



Baker Atlas

HIGH DEFINITION INDUCTION LOGSM
GAMMA RAY LOG
CALIPER LOG

FILE NO:	COMPANY	NALCOR ENERGY
API NO:	WELL	NALCOR ET AL FINNEGAN #1
	FIELD	FINNEGAN
	PROVINCE	NEWFOUNDLAND AND LABRADOR
Ver. 3.87	LOCATION:	OTHER SERVICES 2ZDL-CN-CAL-GR XMAC-ORIT-GR RCOR / VSP BHP SBT
LICENSE: 2010-128-04	LAT 49.92 N LONG 63.33 W	ELEVATIONS: KB 125.00 M DF GL 118.75 M
PERMANENT DATUM LOG MEASURED FROM DRILL MEAS. FROM	G.L. ELEVATION 118.75 M K.B. 6.25 M ABOVE P.D. KELLY BUSHING	

DATE		27-NOV-2010		
RUN	TRIP	2	2	
SERVICE ORDER		CA209243		
DEPTH DRILLER		3130.0 M		
DEPTH LOGGER		NA		
BOTTOM LOGGED INTERVAL		3016.3 M		
TOP LOGGED INTERVAL		2275.0 M		
CASING DRILLER		244.5 MM ② 2276.0 M		
CASING LOGGER		2275.0 M		
BIT SIZE		216.0 MM		
TYPE OF FLUID IN HOLE		GELCHEM		
DENSITY	VISCOSITY	1245.0 G/L	82.0 S	
PH	FLUID LOSS	10.0	5.7 ML	
SOURCE OF SAMPLE		TOOL MEASURED		
RM AT MEAS. TEMP.		0.510 OHMM	② 57.0 DEGC	②
RMF AT MEAS. TEMP.		0.440 OHMM	② 57.0 DEGC	②
RMC AT MEAS. TEMP.		0.610 OHMM	② 57.0 DEGC	②
SOURCE OF RMF	RMC	CALCULATED	CALCULATED	
RM AT BHT		0.51 OHMM	② 57.0 DEGC	②
TIME SINCE CIRCULATION		14.3 HOURS		
MAX. RECORDED TEMP.		57.0 DEGC		
EQUIP. NO.	LOCATION	HL4291	OH NISKU	
RECORDED BY		S.CREWE\J. HOUSE		
WITNESSED BY		R.STRICKLAND\N.WATSON		

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT. BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

BOREHOLE RECORD		
BIT SIZE	FROM	TO
444.5 MM	0.0 M	570.0 M
311.0 MM	570.0 M	2285.0 M
216.0 MM	2285.0 M	3130.0 M

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
339.7 MM	81.1 KG/M	K-55	0.0 M	570.0 M
244.5 MM	64.7 KG/M	NA	570.0 M	2276.0 M
177.8 MM				

REMARKS

RUN 2 TRIP 2 : TIME STOPPED CIRCULATION: 27-NOV-2010 09:30 AM

TD NOT LOGGED DUE TO DOWNHOLE CONDITIONS

SAMPLE MEASURED:

RM 0.955 @ 15.2 DEG
RMF 0.825 @ 15.2 DEG
RMC 1.146 @ 15.2 DEG

BOREHOLE AND TEMPERATURE CORRECTIONS HAVE BEEN APPLIED TO HDIL DATA.
HDIL RECORDED WITH AND CORRECTED TO 38.0 MM STANDOFF.
CALIPER PRESENTED WITH HDIL TO ASSIST WITH THE QC OF THE DATA.

RIG: STONEHAM 11

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
2	2	SWIVEL	3944XB	73682	FREE
2	2	ISO SUB	4488NA	10143913	FREE
2	2	TTMA SUB	3980XA	10118618	FREE
2	2	COMM/POWER	3518FB	10415638	DECENTRALIZED
2	2	COMM/GR	3518EB	10118926	DECENTRALIZED
2	2	FOCUS CN	2436XA	10354054	DECENTRALIZED
2	2	FOCUS ZDEN	2223XA	10130454	PAD DEVICE
2	2	DBL KNJT	3929XA	10202451	FREE
2	2	DBL KNJT	3931XA	10195472	FREE
2	2	ALGNMNT SUB	4408NA	402986	FREE
2	2	FOCUS ZDEN	2223XA	402526	PAD DEVICE
2	2	DBL KNJT	3931XA	10480675	FREE
2	2	FOCUS HDIL	1530XA	402505	STANDOFF

INSTRUMENT CONFIGURATION

Source File: /dat1a/pass/nalcor_finn_run2/r2t2-tdg

CABLEHEAD

Diameter : 8.6 cm
Length : 167.6 cm
Weight : 10.9 kg
Series : CABL338
Mnemonic : CBLH

SWIVEL

Diameter : 8.6 cm
Length : 101.6 cm
Weight : 30.0 kg
Series : 3944XB
Mnemonic : SWVL

FOCUS TEN/TEMP/MUD RES/ACCEL

Diameter : 8.0 cm
Length : 131.4 cm
Weight : 27.7 kg
Series : 3980XA
Mnemonic : TTMA
Tensile Str. : 20318 kg

FOCUS TELEMETRY (POWER SECTION)

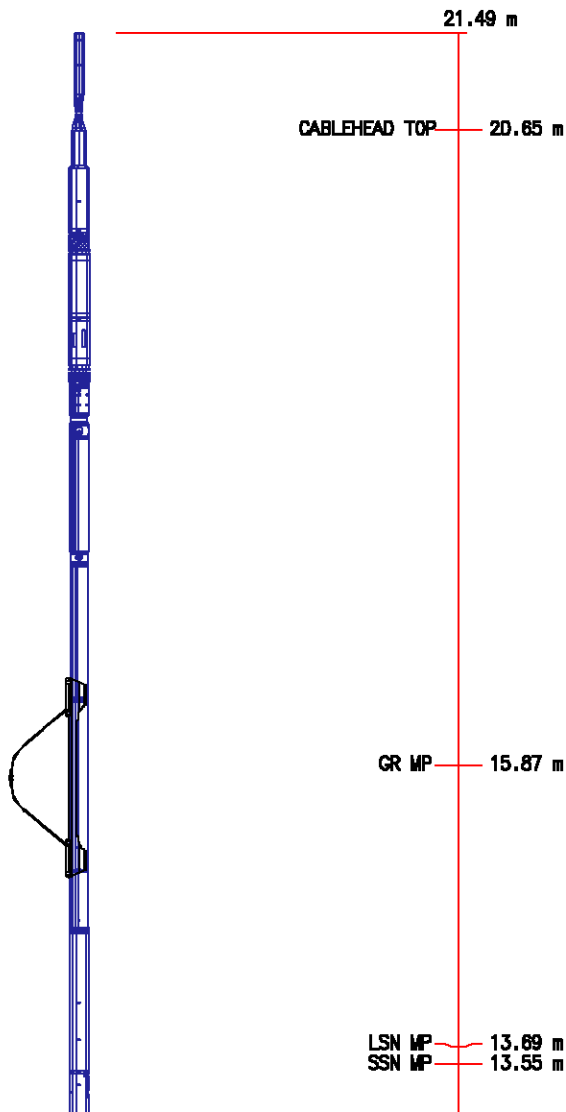
Diameter : 8.0 cm
Length : 113.1 cm
Weight : 21.8 kg
Series : 3518FB
Mnemonic : TMGR

FOCUS EB/EG TELEMETRY GAMMA RAY

Diameter : 7.9 cm
Length : 177.8 cm
Weight : 28.6 kg
Series : 3518EG
Mnemonic : GR
Tensile Str. : 25000 kg
Compressive : 14545 kg

FOCUS COMPENSATED NEUTRON

Diameter : 8.0 cm
Length : 146.7 cm
Weight : 29.5 kg
Series : 2436XA
Mnemonic : CN
Tensile Str. : 22727 kg
Compressive : 22727 kg



FOCUS Z-DENSILOG

Diameter : 9.5 cm
Length : 292.1 cm
Weight : 90.9 kg
Series : 2223XA
Mnemonic : ZDL
Tensile Str. : 22727 kg
Compressive : 12955 kg

FOCUS KNUCKLE JOINT

Diameter : 8.0 cm

FOCUS KNUCKLE JOINT

Diameter : 8.0 cm

FOCUS KNUCKLE JOINT

Diameter : 8.0 cm

FOCUS KNUCKLE JOINT

Diameter : 8.0 cm

FOCUS ALIGNMENT SUB

FOCUS Z-DENSILOG

Diameter : 9.5 cm
Length : 292.1 cm
Weight : 90.9 kg
Series : 2223XA
Mnemonic : ZDL
Tensile Str. : 22727 kg
Compressive : 12955 kg

FOCUS KNUCKLE JOINT

Diameter : 8.0 cm

FOCUS KNUCKLE JOINT

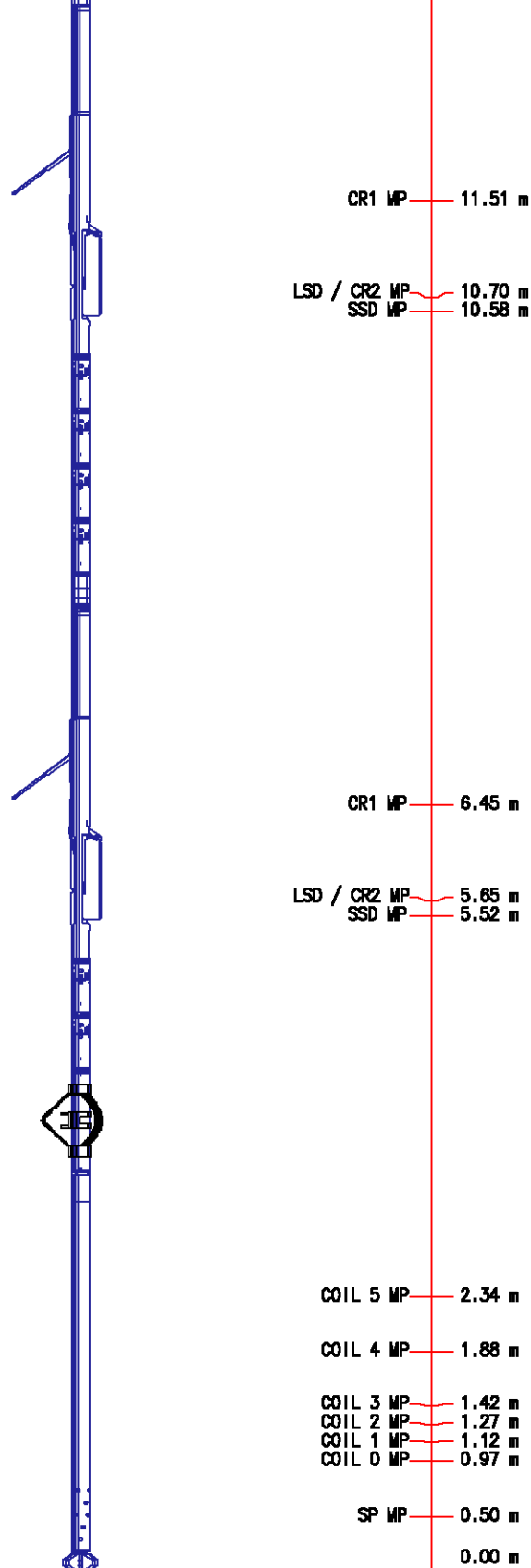
Diameter : 8.0 cm

FOCUS HIGH DEFINITION INDUCTION TOOL

Diameter : 8.0 cm
Length : 406.4 cm
Weight : 52.3 kg
Series : 1530XA
Mnemonic : HDIL
Tensile Str. : 30000 kg
Compressive : 10455 kg

FOCUS PINEAPPLE / CABBAGE

TOTAL LENGTH: 21.49 m
TOTAL WEIGHT: 517.7 kg
MAX DIAMETER: 15.6 cm



PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pass/nalcor_flnn_run2/m970b05.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 2237.845 m BOTTOM DEPTH: 3020.028 m

SYMMETRIC FILTER				
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
CHT	FILTER ()	medium (1)		TOP BOTTOM
GR MED RES	FILTER ()	medium (1)		" "
TENSION	FILTER ()	medium (1)		" "
SP-SPDH	FILTER ()	medium (1)		" "

BOREHOLE & CEMENT				
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
X-Y COMBINED CALIPER PROCESSING-FOCM5Y	Caliper - FOCUS	Average		TOP BOTTOM
BIT SIZE	BIT SIZE	216.000	mm	" "
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		" "
BOREHOLE CORR DIAMETER	FIXED DIAMETER (mbh*)	216.000	mm	" "
BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	BH TEMP DERIVED		" "
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	47.0	degC	" "
	MUD SAMPLE RES	0.700	ohm.m	" "
BOREHOLE TEMP from GRADIENT	Known BH REF TEMP	50.0	degC	" "
	at BH REF DEPTH	2390.0	m	" "
	with TEMP GRADIENT	2.187	0.01 degC/m	" "

ACCELERATION PROCESSING				
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
ACCEL CORR SWITCH	ACCEL DEPTH CORR	CORRECTION ON		TOP BOTTOM

HDIL PROCESSING				
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
HDIL TEMPERATURE CORRECTION	TEMP CORRECTION	ON		TOP BOTTOM
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		" "
	ABC to CALCULATE	BOREHOLE SIZE		" "
	STANDOFF	38.10	mm	" "
	TOOL POSITION	ECCENTERED		" "
	Rmud MULTIPLIER	1.000		" "

CURVE DESCRIPTION REPORT

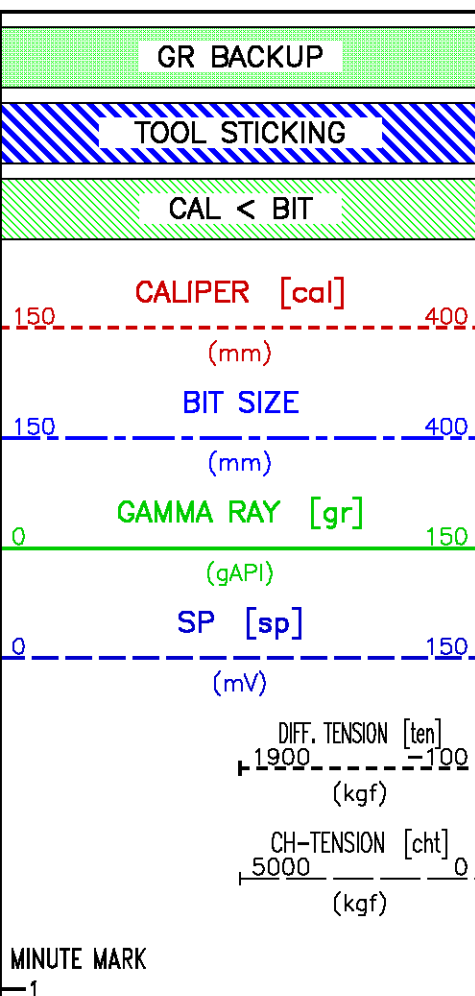
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:BIT	Nov 27 20:22:40 2010	BIT SIZE
F1:CAL	Nov 27 20:22:40 2010	CALIPER
F1:CHT	Nov 27 20:22:40 2010	CABLE HEAD TENSION
F1:GR	Nov 27 20:22:40 2010	GAMMA RAY
F1:M2CC9	Nov 27 20:22:40 2010	HDIL 2-FOOT RESOLUTION COMPRESSED CONDUCTIVITY, 90-INCH DOI
F1:M2R2	Nov 27 20:22:40 2010	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 20-INCH DOI
F1:M2R9	Nov 27 20:22:40 2010	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 90-INCH DOI
F1:MMRK	Nov 27 20:22:40 2010	MINUTE MARK
F1:SP	Nov 27 20:22:40 2010	SPONTANEOUS POTENTIAL
F1:TEN	Nov 27 20:22:40 2010	DIFFERENTIAL TENSION

CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	GR	15.70	M2R9	0.84		
CAL	5.52	M2CC9	0.84	SP	0.38		
CHT	0.00	M2R2	0.84	TEN	0.00		

Presentation : cpu1:/dat1a/pass/nalcor_finn_run2/fhdil_upper.pdf [1:600 Scale]
Plot Interval : 2270 - 3030 Meters

Data File 1 : F1 : cpu1:/dat1a/pass/nalcor_finn_run2/r2t2_main.xtf
Created On : Nov 27 20:22:40 2010
Company : NALCOR ENERGY
Well : NALCOR ET AL FINNEGAN 1
Field : FINNEGAN
File Interval : 2221.92 - 3023.84 Meters
Oct : m970b

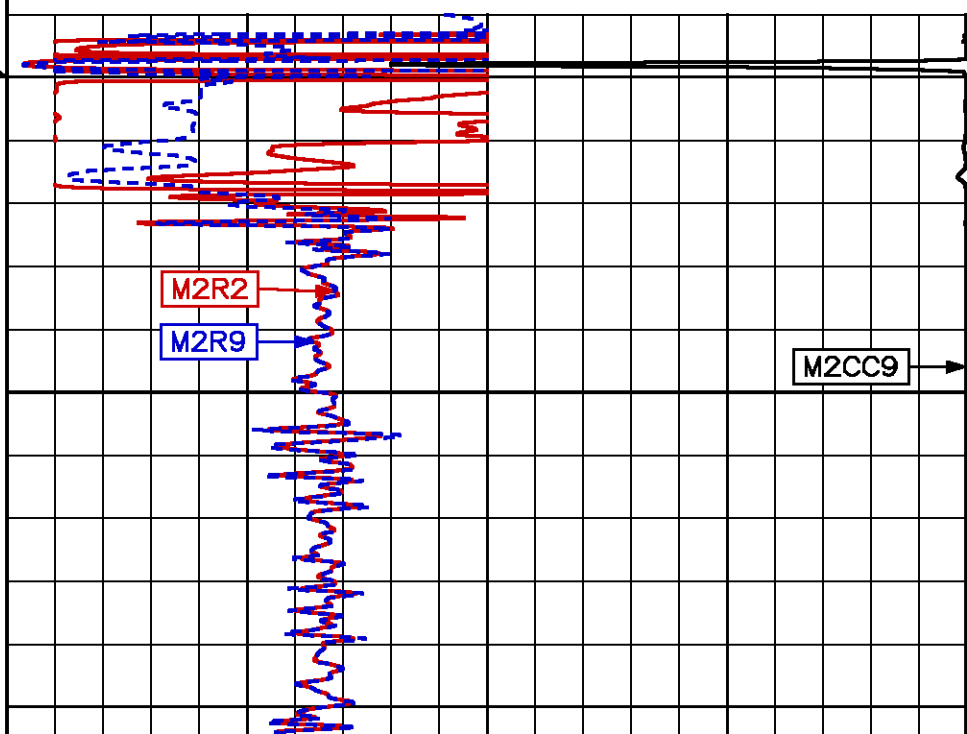
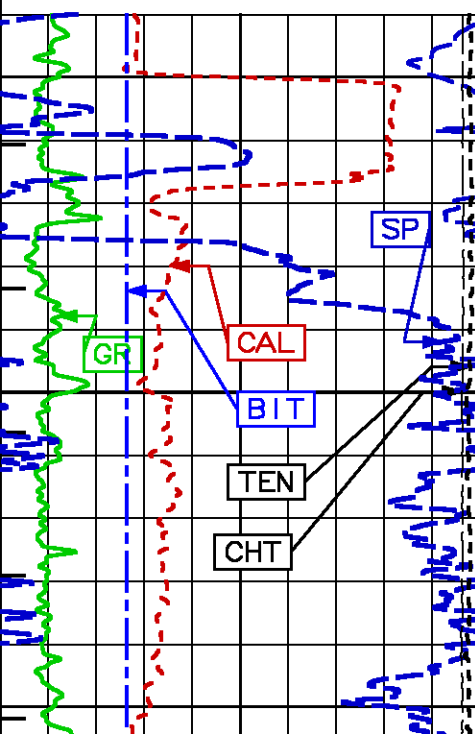
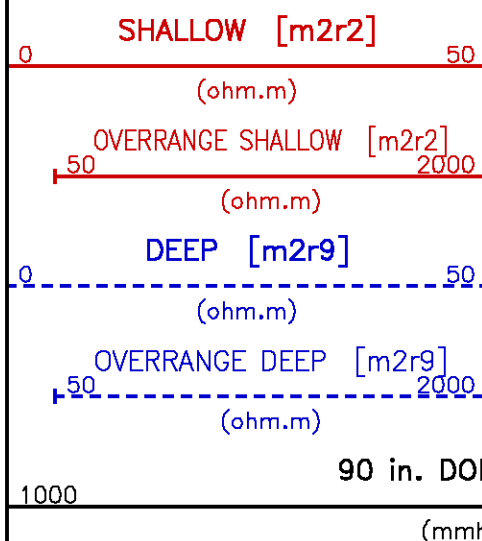


