



FILE NO:	COMPANY	HUSKY OIL OPERATIONS LIMITED
API NO:	WELL	LITTLE BEAR H-64
	FIELD	SLATER RIVER
	PROVINCE	NORTHWEST TERRITORIES
Ver. 3.87	LOCATION:	OTHER SERVICES
UID:	SURF LOC:	ZXL-CR-CAL
300H6500126000	LAT 64 53' 28.5"N LONG 126 11' 20.3"W	CYL, XMAC-GR, DSL
LICENSE:	BH LOC, LSD:	FLEX-DSL, WEX
482	LAT 64 53' 28.5"N LONG 126 11' 20.3"W	EI-CRIL-GR, CBL
		DIRSUR
PERMANENT DATUM	G.L.	ELEVATION
LOG MEASURED FROM	K.B.	178.0 M
DRILL MEAS. FROM	5.2 M	ABOVE P.D.
	KELLY BUSHING	
		ELEVATIONS:
		KB 183.2 M
		DF
		GL 178.0 M

DATE	06-MAR-2012			
RUN	TRIP	1	1	
SERVICE ORDER	CA212311			
DEPTH DRILLER	1341.0 M			
DEPTH LOGGER	1340.2 M			
BOTTOM LOGGED INTERVAL	1334.6 M			
TOP LOGGED INTERVAL	510.0 M			
CASING DRILLER	244.5 MM	510.0 M		0
CASING LOGGER	510.0 M			
BIT SIZE	222.0 MM			
TYPE OF FLUID IN HOLE	INVERT			
DENSITY	VISCOSITY	1240.0 G/L	47.0 S	
PH	FLUID LOSS	NA	NA	
SOURCE OF SAMPLE	NO SAMPLE			
RM AT MEAS. TEMP.	NA		0 NA	0
RMF AT MEAS. TEMP.	NA		0 NA	0
RMC AT MEAS. TEMP.	NA		0 NA	0
SOURCE OF RMF	RMC	NO SAMPLE	NO SAMPLE	
RM AT BHT	NA		0 NA	0
TIME SINCE CIRCULATION	8.0 HOURS			
MAX. RECORDED TEMP.	53.2 DEGC			
EQUIP. NO.	LOCATION	Z008672	OH CANADA	
RECORDED BY	J. COLLIER/D. DOUCETT			
WITNESSED BY	H. PARENHOYEN			

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
311.0 MM	0.0 M	510.0 M
222.0 MM	510.0 M	1341.0 M

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
244.5 MM	53.6 KG/M	NA	0.0 M	510.0 M

REMARKS

RUN 1 TRIP 1: TIME STOPPED CIRCULATION: 06-MAR-2012 02:30 PM

BOREHOLE AND TEMPERATURE CORRECTIONS HAVE BEEN APPLIED TO HDIL DATA. HDIL RECORDED WITH AND CORRECTED TO 38.0 MM STANDOFF.

CALIPER PRESENTED WITH HDIL TO ASSIST WITH THE QC OF THE DATA.

RIG: NABORS 23

CREW: J. COLLIER, D. DOUCETT, D. KIRWAN, D. SCHNEIDER, N. WOODRIDGE, P. ARENBURG

EQUIPMENT DATA			
RUN	TRIP	TOOL	POSITION

ADN	ADN	NAME	TYPE	TYPE	TYPE	POSITION
1	1	SWIVEL	3844XD	11908288		FREE
1	1	DHPA	4430KB	12111382		FREE
1	1	TTRM SUB	3881XB	11780038		FREE
1	1	COMM	3514XC	12079085		FREE
1	1	WTS DGR/SU	1329XB	11758874		FREE
1	1	CN	2448XA	12088884		DECENTRALIZED
1	1	ZDEN	2234XA	168004		PAD_DEVICE
1	1	WTS DBL KNJ	3938XA	10293200		FREE
1	1	ORT	4401XB	Z168978		FREE
1	1	ACOUSTIC EL	1677EA	12045829		CENTRALIZED
1	1	XMAC RX MDR	1678MC	12002082		CENTRALIZED
1	1	XMAC ISO	1678PB	12083102		FREE
1	1	XMAC TX ELC	1678BA	12083108		CENTRALIZED
1	1	XMAC TX ELC	1678FA	12111386		CENTRALIZED
1	1	HDIL ELONS	1515EA	12032417		STANDOFF
1	1	HDIL MANDRL	1515MA	11897988		STANDOFF
1	1	SWIVEL	3844XD	11848138		FREE
1	1	DHPA	4430KB	12088588		FREE
1	1	TTRM SUB	3881XA	Z173348		FREE
1	1	COMM	3514XB	Z186132		FREE
1	1	WTS DGR/SU	1329XB	Z179402		FREE
1	1	CN	2448XA	12088881		DECENTRALIZED
1	1	ZDEN	2234XA	Z172840		PAD_DEVICE
1	1	WTS DBL KNJ	3938XA	167184		FREE
1	1	ORT	4401XB	12039483		FREE
1	1	ACOUSTIC EL	1677EA	11861895		CENTRALIZED
1	1	XMAC RX MDR	1678MC	12138283		CENTRALIZED
1	1	XMAC ISO	1678PB	11870839		FREE
1	1	XMAC TX ELC	1678BA	12103884		CENTRALIZED
1	1	XMAC TX ELC	1678FA	12111385		CENTRALIZED
1	1	HDIL ELONS	1515EA	11898830		STANDOFF
1	1	HDIL MANDRL	1515MA	12022611		STANDOFF
1	1	CENTRALIZER	4341XA	Z173381		CENTRALIZED

INSTRUMENT CONFIGURATION

Source File: /data/hunky_CA212311/run1-fdg

CABLEHEAD

Diameter : 8.8 cm
Length : 187.8 cm
Weight : 10.8 kg
Series : QASL338
Monomia : CBLH
Measure Points : 83.8 cm: CABLEHEAD TOP

SWIVEL

Diameter : 8.8 cm
Length : 108.7 cm
Weight : 30.8 kg
Series : 3844XD

DECENTRAL POWER ADAPTER

Diameter : 9.2 cm
Length : 180.7 cm
Weight : 38.1 kg
Series : 4430KB
Monomia : DHPA

TTRM SUB

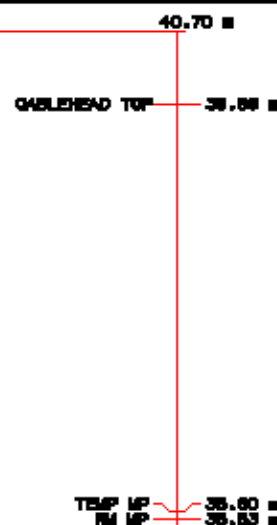
Diameter : 9.2 cm
Length : 118.8 cm
Weight : 28.2 kg
Series : 3881XA
Monomia : TTRM
Measure Points : 42.2 cm: TEMP MP

WTS COMMON REMOTE

Diameter : 9.2 cm
Length : 184.0 cm
Weight : 38.2 kg
Series : 3514XC
Monomia : WTS

DIGITAL SPECTRALOG

Diameter : 9.2 cm



Length : 222.8 cm
Weight : 55.1 kg
Series : 1328KA
Insonia : ZDL
Measure Points : 48.8 cm: OR MP

COMPENSATED NEUTRON

Diameter : 9.3 cm
Length : 431.4 cm
Weight : 85.2 kg
Series : 2448KA
Insonia : CN
Measure Points : 80.3 cm: LSN MP
Measure Points : 88.2 cm: SSN MP

Z-DENRILLO

Diameter : 12.4 cm
Length : 341.9 cm
Weight : 183.8 kg
Series : 2238KA
Insonia : ZDL
Measure Points : 87.3 cm: CAL MP
Measure Points : 78.4 cm: LSO MP
Measure Points : 83.2 cm: SSO MP

KNUCKLE JOINT (DOUBLE)

Diameter : 8.8 cm
Length : 141.8 cm
Weight : 40.8 kg
Series : 3838KA
Insonia : KJUT

DIGITAL ORIENTATION

Diameter : 8.8 cm
Length : 329.4 cm
Weight : 50.0 kg
Series : 4401KB
Insonia : ORIT
Measure Points : 0.0 cm: ORIENT MP

ARRAY ACOUSTILLOZ ELECTRONICS, 8 CHANNEL

Diameter : 8.8 cm
Length : 238.3 cm
Weight : 46.4 kg
Series : 1877EA
Insonia : KMAC

CROSS MULTIPOLE ARRAY ACOUSTILLOZ

Diameter : 9.8 cm
Length : 332.4 cm
Weight : 101.8 kg
Series : 1878AC
Insonia : KMPT
Measure Points : 187.8 cm: R8
Measure Points : 182.4 cm: R7
Measure Points : 137.2 cm: R6
Measure Points : 121.9 cm: R5
Measure Points : 108.7 cm: R4
Measure Points : 81.4 cm: R3
Measure Points : 78.2 cm: R2
Measure Points : 61.0 cm: R1

SHEAR WAVE ACOUSTILLOZ

Diameter : 9.2 cm
Length : 188.4 cm
Weight : 81.4 kg
Series : 1878PB
Insonia : KMAC

MULTI-POLE ARRAY ACOUSTIC

Diameter : 9.8 cm
Length : 241.3 cm
Weight : 77.3 kg
Series : 1878BA
Insonia : KMAC
Measure Points : 188.8 cm: QUADRUPOLE T5
Measure Points : 180.8 cm: MONOPOLE T2
Measure Points : 142.2 cm: Y-DIPOLE T4
Measure Points : 142.2 cm: X-DIPOLE T3
Measure Points : 88.9 cm: MONOPOLE T1

MULTI-POLE ARRAY ACOUSTIC

Diameter : 9.8 cm

OR MP : 31.80 m

LSN MP : 28.80 m

SSN MP : 28.36 m

CAL MP : 28.25 m

LSO MP : 28.04 m

SSO MP : 28.81 m

ORIENT MP : 20.87 m

R8 : 18.54 m

R7 : 18.36 m

R6 : 18.28 m

R5 : 18.23 m

R4 : 18.27 m

R3 : 18.62 m

R2 : 18.47 m

MONOPOLE T2 : 12.88 m

QUADRUPOLE T5 : 12.88 m

X-DIPOLE T3 : 12.38 m

Y-DIPOLE T4 : 12.38 m

MONOPOLE T1 : 11.82 m

Diameter : 8.6 cm
 Length : 131.0 cm
 Weight : 35.4 kg
 Series : 1878KA
 Monsonia : 184

HIGH DEFINITION INDUCTION TOOL

Diameter : 9.2 cm
 Length : 827.0 cm
 Weight : 189.8 kg
 Series : 1818KA
 Monsonia : 181L
 Measure Point: 423.8 cm: SP MP
 Measure Point: 226.8 cm: KMTR MP

4 ARM SPIRAL SPRING CENTRALIZER

Diameter : 8.6 cm
 Length : 128.8 cm
 Weight : 32.7 kg
 Series : 4341KA
 Monsonia : CENT

BALL PLUG 3 3/8

TOTAL LENGTH: 40.70 m
 TOTAL WEIGHT: 1100.5 kg
 MAX DIAMETER: 12.4 cm



MAIN LOG - UPPER PRESENTATION

ECLIPS 6.11 Aug 08, 2010
 Updates: 1 Patches: 1

Wed Mar 7 01:47:35 2012

Perpllt /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.51

PARAMETER AND FILTER SUMMARY REPORT

File: /data/husky_CA212311/m77evh_xc03.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 487.566 m BOTTOM DEPTH: 1340.829 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
Y AXIS CALIPER	FILTER ()	medium (1)		TOP	BOTTOM
TENSION	FILTER ()	medium (1)		"	"
GR	FILTER ()	medium (1)		"	"
CALIPER	FILTER ()	medium (1)		"	"
	FILTER (.h)	medium (1)		"	"
	FILTER (.l)	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
BIT SIZE	BIT SIZE	222.000	mm	TOP	BOTTOM
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		''	''
BOREHOLE CORR DIAMETER	FIXED DIAMETER (mbh*)	222.000	mm	''	''
BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	OIL BASE MUD		''	''

HDIL PROCESSING

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

CURVE DESCRIPTION REPORT

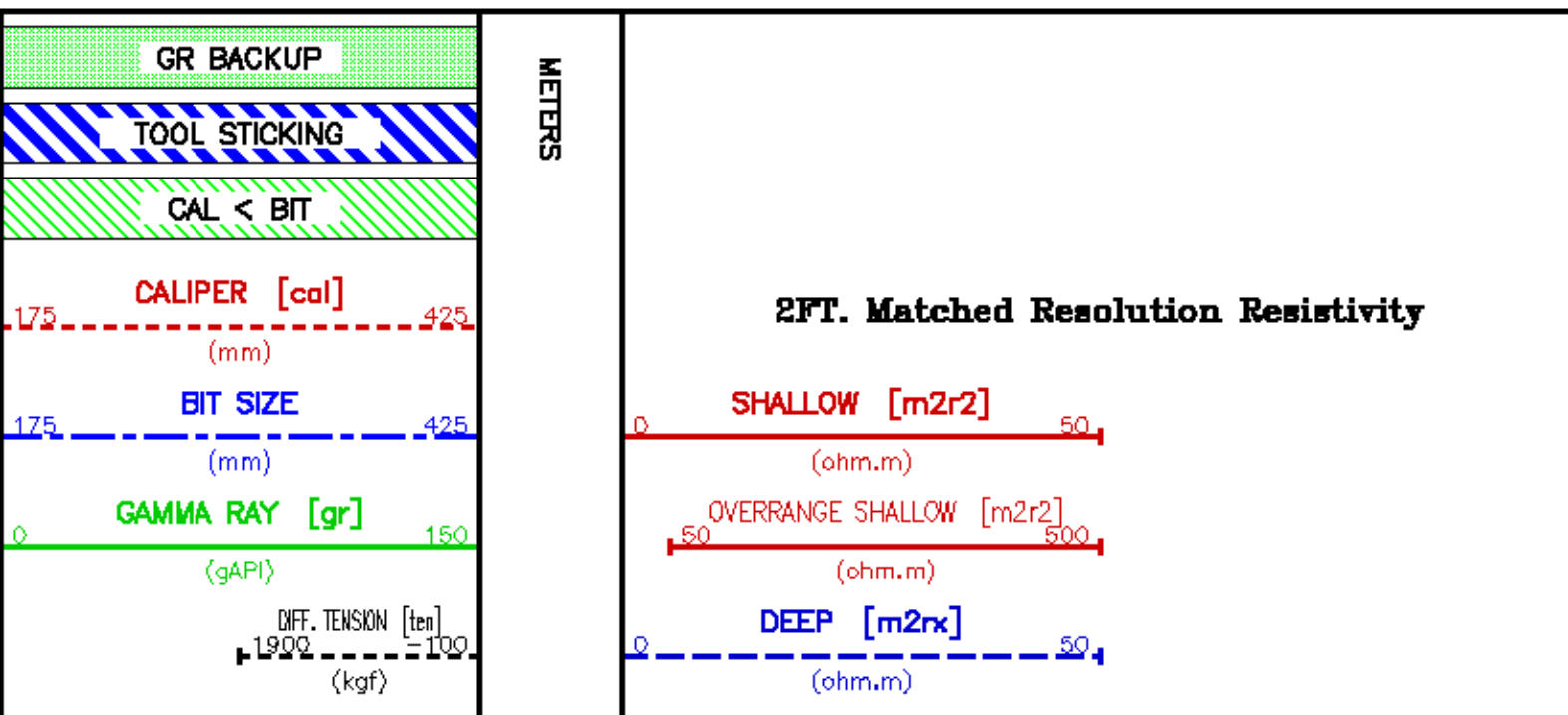
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F1:CAL	Mar 6 22:18:03 2012	CALIPER	
F1:GR	Mar 6 22:18:03 2012	GAMMA RAY	
F1:M2CCX	Mar 6 22:18:03 2012	HDIL 2-FOOT RESOLUTION COMPRESSED CONDUCTIVITY, 120-INCH DOI	
F1:M2R2	Mar 6 22:18:03 2012	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 20-INCH DOI	
F1:M2RX	Mar 6 22:18:03 2012	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 120-INCH DOI	
F1:MMRK	Mar 6 22:18:03 2012	MINUTE MARK	
F1:TEN	Mar 6 22:18:03 2012	DIFFERENTIAL TENSION	
F1:WTBH	Mar 6 22:18:03 2012	TEMPERATURE OF BOREHOLE	

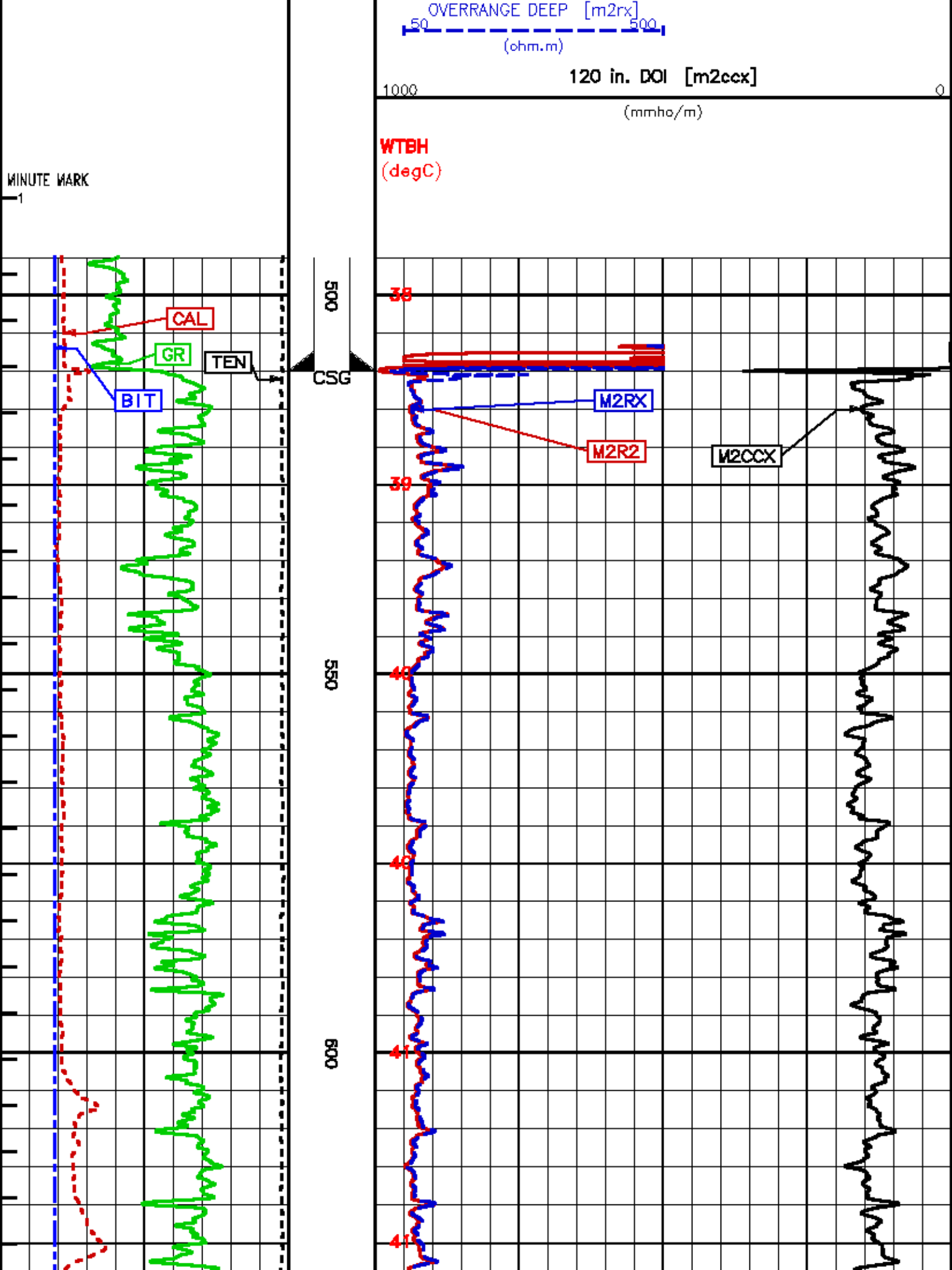
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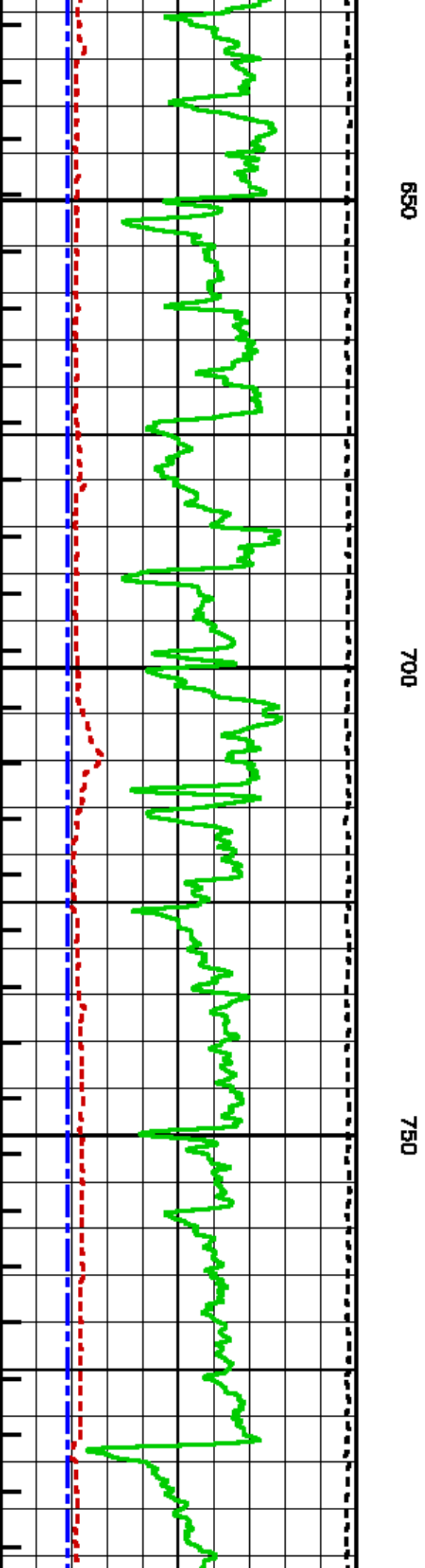
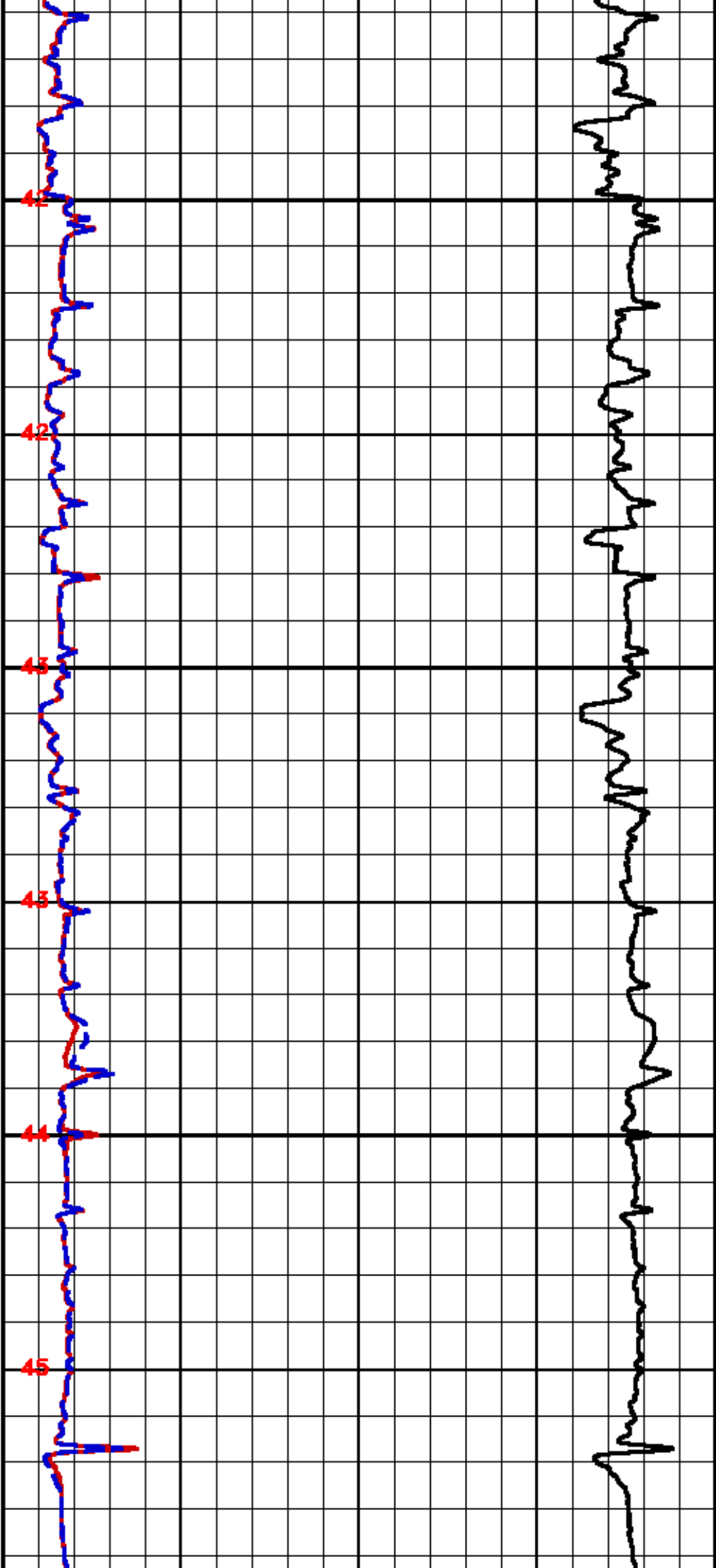
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CAL	26.06	M2CCX	3.66	M2RX	3.66		

