



Baker Atlas

HIGH DEFINITION INDUCTION LOG
GAMMA RAY LOG
CALIPER LOG

FILE NO:	COMPANY	VULCAN MINERALS INC.
API NO:	WELL	VULCAN INVESTCAN RED BROOK #2
	FIELD	BAY ST.GEORGE BASIN
	PROVINCE	NEWFOUNDLAND AND LABRADOR
Ver. 3.87	LOCATION:	OTHER SERVICES
UID:		ZDL-CN-GR-CAL,
N/A		XMAC-DSL-GR, CVL
LICENSE:	BH LOC. LSD:	COMP, DSL
ADW 2009-116-03-	LAT 48.2679591667	RCOR, GR-STAR
	LONG -58.7501141667	VSP
PERMANENT DATUM	G.L.	ELEVATION
LOG MEASURED FROM	K.B.	6.3 M
DRILL MEAS. FROM	KELLY BUSHING	ABOVE P.D.
		ELEVATIONS:
		KB 63.4 M
		DF
		GL 57.1 M

DATE		25-NOV-2009		
RUN	TRIP	2	1	
SERVICE ORDER		CA210569		
DEPTH DRILLER		1965.0 M		
DEPTH LOGGER		1962.2 M		
BOTTOM LOGGED INTERVAL		1961.5 M		
TOP LOGGED INTERVAL		885.0 M		
CASING DRILLER		244.5 MM		② 885.0 M
CASING LOGGER		884.6 M		
BIT SIZE		216.0 MM		
TYPE OF FLUID IN HOLE		POLYMER		
DENSITY	VISCOSITY	1260.0 G/L	80.0 S	
PH	FLUID LOSS	11.2	4.8 ML	
SOURCE OF SAMPLE		TOOL MEASURED		
RM AT MEAS. TEMP.		0.30 OHMM	② 23.4 DEGC	②
RMF AT MEAS. TEMP.		0.24 OHMM	② 23.4 DEGC	②
RMC AT MEAS. TEMP.		0.36 OHMM	② 23.4 DEGC	②
SOURCE OF RMF	RMC	CALCULATED	CALCULATED	
RM AT BHT		0.3 OHMM	② 23.4 DEGC	②
TIME SINCE CIRCULATION		12.5 HOURS		
MAX. RECORDED TEMP.		20.1 DEGC		
EQUIP. NO.	LOCATION	6555	OH NISKU	
RECORDED BY		J. HOUSE / R. NEUPANE		
WITNESSED BY		M.SMITH		

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	220.2 M
311.0 MM	220.2 M	895.0 M
216.0 MM	895.0 M	1965.0 M

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
339.7 MM	71.4 KG/M	J-55	0.0 M	220.2 M
244.5 MM	64.7 KG/M	L-80	0.0 M	331.8 M
244.5 MM	53.6 KG/M	J-55	331.8 M	895.0 M
177.8 MM				

REMARKS

RUN 2 TRIP 1 : TIME STOPPED CIRCULATION: 25-NOV-09 02:15

HDIL RECORDED WITH AND CORRECTED TO 38.1 MM STANDOFF.
CALIPER PRESENTED WITH HDIL TO ASSIST WITH THE QC OF THE DATA.

RIG: STONEHAM #11

CREW: J. HOUSE, R. NEUPANE, D. SCHNEIDER, A. MITTELSTADT,
L. HICKS, J. ESCHNER, M. MONGER

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
2	1	SWIVEL	3944XA	73677	FREE
2	1	ISO SUB	4488XA	10141562	FREE
2	1	TTMA SUB	3980XA	10091959	FREE
2	1	COMM/POWER	3518FB	10118929	DECENTRALIZED
2	1	COMM/GR	3518EB	10395627	DECENTRALIZED
2	1	FOCUS CN	2436XA	10394243	DECENTRALIZED
2	1	FOCUS ZDEN	2223XA	10116105	PAD DEVICE
2	1	DBL KNCKL	3931XA	10455333	FREE
2	1	HDIL	1530XA	10132721	CENTRALIZED

INSTRUMENT CONFIGURATION

Source File: /dat1a/pass/vulcan/k970a~VUL-tdg

FOCUS CABLEHEAD

Series : CABL318
Mnemonic : CBLH
Diameter : 3.12"
Weight : 6.8 kg

FOCUS SHORT ISOLATION SUB, 10 PIN F/T

Series : 4488XA
Mnemonic : ISSB

FOCUS TEN/TEMP/MUD RES/ACCEL

Series : 3980XA
Mnemonic : TTMA
Diameter : 3.13"
Weight : 27.7 kg
Length : 131.4 cm
Temp Rating : 127 deg. C
Press Rating : 703 kg/cm2

FOCUS TELEMETRY (POWER SECTION)

Series : 3518FB
Mnemonic : TMGR
Diameter : 3.13"
Weight : 21.8 kg
Length : 113.1 cm

FOCUS EB/EG TELEMETRY GAMMA RAY

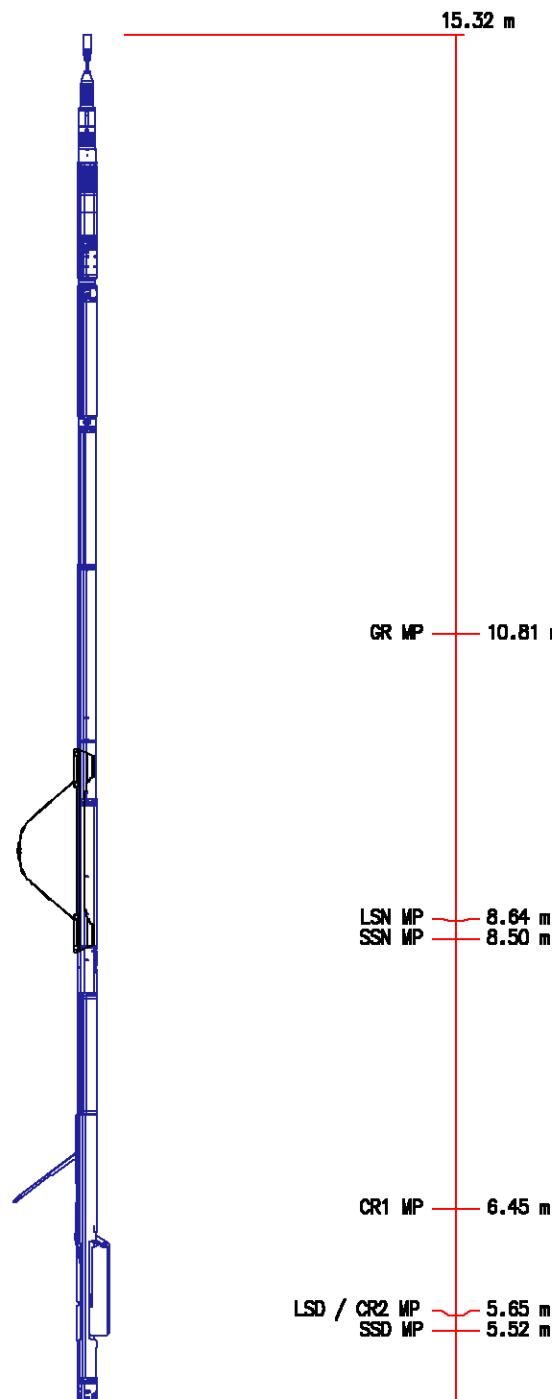
Series : 3518EG
Mnemonic : GR
Diameter : 3.12"
Weight : 28.6 kg
Length : 177.8 cm
Measure Point: 129.2 cm: GR MP
Temp Rating : 127 deg. C
Press Rating : 703 kg/cm2

FOCUS COMPENSATED NEUTRON

Series : 2436XA
Mnemonic : CN
Diameter : 3.13"
Weight : 29.5 kg
Length : 148.7 cm
Source Type : AM241BE
Strength : 18.0 curies
Measure Point: 58.4 cm: LSN MP

FOCUS Z-DENSILOG

Series : 2223XA
Mnemonic : ZDL
Diameter : 3.75"
Weight : 90.9 kg
Length : 292.1 cm
Source Type : CS137
Strength : 2.0 curies
Measure Point: 132.1 cm: CR1 MP
Measure Point: 51.4 cm: LSD / CR2 MP
Measure Point: 39.4 cm: SSD MP
Temp Rating : 127 deg. C
Press Rating : 703 kg/cm2

FOCUS KNUCKLE JOINT

Series : 3930XA

FOCUS KNUCKLE JOINT

Series : 3930XA

FOCUS HIGH DEFINITION INDUCTION TOOL

Series : 1530XA
Mnemonic : HDIL
Diameter : 3.13"
Weight : 52.3 kg
Length : 406.4 cm
Measure Point: 218.8 cm: COIL 5 MP
Measure Point: 172.9 cm: COIL 4 MP
Measure Point: 127.2 cm: COIL 3 MP
Measure Point: 111.9 cm: COIL 2 MP
Measure Point: 96.7 cm: COIL 1 MP
Measure Point: 81.5 cm: COIL 0 MP
Measure Point: 34.7 cm: SP MP
Temp Rating : 127 deg. C
Press Rating : 703 kg/cm2

COIL 5 MP --- 2.34 m
COIL 4 MP --- 1.88 m
COIL 3 MP --- 1.42 m
COIL 2 MP --- 1.27 m
COIL 1 MP --- 1.12 m
COIL 0 MP --- 0.97 m
SP MP --- 0.50 m
0.00 m

FOCUS PINEAPPLE / CABBAGE

TOTAL LENGTH: 15.32 m
TOTAL WEIGHT: 324.5 kg
MAX DIAMETER: 0'6.13"

MAIN LOG - UPPER PRESENTATION

ECLIPS 6.01 Feb 21, 2008
Updates: 1,40,43

Wed Nov 25 16:59:37 2009

Pcrplt /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.42

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pass/vulcan/k970a03.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 796.816 m BOTTOM DEPTH: 1967.491 m

SYMMETRIC FILTER

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

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
BIT SIZE	BIT SIZE	216.000	mm	TOP	BOTTOM
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	25.0	degC	"	"
	MUD SAMPLE RES	1.000	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

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	15.00	mm	''	''
	TOOL POSITION	ECCENTERED		''	''
	Rmud MULTIPLIER	1.000		''	''

CURVE DESCRIPTION REPORT

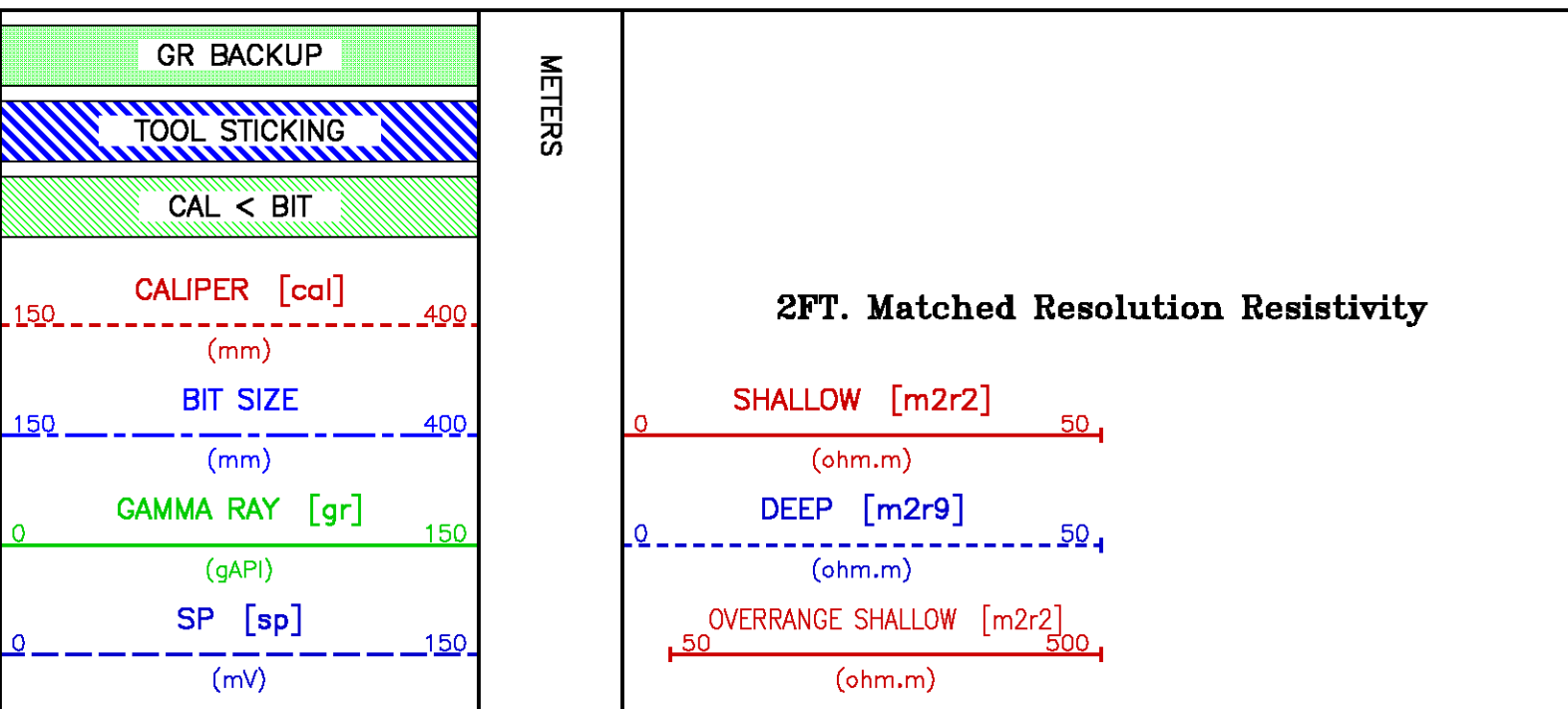
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F1:BIT	BIT	Nov 25 13:16:58 2009	BIT SIZE
F1:CAL	CAL	Nov 25 13:16:58 2009	CALIPER
F1:CHT	CHT	Nov 25 13:16:58 2009	CABLE HEAD TENSION
F1:GR	GR	Nov 25 13:16:58 2009	GAMMA RAY
F1:M2CC9	M2C9	Nov 25 13:16:58 2009	HDIL 2' VERT. RESOLUTION COMPRESSED COND.-90" INVESTIGATION
F1:M2R2	M2R2V	Nov 25 13:16:58 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 20 INCH
F1:M2R9	M2R9L	Nov 25 13:16:58 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 90 INCH
F1:MDTMP		Nov 25 13:16:58 2009	MUD TEMPERATURE
F1:MMRK	MMRK	Nov 25 13:16:58 2009	MINUTE MARK
F1:SP	SP	Nov 25 13:16:58 2009	SPONTANEOUS POTENTIAL
F1:TEN	TEN	Nov 25 13:16:58 2009	DIFFERENTIAL TENSION

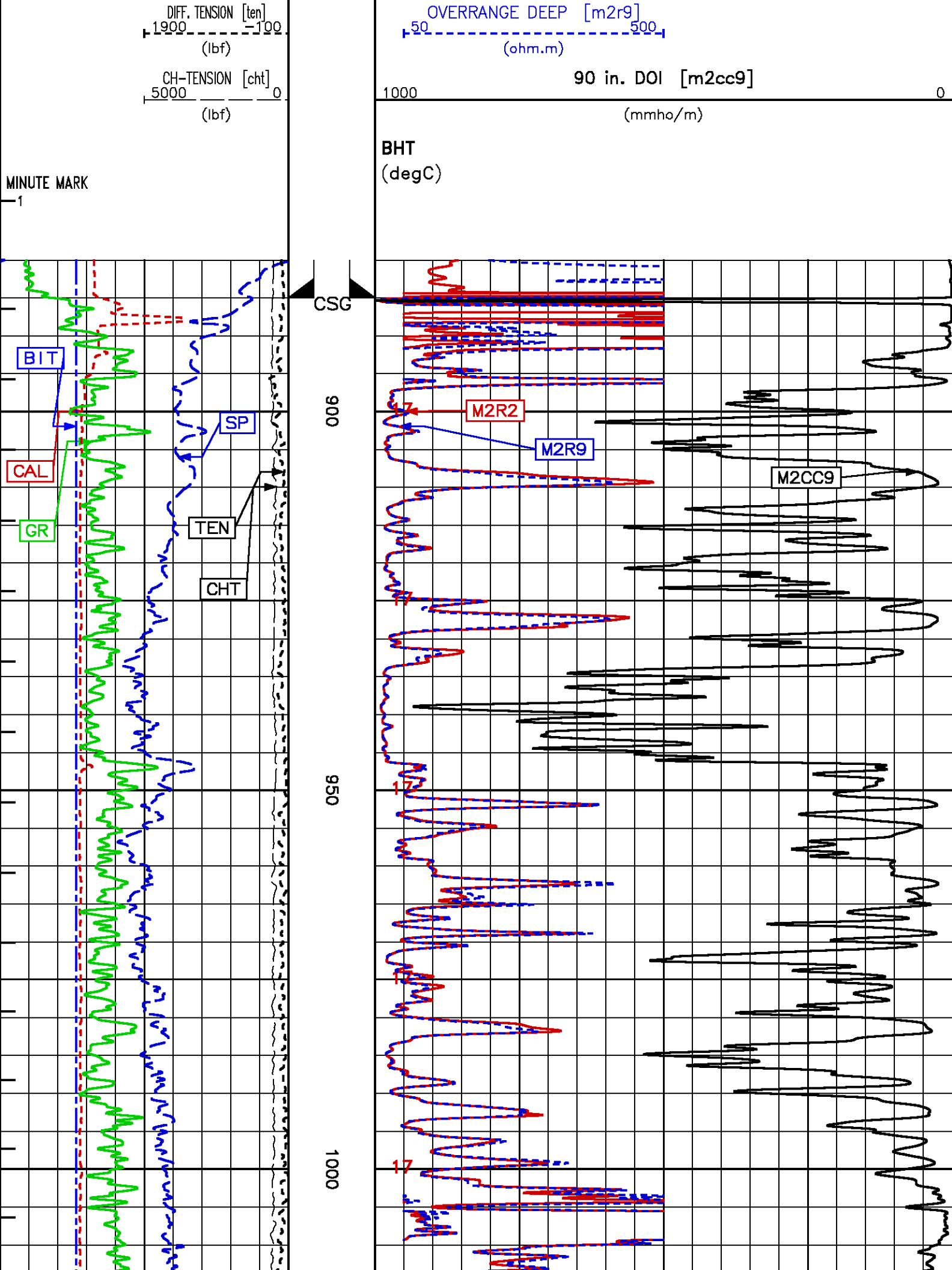
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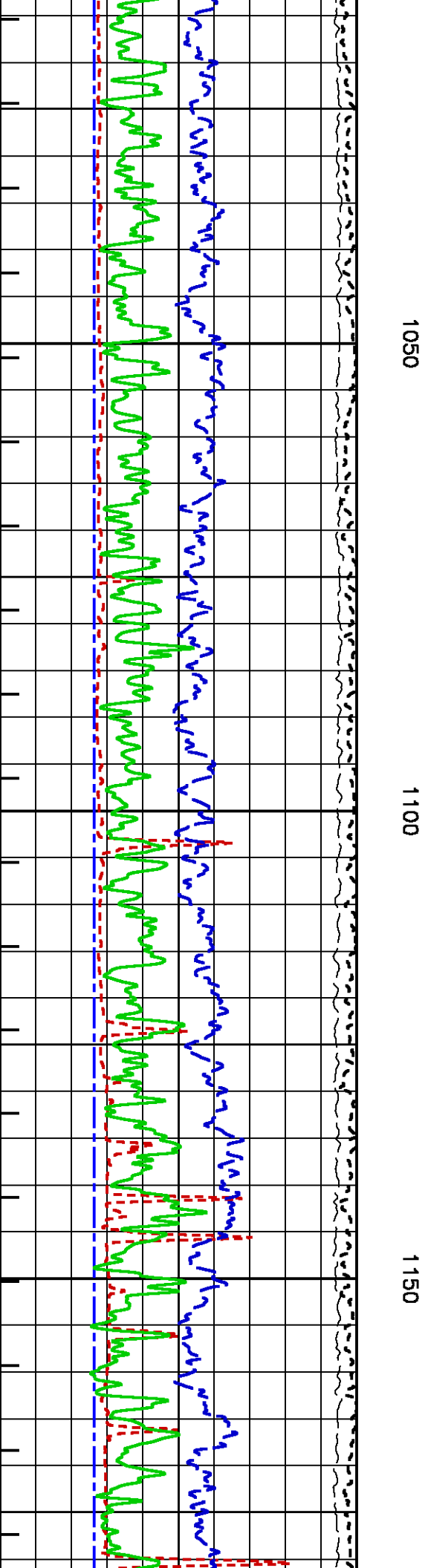
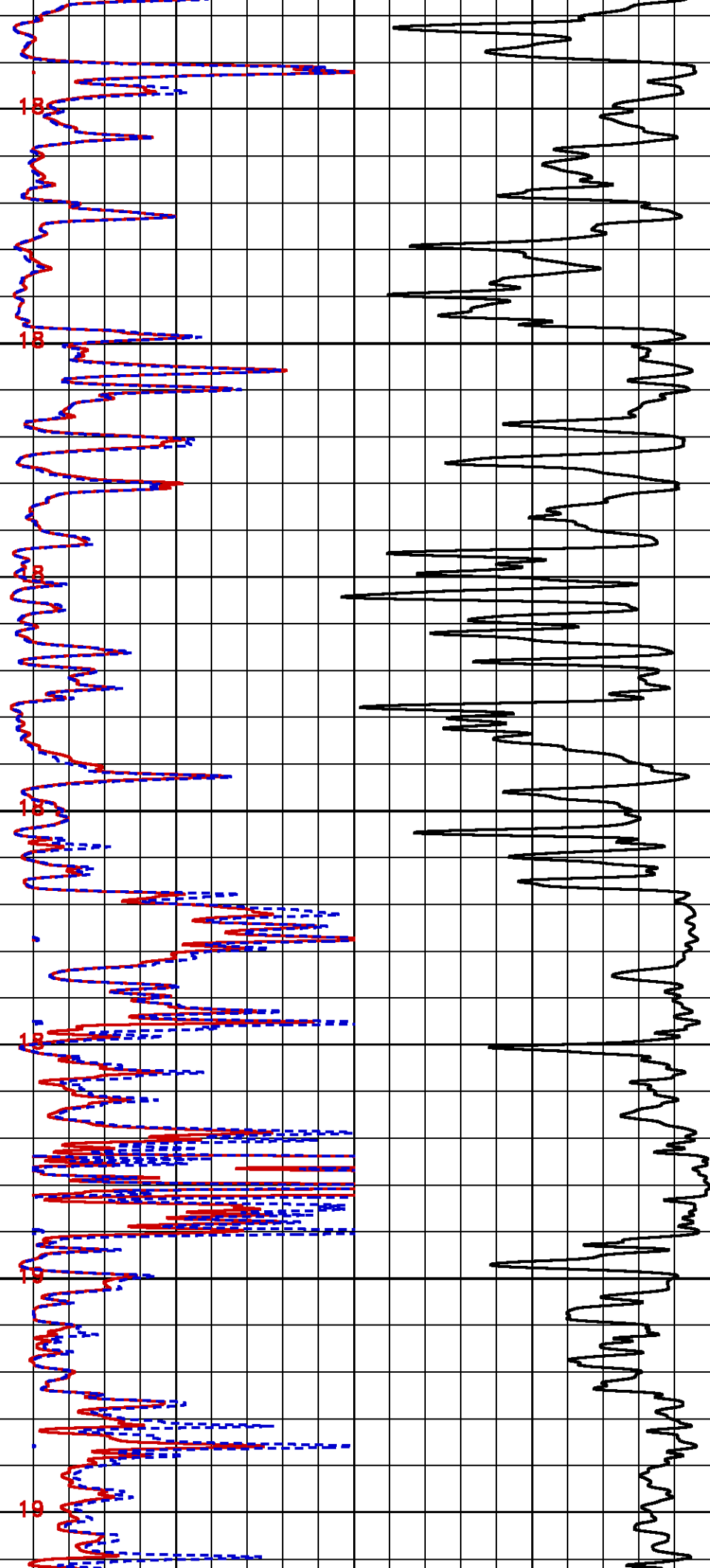
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BIT	0.00	GR	10.67	M2R9	0.84		
CAL	5.52	M2CC9	0.84	SP	0.38		
CHT	0.00	M2R2	0.84	TEN	0.00		