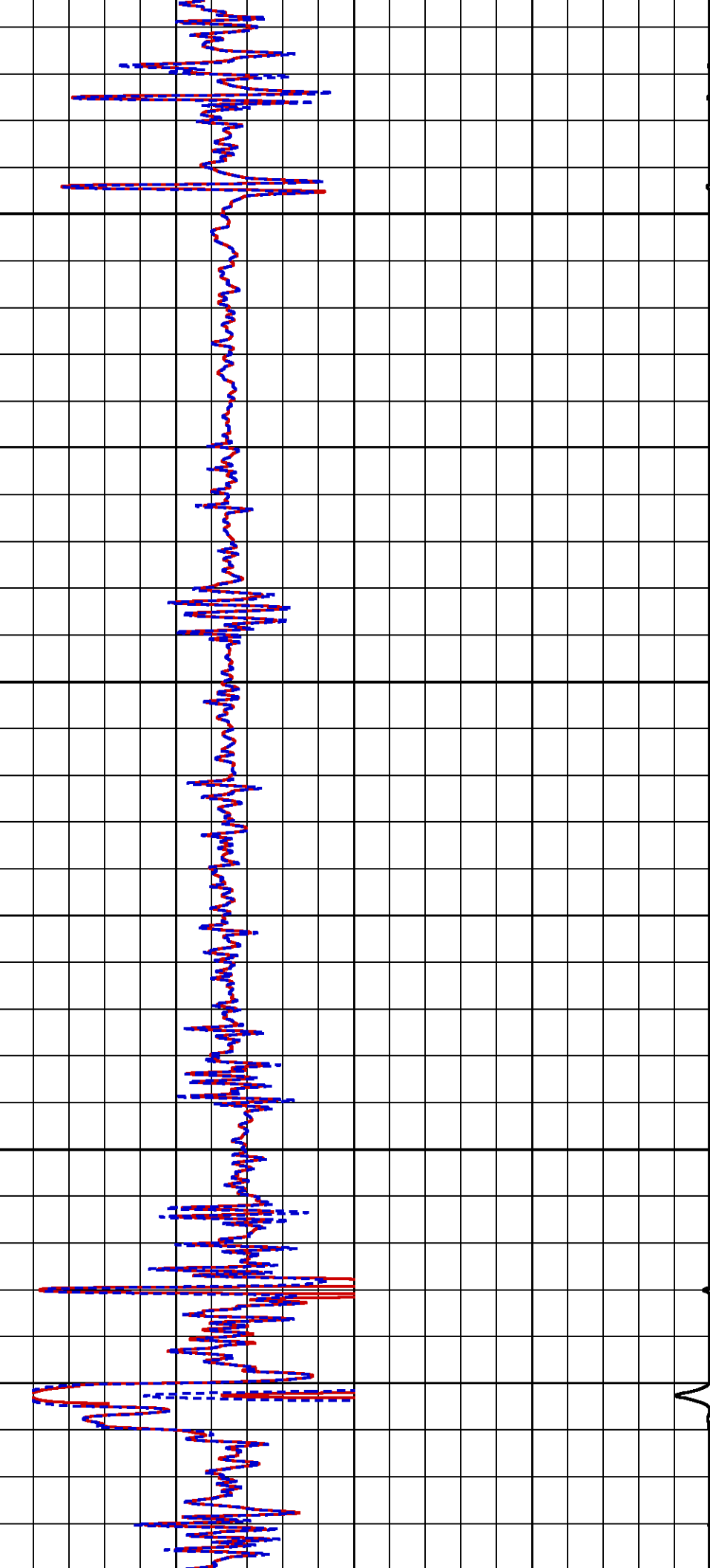
METERS

CSG

2300

2FT. Matched Resolution Resistivity

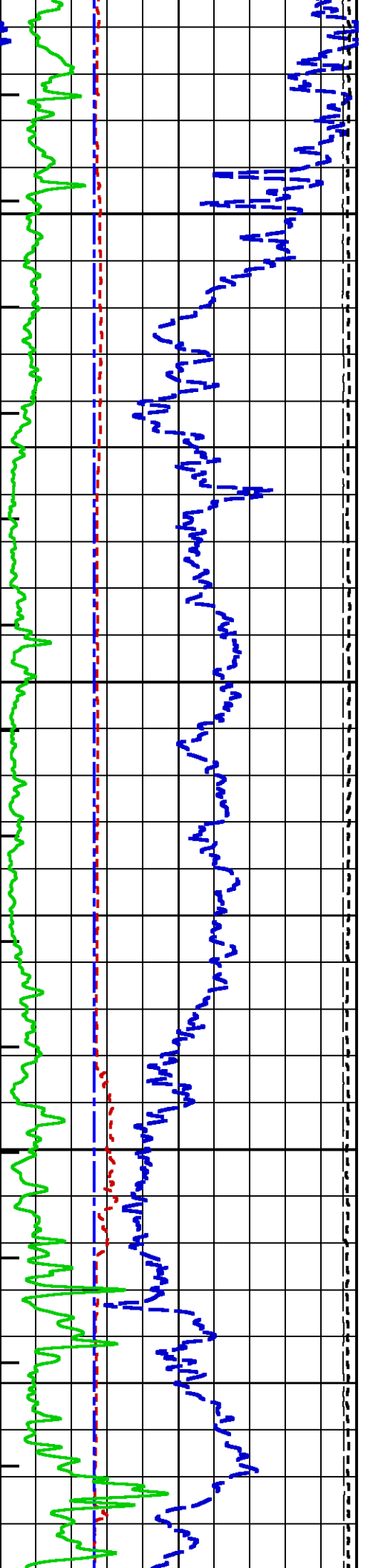


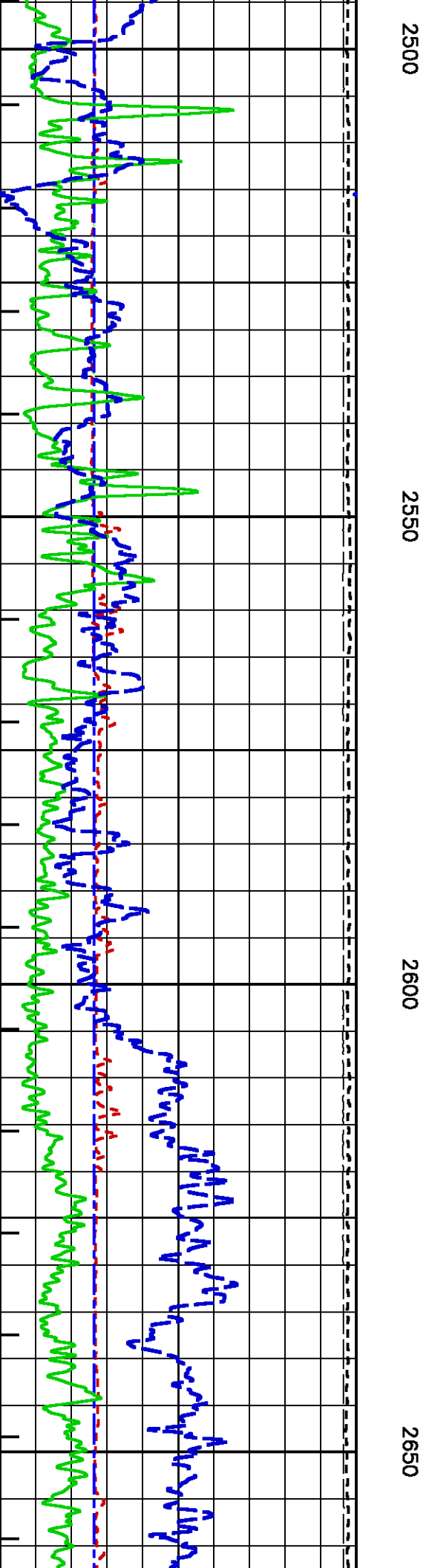
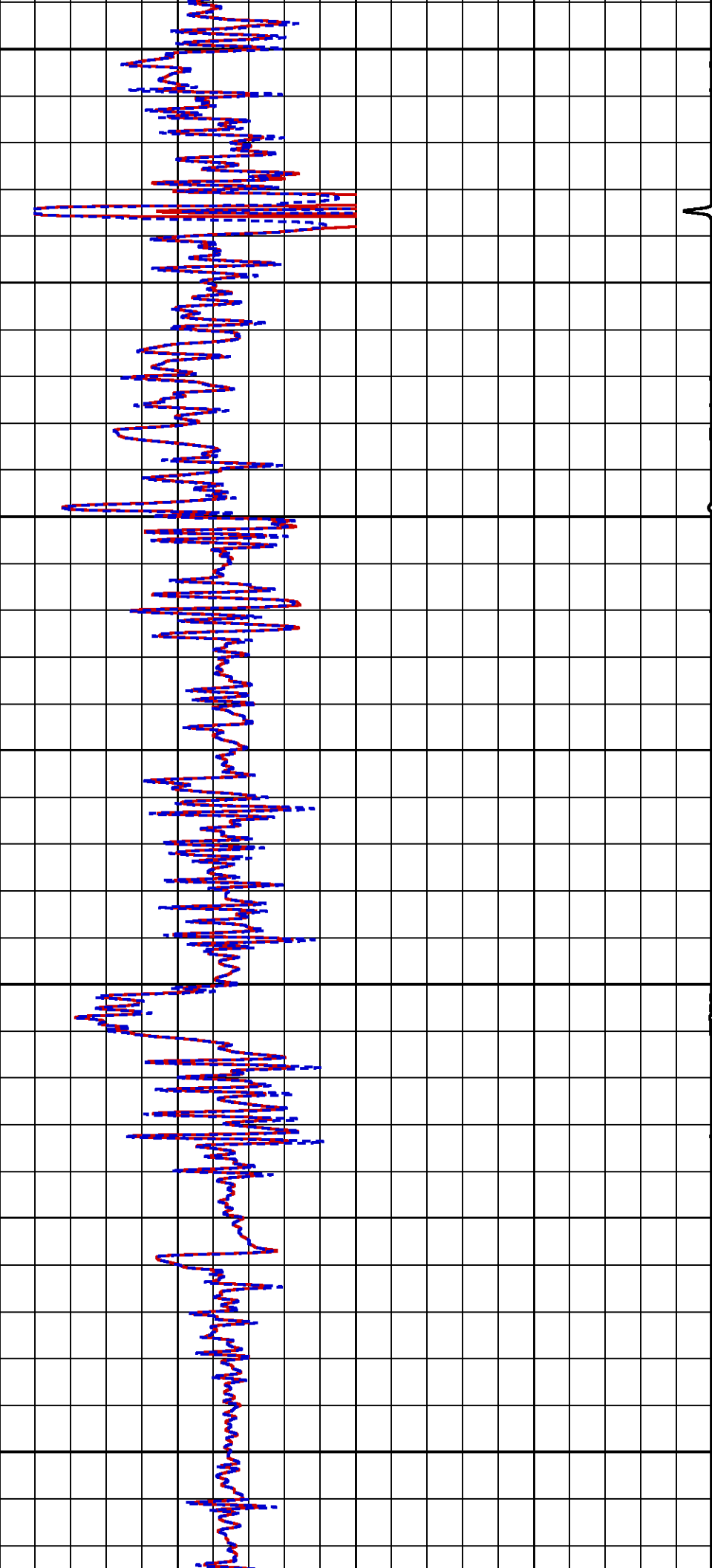


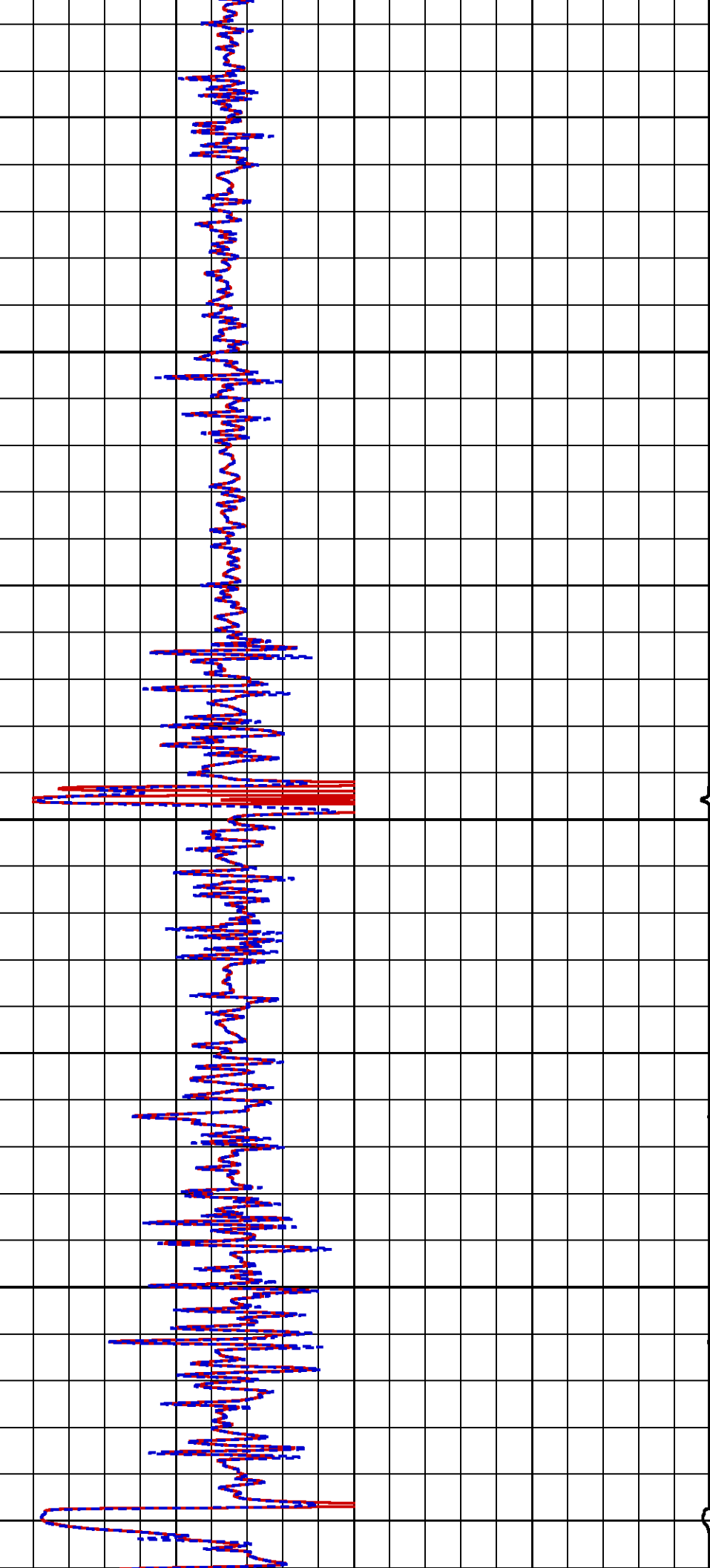
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2400

2450



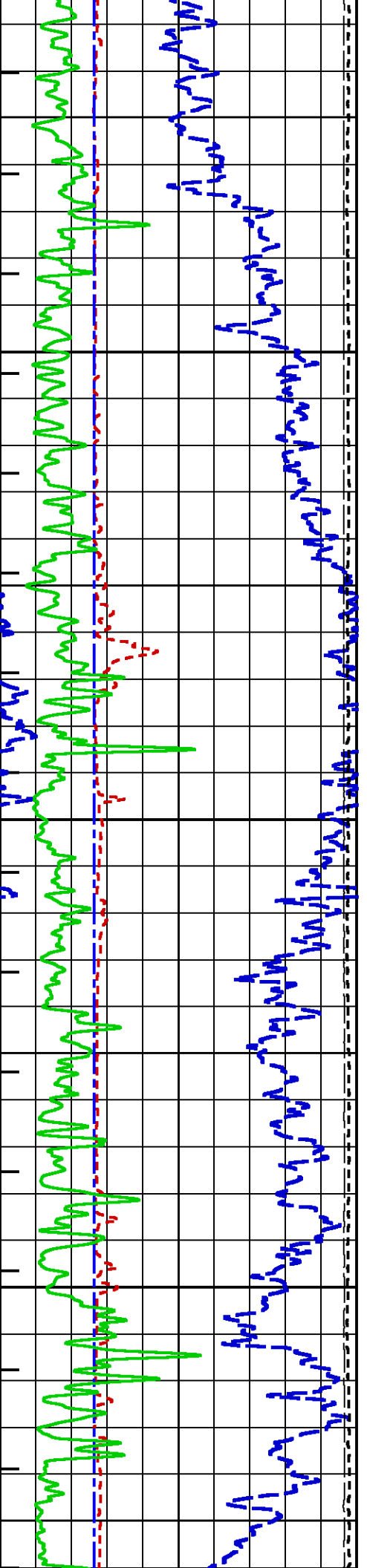


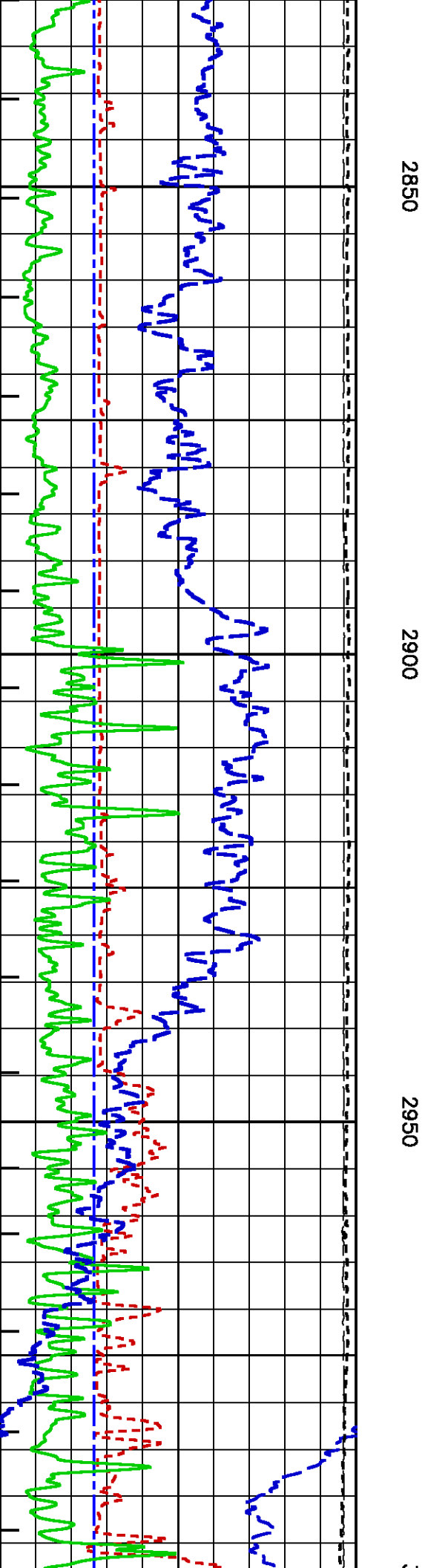


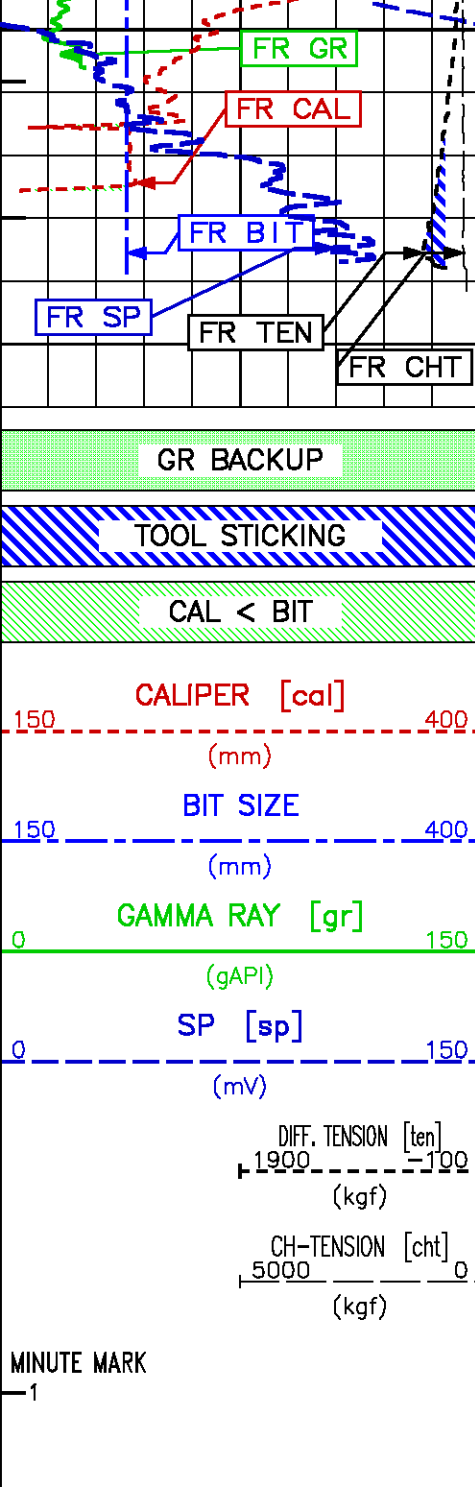
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2750

