

Attachment 8
Geophysical Logs



X-Y CALIPER
GAMMA RAY
LOG

Company CH2M HILL
Well MW-1
Field BISCAYNE LANDING, NORTH MIAMI
County DADE
State FLORIDA

Company CH2M HILL
Well MW-1
Field BISCAYNE LANDING, NORTH MIAMI
County DADE State FLORIDA

Location: API # :
SEC TWP RGE
Permanent Datum PAD
Log Measured From PAD
Drilling Measured From PAD
Elevation
K.B.
D.F.
G.L.

Date	30-AUG-2012			
Run Number	SIX			
Depth Driller	1500'			
Depth Logger	1500'			
Bottom Logged Interval	1500'			
Top Log Interval	CASING			
Open Hole Size	18.5"12.25"9.875"			
Type Fluid	MUD			
Density / Viscosity	NA			
Max. Recorded Temp.	NA			
Estimated Cement Top	NA			
Time Well Ready	0300			
Time Logger on Bottom	0320			
Equipment Number	104			
Location	FT MYERS			
Recorded By	GARCIA			
Witnessed By	C. IVERY			
Borehole Record		Borehole Record		
Run Number	Bit	From	To	Run No
ONE	12.25"	SURFACE	375'	FIVE
TWO	40.5"	CASING	348'	SIX
THREE	12.25"	CASING	1050'	SEVEN
FOUR	28.5"	CASING	954'	
Casing Record	Size	Wgt/Ft	Top	
Surface String	42"	.375" W.T.	SURFACE	
Prot. String	30"	.375" W.T.	SURFACE	
Production String	20"	.375" W.T.	SURFACE	
Liner			Bottom	
			60'	
			345'	
			950'	

<<< 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

FLUID RESISTIVITY TEMPERATURE
DUAL INDUCTION
BOREHOLE COMPENSATED SONIC
FLOWMETER
BOREHOLE TELEVIEWER

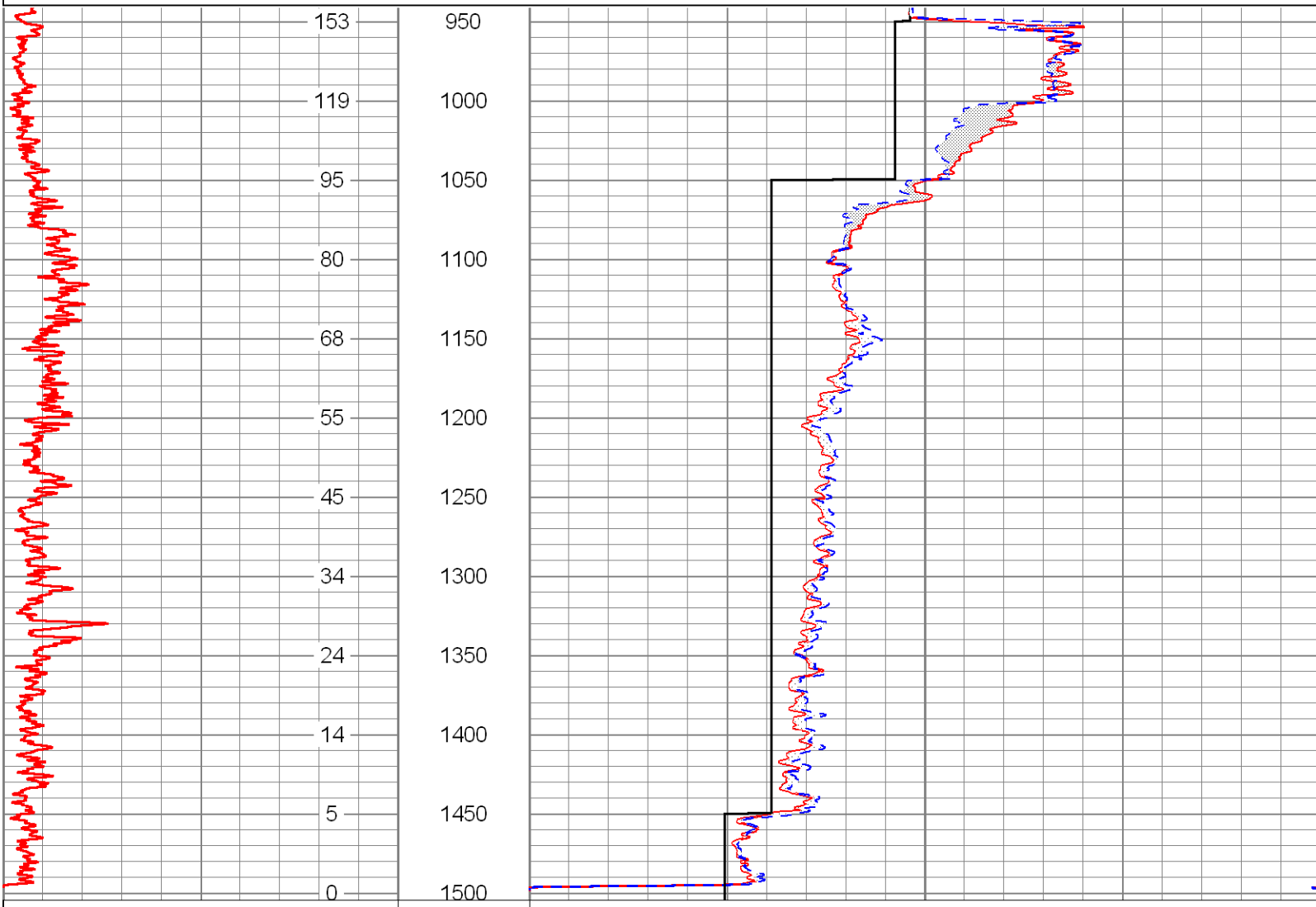


MAIN PASS

Database File: biscmw1.db
 Dataset Pathname: run6/pass3.5
 Presentation Format: grxyc
 Dataset Creation: Thu Aug 30 01:46:05 2012 by Calc SOC 110722
 Charted by: Depth in Feet scaled 1:1200

0	GAMMA RAY (GAPI)	100
	TBHV (bbl)	

0	X-CALIPER (in)	40
0	Y-CALIPER (in)	40
0	BIT SIZE (in)	40



0	GAMMA RAY (GAPI)	100
	TBHV (bbl)	

0	X-CALIPER (in)	40
0	Y-CALIPER (in)	40
0	BIT SIZE (in)	40



MAIN PASS

Database File: biscmw1.db
 Dataset Pathname: run6/pass3.5
 Presentation Format: grxyc
 Dataset Creation: Thu Aug 30 01:46:05 2012 by Calc SOC 110722
 Charted by: Depth in Feet scaled 1:600

0	GAMMA RAY (GAPI)	100
---	------------------	-----

0	X-CALIPER (in)	40
---	----------------	----

TBHV (bbl)

0

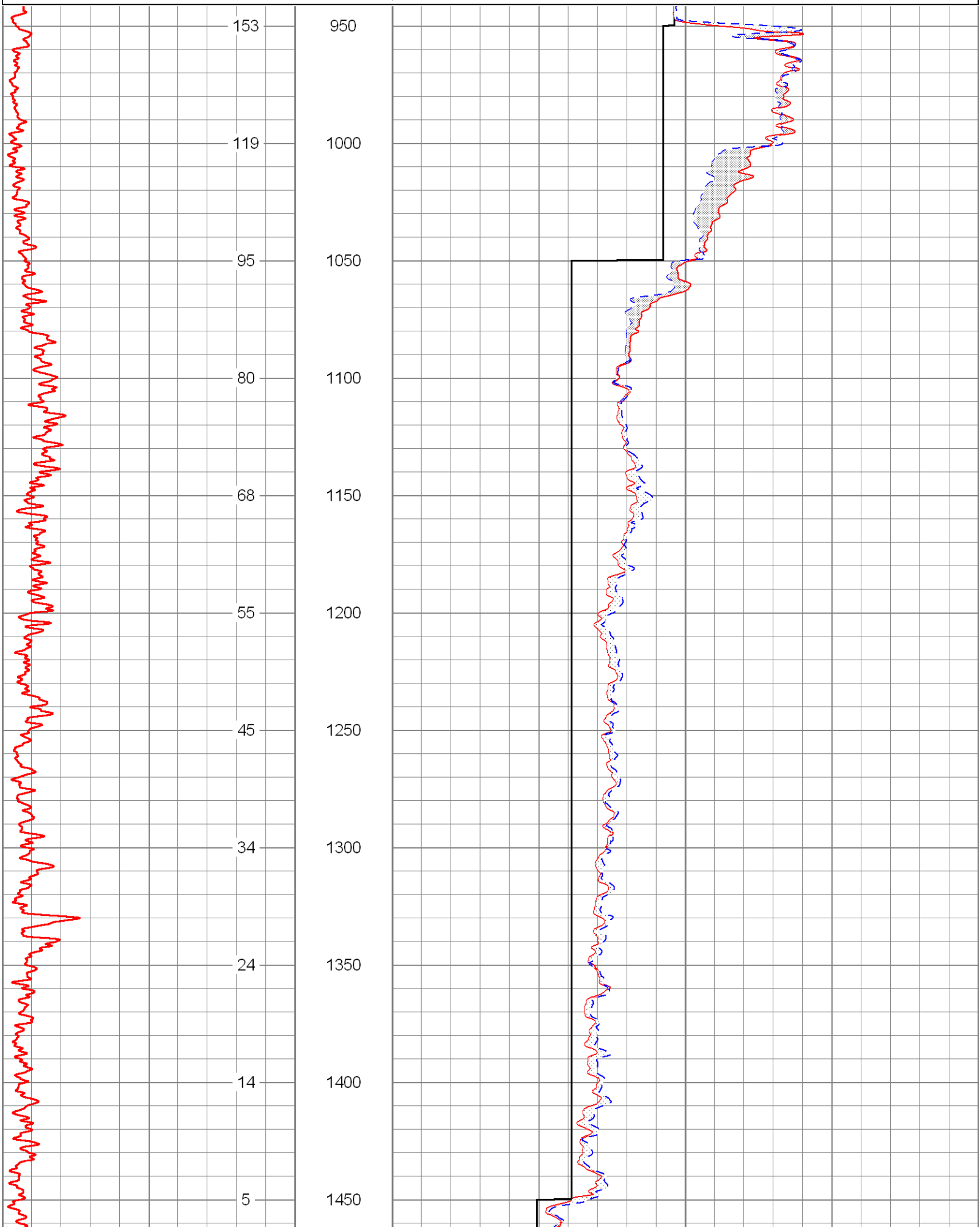
Y-CALIPER (in)

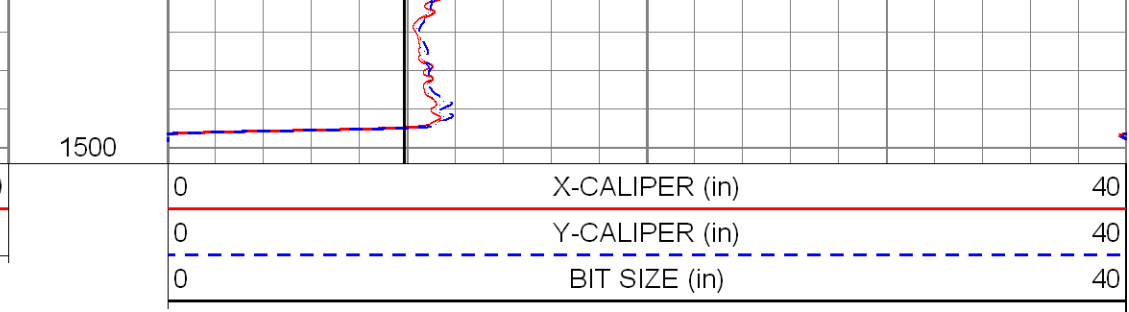
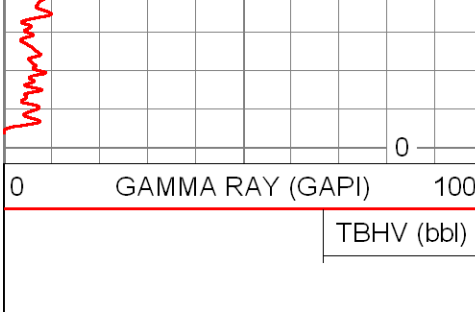
40

0

BIT SIZE (in)

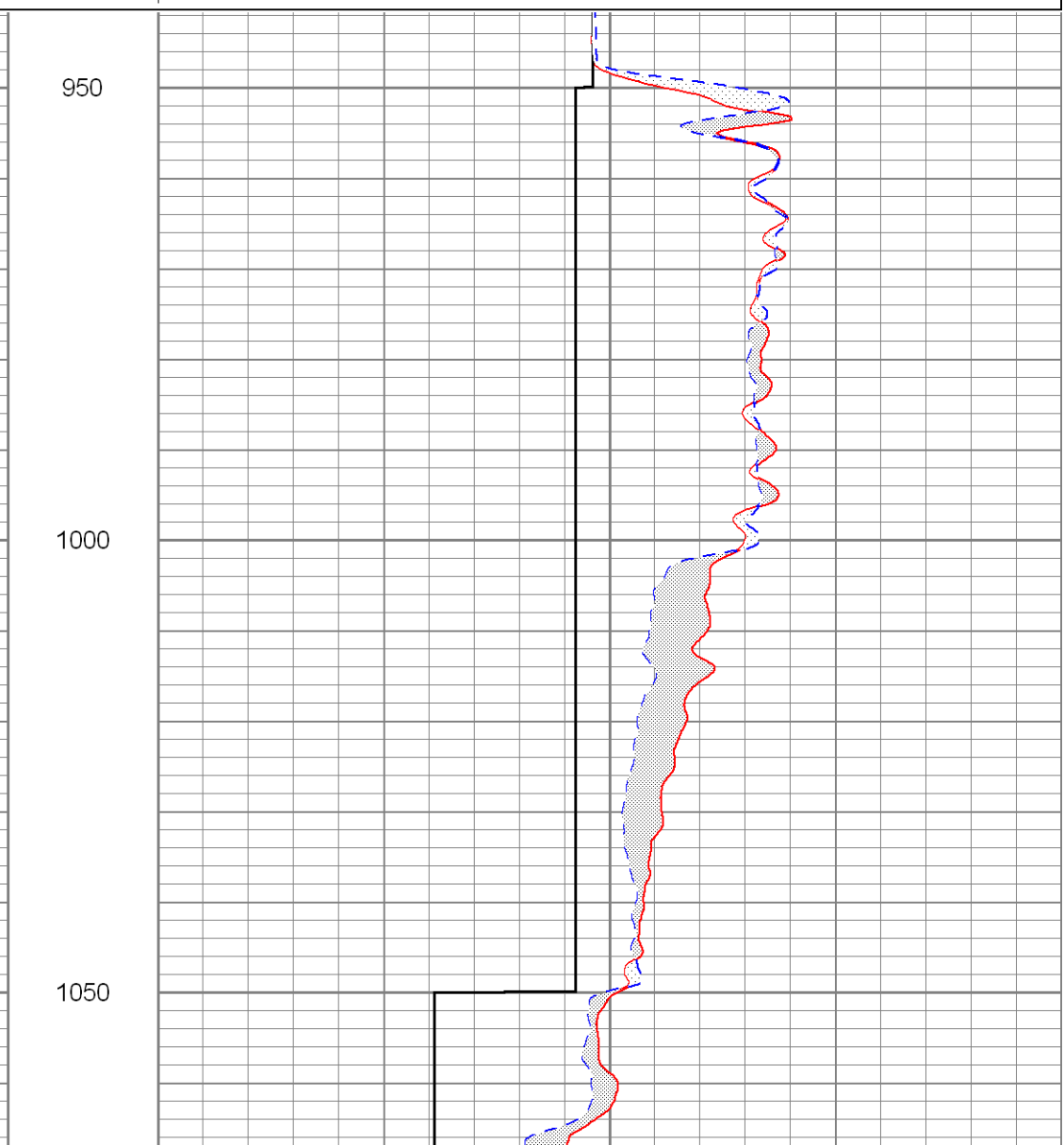
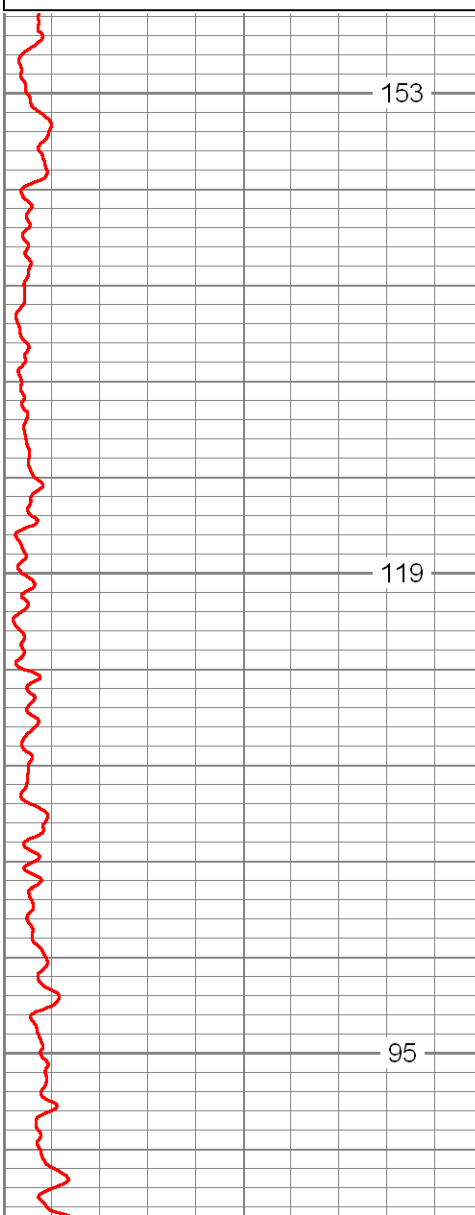
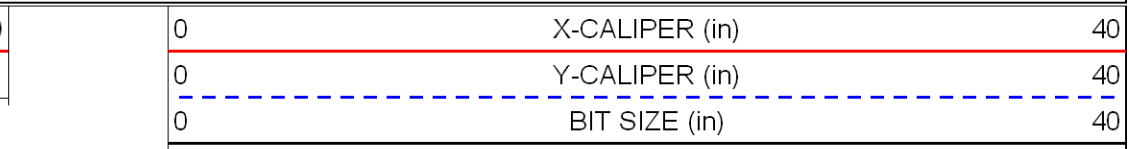
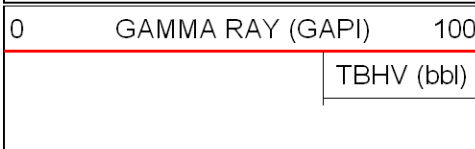
40

