



FILE NO:
US625268
API NO:
05033061740000

COMPANY
WELL
FIELD
COUNTY

DJ SIMMONS, INC
PINTO #1-7
PAPOOSE CANYON
DOLORES

STATE CO

Ver. 3.87

S7 T39N R19W
RIG: AZTEC 222

LOCATION:

SHL: 2832.09' FSL: 2840.81' FEL
LAT: 37.655169
LONG: -108.96760
SEC 7 TWP 39N RGE 19W

OTHER SERVICES

STAR
ECBIL
MREX
FLEX
XMAC ZDL CN CAL

PERMANENT DATUM
LOG MEASURED FROM
DRILL MEAS. FROM

GL
ELEVATION
6609 FT
KB 6622 FT
DF
GL 6609 FT

DATE	23-Nov-2013
RUN	1
TRIP	1
SERVICE ORDER	US625268
DEPTH DRILLER	6343 FT
DEPTH LOGGER	6330 FT
BOTTOM LOGGED INTERVAL	6300 FT
TOP LOGGED INTERVAL	2050 FT
CASING DRILLER	8.625 IN @ 2110 FT
CASING LOGGER	2106 FT
BIT SIZE	7.875 IN
TYPE OF FLUID IN HOLE	WBM
DENSITY	8.8 LB/G
VISCOSITY	50 CP
PH	8
FLUID LOSS	7 C3
SOURCE OF SAMPLE	FLOWLINE
RM AT MEAS. TEMP.	0.72 OHMM @ 64 DEGF
RM AT MEAS. TEMP.	0.54 OHMM @ 64 DEGF
RM AT MEAS. TEMP.	0.9 OHMM @ 64 DEGF
SOURCE OF RMF	CALCULATED
RM AT BHT	0.45 OHMM @ 121 DEGF
TIME SINCE CIRCULATION	5 HRS
MAX. RECORDED TEMP.	123 DEGF
EQUIP. NO.	6670
LOCATION	GRAND JCT
RECORDED BY	PATTON / MEIER
WITNESSED BY	G. STEVENSON

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE THE 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
8.625 IN	0 FT	6343 FT

CASING RECORD

SIZE	WEIGHT	GRADE	FROM	TO
7.875 IN	24 LB/F		0 FT	2110 FT

REMARKS

RUN 1 TRIP 1: HDIL ZDL CN GR RUN IN COMBINATION
GR RUN ON BOTTOM PER CUSTOMER REQUEST

HDIL RAN WITH 1.5" STANDOFFS
ABC TO CALCULATE: STANDOFF

THANK YOU FOR CHOOSING BAKER HUGHES WIRELINE SERVICES
CREW: PATTON/HECTOR/HOLLAR/OLSON
RIG: AZTEC 222

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	DHPA	4430XB	12494777	FREE
1	1	SWVL	3944XD	10195796	FREE
1	1	TTRM	3981XA	10203010	FREE
1	1	WTS	3514XB	10240730	FREE
1	1	CN	2446XA	10202048	DECENTRALIZED
1	1	ZDL	2234XA	153015	DECENTRALIZED
1	1	KNJT	3939XA	10185406	FREE
1	1	HDIL	1515EA	10318637	STOOD OFF
1	1	HDIL	1515MA	10037719	STOOD OFF
1	1	DSL	1329XA	10203001	FREE

MAIN 5"/100FT SCALE

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013

Patches: 3

Plotted: Sat Nov 23 19:57:42 2013

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/625268/n777q02.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 44.381 ft BOTTOM DEPTH: 6348.628 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
TTRM	FILTER ()	medium (1)		TOP	BOTTOM
	FILTER (.h)	medium (1)		"	"
	FILTER (.i)	medium (1)		"	"
Y AXIS CALIPER	FILTER ()	medium (1)		"	"
TENSION	FILTER ()	medium (1)		"	"
GR	FILTER ()	medium (1)		"	"
	FILTER (.h)	medium (1)		"	"
CALIPER	FILTER ()	medium (1)		"	"
	FILTER (.h)	medium (1)		"	"
	FILTER (.i)	medium (1)		"	"
SP-SPDH	FILTER ()	heavy (3)		"	"
	FILTER (.h)	heavy (3)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
BIT SIZE	BIT SIZE	7.875	in	TOP	BOTTOM
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	64.0	degF	"	"
	MUD SAMPLE RES	0.720	ohm.m	"	"
BOREHOLE TEMP from GRADIENT	Known BH REF TEMP	64.0	degF	"	"
	at BH REF DEPTH	0.0	ft	"	"
	with TEMP GRADIENT	1.200	0.01 degF/ft	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (mbh*)	7.875	in	"	"
BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	TOOL MEASURED		"	"

SP CONTROL

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
SP CONTROL	Tool/Bridge	TOOL		TOP	BOTTOM

HDIL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
HDIL TEMPERATURE CORRECTION	TEMP CORR SOURCE	USE RXTEMP		TOP	BOTTOM
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		"	"

ABC PROCESSING	STANDOFF	"	"
ABC to CALCULATE	1.50	in	"
STANDOFF	ECCENTERED	"	"
TOOL POSITION	1.000	"	"
Rmud MULTIPLIER			

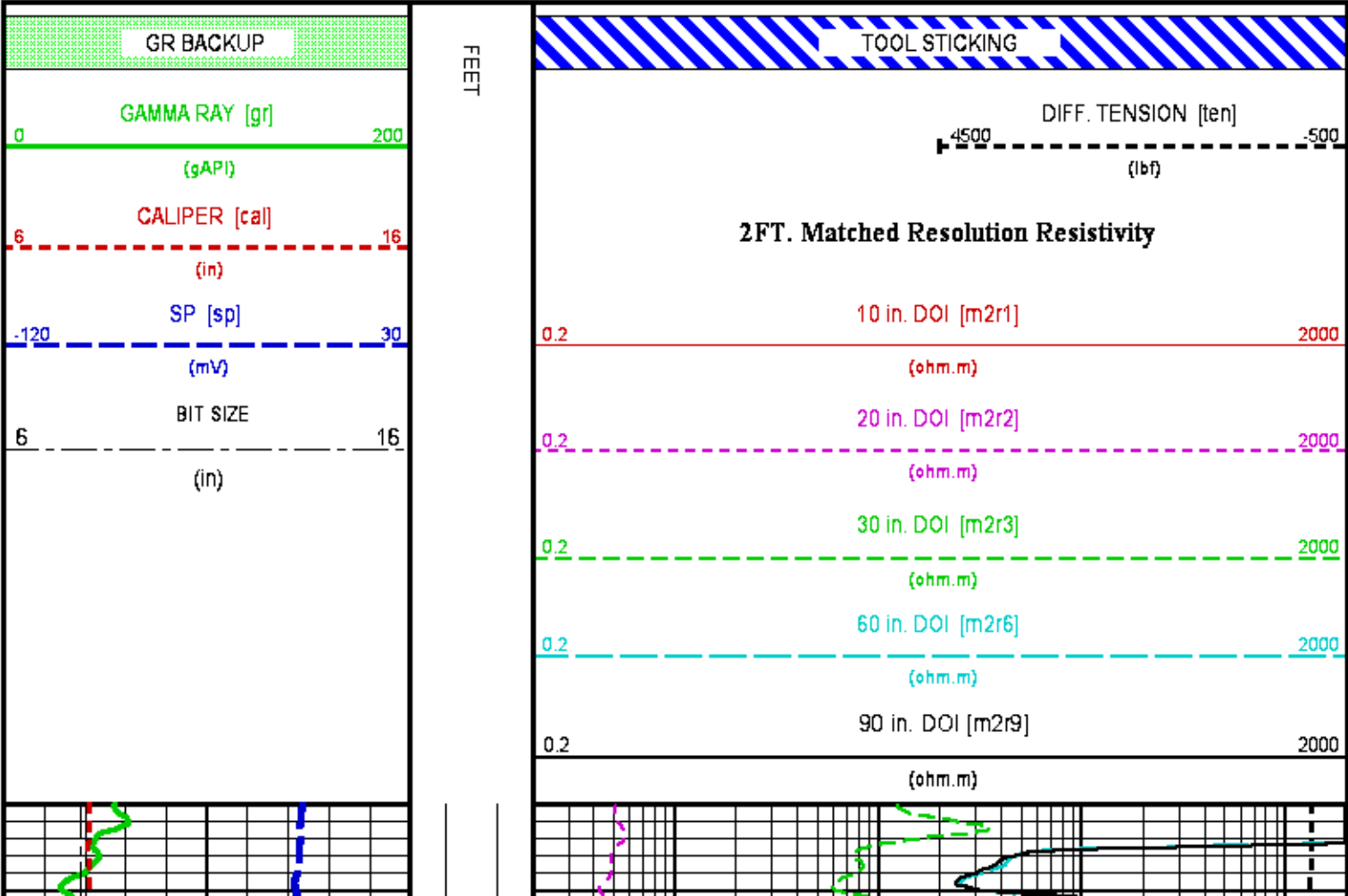
CURVE DESCRIPTION REPORT

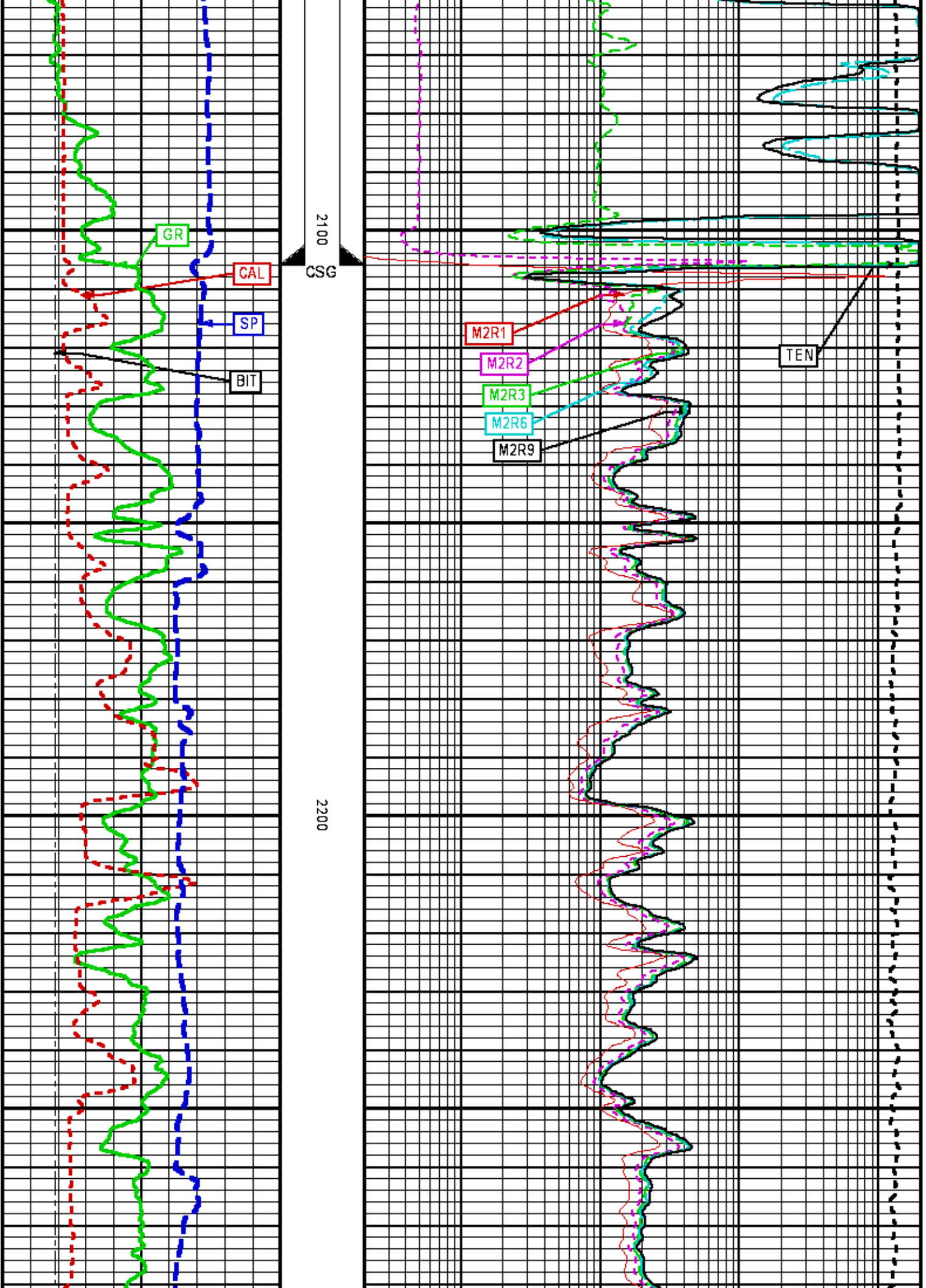
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F1:BIT	Nov 23 17:21:23 2013	BIT SIZE
F1:CAL	Nov 23 17:21:23 2013	CALIPER
F1:GR	Nov 23 17:21:23 2013	GAMMA RAY
F1:M2R1	Nov 23 17:21:23 2013	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 10-INCH DOI
F1:M2R2	Nov 23 17:21:23 2013	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 20-INCH DOI
F1:M2R3	Nov 23 17:21:23 2013	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 30-INCH DOI
F1:M2R6	Nov 23 17:21:23 2013	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 60-INCH DOI
F1:M2R9	Nov 23 17:21:23 2013	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 90-INCH DOI
F1:SP	Nov 23 17:21:23 2013	SPONTANEOUS POTENTIAL
F1:TEN	Nov 23 17:21:23 2013	DIFFERENTIAL TENSION

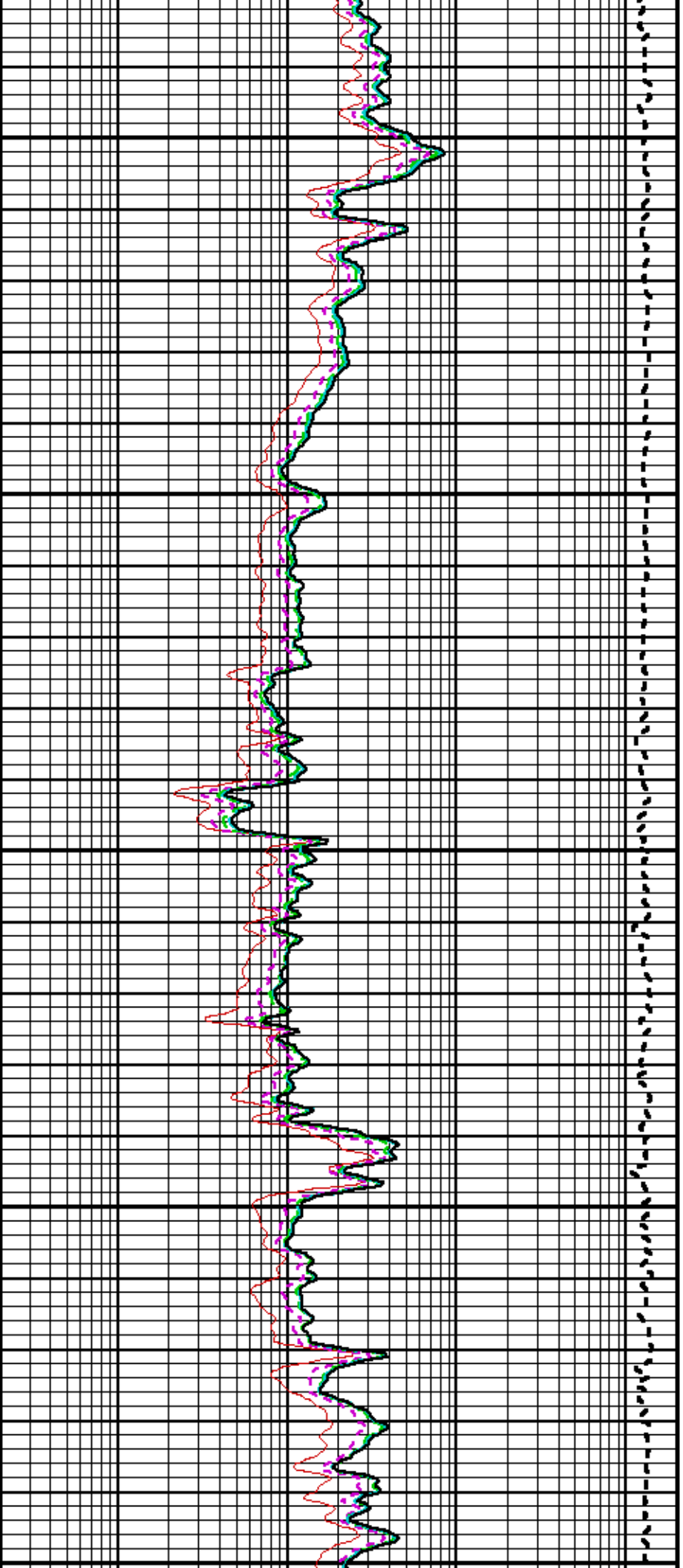
CURVE MEASURE POINT OFFSET

CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
BIT	0.00	M2R1	15.25	M2R6	15.25	TEN	0.00
CAL	42.00	M2R2	15.25	M2R9	15.25		
GR	1.50	M2R3	15.25	SP	21.25		

Presentation	: HL6670:/dat1a/625268/HDIL-MAIN.fvpdf [5"/100' Scale]
Plot Interval	: 2050 - 6345 Feet
Data File 1	: F1 : HL6670:/dat1a/625268/n777q02-MAIN.xtf
Created On	: Nov 23 17:21:23 2013
Company	: DJ SIMMONS, INC
Well	: PINTO #1-7
Field	: PAPOOSE CANYON
File Interval	: -20 - 6345 Feet
OCT	: n777q



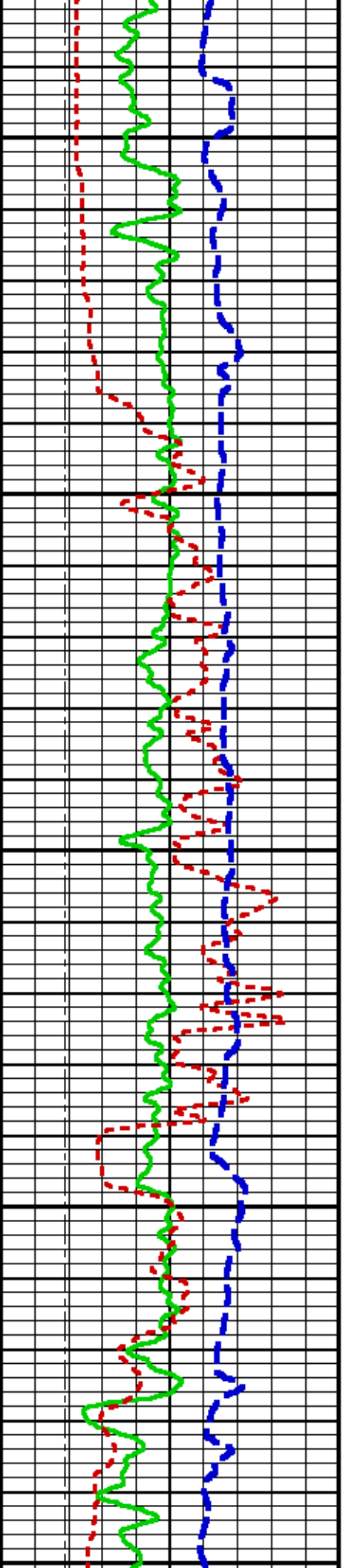


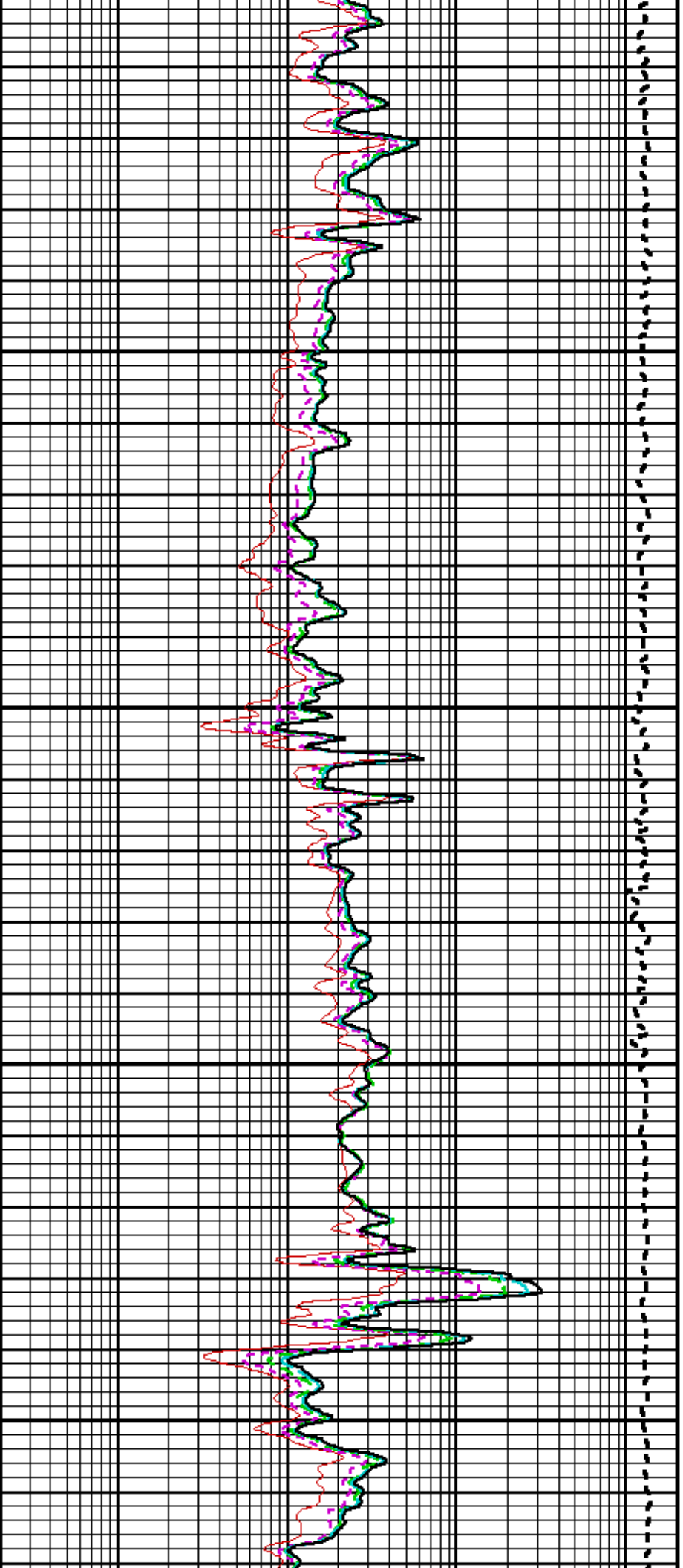


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2400

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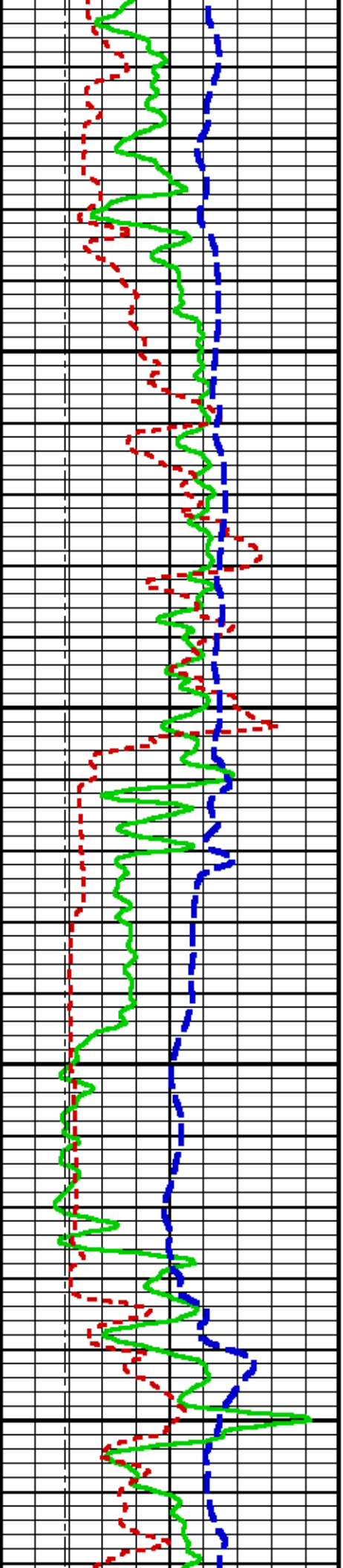