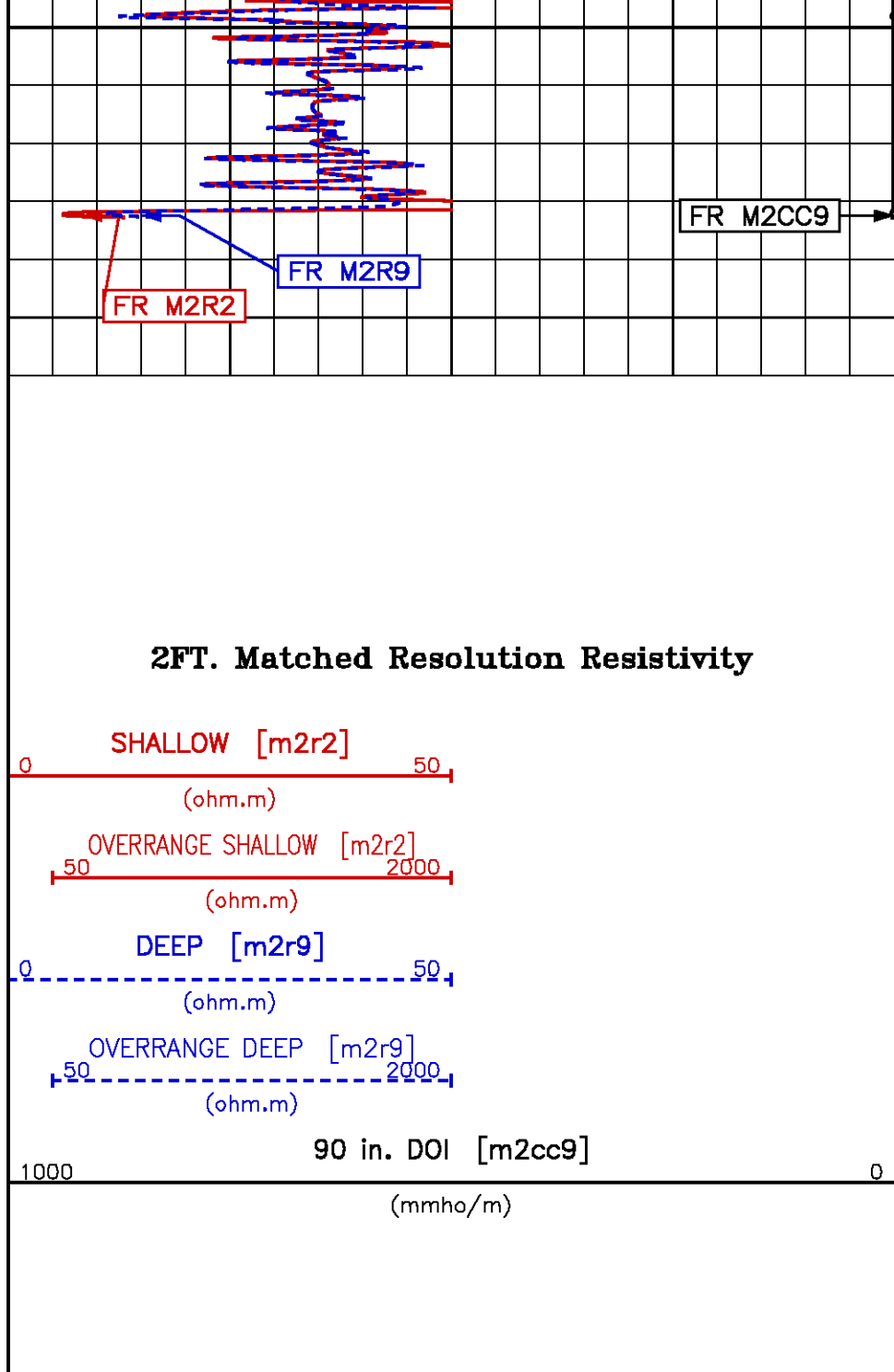
2800







5000
METERS



MAIN LOG

ECLIPS 6.11 Aug 06, 2010
Patches: 1

Sat Nov 27 23:30:41 2010

Pcrplt /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.50

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pass/nalcor_finn_run2/m970b05.prm
LOGGING MODE: DEPTH DIRECTION: UP

TOP DEPTH: 2237.845 m BOTTOM DEPTH: 3020.028 m

SYMMETRIC FILTER				
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
CHT	FILTER ()	medium (1)		TOP BOTTOM
GR MED RES	FILTER ()	medium (1)		" "
TENSION	FILTER ()	medium (1)		" "
SP-SPDH	FILTER ()	medium (1)		" "

BOREHOLE & CEMENT				
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
X-Y COMBINED CALIPER PROCESSING-FOCMSY Caliper - FOCUS		Average		TOP BOTTOM
BIT SIZE	BIT SIZE	216.000	mm	" "
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		" "
BOREHOLE CORR DIAMETER	FIXED DIAMETER (mbh*)	216.000	mm	" "
BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	BH TEMP DERIVED		" "
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	47.0	degC	" "
	MUD SAMPLE RES	0.700	ohm.m	" "
BOREHOLE TEMP from GRADIENT	Known BH REF TEMP	50.0	degC	" "
	at BH REF DEPTH	2390.0	m	" "
	with TEMP GRADIENT	2.187	0.01 degC/m	" "

ACCELERATION PROCESSING				
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
ACCEL CORR SWITCH	ACCEL DEPTH CORR	CORRECTION ON		TOP BOTTOM

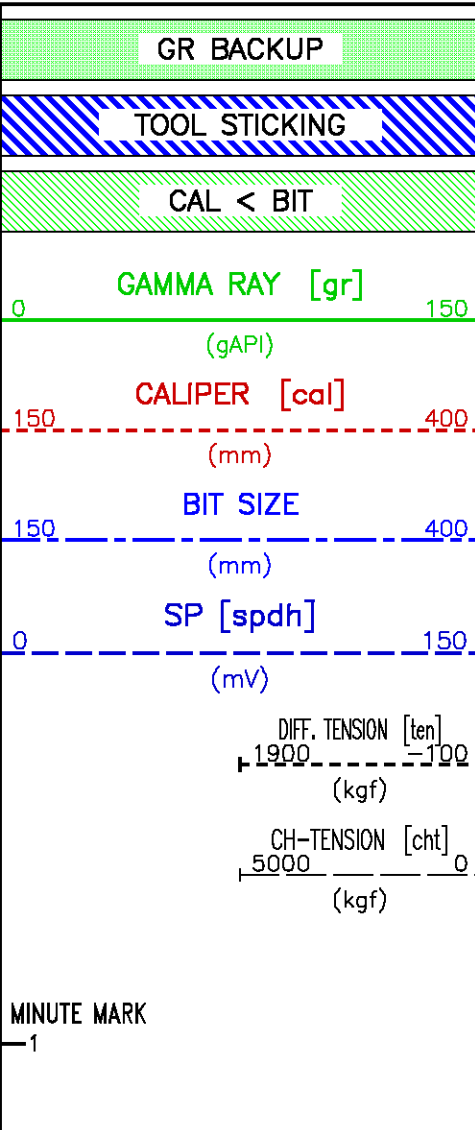
HDIL PROCESSING				
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
HDIL TEMPERATURE CORRECTION	TEMP CORRECTION	ON		TOP BOTTOM
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		" "
	ABC to CALCULATE	BOREHOLE SIZE		" "
	STANDOFF	38.10	mm	" "
	TOOL POSITION	ECCENTERED		" "
	Rmud MULTIPLIER	1.000		" "

CURVE DESCRIPTION REPORT		
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:BIT	Nov 27 20:22:40 2010	BIT SIZE
F1:CAL	Nov 27 20:22:40 2010	CALIPER
F1:CHT	Nov 27 20:22:40 2010	CABLE HEAD TENSION
F1:GR	Nov 27 20:22:40 2010	GAMMA RAY
F1:M2R1	Nov 27 20:22:40 2010	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 10-INCH DOI
F1:M2R2	Nov 27 20:22:40 2010	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 20-INCH DOI
F1:M2R3	Nov 27 20:22:40 2010	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 30-INCH DOI
F1:M2R6	Nov 27 20:22:40 2010	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 60-INCH DOI
F1:M2R9	Nov 27 20:22:40 2010	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 90-INCH DOI
F1:MDTMP	Nov 27 20:22:40 2010	MUD TEMPERATURE
F1:MMRK	Nov 27 20:22:40 2010	MINUTE MARK
F1:SPDH	Nov 27 20:22:40 2010	SPONTANEOUS POTENTIAL PROCESSED IN COMMON REMOTE
F1:TEN	Nov 27 20:22:40 2010	DIFFERENTIAL TENSION

CURVE MEASURE POINT OFFSET							
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	GR	15.70	M2R3	0.84	SPDH	0.38
CAL	5.52	M2R1	0.84	M2R6	0.84	TEN	0.00
CHT	0.00	M2R2	0.84	M2R9	0.84		

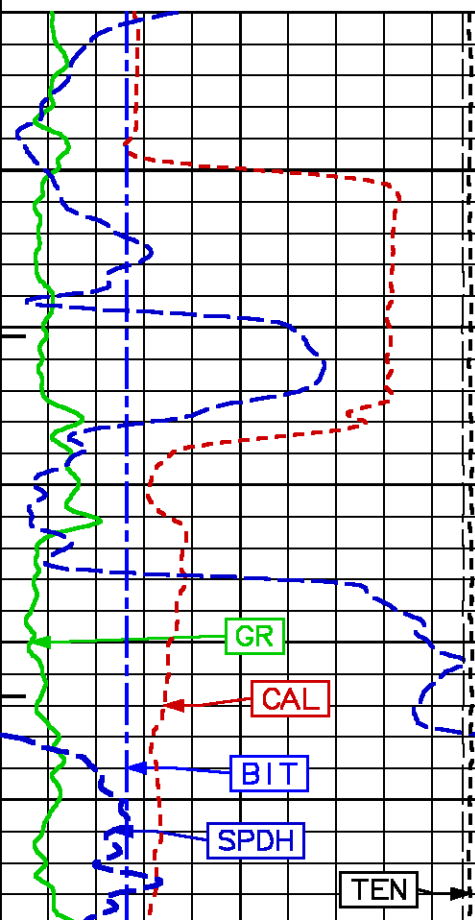
Presentation : cpu1:/dat1a/pass/nalcor_finn_run2/fhdil_main.pdf [1:240 Scale]
 Plot Interval : 2270 - 3023.84 Meters

Data File 1 : F1 : cpu1:/dat1a/pass/nalcor_finn_run2/r2t2_main.xtf
 Created On : Nov 27 20:22:40 2010
 Company : NALCOR ENERGY
 Well : NALCOR ET AL FINNEGAN 1
 Field : FINNEGAN
 File Interval : 2221.92 - 3023.84 Meters

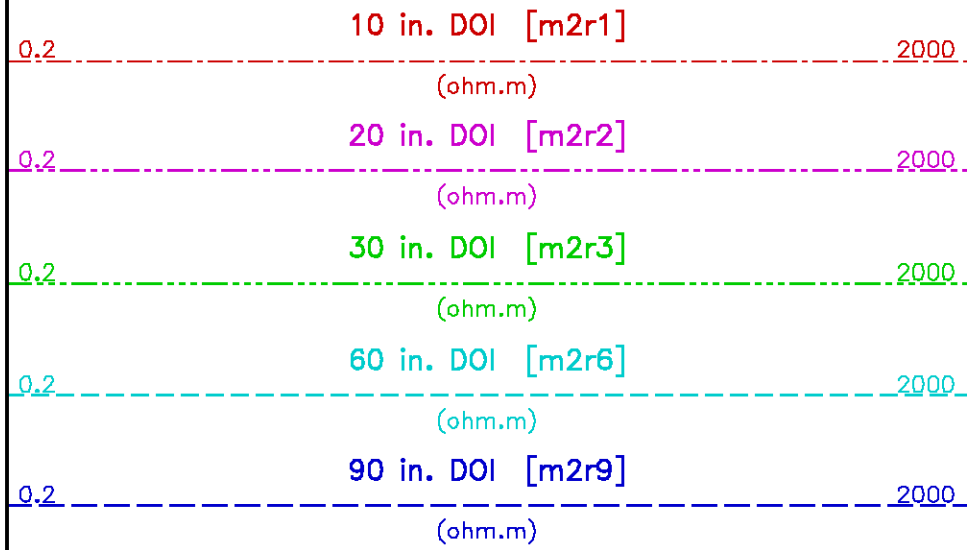


METERS

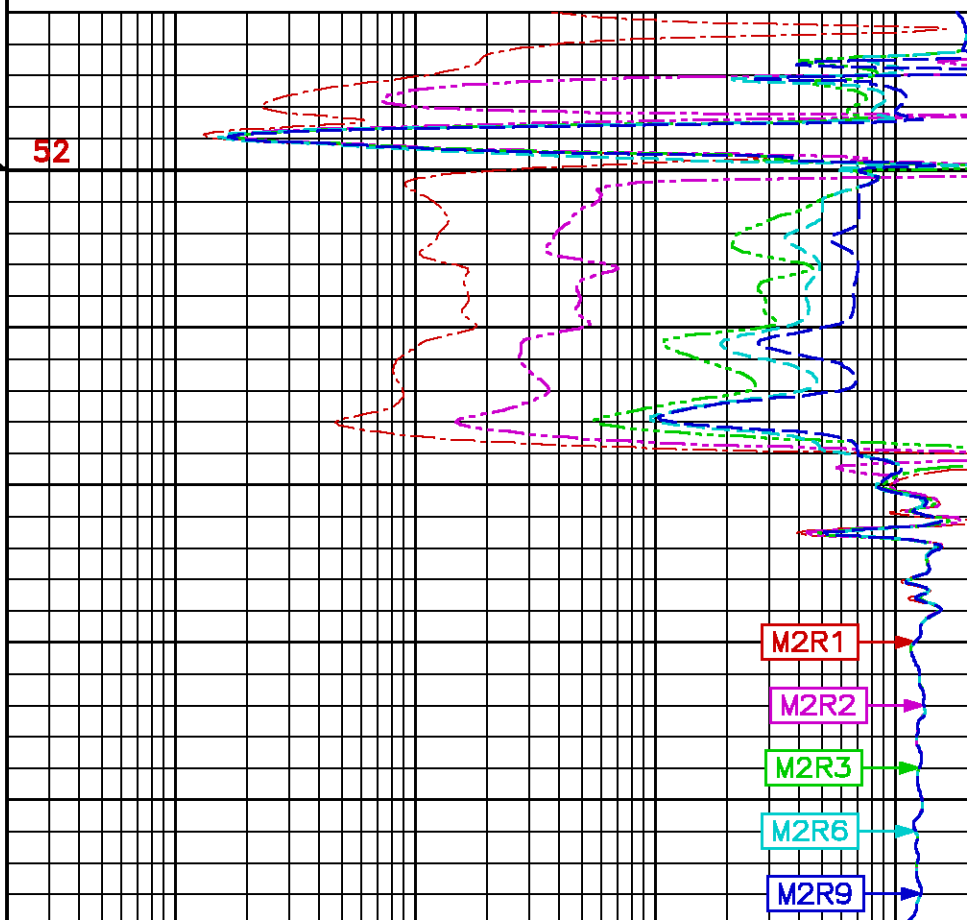
2275
SG

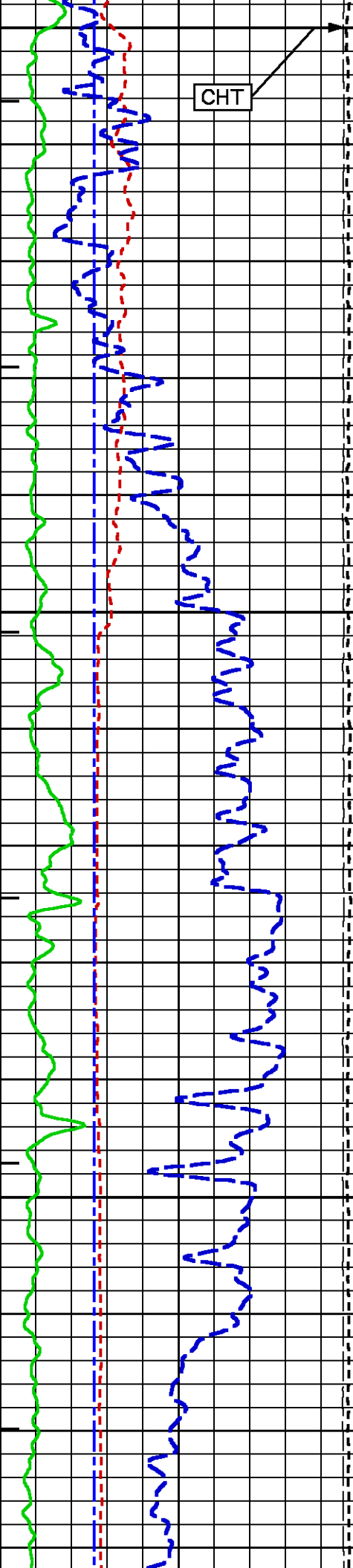


2FT. Matched Resolution Resistivity



BHT
(degC)





2300

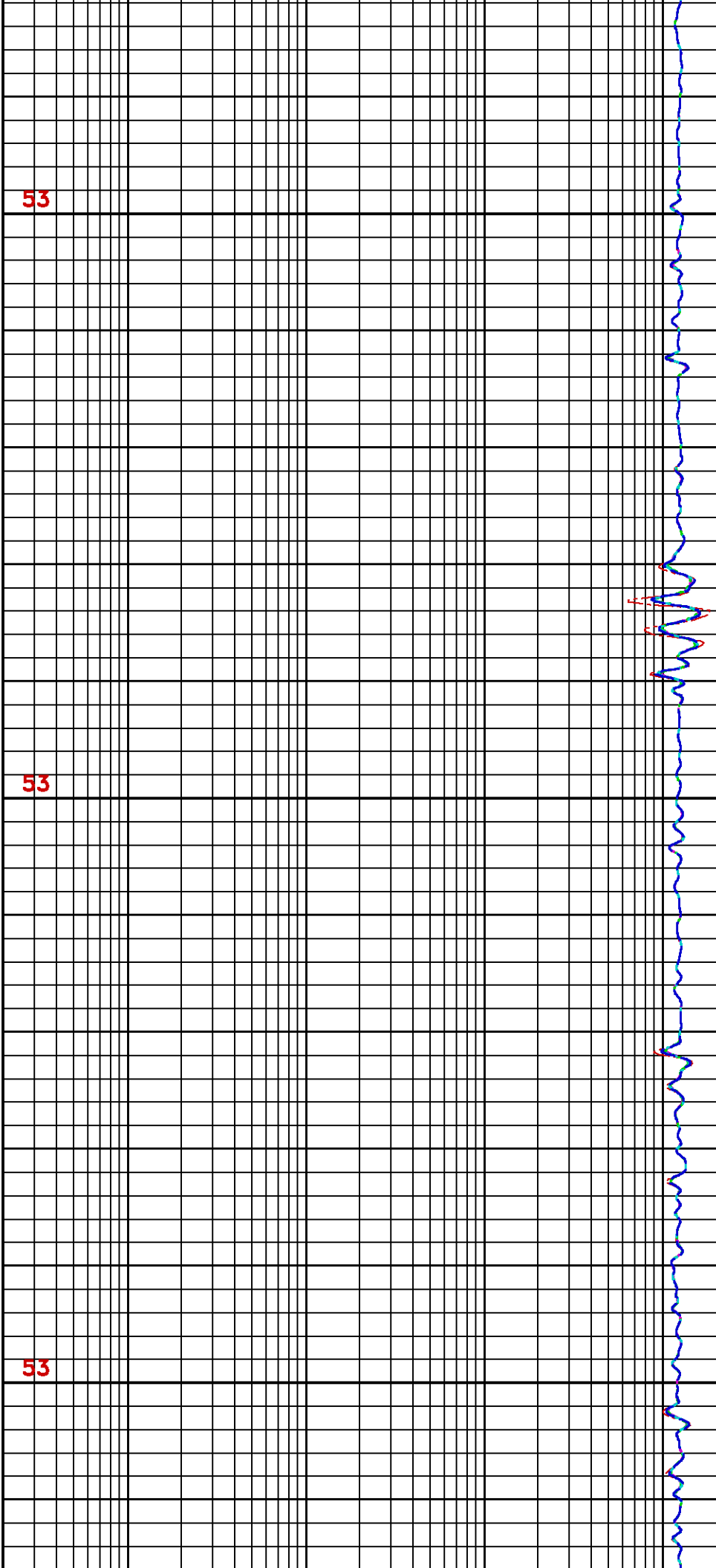
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2350

52

52

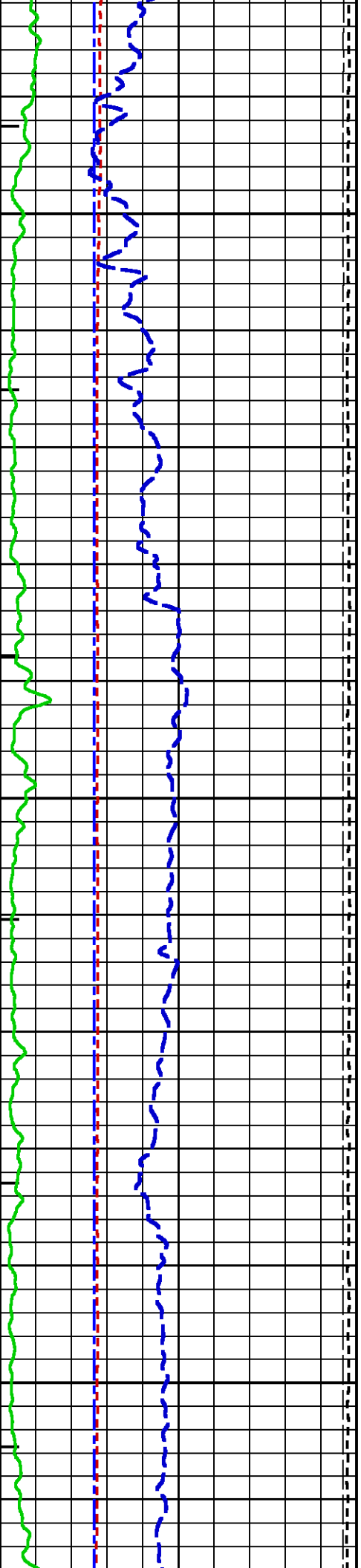
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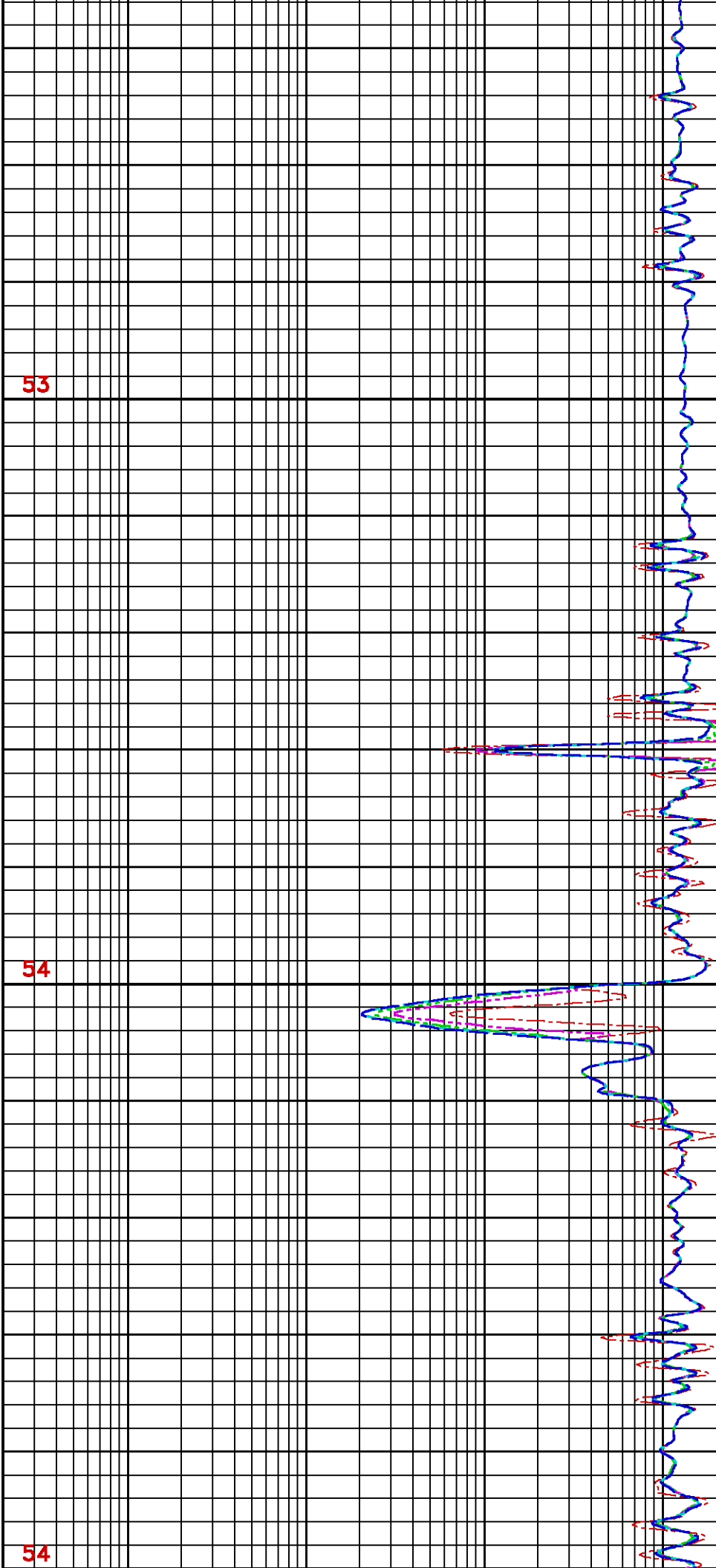