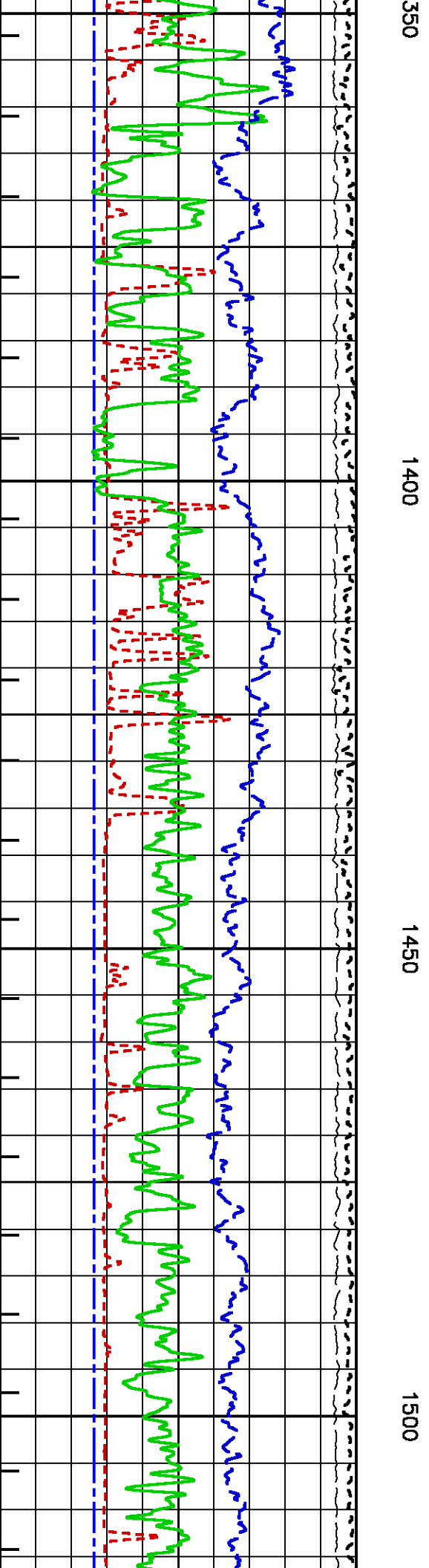
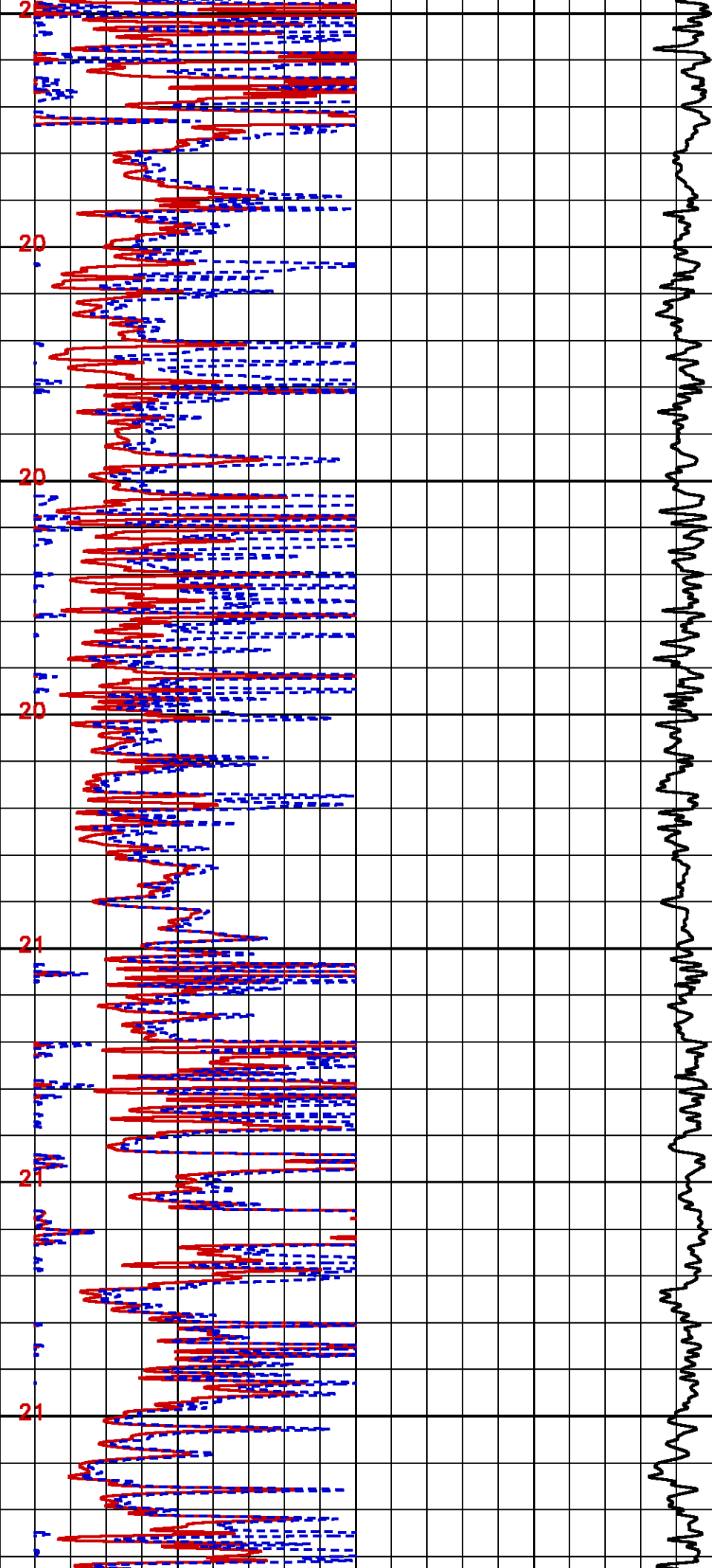
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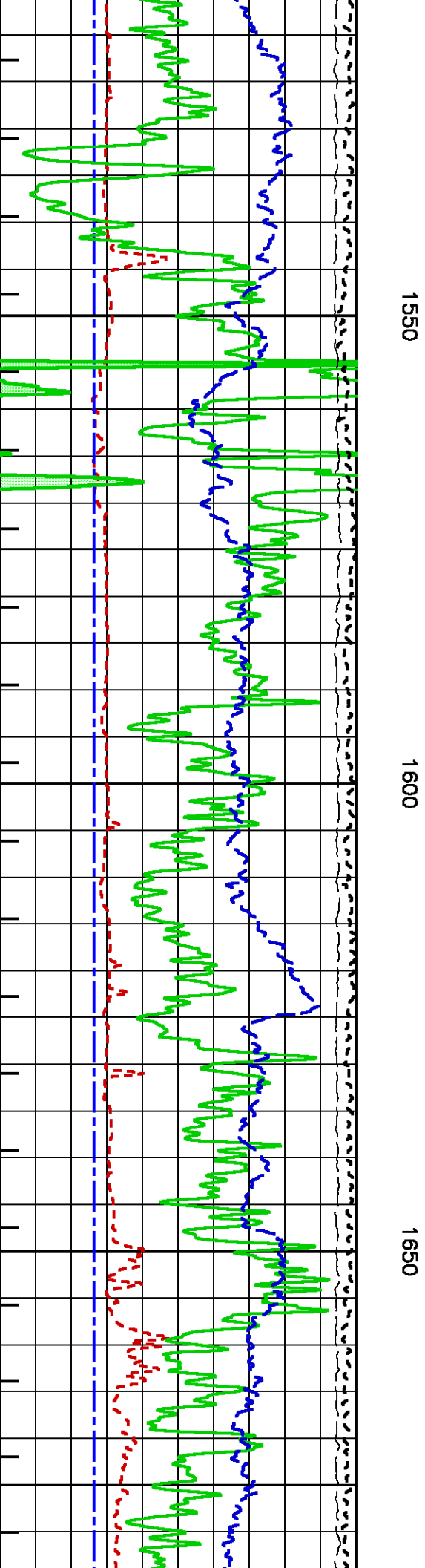
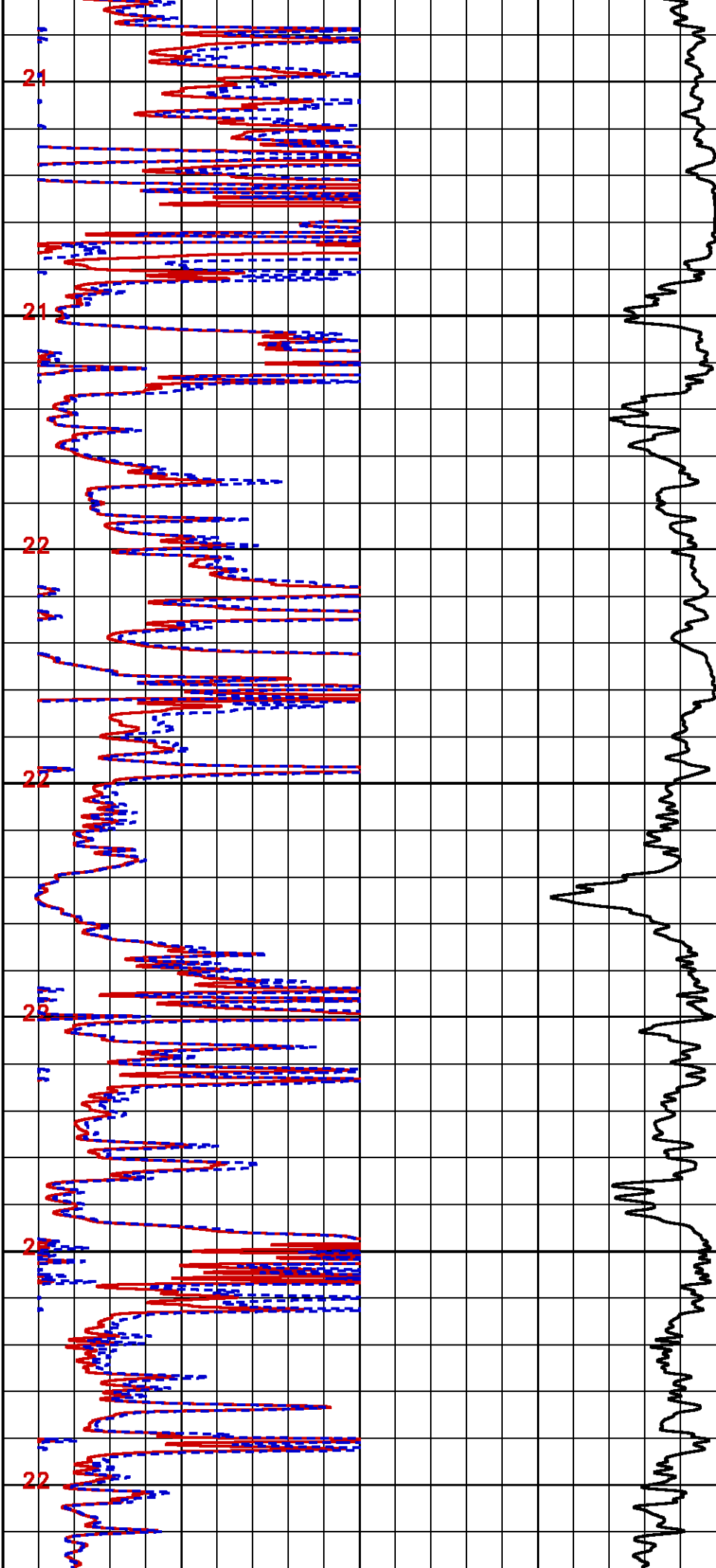
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Created On : Nov 25 13:16:58 2009
Company : VULCAN MINERALS INC.
Well : VULCAN INVESTCAN RED BROOK #2
Field : RED BROOK
File Interval : 789.889 - 1968.93 Meters
Oct : k970a

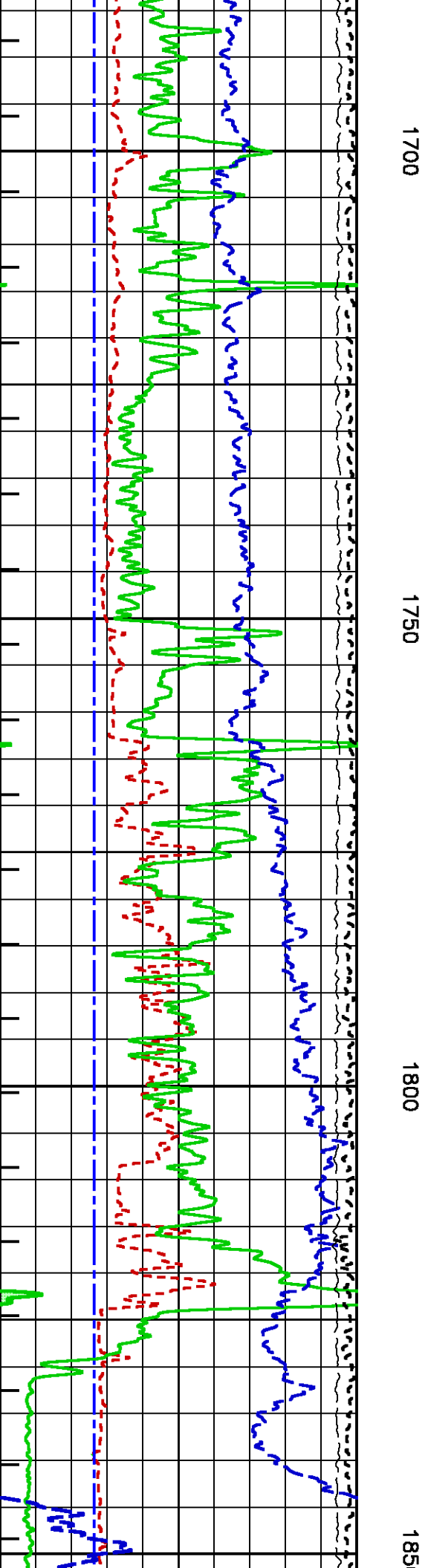
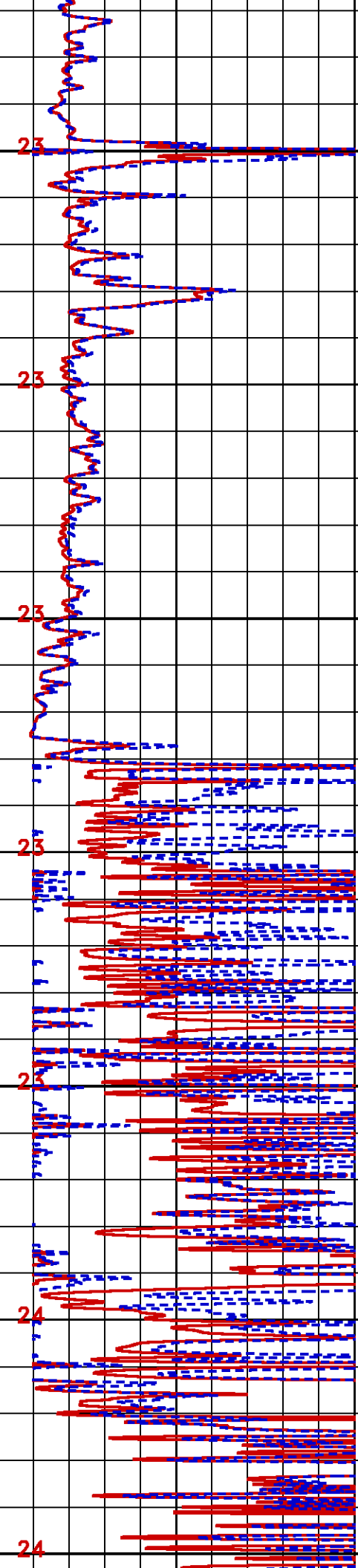
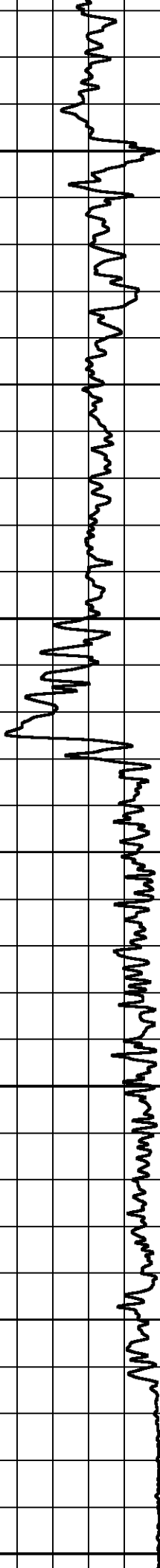


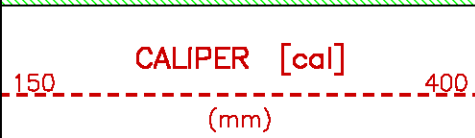
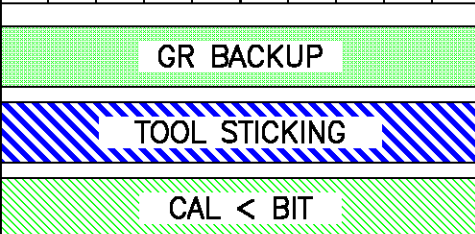
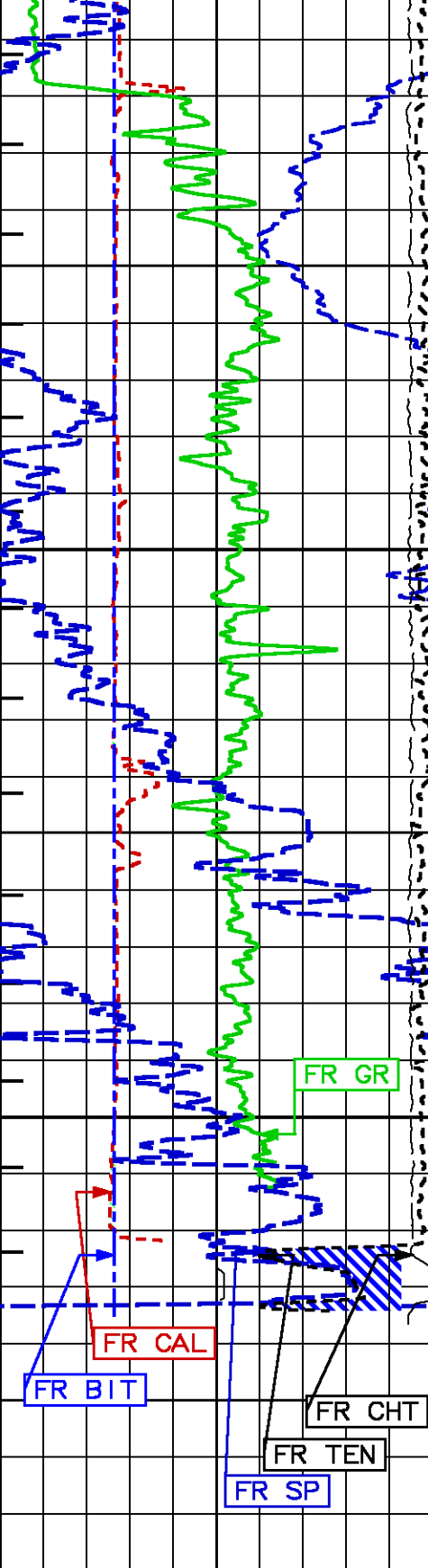




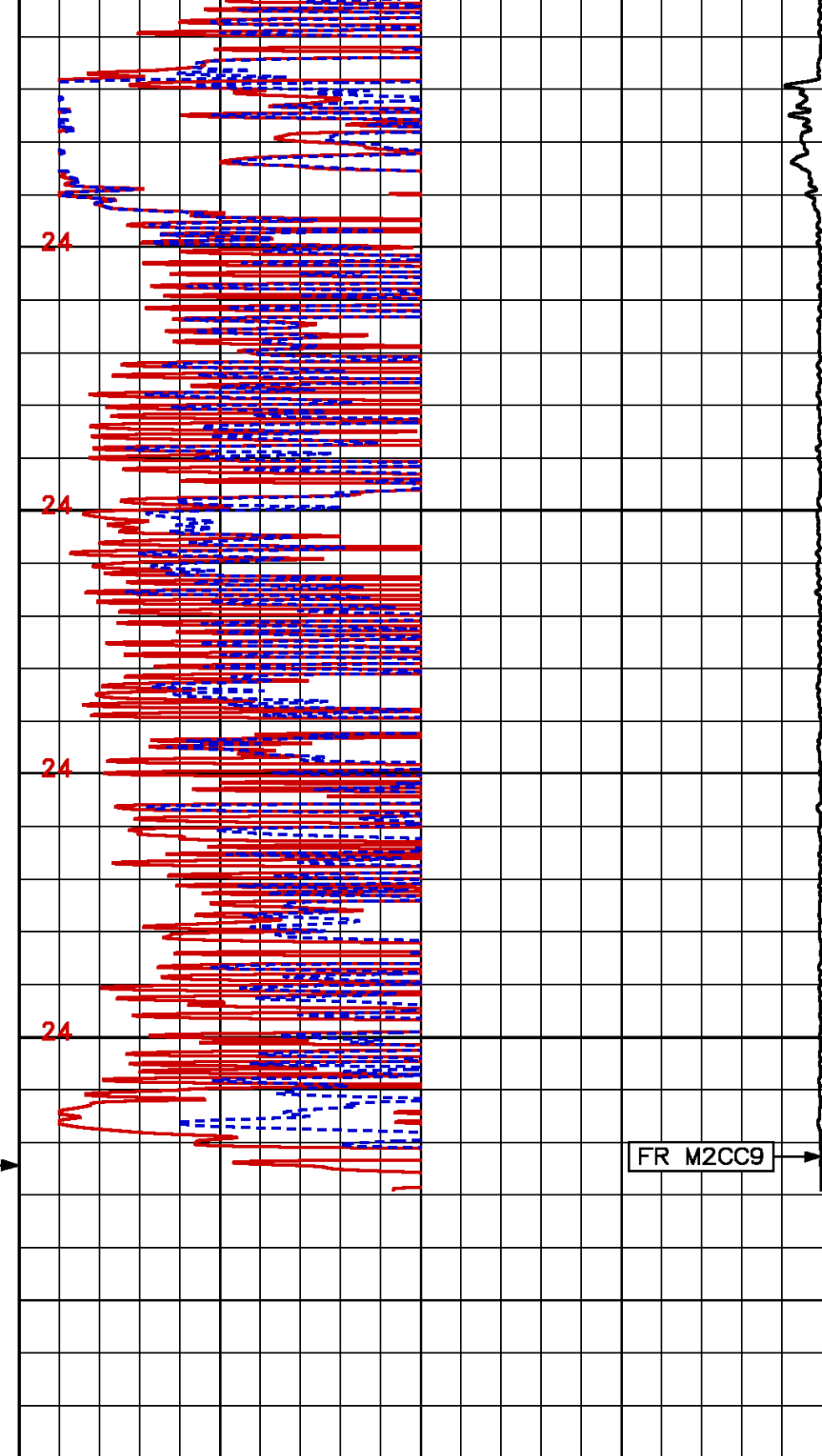




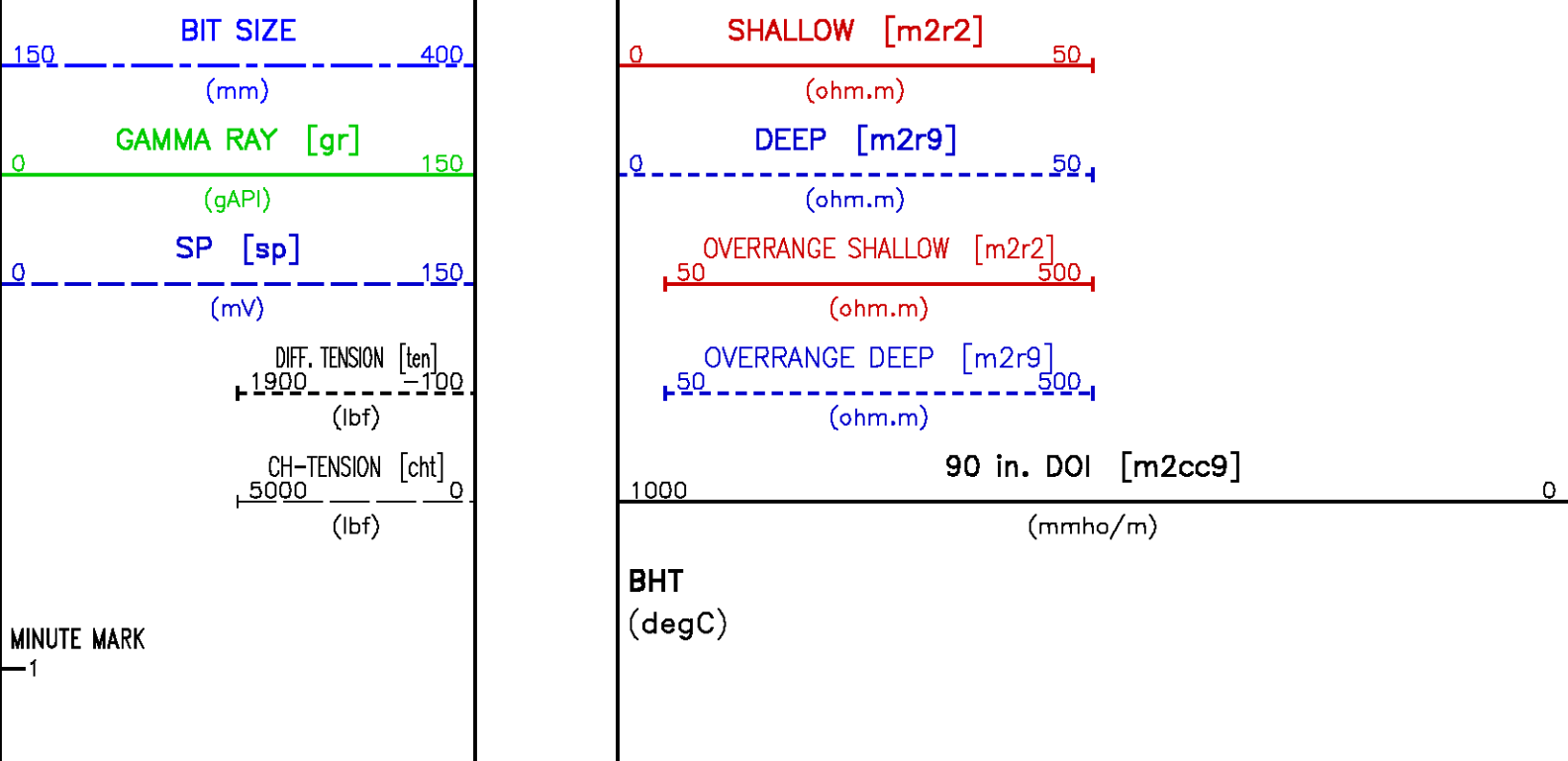




0
1900
1950
METERS



2FT. Matched Resolution Resistivity



MAIN LOG

ECLIPS 6.0i Feb 21, 2008
Updates: 1,40,43

Wed Nov 25 16:39:37 2009

Pcrplt /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.42

PARAMETER AND FILTER SUMMARY REPORT

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TOP DEPTH: 796.816 m BOTTOM DEPTH: 1967.491 m

