



Baker Atlas

FILE NO:

COMPANY

VULCAN MINERALS INC

API NO:

WELL

FIELD

PROVINCE

HURICANE #1 (BACKSTRETCH #2)  
ST GEORGES BAY  
NEWFOUNDLAND

Ver. 3.87

LOCATION:

LIC: 2005-116-01-03

OTHER SERVICES

LAT

LONG

ZDL/CN/DAL/GR

PERMANENT DATUM  
LOG MEASURED FROM  
DRILL MEAS. FROM

GL

ELEVATION

135 M

3.3 M ABOVE P.D.

ELEVATIONS:  
KB 3.3 M  
DF  
GL 135 M

DATE

10-NOV-2005

RUN

TRIP

1

1

SERVICE ORDER

201776

DEPTH DRILLER

876.0 M

DEPTH LOGGER

875.4 M

BOTTOM LOGGED INTERVAL

871.2 M

TOP LOGGED INTERVAL

245.7 M

CASING DRILLER

177.8 MM

245.5 M

CASING LOGGER

245.7 M

BIT SIZE

155.0 MM

TYPE OF FLUID IN HOLE

H2O

DENSITY

N/A

N/A

PH

N/A

N/A

SOURCE OF SAMPLE

CIRCULATION

RM AT MEAS. TEMP.

2.10 OHMM

2.20 DEGC

RMF AT MEAS. TEMP.

1.664 OHMM

1.13 DEGC

RMC AT MEAS. TEMP.

2.603 OHMM

1.56 DEGC

SOURCE OF RMF

RMC

MEASURED

RM AT BHT

2.063 OHMM

1.290 DEGC

TIME SINCE CIRCULATION

N/A

MAX. RECORDED TEMP.

10.36 DEGC

EQUIP. NO.

LOCATION

HSL 8616

SARNAIA

RECORDED BY

D. IRONSIDE

WITNESSED BY

KARLA 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
155 MM		

#### CASING RECORD

SIZE	WEIGHT	GRADE	FROM	TO
177.8 MM			0.0 M	245. M

#### REMARKS

RUN 1 TRIP 1 :

TIME STOP CIRCULATING:

MAXIMUM DEVIATION 5 DEGREES AT METRES.

HDIL/GR RUN IN COMBINATION.

TWO REPEATS LOGGED AND PRESENTED.

BOREHOLE AND TEMPERATURE CORRECTIONS HAVE BEEN APPLIED TO HDIL DATA.

HDIL RECORDED WITH AND CORRECTED TO 1.5 INCH (38MM) STANDOFF.

\*\*\*\*\*

TRUE RESOLUTION - QUALITY PLOT: DISPLAYS THE TRUE RESOLUTION MATCHED (TRF)

CURVES WITH 10", 20", 30", 60", 90", 120" MEDIAN DEPTH OF INVESTIGATION.

THEIR VERTICAL RESOLUTION DIFFERS FROM CURVE TO CURVE AS IT DEPENDS ON THE

DEPTH OF INVESTIGATION (DOI) - VARYING BETWEEN 1.0 AND 2.0 TIMES THE DOI.

THESE TRF CURVES PROVIDE AN EXCELLENT QUALITY CHECK AND SHOULD BE EXAMINED

WHenever UNEXPLAINED SPIKES OR ANOMALIES APPEAR ON THE MAIN VERTICAL RESOLUTION

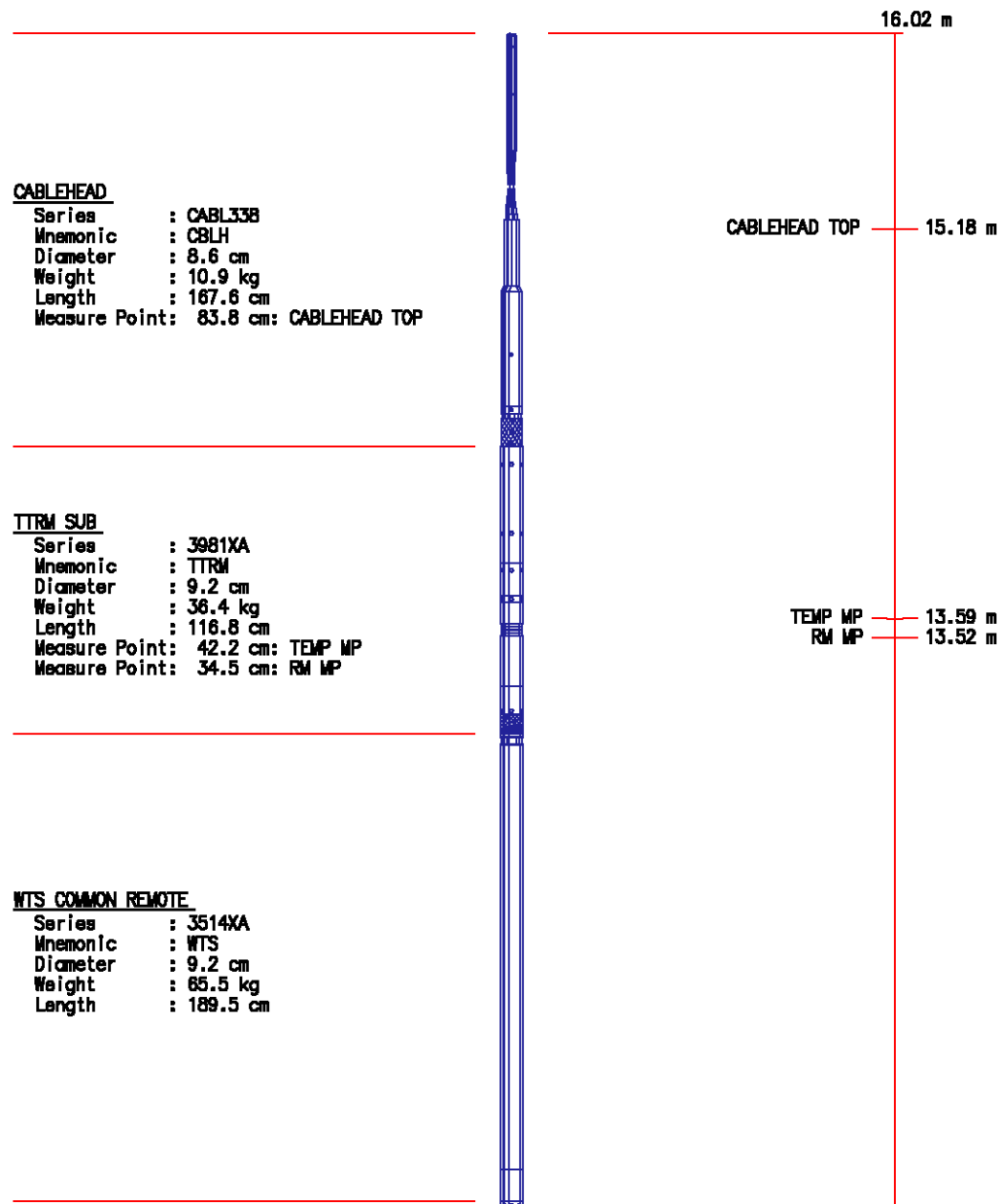
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### EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	TTRM	3981XA	179328	FREE
1	1	COM REM	3514XA	153394	FREE
1	1	DGR	1329XA	153172	FREE
1	1	KNJT	3923XA	186276	FREE
1	1	HDIL E	1515EA	177896	38MM STANDOFF
1	1	HDIL M	1515MA	167593	38MM STANDOFF

## INSTRUMENT CONFIGURATION

Source File: /dat1a/pass/vul\_hur2/hdil-tdg



#### DIGITAL SPECTRALOG

Series : 1329XA  
Mnemonic : DSL  
Diameter : 9.2 cm  
Weight : 64.5 kg  
Length : 222.8 cm  
Measure Point: 48.8 cm: GR MP

GR MP — 9.54 m

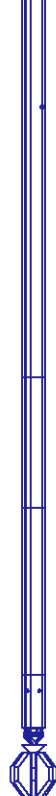
#### KNUCKLE JOINT

Series : 3923XA  
Mnemonic : KNJT  
Diameter : 8.6 cm  
Weight : 21.8 kg  
Length : 70.9 cm

#### HIGH DEFINITION INDUCTION TOOL

Series : 1515XA  
Mnemonic : HDIL  
Diameter : 9.2 cm  
Weight : 200.5 kg  
Length : 827.0 cm  
Measure Point: 423.9 cm: SP MP  
Measure Point: 226.8 cm: XMTR MP

SP MP — 4.31 m



XMTR MP 2.34 m

BULL PLUG 3 1/8

0.00 m

TOTAL LENGTH: 16.22 m  
TOTAL WEIGHT: 401.4 kg  
MAX DIAMETER: 16.2 cm

## MAIN PASS

ECLIPS 5.01 Dec 17, 2003  
Updates: 1,2,3,32

Pcrplt /main/59

Cplot 7.09  
Pdf\_Cpp /main/16

Thu Nov 10 00:41:50 2005  
Fileview 4.67

### PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pass/vul\_hur2/1777Jx02.prm  
LOGGING MODE: DEPTH DIRECTION: UP  
TOP DEPTH: 215.417 m BOTTOM DEPTH: 875.690 m

#### SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CHT	FILTER ( )	medium (1)		TOP	BOTTOM
TTRM	FILTER ( )	medium (1)		"	"
	FILTER (.h)	medium (1)		"	"
	FILTER (.l)	medium (1)		"	"
Y AXIS CALIPER	FILTER ( )	light (2)		"	"
TENSION	FILTER ( )	medium (1)		"	"
GR	FILTER ( )	medium (1)		"	"
SP-SPDH	FILTER ( )	medium (1)		"	"

#### BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	114.300	mm	TOP	BOTTOM
BIT SIZE	BIT SIZE	155.000	mm	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (mbh*)	USE FIXED SIZE		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (mbh*)	155.000	mm	"	"
MUD VALUES SOURCE	MUD SOURCE (UDU)	TOOL MEASURED		"	"

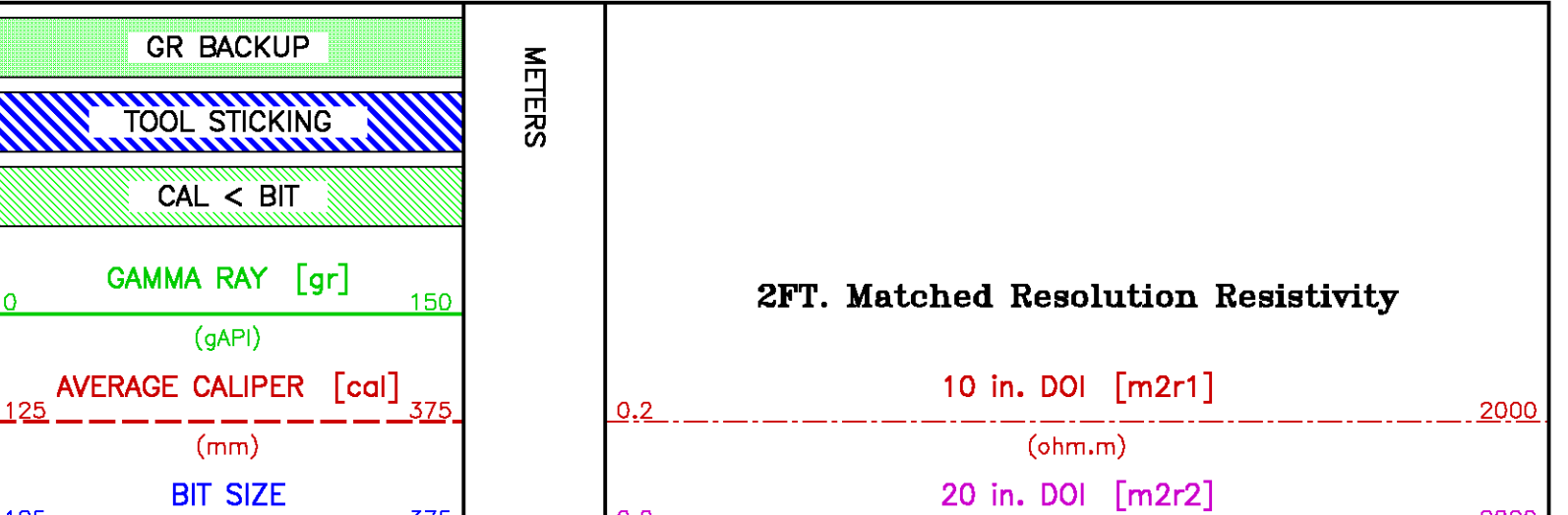
MUD VALUES SOURCE	Rmud SOURCE (HDIL)	TOOL MEASURED			
MUD VALUES	MUD SAMPLE TEMP	23.9	degC	''	''
	MUD SAMPLE RES	1.000	ohm.m	''	''
	MUD REFERENCE TEMP	23.9	degC	''	''
	TEMP GRADIENT	2.187	0.01 degC/m	''	''