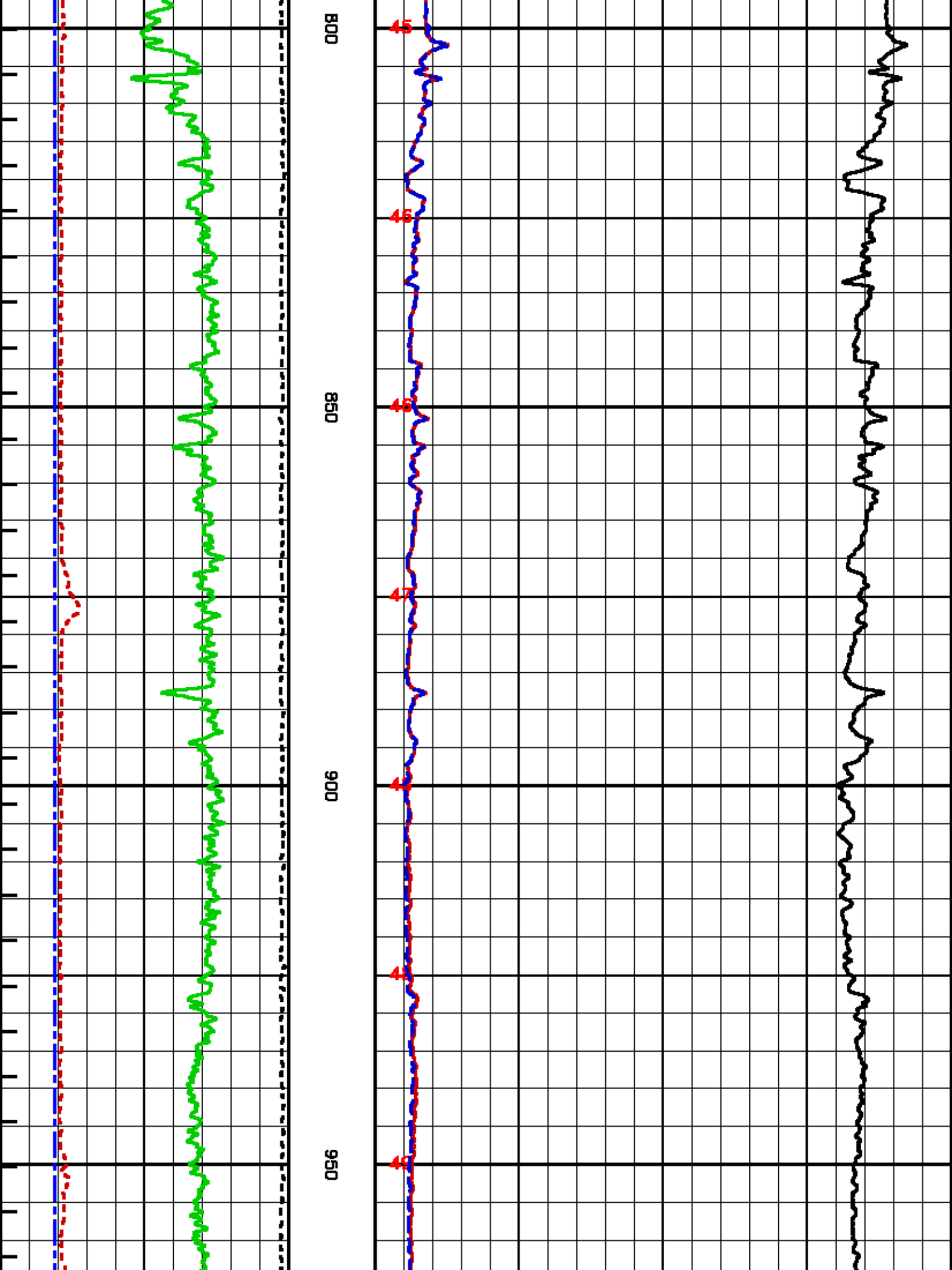
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Plot Interval : 495 - 1345 Meters

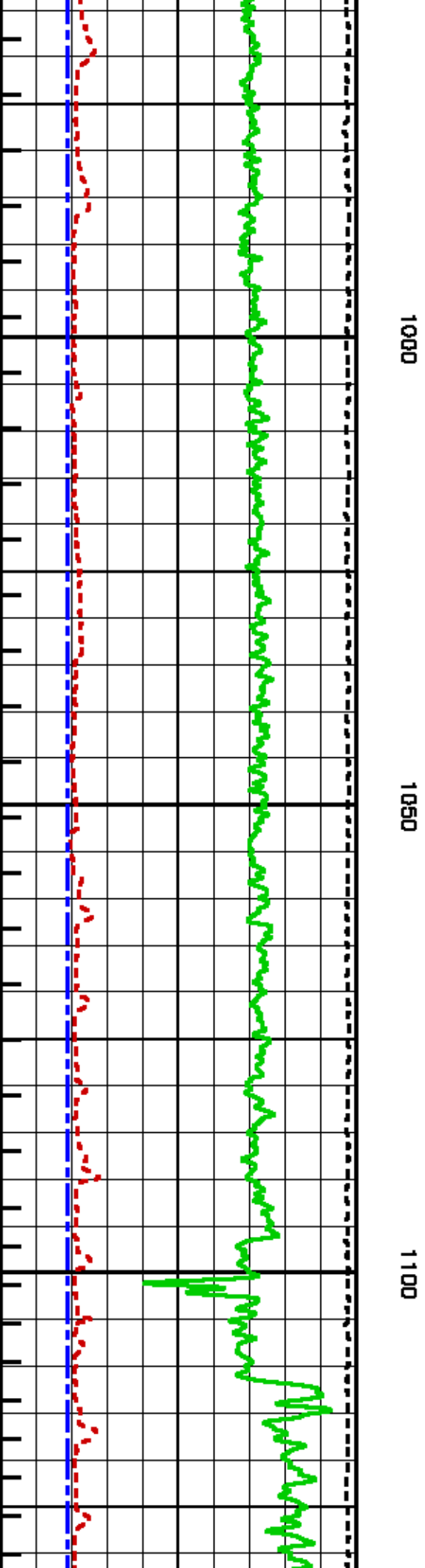
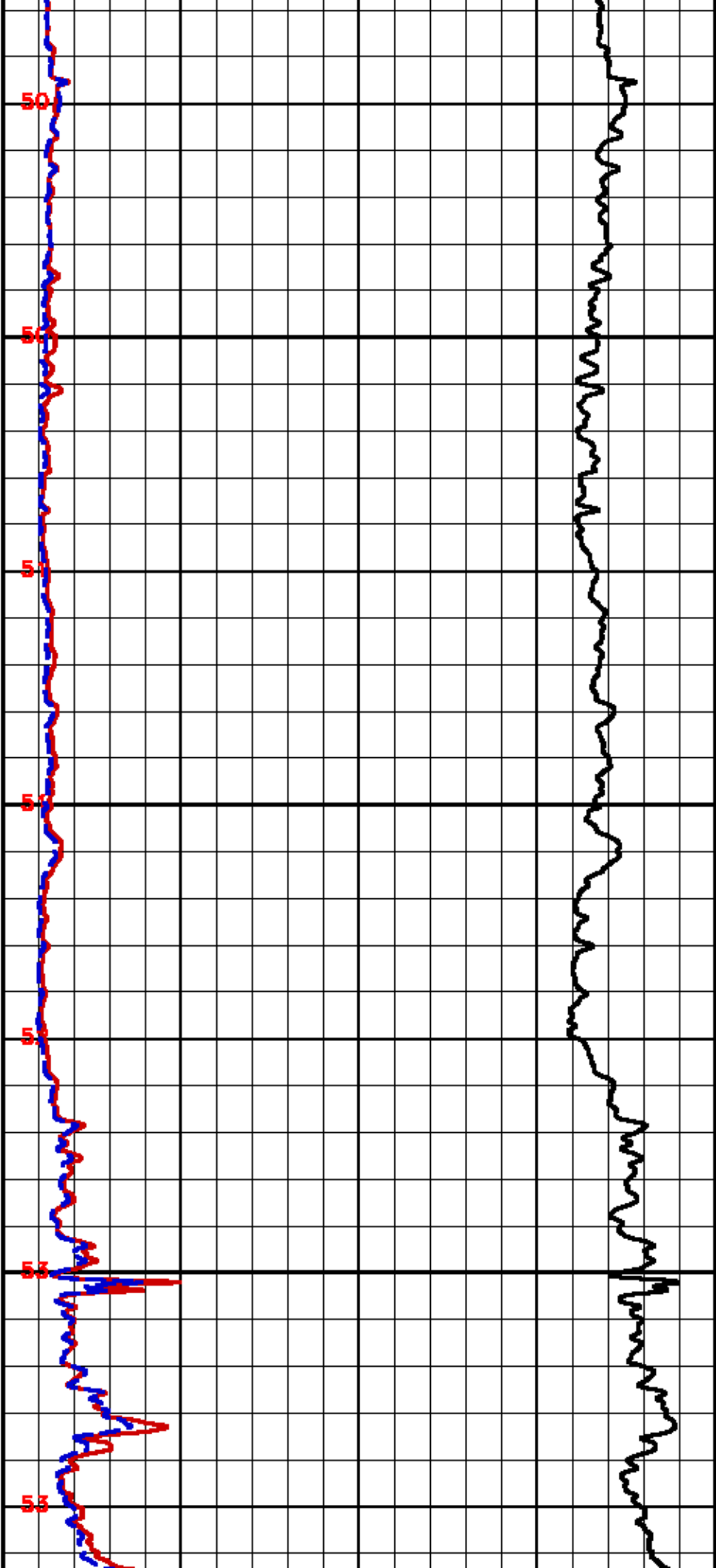
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Company : HUSKY OIL OPERATIONS LIMITED
Well : LITTLE BEAR H-64
Field : SLATER RIVER
File Interval : 452.247 - 1340.95 Meters
Out : m77wrh_x

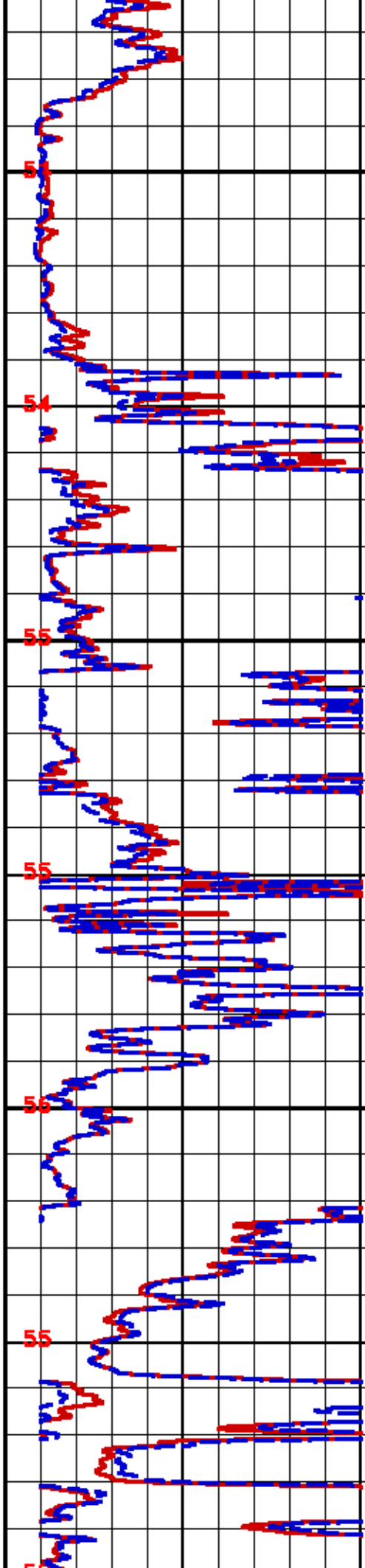
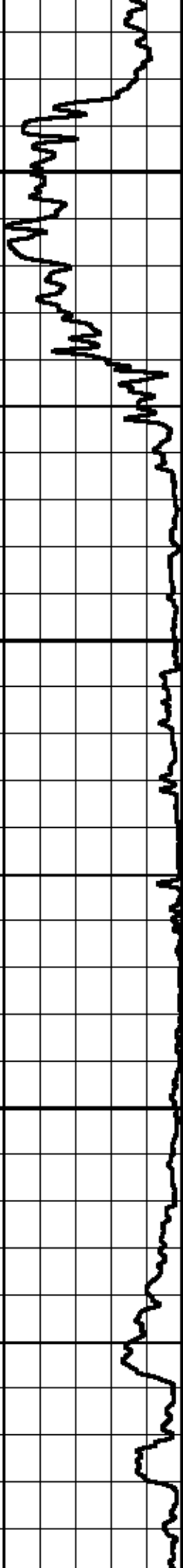










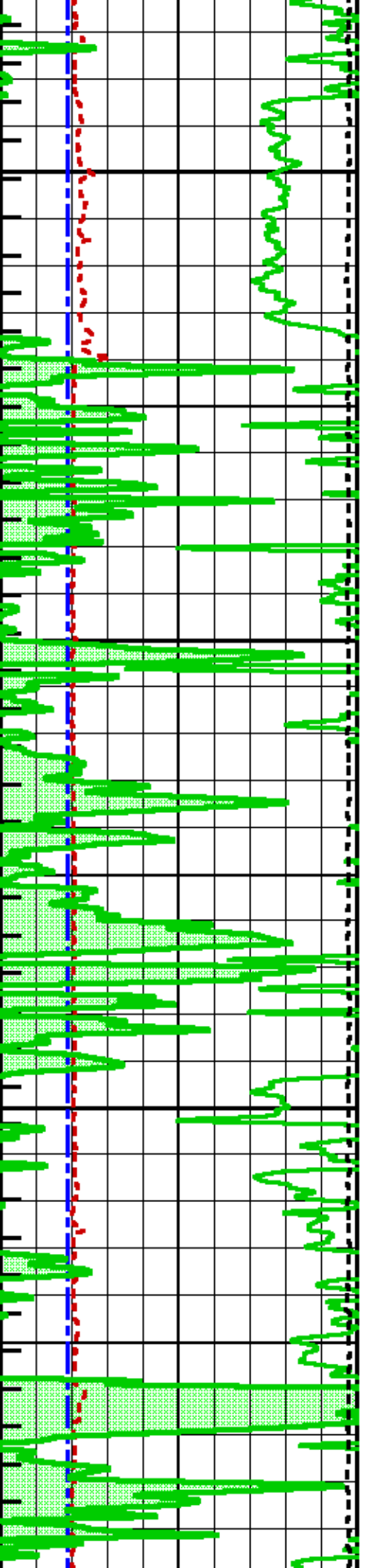


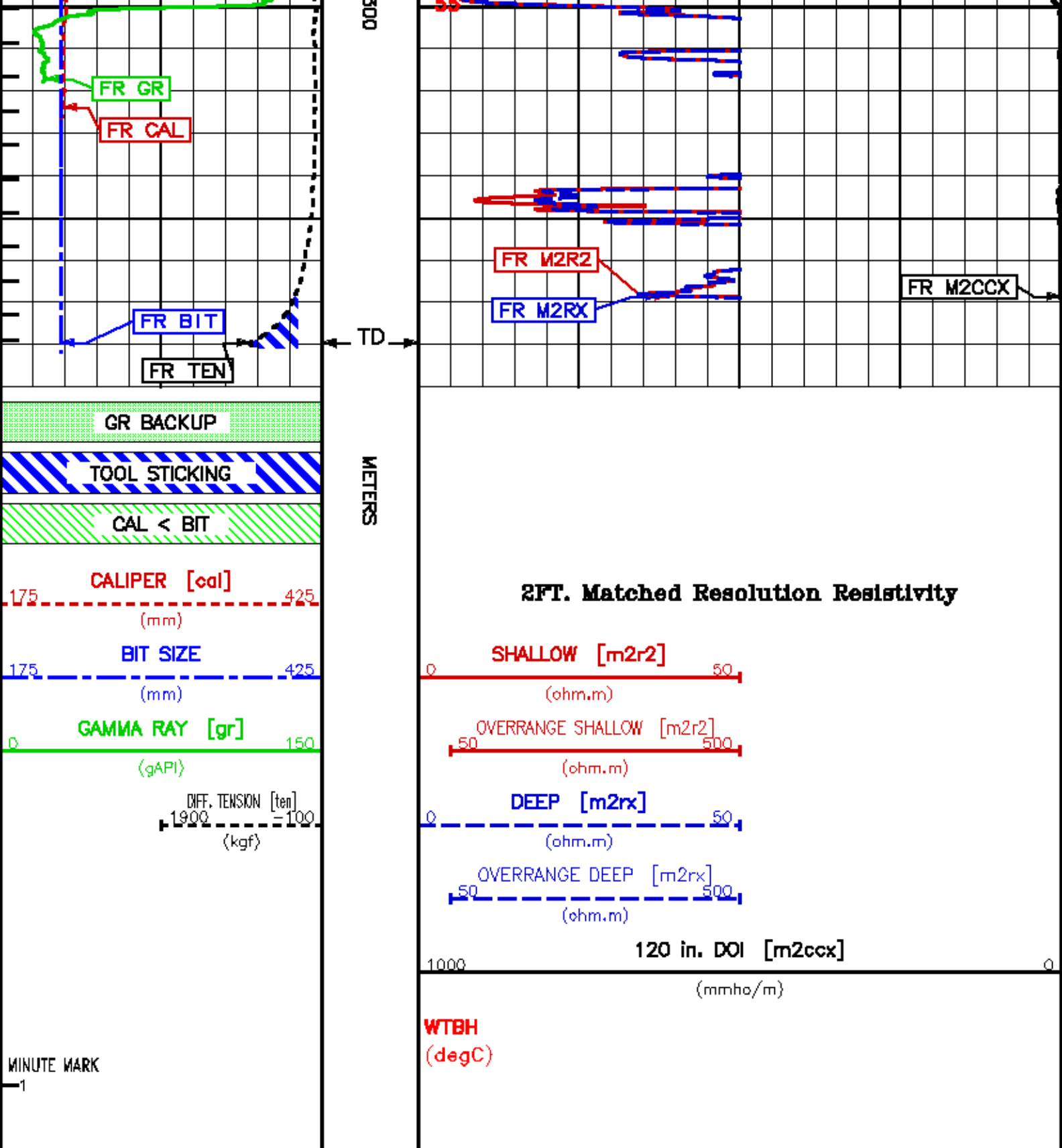
1150

1200

1250

1300





MAIN LOG

PARAMETER AND FILTER SUMMARY REPORT

File: /data/husky_CA212311/m77evh_xo03.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 437.566 m BOTTOM DEPTH: 1340.829 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
Y AXIS CALIPER	FILTER ()	medium (1)		TOP	BOTTOM
TENSION	FILTER ()	medium (1)		"	"
GR	FILTER ()	medium (1)		"	"
CALIPER	FILTER ()	medium (1)		"	"
	FILTER (.h)	medium (1)		"	"
	FILTER (.1)	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
BIT SIZE	BIT SIZE	222.000	mm	TOP	BOTTOM
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (mbh*)	222.000	mm	"	"
BH MUD RESISTIVITY SOURCE	RMD SOURCE (HDIL)	OIL BASE MUD		"	"