SYMMETRIC FILTER

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

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
BIT SIZE	BIT SIZE	216.000	mm	TOP	BOTTOM
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	25.0	degC	''	''
	MUD SAMPLE RES	1.000	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

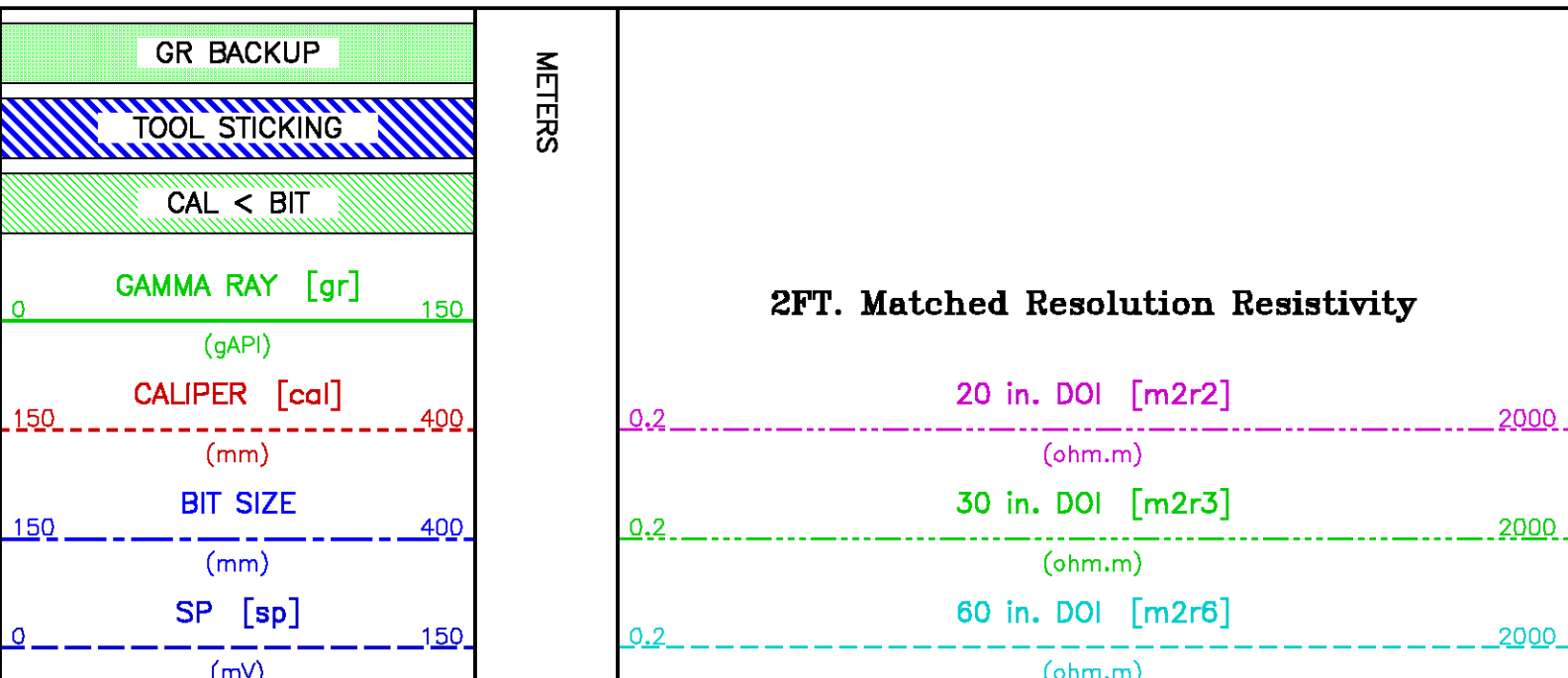
ACCELERATION PROCESSING				
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
ACCEL CORR SWITCH	ACCEL DEPTH CORR	CORRECTION ON		TOP BOTTOM
HDIL PROCESSING				
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
HDIL TEMPERATURE CORRECTION	TEMP CORRECTION	ON		TOP BOTTOM
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		'' ''
	ABC to CALCULATE	STANDOFF		'' ''
	STANDOFF	15.00	mm	'' ''
	TOOL POSITION	ECCENTERED		'' ''
	Rmud MULTIPLIER	1.000		'' ''

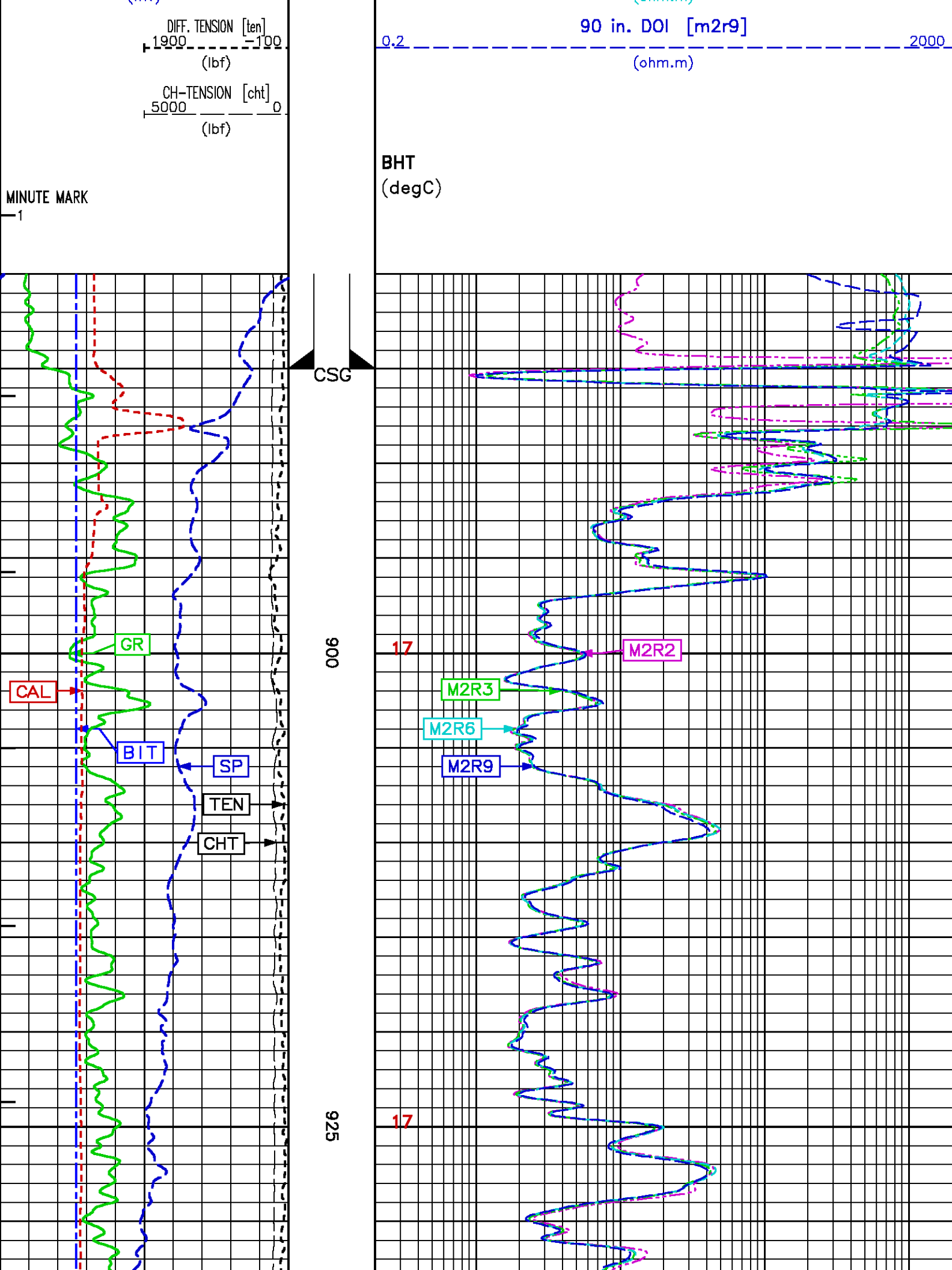
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F1:M2R3	M2R3	Nov 25 13:16:58 2009	VERT RESOLUTION MATCHED {2 FT} RES - DOI 30 INCH	
F1:M2R6	M2R6	Nov 25 13:16:58 2009	VERT RESOLUTION MATCHED {2 FT} RES - DOI 60 INCH	
F1:M2R9	M2R9	Nov 25 13:16:58 2009	VERT RESOLUTION MATCHED {2 FT} RES - DOI 90 INCH	
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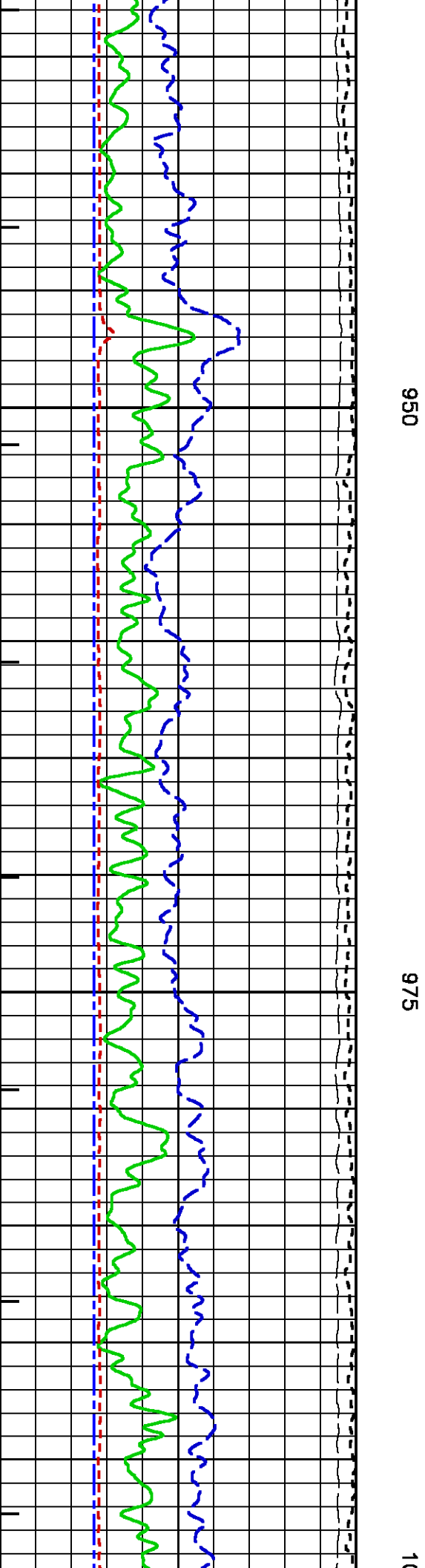
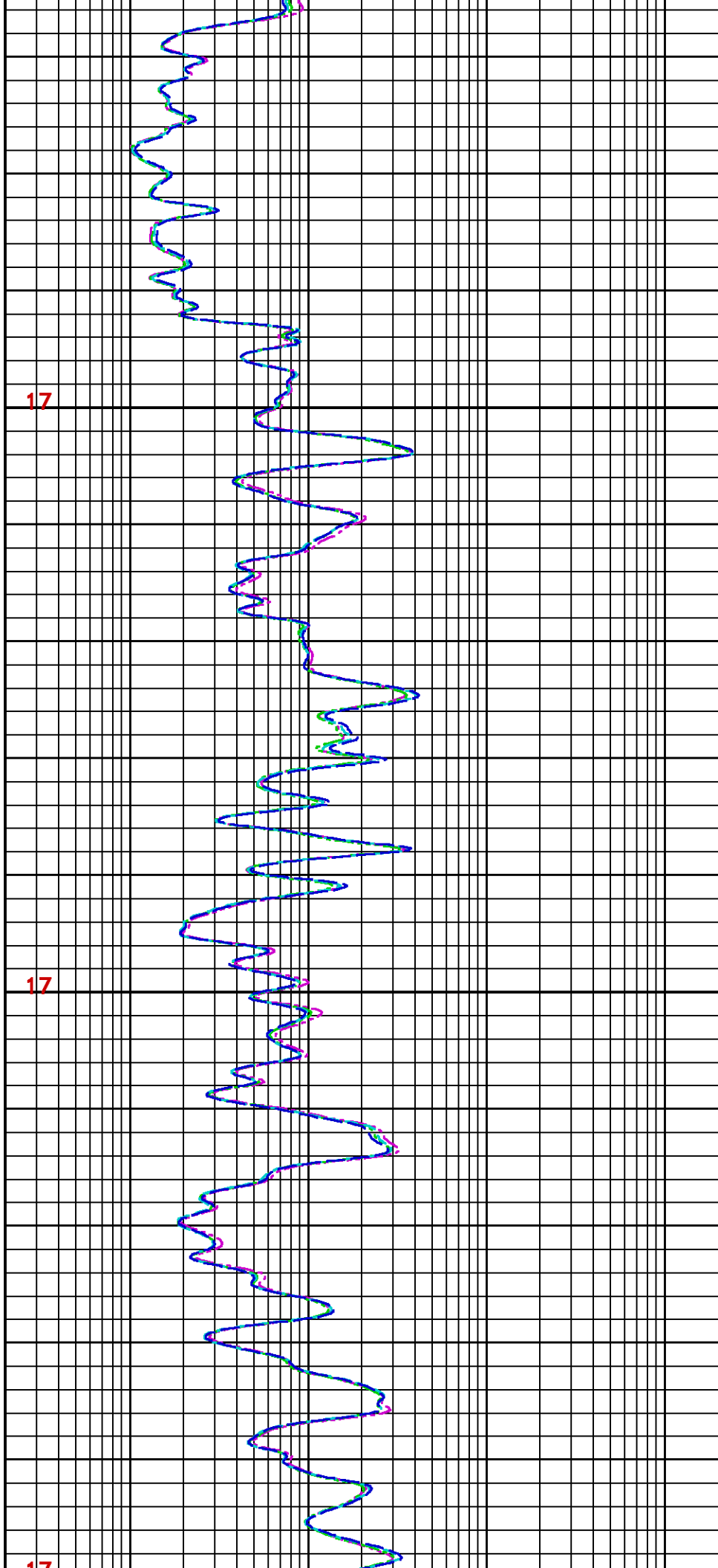
CURVE MEASURE POINT OFFSET							
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	GR	10.67	M2R6	0.84	TEN	0.00
CAL	5.52	M2R2	0.84	M2R9	0.84		
CHT	0.00	M2R3	0.84	SP	0.38		

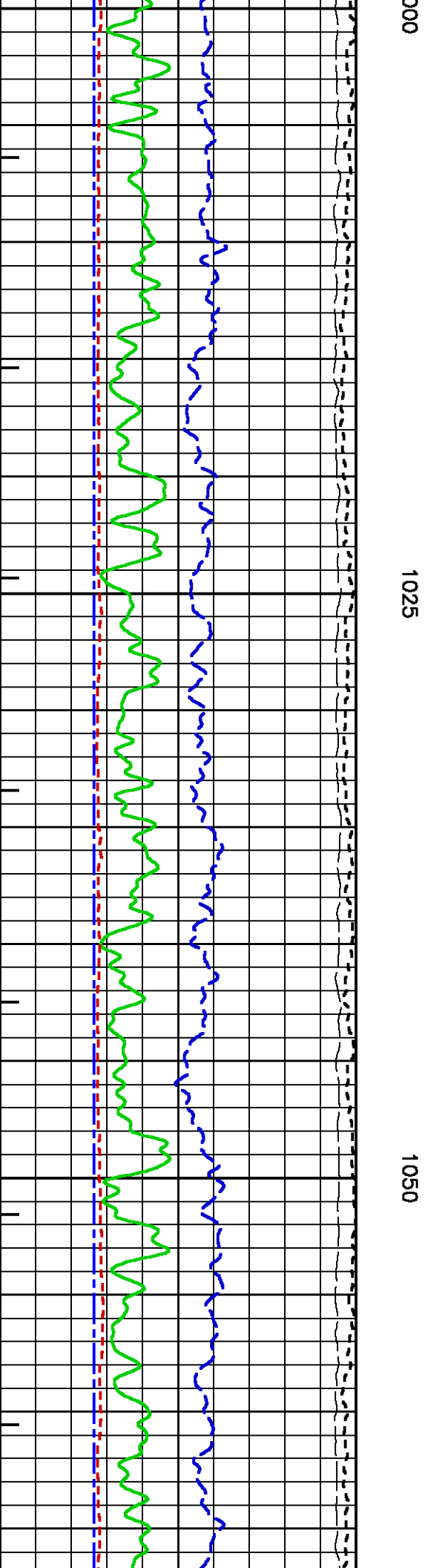
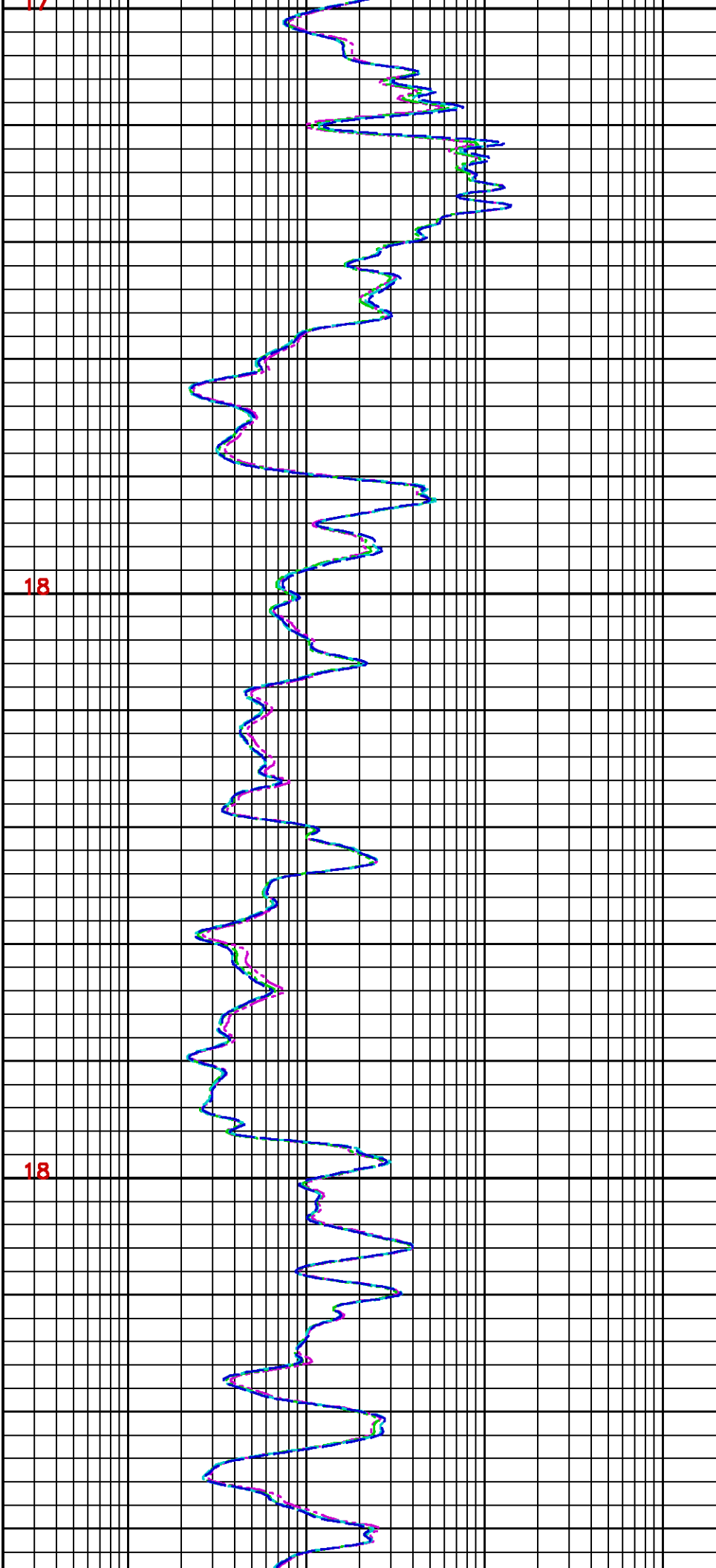
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Plot Interval : 880 - 1968.93 Meters

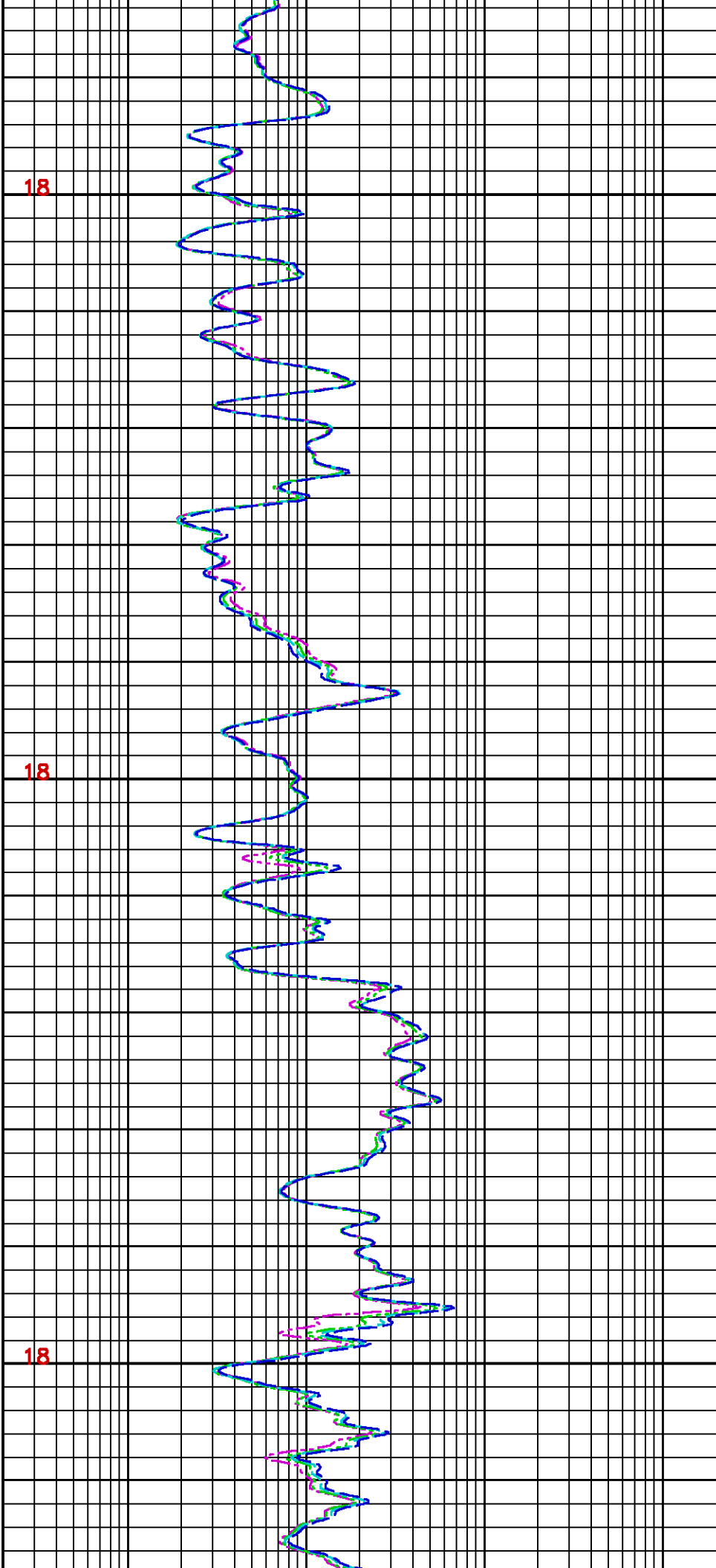
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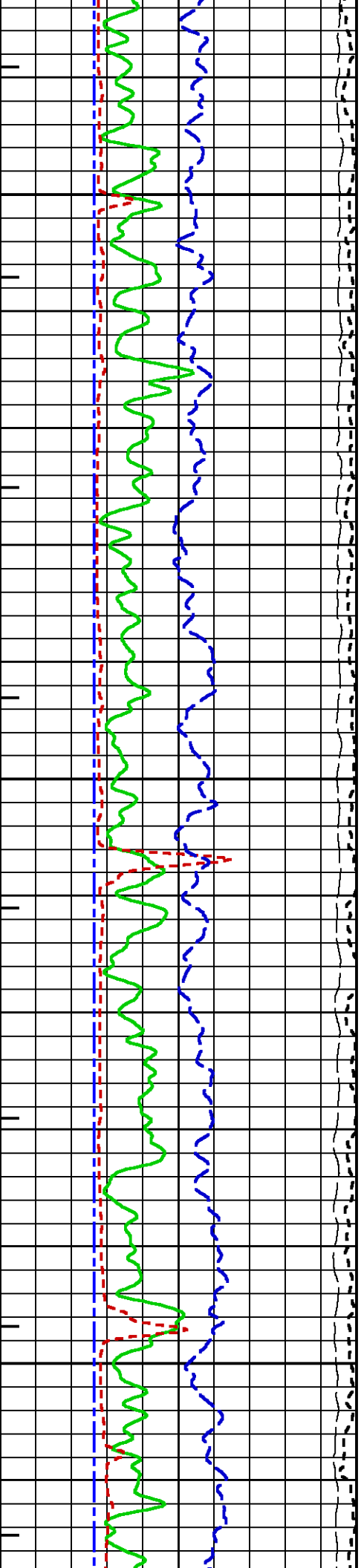