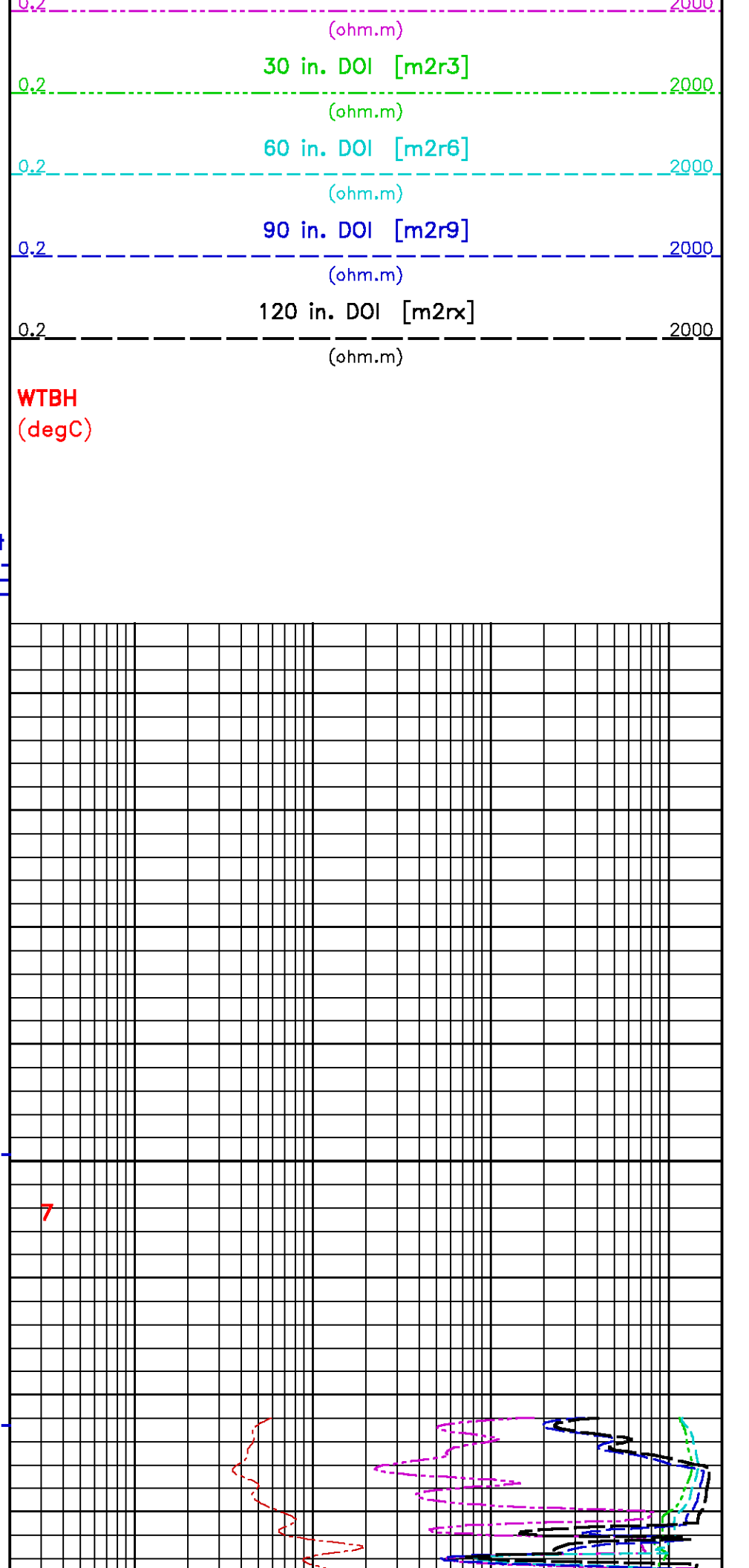
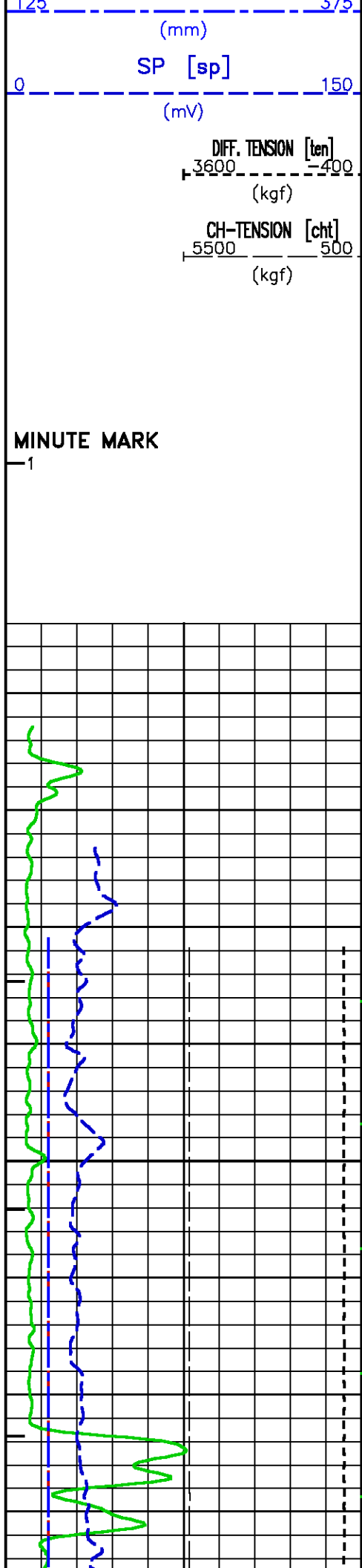
HDIL PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
HDIL TEMPERATURE CORRECTION	TEMP CORR SOURCE	USE RXTEMP		TOP	BOTTOM
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		''	''
	ABC to CALCULATE	STANDOFF		''	''
	STANDOFF	38.10	mm	''	''
	TOOL POSITION	ECCENTERED		''	''
	Rmud MULTIPLIER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

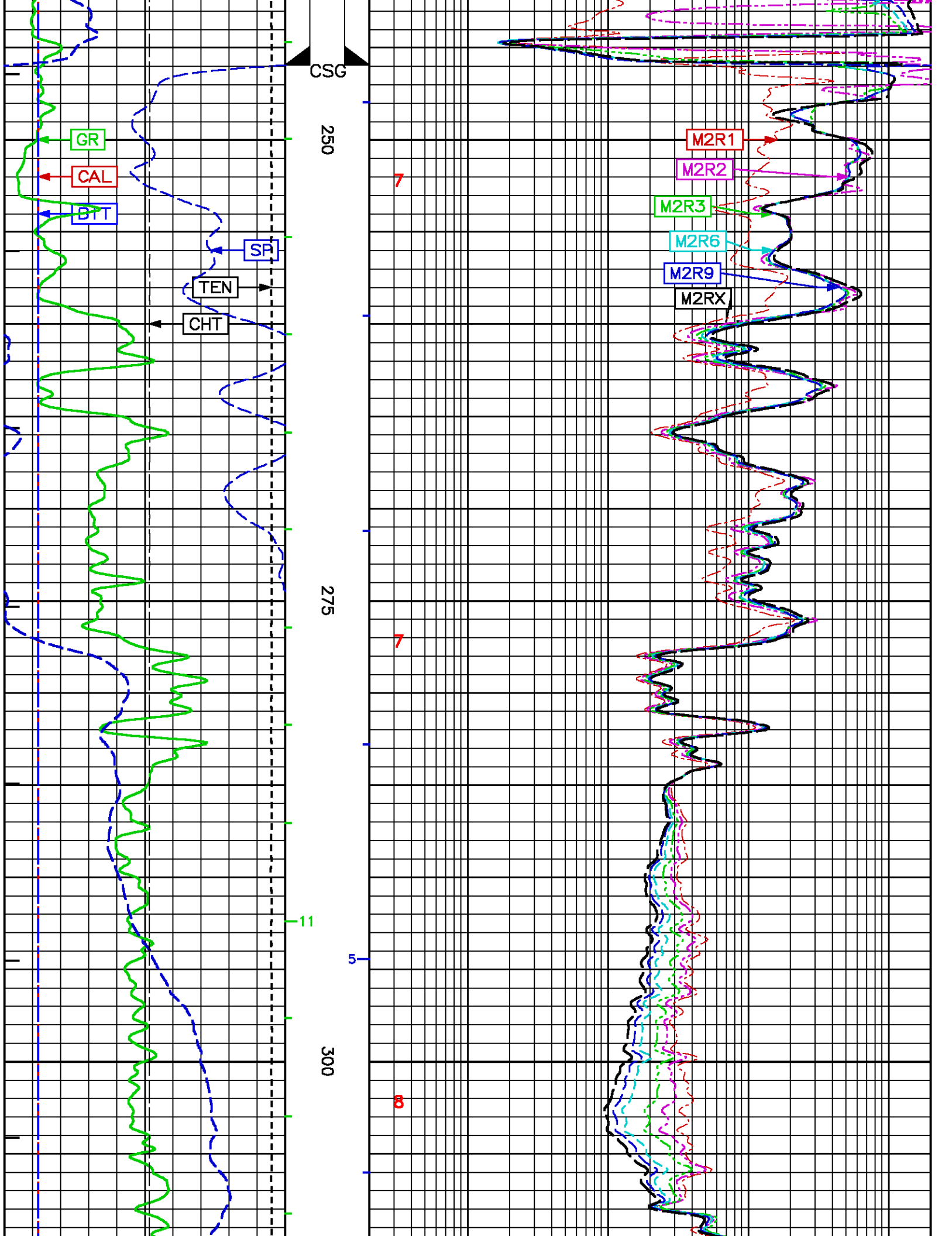
CURVE DESCRIPTION REPORT				
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION	
F1:BIT	BIT	Nov 9 23:19:14 2005	BIT SIZE	
F1:BVOL	BVOL	Nov 9 23:19:14 2005	BOREHOLE VOLUME	
F1:CAL	CAL	Nov 9 23:19:14 2005	CALIPER	
F1:CHT	CHT	Nov 9 23:19:14 2005	CABLE HEAD TENSION	
F1:CVOL	CVOL	Nov 9 23:19:14 2005	CEMENT VOLUME	
F1:DEPTH	MATCH_2_RES_DAT	Nov 9 23:19:14 2005	SYSTEM DEPTH	
F1:GR	GR	Nov 9 23:19:14 2005	GAMMA RAY	
F1:M2R1	M2R1	Nov 9 23:19:14 2005	VERT RESOLUTION MATCHED (2 FT)	
F1:M2R2	M2R2	Nov 9 23:19:14 2005	VERT RESOLUTION MATCHED (2 FT)	
F1:M2R3	M2R3	Nov 9 23:19:14 2005	VERT RESOLUTION MATCHED (2 FT)	
F1:M2R6	M2R6	Nov 9 23:19:14 2005	VERT RESOLUTION MATCHED (2 FT)	
F1:M2R9	M2R9	Nov 9 23:19:14 2005	VERT RESOLUTION MATCHED (2 FT)	
F1:M2RX	M2RX	Nov 9 23:19:14 2005	VERT RESOLUTION MATCHED (2 FT)	
F1:MMRK	MMRK	Nov 9 23:19:14 2005	MINUTE MARK	
F1:SP	SP	Nov 9 23:19:14 2005	SPONTANEOUS POTENTIAL	
F1:TEN	TEN	Nov 9 23:19:14 2005	DIFFERENTIAL TENSION	
F1:WTBH		Nov 9 23:19:14 2005	TEMPERATURE OF THE BOREHOLE	

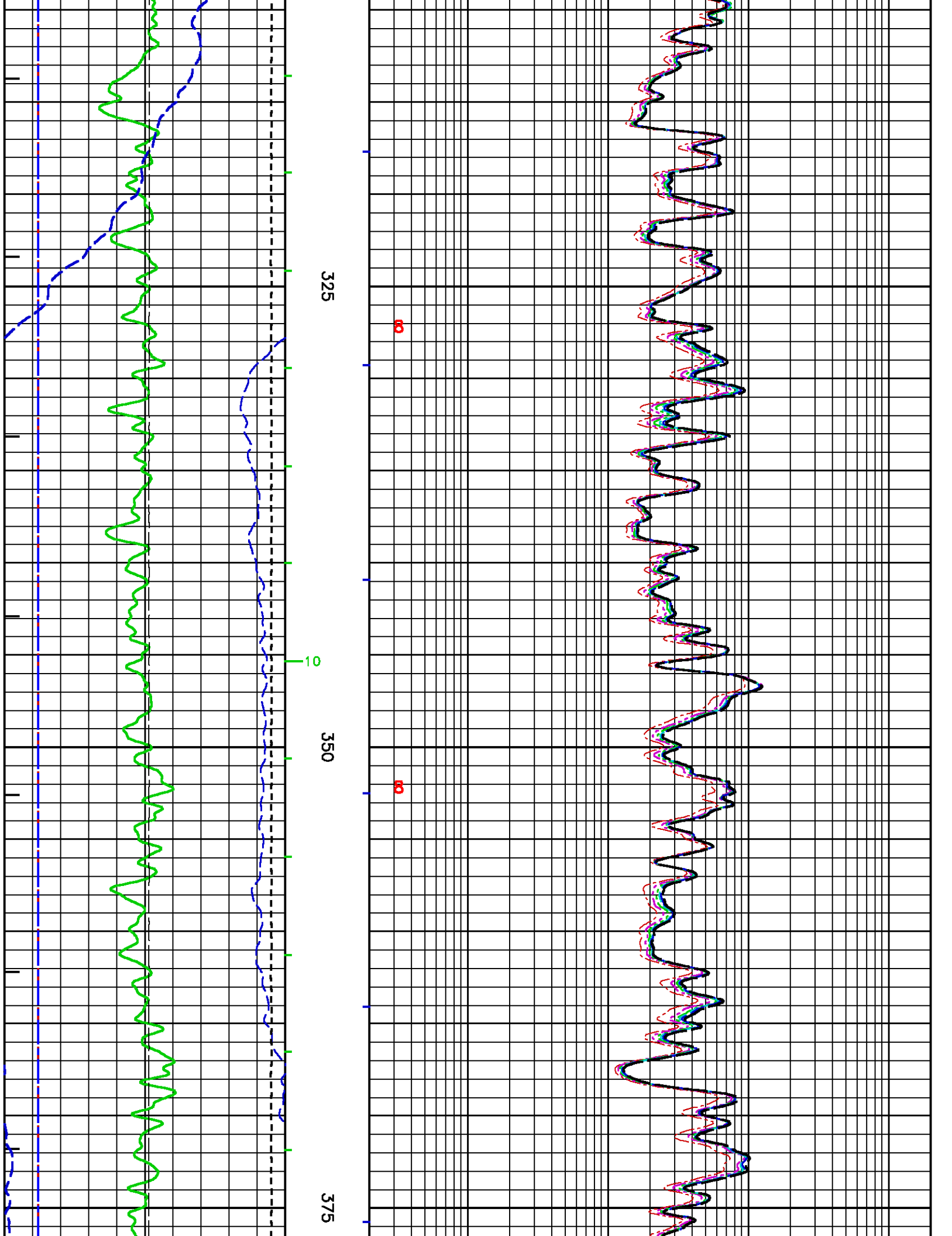
CURVE MEASURE POINT OFFSET							
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	GR	9.45	M2R3	2.44	M2RX	2.44
CAL	0.00	M2R1	2.44	M2R6	2.44	SP	4.27
CHT	0.00	M2R2	2.44	M2R9	2.44	TEN	0.00

Presentation	: cpu1:/dat1a/pass/vul_hur2/hdil_main.pdf [1:240 Scale]
Plot Interval	: 202.082 – 875.69 Meters
Data File 1	: F1 : cpu1:/dat1a/pass/vul_hur2/1777Jx02.xtf
Created On	: Nov 9 23:19:14 2005
Company	: VULCAN MINERALS INC
Well	: ST GEORGE
Field	: ST GEORGE
File Interval	: 202.082 – 875.69 Meters
Oct	: 1777Jx

