



COMPENSATED Z-DENSILOGSM
COMPENSATED NEUTRON LOG
GAMMA RAY LOG
X-Y AXIS CALIPER LOG

Baker Atlas

FILE NO:	COMPANY	NALCOR ENERGY	
API NO:	WELL	NALCOR ET AL FINNEGAN #1	
	FIELD	FINNEGAN	
	PROVINCE	NEWFOUNDLAND AND LABRADOR	
Ver. 3.87	LOCATION:	OTHER SERVICES	
LICENSE: 2010-128-04	LAT 49.92 N LONG 63.33 W	HDIL-CAL-CR XMAC-CR RCOR / VSP BHP SBT	
PERMANENT DATUM	G.L. ELEVATION	ELEVATIONS:	
LOG MEASURED FROM	K.B. 6.25 M ABOVE P.D.	KB 125.00 M	
DRILL MEAS. FROM	KELLY BUSHING	DF GL 118.75 M	
DATE	27-NOV-2010		
RUN	TRIP	2	2
SERVICE ORDER	CA209243		
DEPTH DRILLER	3130.0 M		
DEPTH LOGGER	NA		
BOTTOM LOGGED INTERVAL	3012.3 M		
TOP LOGGED INTERVAL	2275.0 M		
CASING DRILLER	244.5 MM	② 2276.0 M	
CASING LOGGER	2275.0 M		
BIT SIZE	216.0 MM		
TYPE OF FLUID IN HOLE	GELCHEM		
DENSITY	1245.0 G/L	82.0 S	
PH	10.0	5.7 ML	
SOURCE OF SAMPLE	TOOL MEASURED		
RM AT MEAS. TEMP.	0.510 OHMM	② 57.0 DEGC	②
RMF AT MEAS. TEMP.	0.440 OHMM	② 57.0 DEGC	②
RMC AT MEAS. TEMP.	0.610 OHMM	② 57.0 DEGC	②
SOURCE OF RMF	RMC	CALCULATED	CALCULATED
RM AT BHT	0.51 OHMM	② 57.0 DEGC	②
TIME SINCE CIRCULATION	14.3 HOURS		
MAX. RECORDED TEMP.	57.0 DEGC		
EQUIP. NO.	HL4291	OH NISKU	
RECORDED BY	S. CREWE\J. HOUSE		
WITNESSED BY	R. STRICKLAND\N. WATSON		

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT. BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

BOREHOLE RECORD

BIT SIZE	FROM	TO
444.5 MM	0.0 M	570.0 M
311.0 MM	570.0 M	2285.0 M
216.0 MM	2285.0 M	3130.0 M

CASING RECORD

SIZE	WEIGHT	GRADE	FROM	TO
339.7 MM	81.1 KG/M	K-55	0.0 M	570.0 M
244.5 MM	64.7 KG/M	NA	570.0 M	2276.0 M
177.8 MM				

REMARKS

RUN 2 TRIP 2 : TIME STOPPED CIRCULATION: 27-NOV-2010 09:30 AM

TD NOT LOGGED DUE TO DOWNHOLE CONDITIONS.

SAMPLE MEASURED:

RM 0.955 @ 15.2 DEG
RMF 0.825 @ 15.2 DEG
RMC 1.146 @ 15.2 DEG

CNC IS AVERAGE CALIPER CORRECTED.
CNC AND PORZ RECORDED AND PRESENTED IN SANDSTONE MATRIX 2.71G/CM3.
AND DOLOMITE MATRIX = 2.86 G/CM3.

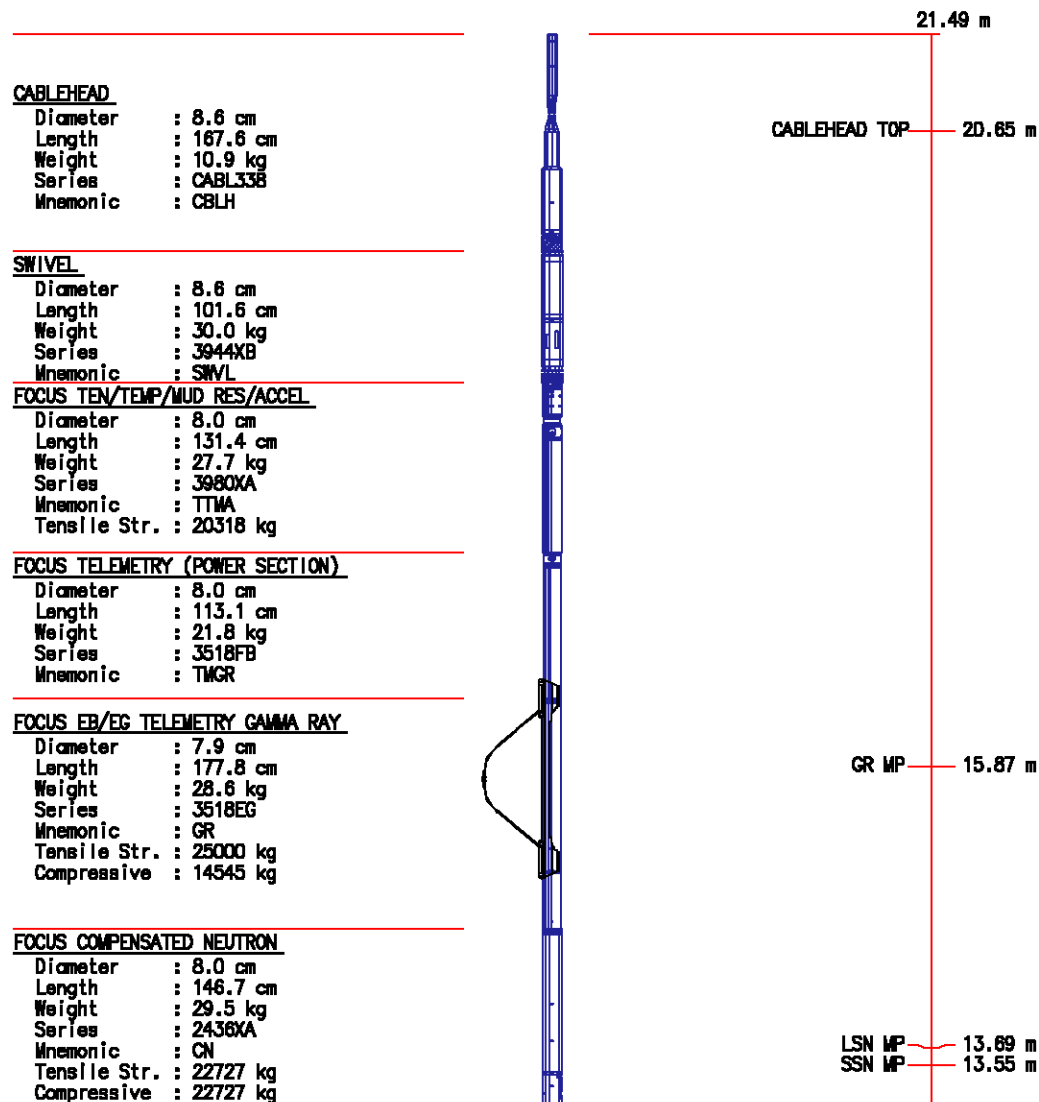
RIG: STONEHAM 11

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
2	2	SWIVEL	3944XB	73682	FREE
2	2	ISO SUB	4488NA	10143913	FREE
2	2	TTMA SUB	3980XA	10118618	FREE
2	2	COMM/POWER	3518FB	10415638	DECENTRALIZED
2	2	COMM/GR	3518EB	10118926	DECENTRALIZED
2	2	FOCUS CN	2436XA	10354054	DECENTRALIZED
2	2	FOCUS ZDEN	2223XA	10130454	PAD DEVICE
2	2	DBL KNJT	3929XA	10202451	FREE
2	2	DBL KNJT	3931XA	10195472	FREE
2	2	ALGNMNT SUB	4408NA	402986	FREE
2	2	FOCUS ZDEN	2223XA	402526	PAD DEVICE
2	2	DBL KNJT	3931XA	10480675	FREE
2	2	FOCUS HDIL	1530XA	402505	STANDOFF

INSTRUMENT CONFIGURATION

Source File: /dat1a/pass/nalcor_finn_run2/r2t2-tdg



FOCUS Z-DENSILOG

Diameter : 9.5 cm
Length : 292.1 cm
Weight : 90.9 kg
Series : 2223XA
Mnemonic : ZDL
Tensile Str. : 22727 kg
Compressive : 12955 kg

FOCUS KNUCKLE JOINT

Diameter : 8.0 cm

FOCUS KNUCKLE JOINT

Diameter : 8.0 cm

FOCUS KNUCKLE JOINT

Diameter : 8.0 cm

FOCUS KNUCKLE JOINT

Diameter : 8.0 cm

FOCUS ALIGNMENT SUB

FOCUS Z-DENSILOG

Diameter : 9.5 cm
Length : 292.1 cm
Weight : 90.9 kg
Series : 2223XA
Mnemonic : ZDL
Tensile Str. : 22727 kg
Compressive : 12955 kg

FOCUS KNUCKLE JOINT

Diameter : 8.0 cm

FOCUS KNUCKLE JOINT

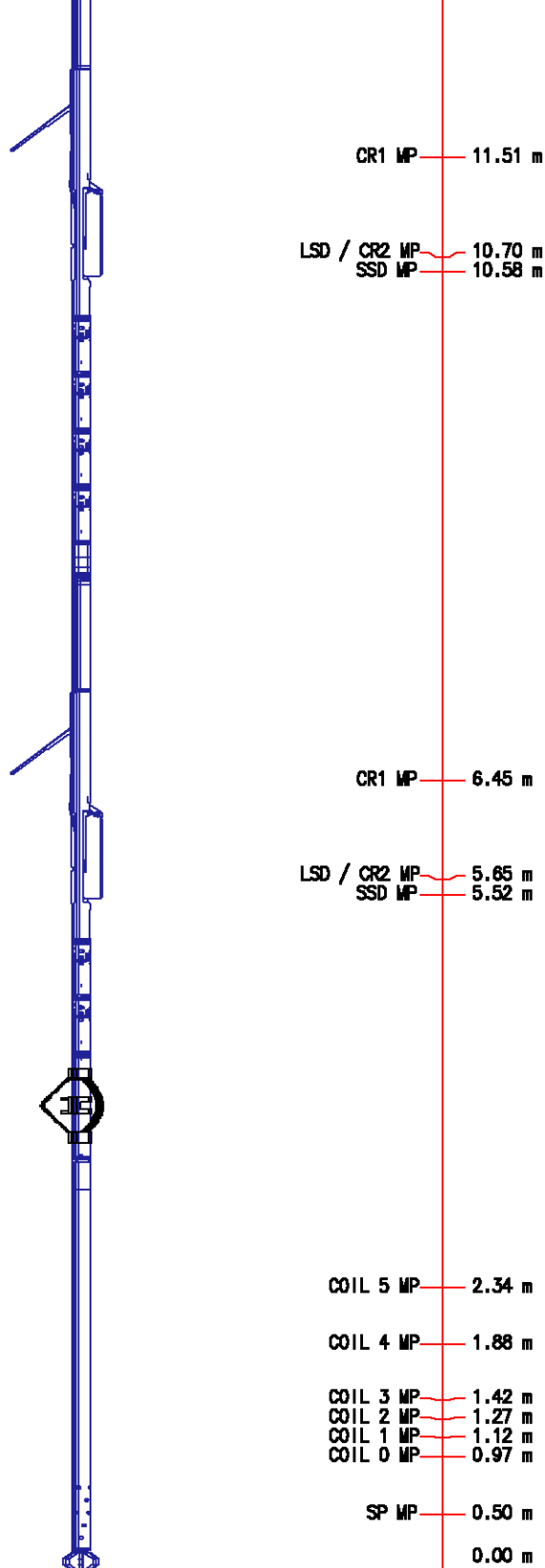
Diameter : 8.0 cm

FOCUS HIGH DEFINITION INDUCTION TOOL

Diameter : 8.0 cm
Length : 406.4 cm
Weight : 52.3 kg
Series : 1530XA
Mnemonic : HDIL
Tensile Str. : 30000 kg
Compressive : 10455 kg