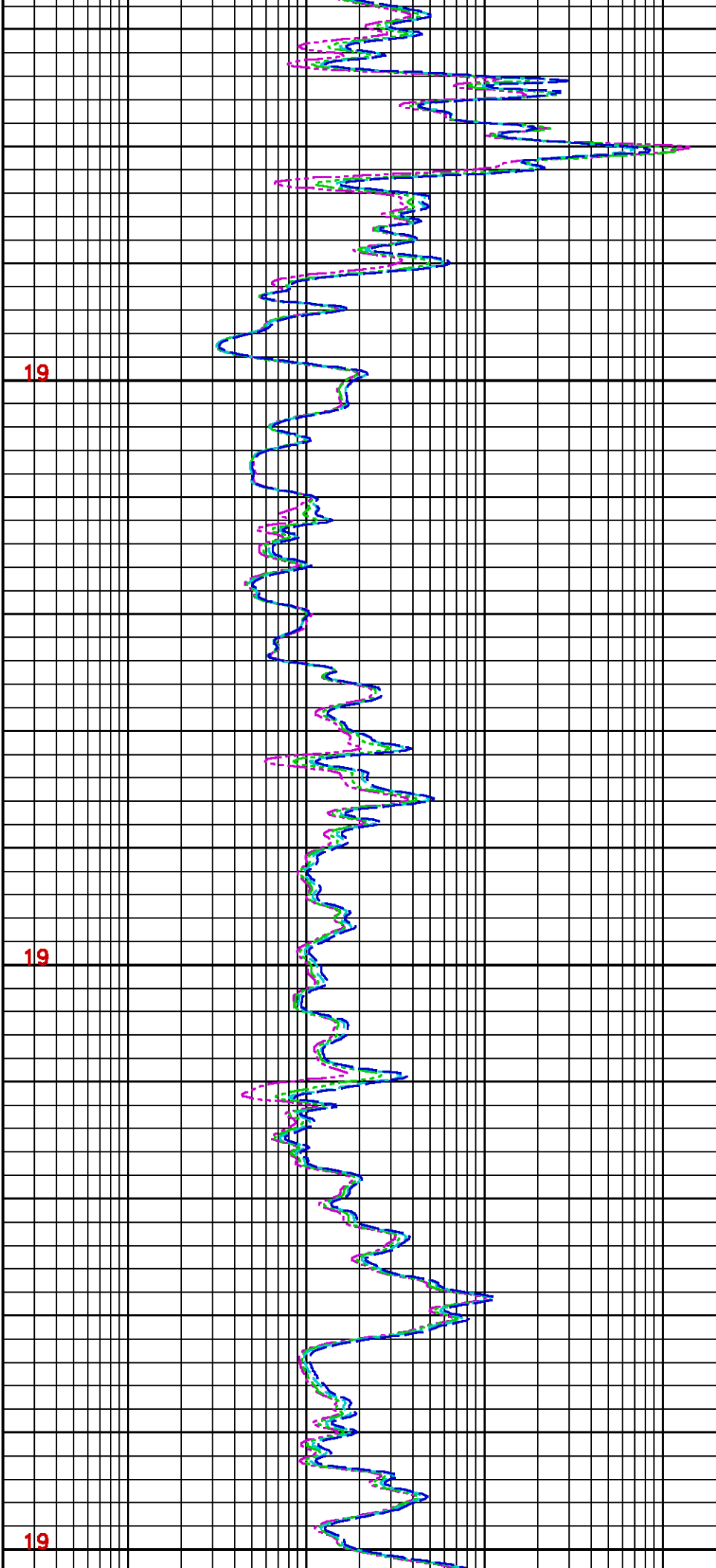


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1125

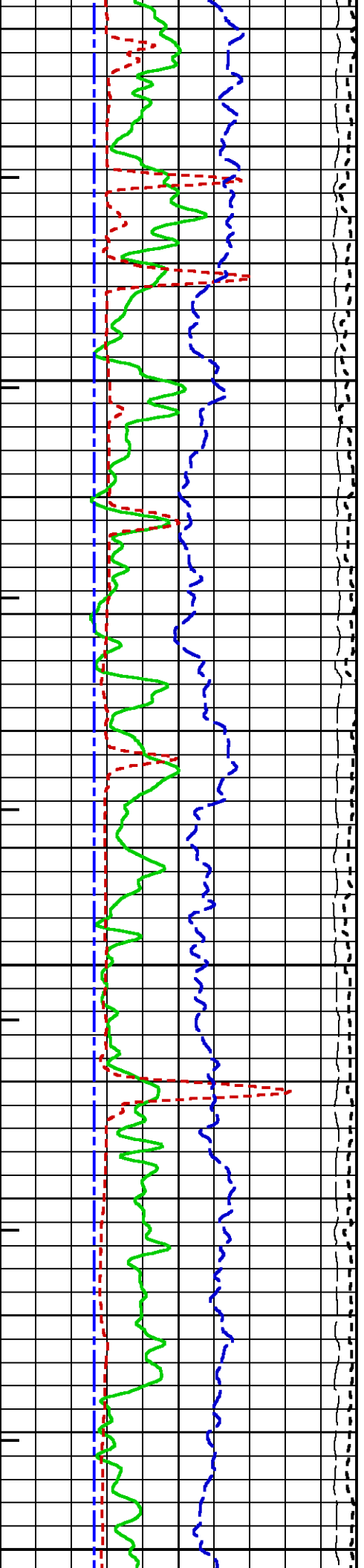


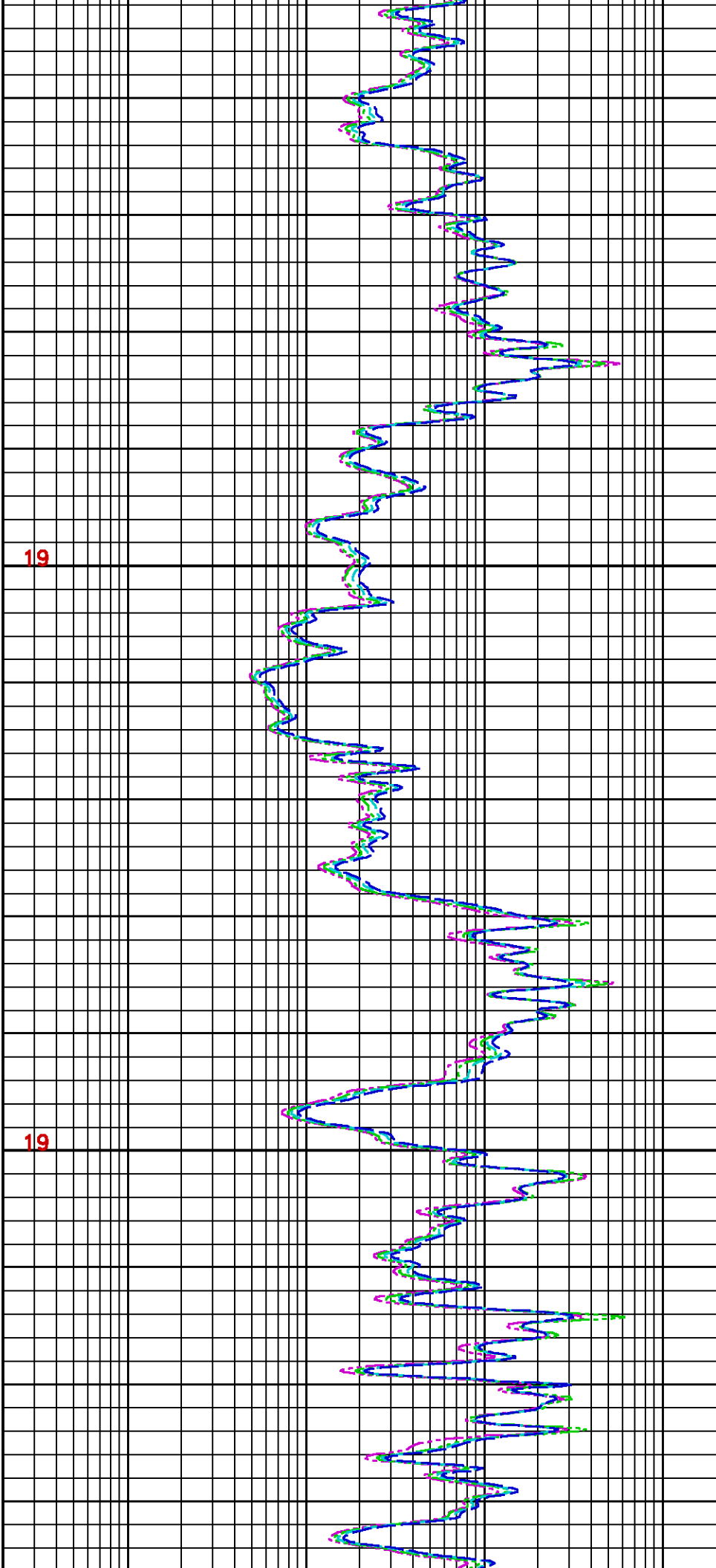


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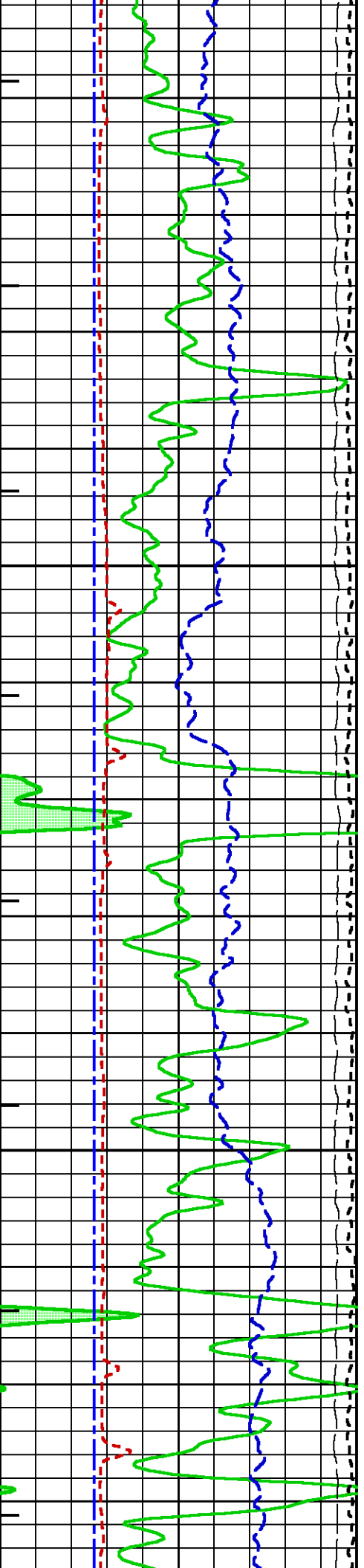
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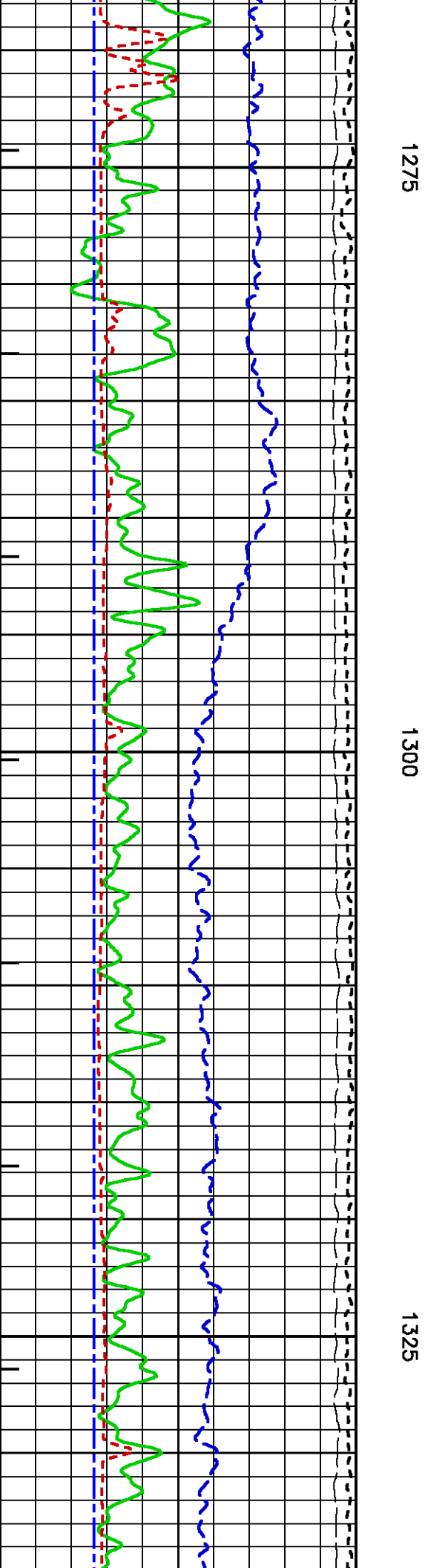
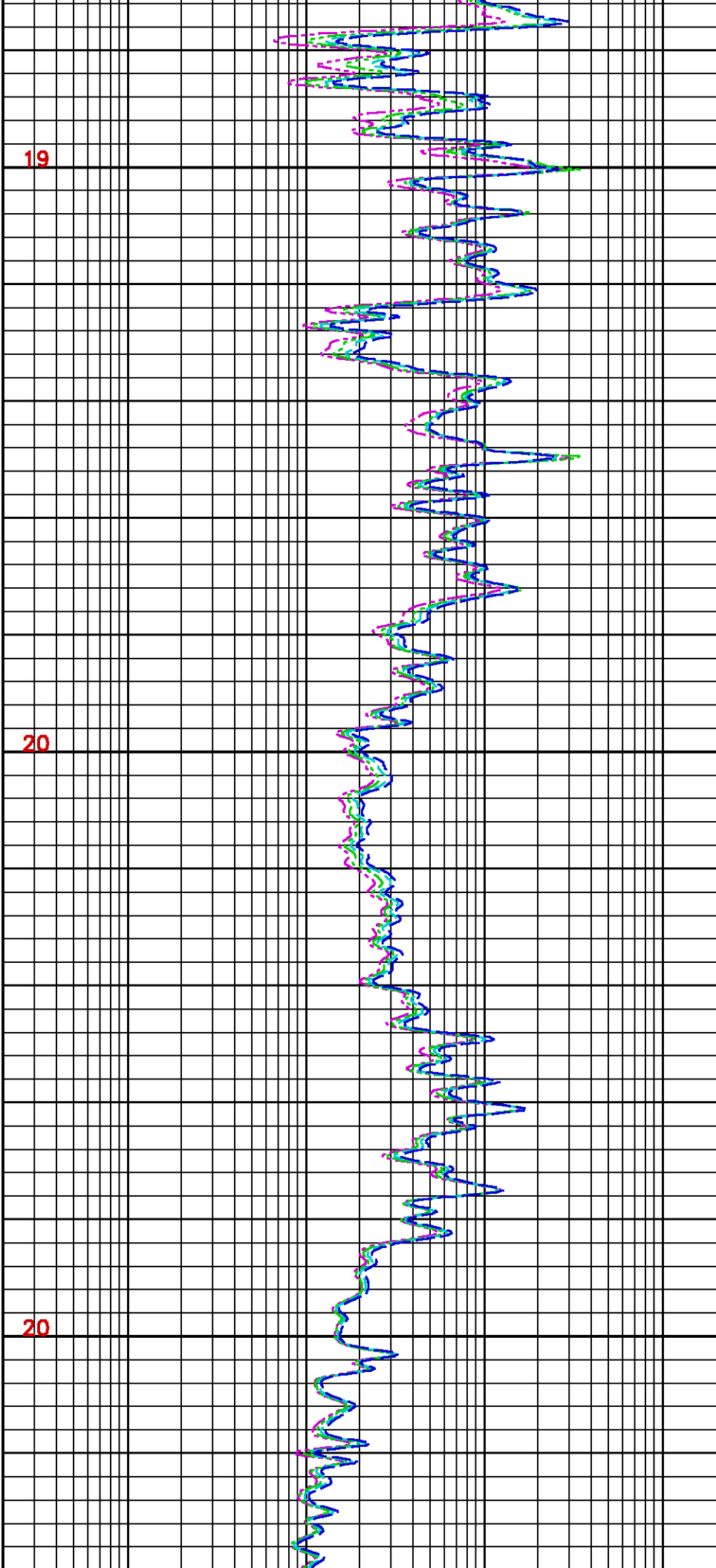