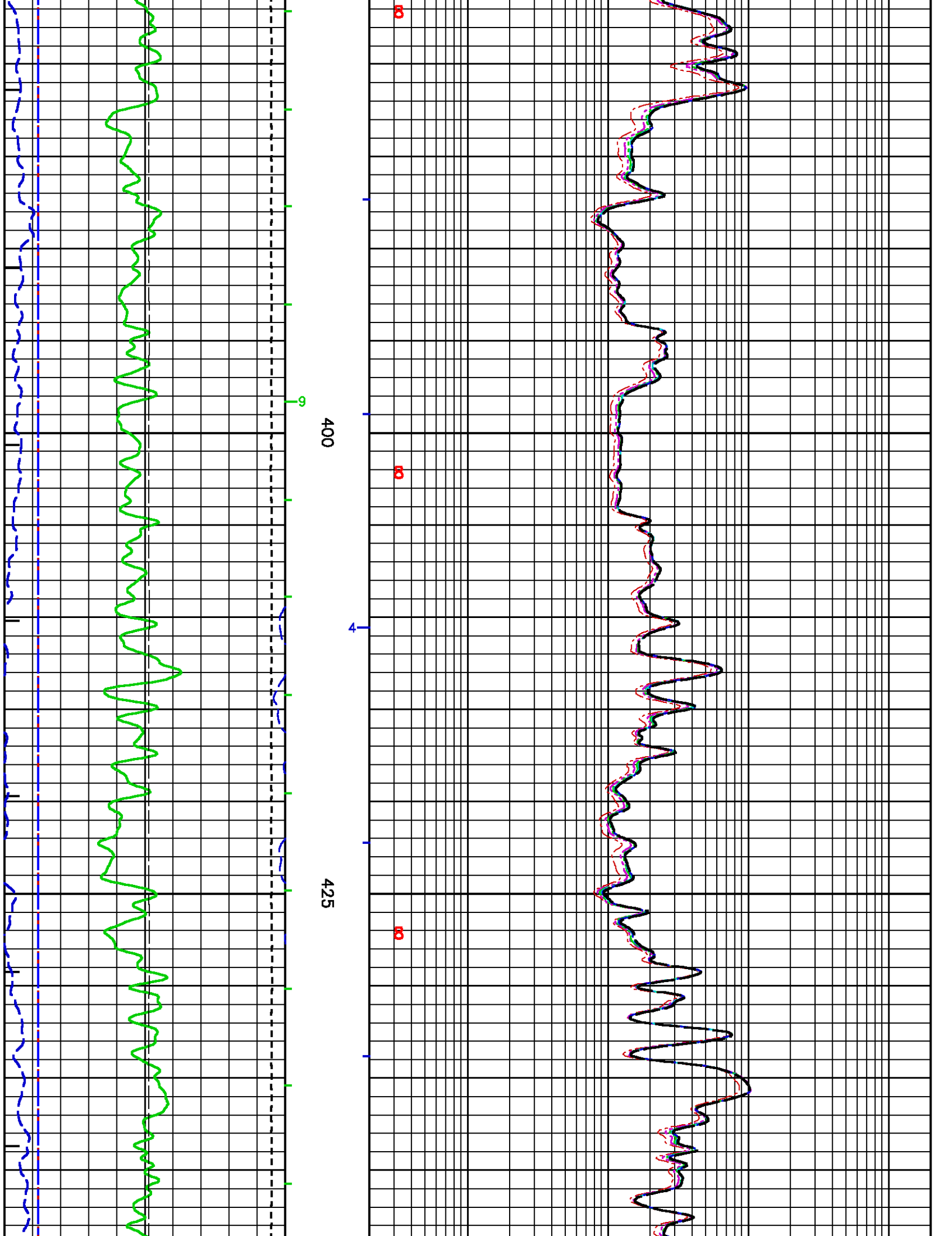


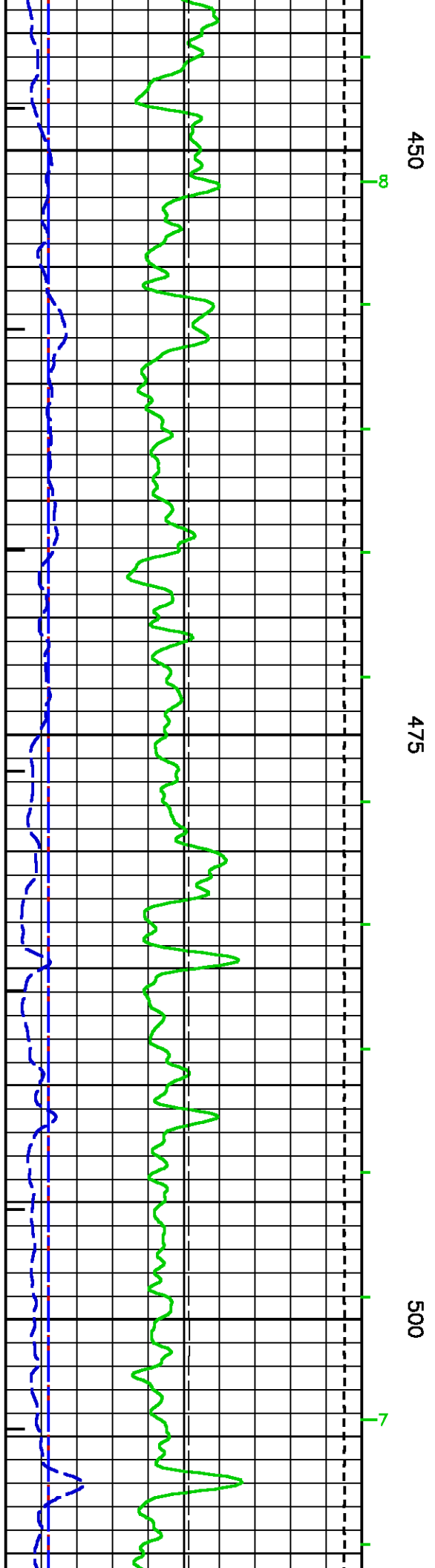
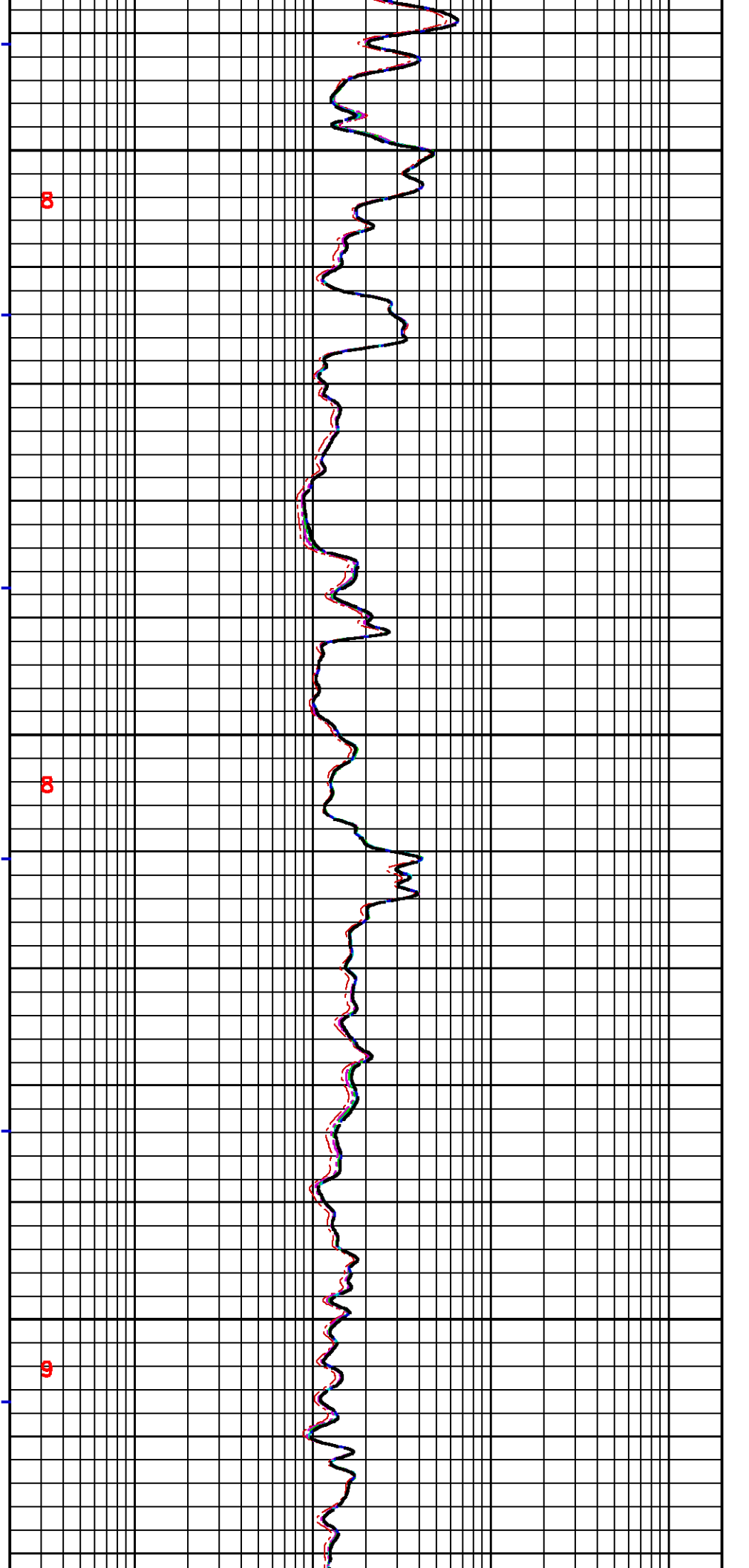


