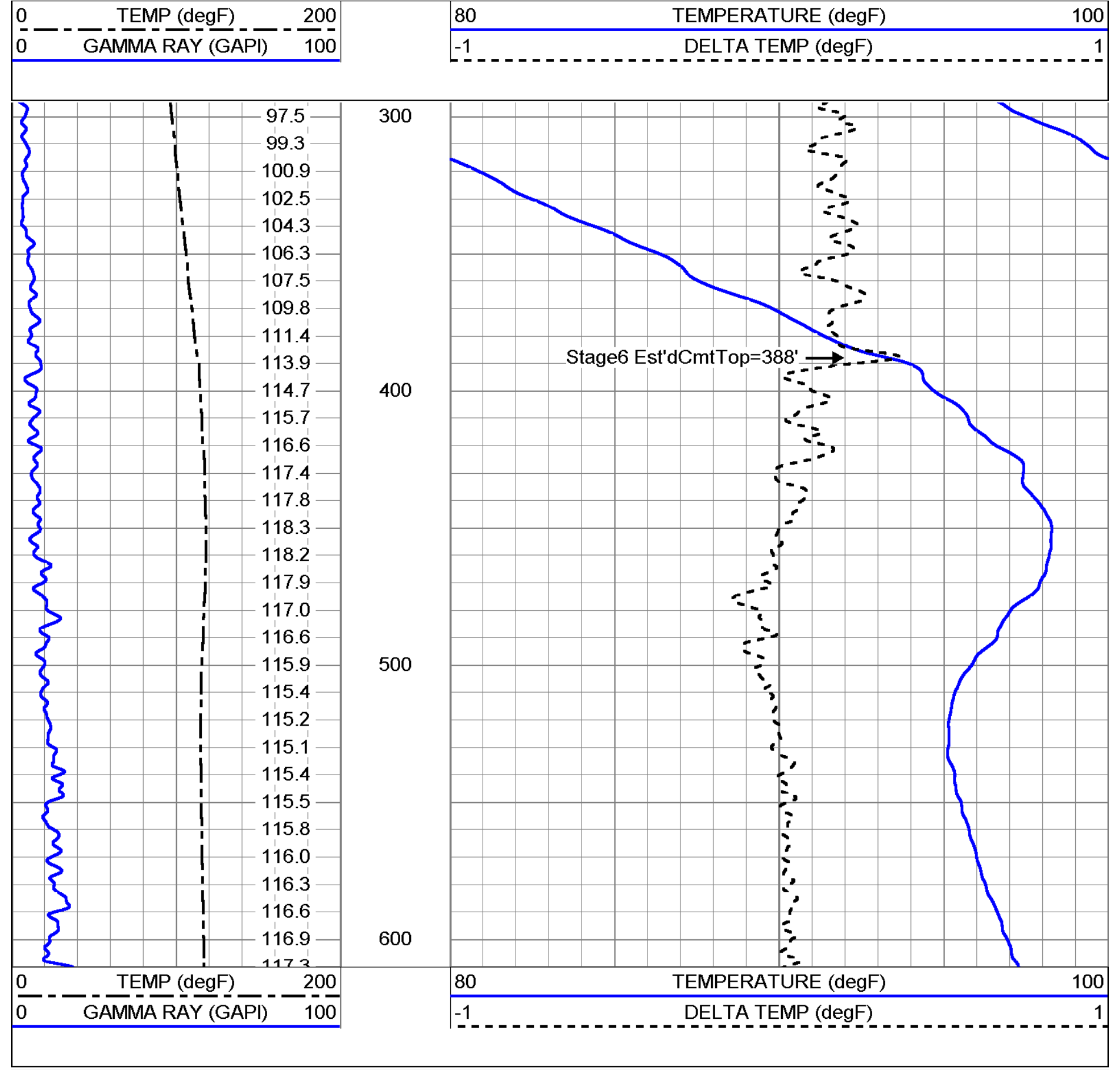
Database File: ltp1.db
Dataset Pathname: run9/ctlmerge
Presentation Format: CTLMRG2
Dataset Creation: Mon Aug 08 17:29:04 2011
Charted by: Depth in Feet scaled 1:600



MV Geophysical

Stage6 Est'dCmtTop=388'

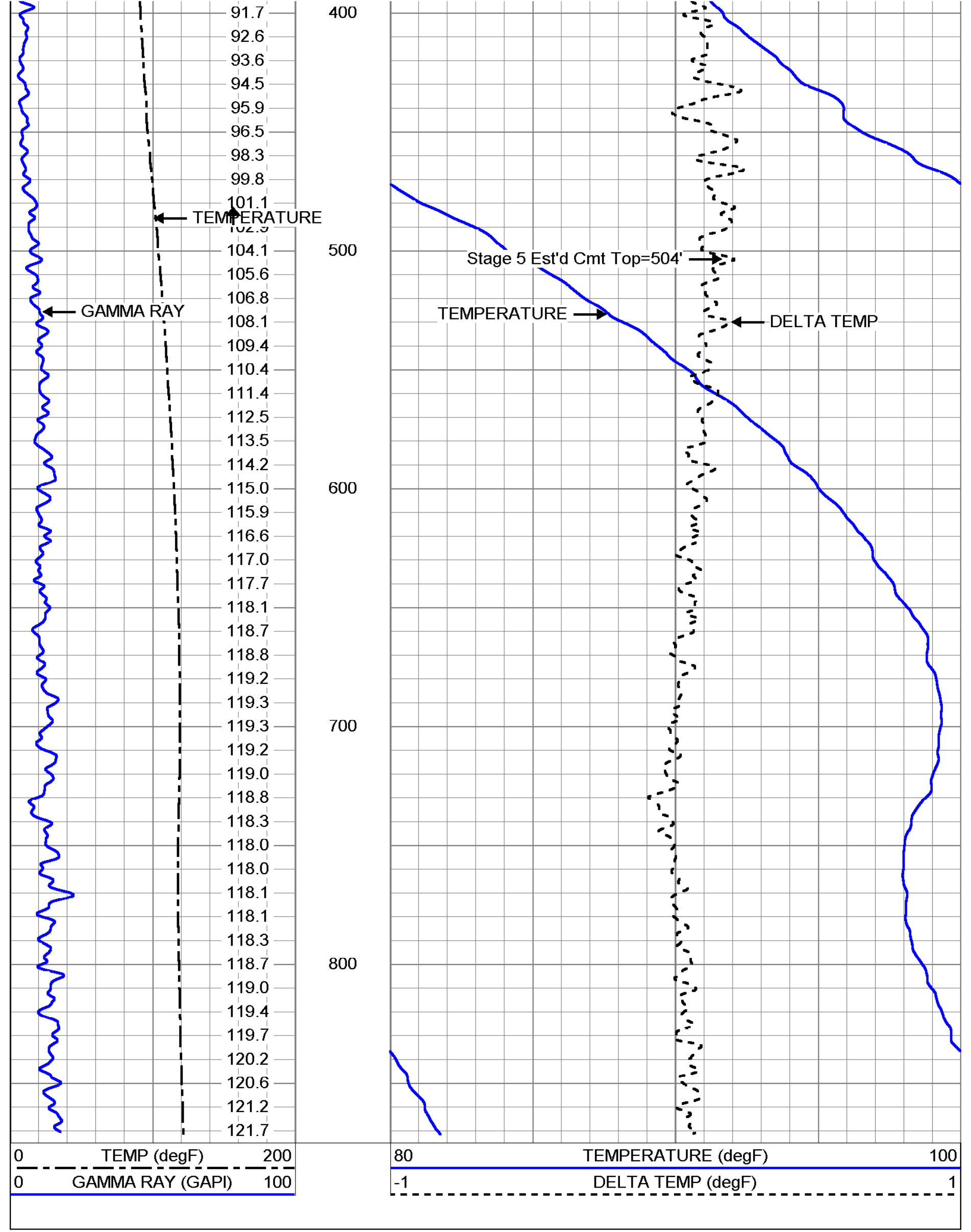
Database File: ltp1.db
Dataset Pathname: run9/pass6
Presentation Format: CTLCC-1
Dataset Creation: Mon Aug 08 16:57:40 2011 by Log VER_5.3
Charted by: Depth in Feet scaled 1:600



MV Geophysical

Stage5 Est'dCmtTop=504'

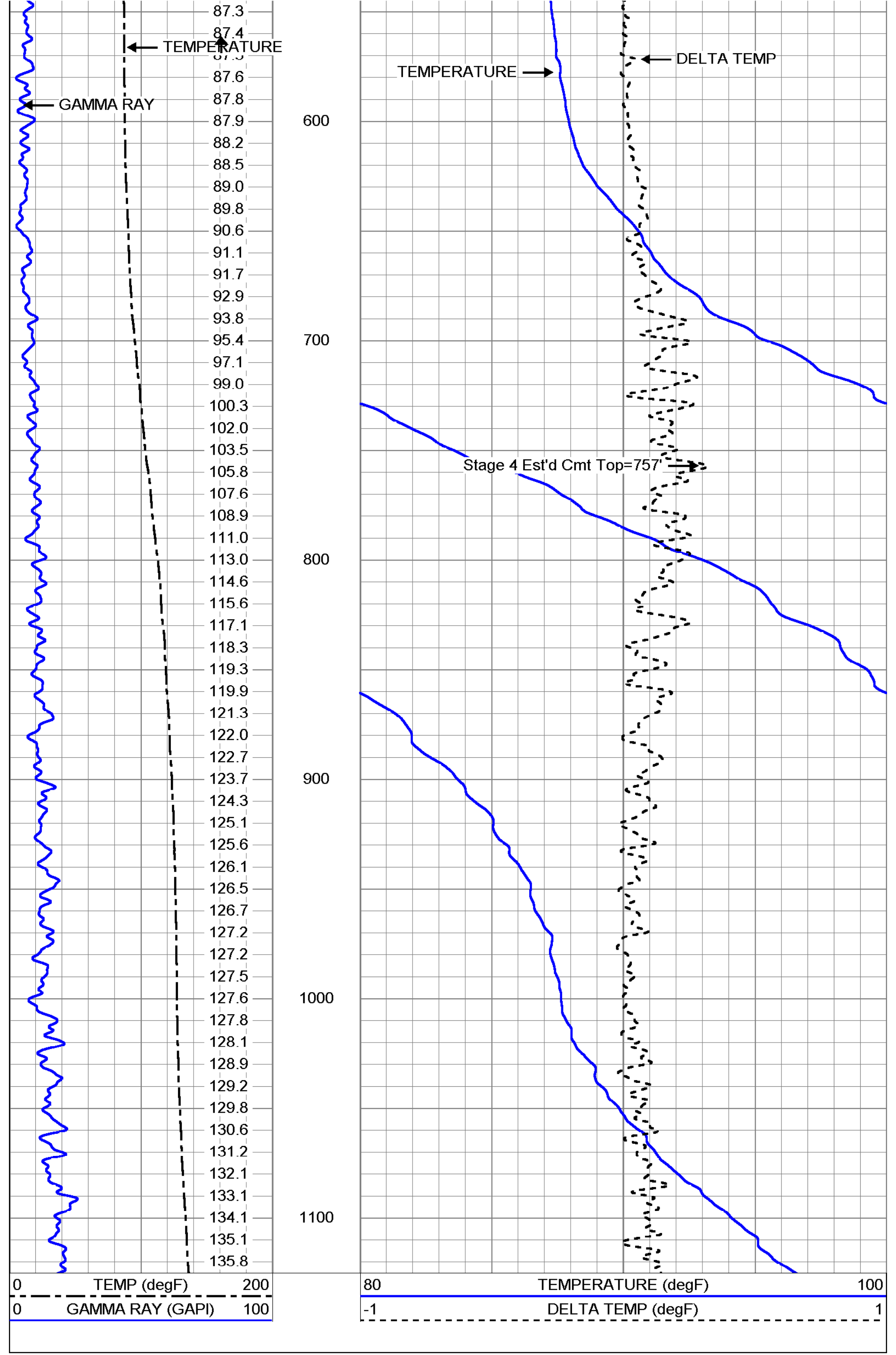
Database File: ltp1.db
Dataset Pathname: run9/pass5
Presentation Format: CTLCC-1
Dataset Creation: Mon Aug 08 05:47:23 2011 by Log VER_5.3
Charted by: Depth in Feet scaled 1:600



MV Geophysical

Stage4 Est'dCmtTop=757'

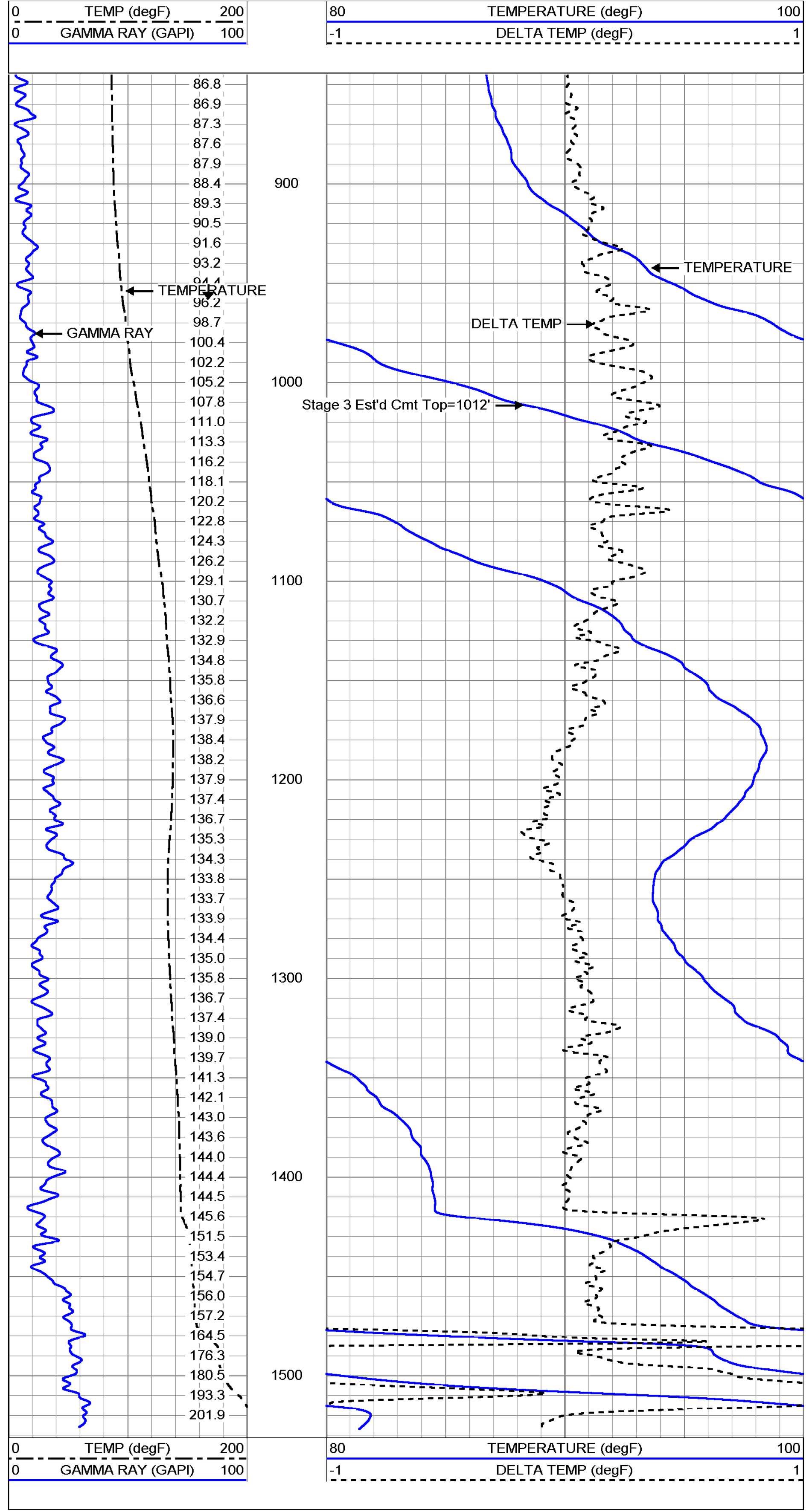
Database File: ltp1.db
Dataset Pathname: run9/pass4
Presentation Format: CTLCC-1
Dataset Creation: Sun Aug 07 13:56:35 2011 by Log VER_5.3
Charted by: Depth in Feet scaled 1:600



MV Geophysical

Stage3 Est'dCmtTop=1012'

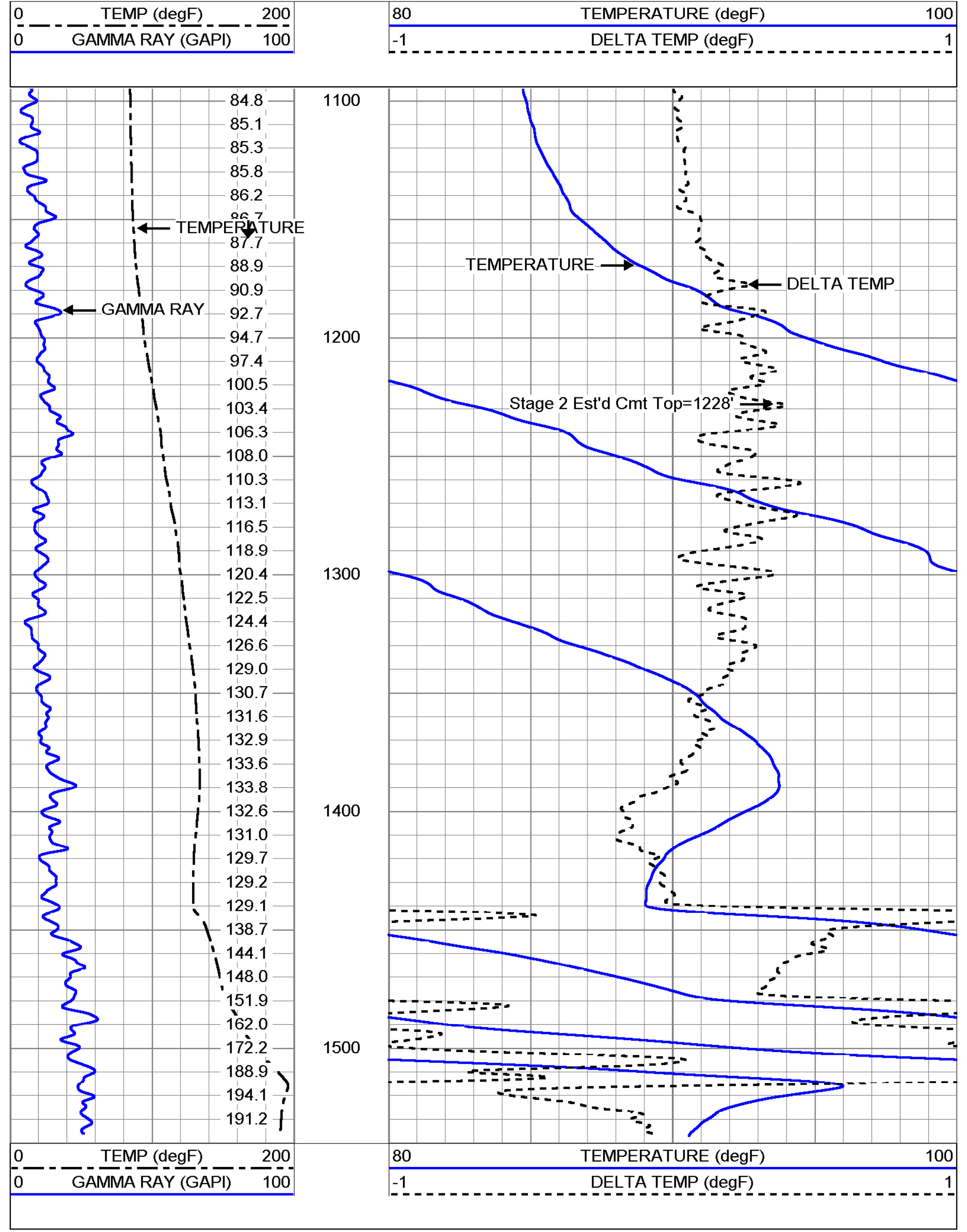
Database File: ltp1.db
Dataset Pathname: run9/pass3
Presentation Format: CTLCC-1
Dataset Creation: Sun Aug 07 01:09:06 2011 by Log VER_5.3
Charted by: Depth in Feet scaled 1:600



MV Geophysical

Stage2 Est'dCmtTop=1228'

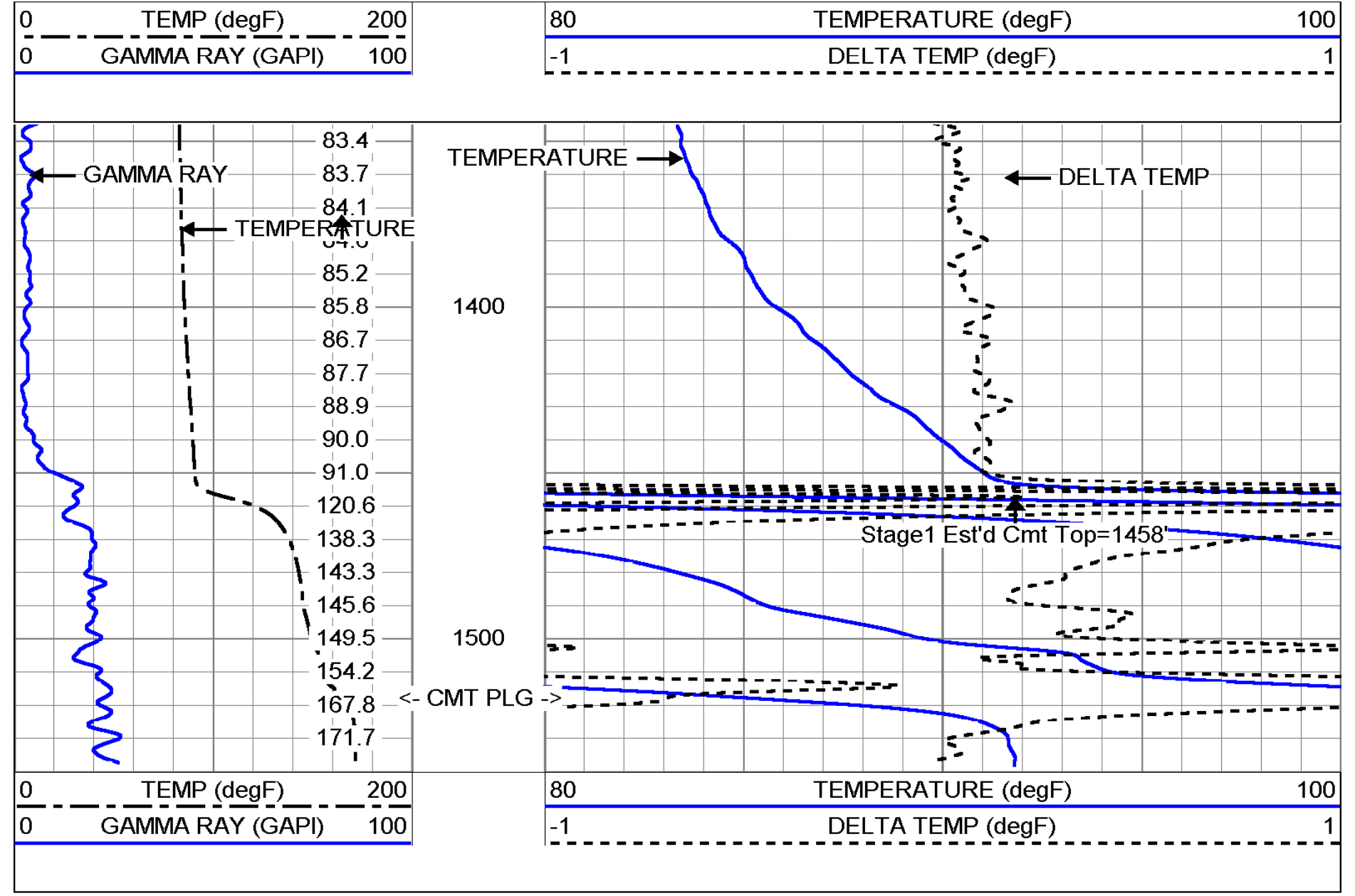
Database File: ltp1.db
Dataset Pathname: run9/stage2
Presentation Format: CTLCC-1
Dataset Creation: Sat Aug 06 12:29:45 2011
Charted by: Depth in Feet scaled 1:600



MV Geophysical

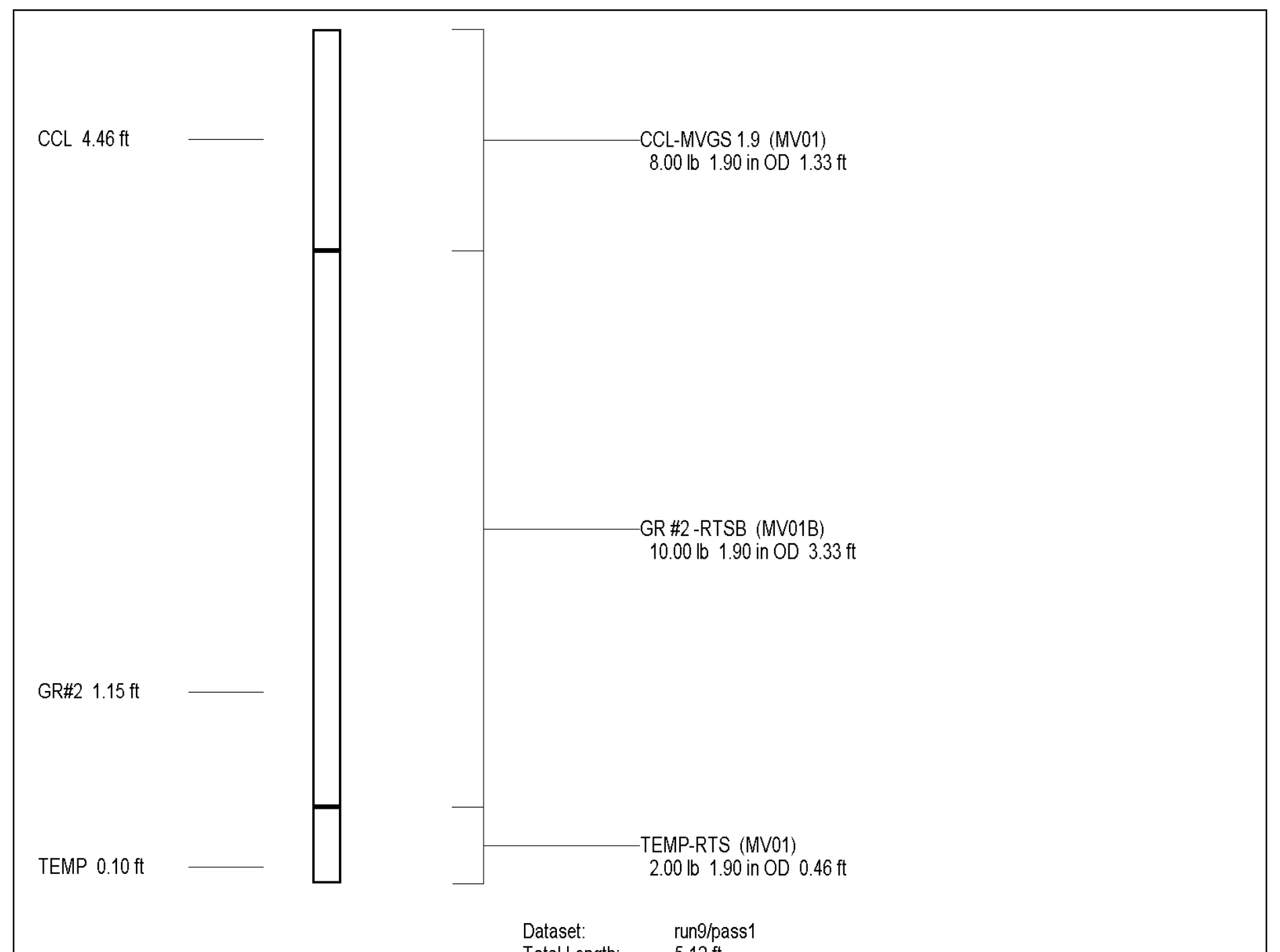
Stage1 Est'dCmtTop=1458'

Database File: ltp1.db
Dataset Pathname: run9/pass2
Presentation Format: CTLCC-1
Dataset Creation: Fri Aug 05 23:30:49 2011 by Log VER_5.3
Charted by: Depth in Feet scaled 1:600



Gamma Ray Calibration Report

Serial Number:	MV01B	
Tool Model:	RTSB	
Performed:	Fri Aug 05 23:13:40 2011	
Calibrator Value:	120	GAPI
Background Reading:	21.934	cps
Calibrator Reading:	157.494	cps
Sensitivity:	0.885217	GAPI/cps



Dataset: run9/pass1
Total Length: 5.12 ft
Total Weight: 20.00 lb
O.D. 1.90 in

MV Geophysical

X-Y CALIPER GAMMA RAY LOG

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade State/Prv Florida
Location FPL Turkey Point Power Plant
LAT: 25 25' 19" N LONG: 80 20' 08" W
McNabb Hydrogeologic Consulting, Inc.

Other Services
LOTS

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

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade
State/Prv Florida

Date	30-NOV-2011
Run Number	NINE
Depth Driller	3230'
Depth Logger	3233'
Bottom Logged Interval	3233'
Top Log Interval	1475'
Open Hole Size	12.25"
Type Fluid	H2O
Density / Viscosity	NA/NA
Max. Recorded Temp.	see FCT log
Estimated Cement Top	SURFACE
Time Well Ready	07:30 11/30/2011
Time Logger on Bottom	08:15 11/30/2011
Equipment Number	MVGS-1
Location	Ft. Myers
Recorded By	S.Miller/C.Miller
Witnessed By	M.Classen (ASRus) K.Greuel (LCC)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'	FIVE	12.25"	1090'	1655'
TWO	62.5"	SURFACE	259'	SIX	42.5"	1090'	1542'
THREE	12.25"	255'	1090'	SEVEN	12.25"	1535'	
FOUR	52.5"	255'	1095'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String	54"	0.375" WT	SURFACE	255'
Production String	44"	0.375" WT	SURFACE	1090'
Liner	34"	0.375" WT	SURFACE	1535'
Invoice No.	2011209	LTP1B.db	8fld/las/pdf	* FINAL PRINT *

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Comments

MAXIMUM Caliper Arm Extensions: 33"

BOREHOLE VOLUMES IN CUBIC FEET

Drill Pipe set to 1520'

Database File: ltp1b.db
Dataset Pathname: run10/MAIN
Presentation Format: xys535-5
Dataset Creation: Wed Nov 30 11:42:24 2011
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: ltp1b.db
Dataset Pathname: run10/pass1
Dataset Creation: Wed Nov 30 08:46:52 2011 by Log VER_5.3

XY Caliper Calibration Report

Serial Number: 01S
Tool Model: XYCS
Performed: Wed Nov 30 08:47:53 2011

Small Ring: 12 in
Large Ring: 33 in

	X Caliper	Y Caliper	
Reading with Small Ring:	704.5	740.9	cps
Reading with Large Ring:	1133.3	1066.7	cps
Gain:	0.0489739	0.0644567	
Offset:	-22.5021	-35.756	

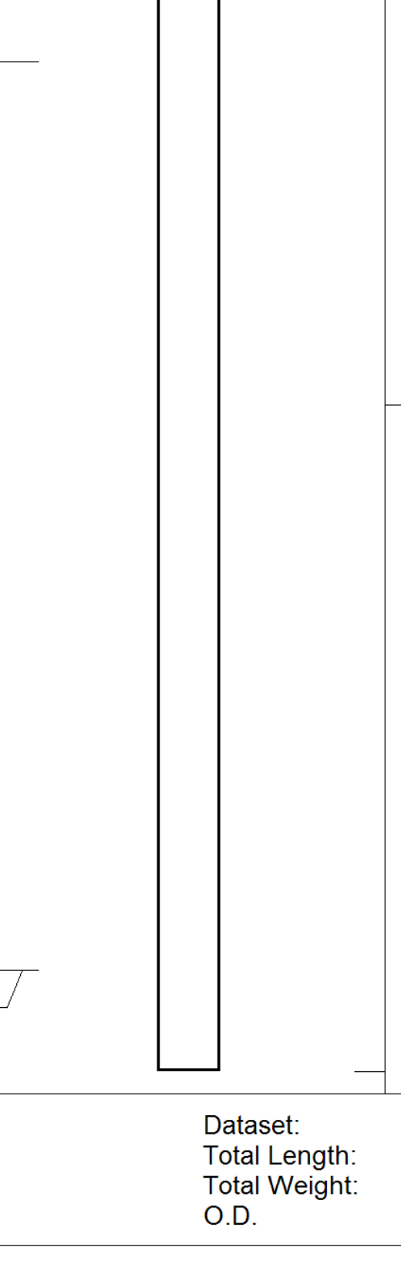
Gamma Ray Calibration Report

Serial Number: 01
Tool Model: GROH
Performed: Wed Nov 30 08:12:07 2011

Calibrator Value: 120 GAPI

Background Reading: 17.114 cps
Calibrator Reading: 131.857 cps

Sensitivity: 1.04582 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: ltp1b.db: field/well/run10/pass1
Total Length: 9.35 ft
Total Weight: 150.00 lb
O.D. 3.50 in

MV Geophysical

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade
State Florida
Country USA

MV Geophysical

X-Y CALIPER
GAMMA RAY
LOG

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade State/Prv Florida
Location FPL Turkey Point Power Plant
LAT: 25 25' 19" N LONG: 80 20' 08" W
McNabb Hydrogeologic Consulting, Inc.
Other Services XY/GR,FCT DIL,BHC,FLO TDS,DHTV
Permanent Datum Pad Level Elevation
Log Measured From Pad Level
Drilling Measured From Pad Level
Elevation K.B. D.F. G.L.

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade
State/Prv Florida

Date	30-NOV-2011
Run Number	NINE
Depth Driller	3230'
Depth Logger	3233'
Bottom Logged Interval	3233'
Top Log Interval	1475'
Open Hole Size	12.25"
Type Fluid	H2O
Density / Viscosity	NA/NA
Max. Recorded Temp.	see FCT log
Estimated Cement Top	SURFACE
Time Well Ready	07:30 11/30/2011
Time Logger on Bottom	08:15 11/30/2011
Equipment Number	MVGS-1
Location	Ft. Myers
Recorded By	S.Miller/C.Miller
Witnessed By	M.Classen (ASRus) K.Greuel (LCC)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'	FIVE	12.25"	1090'	1655'
TWO	62.5"	SURFACE	259'	SIX	42.5"	1090'	1542'
THREE	12.25"	255'	1090'	SEVEN	12.25"	1535'	3230'
FOUR	52.5"	255'	1095'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String	54"	0.375" WT	SURFACE	255'
Production String	44"	0.375" WT	SURFACE	1090'
Liner	34"	0.375" WT	SURFACE	1535'
Invoice No.	2011209	LTP1B.db	8fd/las/pdf	* FINAL PRINT *

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Comments

MAXIMUM Caliper Arm Extensions: 33"

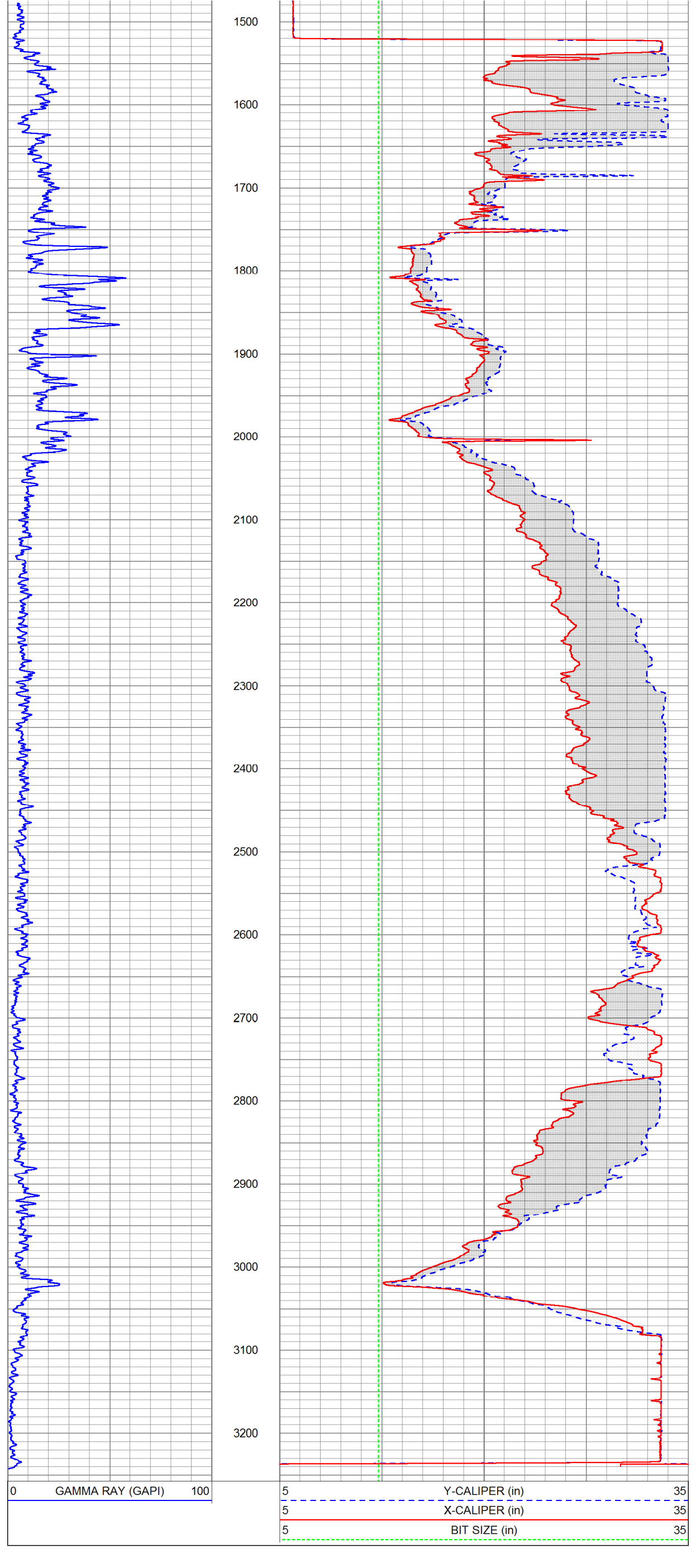
BOREHOLE VOLUMES IN BOTH CUBIC FEET & BARRELS.