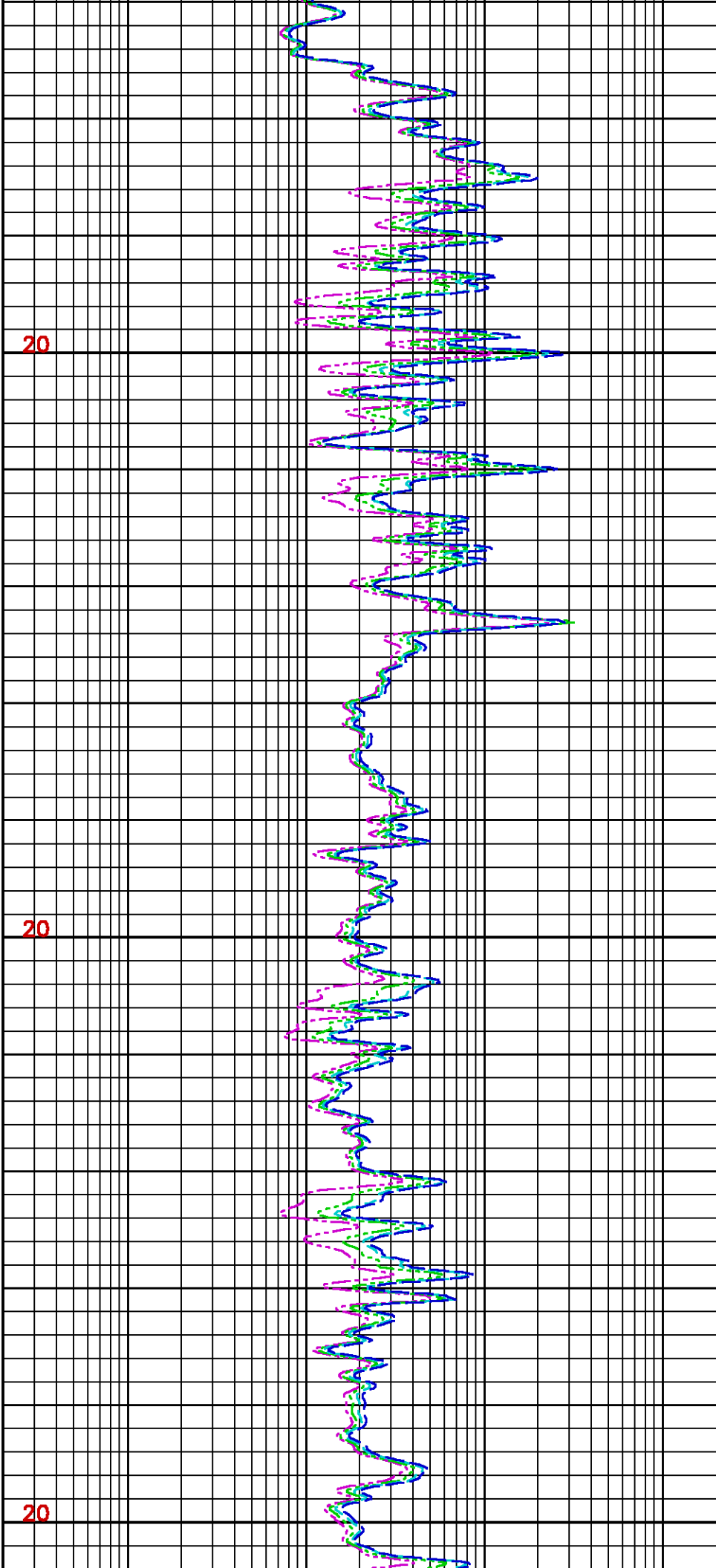


1225

1250



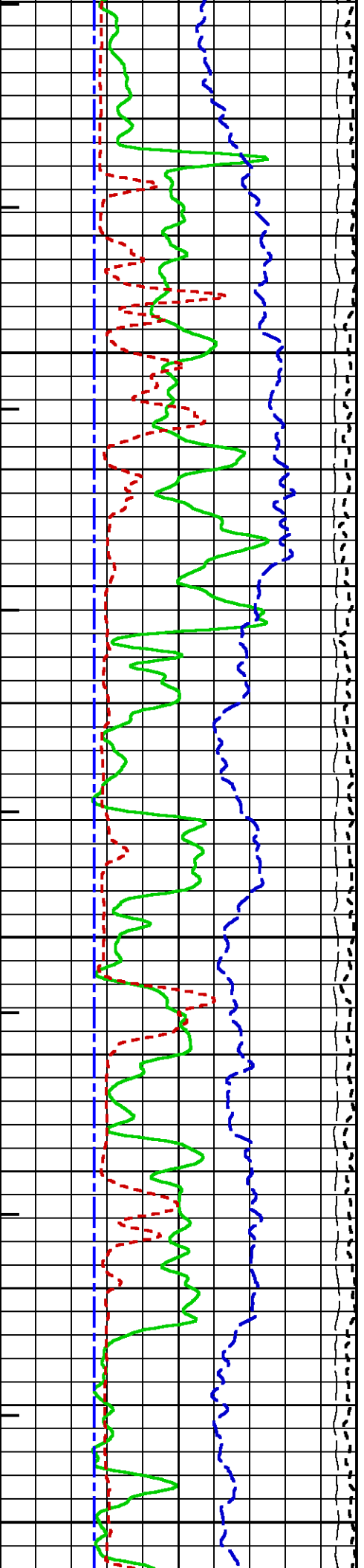


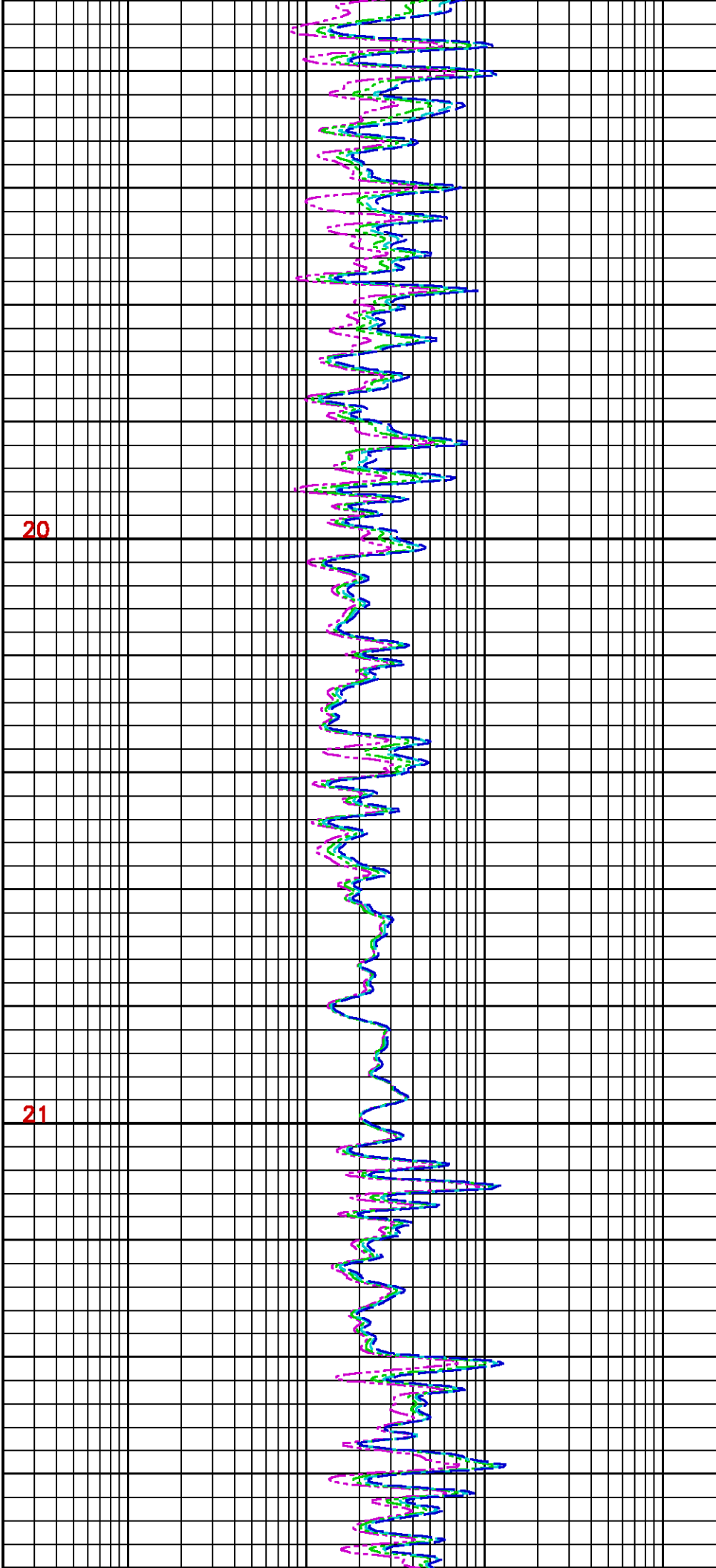


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1375

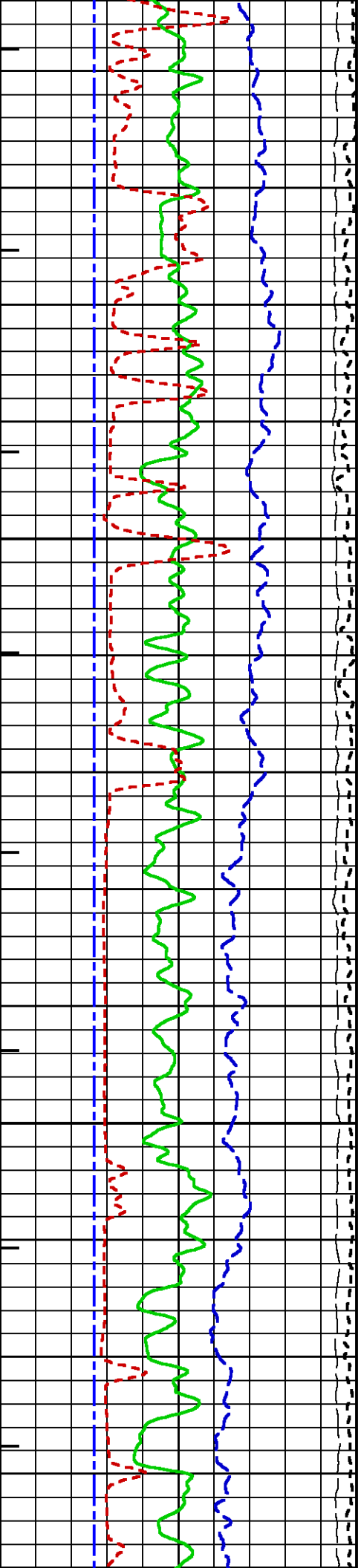
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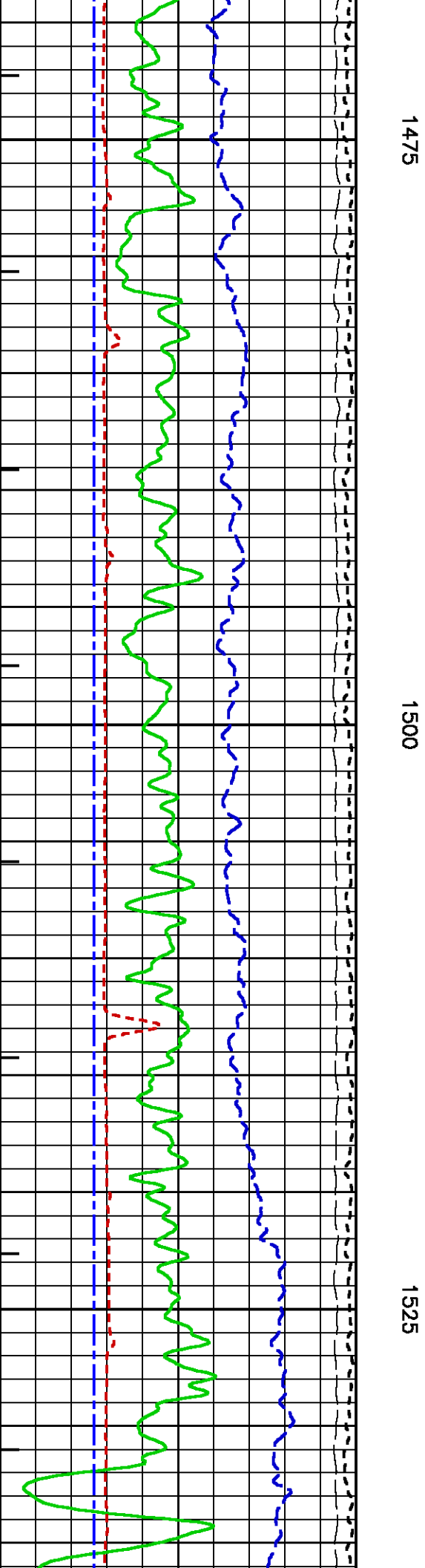
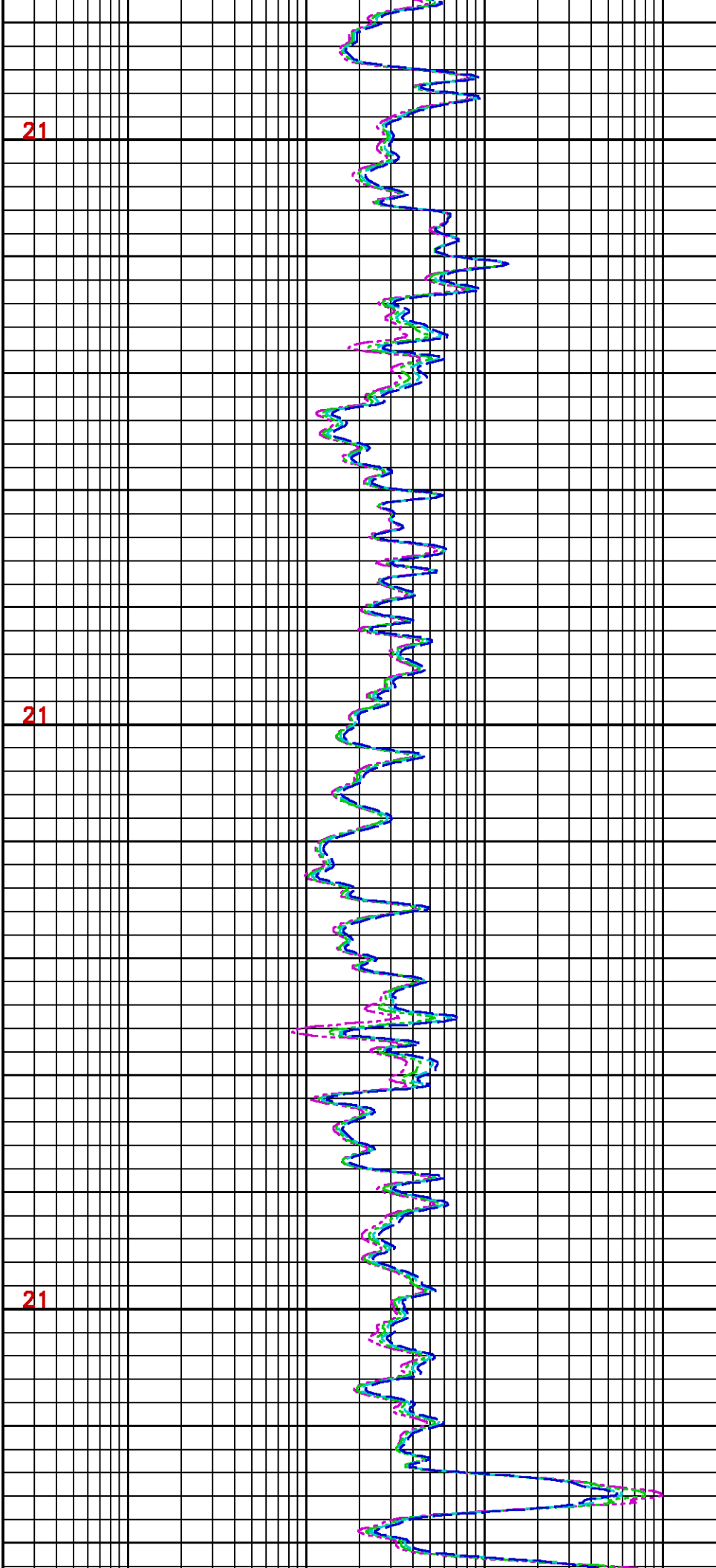


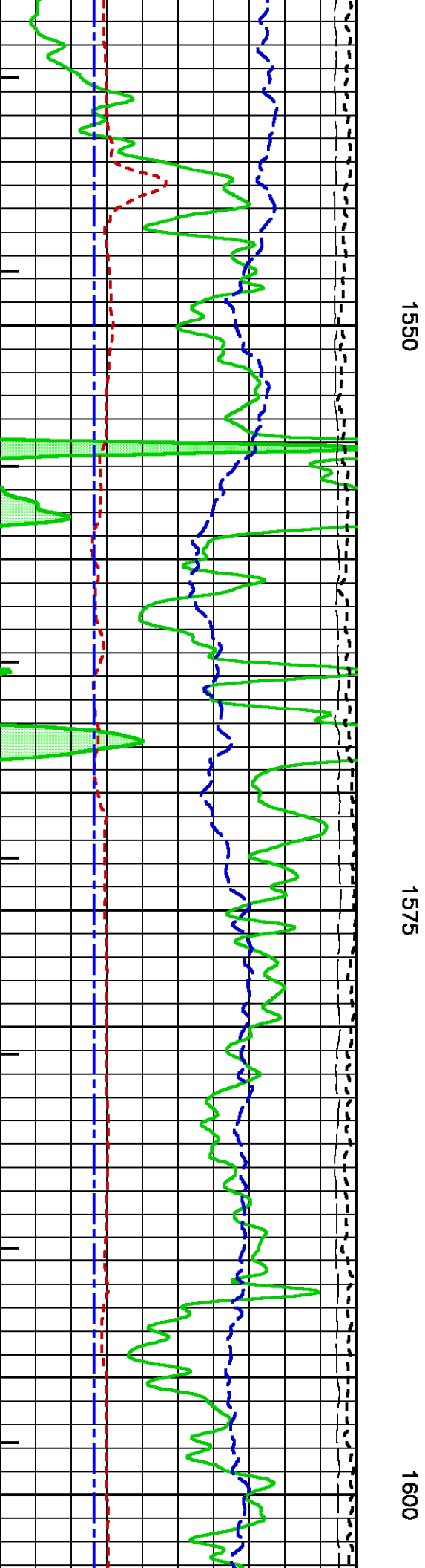
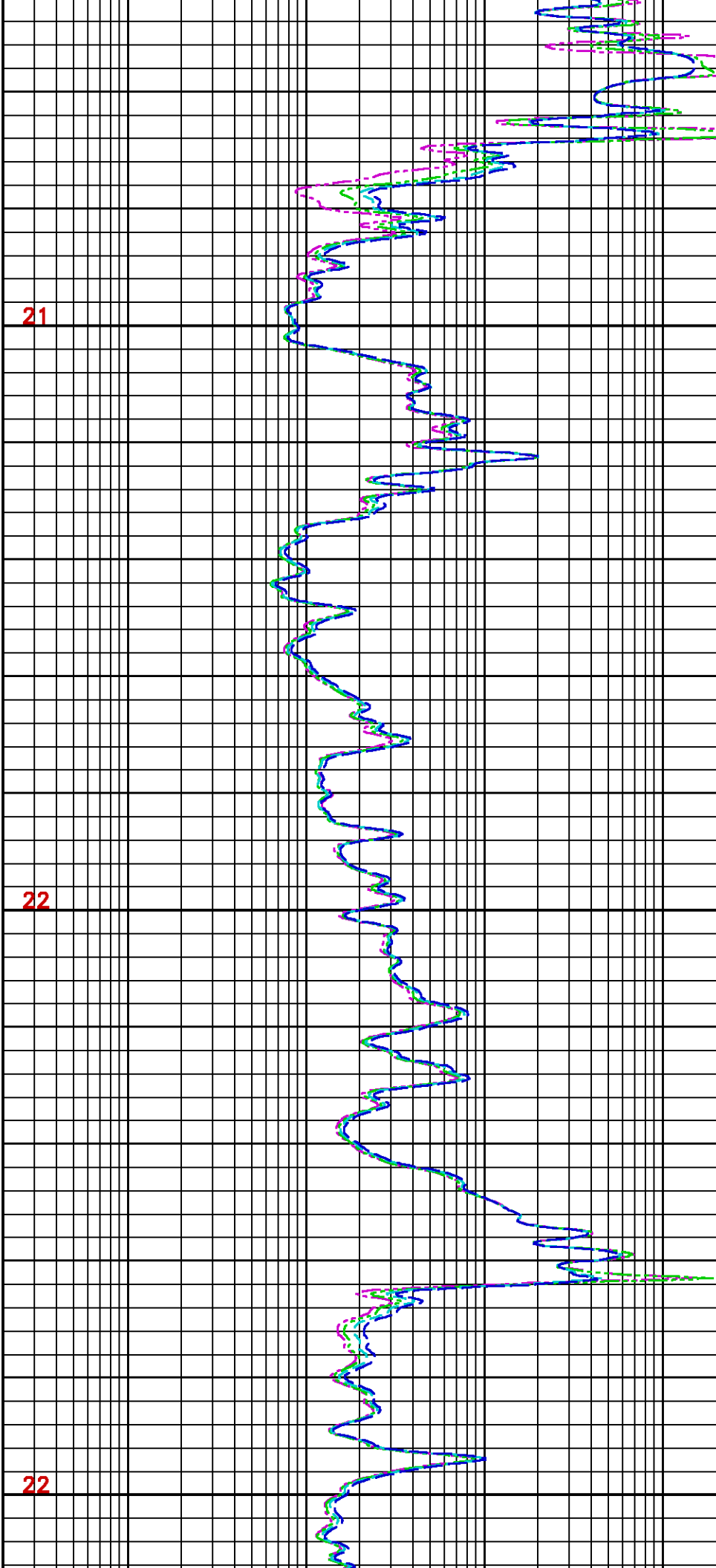