HDIL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
HDIL TEMPERATURE CORRECTION	TEMP CORR SOURCE	USE RCTEMP		TOP	BOTTOM
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		"	"
	ABC to CALCULATE	STANDOFF		"	"
	STANDOFF	38.10	mm	"	"
	TOOL POSITION	ECCENTRICED		"	"
	Rmd MULTIPLIER	1.000		"	"

CURVE DESCRIPTION REPORT

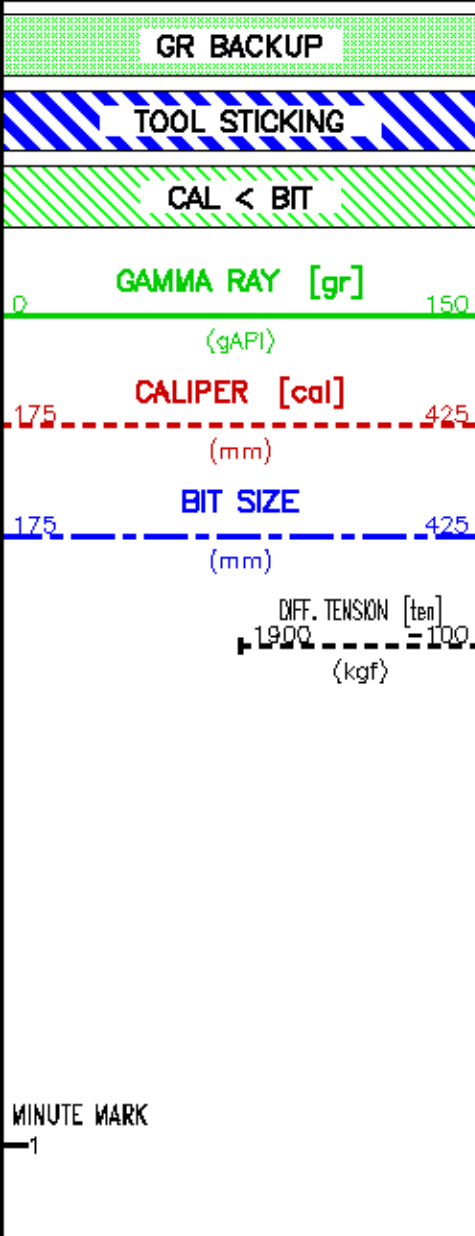
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F1:CAL	Mar 8 22:18:03 2012	CALIPER
F1:GR	Mar 8 22:18:03 2012	GAMMA RAY
F1:M2R1	Mar 8 22:18:03 2012	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 10-INCH DOI
F1:M2R2	Mar 8 22:18:03 2012	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 20-INCH DOI
F1:M2R3	Mar 8 22:18:03 2012	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 30-INCH DOI
F1:M2R6	Mar 8 22:18:03 2012	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 60-INCH DOI
F1:M2R9	Mar 8 22:18:03 2012	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 90-INCH DOI
F1:M2RX	Mar 8 22:18:03 2012	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 120-INCH DOI
F1:MARK	Mar 8 22:18:03 2012	MINUTE MARK
F1:TEN	Mar 8 22:18:03 2012	DIFFERENTIAL TENSION
F1:WTBH	Mar 8 22:18:03 2012	TEMPERATURE OF BOREHOLE

CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	M2R1	3.86	M2R6	3.86	TEN	0.00
CAL	26.06	M2R2	3.86	M2R9	3.86		
GR	31.39	M2R3	3.86	M2RX	3.86		

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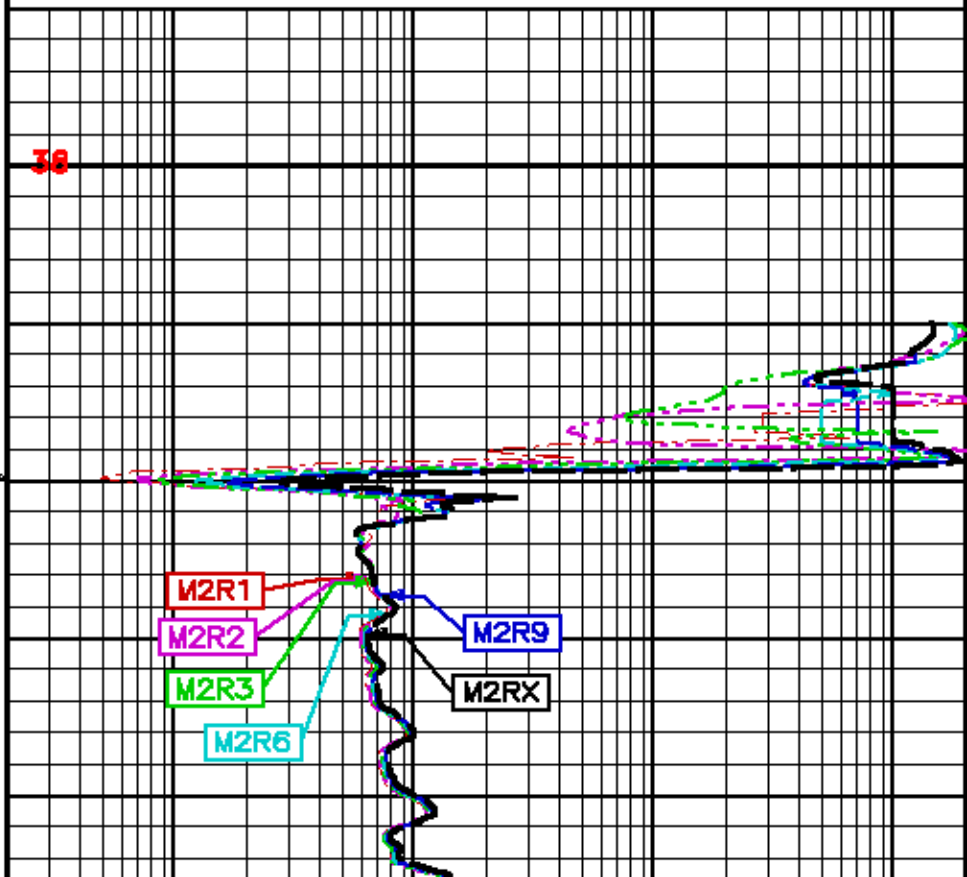
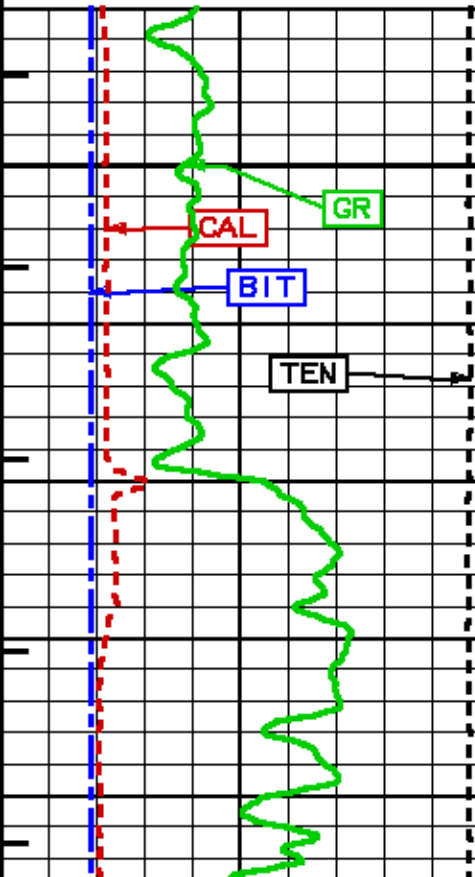
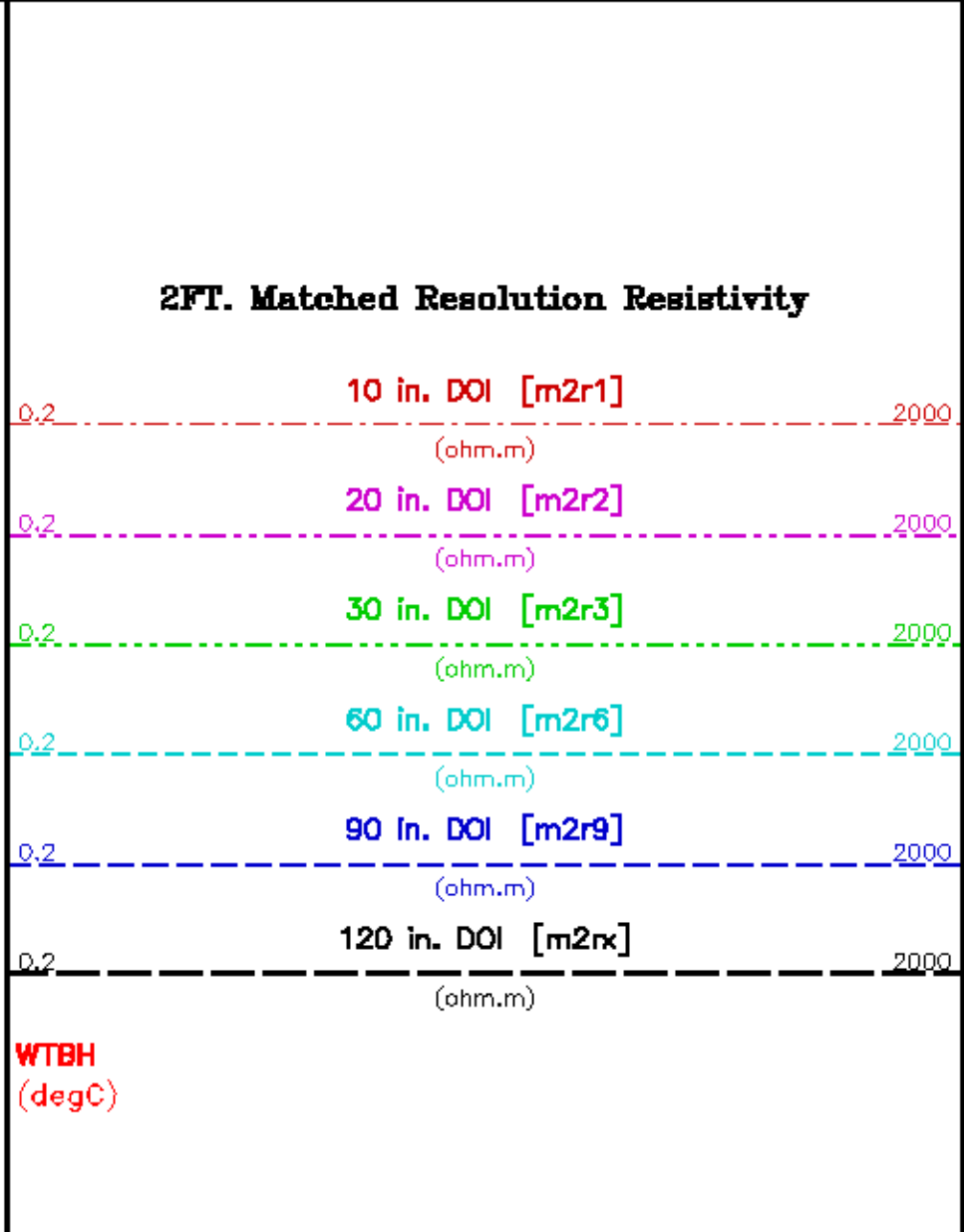
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 Company : HUSKY OIL OPERATIONS LIMITED
 Well : LITTLE BEAR H-64
 Field : SLATER RIVER
 File Interval : 432.247 - 1340.95 Meters
 Out : m77evh_x

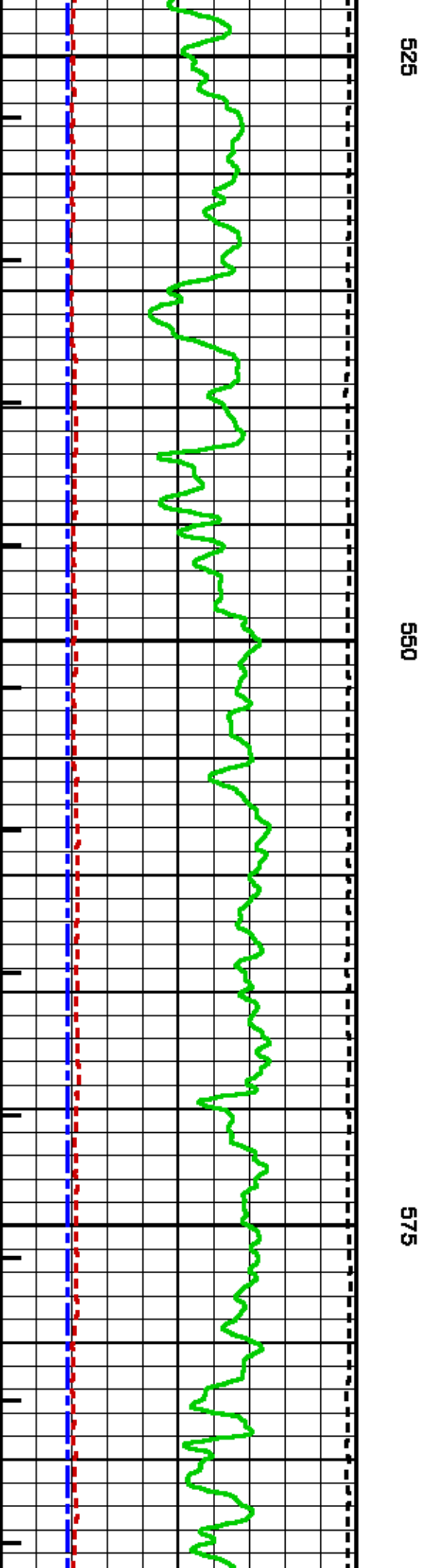
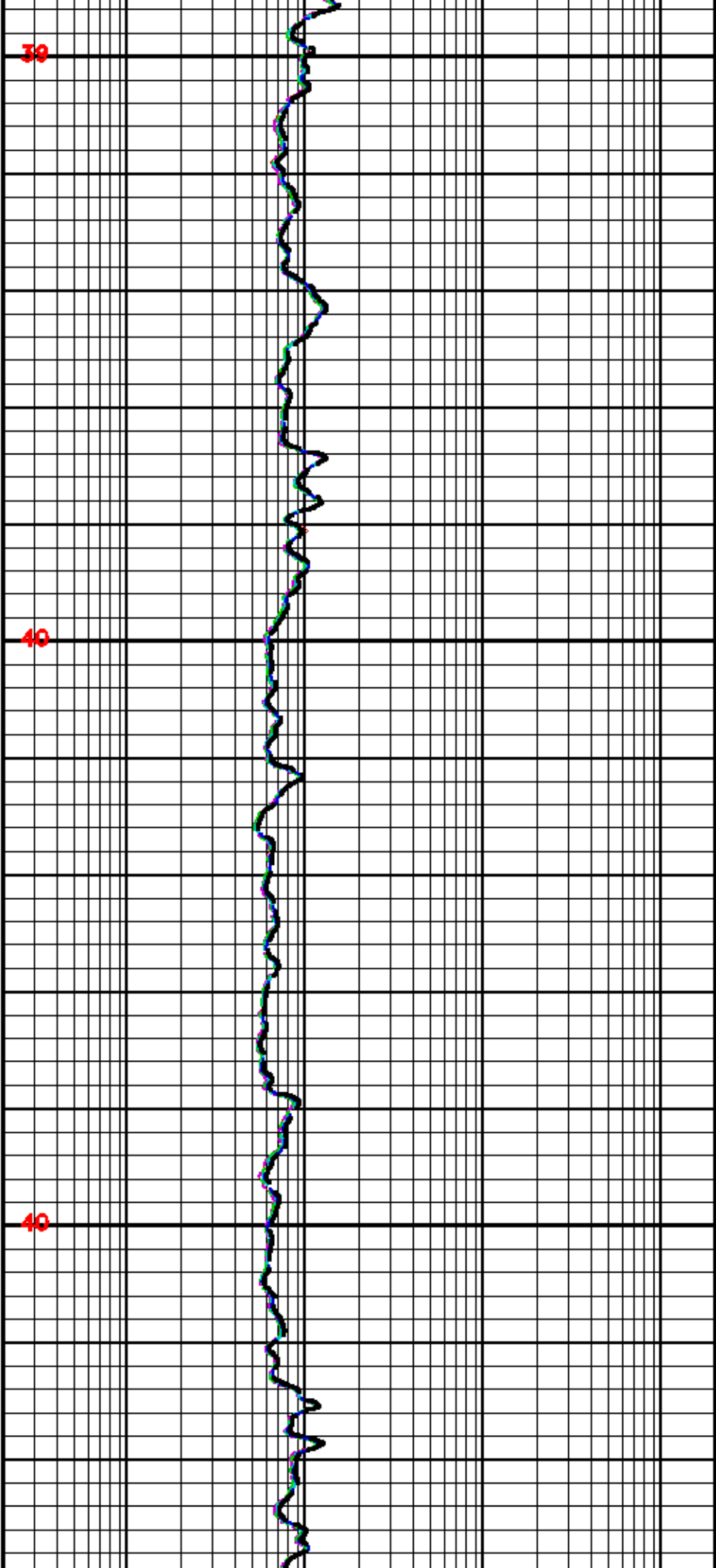


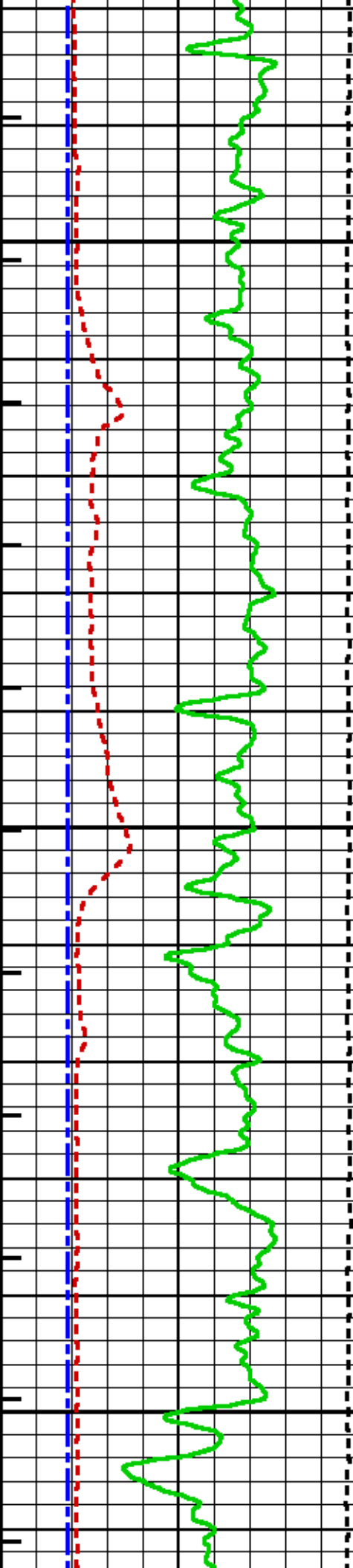
METERS

500

CSG



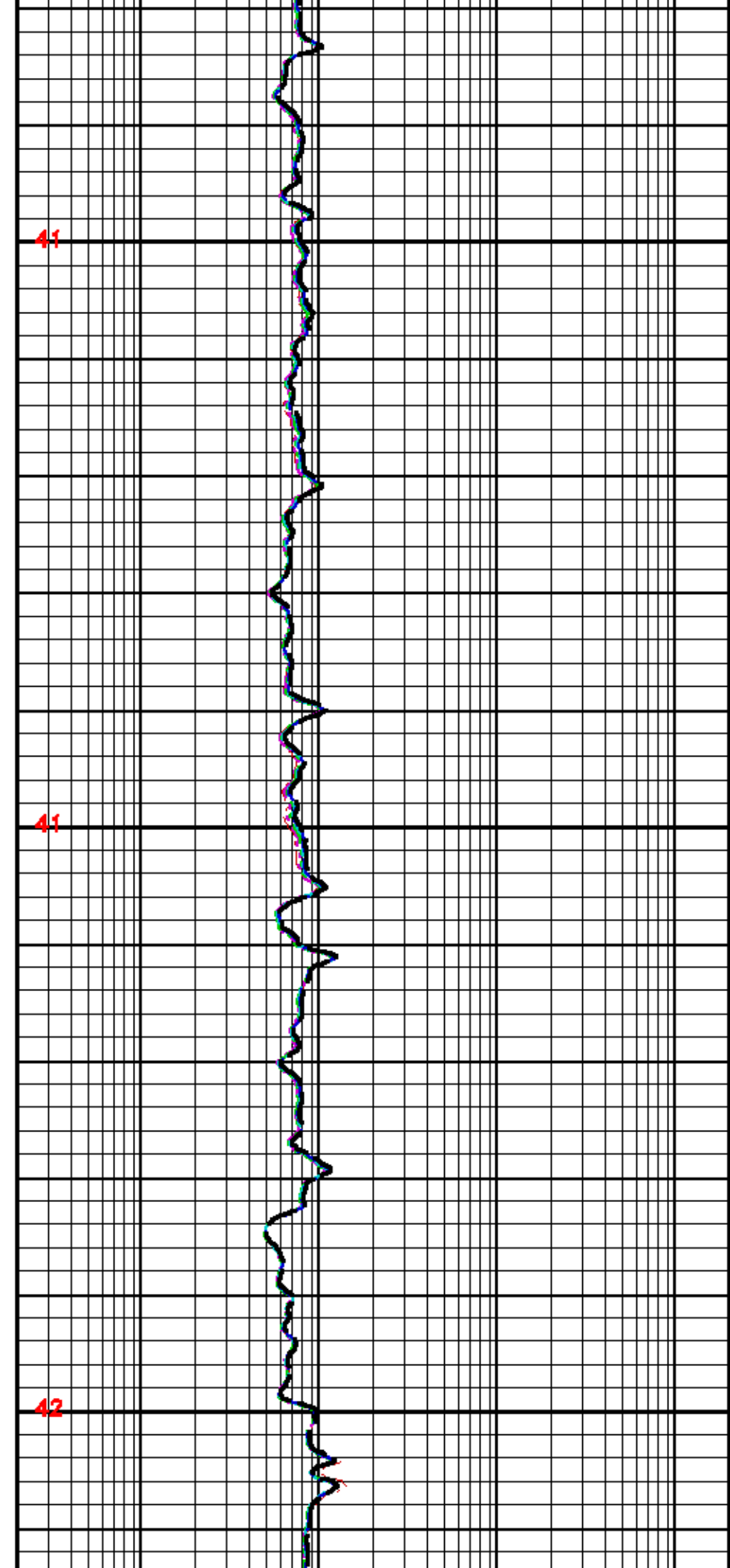




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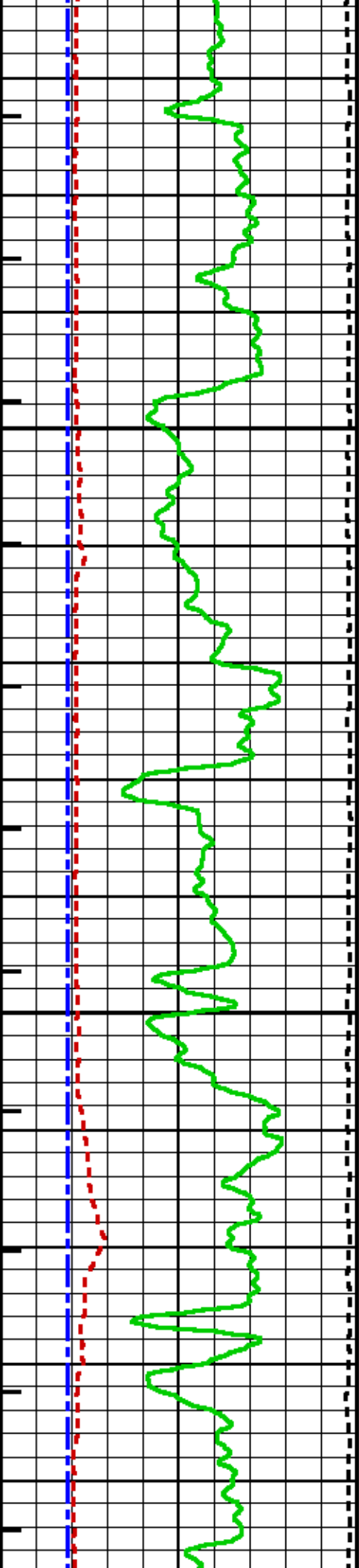
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41