Drill Pipe set to 1520'

MV Geophysical

MAIN PASS

Database File: ltp1b.db
Dataset Pathname: run10/MAIN
Presentation Format: xys535-1
Dataset Creation: Wed Nov 30 11:42:24 2011
Charted by: Depth in Feet scaled 1:1200



MV Geophysical

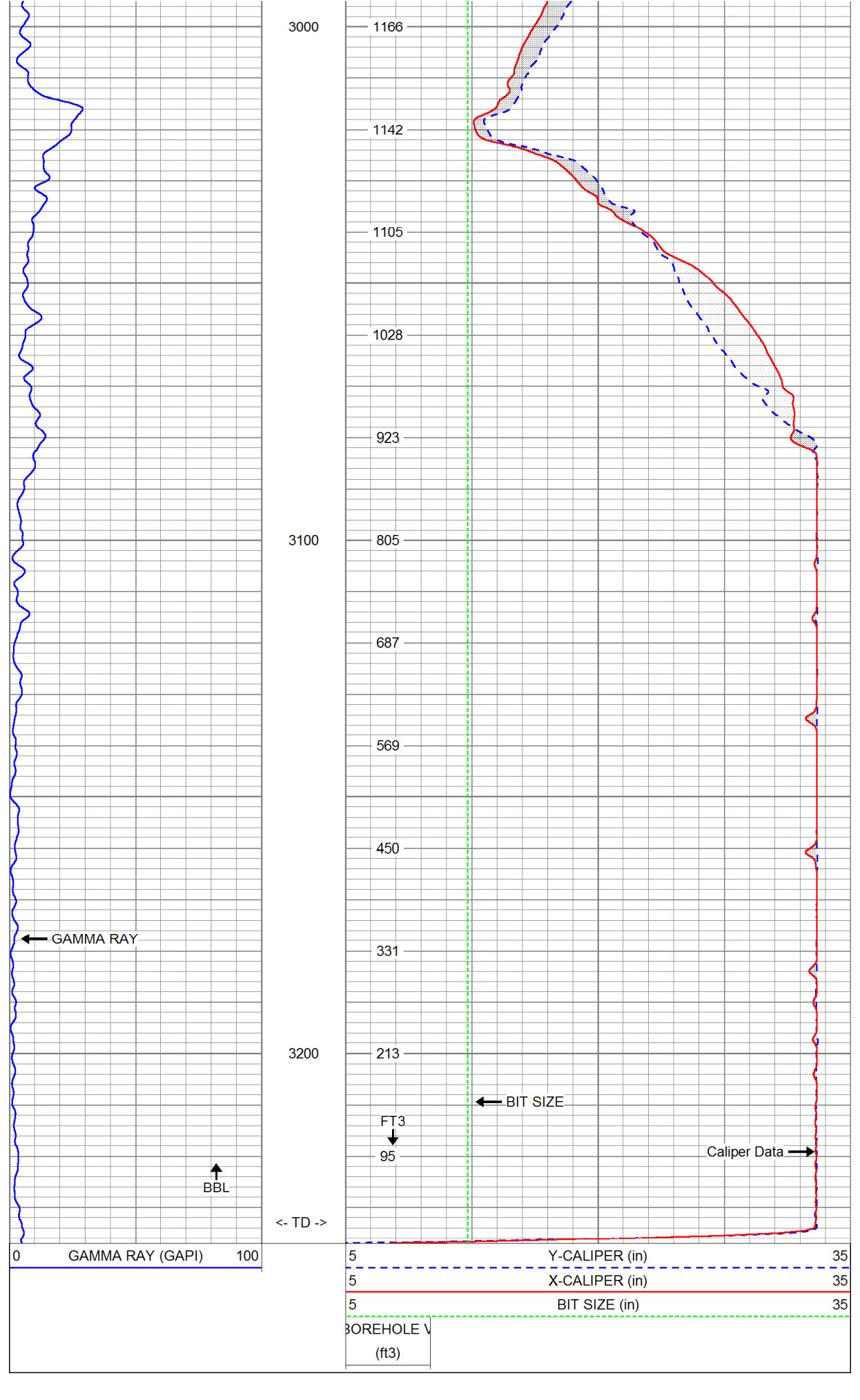
MAIN PASS

Database File: ltp1b.db
Dataset Pathname: run10/MAIN
Presentation Format: xys535-5
Dataset Creation: Wed Nov 30 11:42:24 2011
Charted by: Depth in Feet scaled 1:600

MV Geophysical

REPEAT SECTION

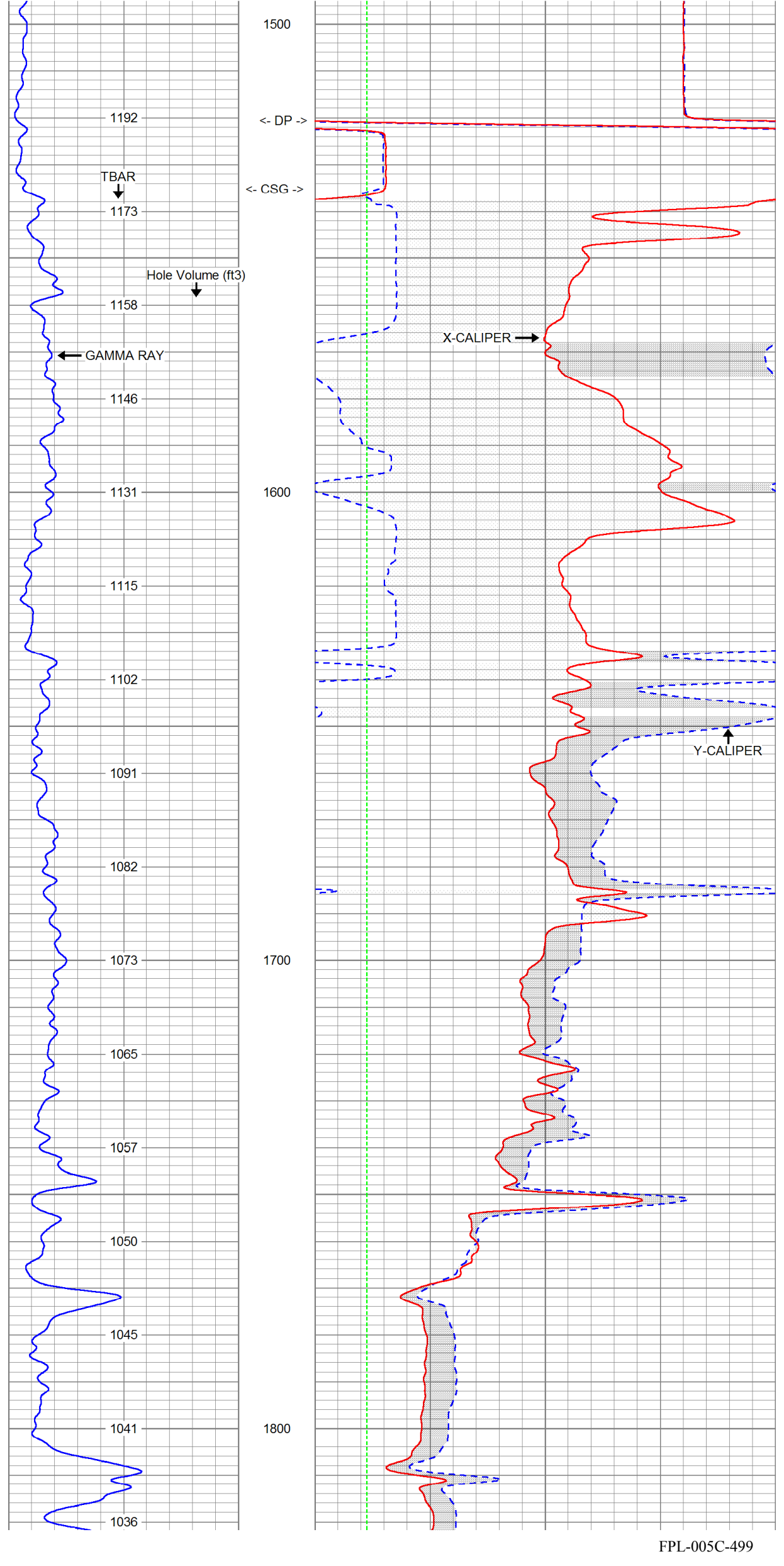
Database File: ltp1b.db
Dataset Pathname: run10/REPEAT
Presentation Format: xy535-5
Dataset Creation: Wed Nov 30 15:24:26 2011
Charted by: Depth in Feet scaled 1:240



MV Geophysical

MAIN PASS

Database File: ltp1b.db
Dataset Pathname: run10/MAIN
Presentation Format: xy1030-5
Dataset Creation: Wed Nov 30 11:42:24 2011
Charted by: Depth in Feet scaled 1:240



Calibration Report

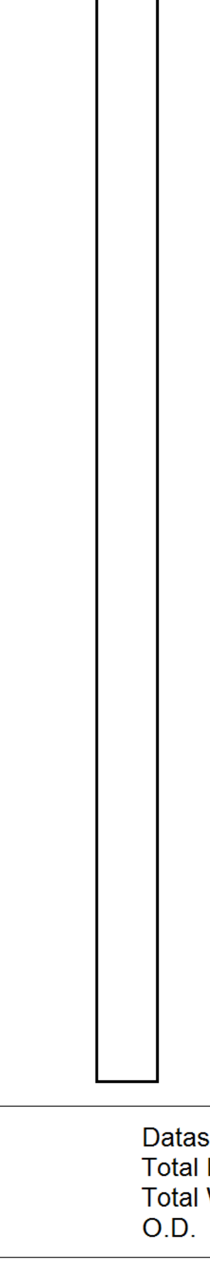
Database File: ltp1b.db
Dataset Pathname: run10/pass1
Dataset Creation: Wed Nov 30 08:46:52 2011 by Log VER_5.3

XY Caliper Calibration Report

Serial Number:	01S		
Tool Model:	XYCS		
Performed:	Wed Nov 30 08:47:53 2011		
Small Ring:	12	in	
Large Ring:	33	in	
	X Caliper	Y Caliper	
Reading with Small Ring:	704.5	740.9	cps
Reading with Large Ring:	1133.3	1066.7	cps
Gain:	0.0489739	0.0644567	
Offset:	-22.5021	-35.756	

Gamma Ray Calibration Report

Serial Number:	01	
Tool Model:	GROH	
Performed:	Wed Nov 30 08:12:07 2011	
Calibrator Value:	120	GAPI
Background Reading:	17.114	cps
Calibrator Reading:	131.857	cps
Sensitivity:	1.04582	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: ltp1b.db: field/well/run10/pass1
Total Length: 9.35 ft
Total Weight: 150.00 lb
O.D. 3.50 in

MV Geophysical

Company	Layne Christensen Company		
Well	Turkey Point EW-1		
Field	Florida City		
County	Miami-Dade		
State	Florida	Country	USA

MV Geophysical

BOREHOLE COMPENSATED SONIC w/ VARIABLE DENSITY LOG

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade
State/Prv Florida

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade State/Prv Florida
Location FPL Turkey Point Power Plant
LAT: 25 25' 19" N LONG: 80 20' 08" W
McNabb Hydrogeologic Consulting, Inc.
Other Services XY/GR,FCT DIL,BHC,FLO TDS,DHTV

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

Date	30-NOV-2011
Run Number	NINE
Depth Driller	3230'
Depth Logger	3233'
Bottom Logged Interval	3233'
Top Log Interval	1475'
Open Hole Size	12.25"
Type Fluid	H2O
Density / Viscosity	NA/NA
Max. Recorded Temp.	see FCT log
Estimated Cement Top	SURFACE
Time Well Ready	07:30 11/30/2011
Time Logger on Bottom	13:45 11/30/2011
Equipment Number	MVGS-1
Location	Ft. Myers
Recorded By	S.Miller/C.Miller
Witnessed By	M.Classen (ASRus) K.Gruel (LCC)

Borehole Record

Run Number	Bit	From	To
ONE	12.25"	SURFACE	255'
TWO	62.5"	SURFACE	259'
THREE	12.25"	255'	1090'
FOUR	52.5"	255'	1095'

Tubing Record

Size	Weight	From	To
FIVE	12.25"	1090'	1655'
SIX	42.5"	1090'	1542'
SEVEN	12.25"	1535'	3230'

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String	54"	0.375" WT	SURFACE	255'
Production String	44"	0.375" WT	SURFACE	1090'
Liner	34"	0.375" WT	SURFACE	1535'
Invoice No.	2011209	LTP1B.db	8fd/las/pdf	*FINAL PRINT*

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Comments

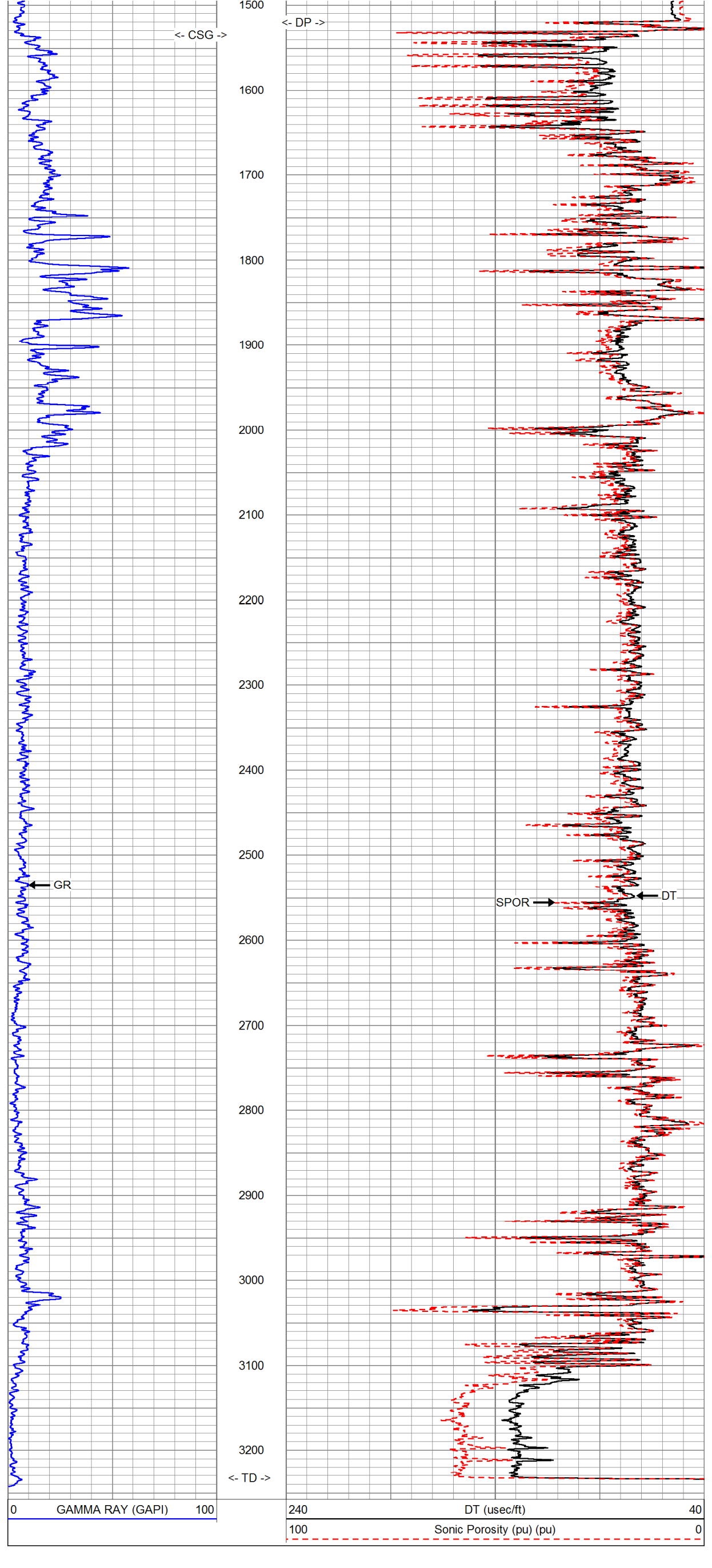
Sonic Porosity was run on a Limestone Matrix (=47.5)

Drill Pipe set to 1520'

MV Geophysical

MAIN PASS

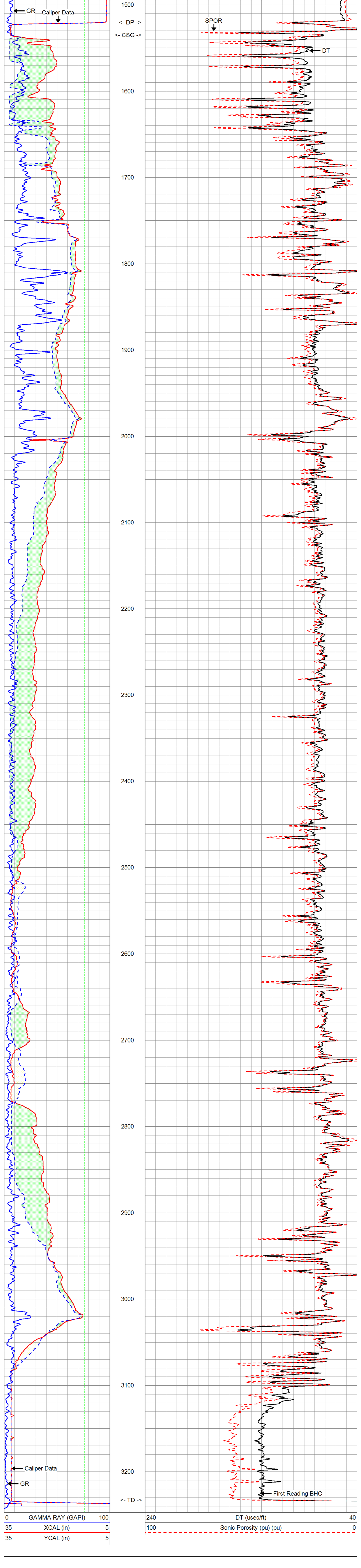
Database File: ltp1b.db
Dataset Pathname: run10/MAIN
Presentation Format: dtg-11
Dataset Creation: Wed Nov 30 11:42:24 2011
Charted by: Depth in Feet scaled 1:1200



MV Geophysical

MAIN PASS

Database File: ltp1b.db
Dataset Pathname: run10/MAIN
Presentation Format: dtxy535g
Dataset Creation: Wed Nov 30 11:42:24 2011
Charted by: Depth in Feet scaled 1:600



MV Geophysical

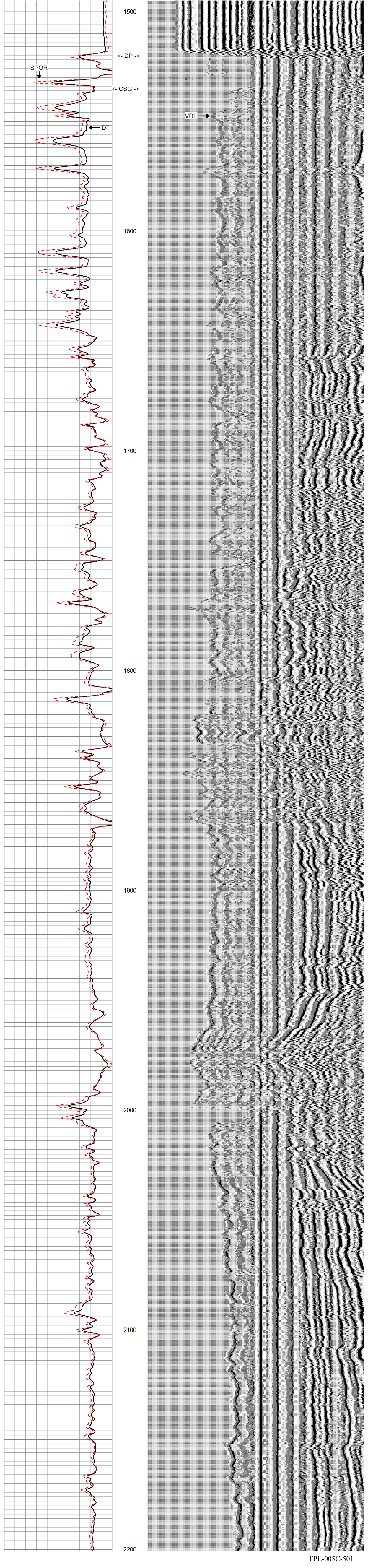
MAIN PASS

Database File: ltp1b.db
Dataset Pathname: run10/MAIN
Presentation Format: dtxy535g
Dataset Creation: Wed Nov 30 11:42:24 2011
Charted by: Depth in Feet scaled 1:240

MV Geophysical

MAIN PASS

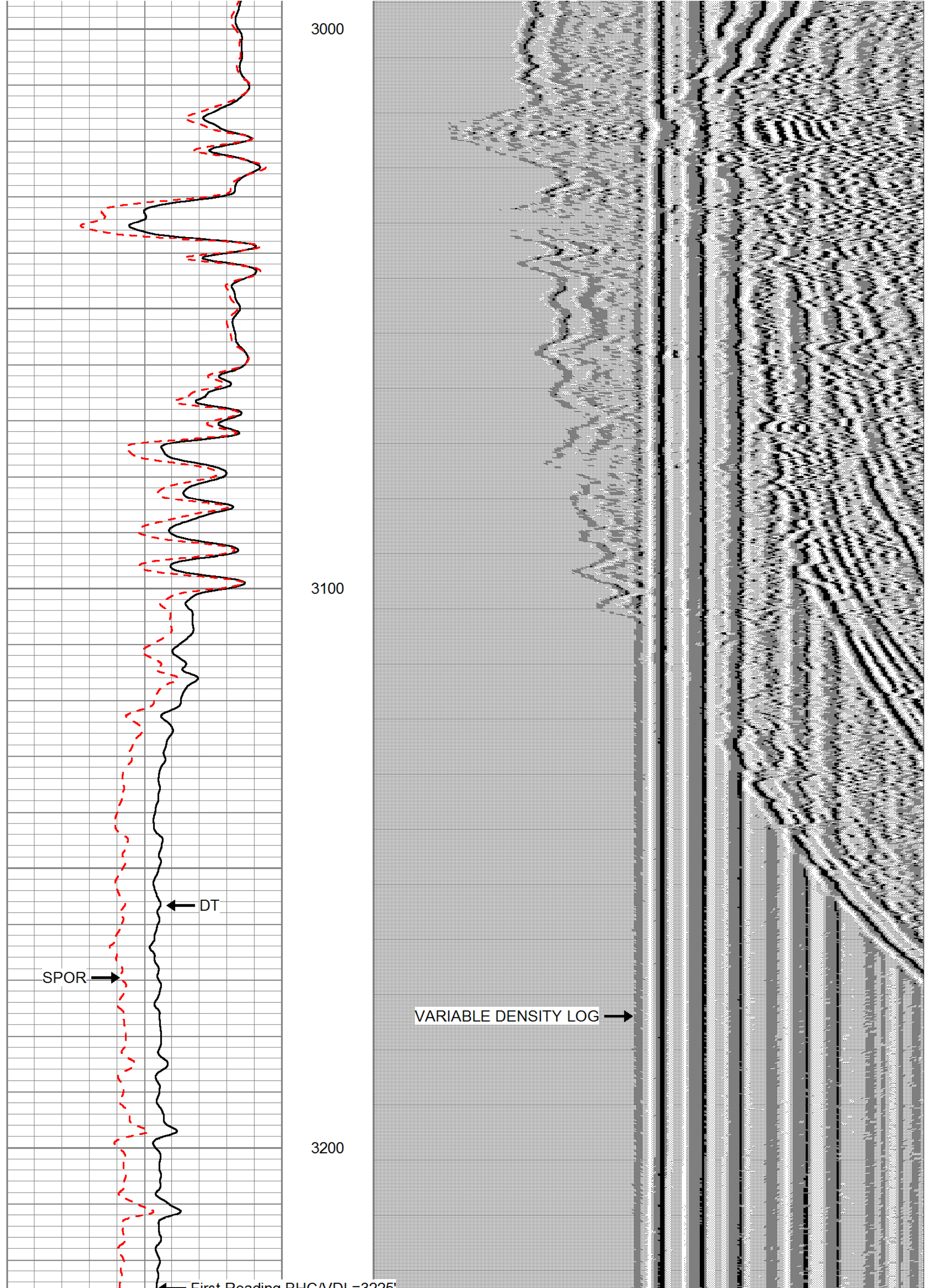
Database File: ltp1b.db
Dataset Pathname: run10/MAIN
Presentation Format: son_vdl
Dataset Creation: Wed Nov 30 11:42:24 2011
Charted by: Depth in Feet scaled 1:240



MV Geophysical

REPEAT SECTION

Database File: ltp1b.db
Dataset Pathname: run10/REPEAT
Presentation Format: son_vdl
Dataset Creation: Wed Nov 30 15:24:26 2011
Charted by: Depth in Feet scaled 1:240



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

Dataset: ltp1b.db: field/well/run10/pass6
Total Length: 16.00 ft
Total Weight: 127.00 lb
O.D. 3.50 in

MV Geophysical

Company	Layne Christensen Company
Well	Turkey Point EW-1
Field	Florida City
County	Miami-Dade
State	Florida
Country	USA

MV Geophysical

DUAL INDUCTION
LL3 / SP
LOG

Company	Layne Christensen Company
Well	Turkey Point EW-1
Field	Florida City
County	Miami-Dade
State/Prv	Florida

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade State/Prv Florida

Location FPL Turkey Point Power Plant
LAT: 25 25' 19" N LONG: 80 20' 08" W
McNabb Hydrogeologic Consulting, Inc.

Other Services
XY/GR,FCT
DIL,BHC,FLO
TDS,DHTV

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

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

Date	30-NOV-2011
Run Number	NINE
Depth Driller	3230'
Depth Logger	3233'
Bottom Logged Interval	3231'
Top Log Interval	1535'
Open Hole Size	12.25"
Type Fluid	H2O
Density / Viscosity	NA/NA
Max. Recorded Temp.	see FCT log
Estimated Cement Top	SURFACE
Time Well Ready	07:30 11/30/2011
Time Logger on Bottom	12:00 11/30/2011
Equipment Number	MVGS-1
Location	Ft. Myers
Recorded By	S.Miller/C.Miller
Witnessed By	M.Classen (ASRus) K.Greuel (LCC)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'	FIVE	12.25"	1090'	1655'
TWO	62.5"	SURFACE	259'	SIX	42.5"	1090'	1542'
THREE	12.25"	255'	1090'	SEVEN	12.25"	1535'	3230'
FOUR	52.5"	255'	1095'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String	54"	0.375" WT	SURFACE	255'
Production String	44"	0.375" WT	SURFACE	1090'
Liner	34"	0.375" WT	SURFACE	1535'
Invoice No.	2011209	LTP1B.db	8fld/las/pdf	* FINAL PRINT *

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Comments

CAUTION: Presented in a non standard Scale.

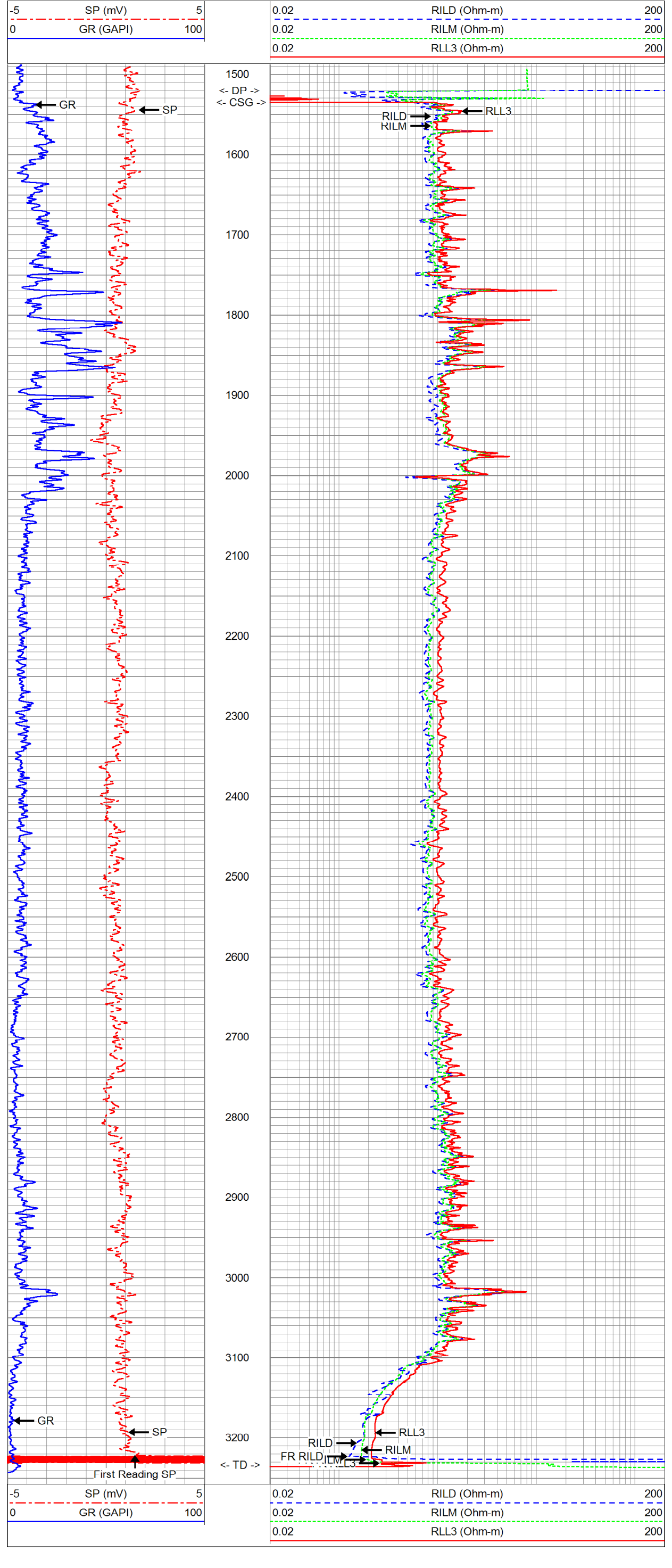
Rw=0.209 ohm @ 76.6 degF

Drill Pipe set to 1520'

MV Geophysical

MAIN PASS

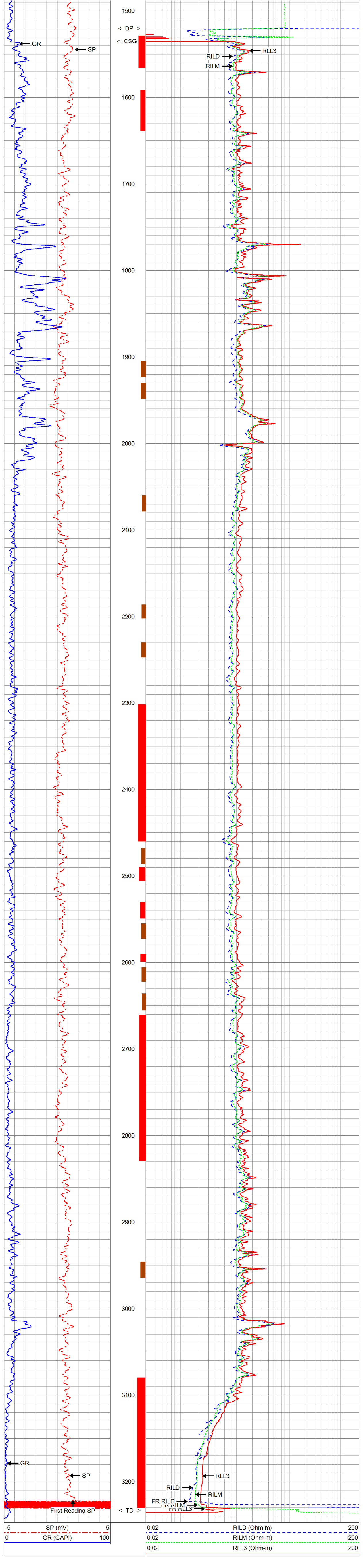
Database File: ltp1b.db
Dataset Pathname: run10/MAIN
Presentation Format: dil02200
Dataset Creation: Wed Nov 30 11:42:24 2011
Charted by: Depth in Feet scaled 1:1200



MV Geophysical

MAIN PASS

Database File: ltp1b.db
Dataset Pathname: run10/MAIN
Presentation Format: dil02200
Dataset Creation: Wed Nov 30 11:42:24 2011
Charted by: Depth in Feet scaled 1:600



MV Geophysical

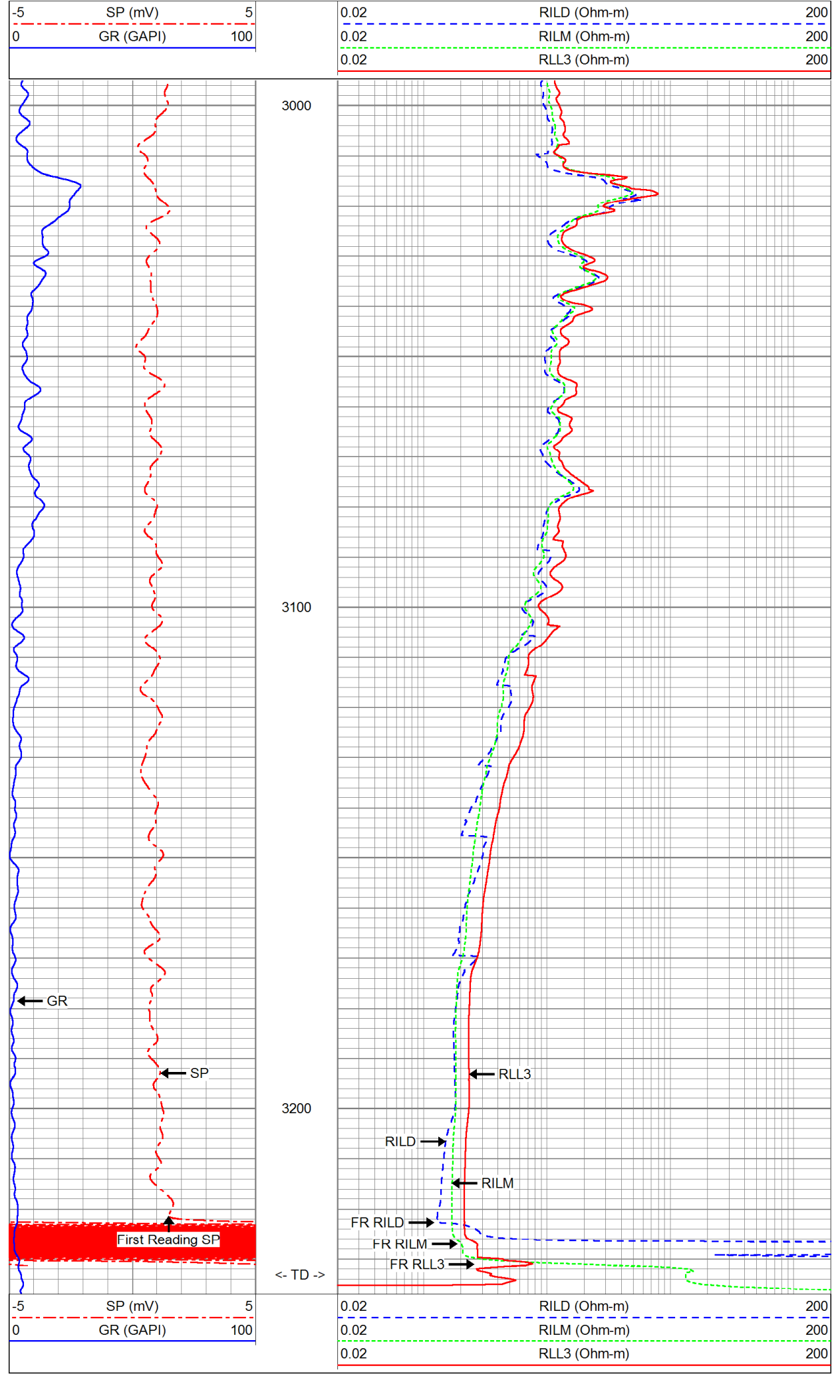
MAIN PASS

Database File: ltp1b.db
Dataset Pathname: run10/MAIN
Presentation Format: dil02200
Dataset Creation: Wed Nov 30 11:42:24 2011
Charted by: Depth in Feet scaled 1:240

MV Geophysical

REPEAT SECTION

Database File: ltp1b.db
Dataset Pathname: run10/REPEAT
Presentation Format: dil02200
Dataset Creation: Wed Nov 30 15:24:26 2011
Charted by: Depth in Feet scaled 1:240



Calibration Report

Database File: ltp1b.db
Dataset Pathname: run10/pass5
Dataset Creation: Wed Nov 30 12:59:21 2011 by Log VER_5.3

Dual Induction Calibration Report

Serial-Model:	5390-R
Surface Cal Performed:	Wed Apr 21 11:17:23 2010
Downhole Cal Performed:	Wed Apr 21 11:04:55 2010
After Survey Verification Performed:	Wed Apr 21 11:04:55 2010

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.050	0.645	V	0.000	400.000	mmho-m	672.269	-33.613
Medium	0.018	0.735	V	0.000	464.000	mmho-m	647.120	-11.545
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.641	V	0.000	400.000	mmho-m	634.921	-6.984
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	2.516	0.025	V	494.500	2.000	Ohm-m	197.707	-2.972

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: ltp1b.db: field/well/run10/pass5
Total Length: 20.90 ft
Total Weight: 345.00 lb
O.D. 4.00 in

MV Geophysical

Company	Layne Christensen Company
Well	Turkey Point EW-1
Field	Florida City
County	Miami-Dade
State	Florida
Country	USA

FPL-005C-503

MV Geophysical

FLUID CONDUCTIVITY TEMPERATURE LOG

Company	Layne Christensen Company
Well	Turkey Point EW-1
Field	Florida City
County	Miami-Dade
State/Prv	Florida

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade State/Prv Florida
Location FPL Turkey Point Power Plant
LAT: 25 25' 19" N LONG: 80 20' 08" W
McNabb Hydrogeologic Consulting, Inc.
Other Services XY/GR,FCT DIL,BHC,FLO TDS,DHTV
Permanent Datum Pad Level Elevation
Log Measured From Pad Level
Drilling Measured From Pad Level
Elevation K.B. D.F. G.L.

Date	30-NOV-2011	
Run Number	NINE	
Depth Driller	3230'	
Depth Logger	3233'	
Bottom Logged Interval	3233'	
Top Log Interval	1475'	
Open Hole Size	12.25"	
Type Fluid	H2O	
Density / Viscosity	NA/NA	
Max. Recorded Temp.	see FCT log	
Estimated Cement Top	SURFACE	
Time Well Ready	07:30 11/30/2011	
Time Logger on Bottom	10:15 11/30/2011 S	20:30 11/30/2011 D
Equipment Number	MVGS-1	
Location	Ft. Myers	
Recorded By	S.Miller/C.Miller	
Witnessed By	M.Classen (ASRus)	E.Meyer (MHC) K.Greuel (LCC)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'	FIVE	12.25"	1090'	1655'
TWO	62.5"	SURFACE	259'	SIX	42.5"	1090'	1542'
THREE	12.25"	255'	1090'	SEVEN	12.25"	1535'	3230'
FOUR	52.5"	255'	1095'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String	54"	0.375" WT	SURFACE	255'
Production String	44"	0.375" WT	SURFACE	1090'
Liner	34"	0.375" WT	SURFACE	1535'
Invoice No.	2011209	LTP1B.db	8fcd/las/pdf	* FINAL PRINT *

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Comments

STATIC and DYNAMIC down passes were performed.
Cw =47,940 uS/cm @ 24.8 degC
FLUID RESISTIVITY CALIBRATION REPORT (Performed: 9-NOV-11 10:45)

uS/cm	CPS
223.7	3045.14
2564.78	2934.34
4417.01	2667.37

TEMPERATURE CALIBRATION REPORT (Performed: 9-NOV-11 10:15)

DEG-F	CPS
34.5	141.83
137.5	2605.14

MV Geophysical

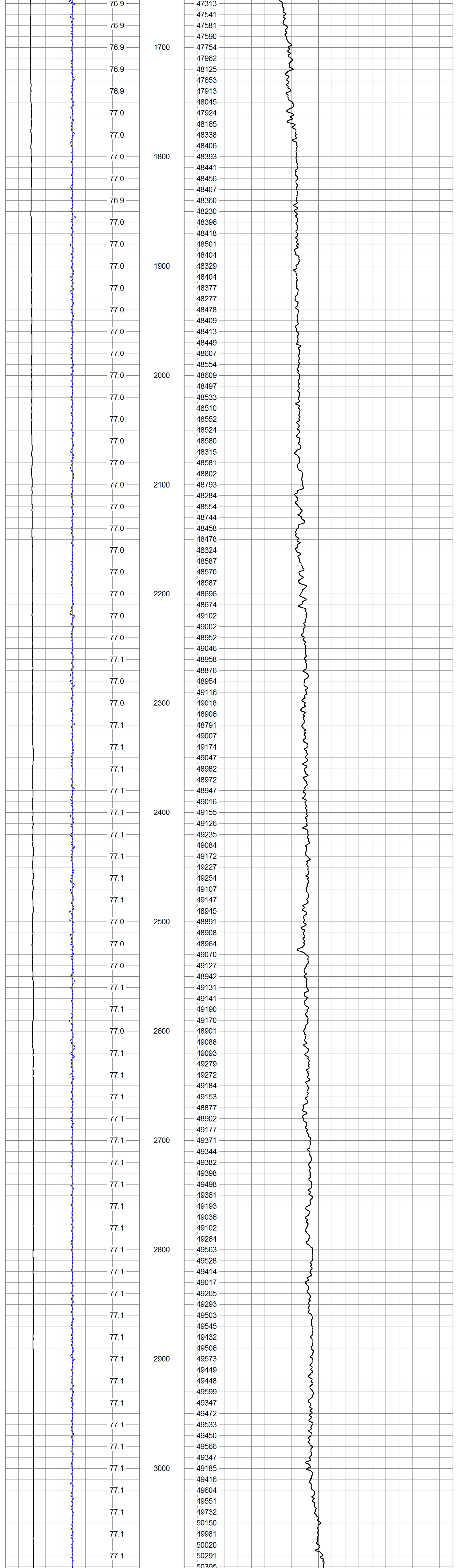
DYNAMIC FCT DOWN

Database File: ltp1b.db
Dataset Pathname: run10/DFCT
Presentation Format: fcttp3
Dataset Creation: Wed Nov 30 21:18:16 2011
Charted by: Depth in Feet scaled 1:600

MV Geophysical

STATIC FCT DOWN

Database File: ltp1b.db
Dataset Pathname: run10/SFCT
Presentation Format: fcttp3
Dataset Creation: Wed Nov 30 20:59:56 2011
Charted by: Depth in Feet scaled 1:600



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: ltp1b.db: field/well/run10/pass15
Total Length: 5.12 ft
Total Weight: 20.00 lb
O.D. 1.90 in

MV Geophysical

Company	Layne Christensen Company
Well	Turkey Point EW-1
Field	Florida City
County	Miami-Dade
State	Florida
Country	USA

MV Geophysical

FLOWMETER LOG

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade State/Prv Florida
Location FPL Turkey Point Power Plant
LAT: 25 25' 19" N LONG: 80 20' 08" W
McNabb Hydrogeologic Consulting, Inc.