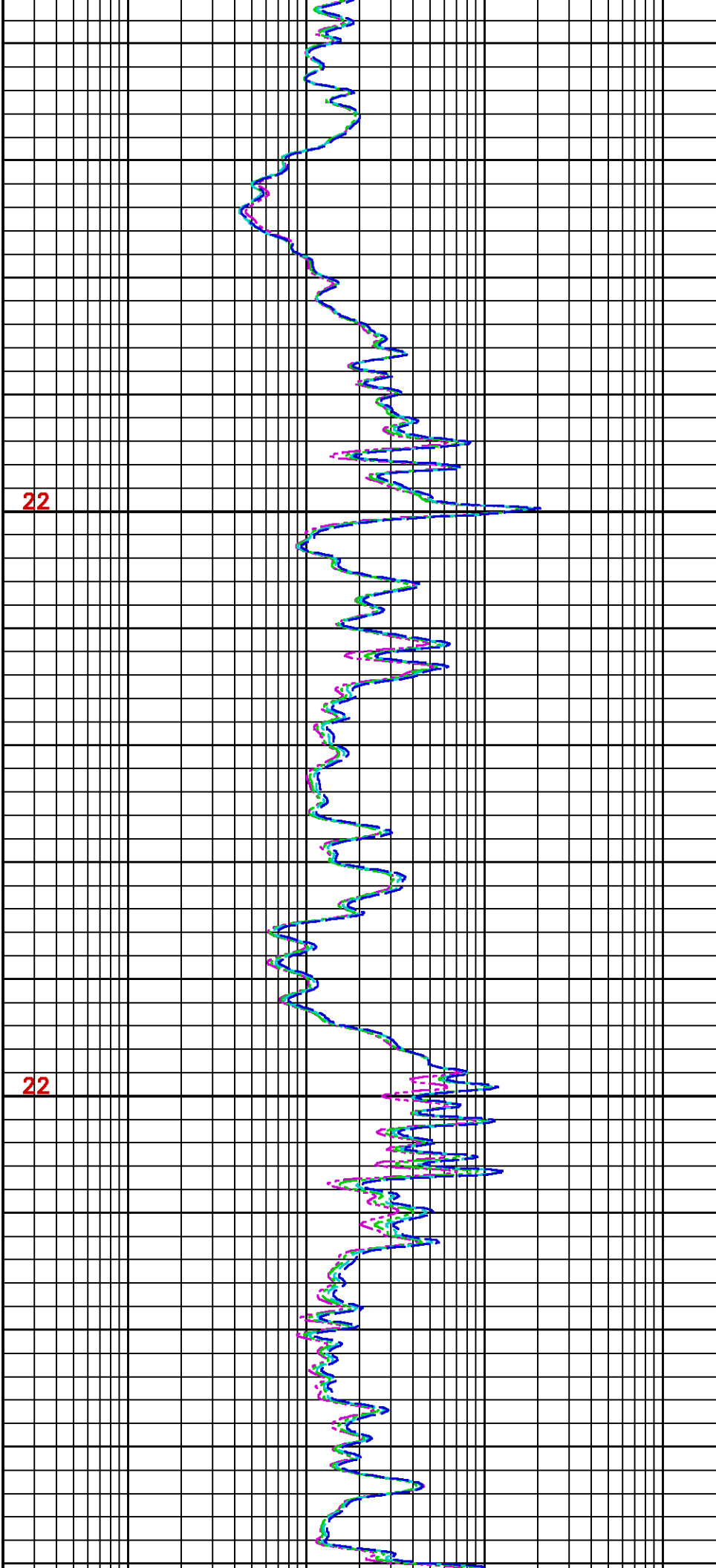
1425

1450



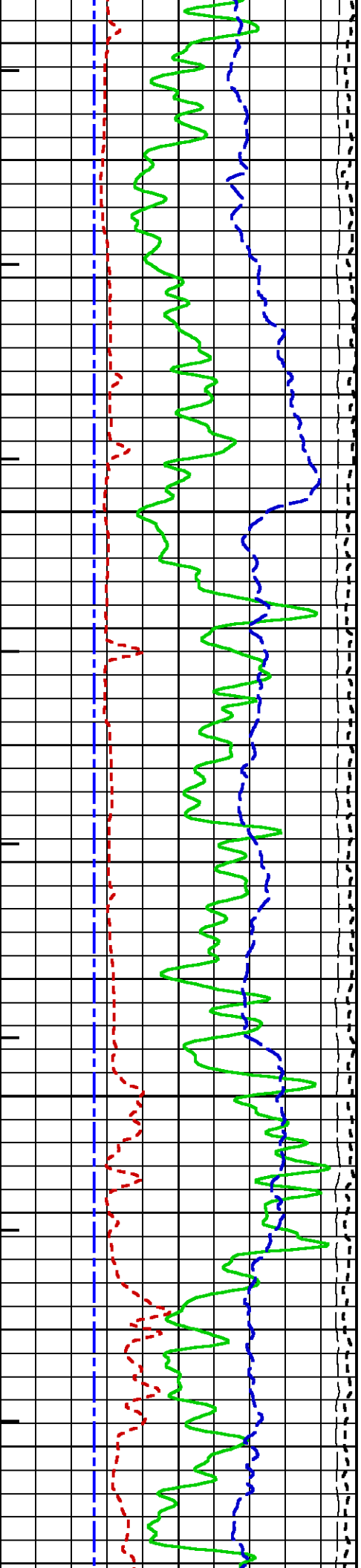


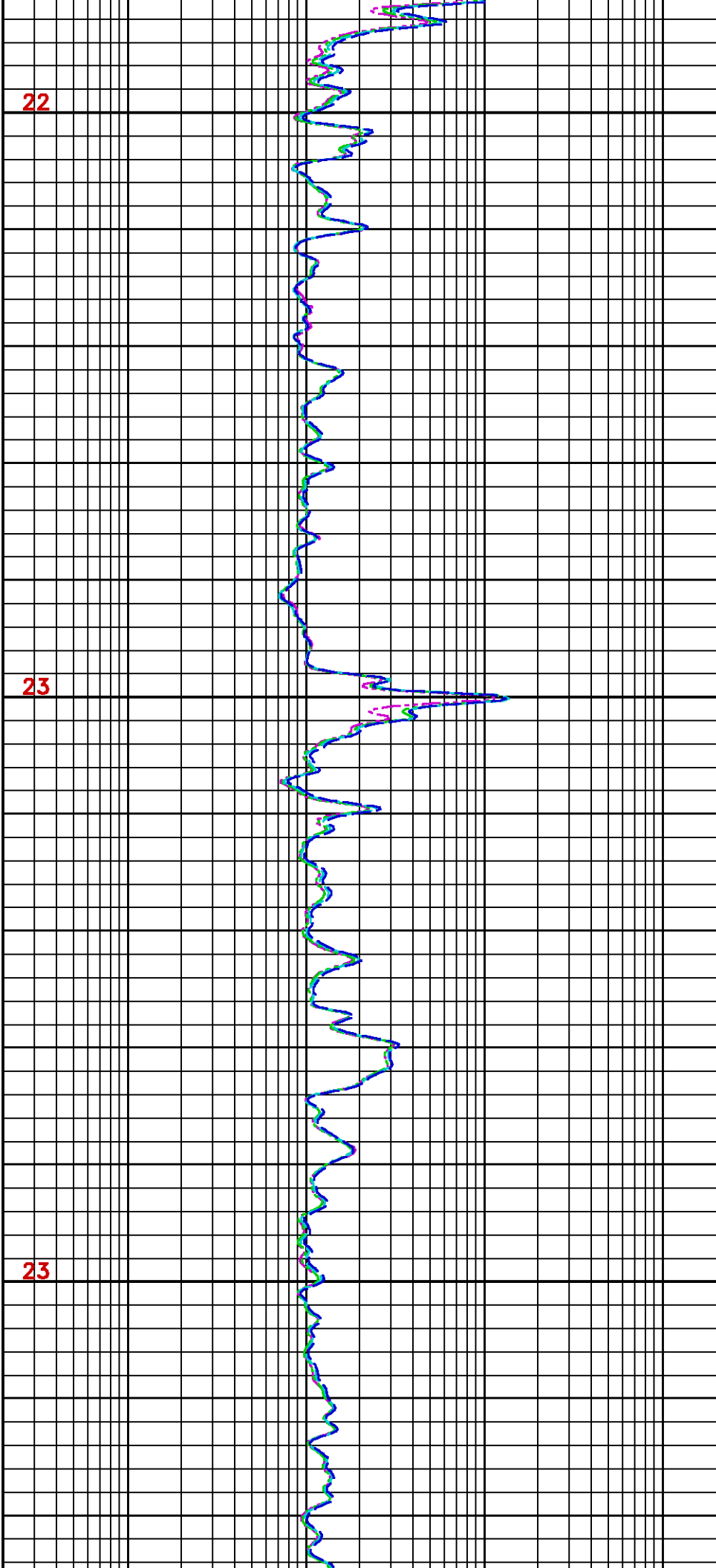




1625

1650

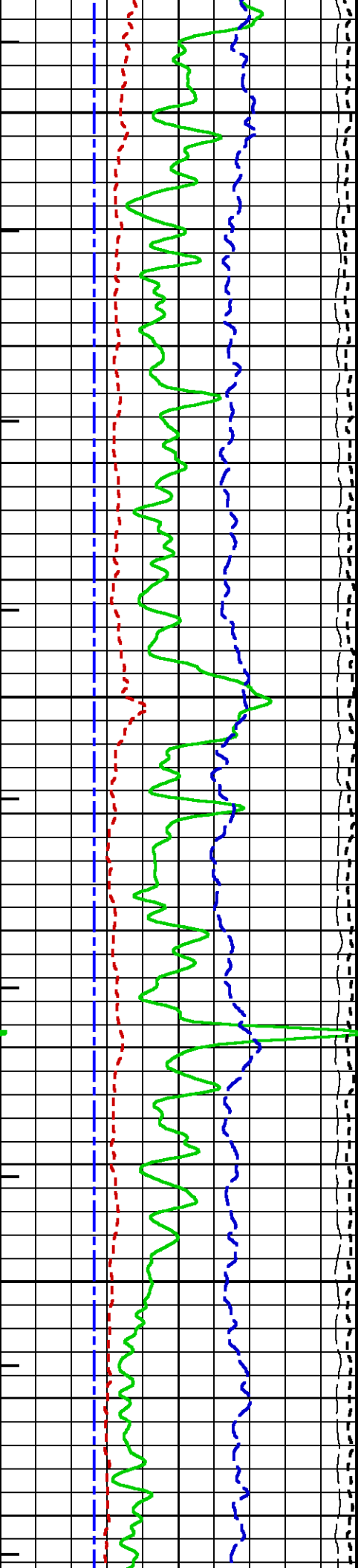


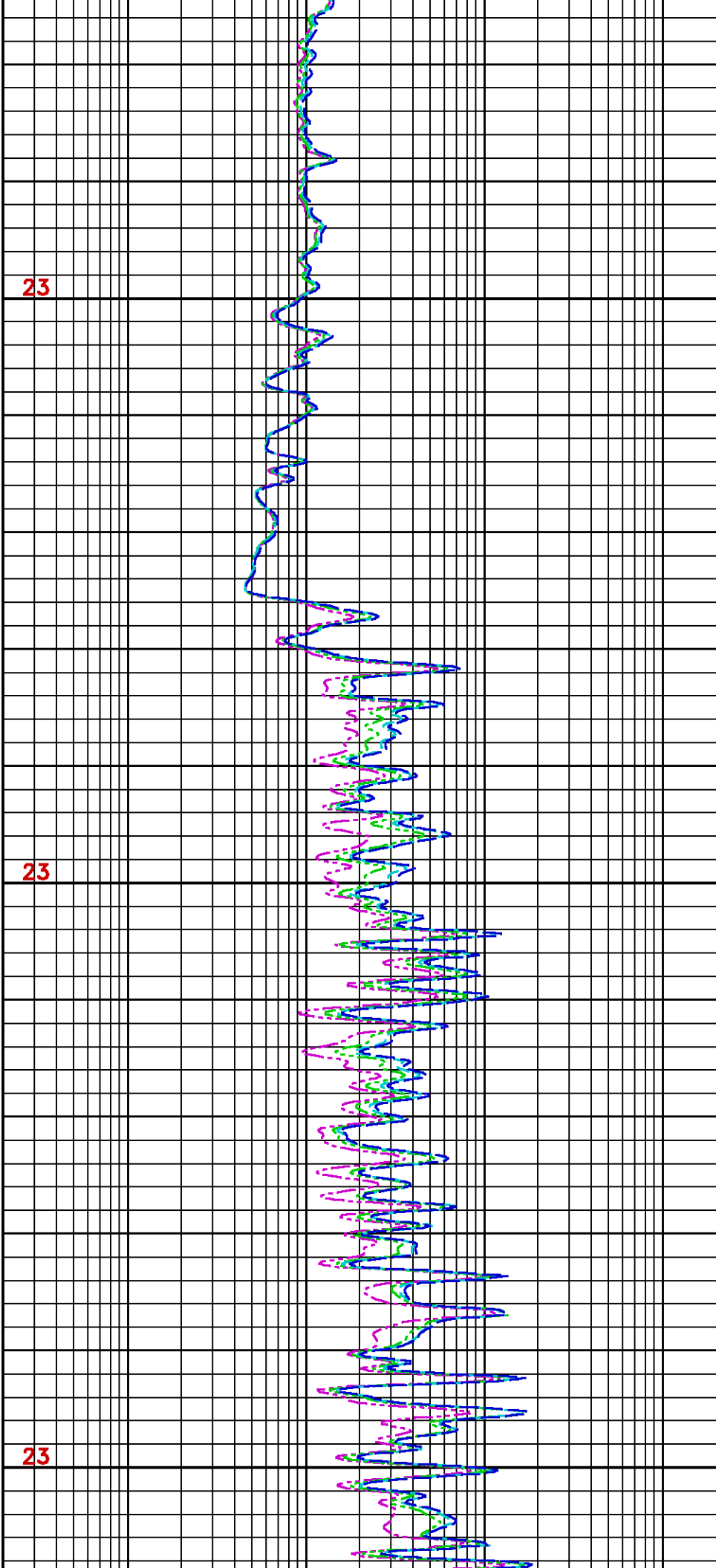


1675

1700

1725

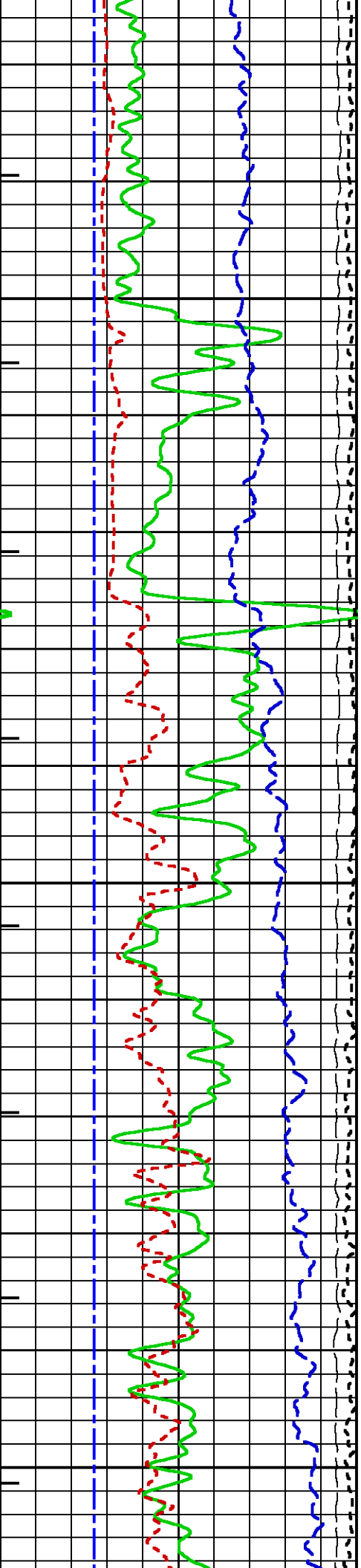


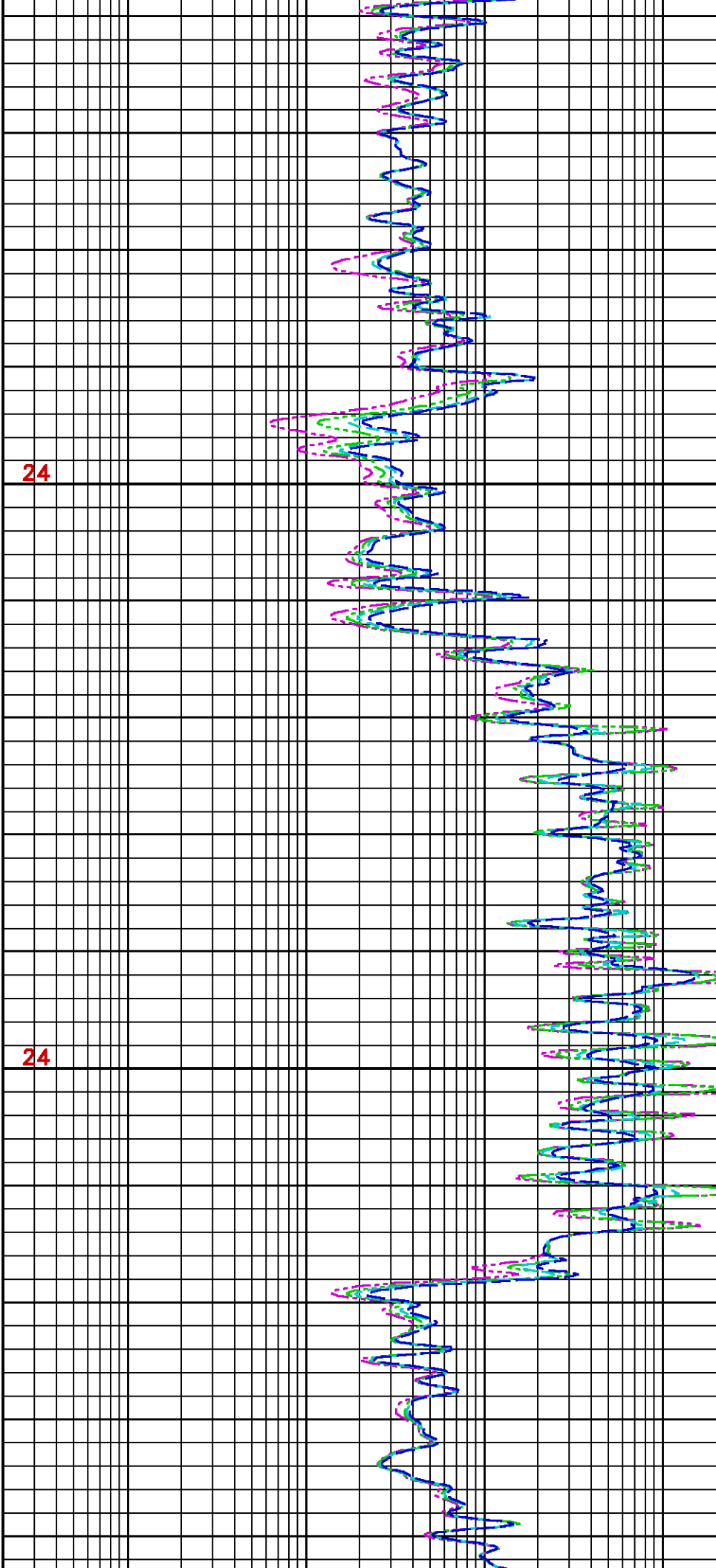


1750

1775

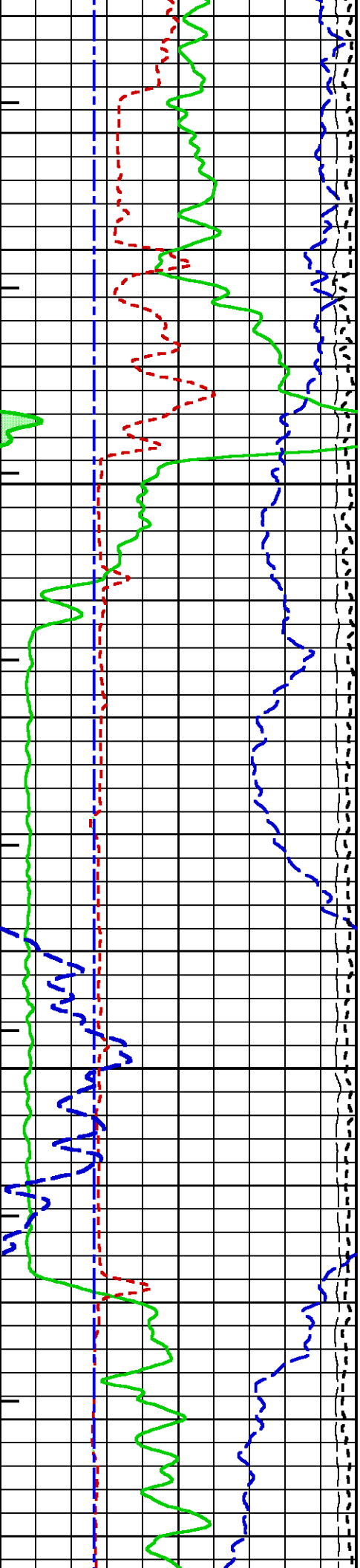
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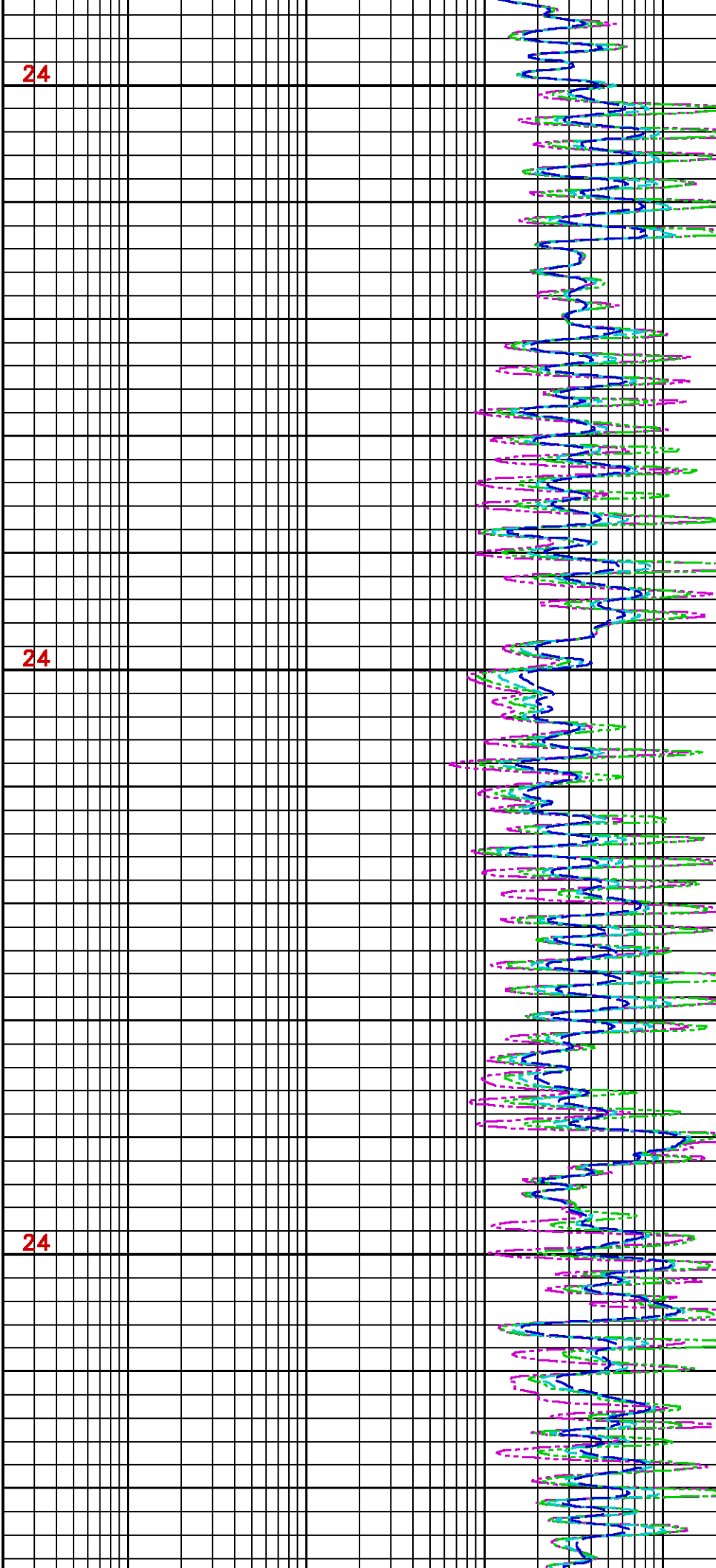




1825

1850

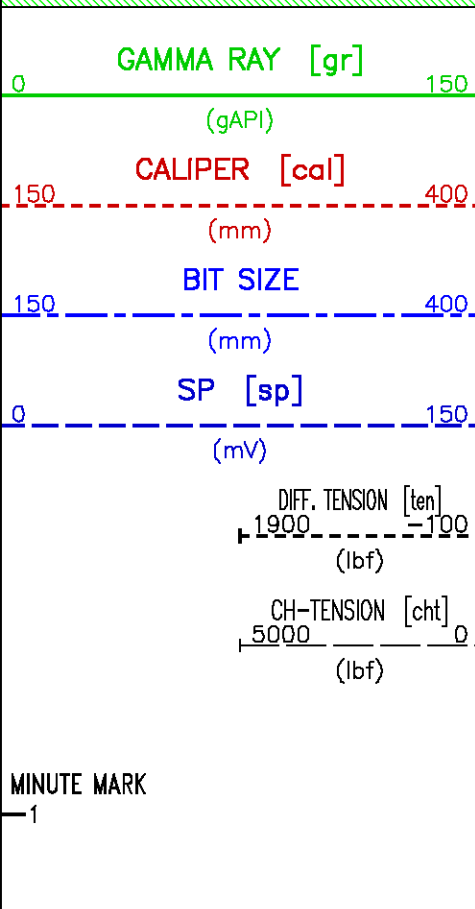
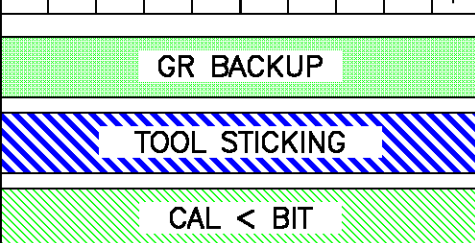
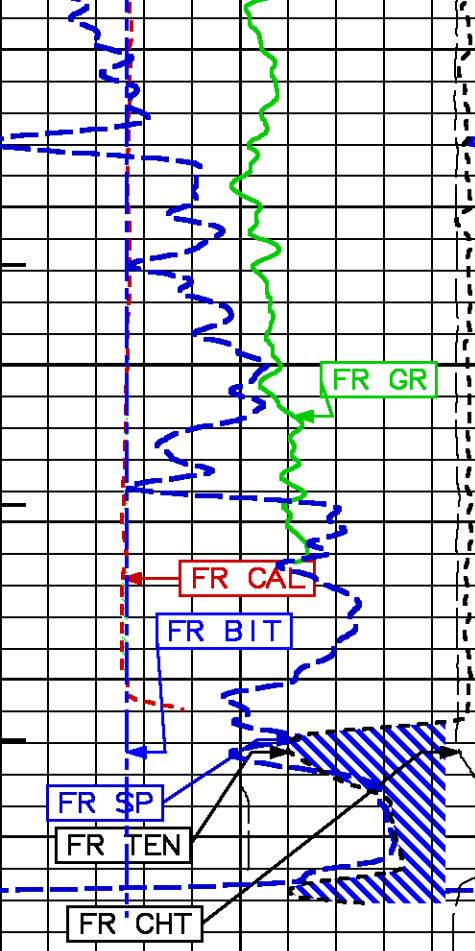




1875

1900

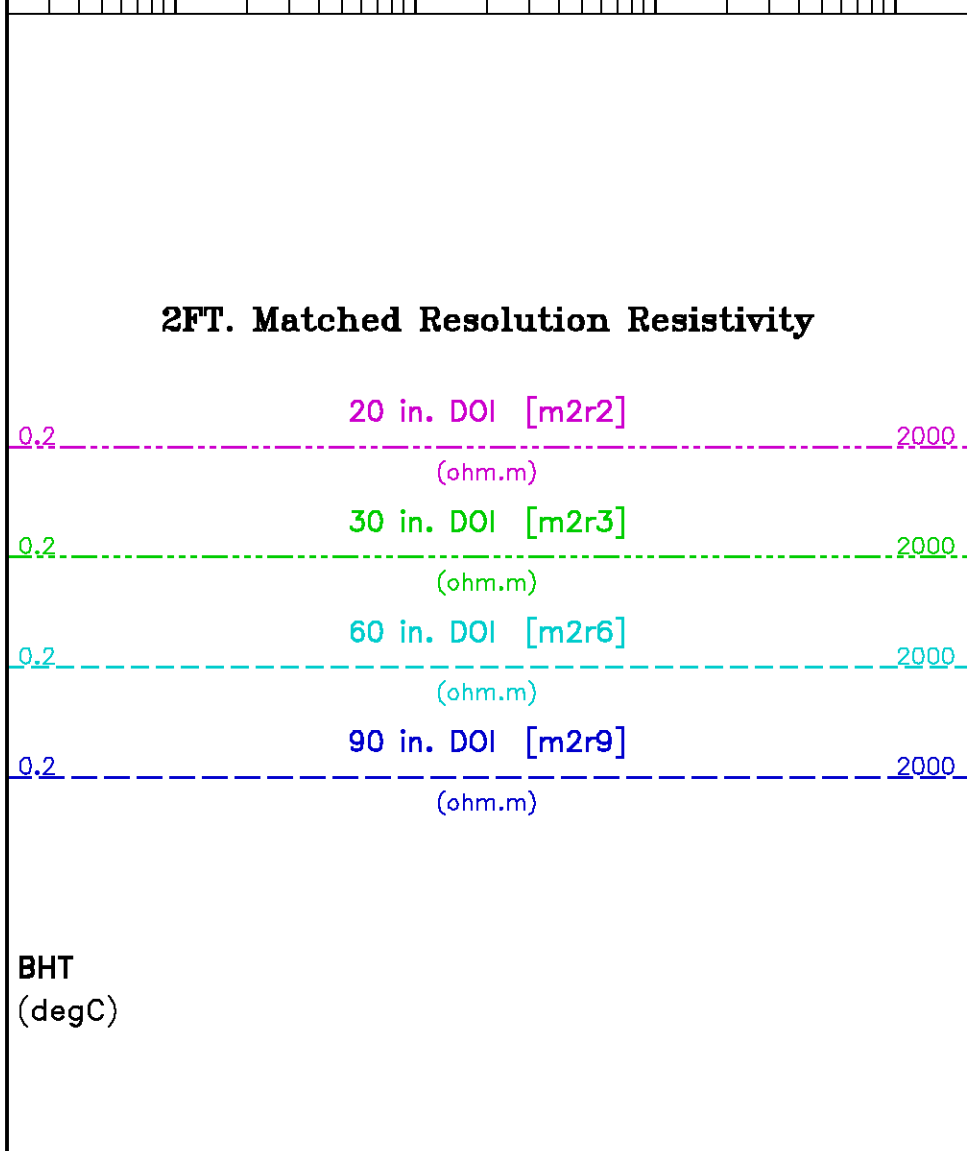
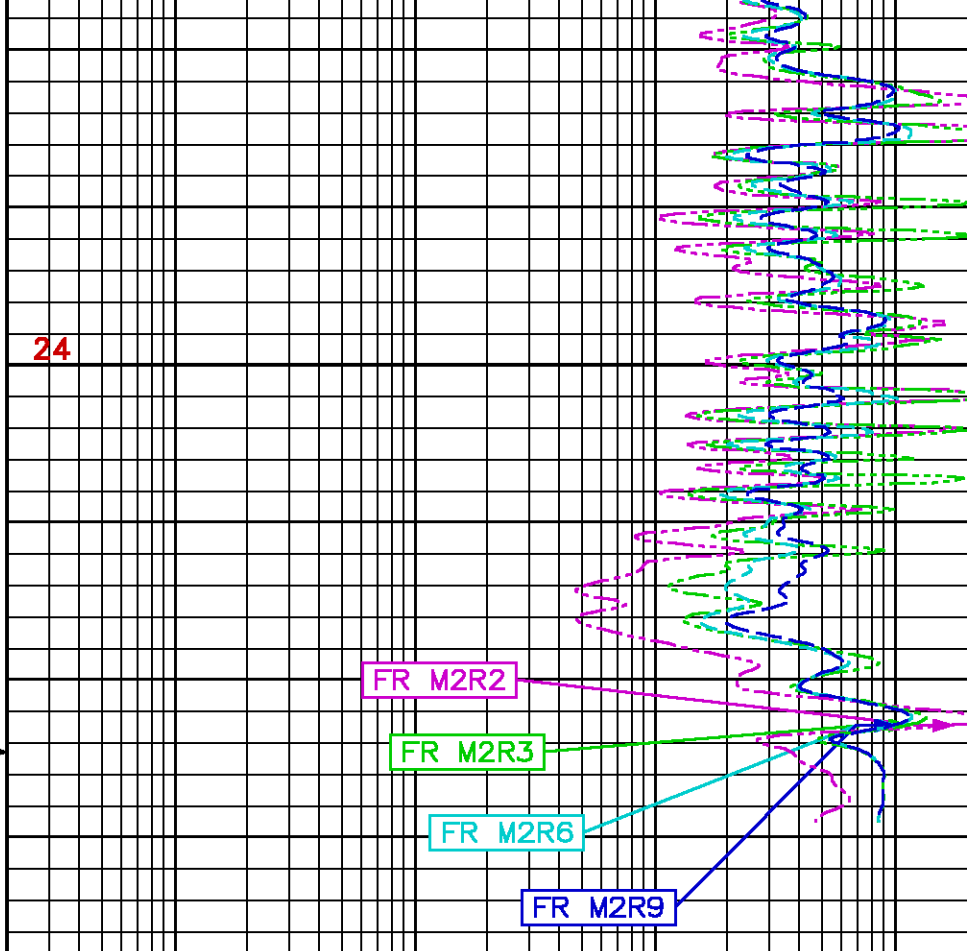
1925



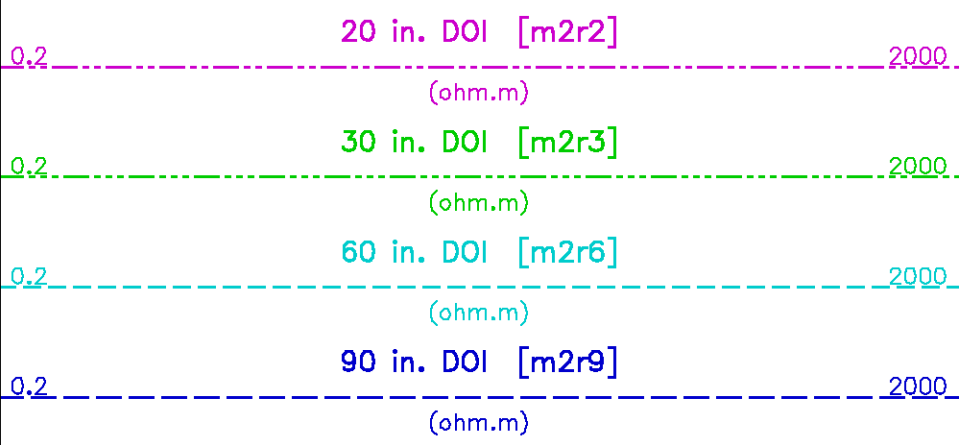
1950

TD

METERS



2FT. Matched Resolution Resistivity



BHT
(degC)

REPEAT LOG

ECLIPS 6.0i Feb 21, 2008
Updates: 1,40,43

Wed Nov 25 15:20:57 2009

Pcrplt /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.42

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pass/vulcan/k970a02.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 1818.056 m BOTTOM DEPTH: 1985.344 m

SYMMETRIC FILTER

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

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
BIT SIZE	BIT SIZE	216.000	mm	TOP	BOTTOM
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	25.0	degC	''	''
	MUD SAMPLE RES	1.000	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	15.00	mm	''	''
	TOOL POSITION	ECCENTERED		''	''
	Rmud MULTIPLIER	1.000		''	''