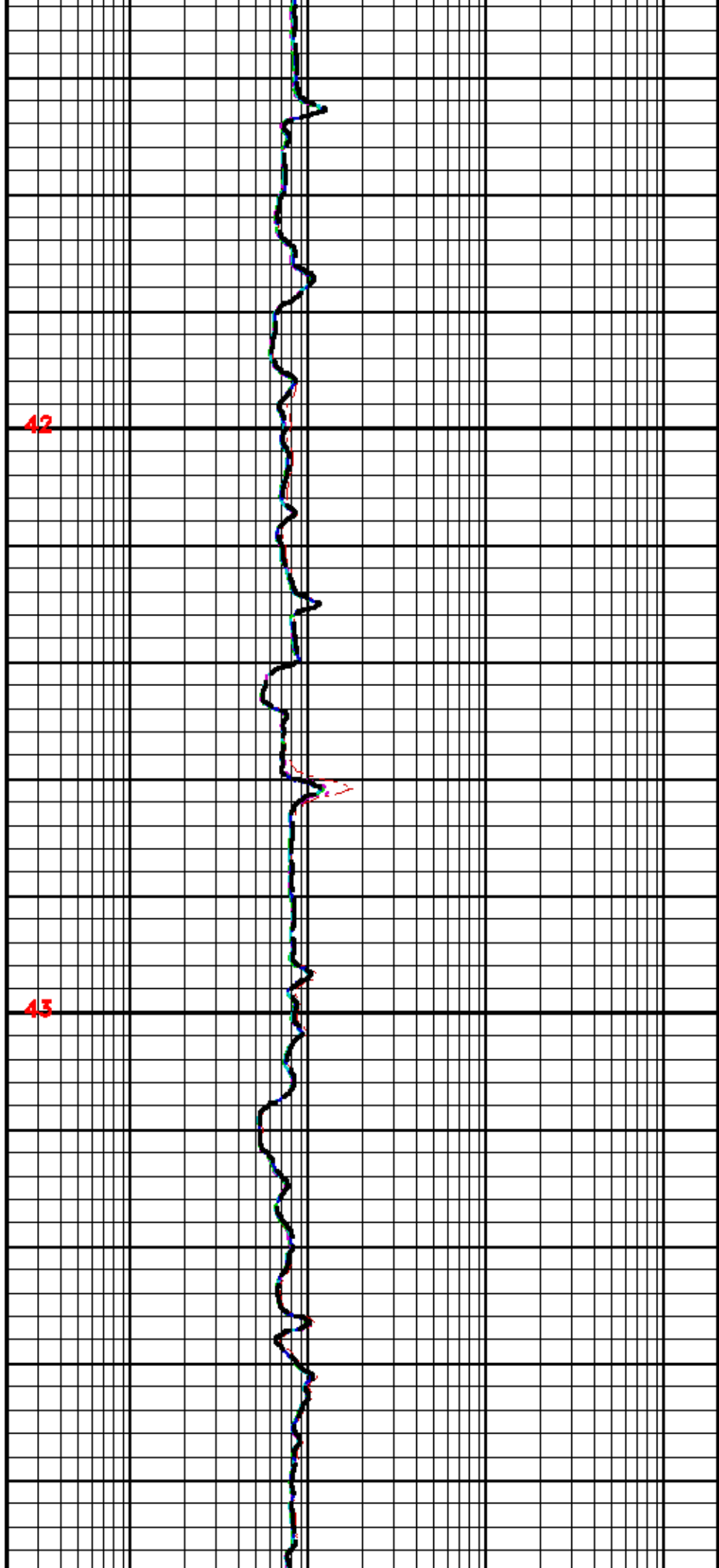
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42



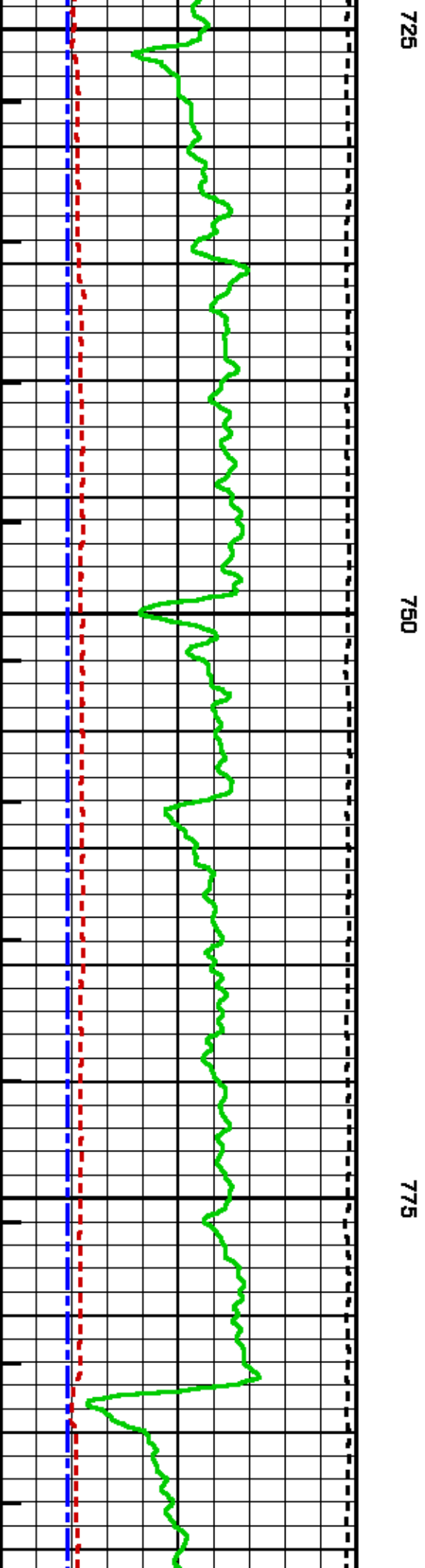
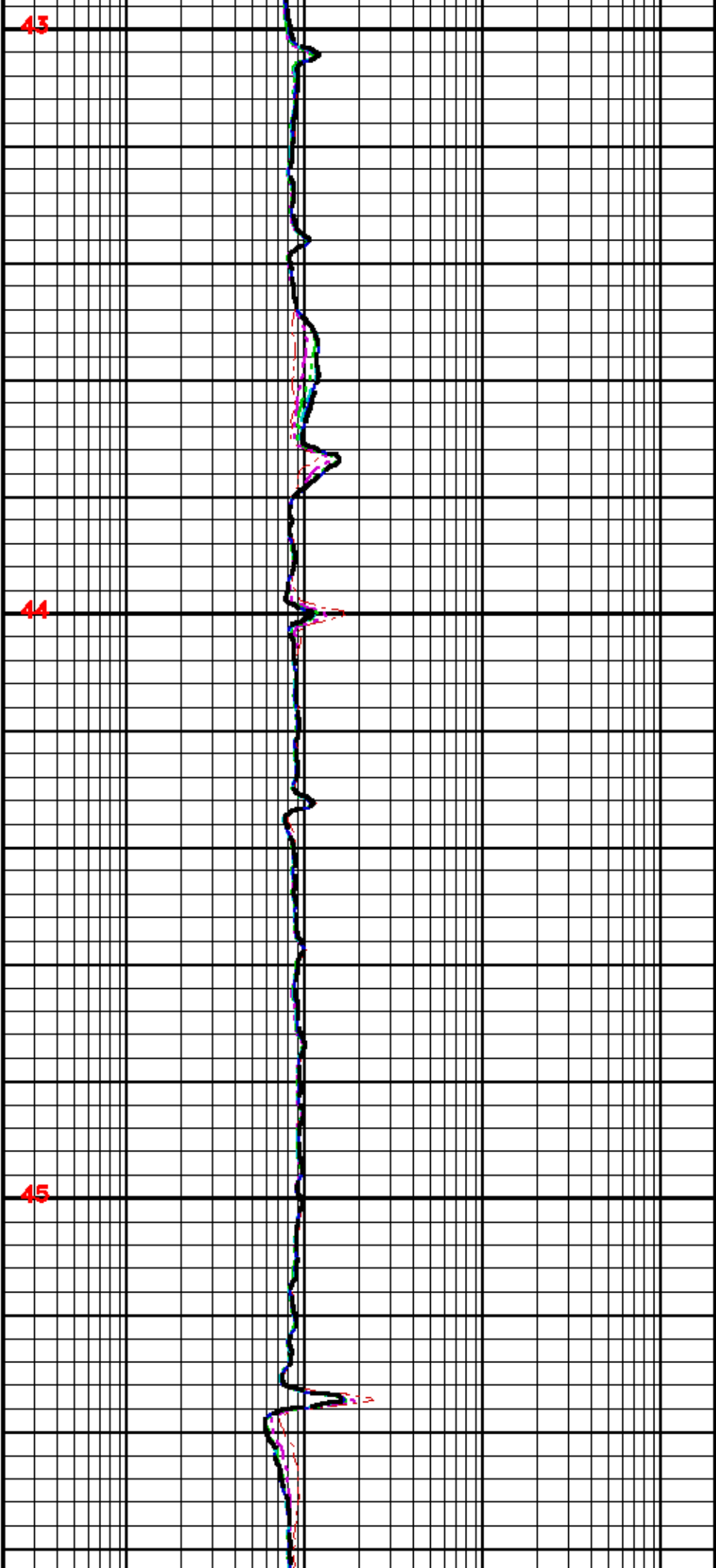
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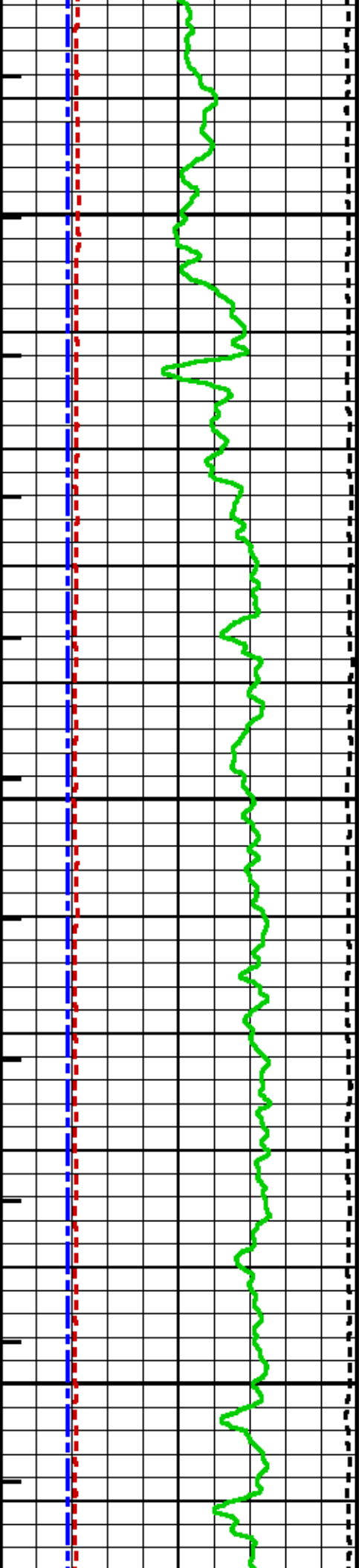
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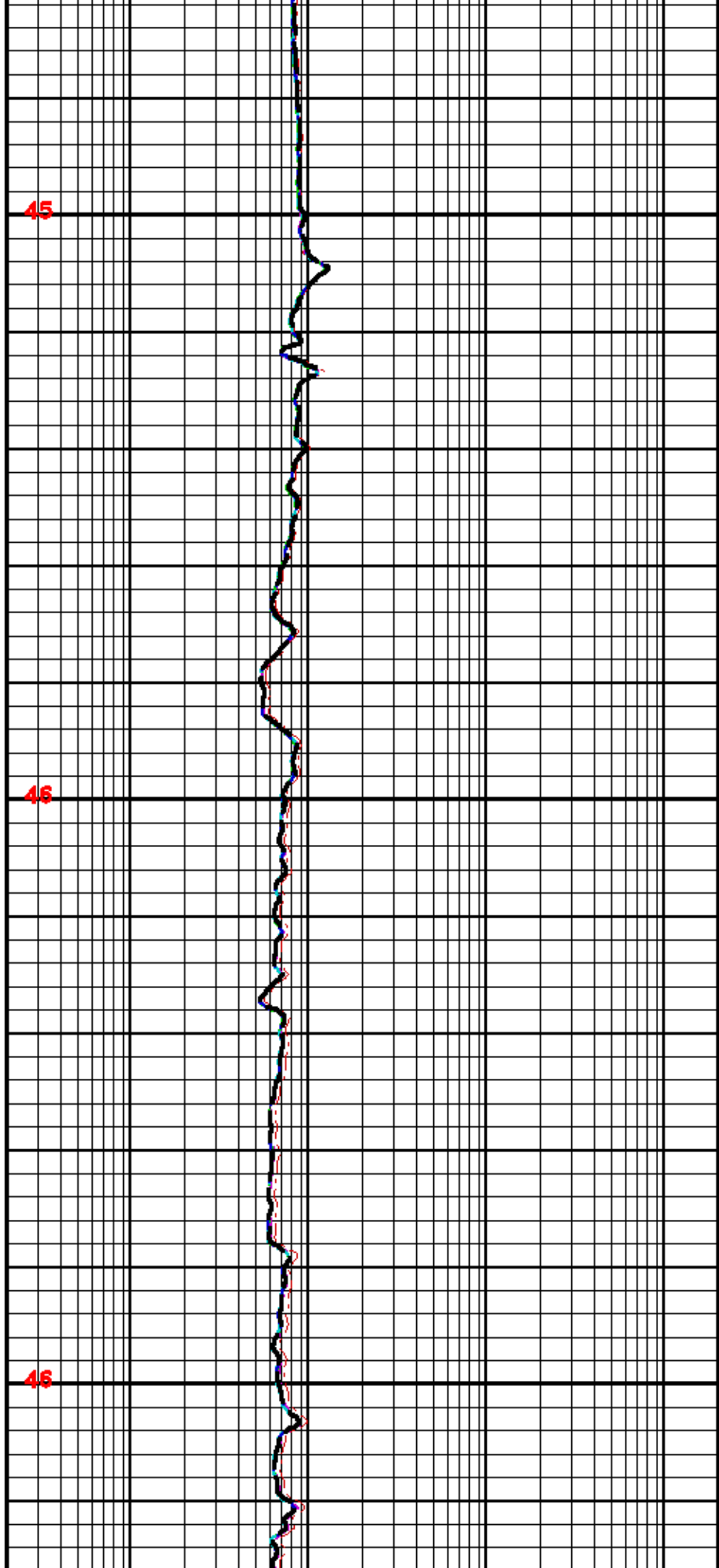




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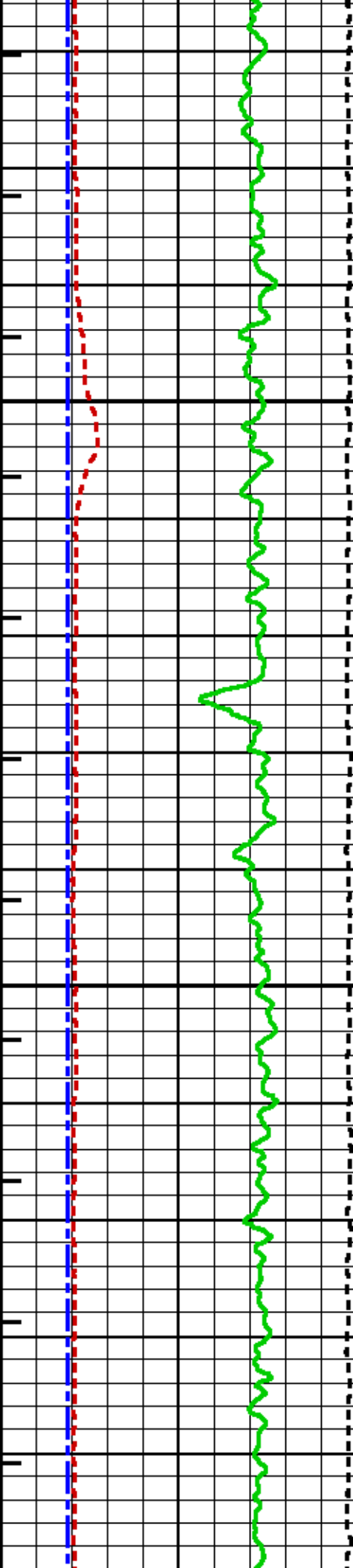
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45