Other Services
XY/GR,FCT
DIL,BHC,FLO
TDS,DHTV

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

Date	30-NOV-2011
Run Number	NINE
Depth Driller	3230'
Depth Logger	3233'
Bottom Logged Interval	3233'
Top Log Interval	1475'
Open Hole Size	12.25"
Type Fluid	H2O
Density / Viscosity	NA/NA
Max. Recorded Temp.	see FCT log
Estimated Cement Top	SURFACE
Time Well Ready	07:30 11/30/2011
Time Logger on Bottom	15:30 11/30/2011
Equipment Number	MVGS-1
Location	Ft. Myers
Recorded By	S.Miller/C.Miller
Witnessed By	M.Classen (ASRus) / K.Greuel (LCC)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'	FIVE	12.25"	1090'	1655'
TWO	62.5"	SURFACE	259'	SIX	42.5"	1090'	1542'
THREE	12.25"	255'	1090'	SEVEN	12.25"	1535'	3230'
FOUR	52.5"	255'	1095'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String	54"	0.375" WT	SURFACE	255'
Production String	44"	0.375" WT	SURFACE	1090'
Liner	34"	0.375" WT	SURFACE	1535'
Invoice No.	2011209	LTP1B.db	8fld/las/pdf	* FINAL PRINT *

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Comments

STATIC and DYNAMIC down passes were made at 60 fpm.

NO station performed.

Q =~250 gpm

Drill Pipe set to 1520'

MV Geophysical

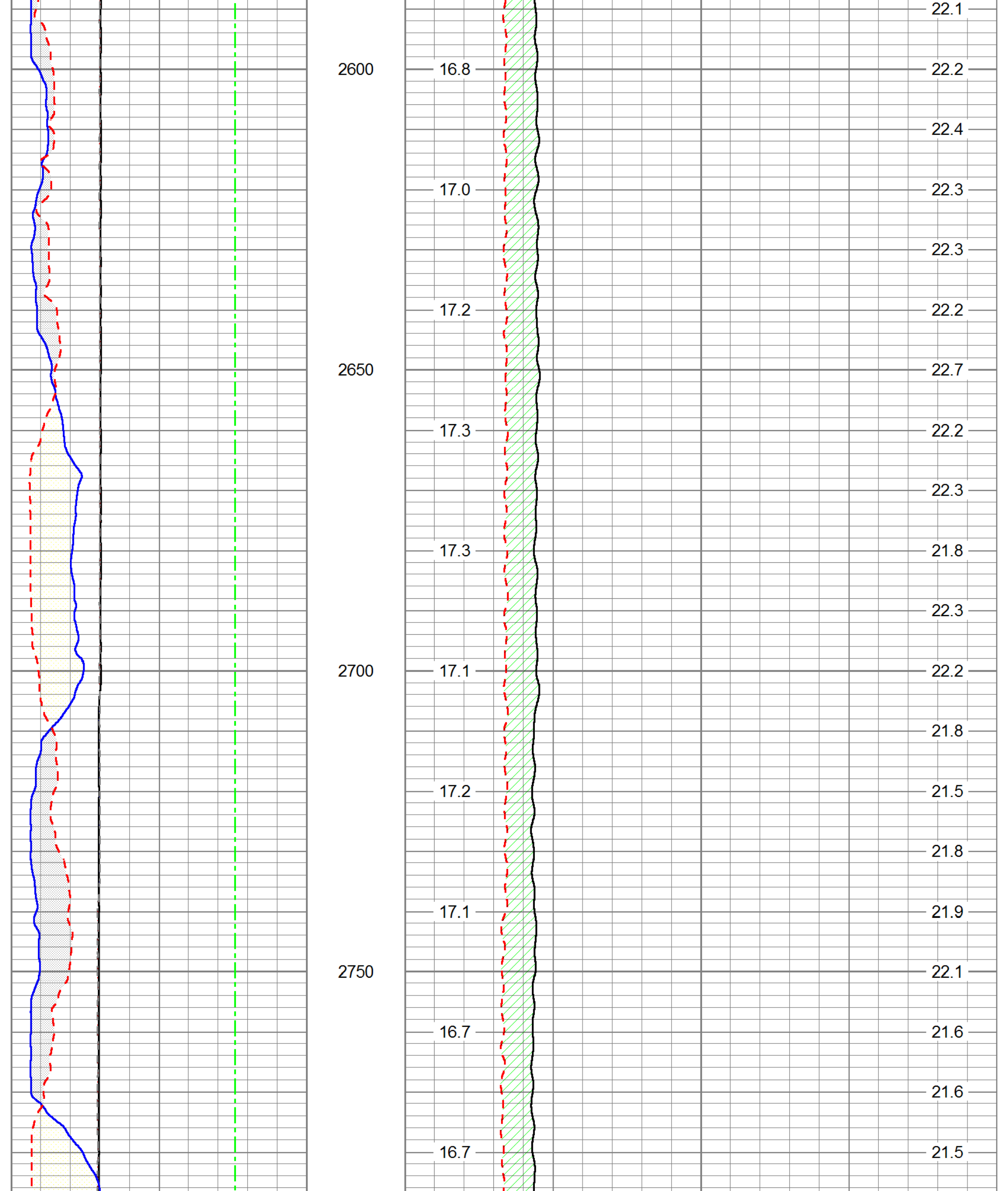
S/D DOWN @ 60 fpm

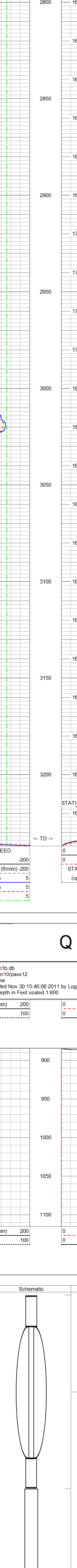
Database File: ltp1b.db
Dataset Pathname: run10/SD60
Presentation Format: q-100
Dataset Creation: Wed Nov 30 20:14:36 2011
Charted by: Depth in Feet scaled 1:240

MV Geophysical

Q Calibration Down

Database File: ltp1b.db
Dataset Pathname: run10/pass12
Presentation Format: flow
Dataset Creation: Wed Nov 30 15:46:06 2011 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 FLOWN	0.00 0.00					

Dataset: ltp1b.db: field/well/run10/pass12
Total Length: 9.80 ft
Total Weight: 85.00 lb
O.D. 3.75 in

MV Geophysical

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade
State Florida Country USA

MV Geophysical

TDS COMPILATION LOG

Company	Layne Christensen Company
Well	Turkey Point EW-1
Field	Florida City
County	Miami-Dade
State/Prv	Florida

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade State/Prv Florida

Location
FPL Turkey Point Power Plant
LAT: 25 25' 19" N LONG: 80 20' 08" W
McNabb Hydrogeologic Consulting, Inc.

Other Services
XY/GR,FCT
DIL,BHC,FLO
TDS,DHTV

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

Date	30-NOV-2011		
Run Number	NINE		
Depth Driller	3230'		
Depth Logger	3233'		
Bottom Logged Interval	3233'		
Top Log Interval	1475'		
Open Hole Size	12.25"		
Type Fluid	H2O		
Density / Viscosity	NA/NA		
Max. Recorded Temp.	see FCT log		
Estimated Cement Top	SURFACE		
Time Well Ready	07:30 11/30/2011		
Time Logger on Bottom	08:15 11/30/2011		
Equipment Number	MVGS-1		
Location	Ft. Myers		
Recorded By	S.Miller/C.Miller		
Witnessed By	M.Classen (ASRus)	E.Meyer (MHC)	K.Greuel (LCC)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'	FIVE	12.25"	1090'	1655'
TWO	62.5"	SURFACE	259'	SIX	42.5"	1090'	1542'
THREE	12.25"	255'	1090'	SEVEN	12.25"	1535'	3230'
FOUR	52.5"	255'	1095'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String	54"	0.375" WT	SURFACE	255'
Production String	44"	0.375" WT	SURFACE	1090'
Liner	34"	0.375" WT	SURFACE	1535'
Invoice No.	2011209	LTP1B.db	8fd/las/pdf	* FINAL PRINT *

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

Comments

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

Drill Pipe set to 1520'

MV Geophysical

MAIN PASS

Database File: ltp1b.db
Dataset Pathname: run10/MAIN
Presentation Format: tdstp1
Dataset Creation: Wed Nov 30 11:42:24 2011
Charted by: Depth in Feet scaled 1:240

240 Delta T (usec/ft) 40	100 TDS (ppm) 10000	0 RLL3 (Ohm-m) 10
100 spor (pu) 0	10000 TDS (ppm) 1e+006	0 RILM (Ohm-m) 10
5 XCAL (in) 35		0 RILD (Ohm-m) 10
5 YCAL (in) 35		
0 Gamma Ray (GAPI) 100		

240 Delta T (usec/ft) 40	100 TDS (ppm) 10000	0 RLL3 (Ohm-m) 10
100 spor (pu) 0	10000 TDS (ppm) 1e+006	0 RILM (Ohm-m) 10
5 XCAL (in) 35		0 RILD (Ohm-m) 10
5 YCAL (in) 35		
0 Gamma Ray (GAPI) 100		

MV Geophysical

Company	Layne Christensen Company
Well	Turkey Point EW-1
Field	Florida City
County	Miami-Dade
State	Florida

Country USA

Company	LAYNE CHRISTENSEN COMPANY
Well	TURKEY POINT EW-1
Field	FLORIDA CITY
County	MIAMI-DADE
State	FLORIDA

X-Y CALIPER GAMMA RAY LOG

Company	LAYNE CHRISTENSEN COMPANY
Well	TURKEY POINT EW-1
Field	FLORIDA CITY
County	MIAMI-DADE
State	FLORIDA

Location: API # :

FPL TURKEY POINT POWER PLANT
LAT: 25 25'19"N LONG: 80 20' 08" W
MC NABB HYDROGEOLOGIC CONSULTING, INC.
SEC TWP RGE

Other Services
NONE

Permanent Datum	GL	Elevation
Log Measured From	GL	
Drilling Measured From	GL	

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

Date	6-JAN-2012		
Run Number	TEN		
Depth Driller	3230'		
Depth Logger	2742'		
Bottom Logged Interval	2742'		
Top Log Interval	CASING		
Open Hole Size	12.25"	28.00"	
Type Fluid	WATER		
Density / Viscosity	NA		
Max. Recorded Temp.	NA		
Estimated Cement Top	SURFACE		
Time Well Ready	0000		
Time Logger on Bottom	0000		
Equipment Number	VA-202		
Location	JUIPTER		
Recorded By	LEE		
Witnessed By	S.DURALL		

Borehole Record				Borehole Record			
Run Number	Bit	From	To	Run Number	Bit	From	To
TEN	28"	CASING	2270'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	34"	.375 W.T	SURFACE	1535'
Prot. String				
Production String				
Liner				

<<< Fold Here >>>

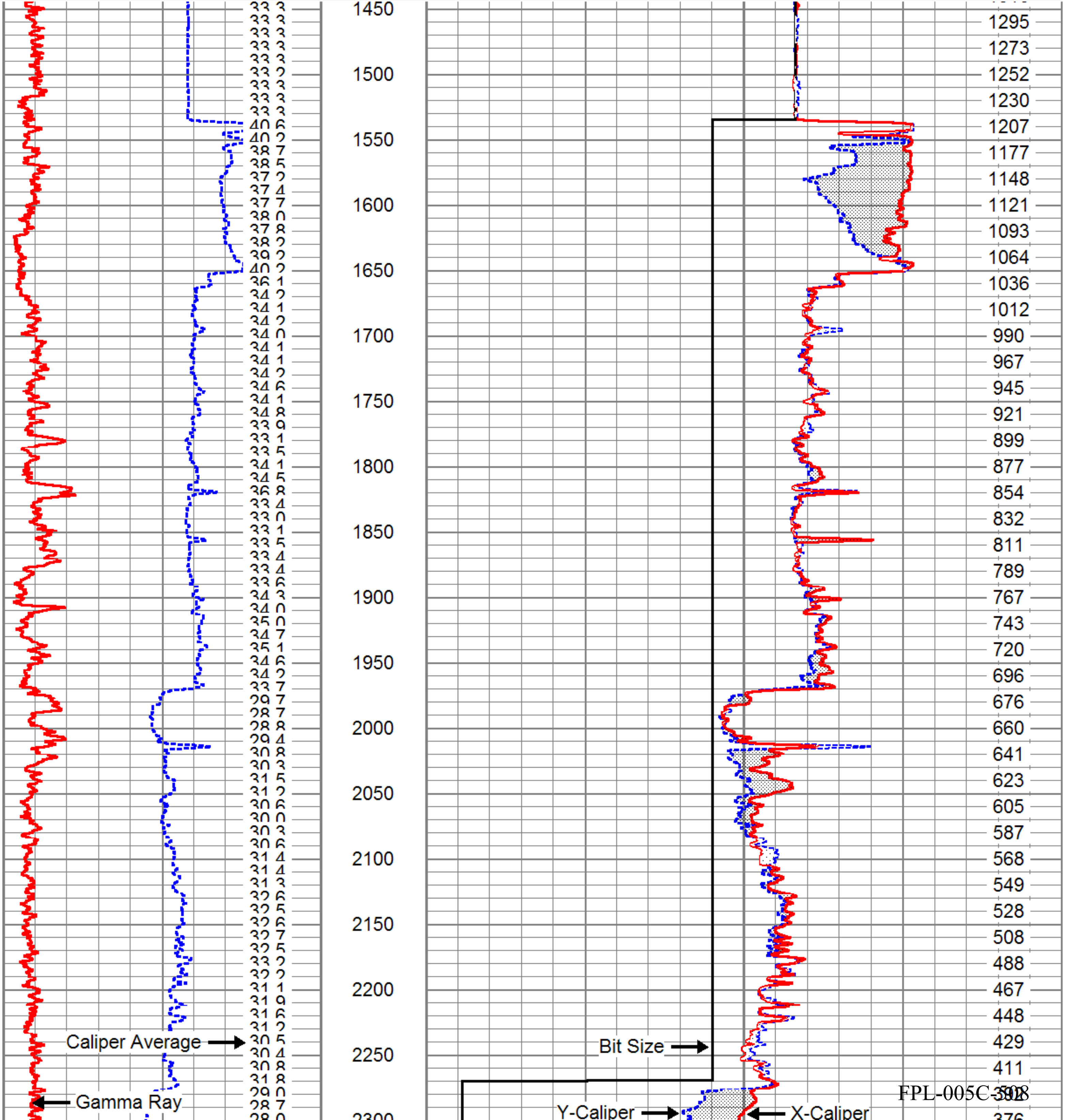
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

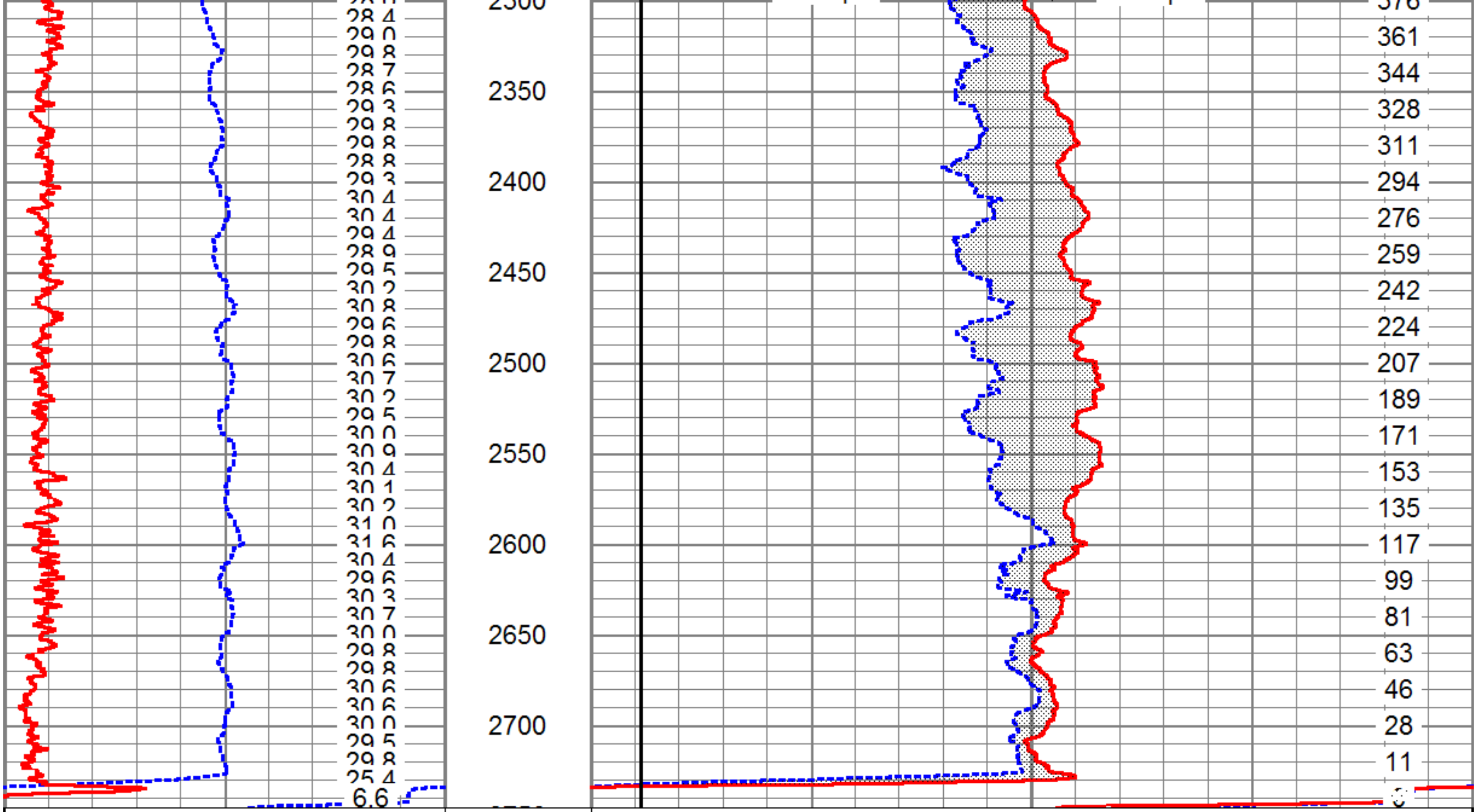
Comments

MAIN PASS

Database File:	tpew1.db
Dataset Pathname:	XYCMP1
Presentation Format:	xyc
Dataset Creation:	Fri Jan 06 15:30:37 2012 by Calc Open-Cased 071220
Charted by:	Depth in Feet scaled 1:1200

10	Caliper Average (in)	50		10	Y-Caliper (in)	50
0	Gamma Ray (GAPI)	100		10	X-Caliper (in)	50
	CALA (in)			10	Borehole ID (in)	50
					TBHV (bbl)	





10 Caliper Average (in) 50
0 Gamma Ray (GAPI) 100
CALA (in)

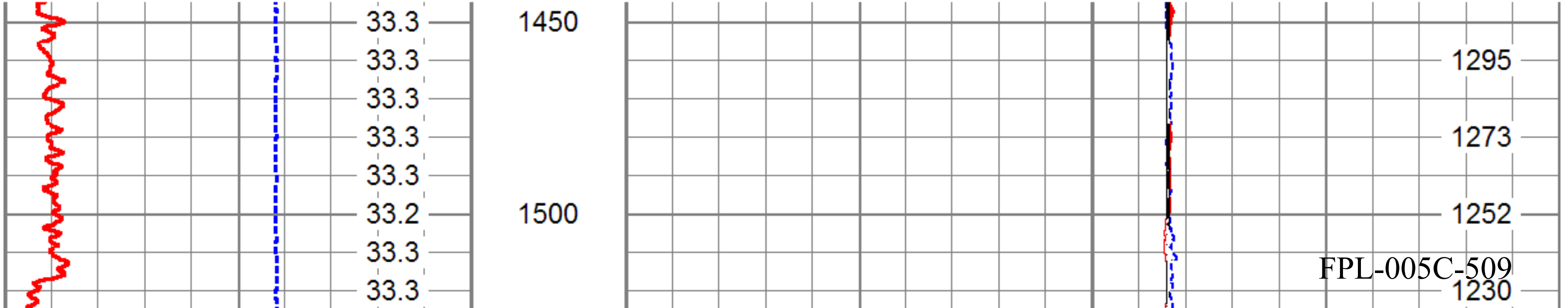
10 Y-Caliper (in) 50
10 X-Caliper (in) 50
10 Borehole ID (in) 50
TBHV
(bbl)

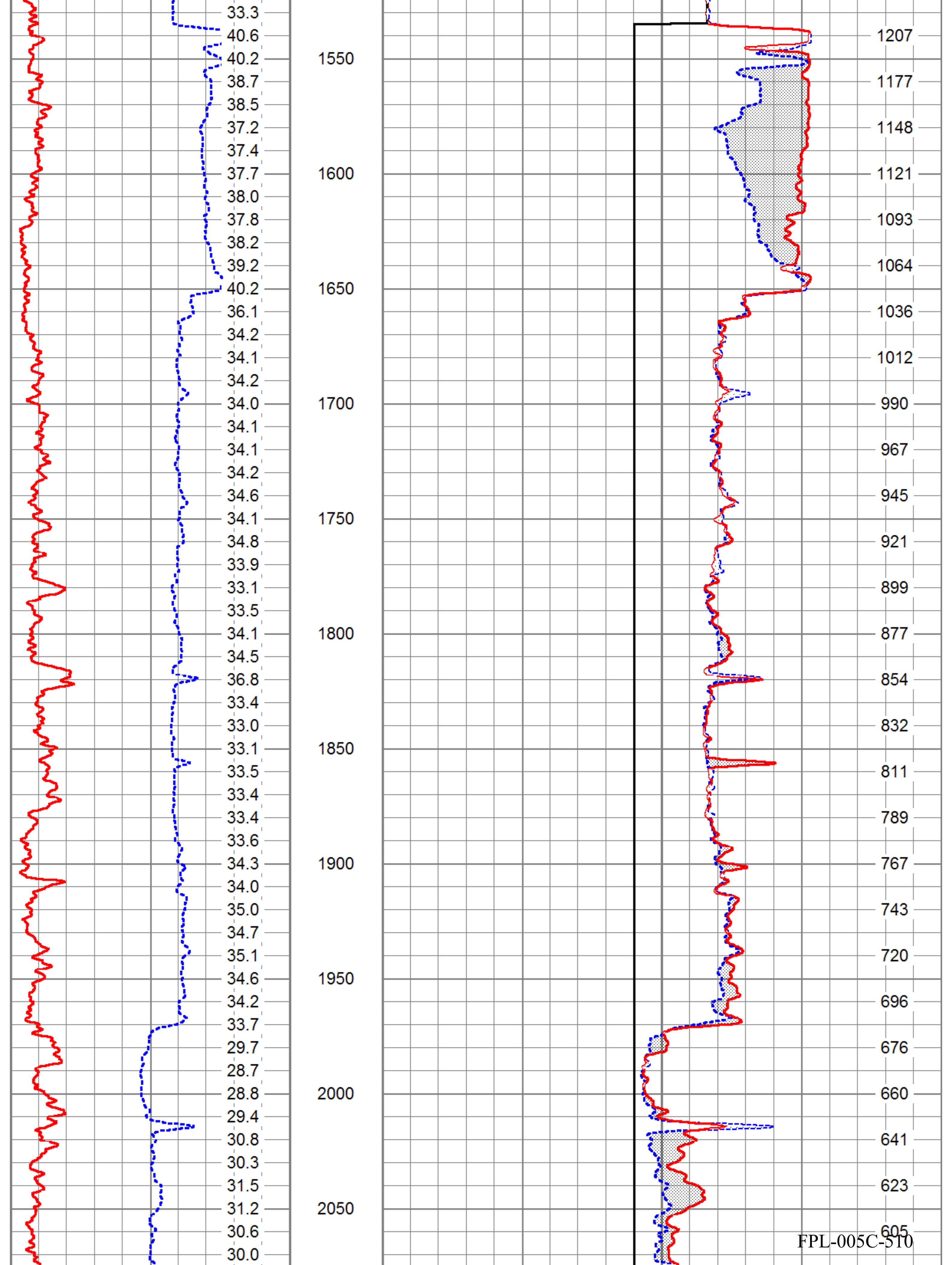
MAIN PASS

Database File:	tpew1.db
Dataset Pathname:	XYCMP1
Presentation Format:	xyc
Dataset Creation:	Fri Jan 06 15:30:37 2012 by Calc Open-Cased 071220
Charted by:	Depth in Feet scaled 1:600

10 Caliper Average (in) 50
0 Gamma Ray (GAPI) 100
CALA (in)

10 Y-Caliper (in) 50
10 X-Caliper (in) 50
10 Borehole ID (in) 50
TBHV
(bbl)

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38.7
38.5
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40.2
36.1
34.2
34.1
34.2
34.0
34.1
34.1
34.2
34.6
34.1
34.8
33.9
33.1
33.5
34.1
34.5
36.8
33.4
33.0
33.1
33.5
33.4
33.4
33.6
34.3
34.0
35.0
34.7
35.1
34.6
34.2
33.7
29.7
28.7
28.8
29.4
30.8
30.3
31.5
31.2
30.6
30.0
1550
1600
1650
1700
1750
1800
1850
1900
1950
2000
2050
1207
1177
1148
1121
1093
1064
1036
1012
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676
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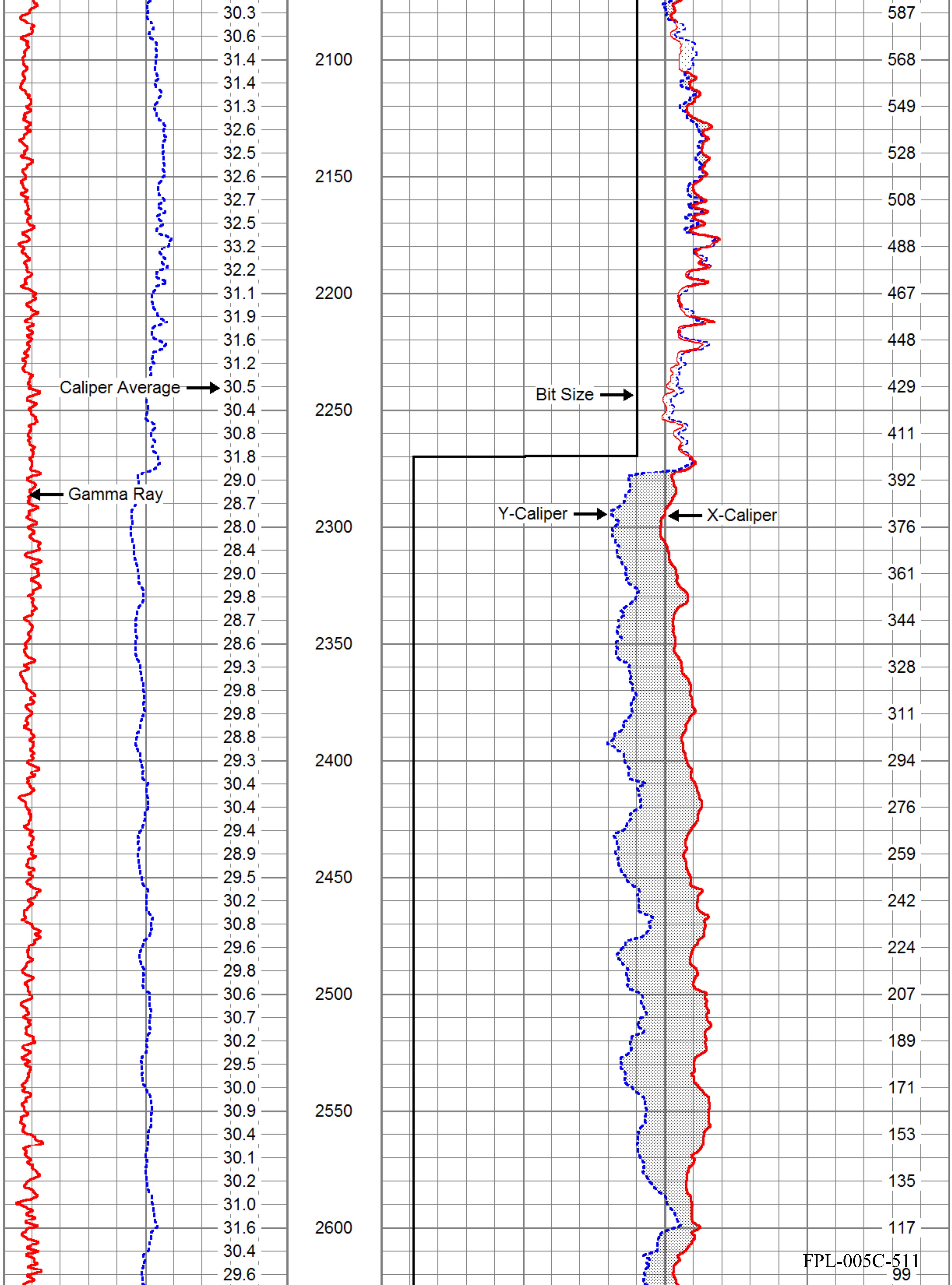
623
605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32.6
32.7
32.5
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31.1
31.9
31.6
31.2
Caliper Average
30.5
30.4
30.8
31.8
29.0
Gamma Ray
28.7
28.0
28.4
29.0
29.8
28.7
28.6
29.3
29.8
29.8
28.8
29.3
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30.4
29.4
28.9
29.5
30.2
30.8
29.6
29.8
30.6
30.7
30.2
29.5
30.0
30.9
30.4
30.1
30.2
31.0
31.6
30.4
29.6
2100
2150
2200
2250
2300
2350
2400
2450
2500
2550
2600
Bit Size
Y-Caliper
X-Caliper
587
568
549
528
508
488
467
448
429
411
392
376
361
344
328
311
294
276
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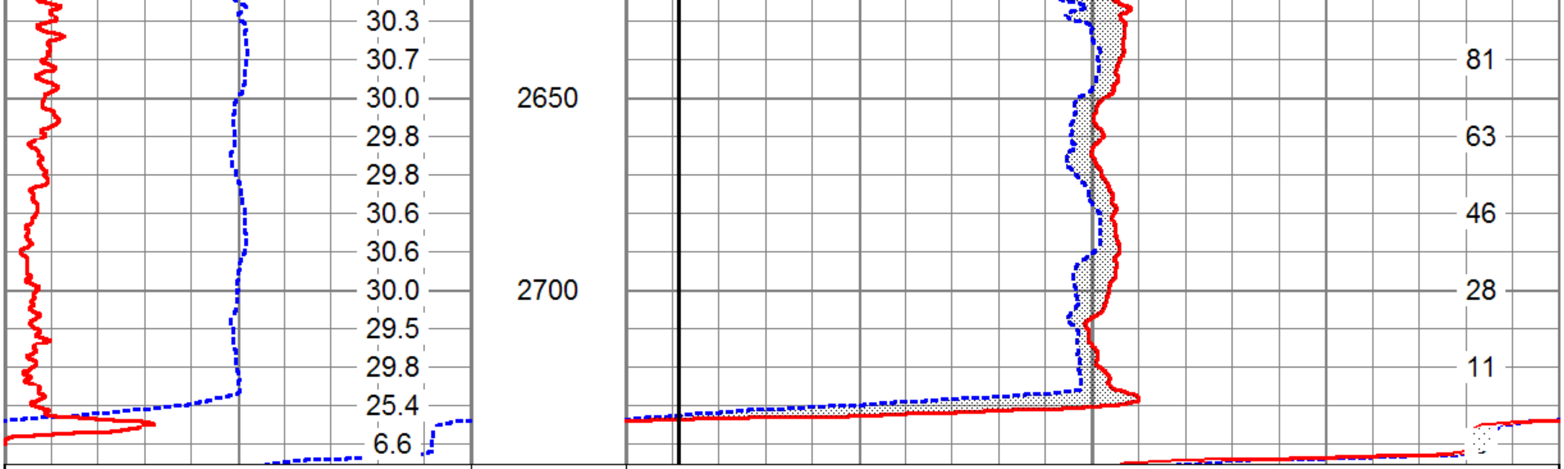
189
171
153
135
117
99



10 Caliper Average (in) 50
0 Gamma Ray (GAPI) 100
CALA (in)

10 Y-Caliper (in) 50
10 X-Caliper (in) 50
10 Borehole ID (in) 50
TBHV (bbl)

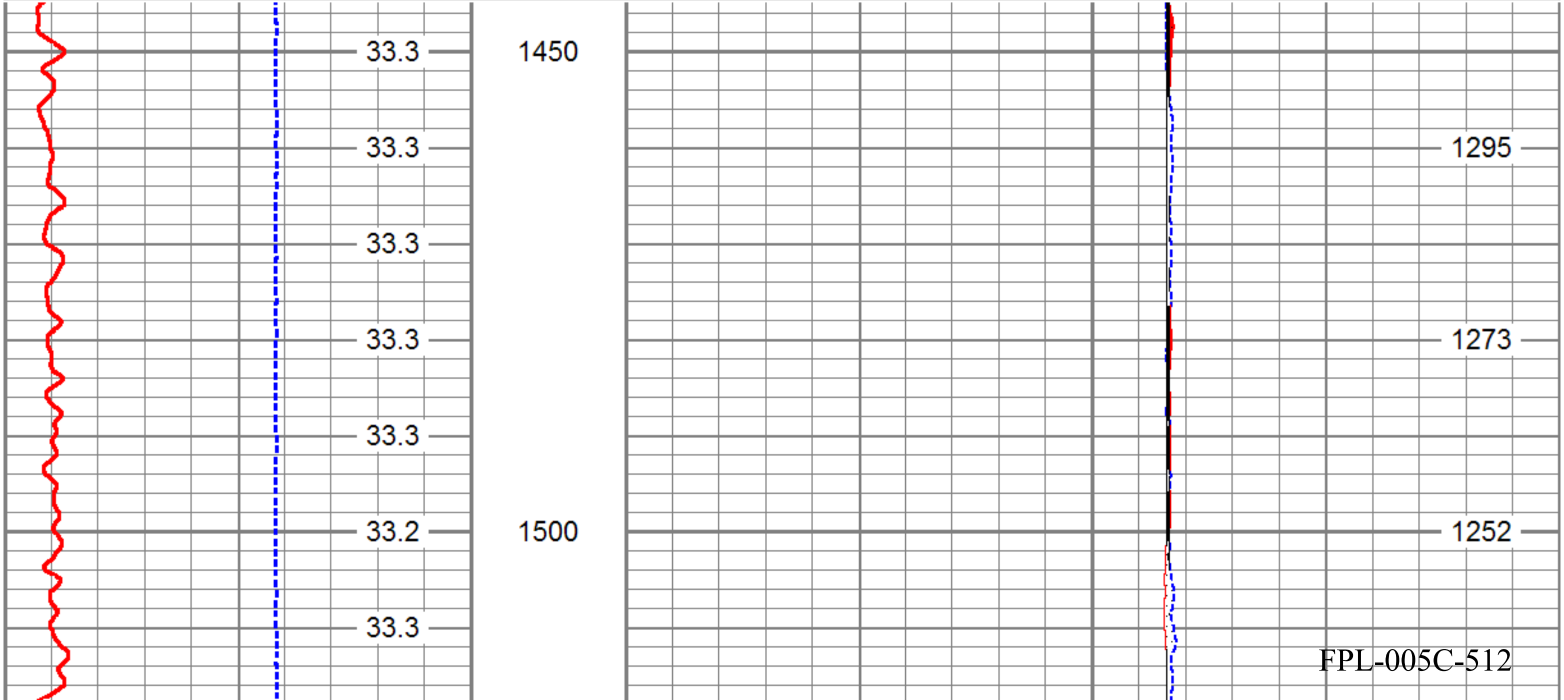
ALLWEBBS ENTERPRISES, INC.