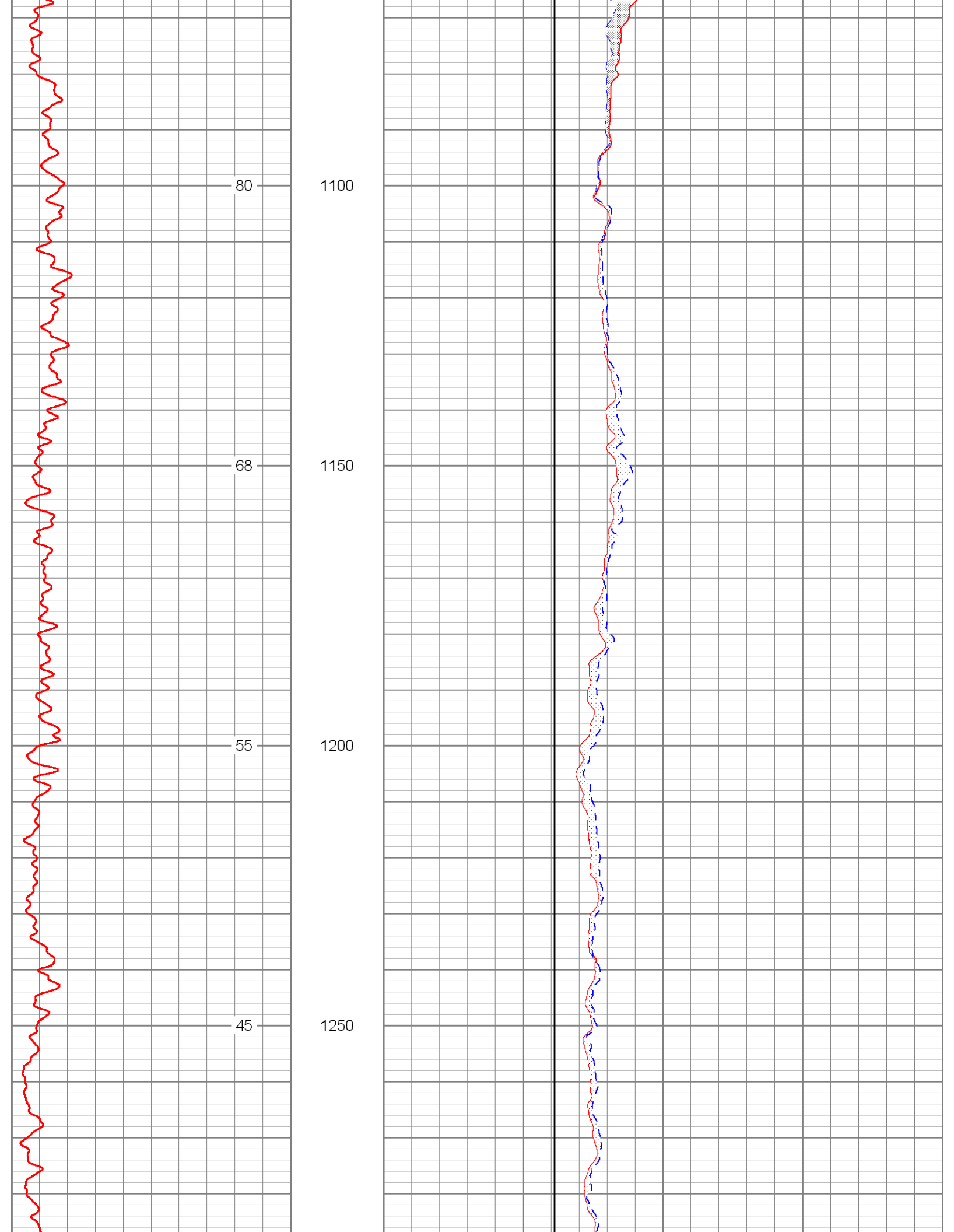


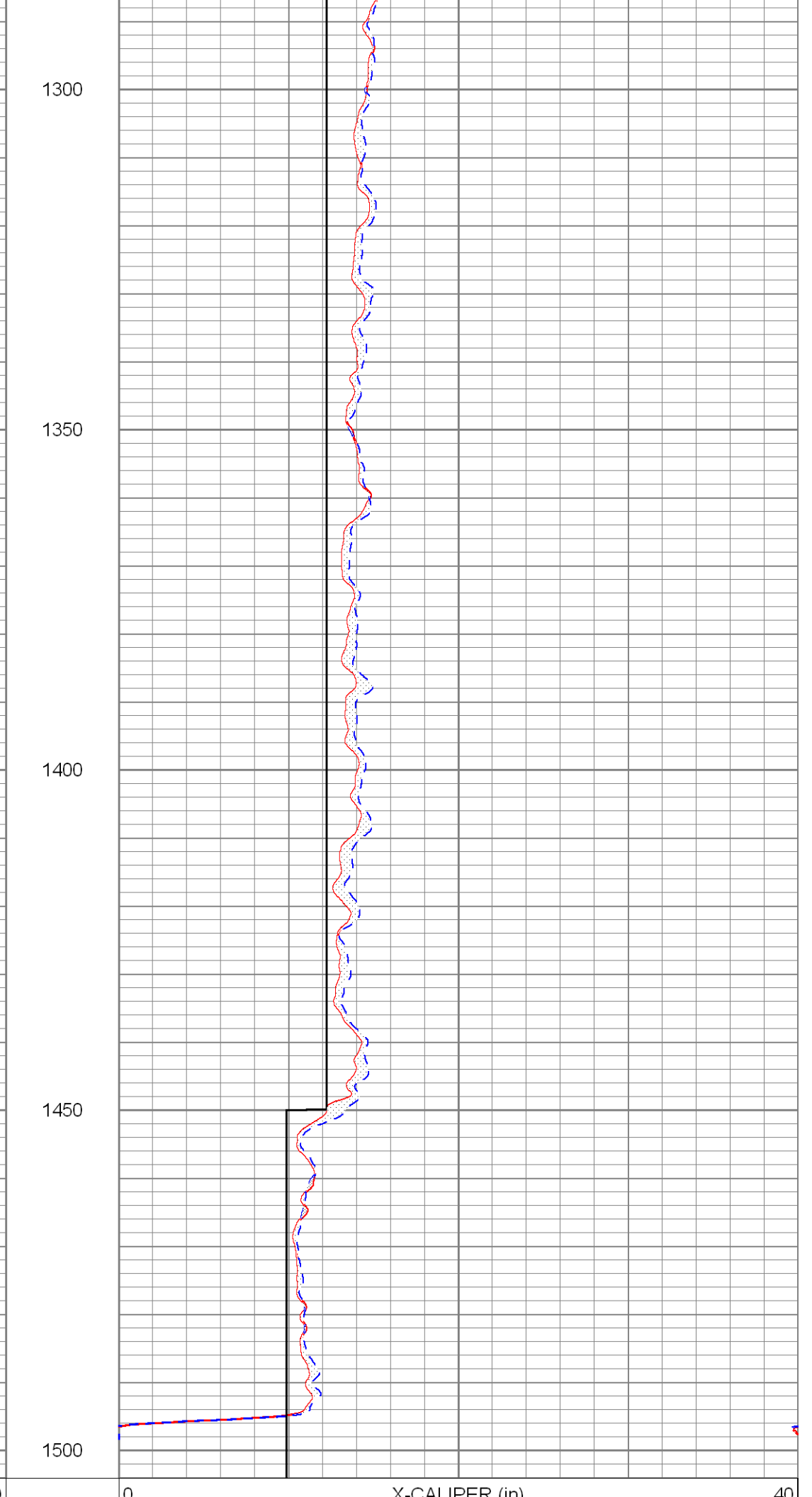
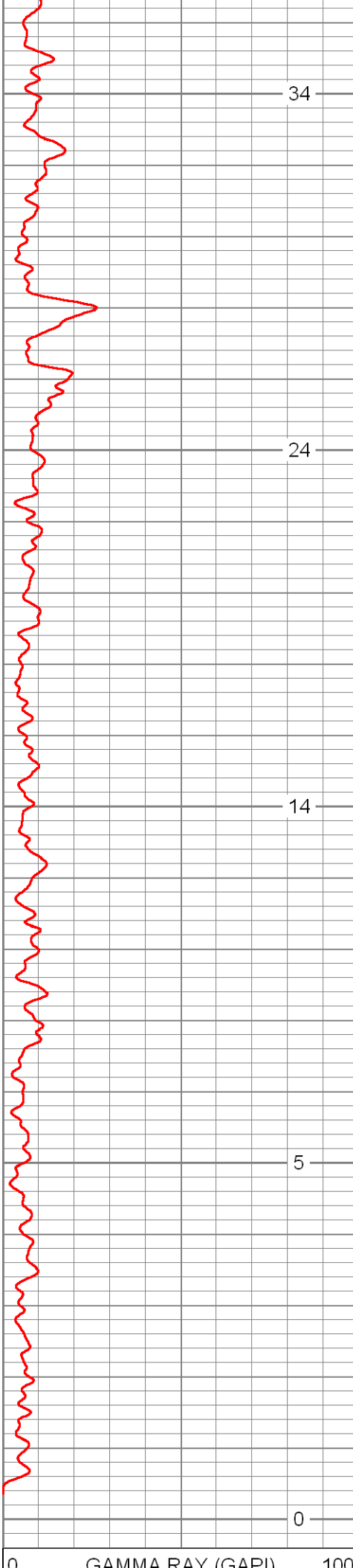



MAIN PASS

Database File: biscmw1.db
 Dataset Pathname: run6/pass3.5
 Presentation Format: grxyc
 Dataset Creation: Thu Aug 30 01:46:05 2012 by Calc SOC 110722
 Charted by: Depth in Feet scaled 1:240







GAMMA RAY (GAPI)	100
TBHV (bbl)	

0	X-CALIPER (in)	40
0	Y-CALIPER (in)	40
0	BIT SIZE (in)	40

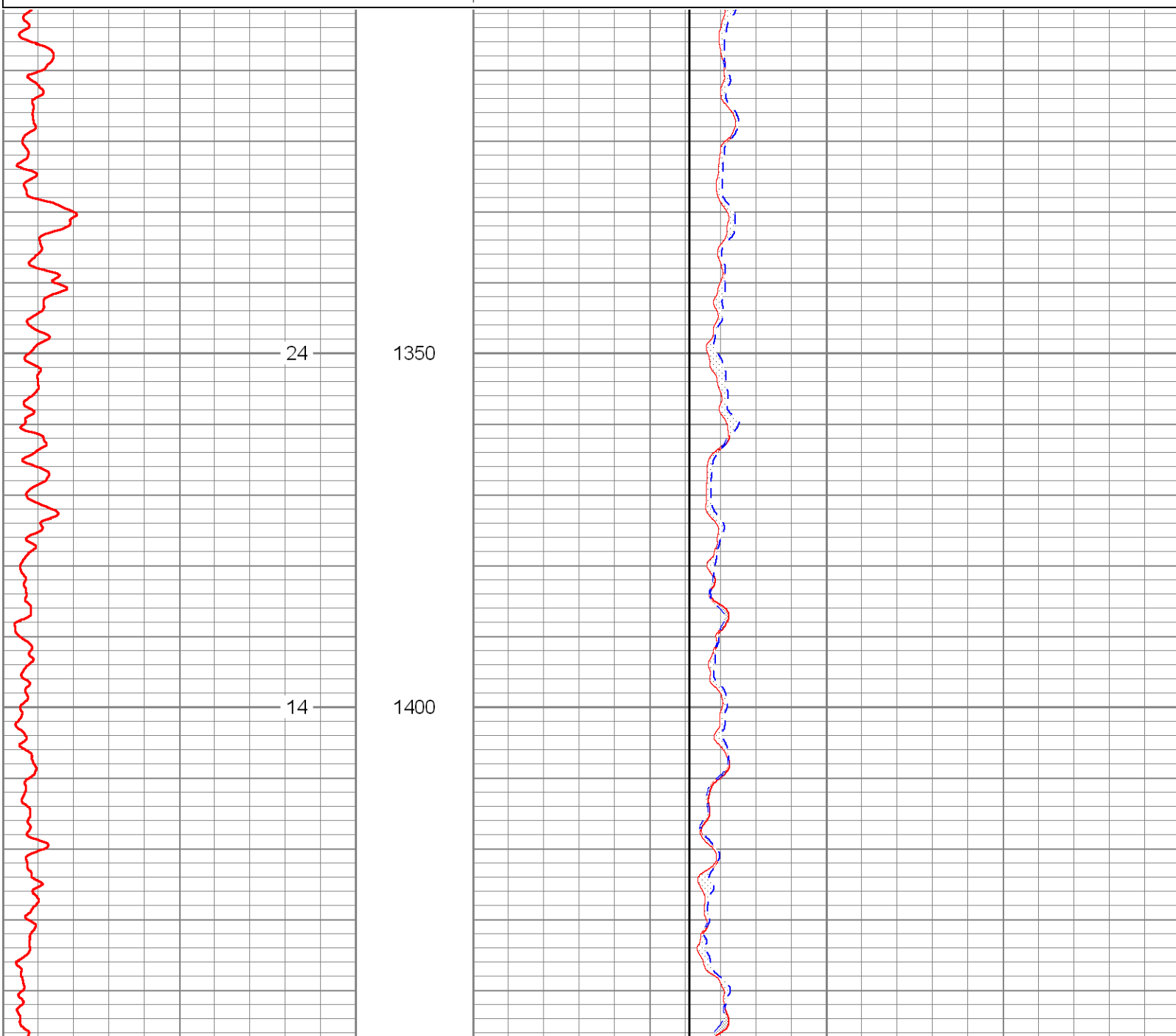


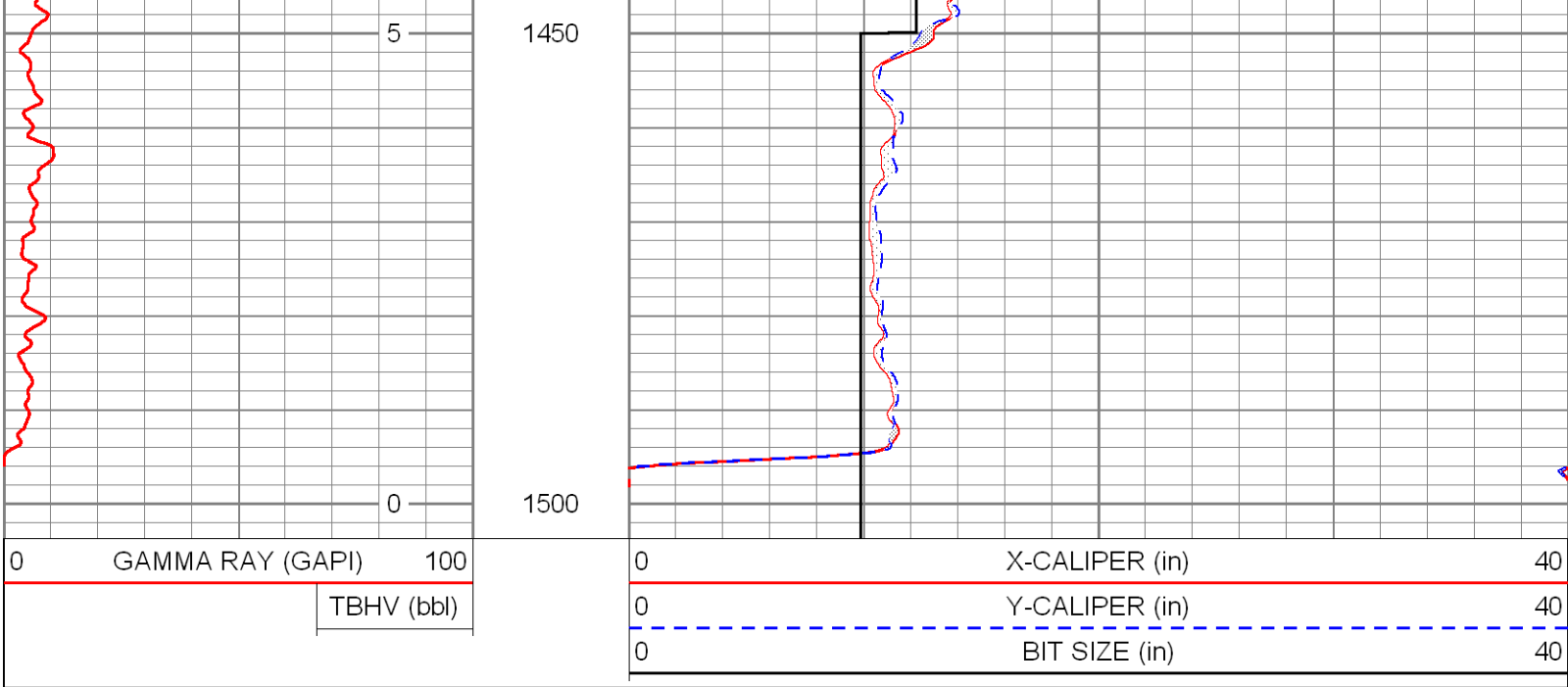
REPEAT PASS

Database File: biscmw1.db
 Dataset Pathname: run6/pass2.1
 Presentation Format: grxyc
 Dataset Creation: Thu Aug 30 01:53:37 2012 by Calc SOC 110722
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	100
	TBHV (bbl)	

0	X-CALIPER (in)	40
0	Y-CALIPER (in)	40
0	BIT SIZE (in)	40





Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
GR	9.60		GR-GROH (13)	2.75	3.50	40.00
XCAL YCAL	5.50 5.50		XYC-XYCSM (06SM)	6.60	3.50	87.00

Dataset: biscmw1.db: field/well/run6/pass2
 Total Length: 9.35 ft
 Total Weight: 127.00 lb
 O.D. 3.50 in

Calibration Report

Database File: biscmw1.db
 Dataset Pathname: run6/pass2
 Dataset Creation: Wed Aug 29 23:59:01 2012 by Log SOC 110722

XY Caliper Calibration Report

Serial Number/Model: 06SM-XYCSM
 Performed: Wed Aug 29 23:26:08 2012

	Ring		X Caliper		Y Caliper	
	-----		-----		-----	
1:	10	in	338.261	cps	330.217	cps
2:	20	in	462.595	cps	445.838	cps
3:	30	in	599.783	cps	580.543	cps
4:	40	in	753.804	cps	725.109	cps
5:		in		cps		cps
6:		in		cps		cps

Gamma Ray Calibration Report

Serial Number: 13
 Tool Model: GROH
 Performed: Tue May 08 13:24:57 2012

 Calibrator Value: 90.0 GAPI

 Background Reading: 30.4 cps
 Calibrator Reading: 103.6 cps

 Sensitivity: 1.2303 GAPI/cps



DUAL INDUCTION
LL3 WITH SP
LOG

Company CH2M HILL
Well MW-1
Field BISCAYNE LANDING, NORTH MIAMI
County DADE
State FLORIDA

Company CH2M HILL
Well MW-1
Field BISCAYNE LANDING, NORTH MIAMI
County DADE State FLORIDA

Location: API # :
SEC TWP RGE
Permanent Datum PAD PAD Elevation PAD
Log Measured From PAD PAD
Drilling Measured From PAD PAD
Elevation
K.B.
D.F.
G.L.

Date	30-AUG-2012			
Run Number	SIX			
Depth Driller	1500'			
Depth Logger	1500'			
Bottom Logged Interval	1500'			
Top Log Interval	CASING			
Open Hole Size	18.5"12.25"9.875"			
Type Fluid	MUD			
Density / Viscosity	NA			
Max. Recorded Temp.	NA			
Estimated Cement Top	NA			
Time Well Ready	0300			
Time Logger on Bottom	0320			
Equipment Number	104			
Location	FT MYERS			
Recorded By	GARCIA			
Witnessed By	C. IVERY			
Borehole Record		Borehole Record		
Run Number	Bit	From	To	Run No
ONE	12.25"	SURFACE	375'	FIVE
TWO	40.5"	CASING	348'	SIX
THREE	12.25"	CASING	1050'	SEVEN
FOUR	28.5"	CASING	954'	
Casing Record	Size	Wgt/Ft	Top	
Surface String	42"	.375" W.T.	SURFACE	
Prot. String	30"	.375" W.T.	SURFACE	
Production String	20"	.375" W.T.	SURFACE	
Liner			Bottom	
			60'	
			345'	
			950'	