46

46



9

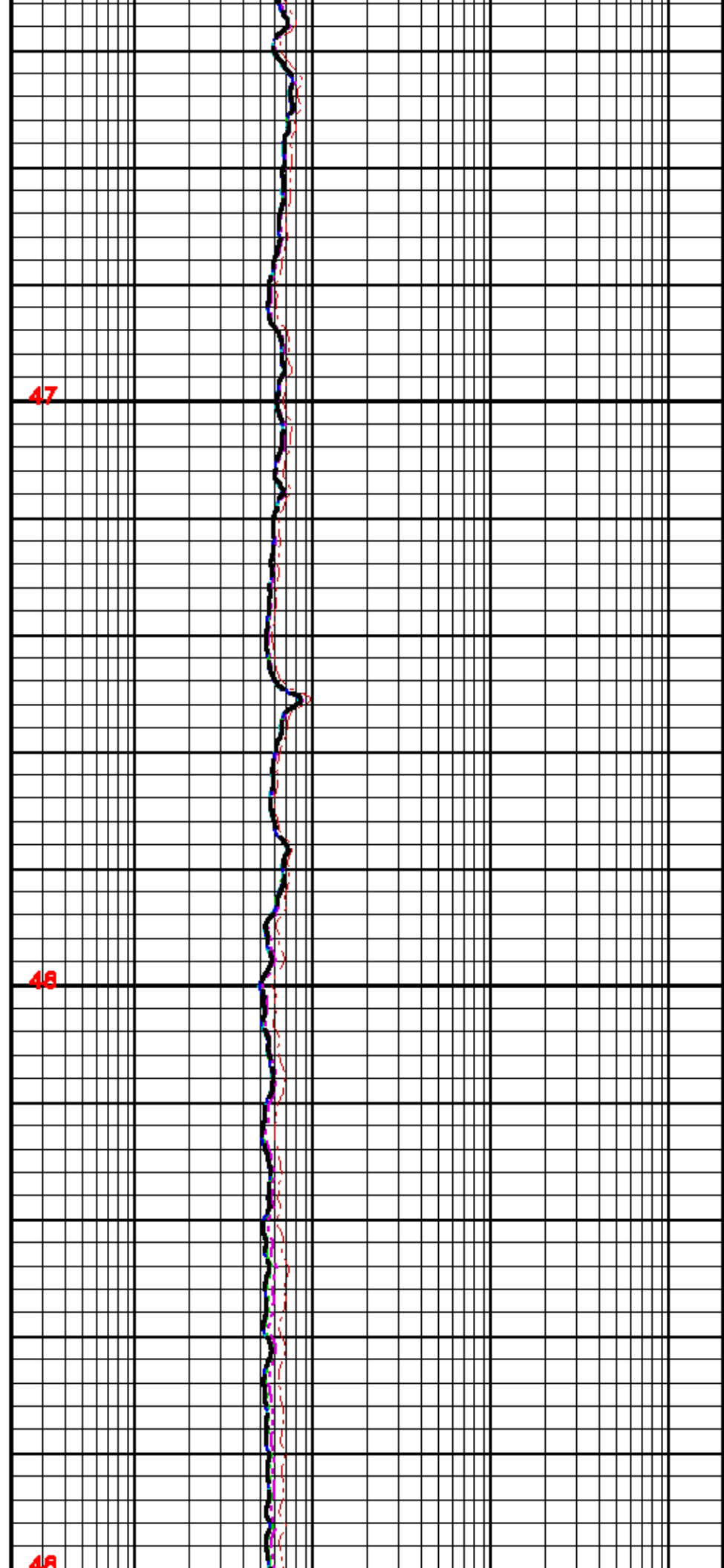
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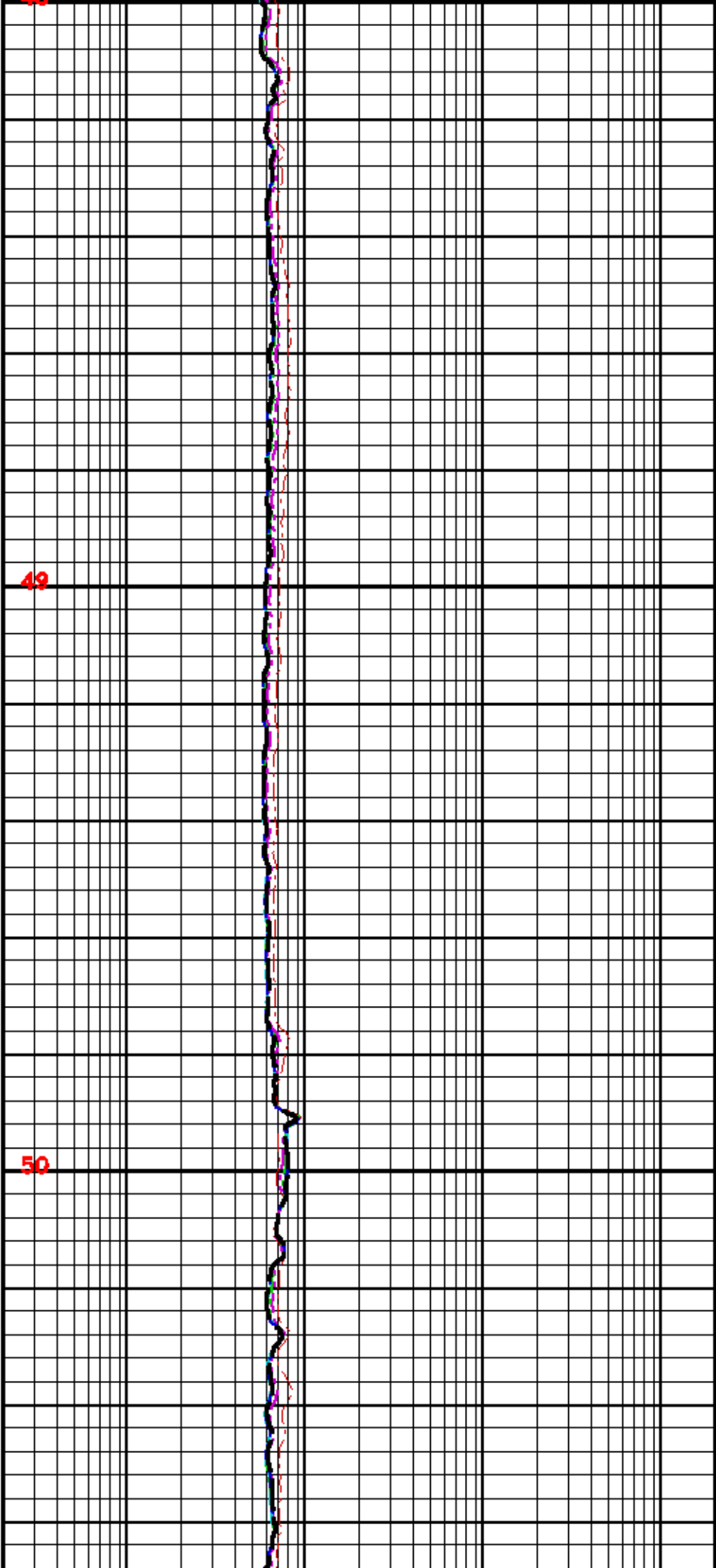
875

46

46

47

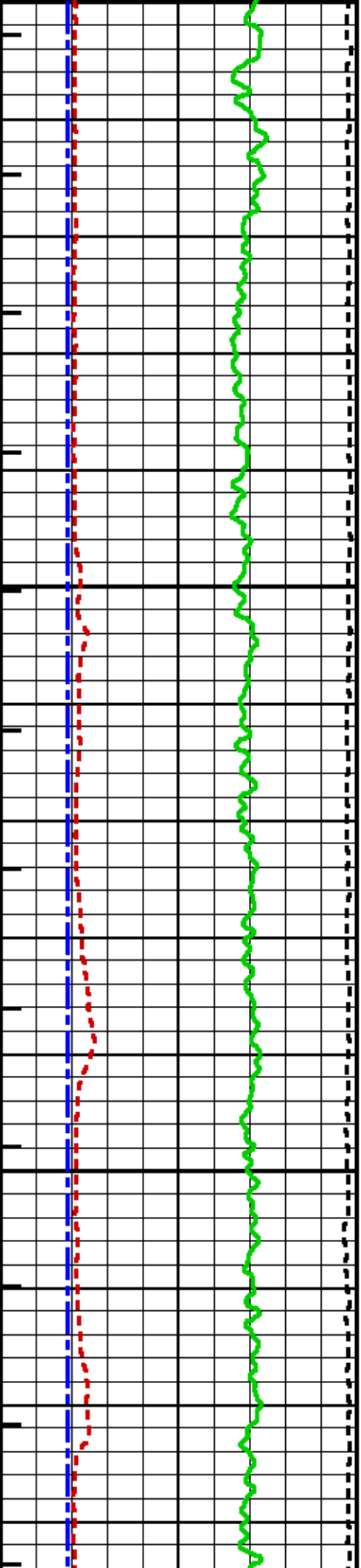


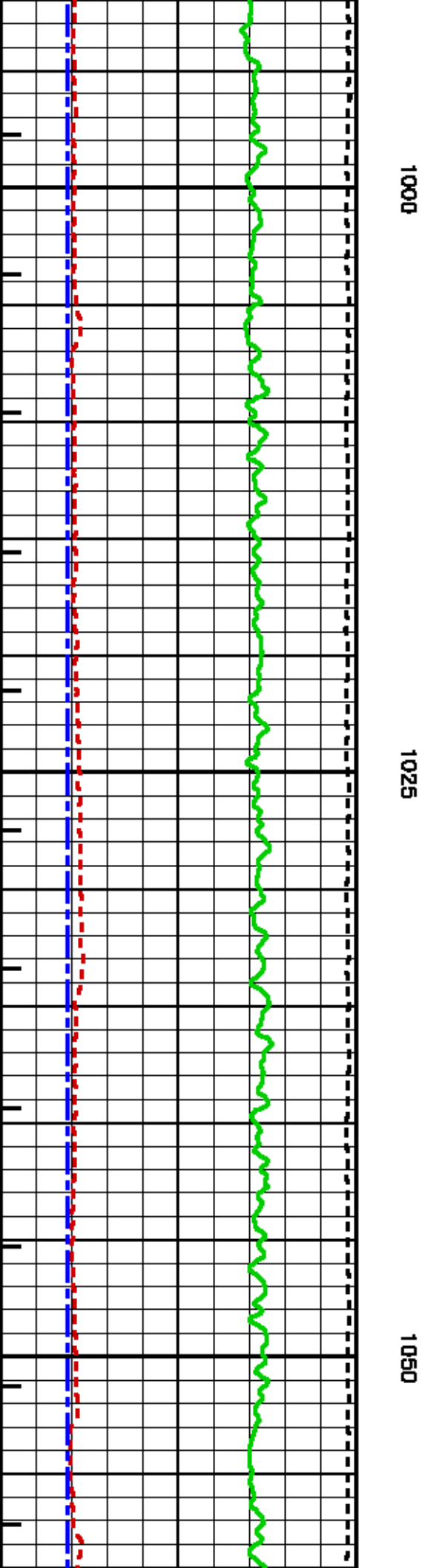
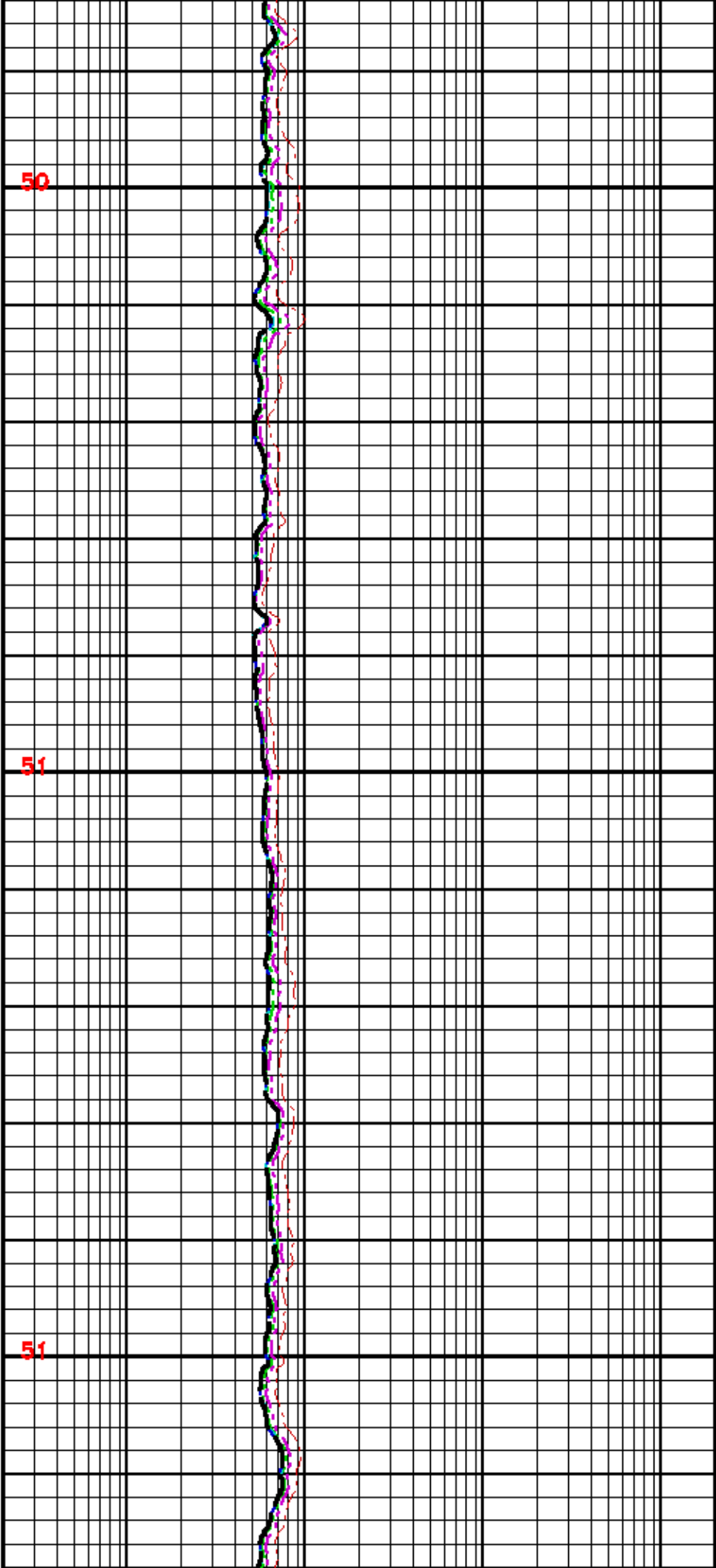