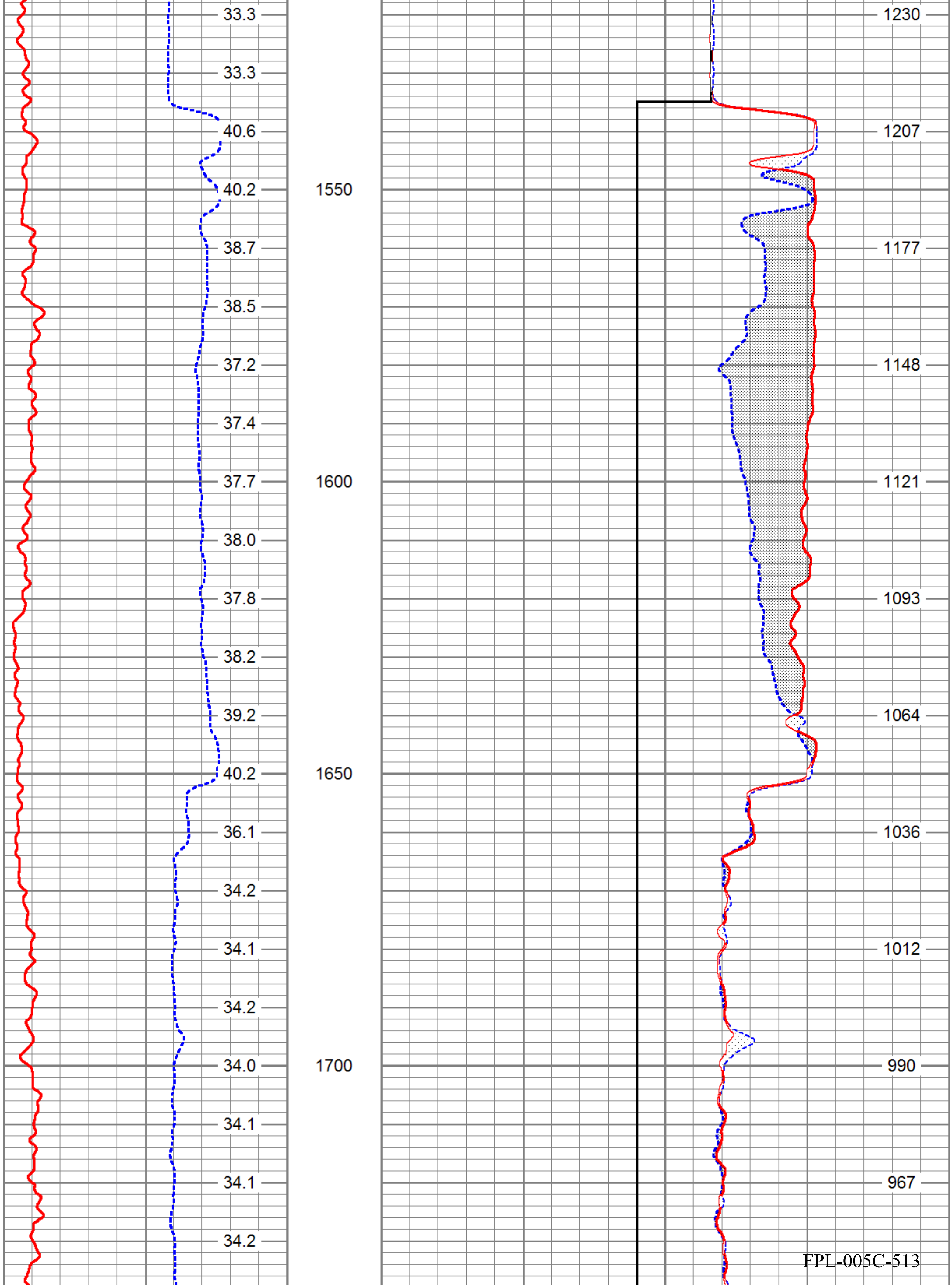
MAIN PASS

Database File: tpew1.db
Dataset Pathname: XYCMP1
Presentation Format: xyc
Dataset Creation: Fri Jan 06 15:30:37 2012 by Calc Open-Cased 071220
Charted by: Depth in Feet scaled 1:240

10 Caliper Average (in) 50
0 Gamma Ray (GAPI) 100
CALA (in)

10 Y-Caliper (in) 50
10 X-Caliper (in) 50
10 Borehole ID (in) 50
TBHV (bbl)

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37.7
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38.2
39.2
40.2
1650
36.1
34.2
34.1
34.2
34.0
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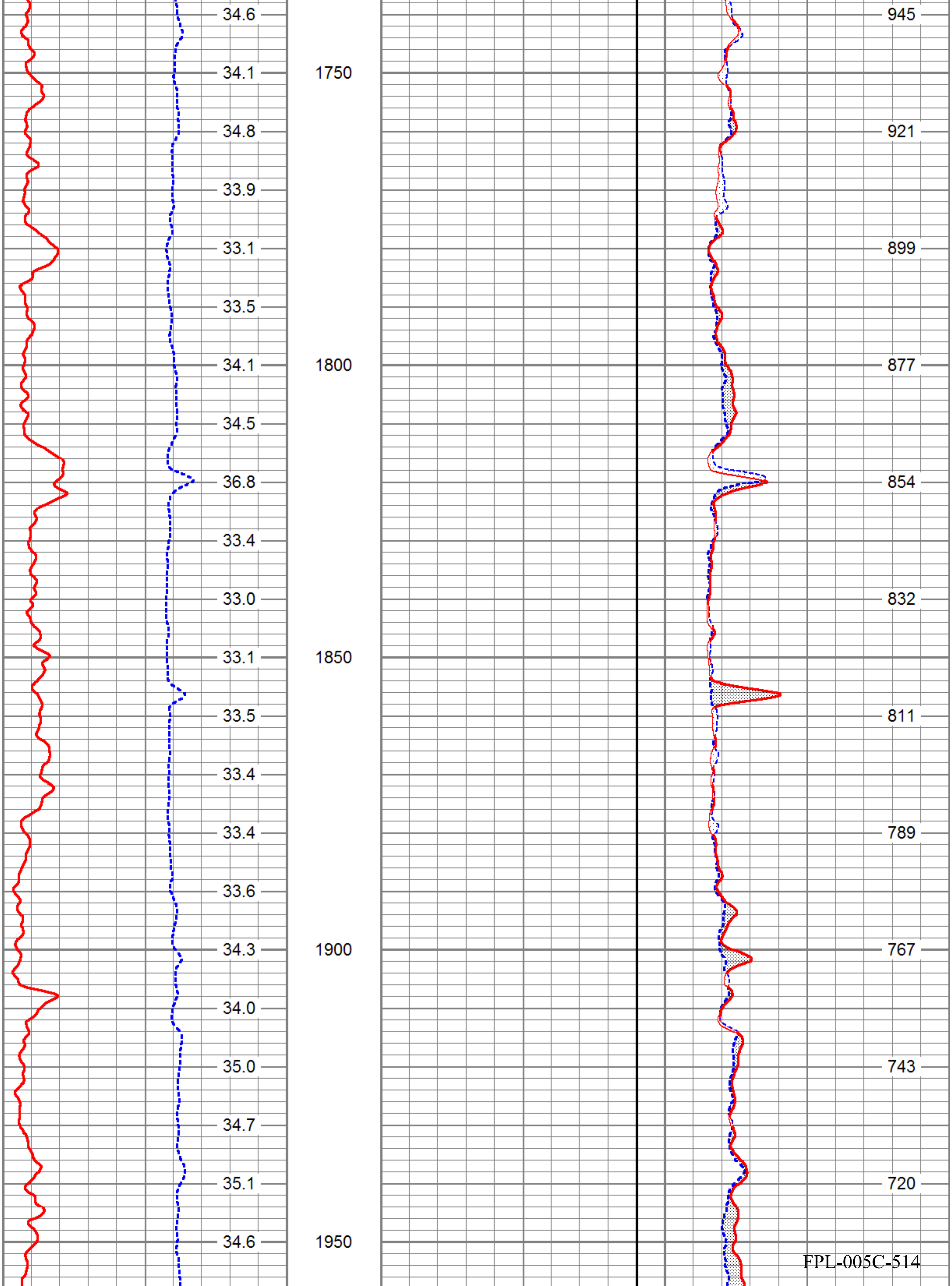
1036
1012
990
967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899
33.5
34.1
1800
877
34.5
36.8
854
33.4
33.0
832
33.1
1850
33.5
811
33.4
33.4
789
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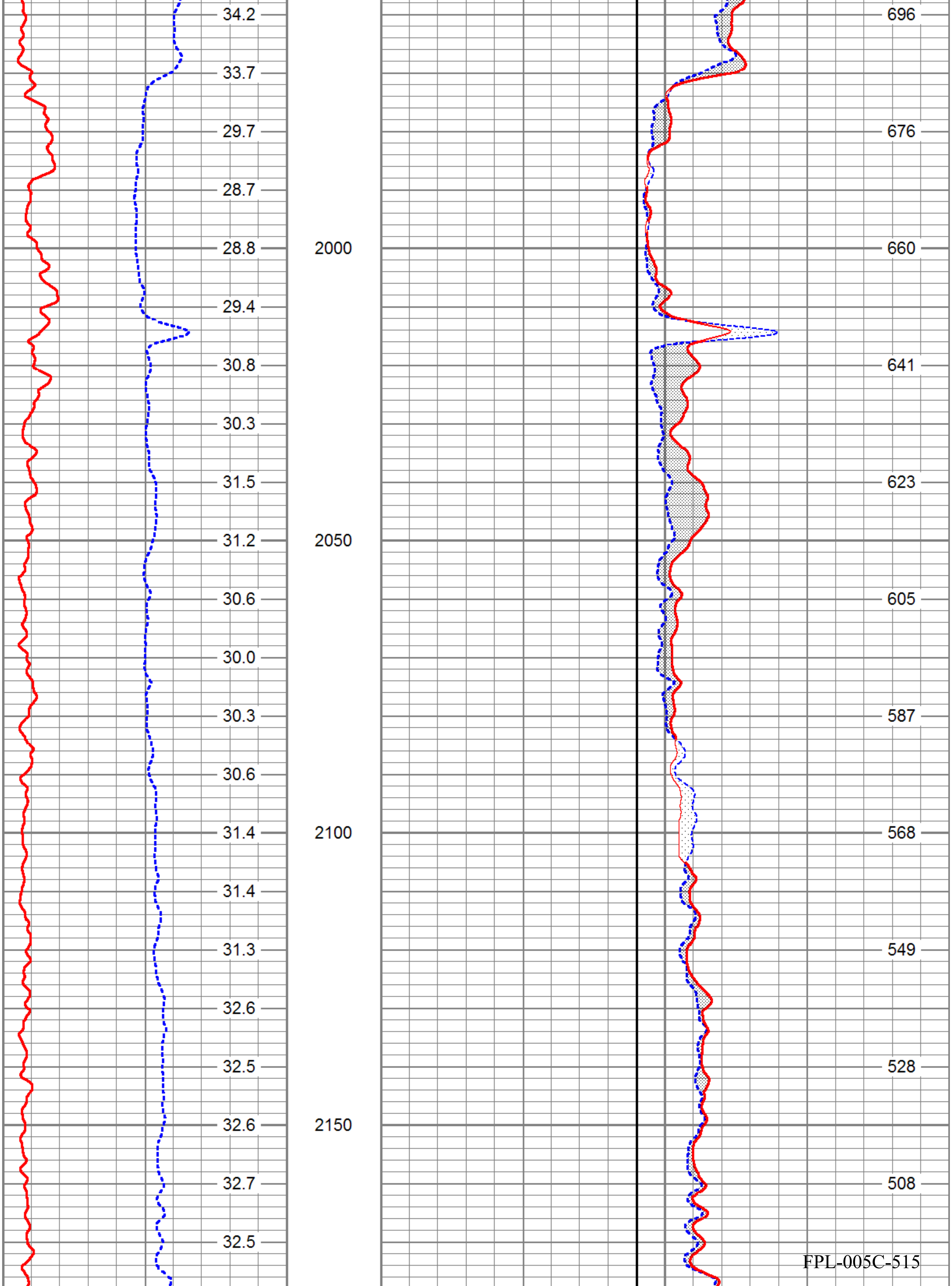
1900
767
34.0
35.0
743
34.7
35.1
720
34.6
1950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30.3
30.6
31.4
31.4
31.3
32.6
32.5
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2000
2050
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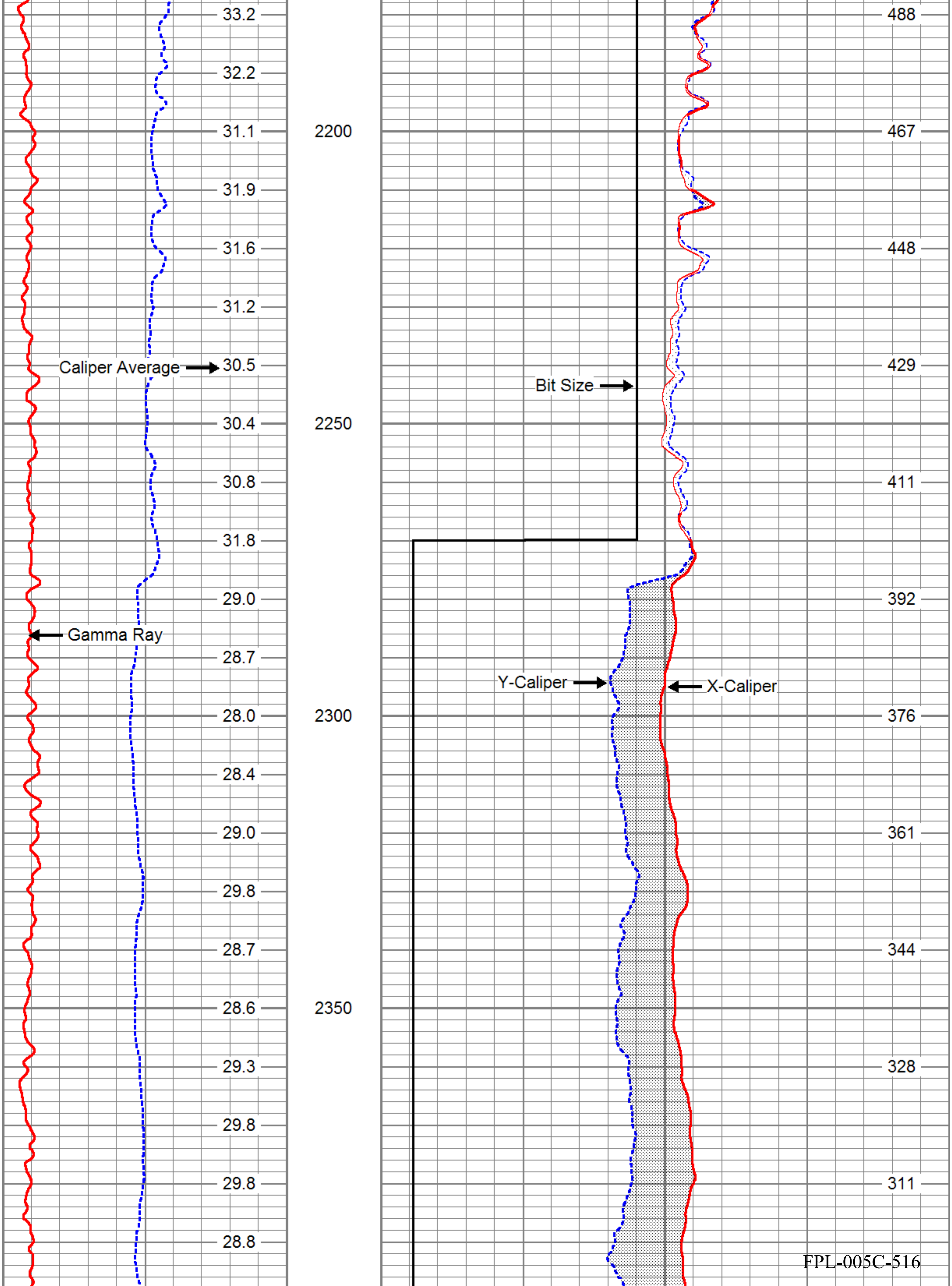
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31.9
31.6
31.2
Caliper Average
30.5
30.4
30.8
31.8
29.0
Gamma Ray
28.7
28.0
28.4
29.0
29.8
28.7
28.6
29.3
29.8
29.8
28.8
2200
2250
2300
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Bit Size
Y-Caliper
X-Caliper
488
467
448
429
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392
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361
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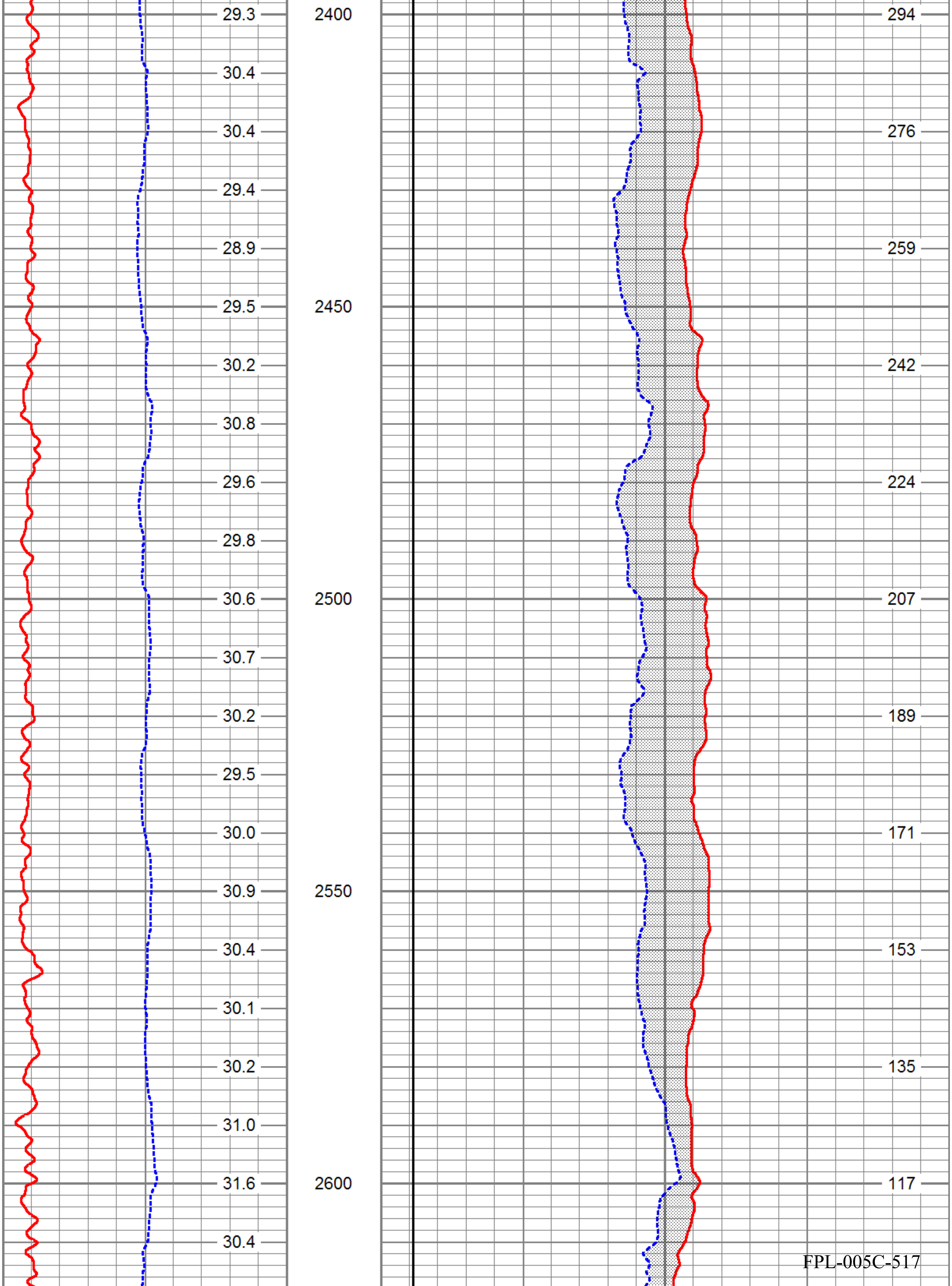
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29.5
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30.2
242
30.8
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2500
207
30.7
30.2
189
29.5
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171
30.9
2550
30.4
153
30.1
30.2
135
31.0
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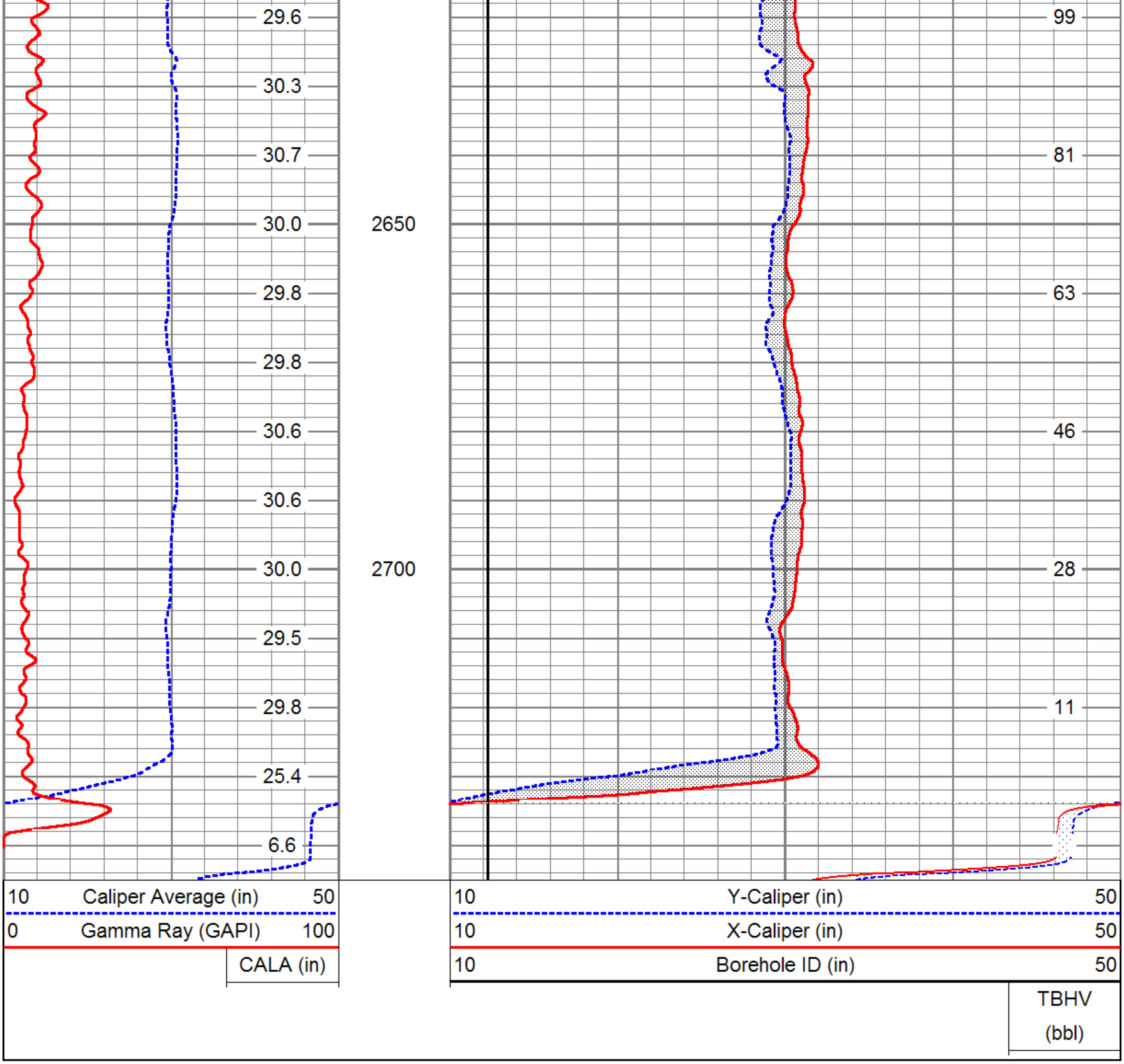
2600
117
30.4

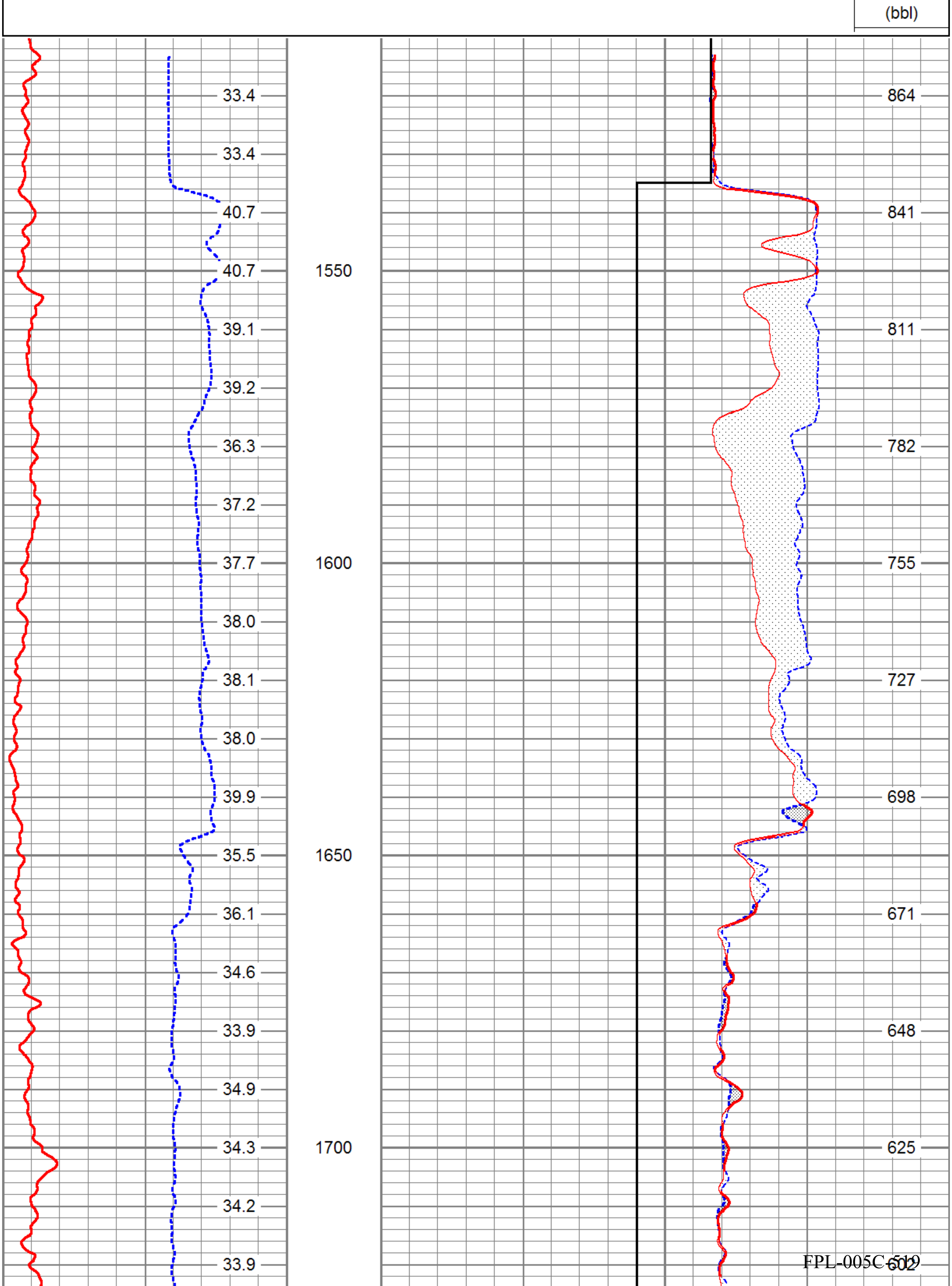


ALLWEBBS
ENTERPRISES, INC.

REPEAT PASS

Database File: tpew1.db
Dataset Pathname: XYCRP
Presentation Format: xyc
Dataset Creation: Fri Jan 06 15:34:33 2012 by Log Open-Cased 071220
Charted by: Depth in Feet scaled 1:240

10 Caliper Average (in) 50
0 Gamma Ray (GAPI) 100
CALA (in)
10 Y-Caliper (in) 50
10 X-Caliper (in) 50
10 Borehole ID (in) 50
TBHV


(bbl)
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36.3
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37.7
38.0
38.1
38.0
39.9
35.5
36.1
34.6
33.9
34.9
34.3
34.2
33.9
1550
1600
1650
1700
864
841
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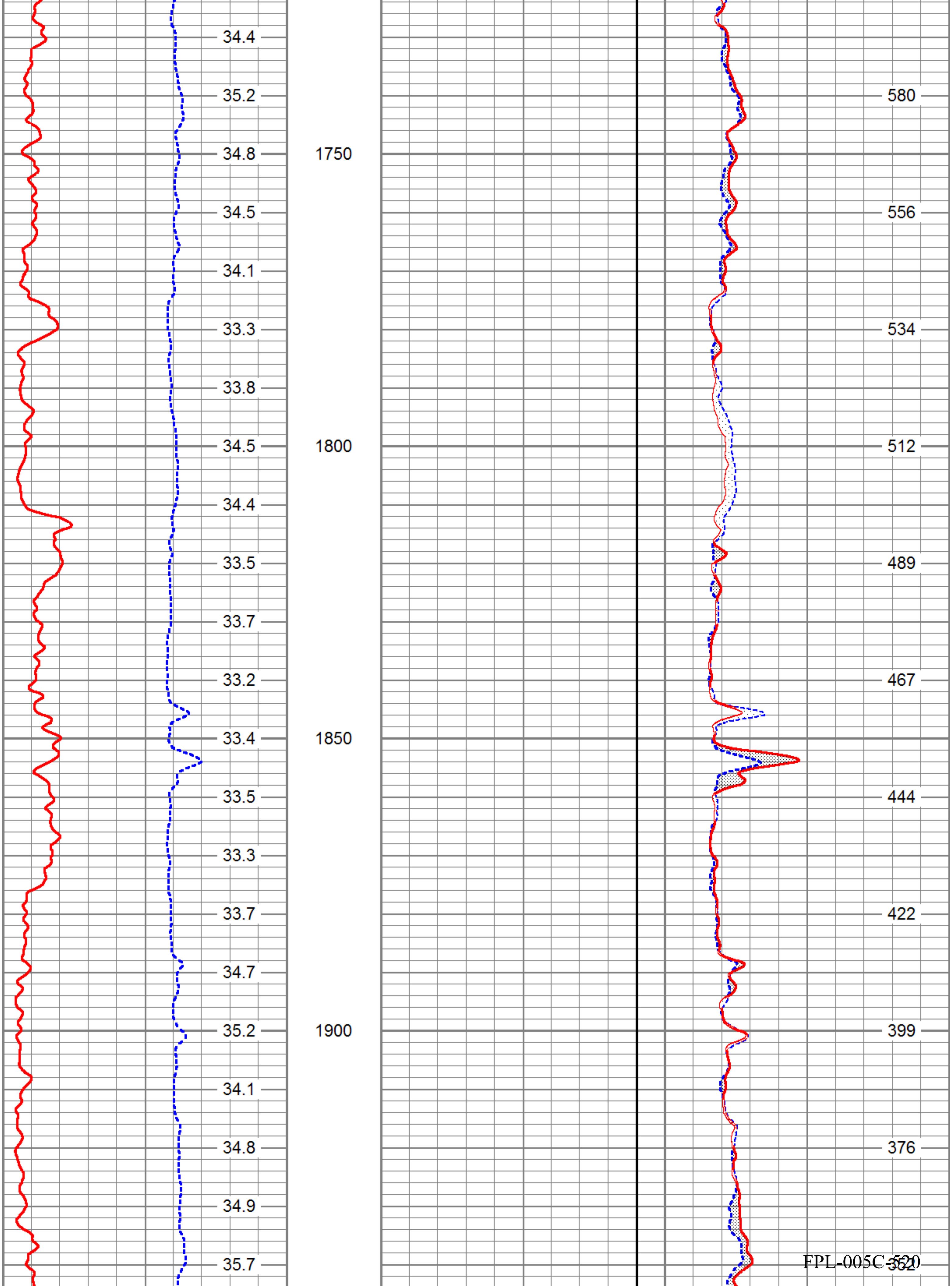
727
698
671
648
625
602


34.4
35.2
34.8
1750
34.5
34.1
33.3
33.8
34.5
1800
34.4
33.5
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33.2
33.4
1850
33.5
33.3
33.7
34.7
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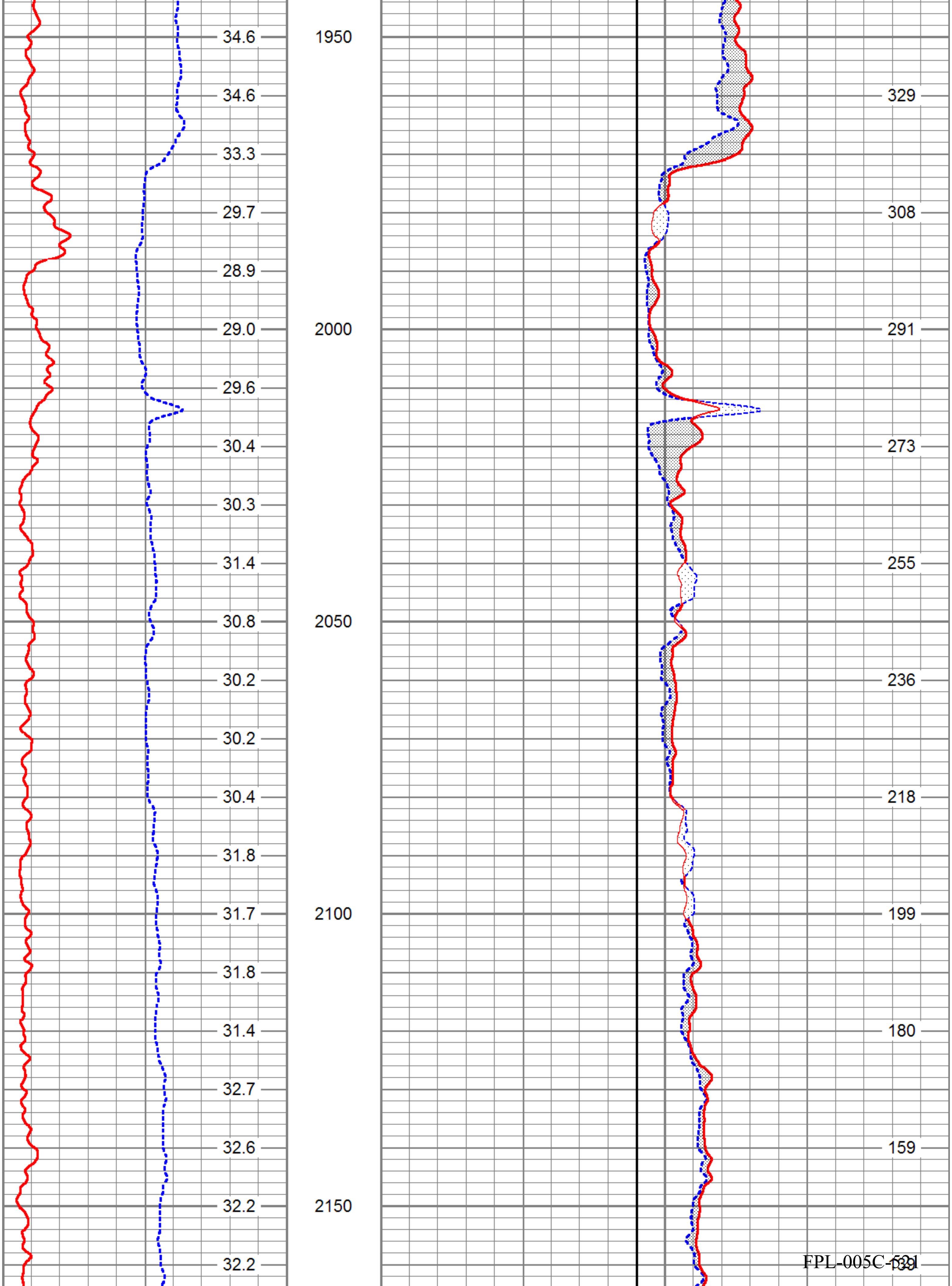
444
422
399
376
352


34.6
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29.7
308
28.9
29.0
2000
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29.6
30.4
273
30.3
31.4
255
30.8
2050
30.2
236
30.2
30.4
218
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2100
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31.8
31.4
180
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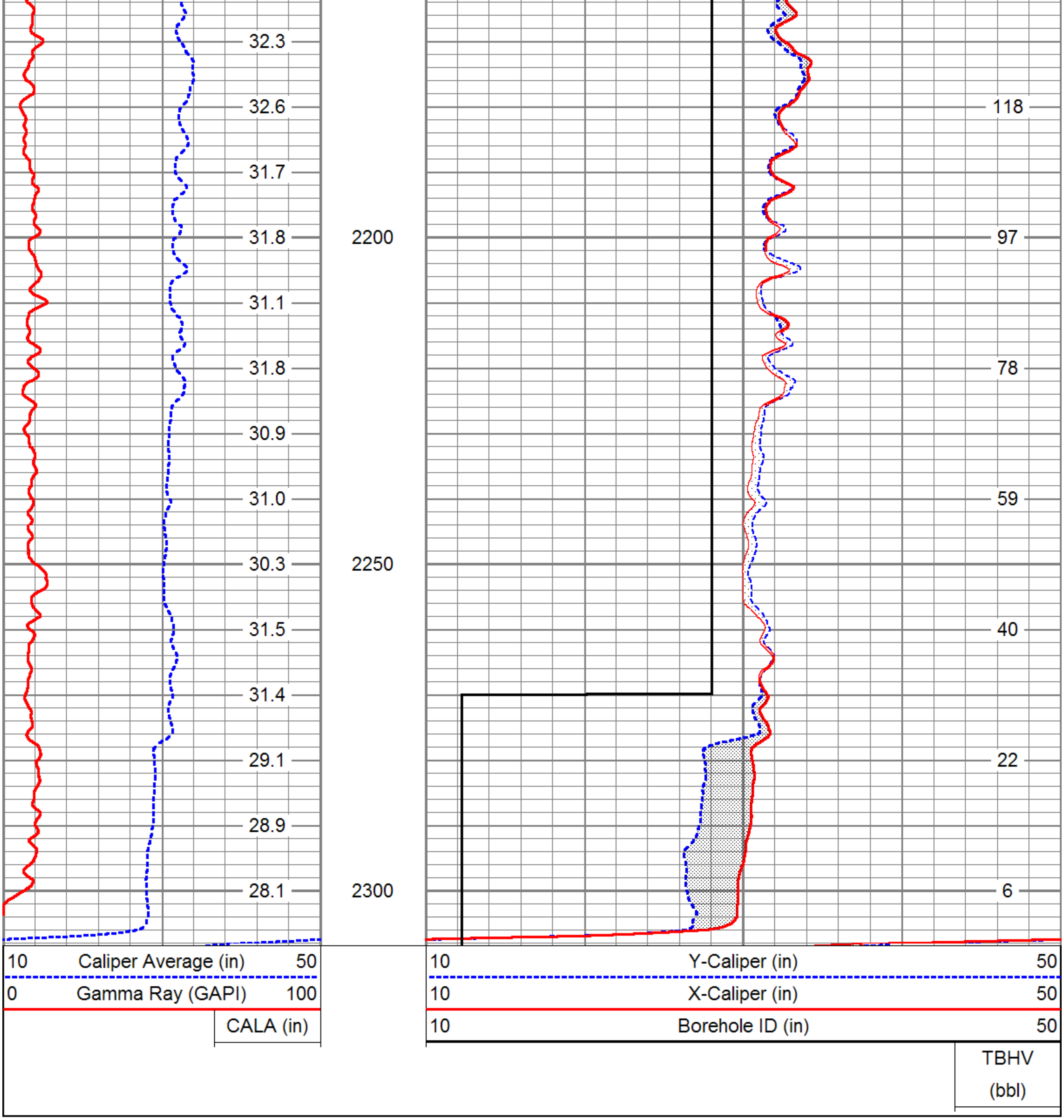
32.6
159
32.2
2150
32.2
139



Calibration Report

Database File: tpew1.db
Dataset Pathname: XYCRP
Dataset Creation: Fri Jan 06 15:34:33 2012 by Log Open-Cased 071220

XY Caliper Calibration Report

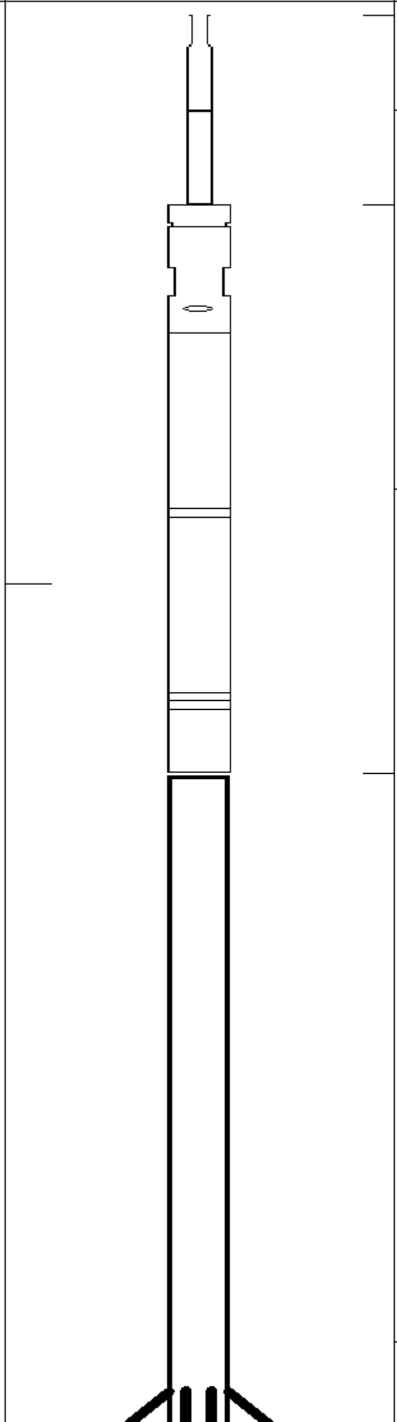
Serial Number/Model: SDSDEMO-XY
Performed: Fri Jan 06 15:32:00 2012

Ring	X Caliper	Y Caliper
1: 10 in	395 cps	373.152 cps

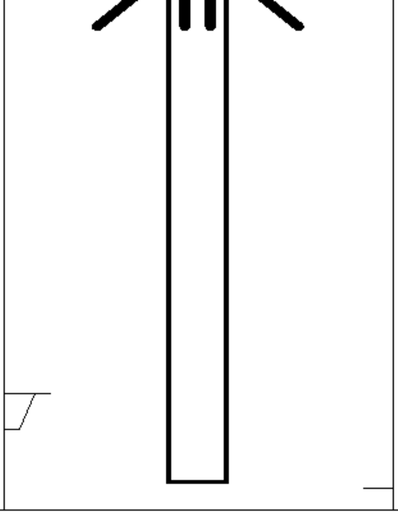
1:	[illegible]	in	[illegible]	cps	[illegible]	cps
2:	12	in	436.6	cps	417.6	cps
3:	20	in	539.243	cps	531.892	cps
4:	23.25	in	606	cps	585	cps
5:	30	in	709.565	cps	699.891	cps
6:	33.25	in	780	cps	770	cps