2375

2400

2425

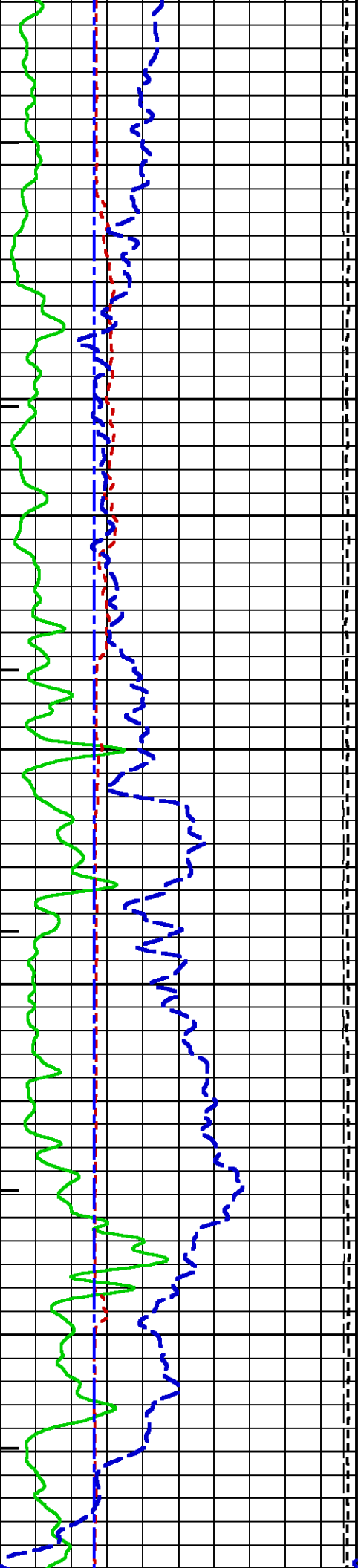


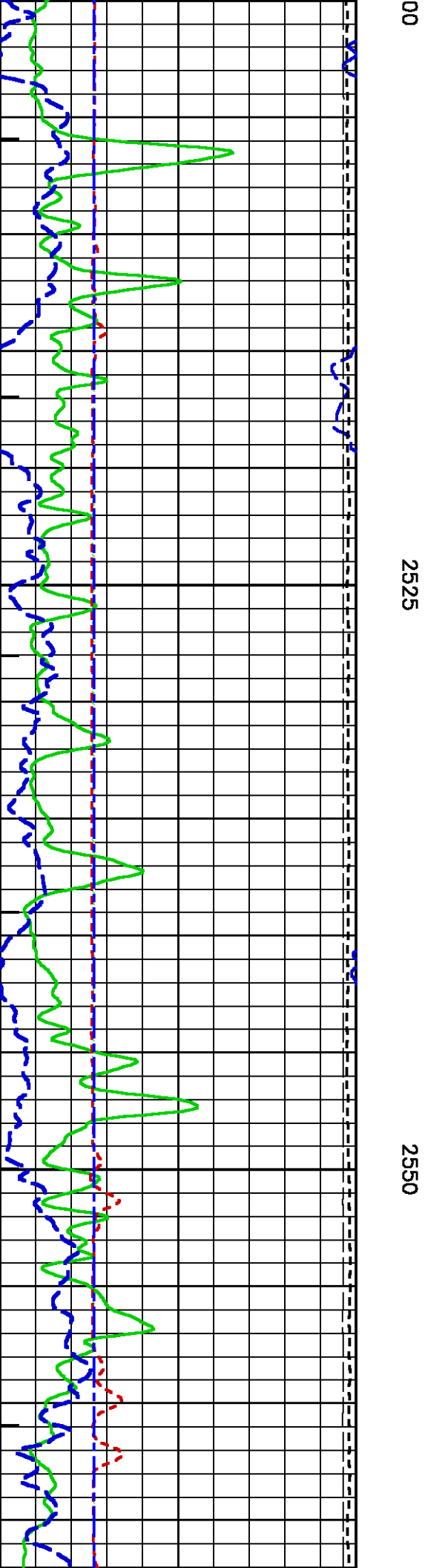
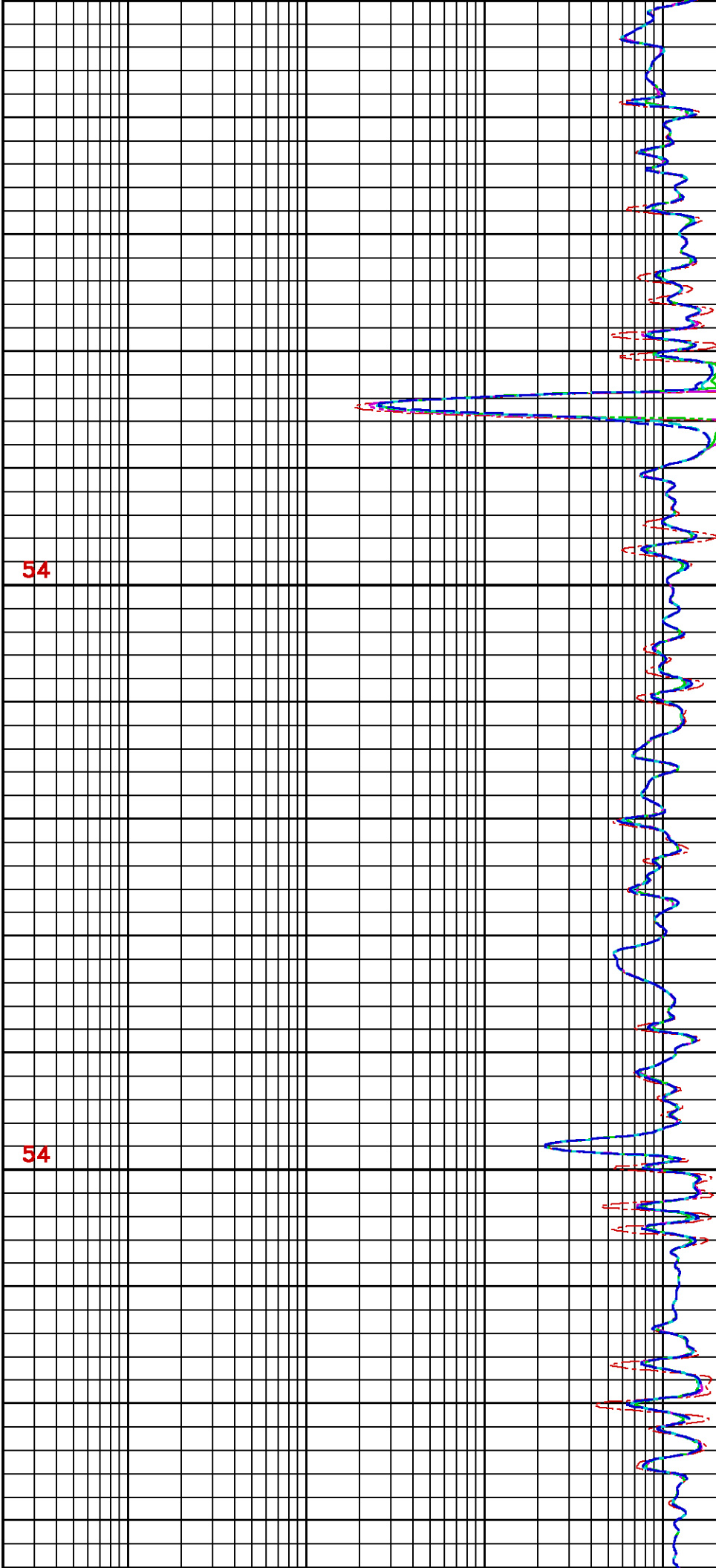


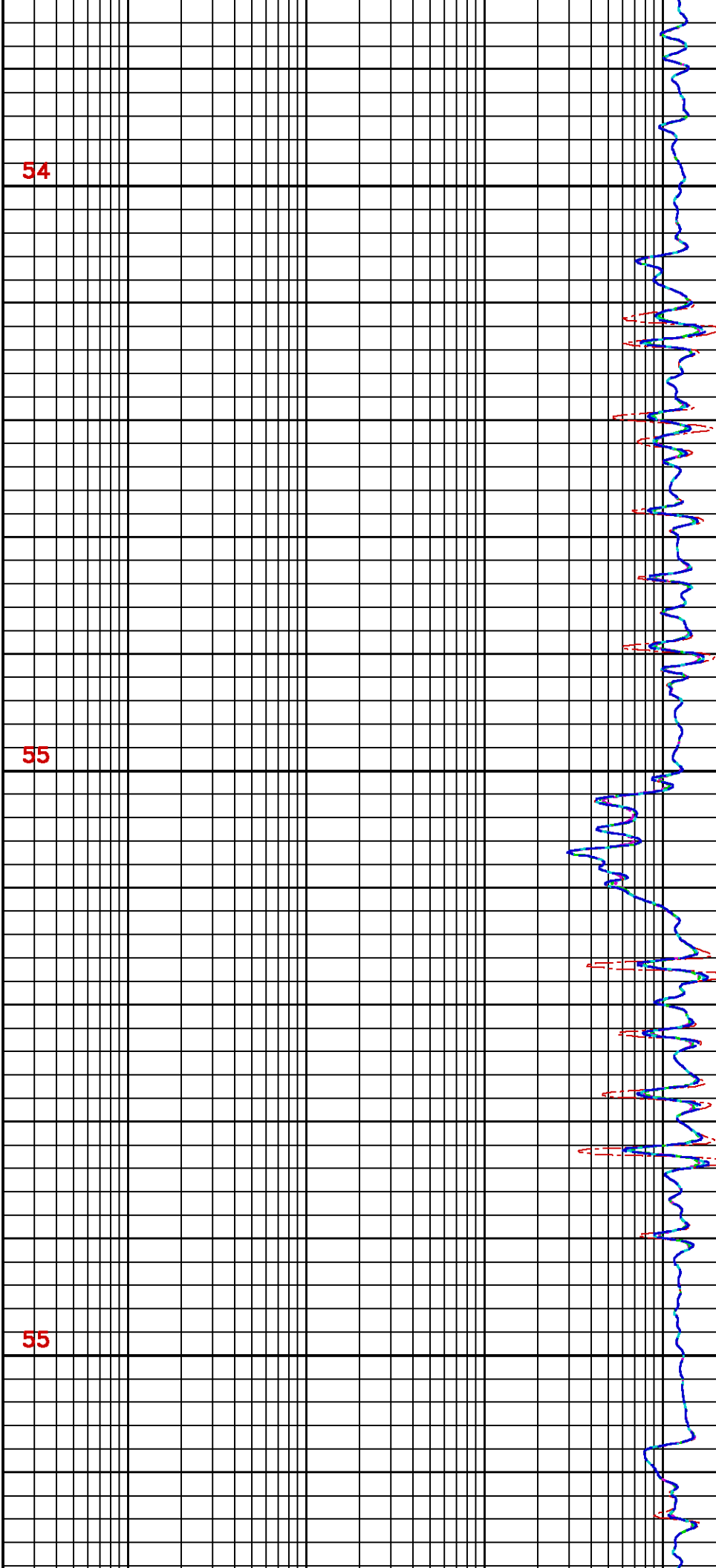
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2475