FOCUS PINEAPPLE / CABBAGE

TOTAL LENGTH: 21.49 m
TOTAL WEIGHT: 517.7 kg
MAX DIAMETER: 15.6 cm



Pcrplt /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.50

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/pass/nalcor_finn_run2/m970b05.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 2237.845 m BOTTOM DEPTH: 3020.028 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CHT	FILTER ()	medium (1)		TOP	BOTTOM
GR MED RES	FILTER ()	medium (1)		''	''
CALIPER	FILTER ()	medium (1)		''	''
TENSION	FILTER ()	medium (1)		''	''
ZDL MED RES	FILTER (hrd1*)	medium		''	''
	FILTER (hrd12*)	medium		''	''
	FILTER (hrd1s*)	medium		''	''
	FILTER (hrd1s2*)	medium		''	''
	FILTER (hrd2*)	medium		''	''
	FILTER (hrd22*)	medium		''	''
	FILTER (hrd2s*)	medium		''	''
	FILTER (hrd2s2*)	medium		''	''
	FILTER (soft*)	medium		''	''
	FILTER (soft2*)	medium		''	''

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
BIT SIZE	BIT SIZE	216.000	mm	TOP	BOTTOM

ACCELERATION PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
ACCEL CORR SWITCH	ACCEL DEPTH CORR	CORRECTION ON		TOP	BOTTOM

ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
DENSITY POROSITY	Air Filled Borehole	NO		TOP	BOTTOM

CURVE DESCRIPTION REPORT

CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:BIT	Nov 27 20:22:40 2010	BIT SIZE
F1:CALX	Nov 27 20:22:40 2010	CALIPER FROM X-AXIS OF XY CALIPER(S)
F1:CALY	Nov 27 20:22:40 2010	CALIPER FROM Y-AXIS OF XY CALIPER(S)
F1:CHT	Nov 27 20:22:40 2010	CABLE HEAD TENSION
F1:GR	Nov 27 20:22:40 2010	GAMMA RAY
F1:MMRK	Nov 27 20:22:40 2010	MINUTE MARK
F1:PE	Nov 27 20:22:40 2010	PHOTO ELECTRIC CROSS-SECTION
F1:PE2	Nov 27 20:22:40 2010	PHOTOELECTRIC CROSS-SECTION (2ND TOOL)
F1:TEN	Nov 27 20:22:40 2010	DIFFERENTIAL TENSION
F1:ZCOR	Nov 27 20:22:40 2010	DENSITY CORRECTION
F1:ZCOR2	Nov 27 20:22:40 2010	DENSITY CORRECTION (2ND TOOL)
F1:ZDEN	Nov 27 20:22:40 2010	FORMATION BULK DENSITY
F1:ZDEN2	Nov 27 20:22:40 2010	FORMATION BULK DENSITY (2ND TOOL)

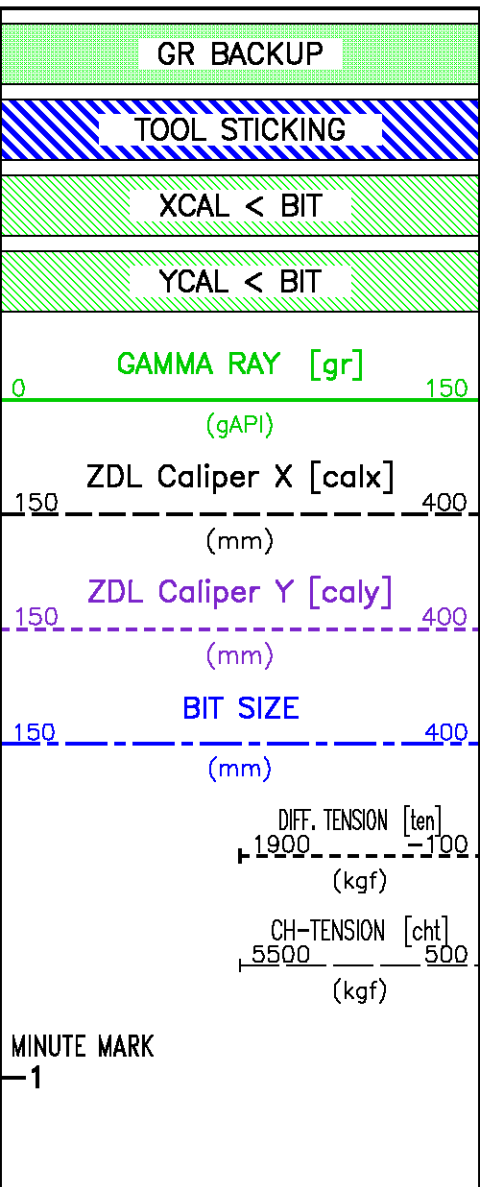
CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CHT	0.00	PE2	5.49	ZCOR2	5.49
CALX	10.55	GR	15.70	TEN	0.00	ZDEN	10.55
CALY	5.49	PE	10.55	ZCOR	10.55	ZDEN2	5.49

Presentation : cpu1:/dat1a/pass/nalcor_finn_run2/zdl2_upper.pdf [1:600 Scale]
Plot Interval : 2250 - 3030 Meters

Data File 1 : F1 : cpu1:/dat1a/pass/nalcor_finn_run2/zdl2_upper.pdf

Data File : F1 : c:\p1\data\pass\nalcor_mmm\zden\z1z2\main.xn
Created On : Nov 27 20:22:40 2010
Company : NALCOR ENERGY
Well : NALCOR ET AL FINNEGAN 1
Field : FINNEGAN
File Interval : 2221.92 - 3023.84 Meters
Oct : m970b

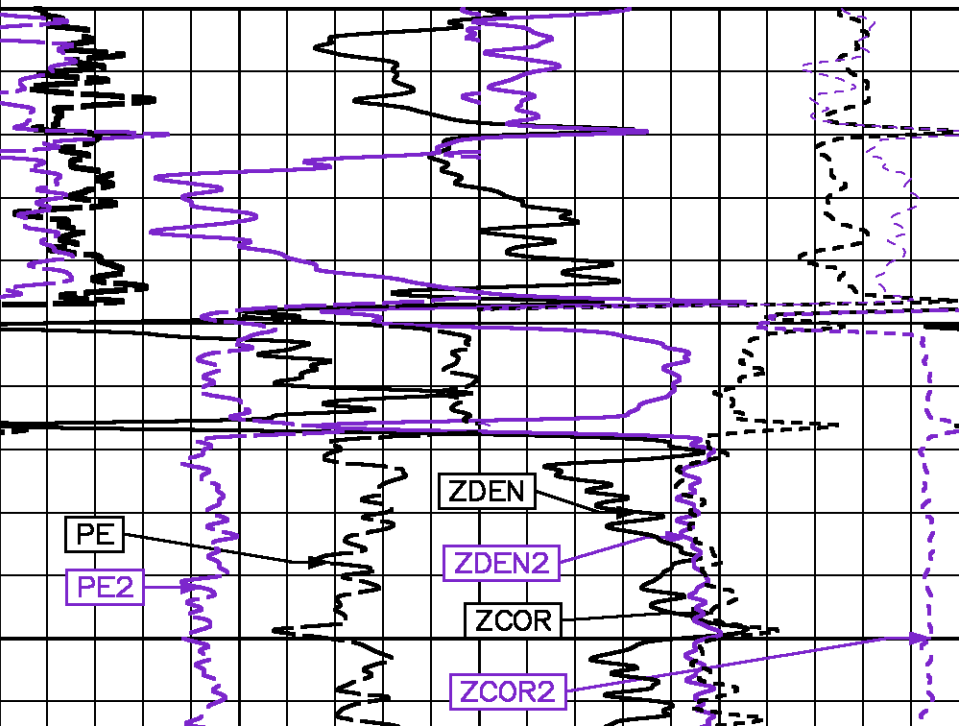
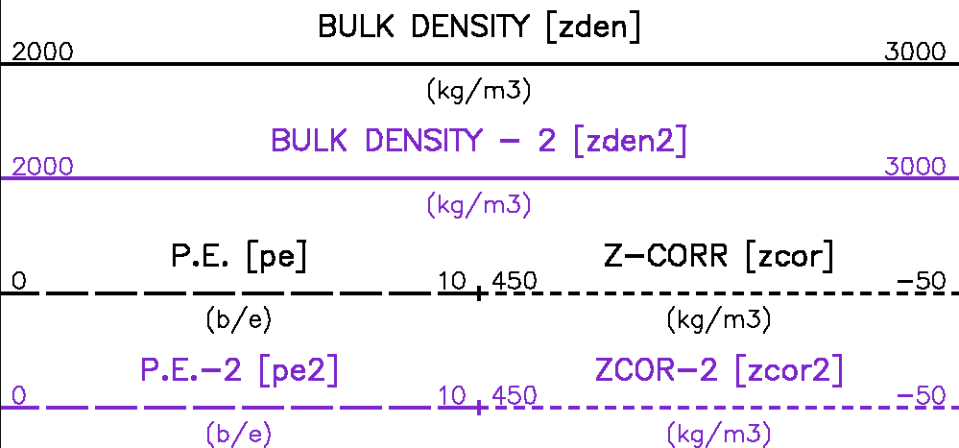
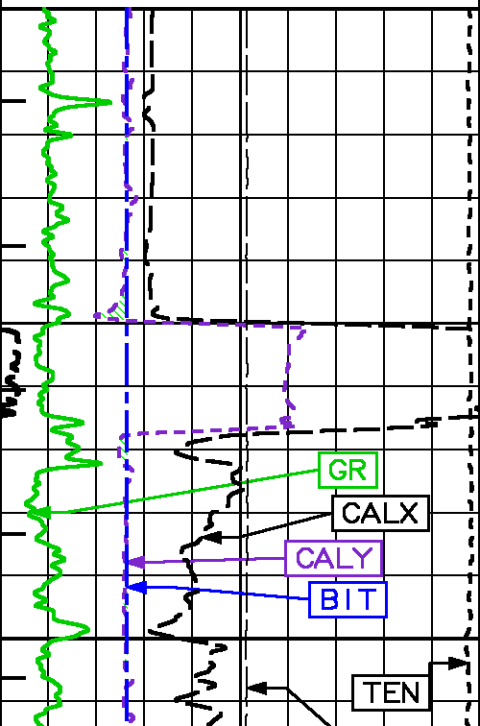