<<< 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

FLUID RESISTIVITY TEMPERATURE
XY CALIPER/GAMMA RAY
BOREHOLE COMPENSATED SONIC
FLOWMETER
BOREHOLE TELEVIEWER

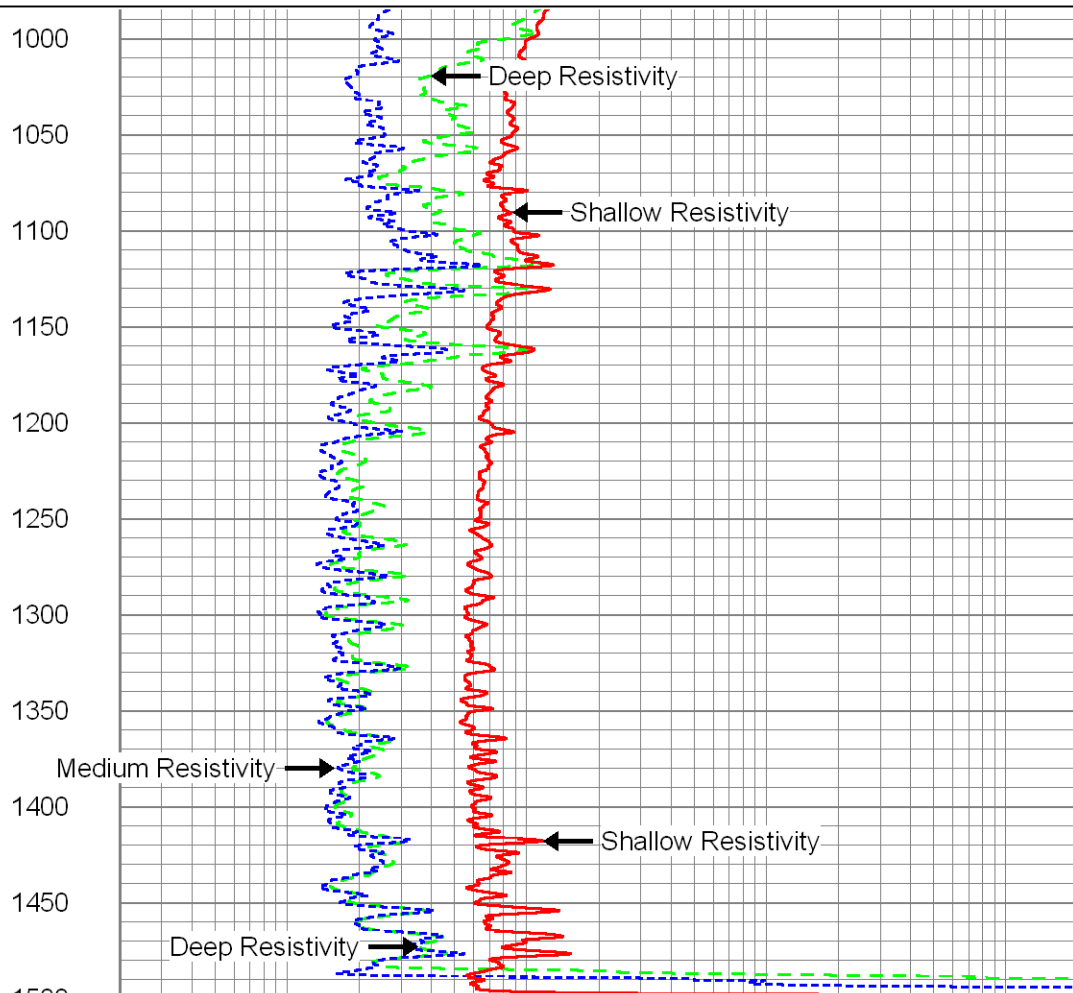
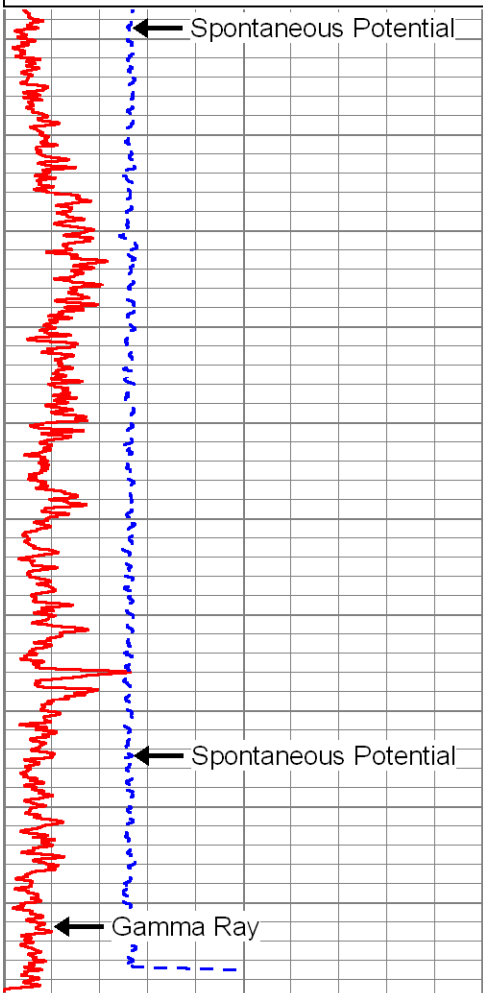


MIAN PASS

Database File: biscmw1.db
 Dataset Pathname: run6/pass5
 Presentation Format: dil
 Dataset Creation: Thu Aug 30 01:17:03 2012 by Log SOC 110722
 Charted by: Depth in Feet scaled 1:1200

0	GAMMA RAY (GAPI)	100
-100	Spontaneous Potential (mV)	100

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000



0	GAMMA RAY (GAPI)	100
-100	Spontaneous Potential (mV)	100

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000

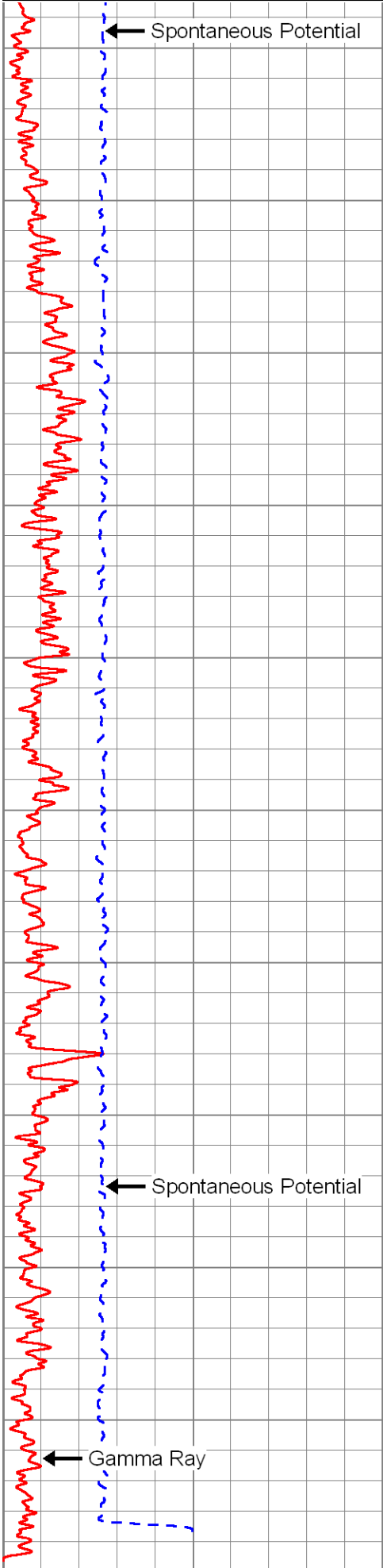


MIAN PASS

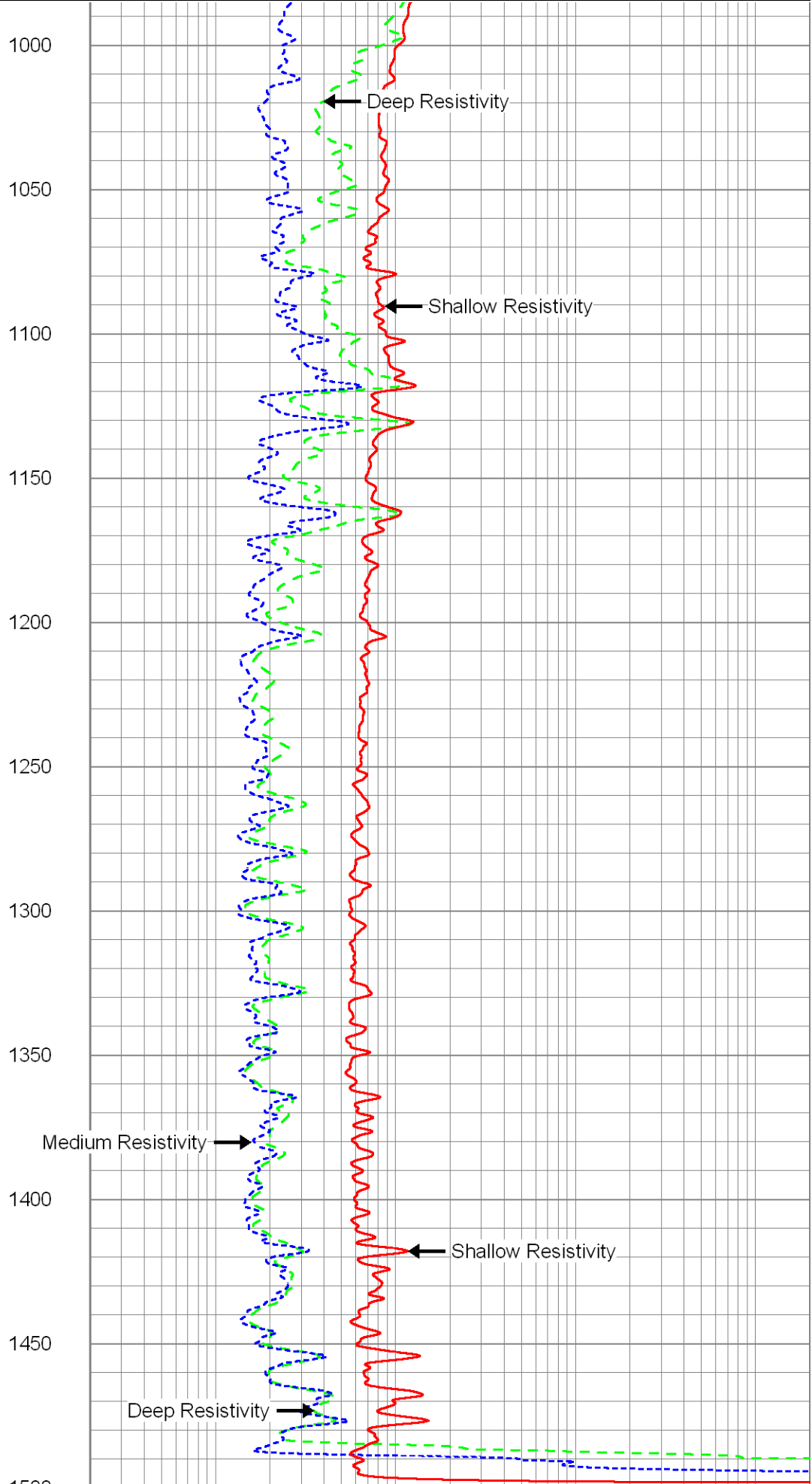
Database File: biscmw1.db
 Dataset Pathname: run6/pass5
 Presentation Format: dil
 Dataset Creation: Thu Aug 30 01:17:03 2012 by Log SOC 110722
 Charted by: Depth in Feet scaled 1:600

0	GAMMA RAY (GAPI)	100
-100	Spontaneous Potential (mV)	100

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000



0	GAMMA RAY (GAPI)	100
-100	Spontaneous Potential (mV)	100



0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000

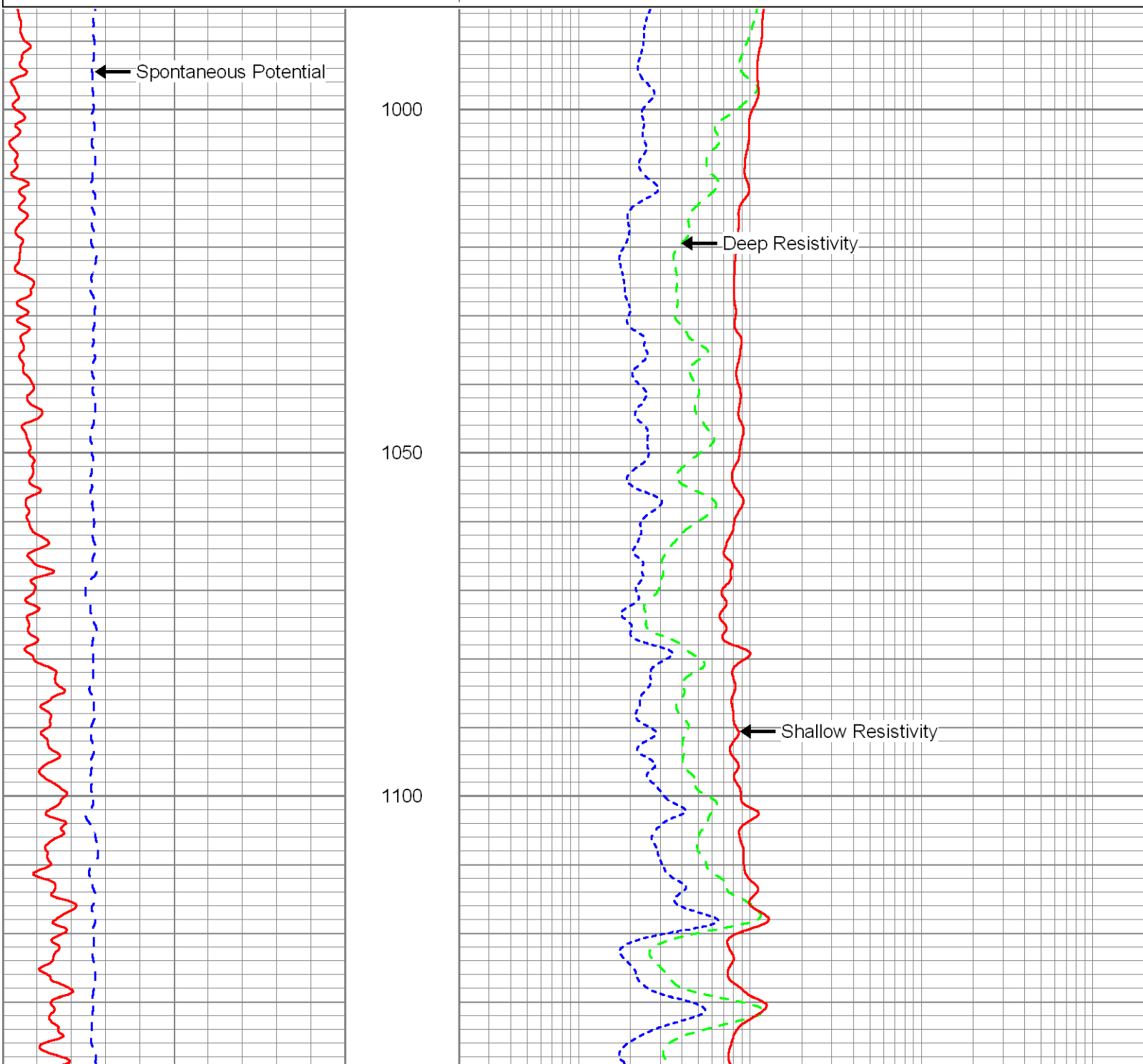


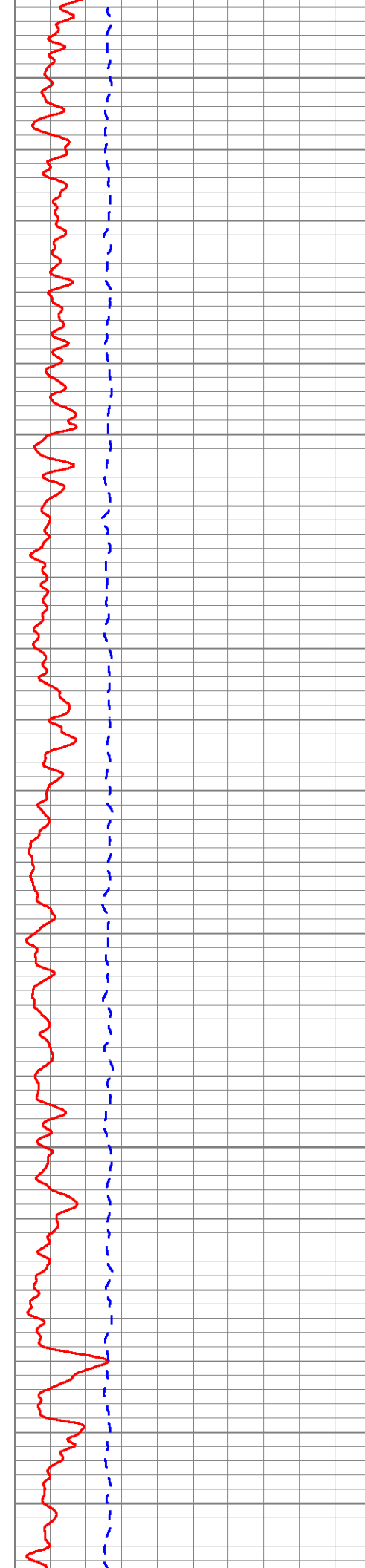
MIAN PASS

Database File: biscmw1.db
 Dataset Pathname: run6/pass5
 Presentation Format: dil
 Dataset Creation: Thu Aug 30 01:17:03 2012 by Log SOC 110722
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	100
-100	Spontaneous Potential (mV)	100