25



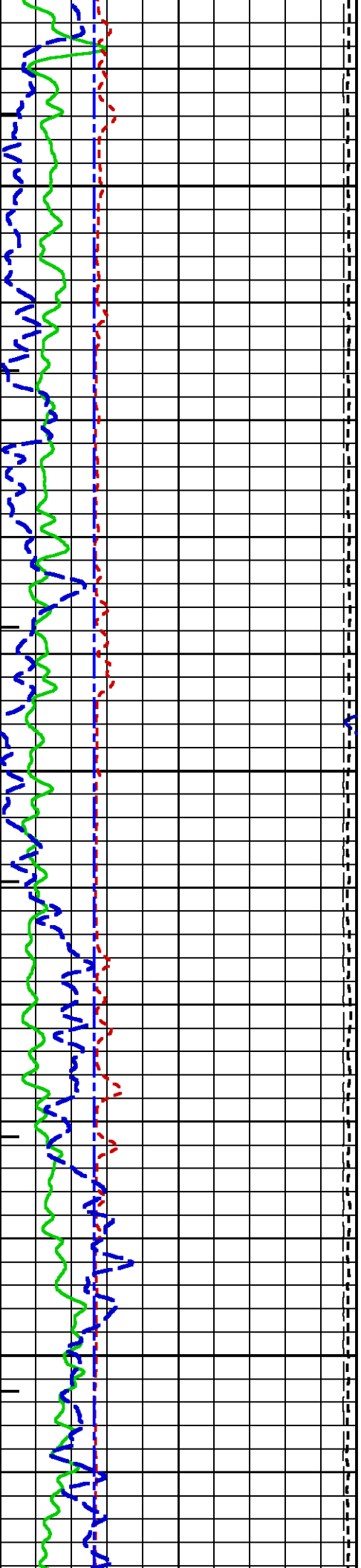


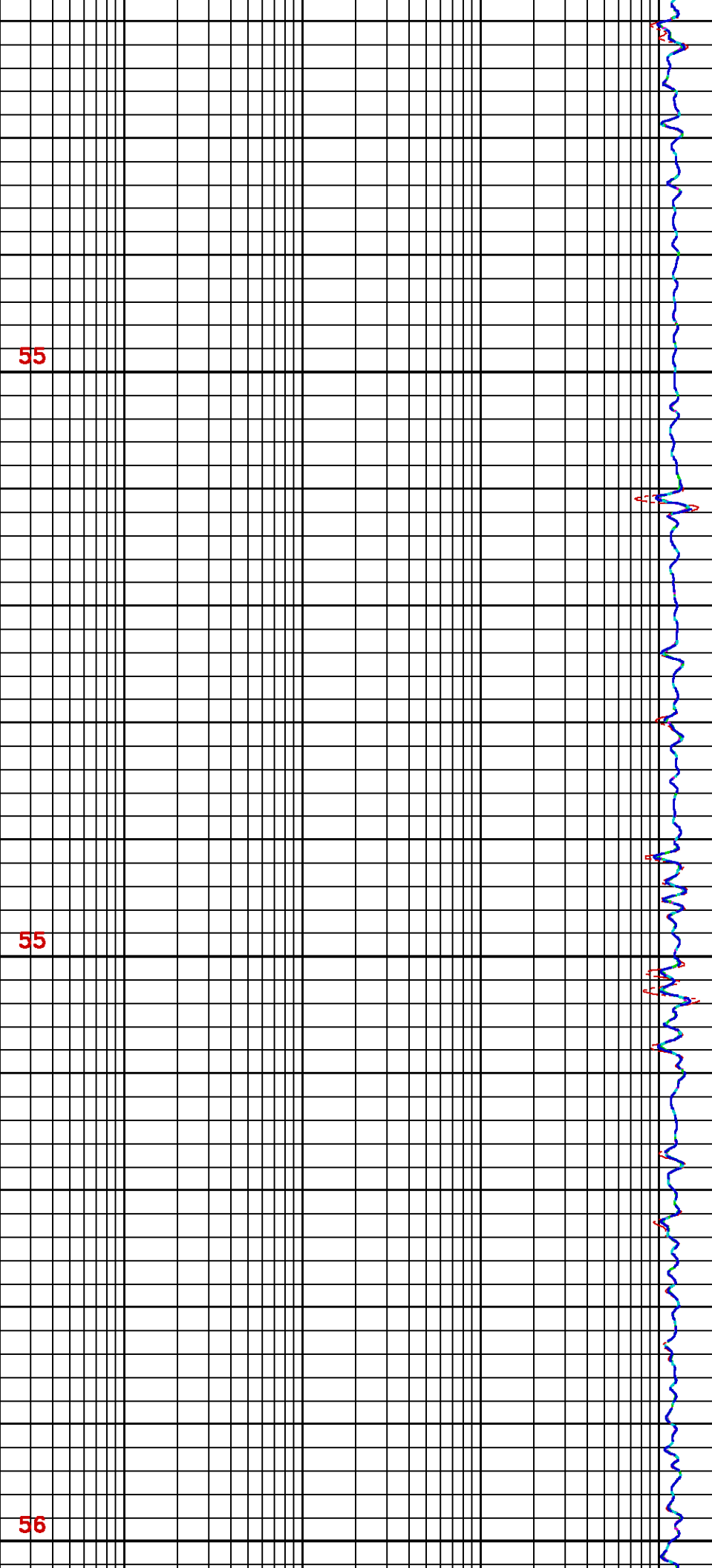


2575

2600

2625

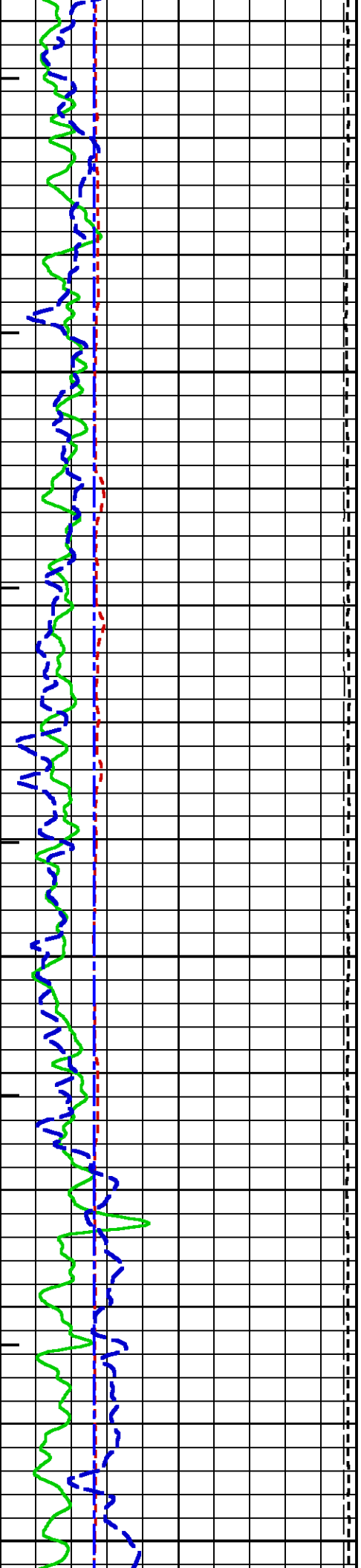


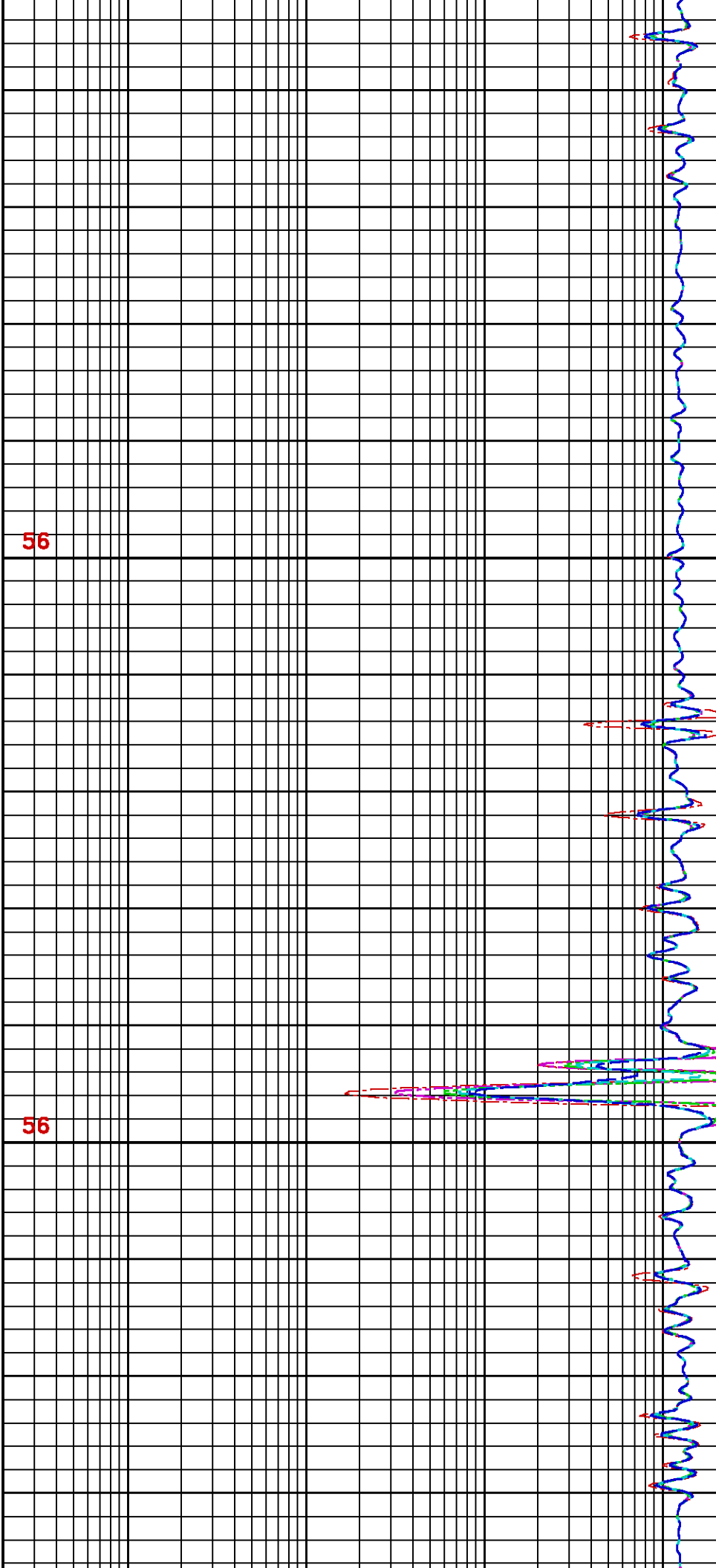


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2675

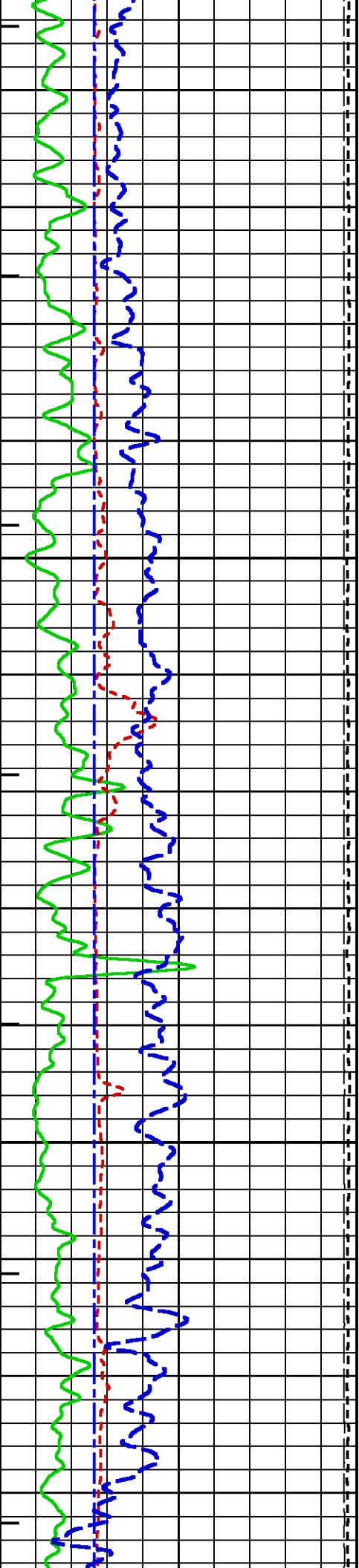
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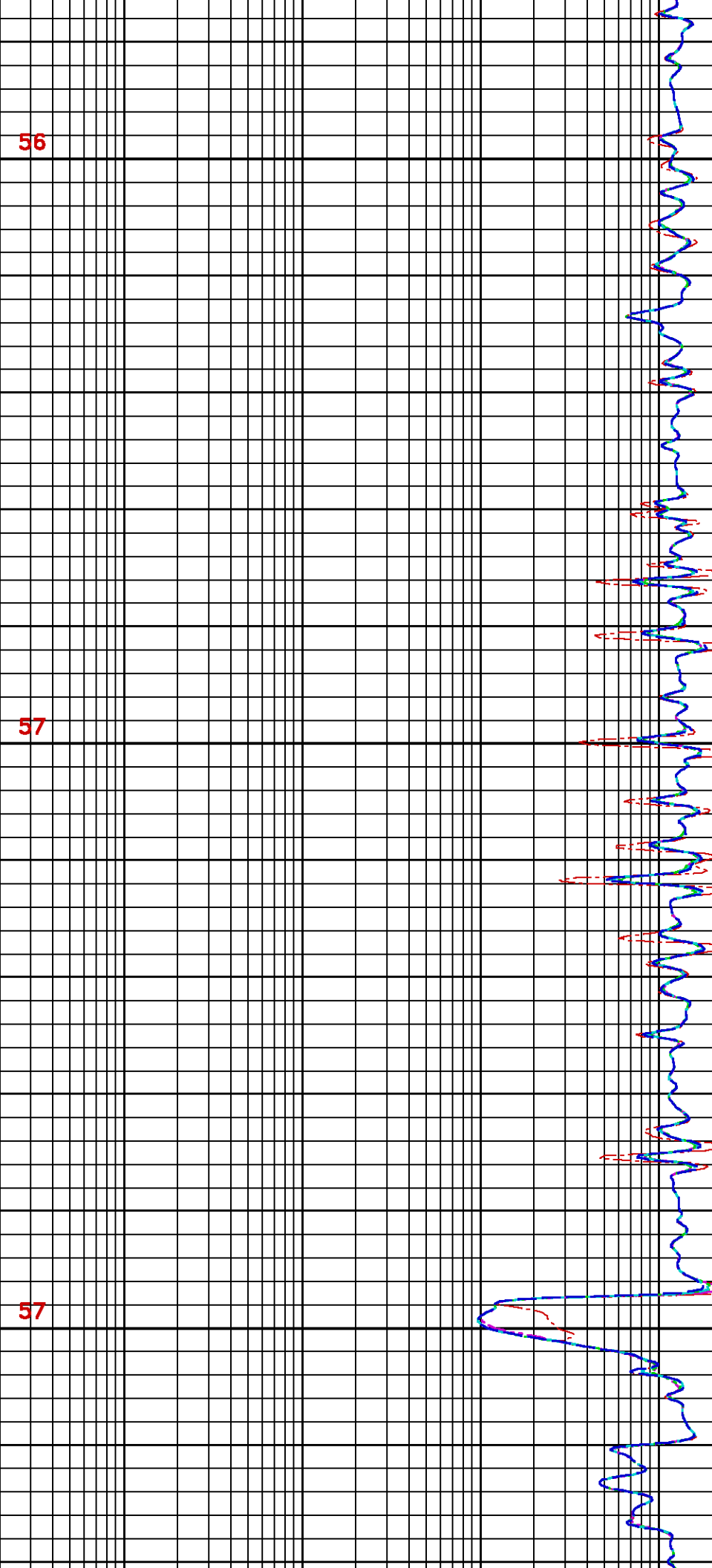




