



Baker Atlas

FILE NO:

COMPANY

VULCAN MINERALS INC

WELL

HURICANE #1 (BACKSTRETCH #2)

API NO:

FIELD

ST GEORGES BAY

PROVINCE

NEWFOUNDLAND

Ver. 3.87

LOCATION:

LIC: 2005-116-01-03

OTHER SERVICES

LAT 377200

LONG 5344600 M

ZDL/CN/DAL/GR

PERMANENT DATUM

GL

ELEVATION

3.3 M

LOG MEASURED FROM

KB

135 M

ABOVE P.D.

DRILL MEAS. FROM

KELLY BUSHING

ELEVATIONS:

KB 3.3 M

DF

GL 135 M

DATE

10-NOV-2005

RUN

TRIP

2

1

SERVICE ORDER

201776

DEPTH DRILLER

876.0 M

DEPTH LOGGER

875.4 M

BOTTOM LOGGED INTERVAL

872.0 M

TOP LOGGED INTERVAL

25.0 M

CASING DRILLER

177.4 MM

245.5 M

CASING LOGGER

245.7 M

BIT SIZE

155.0 MM

TYPE OF FLUID IN HOLE

H2O

DENSITY

NA

PH

NA

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

NA

1.038 DEGC

MAX. RECORDED TEMP.

HSL 8616

SARNAIA

EQUIP. NO.

LOCATION

D. IRONSIDE

RECORDED BY

KARLA SMITH

WITNESSED BY

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
155.0 MM		

#### CASING RECORD

SIZE	WEIGHT	GRADE	FROM	TO
244.5 MM	53.6 KG/M	J-55	0.0 M	60.0 M
177.8 MM	25.3 KG/M	H-40	0.0 M	245.5 M

#### REMARKS

RUN 2 TRIP 1 :

TIME STOP CIRCULATING:  
MAXIMUM DEVIATION 5 DEGREES AT METRES.  
DAL/ZDL/CN/GR RUN IN COMBINATION.  
CNC IS AVERAGE CALIPER CORRECTED.

INTEGRATED TRANSIT TIME TICS EVERY: 1.0, 10.0, & 100.0 MSEC.

INTEGRATED BOREHOLE VOLUME TICS EVERY: 0.1, 1.0 & 10.0 M3.  
INTEGRATED CEMENT VOLUME TICS EVERY: 0.1, 1.0, & 10.0 M3.

SANDSTONE MATRIX USED: 2.650 G/CM3.

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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	KNIT	3923XA	186276	FREE
1	1	CN	2446XA	173080	DECENTRALIZED
1	1	ZDL E	2228EA	153328	DECENTRALIZED
1	1	ZDL M	2228MA	153038	PAD DEVICE X-AXIS
1	1	DAL ELEC	1667EA	153562	CENTRALIZED
1	1	DAL MAND	1680MA	154419	CENTRALIZED

## INSTRUMENT CONFIGURATION

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

CABLEHEAD

Series : CABL338  
 Mnemonic : CBLH  
 Diameter : 8.6 cm  
 Weight : 10.9 kg  
 Length : 167.6 cm  
 Measure Point: 83.8 cm: CABLEHEAD TOP

21.91 m

CABLEHEAD TOP — 21.07 m

TTRM SUB

Series : 3981XA  
 Mnemonic : TTRM  
 Diameter : 9.2 cm  
 Weight : 36.4 kg  
 Length : 116.8 cm  
 Measure Point: 42.2 cm: TEMP MP  
 Measure Point: 34.5 cm: RM MP

TEMP MP — 19.48 m

RM MP — 19.41 m

WTS COMMON REMOTE

Series : 3514XA  
 Mnemonic : WTS  
 Diameter : 9.2 cm  
 Weight : 65.5 kg  
 Length : 189.5 cm

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 — 15.43 m

COMPENSATED NEUTRON

Series : 2448XA  
Mnemonic : CN  
Diameter : 9.2 cm  
Weight : 68.2 kg  
Length : 231.4 cm  
Source Type : AM241BE  
Strength : 18 curies  
Measure Point: 80.3 cm: LSN MP  
Measure Point: 68.2 cm: SSN MP

LSN MP — 13.43 m

SSN MP — 13.31 m

Z-DENSLOG

Series : 2228XA  
Mnemonic : ZDL  
Diameter : 12.4 cm  
Weight : 213.6 kg  
Length : 564.6 cm  
Source Type : CS137  
Strength : 2.0 curies  
Measure Point: 107.7 cm: SSD MP  
Measure Point: 97.3 cm: CAL / ZSPEC MP



SSD MP — 8.06 m  
CAL / ZSPEC MP — 7.95 m

KNUCKLE JOINT

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

ARRAY ACOUSTILOG ELECTRONICS

Series : 1667EA  
Mnemonic : DAC  
Diameter : 8.6 cm  
Weight : 61.8 kg  
Length : 238.3 cm

DIGITAL ACOUSTILOG

Series : 1680MA  
Mnemonic : DAL  
Diameter : 8.6 cm  
Weight : 65.9 kg  
Length : 388.9 cm  
Measure Point: 242.3 cm: T1 MP  
Measure Point: 181.4 cm: T2 MP  
Measure Point: 89.9 cm: R1 MP

T1 MP — 2.42 m

T2 MP — 1.81 m

R1 MP — 0.90 m

BULL PLUG 3 1/8

0.00 m

TOTAL LENGTH: 21.98 m  
 TOTAL WEIGHT: 811.4 kg  
 MAX DIAMETER: 12.4 cm

## MAIN LOG - UPPER PRESENTATION

ECLIPS 5.0i Dec 17, 2003

Updates: 1,2,3,32

Pcrplt /main/59

Cplot 7.09

Pdf\_Cpp /main/16

Thu Nov 10 06:05:46 2005

Fileview 4.67

### PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pass/vul\_hur2/1777JxR01.prm  
 LOGGING MODE: DEPTH DIRECTION: UP  
 TOP DEPTH: 30.861 m BOTTOM DEPTH: 873.557 m

#### SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CHT	FILTER ( )	medium (1)		TOP	BOTTOM
Y AXIS CALIPER	FILTER ( )	light (2)		"	"
SPEED	FILTER ( )	medium (1)		"	"
TENSION	FILTER ( )	medium (1)		"	"
X AXIS CALIPER	FILTER ( )	medium (1)		"	"
GR	FILTER ( )	medium (1)		"	"
ZDL	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	"	"

#### ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
ZDL CHI-SMOOTH FILTER	DEN CHISM ( )	ON		TOP	BOTTOM
	PE CHISM ( )	OFF		"	"
ZDL	ZDL TRACKING	ON		"	"

### CURVE DESCRIPTION REPORT

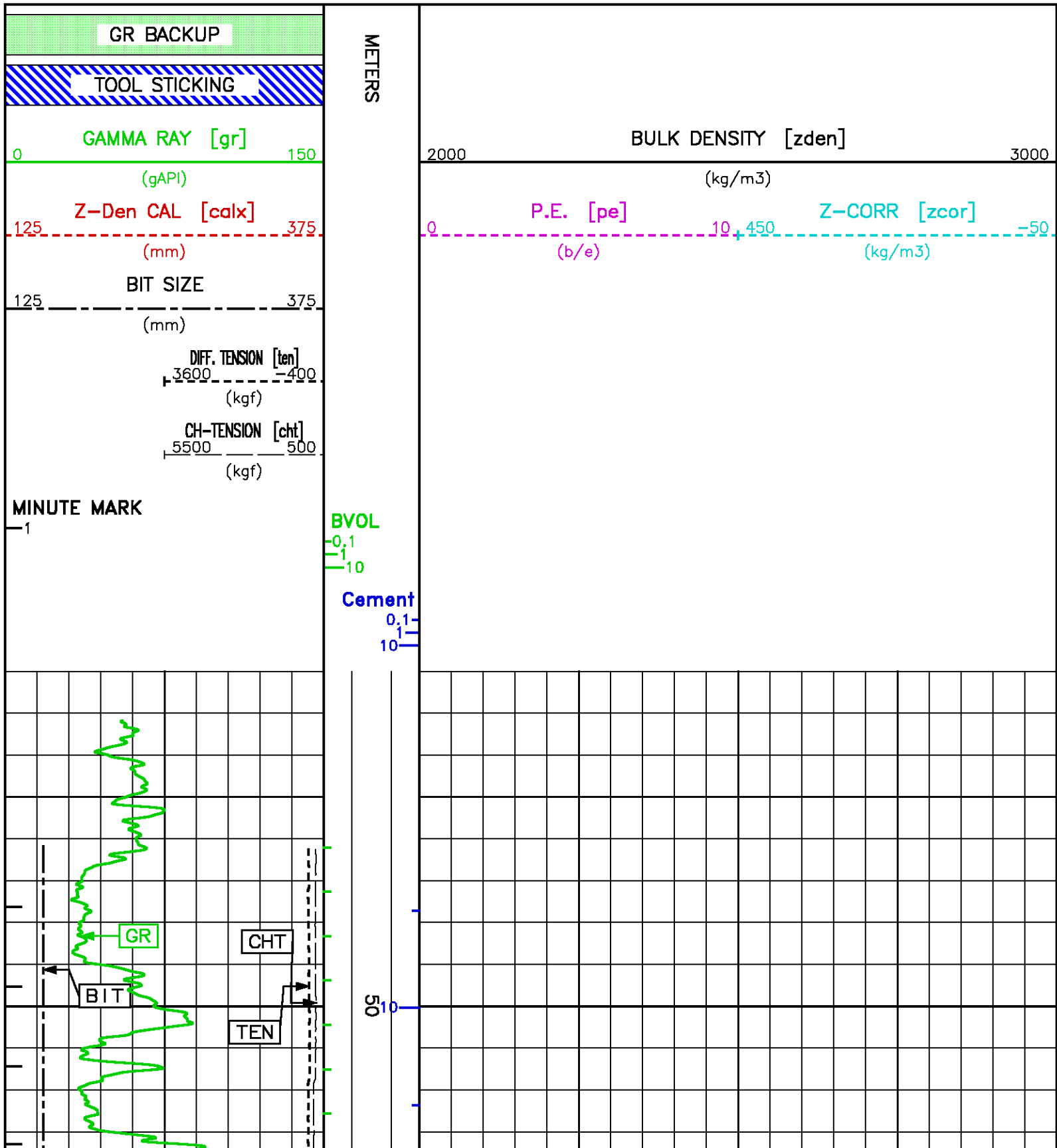
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT_ZDL	Nov 10 05:40:55 2005	BIT SIZE
F1:BVOL	BVOL	Nov 10 05:40:55 2005	BOREHOLE VOLUME
F1:CALX	CALX	Nov 10 05:40:55 2005	CALIPER FROM X AXIS OF X-Y CALIPER(S)
F1:CHT	CHT	Nov 10 05:40:55 2005	CABLE HEAD TENSION
F1:CVOL	CVOL	Nov 10 05:40:55 2005	CEMENT VOLUME
F1:GR	GR	Nov 10 05:40:55 2005	GAMMA RAY
F1:MMRK	MMRK	Nov 10 05:40:55 2005	MINUTE MARK
F1:PE	PE	Nov 10 05:40:55 2005	PHOTO ELECTRIC CROSS-SECTION
F1:TEN	TEN	Nov 10 05:40:55 2005	DIFFERENTIAL TENSION
F1:ZCOR	ZCOR	Nov 10 05:40:55 2005	DENSITY CORRECTION
F1:ZDEN	ZDEN	Nov 10 05:40:55 2005	FORMATION BULK DENSITY

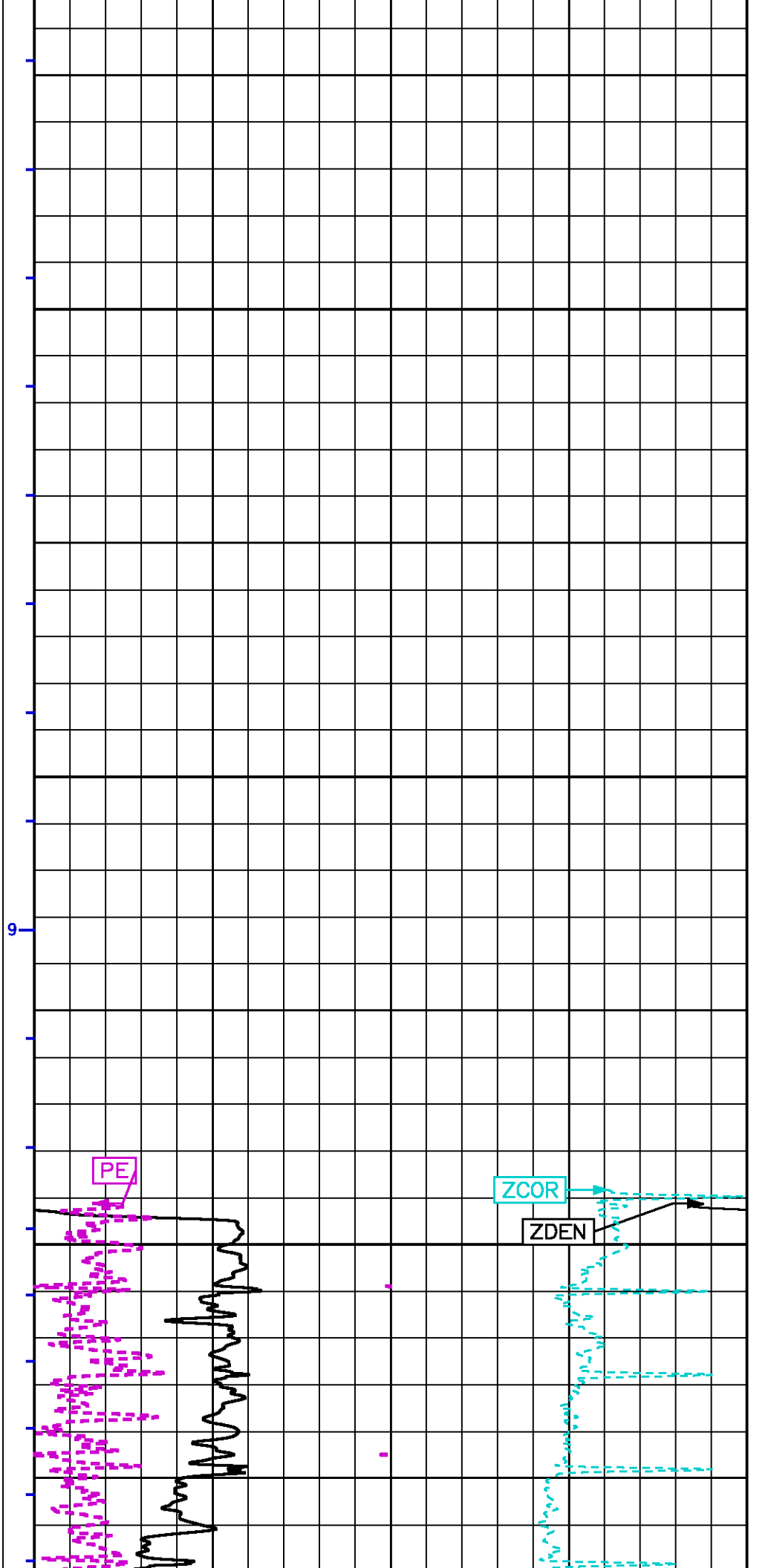
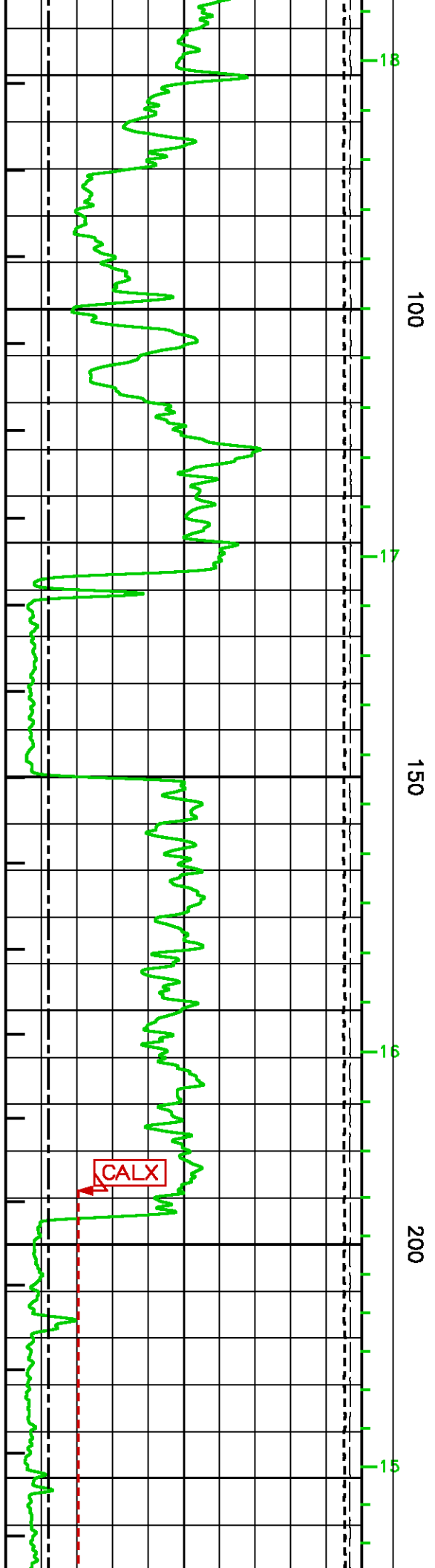
### CURVE MEASURE POINT OFFSET