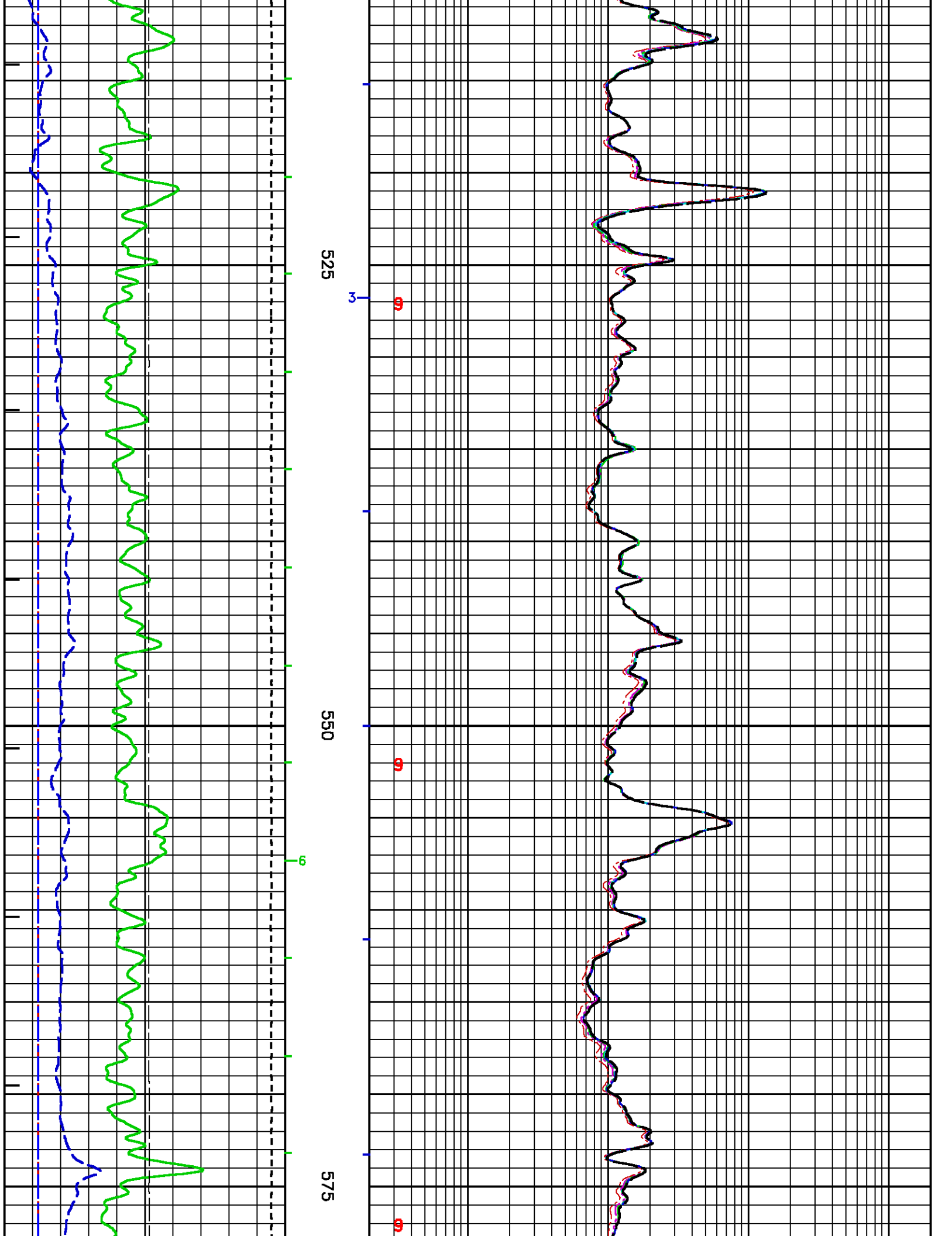


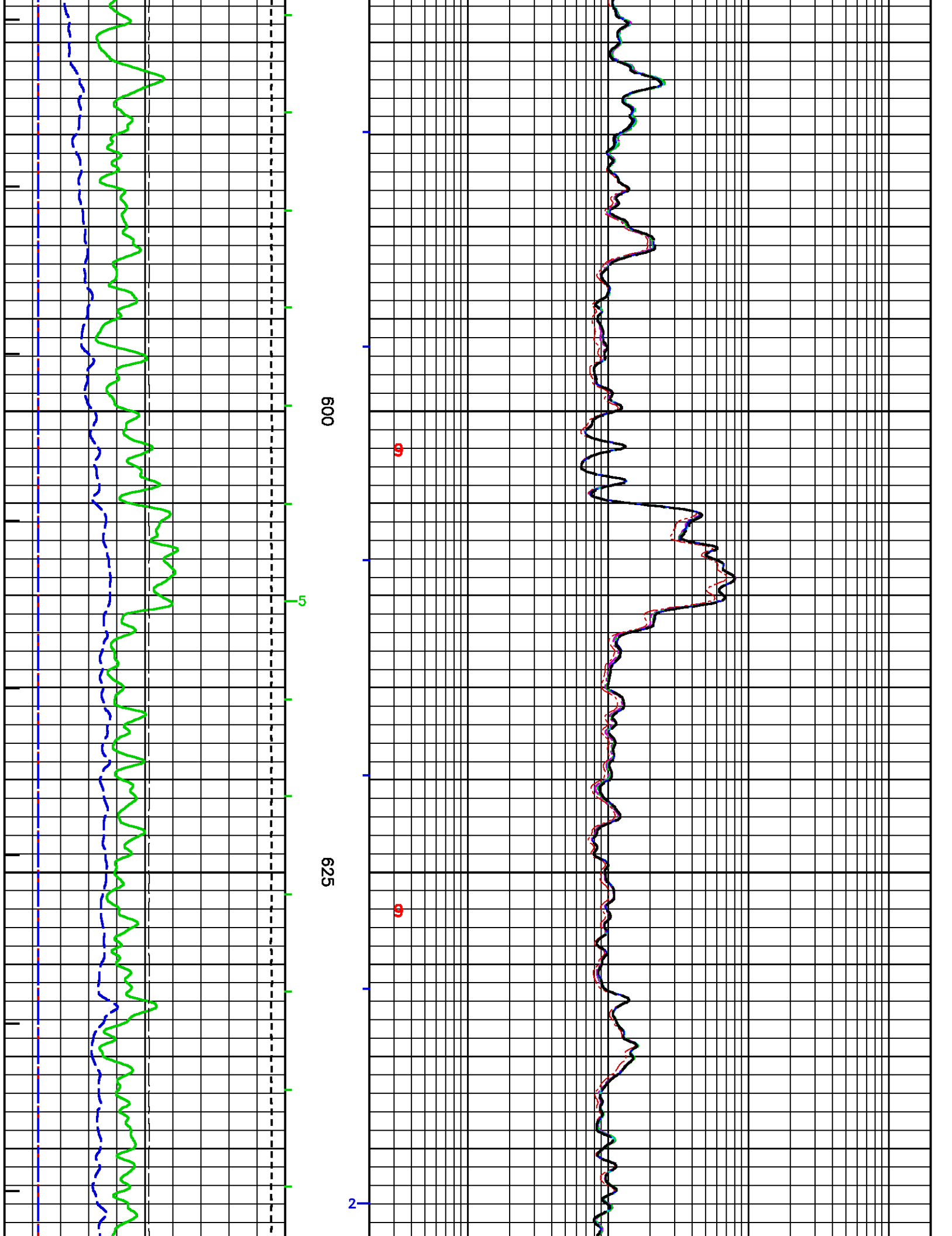


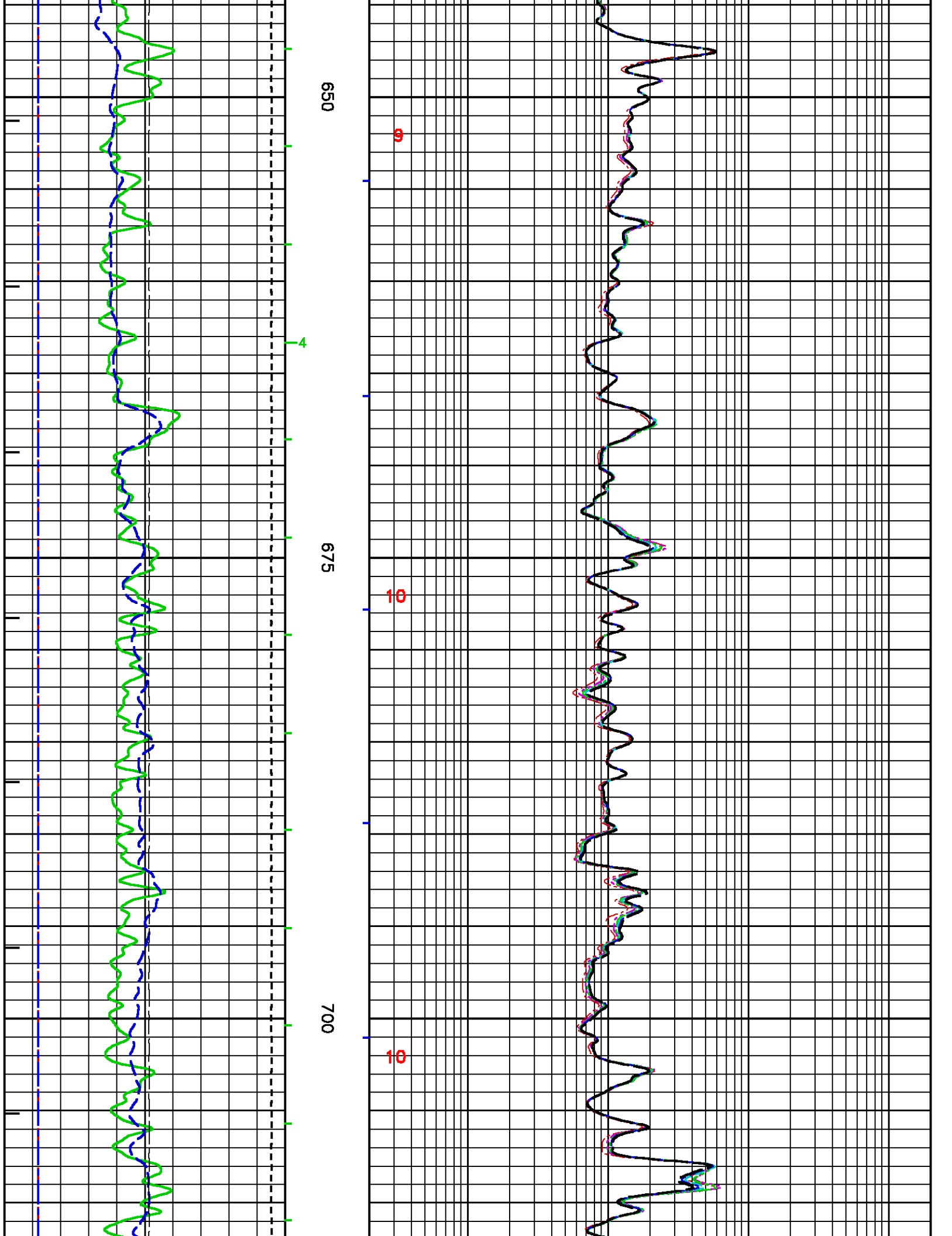


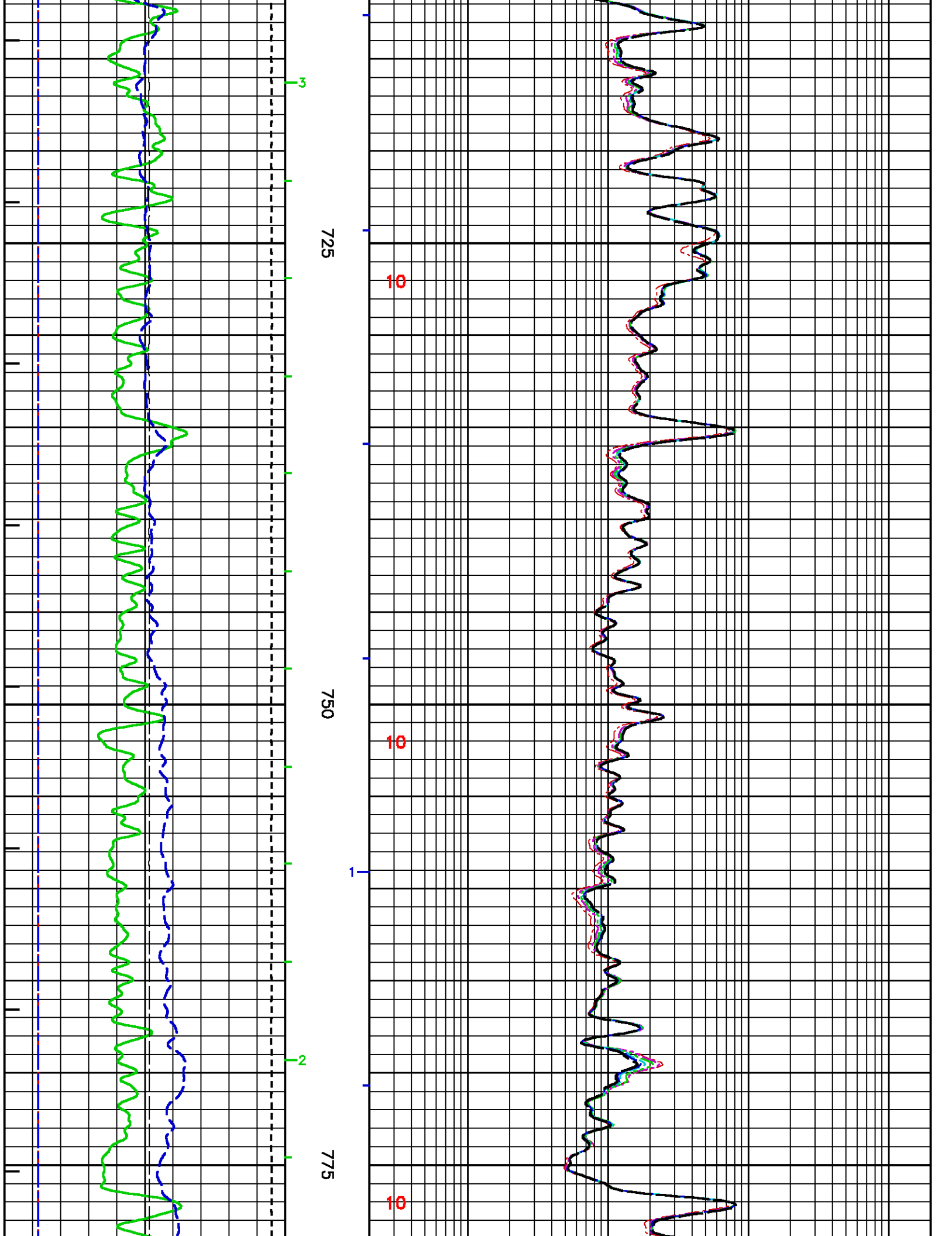


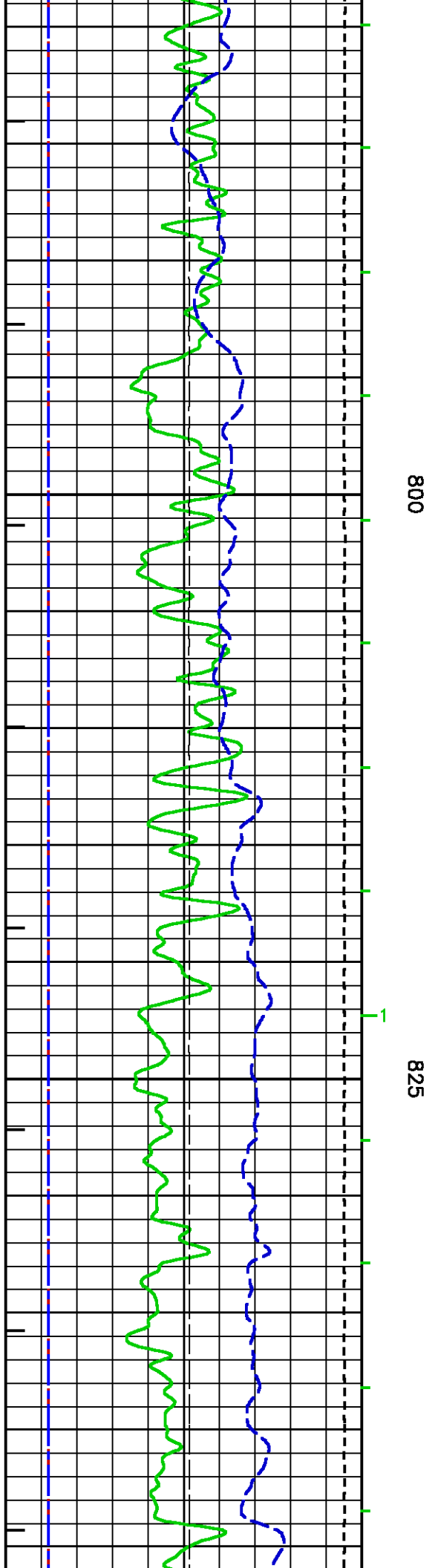
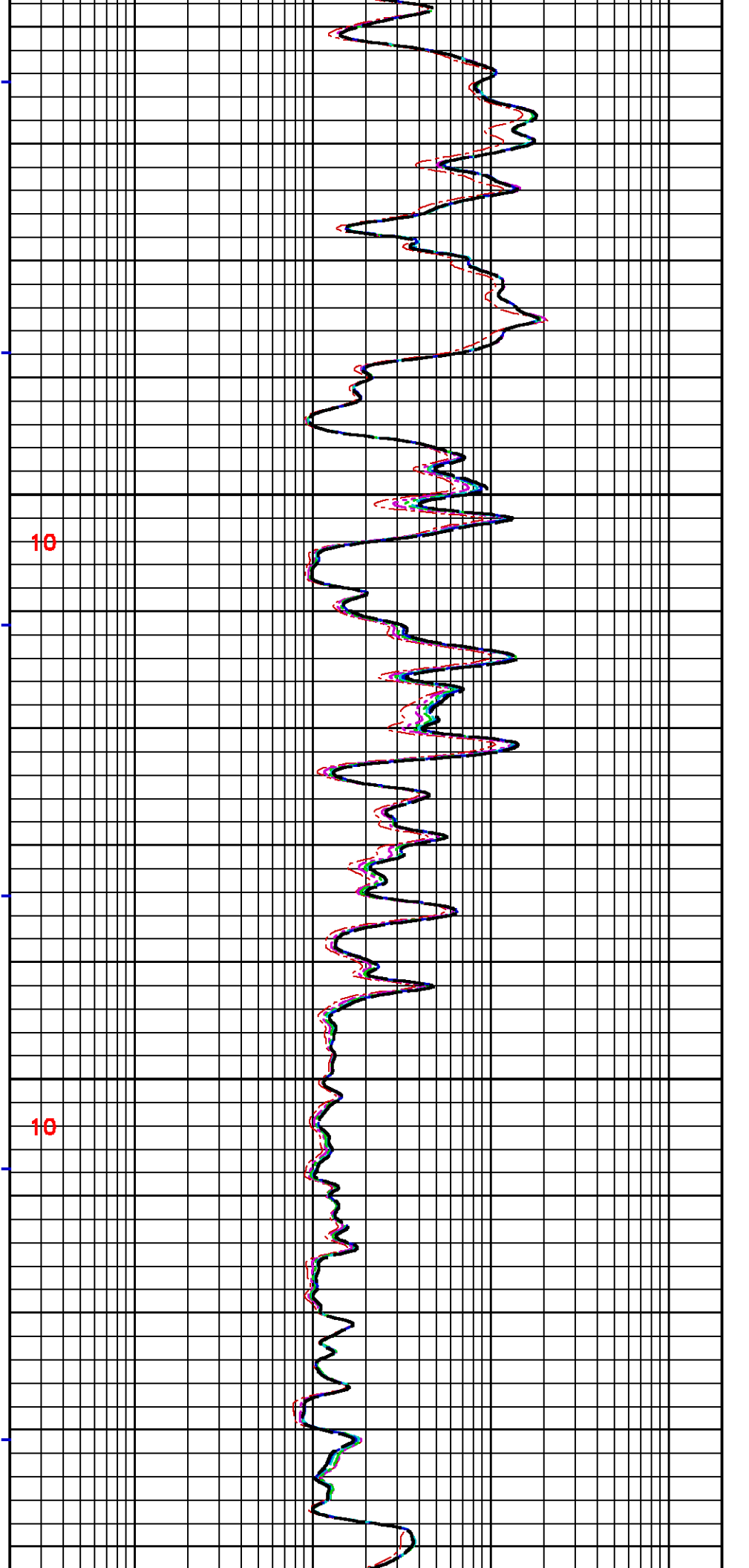