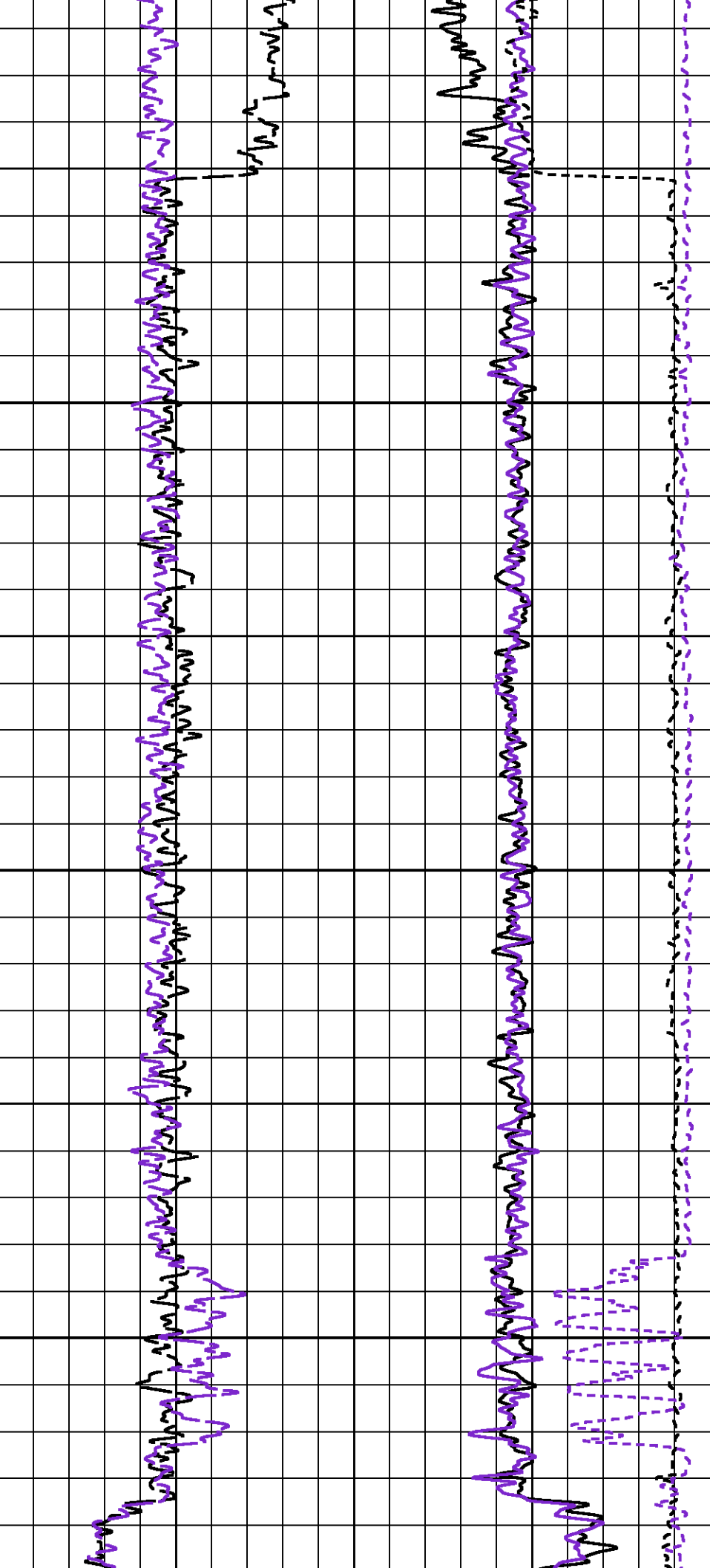
METERS

2250

CSG

2300



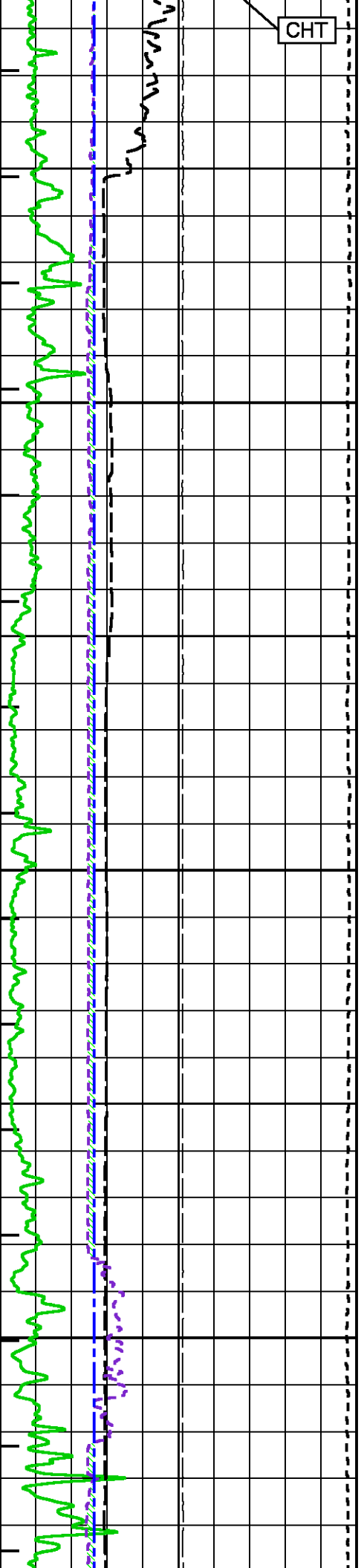


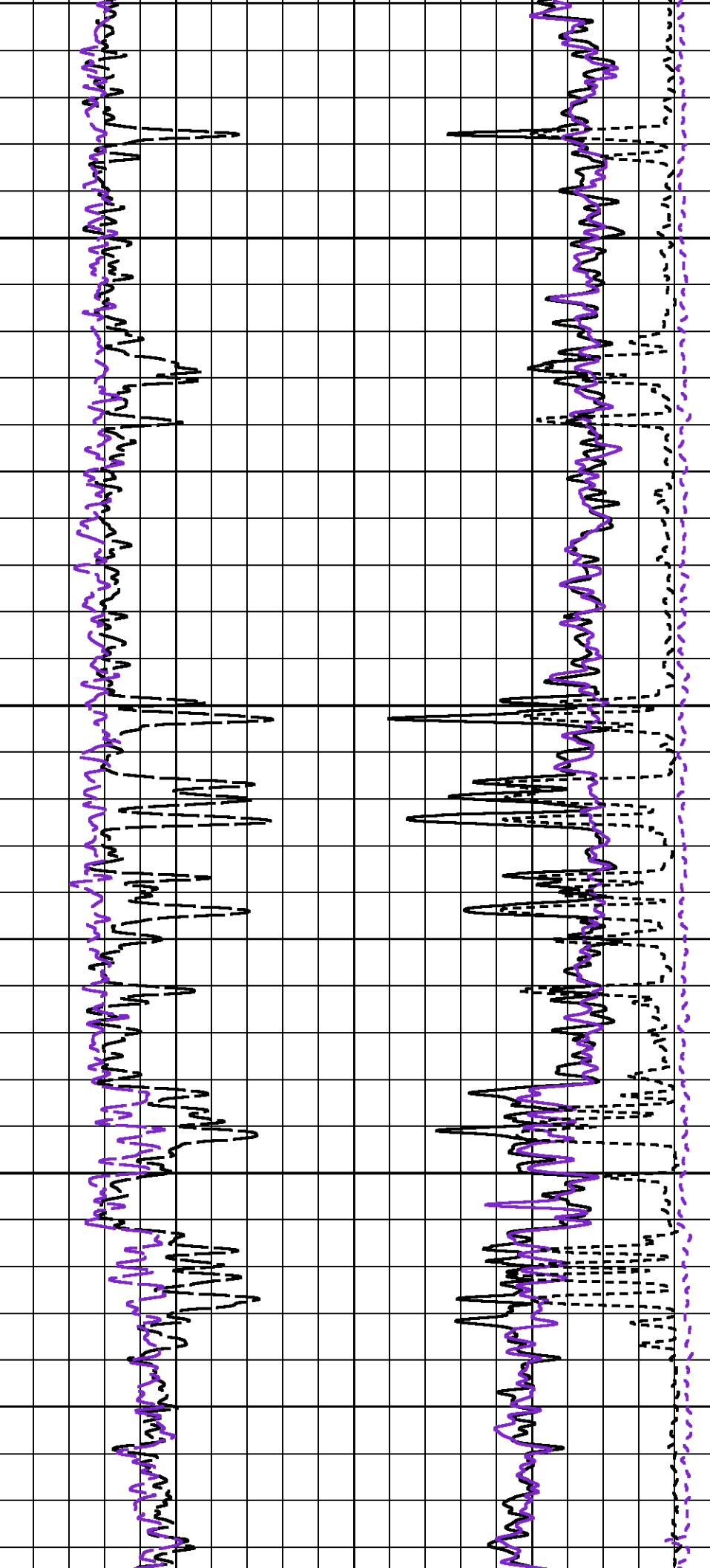
2350

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CHT

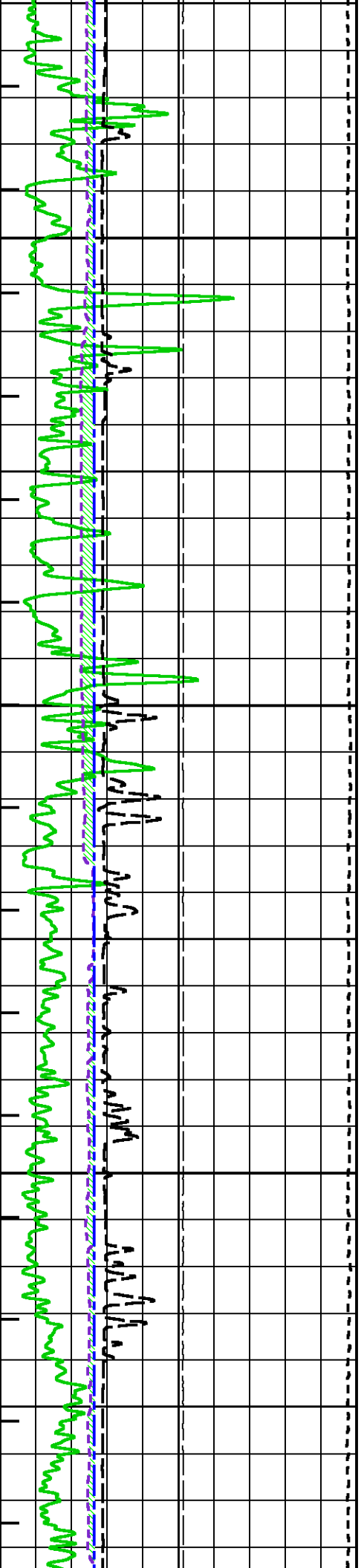