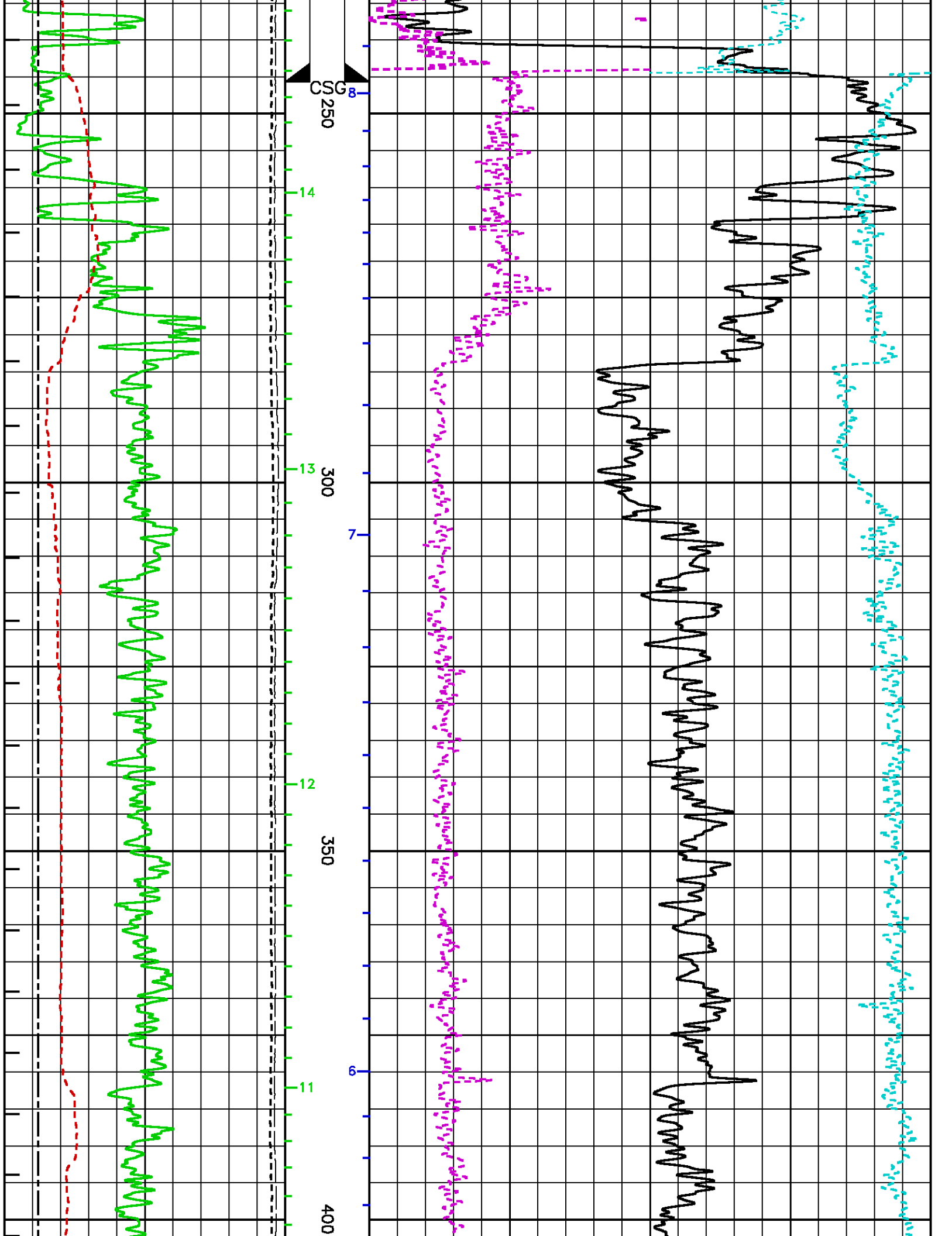
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
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BIT CALX	0.00 7.92	CHT GR	0.00 15.39	PE TEN	7.92 0.00	ZCOR ZDEN	7.92 7.92
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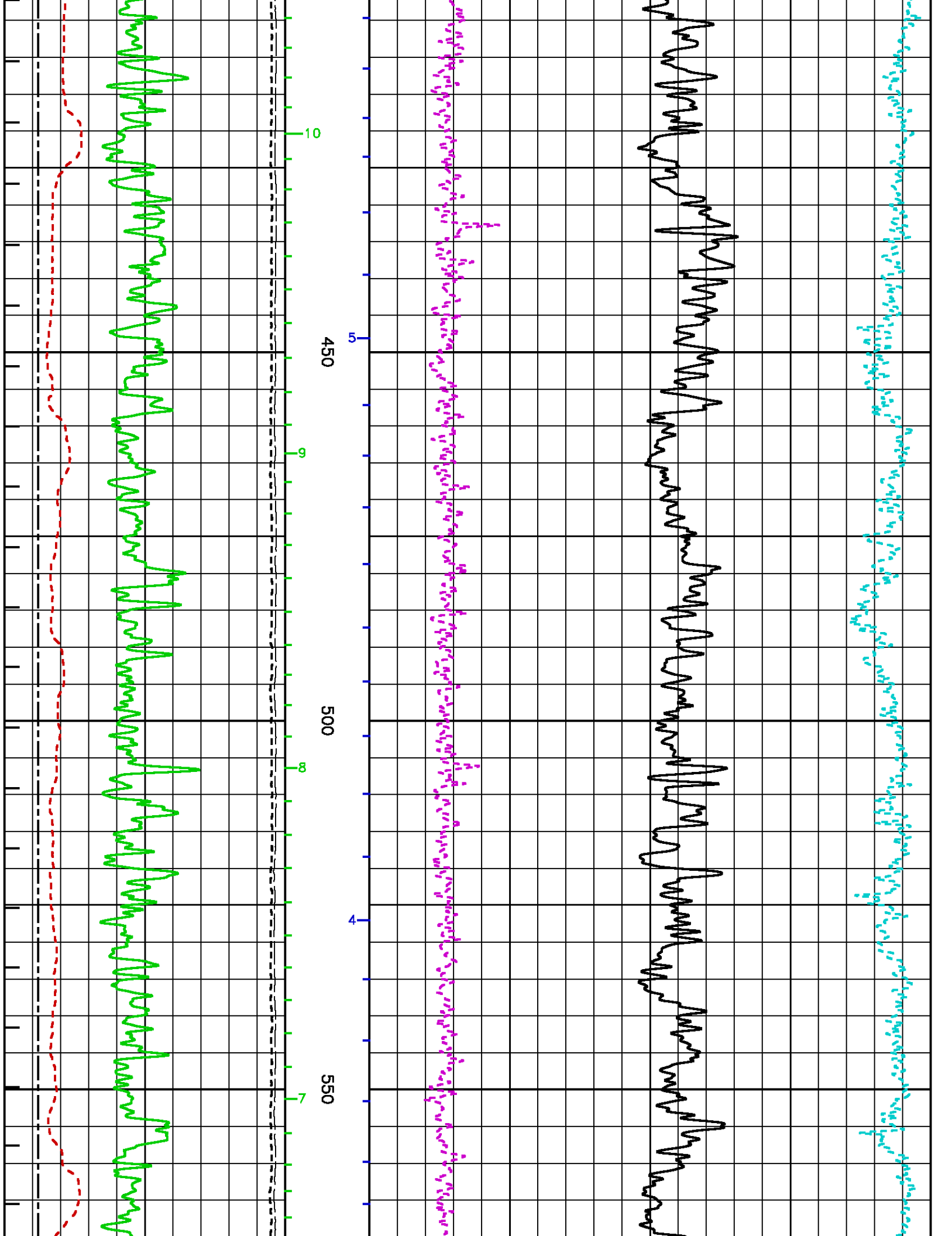
Presentation	: cpu1:/dat1a/pass/vul_hur2/zdLup.pdf [1:600 Scale]
Plot Interval	: 11.6586 - 873.557 Meters
Data File 1	: F1 : cpu1:/dat1a/pass/vul_hur2/1777JxR01.xtf
Created On	: Nov 10 05:40:55 2005
Company	: VULCAN MINERALS INC
Well	: ST GEORGE
Field	: ST GEORGE
File Interval	: 11.6586 - 873.557 Meters
Oct	: 1777Jx