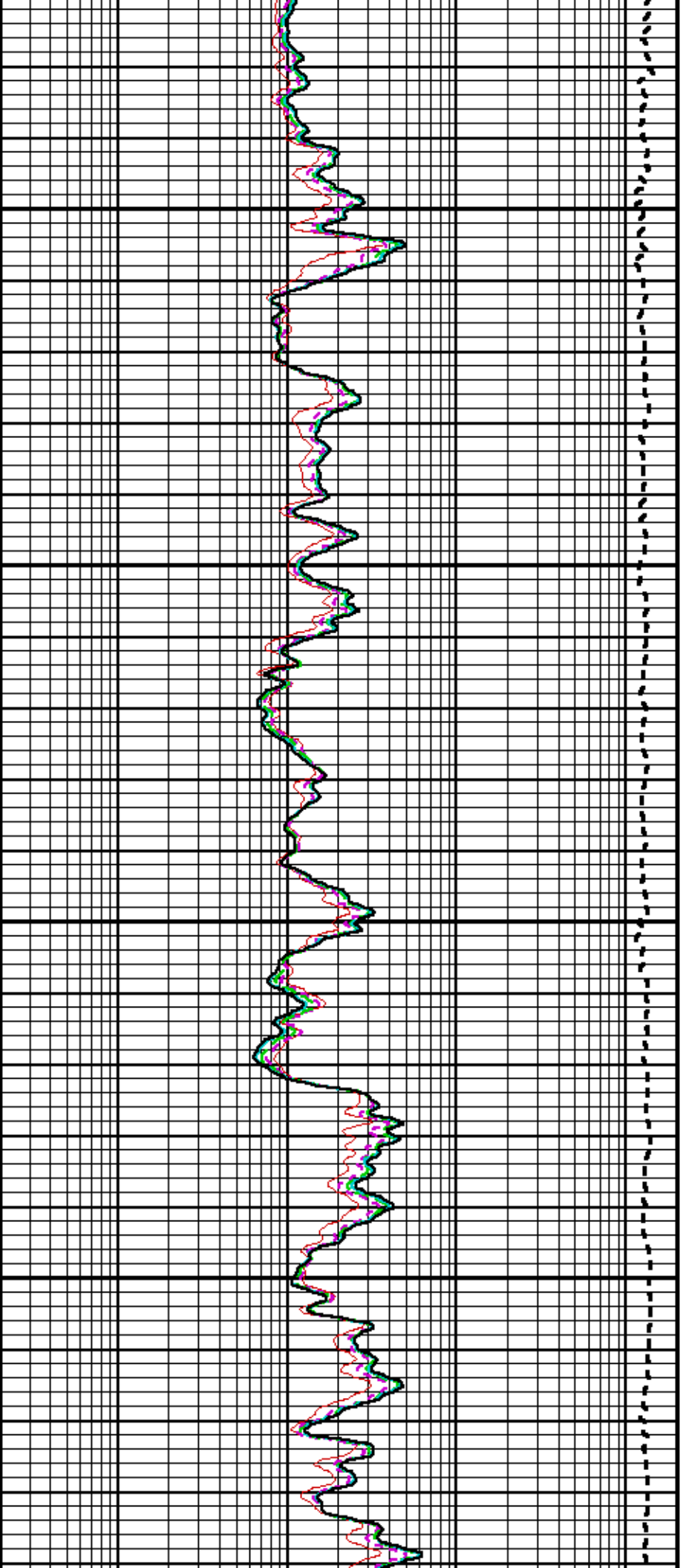


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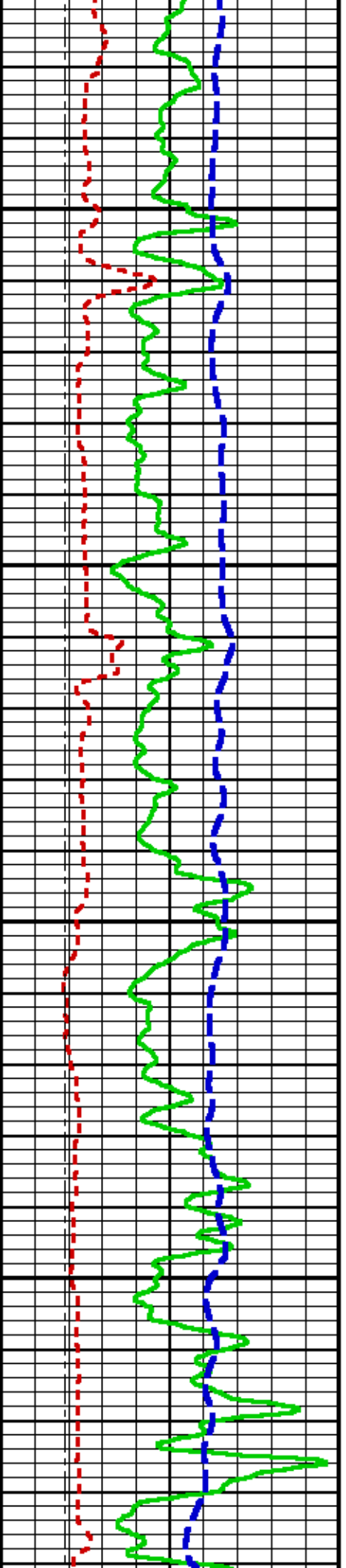
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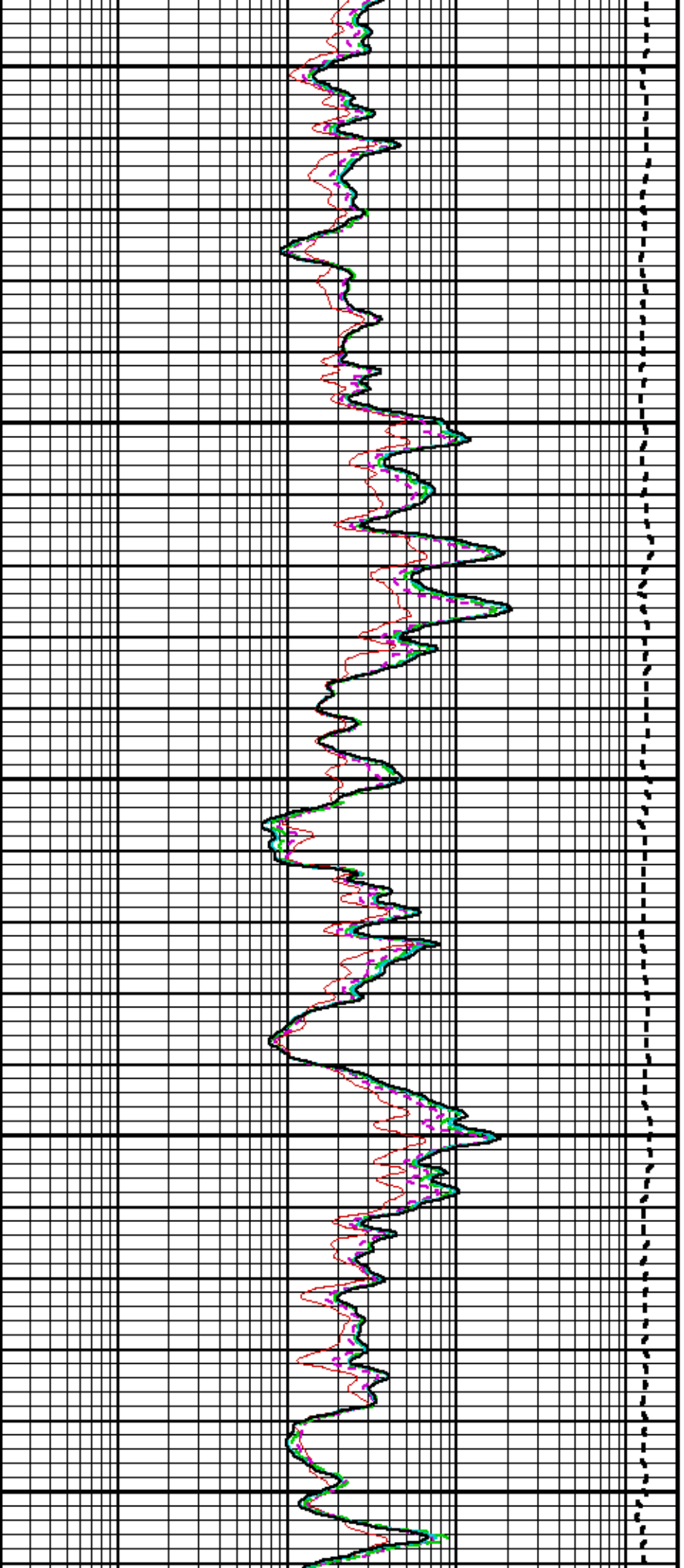




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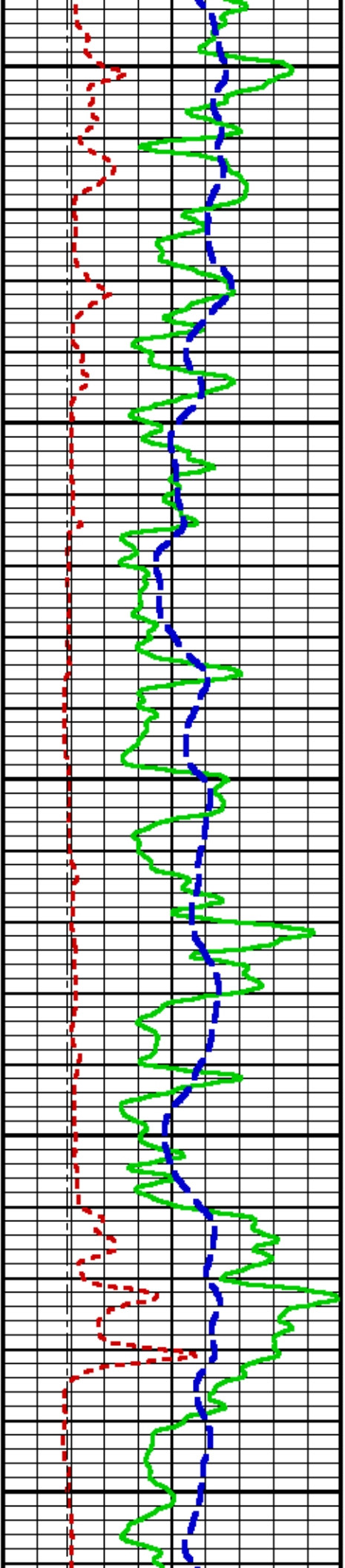
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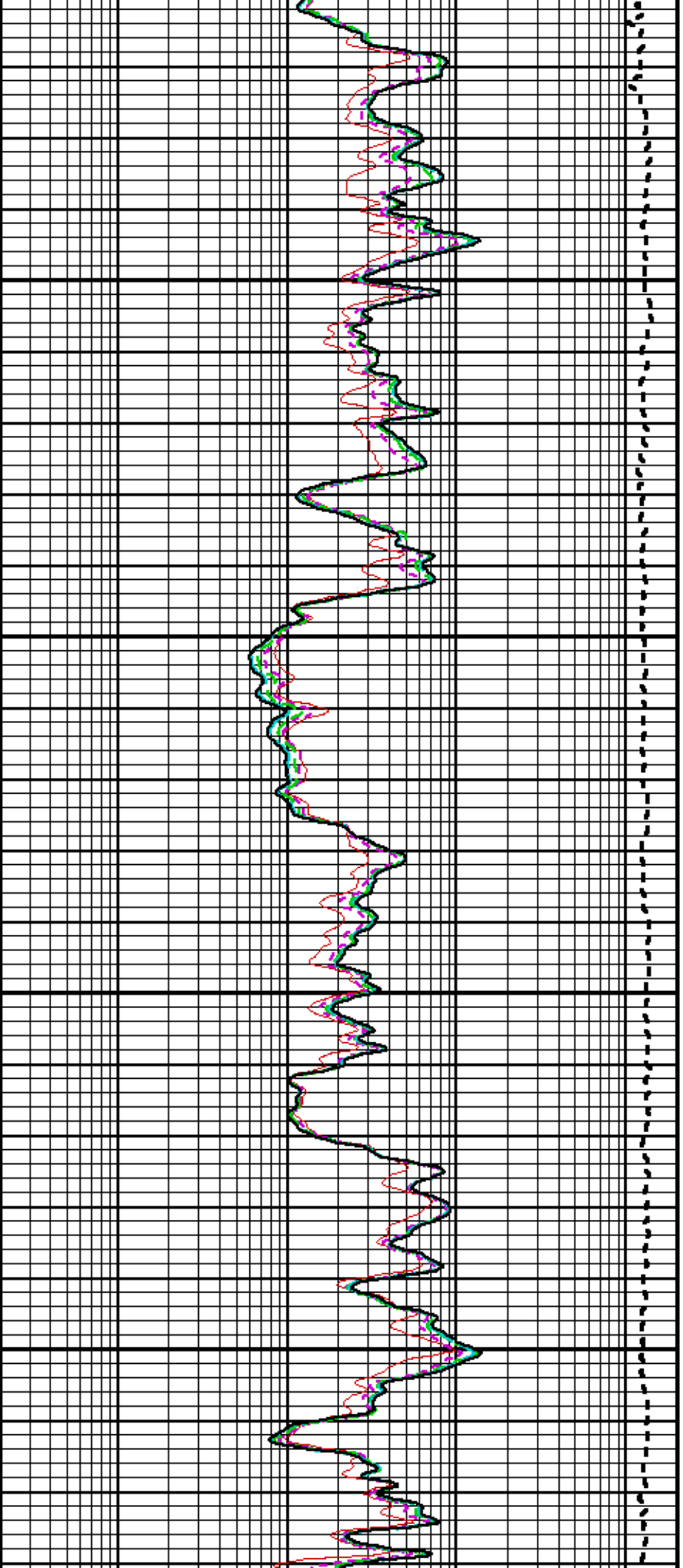




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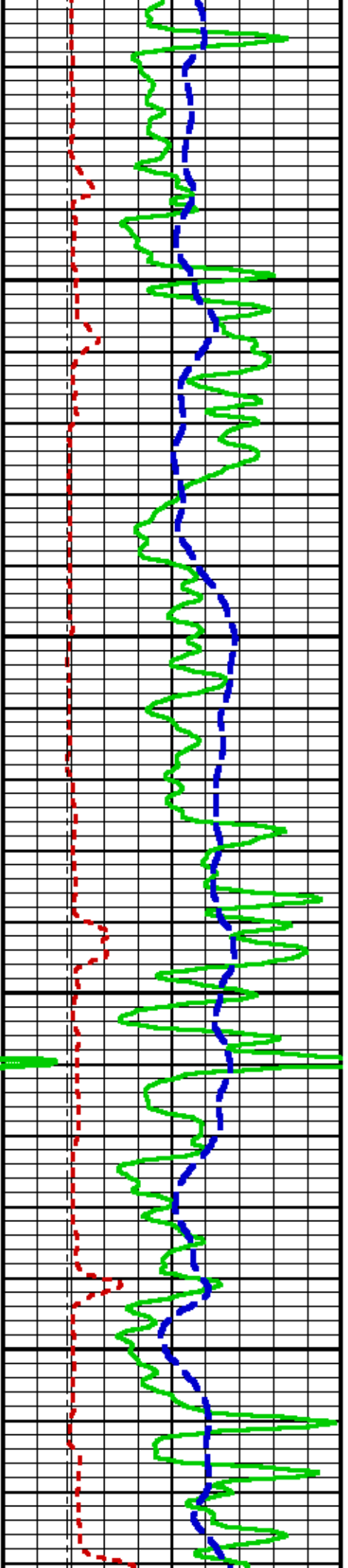
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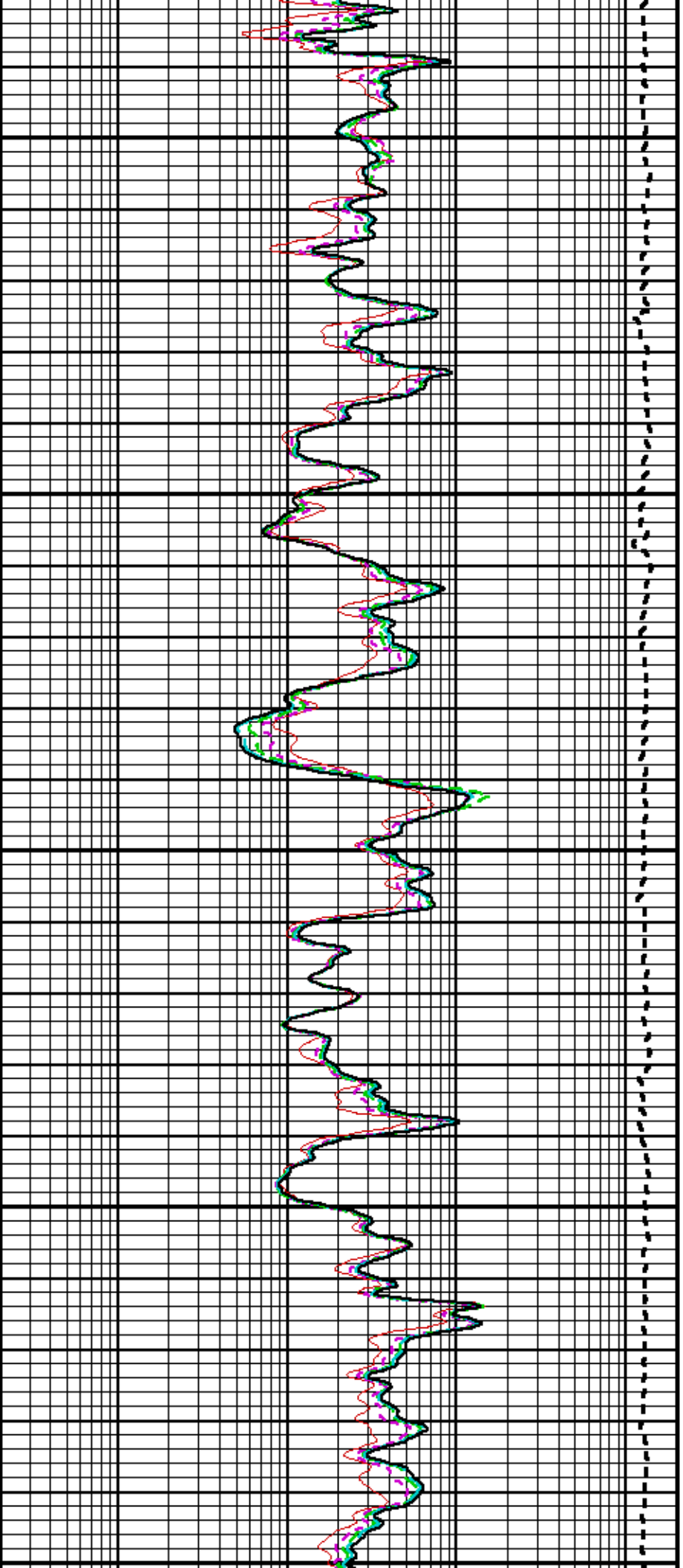