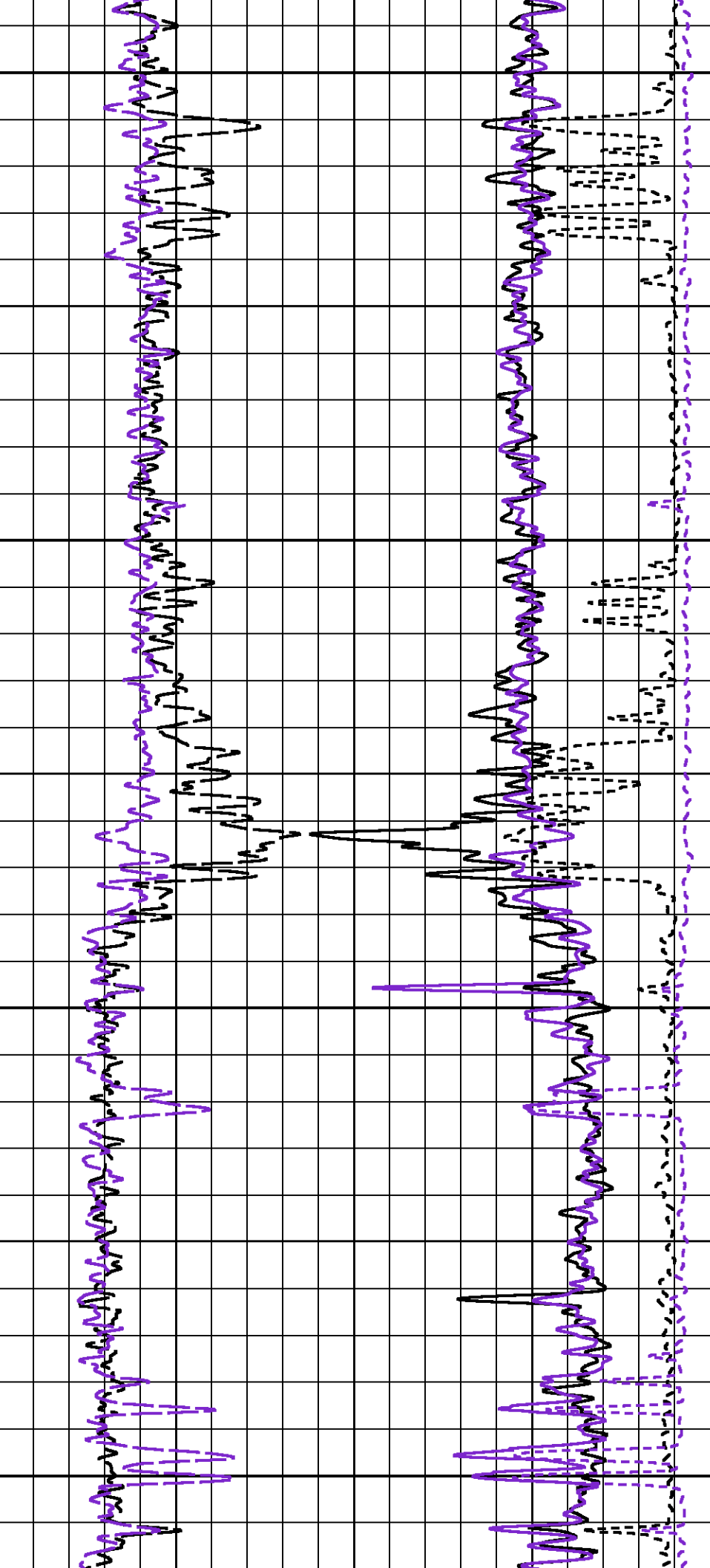


2500

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2600



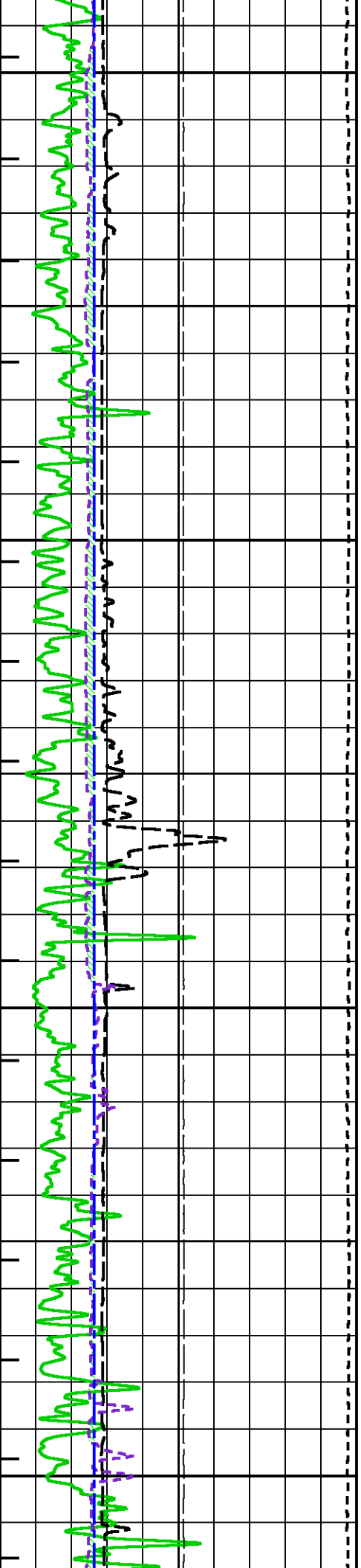


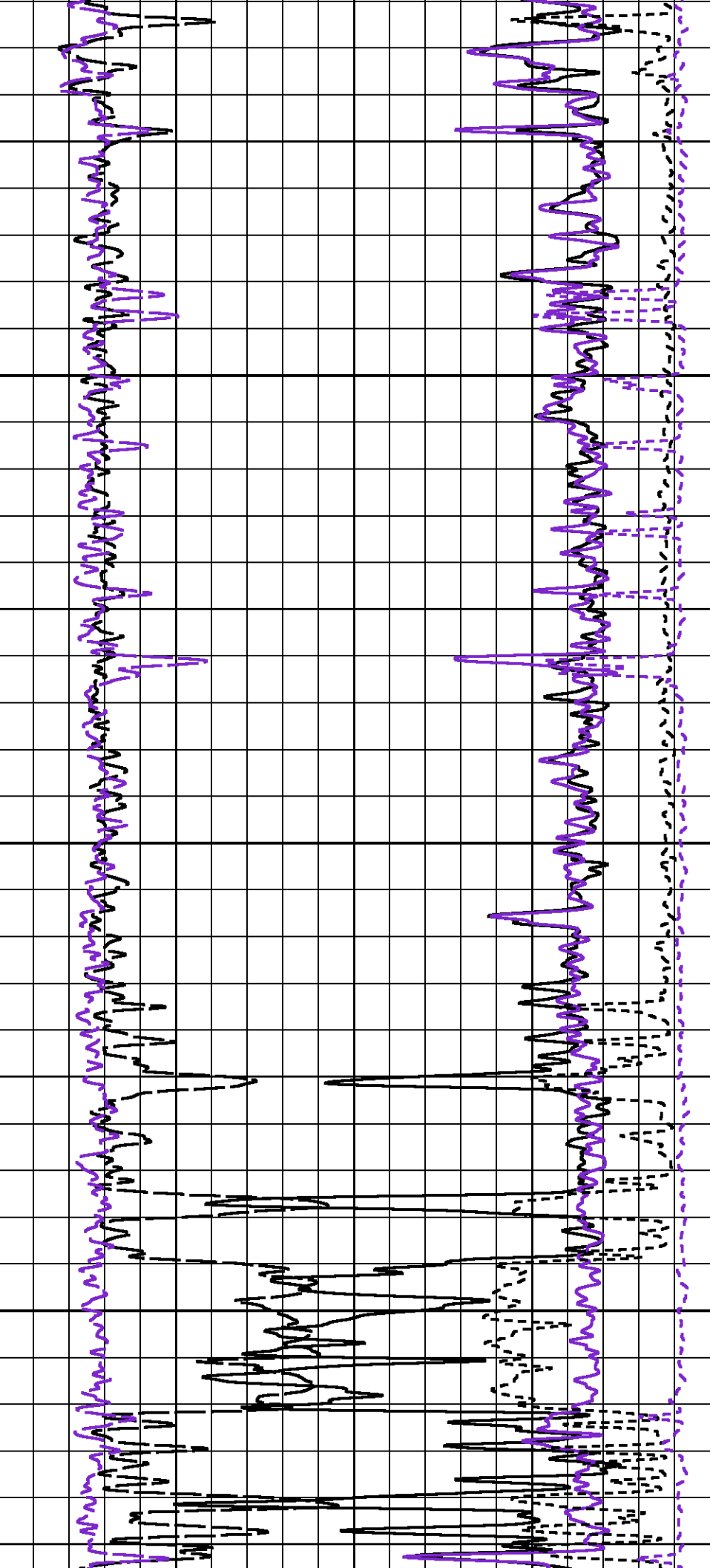
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2800