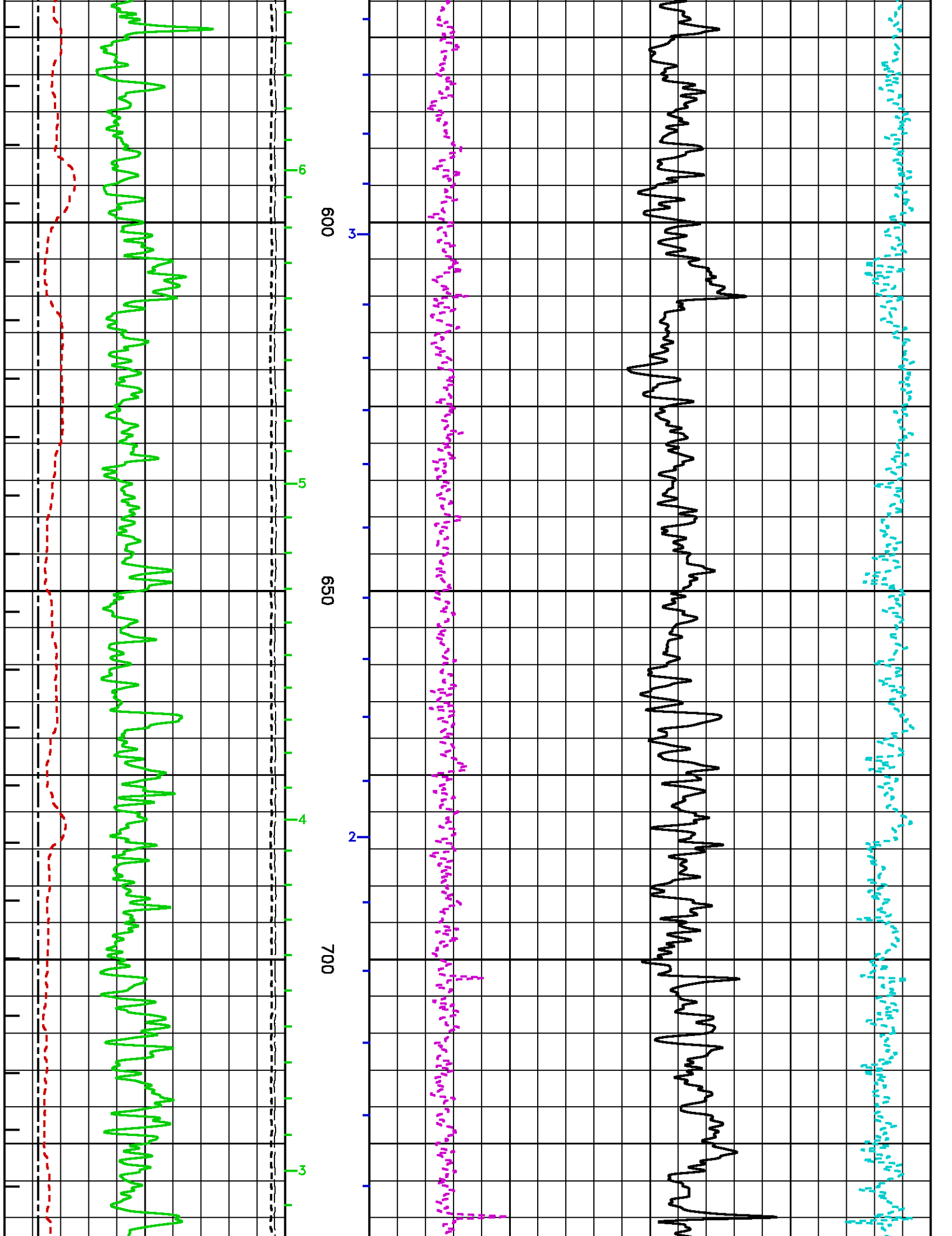


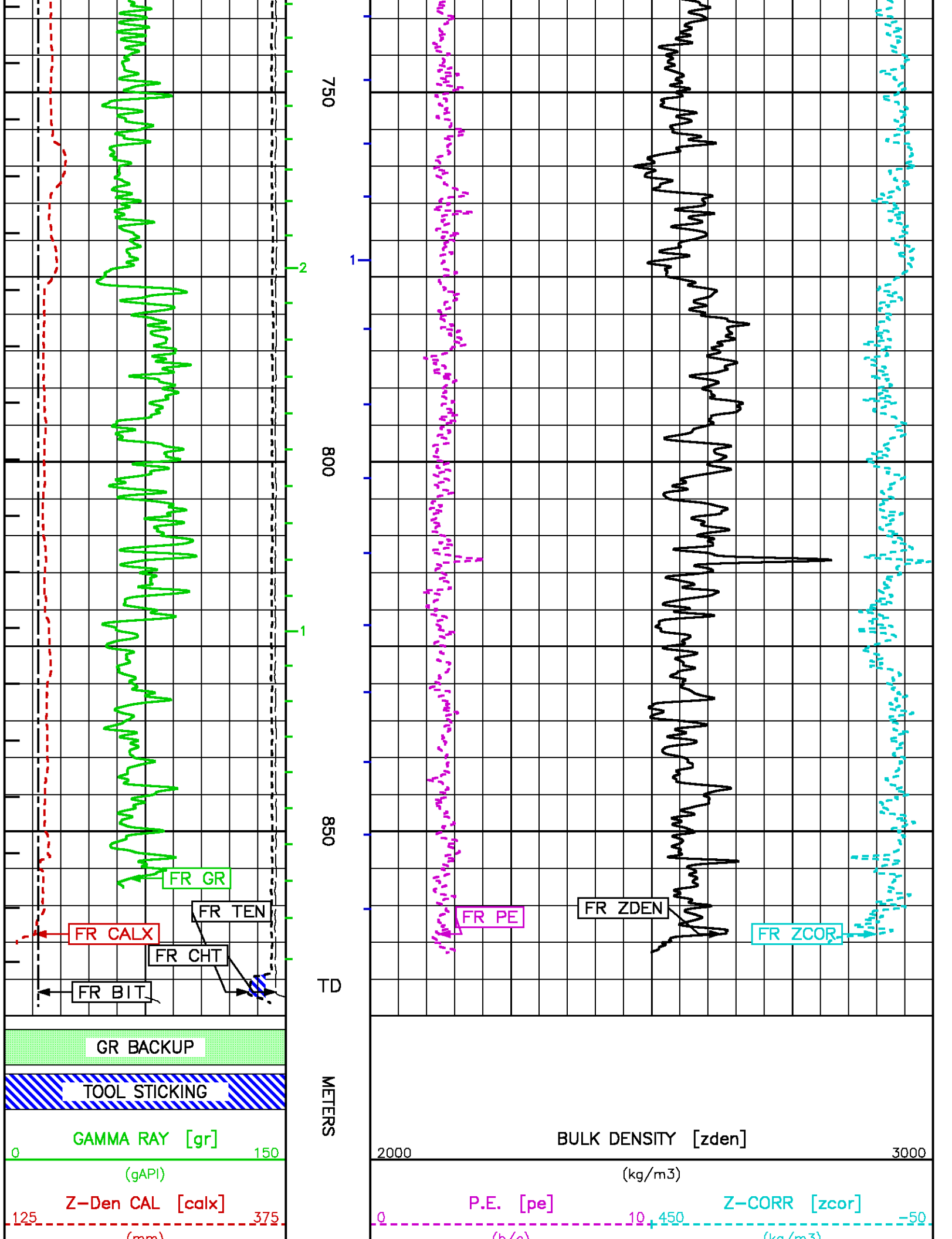


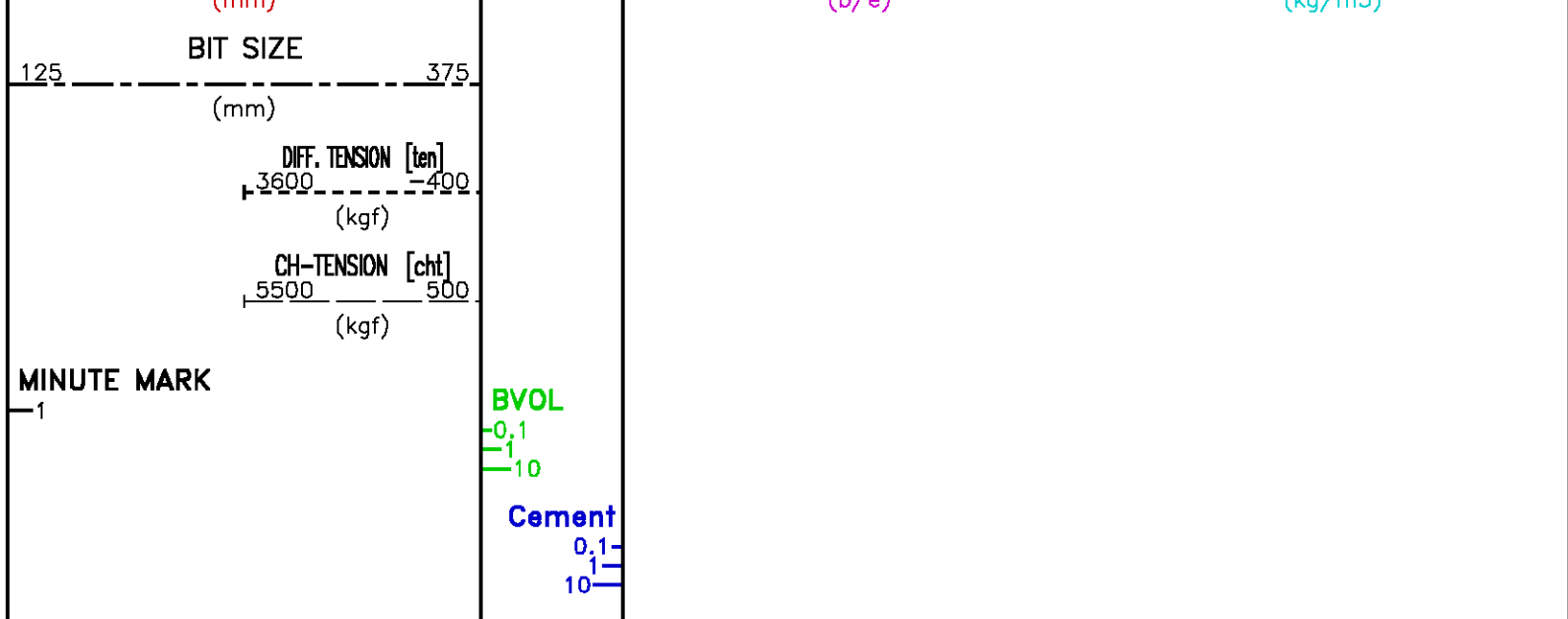












## MAIN LOG - SANDSTONE MATRIX

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

Pcrplt /main/59

Cplot 7.09  
Pdf\_Cpp /main/16

Thu Nov 10 06:20:49 2005  
Fileview 4.67

### PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pass/vul\_hur2/1777JxR01.prm  
LOGGING MODE: DEPTH DIRECTION: UP  
TOP DEPTH: 30.861 m BOTTOM DEPTH: 873.557 m

#### SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CHT	FILTER ( )	medium (1)		TOP	BOTTOM
Y AXIS CALIPER	FILTER ( )	light (2)		"	"
SPEED	FILTER ( )	medium (1)		"	"
TENSION	FILTER ( )	medium (1)		"	"
X AXIS CALIPER	FILTER ( )	medium (1)		"	"
CN	FILTER ( )	medium (1)		"	"
ZDL	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	"	"

#### ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
ZDL CHI-SMOOTH FILTER	DEN CHISM ( )	ON		TOP	BOTTOM
	PE CHISM ( )	OFF		"	"
DENSITY POROSITY	RHOfluid	1.000	g/cm3	"	"
	RHOmatrix (sand)	2.650	g/cm3	"	"
ZDL	ZDL TRACKING	ON		"	"

### CURVE DESCRIPTION REPORT

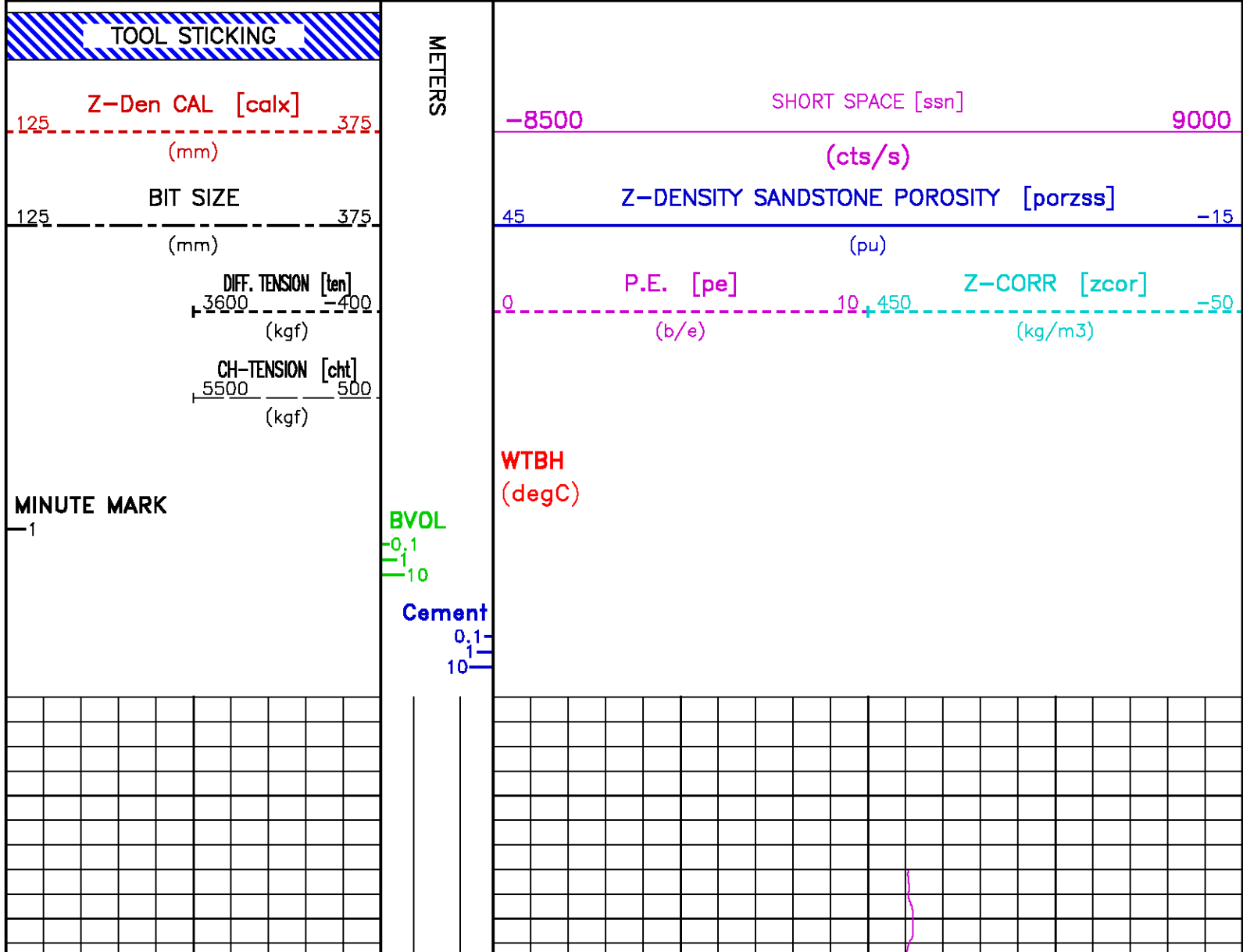
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
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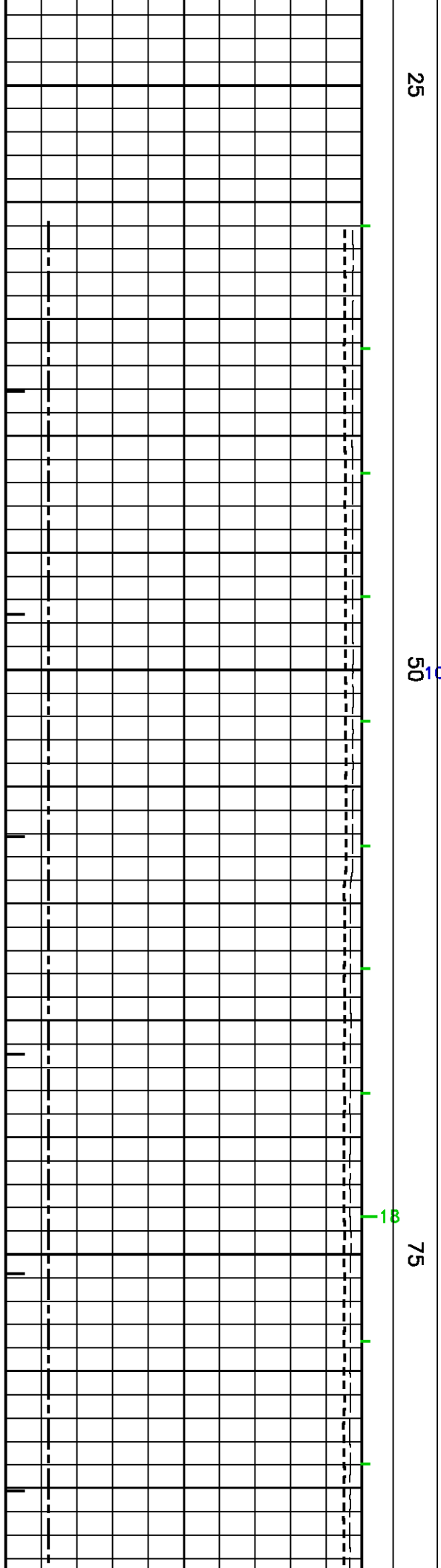
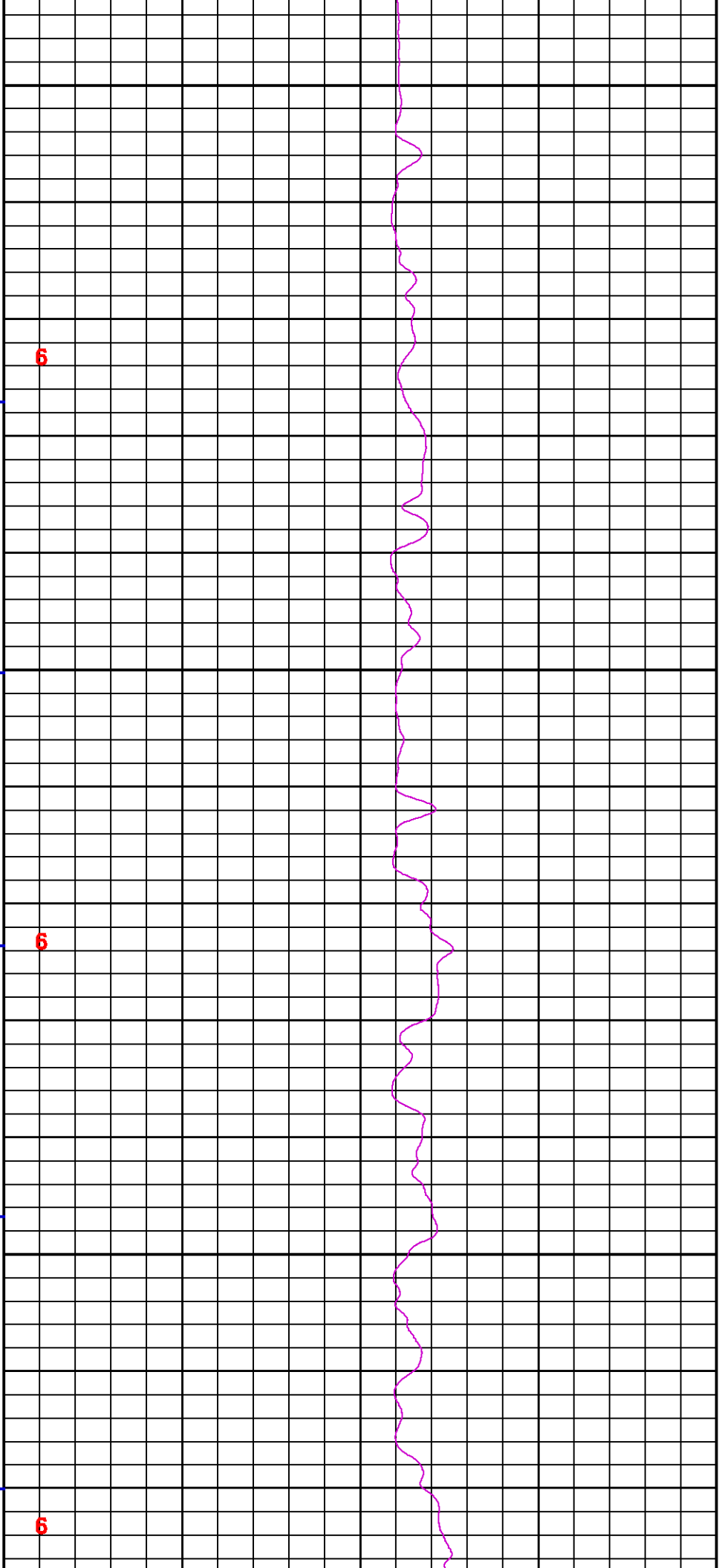
CURVE NAME	CURVE RETRACTION	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT_ZDL	Nov 10 05:40:55 2005	BIT SIZE
F1:BVOL	BVOL	Nov 10 05:40:55 2005	BOREHOLE VOLUME
F1:CALX	CALX	Nov 10 05:40:55 2005	CALIPER FROM X AXIS OF X-Y CALIPER(S)
F1:CHT	CHT	Nov 10 05:40:55 2005	CABLE HEAD TENSION
F1:CVOL	CVOL	Nov 10 05:40:55 2005	CEMENT VOLUME
F1:MMRK	MMRK	Nov 10 05:40:55 2005	MINUTE MARK
F1:PE	PE	Nov 10 05:40:55 2005	PHOTO ELECTRIC CROSS-SECTION
F1:PORZSS	PORZSS	Nov 10 05:40:55 2005	POROSITY FOR SANDSTONE MATRIX
F1:SSN	SSN	Nov 10 05:40:55 2005	SHORT SPACED COUNTRATE
F1:TEN	TEN	Nov 10 05:40:55 2005	DIFFERENTIAL TENSION
F1:WTBH	WTBH	Nov 10 05:40:55 2005	TEMPERATURE OF THE BOREHOLE
F1:ZCOR	ZCOR	Nov 10 05:40:55 2005	DENSITY CORRECTION