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3300

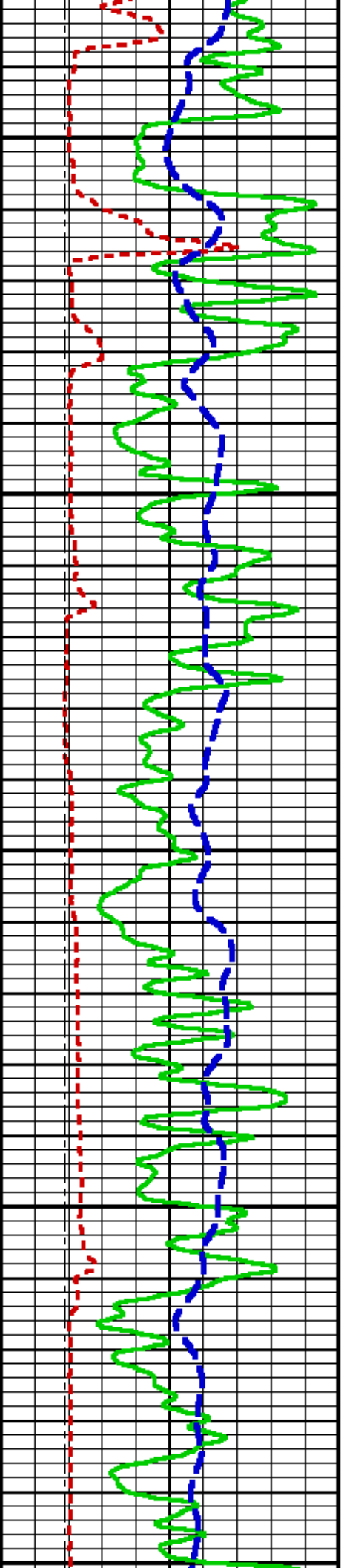


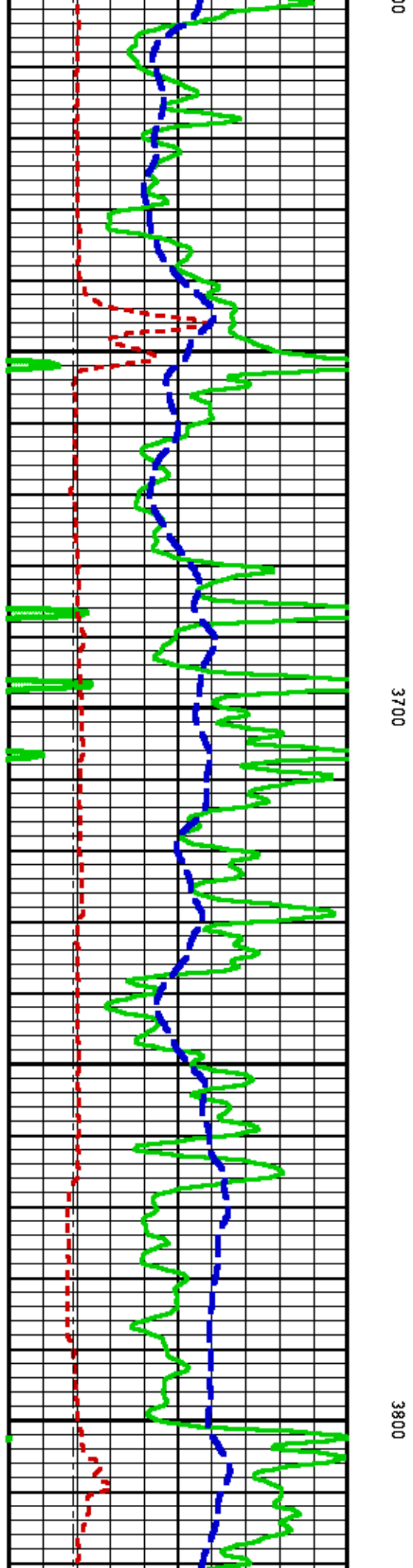
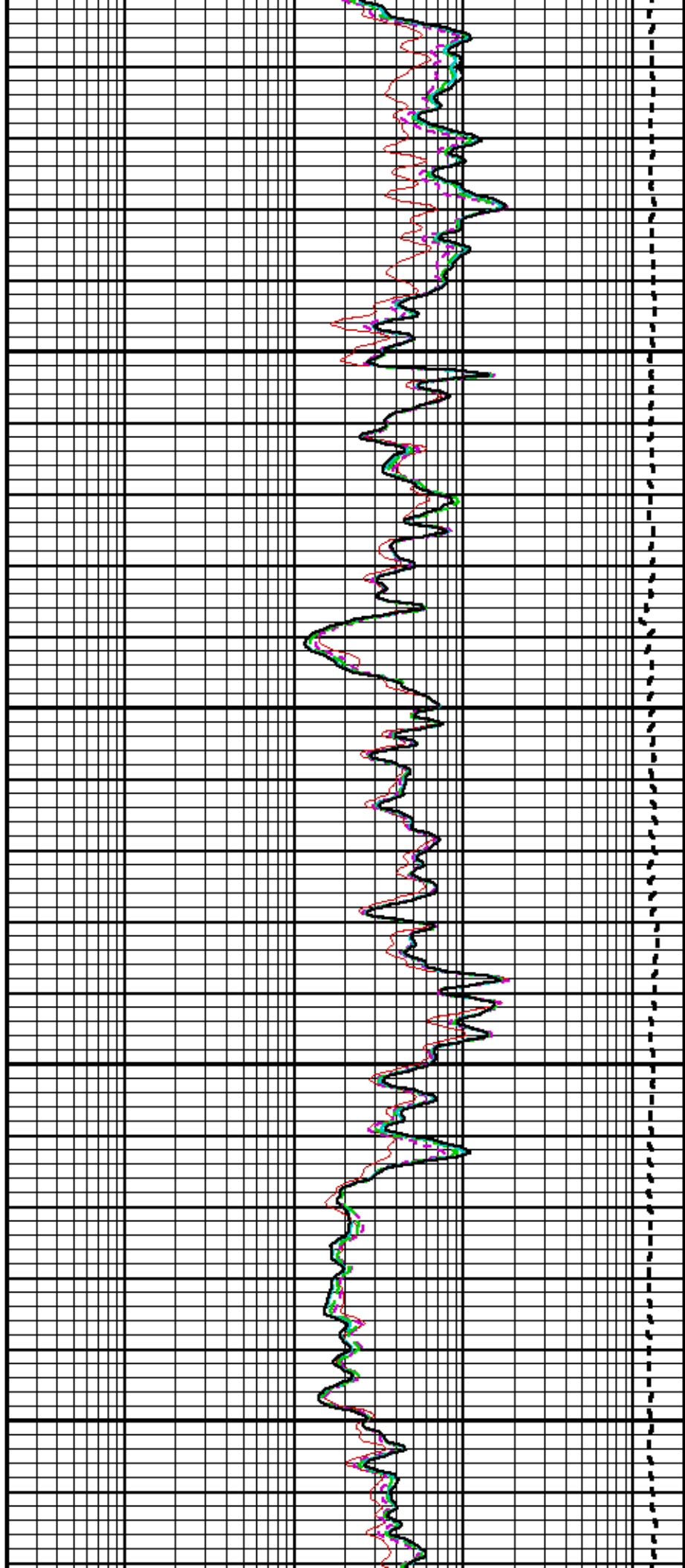


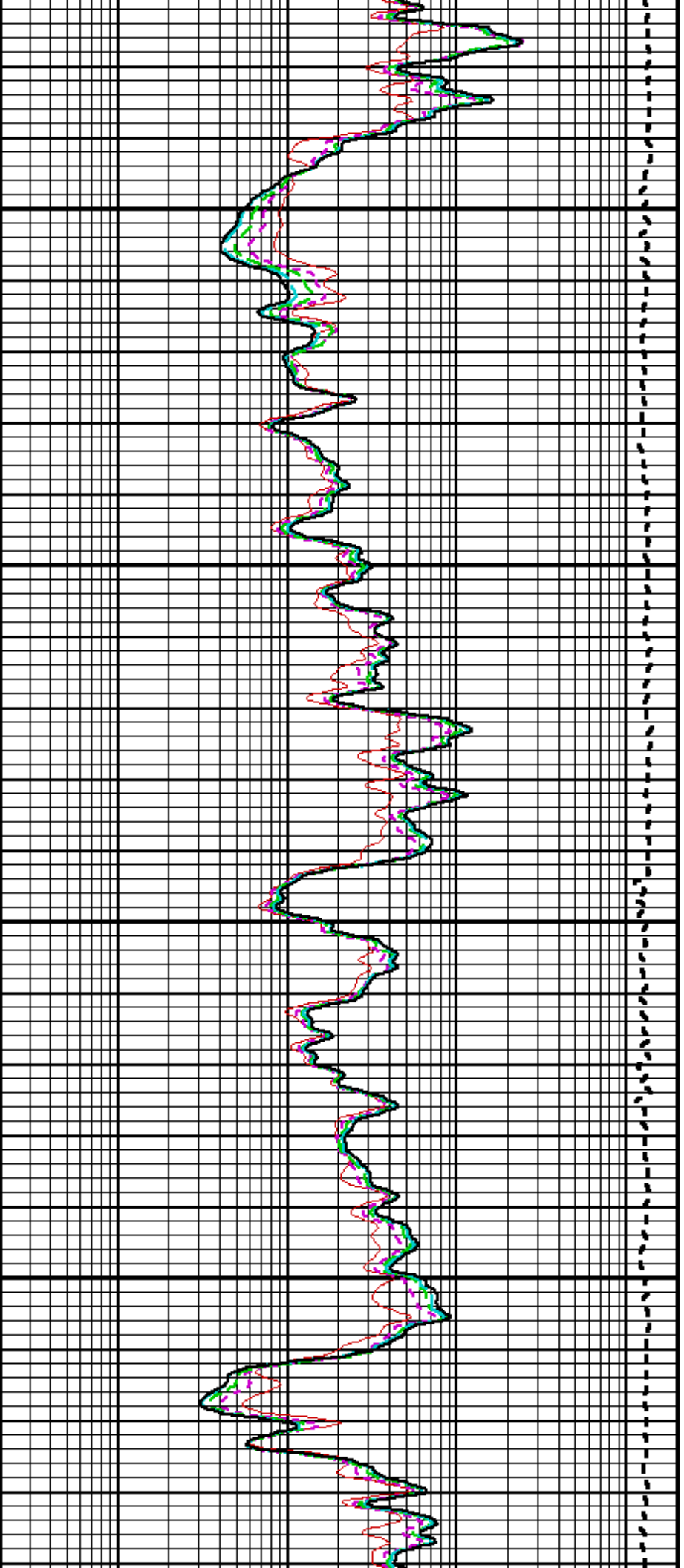
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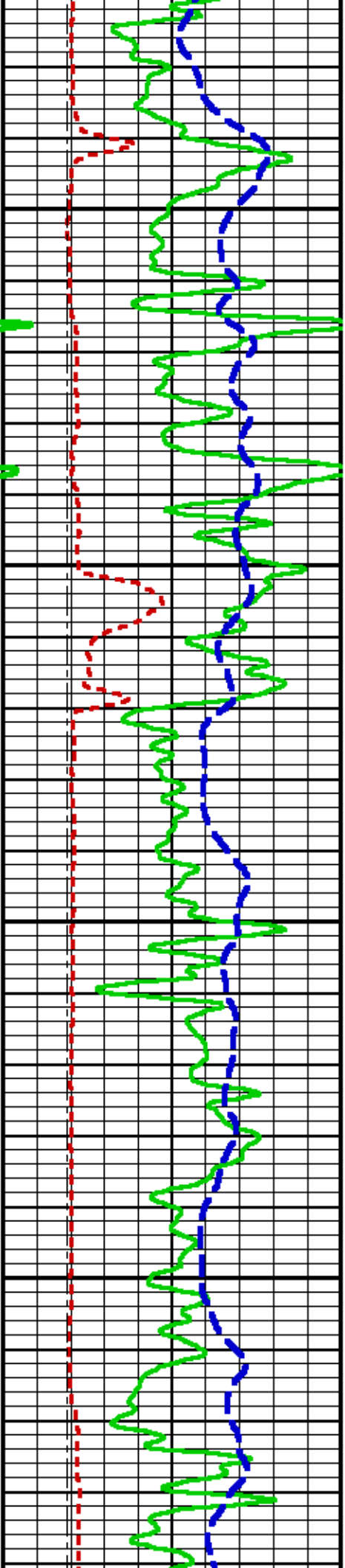


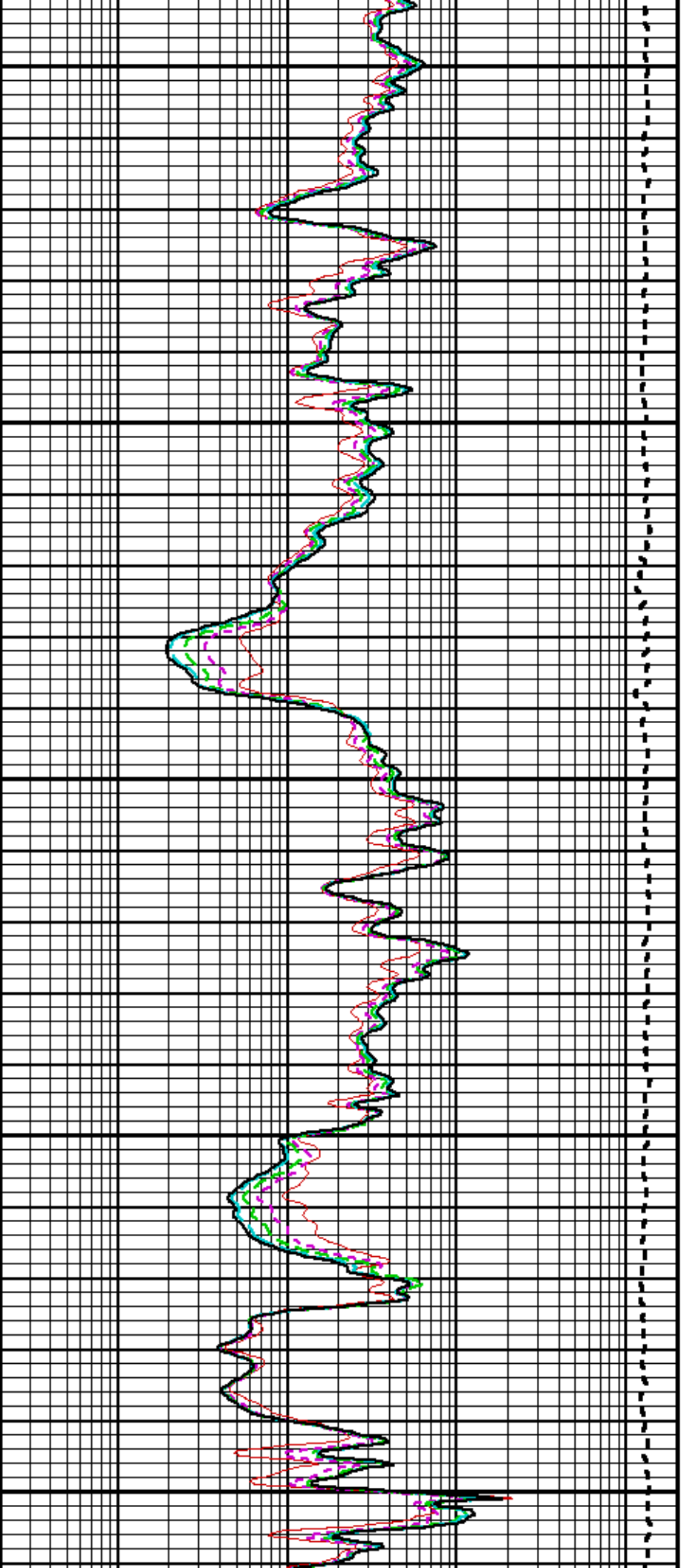




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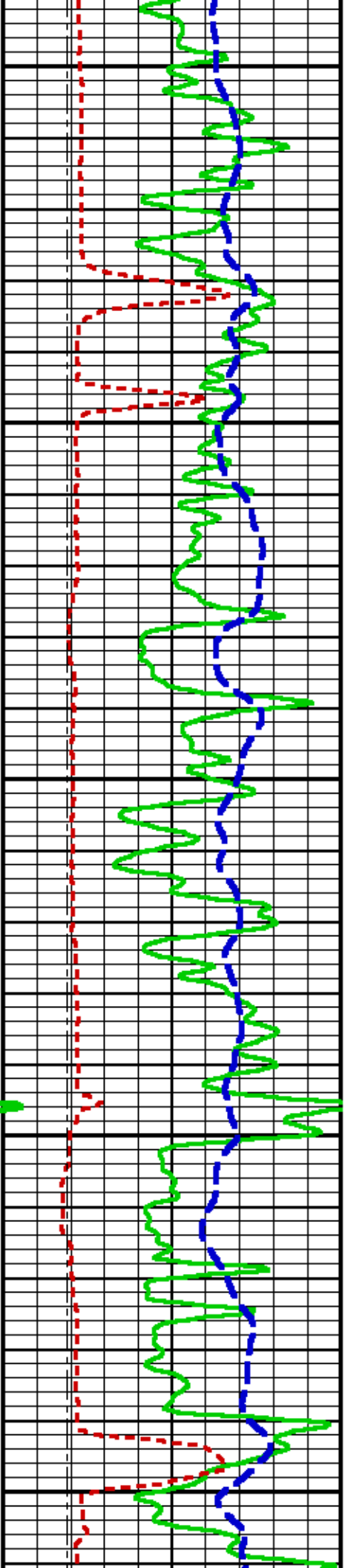
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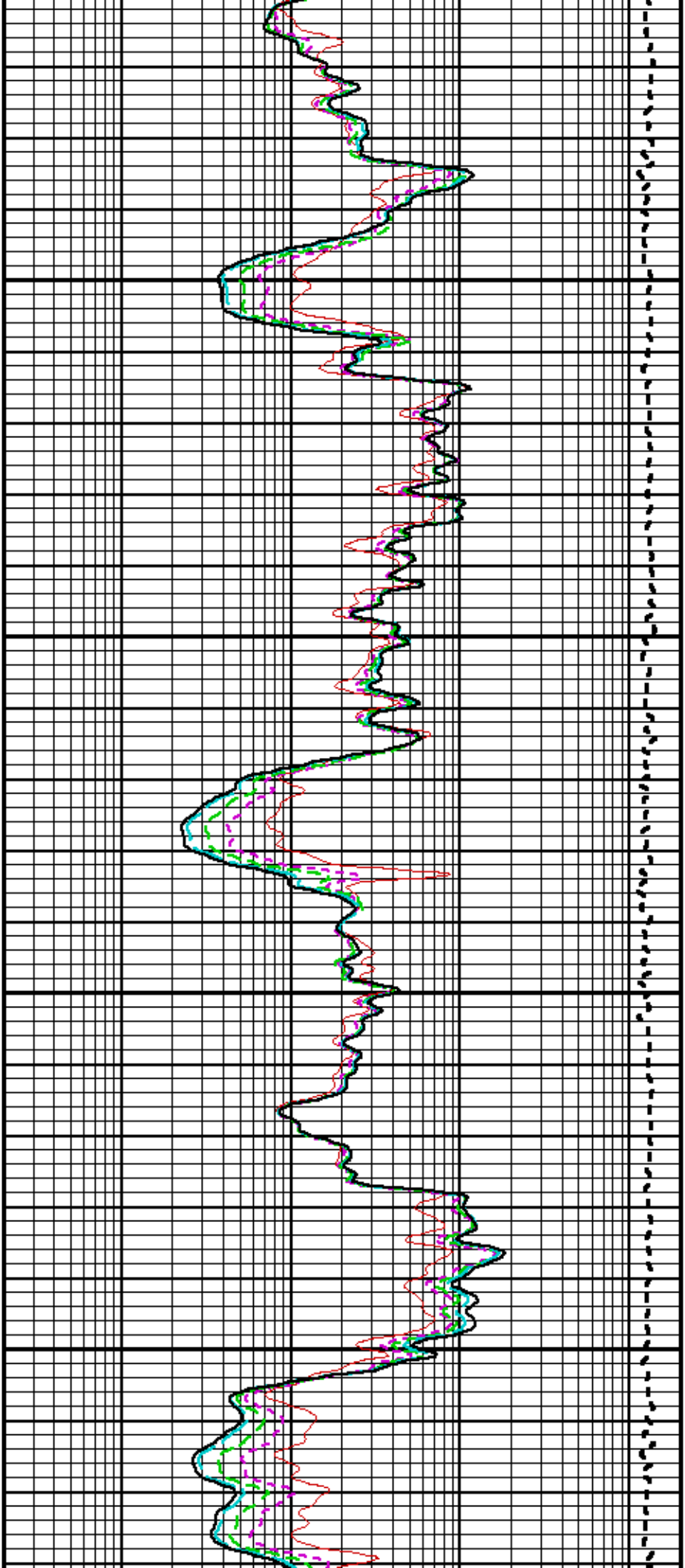