2725

2750

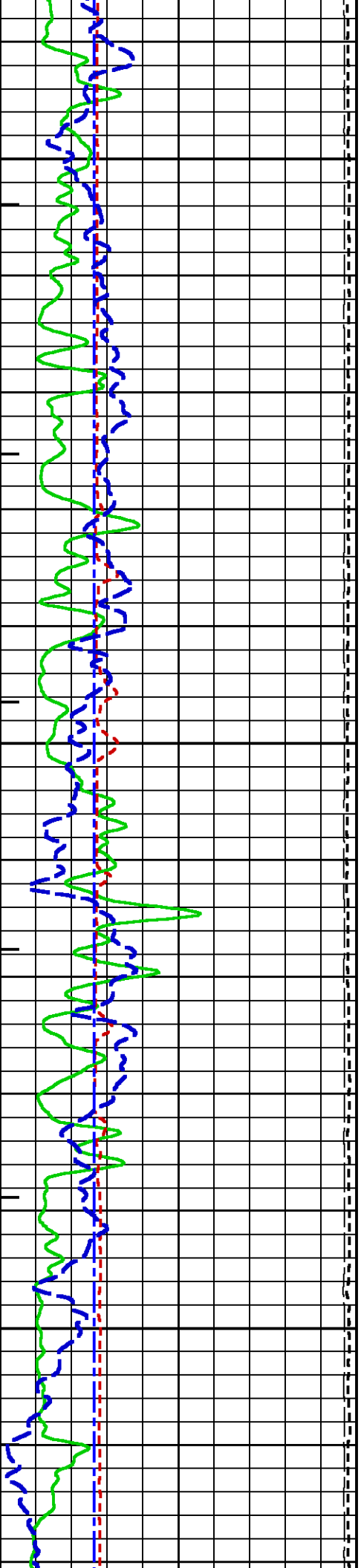


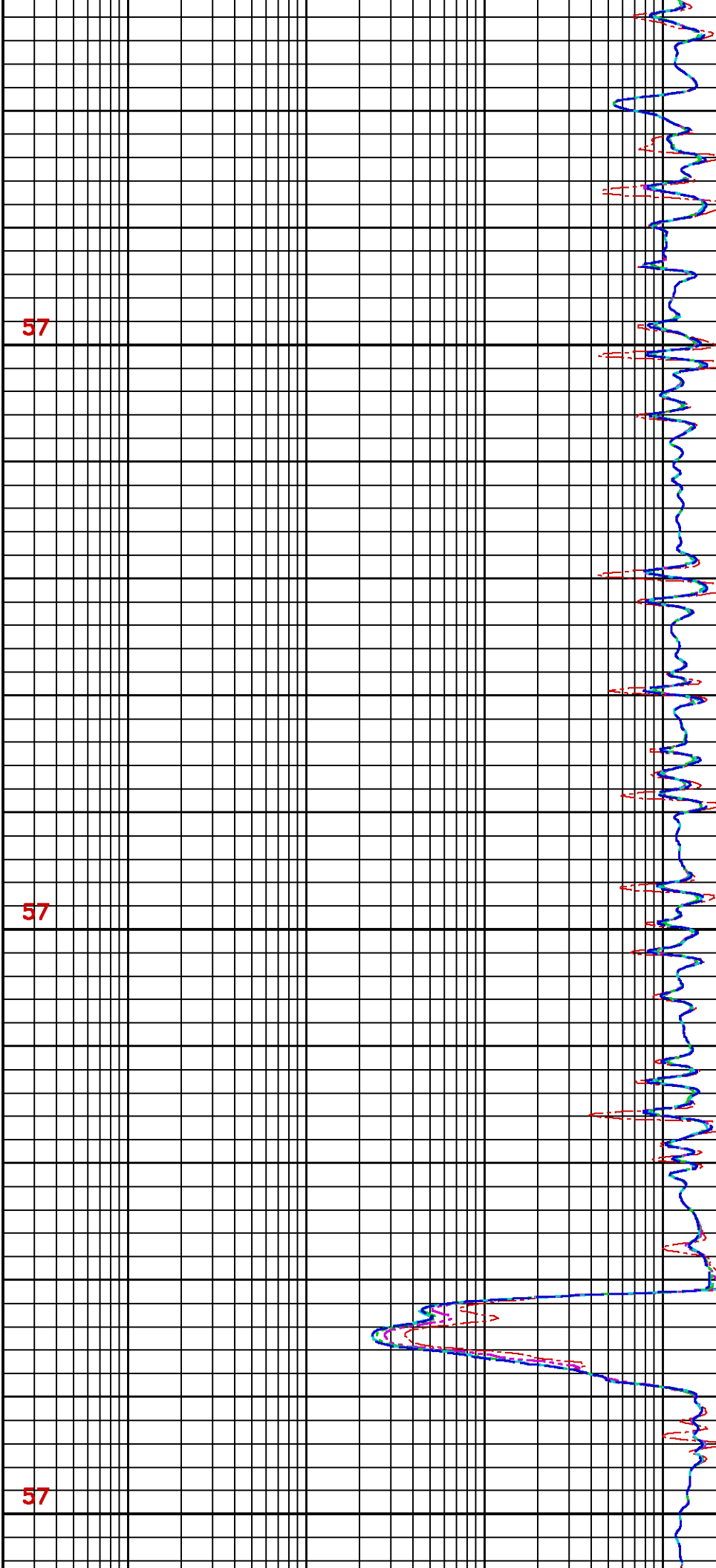


2775

2800

2825

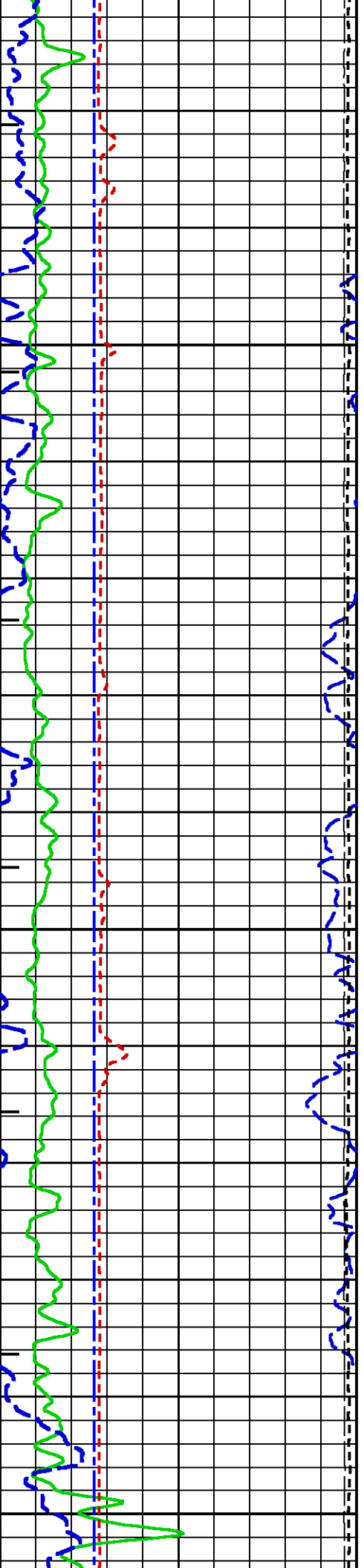


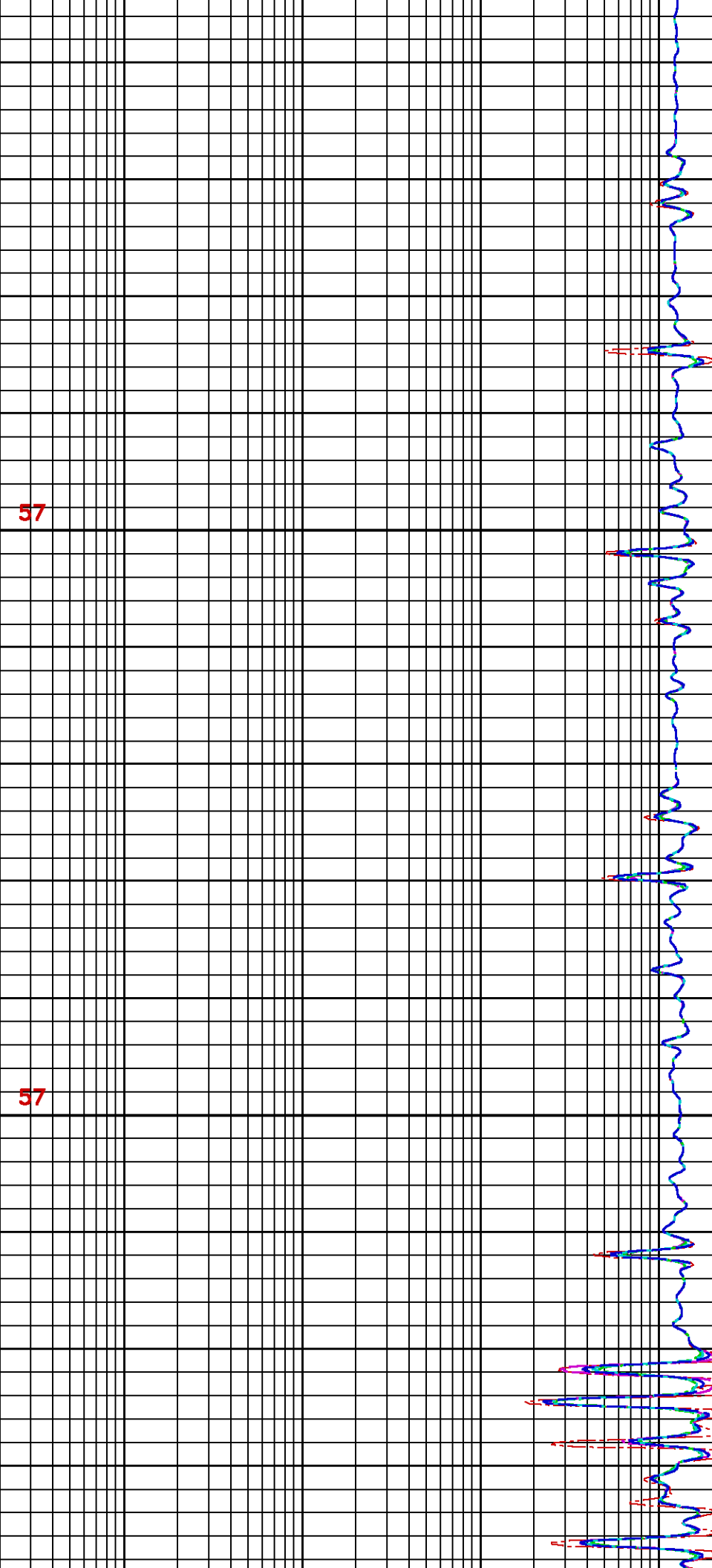


2850

2875

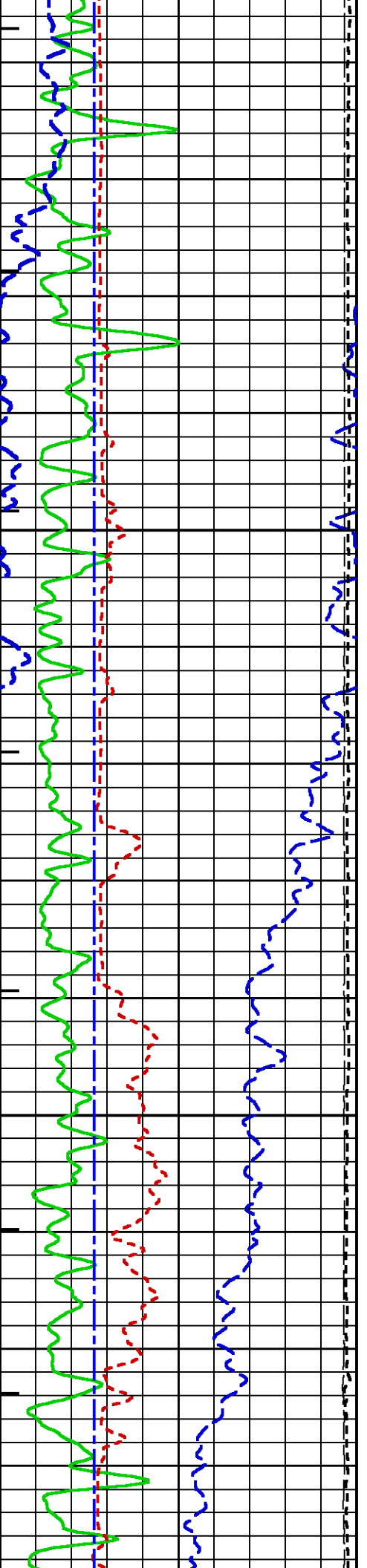
2900

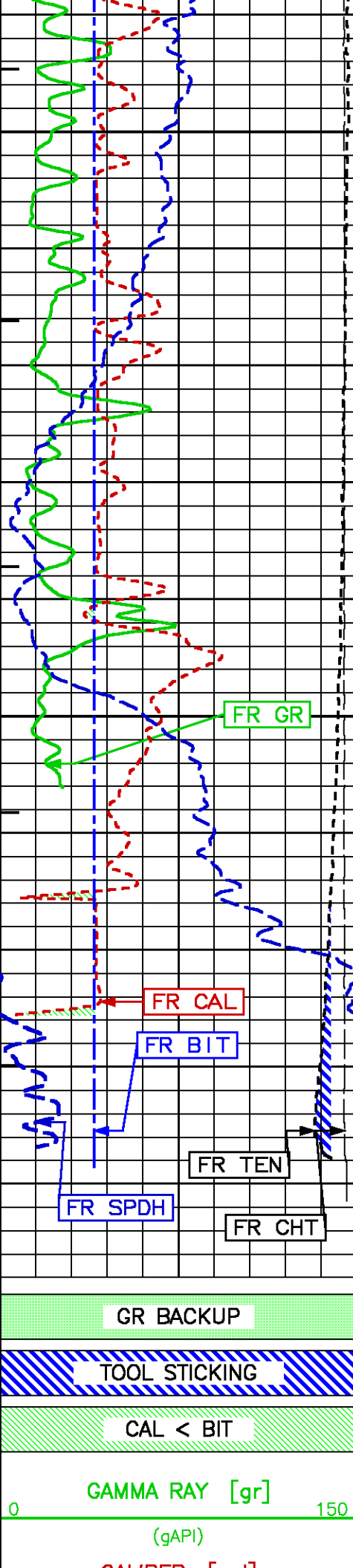




2925

2950

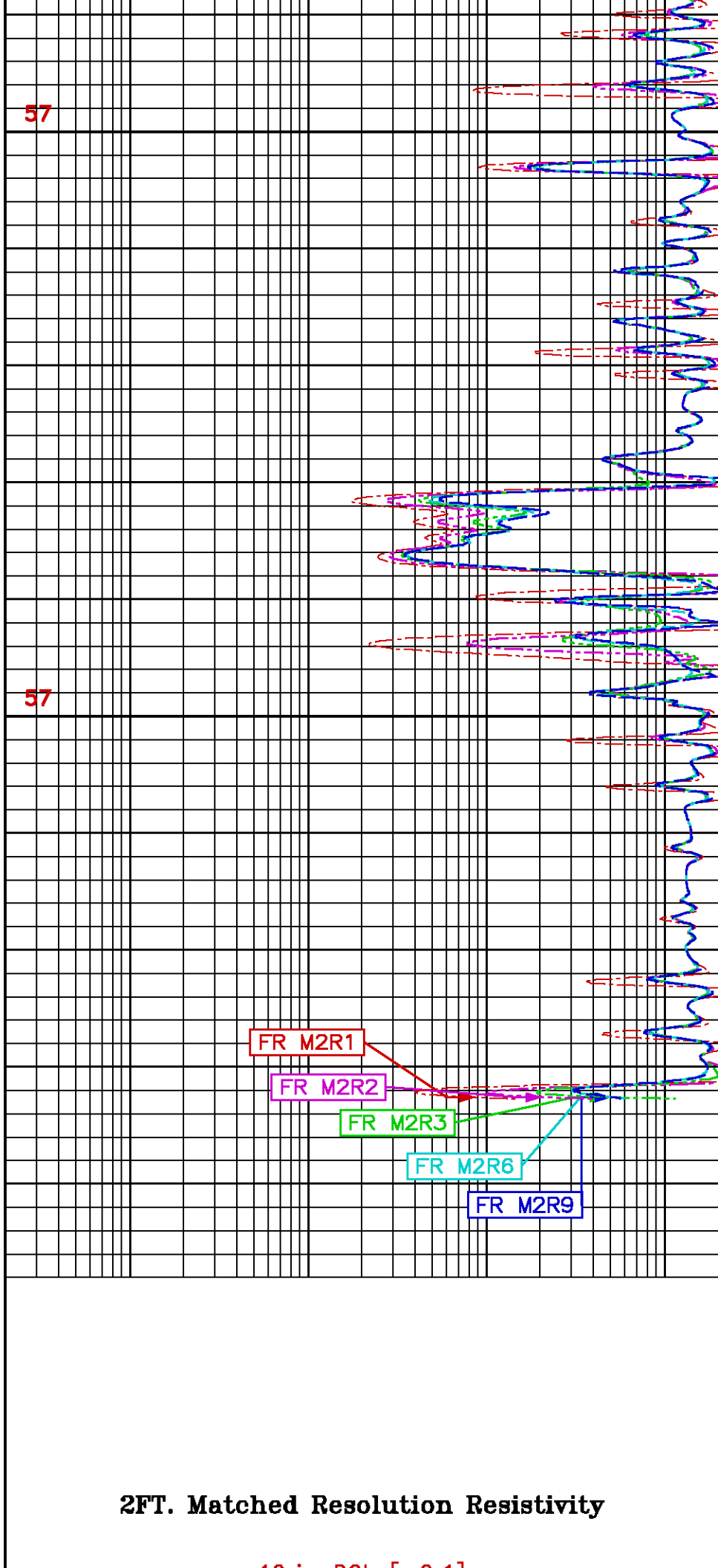


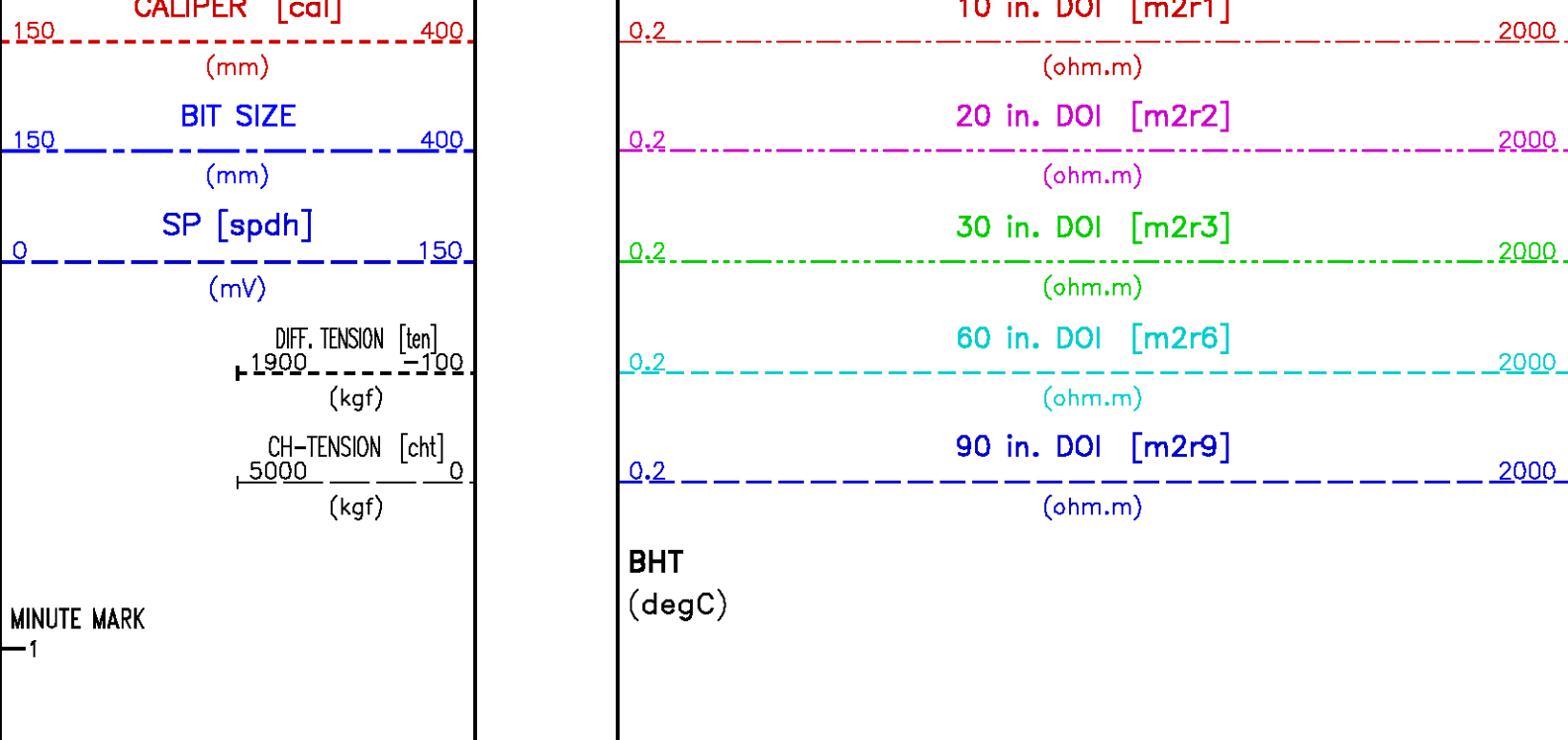


2975

3000

METERS





REPEAT LOG

ECLIPS 6.11 Aug 06, 2010
Patches: 1

Sat Nov 27 22:31:12 2010

Pcrplt /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.50

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pass/nalcor_finn_run2/m970b03.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 2242.668 m BOTTOM DEPTH: 2400.026 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CHT	FILTER ()	medium (1)		TOP	BOTTOM
GR MED RES	FILTER ()	medium (1)		"	"
TENSION	FILTER ()	medium (1)		"	"
SP-SPDH	FILTER ()	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
X-Y COMBINED CALIPER PROCESSING-FOCMYSY	Caliper - FOCUS	Average		TOP	BOTTOM
BIT SIZE	BIT SIZE	216.000	mm	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (mbh*)	216.000	mm	"	"
BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	TOOL MEASURED		"	"
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	47.0	degC	"	"
	MUD SAMPLE RES	0.700	ohm.m	"	"
BOREHOLE TEMP from GRADIENT	Known BH REF TEMP	25.0	degC	"	"
	at BH REF DEPTH	0.0	m	"	"
	with TEMP GRADIENT	2.187	0.01 degC/m	"	"

ACCELERATION PROCESSING

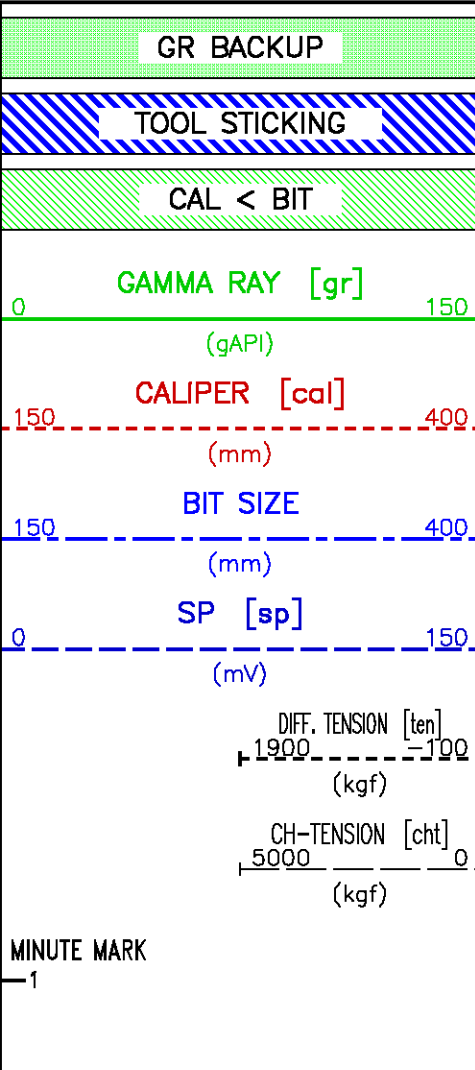
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
ACCEL CORR SWITCH	ACCEL DEPTH CORR	CORRECTION ON		TOP	BOTTOM
HDIL PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
HDIL TEMPERATURE CORRECTION	TEMP CORRECTION	ON		TOP	BOTTOM
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		''	''
	ABC to CALCULATE	STANDOFF		''	''
	STANDOFF	38.10	mm	''	''
	TOOL POSITION	ECCENTERED		''	''
	Rmud MULTIPLIER	1.000		''	''
PARAMETER AND FILTER SUMMARY REPORT					
FILE: /data/pass/nalcor_finn_run2/m970bR01.prm					
LOGGING MODE: DEPTH DIRECTION: UP					
TOP DEPTH: 2242.668 m BOTTOM DEPTH: 2400.026 m					
SYMMETRIC FILTER					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CHT	FILTER ()	medium (1)		TOP	BOTTOM
GR MED RES	FILTER ()	medium (1)		''	''
TENSION	FILTER ()	medium (1)		''	''
SP-SPDH	FILTER ()	medium (1)		''	''
BOREHOLE & CEMENT					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
X-Y COMBINED CALIPER PROCESSING-FOCM5Y	Caliper - FOCUS	Average		TOP	BOTTOM
BIT SIZE	BIT SIZE	216.000	mm	''	''
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		''	''
BOREHOLE CORR DIAMETER	FIXED DIAMETER (mbh*)	216.000	mm	''	''
BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	BH TEMP DERIVED		''	''
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	47.0	degC	''	''
	MUD SAMPLE RES	0.700	ohm.m	''	''
BOREHOLE TEMP from GRADIENT	Known BH REF TEMP	50.0	degC	''	''
	at BH REF DEPTH	2390.0	m	''	''
	with TEMP GRADIENT	2.187	0.01 degC/m	''	''
ACCELERATION PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
ACCEL CORR SWITCH	ACCEL DEPTH CORR	CORRECTION ON		TOP	BOTTOM
HDIL PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
HDIL TEMPERATURE CORRECTION	TEMP CORRECTION	ON		TOP	BOTTOM
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		''	''
	ABC to CALCULATE	BOREHOLE SIZE		''	''
	STANDOFF	38.10	mm	''	''
	TOOL POSITION	ECCENTERED		''	''
	Rmud MULTIPLIER	1.000		''	''
CURVE DESCRIPTION REPORT					
CURVE NAME	CREATION DATE	CURVE DESCRIPTION			
F1:BIT	Nov 27 19:31:37 2010	BIT SIZE			
F1:CAL	Nov 27 19:31:37 2010	CALIPER			
F1:CHT	Nov 27 19:31:37 2010	CABLE HEAD TENSION			
F1:GR	Nov 27 19:31:37 2010	GAMMA RAY			
F1:M2R1	Nov 27 19:31:37 2010	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 10-INCH DOI			
F1:M2R2	Nov 27 19:31:37 2010	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 20-INCH DOI			
F1:M2R3	Nov 27 19:31:37 2010	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 30-INCH DOI			
F1:M2R6	Nov 27 19:31:37 2010	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 60-INCH DOI			
F1:M2R9	Nov 27 19:31:37 2010	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 90-INCH DOI			
F1:MMRK	Nov 27 19:31:37 2010	MINUTE MARK			
F1:SP	Nov 27 19:31:37 2010	SPONTANEOUS POTENTIAL			
F1:TEN	Nov 27 19:31:37 2010	DIFFERENTIAL TENSION			

CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	GR	15.70	M2R3	0.84	SP	0.38
CAL	5.52	M2R1	0.84	M2R6	0.84	TEN	0.00
CHT	0.00	M2R2	0.84	M2R9	0.84		

Presentation : cpu1:/dat1a/pass/nalcor_flnn_run2/fhdll_rpt.pdf [1:240 Scale]
 Plot Interval : 2270 - 2405.71 Meters

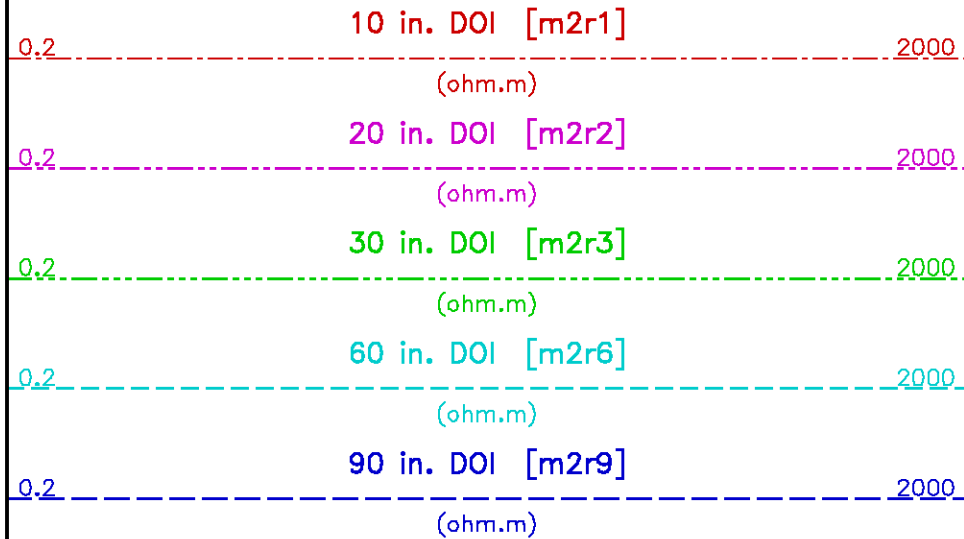
Data File 1 : F1 : cpu1:/dat1a/pass/nalcor_flnn_run2/r2t2_rpt.xtf
 Created On : Nov 27 19:31:37 2010
 Company : NALCOR ENERGY
 Well : NALCOR ET AL FINNEGAN 1
 Field : FINNEGAN
 File Interval : 2227.55 - 2405.71 Meters
 Oct : m970b