CURVE DESCRIPTION REPORT

CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION	
F1:BIT	BIT	Nov 25 12:50:11 2009	BIT SIZE	
F1:CAL	CAL	Nov 25 12:50:11 2009	CALIPER	
F1:CHT	CHT	Nov 25 12:50:11 2009	CABLE HEAD TENSION	
F1:GR	GR	Nov 25 12:50:11 2009	GAMMA RAY	
F1:M2R2	M2R2	Nov 25 12:50:11 2009	VERT RESOLUTION MATCHED (2 FT)	RES - DOI 20 INCH
F1:M2R3	M2R3	Nov 25 12:50:11 2009	VERT RESOLUTION MATCHED (2 FT)	RES - DOI 30 INCH
F1:M2R6	M2R6	Nov 25 12:50:11 2009	VERT RESOLUTION MATCHED (2 FT)	RES - DOI 60 INCH
F1:M2R9	M2R9	Nov 25 12:50:11 2009	VERT RESOLUTION MATCHED (2 FT)	RES - DOI 90 INCH
F1:MMRK	MMRK	Nov 25 12:50:11 2009	MINUTE MARK	

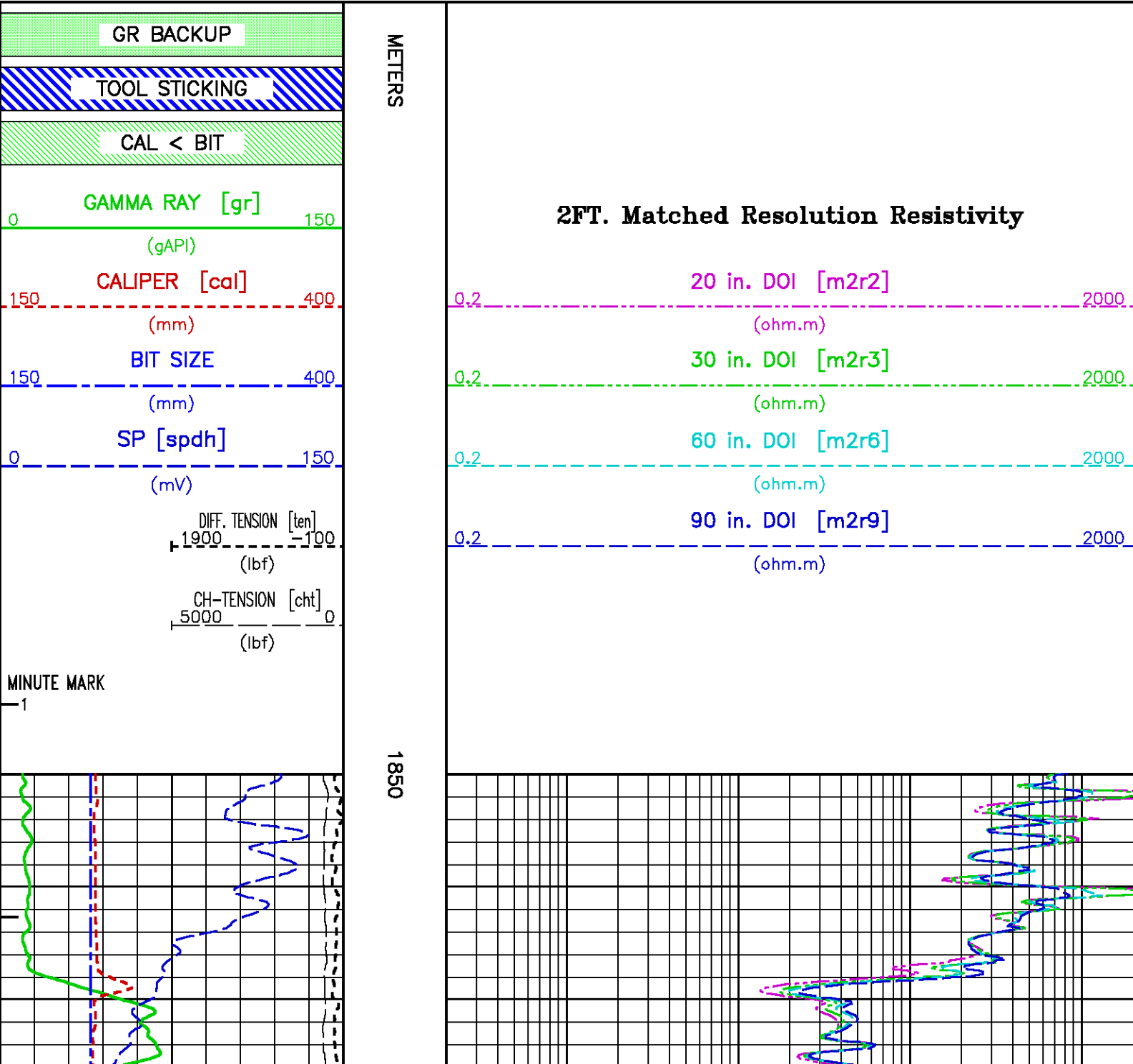
CURVE MEASURE POINT OFFSET							
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	GR	10.67	M2R6	0.84	TEN	0.00
CAL	5.52	M2R2	0.84	M2R9	0.84		
CHT	0.00	M2R3	0.84	SPDH	0.38		

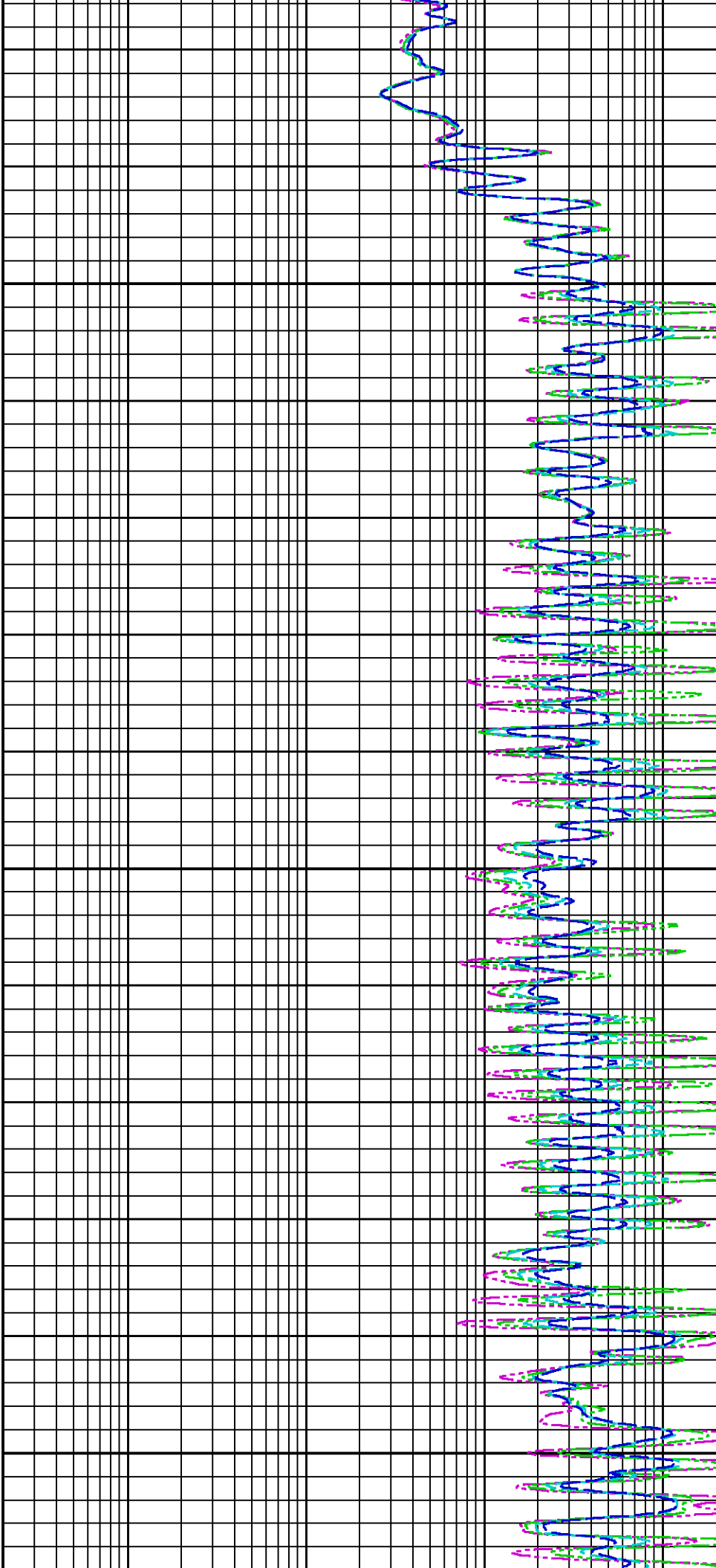
Presentation
Plot Interval

: cpu1:/dat1a/pass/vulcan/fhdll_rpt.pdf [1:240 Scale]
: 1850 - 1971.14 Meters

Data File 1
Created On
Company
Well
Field
File Interval
Oct

: F1 : cpu1:/dat1a/pass/vulcan/rpt.xtf
: Nov 25 12:50:11 2009
: VULCAN MINERALS INC.
: VULCAN INVESTCAN RED BROOK #2
: RED BROOK
: 0 - 1971.14 Meters
: k970a

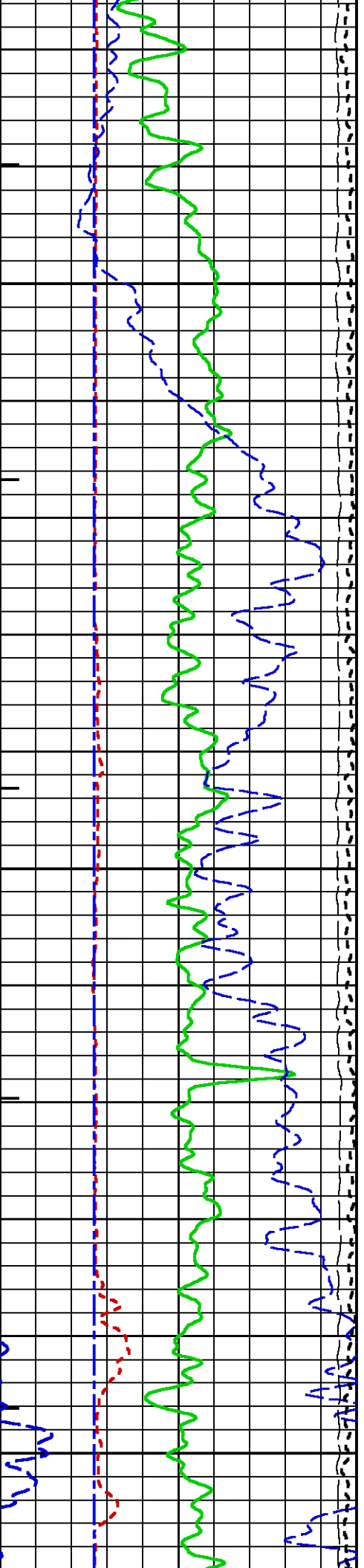


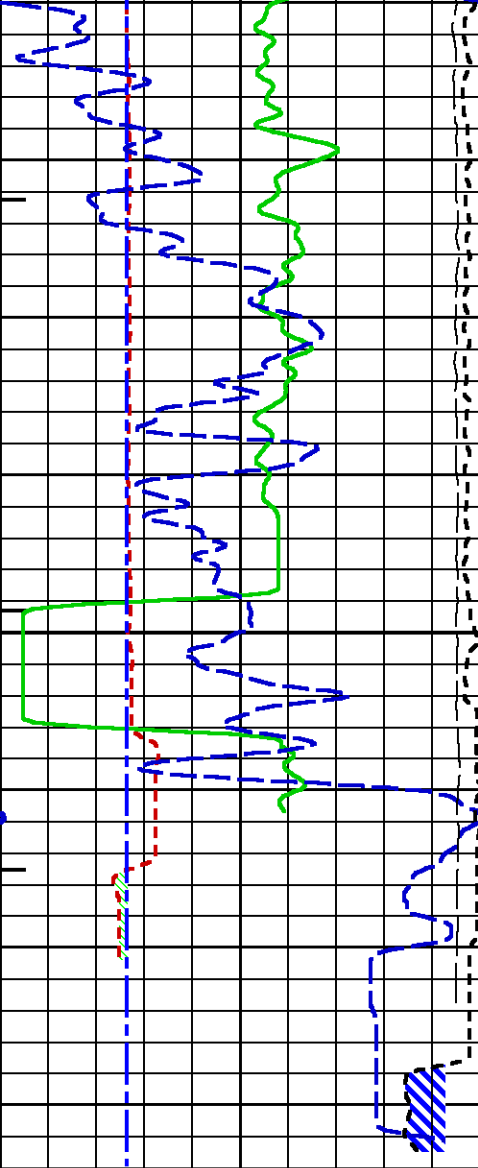


1875

1900

1925





1950

GR BACKUP

TOOL STICKING

CAL < BIT

GAMMA RAY [gr]
0 150

(gAPI)
CALIPER [cal]
150 400
(mm)

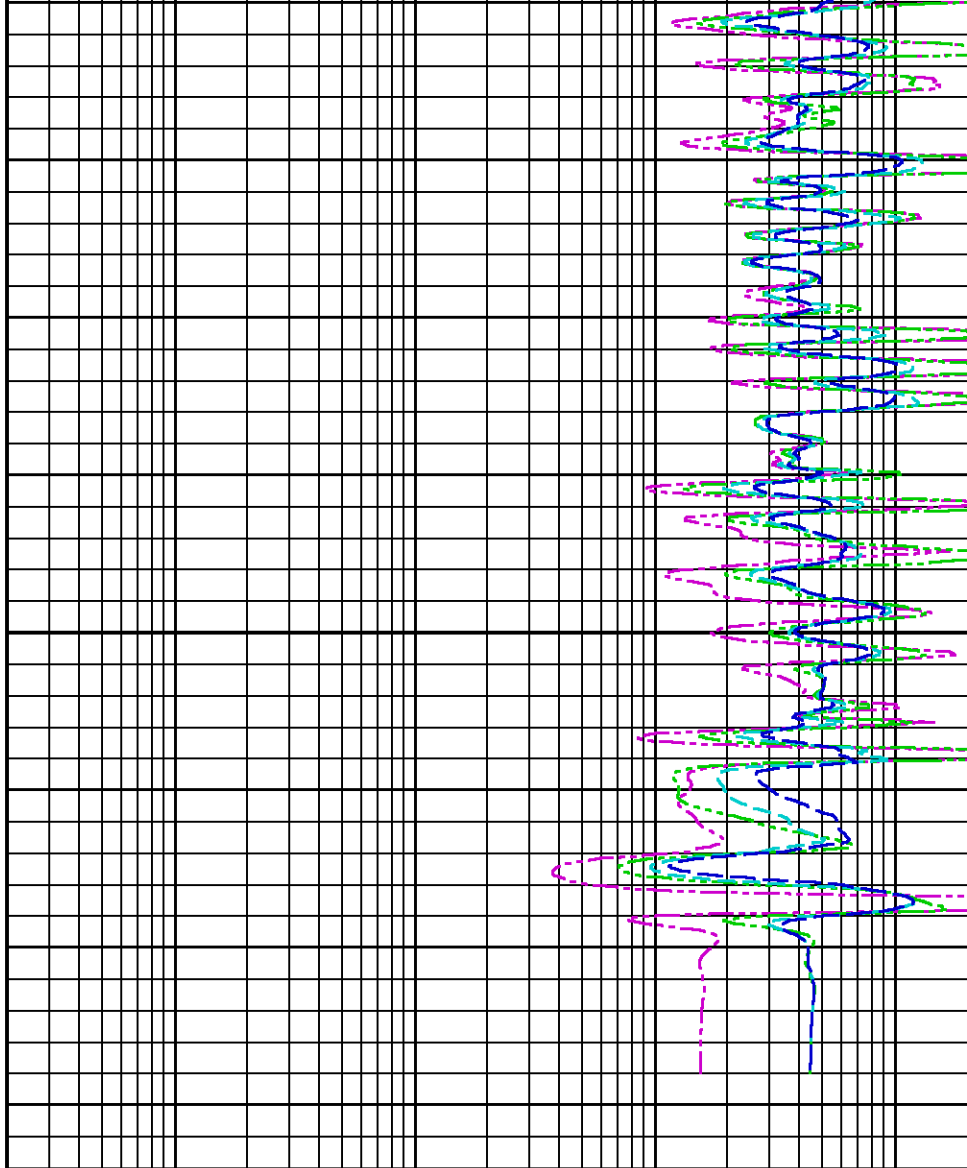
BIT SIZE
150 400
(mm)

SP [spdh]
0 150
(mV)

DIFF. TENSION [ten]
1900 -100
(lbf)

CH-TENSION [cht]
5000 0
(lbf)

METERS



2FT. Matched Resolution Resistivity

20 in. DOI [m2r2]
0.2 2000
(ohm.m)

30 in. DOI [m2r3]
0.2 2000
(ohm.m)

60 in. DOI [m2r6]
0.2 2000
(ohm.m)

90 in. DOI [m2r9]
0.2 2000
(ohm.m)

CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/pass/vulcan/k970a.lp1

GR PRIMARY CALIBRATION SUMMARY

Tool #: 3518EG 10395627

DATE/TIME PERFORMED: Wed Nov 25 11:08:43 2009

Unit #: 3880TA HL6555

Jlg Series: 4702NK DA_305

Background	Calibrator ON	Jlg Value (gAPI)	Mult	Background (gAPI)	Calibrator ON (gAPI)
33.71	786.82	185	0.246 0.230 0.280	8.28	193.28

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 3518EG 10395627

DATE/TIME PERFORMED: Wed Nov 25 11:18:42 2009

DAYS SINCE CAL: 0

UNIT #: 3880TA HL6555

Jlg: INTRNL N/A

Counts	TEMP (degC)	HV (V)
976.67 929.00 1027.00	16.80 280.00	1361.74 1237.00 1512.00

GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 3518EG 10395627

DATE/TIME PERFORMED: Wed Nov 25 15:36:53 2009

DAYS SINCE CAL: 0

UNIT #: 3880TA HL6555

Jlg: INTRNL N/A

Counts	TEMP (degC)	HV (V)
976.67 929.00 1027.00	21.35 280.00	1361.74 1237.00 1512.00

HDIL PRIMARY CALIBRATION SUMMARY

TOOL #: 1530XA 10132721

DATE/TIME PERFORMED: Wed Aug 19 15:37:12 2009

UNIT #: 3880TA HL6555

GRCOND ID & DATE: Nlsku 52208

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	0.0030 -0.2000 0.2000	-0.0004 -0.1000 0.1000	-0.0005 -0.1000 0.1000	0.0000 -0.1000 0.1000	-0.0007 -0.1000 0.1000	-0.0004 -0.1000 0.1000	0.0000 -0.1000 0.1000	-0.0002 -0.1000 0.1000
Coil 0 Q	-0.0036 -0.5000 0.5000	-0.0009 -0.2000 0.2000	0.0006 -0.1000 0.1000	-0.0001 -0.1000 0.1000	-0.0002 -0.1000 0.1000	-0.0000 -0.1000 0.1000	-0.0001 -0.1000 0.1000	0.0001 -0.1000 0.1000
Coil 1 R	-0.0061 -0.2000 0.2000	0.0014 -0.1000 0.1000	-0.0004 -0.1000 0.1000	-0.0005 -0.1000 0.1000	0.0005 -0.1000 0.1000	-0.0007 -0.1000 0.1000	-0.0012 -0.1000 0.1000	0.0004 -0.1000 0.1000
Coil 1 Q	-0.0081 -0.5000 0.5000	0.0013 -0.2000 0.2000	-0.0022 -0.1000 0.1000	0.0005 -0.1000 0.1000	-0.0005 -0.1000 0.1000	-0.0004 -0.1000 0.1000	0.0008 -0.1000 0.1000	0.0005 -0.1000 0.1000
Coil 2 R	-0.0046 -0.2000 0.2000	-0.0018 -0.1000 0.1000	-0.0010 -0.1000 0.1000	-0.0016 -0.1000 0.1000	0.0025 -0.1000 0.1000	-0.0017 -0.1000 0.1000	0.0010 -0.1000 0.1000	-0.0001 -0.1000 0.1000
Coil 2 Q	-0.0050 -0.5000 0.5000	-0.0000 -0.2000 0.2000	-0.0027 -0.1000 0.1000	0.0009 -0.1000 0.1000	-0.0009 -0.1000 0.1000	0.0009 -0.1000 0.1000	-0.0013 -0.1000 0.1000	-0.0001 -0.1000 0.1000
Coil 3 R	-0.0054 -0.3000 0.3000	-0.0051 -0.1000 0.1000	0.0009 -0.1000 0.1000	-0.0007 -0.1000 0.1000	0.0014 -0.1000 0.1000	0.0021 -0.1000 0.1000	-0.0025 -0.1000 0.1000	0.0008 -0.1000 0.1000
Coil 3 Q	-0.0058 -0.5000 0.5000	0.0040 -0.2000 0.2000	0.0022 -0.1000 0.1000	-0.0004 -0.1000 0.1000	0.0007 -0.1000 0.1000	-0.0011 -0.1000 0.1000	0.0018 -0.1000 0.1000	0.0020 -0.1000 0.1000
Coil 4 R	-0.0786 -0.5000 0.5000	-0.0088 -0.2000 0.2000	0.0121 -0.2000 0.2000	-0.0062 -0.2000 0.2000	-0.0010 -0.2000 0.2000	-0.0002 -0.2000 0.2000	0.0031 -0.2000 0.2000	-0.0016 -0.2000 0.2000
Coil 4 Q	-0.0039 -1.0000 1.0000	0.0172 -0.4000 0.4000	-0.0129 -0.2000 0.2000	-0.0017 -0.2000 0.2000	0.0051 -0.2000 0.2000	-0.0061 -0.2000 0.2000	0.0018 -0.2000 0.2000	-0.0009 -0.2000 0.2000
Coil 5 R	-0.1360 -1.2000 1.2000	-0.0163 -0.4000 0.4000	0.0028 -0.4000 0.4000	0.0001 -0.4000 0.4000	0.0036 -0.4000 0.4000	0.0070 -0.4000 0.4000	-0.0046 -0.4000 0.4000	-0.0023 -0.4000 0.4000
Coil 5 Q	-0.0053 -1.5000 1.5000	0.0345 -0.8000 0.8000	-0.0019 -0.4000 0.4000	-0.0109 -0.4000 0.4000	0.0042 -0.4000 0.4000	0.0057 -0.4000 0.4000	-0.0020 -0.4000 0.4000	-0.0084 -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	160.76 136.00 188.00	159.34 134.00 184.00	156.45 131.00 181.00	152.14 128.00 176.00	146.45 122.00 170.00	139.46 118.00 161.00	131.19 112.00 150.00	121.79 105.00 139.00
Coil 0 P	7.489 6.000 9.000	25.330 21.000 30.000	42.614 35.000 50.000	59.839 49.000 71.000	77.054 63.000 91.000	94.283 77.000 109.000	111.510 92.000 130.000	128.681 106.000 151.000
Coil 1 M	279.91 238.00 328.00	277.51 235.00 325.00	272.60 230.00 320.00	265.22 225.00 312.00	255.45 218.00 302.00	243.29 208.00 288.00	228.76 196.00 266.00	212.03 184.00 244.00
Coil 1 P	7.858 6.000 9.000	26.256 21.000 30.000	44.153 35.000 51.000	62.018 49.000 71.000	79.916 63.000 92.000	97.870 78.000 112.000	115.867 93.000 130.000	133.873 107.000 151.000
Coil 2 M	573.70 479.00 659.00	567.61 474.00 654.00	555.42 463.00 643.00	537.58 450.00 622.00	514.52 432.00 602.00	486.89 412.00 572.00	455.06 390.00 540.00	419.58 359.00 499.00
Coil 2 P	8.067 6.000 9.000	26.778 21.000 31.000	44.951 35.000 51.000	63.011 49.000 71.000	80.994 63.000 92.000	98.924 76.000 115.000	116.779 92.000 135.000	134.534 105.000 155.000
Coil 3 M	936.84 772.00 1060.00	928.07 784.00 1050.00	910.19 752.00 1030.00	883.51 728.00 1010.00	848.61 700.00 970.00	805.86 665.00 925.00	755.84 628.00 868.00	699.18 589.00 799.00
Coil 3 P	7.965 6.000 10.000	26.509 21.000 30.000	44.545 35.000 51.000	62.519 49.000 72.000	80.463 63.000 93.000	98.406 76.000 114.000	116.343 90.000 135.000	134.218 104.000 156.000
Coil 4 M	1477.4 1210.0 1700.0	1463.4 1205.0 1690.0	1434.6 1180.0 1650.0	1391.9 1140.0 1590.0	1335.5 1120.0 1530.0	1266.3 1070.0 1450.0	1185.6 1000.0 1350.0	1095.1 942.0 1240.0
Coil 4 P	8.063 6.000 10.000	26.742 21.000 31.000	44.934 35.000 52.000	63.069 49.000 73.000	81.179 63.000 93.000	99.294 77.000 114.000	117.361 91.000 135.000	135.314 105.000 156.000
Coil 5 M	2974.9 2450.0 3450.0	2947.2 2420.0 3400.0	2889.7 2410.0 3320.0	2804.0 2350.0 3200.0	2690.6 2280.0 3080.0	2553.0 2150.0 2950.0	2391.4 2020.0 2750.0	2212.1 1870.0 2570.0