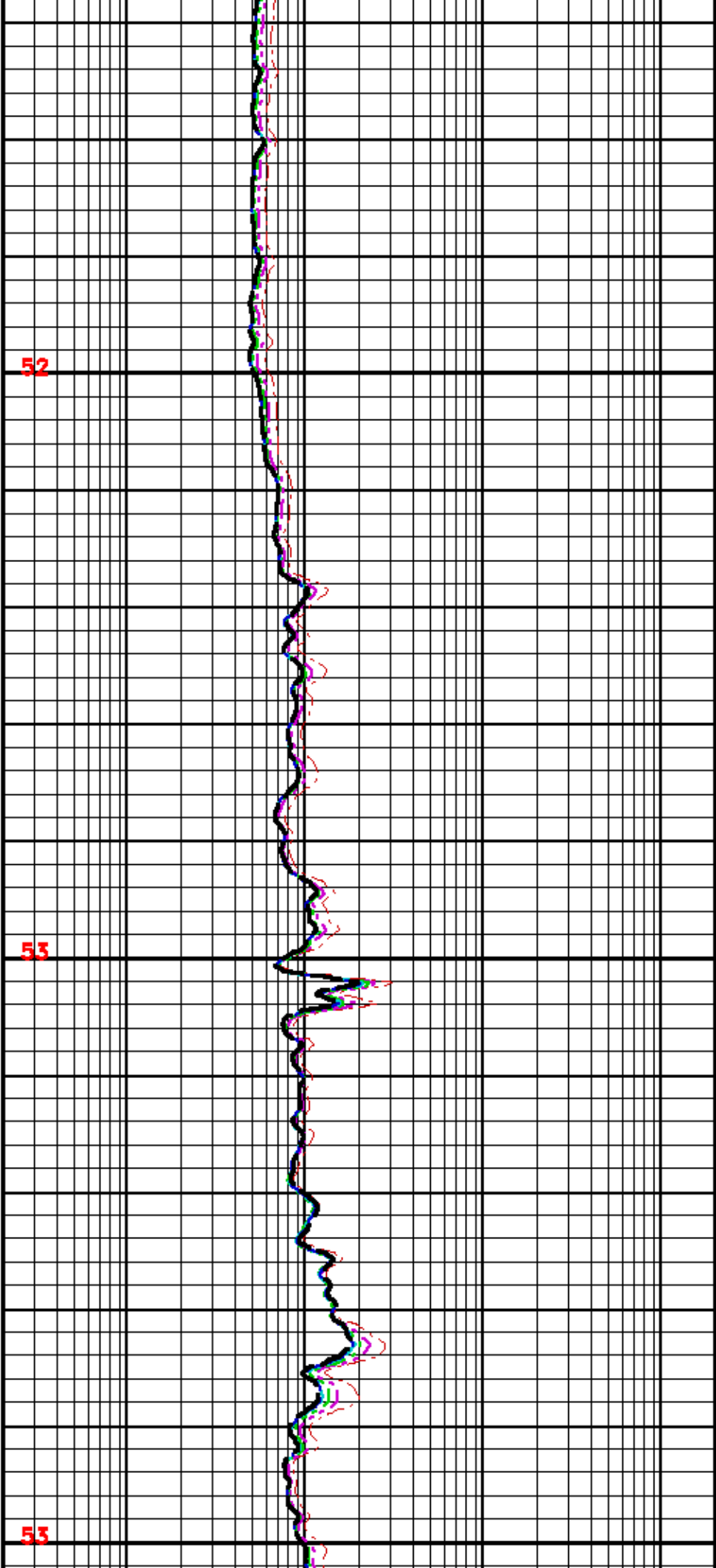
25

950

975



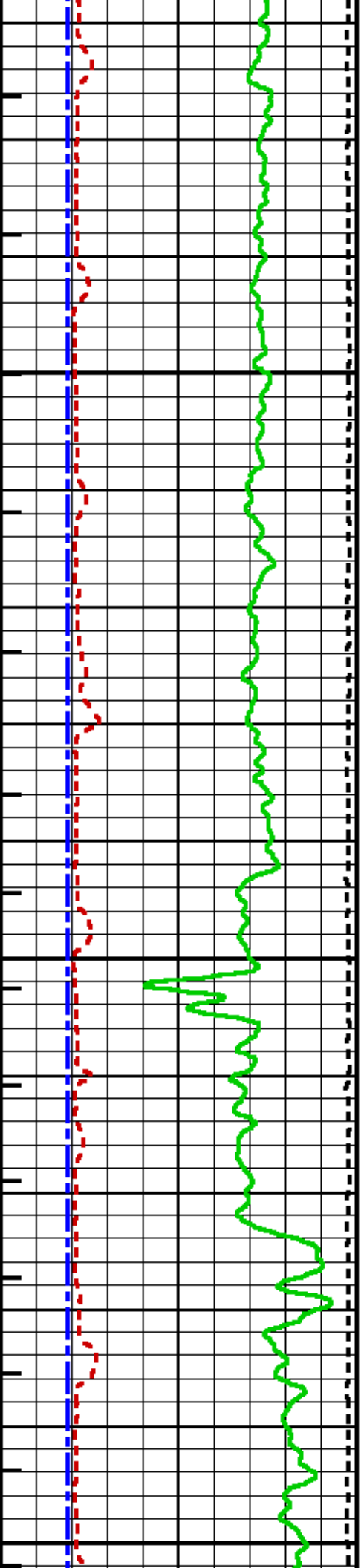


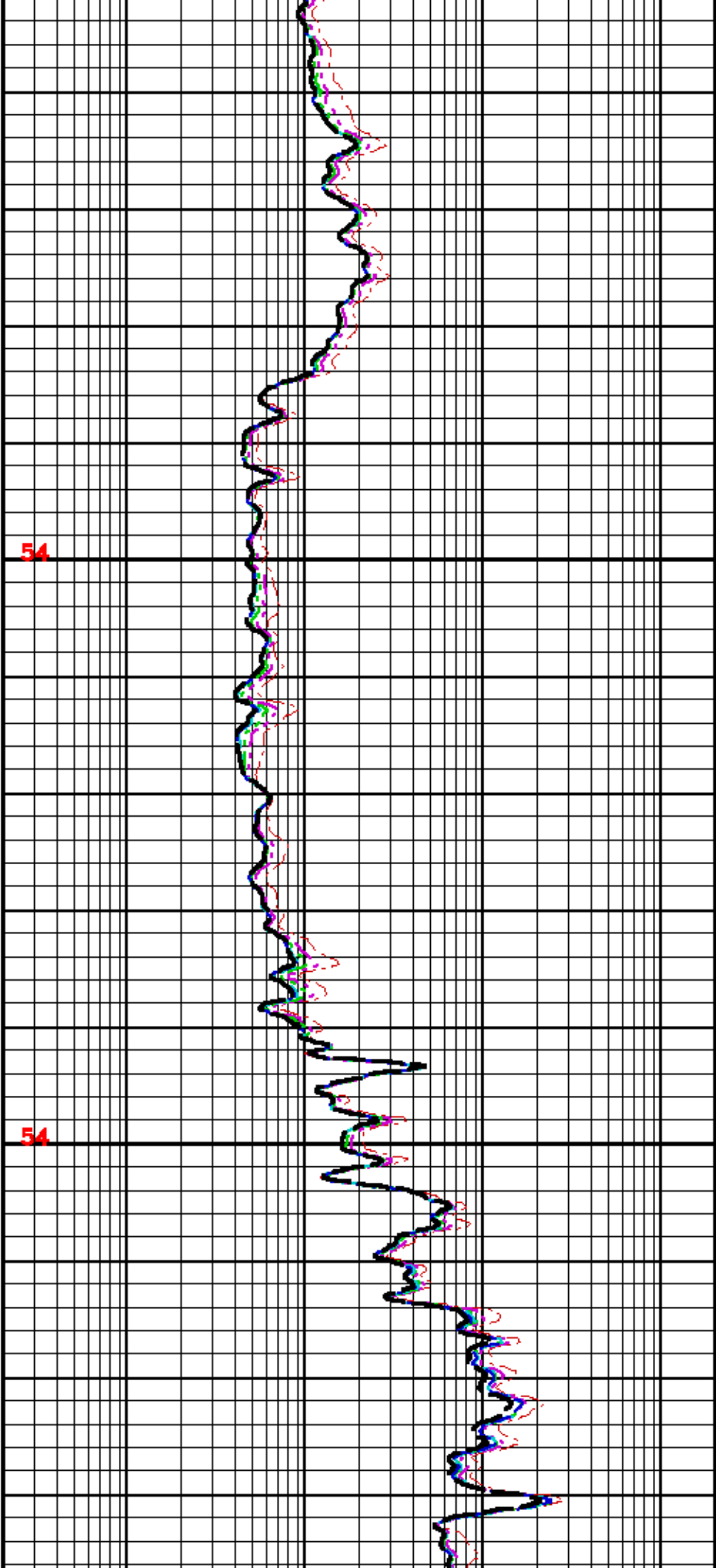


1075

1100

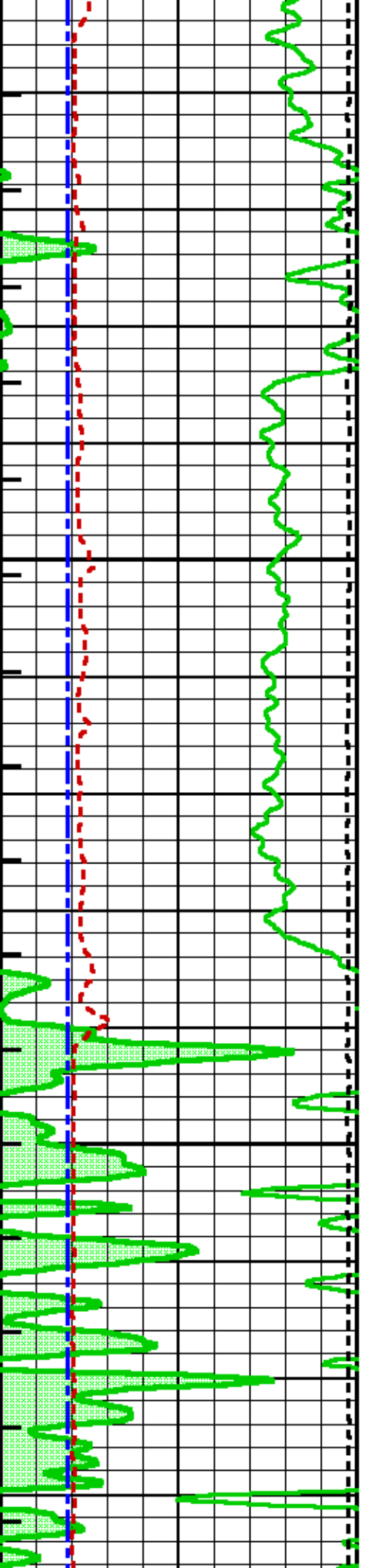
1125

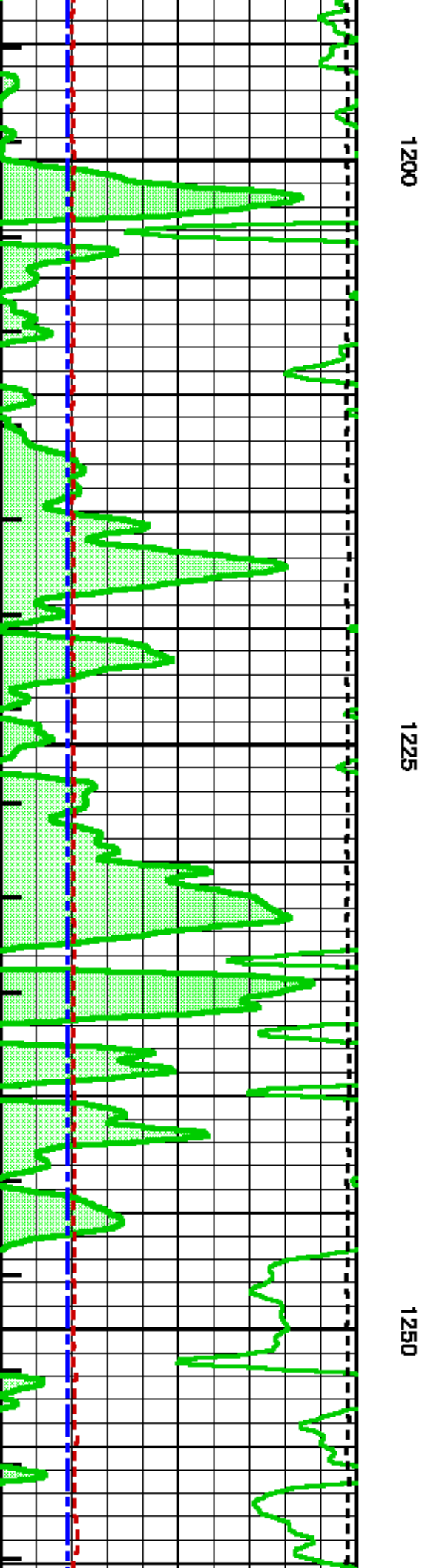
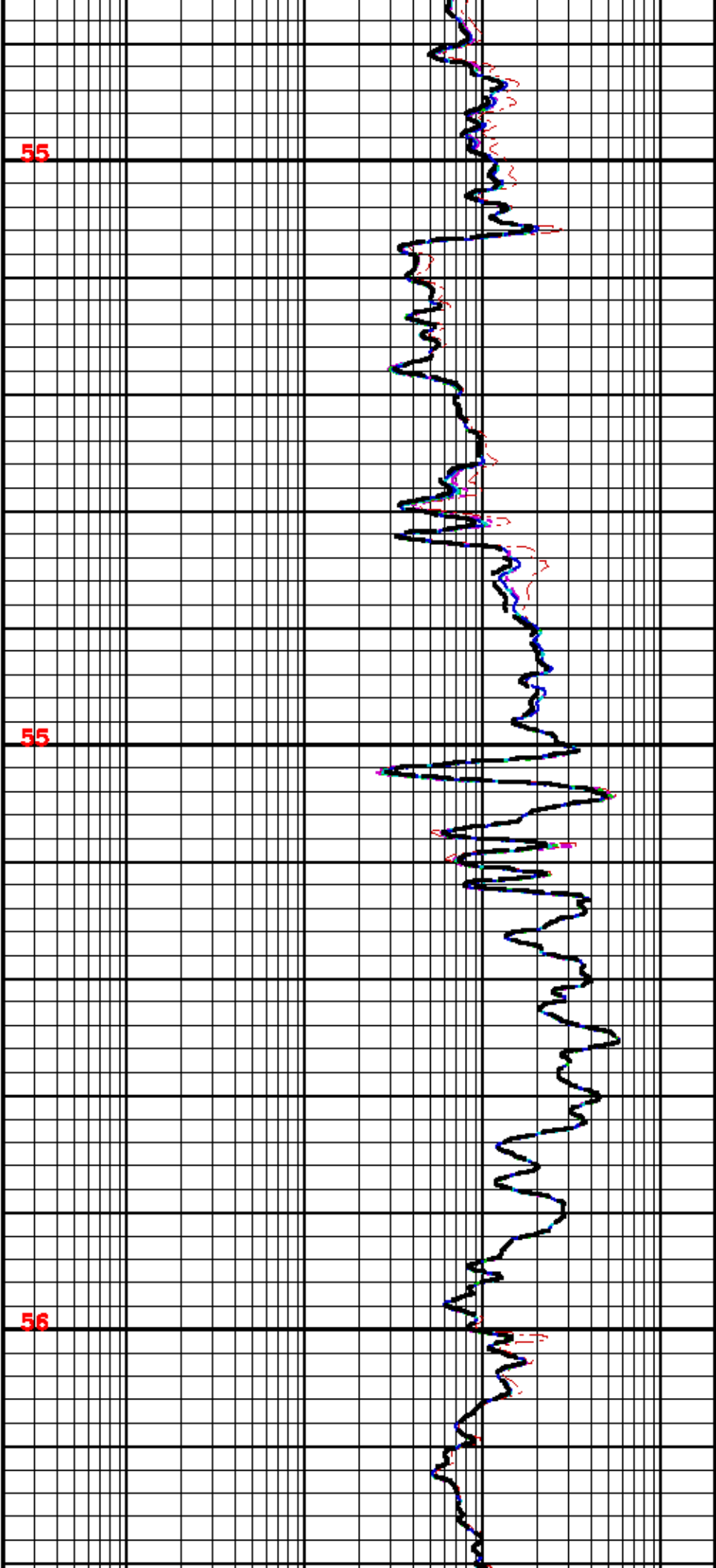


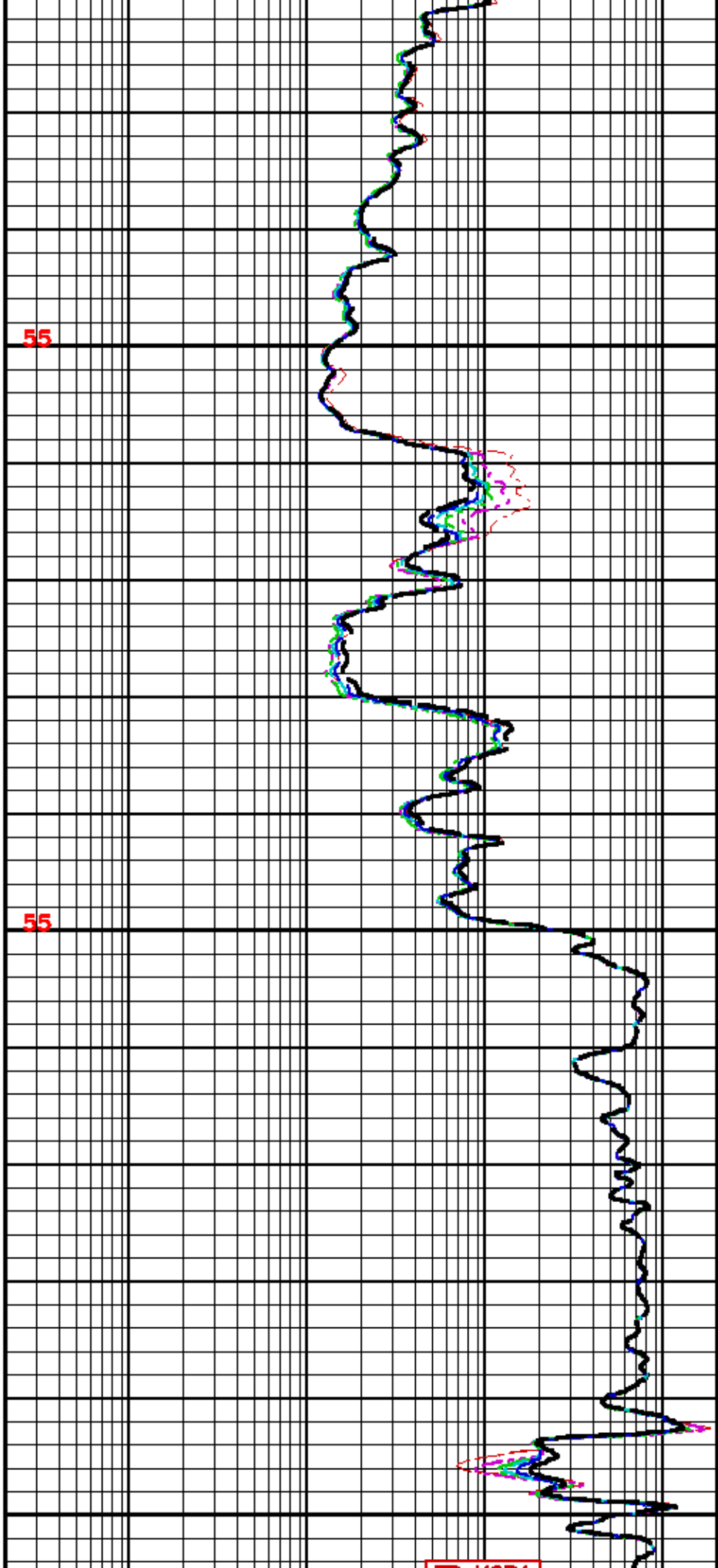


1150

1175



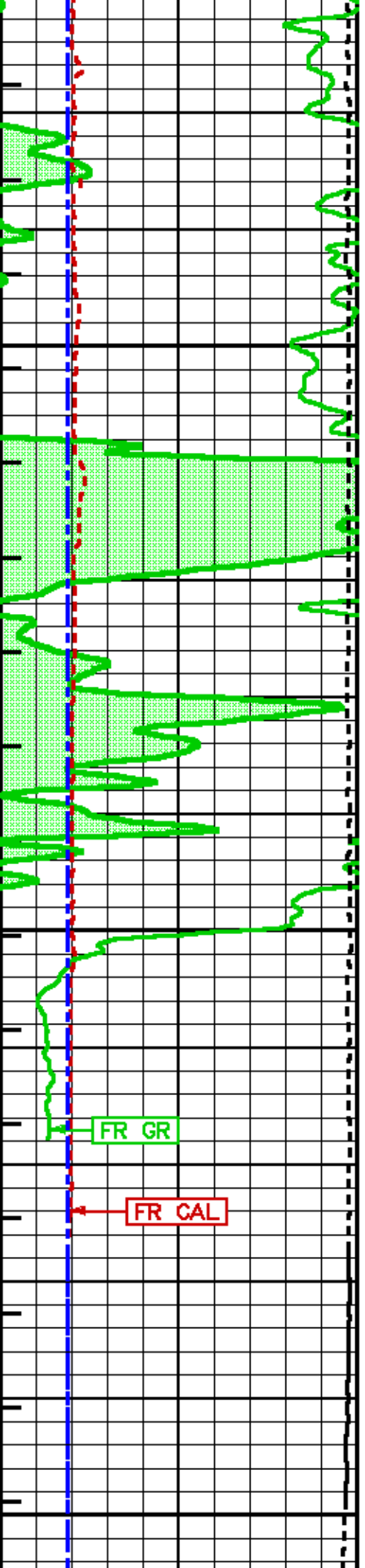


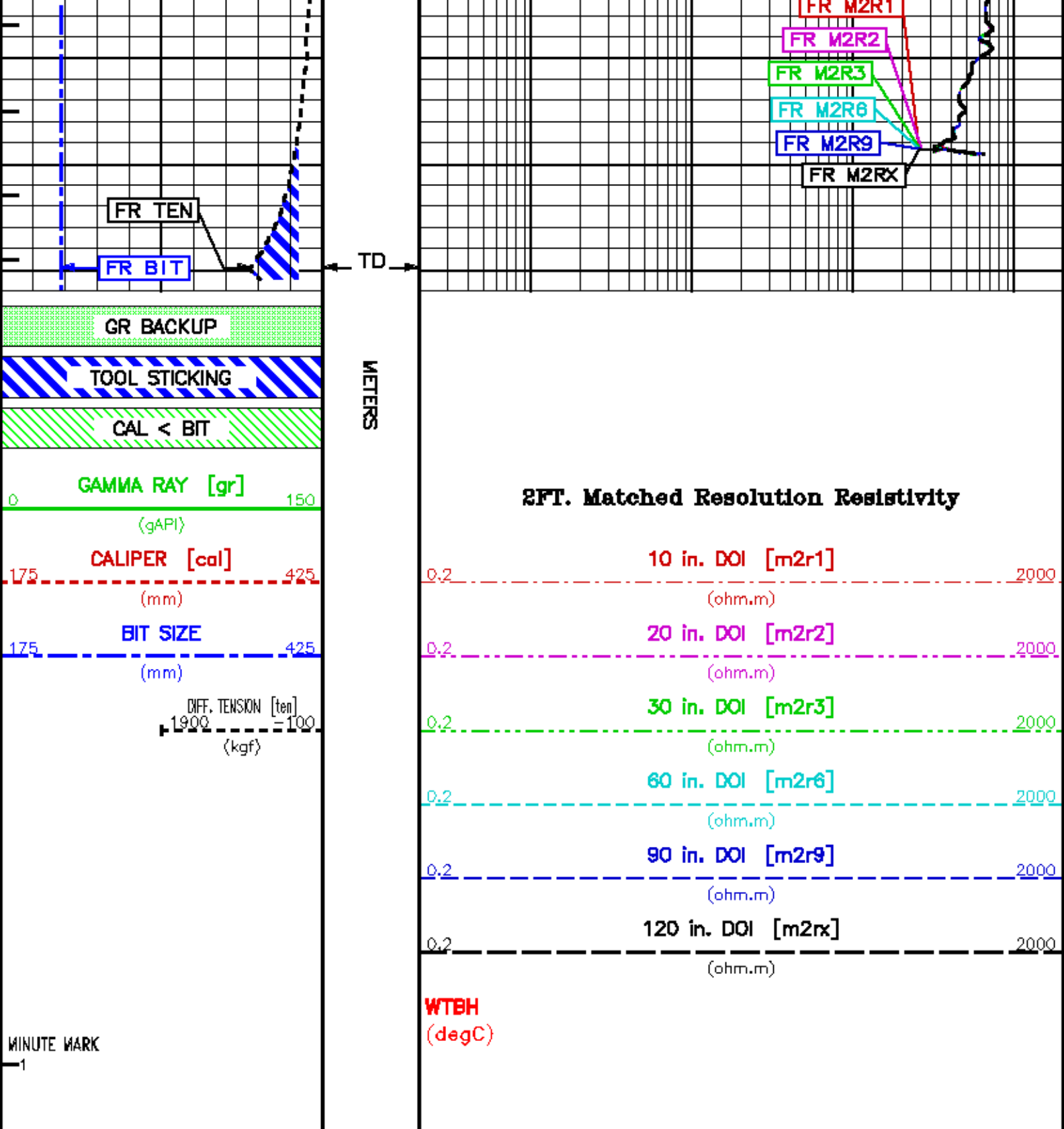


1275

1300

1325





REPEAT LOG

PARAMETER AND FILTER SUMMARY REPORT

File: /data/husky_CA212311/m77wvh_xc02.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 1212.809 m BOTTOM DEPTH: 1340.929 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
Y AXIS CALIPER	FILTER ()	medium (1)		TOP	BOTTOM
TENSION	FILTER ()	medium (1)		"	"
GR	FILTER ()	medium (1)		"	"
CALIPER	FILTER ()	medium (1)		"	"
	FILTER (.h)	medium (1)		"	"
	FILTER (.l)	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
BIT SIZE	BIT SIZE	222.000	mm	TOP	BOTTOM
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (mbh*)	222.000	mm	"	"
BH MUD RESISTIVITY SOURCE	RMD SOURCE (HDIL)	OIL BASE MUD		"	"

HDIL PROCESSING

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

CURVE DESCRIPTION REPORT

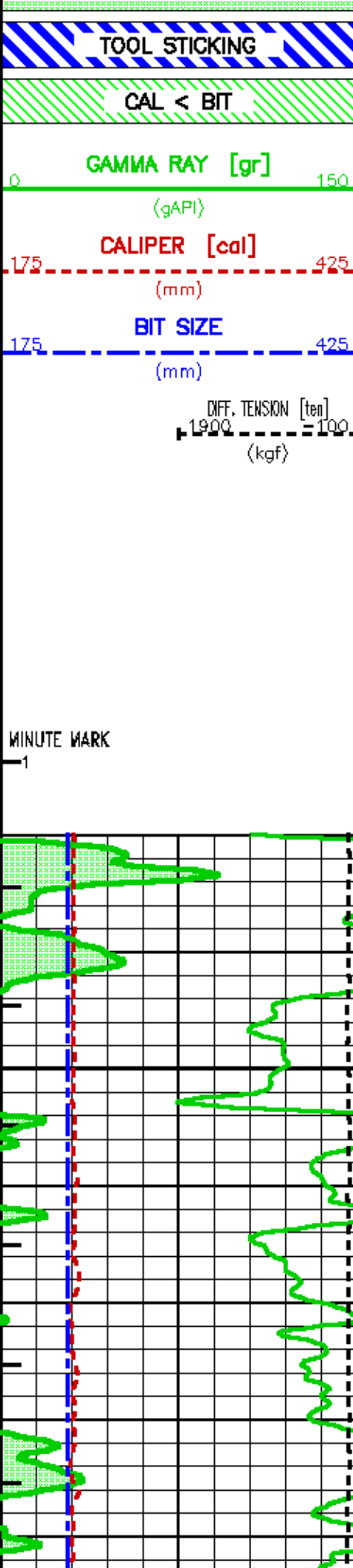
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:BIT	Mar 8 21:45:08 2012	BIT SIZE
F1:CAL	Mar 8 21:45:08 2012	CALIPER
F1:GR	Mar 8 21:45:08 2012	GAMMA RAY
F1:M2R1	Mar 8 21:45:08 2012	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 10-INCH DOI
F1:M2R2	Mar 8 21:45:08 2012	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 20-INCH DOI
F1:M2R3	Mar 8 21:45:08 2012	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 30-INCH DOI
F1:M2R6	Mar 8 21:45:08 2012	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 60-INCH DOI
F1:M2R9	Mar 8 21:45:08 2012	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 90-INCH DOI
F1:M2RX	Mar 8 21:45:08 2012	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 120-INCH DOI
F1:MARK	Mar 8 21:45:08 2012	MINUTE MARK
F1:TEN	Mar 8 21:45:08 2012	DIFFERENTIAL TENSION

CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	M2R1	3.66	M2R6	3.66	TEN	0.00
CAL	26.06	M2R2	3.66	M2R9	3.66		
GR	31.38	M2R3	3.66	M2RX	3.66		

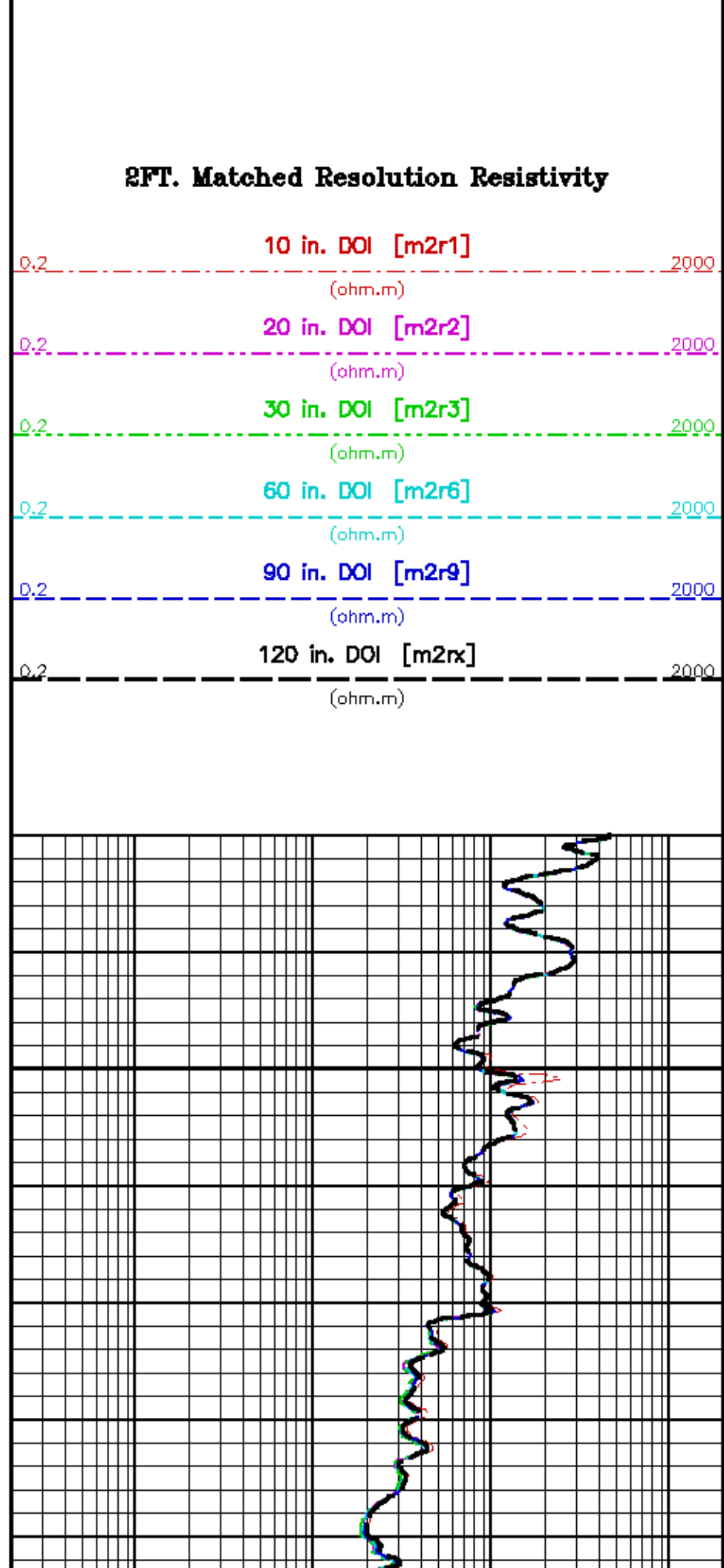
Presentation : epwz/data/husky_CA212311/hdIL_rpt.pdf [1:240 Scale]
 Plot Interval : 1240 - 1340.88 Meters