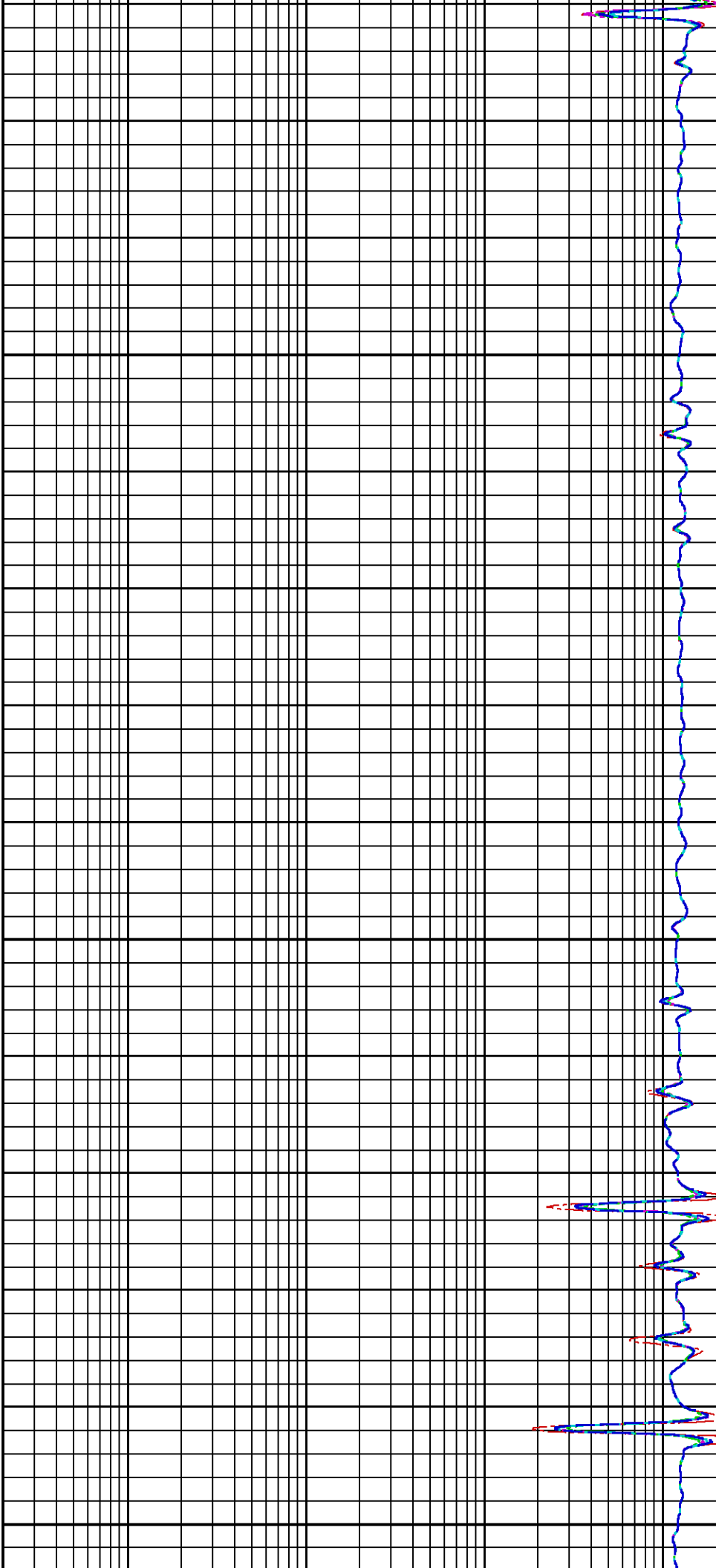


METERS

2275

2FT. Matched Resolution Resistivity

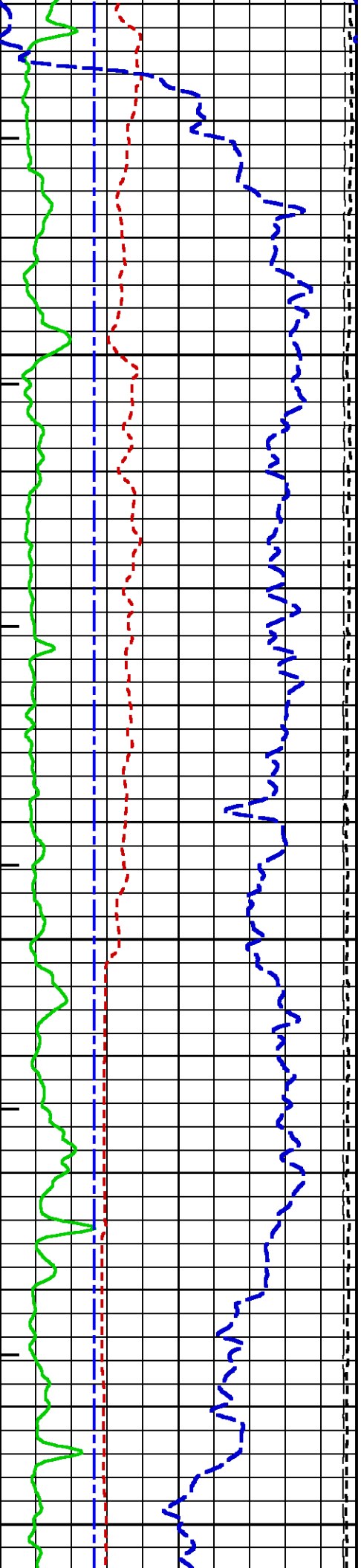


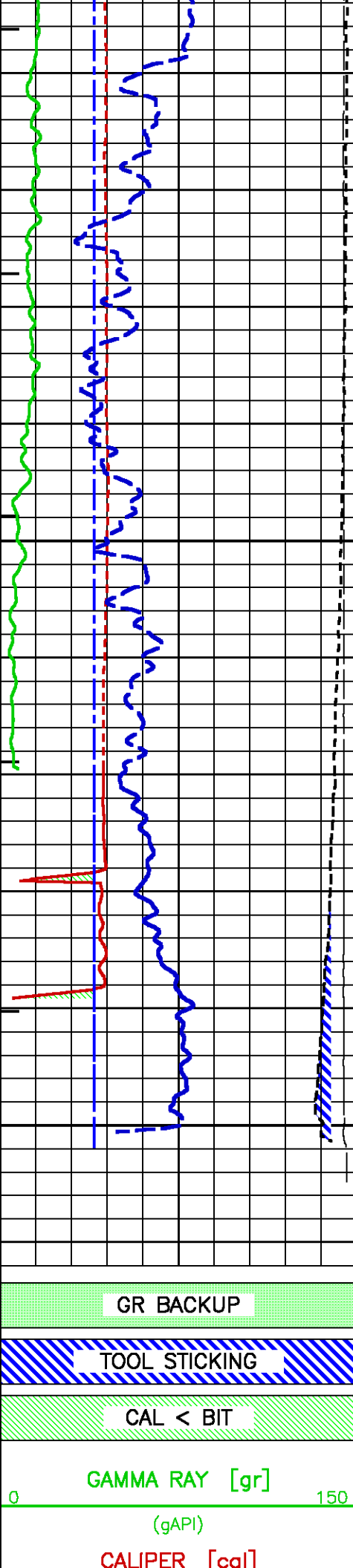


2300

2325

2350

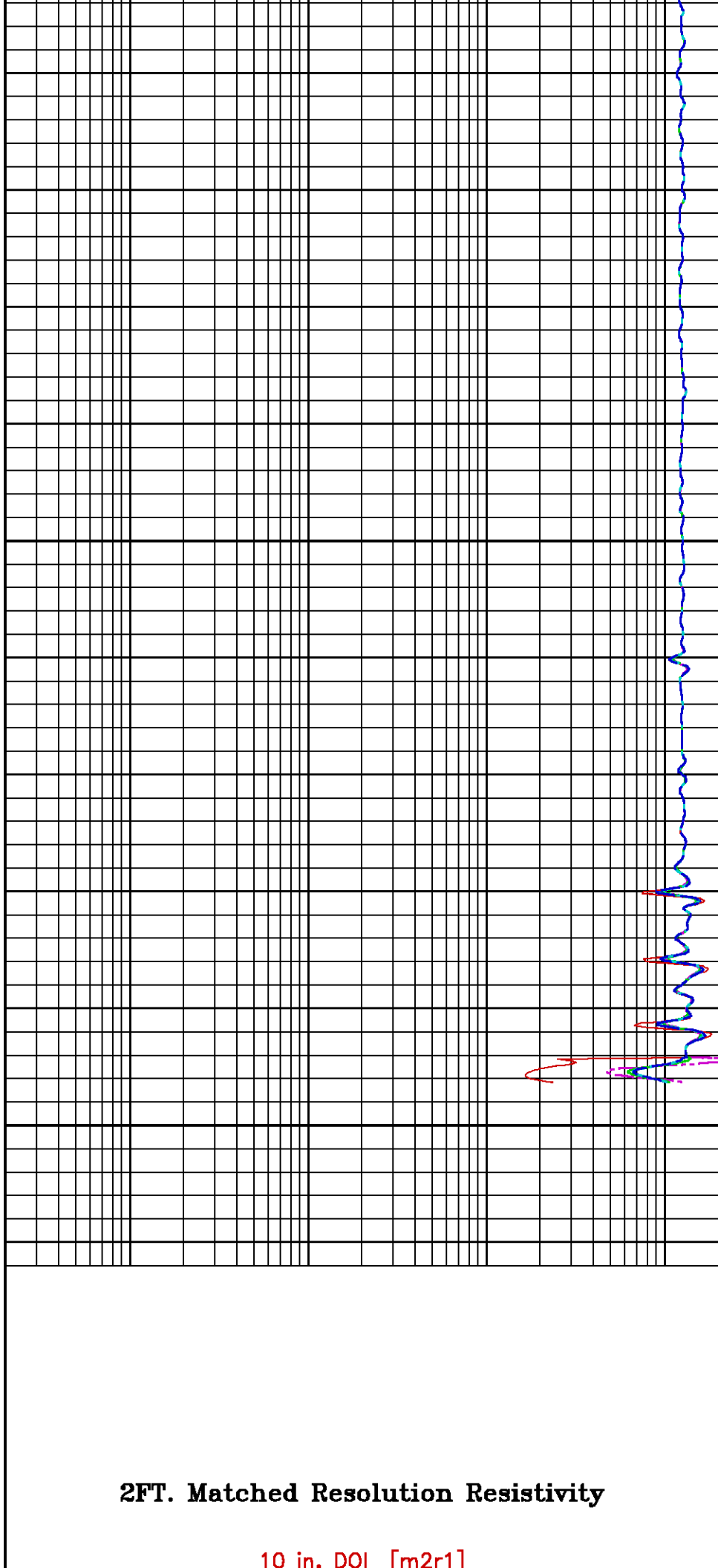




2375

2400

METERS



150	BIT SIZE	400	0.2	20 in. DOI [m2r2]	2000
150	(mm)	400	0.2	(ohm.m)	2000
0	SP [sp]	150	0.2	30 in. DOI [m2r3]	2000
	(mV)		0.2	(ohm.m)	2000
	DIFF. TENSION [ten]	1900	0.2	60 in. DOI [m2r6]	2000
	(kgf)	100	0.2	(ohm.m)	2000
	CH-TENSION [cht]	5000	0.2	90 in. DOI [m2r9]	2000
	(kgf)	0		(ohm.m)	
MINUTE MARK					
1					

CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/pass/nalcor_flnn_run2/m970b.tp1

GR PRIMARY CALIBRATION SUMMARY

Tool #: 3518EG 10118926

DATE/TIME PERFORMED: Mon Nov 22 07:18:31 2010

Unit #: 3885TF 004291

Jig Series: 4702NK DA-549

Background	Calibrator ON	Jig Value	Mult	Background	Calibrator ON
(gAPI)	(gAPI)	(gAPI)		(gAPI)	(gAPI)
347.50	1041.63	185	0.267	92.62	277.62
			0.230 0.280		

GR PRIMARY VERIFICATION SUMMARY

NOT DONE

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 3518EG 10118926

DATE/TIME PERFORMED: Sat Nov 27 18:46:24 2010

DAYS SINCE CAL: 5

UNIT #: 3885TF 004291

Jig: INTRNL N/A

Counts	TEMP	HV
(degC)	(V)	
976.67	18.59	1361.74

929.00 1027.00 280.00 1237.00 1512.00

GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 3518EG 10118926 DATE/TIME PERFORMED: Sat Nov 27 21:41:45 2010 DAYS SINCE CAL: 5

UNIT #: 3885TF 004291 Jig: INTRNL N/A

Counts	TEMP (degC)	HV (V)
976.67	44.77	1363.96
929.00 1027.00	280.00	1237.00 1512.00

CAL PRIMARY CALIBRATION SUMMARY

TOOL #: 2223XA 10130454 DATE/TIME PERFORMED: Thu Nov 18 14:44:08 2010

UNIT #: 3885TF 004291

	SIZE (mm)	VALUE	MULTIPLIER	ADD
SMALL RING (Arm)	158.000	1112.0		
LARGE RING (Arm)	307.600	2956.0	0.08113	67.78568
PAD CLOSED		2704.0	0.06350	-171.70399

CAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10130454 DATE/TIME PERFORMED: Sat Nov 27 19:50:05 2010 DAYS SINCE CAL: 9

UNIT #: 3885TF 004291

	VALUE	MULTIPLIER	ADD	SIZE (mm)
ARM	1936.0	0.08113	67.78568	224.8
PAD	2780.0	0.06350	-171.70399	4.8

	ACTUAL (mm)	MEASURED (mm)
DIAMETER (arm+pad)	222.400	229.7
		212.2 232.6

CAL AFTER LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10130454 DATE/TIME PERFORMED: Sat Nov 27 21:36:33 2010 DAYS SINCE CAL: 9

UNIT #: 3885TF 004291

	VALUE	MULTIPLIER	ADD	SIZE (mm)
ARM	1931.2	0.08113	67.78568	224.5
PAD	2779.6	0.06350	-171.70399	4.8

	ACTUAL (mm)	MEASURED (mm)
DIAMETER (arm+pad)	222.400	229.3
		212.2 232.6

CAL[2] PRIMARY CALIBRATION SUMMARY

TOOL #: 2223XA 402526

DATE/TIME PERFORMED: Thu Nov 18 16:27:09 2010

UNIT #: 3885TF 004291

	SIZE (mm)	VALUE	MULTIPLIER	ADD
SMALL RING (Arm)	158.000	1124.0		
LARGE RING (Arm)	307.600	2920.0	0.08330	64.37505
PAD CLOSED		1986.4	0.06350	-126.13640

CAL[2] BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2223XA 402526

DATE/TIME PERFORMED: Sat Nov 27 19:48:59 2010

DAYS SINCE CAL: 9

UNIT #: 3885TF 004291

	VALUE	MULTIPLIER	ADD	SIZE (mm)
ARM	1896.0	0.08330	64.37505	222.3
PAD	2044.0	0.06350	-126.13640	3.7

	ACTUAL (mm)	MEASURED (mm)
DIAMETER (arm+pad)	222.400	226.0
		212.2 232.6

CAL[2] AFTER LOG VERIFICATION SUMMARY

TOOL #: 2223XA 402526 DATE/TIME PERFORMED: Sat Nov 27 21:36:27 2010 DAYS SINCE CAL: 9

UNIT #: 3885TF 004291

	VALUE	MULTIPLIER	ADD	SIZE (mm)
ARM	1919.6	0.08330	64.37505	224.3
PAD	1886.8	0.06350	-126.13640	-6.3

	ACTUAL (mm)	MEASURED (mm)
DIAMETER (arm+pad)	222.400	217.9
		212.2 232.6

HDIL PRIMARY CALIBRATION SUMMARY

TOOL #: 1530XA 10111044

DATE/TIME PERFORMED: Sun Jun 6 14:34:12 2010

UNIT #: 3885TF 004291

GRCOND ID & DATE: Nisku 52208

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	-0.0016 -0.2000 0.2000	0.0005 -0.1000 0.1000	-0.0011 -0.1000 0.1000	-0.0006 -0.1000 0.1000	0.0007 -0.1000 0.1000	0.0004 -0.1000 0.1000	-0.0000 -0.1000 0.1000	-0.0005 -0.1000 0.1000
Coil 0 Q	-0.0026 -0.5000 0.5000	0.0004 -0.2000 0.2000	0.0002 -0.1000 0.1000	-0.0000 -0.1000 0.1000	0.0000 -0.1000 0.1000	-0.0004 -0.1000 0.1000	0.0003 -0.1000 0.1000	-0.0001 -0.1000 0.1000
Coil 1 R	-0.0061 -0.2000 0.2000	0.0008 -0.1000 0.1000	0.0001 -0.1000 0.1000	0.0005 -0.1000 0.1000	0.0013 -0.1000 0.1000	-0.0004 -0.1000 0.1000	-0.0013 -0.1000 0.1000	0.0021 -0.1000 0.1000
Coil 1 Q	-0.0085 -0.5000 0.5000	0.0008 -0.2000 0.2000	-0.0009 -0.1000 0.1000	0.0012 -0.1000 0.1000	-0.0005 -0.1000 0.1000	-0.0012 -0.1000 0.1000	-0.0003 -0.1000 0.1000	0.0005 -0.1000 0.1000
Coil 2 R	-0.0015 -0.2000 0.2000	-0.0015 -0.1000 0.1000	-0.0005 -0.1000 0.1000	-0.0023 -0.1000 0.1000	-0.0008 -0.1000 0.1000	-0.0008 -0.1000 0.1000	-0.0009 -0.1000 0.1000	0.0004 -0.1000 0.1000
Coil 2 Q	-0.0075 -0.5000 0.5000	0.0028 -0.2000 0.2000	0.0001 -0.1000 0.1000	0.0016 -0.1000 0.1000	-0.0018 -0.1000 0.1000	-0.0011 -0.1000 0.1000	0.0004 -0.1000 0.1000	-0.0002 -0.1000 0.1000
Coil 3 R	0.0010 -0.3000 0.3000	-0.0002 -0.1000 0.1000	0.0022 -0.1000 0.1000	-0.0022 -0.1000 0.1000	0.0017 -0.1000 0.1000	-0.0035 -0.1000 0.1000	0.0009 -0.1000 0.1000	0.0002 -0.1000 0.1000
Coil 3 Q	-0.0137 -0.5000 0.5000	0.0039 -0.2000 0.2000	-0.0015 -0.1000 0.1000	-0.0030 -0.1000 0.1000	0.0016 -0.1000 0.1000	-0.0003 -0.1000 0.1000	0.0058 -0.1000 0.1000	-0.0027 -0.1000 0.1000
Coil 4 R	-0.0002 -0.5000 0.5000	0.0038 -0.2000 0.2000	0.0014 -0.2000 0.2000	0.0015 -0.2000 0.2000	0.0069 -0.2000 0.2000	-0.0012 -0.2000 0.2000	-0.0021 -0.2000 0.2000	-0.0026 -0.2000 0.2000
Coil 4 Q	-0.0066 -1.0000 1.0000	0.0031 -0.4000 0.4000	0.0006 -0.2000 0.2000	0.0026 -0.2000 0.2000	0.0018 -0.2000 0.2000	0.0004 -0.2000 0.2000	-0.0061 -0.2000 0.2000	-0.0045 -0.2000 0.2000
Coil 5 R	-0.0286 -1.2000 1.2000	-0.0108 -0.4000 0.4000	-0.0028 -0.4000 0.4000	-0.0010 -0.4000 0.4000	0.0103 -0.4000 0.4000	0.0111 -0.4000 0.4000	-0.0076 -0.4000 0.4000	0.0100 -0.4000 0.4000
Coil 5 Q	-0.0162 -1.5000 1.5000	0.0120 -0.8000 0.8000	-0.0076 -0.4000 0.4000	-0.0067 -0.4000 0.4000	0.0031 -0.4000 0.4000	-0.0018 -0.4000 0.4000	-0.0002 -0.4000 0.4000	-0.0042 -0.4000 0.4000

ELEC. GAINS 10 KHz 30 KHz 50 KHz 70 KHz 90 KHz 110 KHz 130 KHz 150 KHz

Coil 0 M	160.36 136.00 186.00	158.92 134.00 184.00	156.03 131.00 181.00	151.73 126.00 176.00	146.04 122.00 170.00	139.00 118.00 161.00	130.73 112.00 150.00	121.27 105.00 139.00
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Coil 0 P	<div>7.562</div> <div>6.000 9.000</div>	<div>25.331</div> <div>21.000 30.000</div>	<div>42.583</div> <div>35.000 50.000</div>	<div>59.792</div> <div>49.000 71.000</div>	<div>77.002</div> <div>63.000 91.000</div>	<div>94.226</div> <div>77.000 109.000</div>	<div>111.462</div> <div>92.000 130.000</div>	<div>128.691</div> <div>106.000 151.000</div>
Coil 1 M	<div>279.68</div> <div>238.00 328.00</div>	<div>277.15</div> <div>235.00 325.00</div>	<div>272.05</div> <div>230.00 320.00</div>	<div>264.48</div> <div>225.00 312.00</div>	<div>254.49</div> <div>218.00 302.00</div>	<div>242.20</div> <div>208.00 288.00</div>	<div>227.82</div> <div>196.00 266.00</div>	<div>211.36</div> <div>184.00 244.00</div>
Coil 1 P	<div>7.553</div> <div>6.000 9.000</div>	<div>25.344</div> <div>21.000 30.000</div>	<div>42.604</div> <div>35.000 51.000</div>	<div>59.804</div> <div>49.000 71.000</div>	<div>76.994</div> <div>63.000 92.000</div>	<div>94.183</div> <div>78.000 112.000</div>	<div>111.353</div> <div>93.000 130.000</div>	<div>128.485</div> <div>107.000 151.000</div>
Coil 2 M	<div>565.68</div> <div>479.00 659.00</div>	<div>560.76</div> <div>474.00 654.00</div>	<div>550.87</div> <div>465.00 645.00</div>	<div>536.04</div> <div>450.00 622.00</div>	<div>516.52</div> <div>432.00 602.00</div>	<div>492.31</div> <div>412.00 572.00</div>	<div>463.72</div> <div>390.00 540.00</div>	<div>430.90</div> <div>359.00 499.00</div>
Coil 2 P	<div>7.726</div> <div>6.000 9.000</div>	<div>25.816</div> <div>21.000 31.000</div>	<div>43.398</div> <div>35.000 51.000</div>	<div>60.933</div> <div>49.000 71.000</div>	<div>78.483</div> <div>63.000 92.000</div>	<div>96.060</div> <div>76.000 115.000</div>	<div>113.666</div> <div>92.000 135.000</div>	<div>131.274</div> <div>105.000 155.000</div>
Coil 3 M	<div>915.14</div> <div>772.00 1060.00</div>	<div>907.12</div> <div>764.00 1050.00</div>	<div>890.78</div> <div>752.001030.00</div>	<div>866.40</div> <div>728.00 1010.00</div>	<div>834.26</div> <div>700.00 970.00</div>	<div>794.44</div> <div>665.00 925.00</div>	<div>747.48</div> <div>628.00 868.00</div>	<div>693.54</div> <div>589.00 799.00</div>
Coil 3 P	<div>7.746</div> <div>6.000 10.000</div>	<div>25.843</div> <div>21.000 30.000</div>	<div>43.437</div> <div>35.000 51.000</div>	<div>60.983</div> <div>49.000 72.000</div>	<div>78.533</div> <div>63.000 93.000</div>	<div>96.116</div> <div>76.000 114.000</div>	<div>113.716</div> <div>90.000 135.000</div>	<div>131.316</div> <div>104.000 156.000</div>
Coil 4 M	<div>1433.6</div> <div>1210.0 1700.0</div>	<div>1420.8</div> <div>1205.0 1690.0</div>	<div>1394.8</div> <div>1180.0 1650.0</div>	<div>1356.0</div> <div>1140.0 1590.0</div>	<div>1305.1</div> <div>1120.0 1530.0</div>	<div>1243.1</div> <div>1070.0 1450.0</div>	<div>1170.4</div> <div>1000.0 1350.0</div>	<div>1088.9</div> <div>942.0 1240.0</div>
Coil 4 P	<div>7.647</div> <div>6.000 10.000</div>	<div>25.659</div> <div>21.000 31.000</div>	<div>43.140</div> <div>35.000 52.000</div>	<div>60.557</div> <div>49.000 73.000</div>	<div>77.963</div> <div>63.000 93.000</div>	<div>95.357</div> <div>77.000 114.000</div>	<div>112.740</div> <div>91.000 135.000</div>	<div>130.082</div> <div>105.000 156.000</div>
Coil 5 M	<div>2983.4</div> <div>2450.0 3450.0</div>	<div>2957.6</div> <div>2420.0 3400.0</div>	<div>2903.8</div> <div>2410.0 3320.0</div>	<div>2824.2</div> <div>2350.0 3200.0</div>	<div>2718.5</div> <div>2280.0 3080.0</div>	<div>2589.6</div> <div>2150.0 2950.0</div>	<div>2438.5</div> <div>2020.0 2750.0</div>	<div>2269.3</div> <div>1870.0 2570.0</div>
Coil 5 P	<div>7.869</div> <div>6.000 10.000</div>	<div>26.058</div> <div>20.000 31.000</div>	<div>43.787</div> <div>35.000 52.000</div>	<div>61.460</div> <div>49.000 73.000</div>	<div>79.138</div> <div>63.000 94.000</div>	<div>96.815</div> <div>79.000 113.000</div>	<div>114.485</div> <div>93.000 134.000</div>	<div>132.106</div> <div>106.000 156.000</div>