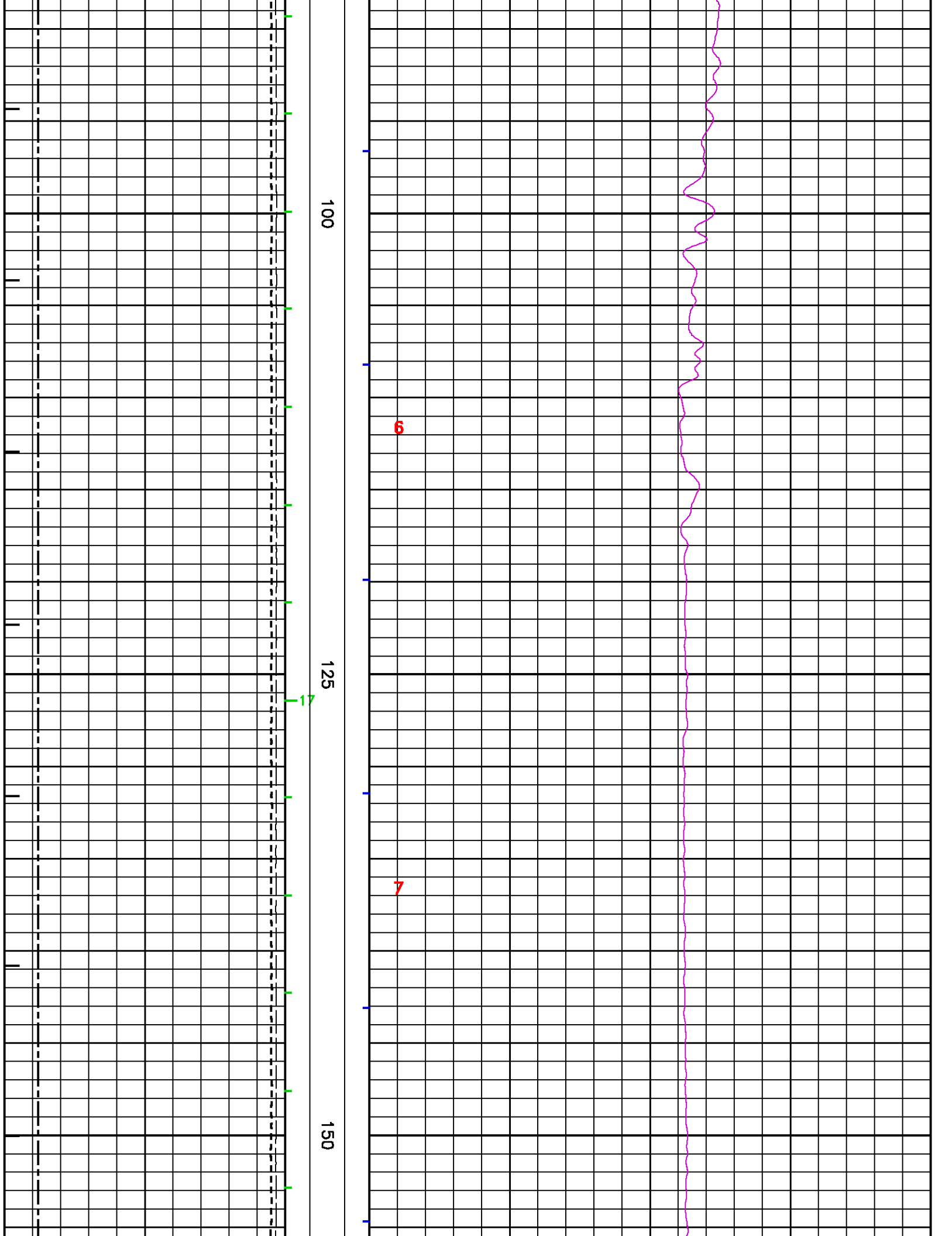
CURVE MEASURE POINT OFFSET

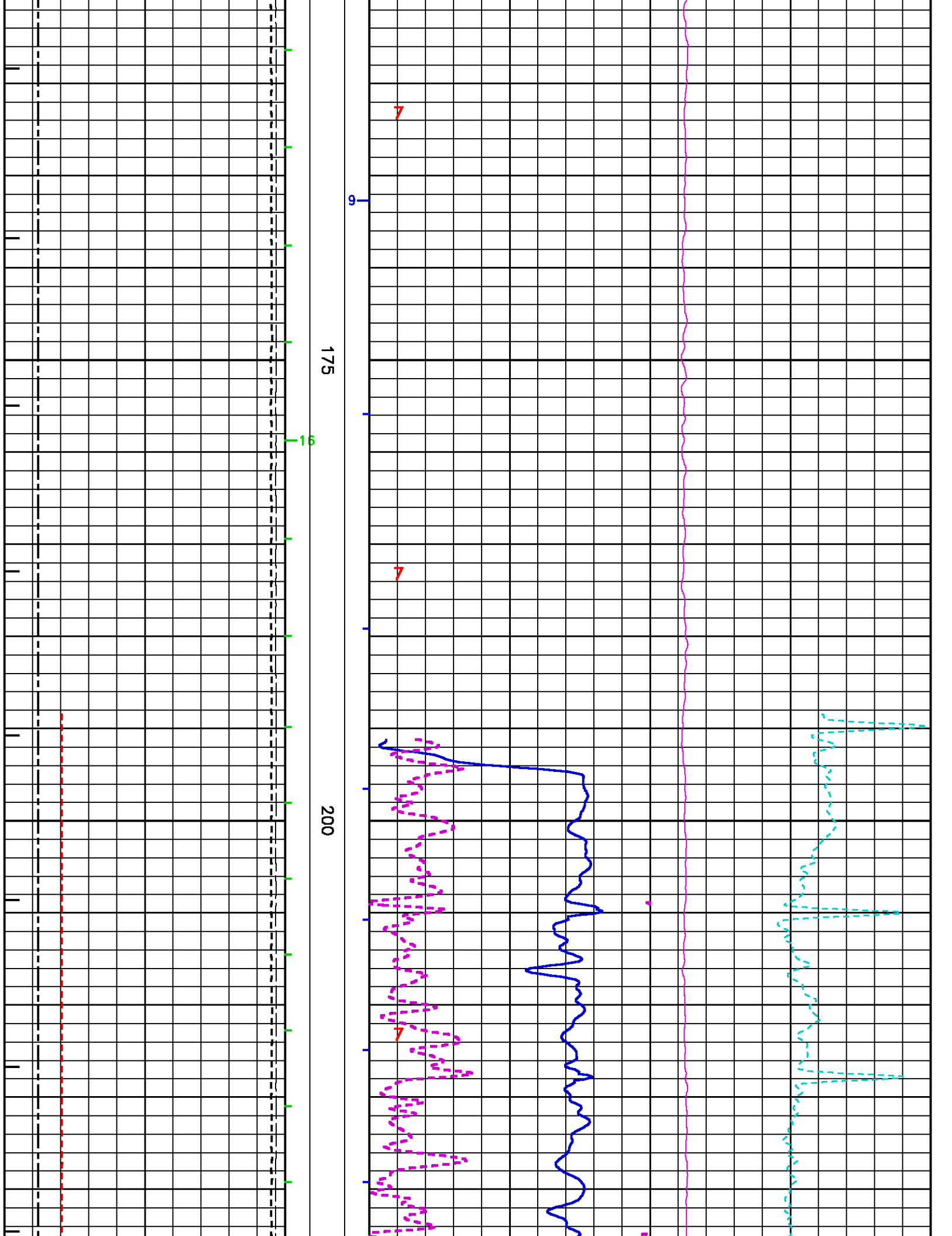
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CHT	0.00	PORZSS	7.92	TEN	0.00
CALX	7.92	PE	7.92	SSN	13.30	ZCOR	7.92

Presentation	: cpu1:/dat1a/pass/vul_hur2/zdl_main_ss.pdf [1:240 Scale]
Plot Interval	: 11.6586 – 873.557 Meters
Data File 1	: F1 : cpu1:/dat1a/pass/vul_hur2/1777JxR01.xtf
Created On	: Nov 10 05:40:55 2005
Company	: VULCAN MINERALS INC
Well	: ST GEORGE
Field	: ST GEORGE
File Interval	: 11.6586 – 873.557 Meters
Oct	: 1777Jx