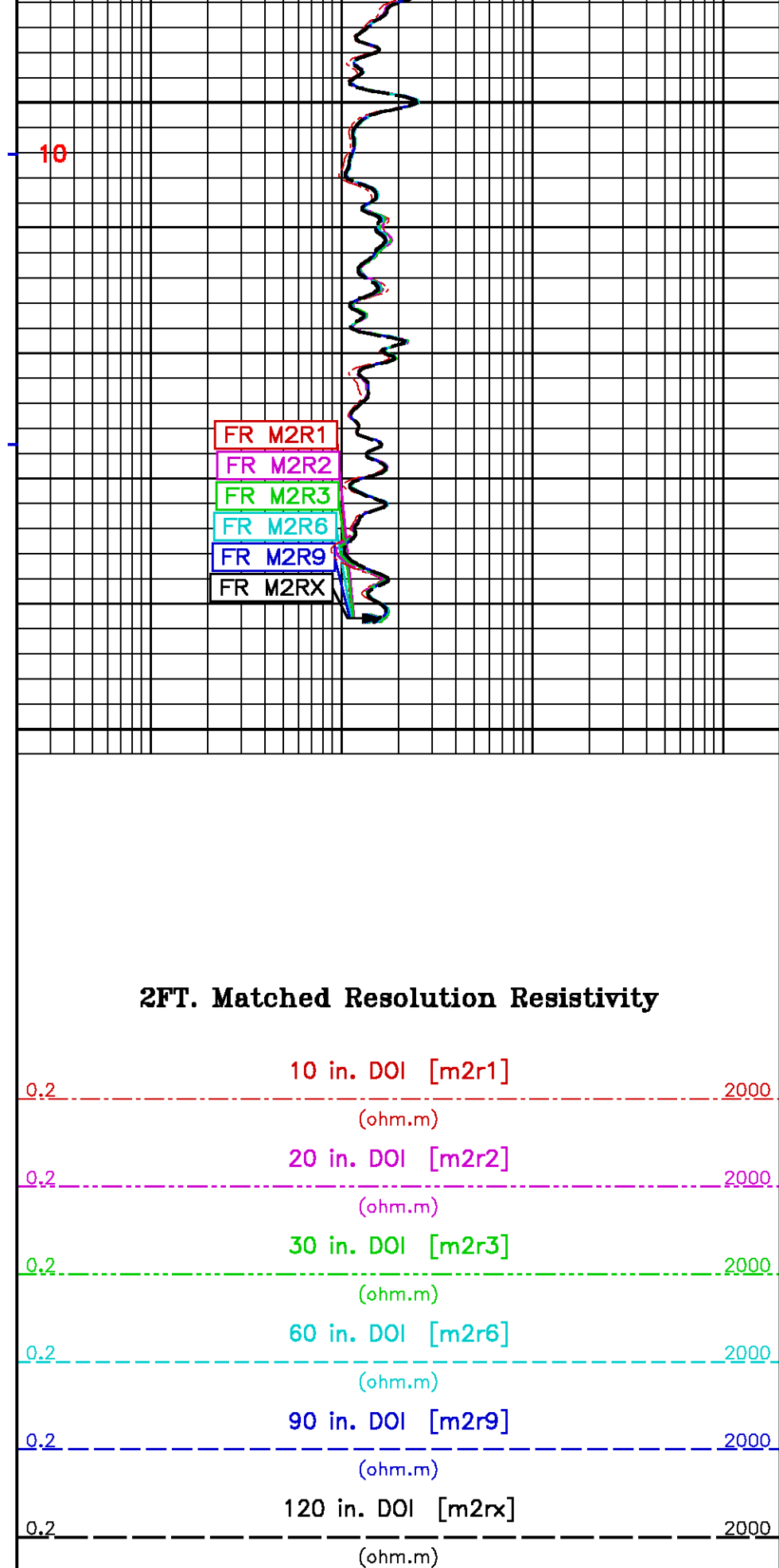
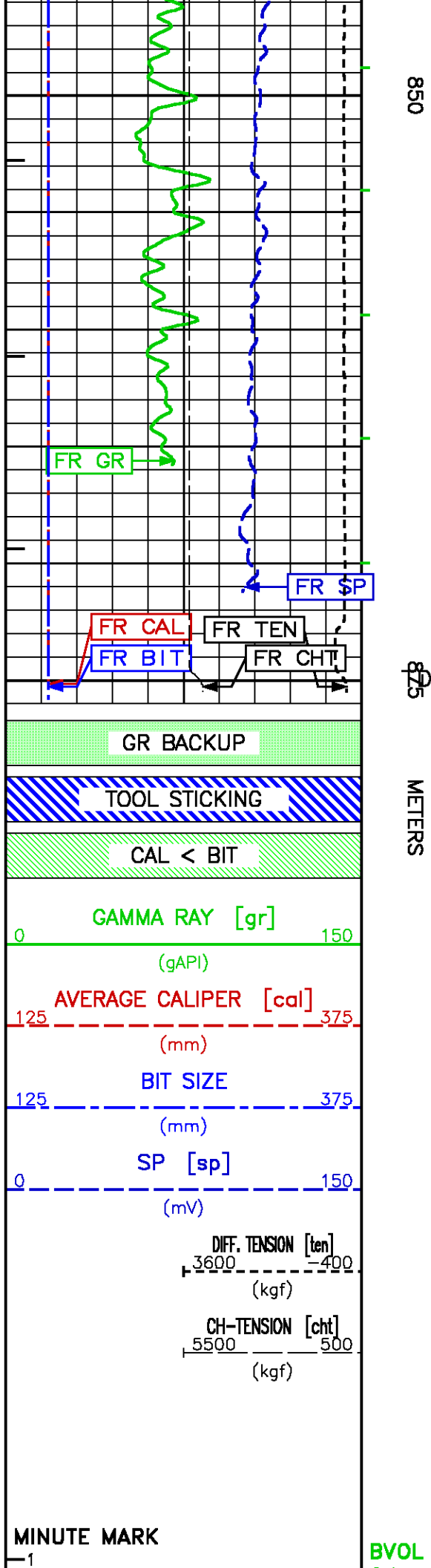












WTBH  
(degC)



0.1  
1  
10  
  
Cement  
0.1  
1  
10

REPEAT PASS

ECLIPS 5.0i Dec 17, 2003  
Updates: 1,2,3,32

Pcrplt /main/59

Cplot 7.09  
Pdf\_Cpp /main/16

Thu Nov 10 00:42:28 2005  
Fileview 4.67

## PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pass/vul\_hur2/1777Jx01.prm  
LOGGING MODE: DEPTH DIRECTION: UP  
TOP DEPTH: 756.590 m BOTTOM DEPTH: 875.995 m

### SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CHT	FILTER ( )	medium (1)		TOP	BOTTOM
TTRM	FILTER ( )	medium (1)		''	''
	FILTER (.h)	medium (1)		''	''
	FILTER (.l)	medium (1)		''	''
Y AXIS CALIPER	FILTER ( )	light (2)		''	''
TENSION	FILTER ( )	medium (1)		''	''
GR	FILTER ( )	medium (1)		''	''
SP-SPDH	FILTER ( )	medium (1)		''	''

### BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	166.100	mm	TOP	870.204
		139.700	mm	BOTTOM	
BIT SIZE	BIT SIZE	155.000	mm	TOP	BOTTOM
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (mbh*)	USE FIXED SIZE		''	''
BOREHOLE CORR DIAMETER	FIXED DIAMETER (mbh*)	155.000	mm	''	''
MUD VALUES SOURCE	RMUD SOURCE (HDIL)	TOOL MEASURED		''	''
MUD VALUES	MUD SAMPLE TEMP	23.9	degC	''	''
	MUD SAMPLE RES	1.000	ohm.m	''	''
	MUD REFERENCE TEMP	23.9	degC	''	''
	TEMP GRADIENT	2.187	0.01 degC/m	''	''

### 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

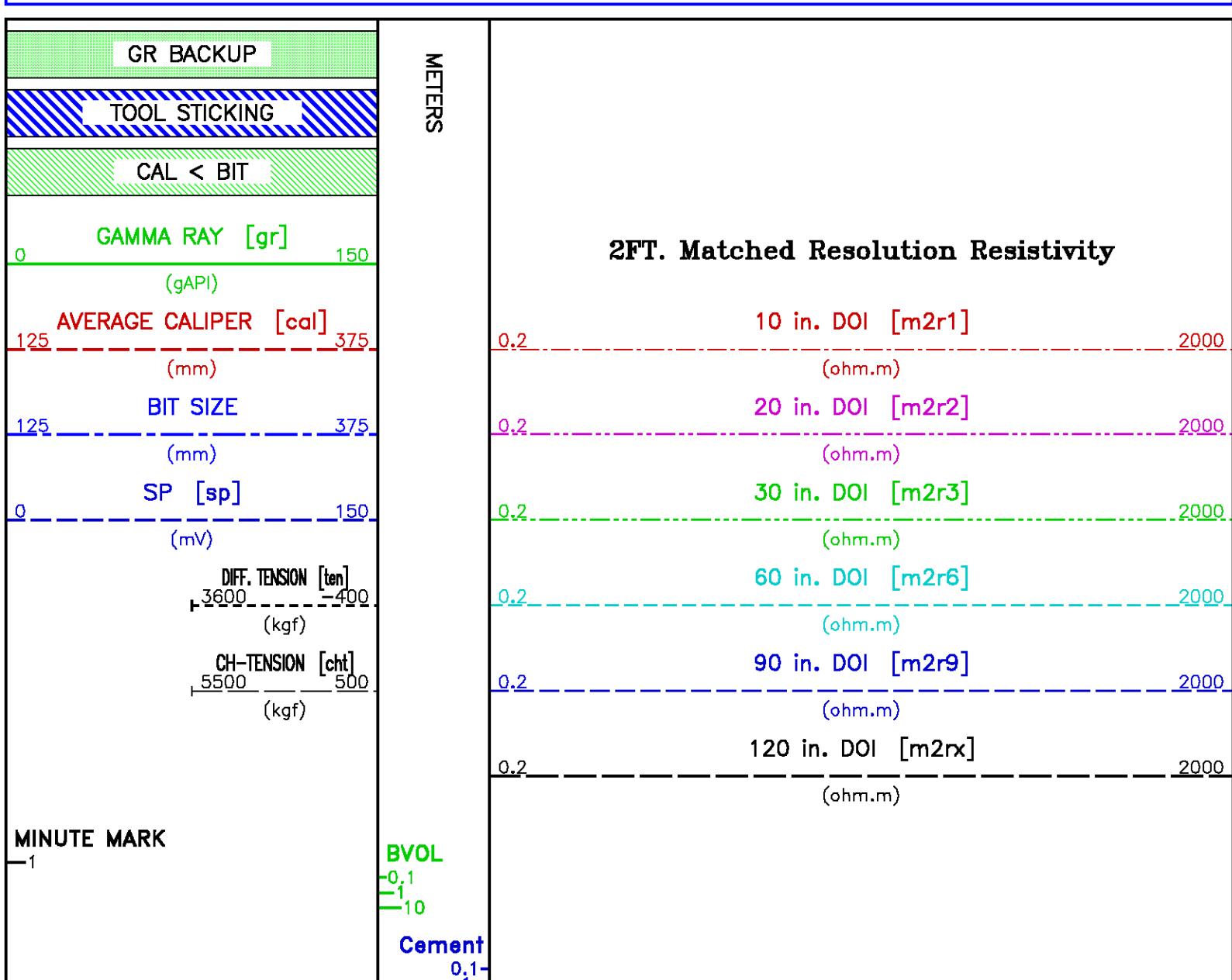
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION	
F1:BIT	BIT	Nov 9 22:59:17 2005	BIT SIZE	
F1:BVOL	BVOL	Nov 9 22:59:17 2005	BOREHOLE VOLUME	
F1:CAL	CAL	Nov 9 22:59:17 2005	CALIPER	
F1:CHT	CHT	Nov 9 22:59:17 2005	CABLE HEAD TENSION	
F1:CVOL	CVOL	Nov 9 22:59:17 2005	CEMENT VOLUME	

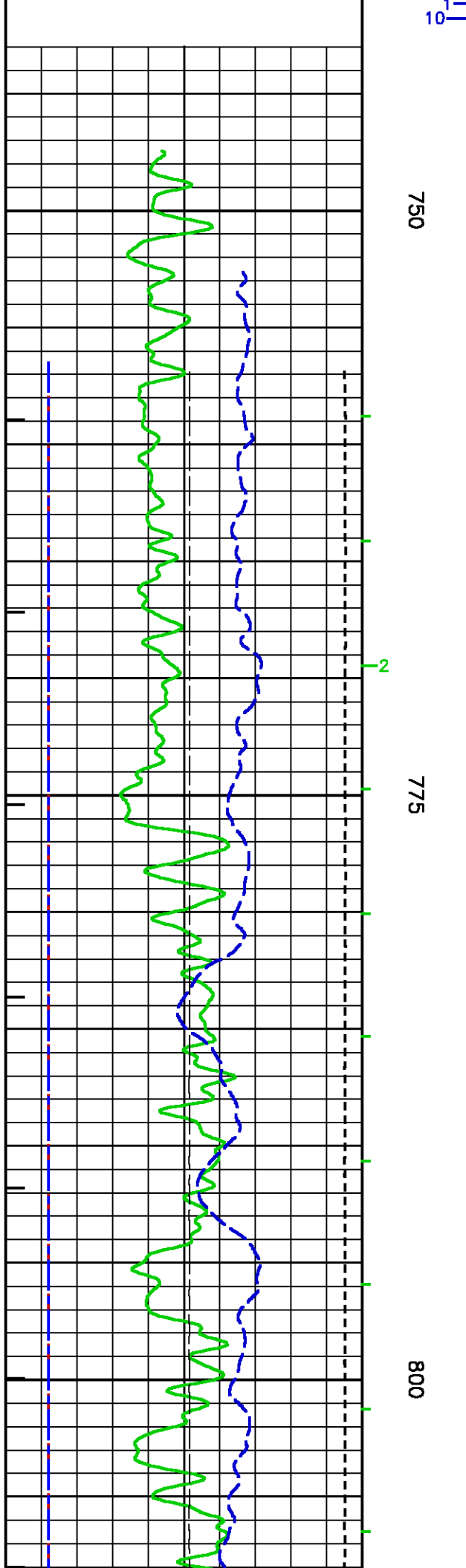
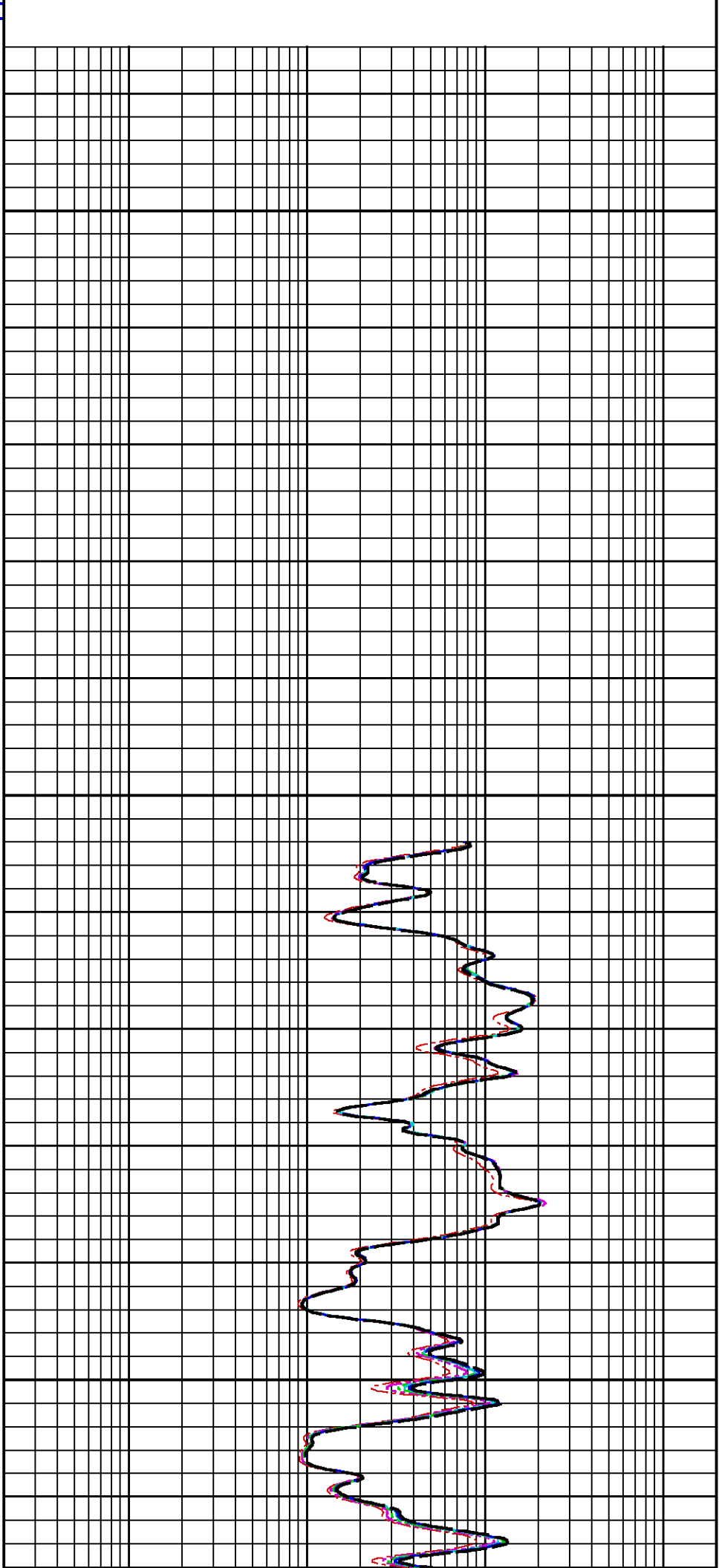
CURVE	CURVE	Nov 9 22:59:17 2005	CURVE	CURVE
F1:DEPTH	MATCH_2_RES_DATA	Nov 9 22:59:17 2005	SYSTEM DEPTH	SYSTEM DEPTH
F1:GR	GR	Nov 9 22:59:17 2005	GAMMA RAY	GAMMA RAY
F1:M2R1	M2R1	Nov 9 22:59:17 2005	VERT RESOLUTION MATCHED (2 FT)	RES - DOI 10 INCH
F1:M2R2	M2R2	Nov 9 22:59:17 2005	VERT RESOLUTION MATCHED (2 FT)	RES - DOI 20 INCH
F1:M2R3	M2R3	Nov 9 22:59:17 2005	VERT RESOLUTION MATCHED (2 FT)	RES - DOI 30 INCH
F1:M2R6	M2R6	Nov 9 22:59:17 2005	VERT RESOLUTION MATCHED (2 FT)	RES - DOI 60 INCH
F1:M2R9	M2R9	Nov 9 22:59:17 2005	VERT RESOLUTION MATCHED (2 FT)	RES - DOI 90 INCH
F1:M2RX	M2RX	Nov 9 22:59:17 2005	VERT RESOLUTION MATCHED (2 FT)	RES - DOI 120 INCH
F1:MMRK	MMRK	Nov 9 22:59:17 2005	MINUTE MARK	MINUTE MARK
F1:SP	SP	Nov 9 22:59:17 2005	SPONTANEOUS POTENTIAL	SPONTANEOUS POTENTIAL
F1:TEN	TEN	Nov 9 22:59:17 2005	DIFFERENTIAL TENSION	DIFFERENTIAL TENSION