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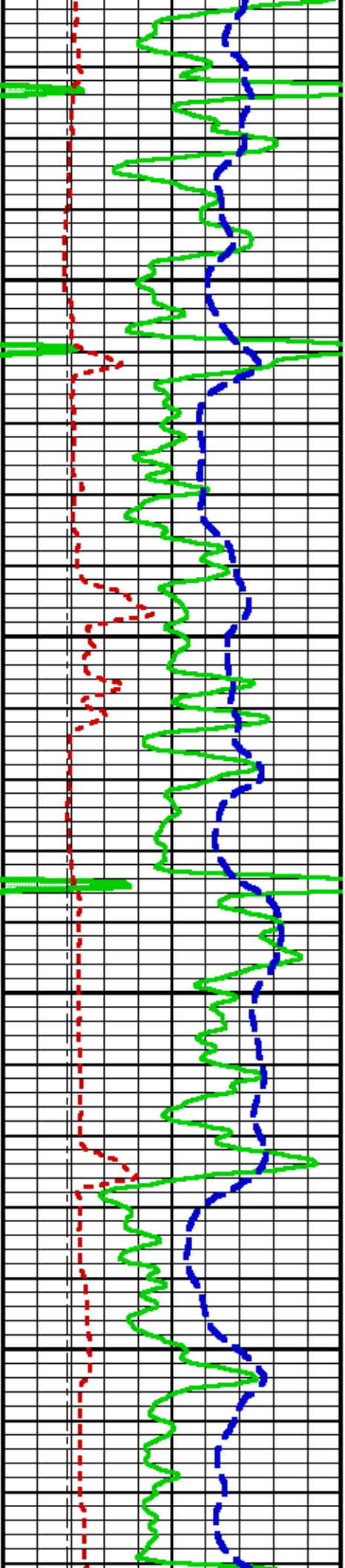
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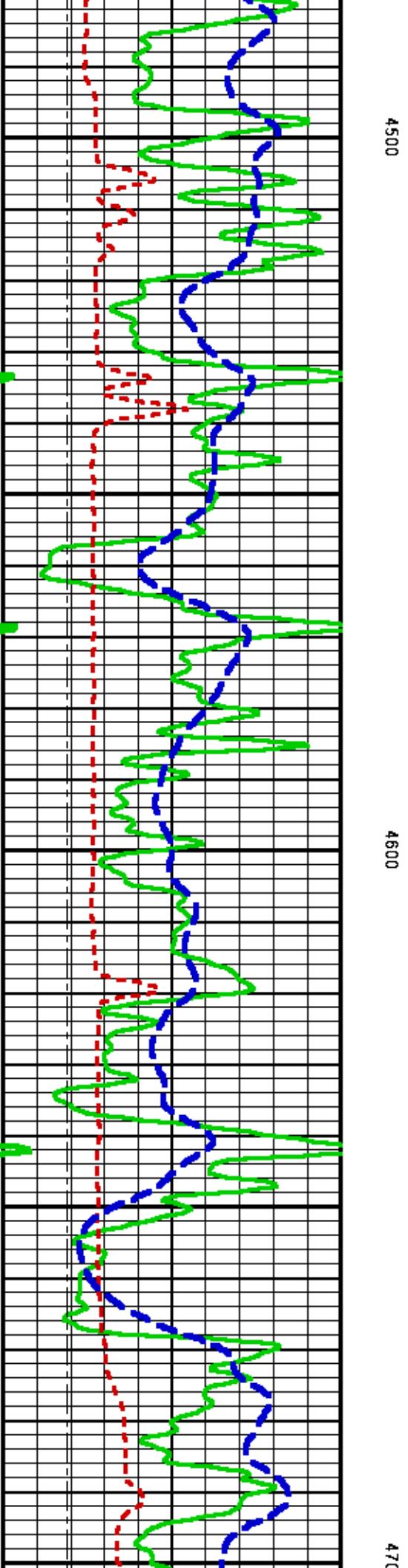
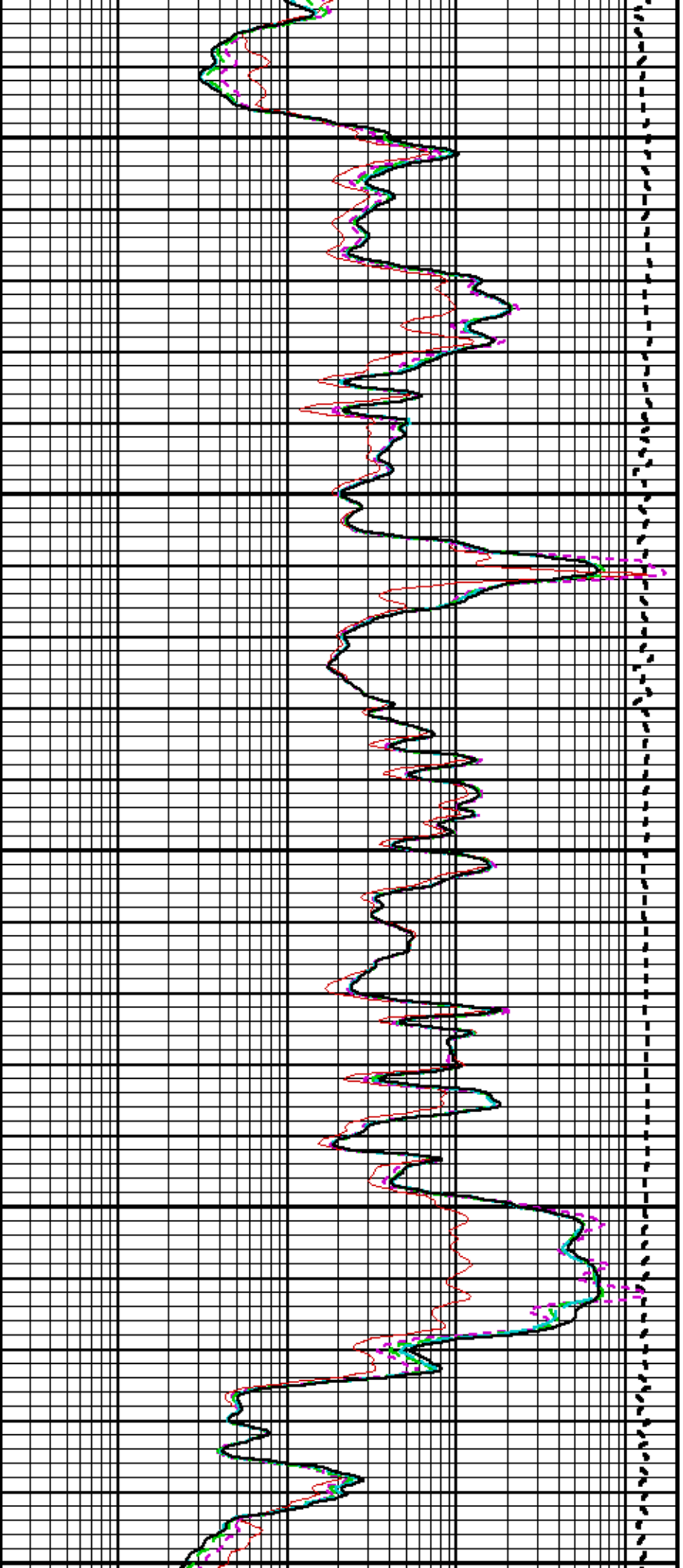


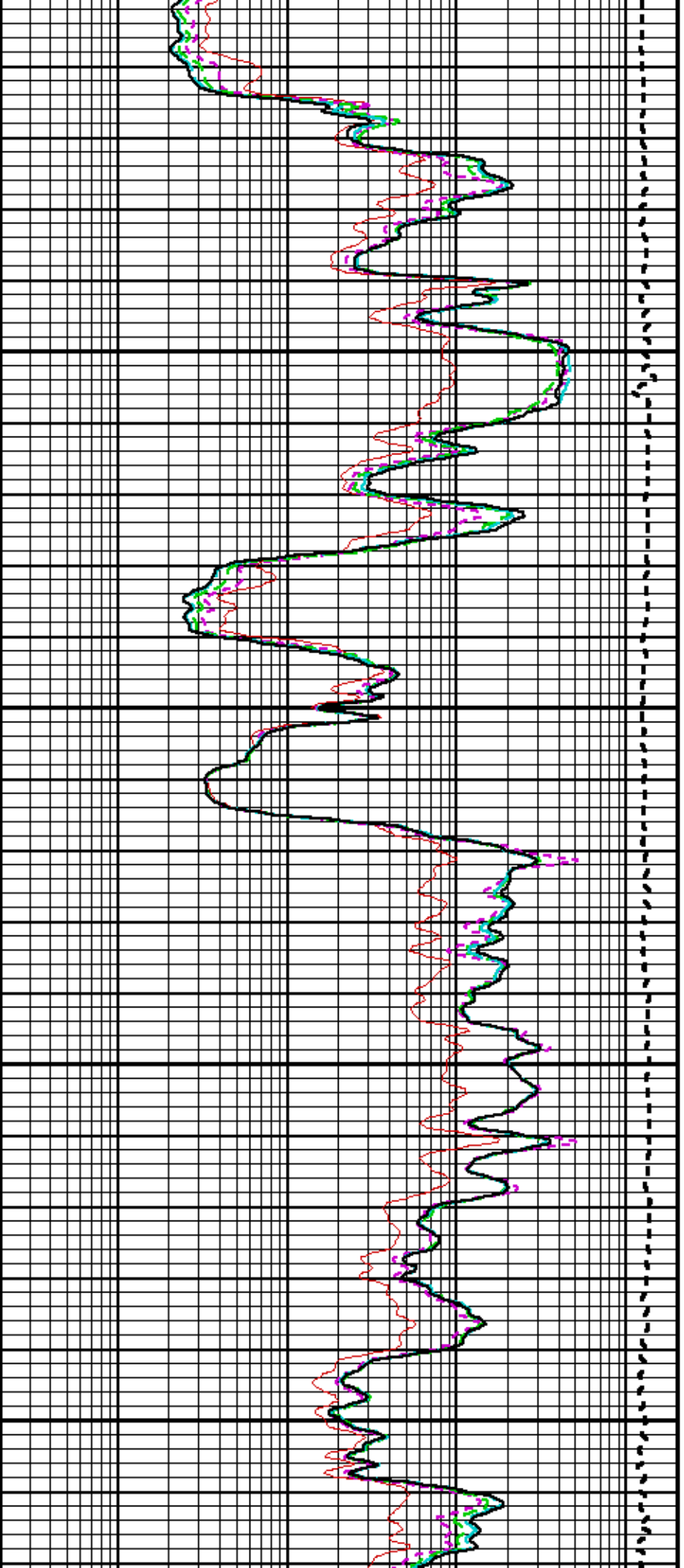


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4400



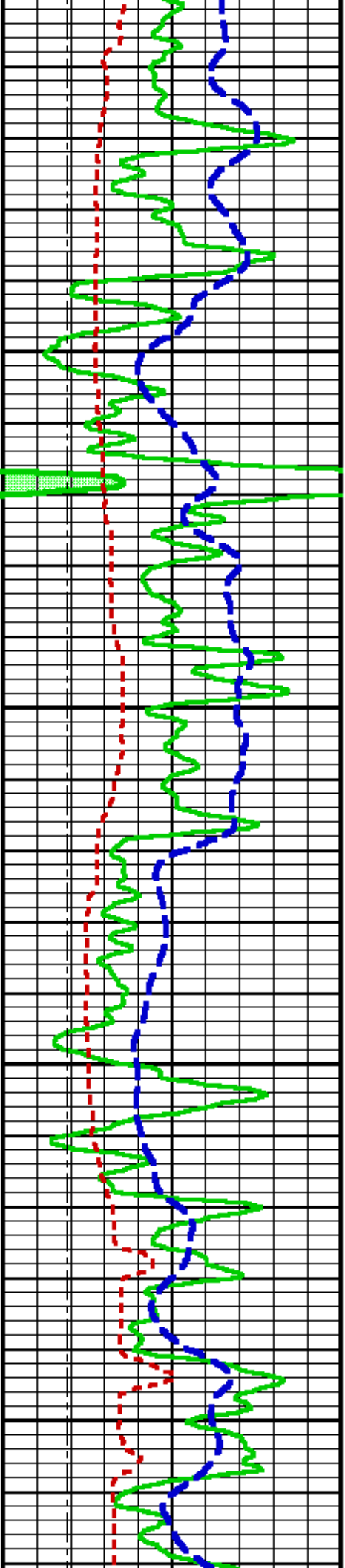


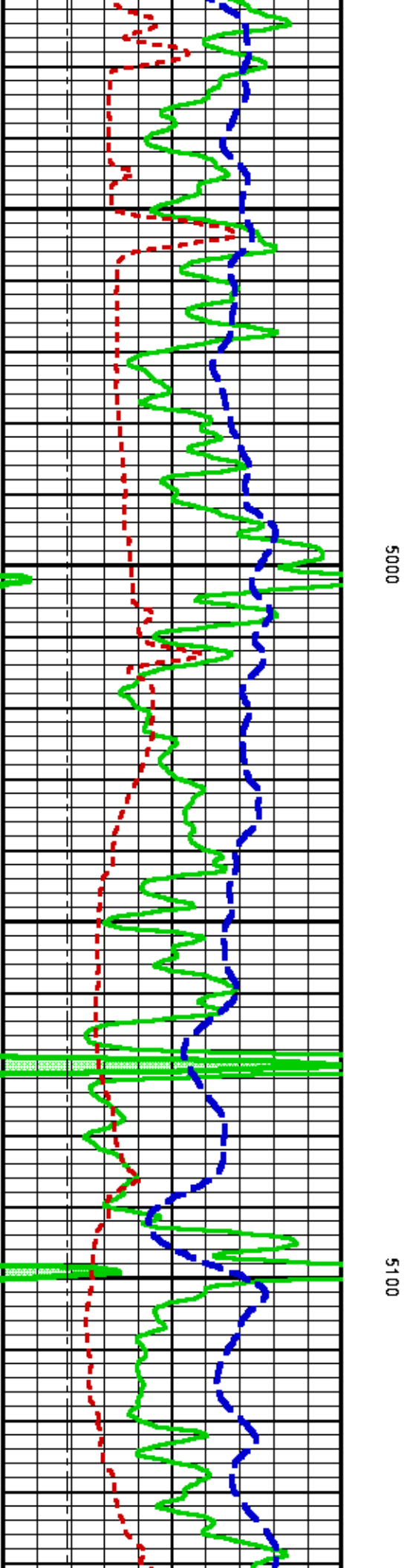
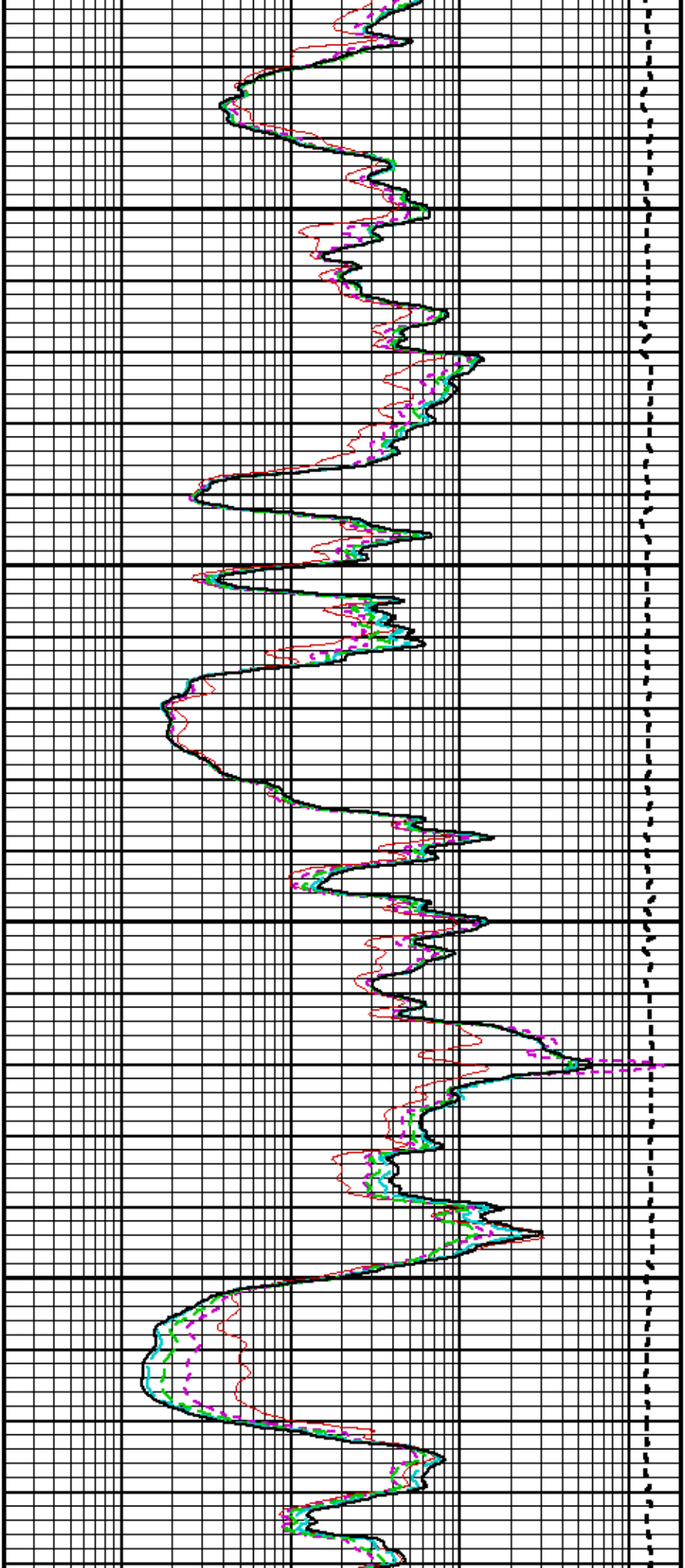


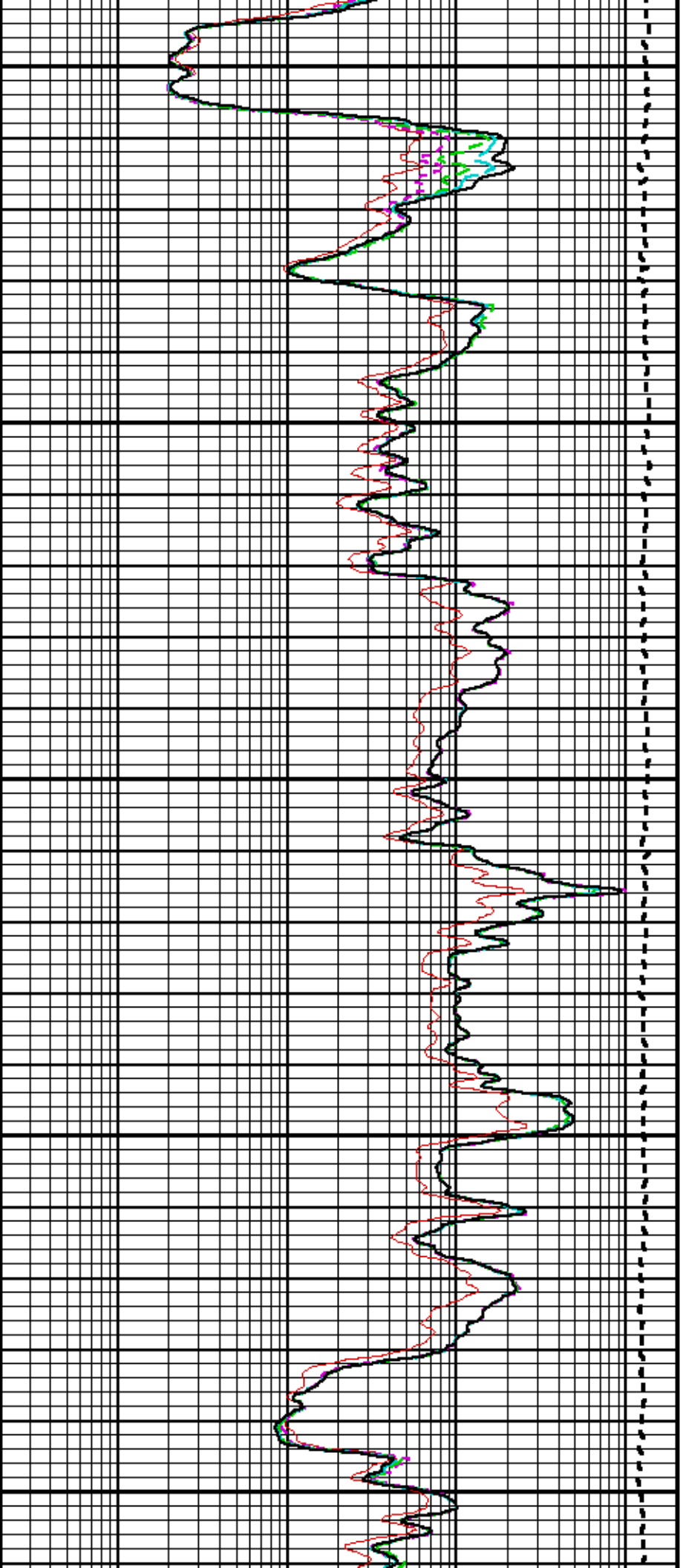
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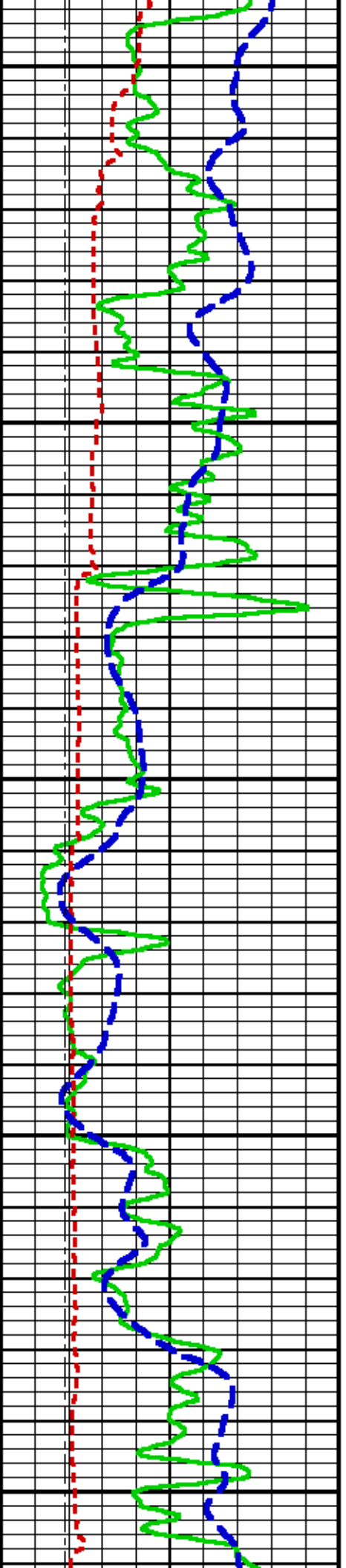