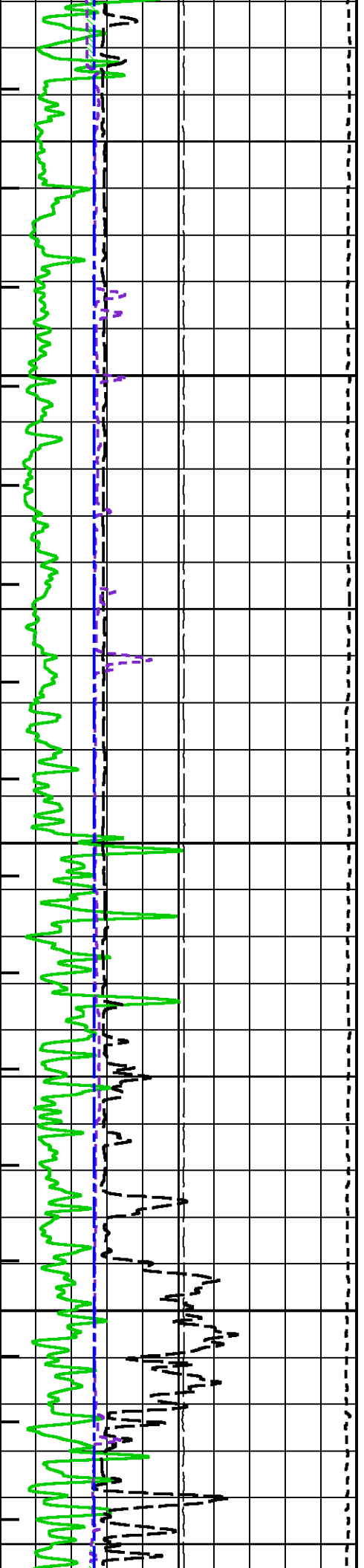


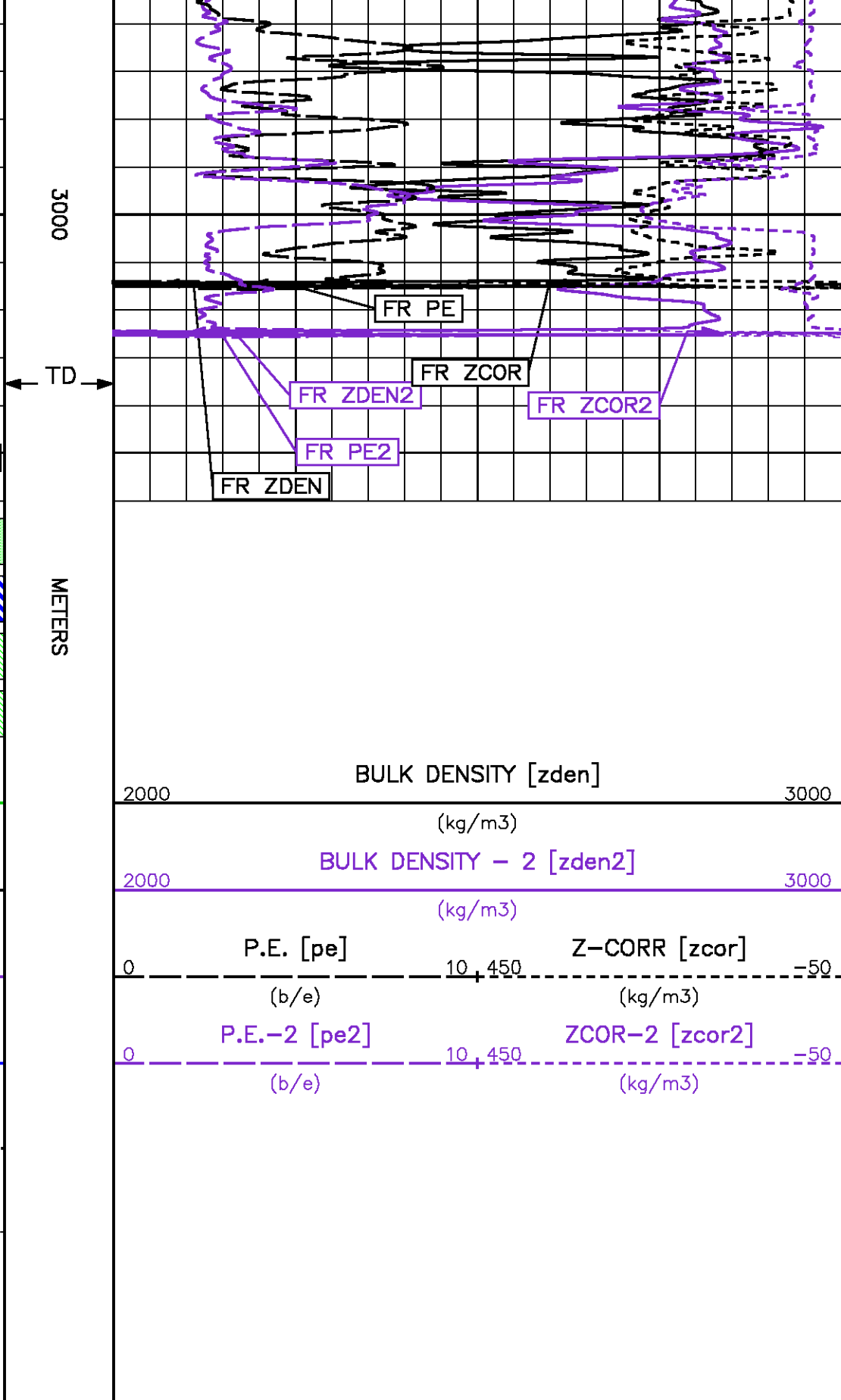
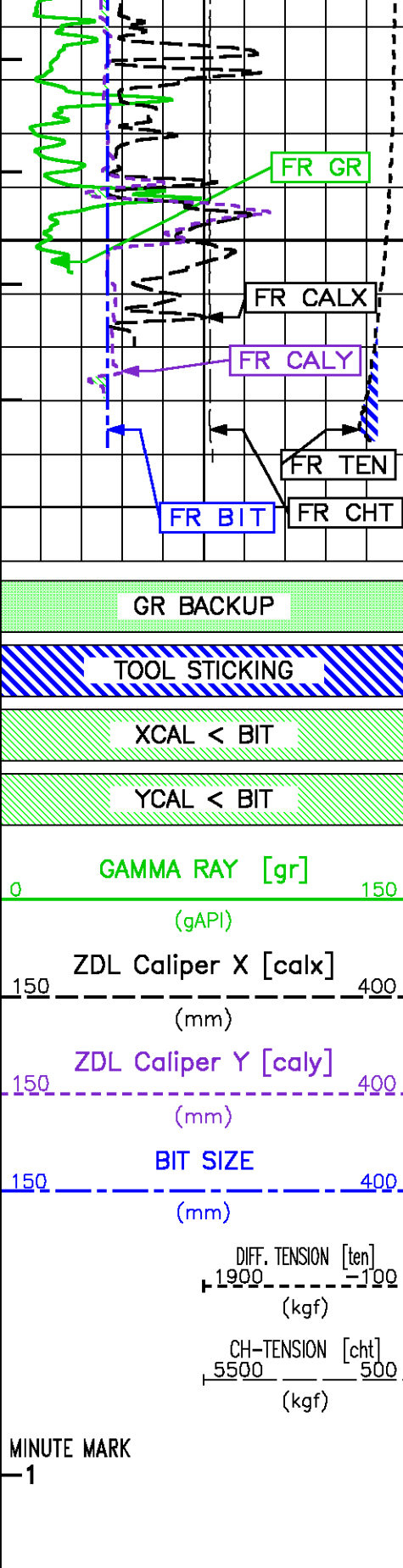


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PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pass/nalcor_flnn_run2/m970b05.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 2237.845 m BOTTOM DEPTH: 3020.028 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CHT	FILTER ()	medium (1)		TOP	BOTTOM
GR MED RES	FILTER ()	medium (1)		''	''
CALIPER	FILTER ()	medium (1)		''	''
TENSION	FILTER ()	medium (1)		''	''
CN MED RES	FILTER ()	medium (1)		''	''
ZDL MED RES	FILTER (hrd1*)	medium		''	''
	FILTER (hrd12*)	medium		''	''
	FILTER (hrd1s*)	medium		''	''
	FILTER (hrd1s2*)	medium		''	''
	FILTER (hrd2*)	medium		''	''
	FILTER (hrd22*)	medium		''	''
	FILTER (hrd2s*)	medium		''	''
	FILTER (hrd2s2*)	medium		''	''
	FILTER (soft*)	medium		''	''
	FILTER (soft2*)	medium		''	''

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	177.800	mm	TOP	BOTTOM
	CASING THICKNESS	0.000	mm	''	''
X-Y COMBINED CALIPER PROCESSING-FOCUS	FOCUS Caliper - FOCUS	Average		''	''
BIT SIZE	BIT SIZE	216.000	mm	''	''
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cnbh*)	USE CALIPER		''	''
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbh*)	216.000	mm	''	''

ACCELERATION PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
ACCEL CORR SWITCH	ACCEL DEPTH CORR	CORRECTION ON		TOP	BOTTOM

CN PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CN BOREHOLE CORRECTION	SALINITY	0	ppm	TOP	BOTTOM
	BOREHOLE CORRECTION	ON		''	''
CN CASING & CEMENT CORRECTION	CORRECTION	OFF		''	''
	BIT SIZE BEHIND CSNG	200.025	mm	''	''

ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
DENSITY POROSITY	Air Filled Borehole	NO		TOP	BOTTOM
	RHOfluid	1.000	g/cm3	''	''
	RHOmatrix (lime)	2.710	g/cm3	''	''

CURVE DESCRIPTION REPORT

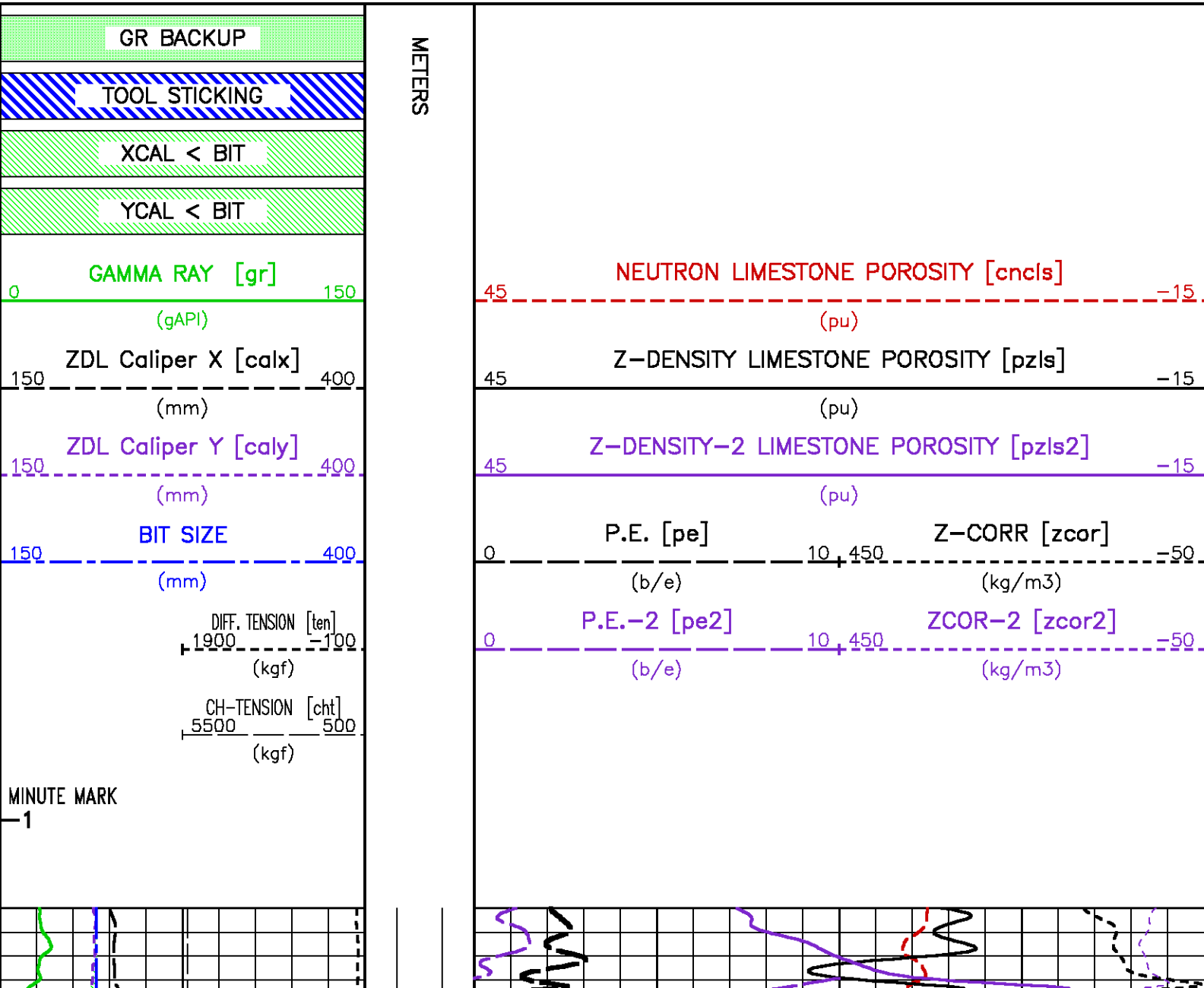
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:BIT	Nov 27 20:22:40 2010	BIT SIZE
F1:CALX	Nov 27 20:22:40 2010	CALIPER FROM X-AXIS OF XY CALIPER(S)
F1:CALY	Nov 27 20:22:40 2010	CALIPER FROM Y-AXIS OF XY CALIPER(S)
F1:CHT	Nov 27 20:22:40 2010	CABLE HEAD TENSION
F1:CNCLS	Nov 27 20:22:40 2010	BOREHOLE SIZE CORRECTED LIMESTONE COMPENSATED NEU POROSITY
F1:GR	Nov 27 20:22:40 2010	GAMMA RAY