AM Factor	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	<div>-721</div> <div>-3200 940</div>	<div>-539</div> <div>-1400 -20</div>	<div>-444</div> <div>-930 -150</div>	<div>-387</div> <div>-760 -160</div>	<div>-347</div> <div>-660 -130</div>	<div>-316</div> <div>-600 -120</div>	<div>-292</div> <div>-550 -110</div>	<div>-272</div> <div>-520 -92</div>
Coil 0 Q	<div>-807</div> <div>-15000 11000</div>	<div>-516</div> <div>-5800 3800</div>	<div>-425</div> <div>-3700 2100</div>	<div>-389</div> <div>-2700 1400</div>	<div>-371</div> <div>-2200 1000</div>	<div>-362</div> <div>-1800 790</div>	<div>-358</div> <div>-1600 620</div>	<div>-354</div> <div>-1500 490</div>
Coil 1 R	<div>-69</div> <div>-750 460</div>	<div>-139</div> <div>-360 83</div>	<div>-135</div> <div>-280 9</div>	<div>-127</div> <div>-230 -10</div>	<div>-117</div> <div>-200 -26</div>	<div>-108</div> <div>-180 -35</div>	<div>-100</div> <div>-160 -46</div>	<div>-94</div> <div>-150 -49</div>
Coil 1 Q	<div>-618</div> <div>-3300 3300</div>	<div>-237</div> <div>-1100 960</div>	<div>-167</div> <div>-630 530</div>	<div>-142</div> <div>-470 360</div>	<div>-129</div> <div>-380 260</div>	<div>-120</div> <div>-320 190</div>	<div>-114</div> <div>-290 150</div>	<div>-108</div> <div>-260 120</div>
Coil 2 R	<div>0.7</div> <div>-85.0 76.0</div>	<div>-30.7</div> <div>-64.0 -0.4</div>	<div>-32.5</div> <div>-57.0 -12.0</div>	<div>-31.1</div> <div>-51.0 -16.0</div>	<div>-28.5</div> <div>-46.0 -17.0</div>	<div>-26.5</div> <div>-42.0 -16.0</div>	<div>-24.2</div> <div>-39.0 -15.0</div>	<div>-22.8</div> <div>-37.0 -13.0</div>
Coil 2 Q	<div>7.2</div> <div>-1500.0 1900.0</div>	<div>1.7</div> <div>-500.0 610.0</div>	<div>-1.9</div> <div>-290.0 350.0</div>	<div>-4.1</div> <div>-220.0 260.0</div>	<div>-4.4</div> <div>-160.0 190.0</div>	<div>-4.3</div> <div>-140.0 160.0</div>	<div>-3.4</div> <div>-110.0 130.0</div>	<div>-2.1</div> <div>-99.0 120.0</div>
Coil 3 R	<div>1.7</div> <div>-23.0 21.0</div>	<div>-8.5</div> <div>-22.0 1.6</div>	<div>-9.7</div> <div>-21.0 -1.3</div>	<div>-9.1</div> <div>-20.0 -1.8</div>	<div>-9.0</div> <div>-19.0 -2.0</div>	<div>-8.4</div> <div>-19.0 -1.3</div>	<div>-7.7</div> <div>-19.0 -0.8</div>	<div>-7.8</div> <div>-19.0 -0.0</div>
Coil 3 Q	<div>-93.8</div> <div>-540.0 530.0</div>	<div>-28.2</div> <div>-180.0 180.0</div>	<div>-14.6</div> <div>-100.0 110.0</div>	<div>-8.0</div> <div>-71.0 81.0</div>	<div>-3.2</div> <div>-51.0 66.0</div>	<div>0.4</div> <div>-37.0 58.0</div>	<div>3.9</div> <div>-28.0 53.0</div>	<div>7.4</div> <div>-21.0 51.0</div>
Coil 4 R	<div>-0.10</div> <div>-18.00 13.00</div>	<div>-4.06</div> <div>-12.00 2.70</div>	<div>-3.75</div> <div>-11.00 1.50</div>	<div>-4.14</div> <div>-9.80 0.52</div>	<div>-4.13</div> <div>-9.90 0.96</div>	<div>-3.92</div> <div>-10.00 1.50</div>	<div>-4.00</div> <div>-11.00 2.30</div>	<div>-4.50</div> <div>-11.00 2.60</div>
Coil 4 Q	<div>12.47</div> <div>-250.00 280.00</div>	<div>6.55</div> <div>-79.00 98.00</div>	<div>7.57</div> <div>-43.00 64.00</div>	<div>8.99</div> <div>-27.00 51.00</div>	<div>11.04</div> <div>-18.00 46.00</div>	<div>13.52</div> <div>-11.00 42.00</div>	<div>16.09</div> <div>-5.50 42.00</div>	<div>18.91</div> <div>-1.00 42.00</div>
Coil 5 R	<div>-4.57</div> <div>-56.00 51.00</div>	<div>-2.94</div> <div>-8.40 3.60</div>	<div>-2.64</div> <div>-6.90 1.10</div>	<div>-2.47</div> <div>-6.90 1.20</div>	<div>-2.78</div> <div>-9.30 2.90</div>	<div>-2.32</div> <div>-14.00 6.30</div>	<div>-2.51</div> <div>-19.00 9.60</div>	<div>-2.76</div> <div>-24.00 13.00</div>
Coil 5 Q	<div>-14.02</div> <div>-88.00 69.00</div>	<div>-2.18</div> <div>-26.00 27.00</div>	<div>2.21</div> <div>-14.00 22.00</div>	<div>5.50</div> <div>-7.00 22.00</div>	<div>8.28</div> <div>-2.50 24.00</div>	<div>11.04</div> <div>1.10 26.00</div>	<div>13.98</div> <div>4.10 29.00</div>	<div>17.10</div> <div>7.10 32.00</div>

MM Factor	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	<div>0.975</div> <div>0.850 1.100</div>	<div>0.985</div> <div>0.860 1.100</div>	<div>0.991</div> <div>0.870 1.100</div>	<div>0.993</div> <div>0.880 1.100</div>	<div>0.995</div> <div>0.880 1.100</div>	<div>0.995</div> <div>0.880 1.100</div>	<div>0.995</div> <div>0.880 1.100</div>	<div>0.995</div> <div>0.880 1.100</div>
Coil 0 P	<div>-0.456</div> <div>-1.500 1.500</div>	<div>-0.654</div> <div>-1.500 1.500</div>	<div>-0.538</div> <div>-1.500 1.500</div>	<div>-0.395</div> <div>-1.500 1.500</div>	<div>-0.292</div> <div>-1.500 1.500</div>	<div>-0.222</div> <div>-1.500 1.500</div>	<div>-0.165</div> <div>-1.500 1.500</div>	<div>-0.110</div> <div>-1.500 1.500</div>

Coil 1 M	0.970 0.850 1.100	0.980 0.860 1.100	0.986 0.870 1.100	0.989 0.880 1.100	0.989 0.880 1.100	0.990 0.880 1.100	0.990 0.880 1.100	0.989 0.880 1.100
Coil 1 P	-0.369 -1.500 1.500	-0.620 -1.500 1.500	-0.492 -1.500 1.500	-0.360 -1.500 1.500	-0.241 -1.500 1.500	-0.149 -1.500 1.500	-0.106 -1.500 1.500	-0.049 -1.500 1.500
Coil 2 M	0.995 0.890 1.100	0.996 0.890 1.100	0.997 0.890 1.100	0.997 0.890 1.100	0.998 0.890 1.100	0.998 0.890 1.100	0.998 0.890 1.100	0.998 0.890 1.100
Coil 2 P	0.003 -1.500 1.500	-0.062 -1.500 1.500	-0.077 -1.500 1.500	-0.076 -1.500 1.500	-0.066 -1.500 1.500	-0.068 -1.500 1.500	-0.038 -1.500 1.500	-0.040 -1.500 1.500
Coil 3 M	0.999 0.900 1.100	1.000 0.900 1.100	1.001 0.900 1.100	1.001 0.900 1.100	1.002 0.900 1.100	1.002 0.900 1.100	1.001 0.900 1.100	1.000 0.900 1.100
Coil 3 P	0.007 -1.500 1.500	-0.025 -1.500 1.500	-0.026 -1.500 1.500	-0.003 -1.500 1.500	0.019 -1.500 1.500	0.062 -1.500 1.500	0.115 -1.500 1.500	0.155 -1.500 1.500
Coil 4 M	1.005 0.900 1.100	1.006 0.900 1.100	1.007 0.900 1.100	1.007 0.900 1.100	1.008 0.900 1.100	1.008 0.900 1.100	1.008 0.900 1.100	1.010 0.900 1.100
Coil 4 P	-0.009 -1.500 1.500	-0.076 -1.500 1.500	-0.096 -1.500 1.500	-0.099 -1.500 1.500	-0.060 -1.500 1.500	-0.034 -1.500 1.500	-0.012 -1.500 1.500	0.034 -1.500 1.500
Coil 5 M	1.004 0.900 1.100	1.006 0.900 1.100	1.006 0.900 1.100	1.008 0.900 1.100	1.009 0.900 1.100	1.009 0.900 1.100	1.011 0.900 1.100	1.011 0.900 1.100
Coil 5 P	-0.073 -1.500 1.500	-0.108 -1.500 1.500	-0.130 -1.500 1.500	-0.144 -1.500 1.500	-0.114 -1.500 1.500	-0.013 -1.500 1.500	-0.020 -1.500 1.500	0.004 -1.500 1.500

PARMS TCID 0 TCID 1 Cal Temp T Factor
(degC)
IDs 2.748 0.791 19.0 1.00

HDIL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1530XA 10111044 DATE/TIME PERFORMED: Sat Nov 27 19:27:53 2010 DAYS SINCE CAL: 174

UNIT #: 3885TF 004291

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	-0.001 -0.200 0.200	-0.000 -0.100 0.100	0.001 -0.100 0.100	0.000 -0.100 0.100	0.000 -0.100 0.100	-0.000 -0.100 0.100	-0.000 -0.100 0.100	-0.001 -0.100 0.100
Coil 0 Q	-0.003 -0.500 0.500	-0.001 -0.200 0.200	-0.000 -0.100 0.100	0.000 -0.100 0.100	0.000 -0.100 0.100	0.000 -0.100 0.100	-0.000 -0.100 0.100	-0.001 -0.100 0.100
Coil 1 R	-0.005 -0.200 0.200	0.002 -0.100 0.100	0.000 -0.100 0.100	0.000 -0.100 0.100	-0.000 -0.100 0.100	0.001 -0.100 0.100	-0.001 -0.100 0.100	0.002 -0.100 0.100
Coil 1 Q	-0.007 -0.500 0.500	0.000 -0.200 0.200	-0.001 -0.100 0.100	-0.001 -0.100 0.100	-0.000 -0.100 0.100	0.000 -0.100 0.100	-0.000 -0.100 0.100	0.000 -0.100 0.100
Coil 2 R	0.006 -0.200 0.200	-0.002 -0.100 0.100	0.001 -0.100 0.100	0.002 -0.100 0.100	0.001 -0.100 0.100	0.000 -0.100 0.100	0.001 -0.100 0.100	-0.000 -0.100 0.100
Coil 2 Q	-0.010 -0.500 0.500	0.003 -0.200 0.200	-0.001 -0.100 0.100	0.003 -0.100 0.100	0.002 -0.100 0.100	-0.001 -0.100 0.100	-0.001 -0.100 0.100	-0.001 -0.100 0.100
Coil 3 R	0.005 -0.500 0.500	0.001 -0.100 0.100	0.005 -0.100 0.100	-0.002 -0.100 0.100	-0.002 -0.100 0.100	-0.004 -0.100 0.100	0.000 -0.100 0.100	0.002 -0.100 0.100
Coil 3 Q	-0.014 -0.500 0.500	-0.001 -0.200 0.200	0.002 -0.100 0.100	-0.001 -0.100 0.100	0.000 -0.100 0.100	-0.001 -0.100 0.100	0.000 -0.100 0.100	-0.004 -0.100 0.100
Coil 4 R	-0.006 -0.500 0.500	-0.004 -0.200 0.200	0.003 -0.200 0.200	-0.004 -0.200 0.200	0.003 -0.200 0.200	-0.004 -0.200 0.200	0.004 -0.200 0.200	-0.001 -0.200 0.200
Coil 4 Q	-0.017 -1.000 1.000	0.006 -0.400 0.400	-0.004 -0.200 0.200	0.003 -0.200 0.200	-0.003 -0.200 0.200	0.002 -0.200 0.200	0.005 -0.200 0.200	0.000 -0.200 0.200
Coil 5 R	-0.023 -1.500 1.500	-0.002 -0.500 0.500	0.006 -0.200 0.200	-0.002 -0.200 0.200	-0.001 -0.200 0.200	-0.012 -0.500 0.500	-0.010 -0.500 0.500	0.015 -0.500 0.500

Coil 5 R	-0.023	-0.002	0.008	-0.002	-0.001	-0.012	-0.010	0.013
	-1.200 1.200	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400
Coil 5 Q	-0.040	0.013	0.009	-0.011	0.010	-0.013	0.009	0.004
	-1.500 1.500	-0.800 0.800	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400
ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	159.66	158.25	155.37	151.12	145.46	138.50	130.28	120.83
	136.00 186.00	134.00 184.00	131.00 181.00	126.00 176.00	122.00 170.00	118.00 161.00	112.00 150.00	105.00 139.00
Coil 0 P	7.121	25.233	42.583	59.858	77.112	94.389	111.694	128.950
	-1.000 12.000	19.000 30.000	35.000 50.000	49.000 71.000	63.000 91.000	77.000 110.000	92.000 130.000	105.000 151.000
Coil 1 M	279.27	276.78	271.68	264.16	254.17	241.95	227.63	211.20
	237.00 327.00	235.00 325.00	230.00 320.00	225.00 312.00	218.00 302.00	208.00 288.00	196.00 266.00	184.00 244.00
Coil 1 P	7.143	25.259	42.621	59.883	77.128	94.360	111.590	128.762
	-1.000 12.000	19.000 30.000	35.000 51.000	49.000 71.000	63.000 92.000	77.000 112.000	92.000 132.000	105.000 153.000
Coil 2 M	563.61	558.75	548.92	534.27	514.79	490.77	462.51	429.71
	479.00 659.00	474.00 654.00	463.00 643.00	450.00 622.00	432.00 602.00	412.00 572.00	390.00 540.00	359.00 499.00
Coil 2 P	7.261	25.709	43.394	60.998	78.600	96.225	113.886	131.536
	-1.000 12.000	19.000 31.000	35.000 51.000	49.000 71.000	63.000 92.000	77.000 114.000	92.000 135.000	105.000 156.000
Coil 3 M	912.94	905.03	888.92	864.72	832.83	793.39	746.83	692.77
	772.00 1060.00	764.00 1050.00	752.00 1030.00	728.00 1010.00	700.00 970.00	665.00 925.00	628.00 868.00	589.00 799.00
Coil 3 P	7.293	25.736	43.431	61.041	78.638	96.278	113.934	131.576
	-2.000 13.000	19.000 31.000	35.000 52.000	49.000 72.000	63.000 93.000	77.000 114.000	92.000 135.000	105.000 156.000
Coil 4 M	1434.1	1421.4	1395.5	1357.0	1306.4	1244.3	1171.8	1090.4
	1210.0 1700.0	1205.0 1690.0	1180.0 1650.0	1140.0 1590.0	1120.0 1530.0	1070.0 1450.0	1000.0 1350.0	942.0 1240.0
Coil 4 P	7.218	25.556	43.131	60.603	78.056	95.505	112.940	130.310
	-2.000 13.000	19.000 31.000	35.000 52.000	49.000 73.000	63.000 93.000	78.000 114.000	92.000 135.000	105.000 156.000
Coil 5 M	2976.1	2950.5	2897.8	2818.4	2713.0	2584.5	2434.7	2265.0
	2450.0 3450.0	2420.0 3400.0	2410.0 3320.0	2350.0 3200.0	2280.0 3080.0	2150.0 2950.0	2020.0 2750.0	1870.0 2570.0
Coil 5 P	7.457	25.959	43.772	61.505	79.214	96.956	114.641	132.316
	-2.000 13.000	19.000 31.000	35.000 52.000	49.000 73.000	63.000 94.000	79.000 114.000	93.000 135.000	106.000 156.000

HDIL AFTER LOG VERIFICATION SUMMARY



TOOL #: 1530XA 10111044 DATE/TIME PERFORMED: Sat Nov 27 21:50:50 2010 DAYS SINCE CAL: 174

UNIT #: 3885TF 004291

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000
	-0.081 0.079	-0.060 0.060	-0.029 0.031	-0.030 0.030	-0.030 0.030	-0.030 0.030	-0.030 0.030	-0.031 0.029
Coil 0 Q	-0.002	0.000	0.000	0.000	0.000	0.000	0.000	-0.001
	-0.043 0.037	-0.121 0.119	-0.030 0.030	-0.030 0.030	-0.030 0.030	-0.030 0.030	-0.030 0.030	-0.031 0.029
Coil 1 R	-0.005	0.001	-0.000	-0.001	0.001	0.001	-0.002	0.002
	-0.085 0.075	-0.048 0.052	-0.030 0.030	-0.030 0.030	-0.030 0.030	-0.029 0.031	-0.031 0.029	-0.028 0.032
Coil 1 Q	-0.006	0.001	-0.002	0.001	0.000	-0.000	0.000	0.001
	-0.407 0.393	-0.100 0.100	-0.031 0.029	-0.031 0.029	-0.030 0.030	-0.030 0.030	-0.030 0.030	-0.030 0.030
Coil 2 R	0.005	-0.002	-0.001	0.002	0.003	0.000	-0.002	-0.001
	-0.064 0.076	-0.032 0.028	-0.029 0.031	-0.028 0.032	-0.029 0.031	-0.030 0.030	-0.029 0.031	-0.030 0.030
Coil 2 Q	-0.004	-0.002	-0.001	0.000	0.001	0.000	-0.000	-0.000
	-0.360 0.340	-0.097 0.103	-0.031 0.029	-0.027 0.033	-0.028 0.032	-0.031 0.029	-0.031 0.029	-0.031 0.029
Coil 3 R	0.002	0.002	0.004	-0.000	0.003	-0.001	-0.002	-0.002
	-0.035 0.045	-0.039 0.041	-0.035 0.045	-0.042 0.038	-0.042 0.038	-0.044 0.036	-0.040 0.040	-0.038 0.042
Coil 3 Q	-0.007	0.001	-0.002	-0.005	0.003	-0.000	0.004	0.000
	-0.014 0.026	-0.051 0.079	-0.038 0.042	-0.044 0.039	-0.040 0.040	-0.044 0.039	-0.040 0.040	-0.044 0.039

Coil 4 R	-0.009 -0.066 0.054	0.006 -0.064 0.056	0.007 -0.057 0.063	-0.002 -0.064 0.056	-0.001 -0.057 0.063	0.006 -0.064 0.056	0.001 -0.056 0.064	-0.006 -0.061 0.059
Coil 4 Q	-0.017 -0.317 0.283	0.002 -0.094 0.106	-0.000 -0.064 0.056	0.004 -0.057 0.063	-0.001 -0.063 0.057	0.003 -0.058 0.062	-0.001 -0.055 0.065	0.003 -0.060 0.060
Coil 5 R	-0.022 -0.143 0.097	0.006 -0.122 0.118	-0.006 -0.114 0.126	-0.002 -0.122 0.118	0.015 -0.121 0.119	-0.006 -0.132 0.108	-0.001 -0.130 0.110	0.022 -0.105 0.135
Coil 5 Q	-0.024 -0.640 0.560	0.003 -0.237 0.263	0.003 -0.111 0.129	-0.008 -0.131 0.109	-0.003 -0.110 0.130	0.001 -0.133 0.107	-0.003 -0.111 0.129	-0.006 -0.116 0.124

ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	159.55 156.47 162.85	158.13 155.08 161.41	155.24 152.27 158.48	150.96 148.10 154.14	145.30 142.55 148.37	138.35 135.73 141.27	130.11 127.67 132.88	120.57 118.41 123.25
Coil 0 P	7.022 4.121 10.121	25.215 22.233 28.233	42.596 39.583 45.583	59.875 56.858 62.858	77.166 74.112 80.112	94.448 91.389 97.389	111.739 108.694 114.694	129.020 125.950 131.950
Coil 1 M	279.19 273.68 284.85	276.69 271.24 282.31	271.55 266.25 277.11	264.02 258.87 269.44	253.98 249.09 259.26	241.76 237.11 246.79	227.35 223.08 232.18	210.85 206.97 215.42
Coil 1 P	7.048 4.143 10.143	25.246 22.259 28.259	42.634 39.621 45.621	59.913 56.883 62.883	77.175 74.128 80.128	94.415 91.360 97.360	111.648 108.590 114.590	128.816 125.762 131.762
Coil 2 M	563.27 552.34 574.88	558.41 547.58 569.93	548.48 537.95 559.90	533.79 523.58 544.95	514.18 504.49 525.09	490.22 480.95 500.58	461.71 453.26 471.76	428.91 421.11 438.30
Coil 2 P	7.152 4.261 10.261	25.694 22.709 28.709	43.403 40.394 46.394	61.022 57.998 63.998	78.639 75.600 81.600	96.279 93.225 99.225	113.932 110.886 116.886	131.612 128.536 134.536
Coil 3 M	912.60 894.68 931.19	904.64 886.93 923.13	888.36 871.14 906.70	864.23 847.42 882.01	832.19 816.17 849.48	792.75 777.52 809.26	745.79 731.89 761.76	691.87 678.92 706.63
Coil 3 P	7.183 4.293 10.293	25.716 22.736 28.736	43.442 40.431 46.431	61.061 58.041 64.041	78.688 75.638 81.638	96.335 93.278 99.278	113.989 110.934 116.934	131.636 128.576 134.576
Coil 4 M	1433.7 1405.4 1462.8	1420.9 1392.9 1449.8	1394.8 1367.6 1423.4	1356.2 1329.9 1384.1	1305.6 1280.3 1332.6	1243.5 1219.4 1269.2	1170.6 1148.4 1195.3	1088.6 1068.6 1112.2
Coil 4 P	7.120 4.218 10.218	25.545 22.556 28.556	43.137 40.131 46.131	60.631 57.603 63.603	78.091 75.056 81.056	95.545 92.505 98.505	112.979 109.940 115.940	130.377 127.310 133.310
Coil 5 M	2974.8 2916.6 3035.7	2949.1 2891.5 3009.5	2895.7 2839.8 2955.8	2816.2 2762.0 2874.7	2710.7 2658.7 2767.2	2582.1 2532.8 2636.1	2431.1 2386.0 2483.4	2260.9 2219.7 2310.3
Coil 5 P	7.360 4.457 10.457	25.942 22.959 28.959	43.783 40.772 46.772	61.524 58.505 64.505	79.268 76.214 82.214	96.989 93.956 99.956	114.713 111.641 117.641	132.354 129.316 135.316

 Baker Atlas 	COMPANY <u>NALCOR ENERGY</u> WELL <u>NALCOR ET AL FINNEGAN #1</u> FIELD <u>FINNEGAN</u> PROVINCE <u>NEWFOUNDLAND AND LABRADOR</u>		FILE NO: _____ API NO: _____
	LOCATION: _____		ELEVATIONS: KB 125.00 M DF GL 118.75 M LICENSE: 2010-128-04
	LAT 49.92 N	LONG 63.33 W	DATE 27-NOV-2010