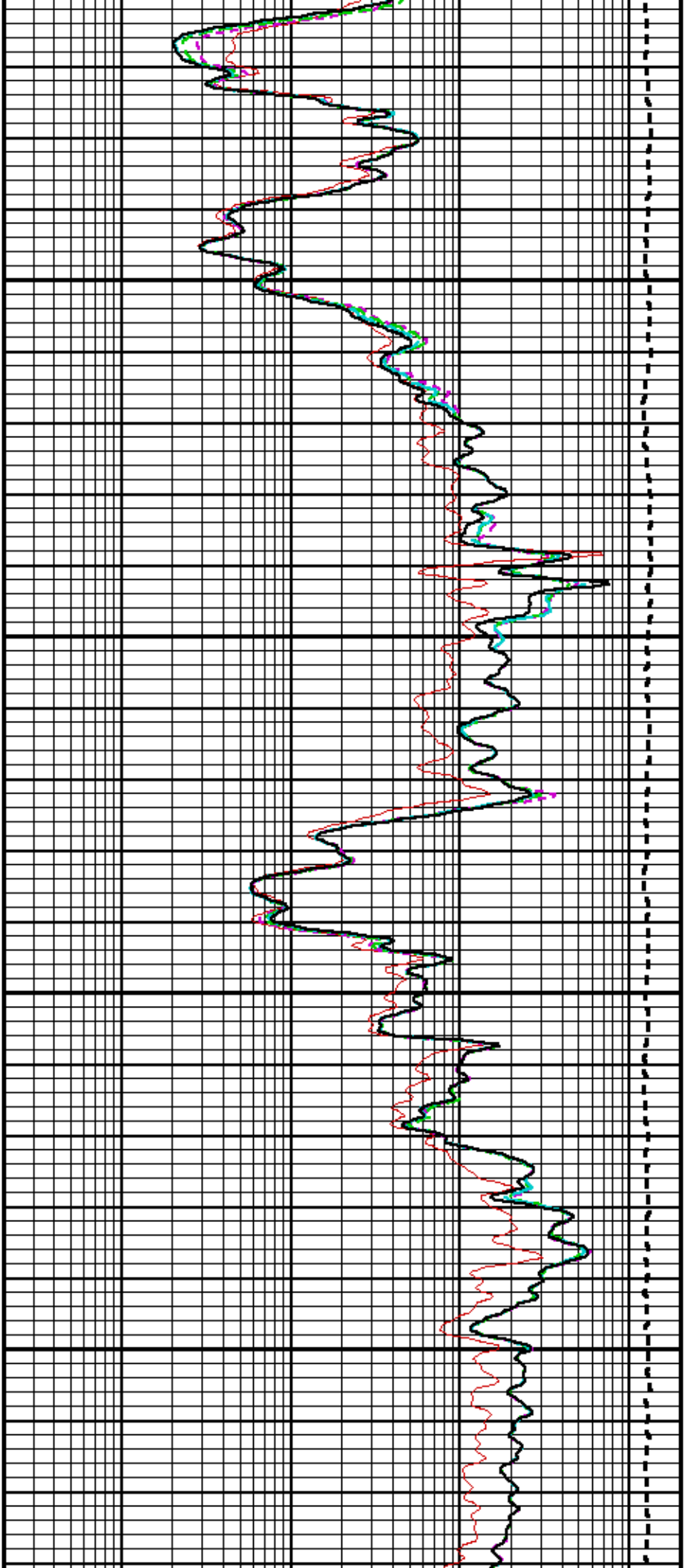




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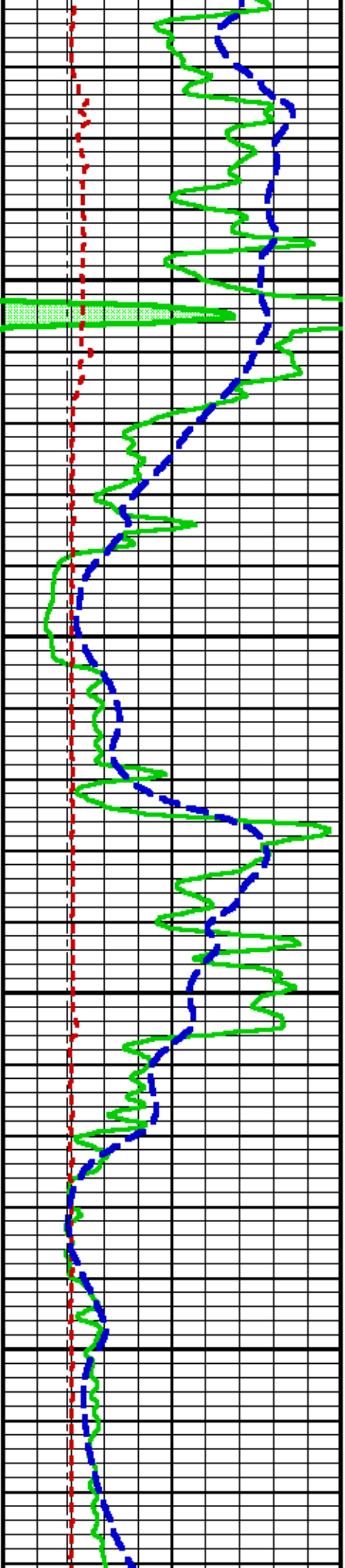
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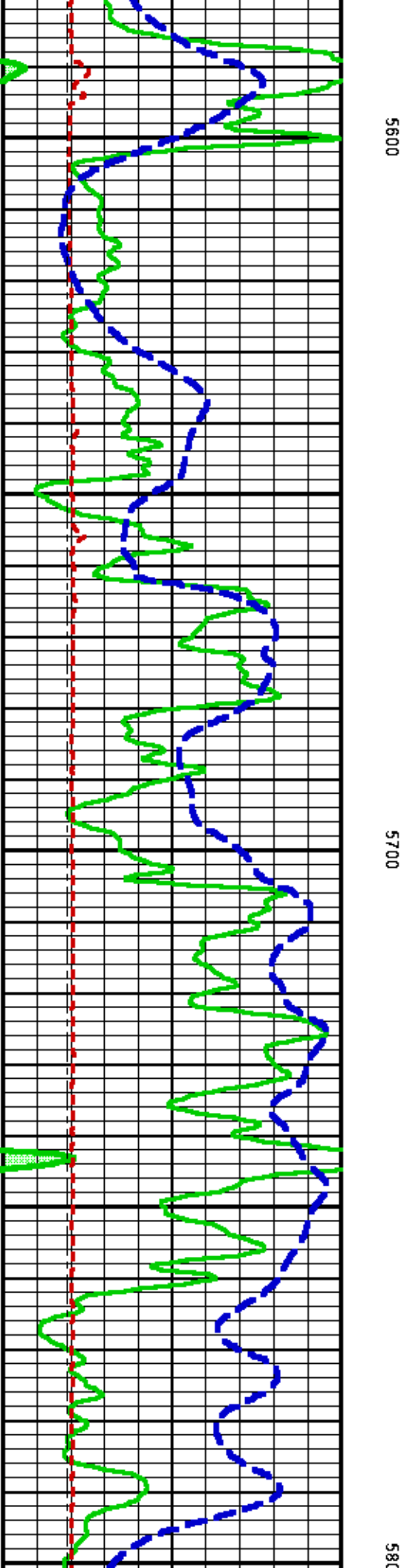
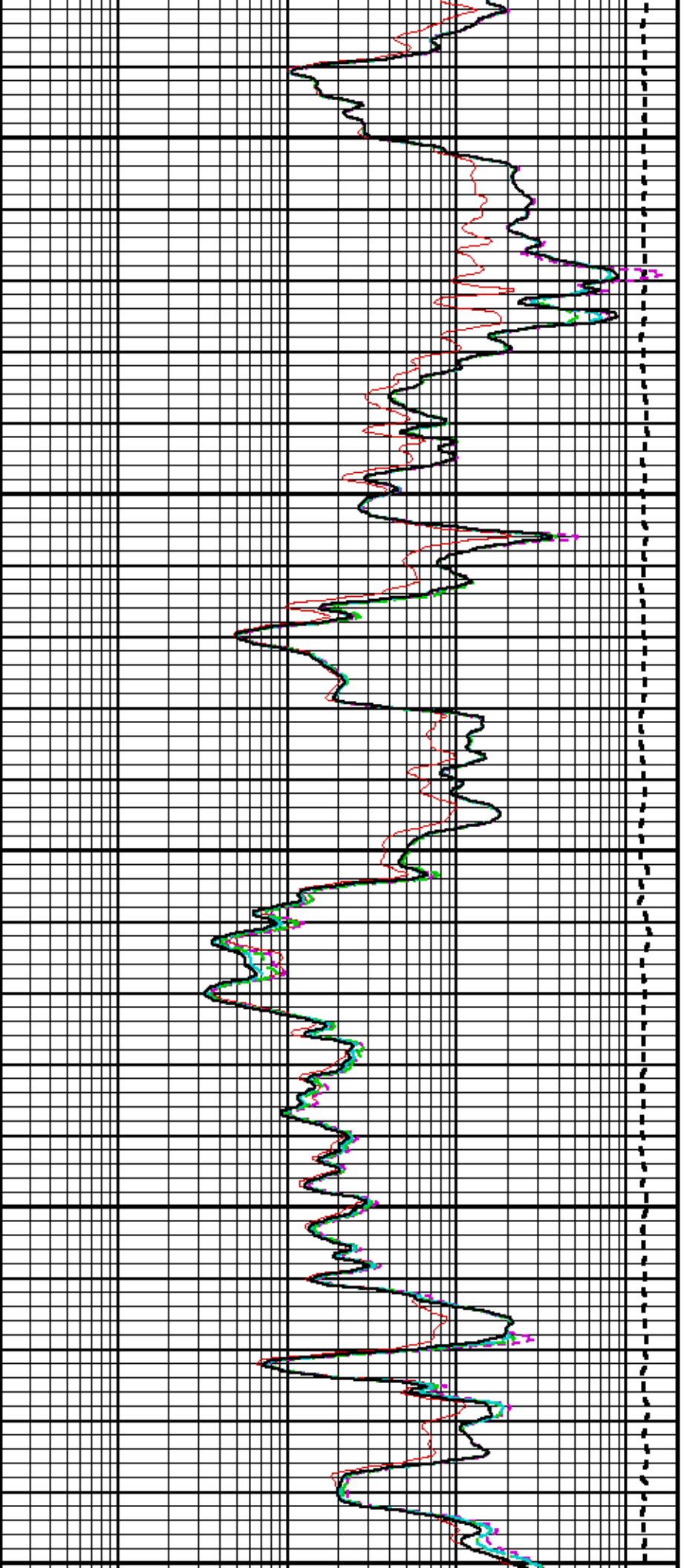