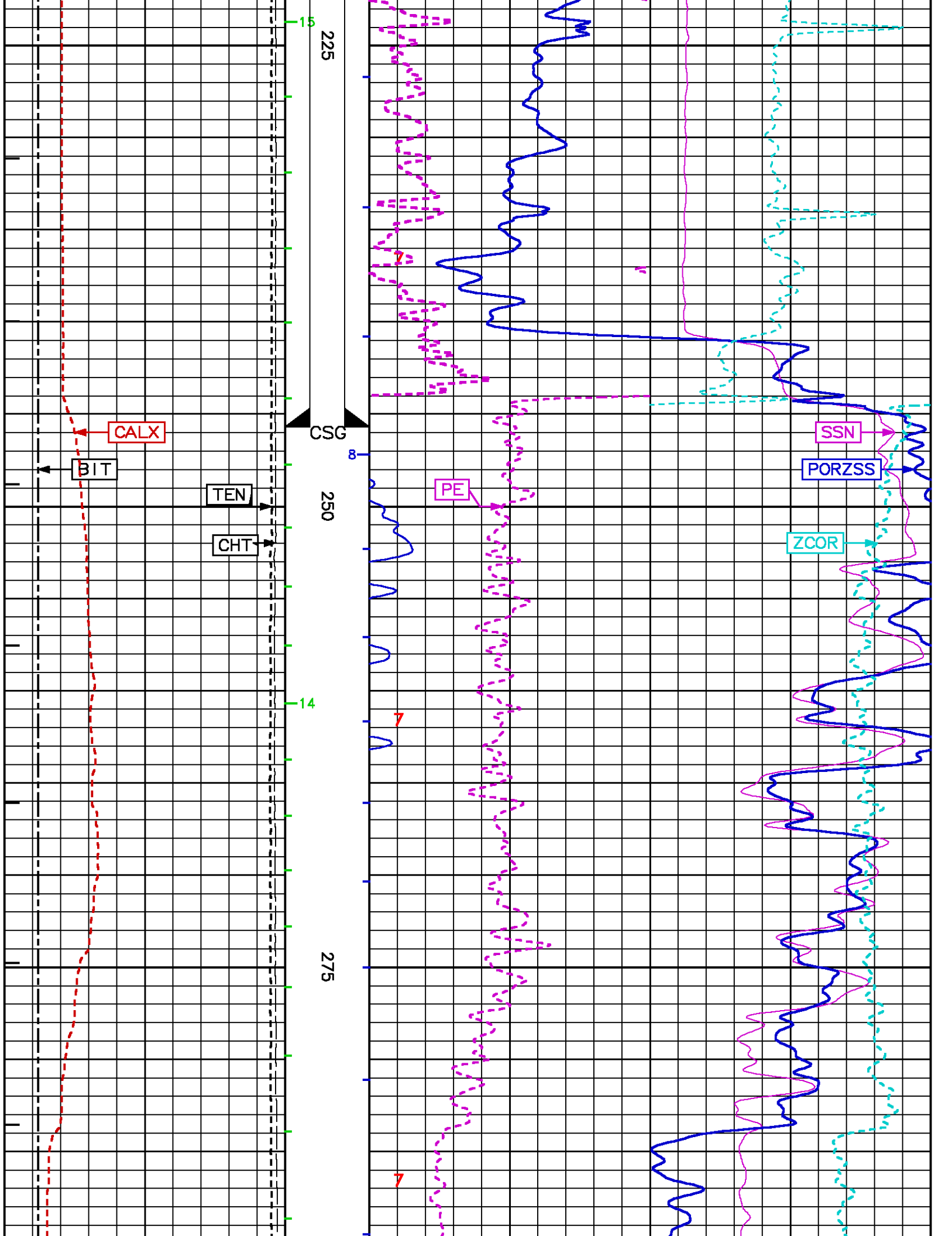


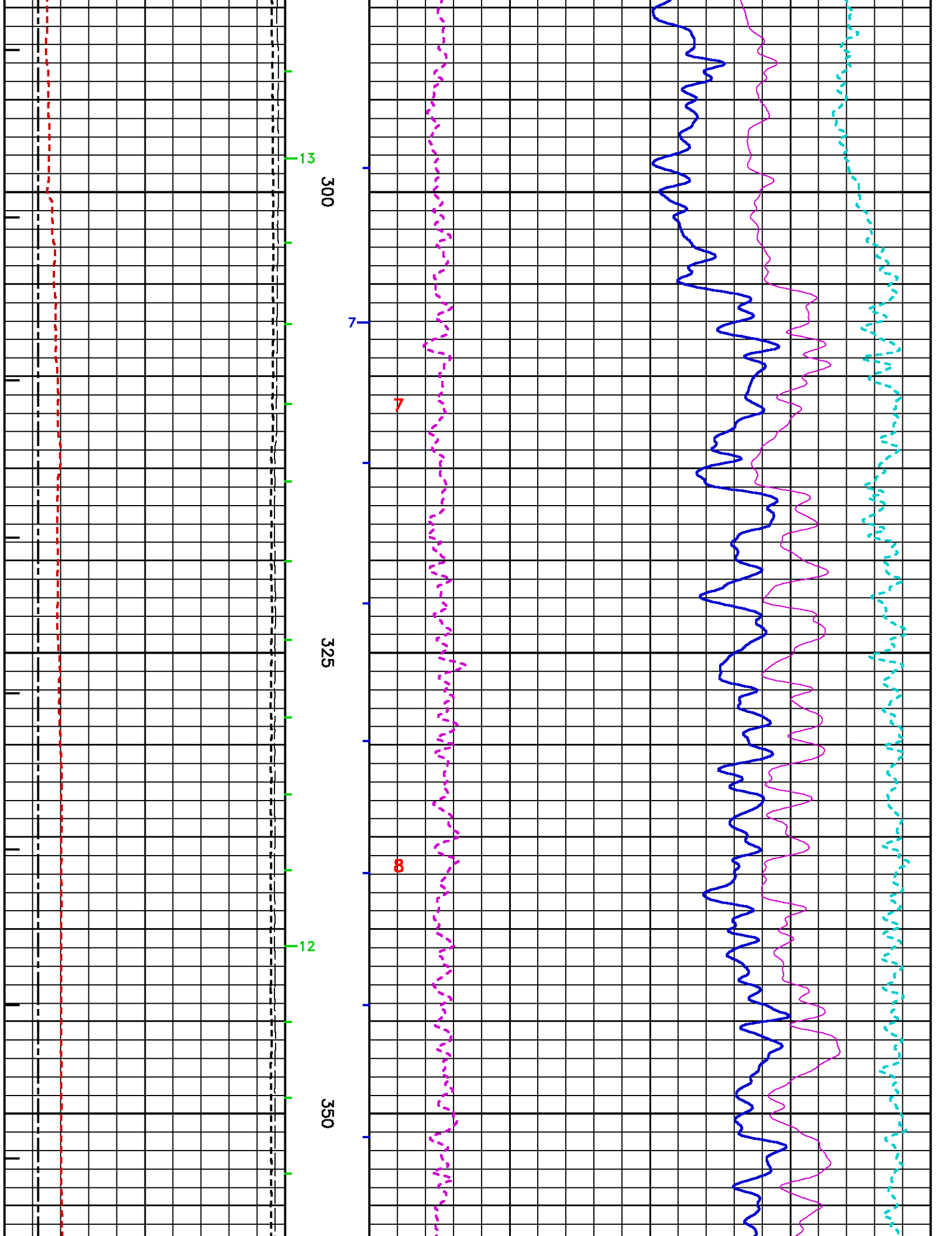


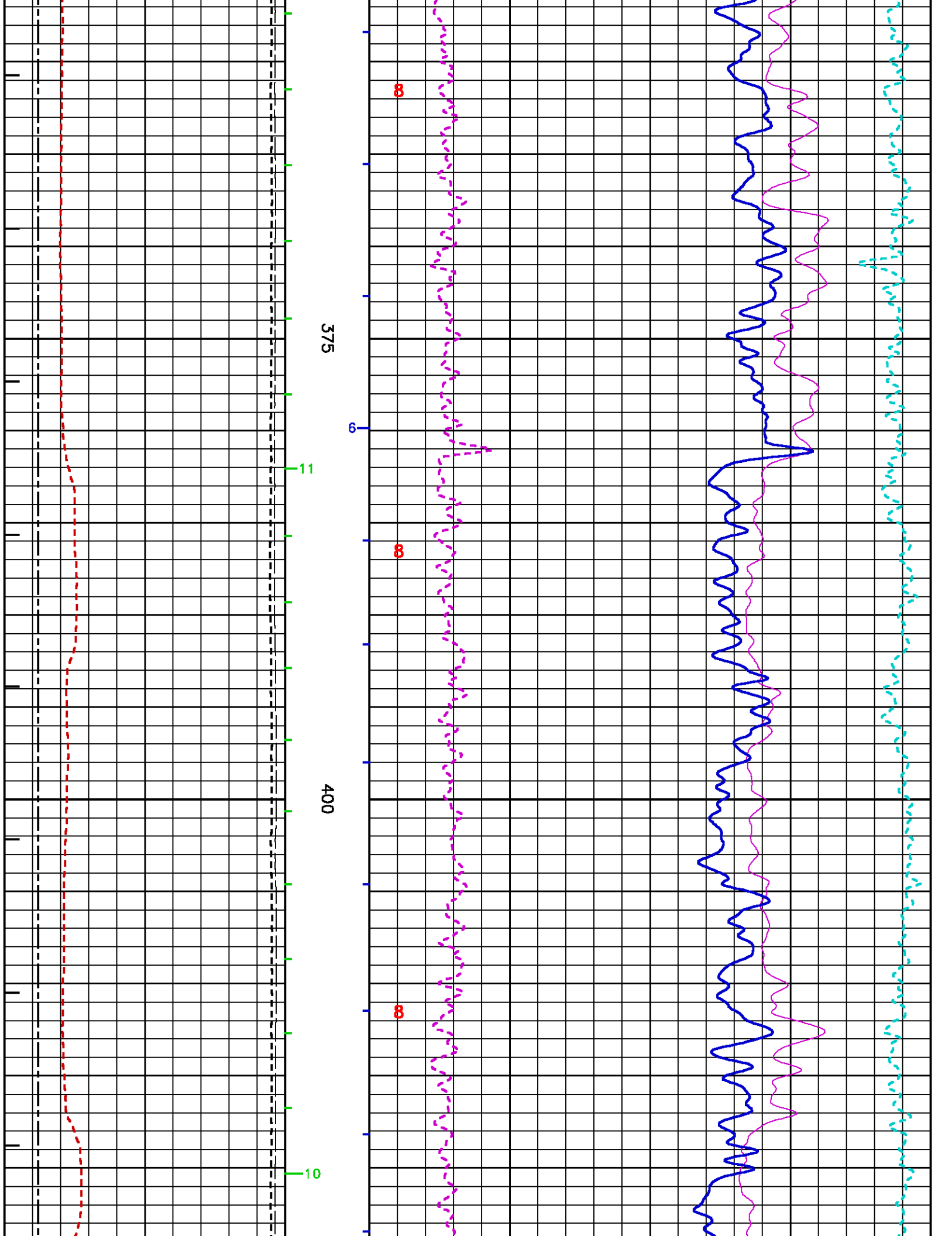


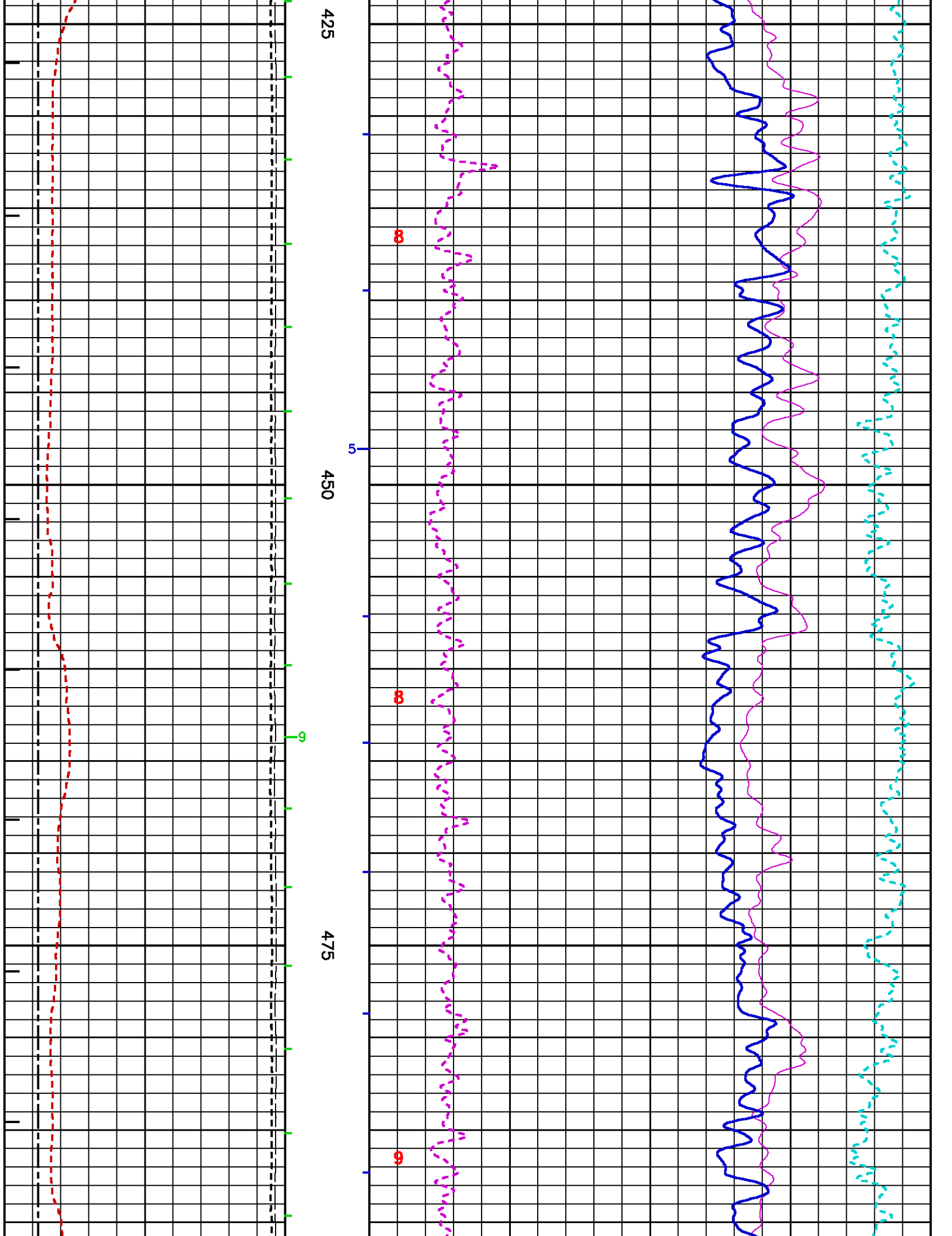


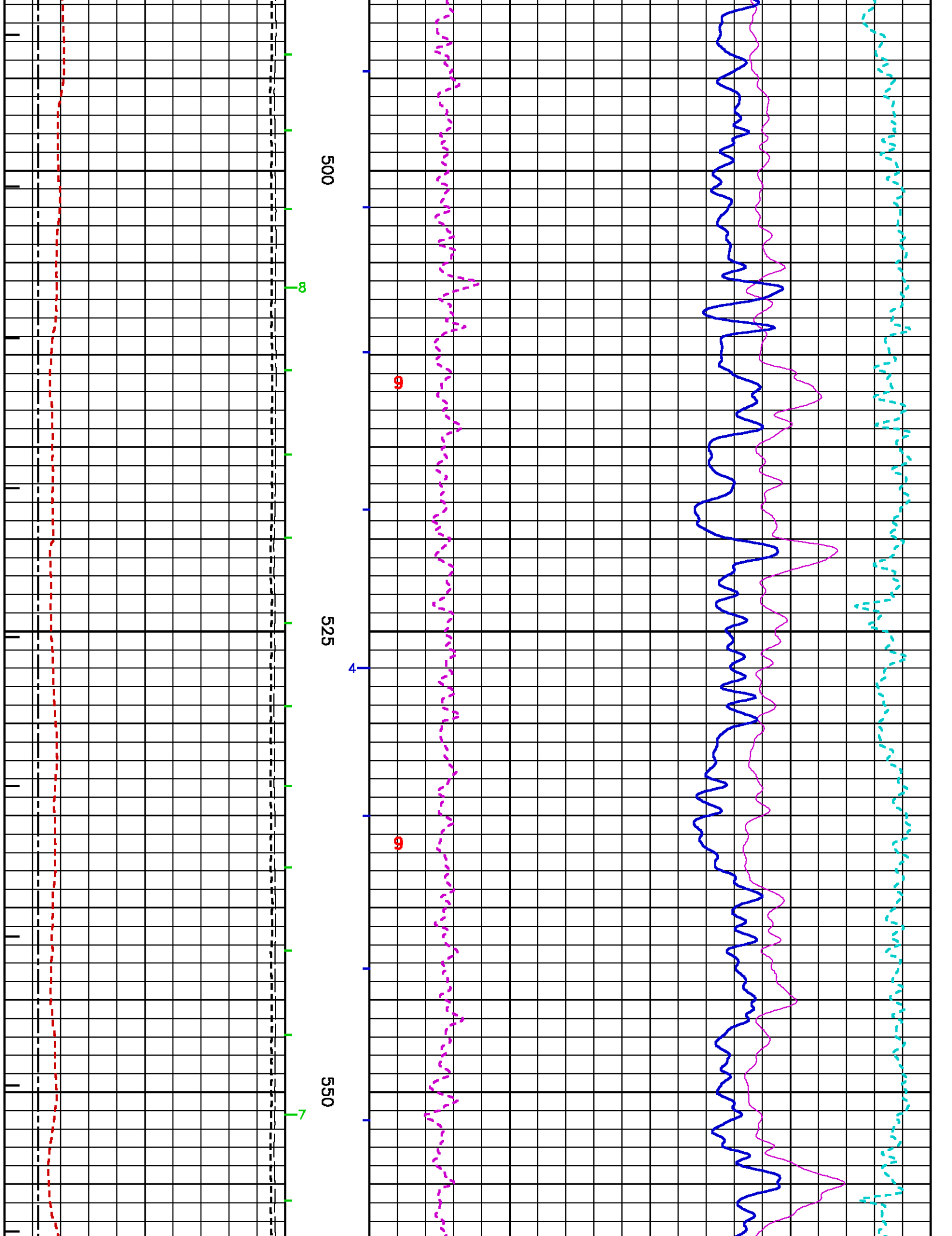


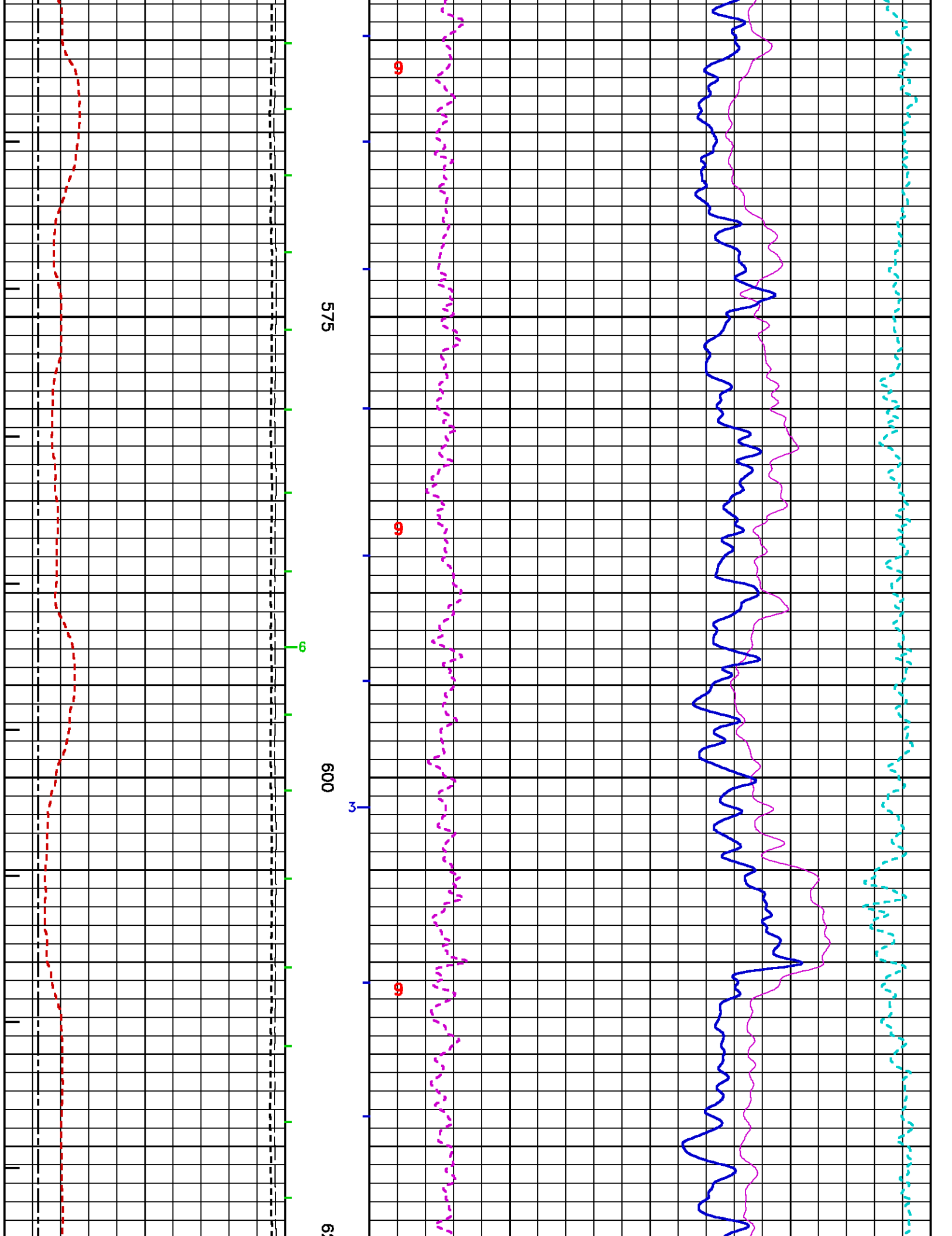


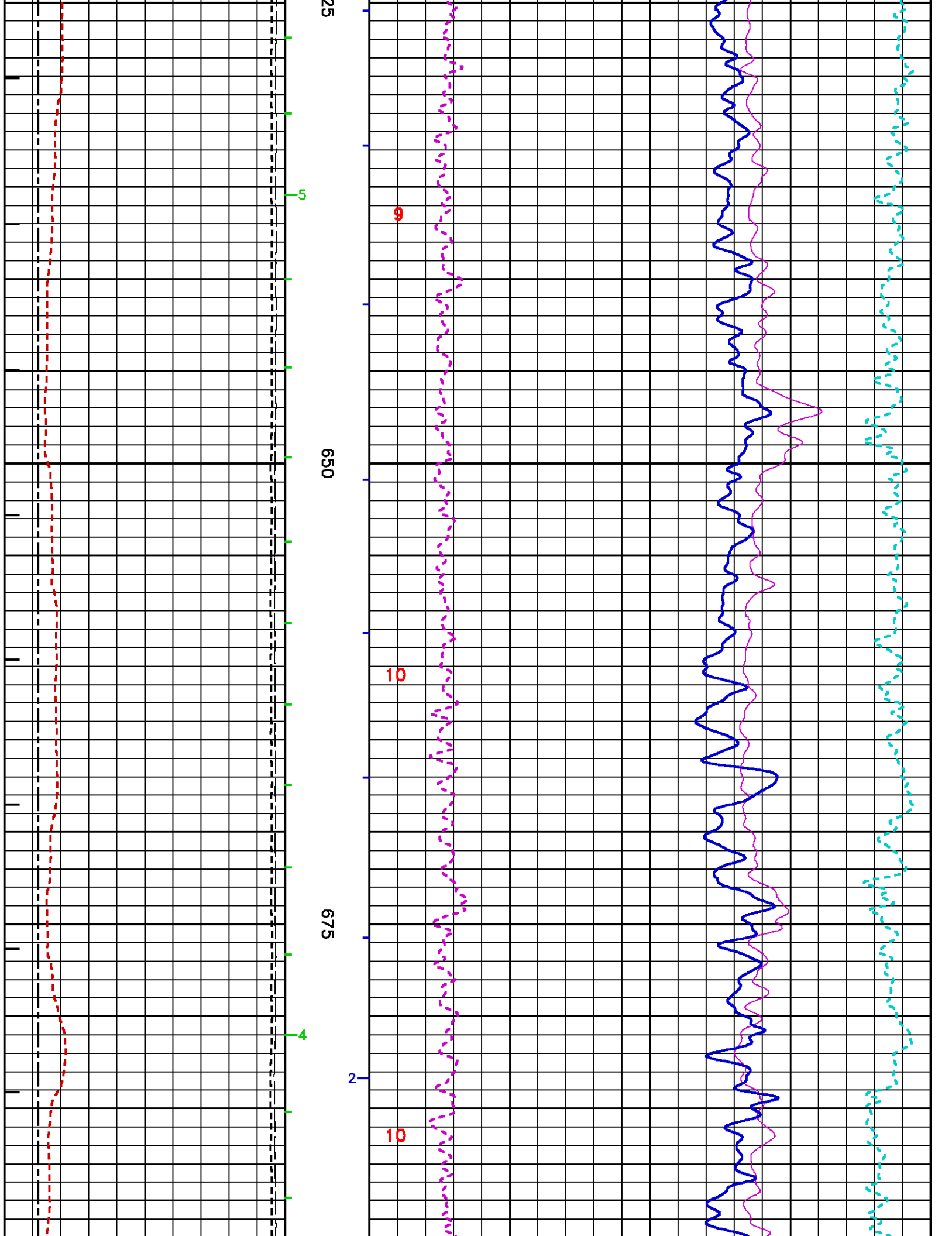


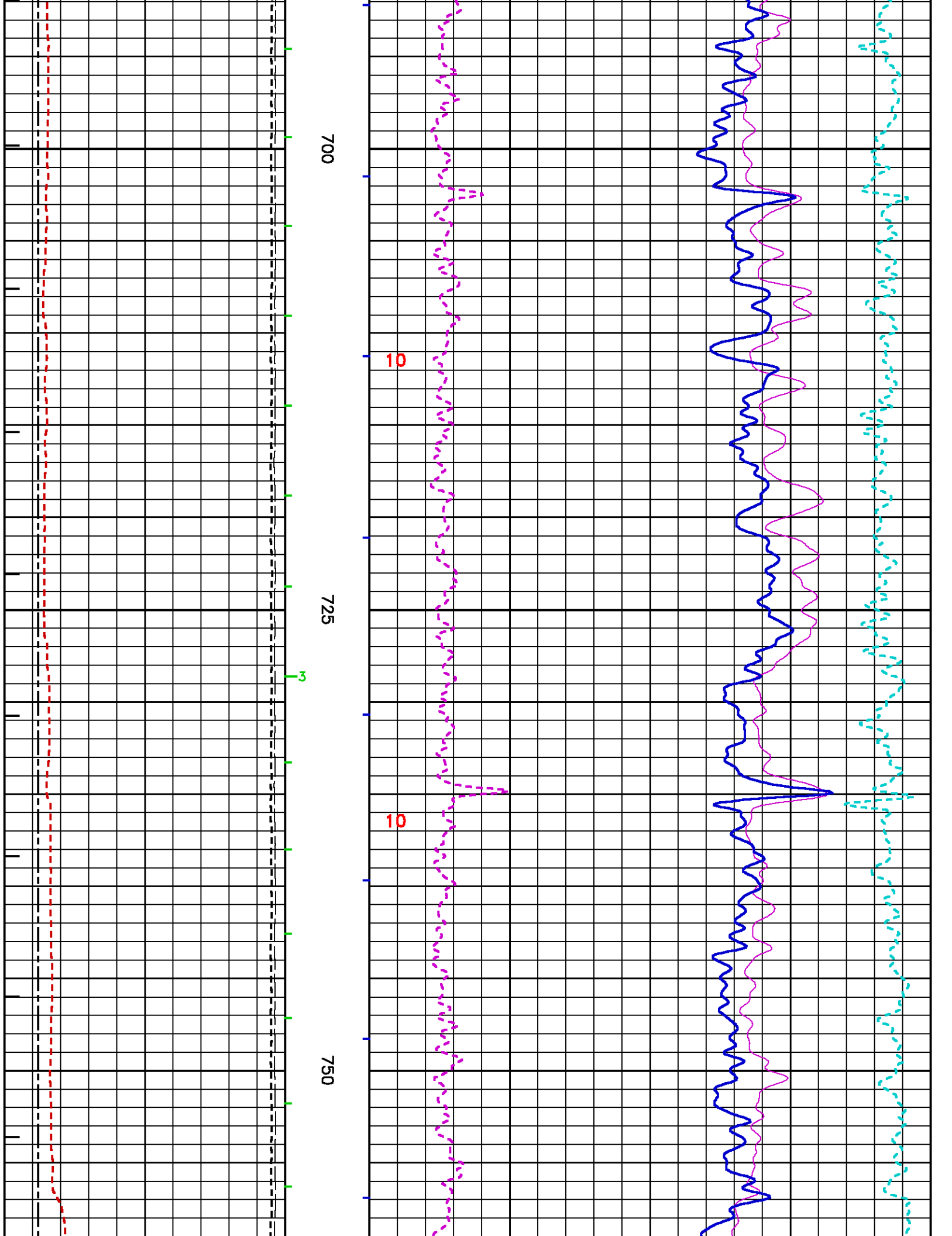




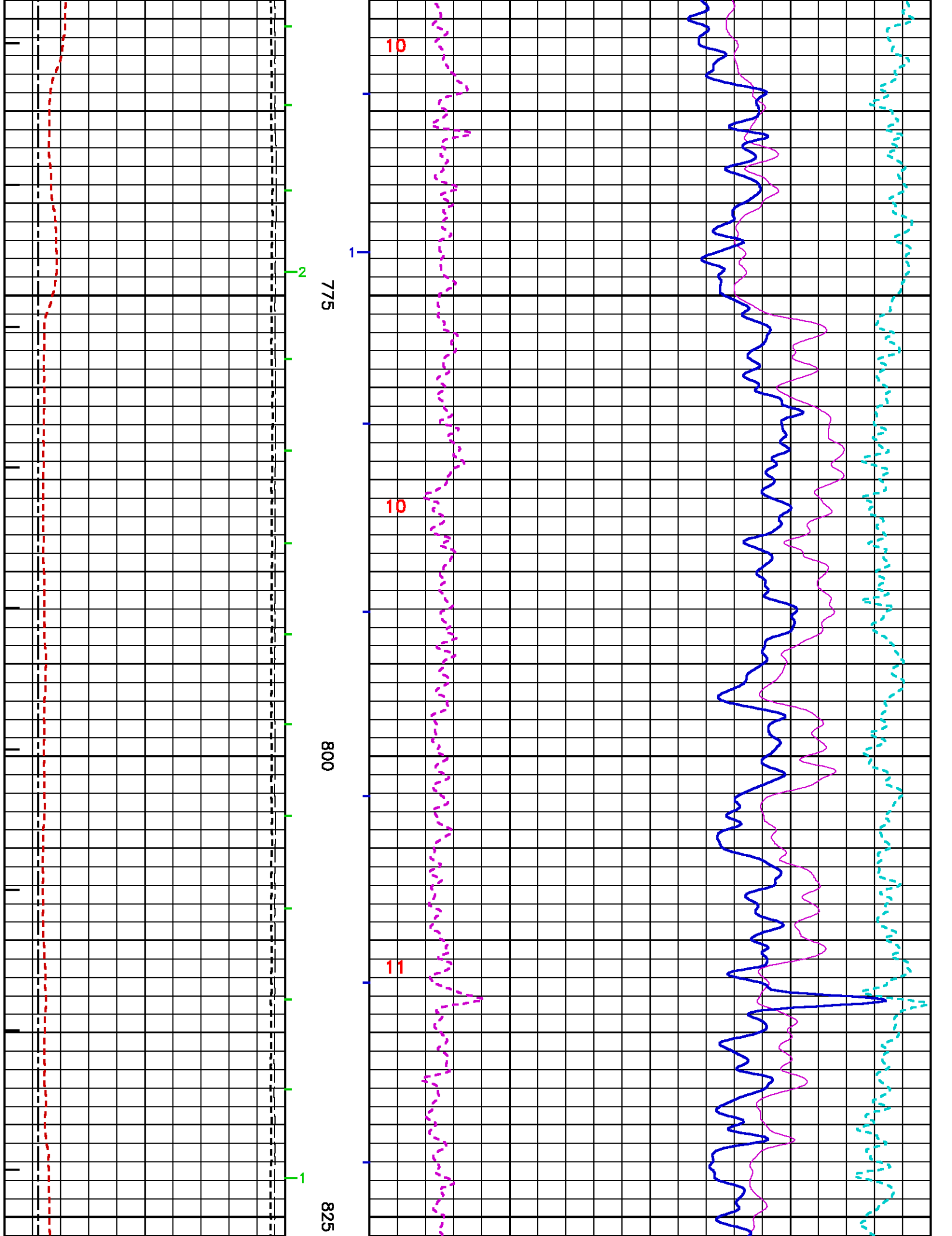


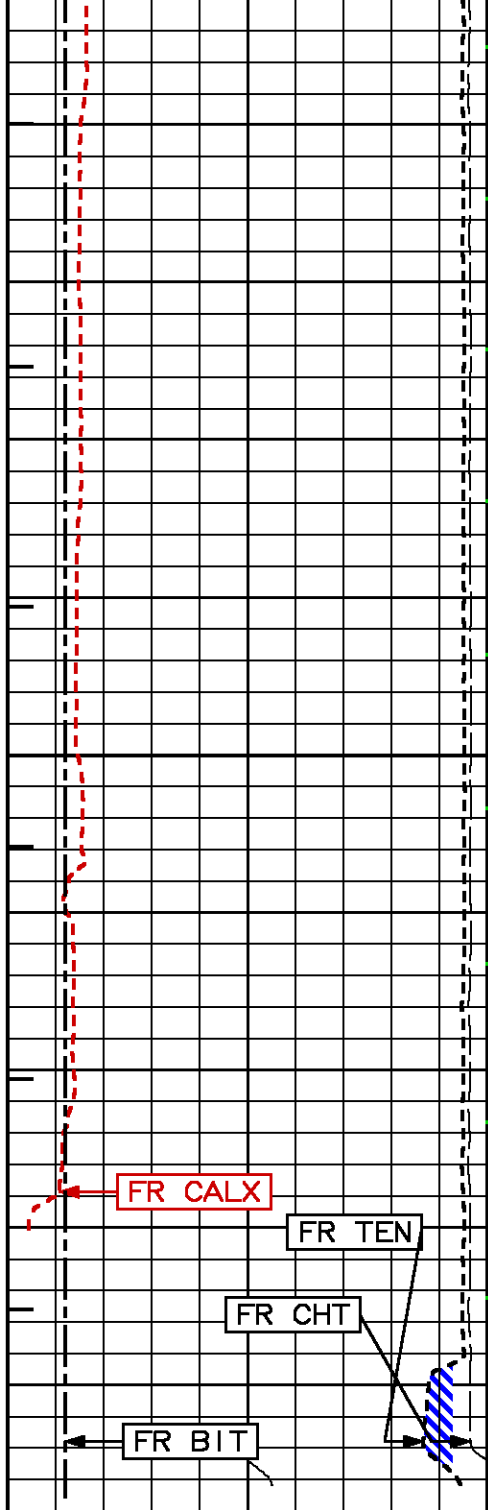




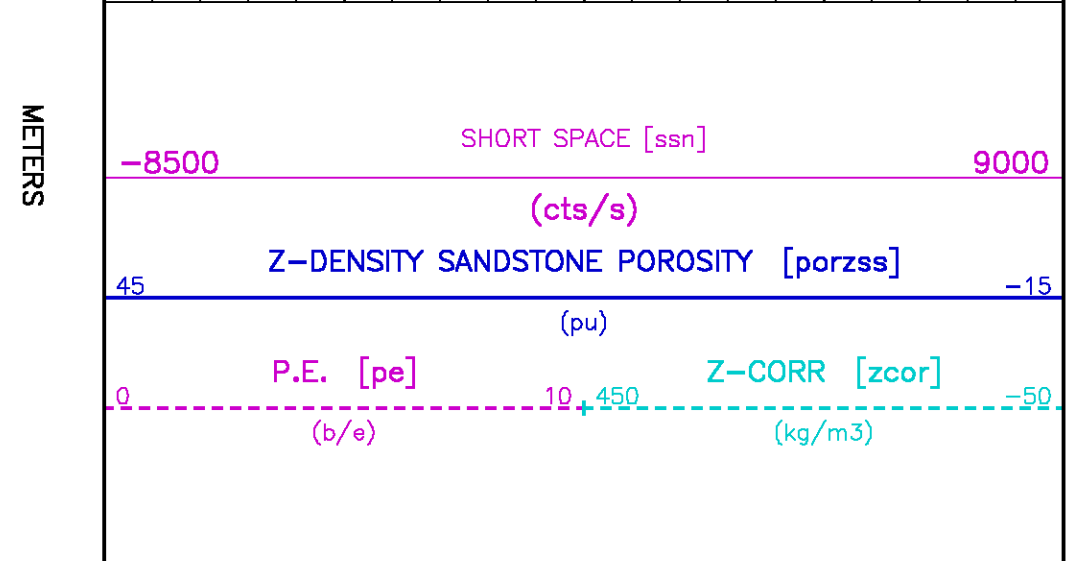
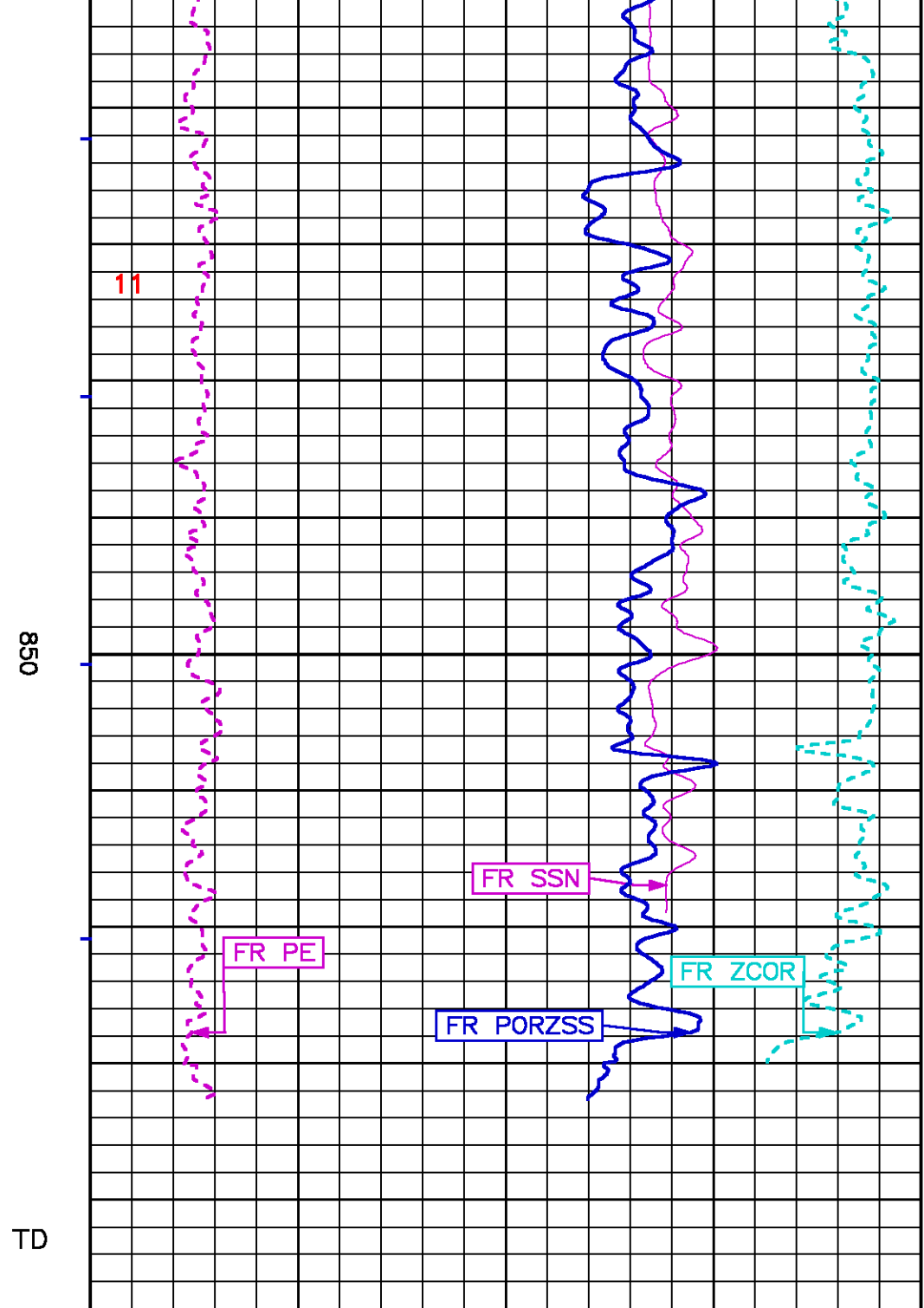
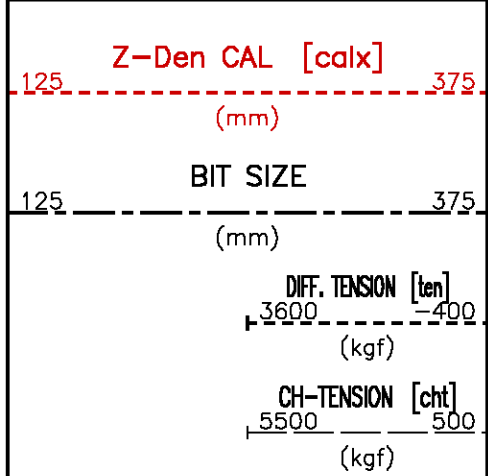








TOOL STICKING



WTRH

MINUTE MARK	WIDTH
1	(degC)
	BVOL
	0.1
	1
	10
	Cement
	0.1
	1
	10

## REPEAT LOG - SANDSTONE MATRIX

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

Pcrplt /main/59

Cplot 7.09  
Pdf\_Cpp /main/16

Thu Nov 10 06:22:27 2005  
Fileview 4.67

### PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pass/vul\_hur2/1777JxR02.prm  
LOGGING MODE: DEPTH DIRECTION: UP  
TOP DEPTH: 762.610 m BOTTOM DEPTH: 874.471 m

#### SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CHT	FILTER ( )	medium (1)		TOP	BOTTOM
Y AXIS CALIPER	FILTER ( )	light (2)		''	''
SPEED	FILTER ( )	medium (1)		''	''
TENSION	FILTER ( )	medium (1)		''	''
X AXIS CALIPER	FILTER ( )	medium (1)		''	''
CN	FILTER ( )	medium (1)		''	''
ZDL	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	''	''

#### ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
ZDL CHI-SMOOTH FILTER	DEN CHISM ( )	ON		TOP	BOTTOM
	PE CHISM ( )	OFF		''	''
DENSITY POROSITY	RHOfluid	1.000	g/cm3	''	''
	RHOfmatrix (sand)	2.650	g/cm3	''	''
ZDL	ZDL TRACKING	ON		''	''

### CURVE DESCRIPTION REPORT

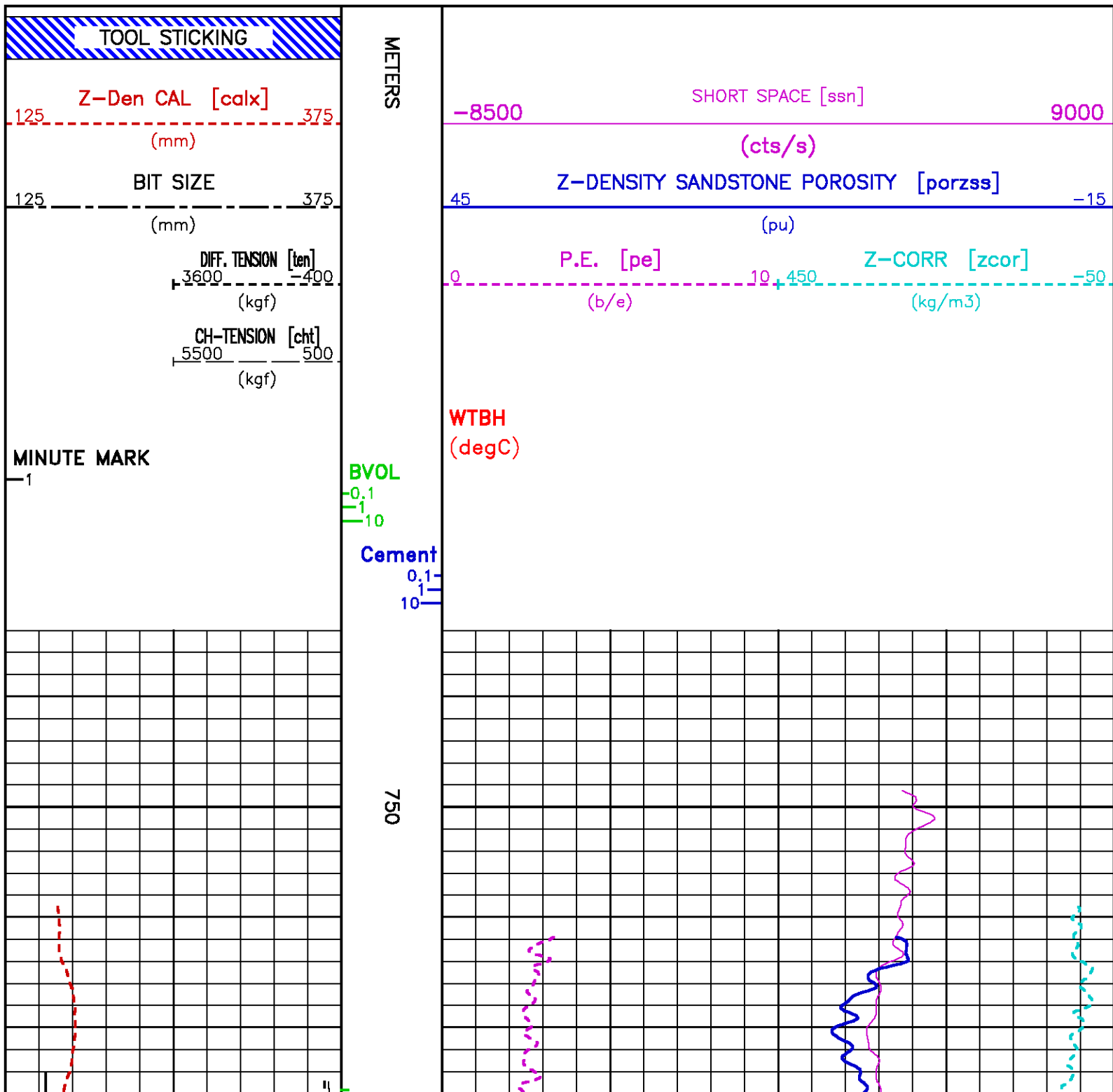
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT_ZDL	Nov 10 05:44:18 2005	BIT SIZE