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000





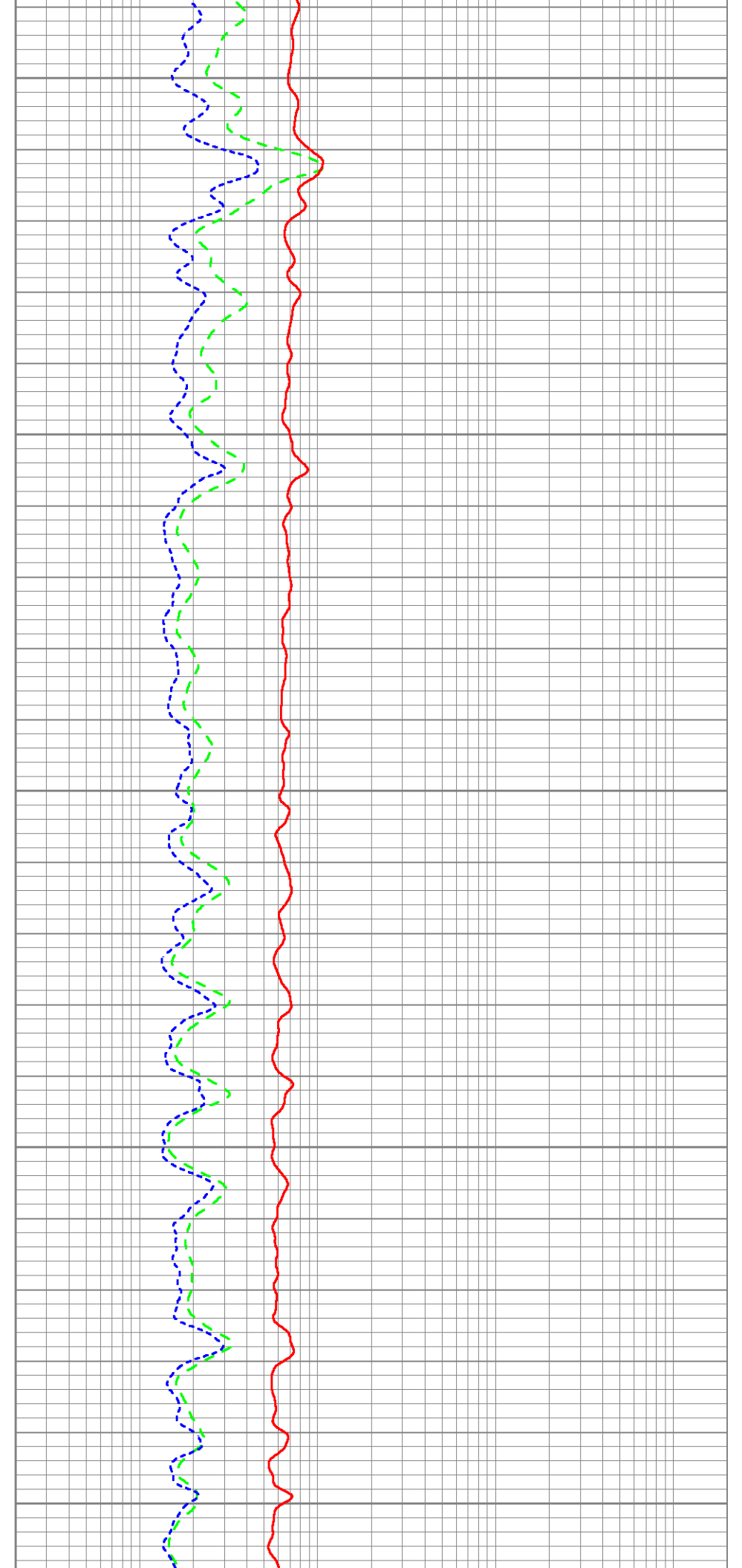
1150

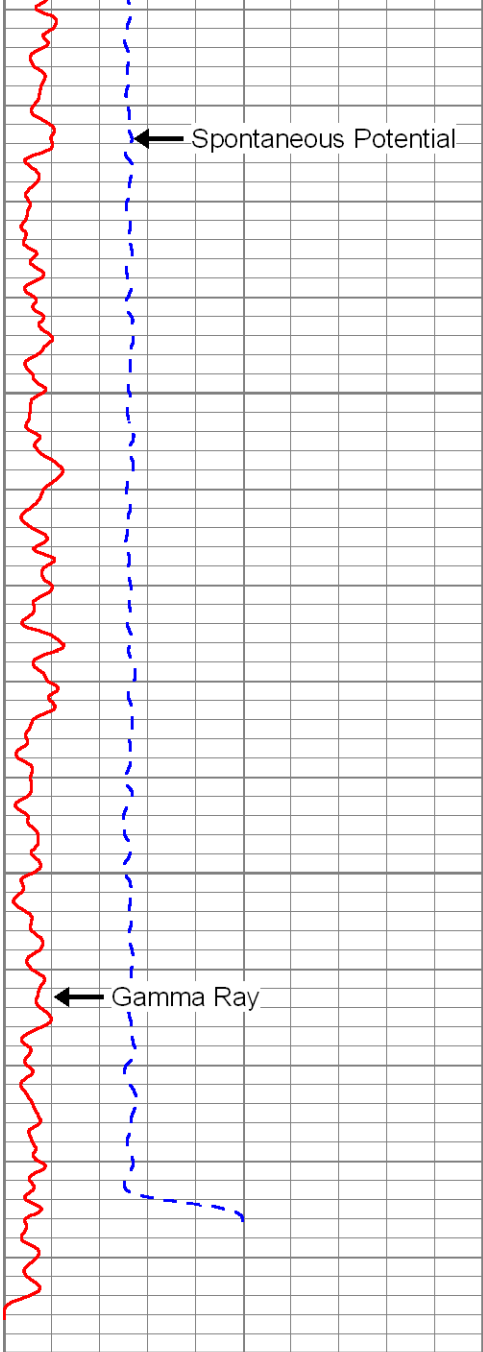
1200

1250

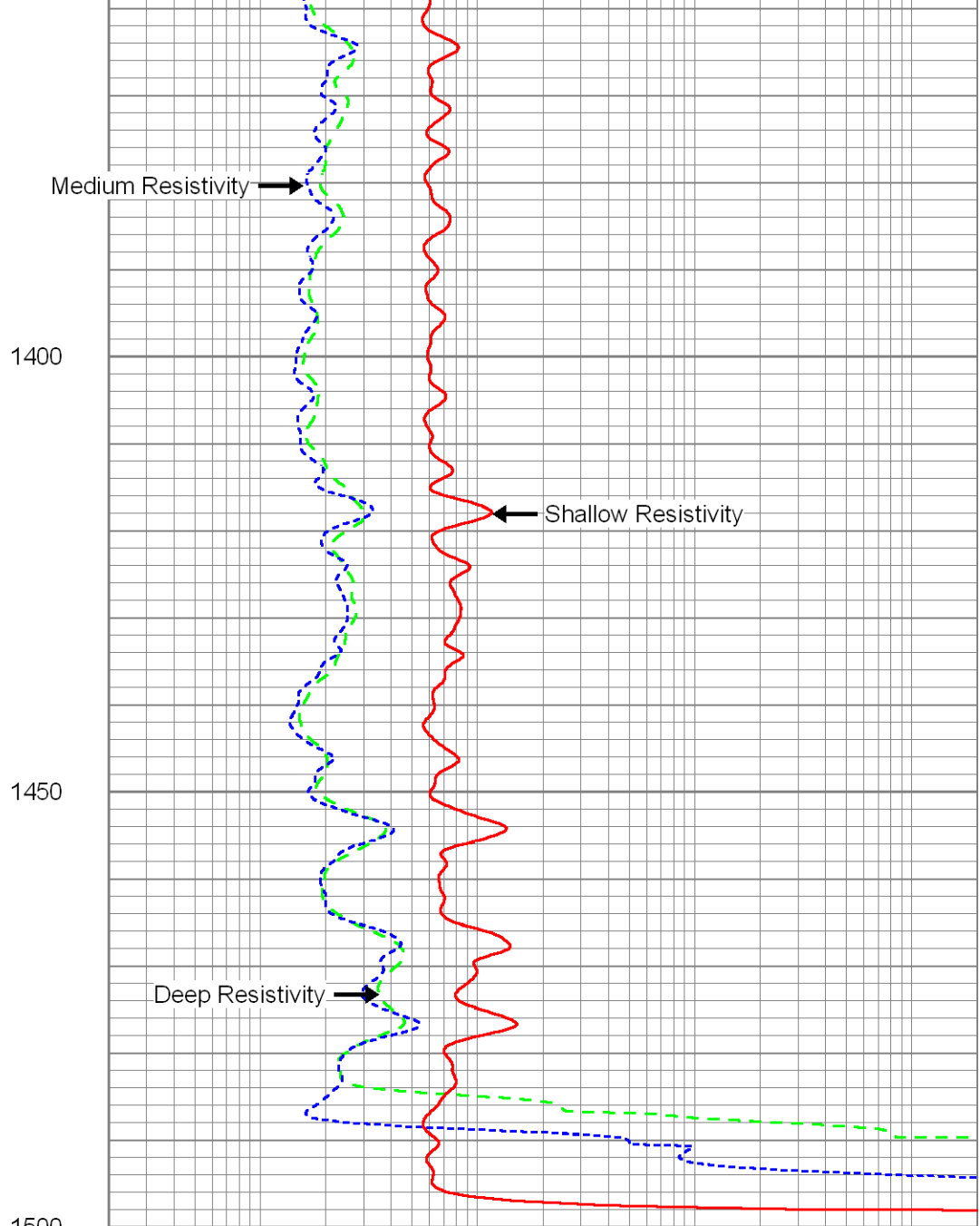
1300

1350





0	GAMMA RAY (GAPI)	100
-100	Spontaneous Potential (mV)	100



0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000

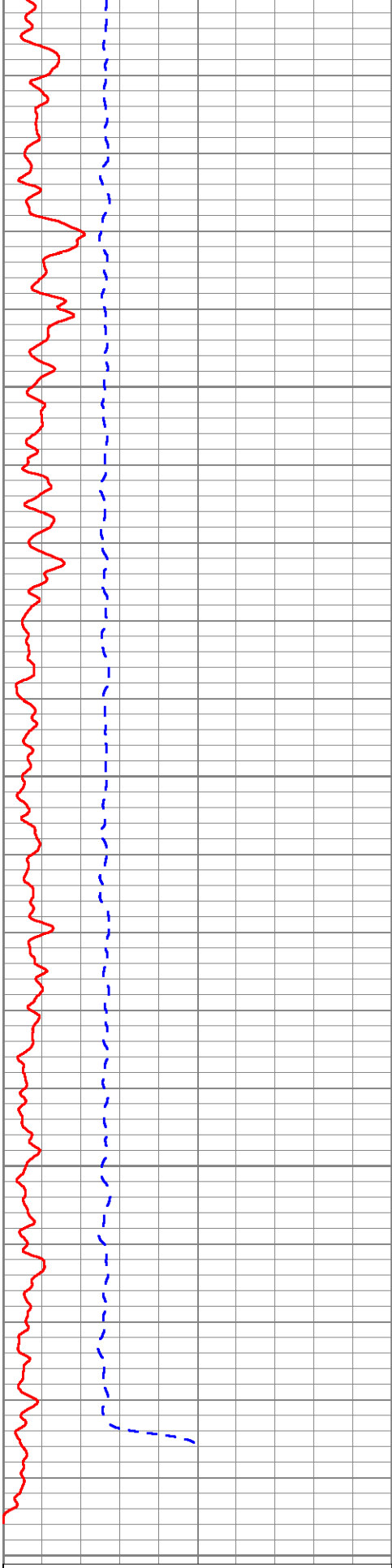


REPEAT PASS

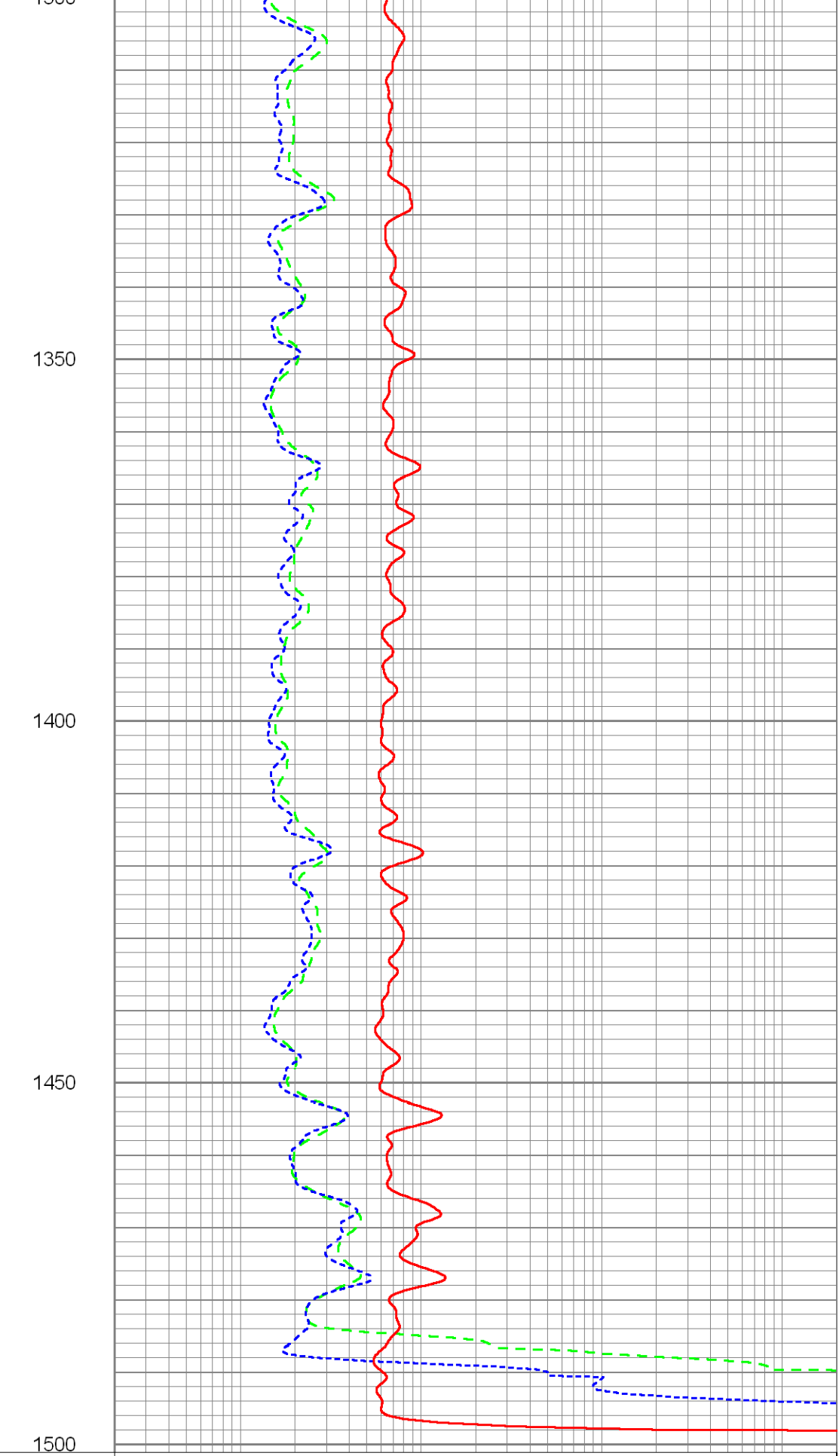
Database File: biscmw1.db
 Dataset Pathname: run6/pass4
 Presentation Format: dil
 Dataset Creation: Thu Aug 30 01:07:44 2012 by Log SOC 110722
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	100
-100	Spontaneous Potential (mV)	100

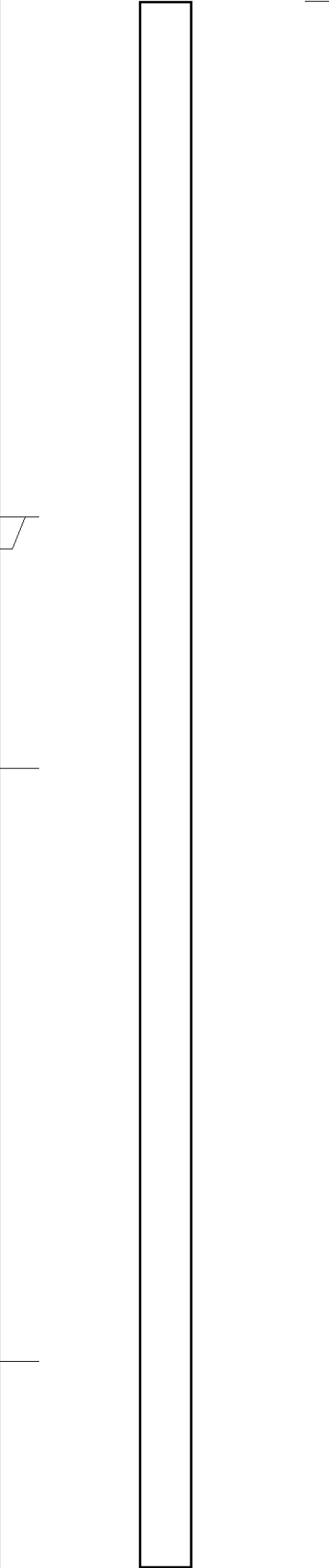
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000



0	Gamma Ray (GAPI)	100
-100	Spontaneous Potential (mV)	100



0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CILD SP	15.88 15.88					
CILM	12.08		DIL-C (1515)	23.67	3.50	175.00
CLL3	3.13					

Dataset: biscmw1.db: field/well/run6/pass4
 Total Length: 23.67 ft
 Total Weight: 175.00 lb
 O.D. 3.50 in

Calibration Report

Database File: biscmw1.db
 Dataset Pathname: run6/pass6
 Dataset Creation: Thu Aug 30 01:30:33 2012 by Log SOC 110722

Dual Induction Calibration Report

Serial-Model: 1515-C
 Surface Cal Performed: Wed Sep 21 15:53:11 2011
 Downhole Cal Performed: Thu Aug 30 00:52:48 2012
 After Survey Verification Performed: Thu Aug 30 01:30:27 2012

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	-0.019	0.646	V	0.000	400.000	mmho/m	601.358	11.580
Medium	-0.010	0.749	V	0.000	464.000	mmho/m	611.624	6.189
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.025	0.627	V	26.120	390.680	mmho/m	605.948	11.049
Medium	0.014	0.723	V	14.560	451.660	mmho/m	615.964	6.015

Downhole Calibration

Internal:	Readings			References			Results	
	Zero	Cal		Zero	Cal		m	b
Deep	18.378	394.421	mmho/m	26.120	390.680	mmho/m	0.969	8.304
Medium	10.863	456.482	mmho/m	14.560	451.660	mmho/m	0.981	3.904
Shallow	0.025	0.409		5.400	182.730	mmho/m	462.286	-6.346

After Survey Verification

Internal:	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	18.110	393.757	mmho/m	18.378	394.421	mmho/m	0.969	8.304
Medium	10.658	456.262	mmho/m	10.863	456.482	mmho/m	0.981	3.904
Shallow	9.350	184.736	mmho/m	5.400	182.730	mmho/m	1.011	-4.054



**BOREHOLE
COMPENSATED
SONIC W/TDS**

Company CH2M HILL
Well MW-1
Field BISCAYNE LANDING, NORTH MIAMI
County DADE
State FLORIDA

Company CH2M HILL
Well MW-1
Field BISCAYNE LANDING, NORTH MIAMI
County DADE State FLORIDA

Location: API # :
SEC TWP RGE
Permanent Datum PAD
Log Measured From PAD
Drilling Measured From PAD
Elevation
K.B.
D.F.
G.L.

Date	30-AUG-2012			
Run Number	SIX			
Depth Driller	1500'			
Depth Logger	1500'			
Bottom Logged Interval	1500'			
Top Log Interval	CASING			
Open Hole Size	18.5"12.25"9.875"			
Type Fluid	MUD			
Density / Viscosity	NA			
Max. Recorded Temp.	NA			
Estimated Cement Top	NA			
Time Well Ready	0300			
Time Logger on Bottom	0320			
Equipment Number	104			
Location	FT MYERS			
Recorded By	GARCIA			
Witnessed By	C. IVERY			
Borehole Record		Borehole Record		
Run Number	Bit	From	To	Run No
ONE	12.25"	SURFACE	375'	FIVE
TWO	40.5"	CASING	348'	SIX
THREE	12.25"	CASING	1050'	SEVEN
FOUR	28.5"	CASING	954'	
Casing Record	Size	Wgt/Ft	Bottom	
Surface String	42"	.375" W.T.	SURFACE	
Prot. String	30"	.375" W.T.	SURFACE	
Production String	20"	.375" W.T.	SURFACE	
Liner			950'	

<<< 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

FLUID RESISTIVITY TEMPERATURE
XY CALIPER/GAMMA RAY
DUAL INDUCTION
FLOWMETER
BOREHOLE TELEVIEWER

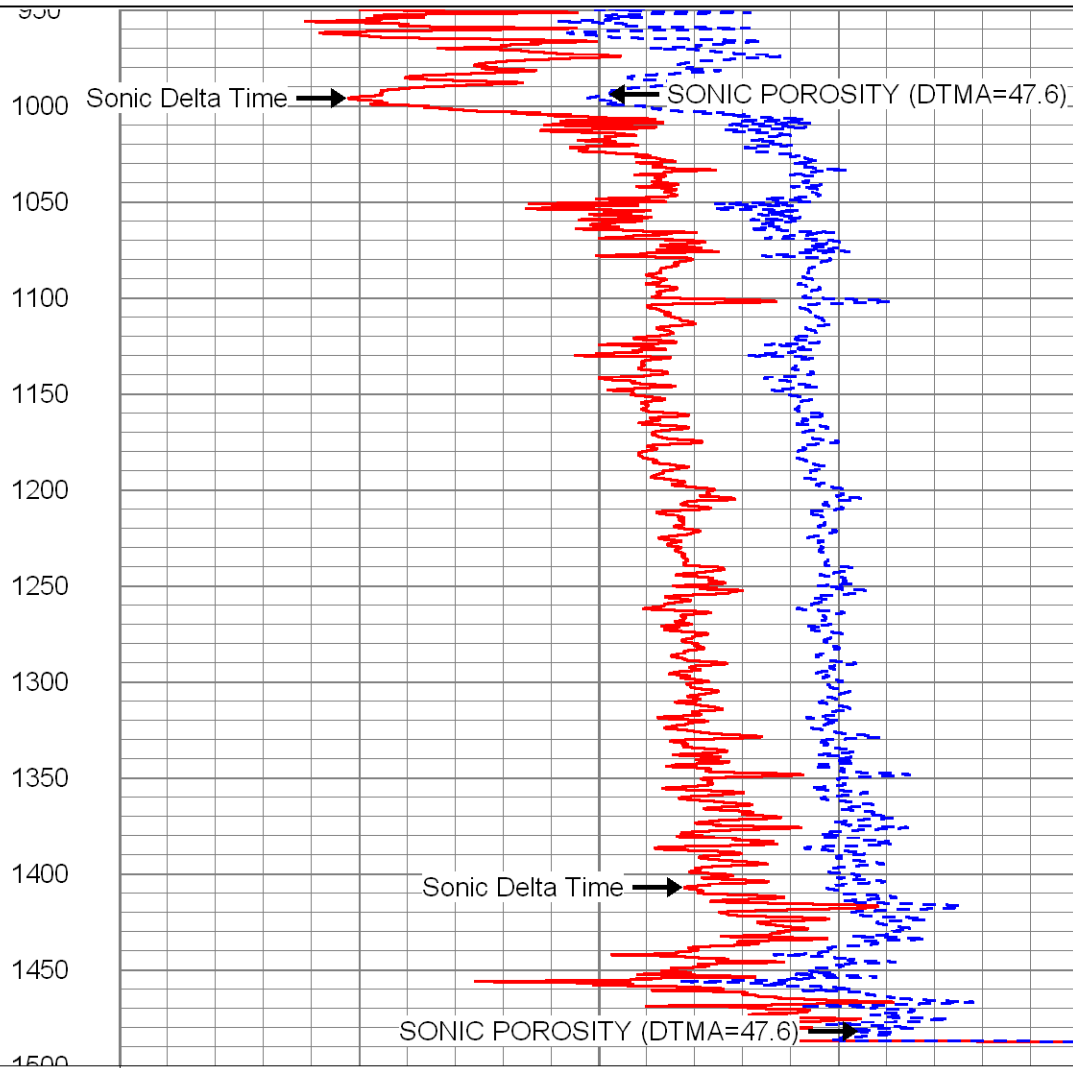
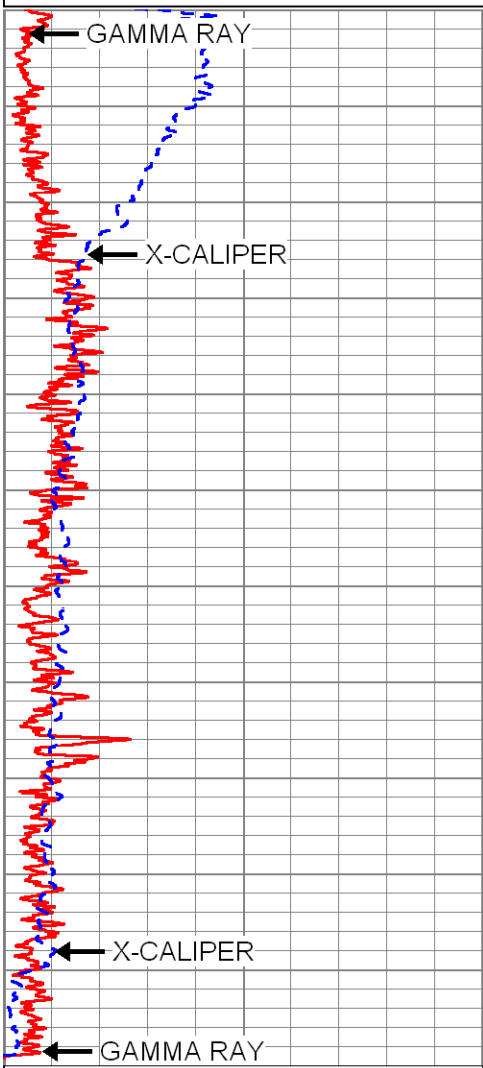