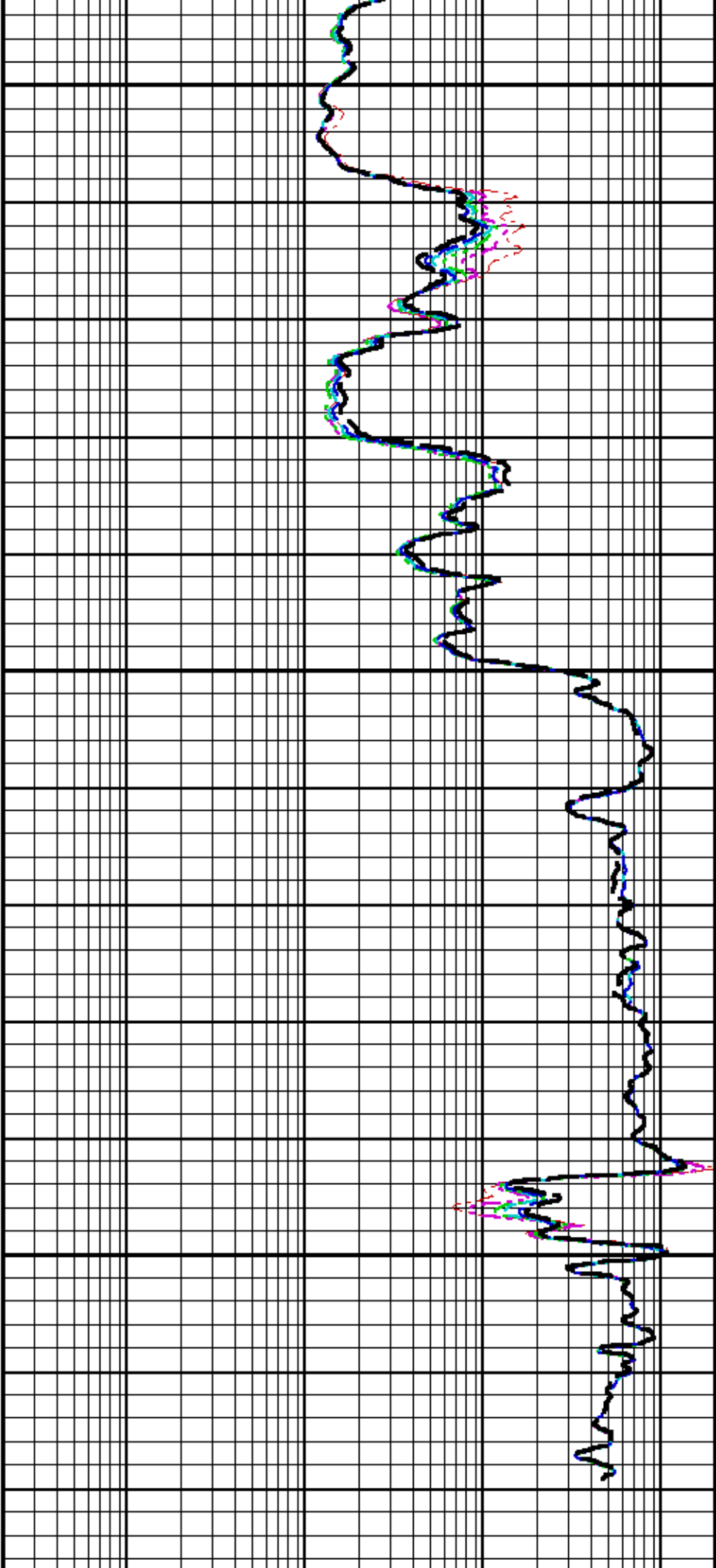
Data File 1 : F1 : epwz/data/husky_CA212311/m77wvh_xc02.off
 Created On : Mar 8 21:45:08 2012
 Company : HUSKY OIL OPERATIONS LIMITED
 Well : LITTLE BEAR H-84
 Field : SLATER RIVER
 File Interval : 1177.08 - 1340.93 Meters
 Oct : m77wvh_x



FEET

1250

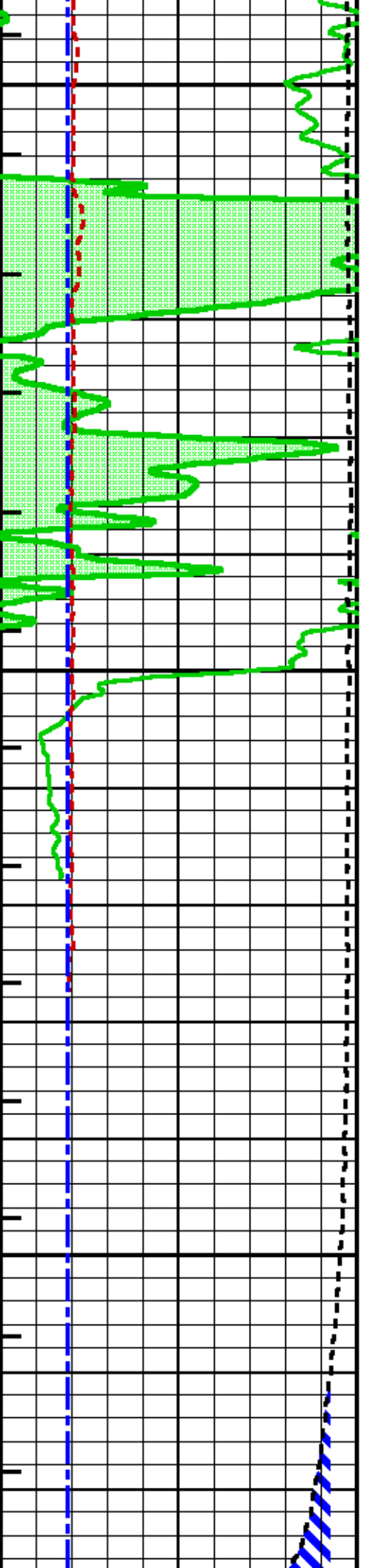


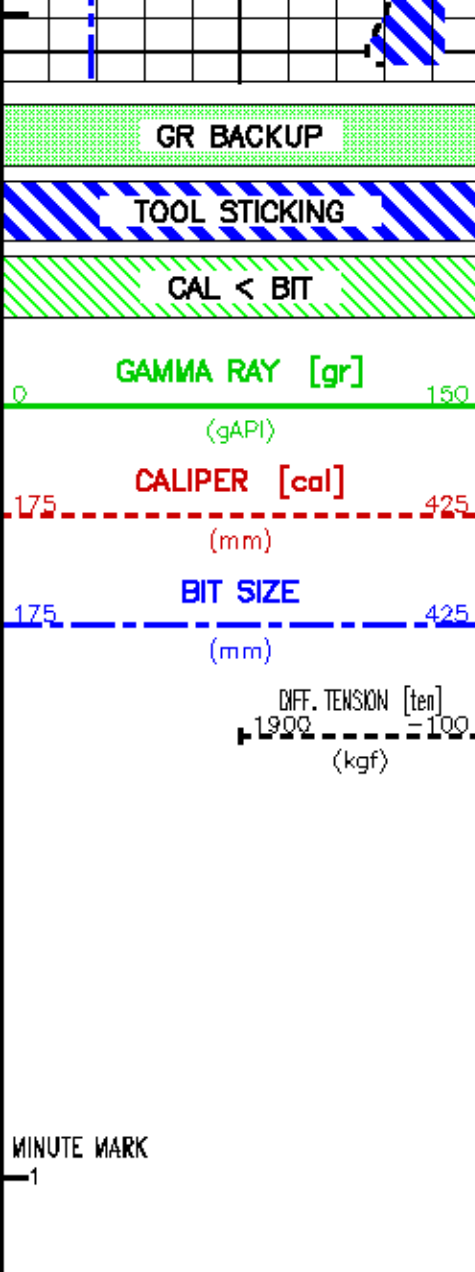


1275

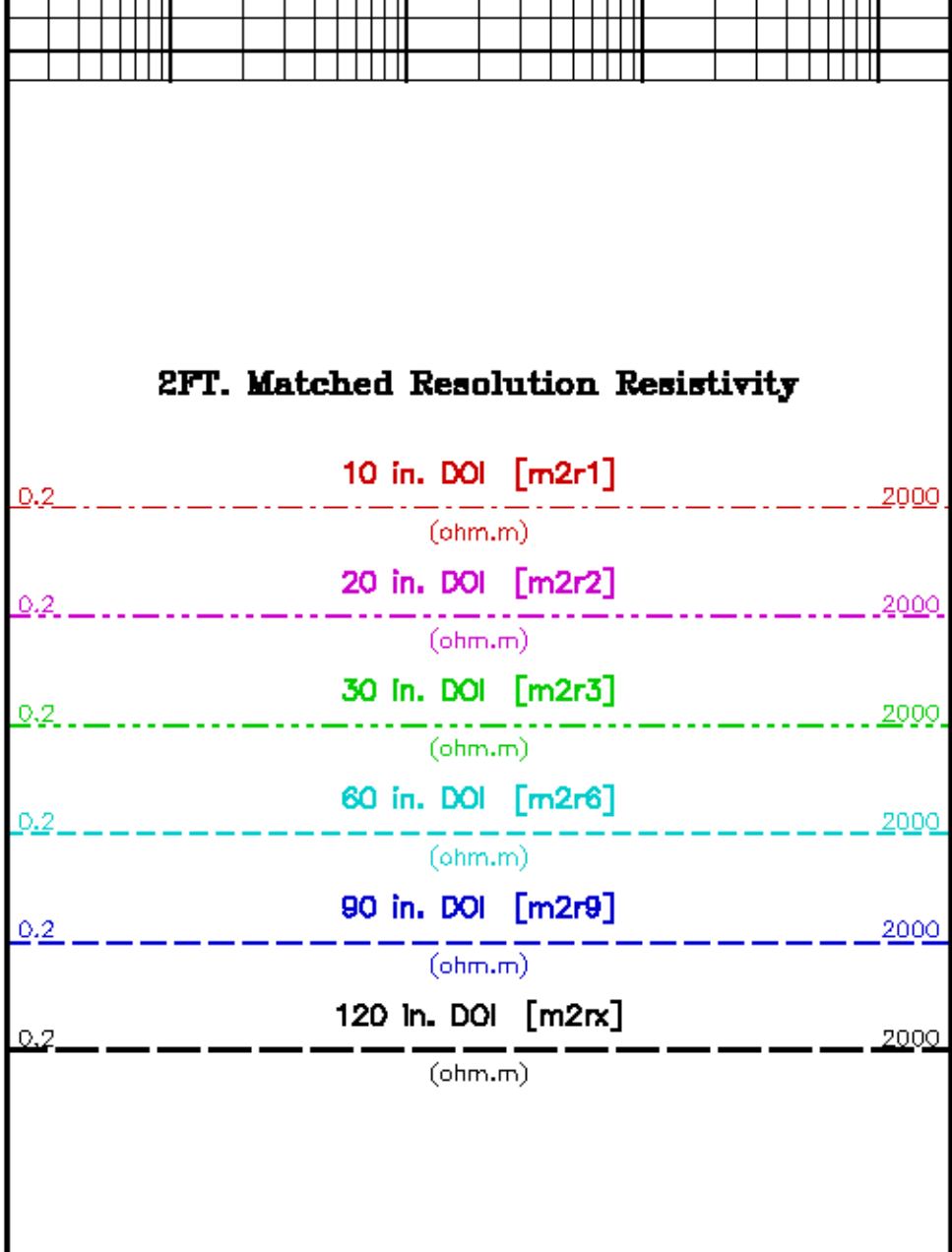
1300

1325





METERS



CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/humky_CA212311/m77erh_xc.tp2

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 11756674

DATE/TIME PERFORMED: Mon Feb 27 20:16:08 2012

UNIT #: 5753XB 10108816

CALB JIG #: 4702NK DA-554

	BACKGROUND	CALBTR ON	CR DIFF	MULT	BACKGROUND	CALBTR ON	CALBTR
	(cts/s)	(cts/s)	(cts/s)		(gAPI)	(gAPI)	(gAPI)
GR	147.84	1025.36	877.5	0.171	25.27	175.27	150
			830.0 960.0				

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 11756674

DATE/TIME PERFORMED: Mon Feb 27 20:21:47 2012

UNIT #: 5753XB 10108816

VERI JIG #: 4702NK DA-554

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	147.64	1027.87	0.171	25.24	175.70	150.46
						140.00 160.00

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1329XA 11756674

DATE/TIME PERFORMED: Mon Mar 5 17:29:14 2012

DAYS SINCE CAL: 6

UNIT #: 3854SA 008672

VERI JIG #: 4702NK DA-554

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	44.80	951.49	0.171	7.66	162.65	154.99
						140.48 160.48

GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 1329XA 11756674

DATE/TIME PERFORMED: Wed Mar 7 02:34:48 2012

DAYS SINCE CAL: 8

UNIT #: 3854SA 008672

VERI JIG #: 4702NK DA-554

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	59.27	927.44	0.171	10.13	158.54	148.40
						144.39 164.99

CAL PRIMARY CALIBRATION SUMMARY

TOOL #: 2234XA 168004

DATE/TIME PERFORMED: Sat Feb 25 11:34:06 2012

UNIT #: 5753XB 10108816

	SMALL RING (mm)	LARGE RING (mm)	MULT	ADD	SMALL RING (mm)	LARGE RING (mm)
CALIPER	882.0	1550.0	0.19461	3.35328	175.000	305.000

CAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2234XA 168004 DATE/TIME PERFORMED: Tue Mar 6 21:09:56 2012 DAYS SINCE CAL: 10

UNIT #: 3854SA 008672

	I.D.	MULT	ADD	I.D. (mm)
CALIPER	1155.6	0.19461	3.35328	228.246

CAL AFTER LOG VERIFICATION SUMMARY

TOOL #: 2234XA 168004 DATE/TIME PERFORMED: Wed Mar 7 01:02:41 2012 DAYS SINCE CAL: 10

UNIT #: 3854SA 008672

	I.D.	MULT	ADD	I.D. (mm)
CALIPER	1154.4	0.19461	3.35328	228.012
				215.546 240.946

HDIL PRIMARY CALIBRATION SUMMARY

TOOL #: 1515MA 11997966

DATE/TIME PERFORMED: Fri Jan 6 21:11:05 2012

UNIT #: 5753XB 10108816

GRCOND ID & DATE: Nisku 0802111

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	-0.011 -0.200 0.200	0.001 -0.100 0.100	0.001 -0.100 0.100	-0.002 -0.100 0.100	-0.003 -0.100 0.100	-0.001 -0.100 0.100	-0.001 -0.100 0.100	-0.004 -0.100 0.100
Coil 0 Q	0.010 -1.000 1.000	0.010 -0.200 0.200	0.003 -0.100 0.100	0.001 -0.100 0.100	0.004 -0.100 0.100	0.002 -0.100 0.100	0.000 -0.100 0.100	0.004 -0.100 0.100
Coil 1 R	0.005 -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	-0.001 -0.100 0.100	-0.002 -0.100 0.100	-0.001 -0.100 0.100
Coil 1 Q	-0.001 -1.000 1.000	-0.001 -0.200 0.200	-0.003 -0.100 0.100	0.000 -0.100 0.100	0.003 -0.100 0.100	0.002 -0.100 0.100	0.002 -0.100 0.100	0.001 -0.100 0.100
Coil 2 R	0.004 -0.200 0.200	-0.003 -0.100 0.100	-0.003 -0.100 0.100	0.001 -0.100 0.100	-0.002 -0.100 0.100	0.003 -0.100 0.100	0.005 -0.100 0.100	0.005 -0.100 0.100
Coil 2 Q	-0.010 -1.000 1.000	-0.006 -0.200 0.200	-0.003 -0.100 0.100	-0.002 -0.100 0.100	-0.004 -0.100 0.100	-0.006 -0.100 0.100	-0.003 -0.100 0.100	-0.001 -0.100 0.100
Coil 3 R	-0.005 -0.100 0.100	0.001 -0.100 0.100	0.001 -0.100 0.100	0.004 -0.100 0.100	0.001 -0.100 0.100	-0.006 -0.100 0.100	-0.003 -0.100 0.100	0.003 -0.100 0.100
Coil 3 Q	-0.011 -0.500 0.500	-0.010 -0.200 0.200	-0.003 -0.100 0.100	0.001 -0.100 0.100	0.002 -0.100 0.100	0.001 -0.100 0.100	-0.002 -0.100 0.100	-0.006 -0.100 0.100
Coil 4 R	-0.036 -0.200 0.200	-0.015 -0.200 0.200	0.003 -0.200 0.200	-0.007 -0.200 0.200	-0.010 -0.200 0.200	0.005 -0.200 0.200	0.004 -0.200 0.200	-0.004 -0.200 0.200
Coil 4 Q	0.008 -1.000 1.000	0.024 -0.400 0.400	0.003 -0.200 0.200	0.001 -0.200 0.200	0.005 -0.200 0.200	-0.001 -0.200 0.200	-0.003 -0.200 0.200	0.003 -0.200 0.200
Coil 5 R	0.018 -0.400 0.400	0.007 -0.400 0.400	0.004 -0.400 0.400	0.006 -0.400 0.400	0.013 -0.400 0.400	0.017 -0.400 0.400	0.004 -0.400 0.400	-0.017 -0.400 0.400
Coil 5 Q	-0.026 -2.000 2.000	-0.014 -0.800 0.800	-0.009 -0.400 0.400	0.000 -0.400 0.400	-0.011 -0.400 0.400	0.003 -0.400 0.400	0.018 -0.400 0.400	0.012 -0.400 0.400

Coil 6 R	-0.002	0.008	0.001	-0.023	-0.012	0.001	-0.016	0.020
	-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	-0.014	0.003	0.011	-0.004	0.019	0.012	-0.020	-0.012
	-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	125.79	124.82	122.93	119.81	115.87	110.52	104.35	96.78
	100.00 150.00	100.00 150.00	98.00 150.00	96.00 140.00	92.00 140.00	87.00 130.00	82.00 120.00	78.00 110.00
Coil 0 P	7.282	22.941	38.408	53.907	69.440	85.030	100.514	116.029
	8.000 9.000	19.000 26.000	32.000 47.000	44.000 68.000	57.000 85.000	70.000 100.000	82.000 120.000	96.000 140.000
Coil 1 M	222.56	220.28	215.88	208.95	200.51	189.59	177.59	163.46
	180.00 270.00	180.00 270.00	170.00 280.00	170.00 250.00	160.00 250.00	160.00 230.00	150.00 220.00	140.00 200.00
Coil 1 P	7.616	23.965	40.047	56.077	71.982	87.861	103.483	119.054
	8.000 9.000	19.000 26.000	32.000 48.000	45.000 67.000	57.000 86.000	70.000 110.000	83.000 120.000	98.000 140.000
Coil 2 M	442.98	438.28	429.37	415.70	398.70	376.86	353.18	325.20
	380.00 540.00	380.00 540.00	350.00 530.00	340.00 510.00	330.00 500.00	310.00 470.00	300.00 440.00	270.00 410.00
Coil 2 P	7.818	24.524	40.933	57.301	73.557	89.787	105.825	121.802
	8.000 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	98.000 140.000
Coil 3 M	724.53	716.94	702.84	680.69	653.53	617.92	578.99	532.68
	590.00 880.00	580.00 870.00	570.00 850.00	550.00 830.00	530.00 800.00	500.00 780.00	470.00 710.00	440.00 650.00
Coil 3 P	7.802	24.560	41.046	57.503	73.847	90.159	106.274	122.329
	8.000 10.000	20.000 29.000	33.000 49.000	48.000 69.000	59.000 89.000	72.000 110.000	85.000 130.000	98.000 150.000
Coil 4 M	1153.9	1143.7	1124.3	1093.1	1054.5	1002.2	943.5	872.0
	900.0 1400.0	900.0 1300.0	900.0 1300.0	850.0 1300.0	800.0 1200.0	800.0 1200.0	750.0 1100.0	700.0 1000.0
Coil 4 P	7.766	24.456	40.926	57.397	73.873	90.370	106.784	123.186
	8.000 10.000	20.000 30.000	33.000 50.000	48.000 70.000	60.000 90.000	73.000 110.000	86.000 130.000	99.000 150.000
Coil 5 M	2333.3	2316.0	2281.8	2224.6	2151.4	2049.5	1931.0	1784.5
	1900.0 2800.0	1800.0 2600.0	1800.0 2700.0	1800.0 2800.0	1700.0 2500.0	1600.0 2400.0	1500.0 2200.0	1400.0 2100.0
Coil 5 P	7.961	25.034	41.910	58.895	75.945	93.112	110.227	127.395
	8.000 10.000	20.000 31.000	34.000 51.000	48.000 72.000	62.000 93.000	76.000 110.000	89.000 130.000	100.000 150.000
Coil 6 M	5975.6	5902.5	5764.9	5553.7	5298.2	4978.2	4629.3	4231.0
	4700.0 7100.0	4700.0 7000.0	4800.0 6900.0	4400.0 6800.0	4200.0 6400.0	4000.0 6000.0	3700.0 5800.0	3400.0 5100.0
Coil 6 P	8.382	26.531	44.329	61.986	79.503	96.871	113.998	131.013
	7.000 10.000	22.000 32.000	38.000 54.000	51.000 78.000	66.000 96.000	80.000 120.000	94.000 140.000	110.000 160.000

AM Factor 10 KHz 30 KHz 50 KHz 70 KHz 90 KHz 110 KHz 130 KHz 150 KHz

Coil 0 R	427	-72	-127	-145	-155	-162	-166	-169
	-200 800	-600 200	-800 100	-800 50	-600 20	-500 20	-500 20	-600 20
Coil 0 Q	1368	505	284	176	106	53	8	-30
	-3000 8000	-1000 2000	-1000 1200	-500 900	-400 700	-400 600	-400 500	-400 400
Coil 1 R	530	76	18	-3	-13	-18	-22	-24
	450 650	20 130	-30 80	-50 40	-65 30	-80 20	-80 10	-80 10
Coil 1 Q	464	228	148	106	81	62	48	36
	0 2500	0 900	0 600	0 450	0 350	0 300	0 250	0 250
Coil 2 R	177.6	27.0	8.1	2.0	-1.2	-2.8	-4.1	-4.8
	140.0 230.0	0.0 51.0	-10.0 26.0	-15.0 15.0	-18.0 10.0	-18.0 7.0	-18.0 5.0	-18.0 3.0
Coil 2 Q	213.5	99.4	65.0	49.8	41.4	36.1	32.5	30.3
	-200.0 1000.0	0.0 360.0	0.0 220.0	0.0 180.0	0.0 130.0	0.0 110.0	0.0 100.0	0.0 90.0
Coil 3 R	45.0	6.3	1.3	-0.7	-1.4	-1.9	-2.0	-2.9
	37.0 62.0	0.0 12.0	-3.0 6.0	-4.0 4.0	-6.0 2.0	-5.0 1.0	-6.0 1.0	-6.0 1.0
Coil 3 Q	27.8	18.1	15.4	15.0	15.6	16.8	18.2	19.5
	-140.0 280.0	-40.0 100.0	-20.0 70.0	-10.0 80.0	-10.0 50.0	-10.0 50.0	-10.0 50.0	-10.0 50.0
Coil 4 R	10.01	1.45	-0.05	-0.42	-0.62	-0.78	-1.02	-0.97
	2.00 18.00	-3.00 6.00	-3.50 3.00	-3.90 2.00	-4.20 2.00	-4.50 2.00	-4.70 2.00	-5.00 2.00