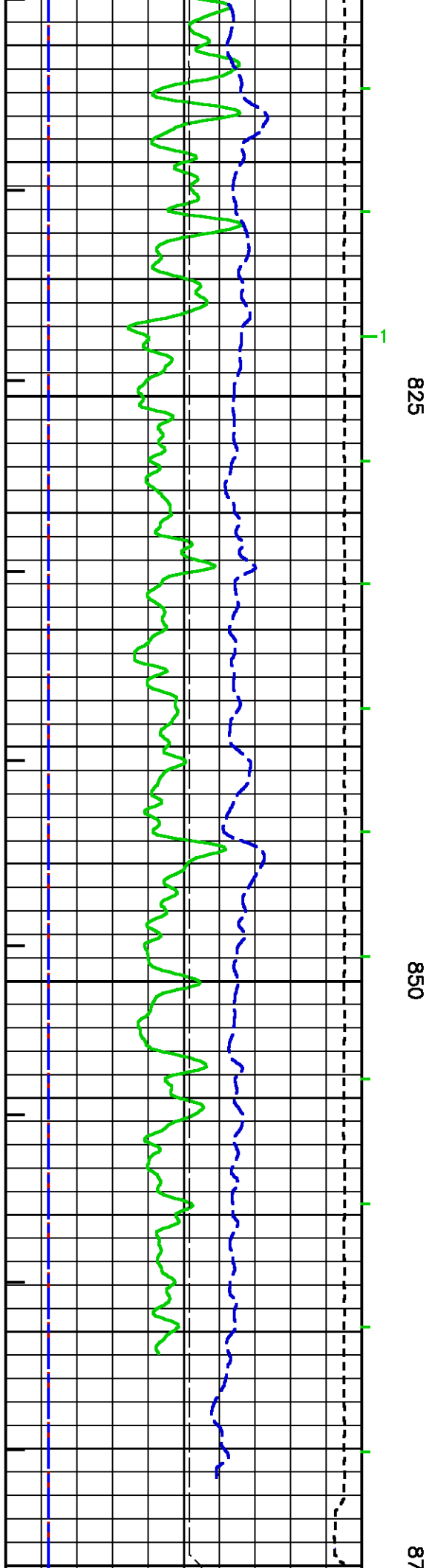
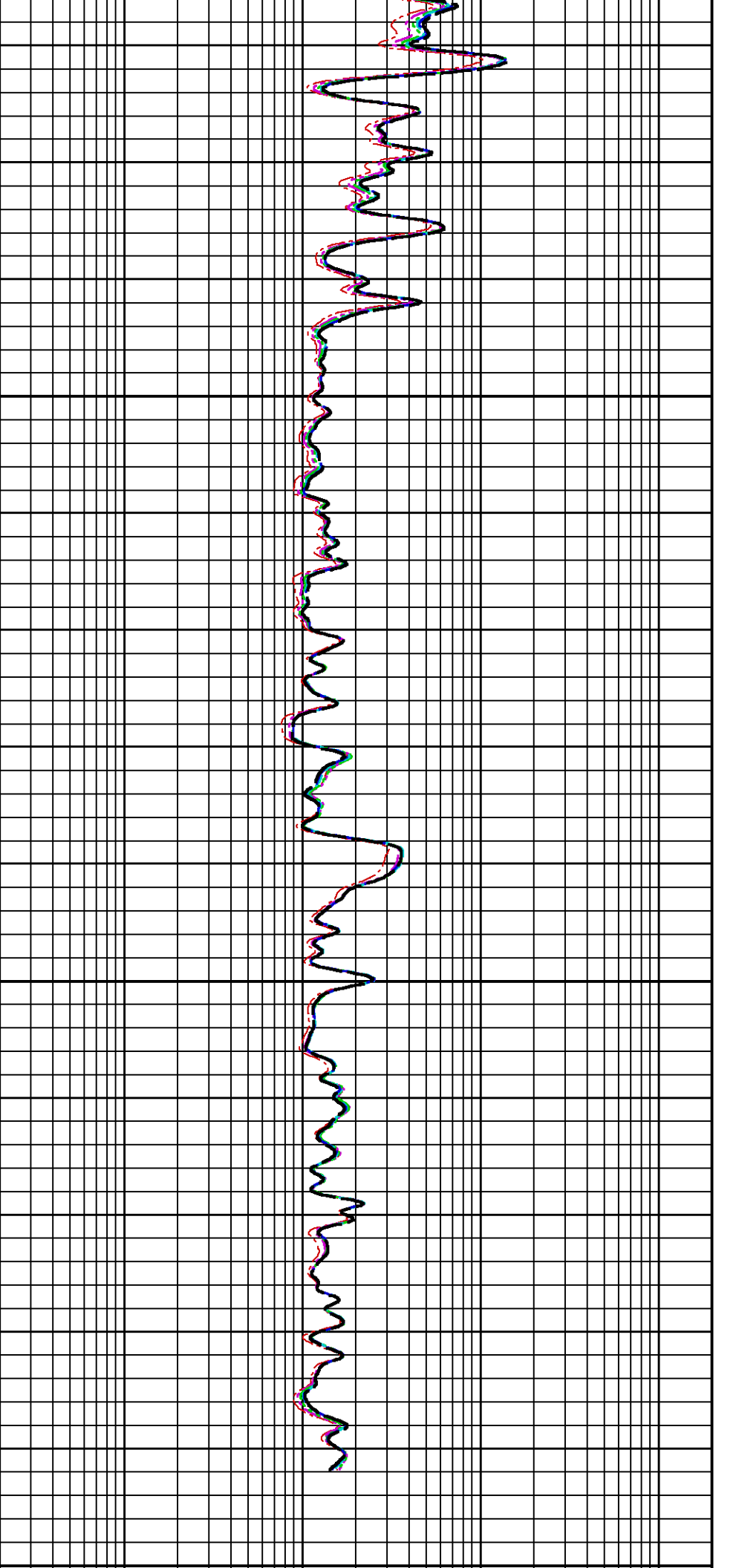
### CURVE MEASURE POINT OFFSET

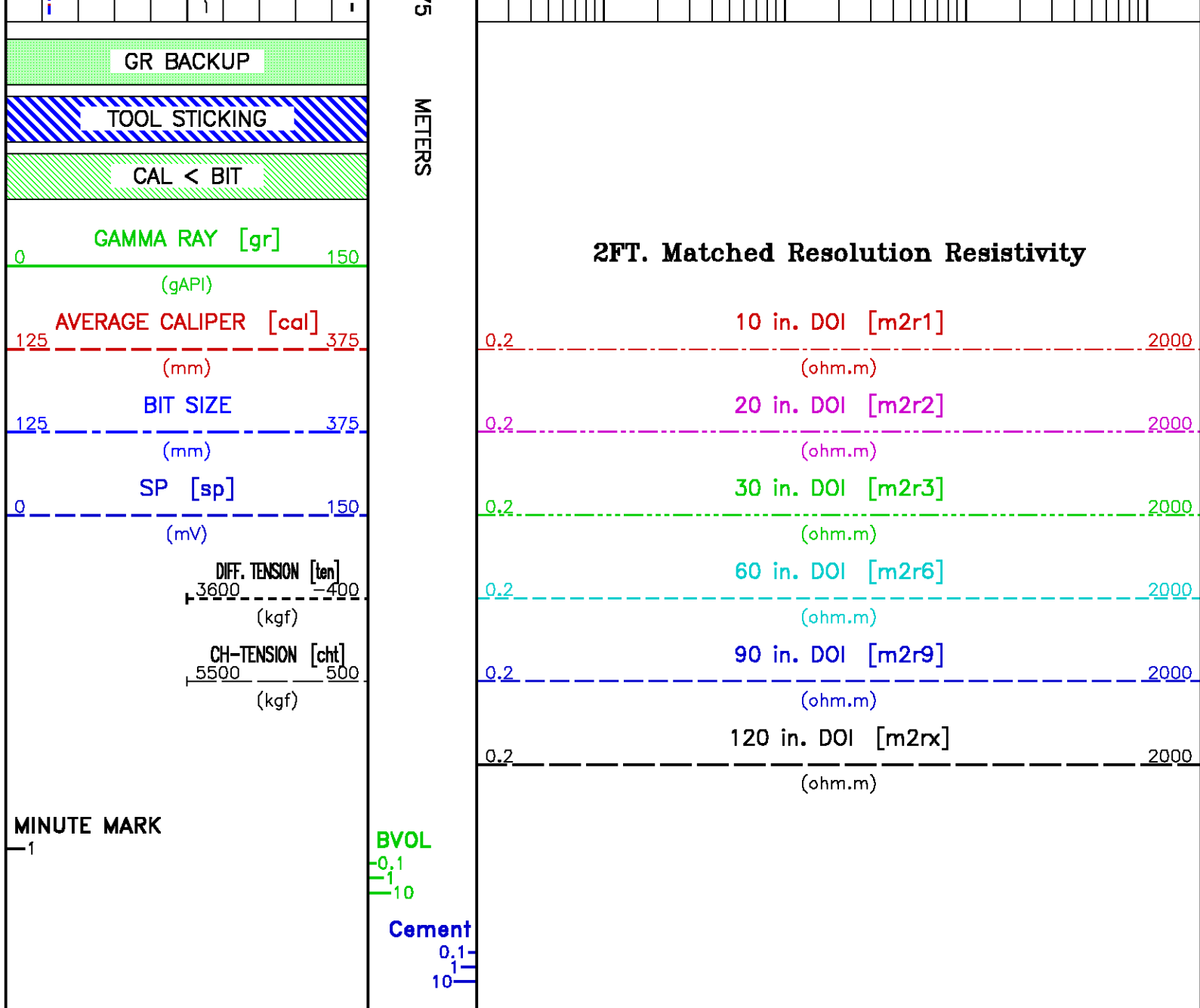
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	GR	9.45	M2R3	2.44	M2RX	2.44
CAL	0.00	M2R1	2.44	M2R6	2.44	SP	4.27
CHT	0.00	M2R2	2.44	M2R9	2.44	TEN	0.00

Presentation	: cpu1:/dat1a/pass/vul_hur2/hdl_rpt.pdf [1:240 Scale]
Plot Interval	: 743.255 - 875.995 Meters
Data File 1	: F1 : cpu1:/dat1a/pass/vul_hur2/1777Jx01.xtf
Created On	: Nov 9 22:59:17 2005
Company	: VULCAN MINERALS INC
Well	: ST GEORGE
Field	: ST GEORGE
File Interval	: 743.255 - 875.995 Meters
Oct	: 1777Jx









## CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/pass/vul\_hur2/hdil.tp1

## CHT PRIMARY CALIBRATION SUMMARY

TOOL #: 3981XA 179328

DATE/TIME PERFORMED: Fri May 6 18:50:41 2005

UNIT #: 3807TA 008616

Signal Low	Signal High	Scale Mult	Scale Add	Engr Low	Engr High
(raw)	(raw)			(kgf)	(kgf)

CHT      -36.64      334.43      1.90      69.71      0.00      706.00

## GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 153172

DATE/TIME PERFORMED: Sat Apr 9 15:00:41 2005

UNIT #: 3880SA HL8616

CALB JIG #: 4702NK 01-304

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	376.60	1256.29	879.7 870.0    960.0	0.171	64.22	214.22	150

## GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 153172

DATE/TIME PERFORMED: Thu May 12 07:25:21 2005

UNIT #: 3807TA 008616

VERI JIG #: 4702NK 01-304

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	50.80	966.18	0.171	8.66	164.75	156.09 140.00    160.00

## GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1329XA 153172

DATE/TIME PERFORMED: Wed Nov 9 21:45:18 2005

UNIT #: 3807TA 008616

VERI JIG #: 4702NK 01-304

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	143.60	1106.33	0.171	24.49	188.65	164.16 146.09    166.09

## GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 1329XA 153172

DATE/TIME PERFORMED: Thu Nov 10 00:50:37 2005

UNIT #: 3807TA 008616

VERI JIG #: 4702NK 01-304

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	157.73	1091.58	0.171	26.90	186.13	159.23 154.16    174.16

## SL\_I PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 153172

DATE/TIME PERFORMED: Tue Oct 19 13:23:24 2004

UNIT #: 3885TA ML4126

CALIBRATOR ID: 4702NA 01-304

	Bkgnd (cts/s)	Cal ON (cts/s)	Mult (gAPI/(cts/s))	Bkgnd (gAPI)	Cal ON (gAPI)	Cal Value (gAPI)
GR-SL (.06-3.5)	160.75	1060.97	0.167	26.79	176.79	150

	Std Rate (cts/s)	Meas Rate (cts/s)	Tool Norm	Std Mult	Log Mult	App Con (pct ppm)
E (.15-3.0)	748	757.9	0.987 0.900 1.100			
K				0.01169	0.01154	8.700
U				0.02668	0.02633	20.000
TH				0.07158	0.07064	53.500

	Mult chnl/MeV	Add chnls	Chl Sqr qsa	QCAL	GAIN	QPKS
SPECTRUM	70.986	1.261	1.385	0.994 0.980 1.020	2996	5

	P1 .352 MeV	P2 .609 MeV	P3 1.120 MeV	P4 1.765 MeV	P5 2.204 MeV
Std Pk	25.80	44.20	81.00	127.40	159.00
Meas Pk	25.47 22.80 28.80	44.49 40.20 48.20	81.76 76.00 86.00	127.38 121.40 133.40	156.67 152.00 166.00
Fit Pk	26.25	44.49	80.77	126.55	157.71

## SL\_I PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 153172

DATE/TIME PERFORMED: Tue Oct 19 13:26:55 2004

UNIT #: 3885TA ML4126

CALIBRATOR ID: 4702NA 01-304

	Bkgnd (cts/s)	Cal ON (cts/s)	Mult (gAPI/(cts/s))	Bkgnd (gAPI)	Cal ON (gAPI)	Cal Value (gAPI)
GR-SL (.06-3.5)	159.98	1070.00	0.167	26.66	178.29	152 135 165

	Std rate (cts/s)	Meas rate (cts/s)	Tool norm	Std Mult	Log Mult	App Con (pct ppm)
E (.15-3.0)	748	777.4	0.987			
K				0.01169	0.01154	8.969 7.830 9.570

U	0.02668	0.02633	20.469
			18.000 22.000
TH	0.07158	0.07064	54.917
			48.150 58.850

	Mult chnl/MeV	Add chnls	Chl Sqr qsa	QCAL	GAIN	QPKS
SPECTRUM	71.507	0.813	0.521	0.997	2996	5
				0.980 1.020		