MAIN PASS

Database File: biscmw1.db
 Dataset Pathname: run6/pass9
 Presentation Format: son_por
 Dataset Creation: Thu Aug 30 02:19:59 2012 by Log SOC 110722
 Charted by: Depth in Feet scaled 1:1200

0	GAMMA RAY (GAPI)	100
10	X-CALIPER (in)	50

240	DT (usec/ft)	40
200	SONIC POROSITY (DTMA=47.6) (pu)	0



0	GAMMA RAY (GAPI)	100
10	X-CALIPER (in)	50

240	DT (usec/ft)	40
200	SONIC POROSITY (DTMA=47.6) (pu)	0

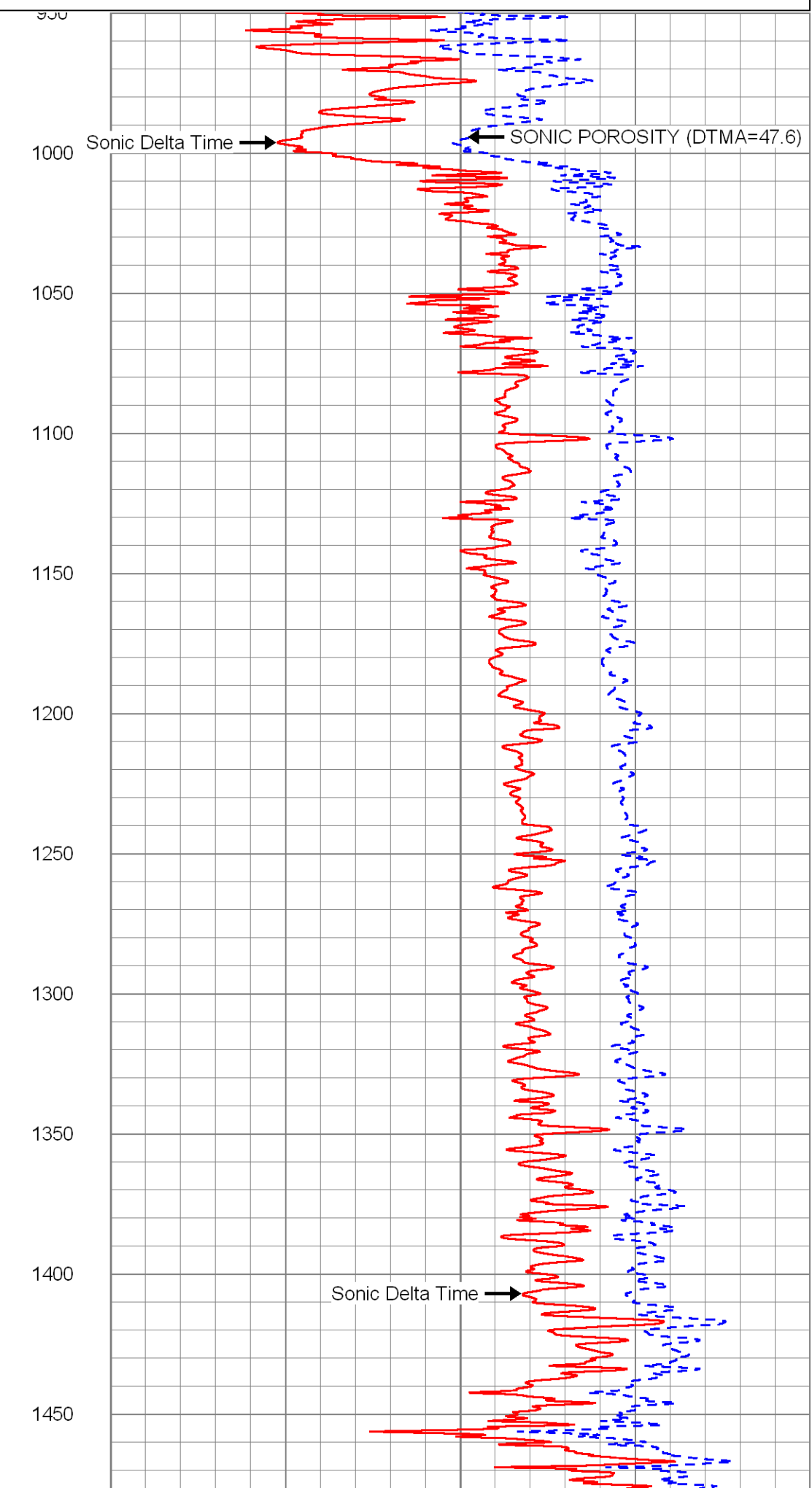
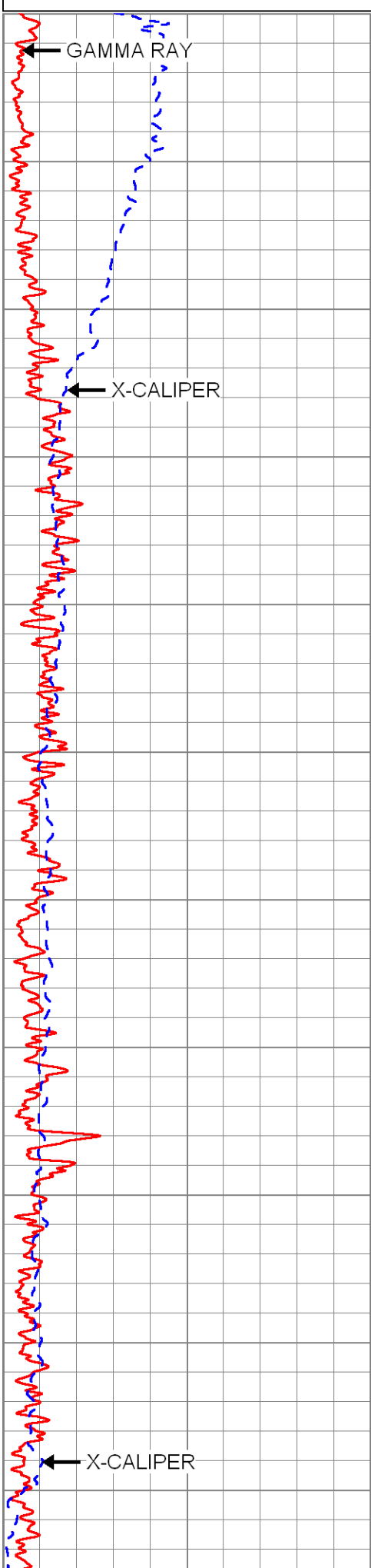


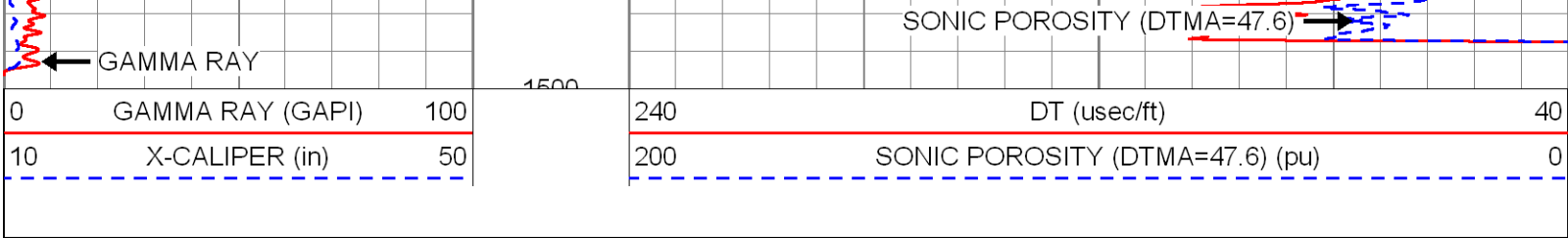
MAIN PASS

Database File: biscmw1.db
 Dataset Pathname: run6/pass9
 Presentation Format: son_por
 Dataset Creation: Thu Aug 30 02:19:59 2012 by Log SOC 110722
 Charted by: Depth in Feet scaled 1:600

0	GAMMA RAY (GAPI)	100
10	X-CALIPER (in)	50

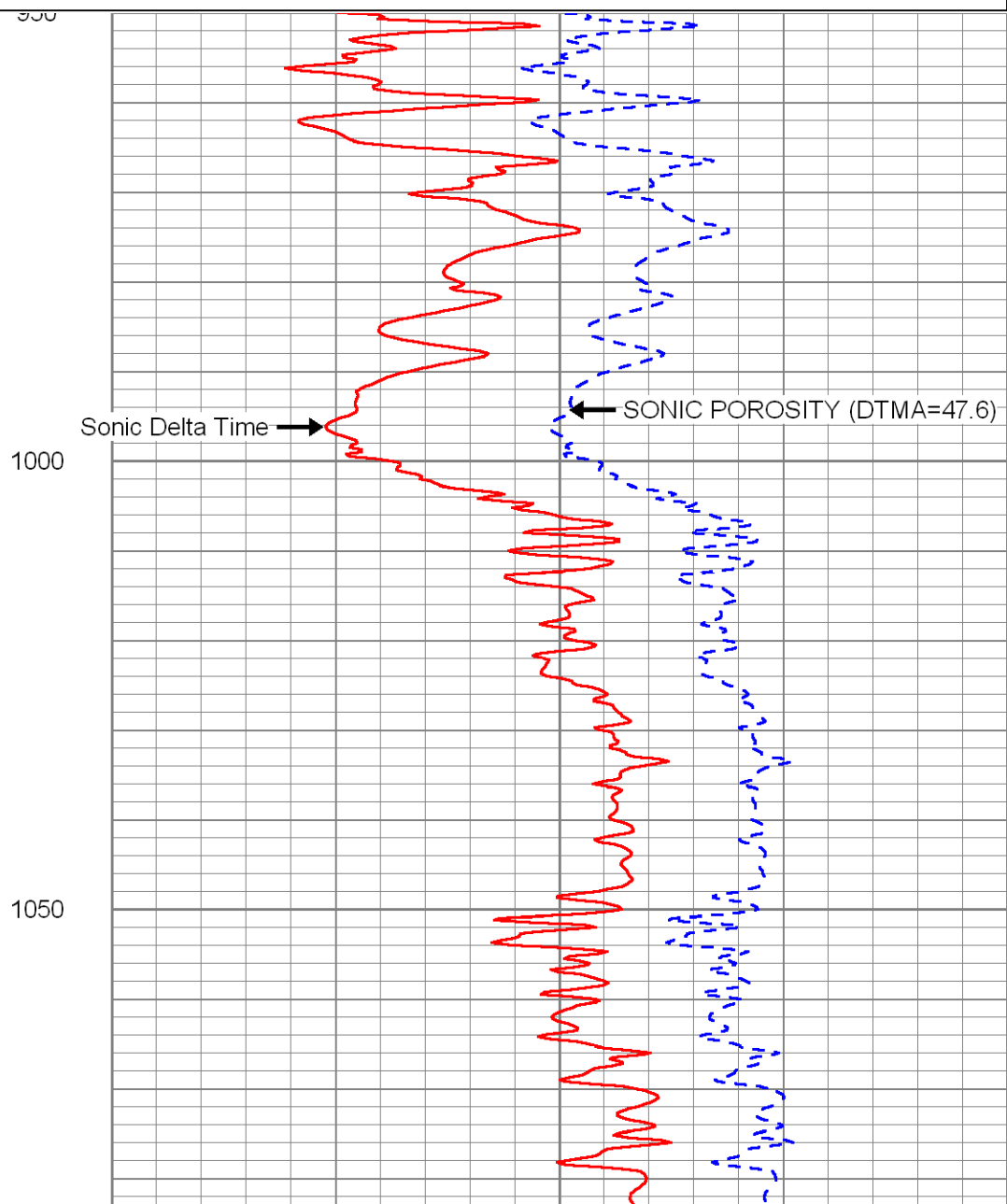
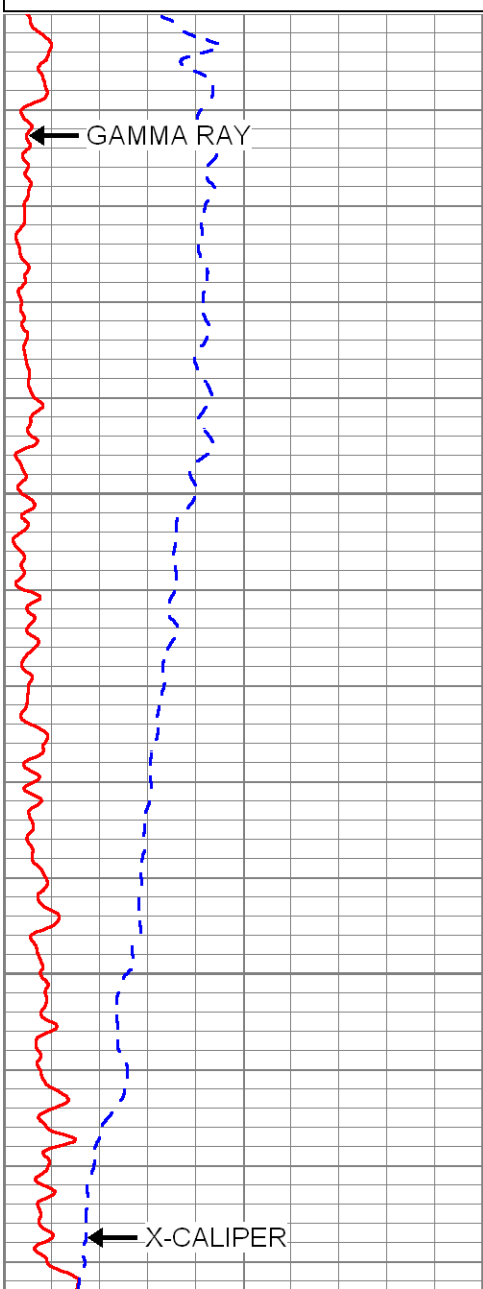
240	DT (usec/ft)	40
200	SONIC POROSITY (DTMA=47.6) (pu)	0

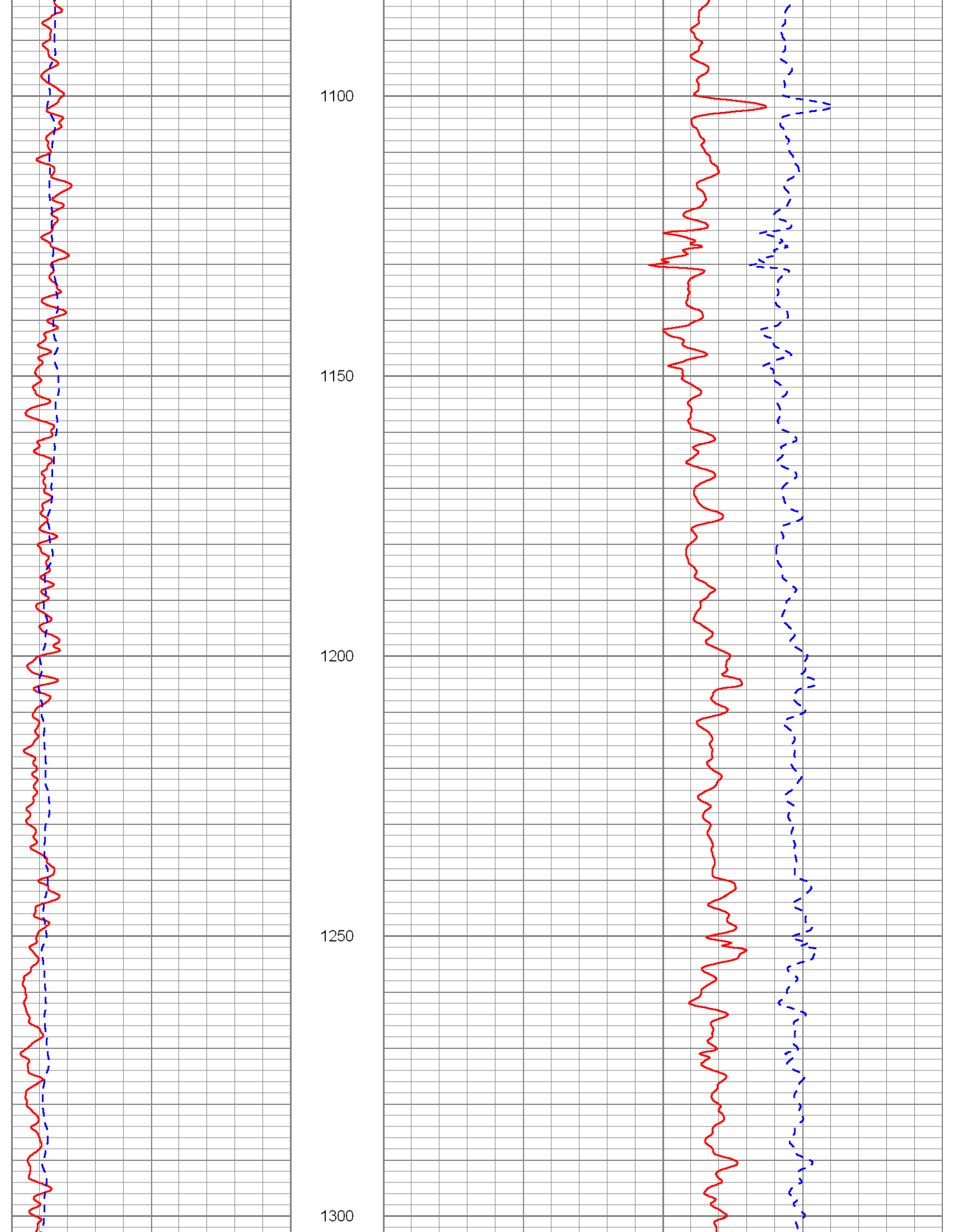


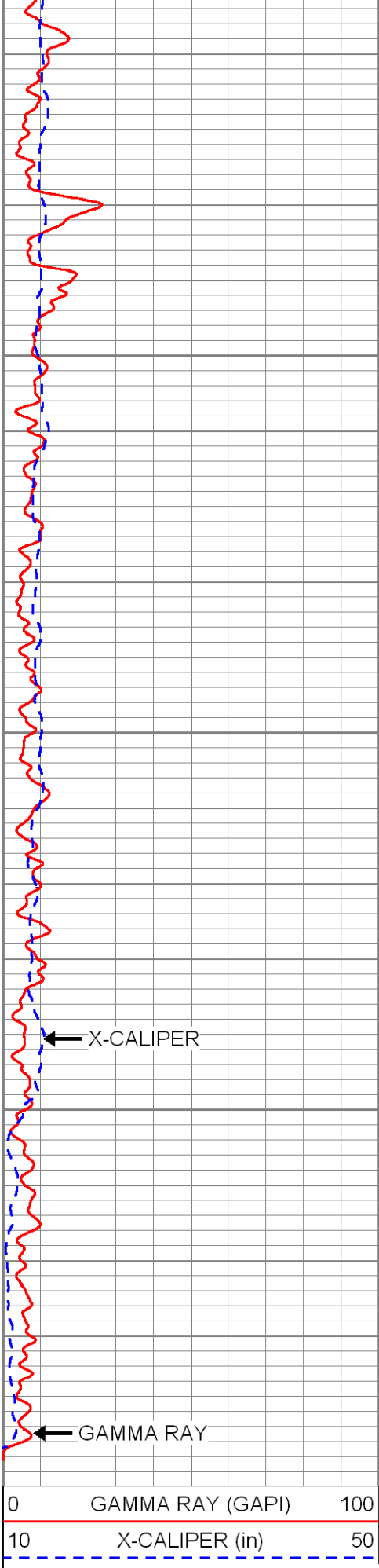


MAIN PASS

Database File: biscmw1.db
 Dataset Pathname: run6/pass9
 Presentation Format: son_por
 Dataset Creation: Thu Aug 30 02:19:59 2012 by Log SOC 110722
 Charted by: Depth in Feet scaled 1:240