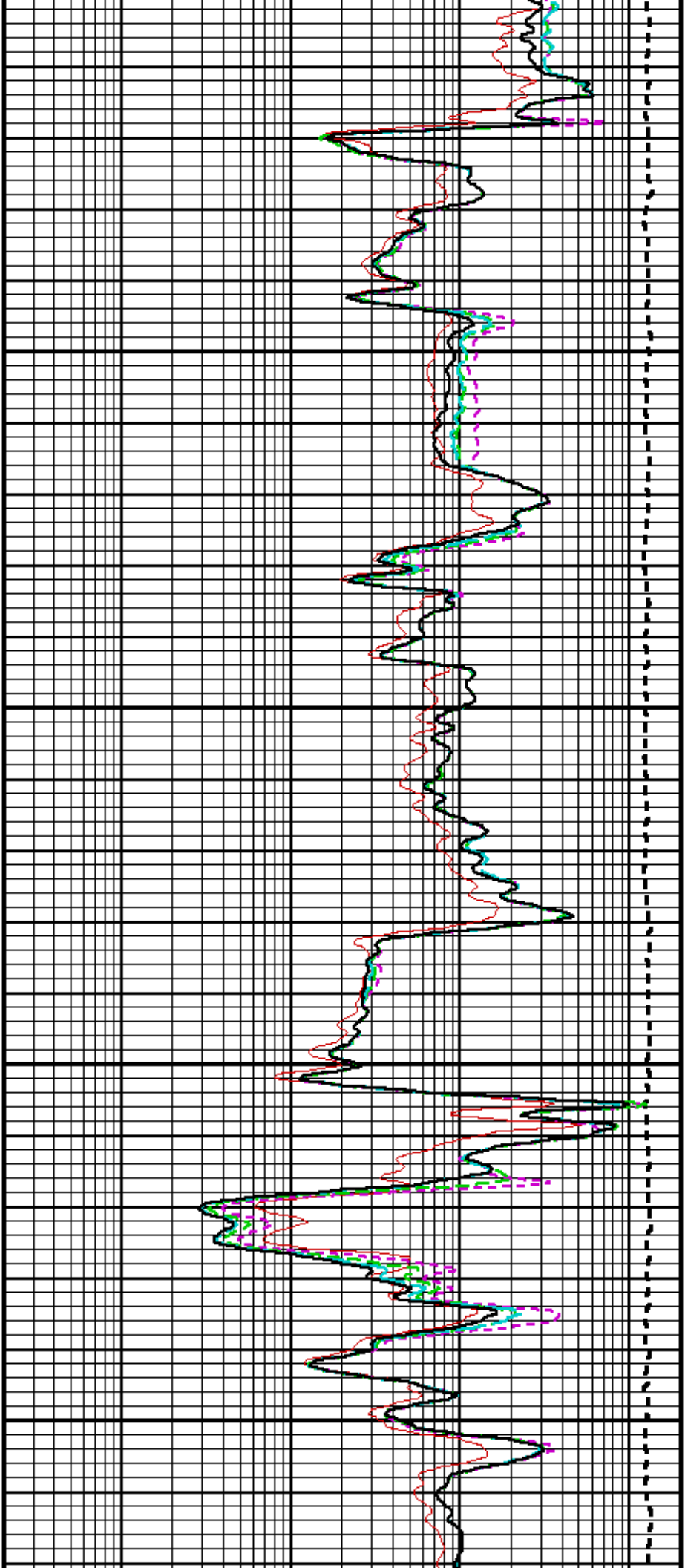


\$400

\$500



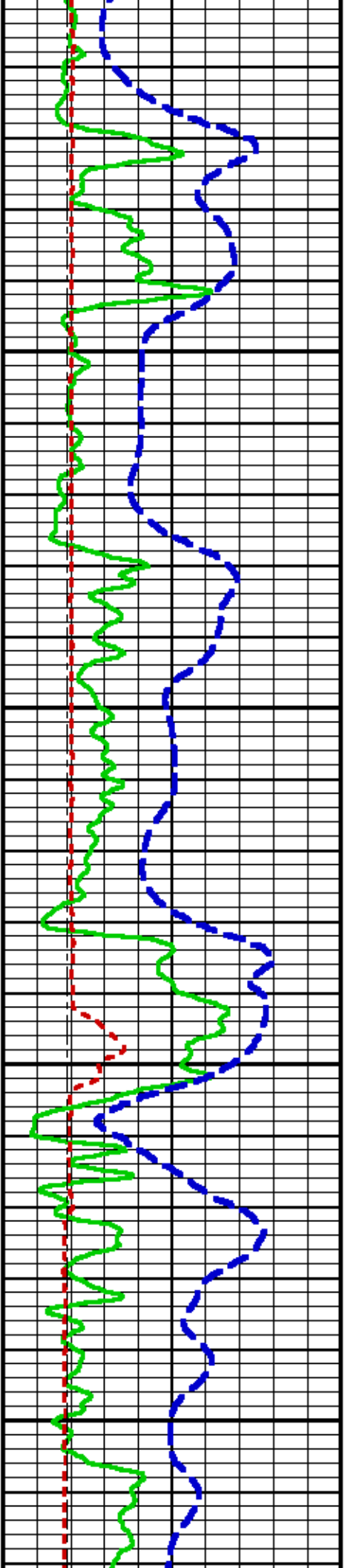


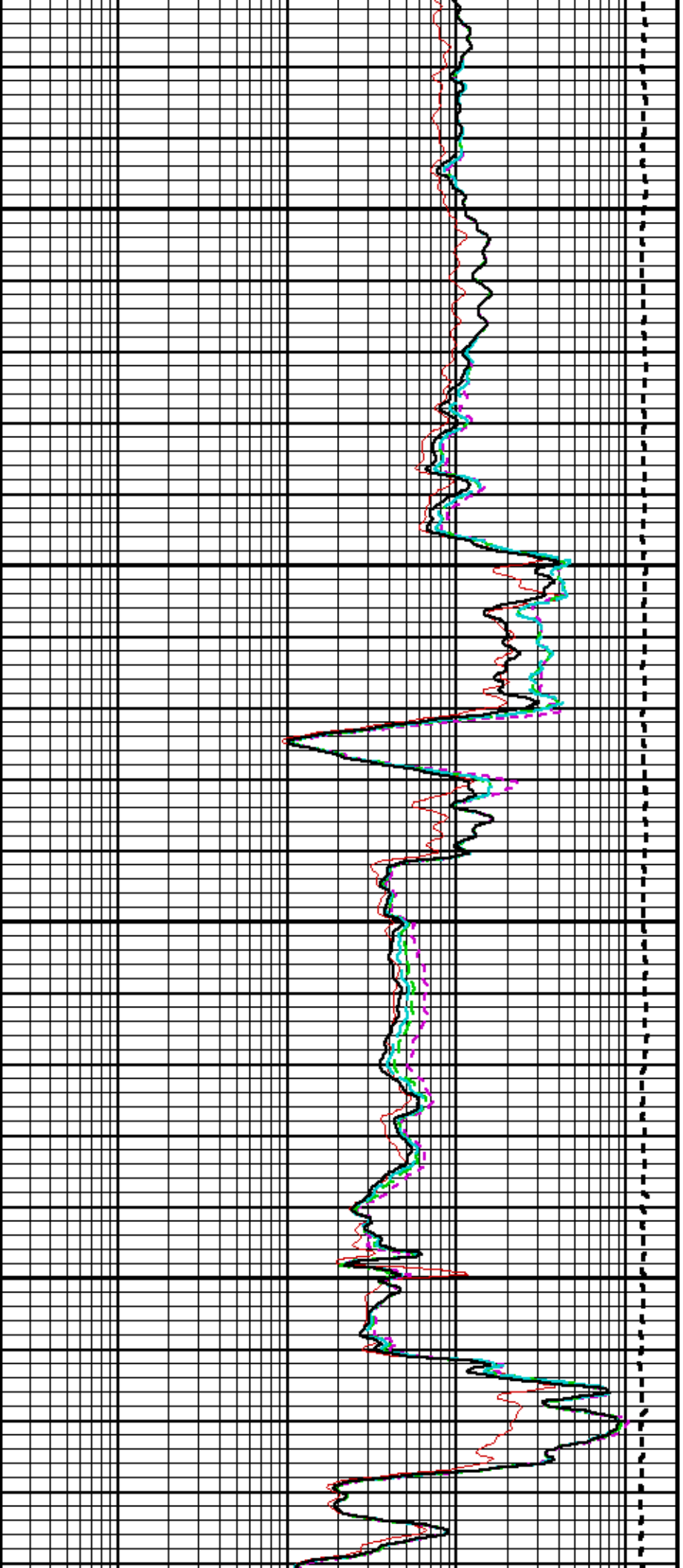


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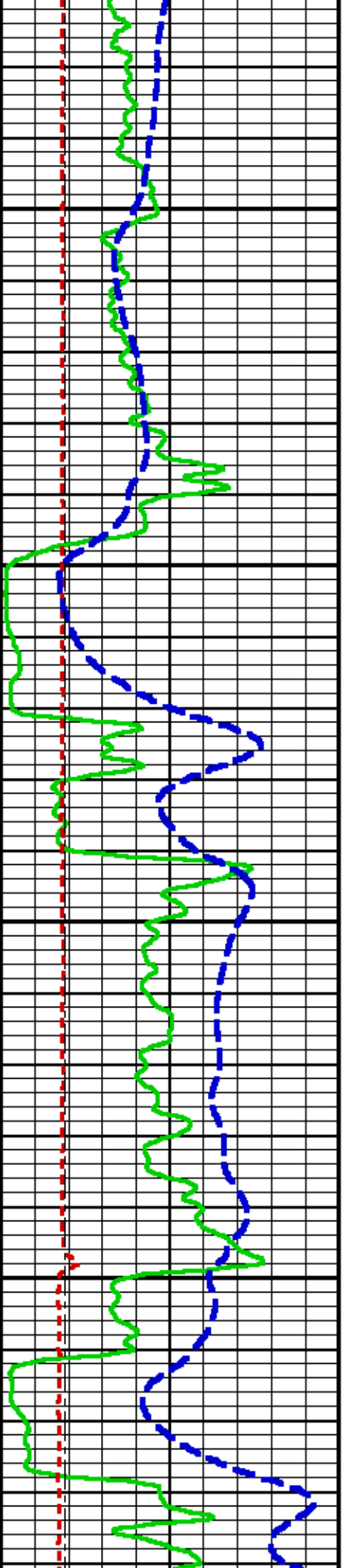
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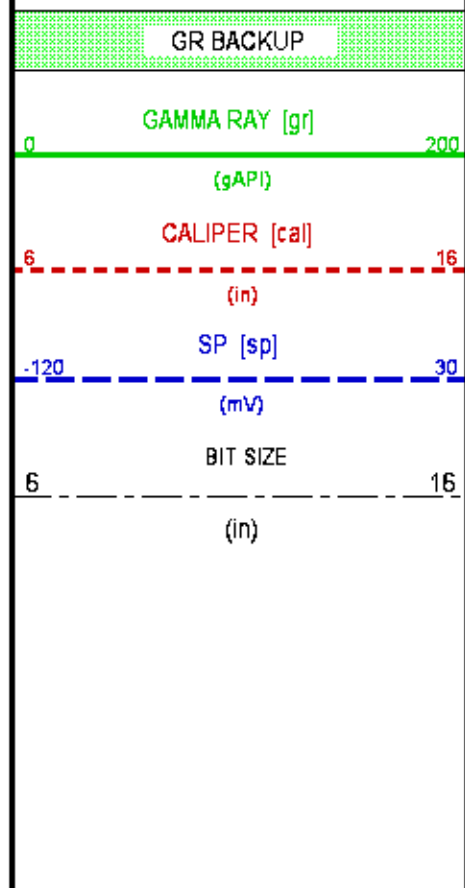
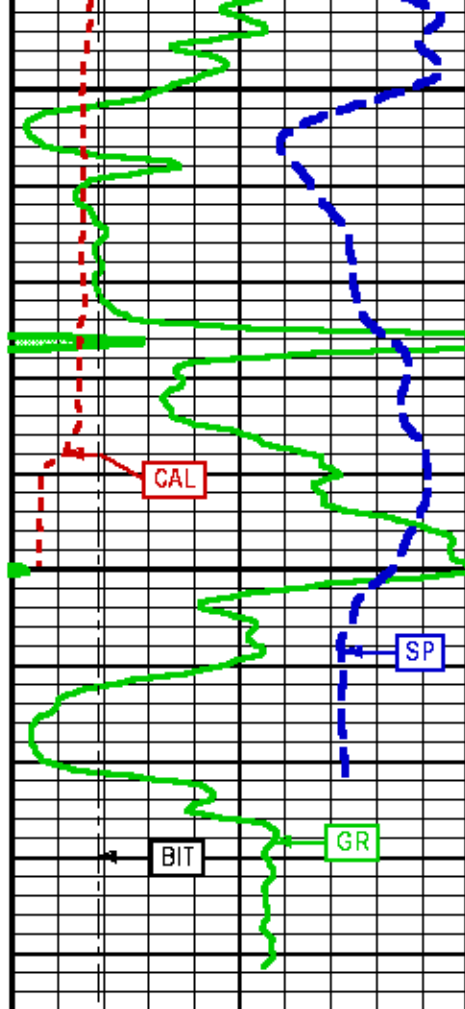




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6200

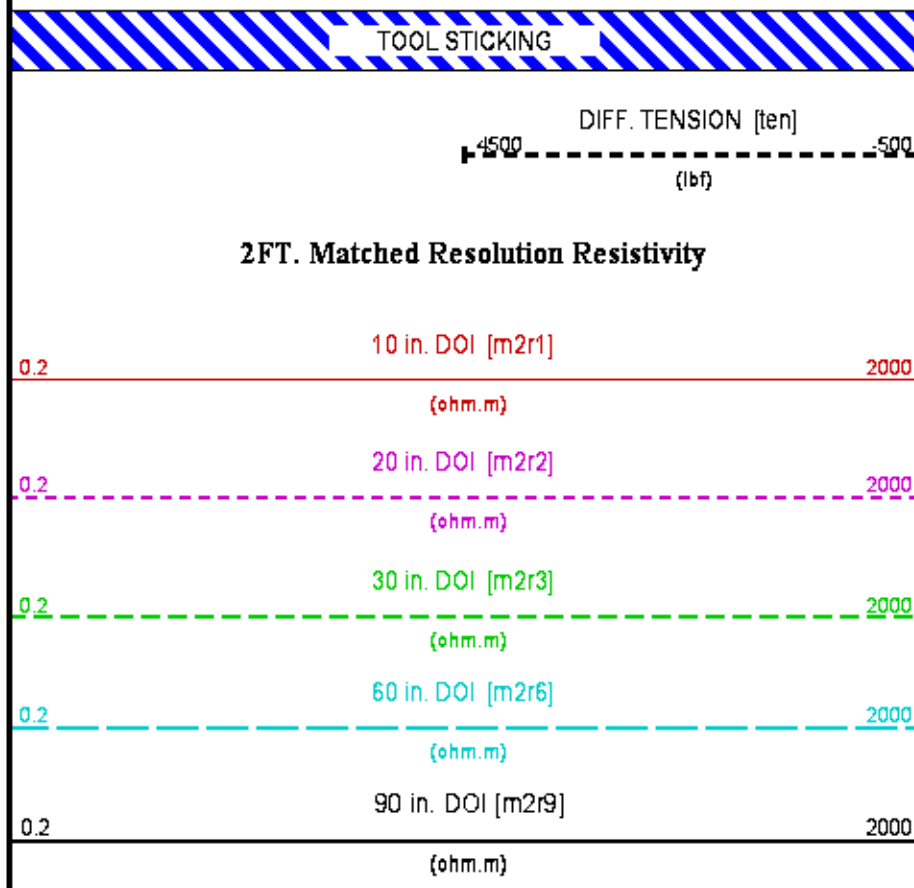
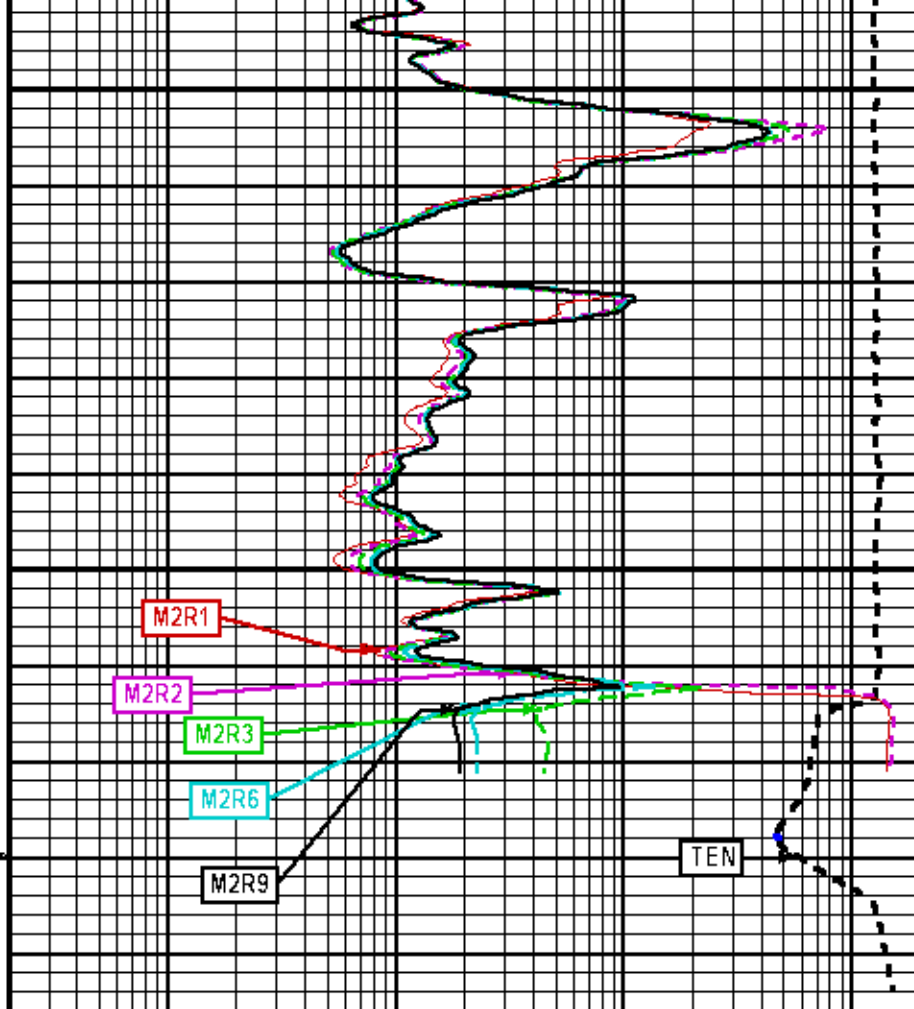




6300

TD

FEET



ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013
Patches: 3

Plotted: Sat Nov 23 19:58:04 2013

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/625268/n777q01.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 5806.451 ft BOTTOM DEPTH: 6346.751 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
TTRM	FILTER ()	medium (1)		TOP	BOTTOM
	FILTER (.h)	medium (1)		"	"
	FILTER (.i)	medium (1)		"	"
Y AXIS CALIPER	FILTER ()	medium (1)		"	"
TENSION	FILTER ()	medium (1)		"	"
GR	FILTER ()	medium (1)		"	"
	FILTER (.h)	medium (1)		"	"
CALIPER	FILTER ()	medium (1)		"	"
	FILTER (.h)	medium (1)		"	"
	FILTER (.i)	medium (1)		"	"
SP-SPDH	FILTER ()	heavy (3)		"	"
	FILTER (.h)	heavy (3)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
BIT SIZE	BIT SIZE	7.875	in	TOP	BOTTOM
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	64.0	degF	"	"
	MUD SAMPLE RES	0.720	ohm.m	"	"
BOREHOLE TEMP from GRADIENT	Known BH REF TEMP	64.0	degF	"	"
	at BH REF DEPTH	0.0	ft	"	"
	with TEMP GRADIENT	1.200	0.01 degF/ft	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (mbh*)	7.875	in	"	"
BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	TOOL MEASURED		"	"

SP CONTROL

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
SP CONTROL	Tool/Bridge	TOOL		TOP	BOTTOM

HDIL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
HDIL TEMPERATURE CORRECTION	TEMP CORR SOURCE	USE RXTEMP		TOP	BOTTOM
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		"	"
	ABC to CALCULATE	STANDOFF		"	"
	STANDOFF	1.50	in	"	"
	TOOL POSITION	ECCENTERED		"	"
	Rmud MULTIPLIER	1.000		"	"

CURVE DESCRIPTION REPORT

CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:BIT	Nov 23 16:52:52 2013	BIT SIZE
F1:CAL	Nov 23 16:52:52 2013	CALIPER
F1:GR	Nov 23 16:52:52 2013	GAMMA RAY
F1:M2R1	Nov 23 16:52:52 2013	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 10-INCH DOI
F1:M2R2	Nov 23 16:52:52 2013	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 20-INCH DOI
F1:M2R3	Nov 23 16:52:52 2013	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 30-INCH DOI
F1:M2R6	Nov 23 16:52:52 2013	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 60-INCH DOI
F1:M2R9	Nov 23 16:52:52 2013	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 90-INCH DOI

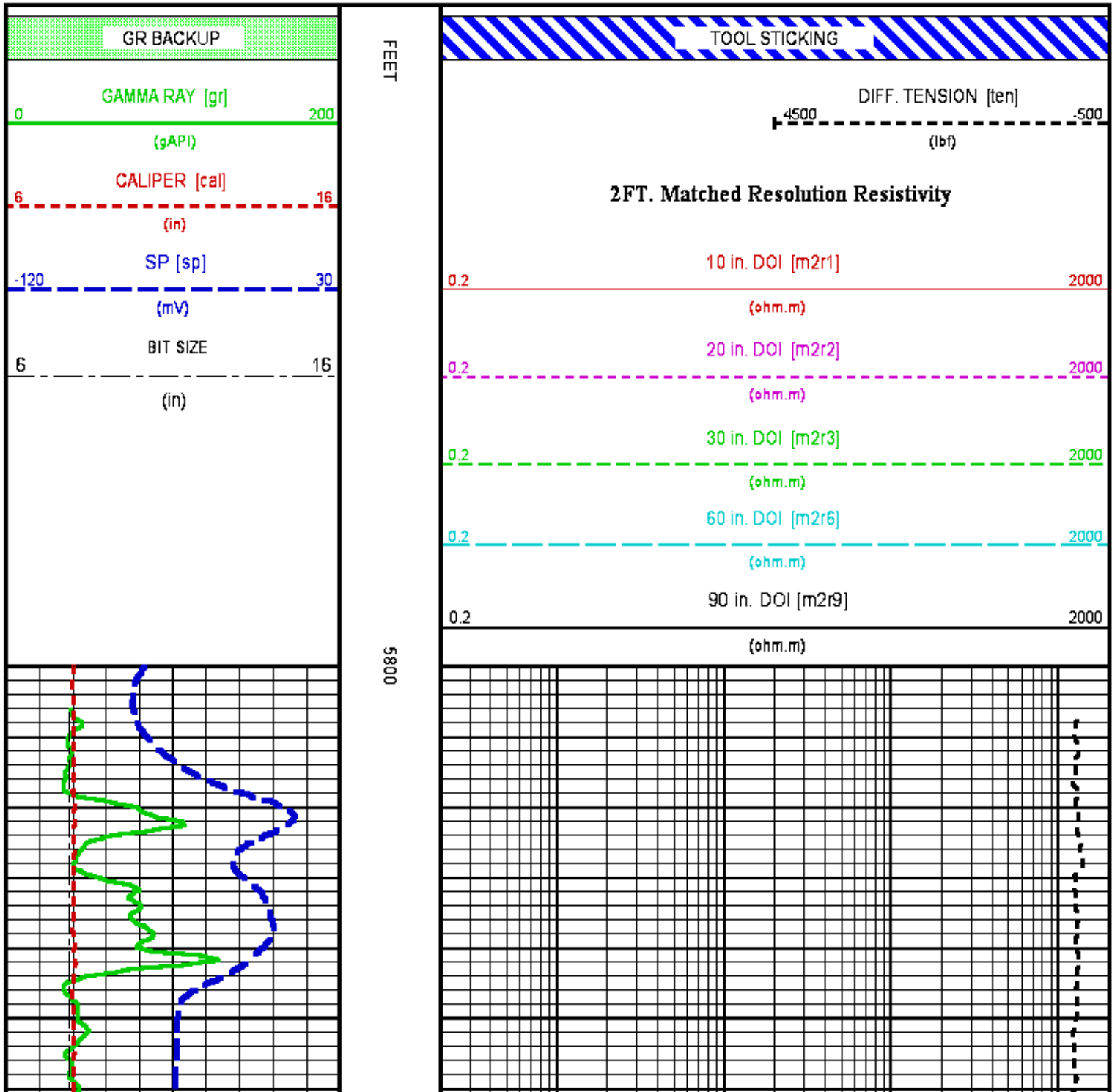
F1:SP
F1:TEN
Nov 23 16:52:52 2013
Nov 23 16:52:52 2013
SPONTANEOUS POTENTIAL
DIFFERENTIAL TENSION

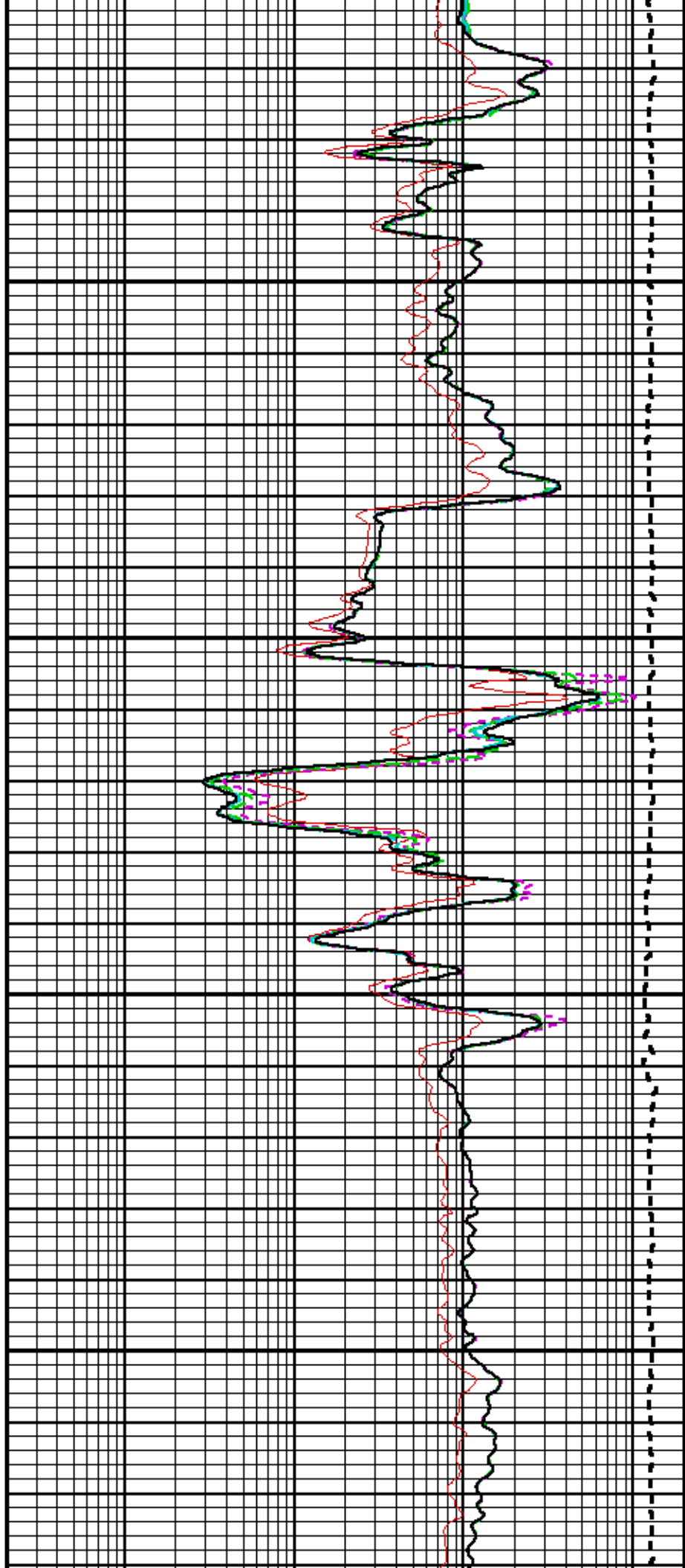
CURVE MEASURE POINT OFFSET

CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
BIT	0.00	M2R1	15.25	M2R6	15.25	TEN	0.00
CAL	42.00	M2R2	15.25	M2R9	15.25		
GR	1.50	M2R3	15.25	SP	21.25		

Presentation : HL6670:/dat1a/625268/HDIL-REPEAT.fvpdf [5"/100' Scale]
Plot Interval : 5800 - 6345 Feet

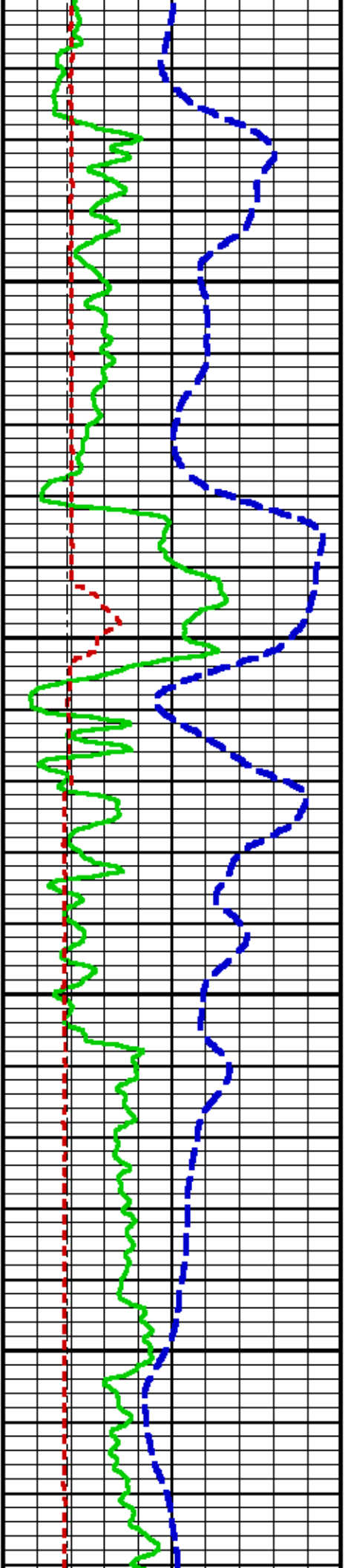
Data File 1 : F1 : HL6670:/dat1a/625268/n777q01-REPEAT.xtf
Created On : Nov 23 16:52:52 2013
Company : DJ SIMMONS, INC
Well : PINTO #1-7
Field : PAPOOSE CANYON
File Interval : 5 - 6345 Feet
OCT : n777q