Gamma Ray Calibration Report

Serial Number:	SDS	
Tool Model:	SDSGR	
Performed:	Fri Jan 06 14:25:33 2012	
Calibrator Value:	120.0	GAPI
Background Reading:	117.8	cps
Calibrator Reading:	585.1	cps
Sensitivity:	0.2568	GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CHD-SDSCHD (SDS) Cable Head	1.00	1.50	5.00
			GR-SDSGR (SDS) GR for Testing	3.00	1.69	20.00
GR	7.00					
			XYC-XY (SDSDEMO) LGL_XYC_MM	6.00	3.50	100.00

XCAL	0.50
YCAL	0.50



Dataset: tpew1.db: field/well/run1/XYCRP
Total Length: 10.00 ft
Total Weight: 125.00 lb
O.D. 3.50 in

X-Y CALIPER
GAMMA RAY
LOG

Company	LAYNE CHRISTENSEN COMPANY
Well	TURKEY POINT EW-1
Field	FLORIDA CITY
County	MIAMI-DADE
State	FLORIDA
Location	FPL TURKEY POINT POWER PLANT LAT: 25 25'19"N LONG: 80 20' 08" W MC NABB HYDROGEOLOGIC CONSULTING, INC.
Other Services	NONE

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

Date	15-JAN-2012		
Run Number	ELEVEN		
Depth Driller	3230'		
Depth Logger	2900'		
Bottom Logged Interval	2900'		
Top Log Interval	CASING		
Open Hole Size	28"		
Type Fluid	WATER		
Density / Viscosity	NA		
Max. Recorded Temp.	NA		
Estimated Cement Top	SURFACE		
Time Well Ready	0000		
Time Logger on Bottom	0000		
Equipment Number	VA-202		
Location	JUIPTER		
Recorded By	LEE		
Witnessed By	M. CLASEN		

Borehole Record				Borehole Record			
Run Number	Bit	From	To	Run Number	Bit	From	To
ELEVEN	28"	CASING	2900'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	34"	.375 W.T	SURFACE	1535'
Prot. String				
Production String				
Tubing				

Company	LAYNE CHRISTENSEN COMPANY
Well	TURKEY POINT EW-1
Field	FLORIDA CITY
County	MIAMI-DADE
State	FLORIDA

<<< Fold Here >>>

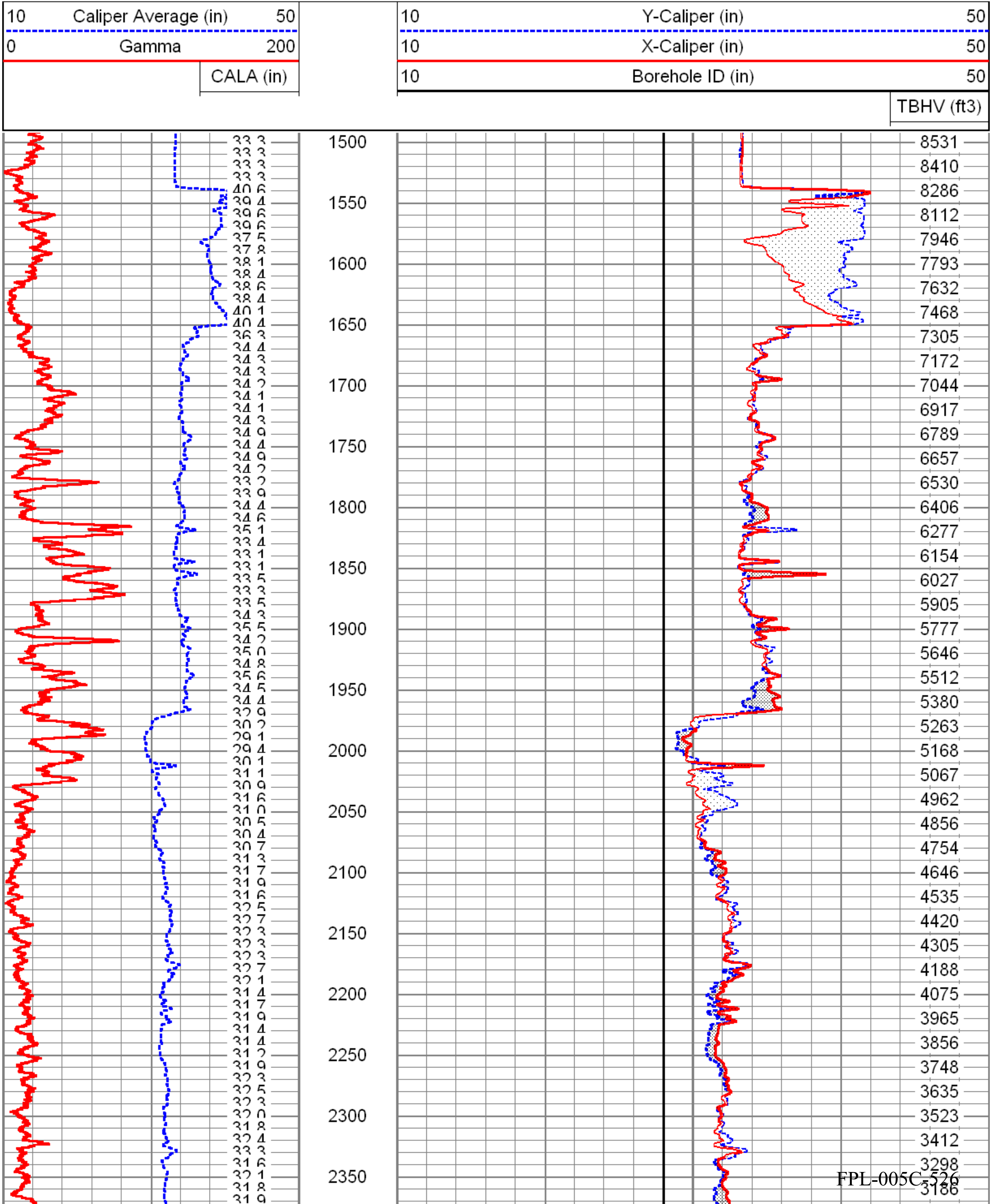
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

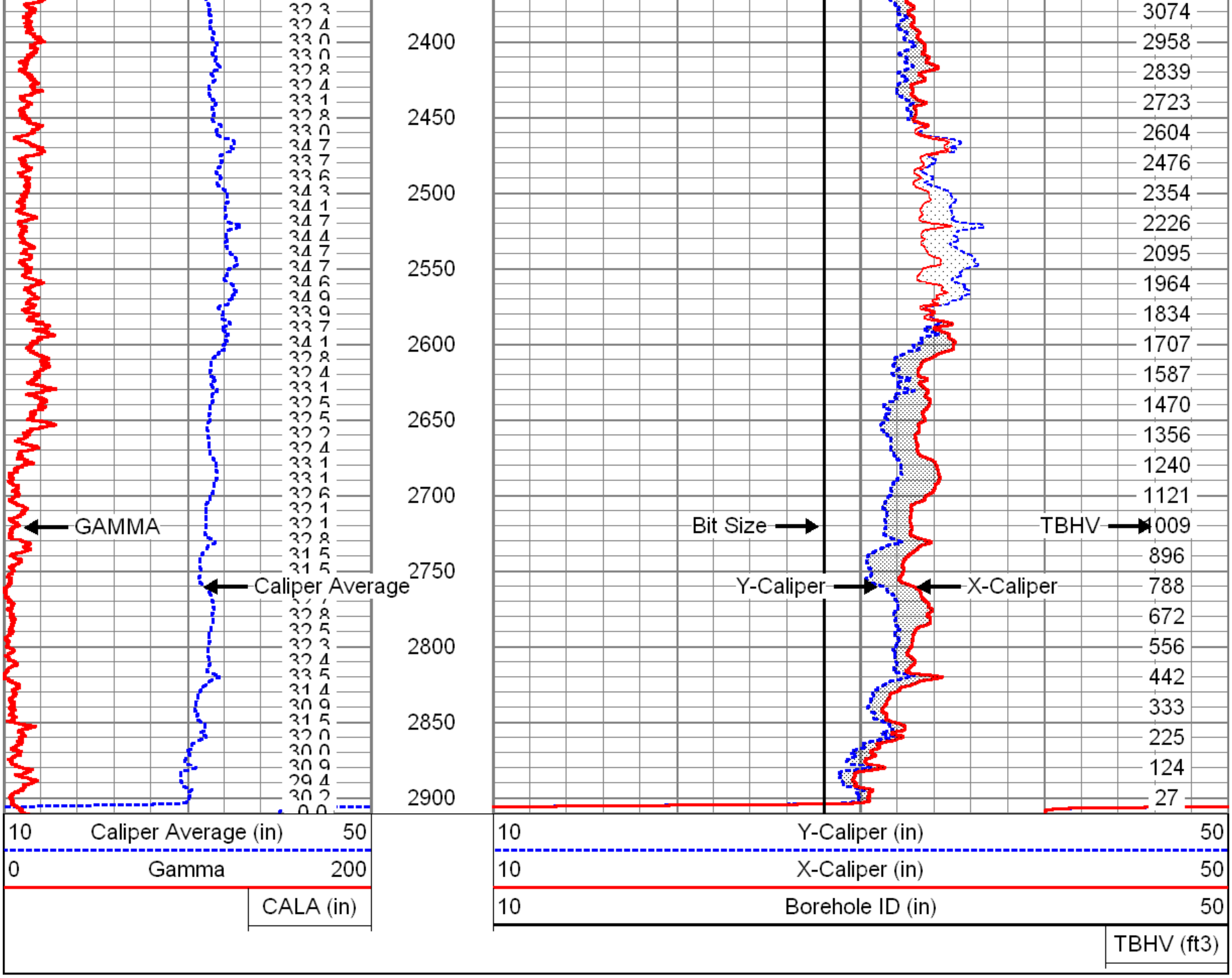
Comments

ALLWEBBS

MAIN PASS

Database File: tpew1.db
Dataset Pathname: run2/XYCMP
Presentation Format: xyc
Dataset Creation: Sun Jan 15 19:57:57 2012 by Calc Open-Cased 100827
Charted by: Depth in Feet scaled 1:1200

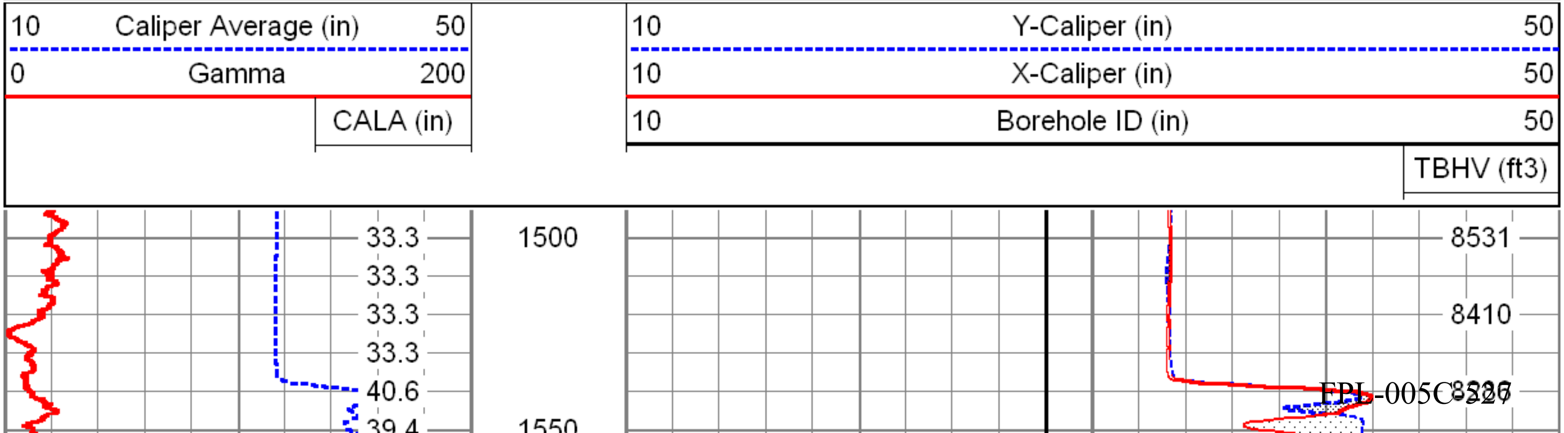


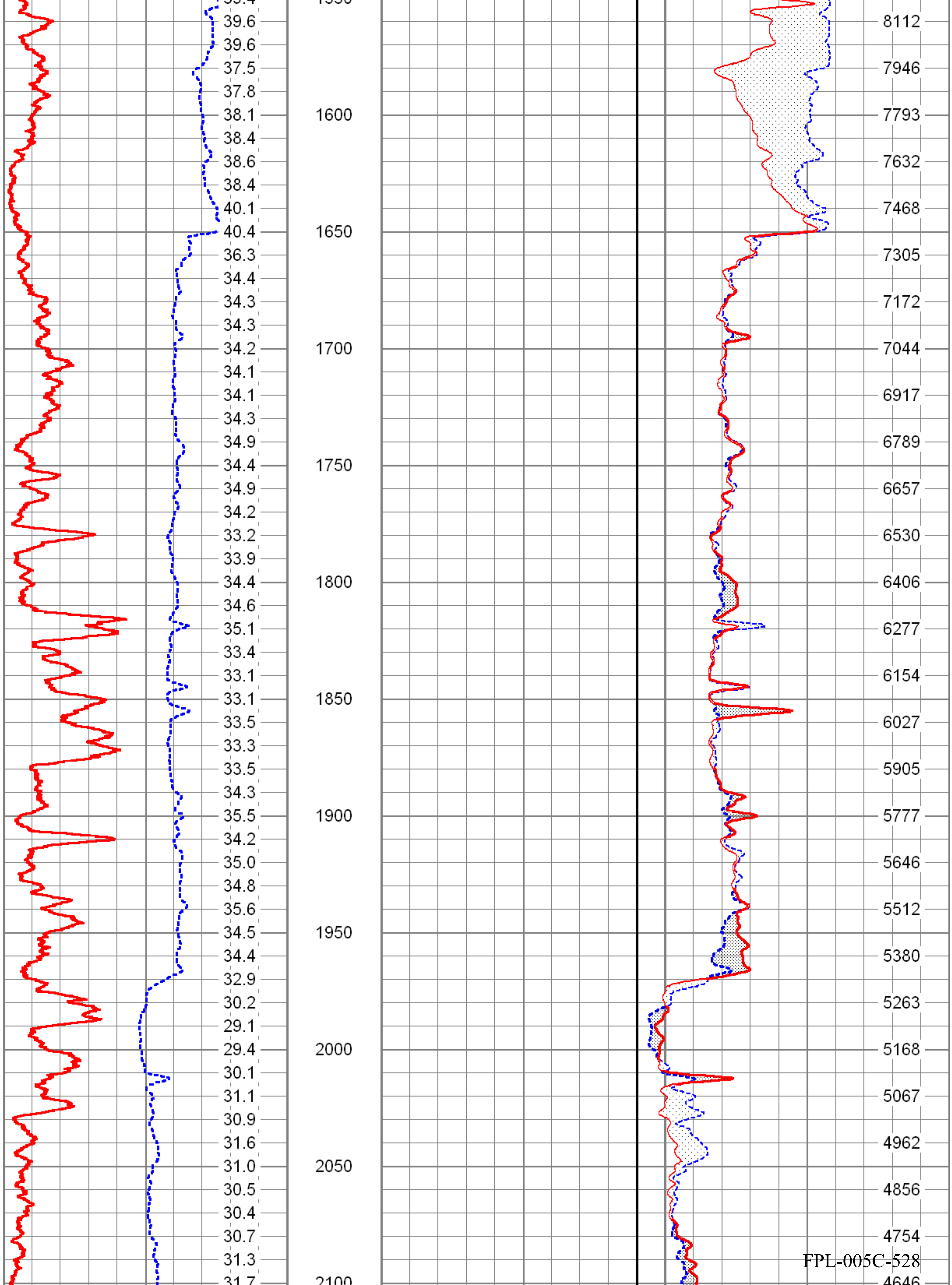


ALLWEBBS ENTERPRISES, INC.

MAIN PASS

Database File:	tpew1.db
Dataset Pathname:	run2/XYCMP
Presentation Format:	xyc
Dataset Creation:	Sun Jan 15 19:57:57 2012 by Calc Open-Cased 100827
Charted by:	Depth in Feet scaled 1:600

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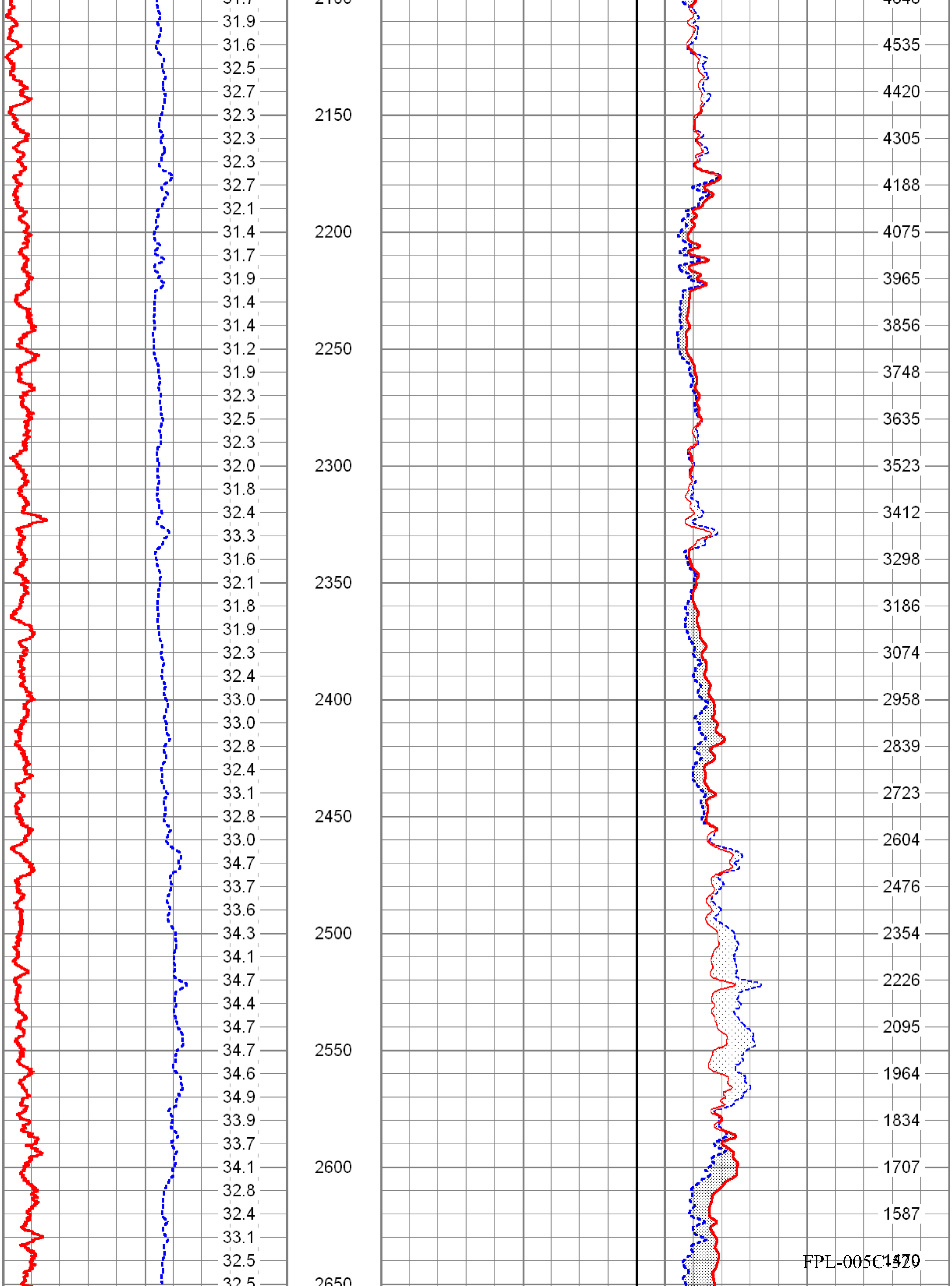
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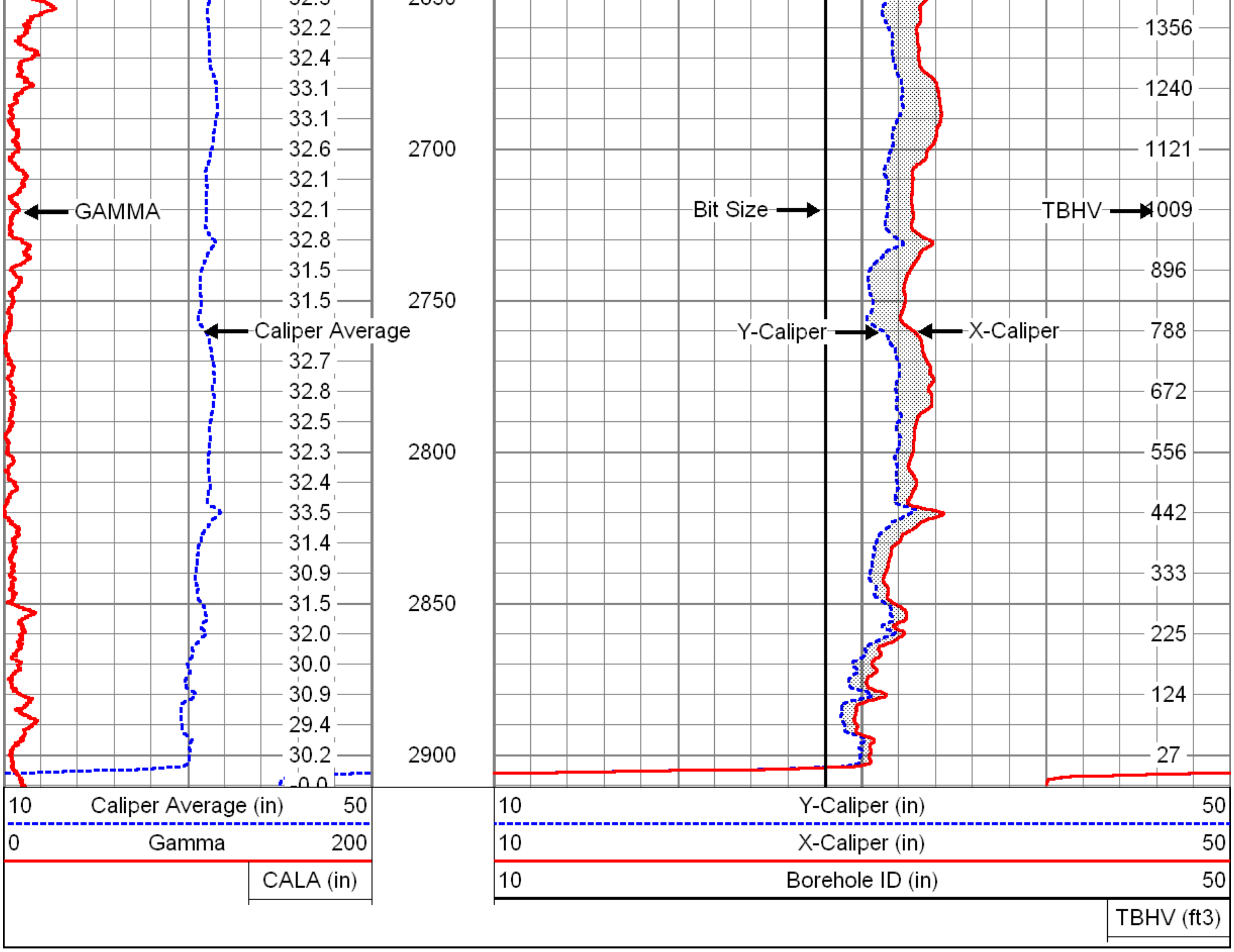

ALLWEBBS ENTERPRISES INC

MAIN PASS

Database File: tpew1.db
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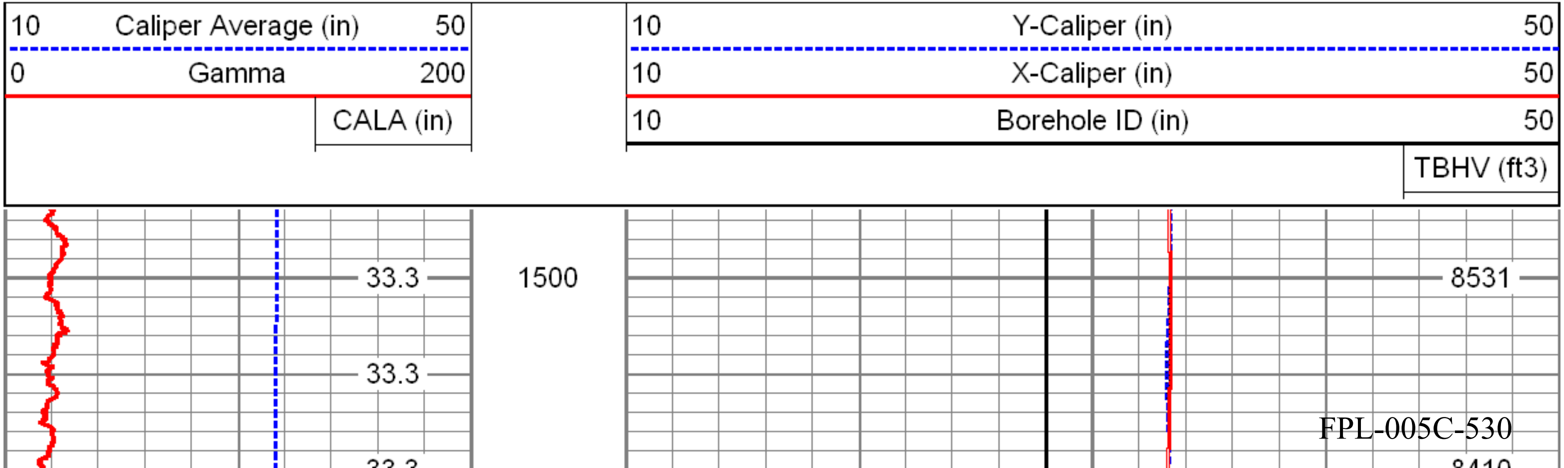
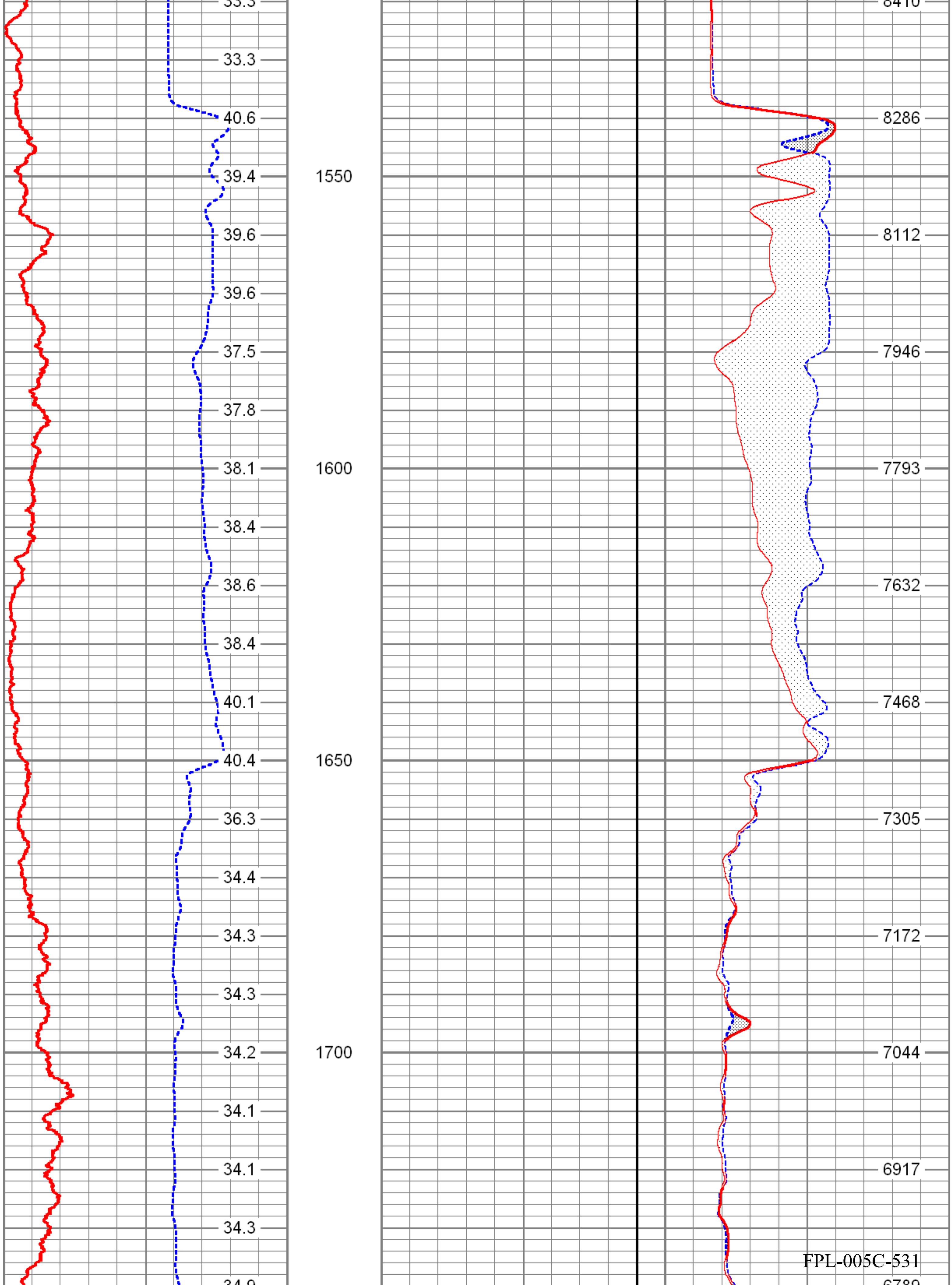
Presentation Format: xyc
Dataset Creation: Sun Jan 15 19:57:57 2012 by Calc Open-Cased 100827
Charted by: Depth in Feet scaled 1:240