F1:BVOL	BVOL	Nov 10 05:44:18 2005	BOREHOLE VOLUME
F1:CALX	CALX	Nov 10 05:44:18 2005	CALIPER FROM X AXIS OF X-Y CALIPER(S)
F1:CHT	CHT	Nov 10 05:44:18 2005	CABLE HEAD TENSION
F1:CVOL	CVOL	Nov 10 05:44:18 2005	CEMENT VOLUME
F1:MMRK	MMRK	Nov 10 05:44:18 2005	MINUTE MARK
F1:PE	PE	Nov 10 05:44:18 2005	PHOTO ELECTRIC CROSS-SECTION
F1:PORZSS	PORZSS	Nov 10 05:44:18 2005	POROSITY FOR SANDSTONE MATRIX
F1:SSN	SSN	Nov 10 05:44:18 2005	SHORT SPACED COUNTRATE
F1:TEN	TEN	Nov 10 05:44:18 2005	DIFFERENTIAL TENSION
F1:WTBH	WTBH	Nov 10 05:44:18 2005	TEMPERATURE OF THE BOREHOLE

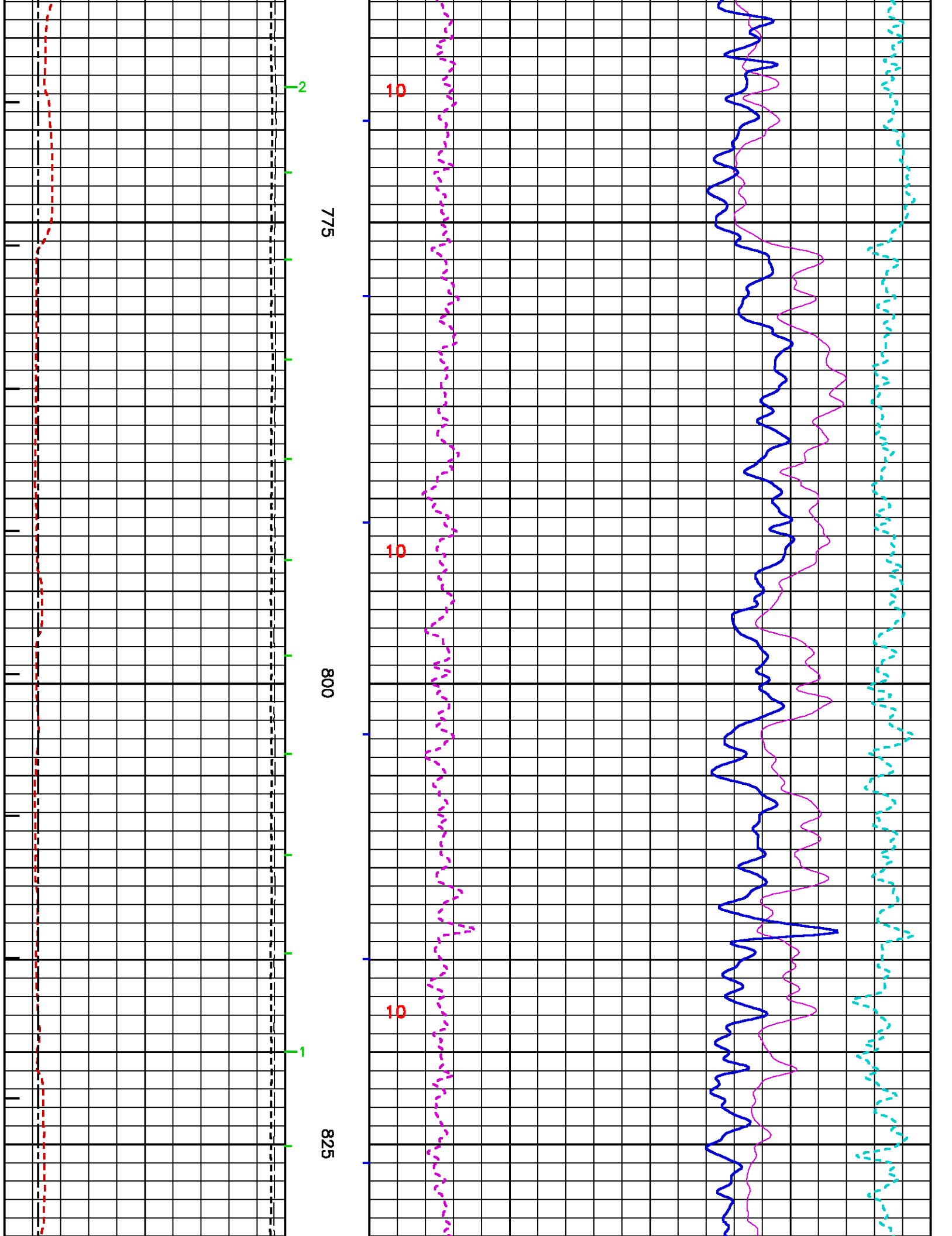
## CURVE MEASURE POINT OFFSET

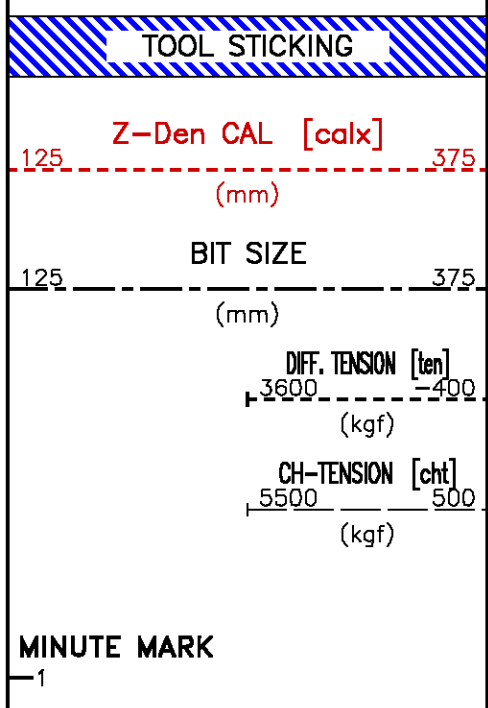
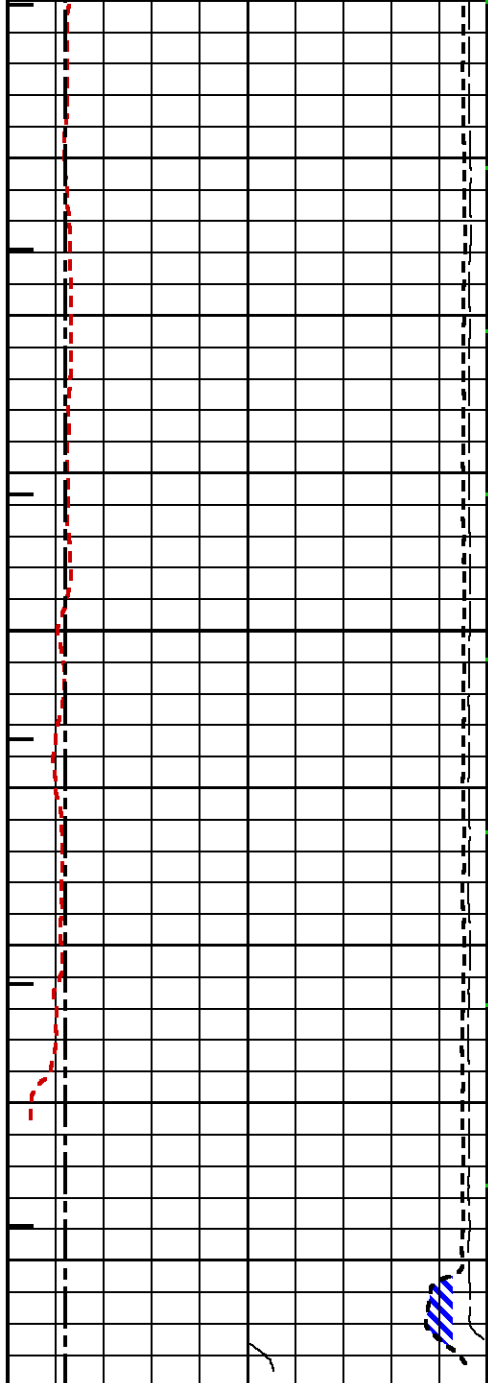
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT CALX	0.00 7.92	CHT PE	0.00 7.92	PORZSS SSN	7.92 13.30	TEN ZCOR	0.00 7.92