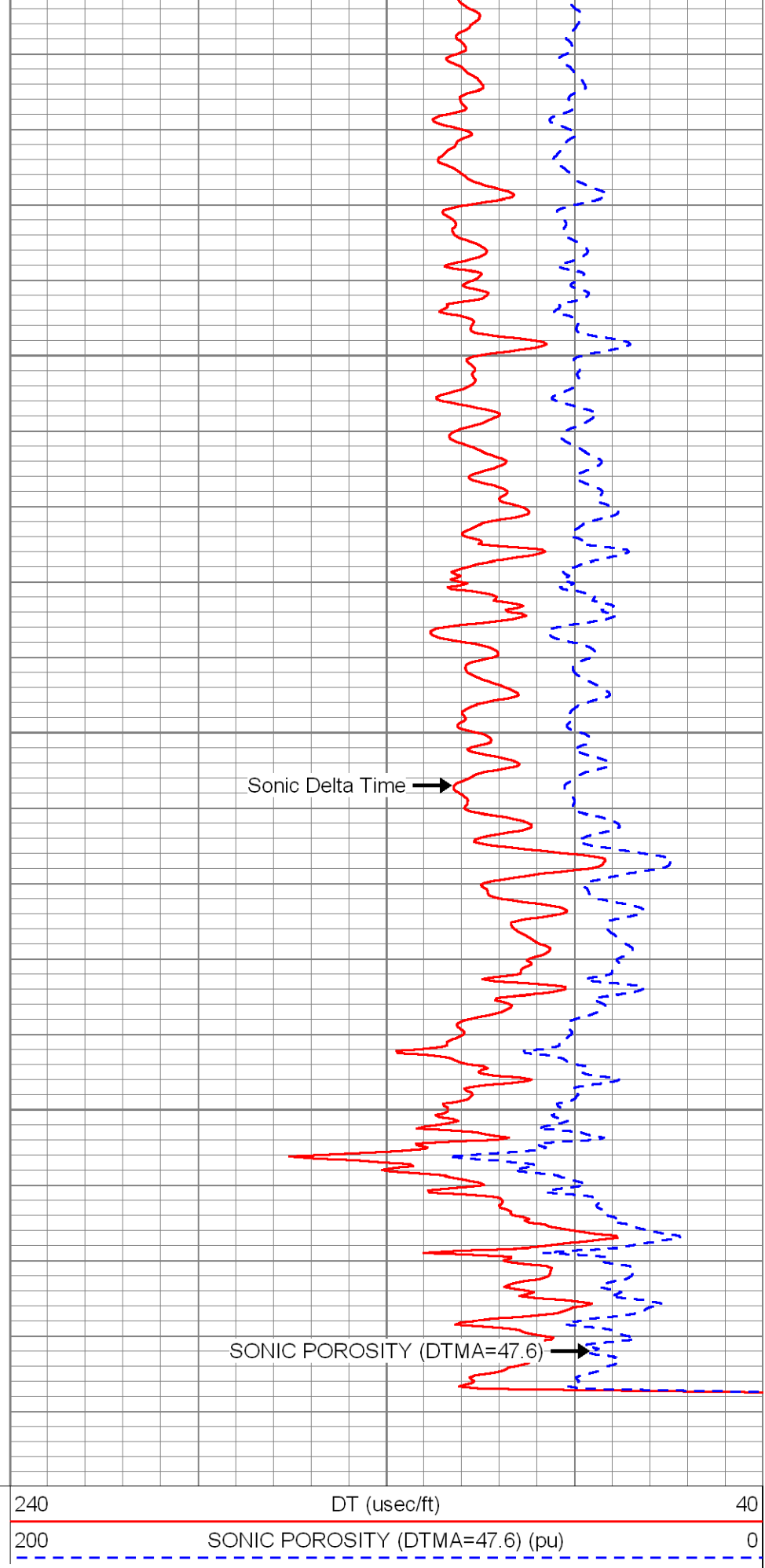


1350

1400

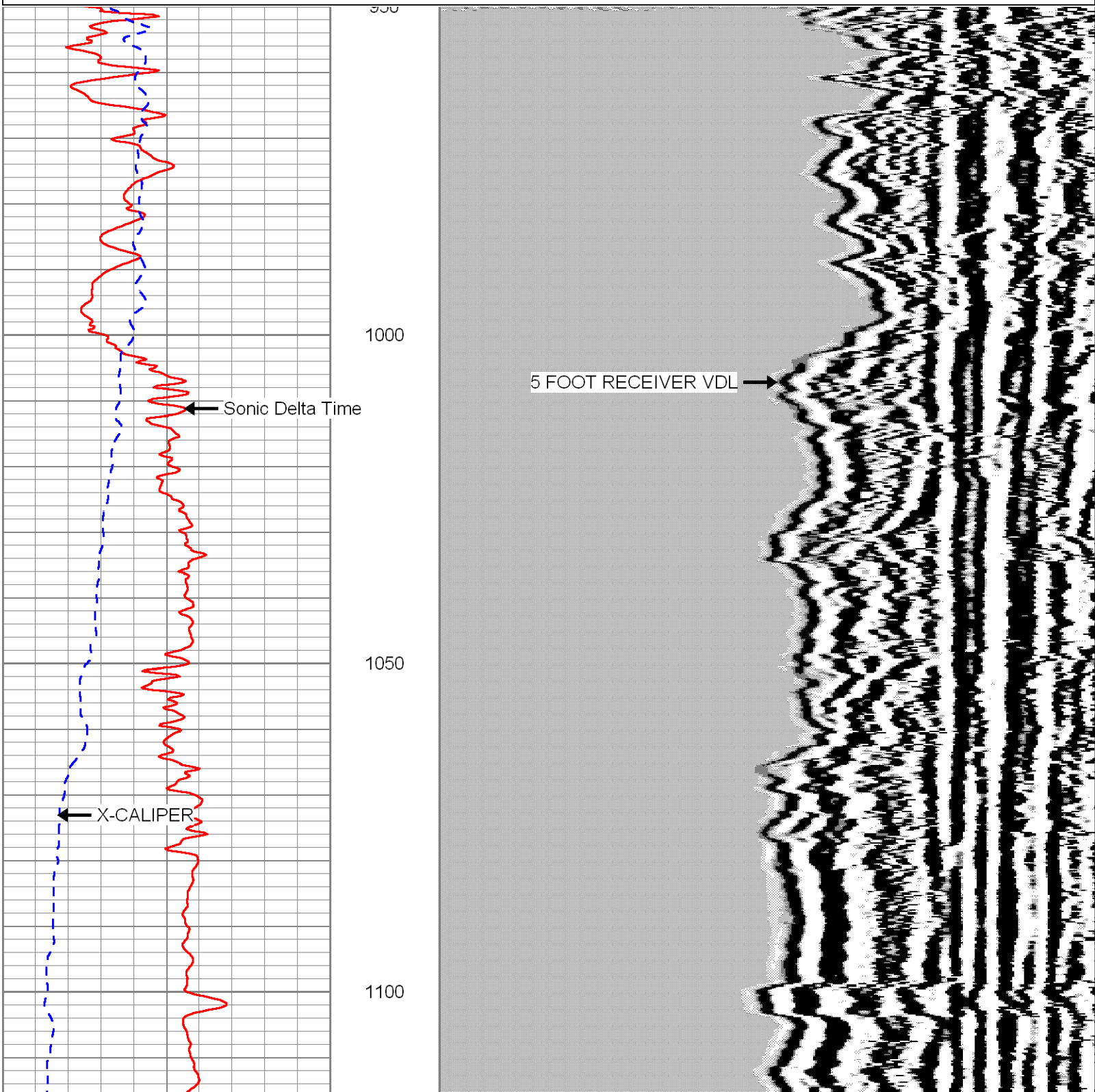
1450

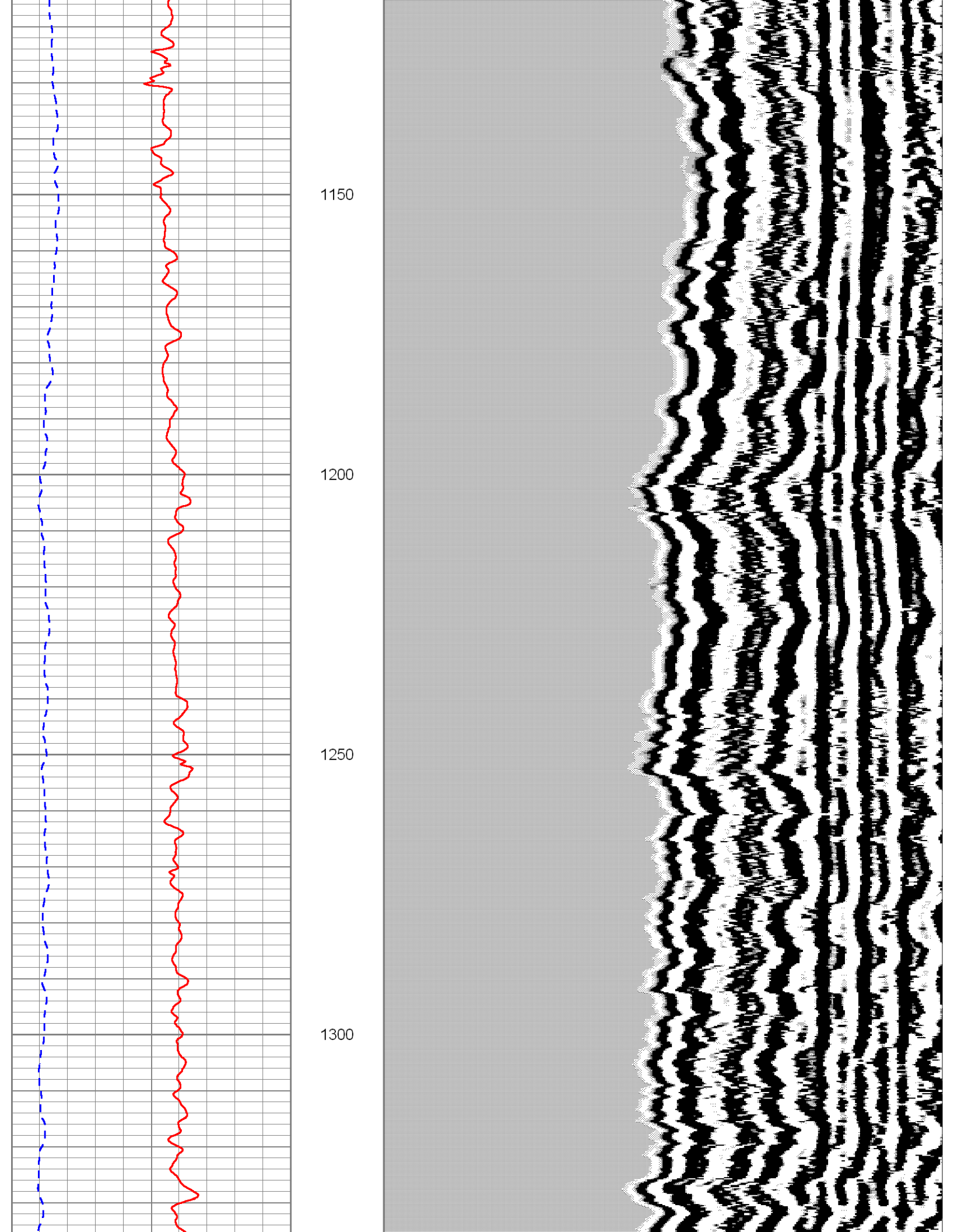
1500

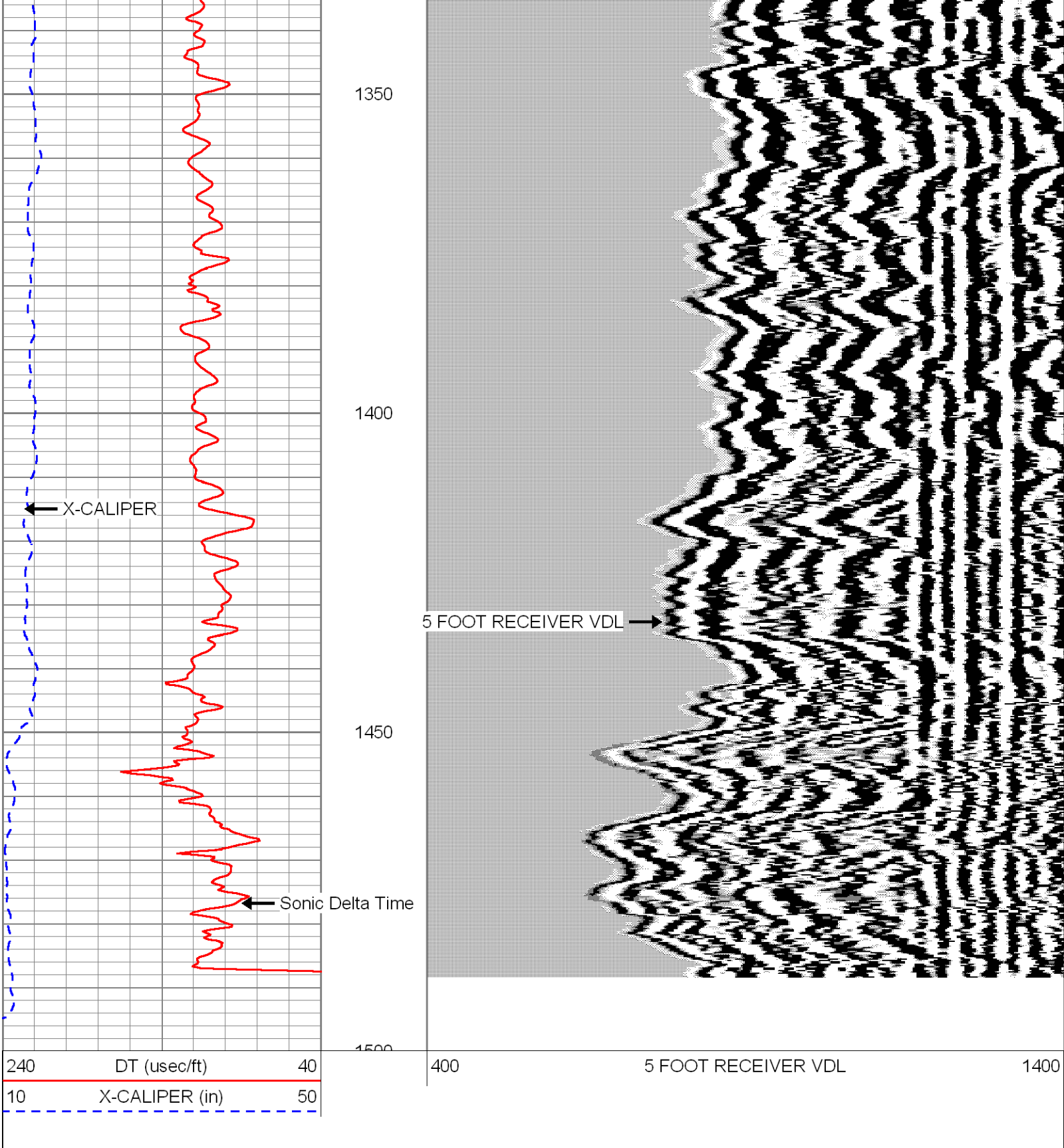


Database File: biscmw1.db
 Dataset Pathname: run6/pass9
 Presentation Format: son_vdl
 Dataset Creation: Thu Aug 30 02:19:59 2012 by Log SOC 110722
 Charted by: Depth in Feet scaled 1:240

240	DT (usec/ft)	40	400	5 FOOT RECEIVER VDL	1400
10	X-CALIPER (in)	50			







REPEAT PASS

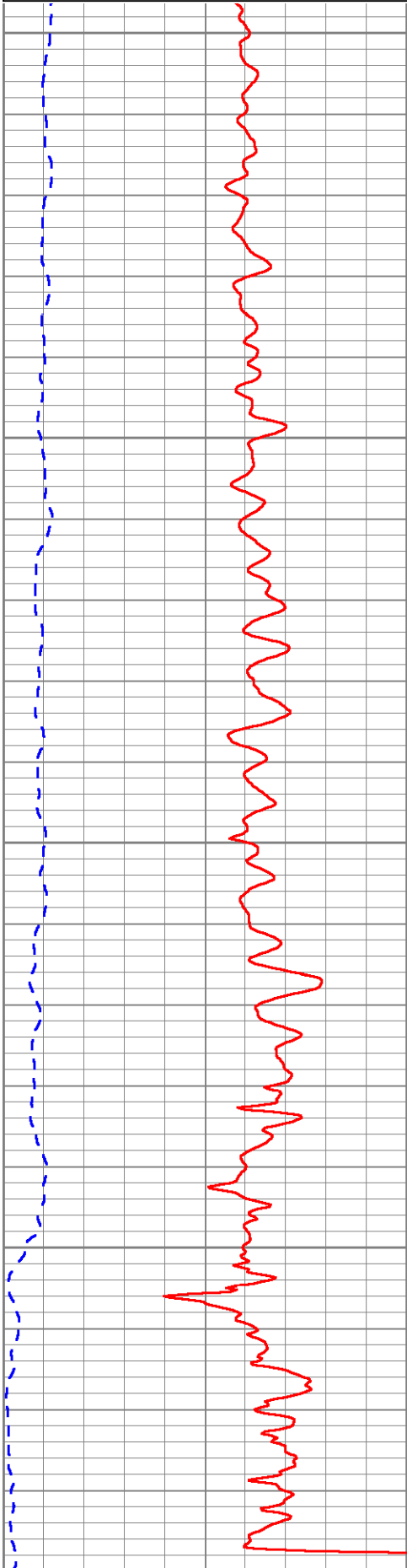
Database File: biscmw1.db
 Dataset Pathname: run6/pass8
 Presentation Format: son_vdl
 Dataset Creation: Thu Aug 30 02:10:42 2012 by Log SOC 110722

240	DT (usec/ft)	40
10	X-CALIPER (in)	50

400

5 FOOT RECEIVER VDL

1400

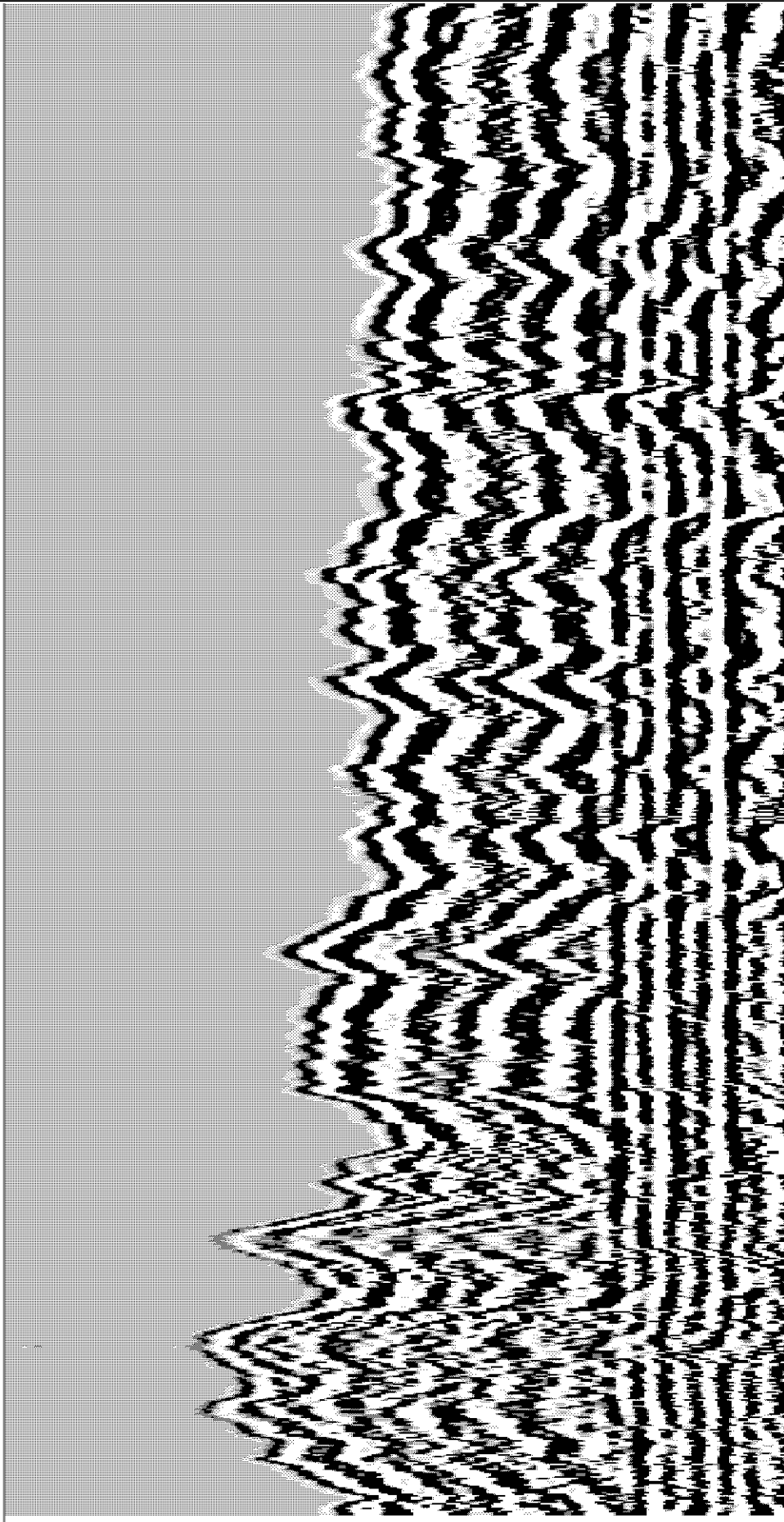


1300

1350

1400

1450



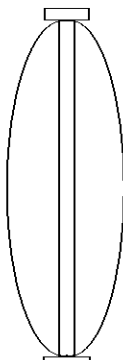
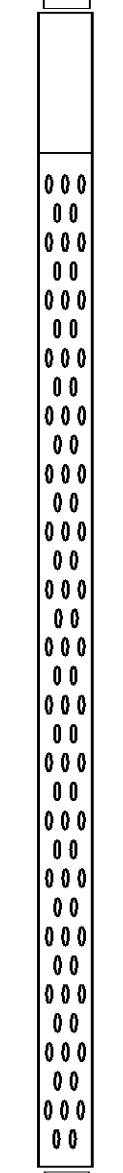
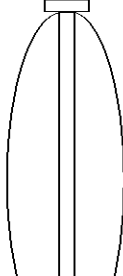
240	DT (usec/ft)	40
10	X-CALIPER (in)	50