AM Factor	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
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CoII 0 R	<div><div>-705</div><div>-3200940</div></div>	<div><div>-571</div><div>-1400-20</div></div>	<div><div>-486</div><div>-930-150</div></div>	<div><div>-430</div><div>-760-180</div></div>	<div><div>-387</div><div>-660-130</div></div>	<div><div>-353</div><div>-600-120</div></div>	<div><div>-324</div><div>-550-110</div></div>	<div><div>-301</div><div>-520-92</div></div>
CoII 0 Q	<div><div>-134</div><div>-1500011000</div></div>	<div><div>-273</div><div>-58003800</div></div>	<div><div>-284</div><div>-37002100</div></div>	<div><div>-296</div><div>-27001400</div></div>	<div><div>-304</div><div>-22001000</div></div>	<div><div>-313</div><div>-1800790</div></div>	<div><div>-319</div><div>-1600620</div></div>	<div><div>-325</div><div>-1500490</div></div>
CoII 1 R	<div><div>-101</div><div>-750460</div></div>	<div><div>-135</div><div>-36083</div></div>	<div><div>-131</div><div>-2809</div></div>	<div><div>-123</div><div>-230-10</div></div>	<div><div>-115</div><div>-200-26</div></div>	<div><div>-107</div><div>-180-35</div></div>	<div><div>-99</div><div>-160-46</div></div>	<div><div>-94</div><div>-150-49</div></div>
CoII 1 Q	<div><div>-230</div><div>-33003300</div></div>	<div><div>-111</div><div>-1100980</div></div>	<div><div>-88</div><div>-630530</div></div>	<div><div>-83</div><div>-470380</div></div>	<div><div>-82</div><div>-380280</div></div>	<div><div>-81</div><div>-320190</div></div>	<div><div>-81</div><div>-290150</div></div>	<div><div>-79</div><div>-260120</div></div>
CoII 2 R	<div><div>8.5</div><div>-85.076.0</div></div>	<div><div>-26.3</div><div>-64.0-0.4</div></div>	<div><div>-30.9</div><div>-57.0-12.0</div></div>	<div><div>-29.5</div><div>-51.0-16.0</div></div>	<div><div>-28.2</div><div>-46.0-17.0</div></div>	<div><div>-26.4</div><div>-42.0-16.0</div></div>	<div><div>-24.2</div><div>-39.0-15.0</div></div>	<div><div>-23.2</div><div>-37.0-13.0</div></div>
CoII 2 Q	<div><div>261.9</div><div>-1500.01900.0</div></div>	<div><div>89.1</div><div>-500.0610.0</div></div>	<div><div>52.3</div><div>-290.0350.0</div></div>	<div><div>35.3</div><div>-220.0280.0</div></div>	<div><div>25.9</div><div>-160.0190.0</div></div>	<div><div>21.2</div><div>-140.0160.0</div></div>	<div><div>18.0</div><div>-110.0130.0</div></div>	<div><div>17.3</div><div>-99.0120.0</div></div>
CoII 3 R	<div><div>-0.3</div><div>-23.021.0</div></div>	<div><div>-8.4</div><div>-22.01.6</div></div>	<div><div>-9.3</div><div>-21.0-1.3</div></div>	<div><div>-9.4</div><div>-20.0-1.8</div></div>	<div><div>-8.6</div><div>-19.0-2.0</div></div>	<div><div>-8.1</div><div>-19.0-1.3</div></div>	<div><div>-7.3</div><div>-19.0-0.8</div></div>	<div><div>-7.1</div><div>-19.0-0.0</div></div>
CoII 3 Q	<div><div>132.3</div><div>-540.0530.0</div></div>	<div><div>47.8</div><div>-180.0180.0</div></div>	<div><div>31.5</div><div>-100.0110.0</div></div>	<div><div>25.8</div><div>-71.081.0</div></div>	<div><div>23.6</div><div>-51.066.0</div></div>	<div><div>23.0</div><div>-37.058.0</div></div>	<div><div>24.0</div><div>-28.053.0</div></div>	<div><div>25.2</div><div>-21.051.0</div></div>
CoII 4 R	<div><div>0.43</div><div>-18.0013.00</div></div>	<div><div>-4.61</div><div>-12.002.70</div></div>	<div><div>-4.54</div><div>-11.001.50</div></div>	<div><div>-4.02</div><div>-9.800.52</div></div>	<div><div>-3.88</div><div>-9.900.96</div></div>	<div><div>-3.65</div><div>-10.001.50</div></div>	<div><div>-3.31</div><div>-11.002.30</div></div>	<div><div>-3.69</div><div>-11.002.60</div></div>
CoII 4 Q	<div><div>28.74</div><div>-250.00280.00</div></div>	<div><div>11.37</div><div>-79.0098.00</div></div>	<div><div>10.67</div><div>-43.0064.00</div></div>	<div><div>11.77</div><div>-27.0051.00</div></div>	<div><div>13.72</div><div>-18.0048.00</div></div>	<div><div>16.35</div><div>-11.0042.00</div></div>	<div><div>18.78</div><div>-5.5042.00</div></div>	<div><div>22.20</div><div>-1.0042.00</div></div>
CoII 5 R	<div><div>-4.12</div><div>-56.0051.00</div></div>	<div><div>-2.43</div><div>-8.403.60</div></div>	<div><div>-1.87</div><div>-6.901.10</div></div>	<div><div>-2.05</div><div>-6.901.20</div></div>	<div><div>-1.96</div><div>-9.302.90</div></div>	<div><div>-1.96</div><div>-14.006.30</div></div>	<div><div>-1.92</div><div>-19.009.60</div></div>	<div><div>-2.20</div><div>-24.0013.00</div></div>
CoII 5 Q	<div><div>6.48</div><div>-88.0069.00</div></div>	<div><div>4.69</div><div>-26.0027.00</div></div>	<div><div>6.14</div><div>-14.0022.00</div></div>	<div><div>8.39</div><div>-7.0022.00</div></div>	<div><div>10.97</div><div>-2.5024.00</div></div>	<div><div>13.32</div><div>1.1026.00</div></div>	<div><div>16.16</div><div>4.1029.00</div></div>	<div><div>18.86</div><div>7.1032.00</div></div>

MM Factor	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
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CoII 0 M	<div><div>0.973</div><div>0.8501.100</div></div>	<div><div>0.983</div><div>0.8601.100</div></div>	<div><div>0.988</div><div>0.8701.100</div></div>	<div><div>0.990</div><div>0.8801.100</div></div>	<div><div>0.991</div><div>0.8801.100</div></div>	<div><div>0.990</div><div>0.8801.100</div></div>	<div><div>0.989</div><div>0.8801.100</div></div>	<div><div>0.988</div><div>0.8801.100</div></div>
CoII 0 P	<div><div>-0.445</div><div>-1.5001.500</div></div>	<div><div>-0.650</div><div>-1.5001.500</div></div>	<div><div>-0.538</div><div>-1.5001.500</div></div>	<div><div>-0.408</div><div>-1.5001.500</div></div>	<div><div>-0.324</div><div>-1.5001.500</div></div>	<div><div>-0.259</div><div>-1.5001.500</div></div>	<div><div>-0.197</div><div>-1.5001.500</div></div>	<div><div>-0.156</div><div>-1.5001.500</div></div>
CoII 1 M	<div><div>0.965</div><div>0.8501.100</div></div>	<div><div>0.975</div><div>0.8601.100</div></div>	<div><div>0.980</div><div>0.8701.100</div></div>	<div><div>0.982</div><div>0.8801.100</div></div>	<div><div>0.982</div><div>0.8801.100</div></div>	<div><div>0.982</div><div>0.8801.100</div></div>	<div><div>0.981</div><div>0.8801.100</div></div>	<div><div>0.979</div><div>0.8801.100</div></div>
CoII 1 P	<div><div>-0.410</div><div>-1.5001.500</div></div>	<div><div>-0.643</div><div>-1.5001.500</div></div>	<div><div>-0.524</div><div>-1.5001.500</div></div>	<div><div>-0.398</div><div>-1.5001.500</div></div>	<div><div>-0.301</div><div>-1.5001.500</div></div>	<div><div>-0.232</div><div>-1.5001.500</div></div>	<div><div>-0.188</div><div>-1.5001.500</div></div>	<div><div>-0.147</div><div>-1.5001.500</div></div>
CoII 2 M	<div><div>0.985</div><div>0.8901.100</div></div>	<div><div>0.986</div><div>0.8901.100</div></div>	<div><div>0.986</div><div>0.8901.100</div></div>	<div><div>0.986</div><div>0.8901.100</div></div>	<div><div>0.986</div><div>0.8901.100</div></div>	<div><div>0.986</div><div>0.8901.100</div></div>	<div><div>0.985</div><div>0.8901.100</div></div>	<div><div>0.984</div><div>0.8901.100</div></div>
CoII 2 P	<div><div>-0.034</div><div>-1.5001.500</div></div>	<div><div>-0.088</div><div>-1.5001.500</div></div>	<div><div>-0.106</div><div>-1.5001.500</div></div>	<div><div>-0.110</div><div>-1.5001.500</div></div>	<div><div>-0.117</div><div>-1.5001.500</div></div>	<div><div>-0.113</div><div>-1.5001.500</div></div>	<div><div>-0.099</div><div>-1.5001.500</div></div>	<div><div>-0.109</div><div>-1.5001.500</div></div>
CoII 3 M	<div><div>0.998</div><div>0.9001.100</div></div>	<div><div>0.999</div><div>0.9001.100</div></div>	<div><div>0.999</div><div>0.9001.100</div></div>	<div><div>0.999</div><div>0.9001.100</div></div>	<div><div>0.999</div><div>0.9001.100</div></div>	<div><div>0.999</div><div>0.9001.100</div></div>	<div><div>0.999</div><div>0.9001.100</div></div>	<div><div>0.998</div><div>0.9001.100</div></div>
CoII 3 P	<div><div>-0.018</div><div>-1.5001.500</div></div>	<div><div>-0.065</div><div>-1.5001.500</div></div>	<div><div>-0.084</div><div>-1.5001.500</div></div>	<div><div>-0.076</div><div>-1.5001.500</div></div>	<div><div>-0.089</div><div>-1.5001.500</div></div>	<div><div>-0.064</div><div>-1.5001.500</div></div>	<div><div>-0.028</div><div>-1.5001.500</div></div>	<div><div>-0.027</div><div>-1.5001.500</div></div>
CoII 4 M	<div><div>0.997</div><div>0.9001.100</div></div>	<div><div>0.998</div><div>0.9001.100</div></div>	<div><div>0.999</div><div>0.9001.100</div></div>	<div><div>0.999</div><div>0.9001.100</div></div>	<div><div>1.000</div><div>0.9001.100</div></div>	<div><div>0.999</div><div>0.9001.100</div></div>	<div><div>0.998</div><div>0.9001.100</div></div>	<div><div>0.999</div><div>0.9001.100</div></div>
CoII 4 P	<div><div>-0.024</div><div>-1.5001.500</div></div>	<div><div>-0.080</div><div>-1.5001.500</div></div>	<div><div>-0.103</div><div>-1.5001.500</div></div>	<div><div>-0.080</div><div>-1.5001.500</div></div>	<div><div>-0.050</div><div>-1.5001.500</div></div>	<div><div>-0.047</div><div>-1.5001.500</div></div>	<div><div>0.009</div><div>-1.5001.500</div></div>	<div><div>-0.003</div><div>-1.5001.500</div></div>
CoII 5 M	<div><div>0.991</div><div>0.9001.100</div></div>	<div><div>0.992</div><div>0.9001.100</div></div>	<div><div>0.993</div><div>0.9001.100</div></div>	<div><div>0.993</div><div>0.9001.100</div></div>	<div><div>0.995</div><div>0.9001.100</div></div>	<div><div>0.995</div><div>0.9001.100</div></div>	<div><div>0.996</div><div>0.9001.100</div></div>	<div><div>0.996</div><div>0.9001.100</div></div>
CoII 5 P	<div><div>-0.054</div><div>-1.5001.500</div></div>	<div><div>-0.111</div><div>-1.5001.500</div></div>	<div><div>-0.148</div><div>-1.5001.500</div></div>	<div><div>-0.162</div><div>-1.5001.500</div></div>	<div><div>-0.131</div><div>-1.5001.500</div></div>	<div><div>-0.064</div><div>-1.5001.500</div></div>	<div><div>-0.071</div><div>-1.5001.500</div></div>	<div><div>-0.082</div><div>-1.5001.500</div></div>

PARMS

TCID 0

TCID 1

Cal Temp

T Factor

(degC)

IDs

2.689

0.725

19.0

1.00

HDIL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1530XA 10132721

DATE/TIME PERFORMED: Wed Nov 25 12:49:50 2009

DAYS SINCE CAL: 97

UNIT #: 3880TA HL6555

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	0.003 -0.200 0.200	0.000 -0.100 0.100	-0.000 -0.100 0.100	0.001 -0.100 0.100	-0.001 -0.100 0.100	0.000 -0.100 0.100	0.001 -0.100 0.100	0.000 -0.100 0.100
Coil 0 Q	-0.003 -0.500 0.500	-0.001 -0.200 0.200	-0.001 -0.100 0.100	-0.000 -0.100 0.100	0.000 -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	-0.006 -0.200 0.200	0.000 -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	-0.001 -0.100 0.100	0.001 -0.100 0.100
Coil 1 Q	-0.010 -0.500 0.500	0.000 -0.200 0.200	-0.000 -0.100 0.100	0.001 -0.100 0.100	-0.001 -0.100 0.100	0.000 -0.100 0.100	-0.000 -0.100 0.100	0.001 -0.100 0.100
Coil 2 R	0.001 -0.200 0.200	-0.004 -0.100 0.100	0.000 -0.100 0.100	0.000 -0.100 0.100	0.004 -0.100 0.100	-0.002 -0.100 0.100	0.002 -0.100 0.100	-0.001 -0.100 0.100
Coil 2 Q	-0.009 -0.500 0.500	0.000 -0.200 0.200	0.000 -0.100 0.100	-0.003 -0.100 0.100	0.000 -0.100 0.100	0.001 -0.100 0.100	0.001 -0.100 0.100	-0.000 -0.100 0.100
Coil 3 R	0.001 -0.300 0.300	-0.004 -0.100 0.100	0.003 -0.100 0.100	-0.003 -0.100 0.100	-0.003 -0.100 0.100	0.001 -0.100 0.100	0.001 -0.100 0.100	-0.001 -0.100 0.100
Coil 3 Q	-0.009 -0.500 0.500	0.000 -0.200 0.200	0.004 -0.100 0.100	-0.001 -0.100 0.100	-0.002 -0.100 0.100	-0.003 -0.100 0.100	-0.004 -0.100 0.100	-0.003 -0.100 0.100
Coil 4 R	-0.043 -0.500 0.500	-0.008 -0.200 0.200	0.003 -0.200 0.200	-0.009 -0.200 0.200	-0.000 -0.200 0.200	-0.001 -0.200 0.200	0.007 -0.200 0.200	-0.006 -0.200 0.200
Coil 4 Q	-0.011 -1.000 1.000	0.013 -0.400 0.400	0.002 -0.200 0.200	-0.000 -0.200 0.200	0.008 -0.200 0.200	-0.008 -0.200 0.200	0.003 -0.200 0.200	0.004 -0.200 0.200
Coil 5 R	-0.095 -1.200 1.200	-0.022 -0.400 0.400	-0.007 -0.400 0.400	-0.001 -0.400 0.400	-0.000 -0.400 0.400	0.001 -0.400 0.400	-0.003 -0.400 0.400	0.006 -0.400 0.400
Coil 5 Q	-0.025 -1.500 1.500	0.021 -0.800 0.800	-0.007 -0.400 0.400	-0.008 -0.400 0.400	-0.010 -0.400 0.400	0.006 -0.400 0.400	-0.009 -0.400 0.400	-0.002 -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	160.78 136.00 188.00	159.36 134.00 184.00	156.49 131.00 181.00	152.19 126.00 178.00	146.54 122.00 170.00	139.51 118.00 181.00	131.26 112.00 150.00	121.83 105.00 139.00
Coil 0 P	7.503 -1.000 12.000	25.336 19.000 30.000	42.625 35.000 50.000	59.855 49.000 71.000	77.071 63.000 91.000	94.316 77.000 110.000	111.534 92.000 130.000	128.712 105.000 151.000
Coil 1 M	279.85 237.00 327.00	277.43 235.00 325.00	272.56 230.00 320.00	265.20 225.00 312.00	255.44 218.00 302.00	243.35 208.00 288.00	228.80 196.00 268.00	212.07 184.00 244.00
Coil 1 P	7.895 -1.000 12.000	26.271 19.000 30.000	44.168 35.000 51.000	62.040 49.000 71.000	79.931 63.000 92.000	97.891 77.000 112.000	115.902 92.000 132.000	133.903 105.000 153.000
Coil 2 M	574.21 479.00 859.00	568.08 474.00 854.00	555.92 463.00 843.00	538.10 450.00 822.00	515.11 432.00 802.00	487.48 412.00 572.00	455.61 390.00 540.00	419.98 359.00 499.00
Coil 2 P	8.099 -1.000 12.000	26.789 19.000 31.000	44.960 35.000 51.000	63.022 49.000 71.000	81.007 63.000 92.000	98.933 77.000 114.000	116.797 92.000 135.000	134.539 105.000 156.000
Coil 3 M	937.25 772.00 1060.00	928.40 784.00 1050.00	910.58 752.00 1030.00	883.97 728.00 1010.00	849.18 700.00 970.00	806.45 665.00 925.00	756.30 628.00 868.00	699.50 589.00 799.00

Coil 3 P	7.989	26.522	44.558	62.532	80.482	98.434	116.369	134.255
	-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	1479.0	1464.8	1436.3	1393.4	1337.2	1267.9	1187.2	1096.8
	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	8.073	26.747	44.941	63.083	81.195	99.308	117.397	135.325
	-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	2978.2	2950.4	2893.2	2807.5	2695.2	2556.8	2395.6	2214.7
	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	8.144	26.905	45.207	63.449	81.673	99.870	118.032	136.090
	-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 10132721 DATE/TIME PERFORMED: Wed Nov 25 15:37:59 2009 DAYS SINCE CAL: 98

UNIT #: 3880TA HL6555

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	0.003	-0.000	0.001	0.000	0.000	-0.000	-0.001	-0.001
	-0.077 0.083	-0.060 0.060	-0.030 0.030	-0.029 0.031	-0.031 0.029	-0.030 0.030	-0.029 0.031	-0.030 0.030
Coil 0 Q	-0.003	-0.001	-0.000	-0.000	0.001	-0.000	-0.000	0.000
	-0.043 0.037	-0.121 0.119	-0.031 0.029	-0.030 0.030	-0.030 0.030	-0.029 0.031	-0.030 0.030	-0.029 0.031
Coil 1 R	-0.008	0.001	0.002	0.000	0.000	-0.001	0.000	0.001
	-0.086 0.074	-0.050 0.050	-0.031 0.029	-0.030 0.030	-0.031 0.029	-0.030 0.030	-0.031 0.029	-0.029 0.031
Coil 1 Q	-0.010	0.000	-0.002	-0.001	0.000	0.001	0.000	0.001
	-0.410 0.390	-0.100 0.100	-0.030 0.030	-0.029 0.031	-0.031 0.029	-0.030 0.030	-0.030 0.030	-0.029 0.031
Coil 2 R	-0.001	0.002	0.000	0.002	0.002	-0.001	0.000	-0.000
	-0.089 0.071	-0.034 0.026	-0.030 0.030	-0.030 0.030	-0.028 0.034	-0.032 0.028	-0.028 0.032	-0.031 0.029
Coil 2 Q	-0.010	0.001	0.000	-0.001	-0.000	0.001	0.000	-0.000
	-0.359 0.341	-0.100 0.100	-0.030 0.030	-0.033 0.027	-0.030 0.030	-0.029 0.031	-0.029 0.031	-0.030 0.030
Coil 3 R	-0.001	-0.009	0.003	0.003	-0.002	-0.001	0.001	0.001
	-0.039 0.041	-0.044 0.036	-0.037 0.043	-0.043 0.037	-0.043 0.037	-0.039 0.041	-0.039 0.041	-0.041 0.039
Coil 3 Q	-0.012	0.002	-0.002	0.000	-0.003	-0.001	0.002	-0.003
	-0.209 0.191	-0.080 0.080	-0.036 0.044	-0.041 0.039	-0.042 0.038	-0.043 0.037	-0.044 0.036	-0.043 0.037
Coil 4 R	-0.058	-0.008	0.013	-0.005	0.002	0.005	-0.003	0.001
	-0.103 0.017	-0.068 0.052	-0.057 0.063	-0.069 0.051	-0.060 0.060	-0.061 0.059	-0.053 0.067	-0.066 0.054
Coil 4 Q	-0.023	0.010	0.003	-0.001	0.005	0.002	0.001	0.001
	-0.311 0.289	-0.087 0.113	-0.058 0.062	-0.060 0.060	-0.052 0.068	-0.068 0.052	-0.057 0.063	-0.056 0.064
Coil 5 R	-0.122	-0.031	-0.002	0.000	-0.001	0.006	0.012	0.004
	-0.215 0.025	-0.142 0.098	-0.127 0.113	-0.121 0.119	-0.120 0.120	-0.119 0.121	-0.123 0.117	-0.114 0.126
Coil 5 Q	-0.024	0.018	-0.002	-0.012	-0.003	-0.002	-0.003	-0.001
	-0.625 0.575	-0.229 0.271	-0.127 0.113	-0.128 0.112	-0.130 0.110	-0.114 0.126	-0.129 0.111	-0.122 0.118

ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	160.76	159.34	156.46	152.12	146.47	139.44	131.23	121.79
	157.56 163.99	156.17 162.55	153.36 159.62	149.15 155.24	143.61 149.47	136.72 142.30	128.63 133.88	119.40 124.27
Coil 0 P	7.496	25.335	42.625	59.853	77.071	94.284	111.528	128.695
	4.503 10.503	22.336 28.336	39.625 45.625	56.855 62.855	74.071 80.071	91.316 97.316	108.534 114.534	125.712 131.712
Coil 1 M	279.87	277.46	272.57	265.16	255.39	243.22	228.79	211.98
	274.25 285.44	271.68 282.98	267.11 278.01	259.89 270.50	250.33 260.55	238.49 248.22	224.23 233.38	207.83 216.31
Coil 1 P	7.889	26.272	44.171	62.036	79.938	97.876	115.895	133.882
	4.895 10.895	23.271 29.271	41.168 47.168	59.040 65.040	76.931 82.931	94.891 100.891	112.902 118.902	130.903 136.903
Coil 2 M	574.09	567.96	555.75	537.84	514.89	487.07	455.46	419.90

	562.73	585.69	556.72	579.44	544.80	567.04	527.34	548.86	504.81	525.41	477.73	497.23	446.49	464.72	411.58	428.38
Coil 2 P	8.095	26.792	44.964	63.020	81.018	98.922	116.792	134.546								
	5.099	11.099	23.789	29.789	41.980	47.960	60.022	66.022	78.007	84.007	95.933	101.933	113.797	119.797	131.539	137.539
Coil 3 M	937.11	928.31	910.40	883.67	848.87	805.79	755.93	699.17								
	918.51	956.00	909.83	946.97	892.37	928.79	886.29	901.85	832.20	866.16	790.32	822.58	741.17	771.43	685.51	713.49
Coil 3 P	7.984	26.519	44.561	62.537	80.485	98.428	116.364	134.252								
	4.989	10.989	23.522	29.522	41.558	47.558	59.532	65.532	77.482	83.482	95.434	101.434	113.369	119.369	131.255	137.255
Coil 4 M	1478.3	1464.2	1435.5	1392.5	1336.1	1266.9	1186.3	1095.9								
	1449.4	1508.6	1435.5	1494.1	1407.5	1465.0	1365.5	1421.2	1310.5	1364.0	1242.6	1293.3	1163.5	1211.0	1074.9	1118.7
Coil 4 P	8.067	26.747	44.940	63.083	81.194	99.293	117.354	135.328								
	5.073	11.073	23.747	29.747	41.941	47.941	60.083	66.083	78.195	84.195	96.308	102.308	114.397	120.397	132.325	138.325
Coil 5 M	2976.8	2949.1	2891.5	2805.4	2693.1	2553.4	2394.7	2212.6								
	2918.6	3037.8	2891.4	3009.4	2835.3	2951.1	2751.4	2863.7	2641.3	2749.2	2505.7	2607.9	2347.7	2443.5	2170.4	2259.0
Coil 5 P	8.140	26.907	45.213	63.449	81.670	99.863	118.061	136.091								
	5.144	11.144	23.905	29.905	42.207	48.207	60.449	66.449	78.673	84.673	96.870	102.870	115.032	121.032	133.090	139.090

 Baker Atlas 	COMPANY <u>VULCAN MINERALS INC.</u> WELL <u>VULCAN INVESTCAN RED BROOK #2</u> FIELD <u>BAY ST.GEORGE BASIN</u> PROVINCE <u>NEWFOUNDLAND AND LABRADOR</u>		FILE NO: API NO:
	LOCATION: BH LOC. LSD: LAT <u>48.2679591667</u> LONG <u>-58.7501141667</u>	ELEVATIONS: KB <u>63.4 M</u> DF GL <u>57.1 M</u> DATE <u>25-NOV-2009</u>	UID: <u>N/A</u> LICENSE: <u>ADW 2009-116-03-</u>