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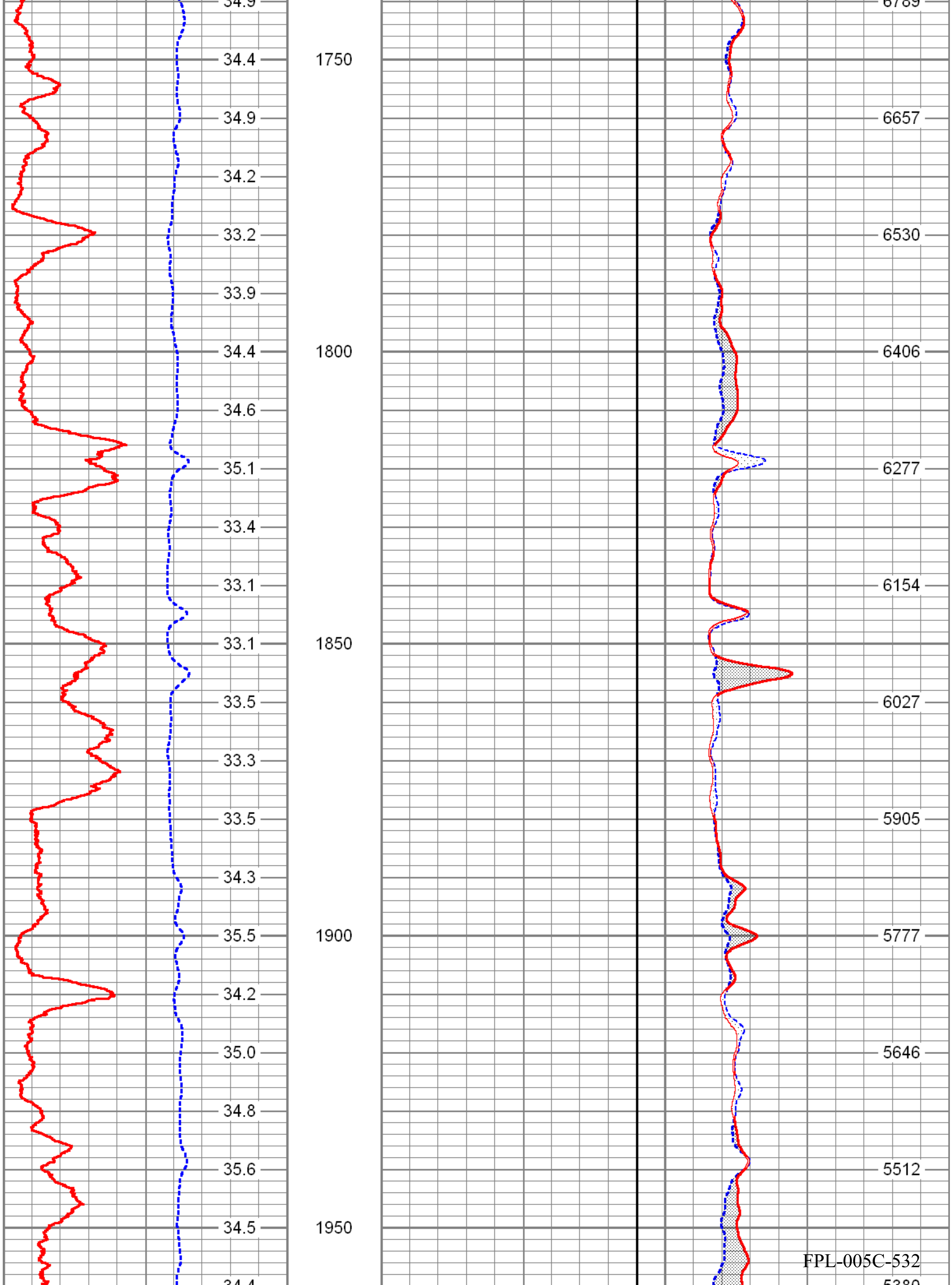
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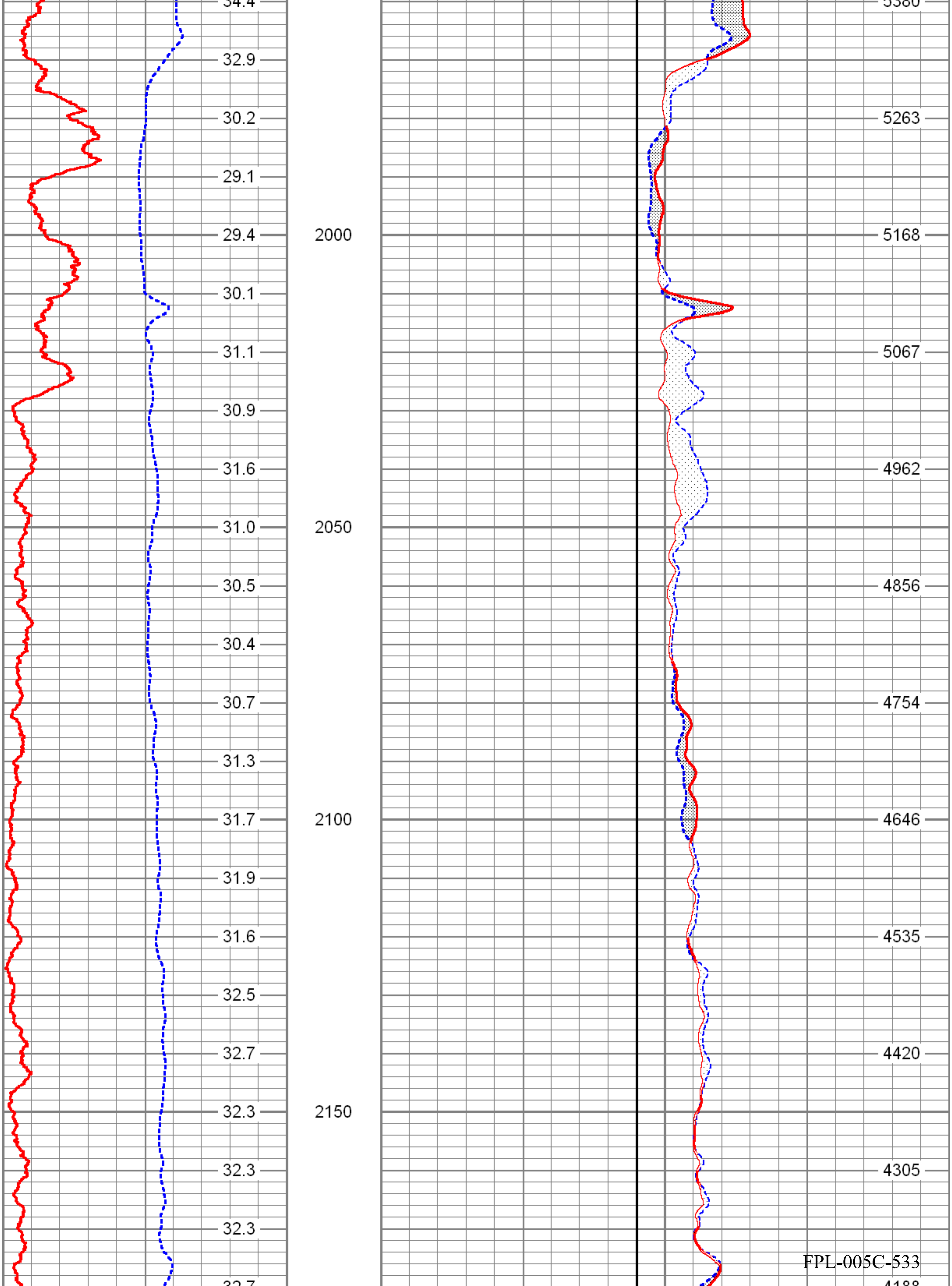
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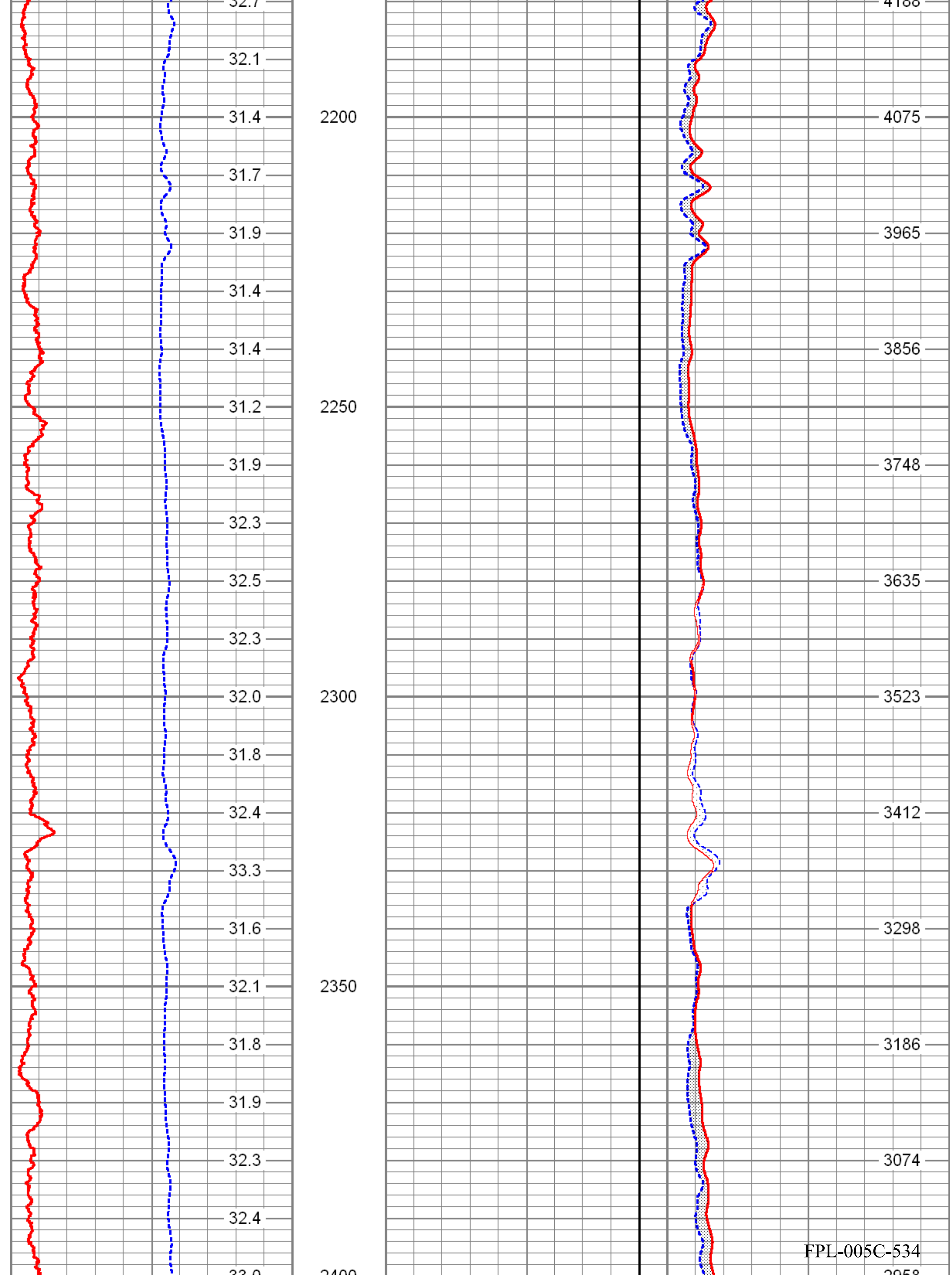
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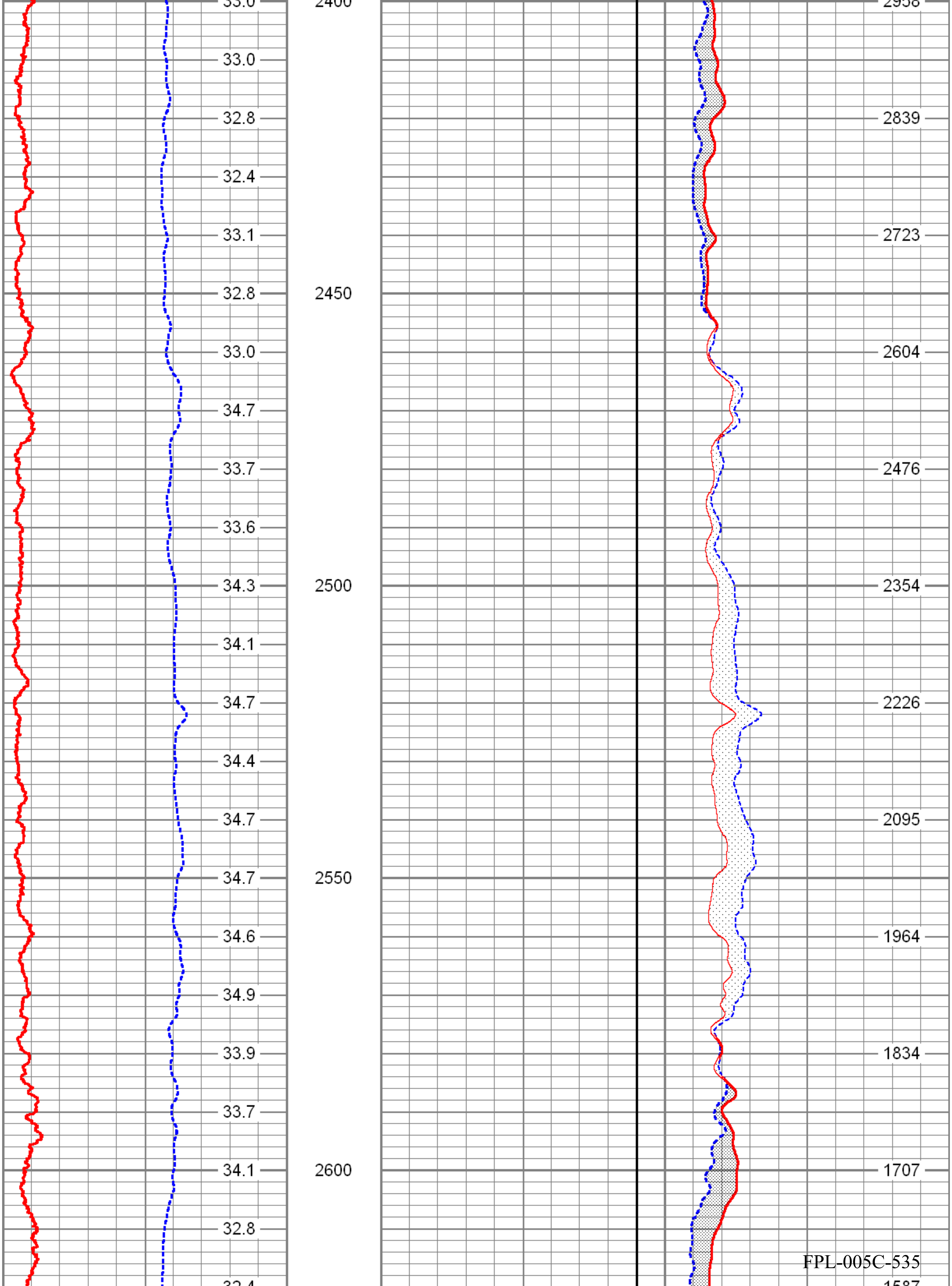
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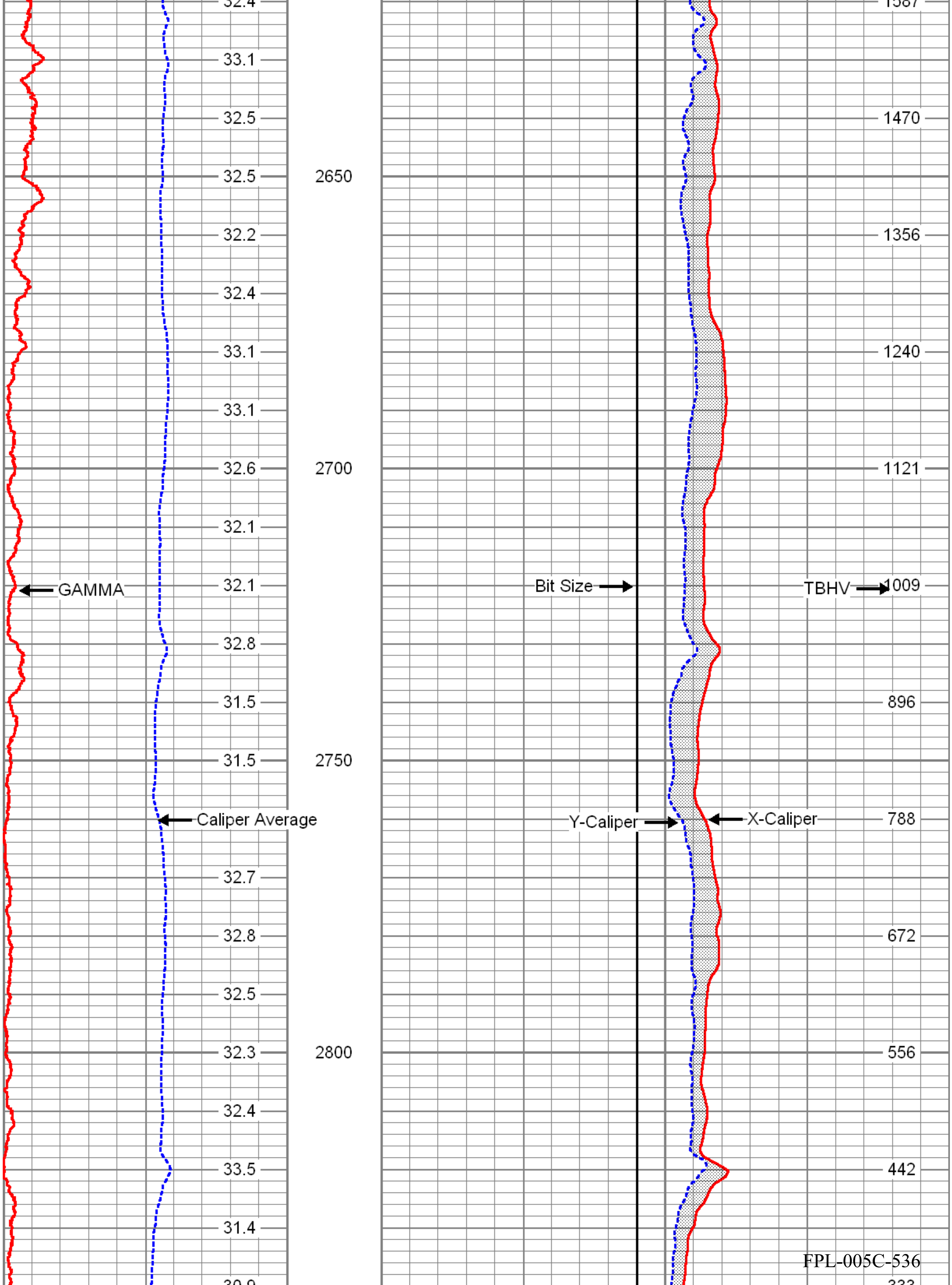
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GAMMA
32.1
Bit Size
TBHV
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31.5
896
2750
31.5
Caliper Average
Y-Caliper
X-Caliper
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32.4
33.5
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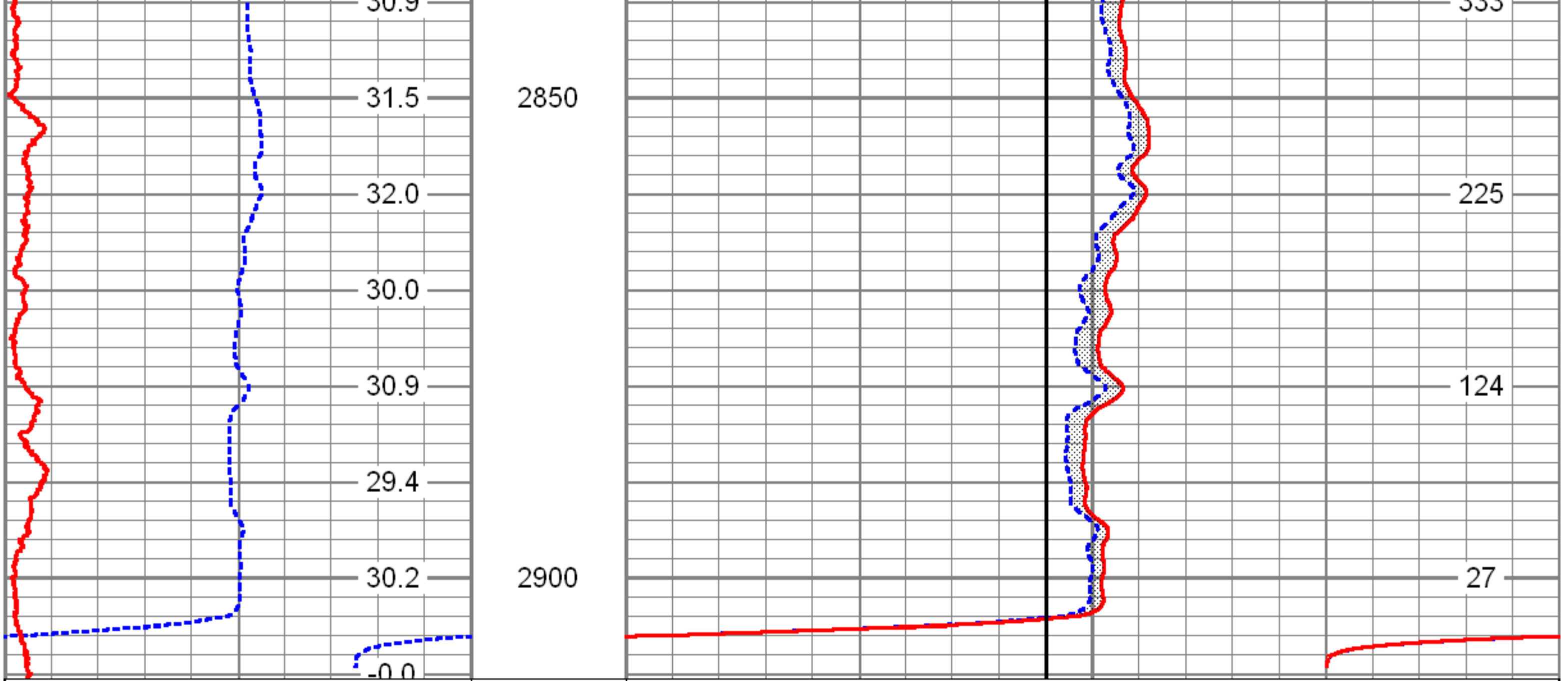

10 Caliper Average (in) 50
0 Gamma 200
CALA (in)

10 Y-Caliper (in) 50
10 X-Caliper (in) 50
10 Borehole ID (in) 50
TBHV (ft3)

REPEAT PASS

Database File:	tpew1.db
Dataset Pathname:	run2/XYCRPFIN
Presentation Format:	xyc
Dataset Creation:	Sun Jan 15 20:07:37 2012 by Calc Open-Cased 100827
Charted by:	Depth in Feet scaled 1:240

10 Caliper Average (in) 50
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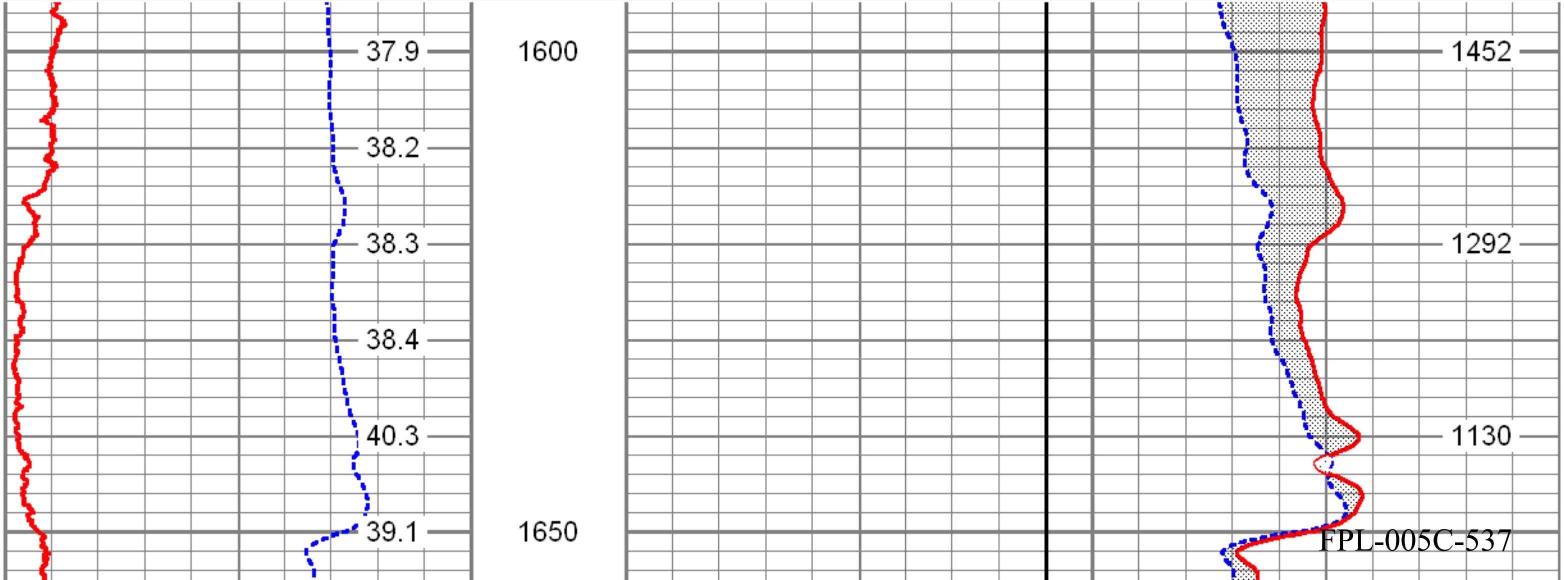
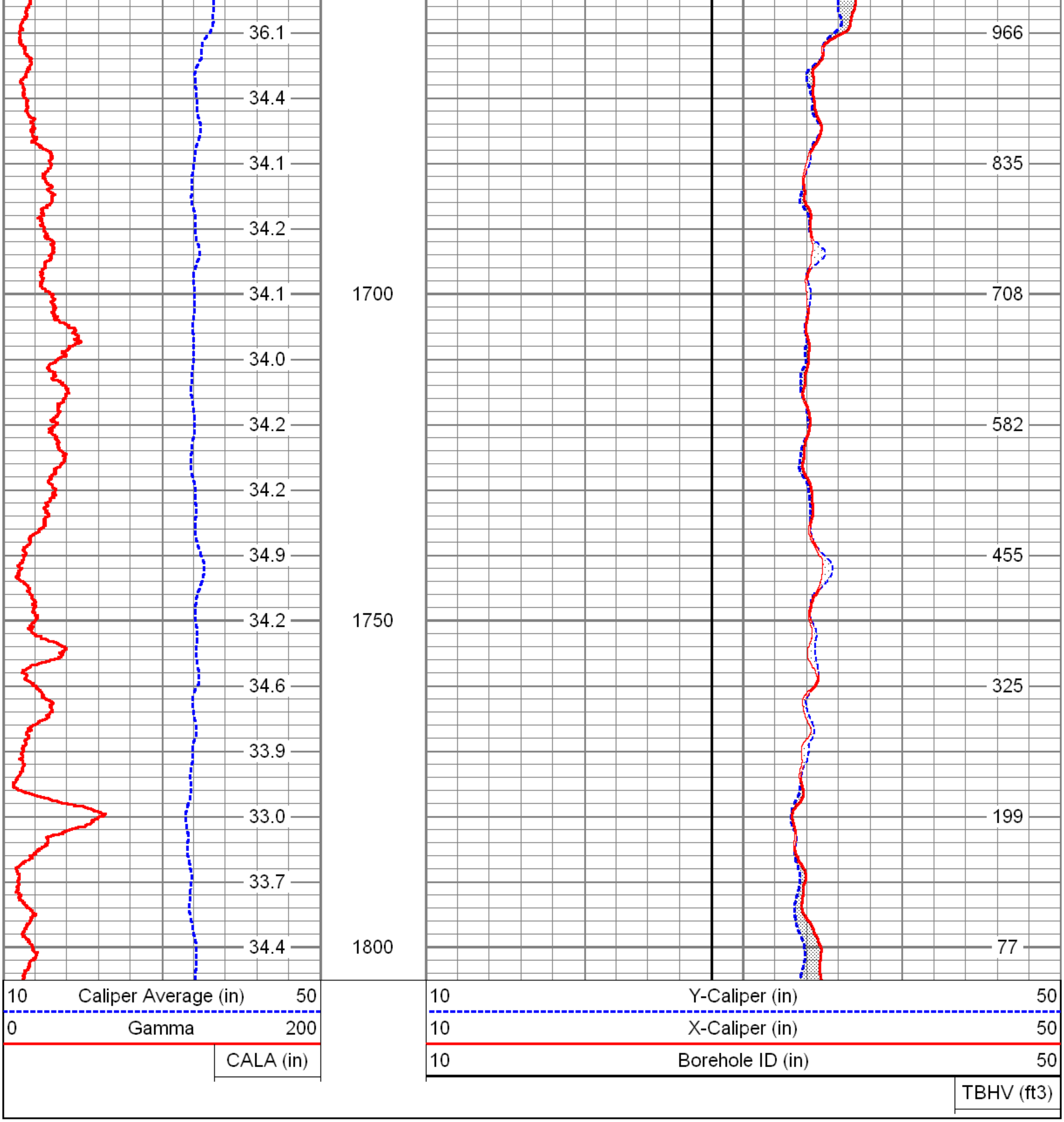
CALA (in)

10 Y-Caliper (in) 50
10 X-Caliper (in) 50
10 Borehole ID (in) 50
TBHV (ft3)





Calibration Report

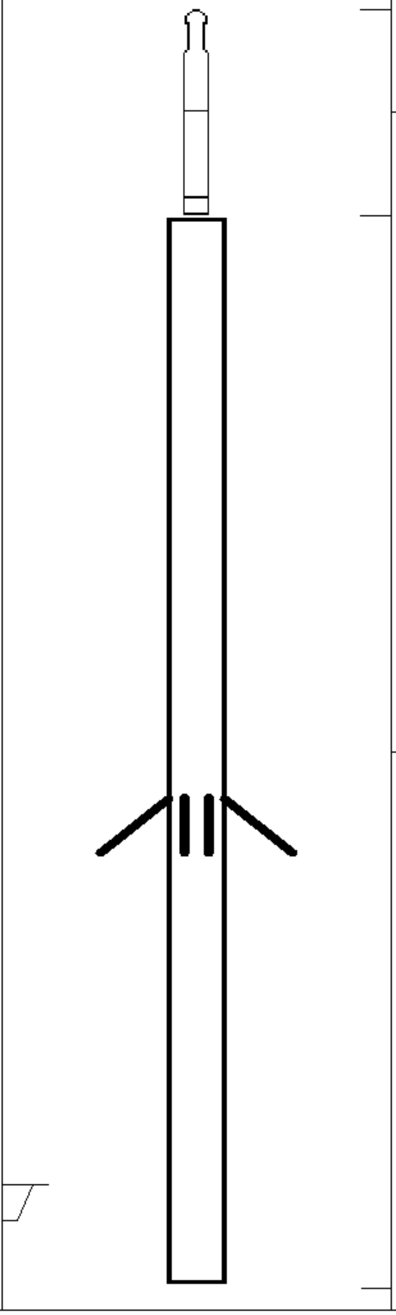
Database File:	tpew1.db
Dataset Pathname:	run2/XYCMP
Dataset Creation:	Sun Jan 15 19:57:57 2012 by Calc Open-Cased 100827

XY Caliper Calibration Report

Serial Number/Model: Probe24-60-Probe24"
Performed: Sun Jan 15 18:03:58 2012

Ring	X Caliper	Y Caliper
1: 10 in	387.784 cps	416.048 cps

1:	10	in	387.784	cps	416.048	cps
2:	20	in	520.552	cps	576.722	cps
3:	30	in	688.426	cps	755.516	cps
4:	33.25	in	770	cps	829	cps
5:	40	in	886.54	cps	947.976	cps
6:		in		cps		cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CHD-SDSCHD (SDS) Cable Head	1.00	1.50	5.00
			XYC-Probe24" (Probe24-60) Probe XY Caliper with 24" extensions	5.17	3.50	99.00
XCAL YCAL	0.50 0.50					

Dataset: tpew1.db: field/well/run2/XYCMP
Total Length: 6.17 ft
Total Weight: 104.00 lb
O.D. 3.50 in

X-Y CALIPER
GAMMA RAY
LOG

Company LAYNE CHRISTENSEN COMPANY
Well TURKEY POINT EW-1
Field FLORIDA CITY
County MIAMI-DADE
State FLORIDA

Company	LAYNE CHRISTENSEN COMPANY
Well	TURKEY POINT EW-1
Field	FLORIDA CITY
County	MIAMI-DADE State FLORIDA

Location
FPL TURKEY POINT POWER PLANT
LAT: 25 25'19"N LONG: 80 20' 08" W
MC NABB HYDROGEOLOGIC CONSULTING, INC.

Other Services
NONE

Permanent Datum	GL	Elevation
Log Measured From	GL	
Drilling Measured From	GL	

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

Date	15-JAN-2012		
Run Number	ELEVEN		
Depth Driller	3230'		
Depth Logger	2900'		
Bottom Logged Interval	2900'		
Top Log Interval	CASING		
Open Hole Size	28"		
Type Fluid	WATER		
Density / Viscosity	NA		
Max. Recorded Temp.	NA		
Estimated Cement Top	SURFACE		
Time Well Ready	0000		
Time Logger on Bottom	0000		
Equipment Number	VA-202		
Location	JUIPTER		
Recorded By	LEE		
Witnessed By	M. CLASEN		

Borehole Record				Borehole Record			
Run Number	Bit	From	To	Run Number	Bit	From	To
ELEVEN	28"	CASING	2900'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	34"	.375 W.T	SURFACE	1535'
Prot. String				
Production String				
Tubing				

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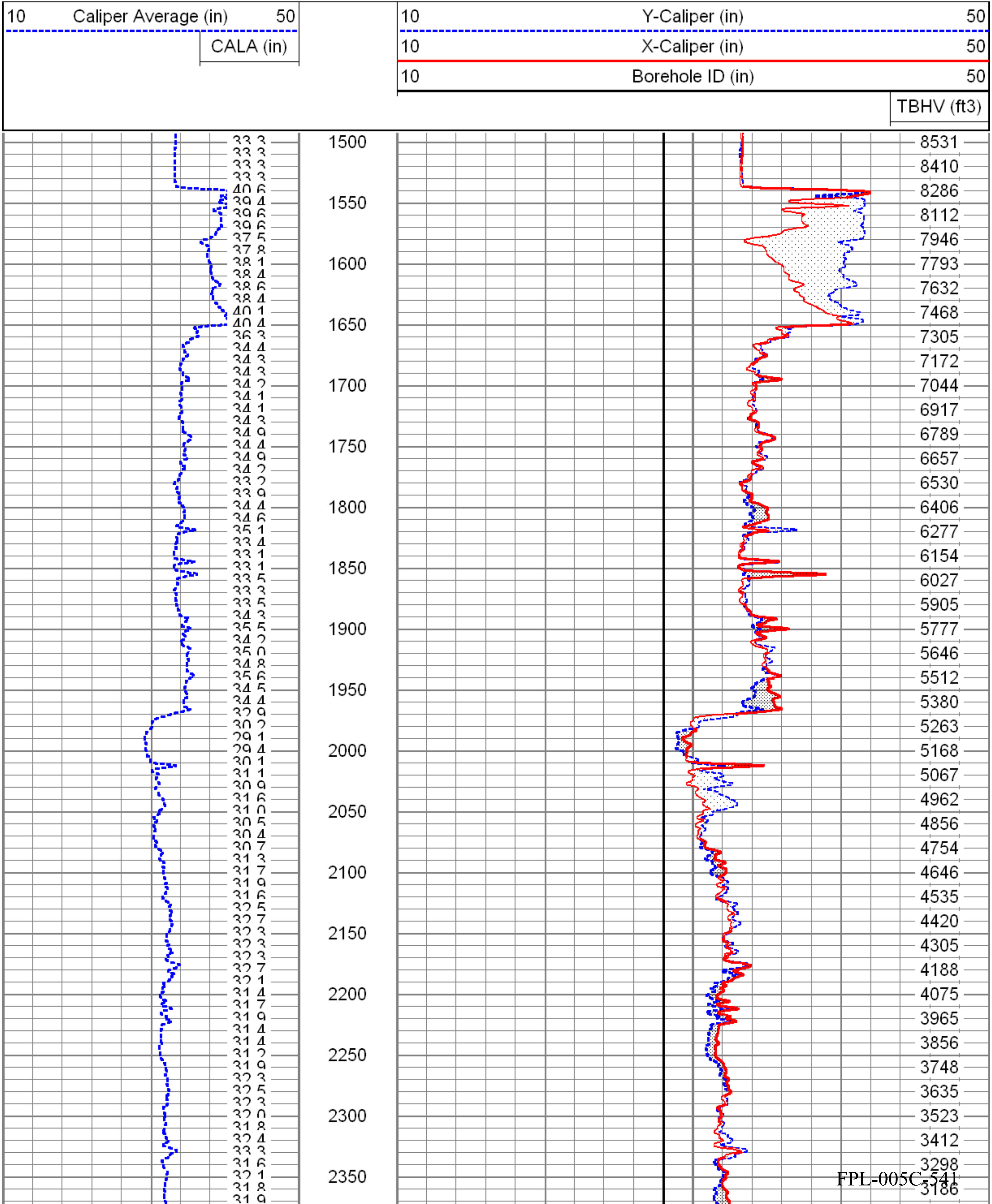
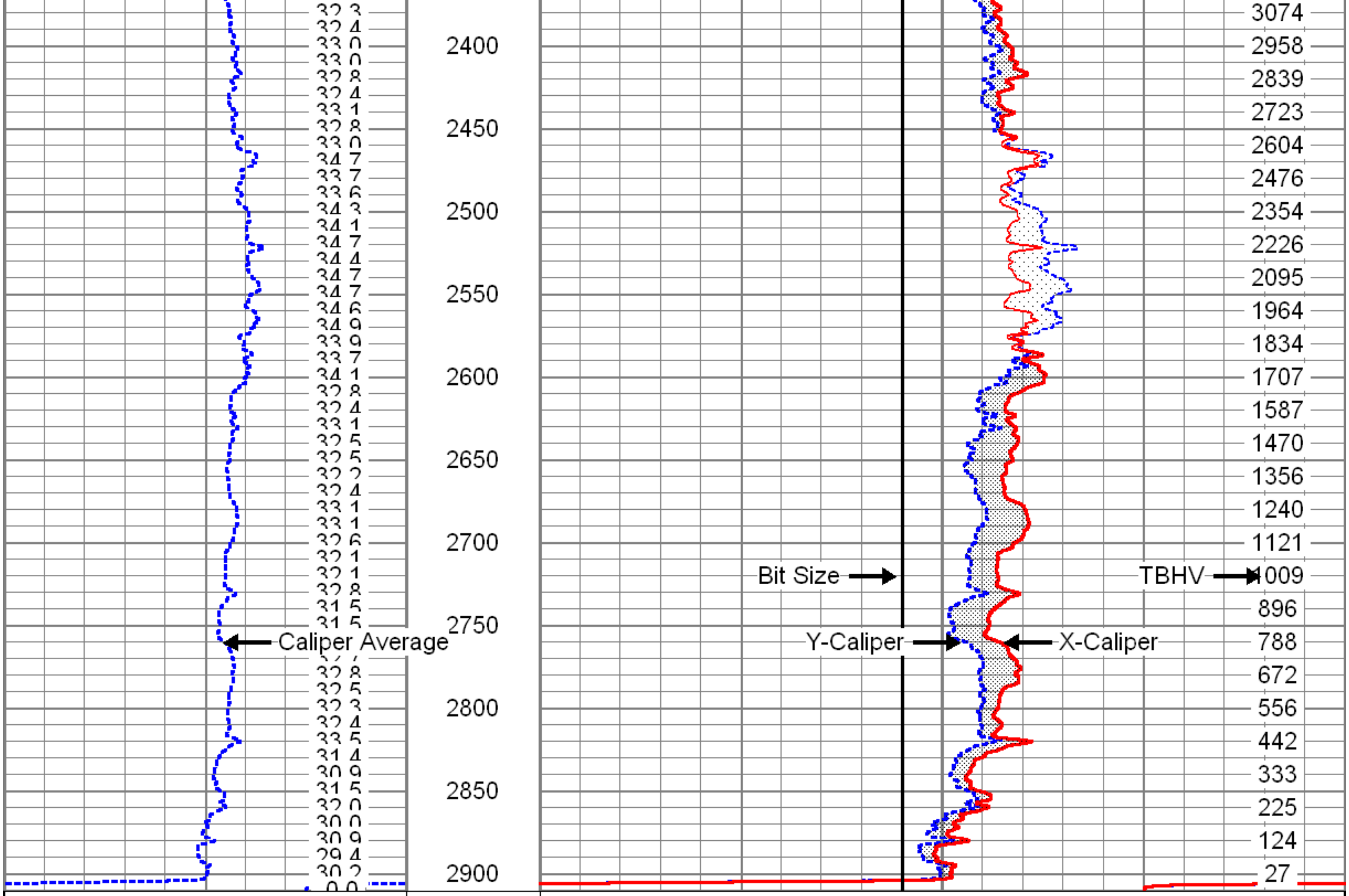
Comments

MAIN PASS

Database File: tpew1.db
Dataset Pathname: run2/XYCMP
Presentation Format: xyc
Dataset Creation: Sun Jan 15 19:57:57 2012 by Calc Open-Cased 100827
Charted by: Depth in Feet scaled 1:1200





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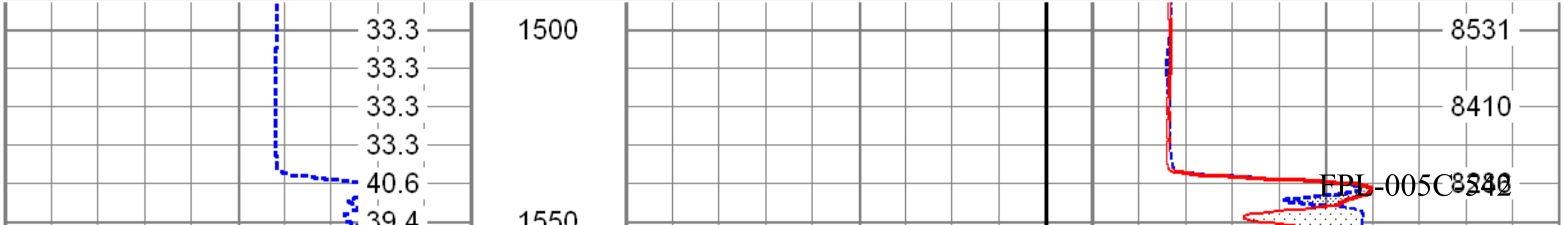
CALA (in)	10 X-Caliper (in) 50
	10 Borehole ID (in) 50
	TBHV (ft3)

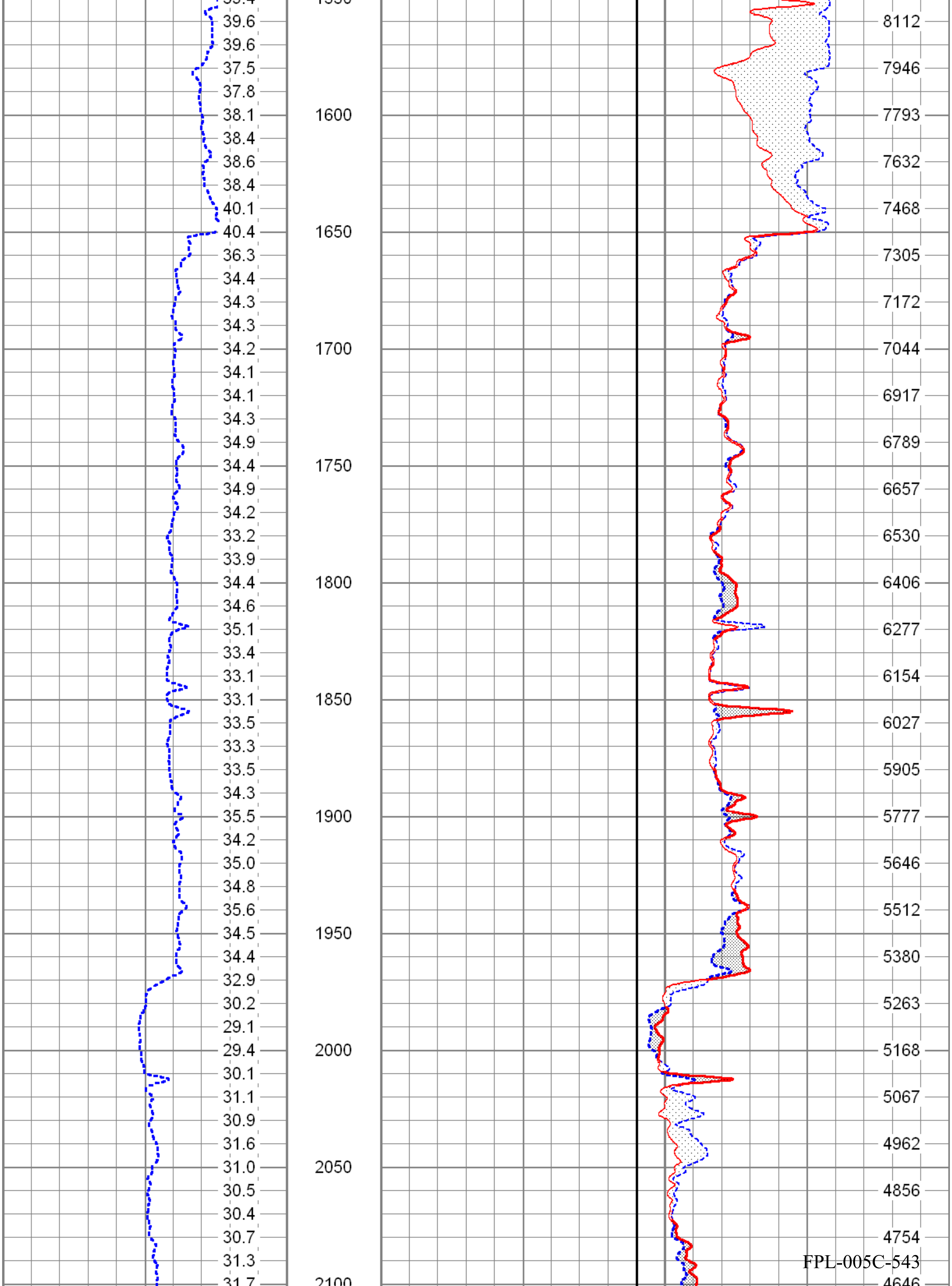
ALLWEBBS

MAIN PASS

Database File: tpew1.db
Dataset Pathname: run2/XYCMP
Presentation Format: xyc
Dataset Creation: Sun Jan 15 19:57:57 2012 by Calc Open-Cased 100827
Charted by: Depth in Feet scaled 1:600