Coil 4 Q	-11.32 -100.00 100.00	0.55 -30.00 50.00	4.17 -20.00 40.00	6.94 -10.00 40.00	9.58 -10.00 40.00	11.97 -10.00 45.00	14.38 -10.00 50.00	16.97 -10.00 60.00
Coil 5 R	1.98 -2.00 5.80	0.28 -3.20 2.40	-0.14 -4.50 3.10	-0.51 -4.70 3.20	-0.44 -4.80 3.20	-0.61 -5.00 3.30	-0.71 -5.20 3.40	-0.90 -5.40 3.50
Coil 5 Q	4.20 -80.00 70.00	3.96 -20.00 30.00	5.42 -20.00 30.00	7.28 -20.00 35.00	9.31 -20.00 45.00	11.43 -20.00 50.00	13.60 -20.00 60.00	15.73 -30.00 70.00
Coil 6 R	-1.35 -4.80 1.00	-0.14 -6.70 3.80	-0.15 -6.50 4.90	-0.47 -6.90 5.40	-0.50 -7.30 5.80	-0.54 -7.50 6.00	-0.70 -7.70 6.10	-0.60 -7.90 6.30
Coil 6 Q	-14.30 -30.00 30.00	-3.45 -20.00 25.00	0.38 -20.00 35.00	3.46 -30.00 50.00	6.21 -35.00 60.00	8.83 -40.00 70.00	11.03 -50.00 80.00	13.48 -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	0.996 0.900 1.100	0.995 0.900 1.100	0.992 0.900 1.100	0.993 0.900 1.100	0.992 0.900 1.100	0.991 0.900 1.100	0.990 0.900 1.100	0.991 0.900 1.100
Coil 0 P	0.192 -2.000 2.000	0.159 -2.000 2.000	0.228 -2.000 2.000	0.201 -2.000 2.000	0.184 -2.000 2.000	0.159 -2.000 2.000	0.163 -2.000 2.000	0.136 -2.000 2.000
Coil 1 M	0.992 0.900 1.100	0.992 0.900 1.100	0.989 0.900 1.100	0.989 0.900 1.100	0.988 0.900 1.100	0.987 0.900 1.100	0.987 0.900 1.100	0.987 0.900 1.100
Coil 1 P	0.117 -2.000 2.000	0.133 -2.000 2.000	0.211 -2.000 2.000	0.205 -2.000 2.000	0.189 -2.000 2.000	0.165 -2.000 2.000	0.127 -2.000 2.000	0.122 -2.000 2.000
Coil 2 M	0.992 0.900 1.100	0.989 0.900 1.100	0.989 0.900 1.100	0.989 0.900 1.100	0.988 0.900 1.100	0.988 0.900 1.100	0.989 0.900 1.100	0.988 0.900 1.100
Coil 2 P	0.156 -2.000 2.000	0.044 -2.000 2.000	0.014 -2.000 2.000	0.013 -2.000 2.000	0.009 -2.000 2.000	-0.007 -2.000 2.000	0.031 -2.000 2.000	0.009 -2.000 2.000
Coil 3 M	0.996 0.900 1.100	0.995 0.900 1.100	0.995 0.900 1.100	0.994 0.900 1.100	0.994 0.900 1.100	0.994 0.900 1.100	0.994 0.900 1.100	0.995 0.900 1.100
Coil 3 P	0.136 -2.000 2.000	0.012 -2.000 2.000	-0.016 -2.000 2.000	-0.040 -2.000 2.000	-0.079 -2.000 2.000	-0.135 -2.000 2.000	-0.153 -2.000 2.000	-0.172 -2.000 2.000
Coil 4 M	1.006 0.900 1.100	1.005 0.900 1.100	1.006 0.900 1.100	1.006 0.900 1.100	1.006 0.900 1.100	1.006 0.900 1.100	1.006 0.900 1.100	1.005 0.900 1.100
Coil 4 P	0.151 -2.000 2.000	0.012 -2.000 2.000	-0.030 -2.000 2.000	-0.050 -2.000 2.000	-0.039 -2.000 2.000	-0.065 -2.000 2.000	-0.048 -2.000 2.000	-0.118 -2.000 2.000
Coil 5 M	1.015 0.900 1.100	1.015 0.900 1.100	1.016 0.900 1.100	1.015 0.900 1.100	1.015 0.900 1.100	1.017 0.900 1.100	1.016 0.900 1.100	1.016 0.900 1.100
Coil 5 P	-0.020 -2.000 2.000	-0.211 -2.000 2.000	-0.303 -2.000 2.000	-0.398 -2.000 2.000	-0.510 -2.000 2.000	-0.652 -2.000 2.000	-0.672 -2.000 2.000	-0.782 -2.000 2.000
Coil 6 M	1.009 0.900 1.100	1.011 0.900 1.100	1.011 0.900 1.100	1.010 0.900 1.100	1.011 0.900 1.100	1.017 0.900 1.100	1.017 0.900 1.100	1.015 0.900 1.100
Coil 6 P	-0.047 -2.000 2.000	-0.069 -2.000 2.000	-0.207 -2.000 2.000	-0.208 -2.000 2.000	-0.354 -2.000 2.000	-0.482 -2.000 2.000	-0.472 -2.000 2.000	-0.624 -2.000 2.000

PARMS TCID 0 TCID 1 Cal Temp T Factor
(degC)

IDs 1.618 0.817 14.6 1.04

HDIL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1515MA 11997966 DATE/TIME PERFORMED: Tue Mar 6 21:37:59 2012 DAYS SINCE CAL: 60

UNIT #: 3854SA 008672

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

Coil 0 R	-0.006 -0.200 0.200	0.001 -0.100 0.100	0.003 -0.100 0.100	-0.001 -0.100 0.100	-0.003 -0.100 0.100	-0.002 -0.100 0.100	-0.003 -0.100 0.100	-0.003 -0.100 0.100
Coil 0 Q	0.006 -1.000 1.000	0.006 -0.200 0.200	0.005 -0.100 0.100	0.004 -0.100 0.100	0.002 -0.100 0.100	0.001 -0.100 0.100	-0.001 -0.100 0.100	-0.002 -0.100 0.100
Coil 1 R	0.000 -0.200 0.200	0.006 -0.100 0.100	0.005 -0.100 0.100	0.003 -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 1 Q	0.002 -1.000 1.000	0.008 -0.200 0.200	0.005 -0.100 0.100	0.006 -0.100 0.100	0.006 -0.100 0.100	0.003 -0.100 0.100	-0.003 -0.100 0.100	-0.004 -0.100 0.100
Coil 2 R	0.011 -0.200 0.200	0.003 -0.100 0.100	-0.001 -0.100 0.100	-0.003 -0.100 0.100	-0.002 -0.100 0.100	-0.002 -0.100 0.100	0.002 -0.100 0.100	0.005 -0.100 0.100
Coil 2 Q	-0.003 -1.000 1.000	0.001 -0.200 0.200	0.003 -0.100 0.100	0.002 -0.100 0.100	-0.005 -0.100 0.100	-0.004 -0.100 0.100	-0.004 -0.100 0.100	-0.002 -0.100 0.100
Coil 3 R	0.009 -0.100 0.100	0.006 -0.100 0.100	0.006 -0.100 0.100	0.004 -0.100 0.100	0.002 -0.100 0.100	-0.006 -0.100 0.100	-0.004 -0.100 0.100	0.002 -0.100 0.100
Coil 3 Q	-0.010 -0.500 0.500	-0.005 -0.200 0.200	0.001 -0.100 0.100	0.004 -0.100 0.100	0.004 -0.100 0.100	0.003 -0.100 0.100	-0.004 -0.100 0.100	-0.007 -0.100 0.100
Coil 4 R	-0.009 -0.200 0.200	-0.002 -0.200 0.200	-0.000 -0.200 0.200	0.000 -0.200 0.200	-0.007 -0.200 0.200	0.001 -0.200 0.200	-0.001 -0.200 0.200	-0.002 -0.200 0.200
Coil 4 Q	0.006 -1.000 1.000	0.009 -0.400 0.400	0.007 -0.200 0.200	0.001 -0.200 0.200	-0.003 -0.200 0.200	0.002 -0.200 0.200	-0.007 -0.200 0.200	0.003 -0.200 0.200
Coil 5 R	-0.010 -0.400 0.400	0.008 -0.400 0.400	0.009 -0.400 0.400	0.006 -0.400 0.400	0.002 -0.400 0.400	0.008 -0.400 0.400	-0.005 -0.400 0.400	-0.010 -0.400 0.400
Coil 5 Q	-0.007 -2.000 2.000	0.003 -0.800 0.800	-0.007 -0.400 0.400	-0.003 -0.400 0.400	0.002 -0.400 0.400	0.006 -0.400 0.400	0.011 -0.400 0.400	0.009 -0.400 0.400
Coil 6 R	0.012 -1.000 1.000	0.011 -1.000 1.000	-0.005 -1.000 1.000	0.003 -1.000 1.000	-0.017 -1.000 1.000	0.005 -1.000 1.000	0.003 -1.000 1.000	0.013 -1.000 1.000
Coil 6 Q	-0.016 -5.000 5.000	-0.004 -2.000 2.000	0.002 -1.000 1.000	0.003 -1.000 1.000	0.014 -1.000 1.000	0.002 -1.000 1.000	-0.002 -1.000 1.000	-0.005 -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	126.92 100.00 150.00	125.92 100.00 150.00	124.12 98.00 150.00	121.04 96.00 140.00	117.17 92.00 140.00	111.97 87.00 130.00	105.78 82.00 120.00	98.25 78.00 110.00
Coil 0 P	7.247 8.000 9.000	22.731 19.000 28.000	38.051 32.000 47.000	53.474 44.000 68.000	68.869 57.000 85.000	84.401 70.000 100.000	99.818 82.000 120.000	115.315 96.000 140.000
Coil 1 M	223.52 180.00 270.00	221.20 180.00 270.00	217.01 170.00 280.00	210.20 170.00 250.00	201.87 180.00 250.00	191.30 180.00 230.00	179.20 150.00 220.00	165.10 140.00 200.00
Coil 1 P	7.581 8.000 9.000	23.730 19.000 28.000	39.672 32.000 48.000	55.574 45.000 67.000	71.364 57.000 86.000	87.152 70.000 110.000	102.718 83.000 120.000	118.281 98.000 140.000
Coil 2 M	443.21 380.00 540.00	438.47 380.00 540.00	429.85 350.00 530.00	416.37 340.00 510.00	399.72 330.00 500.00	378.69 310.00 470.00	354.75 300.00 440.00	327.15 270.00 410.00
Coil 2 P	7.805 8.000 9.000	24.384 19.000 29.000	40.744 32.000 48.000	57.074 45.000 67.000	73.272 58.000 87.000	89.504 71.000 110.000	105.501 84.000 130.000	121.540 98.000 140.000
Coil 3 M	726.22 590.00 880.00	718.83 580.00 870.00	705.18 570.00 850.00	683.58 550.00 830.00	656.52 530.00 800.00	622.27 500.00 780.00	583.40 470.00 710.00	537.49 440.00 650.00
Coil 3 P	7.790 8.000 10.000	24.397 20.000 29.000	40.780 33.000 49.000	57.171 46.000 69.000	73.437 59.000 89.000	89.710 72.000 110.000	105.800 85.000 130.000	121.857 98.000 150.000
Coil 4 M	1157.3 900.0 1400.0	1147.0 900.0 1300.0	1128.5 900.0 1300.0	1098.1 850.0 1300.0	1059.8 800.0 1200.0	1009.1 800.0 1200.0	950.8 750.0 1100.0	879.5 700.0 1000.0
Coil 4 P	7.721 8.000 10.000	24.266 20.000 30.000	40.603 33.000 50.000	57.001 46.000 70.000	73.357 60.000 90.000	89.805 73.000 110.000	106.155 86.000 130.000	122.580 99.000 150.000
Coil 5 M	2319.6 1900.0 2800.0	2302.8 1800.0 2800.0	2270.7 1800.0 2700.0	2215.3 1800.0 2600.0	2144.2 1700.0 2500.0	2046.0 1600.0 2400.0	1929.5 1500.0 2200.0	1784.9 1400.0 2100.0
Coil 5 P	7.891 8.000 10.000	24.778 20.000 31.000	41.526 34.000 51.000	58.391 48.000 72.000	75.296 62.000 93.000	92.384 76.000 110.000	109.408 89.000 130.000	126.547 100.000 150.000
Coil 6 M	6054.3	5980.8	5845.8	5638.0	5382.1	5065.2	4717.9	4316.3

Coil 6 P

4700.0	7100.0	4700.0	7000.0	4800.0	8900.0	4400.0	8800.0	4200.0	8400.0	4000.0	8000.0	3700.0	5800.0	3400.0	5100.0
8.226	26.048	43.551	60.947	78.182	95.321	112.214	129.076								
7.000	10.000	22.000	32.000	38.000	54.000	51.000	78.000	66.000	98.000	80.000	120.000	94.000	140.000	110.000	180.000

HDIL AFTER LOG VERIFICATION SUMMARY

TOOL #: 1515MA 11997966 DATE/TIME PERFORMED: Wed Mar 7 01:04:58 2012 DAYS SINCE CAL: 60

UNIT #: 3854SA 008672

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

Coil 0 R	-0.006 -0.088 0.074	0.001 -0.059 0.061	0.003 -0.027 0.033	-0.002 -0.031 0.029	-0.005 -0.033 0.027	-0.003 -0.032 0.028	-0.004 -0.033 0.027	-0.005 -0.033 0.027
Coil 0 Q	0.007 -0.034 0.046	0.008 -0.114 0.126	0.005 -0.025 0.035	0.004 -0.028 0.034	0.003 -0.028 0.032	0.002 -0.029 0.031	-0.000 -0.031 0.029	-0.002 -0.032 0.028
Coil 1 R	0.001 -0.080 0.080	0.004 -0.044 0.056	0.003 -0.025 0.035	-0.001 -0.027 0.033	-0.003 -0.032 0.028	-0.006 -0.033 0.027	-0.007 -0.034 0.028	-0.004 -0.033 0.027
Coil 1 Q	0.004 -0.398 0.402	0.008 -0.092 0.106	0.005 -0.025 0.035	0.004 -0.024 0.038	0.006 -0.024 0.036	0.003 -0.027 0.033	-0.003 -0.033 0.027	-0.005 -0.034 0.028
Coil 2 R	0.010 -0.069 0.081	0.003 -0.027 0.033	-0.001 -0.031 0.029	-0.003 -0.033 0.027	-0.001 -0.032 0.028	-0.002 -0.032 0.028	0.001 -0.028 0.032	0.003 -0.025 0.035
Coil 2 Q	-0.004 -0.353 0.347	-0.001 -0.099 0.101	0.002 -0.027 0.033	0.001 -0.028 0.032	-0.002 -0.035 0.025	-0.006 -0.034 0.028	-0.003 -0.034 0.028	-0.004 -0.032 0.028
Coil 3 R	0.011 -0.031 0.049	0.007 -0.034 0.046	0.006 -0.034 0.046	0.003 -0.038 0.044	0.002 -0.038 0.042	-0.005 -0.046 0.034	-0.003 -0.044 0.038	0.001 -0.038 0.042
Coil 3 Q	-0.006 -0.210 0.190	-0.006 -0.085 0.075	0.004 -0.039 0.041	0.005 -0.038 0.044	0.006 -0.038 0.044	-0.000 -0.037 0.043	-0.008 -0.044 0.038	-0.007 -0.047 0.033
Coil 4 R	-0.012 -0.089 0.051	-0.003 -0.082 0.056	-0.002 -0.080 0.080	-0.005 -0.080 0.080	-0.005 -0.067 0.053	-0.001 -0.059 0.081	0.007 -0.081 0.069	-0.002 -0.082 0.058
Coil 4 Q	-0.003 -0.294 0.308	0.005 -0.091 0.109	0.002 -0.053 0.087	0.008 -0.069 0.081	-0.001 -0.063 0.057	-0.002 -0.058 0.082	-0.004 -0.087 0.063	0.001 -0.057 0.083
Coil 5 R	0.008 -0.130 0.110	0.008 -0.112 0.128	0.002 -0.111 0.129	0.004 -0.114 0.128	0.009 -0.118 0.122	0.011 -0.112 0.128	0.000 -0.125 0.115	-0.018 -0.130 0.110
Coil 5 Q	-0.009 -0.607 0.593	0.010 -0.247 0.253	0.002 -0.127 0.113	0.011 -0.123 0.117	-0.000 -0.118 0.122	0.008 -0.114 0.128	0.028 -0.109 0.131	0.002 -0.111 0.129
Coil 6 R	0.010 -0.288 0.312	0.012 -0.289 0.311	-0.016 -0.305 0.295	0.009 -0.297 0.303	0.010 -0.317 0.283	-0.012 -0.295 0.305	-0.020 -0.297 0.303	0.002 -0.287 0.313
Coil 6 Q	-0.016 -1.518 1.484	0.015 -0.604 0.596	0.033 -0.298 0.302	-0.004 -0.297 0.303	0.025 -0.298 0.314	-0.009 -0.298 0.302	-0.007 -0.302 0.298	-0.023 -0.305 0.295

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

Coil 0 M	126.86 124.38 129.46	125.84 123.40 128.44	123.95 121.64 126.80	120.82 118.82 123.48	116.80 114.82 119.51	111.49 109.73 114.21	105.12 103.87 107.90	97.60 98.29 100.28
Coil 0 P	7.267 4.247 10.247	22.803 19.731 25.731	38.186 35.051 41.051	53.638 50.474 58.474	69.064 66.889 71.889	84.612 81.401 87.401	100.030 96.818 102.818	115.487 112.315 118.315
Coil 1 M	223.45 219.06 227.99	221.10 218.78 225.63	216.69 212.67 221.35	209.86 205.99 214.40	201.29 197.83 205.90	190.46 187.47 195.12	178.17 175.82 182.79	164.01 161.79 168.40
Coil 1 P	7.602 4.581 10.581	23.807 20.730 26.730	39.799 36.872 42.872	55.749 52.574 58.574	71.570 68.384 74.384	87.358 84.152 90.152	102.918 99.718 105.718	118.431 115.281 121.281
Coil 2 M	443.14 434.34 452.07	438.30 429.70 447.24	429.40 421.28 438.45	415.80 408.04 424.89	398.57 391.73 407.72	377.19 371.12 386.27	352.74 347.85 361.84	324.95 320.81 333.70
Coil 2 P	7.824 4.806 10.806	24.462 21.384 27.384	40.867 37.744 43.744	57.241 54.074 60.074	73.466 70.272 76.272	89.682 86.504 92.504	105.720 102.501 108.501	121.727 118.540 124.540

Coil 3 M	725.89 711.89 740.74	718.31 704.45 733.20	704.13 691.05 719.25	682.41 669.91 697.25	654.43 643.39 669.65	619.64 609.83 634.72	579.67 571.73 595.07	533.62 528.74 548.24
Coil 3 P	7.810 4.790 10.790	24.466 21.397 27.397	40.901 37.780 43.780	57.326 54.171 60.171	73.634 70.437 76.437	89.883 86.710 92.710	105.995 102.800 108.800	121.958 118.857 124.857
Coil 4 M	1157.0 1134.1 1180.4	1146.5 1124.1 1170.0	1127.1 1105.9 1151.1	1096.3 1078.1 1120.1	1056.6 1038.8 1081.0	1005.0 988.9 1029.3	945.2 931.8 969.8	873.4 861.9 887.1
Coil 4 P	7.749 4.721 10.721	24.338 21.268 27.268	40.722 37.603 43.603	57.159 54.001 60.001	73.548 70.357 76.357	89.987 86.805 92.805	106.348 103.155 109.155	122.730 119.580 125.580
Coil 5 M	2319.9 2273.2 2368.0	2302.5 2258.8 2348.9	2268.6 2225.3 2316.1	2212.7 2171.0 2259.8	2138.7 2101.3 2187.1	2038.6 2005.0 2068.9	1918.7 1890.9 1968.1	1773.2 1749.2 1820.8
Coil 5 P	7.920 4.891 10.891	24.853 21.778 27.778	41.646 38.526 44.526	58.560 55.391 61.391	75.490 72.298 78.298	92.573 89.384 95.384	109.609 106.408 112.408	126.701 123.547 129.547
Coil 6 M	6052.6 5933.2 6175.4	5977.7 5881.2 6100.5	5838.5 5728.9 5962.7	5628.6 5525.3 5750.8	5366.4 5274.5 5489.8	5043.7 4963.9 5168.5	4688.3 4623.6 4812.3	4286.1 4229.9 4402.6
Coil 6 P	8.254 5.228 11.228	26.123 23.048 29.048	43.673 40.551 46.551	61.104 57.947 63.947	78.370 75.182 81.182	95.505 92.321 98.321	112.418 109.214 115.214	129.224 126.078 132.078



**BAKER
HUGHES**

ECLIPS

FIELD	SLATER RIVER		API NO:
PROVINCE	NORTHWEST TERRITORIES		
LOCATION:	ELEVATIONS:		UID:
	KB	183.2 M	300H84500126000
	DF		LICENSE:
	GL	178.0 M	482
DATE		06-MAR-2012	

SURF LOC:
LAT 64 53' 28.5"N LONG 128 11' 20.3"W
BH LOC. LSD:
LAT 64 53' 28.5"N LONG 128 11' 20.3"W