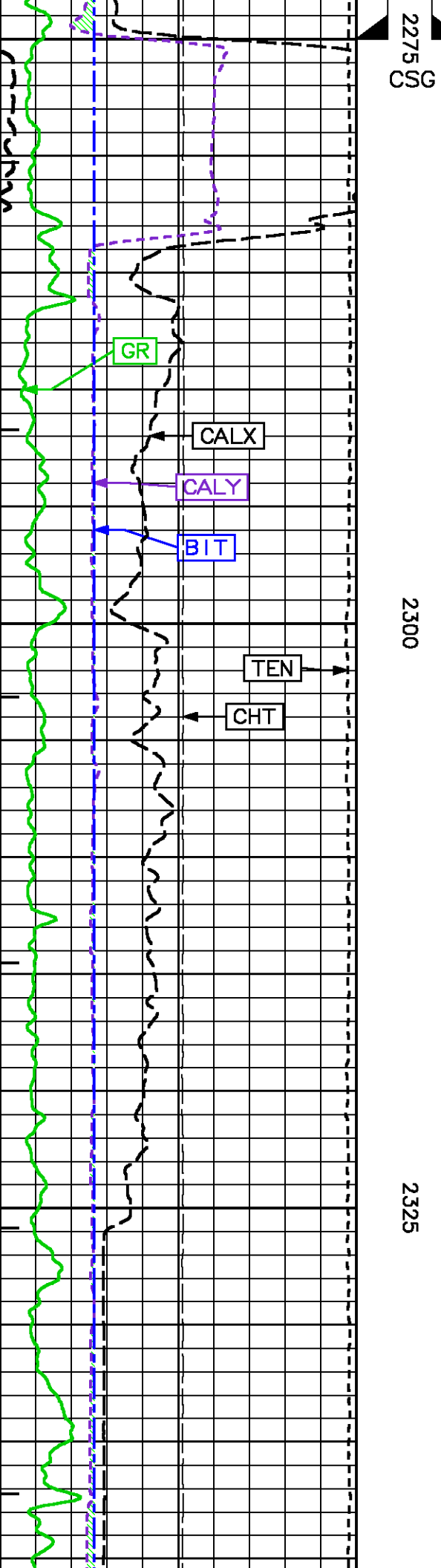
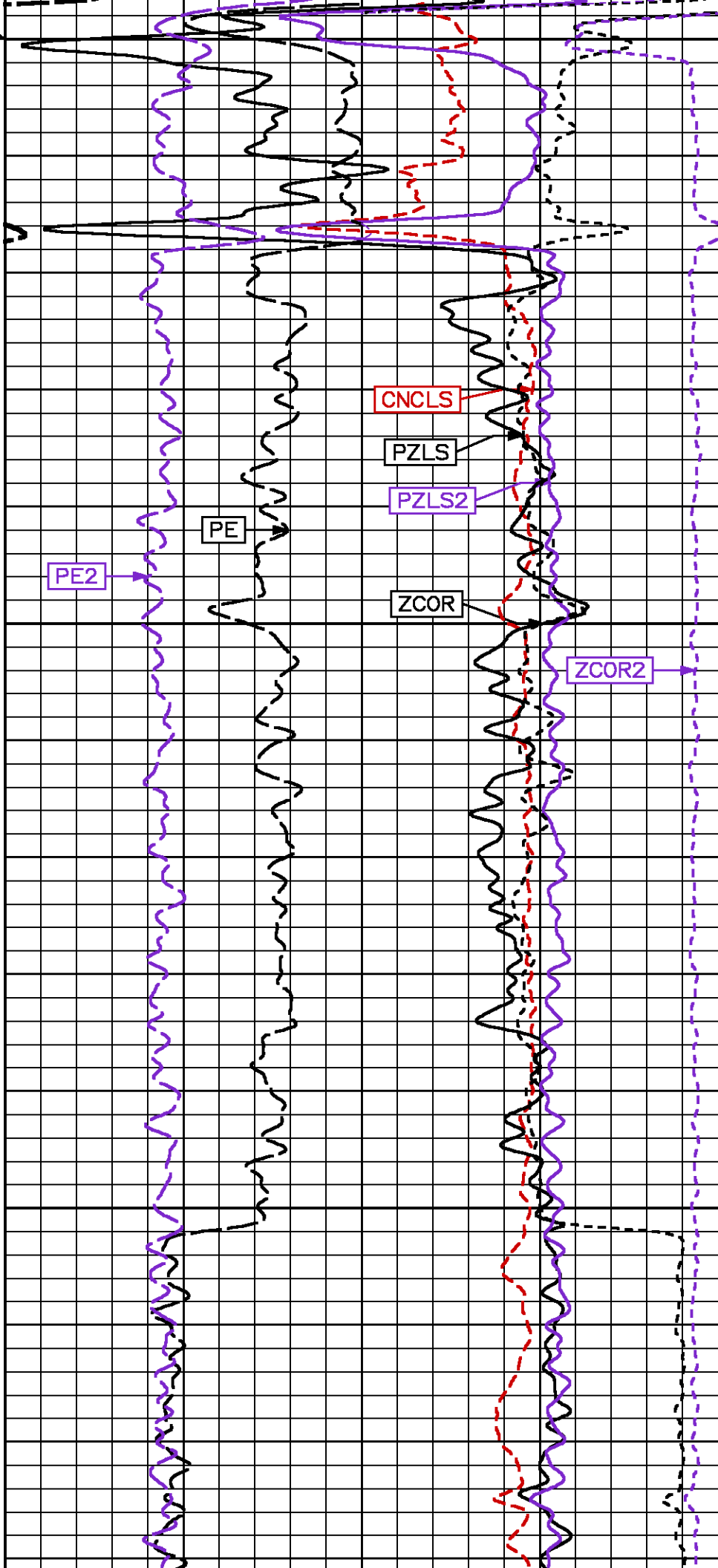
F1:MMRK	Nov 27 20:22:40	2010	GAMMA RAY
F1:PE	Nov 27 20:22:40	2010	MINUTE MARK
F1:PE2	Nov 27 20:22:40	2010	PHOTO ELECTRIC CROSS-SECTION
F1:PZLS	Nov 27 20:22:40	2010	PHOTOELECTRIC CROSS-SECTION (2ND TOOL)
F1:PZLS2	Nov 27 20:22:40	2010	POROSITY FOR LIMESTONE MATRIX
F1:TEN	Nov 27 20:22:40	2010	POROSITY FOR LIMESTONE MATRIX (2ND TOOL)
F1:ZCOR	Nov 27 20:22:40	2010	DIFFERENTIAL TENSION
F1:ZCOR2	Nov 27 20:22:40	2010	DENSITY CORRECTION
			DENSITY CORRECTION (2ND TOOL)

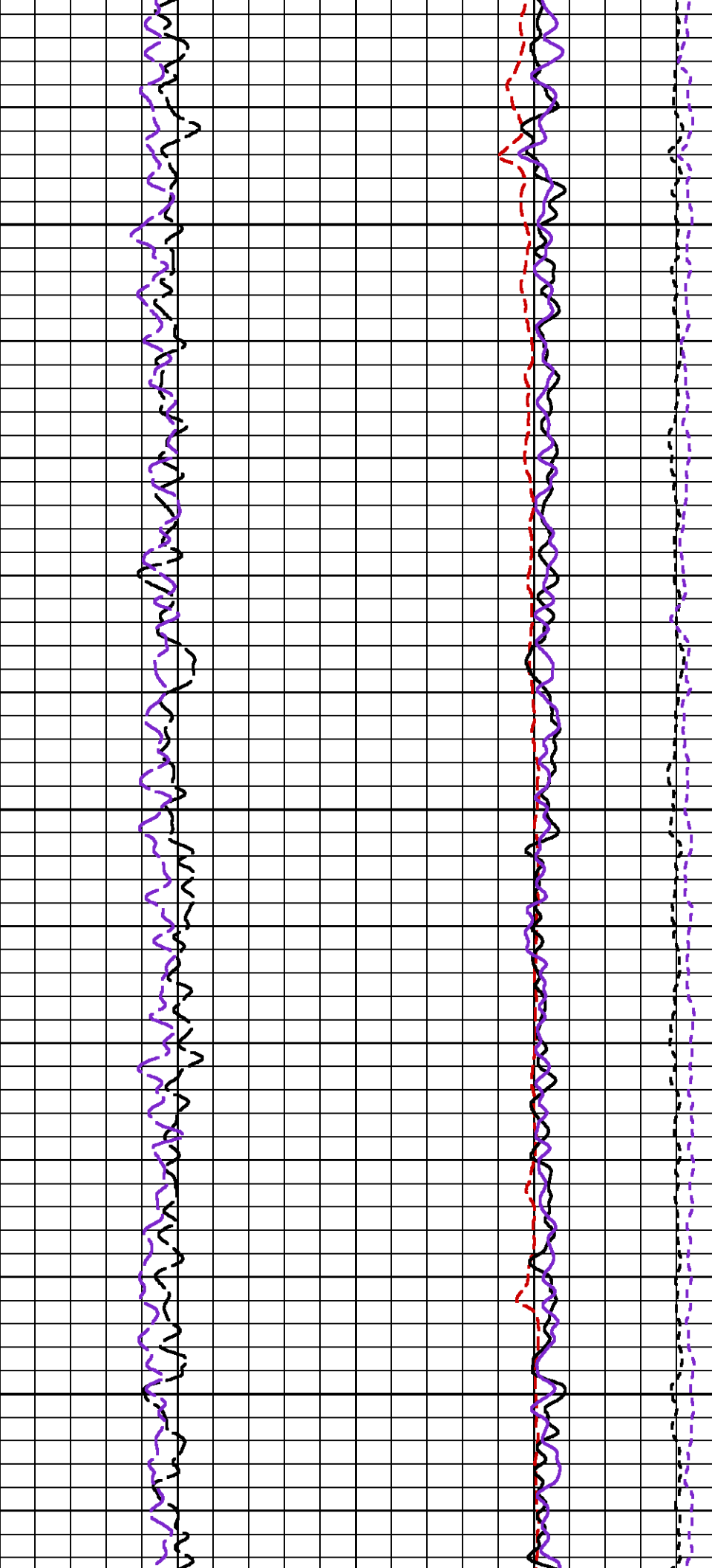
CURVE MEASURE POINT OFFSET							
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CNCLS	13.41	PZLS	10.55	ZCOR2	5.49
CALX	10.55	GR	15.70	PZLS2	5.49		
CALY	5.49	PE	10.55	TEN	0.00		
CHT	0.00	PE2	5.49	ZCOR	10.55		

Presentation : cpu1:/dat1a/pass/nalcor_finn_run2/zdl2_main Js.pdf [1:240 Scale]
Plot Interval : 2270 - 3030 Meters

Data File 1 : F1 : cpu1:/dat1a/pass/nalcor_finn_run2/r2t2_main.xtf
Created On : Nov 27 20:22:40 2010
Company : NALCOR ENERGY
Well : NALCOR ET AL FINNEGAN 1
Field : FINNEGAN
File Interval : 2221.92 - 3023.84 Meters
Oct : m970b