10 Caliper Average (in) 50	10 Y-Caliper (in) 50
CALA (in)	10 X-Caliper (in) 50
	10 Borehole ID (in) 50
	TBHV (ft3)

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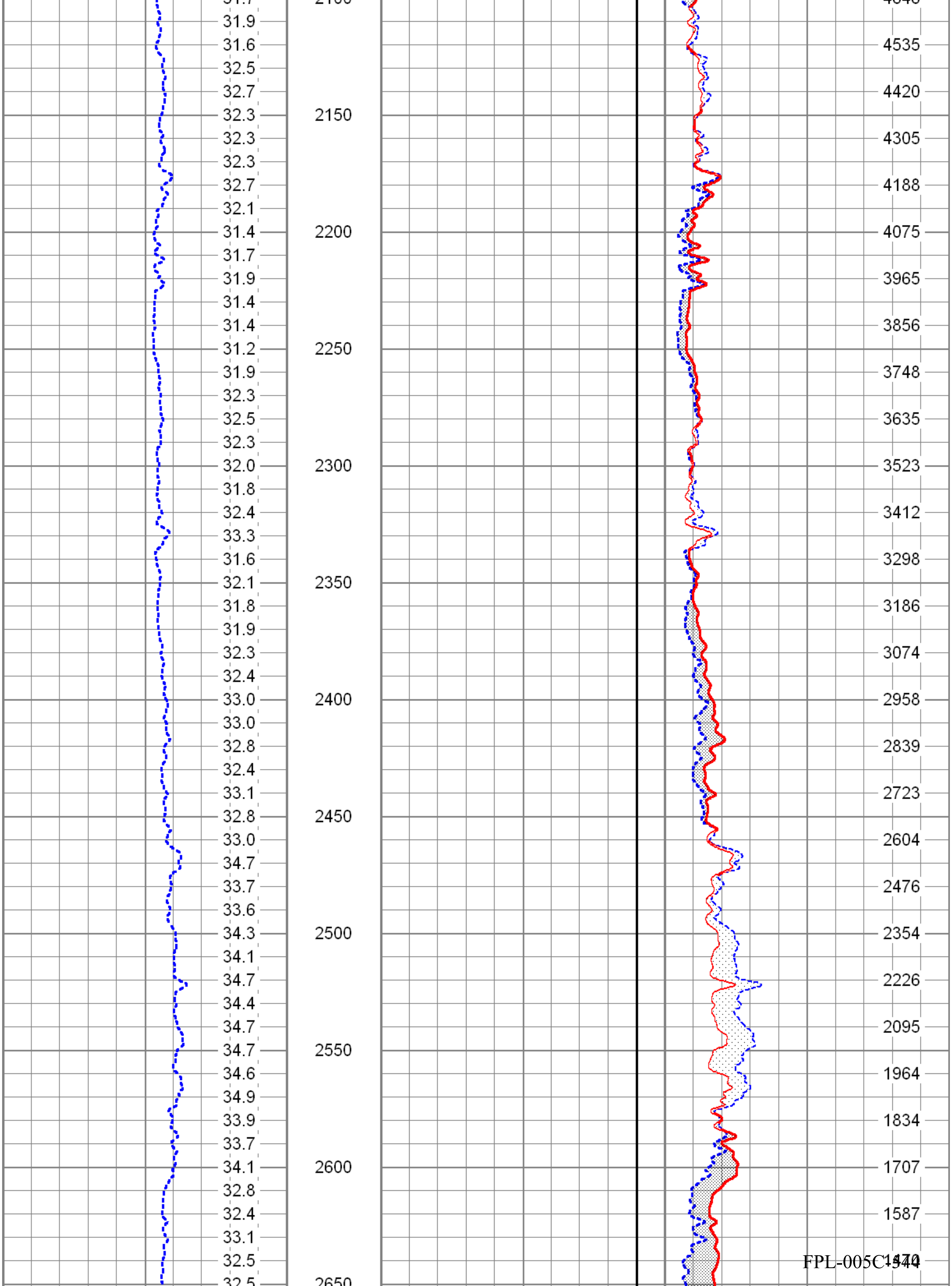
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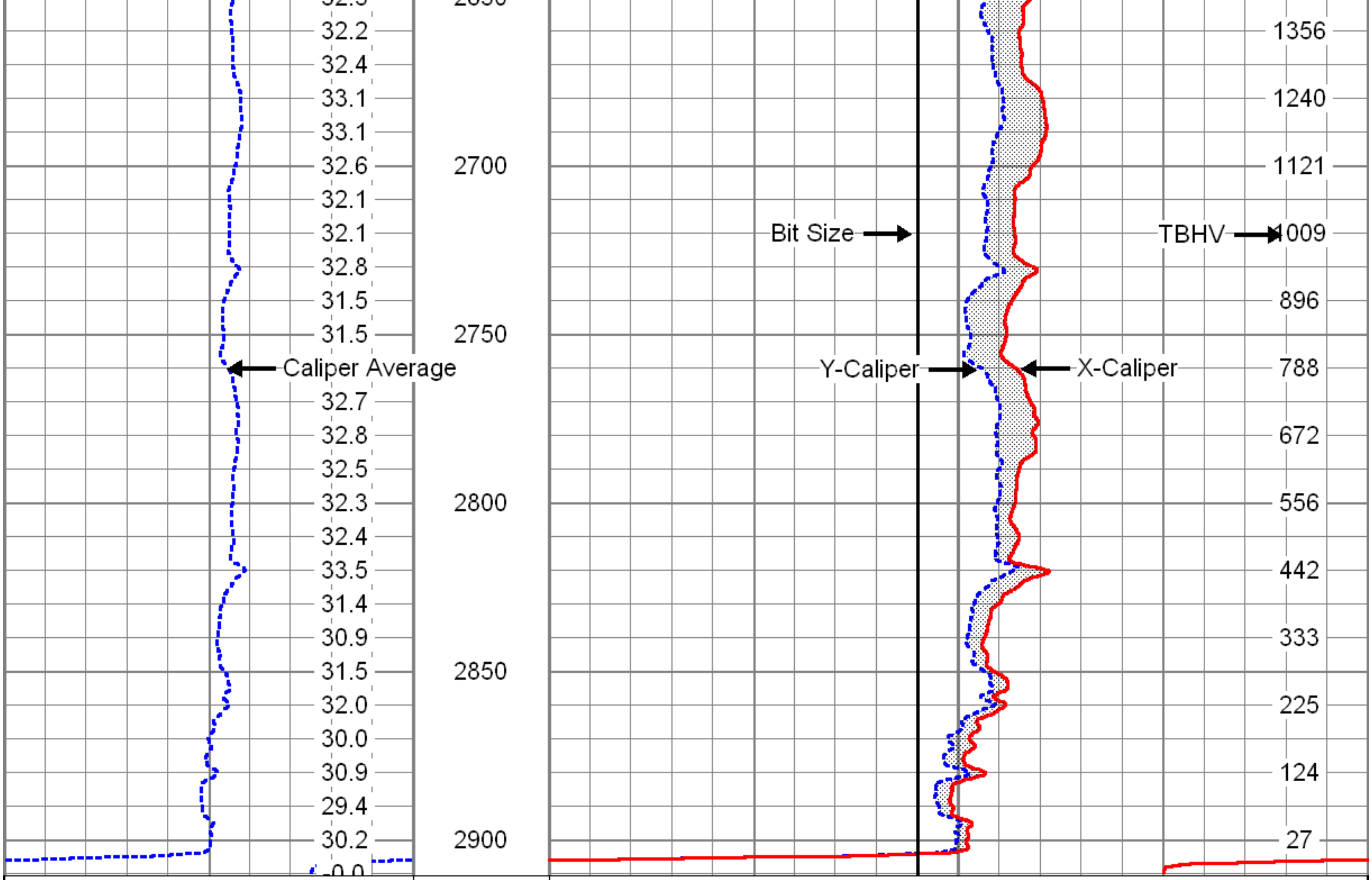

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	CALA (in)		
10	Y-Caliper (in)	50	
10	X-Caliper (in)	50	
10	Borehole ID (in)	50	
	TBHV (ft3)		

ALLWEBBS

MAIN PASS

Database File:	tpew1.db
Dataset Pathname:	run2/XYCMP
Presentation Format:	xyc
Dataset Creation:	Sun Jan 15 19:57:57 2012 by Calc Open-Cased 100827
Charted by:	Depth in Feet scaled 1:240

10	Caliper Average (in)	50	
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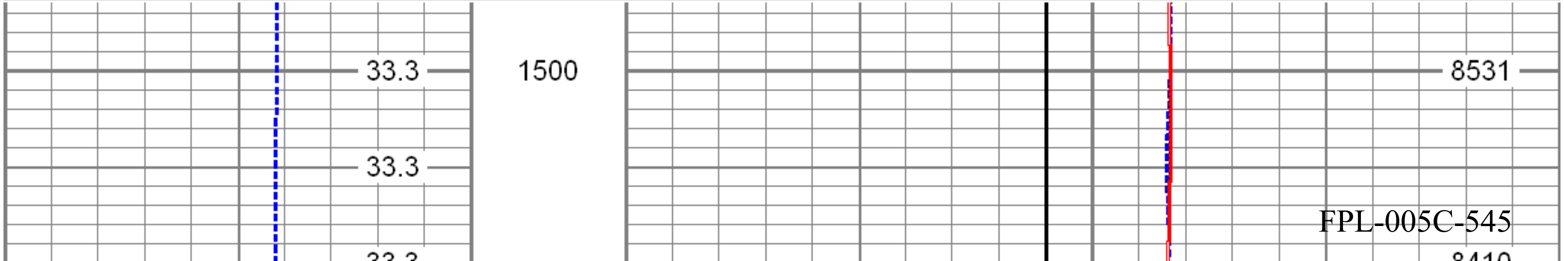
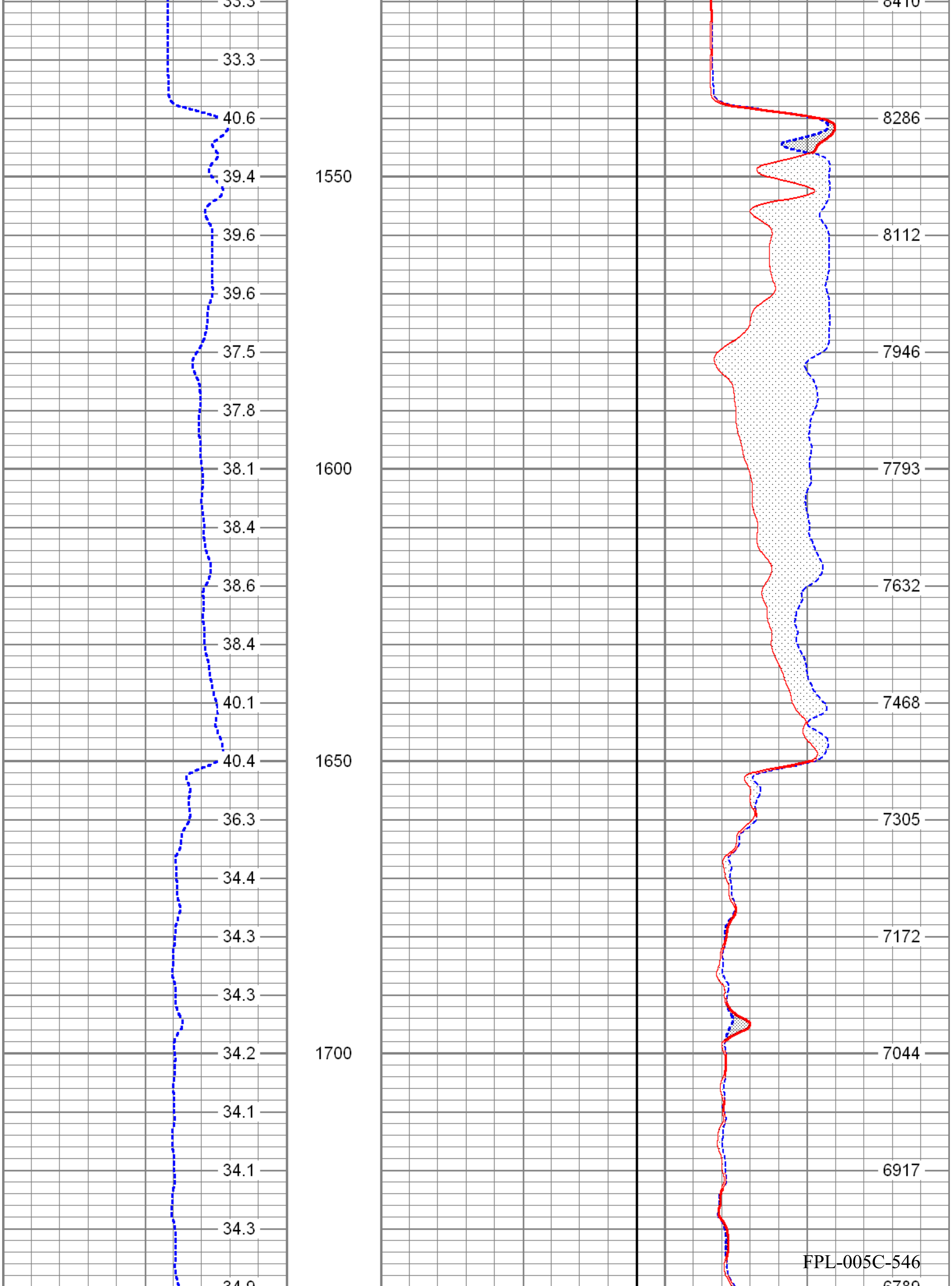
	TBHV (ft3)		

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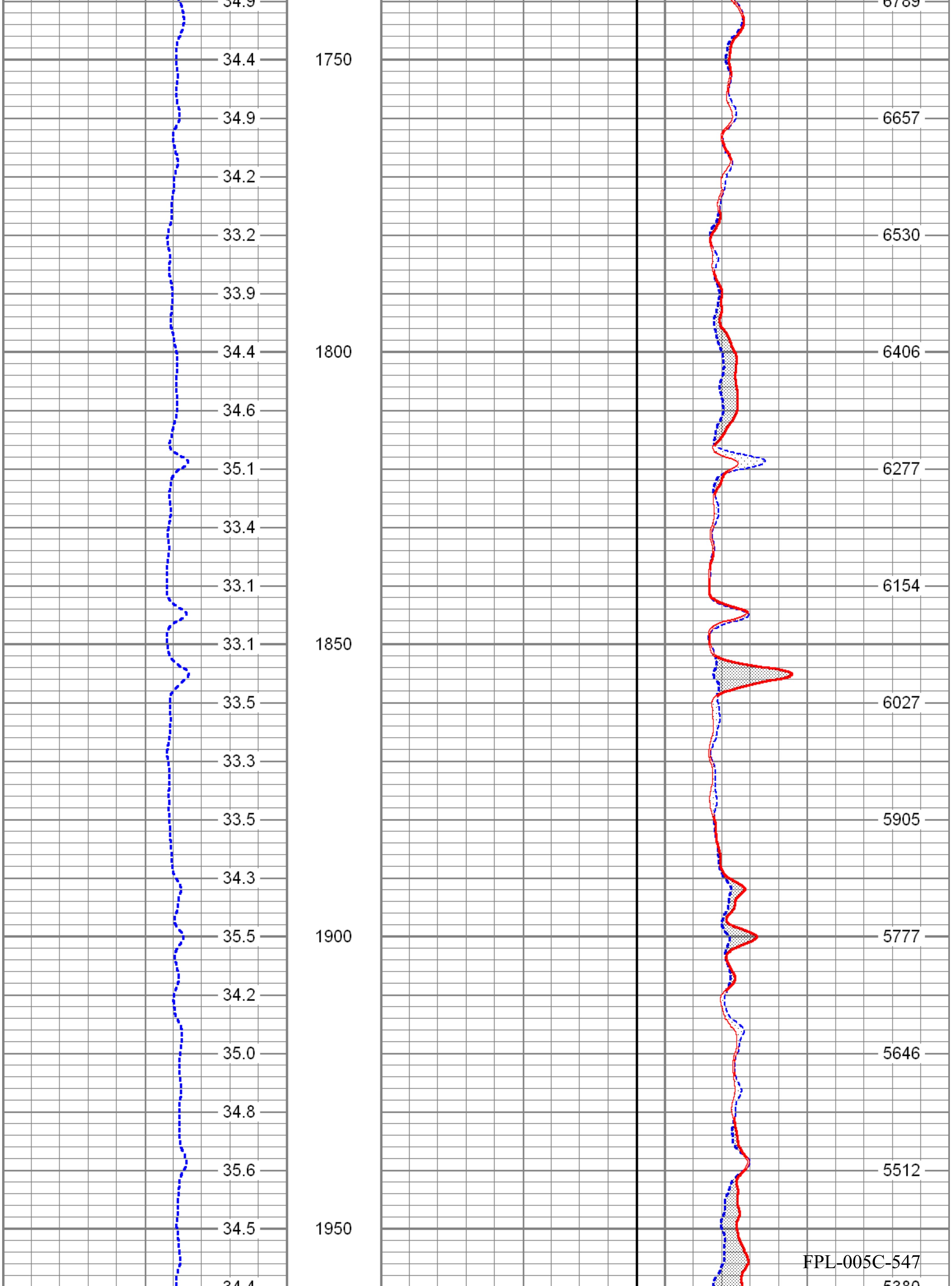
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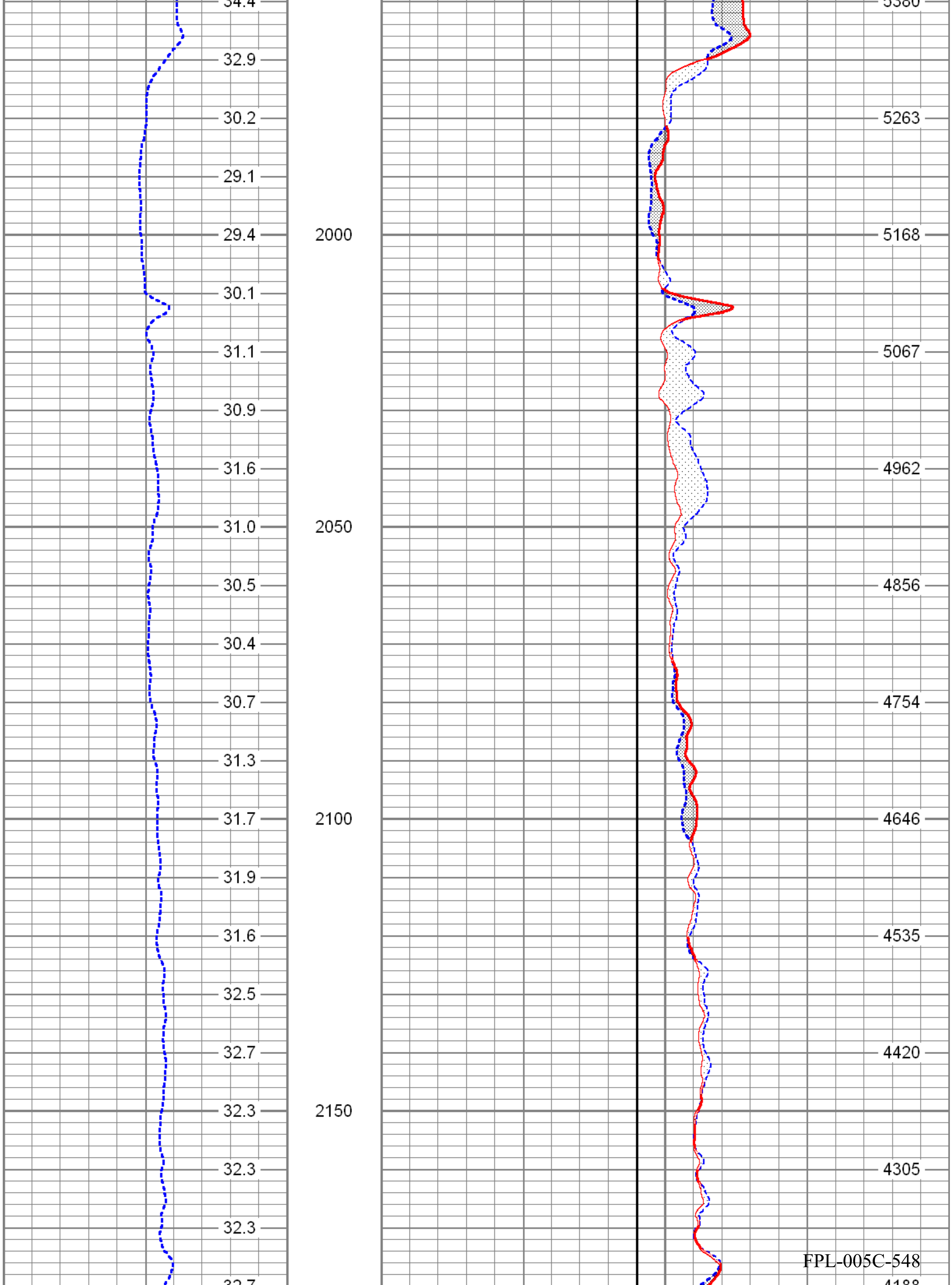
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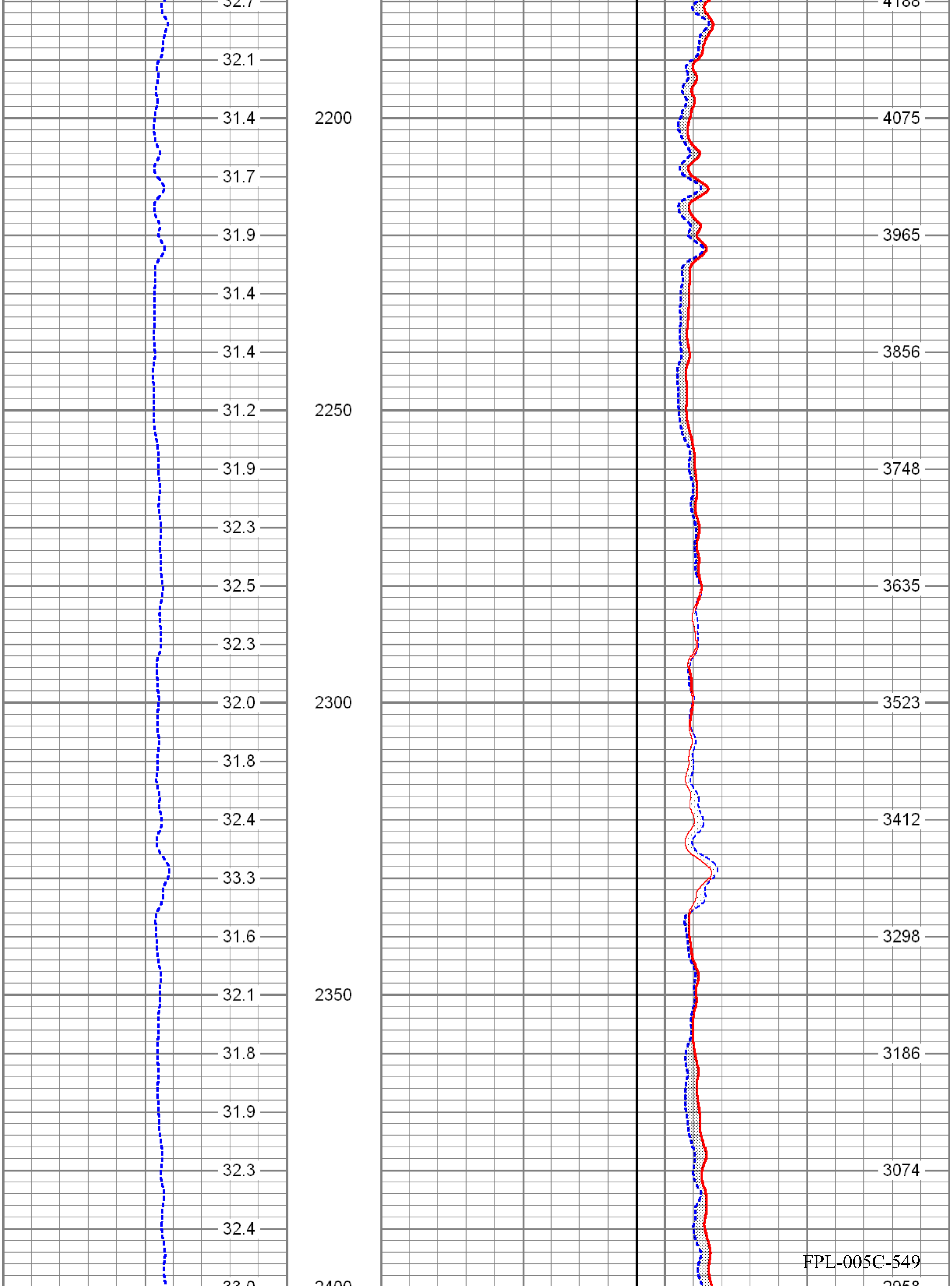
29.4
30.1
31.1
30.9
31.6
31.0
30.5
30.4
30.7
31.3
31.7
31.9
31.6
32.5
32.7
32.3
32.3
32.3
32.7
2000
2050
2100
2150
5380
5263
5168
5067
4962
4856
4754
4646
4535
4420
4305
4188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32.1
31.4
31.7
31.9
31.4
31.4
31.2
31.9
32.3
32.5
32.3
32.0
31.8
32.4
33.3
31.6
32.1
31.8
31.9
32.3
32.4
33.0
2200
2250
2300
2350
2400
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4075
3965
3856
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3523
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3298
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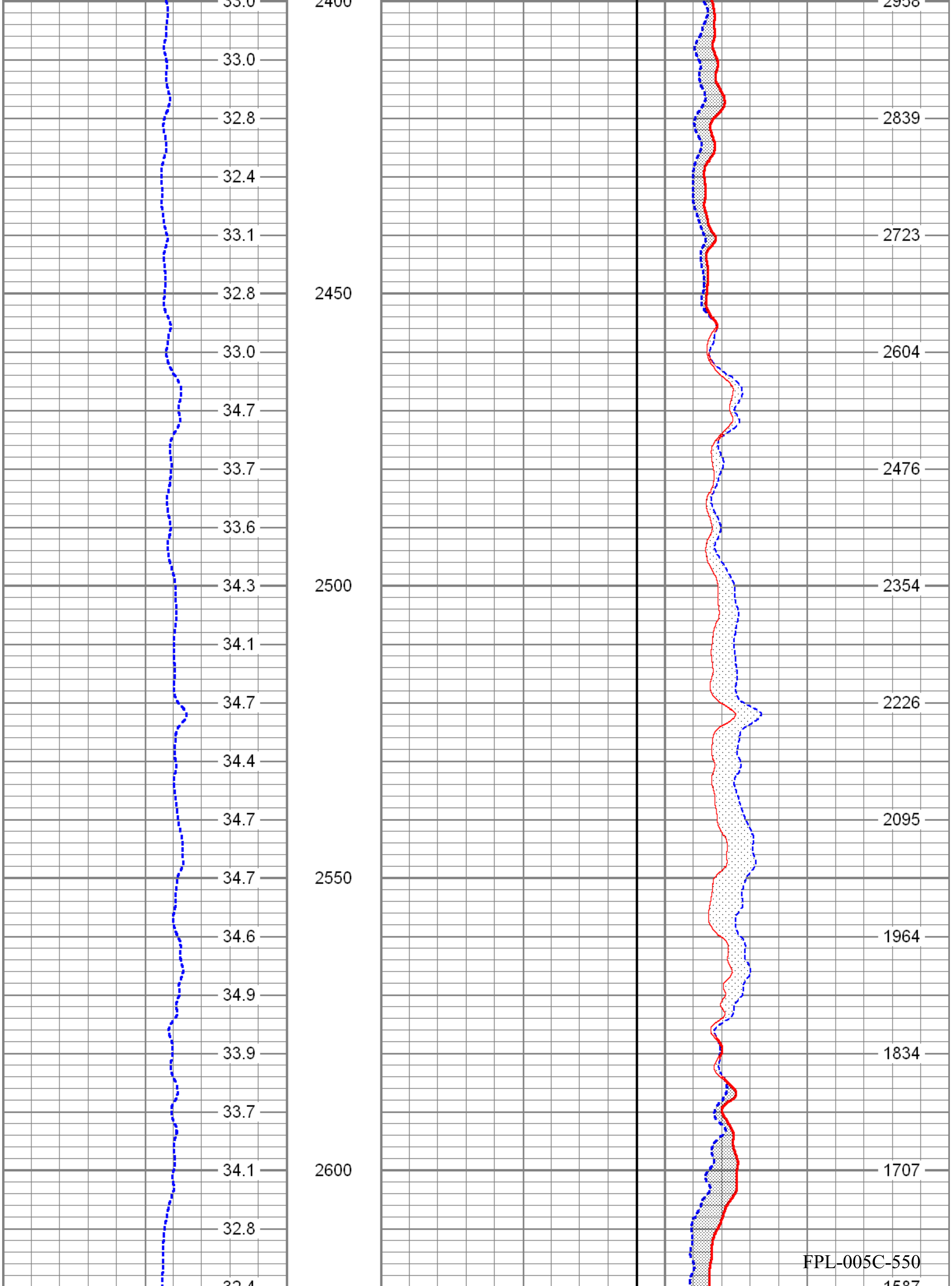
2958


33.0
2400
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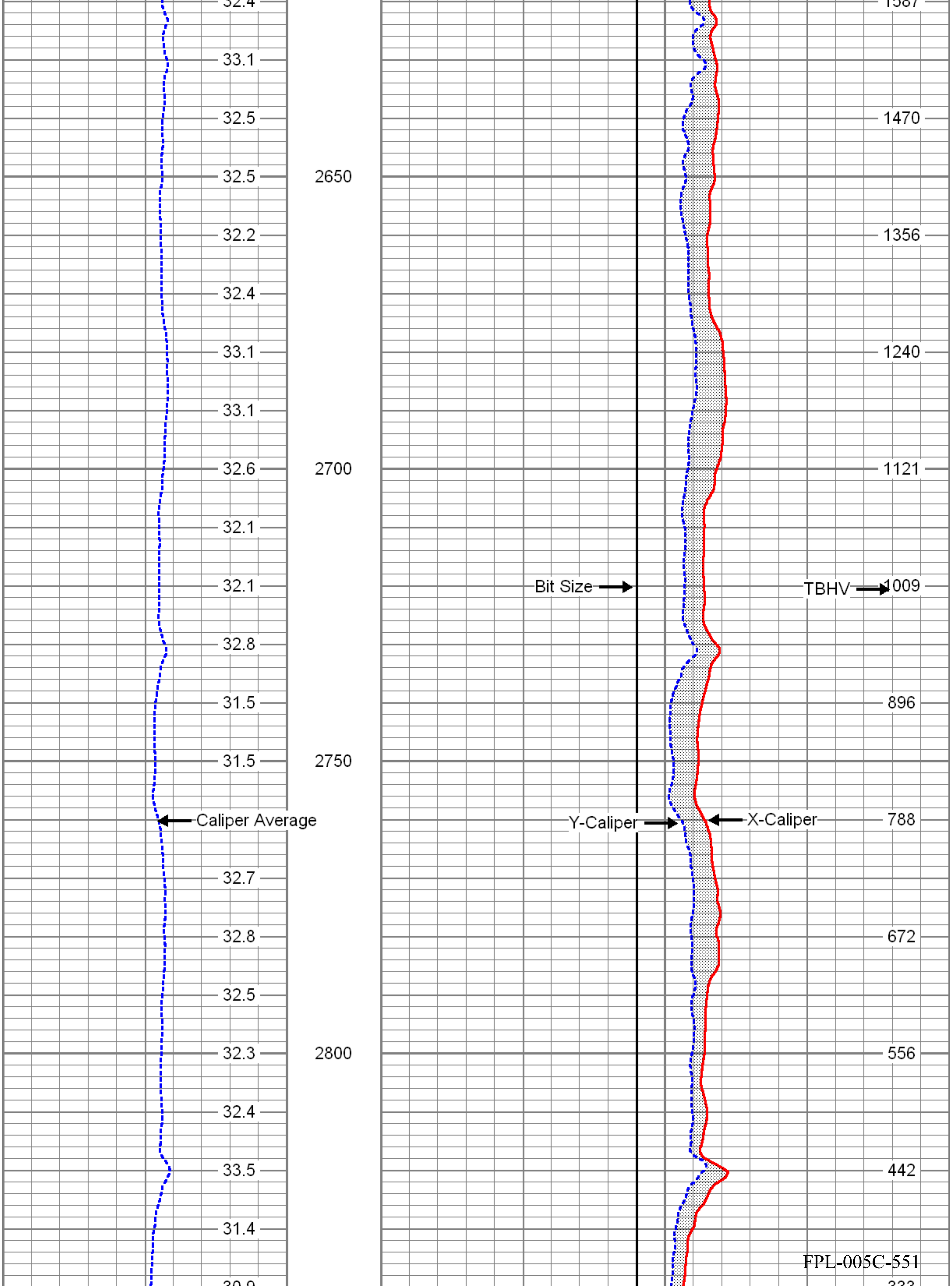
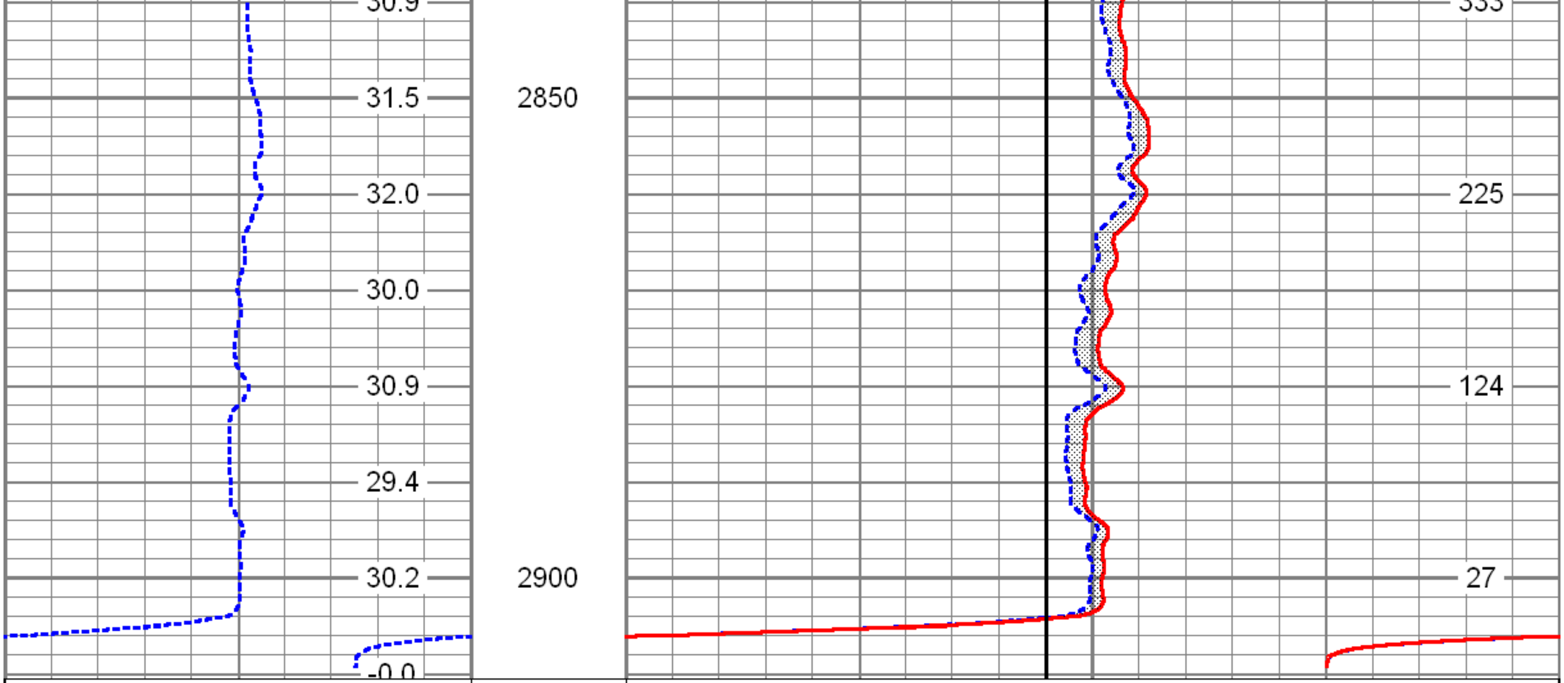
33.0
32.8
2839
32.4
33.1
2723
32.8
2450
33.0
2604
34.7
33.7
2476
33.6
34.3
2500
2354
34.1
34.7
2226
34.4
34.7
2095
34.7
2550
34.6
1964
34.9
33.9
1834
33.7
34.1
2600
1707
32.8
32.4
1587


32.4
1587
33.1
32.5
1470
32.5
2650
32.2
1356
32.4
33.1
1240
33.1
32.6
2700
1121
32.1
Bit Size
32.1
TBHV
1009
32.8
31.5
896
31.5
2750
Caliper Average
Y-Caliper
X-Caliper
788
32.7
32.8
672
32.5
32.3
2800
556
32.4
33.5
442
31.4
30.9
333



10 Caliper Average (in) 50

CALA (in)

10 Y-Caliper (in) 50

10 X-Caliper (in) 50

10 Borehole ID (in) 50

TBHV (ft3)

ALLWEBBS ENTERPRISES, INC.

REPEAT PASS

Database File:	tpew1.db
Dataset Pathname:	run2/XYCRPFIN
Presentation Format:	xyc
Dataset Creation:	Sun Jan 15 20:07:37 2012 by Calc Open-Cased 100827
Charted by:	Depth in Feet scaled 1:240

10 Caliper Average (in) 50

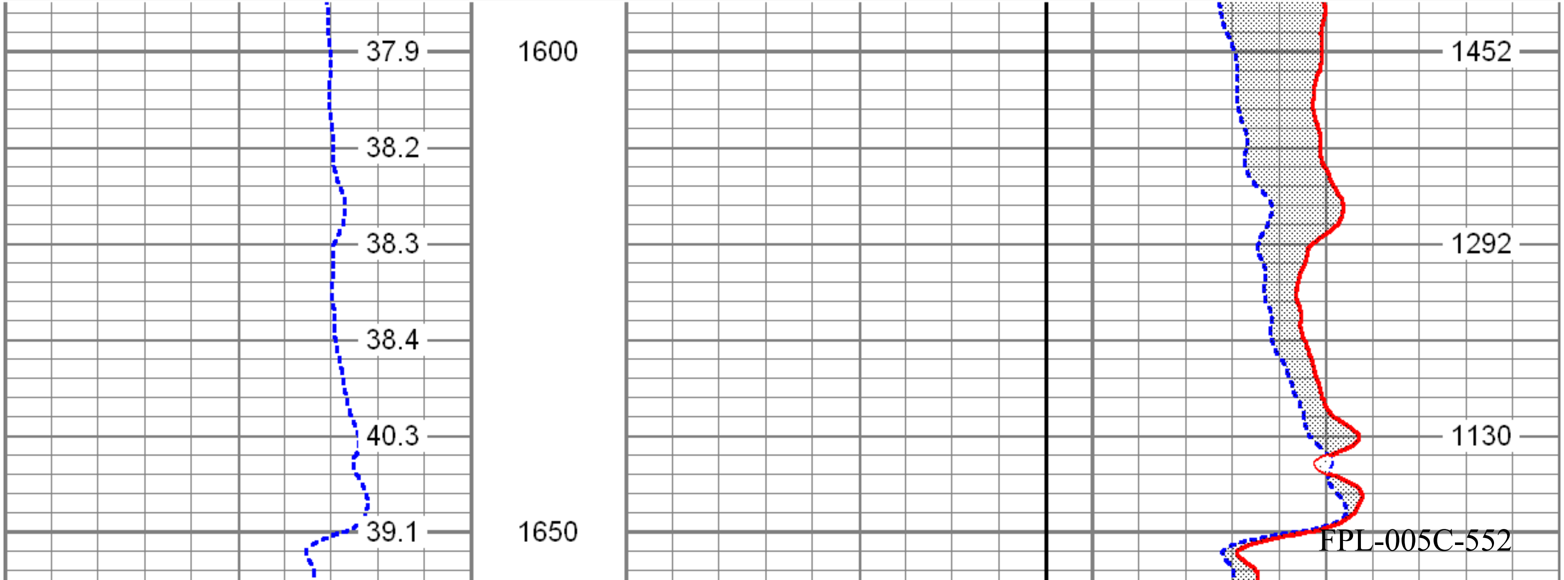
CALA (in)

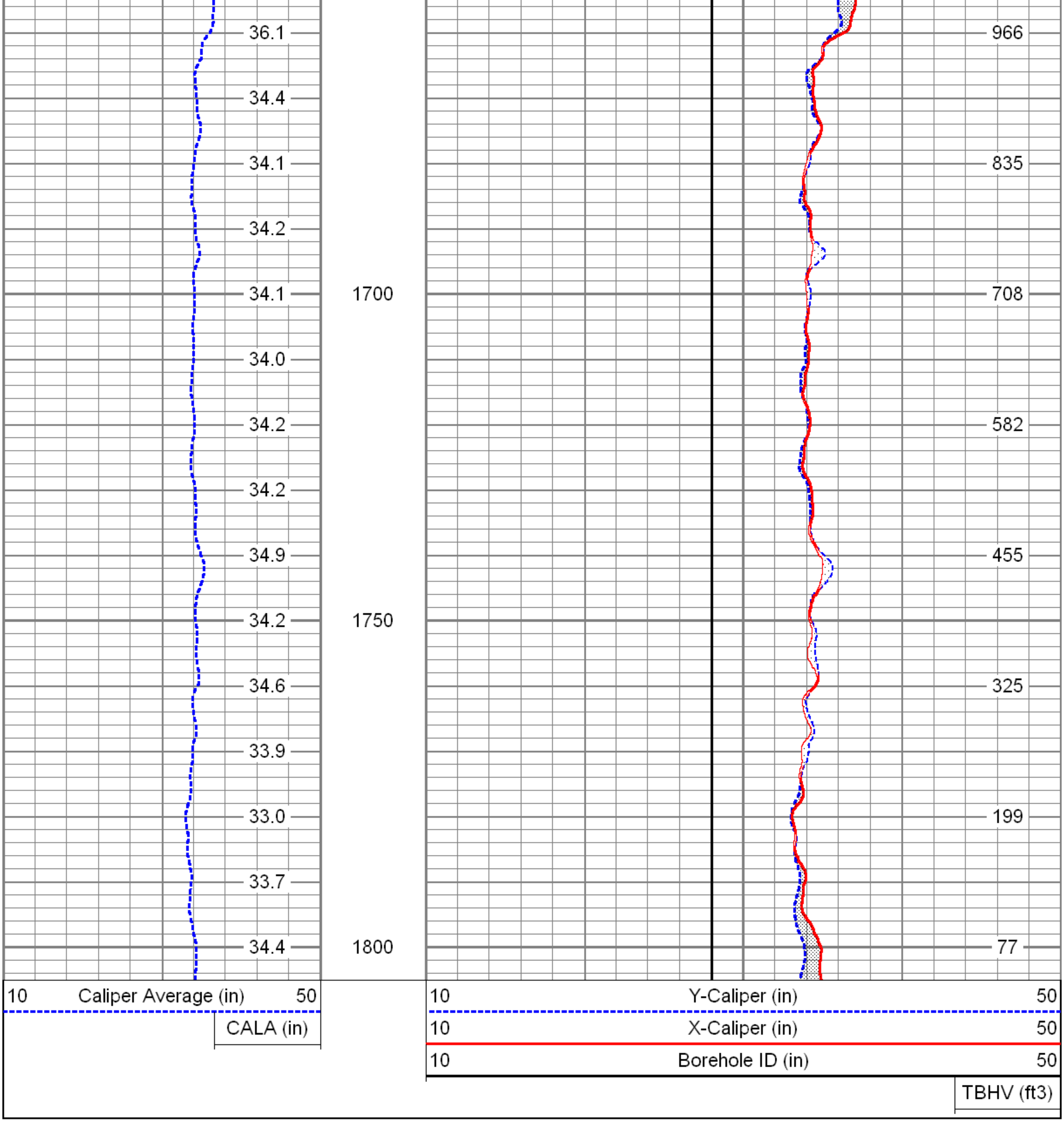
10 Y-Caliper (in) 50

10 X-Caliper (in) 50

10 Borehole ID (in) 50

TBHV (ft3)





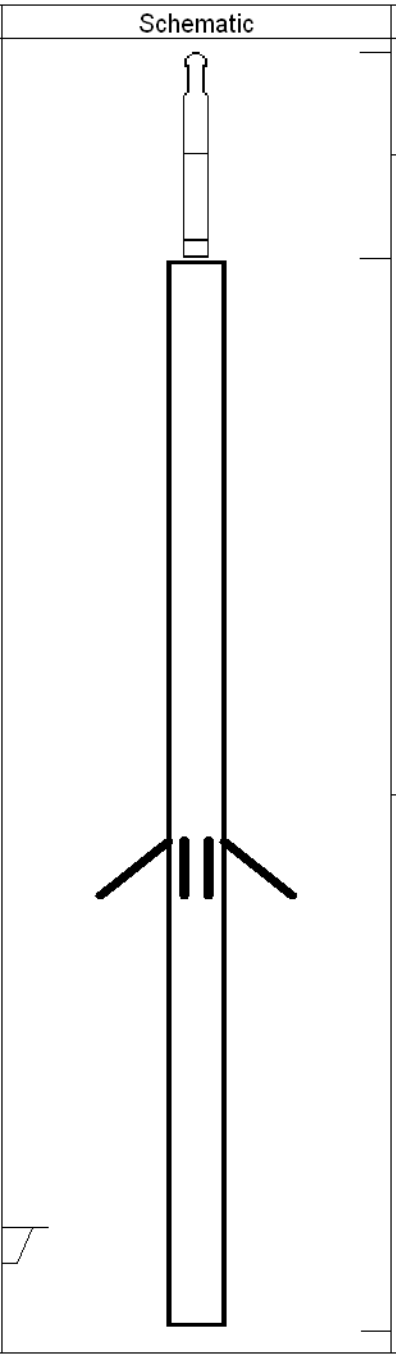
```
                                   Calibration Report
Database File:      tpew1.db
Dataset Pathname:   run2/XYCMP
Dataset Creation:   Sun Jan 15 19:57:57 2012 by Calc Open-Cased 100827

                              XY Caliper Calibration Report

               Serial Number/Model:        Probe24-60-Probe24"
               Performed:                  Sun Jan 15 18:03:58 2012

                      Ring                         X Caliper             Y Caliper
               ---------------------------         ---------------------  ---------------------
               1:        10        in              387.784      cps       416.048      cps
```

1:	10	in	387.784	cps	416.048	cps
2:	20	in	520.552	cps	576.722	cps
3:	30	in	688.426	cps	755.516	cps
4:	33.25	in	770	cps	829	cps
5:	40	in	886.54	cps	947.976	cps
6:		in		cps		cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CHD-SDSCHD (SDS) Cable Head	1.00	1.50	5.00
			XYC-Probe24" (Probe24-60) Probe XY Caliper with 24" extensions	5.17	3.50	99.00
XCAL	0.50					
YCAL	0.50					

Dataset: tpew1.db: field/well/run2/XYCMP
Total Length: 6.17 ft
Total Weight: 104.00 lb
O.D. 3.50 in

MV Geophysical

X-Y CALIPER LOG

Company	Layne Christensen Company
Well	Turkey Point EW-1
Field	Florida City
County	Miami-Dade
State/Prv	Florida

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade State/Prv Florida
Location FPL Turkey Point Power Plant
LAT: 25 25' 19" N LONG: 80 20' 08" W
McNabb Hydrogeologic Consulting, Inc.