	P1 .352 MeV	P2 .609 MeV	P3 1.120 MeV	P4 1.765 MeV	P5 2.204 MeV
Std Pk	25.80	44.20	81.00	127.40	159.00
Meas Pk	25.38	44.48	81.66	127.27	157.90
	22.80 28.80	40.20 48.20	76.00 86.00	121.40 133.40	152.00 166.00
Fit Pk	25.98	44.36	80.90	127.02	158.41

## SL-II BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1329XA 153172

DATE/TIME PERFORMED: Wed Nov 9 21:52:12 2005

UNIT #: 3807TA 008616

CALIBRATOR ID: 4702NA 01-304

	Bkgnd (cts/s)	Cal ON (cts/s)	Mult (gAPI/(cts/s))	Bkgnd (gAPI)	Cal ON (gAPI)	Cal Value (gAPI)
GR-SL (.06-3.5)	138.69	1070.17	0.167	23.11	178.32	155
						135 165

	Std rate (cts/s)	Meas rate (cts/s)	Tool norm	Std Mult	Log Mult	App Con (pct ppm)
E (.15-3.0)	748	765.4	0.987			

K	0.01169	0.01154	8.831
			7.830 9.570
U	0.02668	0.02633	20.154
			18.000 22.000
TH	0.07158	0.07064	54.072
			48.150 58.850

	Mult chnl/MeV	Add chnls	Chl Sqr qsa	QCAL	GAIN	QPKS
SPECTRUM	70.024	2.501	0.722	0.991	2895	5
				0.980 1.020		

	P1 .352 MeV	P2 .609 MeV	P3 1.120 MeV	P4 1.765 MeV	P5 2.204 MeV
Std Pk	25.80	44.20	81.00	127.40	159.00
Meas Pk	26.60	45.17	81.55	126.78	156.05
	22.80 28.80	40.20 48.20	76.00 86.00	121.40 133.40	152.00 166.00
Fit Pk	27.15	45.15	80.93	126.09	156.83



## SL\_II AFTER LOG VERIFICATION SUMMARY

TOOL #: 1329XA 153172

DATE/TIME PERFORMED: Thu Nov 10 00:51:24 2005

UNIT #: 3807TA 008616

CALIBRATOR ID: 4702NA 01-304

	Bkgnd (cts/s)	Cal ON (cts/s)	Mult (gAPI/(cts/s))	Bkgnd (gAPI)	Cal ON (gAPI)	Cal Value (gAPI)
GR-SL (.06-3.5)	155.82	1072.19	0.167	25.96	178.66	153
						135 165

	Std rate (cts/s)	Meas rate (cts/s)	Tool norm	Std Mult	Log Mult	App Con (pct ppm)
E (.15-3.0)	748	768.3	0.987			

K	0.01169	0.01154	8.864
			7.830 9.570
U	0.02668	0.02633	20.230
			18.000 22.000
TH	0.07158	0.07064	54.274
			48.150 58.850

	Mult chnl/MeV	Add chnls	Chl Sqr qsa	QCAL	GAIN	QPKS
SPECTRUM	70.477	2.426	0.640	0.997	2895	5
				0.980 1.020		

	P1 .352 MeV	P2 .609 MeV	P3 1.120 MeV	P4 1.765 MeV	P5 2.204 MeV
Std Pk	25.80	44.20	81.00	127.40	159.00
Meas Pk	26.63	45.50	81.93	127.41	157.05
	22.80 28.80	40.20 48.20	76.00 86.00	121.40 133.40	152.00 166.00
Fit Pk	27.23	45.35	81.36	126.82	157.76

## HDIL PRIMARY CALIBRATION SUMMARY

TOOL #: 1515MA 167593

DATE/TIME PERFORMED: Wed Apr 20 10:51:49 2005

UNIT #: 5753XA 10067203

GRCOND ID & DATE: Nlsku 0513102

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	-0.001	-0.002	-0.001	-0.001	-0.002	-0.002	-0.002	-0.006
	-0.200 0.200	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 0 Q	0.010	0.011	0.002	0.002	0.003	0.002	0.000	0.000
	-1.000 1.000	-0.200 0.200	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 1 R	0.003	0.002	-0.002	-0.005	-0.008	-0.006	-0.002	-0.001
	-0.200 0.200	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 1 Q	0.004	0.006	0.004	0.003	-0.000	-0.003	-0.006	-0.005

	-1.000 1.000	-0.200 0.200	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 2 R	0.001	0.003	-0.002	-0.001	-0.002	-0.002	0.000	0.000
	-0.200 0.200	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 2 Q	-0.009	-0.006	0.000	-0.001	-0.002	-0.002	-0.005	-0.002
	-1.000 1.000	-0.200 0.200	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 3 R	0.001	0.001	-0.008	-0.006	-0.007	-0.004	-0.002	-0.003
	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 3 Q	0.033	0.006	0.009	0.005	-0.000	-0.001	-0.007	-0.006
	-0.500 0.500	-0.200 0.200	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 4 R	-0.003	-0.010	-0.019	-0.023	-0.020	-0.012	-0.002	0.006
	-0.200 0.200	-0.200 0.200	-0.200 0.200	-0.200 0.200	-0.200 0.200	-0.200 0.200	-0.200 0.200	-0.200 0.200
Coil 4 Q	0.089	0.036	0.019	0.006	-0.005	-0.011	-0.010	-0.016
	-1.000 1.000	-0.400 0.400	-0.200 0.200	-0.200 0.200	-0.200 0.200	-0.200 0.200	-0.200 0.200	-0.200 0.200
Coil 5 R	-0.013	-0.014	-0.011	-0.003	-0.014	-0.021	-0.027	-0.015
	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400
Coil 5 Q	0.140	0.046	0.024	0.024	0.016	0.021	0.010	0.015
	-2.000 2.000	-0.800 0.800	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400
Coil 6 R	-0.022	-0.044	-0.032	-0.052	-0.025	-0.005	-0.018	-0.014
	-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	0.210	0.063	0.035	-0.007	-0.019	0.002	-0.004	-0.009
	-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	123.62	122.63	120.65	117.87	114.11	109.37	103.65	97.24
	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	76.00 110.00
Coil 0 P	7.081	22.327	37.359	52.386	67.505	82.625	97.815	112.867
	6.000 9.000	19.000 28.000	32.000 47.000	44.000 66.000	57.000 85.000	70.000 100.000	82.000 120.000	95.000 140.000
Coil 1 M	218.53	215.80	210.43	203.18	193.92	183.06	170.74	157.57
	180.00 270.00	180.00 270.00	170.00 260.00	170.00 250.00	160.00 250.00	160.00 230.00	150.00 220.00	140.00 200.00
Coil 1 P	7.763	24.387	40.649	56.767	72.795	88.654	104.380	119.745
	6.000 9.000	19.000 28.000	32.000 48.000	45.000 67.000	57.000 86.000	70.000 110.000	83.000 120.000	96.000 140.000
Coil 2 M	433.80	429.02	419.52	407.26	390.92	371.55	349.18	324.52
	360.00 540.00	360.00 540.00	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	7.777	24.434	40.776	57.024	73.269	89.442	105.627	121.639
	6.000 9.000	19.000 29.000	32.000 48.000	45.000 67.000	58.000 87.000	71.000 110.000	84.000 130.000	96.000 140.000
Coil 3 M	739.96	733.10	719.60	701.03	675.87	644.36	606.58	563.53
	590.00 880.00	580.00 870.00	570.00 850.00	550.00 830.00	530.00 800.00	500.00 760.00	470.00 710.00	440.00 650.00
Coil 3 P	7.789	24.392	40.785	57.164	73.664	90.187	106.826	123.339
	6.000 10.000	20.000 29.000	33.000 49.000	46.000 69.000	59.000 89.000	72.000 110.000	85.000 130.000	98.000 150.000
Coil 4 M	1132.3	1122.2	1101.6	1073.6	1034.4	986.3	927.6	861.7
	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	7.904	24.822	41.511	58.195	74.994	91.852	108.774	125.564
	6.000 10.000	20.000 30.000	33.000 50.000	46.000 70.000	60.000 90.000	73.000 110.000	86.000 130.000	99.000 150.000
Coil 5 M	2297.1	2272.2	2222.6	2155.8	2066.9	1960.2	1836.0	1697.5
	1900.0 2800.0	1800.0 2800.0	1800.0 2700.0	1800.0 2600.0	1700.0 2500.0	1600.0 2400.0	1500.0 2200.0	1400.0 2100.0
Coil 5 P	8.269	25.947	43.339	60.645	77.999	95.298	112.619	129.733
	6.000 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	5850.7	5806.8	5717.0	5594.3	5418.0	5193.2	4911.8	4581.0
	4700.0 7100.0	4700.0 7000.0	4600.0 6900.0	4400.0 6600.0	4200.0 6400.0	4000.0 6000.0	3700.0 5600.0	3400.0 5100.0
Coil 6 P	8.185	25.707	43.044	60.432	78.059	95.797	113.748	131.634
	7.000 10.000	22.000 32.000	36.000 54.000	51.000 76.000	65.000 98.000	80.000 120.000	94.000 140.000	110.000 160.000

AM Factor	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	507	-119	-207	-236	-247	-249	-248	-246

		-200	800	-500	100	-600	0	-500	0	-500	0	-500	0
Coil 0 Q		2156	806	464	293	184	104	42	-7				
		-3000	6000	-1000	2000	-1000	1200	-500	800	-400	600	-400	500
										-400	400	-400	300
Coil 1 R		555	69	6	-16	-27	-33	-36	-38				
		450	650	20	115	-30	45	-50	20	-55	0	-60	0
										-60	0	-60	0
Coil 1 Q		990	415	261	188	145	116	94	78				
		0	2500	0	900	0	800	0	400	0	300	0	250
										0	200	0	200
Coil 2 R		189.9	27.7	7.4	0.5	-2.7	-4.5	-5.4	-5.9				
		140.0	230.0	0.0	51.0	-10.0	25.0	-15.0	15.0	-16.0	10.0	-16.0	7.0
										-16.0	5.0	-16.0	3.0
Coil 2 Q		477.2	190.5	123.2	94.3	78.8	69.9	64.3	61.4				
		-200.0	1000.0	0.0	350.0	0.0	220.0	0.0	160.0	0.0	130.0	0.0	110.0
										0.0	100.0	0.0	90.0
Coil 3 R		54.0	8.4	2.3	0.3	-0.8	-1.2	-1.3	-2.2				
		37.0	62.0	0.0	12.0	-3.0	6.0	-4.0	4.0	-5.0	2.0	-5.0	1.0
										-6.0	1.0	-6.0	1.0
Coil 3 Q		85.6	40.3	30.4	27.5	27.1	27.8	29.7	32.3				
		-140.0	280.0	-40.0	100.0	-20.0	70.0	-10.0	60.0	-10.0	50.0	-10.0	50.0
										-10.0	50.0	-10.0	50.0
Coil 4 R		12.97	1.84	0.29	-0.32	-0.62	-0.74	-0.85	-0.92				
		5.00	18.00	-1.00	4.00	-2.00	2.00	-2.20	2.00	-2.50	2.00	-3.00	2.00
										-3.00	2.00	-4.00	2.00
Coil 4 Q		23.78	14.59	14.99	17.25	20.21	23.57	27.10	30.46				
		-100.00	100.00	-30.00	50.00	-20.00	40.00	-10.00	40.00	-10.00	40.00	-10.00	45.00
										-10.00	50.00	-10.00	60.00
Coil 5 R		2.44	-0.68	-1.28	-1.60	-1.69	-1.72	-1.98	-1.84				
		-2.00	5.80	-3.20	2.40	-4.50	3.10	-4.70	3.20	-4.80	3.20	-5.00	3.30
										-5.20	3.40	-5.40	3.50
Coil 5 Q		8.26	8.38	11.78	15.60	19.66	23.96	28.19	32.71				
		-60.00	70.00	-20.00	30.00	-20.00	30.00	-20.00	35.00	-20.00	45.00	-20.00	50.00
										-20.00	50.00	-20.00	60.00
Coil 6 R		-1.59	-1.92	-2.36	-2.55	-2.66	-2.76	-2.94	-3.10				
		-4.80	1.00	-5.70	3.80	-6.50	4.90	-6.90	5.40	-7.30	5.80	-7.50	6.00
										-7.70	6.10	-7.90	6.30
Coil 6 Q		-5.62	4.27	10.17	15.57	21.14	26.76	32.24	37.95				
		-30.00	30.00	-20.00	25.00	-20.00	35.00	-30.00	50.00	-35.00	60.00	-40.00	70.00
										-40.00	70.00	-50.00	80.00
										-60.00	100.00	-60.00	100.00

MM Factor		10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M		1.010	1.008	1.004	1.004	1.003	1.001	1.001	1.002
		0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100
Coil 0 P		0.040	0.196	0.303	0.315	0.303	0.265	0.227	0.228
		-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000
Coil 1 M		0.994	0.992	0.989	0.988	0.986	0.986	0.985	0.986
		0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100
Coil 1 P		0.073	0.242	0.304	0.334	0.296	0.283	0.263	0.218
		-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000
Coil 2 M		1.015	1.012	1.011	1.011	1.011	1.011	1.011	1.010
		0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100
Coil 2 P		-0.005	0.041	0.070	0.121	0.141	0.174	0.211	0.221
		-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000
Coil 3 M		1.024	1.023	1.023	1.023	1.022	1.022	1.021	1.020
		0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100
Coil 3 P		0.013	0.063	0.139	0.189	0.204	0.224	0.232	0.244
		-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000
Coil 4 M		1.027	1.026	1.026	1.026	1.025	1.025	1.024	1.023
		0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100
Coil 4 P		-0.008	0.060	0.087	0.144	0.138	0.185	0.162	0.167
		-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000
Coil 5 M		1.019	1.019	1.020	1.018	1.018	1.019	1.018	1.017
		0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100
Coil 5 P		0.053	-0.008	0.060	0.084	0.067	0.058	0.120	0.121
		-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000
Coil 6 M		1.023	1.025	1.024	1.022	1.021	1.026	1.025	1.022
		0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100
Coil 6 P		0.009	0.090	0.045	0.136	0.050	0.006	0.079	0.008
		-2.000	2.000	-2.000	2.000	-2.000	2.000	-2.000	2.000

Coil 0 P

0.009	0.090	0.043	0.150	0.030	0.000	0.079	0.000
-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000