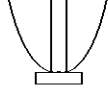
1500

400

5 FOOT RECEIVER VDL

1400

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			TOP	5.00	3.00	50.00
WVF1 WVF3	13.50 13.50		SLT-PENGO (03)	16.00	3.50	127.00
WVF2 WVF4	11.50 11.50		BOT	5.00	3.00	50.00



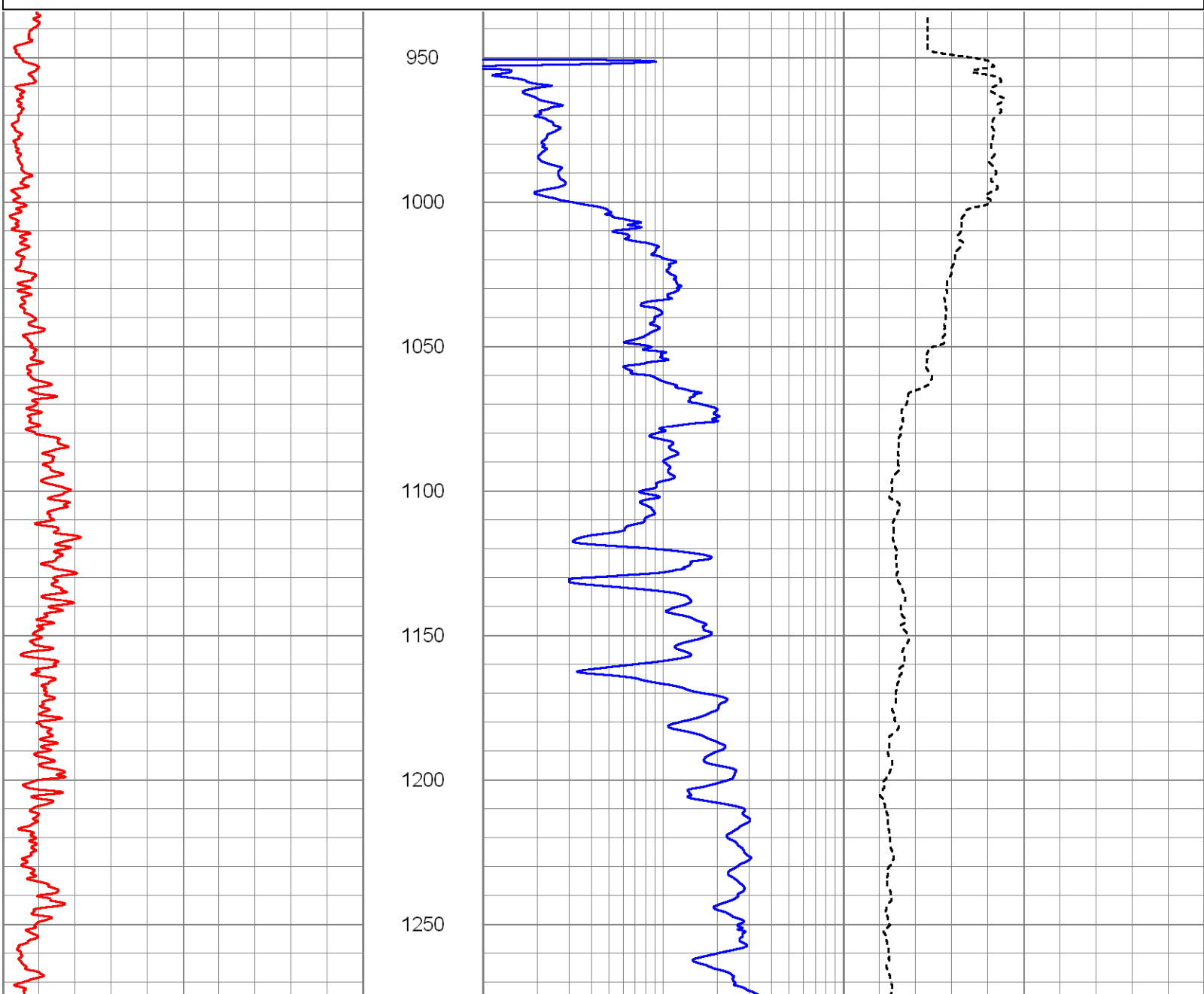
Dataset: biscmw1.db: field/well/run6/pass8
Total Length: 26.00 ft
Total Weight: 227.00 lb
O.D.: 3.50 in

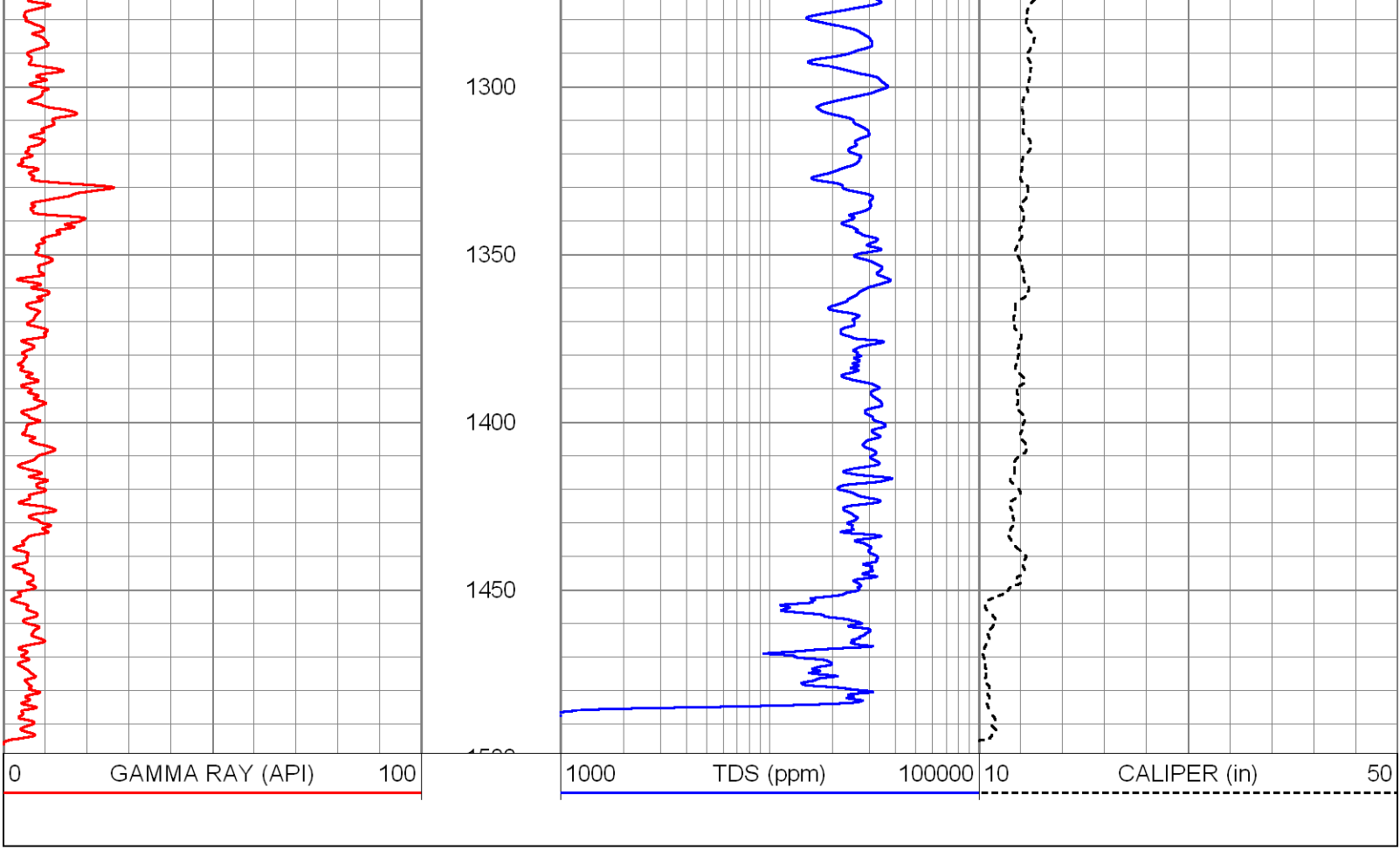


TDS

Database File: biscmw1.db
Dataset Pathname: run/_mpk1_
Presentation Format: tds
Dataset Creation: Thu Aug 30 02:41:36 2012
Charted by: Depth in Feet scaled 1:600

0 GAMMA RAY (API) 100 1000 TDS (ppm) 100000 10 CALIPER (in) 50







**FLUID
CONDUCTIVITY
TEMPERATURE
LOG**

Company CH2M HILL
Well MW-1
Field BISCAYNE LANDING, NORTH MIAMI
County DADE
State FLORIDA

Company CH2M HILL
Well MW-1
Field BISCAYNE LANDING, NORTH MIAMI
County DADE State FLORIDA

Location: API # :
SEC TWP RGE
Permanent Datum PAD Elevation PAD
Log Measured From PAD
Drilling Measured From PAD
Elevation
K.B.
D.F.
G.L.

Date	30-AUG-2012			
Run Number	SIX			
Depth Driller	1500'			
Depth Logger	1500'			
Bottom Logged Interval	1500'			
Top Log Interval	CASING			
Open Hole Size	18.5"12.25"9.875"			
Type Fluid	MUD			
Density / Viscosity	NA			
Max. Recorded Temp.	NA			
Estimated Cement Top	NA			
Time Well Ready	0300			
Time Logger on Bottom	0320			
Equipment Number	104			
Location	FT MYERS			
Recorded By	GARCIA			
Witnessed By	C. IVERY			
Borehole Record		Borehole Record		
Run Number	Bit	From	To	Run No
ONE	12.25"	SURFACE	375'	FIVE
TWO	40.5"	CASING	348'	SIX
THREE	12.25"	CASING	1050'	SEVEN
FOUR	28.5"	CASING	954'	
Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	42"	.375" W.T.	SURFACE	60'
Prot. String	30"	.375" W.T.	SURFACE	345'
Production String	20"	.375" W.T.	SURFACE	950'
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

XY CALIPER/GAMMA RAY
DUAL INDUCTION
BOREHOLE COMPENSATED SONIC
FLOWMETER
BOREHOLE TELEVIEWER



MERGED FCT (230GPM)

Database File: biscmw1.db
 Dataset Pathname: run6/pass20
 Presentation Format: fit_mg
 Dataset Creation: Thu Aug 30 07:48:31 2012 by Log SOC 110722
 Charted by: Depth in Feet scaled 1:240

60 DYNAMIC TEMP (degF) 120

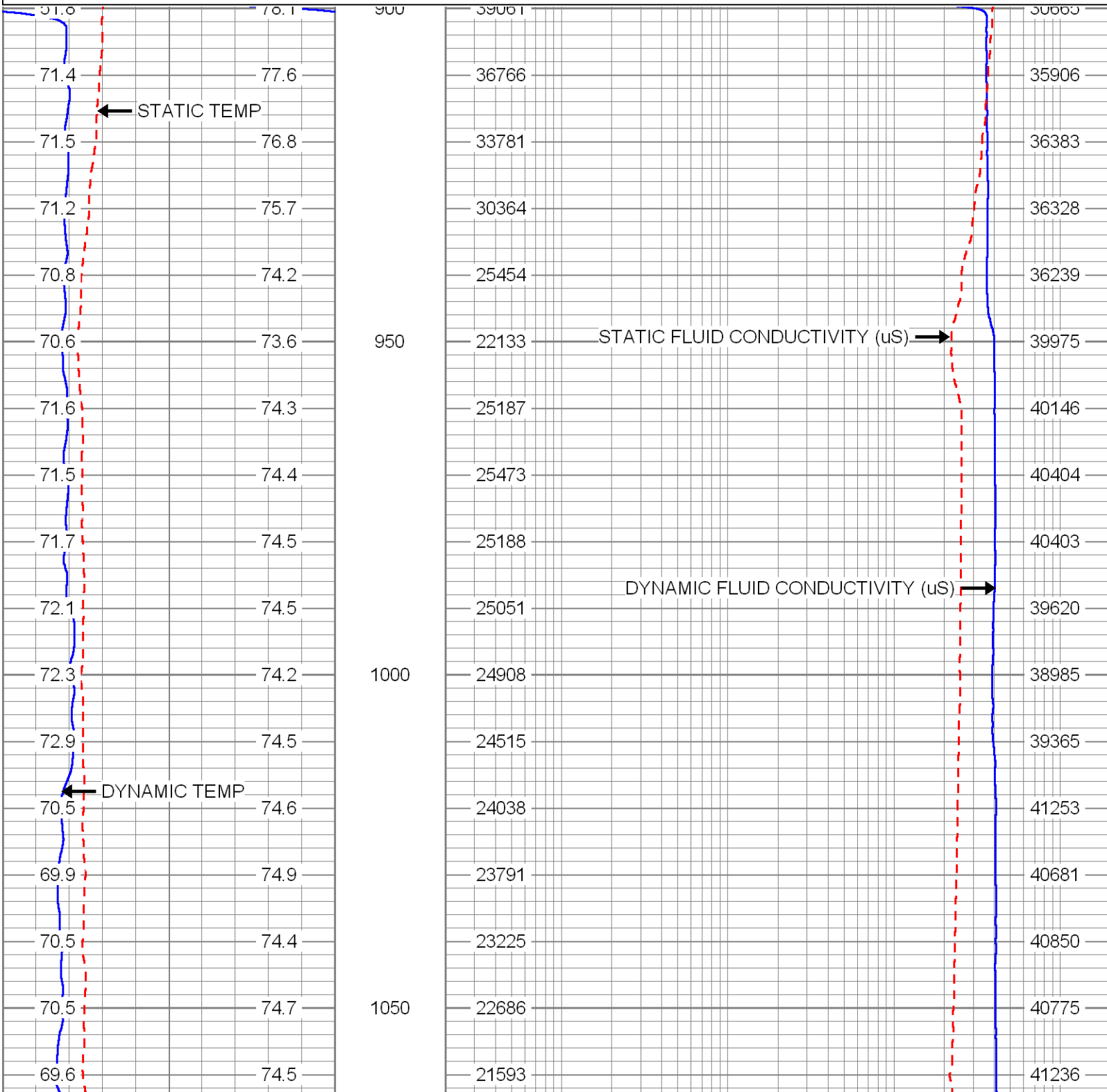
60 STATIC TEMP (degF) 120

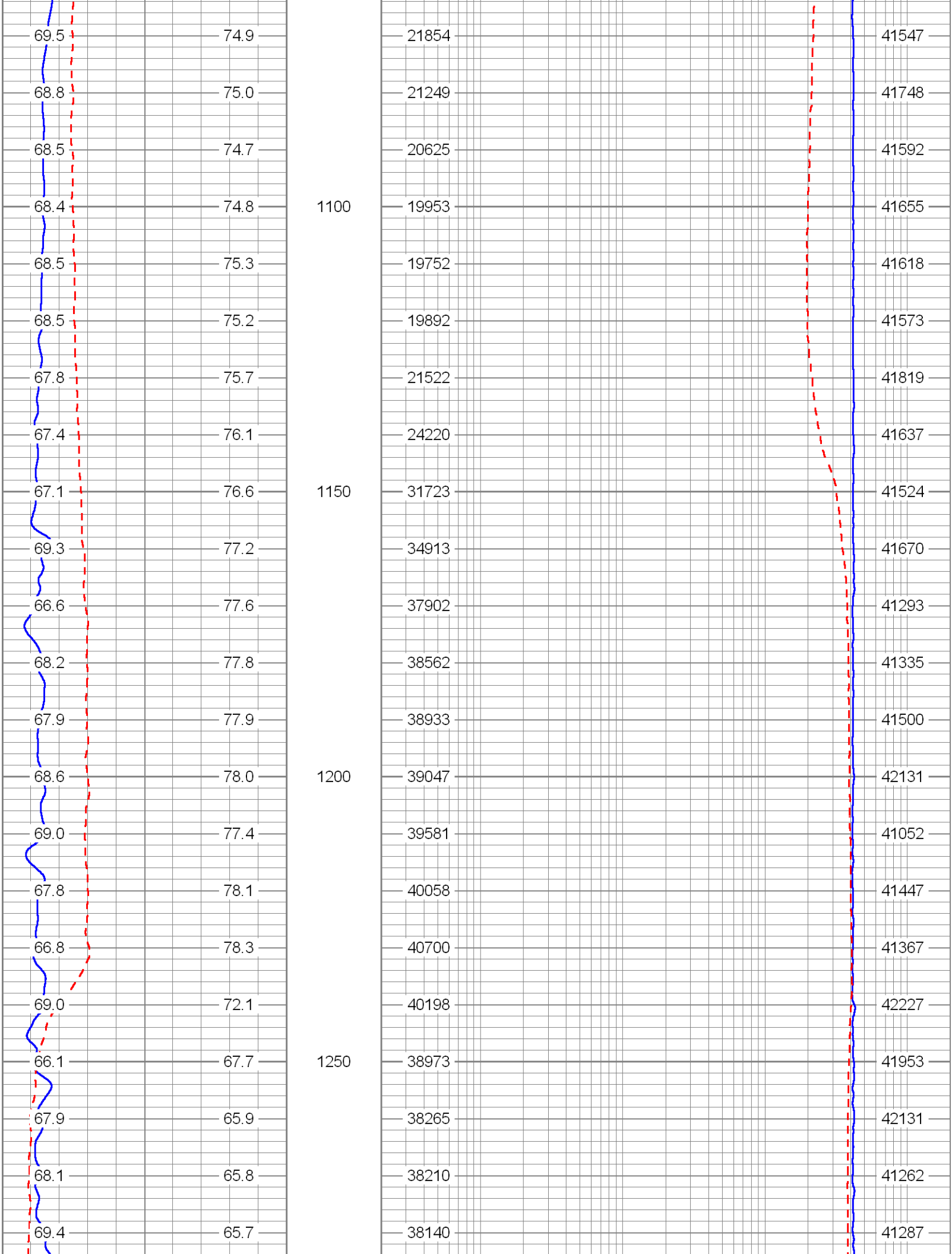
DYN TEMP (degF)	STATIC TEMP (degF)
--------------------	-----------------------