Other Services NONE

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

Date	24-JAN-2012
Run Number	TEN
Depth Driller	2900'
Depth Logger	2900'
Bottom Logged Interval	2900'
Top Log Interval	1475'
Open Hole Size	28"/32"
Type Fluid	H2O
Density / Viscosity	NA/NA
Max. Recorded Temp.	NA
Estimated Cement Top	SURFACE
Time Well Ready	13:45 1/24/2012
Time Logger on Bottom	14:00 1/24/2012
Equipment Number	MVGS-1
Location	Ft. Myers
Recorded By	S.Miller/C.Miller
Witnessed By	M.Classen (ASRus) A.Towel (LCC)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'	FIVE	12.25"	1090'	1655'
TWO	62.5"	SURFACE	259'	SIX	42.5"	1090'	1542'
THREE	12.25"	255'	1090'	SEVEN	12.25"	1535'	3230'
FOUR	52.5"	255'	1095'	EIGHT	32"	1535'	2100'

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String	54"	0.375" WT	SURFACE	255'
Production String	44"	0.375" WT	SURFACE	1090'
Liner	34"	0.375" WT	SURFACE	1535'
Invoice No.	2012019	LTP1B.db	8fld/las/pdf	* FINAL PRINT *

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Comments

MAXIMUM Caliper Arm Extensions: 51"

BOREHOLE RECORD
RUN SIZE FROM TO
NINE 28" 2100' 2900'

MV Geophysical

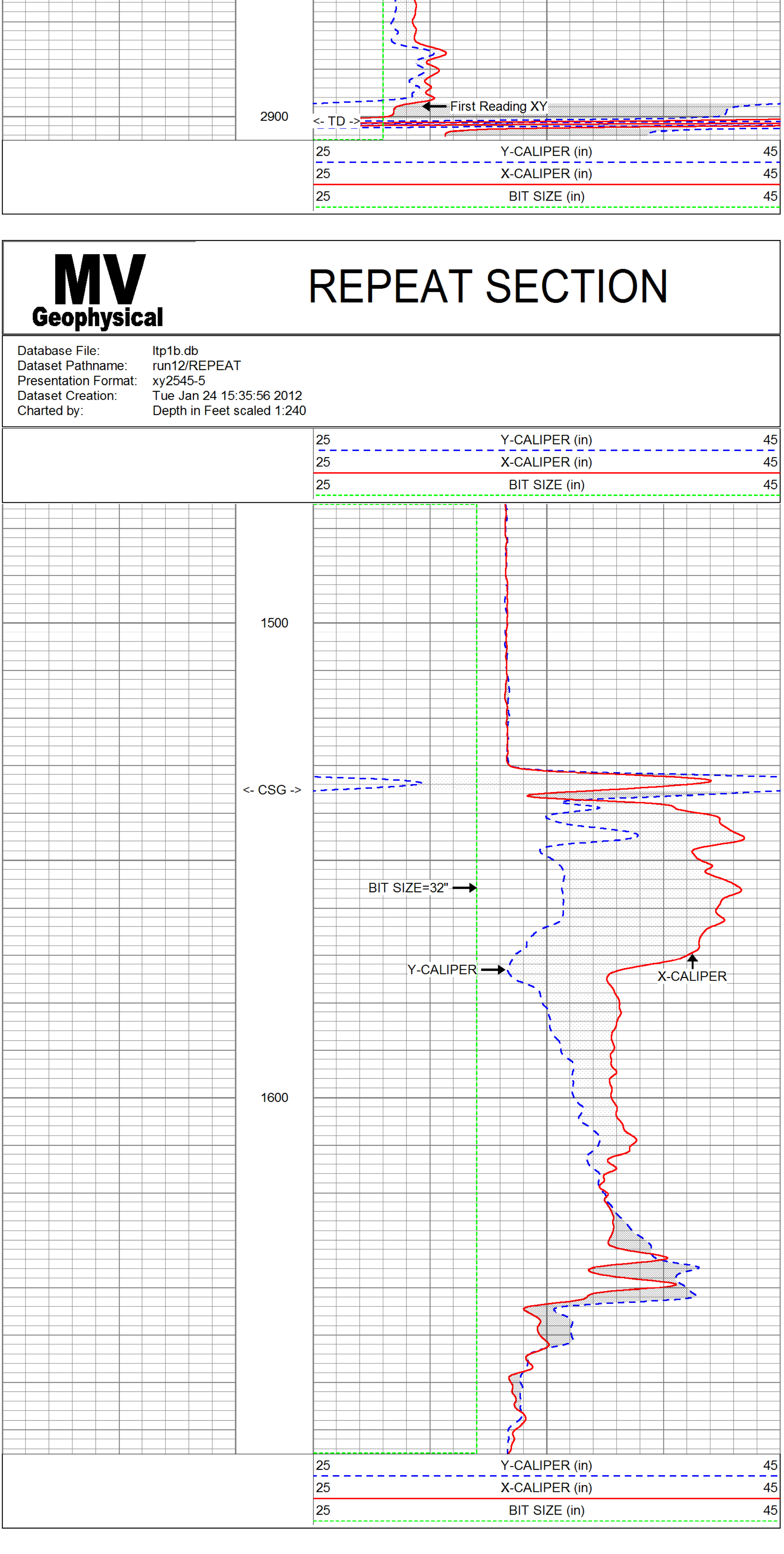
MAIN PASS

Database File: ltp1b.db
Dataset Pathname: run12/MAIN
Presentation Format: xy2545-5
Dataset Creation: Tue Jan 24 15:28:56 2012
Charted by: Depth in Feet scaled 1:240

MV Geophysical

REPEAT SECTION

Database File: ltp1b.db
Dataset Pathname: run12/REPEAT
Presentation Format: xy2545-5
Dataset Creation: Tue Jan 24 15:35:56 2012
Charted by: Depth in Feet scaled 1:240



Calibration Report

Database File: ltp1b.db
Dataset Pathname: run12/pass2
Dataset Creation: Tue Jan 24 15:16:29 2012 by Log VER_5.3

XY Caliper Calibration Report

Serial Number: 01L
Tool Model: XYCL
Performed: Tue Jan 24 15:22:18 2012

Small Ring: 33.25 in
Large Ring: 51 in

	X Caliper	Y Caliper	
Reading with Small Ring:	883	904	cps
Reading with Large Ring:	1133.3	1074.8	cps
Gain:	0.0709149	0.103923	
Offset:	-29.4878	-60.6961	

Gamma Ray Calibration Report

Serial Number: 01
Tool Model: GROH
Performed: Tue Jan 17 14:42:44 2012

Calibrator Value: 120 GAPI

Background Reading: 14.164 cps
Calibrator Reading: 132.338 cps

Sensitivity: 1.01545 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: ltp1b.db: field/well/run12/pass2
Total Length: 9.35 ft
Total Weight: 127.00 lb
O.D. 3.50 in

MV Geophysical

Company	Layne Christensen Company
Well	Turkey Point EW-1
Field	Florida City
County	Miami-Dade
State	Florida
Country	USA

Layne GEOPHYSICAL LOGGING SERVICES

X-Y CALIPER GAMMA RAY LOG

Company	FP&L
Well	TURKEY POINT EW-1
Field	FLORIDA CITY
County	MIAMI-DADE
State	FLORIDA
Country	USA

Location: FPL TURKEY POINT POWER PLANT
MCNABB HYDROGEOLOGIC CONSULTING, INC.
LAT: 25 25' 19" N LONG: 80 20' 08" W
SEC TWP RGE
API #:

Other Services: NONE

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

Date	21-FEB-2012
Run Number	FOURTEEN
Depth Driller	3230'
Depth Logger	3232'
Bottom Logged Interval	3232'
Top Log Interval	CASING
Open Hole Size	32"
Type Fluid	WATER
Density / Viscosity	NA
Max. Recorded Temp.	NA
Estimated Cement Top	NA
Time Well Ready	0800
Time Logger on Bottom	0830
Equipment Number	GEO1
Location	FT. MYERS
Recorded By	J. CATHEY
Witnessed By	M. CLASEN

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
	32.5"	CASING	2978				
	28"	2978'	2980'				
	22"	2980'	3230'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String	34"	.375" W.T.	SURFACE	1535'
Production String				
Liner				

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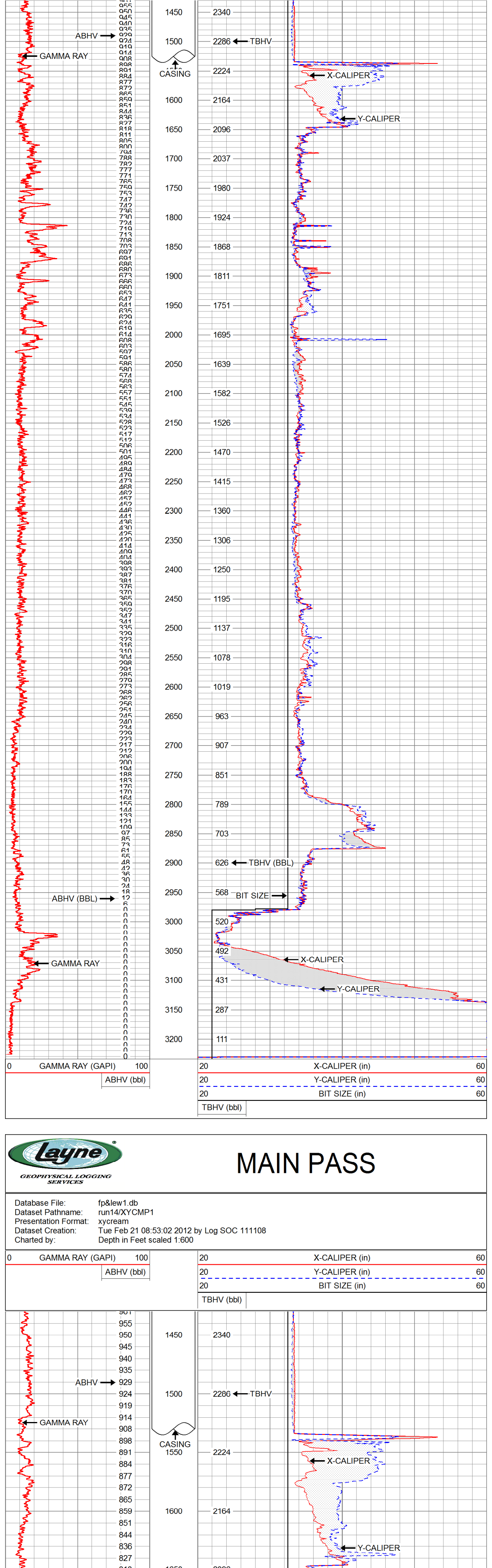
Comments

BOREHOLE VOLUME IN BARRELS
CALCULATED FOR 24" CASING

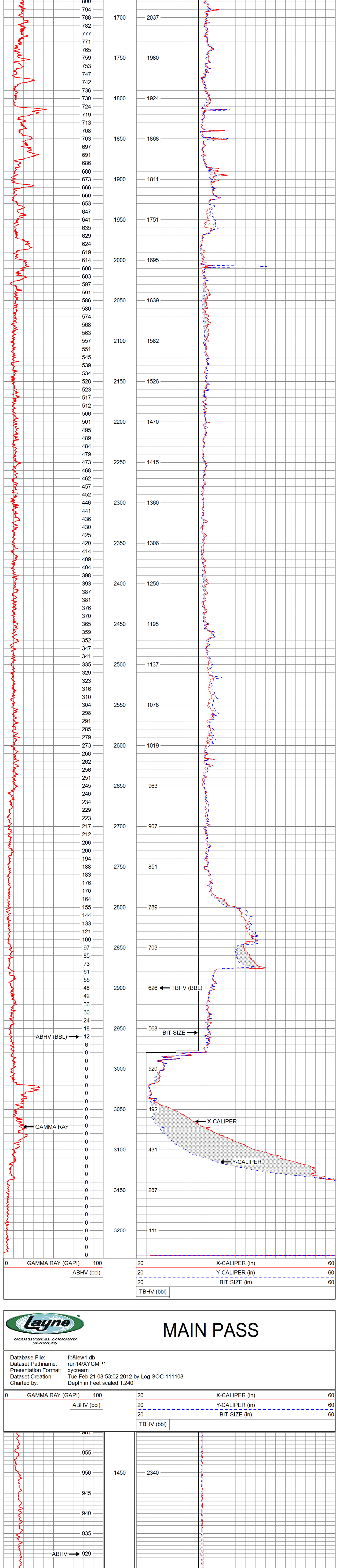
MAIN PASS

Database File: fp&lew1.db
Dataset Pathname: run14/XYCMP1
Presentation Format: xycream
Dataset Creation: Tue Feb 21 08:53:02 2012 by Log SOC 111108
Charted by: Depth in Feet scaled 1:1200



MAIN PASS

Database File: fp&lew1.db
Dataset Pathname: run14/XYCMP1
Presentation Format: xycream
Dataset Creation: Tue Feb 21 08:53:02 2012 by Log SOC 111108
Charted by: Depth in Feet scaled 1:600

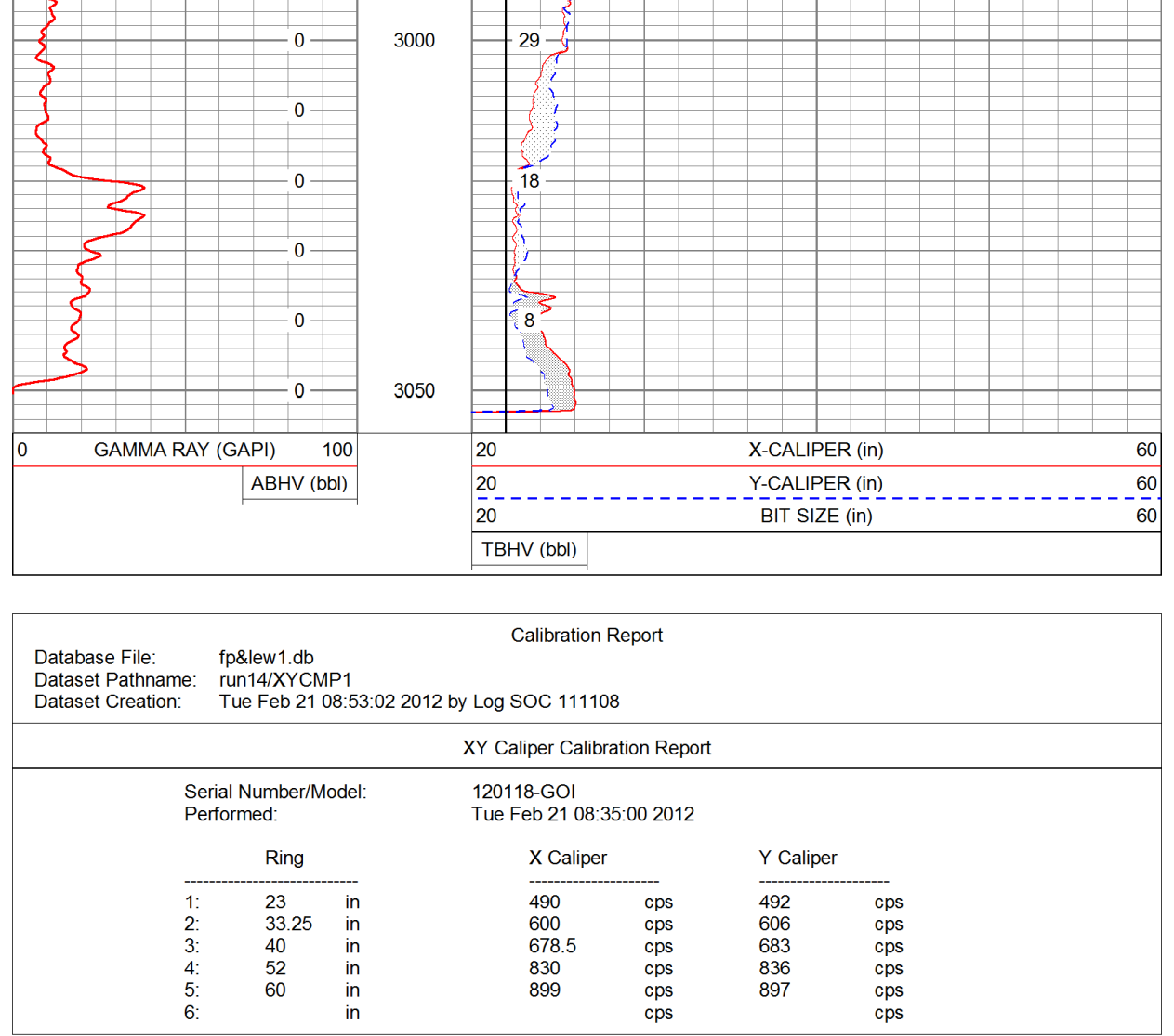


MAIN PASS

Database File: fp&lew1.db
Dataset Pathname: run14/XYCMP1
Presentation Format: xycream
Dataset Creation: Tue Feb 21 08:53:02 2012 by Log SOC 111108
Charted by: Depth in Feet scaled 1:240

REPEAT PASS

Database File: fp&lew1.db
Dataset Pathname: run14/XYCRP.1
Presentation Format: xycream
Dataset Creation: Tue Feb 21 08:36:30 2012 by Calc SOC 111108
Charted by: Depth in Feet scaled 1:240



Calibration Report

Database File: fp&lew1.db
Dataset Pathname: run14/XYCMP1
Dataset Creation: Tue Feb 21 08:53:02 2012 by Log SOC 111108

XY Caliper Calibration Report

Serial Number/Model: 120118-GOI
Performed: Tue Feb 21 08:35:00 2012

	Ring		X Caliper		Y Caliper	
1:	23	in	490	cps	492	cps
2:	33.25	in	600	cps	606	cps
3:	40	in	678.5	cps	683	cps
4:	52	in	830	cps	836	cps
5:	60	in	899	cps	897	cps
6:		in		cps		cps

Gamma Ray Calibration Report

Serial Number:	120116	
Tool Model:	PTS_OH	
Performed:	Tue Feb 21 07:11:13 2012	
Calibrator Value:	300.0	GAPI
Background Reading:	231.1	cps
Calibrator Reading:	1930.6	cps
Sensitivity:	0.3000	GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
GR	7.08		GR-PTS_OH (120116) Open Hole Gamma Ray	3.50	3.38	47.00
YCAL	1.58		XYC-GOI (120118) 4 Arm X-Y Caliper	6.25	3.25	45.00
XCAL	1.50					

Dataset: fp&lew1.db: field/well/run14/XYCMP1
Total Length: 9.75 ft
Total Weight: 92.00 lb
O.D. 3.38 in

GEOPHYSICAL LOGGING SERVICES

24" CASING CEMENT TOP TEMPERATURE LOG

Company	FP&L
Well	TURKEY POINT EW-1
Field	FLORIDA CITY
County	MIAMI-DADE
State	FLORIDA
Country	USA

Company	FP&L
Well	TURKEY POINT EW-1
Field	FLORIDA CITY
County	MIAMI-DADE
State	FLORIDA
Country	USA
Location:	FPL TURKEY POINT POWER PLANT MCNABB HYDROGEOLOGIC CONSULTING, INC. LAT: 25 25' 19" N LONG: 80 20' 08" W
API #:	
SEC	TWP RGE
Other Services	NONE
Permanent Datum	PAD LEVEL
Elevation	
Log Measured From	PAD LEVEL
Drilling Measured From	PAD LEVEL
Elevation	K.B. D.F. G.L.

Date	3-MAR-2012	SEE COMMENTS
Run Number	FIFTEEN	
Depth Driller	3230'	
Depth Logger	2970'	
Bottom Logged Interval	2970'	
Top Log Interval	SURFACE	
Open Hole Size	22"	
Type Fluid	WATER	
Density / Viscosity	NA	
Max. Recorded Temp.	140 F	
Estimated Cement Top	310'	
Time Well Ready	SEE COMMENTS	
Time Logger on Bottom	SEE COMMENTS	
Equipment Number	GEO1	
Location	FT. MYERS	
Recorded By	J. CATHEY	
Witnessed By	S. DURAL	

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
	32.5"	CASING	2978'				
	24"	2978'	2980'				
	22"	2980'	3230'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String	34"	.375" W.T.	SURFACE	1535'
Production String	24"	.500" W.T.	SURFACE	2985'
Liner				

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Comments

STAGE 1 LOGGED 3-MAR-2012 @ 03:30
STAGE 2 LOGGED 3-MAR-2012 @ 17:00
STAGE 3 LOGGED 4-MAR-2012 @ 03:30
STAGE 4 LOGGED 4-MAR-2012 @ 12:00
STAGE 5 LOGGED 4-MAR-2012 @ 21:30
STAGE 6 LOGGED 5-MAR-2012 @ 05:45
STAGE 7 LOGGED 5-MAR-2012 @ 19:15
STAGE 8 LOGGED 6-MAR-2012 @ 07:00
STAGE 9 LOGGED 6-MAR-2012 @ 14:15

GEOPHYSICAL LOGGING SERVICES

MERGED CTL

Database File:	fp&lew1.db
Dataset Pathname:	run15/TEMP
Presentation Format:	ctlmrg
Dataset Creation:	Sat Mar 03 03:04:36 2012 by Log SOC 111108
Charted by:	Depth in Feet scaled 1:600

30	X-Caliper (in)	50

50	Stage 1 (degF)	150
50	Stage 2 (degF)	150
50	Stage 3 (degF)	150
50	Stage 4 (degF)	150
50	Stage 5 (degF)	150
50	Stage 6 (degF)	150
50	Stage 7 (degF)	150
50	Stage 8 (degF)	150
50	Stage 9 (degF)	150

30	X-Caliper (in)	50

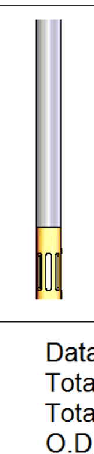
50	Stage 1 (degF)	150
50	Stage 2 (degF)	150
50	Stage 3 (degF)	150
50	Stage 4 (degF)	150
50	Stage 5 (degF)	150
50	Stage 6 (degF)	150
50	Stage 7 (degF)	150
50	Stage 8 (degF)	150
50	Stage 9 (degF)	150

Calibration Report

Database File:	fp&lew1.db
Dataset Pathname:	run15/TEMP
Dataset Creation:	Sat Mar 03 03:04:36 2012 by Log SOC 111108

Temperature Calibration Report

Serial Number:	111143	
Tool Model:	1.375TEMP	
Performed:	Wed Jan 25 10:30:05 2012	
	Reference	Reading
Low Reference:	0.00 degF	0.00 cps
High Reference:	100.00 degF	1000.00cps
Gain:	0.10	
Offset:	0.00	
Delta Spacing	1	

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
TEMP	0.13		TEMP-1.375TEMP (111143) Temperature Tool	1.33	1.38	5.00

Dataset:	fp&lew1.db: field/well/run15/TEMP
Total Length:	1.33 ft
Total Weight:	5.00 lb
O.D.	1.38 in

GEOPHYSICAL LOGGING SERVICES

STAGE 1

Database File: fp&lew1.db
Dataset Pathname: run15/TEMP
Presentation Format: temp
Dataset Creation: Sat Mar 03 03:04:36 2012 by Log SOC 111108
Charted by: Depth in Feet scaled 1:240

MV Geophysical

CEMENT BOND LOG w/ VARIABLE DENSITY LOG

Company	Layne Christensen Company		
Well	Turkey Point EW-1		
Field	Florida City		
County	Miami-Dade	State/Prv	Florida
Location	FPL Turkey Point Power Plant LAT: 25 25' 19" N LONG: 80 20' 08" W McNabb Hydrogeologic Consulting, Inc.	Other Services	NONE
Permanent Datum	Pad Level	Elevation	K.B. D.F. G.L.
Log Measured From	Pad Level		
Drilling Measured From	Pad Level		

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade
State/Prv Florida

Date	7-MAR-2012
Run Number	SIXTEEN
Depth Driller	2985'
Depth Logger	2985'
Bottom Logged Interval	2985'
Top Log Interval	15'
Open Hole Size	28"/32"
Type Fluid	H2O
Density / Viscosity	NA/NA
Max. Recorded Temp.	NA
Estimated Cement Top	SURFACE
Time Well Ready	12:00 3/7/2012
Time Logger on Bottom	13:00 3/7/2012
Equipment Number	MVGS-1
Location	Ft. Myers
Recorded By	S.Miller/C.Miller
Witnessed By	S.Durall (MHC) / K.Greuel (LCC)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'	FIVE	12.25"	1090'	1655'
TWO	62.5"	SURFACE	259'	SIX	42.5"	1090'	1542'
THREE	12.25"	255'	1090'	SEVEN	12.25"	1535'	3230'
FOUR	52.5"	255'	1095'	EIGHT	32"	1535'	2100'

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String	54"	0.375" WT	SURFACE	255'
Production String	44"	0.375" WT	SURFACE	1090'
Liner	34"	0.375" WT	SURFACE	1535'
Invoice No.	2012045	LTP1B.db	8fld/las/pdf	* FINAL PRINT *

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Comments

CEMENT BOND LOG was run centralized.

BOREHOLE RECORD
RUN SIZE FROM TO
NINE 28" 2100' 2900'

CASING RECORD
RUN SIZE (WT) FROM TO
SIX 24" (0.500") SURFACE 2985'

MV Geophysical

MAIN PASS

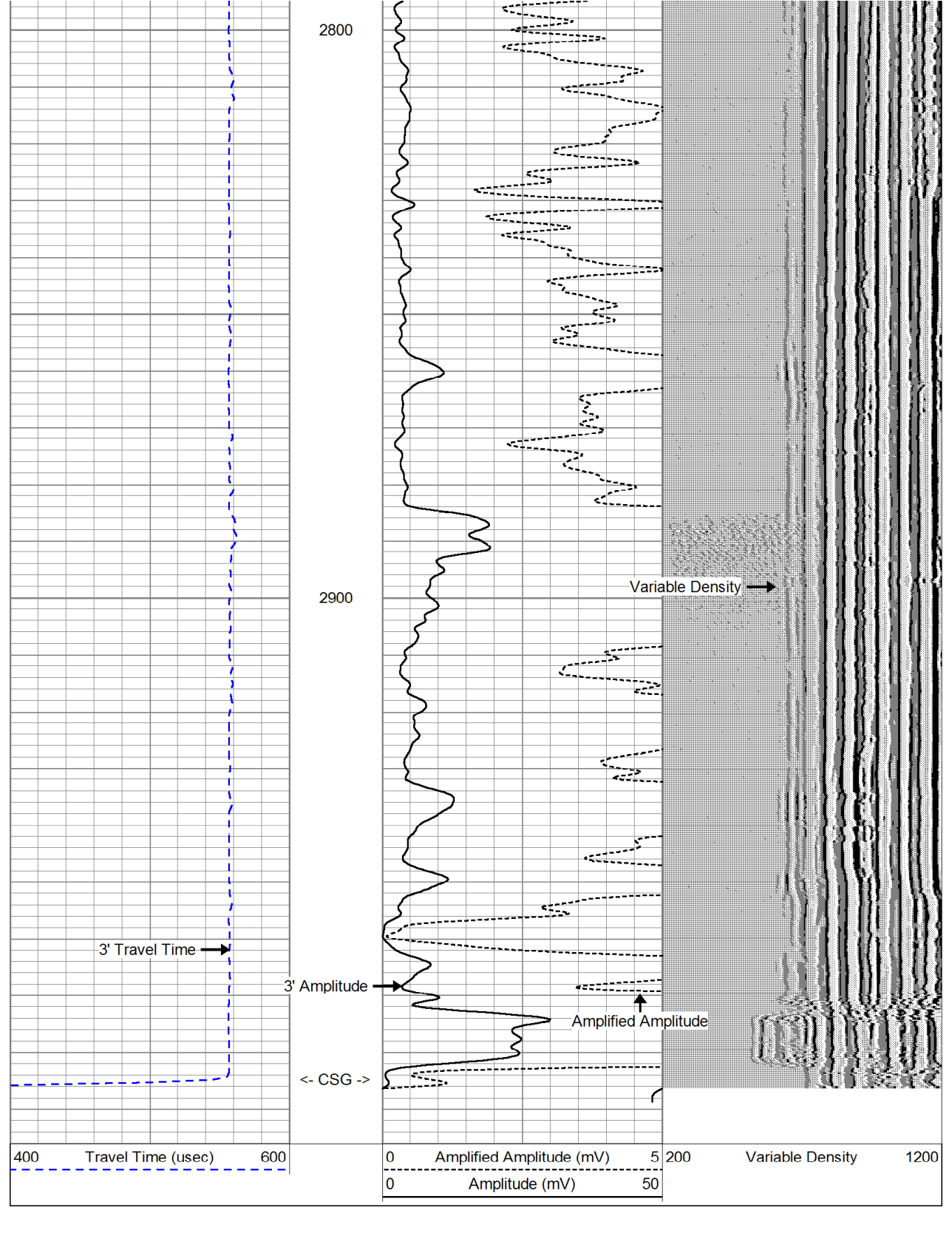
Database File: ltp1c.db
Dataset Pathname: run13/MAIN
Presentation Format: cbl24
Dataset Creation: Wed Mar 07 15:51:56 2012
Charted by: Depth in Feet scaled 1:240

400 Travel Time (usec) 600
0 Amplified Amplitude (mV) 5
0 Amplitude (mV) 50
200 Variable Density 1200
0
3' Travel Time
3' Amplitude
Variable Density
100
2900
3' Travel Time
3' Amplitude
Amplified Amplitude
<- CSG ->
400 Travel Time (usec) 600
0 Amplified Amplitude (mV) 5
0 Amplitude (mV) 50
200 Variable Density 1200

MV Geophysical

REPEAT SECTION

Database File: ltp1c.db
Dataset Pathname: run13/REPEAT
Presentation Format: cbl24
Dataset Creation: Wed Mar 07 15:58:21 2012
Charted by: Depth in Feet scaled 1:240

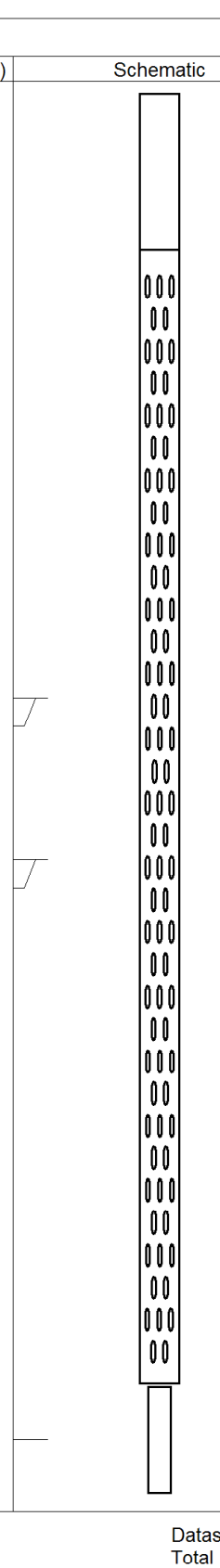


Calibration Report

Database File: ltp1c.db
Dataset Pathname: run13/pass2
Dataset Creation: Wed Mar 07 14:38:31 2012 by Log VER_5.3

Cement Bond Log Calibration Report

Serial Number:	Bond366		
Tool Model:	SLT_Bond		
Performed:	Wed Mar 07 14:38:25 2012		
Depth:	272.023	ft	
Casing Diameter:	24	in	
	3' Spacing	5' Spacing	
Signal Zero:	0.35	1	mV
Calibrated Amplitude:	29.5181	29.5181	mV
Reading at Signal Zero:	0.162402	-0.205469	V
Reading in Free Pipe:	1.64111	-0.208643	V
Gain:	19.7254	-8985.4	
Offset:	-2.85344	-1845.22	

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
TT3 WVF3	9.83 9.83		SLT-SLT_Bond (Bond366)	16.00	3.50	127.00
TT5 WVF5	7.83 7.83					
CCL	0.67		CCL-MVGS 1.9 (RTS-CCL-1)	1.33	1.90	8.00

Dataset: ltp1c.db: field/well/run13/pass1
Total Length: 17.33 ft
Total Weight: 135.00 lb
O.D. 3.50 in

MV Geophysical

Company	Layne Christensen Company		
Well	Turkey Point EW-1		
Field	Florida City		
County	Miami-Dade		
State	Florida	Country	USA

LAYNE GEOPHYSICAL LOGGING SERVICES

HIGH RESOLUTION TEMPERATURE LOG

Company FP&L
Well TURKEY POINT EW-1
Field FLORIDA CITY
County MIAMI-DADE
State FLORIDA
Country USA

Company	FP&L
Well	TURKEY POINT EW-1
Field	FLORIDA CITY
County	MIAMI-DADE
State	FLORIDA
Country	USA

Location: API #:
FPL TURKEY POINT POWER PLANT
MCNABB HYDROGEOLOGIC CONSULTING, INC.
LAT: 25 25' 19" N LONG: 80 20' 08" W
SEC TWP RGE

Other Services
NONE

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

Date	15-JUNE-2012
Run Number	SIXTEEN
Depth Driller	3230'
Depth Logger	3230'
Bottom Logged Interval	3230'
Top Log Interval	SURFACE
Open Hole Size	22"
Type Fluid	WATER
Density / Viscosity	NA
Max. Recorded Temp.	82 F
Estimated Cement Top	NA
Time Well Ready	1000
Time Logger on Bottom	1100
Equipment Number	GEO1
Location	FT. MYERS
Recorded By	J. CATHEY
Witnessed By	S. DURALL

Borehole Record			Tubing Record			
Run Number						
Bit	From	To	Size	Weight	From	To
32.5"	CASING	2978'				
24"	2978'	2980'				
22"	2980'	3230'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	34"	.375" W.T.	SURFACE	1535'
Prot. String	24"	.500" W.T.	SURFACE	2985'
Production String				
Liner	18" FRP	.760" W.T.	SURFACE	2975'

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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

WELL STATIC SINCE APPROXIMATELY
MARCH 2012

LAYNE GEOPHYSICAL LOGGING SERVICES

FINAL TEMP LOG

Database File:	fp&lew1.db
Dataset Pathname:	run16/TEMP
Presentation Format:	temp
Dataset Creation:	Fri Jun 15 10:28:15 2012 by Log SOC 111108
Charted by:	Depth in Feet scaled 1:240

Calibration Report

Database File:	fp&lew1.db
Dataset Pathname:	run16/TEMP
Dataset Creation:	Fri Jun 15 10:28:15 2012 by Log SOC 111108

Temperature Calibration Report

Serial Number:	111142			
Tool Model:	1.375TEMP			
Performed:	Wed Jan 25 10:06:36 2012			
	Reference		Reading	
Low Reference:	0.00	degF	0.00	cps
High Reference:	1.00	degF	1.00	cps
Gain:	0.10			
Offset:	0.00			
Delta Spacing	1			

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
TEMP	0.13		TEMP-1.375TEMP (111142) Temperature Tool	1.33	1.38	5.00

Dataset:	fp&lew1.db: field/well/run16/TEMP
Total Length:	1.33 ft
Total Weight:	5.00 lb
O.D.	1.38 in