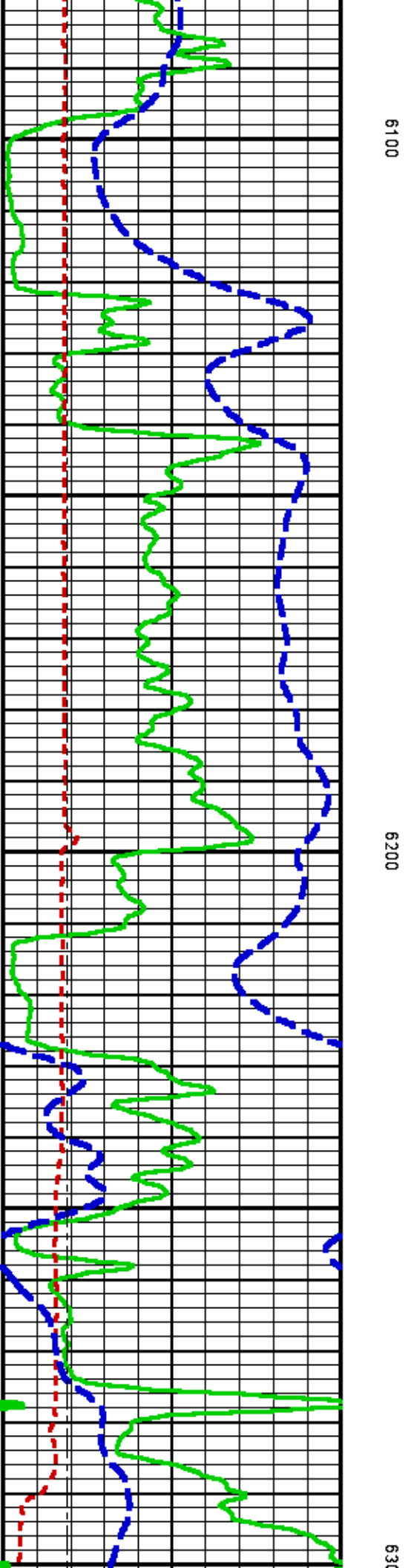
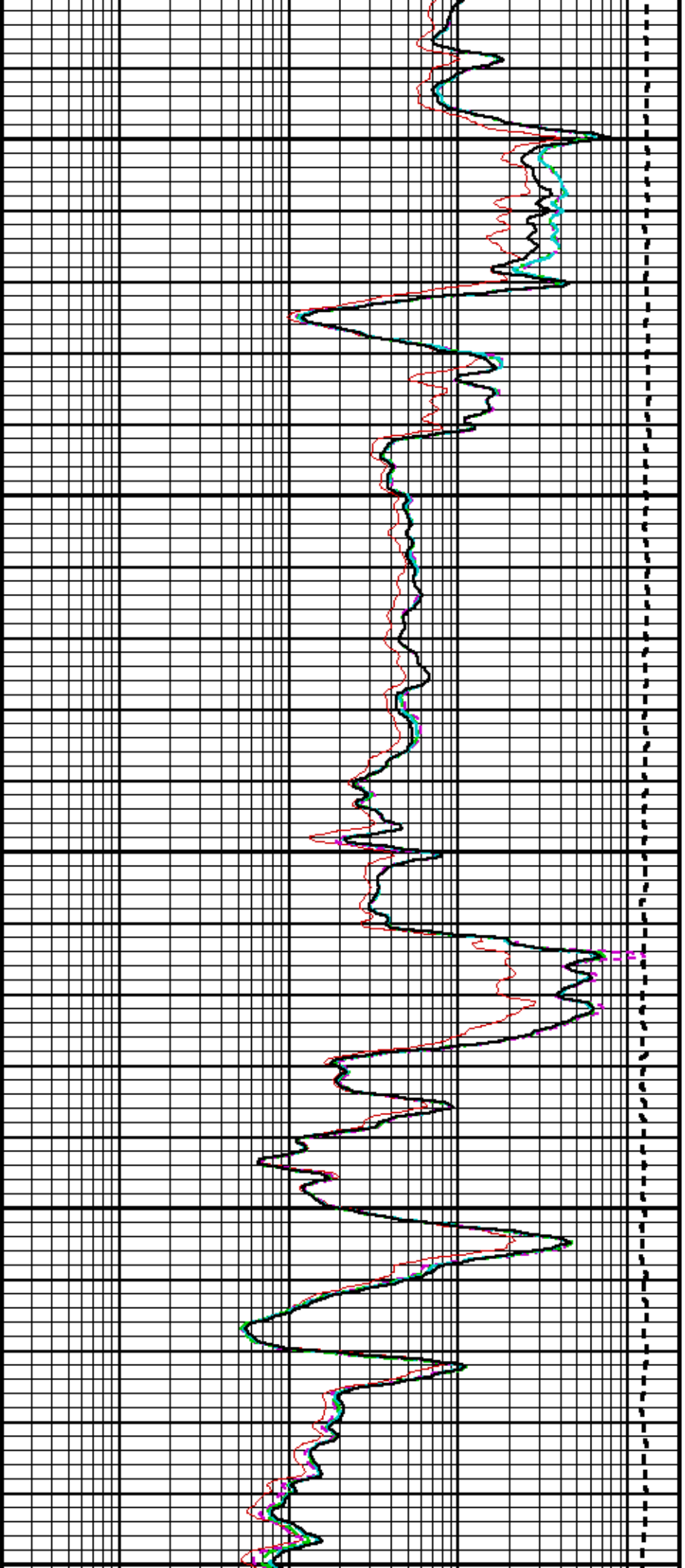


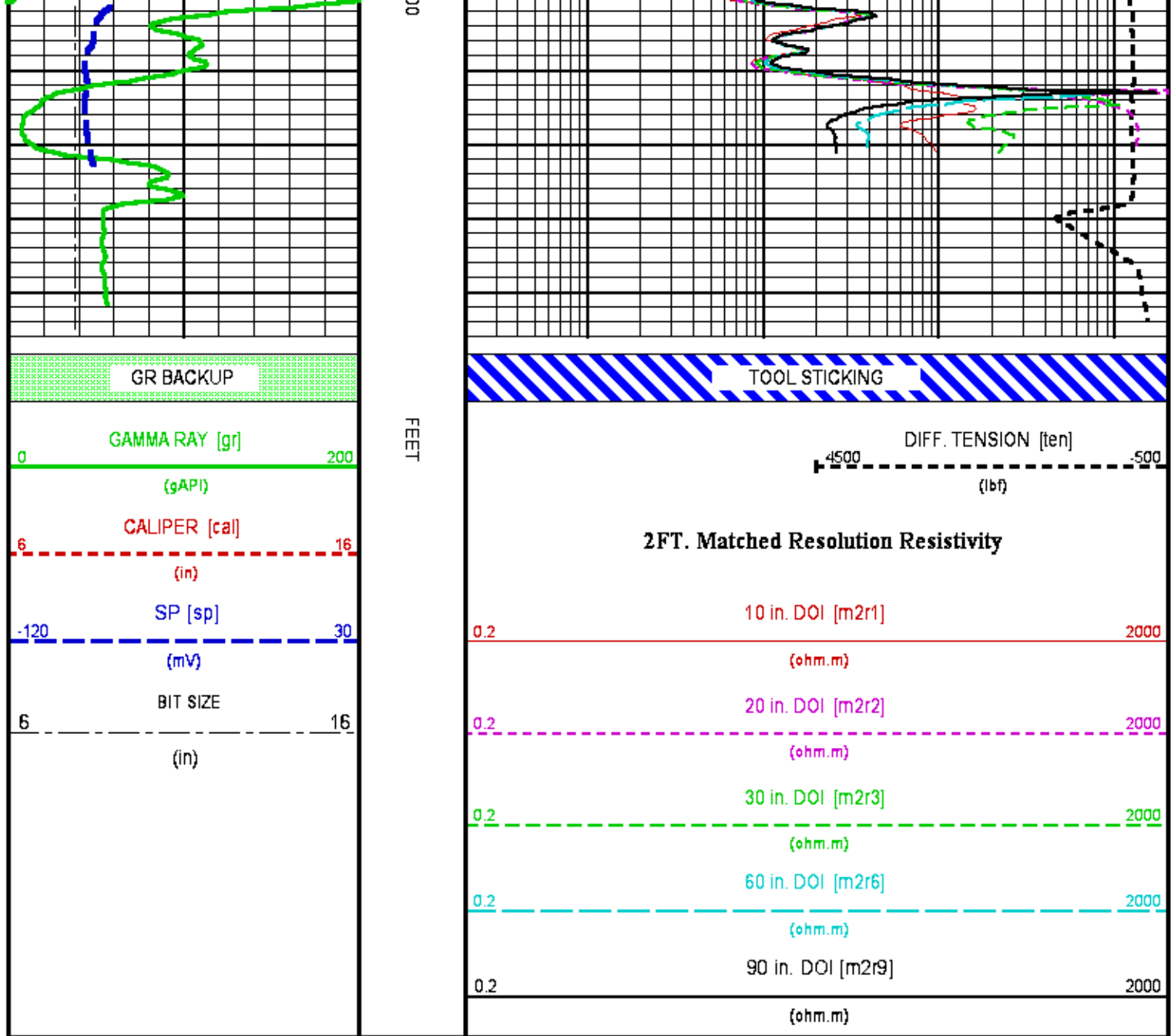


5900

6000







CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/625268/n777q-NO-GR.tp1

HDIL PRIMARY CALIBRATION SUMMARY

TOOL #: 1515MA 10037719

DATE/TIME PERFORMED: Mon Nov 11 11:40:28 2013

UNIT #: 3880TA HL667D

GRCOND ID & DATE: 126 083096

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	-0.012 -0.200 0.200	-0.004 -0.100 0.100	-0.003 -0.100 0.100	-0.004 -0.100 0.100	-0.006 -0.100 0.100	-0.002 -0.100 0.100	-0.003 -0.100 0.100	-0.007 -0.100 0.100
Coil 0 Q	0.007 -1.000 1.000	0.010 -0.200 0.200	0.001 -0.100 0.100	0.000 -0.100 0.100	0.003 -0.100 0.100	0.001 -0.100 0.100	-0.000 -0.100 0.100	0.001 -0.100 0.100
Coil 1 R	0.002 -0.200 0.200	0.001 -0.100 0.100	-0.001 -0.100 0.100	0.004 -0.100 0.100	0.003 -0.100 0.100	-0.000 -0.100 0.100	-0.003 -0.100 0.100	-0.005 -0.100 0.100
Coil 1 Q	-0.006 -1.000 1.000	-0.004 -0.200 0.200	-0.004 -0.100 0.100	0.002 -0.100 0.100	0.002 -0.100 0.100	0.003 -0.100 0.100	0.003 -0.100 0.100	0.002 -0.100 0.100

Coil 2 R	-0.003 -0.200 0.200	0.004 -0.100 0.100	0.004 -0.100 0.100	0.001 -0.100 0.100	0.003 -0.100 0.100	0.007 -0.100 0.100	0.006 -0.100 0.100	0.009 -0.100 0.100
Coil 2 Q	0.001 -1.000 1.000	-0.000 -0.200 0.200	0.002 -0.100 0.100	-0.001 -0.100 0.100	-0.004 -0.100 0.100	-0.003 -0.100 0.100	-0.006 -0.100 0.100	-0.005 -0.100 0.100
Coil 3 R	0.007 -0.100 0.100	0.002 -0.100 0.100	0.001 -0.100 0.100	0.005 -0.100 0.100	0.005 -0.100 0.100	0.003 -0.100 0.100	0.000 -0.100 0.100	0.002 -0.100 0.100
Coil 3 Q	-0.011 -0.500 0.500	-0.010 -0.200 0.200	-0.001 -0.100 0.100	0.001 -0.100 0.100	-0.000 -0.100 0.100	0.001 -0.100 0.100	0.002 -0.100 0.100	-0.002 -0.100 0.100
Coil 4 R	-0.022 -0.200 0.200	-0.004 -0.200 0.200	-0.004 -0.200 0.200	-0.004 -0.200 0.200	-0.002 -0.200 0.200	0.004 -0.200 0.200	-0.002 -0.200 0.200	0.001 -0.200 0.200
Coil 4 Q	-0.005 -1.000 1.000	0.002 -0.400 0.400	-0.007 -0.200 0.200	-0.001 -0.200 0.200	-0.005 -0.200 0.200	-0.007 -0.200 0.200	-0.005 -0.200 0.200	0.001 -0.200 0.200
Coil 5 R	-0.005 -0.400 0.400	0.009 -0.400 0.400	0.001 -0.400 0.400	0.011 -0.400 0.400	0.013 -0.400 0.400	-0.001 -0.400 0.400	-0.005 -0.400 0.400	0.001 -0.400 0.400
Coil 5 Q	-0.010 -2.000 2.000	0.005 -0.600 0.600	-0.000 -0.400 0.400	0.002 -0.400 0.400	0.006 -0.400 0.400	0.005 -0.400 0.400	0.001 -0.400 0.400	-0.001 -0.400 0.400
Coil 6 R	-0.007 -1.000 1.000	-0.011 -1.000 1.000	-0.021 -1.000 1.000	-0.003 -1.000 1.000	-0.014 -1.000 1.000	-0.001 -1.000 1.000	0.021 -1.000 1.000	0.030 -1.000 1.000
Coil 6 Q	-0.022 -5.000 5.000	0.004 -2.000 2.000	-0.005 -1.000 1.000	-0.012 -1.000 1.000	-0.023 -1.000 1.000	-0.009 -1.000 1.000	-0.013 -1.000 1.000	-0.010 -1.000 1.000

ELEC. GAINS

	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil Q M	126.04 100.00 150.00	124.54 100.00 150.00	121.62 96.00 150.00	117.37 96.00 140.00	112.01 92.00 140.00	105.55 87.00 130.00	98.09 82.00 120.00	89.90 76.00 110.00
Coil Q P	7.573 6.000 9.000	23.863 19.000 26.000	39.853 32.000 47.000	55.822 44.000 66.000	71.853 57.000 86.000	87.574 70.000 100.000	103.376 82.000 120.000	119.216 96.000 140.000
Coil 1 M	218.49 180.00 270.00	215.91 180.00 270.00	210.86 170.00 260.00	203.52 170.00 250.00	194.26 160.00 250.00	183.03 160.00 230.00	170.24 150.00 230.00	155.89 140.00 200.00
Coil 1 P	7.669 6.000 9.000	24.164 19.000 26.000	40.386 32.000 48.000	56.579 45.000 67.000	72.632 57.000 86.000	88.774 70.000 110.000	104.792 83.000 120.000	120.926 96.000 140.000
Coil 2 M	439.52 360.00 540.00	434.44 360.00 540.00	424.57 360.00 530.00	410.21 340.00 510.00	392.00 330.00 500.00	369.59 310.00 470.00	343.91 300.00 440.00	315.17 270.00 410.00
Coil 2 P	7.850 6.000 9.000	24.673 19.000 26.000	41.262 32.000 48.000	57.793 45.000 67.000	74.240 58.000 87.000	90.797 71.000 110.000	107.201 84.000 130.000	123.755 96.000 140.000
Coil 3 M	711.05 580.00 880.00	702.16 580.00 870.00	684.85 570.00 850.00	659.55 560.00 830.00	627.52 530.00 800.00	590.10 500.00 760.00	547.27 470.00 710.00	501.57 440.00 660.00
Coil 3 P	7.707 6.000 10.000	24.303 20.000 26.000	40.587 33.000 48.000	56.789 46.000 66.000	72.777 59.000 89.000	88.818 72.000 110.000	104.559 86.000 130.000	120.317 98.000 150.000
Coil 4 M	1138.1 900.0 1400.0	1121.5 900.0 1300.0	1089.4 900.0 1300.0	1043.9 850.0 1300.0	987.8 800.0 1200.0	923.5 800.0 1200.0	853.4 750.0 1100.0	779.7 700.0 1000.0
Coil 4 P	7.949 6.000 10.000	25.031 20.000 30.000	41.689 33.000 50.000	58.197 46.000 70.000	74.359 60.000 90.000	90.442 73.000 110.000	106.127 86.000 130.000	121.790 98.000 150.000
Coil 5 M	2365.0 1800.0 2800.0	2334.7 1800.0 2800.0	2275.5 1800.0 2700.0	2190.3 1800.0 2600.0	2082.5 1700.0 2500.0	1954.7 1600.0 2400.0	1811.2 1500.0 2200.0	1656.9 1400.0 2100.0
Coil 5 P	8.213 6.000 10.000	25.805 20.000 31.000	43.088 34.000 51.000	60.283 48.000 72.000	77.270 62.000 93.000	94.262 76.000 110.000	110.977 89.000 130.000	127.702 100.000 150.000
Coil 6 M	6035.4 4700.0 7100.0	5956.8 4700.0 7000.0	5804.9 4600.0 6900.0	5585.1 4400.0 6600.0	5307.7 4300.0 6400.0	4980.1 4000.0 6000.0	4606.5 3700.0 5600.0	4204.9 3400.0 5100.0
Coil 6 P	8.132 7.000 10.000	25.834 22.000 32.000	43.166 36.000 54.000	60.420 51.000 76.000	77.476 65.000 96.000	94.545 80.000 120.000	111.336 94.000 140.000	128.179 110.000 160.000

AM Factor

	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil Q R	481 -200 800	-85 -500 200	-142 -600 100	-154 -600 50	-155 -500 20	-154 -500 20	-152 -500 20	-151 -500 20
Coil Q Q	2197 -3000 6000	791 -1000 2000	451 -1000 1200	294 -500 500	202 -400 700	140 -400 600	93 -400 500	57 -400 400
Coil 1 R	569 450 680	87 20 130	23 -30 60	0 -50 40	-10 -55 30	-17 -60 20	-21 -60 10	-25 -60 10
Coil 1 Q	1305 0 2500	529 0 500	344 0 600	263 0 450	217 0 350	191 0 300	172 0 250	163 0 250
Coil 2 R	188.7 140.0 230.0	27.6 0.0 51.0	6.6 -10.0 25.0	0.1 -15.0 15.0	-3.6 -16.0 10.0	-6.5 -16.0 7.0	-8.9 -16.0 5.0	-8.7 -16.0 3.0
Coil 2 Q	445.3 -200.0 1000.0	184.8 0.0 350.0	126.5 0.0 230.0	103.9 0.0 160.0	93.6 0.0 130.0	90.2 0.0 110.0	86.0 0.0 100.0	86.6 0.0 90.0
Coil 3 R	49.1 37.0 62.0	7.0 0.0 12.0	1.8 -3.0 6.0	0.2 -4.0 4.0	-0.4 -5.0 2.0	-1.1 -5.0 1.0	-2.0 -6.0 1.0	-2.9 -6.0 1.0
Coil 3 Q	80.1 -140.0 260.0	37.5 -40.0 100.0	28.9 -20.0 70.0	26.7 -10.0 60.0	26.9 -10.0 50.0	28.4 -10.0 50.0	30.1 -10.0 50.0	31.1 -10.0 50.0
Coil 4 R	10.71 2.00 18.00	0.77 -3.00 6.00	-0.41 -3.50 3.00	-0.90 -3.50 2.00	-1.07 -4.20 2.00	-1.17 -4.50 2.00	-1.52 -4.70 2.00	-1.65 -5.00 2.00
Coil 4 Q	20.45 -100.00 100.00	11.86 -30.00 50.00	11.47 -20.00 40.00	12.69 -10.00 40.00	14.34 -10.00 40.00	16.53 -10.00 45.00	18.79 -10.00 50.00	21.10 -10.00 60.00
Coil 5 R	1.87 -2.00 5.80	-0.37 -3.20 2.40	-0.46 -4.50 3.10	-0.62 -4.70 3.20	-0.76 -4.80 3.20	-0.76 -5.00 3.20	-0.49 -5.20 3.40	-0.85 -5.40 3.50
Coil 5 Q	16.13 -60.00 70.00	8.50 -20.00 30.00	8.78 -20.00 30.00	10.34 -20.00 35.00	12.13 -20.00 45.00	14.20 -20.00 50.00	15.87 -20.00 60.00	18.31 -30.00 70.00
Coil 6 R	-3.08 -4.80 1.00	-0.78 -5.70 3.80	-0.41 -6.50 4.50	-0.40 -6.50 5.40	-0.43 -7.30 5.80	-0.50 -7.50 6.00	-0.50 -7.70 6.10	-0.52 -7.90 6.30

Coil 6 Q	1.88	2.71	5.03	7.37	9.88	11.93	14.12	16.44						
	-30.00	30.00	-30.00	25.00	-30.00	50.00	-35.00	60.00	-40.00	70.00	-50.00	80.00	-60.00	100.00