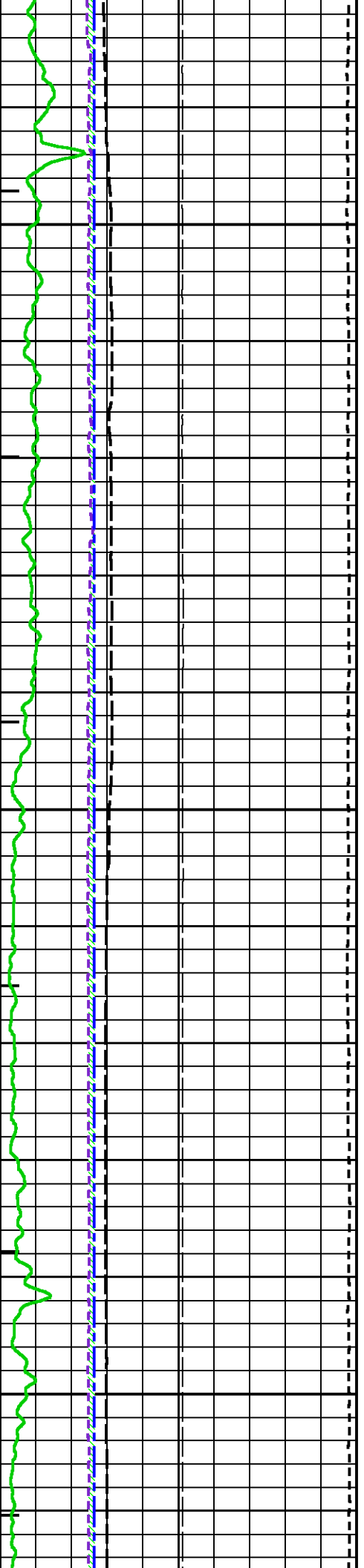


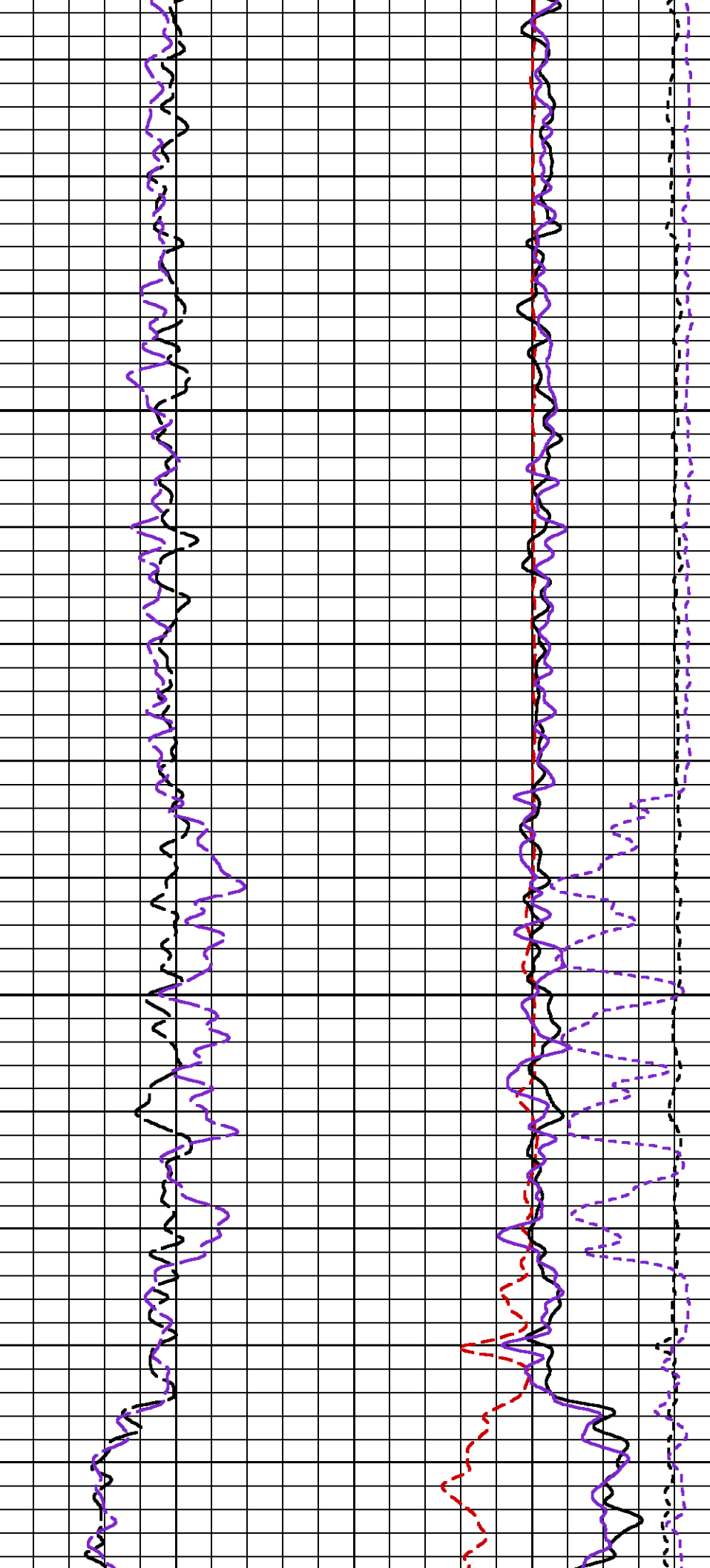


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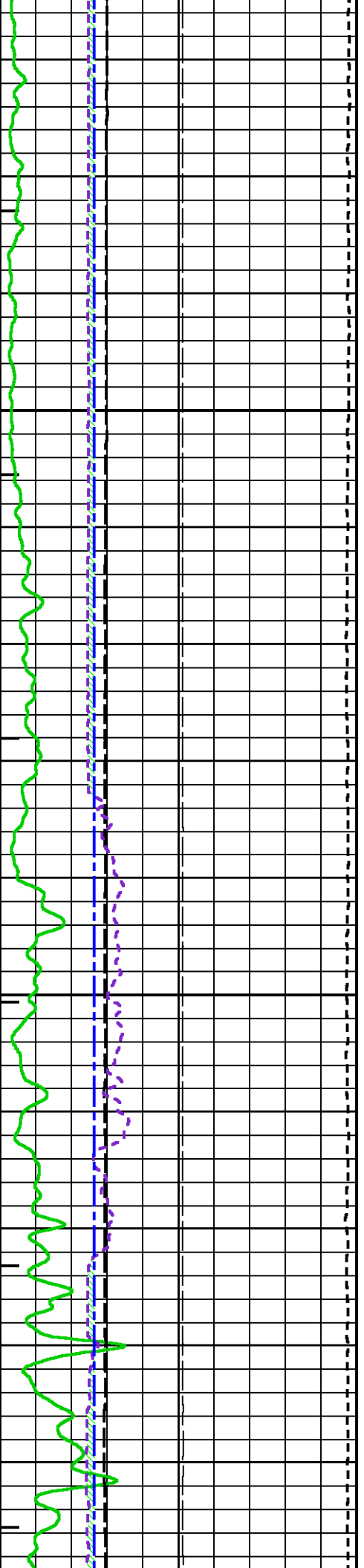


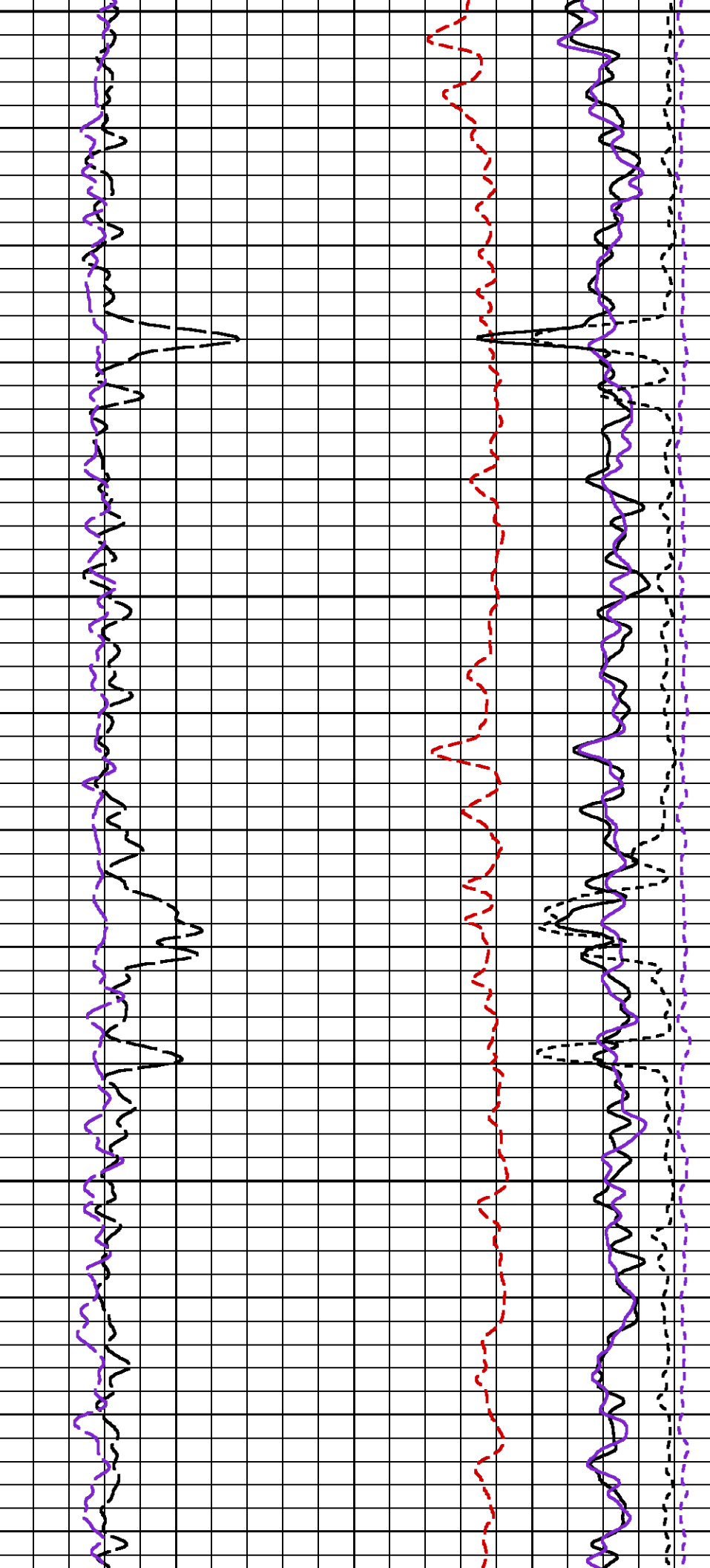


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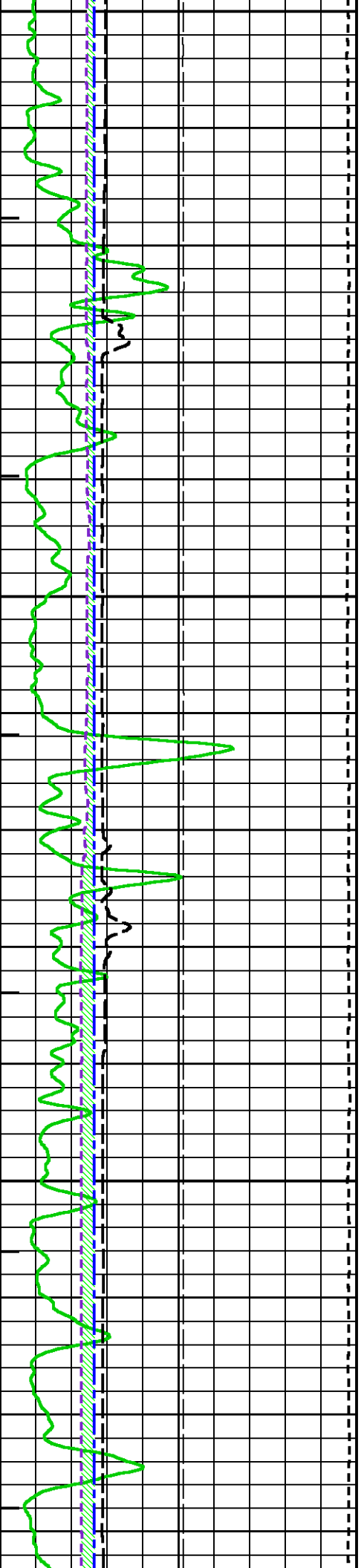