PARMS

TCID 0

TCID 1

Cal Temp

T Factor

deg C

IDs

1.808

0.902

20.2

1.00

## HDIL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1515MA 167593

DATE/TIME PERFORMED: Wed Nov 9 22:52:56 2005

UNIT #: 3807TA 008616

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	-0.005 -0.200 0.200	-0.001 -0.100 0.100	-0.001 -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	-0.006 -0.100 0.100
Coil 0 Q	0.013 -1.000 1.000	0.014 -0.200 0.200	0.008 -0.100 0.100	0.003 -0.100 0.100	0.003 -0.100 0.100	0.002 -0.100 0.100	-0.001 -0.100 0.100	-0.001 -0.100 0.100
Coil 1 R	0.005 -0.200 0.200	0.006 -0.100 0.100	-0.003 -0.100 0.100	-0.005 -0.100 0.100	-0.008 -0.100 0.100	-0.006 -0.100 0.100	-0.003 -0.100 0.100	-0.001 -0.100 0.100
Coil 1 Q	0.007 -1.000 1.000	0.011 -0.200 0.200	0.011 -0.100 0.100	0.005 -0.100 0.100	0.002 -0.100 0.100	-0.003 -0.100 0.100	-0.006 -0.100 0.100	-0.008 -0.100 0.100
Coil 2 R	0.004 -0.200 0.200	0.011 -0.100 0.100	0.000 -0.100 0.100	-0.003 -0.100 0.100	-0.007 -0.100 0.100	-0.008 -0.100 0.100	-0.005 -0.100 0.100	-0.001 -0.100 0.100
Coil 2 Q	-0.015 -1.000 1.000	-0.006 -0.200 0.200	0.008 -0.100 0.100	0.008 -0.100 0.100	0.001 -0.100 0.100	-0.003 -0.100 0.100	-0.006 -0.100 0.100	-0.006 -0.100 0.100
Coil 3 R	0.009 -0.100 0.100	0.005 -0.100 0.100	-0.010 -0.100 0.100	-0.012 -0.100 0.100	-0.009 -0.100 0.100	-0.009 -0.100 0.100	-0.009 -0.100 0.100	-0.003 -0.100 0.100
Coil 3 Q	0.023 -0.500 0.500	0.011 -0.200 0.200	0.017 -0.100 0.100	0.004 -0.100 0.100	0.000 -0.100 0.100	-0.009 -0.100 0.100	-0.010 -0.100 0.100	-0.010 -0.100 0.100
Coil 4 R	-0.011 -0.200 0.200	0.003 -0.200 0.200	-0.008 -0.200 0.200	-0.022 -0.200 0.200	-0.028 -0.200 0.200	-0.017 -0.200 0.200	-0.012 -0.200 0.200	-0.003 -0.200 0.200
Coil 4 Q	0.085 -1.000 1.000	0.042 -0.400 0.400	0.036 -0.200 0.200	0.020 -0.200 0.200	0.009 -0.200 0.200	-0.007 -0.200 0.200	-0.016 -0.200 0.200	-0.021 -0.200 0.200
Coil 5 R	-0.011 -0.400 0.400	-0.009 -0.400 0.400	-0.008 -0.400 0.400	-0.027 -0.400 0.400	-0.030 -0.400 0.400	-0.014 -0.400 0.400	-0.008 -0.400 0.400	-0.013 -0.400 0.400
Coil 5 Q	0.135 -2.000 2.000	0.051 -0.800 0.800	0.035 -0.400 0.400	0.025 -0.400 0.400	0.013 -0.400 0.400	-0.001 -0.400 0.400	0.002 -0.400 0.400	0.001 -0.400 0.400
Coil 6 R	-0.009 -1.000 1.000	0.031 -1.000 1.000	0.020 -1.000 1.000	-0.024 -1.000 1.000	-0.052 -1.000 1.000	-0.086 -1.000 1.000	-0.045 -1.000 1.000	-0.040 -1.000 1.000
Coil 6 Q	0.157 -5.000 5.000	0.055 -2.000 2.000	0.086 -1.000 1.000	0.086 -1.000 1.000	0.031 -1.000 1.000	-0.018 -1.000 1.000	-0.026 -1.000 1.000	-0.048 -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	123.64 100.00 150.00	122.61 100.00 150.00	120.58 98.00 150.00	117.74 96.00 140.00	113.80 92.00 140.00	108.91 87.00 130.00	103.16 82.00 120.00	96.61 76.00 110.00
Coil 0 P	7.076 6.000 9.000	22.317 19.000 28.000	37.335 32.000 47.000	52.354 44.000 66.000	67.468 57.000 85.000	82.545 70.000 100.000	97.685 82.000 120.000	112.670 95.000 140.000
Coil 1 M	218.68 180.00 270.00	215.88 180.00 270.00	210.44 170.00 260.00	203.09 170.00 250.00	193.52 160.00 250.00	182.45 160.00 230.00	170.06 150.00 220.00	156.77 140.00 200.00
Coil 1 P	7.754 6.000 9.000	24.369 19.000 28.000	40.620 32.000 48.000	56.731 45.000 67.000	72.750 57.000 86.000	88.561 70.000 110.000	104.221 83.000 120.000	119.534 96.000 140.000
Coil 2 M	157.46 100.00 200.00	122.75 100.00 150.00	112.22 98.00 150.00	102.75 96.00 140.00	722.62 570.00 870.00	702.74 570.00 870.00	717.24 570.00 870.00	722.54 570.00 870.00

Coil 2 M	433.46 360.00 540.00	428.58 360.00 540.00	419.02 350.00 530.00	406.37 340.00 510.00	389.60 330.00 500.00	369.74 310.00 470.00	347.24 300.00 440.00	322.50 270.00 410.00
Coil 2 P	7.752 6.000 9.000	24.407 19.000 29.000	40.736 32.000 48.000	56.990 45.000 67.000	73.212 58.000 87.000	89.340 71.000 110.000	105.466 84.000 130.000	121.446 95.000 140.000
Coil 3 M	739.51 590.00 880.00	732.42 580.00 870.00	718.71 570.00 850.00	699.77 550.00 830.00	673.82 530.00 800.00	641.68 500.00 760.00	603.53 470.00 710.00	560.26 440.00 650.00
Coil 3 P	7.782 6.000 10.000	24.368 20.000 29.000	40.745 33.000 49.000	57.117 46.000 69.000	73.600 59.000 89.000	90.076 72.000 110.000	106.683 85.000 130.000	123.109 98.000 150.000
Coil 4 M	1131.1 900.0 1400.0	1120.5 900.0 1300.0	1099.6 900.0 1300.0	1070.8 850.0 1300.0	1030.4 800.0 1200.0	981.1 800.0 1200.0	922.0 750.0 1100.0	855.6 700.0 1000.0
Coil 4 P	7.902 6.000 10.000	24.807 20.000 30.000	41.484 33.000 50.000	58.178 46.000 70.000	74.947 60.000 90.000	91.740 73.000 110.000	108.619 86.000 130.000	125.379 99.000 150.000
Coil 5 M	2291.4 1900.0 2800.0	2265.9 1800.0 2800.0	2215.9 1800.0 2700.0	2147.3 1800.0 2600.0	2056.2 1700.0 2500.0	1947.6 1600.0 2400.0	1822.6 1500.0 2200.0	1684.9 1400.0 2100.0
Coil 5 P	8.262 6.000 10.000	25.926 20.000 31.000	43.302 34.000 51.000	60.613 48.000 72.000	77.945 62.000 93.000	95.174 76.000 110.000	112.436 89.000 130.000	129.506 100.000 150.000
Coil 6 M	5838.9 4700.0 7100.0	5793.1 4700.0 7000.0	5702.2 4600.0 6900.0	5577.2 4400.0 6600.0	5395.0 4200.0 6400.0	5162.6 4000.0 6000.0	4880.2 3700.0 5600.0	4549.5 3400.0 5100.0
Coil 6 P	8.175 7.000 10.000	25.675 22.000 32.000	42.984 36.000 54.000	60.377 51.000 76.000	77.952 65.000 98.000	95.648 80.000 120.000	113.508 94.000 140.000	131.352 110.000 160.000

## HDIL AFTER LOG VERIFICATION SUMMARY

TOOL #: 1515MA 167593

DATE/TIME PERFORMED: Thu Nov 10 00:34:07 2005

UNIT #: 3807TA 008616

	ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	0.000	0.001	-0.000	-0.001	-0.005	-0.004	-0.004	-0.004	
	-0.085 0.075	-0.061 0.059	-0.031 0.029	-0.032 0.028	-0.035 0.025	-0.034 0.026	-0.034 0.026	-0.036 0.024	
Coil 0 Q	0.013	0.014	0.006	0.004	0.004	0.002	-0.000	-0.001	
	-0.027 0.053	-0.106 0.134	-0.022 0.038	-0.027 0.033	-0.027 0.033	-0.028 0.032	-0.031 0.029	-0.031 0.029	
Coil 1 R	0.009	0.006	0.001	-0.002	-0.008	-0.006	-0.004	-0.002	
	-0.075 0.085	-0.044 0.056	-0.033 0.027	-0.035 0.025	-0.038 0.022	-0.036 0.024	-0.033 0.027	-0.031 0.029	
Coil 1 Q	0.007	0.012	0.008	0.008	0.004	-0.003	-0.007	-0.008	
	-0.393 0.407	-0.089 0.111	-0.019 0.041	-0.025 0.035	-0.028 0.032	-0.033 0.027	-0.036 0.024	-0.038 0.022	
Coil 2 R	0.005	0.004	0.000	0.004	0.001	-0.004	-0.003	0.003	
	-0.066 0.074	-0.019 0.041	-0.030 0.030	-0.033 0.027	-0.037 0.023	-0.038 0.022	-0.035 0.025	-0.031 0.029	
Coil 2 Q	-0.006	-0.008	-0.001	0.001	0.002	-0.001	-0.003	-0.005	
	-0.365 0.335	-0.106 0.094	-0.022 0.038	-0.022 0.038	-0.029 0.031	-0.033 0.027	-0.036 0.024	-0.036 0.024	
Coil 3 R	0.012	0.002	-0.005	-0.011	-0.013	-0.012	-0.007	0.004	
	-0.031 0.049	-0.035 0.045	-0.050 0.030	-0.052 0.028	-0.049 0.031	-0.049 0.031	-0.049 0.031	-0.043 0.037	
Coil 3 Q	0.030	0.012	0.009	0.009	0.003	-0.002	-0.008	-0.008	
	-0.177 0.223	-0.069 0.091	-0.023 0.057	-0.036 0.044	-0.040 0.040	-0.049 0.031	-0.050 0.030	-0.050 0.030	
Coil 4 R	0.003	-0.015	-0.016	-0.011	-0.021	-0.014	-0.007	-0.001	
	-0.071 0.049	-0.057 0.063	-0.068 0.052	-0.082 0.038	-0.088 0.032	-0.077 0.043	-0.072 0.048	-0.063 0.057	
Coil 4 Q	0.092	0.039	0.020	0.009	0.008	-0.009	-0.017	-0.016	
	-0.215 0.385	-0.058 0.142	-0.024 0.096	-0.040 0.080	-0.051 0.069	-0.067 0.053	-0.076 0.044	-0.081 0.039	
Coil 5 R	-0.011	-0.014	-0.019	-0.009	-0.018	-0.011	-0.006	-0.030	
	-0.131 0.109	-0.129 0.111	-0.128 0.112	-0.147 0.093	-0.150 0.090	-0.134 0.106	-0.128 0.112	-0.133 0.107	
Coil 5 Q	0.155	0.039	0.019	0.024	0.008	0.001	0.005	-0.001	
	-0.485 0.735	-0.199 0.301	-0.085 0.155	-0.095 0.145	-0.107 0.133	-0.121 0.119	-0.118 0.122	-0.119 0.121	
Coil 6 R	-0.041	-0.042	-0.040	0.008	-0.044	-0.036	-0.008	-0.008	
	-0.309 0.291	-0.269 0.331	-0.280 0.320	-0.324 0.276	-0.352 0.248	-0.386 0.214	-0.345 0.255	-0.340 0.260	

Coil 6 Q	0.180	0.056	0.032	0.012	0.020	-0.031	-0.028	-0.036
	-1.343	1.657	-0.545	0.655	-0.214	0.386	-0.214	0.386
					-0.269	0.331	-0.318	0.282
							-0.326	0.274
								-0.348
								0.252

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

Coil 0 M	123.67	122.63	120.53	117.62	113.87	109.33	103.80	97.60
	121.17	126.12	120.16	125.06	118.17	122.99	115.38	120.09
					111.52	116.07	106.74	111.09
							101.09	105.22
								94.68
								98.55
Coil 0 P	7.074	22.324	37.337	52.251	67.248	82.283	97.459	112.517
	4.076	10.076	19.317	25.317	34.335	40.335	49.354	55.354
					64.468	70.468	79.545	85.545
							94.685	100.685
								109.670
								115.670
Coil 1 M	218.69	215.87	210.33	202.86	193.62	183.12	171.09	158.27
	214.31	223.06	211.56	220.20	206.23	214.65	199.03	207.15
					189.65	197.39	178.80	186.10
							166.66	173.47
								153.63
								159.90
Coil 1 P	7.754	24.380	40.633	56.624	72.545	88.302	104.005	119.377
	4.754	10.754	21.369	27.369	37.620	43.620	53.731	59.731
					69.750	75.750	85.561	91.561
							101.221	107.221
								116.534
								122.534
Coil 2 M	433.68	428.69	418.89	406.04	390.02	371.16	349.57	325.68
	424.79	442.13	420.01	437.15	410.64	427.40	398.24	414.49
					381.81	397.40	362.35	377.14
							340.29	354.18
								316.05
								328.95
Coil 2 P	7.768	24.423	40.753	56.885	73.002	89.085	105.260	121.269
	4.752	10.752	21.407	27.407	37.736	43.736	53.990	59.990
					70.212	76.212	86.340	92.340
							102.466	108.466
								118.446
								124.446
Coil 3 M	739.73	732.56	718.51	699.14	674.34	643.92	607.55	566.05
	724.72	754.30	717.78	747.07	704.34	733.09	685.77	713.76
					660.34	687.29	628.84	654.51
							591.46	615.60
								549.05
								571.46
Coil 3 P	7.782	24.382	40.756	57.025	73.395	89.825	106.450	122.994
	4.782	10.782	21.368	27.368	37.745	43.745	54.117	60.117
					70.600	76.600	87.076	93.076
							103.683	109.683
								120.109
								126.109
Coil 4 M	1131.5	1120.9	1099.5	1070.1	1031.3	985.0	927.9	864.4
	1108.4	1153.7	1098.1	1142.9	1077.6	1121.6	1049.4	1092.2
					1009.8	1051.0	961.5	1000.8
							903.5	940.4
								838.5
								872.7
Coil 4 P	7.901	24.817	41.493	58.071	74.735	91.489	108.421	125.220
	4.902	10.902	21.807	27.807	38.484	44.484	55.178	61.178
					71.947	77.947	88.740	94.740
							105.619	111.619
								122.379
								128.379
Coil 5 M	2293.1	2267.5	2216.1	2146.5	2058.9	1956.0	1835.4	1702.8
	2245.6	2337.2	2220.5	2311.2	2171.6	2260.2	2104.3	2190.2
					2015.0	2097.3	1908.7	1986.6
							1786.2	1859.1
								1651.2
								1718.6
Coil 5 P	8.263	25.938	43.319	60.516	77.730	94.926	112.243	129.398
	5.262	11.262	22.926	28.926	40.302	46.302	57.613	63.613
					74.945	80.945	92.174	98.174
							109.436	115.436
								126.506
								132.506
Coil 6 M	5843.7	5797.5	5703.0	5573.3	5400.1	5184.3	4913.2	4597.8
	5722.1	5955.7	5677.3	5909.0	5588.2	5816.3	5465.6	5688.7
					5287.1	5502.9	5059.3	5265.8
							4782.6	4977.8
								4458.5
								4640.5
Coil 6 P	8.174	25.690	43.005	60.286	77.758	95.391	113.324	131.206
	5.175	11.175	22.675	28.675	39.984	45.984	57.377	63.377
					74.952	80.952	92.648	98.648
							110.508	116.508
								128.352
								134.352



COMPANY  
WELL  
FIELD  
PROVINCE

VULCAN MINERALS INC  
HURICANE #1 (BACKSTRETCH #2)  
ST GEORGES BAY  
NEWFOUNDLAND

FILE NO:

API NO:

LOCATION:

LIC: 2005-116-01-03

ELEVATIONS:

KB 3.3 M

DF

GL 135 M

LAT

LONG

DATE

10-NOV-2005

Baker Atlas