MM Factor	10 KHz		30 KHz		50 KHz		70 KHz		90 KHz		110 KHz		130 KHz		150 KHz	
Coil 0 M	0.998		0.996		0.991		0.989		0.987		0.984		0.982		0.981	
	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100
Coil 0 P	0.115		0.219		0.274		0.211		0.145		0.073		0.024		-0.054	
	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000
Coil 1 M	0.983		0.981		0.976		0.974		0.972		0.969		0.967		0.965	
	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100
Coil 1 P	0.116		0.255		0.324		0.333		0.305		0.246		0.213		0.149	
	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000
Coil 2 M	1.007		1.005		1.004		1.002		1.002		1.000		0.999		0.996	
	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100
Coil 2 P	0.075		0.008		0.008		-0.015		-0.026		-0.057		-0.103		-0.104	
	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000
Coil 3 M	1.004		1.003		1.003		1.001		0.999		0.998		0.998		1.000	
	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100
Coil 3 P	0.012		0.070		0.135		0.150		0.125		0.097		0.018		0.029	
	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000
Coil 4 M	1.012		1.011		1.011		1.010		1.010		1.009		1.009		1.008	
	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100
Coil 4 P	0.055		0.105		0.119		0.189		0.192		0.212		0.159		0.151	
	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000
Coil 5 M	1.022		1.021		1.021		1.020		1.019		1.020		1.017		1.017	
	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100
Coil 5 P	0.048		-0.004		0.059		0.072		0.053		0.005		-0.050		-0.055	
	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000
Coil 6 M	1.017		1.019		1.018		1.017		1.017		1.022		1.022		1.021	
	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100
Coil 6 P	-0.016		0.088		0.037		0.124		0.022		-0.047		-0.082		-0.158	
	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000

PARMS	TCID 0	TCID 1	Cal Temp (degF)	T Factor
IDs	1.617	0.832	68.0	1.04

HDIL BEFORE LOG VERIFICATION SUMMARY

TOOL #:	1515MA 10037719	DATE/TIME PERFORMED:	Sat Nov 23 17:16:40 2013	DAYS SINCE CAL:	12
UNIT #:	3880TA HL6670				

ZERO DATA(mv)		10 KHz		30 KHz		50 KHz		70 KHz		90 KHz		110 KHz		130 KHz		150 KHz	
Coil 0 R	-0.010	-0.005	-0.002	-0.005	-0.008	-0.005	-0.006	-0.009									
	-0.200	0.200	-0.100	0.100	-0.100	0.100	-0.100	0.100	-0.100	0.100	-0.100	0.100	-0.100	0.100	-0.100	0.100	
Coil 0 Q	0.007	0.011	0.005	0.003	0.005	0.001	-0.001	-0.000									
	-1.000	1.000	-0.200	0.200	-0.100	0.100	-0.100	0.100	-0.100	0.100	-0.100	0.100	-0.100	0.100	-0.100	0.100	
Coil 1 R	0.004	0.002	-0.001	0.001	-0.003	-0.006	-0.008	-0.008									
	-0.200	0.200	-0.100	0.100	-0.100	0.100	-0.100	0.100	-0.100	0.100	-0.100	0.100	-0.100	0.100	-0.100	0.100	
Coil 1 Q	-0.004	-0.003	-0.000	0.004	0.005	0.002	0.002	-0.002									
	-1.000	1.000	-0.200	0.200	-0.100	0.100	-0.100	0.100	-0.100	0.100	-0.100	0.100	-0.100	0.100	-0.100	0.100	
Coil 2 R	0.002	0.012	0.014	0.008	0.011	0.011	0.013	0.015									
	-0.200	0.200	-0.100	0.100	-0.100	0.100	-0.100	0.100	-0.100	0.100	-0.100	0.100	-0.100	0.100	-0.100	0.100	
Coil 2 Q	0.001	0.002	0.003	-0.001	-0.004	-0.002	-0.004	-0.004									
	-1.000	1.000	-0.200	0.200	-0.100	0.100	-0.100	0.100	-0.100	0.100	-0.100	0.100	-0.100	0.100	-0.100	0.100	
Coil 3 R	0.016	0.014	0.005	0.003	0.006	0.002	0.002	0.005									
	-0.100	0.100	-0.100	0.100	-0.100	0.100	-0.100	0.100	-0.100	0.100	-0.100	0.100	-0.100	0.100	-0.100	0.100	
Coil 3 Q	-0.009	-0.004	0.003	0.005	-0.001	0.003	0.001	-0.002									
	-0.500	0.500	-0.200	0.200	-0.100	0.100	-0.100	0.100	-0.100	0.100	-0.100	0.100	-0.100	0.100	-0.100	0.100	
Coil 4 R	-0.018	-0.006	-0.001	-0.007	-0.008	-0.005	-0.004	0.002									
	-0.200	0.200	-0.200	0.200	-0.200	0.200	-0.200	0.200	-0.200	0.200	-0.200	0.200	-0.200	0.200	-0.200	0.200	
Coil 4 Q	-0.004	0.005	0.005	-0.003	-0.002	-0.001	-0.008	-0.003									
	-1.000	1.000	-0.400	0.400	-0.200	0.200	-0.200	0.200	-0.200	0.200	-0.200	0.200	-0.200	0.200	-0.200	0.200	
Coil 5 R	-0.010	0.015	0.009	0.016	0.010	0.003	-0.001	-0.003									
	-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	-0.400	0.400	
Coil 5 Q	-0.015	-0.001	-0.001	0.004	0.003	0.006	-0.003	-0.002									
	-2.000	2.000	-0.600	0.600	-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 6 R	-0.016	0.002	-0.003	-0.021	-0.007	-0.007	0.013	0.019									
	-1.000	1.000	-1.000	1.000	-1.000	1.000	-1.000	1.000	-1.000	1.000	-1.000	1.000	-1.000	1.000	-1.000	1.000	
Coil 6 Q	-0.023	-0.008	-0.021	0.020	-0.018	0.005	-0.013	0.007									
	-5.000	5.000	-2.000	2.000	-1.000	1.000	-1.000	1.000	-1.000	1.000	-1.000	1.000	-1.000	1.000	-1.000	1.000	

ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	126.02	124.52	121.62	117.40	112.10	105.71	98.30	90.06

Coil 0 P	100.00	150.00	100.00	150.00	50.00	150.00	50.00	140.00	92.00	140.00	87.00	130.00	82.00	120.00	76.00	110.00
	7.571	23.873	39.875	55.855	71.703	87.684	103.502	119.514								
Coil 1 M	6.000	9.000	19.000	29.000	32.000	47.000	44.000	66.000	57.000	85.000	70.000	100.000	82.000	120.000	96.000	140.000
	218.07	215.47	210.44	203.20	194.03	182.95	170.19	155.95								
Coil 1 P	180.00	270.00	180.00	270.00	170.00	260.00	170.00	250.00	160.00	250.00	160.00	230.00	150.00	250.00	140.00	200.00
	7.673	24.193	40.441	56.654	72.728	88.931	105.026	121.278								
Coil 2 M	6.000	9.000	19.000	29.000	32.000	48.000	45.000	67.000	57.000	86.000	70.000	110.000	83.000	120.000	96.000	140.000
	440.24	435.11	425.35	411.09	392.99	370.66	345.19	316.53								
Coil 2 P	360.00	540.00	360.00	540.00	340.00	510.00	330.00	500.00	310.00	470.00	300.00	440.00	270.00	410.00		
	7.853	24.699	41.308	57.873	74.338	90.959	107.428	124.100								
Coil 3 M	6.000	9.000	19.000	29.000	32.000	48.000	45.000	67.000	58.000	87.000	71.000	110.000	84.000	130.000	96.000	140.000
	712.26	703.33	686.09	660.97	629.21	592.17	549.27	503.60								
Coil 3 P	550.00	880.00	550.00	870.00	570.00	850.00	550.00	830.00	530.00	800.00	500.00	760.00	470.00	710.00	440.00	650.00
	7.719	24.337	40.645	56.873	72.893	89.002	104.830	120.697								
Coil 4 M	6.000	10.000	20.000	29.000	33.000	49.000	46.000	69.000	59.000	89.000	72.000	110.000	85.000	130.000	98.000	150.000
	1141.6	1125.0	1092.9	1047.6	991.9	927.9	857.8	783.8								
Coil 4 P	900.0	1400.0	900.0	1300.0	900.0	1300.0	850.0	1200.0	800.0	1200.0	750.0	1100.0	700.0	1000.0		
	7.959	25.063	41.744	58.274	74.474	90.623	106.388	122.156								
Coil 5 M	6.000	10.000	20.000	30.000	33.000	50.000	46.000	70.000	60.000	90.000	73.000	110.000	86.000	130.000	99.000	150.000
	2371.6	2341.2	2282.3	2197.8	2090.4	1963.7	1820.4	1666.2								
Coil 5 P	1900.0	2900.0	1800.0	2700.0	1800.0	2600.0	1700.0	2500.0	1600.0	2400.0	1500.0	2200.0	1400.0	2100.0		
	8.218	25.830	43.125	60.349	77.361	94.415	111.213	128.054								
Coil 6 M	6.000	10.000	20.000	31.000	34.000	51.000	48.000	72.000	62.000	89.000	76.000	110.000	89.000	130.000	100.000	150.000
	6034.0	5956.0	5804.9	5587.5	5314.2	4989.0	4617.5	4217.8								
Coil 6 P	4700.0	7100.0	4700.0	7000.0	4600.0	6900.0	4400.0	6400.0	4000.0	6000.0	3700.0	5600.0	3400.0	5100.0		
	8.135	25.849	43.188	60.475	77.552	94.670	111.527	128.444								
	7.000	10.000	22.000	32.000	36.000	54.000	51.000	76.000	65.000	98.000	80.000	120.000	94.000	140.000	110.000	160.000

HDIL AFTER LOG VERIFICATION SUMMARY

TOOL #: 1515MA 10037719

DATE/TIME PERFORMED:

Sat Nov 23 19:36:54 2013

DAYS SINCE CAL:

12

UNIT #:

3880TA HL6670

ZERO DATA(mv) 10 KHz 30 KHz 50 KHz 70 KHz 90 KHz 110 KHz 130 KHz 150 KHz

Coil 0 R	-0.010	-0.004	-0.005	-0.008	-0.011	-0.008	-0.009	-0.010
	-0.090 0.070	-0.065 0.065	-0.092 0.028	-0.095 0.025	-0.098 0.022	-0.095 0.025	-0.096 0.024	-0.099 0.021
Coil 0 Q	0.007	0.013	0.006	0.003	0.004	0.002	-0.001	-0.002
	-0.039 0.047	-0.109 0.131	-0.025 0.036	-0.027 0.033	-0.025 0.036	-0.029 0.031	-0.031 0.029	-0.030 0.030
Coil 1 R	0.003	-0.000	-0.002	-0.001	-0.003	-0.008	-0.010	-0.010
	-0.076 0.084	-0.048 0.062	-0.031 0.029	-0.029 0.031	-0.033 0.027	-0.036 0.024	-0.038 0.032	-0.038 0.032
Coil 1 Q	-0.005	-0.003	-0.000	0.004	0.004	0.003	0.001	-0.002
	-0.404 0.366	-0.103 0.097	-0.030 0.030	-0.036 0.034	-0.035 0.036	-0.038 0.032	-0.038 0.032	-0.032 0.038
Coil 2 R	0.009	0.014	0.016	0.009	0.009	0.011	0.013	0.016
	-0.069 0.072	-0.018 0.042	-0.016 0.044	-0.022 0.036	-0.019 0.041	-0.019 0.041	-0.017 0.043	-0.015 0.045
Coil 2 Q	0.004	0.003	0.007	0.001	-0.001	-0.003	-0.007	-0.009
	-0.349 0.351	-0.098 0.102	-0.027 0.033	-0.031 0.029	-0.034 0.026	-0.032 0.028	-0.034 0.026	-0.034 0.026
Coil 3 R	0.015	0.007	0.003	0.006	0.005	0.001	-0.000	0.003
	-0.024 0.056	-0.026 0.054	-0.035 0.045	-0.037 0.043	-0.034 0.046	-0.038 0.042	-0.038 0.042	-0.035 0.045
Coil 3 Q	-0.007	-0.008	-0.002	0.003	0.003	0.002	-0.004	-0.004
	-0.299 0.191	-0.084 0.076	-0.037 0.043	-0.036 0.045	-0.041 0.039	-0.037 0.043	-0.039 0.041	-0.042 0.038
Coil 4 R	-0.013	-0.008	-0.009	-0.007	-0.005	-0.006	0.002	0.000
	-0.078 0.042	-0.066 0.054	-0.061 0.059	-0.067 0.053	-0.068 0.052	-0.066 0.056	-0.064 0.056	-0.059 0.052
Coil 4 Q	0.001	0.009	0.001	0.001	-0.007	-0.001	-0.005	-0.001
	-0.304 0.296	-0.095 0.105	-0.065 0.066	-0.063 0.067	-0.062 0.069	-0.061 0.069	-0.059 0.062	-0.063 0.067
Coil 5 R	0.011	0.019	0.023	0.008	0.009	0.011	0.004	0.006
	-0.130 0.110	-0.105 0.135	-0.111 0.129	-0.104 0.136	-0.110 0.130	-0.117 0.123	-0.121 0.119	-0.123 0.117
Coil 5 Q	0.005	-0.002	-0.000	0.005	-0.002	0.007	0.003	-0.003
	-0.615 0.595	-0.251 0.249	-0.121 0.119	-0.116 0.124	-0.117 0.123	-0.114 0.126	-0.123 0.117	-0.122 0.118
Coil 6 R	0.021	-0.020	0.004	0.002	-0.009	0.010	0.013	0.031
	-0.316 0.284	-0.298 0.302	-0.303 0.297	-0.321 0.279	-0.307 0.293	-0.307 0.293	-0.287 0.313	-0.281 0.319
Coil 6 Q	0.001	0.008	-0.022	0.015	-0.028	-0.010	-0.016	-0.021
	-1.523 1.477	-0.608 0.592	-0.321 0.279	-0.280 0.300	-0.318 0.282	-0.295 0.305	-0.313 0.287	-0.293 0.307

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

Coil 0 M	126.09	124.55	121.67	117.16	111.73	104.93	97.39	88.79
	123.50 128.54	122.03 127.01	119.19 124.05	115.05 119.75	109.86 114.34	103.60 107.83	96.33 100.26	89.26 91.86
Coil 0 P	7.595	23.943	40.015	56.093	71.935	87.959	103.647	119.622
	4.571 10.571	20.873 25.873	36.875 42.875	52.855 58.855	68.703 74.703	84.684 90.684	100.502 106.502	116.514 122.514
Coil 1 M	218.33	215.67	210.67	202.92	193.55	181.72	168.73	153.92
	213.70 222.43	211.16 219.78	206.23 214.66	199.14 207.26	190.15 197.91	179.29 186.61	166.78 173.69	152.83 159.07
Coil 1 P	7.692	24.251	40.558	56.846	72.926	89.153	105.091	121.302
	4.673 10.673	21.193 27.193	37.441 43.441	53.654 59.654	69.728 75.728	85.931 91.931	102.036 108.036	118.278 124.278
Coil 2 M	439.90	434.67	424.95	409.67	391.19	367.43	341.50	311.50
	431.43 449.04	426.40 443.81	416.84 433.86	402.87 419.31	385.13 400.85	363.25 378.08	339.28 352.09	310.20 322.86
Coil 2 P	7.872	24.757	41.424	58.069	74.528	91.182	107.491	124.155
	4.853 10.853	21.699 27.699	38.308 44.308	54.873 60.873	71.338 77.338	87.969 93.969	104.428 110.428	121.100 127.100

Coil 3 M	711.74 688.02 725.51	702.65 689.26 717.40	685.55 672.37 699.81	658.74 647.75 674.19	626.36 616.62 641.79	586.92 580.33 604.02	543.68 536.28 560.25	495.79 489.53 513.67
Coil 3 P	7.733 4.719 10.719	24.390 21.397 27.397	40.756 37.645 43.645	57.062 53.873 59.873	73.101 69.893 75.893	89.192 86.002 92.002	104.898 101.890 107.890	120.714 117.697 123.697
Coil 4 M	1139.8 1118.8 1164.6	1122.9 1102.6 1147.5	1091.0 1071.0 1114.7	1043.1 1026.6 1068.5	986.6 972.0 1011.7	918.9 909.3 946.4	848.2 840.6 874.9	771.2 768.1 799.4
Coil 4 P	7.974 4.969 10.969	25.116 22.063 28.063	41.859 38.744 44.744	58.461 55.274 61.274	74.865 71.474 77.474	90.823 87.623 93.623	106.434 103.368 109.368	122.166 119.156 125.156
Coil 5 M	2368.0 2324.1 2419.0	2337.1 2294.4 2388.0	2278.6 2236.6 2327.9	2188.4 2153.9 2241.8	2079.2 2048.6 2132.2	1945.1 1924.4 2009.0	1799.8 1784.0 1856.8	1638.5 1632.9 1699.6
Coil 5 P	8.235 5.218 11.218	25.885 22.890 28.890	43.241 40.125 46.125	60.536 57.348 63.348	77.553 74.361 80.361	94.614 91.415 97.415	111.261 108.213 114.213	128.060 125.054 131.054
Coil 6 M	6036.5 5813.3 6154.6	5956.5 5806.9 6075.2	5806.3 5688.8 5921.0	5575.6 5457.9 5699.2	5295.0 5207.9 5430.5	4948.9 4889.2 5008.8	4574.3 4525.1 4709.8	4154.9 4133.4 4302.1
Coil 6 P	8.154 5.135 11.135	25.913 22.848 28.848	43.310 40.188 46.188	60.669 57.475 63.475	77.752 74.552 80.552	94.878 91.670 97.670	111.613 108.527 114.527	128.514 125.444 131.444

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 10203001

DATE/TIME PERFORMED: Tue Oct 29 14:56:39 2013

UNIT #: 3880TA HL667D

CALB JIG #: 4702NK VBA905

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	162.44	1093.33	930.9 890.0 960.0	0.161	26.18	176.18	150

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 10203001

DATE/TIME PERFORMED: Sun Nov 3 18:14:03 2013

UNIT #: 3880TA HL667D

VERI JIG #: 4702NK VBA905

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	150.73	1055.20	0.161	24.29	170.03	145.74 140.00 160.00

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1329XA 10203001

DATE/TIME PERFORMED: Sat Nov 23 15:40:01 2013

DAYS SINCE CAL: 25

UNIT #: 3880TA HL667D

VERI JIG #: 4702NK VBA905

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	508.89	1386.89	0.161	82.00	223.48	141.48 135.74 155.74

INSTRUMENT CONFIGURATION

Source File: /data/625268/n777q~MSLAM-tdg

CABLEHEAD 3 3/8 WITH SP

Diameter : 3.38"
Length : 3.00'
Weight : 35 lbs
Series : 306922
Mnemonic : CH
Measure Point: 0.83': SP



79.15'

SP 77.96'

DOWNHOLE POWER ADAPTER

Diameter : 3.63"
Length : 5.27'
Weight : 86 lbs
Series : 4430XB
Mnemonic : DHPA

SWIVEL

Diameter : 3.38"
Length : 3.50'
Weight : 68 lbs
Series : 3944XD
Mnemonic : SWVL

TTRM SUB

Diameter : 3.63"
Length : 3.83'
Weight : 62 lbs
Series : 39B1XA
Mnemonic : TTRM
Measure Point: 1.38': TEMP MP
Measure Point: 1.13': RM MP

TEMP MP --- 65.93'
RM MP --- 65.68'

WTS COMMON REMOTE

Diameter : 3.63"
Length : 6.36'
Weight : 126 lbs
Series : 3514XB
Mnemonic : WTS

COMPENSATED NEUTRON

Diameter : 3.63"
Length : 7.59'
Weight : 150 lbs
Series : 2446XA
Mnemonic : CN
Measure Point: 3.63': LSN MP
Measure Point: 3.24': SSN MP

LSN MP --- 53.23'
SSN MP --- 52.83'

Z-DENSILOG

Diameter : 4.88"
Length : 11.23'
Weight : 360 lbs
Series : 2234XA
Mnemonic : ZDL
Measure Point: 3.19': CAL MP
Measure Point: 3.47': LSD MP
Measure Point: 3.07': SSD MP

CAL MP --- 42.57'
LSD MP --- 41.85'
SSD MP --- 41.45'

KNUCKLE JOINT (DOUBLE)

Diameter : 3.38"
Length : 4.65'
Weight : 90 lbs

Series : 3939XA
Mnemonic : KNJT

HIGH DEFINITION INDUCTION TOOL

Diameter : 3.63"
Length : 27.13'
Weight : 415 lbs
Series : 1515XA
Mnemonic : HDIL
Measure Point: 13.91': SP MP
Measure Point: 7.44': XMTR MP

SP MP 21.50'

XMTR MP 15.03'

DIGITAL SPECTRALOG


Diameter : 3.63"
Length : 7.31'
Weight : 130 lbs
Series : 1339XA
Mnemonic : DSL
Measure Point: 1.60': GR MP

GR MP 1.66'

BULL PLUG 3 3/8

0.00'

TOTAL LENGTH: 79.15'
TOTAL WEIGHT: 1543 lbs
MAX DIAMETER: 0'4.88"

	COMPANY <u>DJ SIMMONS, INC</u>		FILE NO:
	WELL <u>PINTO #1-7</u>		<u>US625268</u>
	FIELD <u>PAPOOSE CANYON</u>		API NO:
	COUNTY <u>DOLORES</u>	STATE <u>CO</u>	<u>05033061740000</u>
LOCATION:		ELEVATIONS:	<u>S7 T39N R19W</u> <u>RIG: AZTEC 222</u>
SHL: 2832.09' FSL; 2840.81' FEL		KB <u>6622 FT</u>	
LAT: 37.655169		DF	
LONG: -108.96760		GL <u>6609 FT</u>	
SEC <u>7</u>	TWP <u>39N</u>	RGE <u>19W</u>	DATE <u>23-Nov-2013</u>