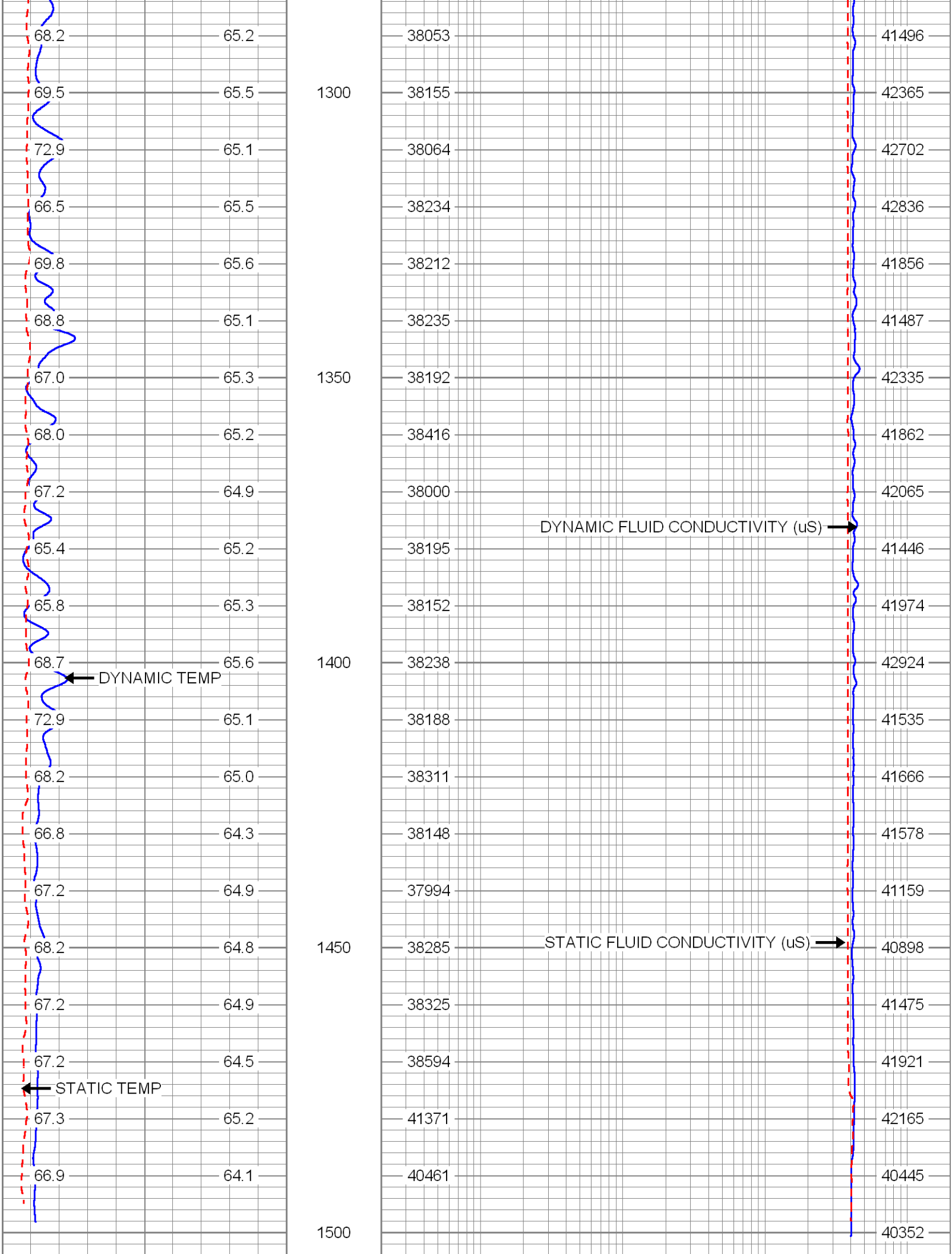
20 DYNAMIC FLUID CONDUCTIVITY (uS) (uS/cm) 200000

20 STATIC FLUID CONDUCTIVITY (uS) (uS/cm) 200000


STATIC FLUID COND (uS/cm)	DYN FLUID COND (uS/cm)
------------------------------	---------------------------







60	DYNAMIC TEMP (degF)	120	20	DYNAMIC FLUID CONDUCTIVITY (uS) (uS/cm)	200000
60	STATIC TEMP (degF)	120	20	STATIC FLUID CONDUCTIVITY (uS) (uS/cm)	200000
DYN TEMP (degF)		STATIC TEMP (degF)		DYN FLUID COND (uS/cm)	
DYN TEMP (degF)		STATIC TEMP (degF)		DYN FLUID COND (uS/cm)	

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
TEMP FRES	0.70		TEMP-SONDEX (31)	1.20	1.63	10.00
	0.50		FRT-SONDEX (31)	0.60	1.69	10.00
		Dataset:	biscmw1.db: field/well/run6/pass20			
		Total Length:	1.80 ft			
		Total Weight:	20.00 lb			
		O.D.	1.69 in			

Calibration Report

Database File: biscmw1.db
Dataset Pathname: run6/pass20
Dataset Creation: Thu Aug 30 07:48:31 2012 by Log SOC 110722

FRT Calibration Report

Serial Number: 31
Tool Model: SONDEX
Performed: Thu Dec 08 10:38:51 2011

Point #	Reading	Reference
1	1.202 cps	944.000 uS/cm
2	186.757 cps	10280.000 uS/cm
3	430.670 cps	23950.000 uS/cm
4	920.167 cps	48500.000 uS/cm
5	cps	uS/cm
6	cps	uS/cm
7	cps	uS/cm
8	cps	uS/cm
9	cps	uS/cm
10	cps	uS/cm

Temperature Calibration Report

Serial Number: 31
Tool Model: SONDEX
Performed: Thu Dec 08 10:41:42 2011

Point #	Reading	Reference
1	116.78 cps	33.00 degF
2	331.16 cps	80.00 degF
3	981.46 cps	210.50 degF
4	cps	degF

4	cps	degF
5	cps	degF
6	cps	degF
7	cps	degF
8	cps	degF
9	cps	degF
10	cps	degF



FLOW METER LOG

Company CH2M HILL
 Well MW-1
 Field BISCAYNE LANDING, NORTH MIAMI
 County DADE
 State FLORIDA

Company CH2M HILL
 Well MW-1
 Field BISCAYNE LANDING, NORTH MIAMI
 County DADE State FLORIDA

Location: API # :
 Other Services
 SEC TWP RGE
 Permanent Datum PAD PAD Elevation PAD
 Log Measured From PAD PAD
 Drilling Measured From PAD
 Elevation
 K.B.
 D.F.
 G.L.

Date	30-AUG-2012			
Run Number	SIX			
Depth Driller	1500'			
Depth Logger	1500'			
Bottom Logged Interval	1500'			
Top Log Interval	CASING			
Open Hole Size	18.5"12.25"9.875"			
Type Fluid	MUD			
Density / Viscosity	NA			
Max. Recorded Temp.	NA			
Estimated Cement Top	NA			
Time Well Ready	0300			
Time Logger on Bottom	0320			
Equipment Number	104			
Location	FT MYERS			
Recorded By	GARCIA			
Witnessed By	C. IVERY			
Borehole Record		Borehole Record		
Run Number	Bit	From	To	Run No
ONE	12.25"	SURFACE	375'	FIVE
TWO	40.5"	CASING	348'	SIX
THREE	12.25"	CASING	1050'	SEVEN
FOUR	28.5"	CASING	954'	
Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	42"	.375" W.T.	SURFACE	60'
Prot. String	30"	.375" W.T.	SURFACE	345'
Production String	20"	.375" W.T.	SURFACE	950'
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

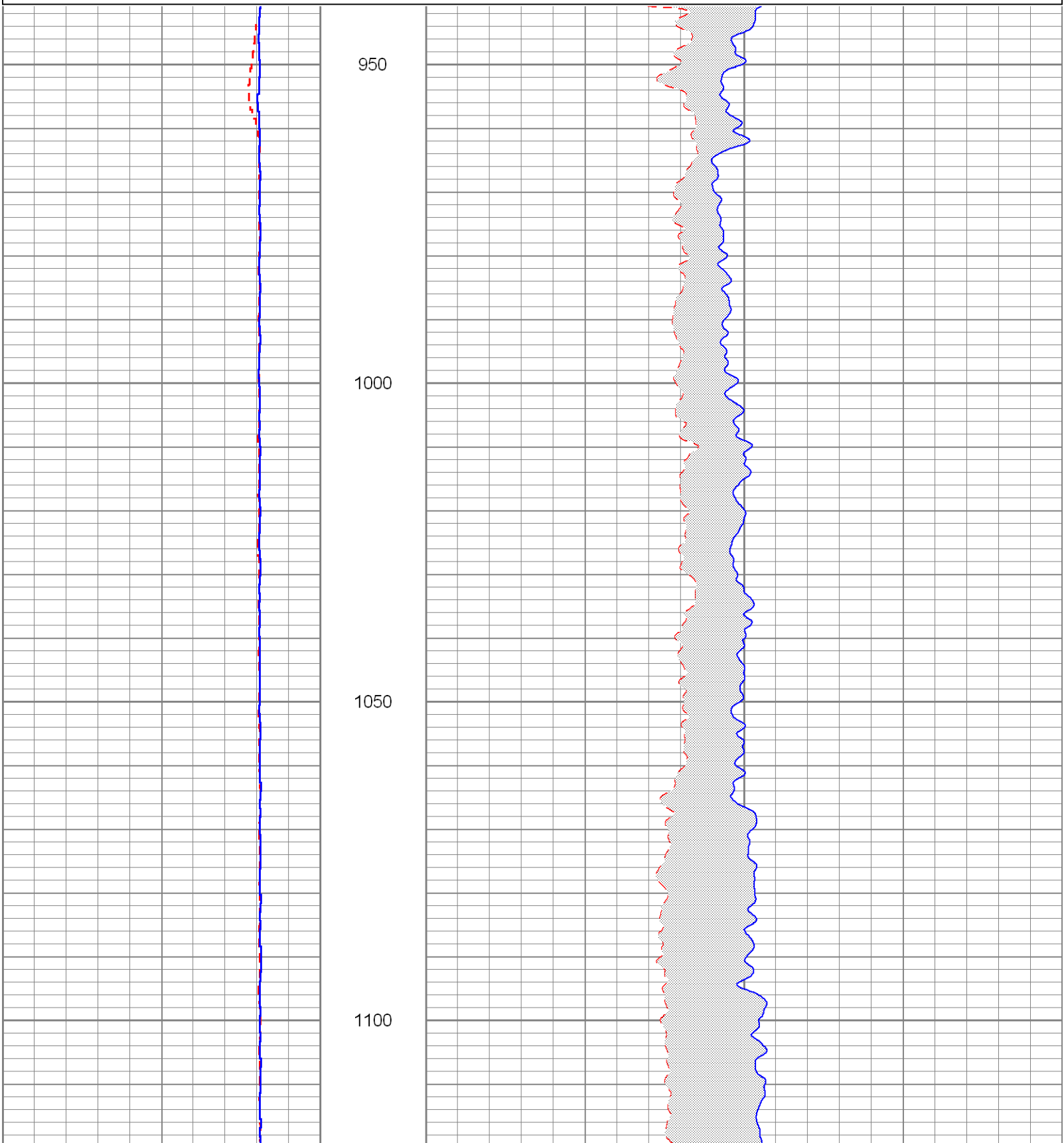
FLUID RESISTIVITY TEMPERATURE
 XY CALIPER/GAMMA RAY
 DUAL INDUCTION
 BOREHOLE COMPENSATED SONIC
 BOREHOLE TELEVIEWER



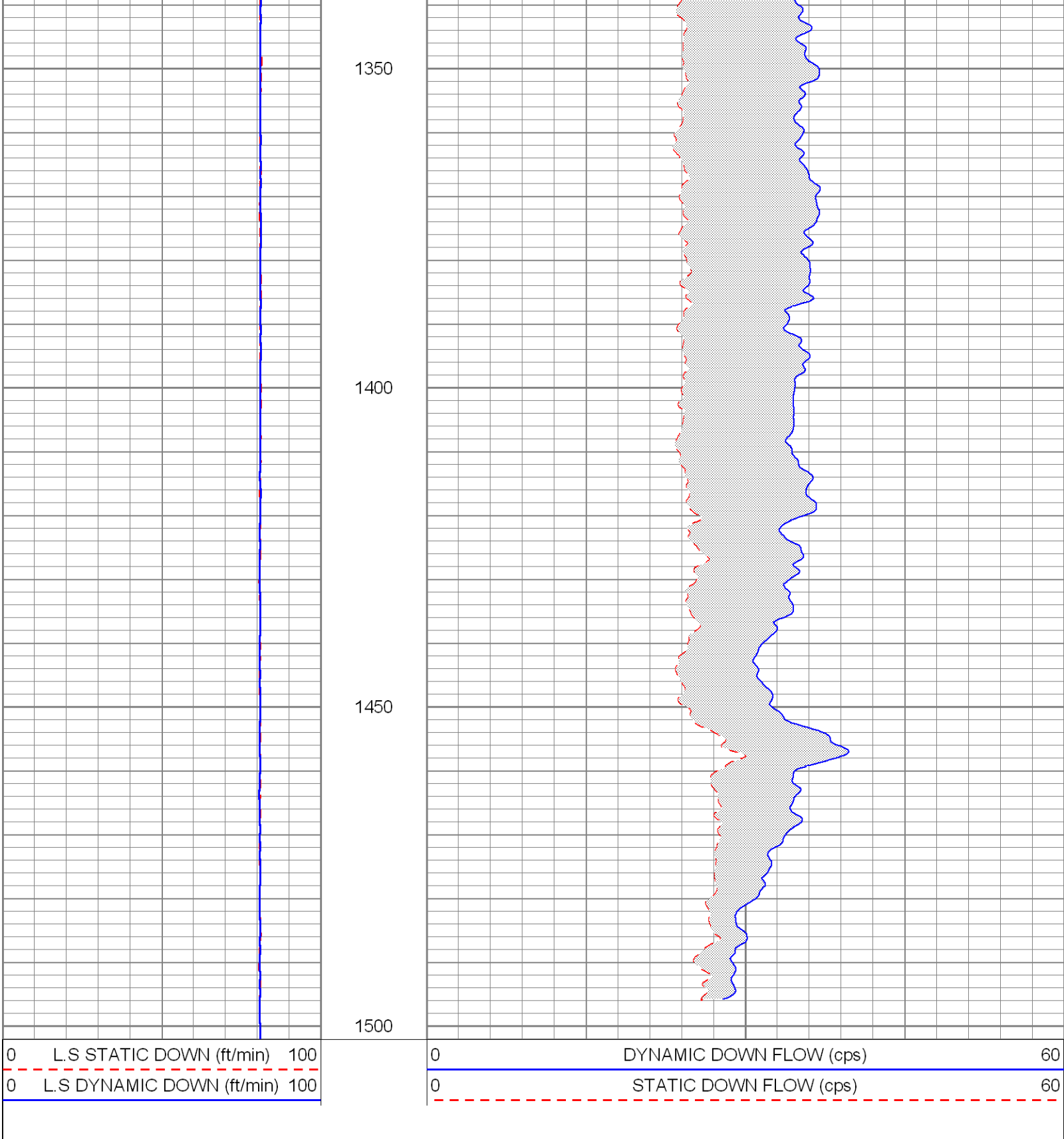
MERGED FLOW (230GPM)

Database File: biscmw1.db
Dataset Pathname: run6/pass17
Presentation Format: fm_dnmg
Dataset Creation: Thu Aug 30 06:20:22 2012 by Log SOC 110722
Charted by: Depth in Feet scaled 1:240

0	L.S STATIC DOWN (ft/min)	100	0	DYNAMIC DOWN FLOW (cps)	60
0	L.S DYNAMIC DOWN (ft/min)	100	0	STATIC DOWN FLOW (cps)	60





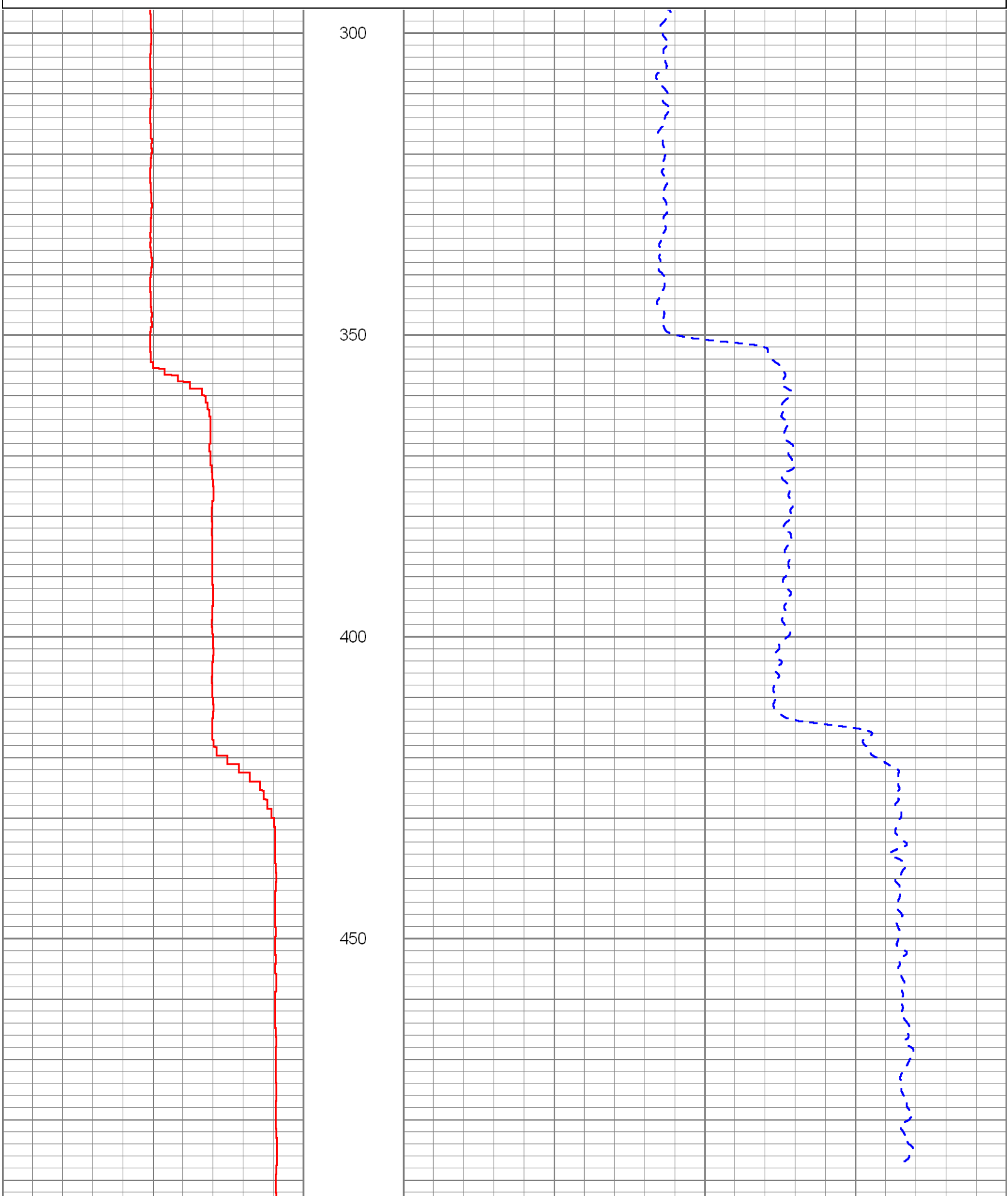


FLOW CALS 50,70,90 FPM

Database File: biscmw1.db
 Dataset Pathname: run6/pass13
 Presentation Format: flowcals
 Dataset Creation: Thu Aug 30 05:55:14 2012 by Log SOC 110722
 Created by: [unclear]

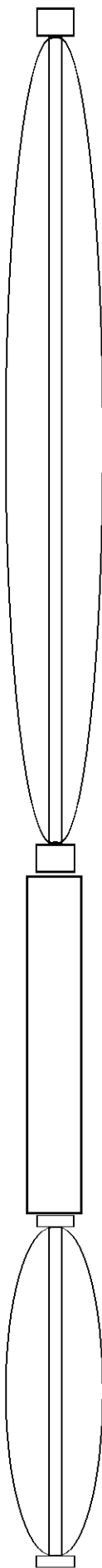

0 LINE SPEED DOWN (ft/min) 100

0 SPINNER DOWN (CPS) (cps) 50



0 LINE SPEED DOWN (ft/min) 100

0 SPINNER DOWN (CPS) (cps) 50

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
						
			8FTSB	8.00	1.69	70.00
			FLOW-LARGE (65)	3.13	3.75	20.00
FLOWP FLOWN	3.75 3.75					
			SHRT	3.25	2.00	30.00

Dataset: bismcw1.db: field/well/run6/pass13

Total Length: 14.28 ft

Total Length:	14.58 ft
Total Weight:	120.00 lb
O.D.	3.75 in