Presentation : cpu1:/dat1a/pass/vul\_hur2/zd\_repeat\_ss.pdf [1:240 Scale]  
Plot Interval : 742.874 - 873.938 Meters

Data File 1 : F1 : cpu1:/dat1a/pass/vul\_hur2/1777JxR02.xtf  
Created On : Nov 10 05:44:18 2005  
Company : VULCAN MINERALS INC  
Well : ST GEORGE  
Field : ST GEORGE  
File Interval : 742.874 - 874.014 Meters  
Oct : 1777Jx

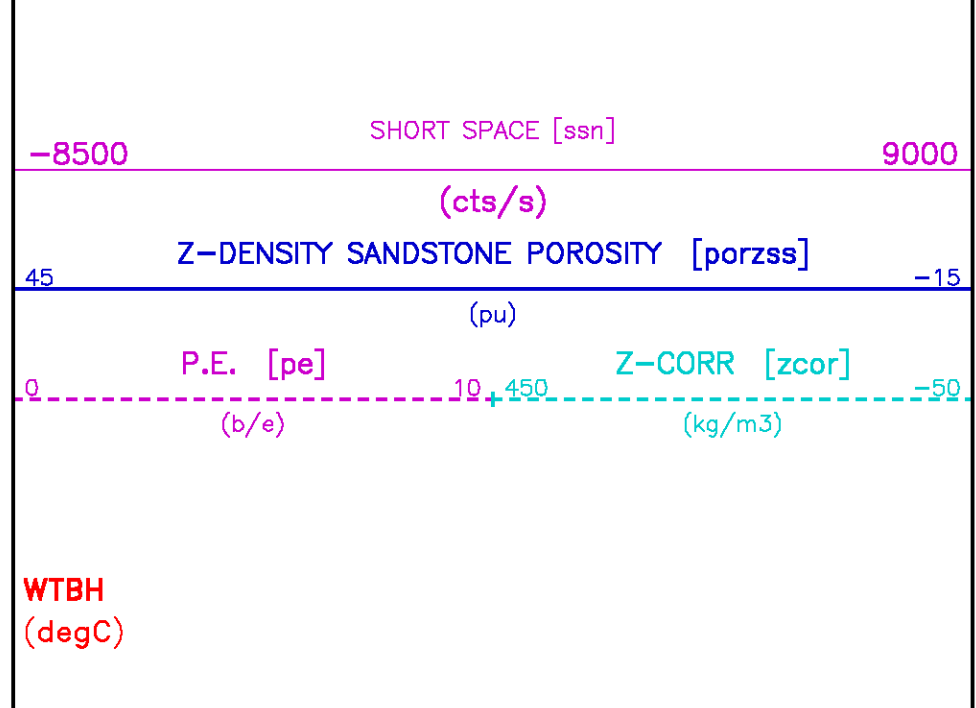
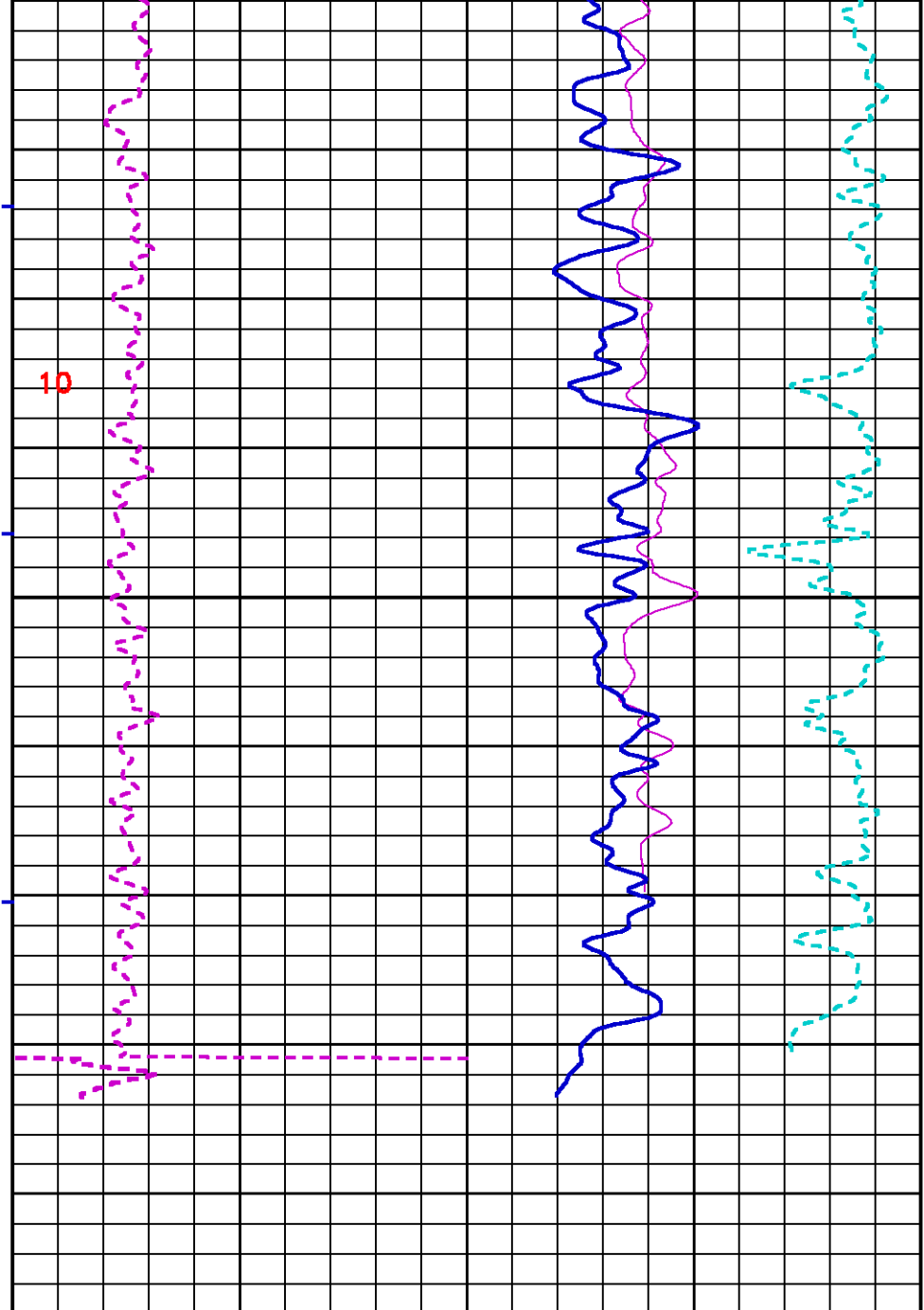






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## CALIBRATION / VERIFICATION SUMMARY

Source File: /data/pass/vul\_hur2/zdl.tp1

### CHT PRIMARY CALIBRATION SUMMARY

TOOL #: 3981XA 179328

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

UNIT #: 3807TA 008616

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

## 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\_II 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	Chi Sqr qsa	QCAL	GAIN	QPKS
SPECTRUM	70.986	1.261	1.385	0.994	2996	5
				0.980 1.020		

	P1 .352 MeV	P2 .609 MeV	P3 1.120 MeV	P4 1.765 MeV	P5 2.204 MeV
SL_II	25.88	14.83	24.88	187.46	152.88



Std Pk	25.80	44.20	81.00	127.40	159.00
Meas Pk	25.47	44.49	81.76	127.38	156.67
	22.80 28.80	40.20 48.20	76.00 86.00	121.40 133.40	152.00 166.00
Fit Pk	26.25	44.49	80.77	126.55	157.71

## SL\_II 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	Chi 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	Chi Sqr qsa	QCAL	GAIN	QPKS
SPECTRUM	70.024	2.501	0.722	0.991 0.980 1.020	2895	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	26.60 22.80 28.80	45.17 40.20 48.20	81.55 76.00 86.00	126.78 121.40 133.40	156.05 152.00 166.00
Fit Pk	27.15	45.15	80.93	126.09	156.83

## SL\_I 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	Chi Sqr qsa	QCAL	GAIN	QPKS
SPECTRUM	70.477	2.426	0.640	0.997 0.980 1.020	2895	5

P1 .352 MeV	P2 .609 MeV	P3 1.120 MeV	P4 1.765 MeV	P5 2.204 MeV
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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

## CN PRIMARY CALIBRATION SUMMARY

TOOL #: 2446XA 173080

DATE/TIME PERFORMED: Fri Sep 23 16:23:00 2005

UNIT #: 3807TA 008616

CALIBRATOR #: 2437XB 1131140

SOURCE #: 4717XS 048462

	MEASURED CPS	DEADTM CORR CPS	DTC SSN/LSN	NOMINAL SSN/LSN	CORRECTION FACTOR	POROSITY (pu)
LSN	754.45	768.36				
SSN	1980.28	2061.95				
RATIO			2.68356	2.75100	1.02513	
					0.97000 1.07000	
CN						21.358

## CN PRIMARY VERIFICATION SUMMARY

TOOL #: 2446XA 173080

DATE/TIME PERFORMED: Fri Sep 23 16:31:51 2005

UNIT #: 3807TA 008616

ICE BLOCK #: 4717ND 00T-210

	MEASURED CPS	DEADTM CORR CPS	DTC SSN/LSN	CORRECTION FACTOR	DTC CORR SSN/LSN	POROSITY (pu)
LSN	1002.36	1027.09				
SSN	1253.32	1285.57				
RATIO			1.25167	1.02513	1.28436	
CN						3.255

## CN BEFORE LOG VERIFICATION SUMMARY

NOT DONE

## CN AFTER LOG VERIFICATION SUMMARY

TOOL #: 2446XA 173080

DATE/TIME PERFORMED: Thu Nov 10 07:07:29 2005

UNIT #: 3807TA 008616

ICE BLOCK #: 4717ND 00T-210

	MEASURED CPS	DEADTM CPS	CORR	DTC SSN/LSN	CORRECTION FACTOR	DTC CORR SSN/LSN	POROSITY (pu)
LSN	986.59	1010.54					
SSN	1192.53	1221.70					
RATIO				1.20895	1.02513	1.24044	
CN							2.773 1.255 5.255

## CAL PRIMARY CALIBRATION SUMMARY

TOOL #: 2228MA 153038

DATE/TIME PERFORMED: Fri Sep 23 18:29:49 2005

UNIT #: 3807TA 008616

	SMALL RING (raw)	LARGE RING (raw)	MULT	ADD	SMALL RING (mm)	LARGE RING (mm)
CALIPER	1415.0	2361.5	0.16101	-75.43520	152.400	304.800

## CAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2228MA 153038

DATE/TIME PERFORMED: Thu Nov 10 02:39:27 2005

UNIT #: 3807TA 008616

	I.D. (raw)	MULT	ADD	I.D. (mm)
CALIPER	1530.2	0.16101	-80.28400	166.100

## CAL AFTER LOG VERIFICATION SUMMARY

TOOL #: 2228MA 153038

DATE/TIME PERFORMED: Thu Nov 10 05:22:21 2005

UNIT #: 3807TA 008616

	I.D. (raw)	MULT	ADD	I.D. (mm)
CALIPER	1598.2	0.16101	-80.28400	177.049 153.400 178.800

## ZDL PRIMARY CALIBRATION SUMMARY

TOOL #: 2228MA 153038

DATE/TIME PERFORMED: Fri Sep 23 17:54:07 2005

UNIT #: 3807TA 008616

CALB. BLOCK SET: 2225XA 112691

CS SOURCE #: 4703NT 001012

	SSD-NDTC (cts/s)	HRD1-NDTC (cts/s)	HRD2-NDTC (cts/s)	SHR	DEN (kg/m <sup>3</sup> )	CORR (kg/m <sup>3</sup> )	PE (b/e)
MG BLOCK (LO PE)	10938.9	4475.3	5445.4	0.676 0.625 0.725	1691.000	9.000	2.187
AL BLOCK	5490.5	457.6	582.0		2683.000	-12.000	
AL+SHIM (CORR)	7624.1	803.4	987.2		2607.000	169.000	
MG+SHIM (HI PE)		2152.7	2766.9	0.281 0.260 0.310			10.177
RATIO MG/AL	1.99 1.97 2.07	9.78 8.80 10.40	9.36 8.75 9.75				

BACKGROUND (cts/s)	CS PEAK CHANNEL #	AM PEAK CHANNEL #
952.7	228.2 225.0 235.0	23.1 21.0 25.0

## ZDL PRIMARY VERIFICATION SUMMARY

TOOL #: 2228MA 153038

DATE/TIME PERFORMED: Fri Sep 23 18:02:40 2005

UNIT #: 3807TA 008616

VERI. JIG #: 4704NA 1120/1128

	SSD-NDTC (cts/s)	HRD1-NDTC (cts/s)	HRD2-NDTC (cts/s)	SHR	DEN (kg/m <sup>3</sup> )	CORR (kg/m <sup>3</sup> )	PE (b/e)
FIELD BLOCK	8710.0	1853.1	4424.2	0.186	1829.779	-71.057	15.527

## ZDL BEFORE LOG VERIFICATION SUMMARY

NOT DONE

## ZDL AFTER LOG VERIFICATION SUMMARY

TOOL #: 2228MA 153038

DATE/TIME PERFORMED: Thu Nov 10 06:59:59 2005

UNIT #: 3807TA 008616

VERI. JIG #: 4704NA 1120/1128

	SSD-NDTC (cts/s)	HRD1-NDTC (cts/s)	HRD2-NDTC (cts/s)	SHR	DEN (kg/m <sup>3</sup> )	CORR (kg/m <sup>3</sup> )	PE (b/e)
FIELD BLOCK	8562.4	1841.3	4404.6	0.186 0.166 0.206	1817.419 1804.779 1854.779	-85.670 -96.057 -46.057	15.543



COMPANY

VULCAN MINERALS INC

FILE NO:

**BAKER  
HUGHES**

WELL HURICANE #1 (BACKSTRETCH #2)  
FIELD ST GEORGES BAY  
PROVINCE NEWFOUNDLAND

API NO:  
\_\_\_\_\_

LOCATION:

LIC: 2005-116-01-03

ELEVATIONS:

KB 3.3 M

DF

GL 135 M

LAT 377200 LONG 5344600 M

DATE 10-NOV-2005

**Baker Atlas**

**ECLIPS**