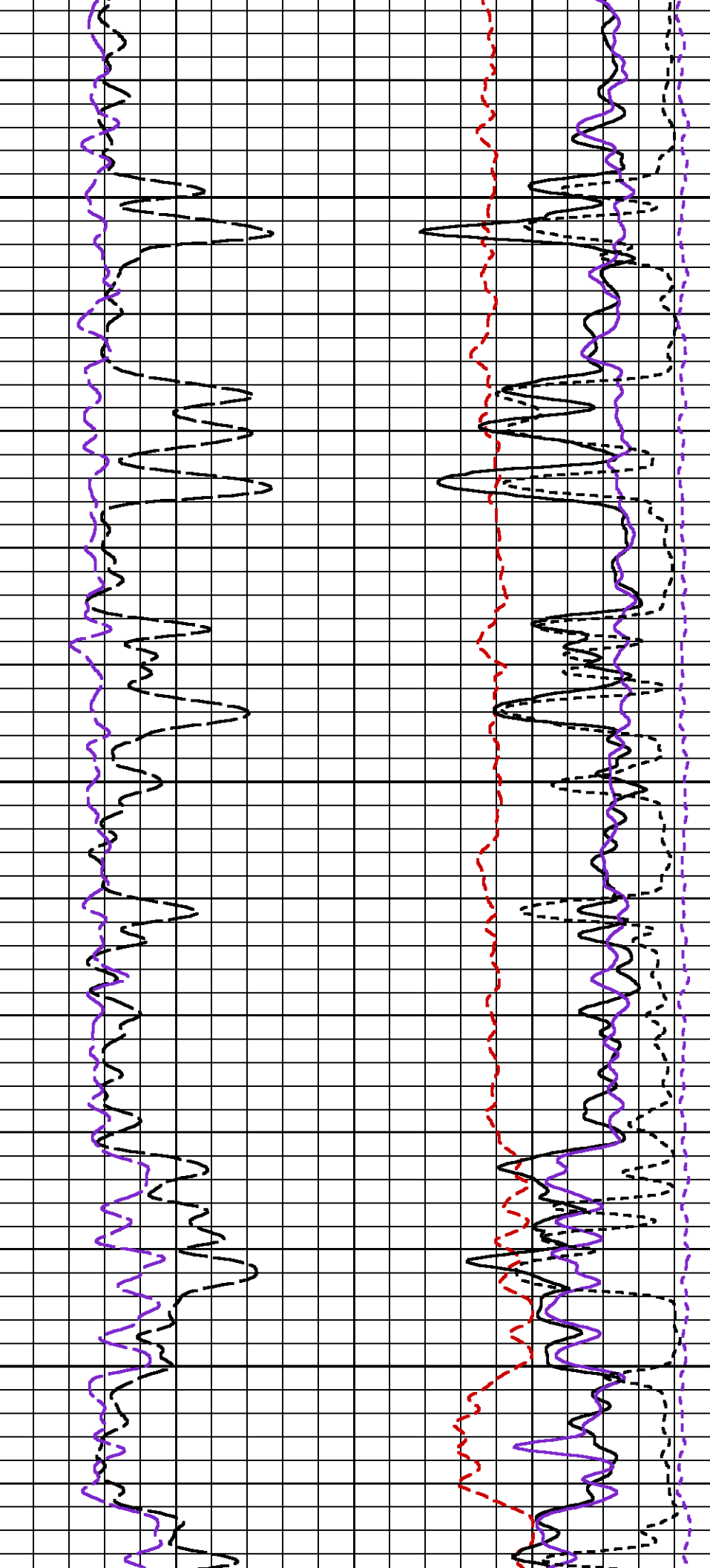


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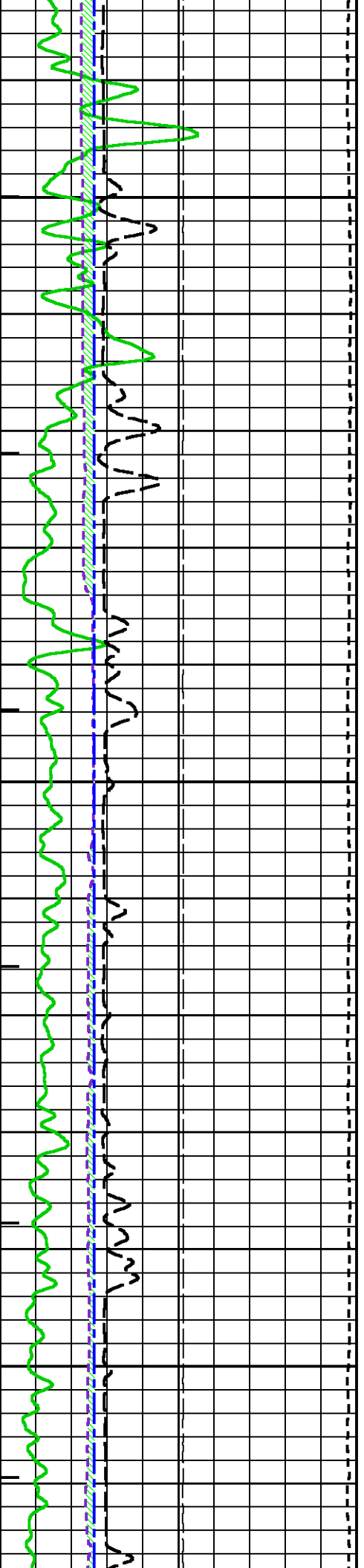


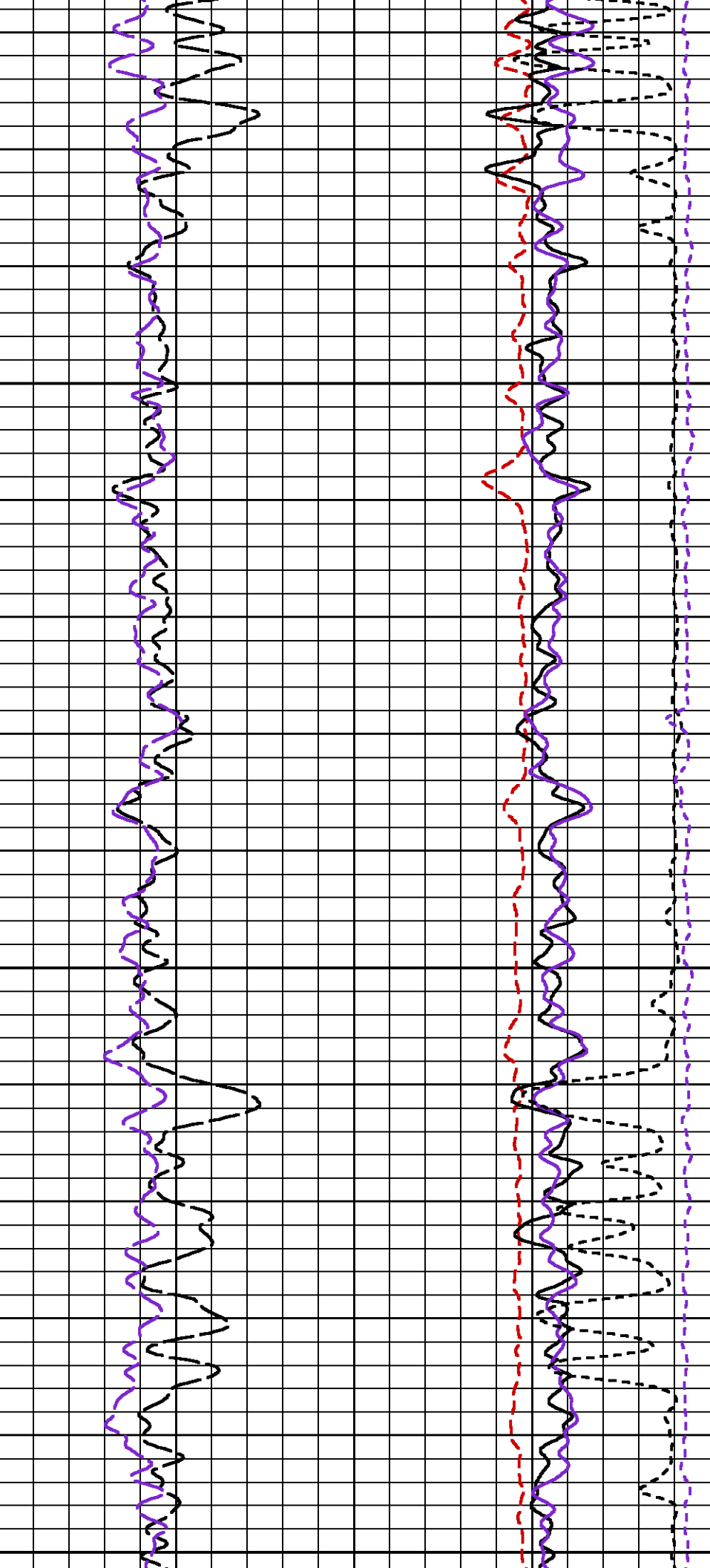


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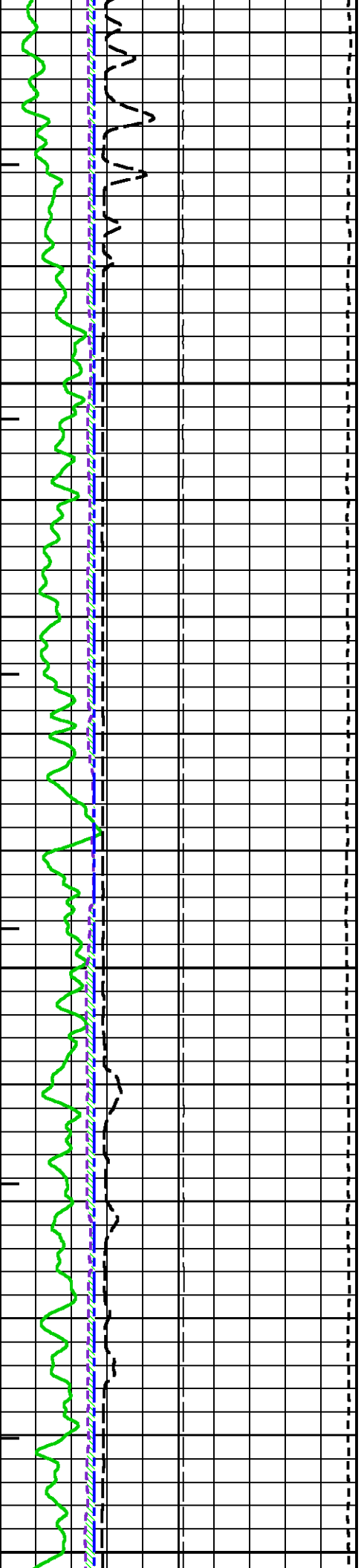


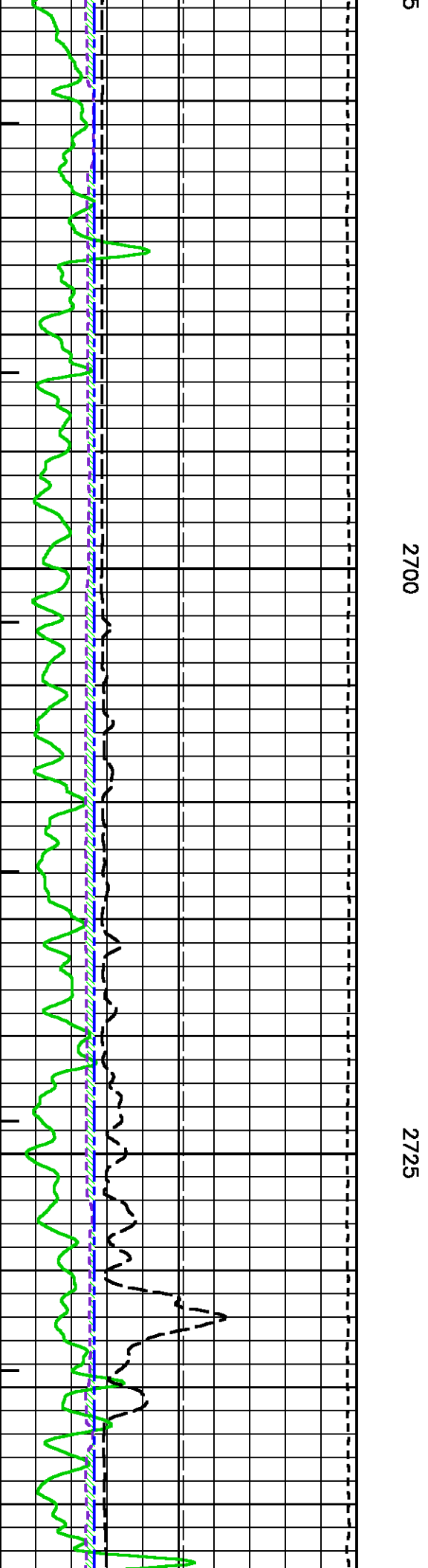
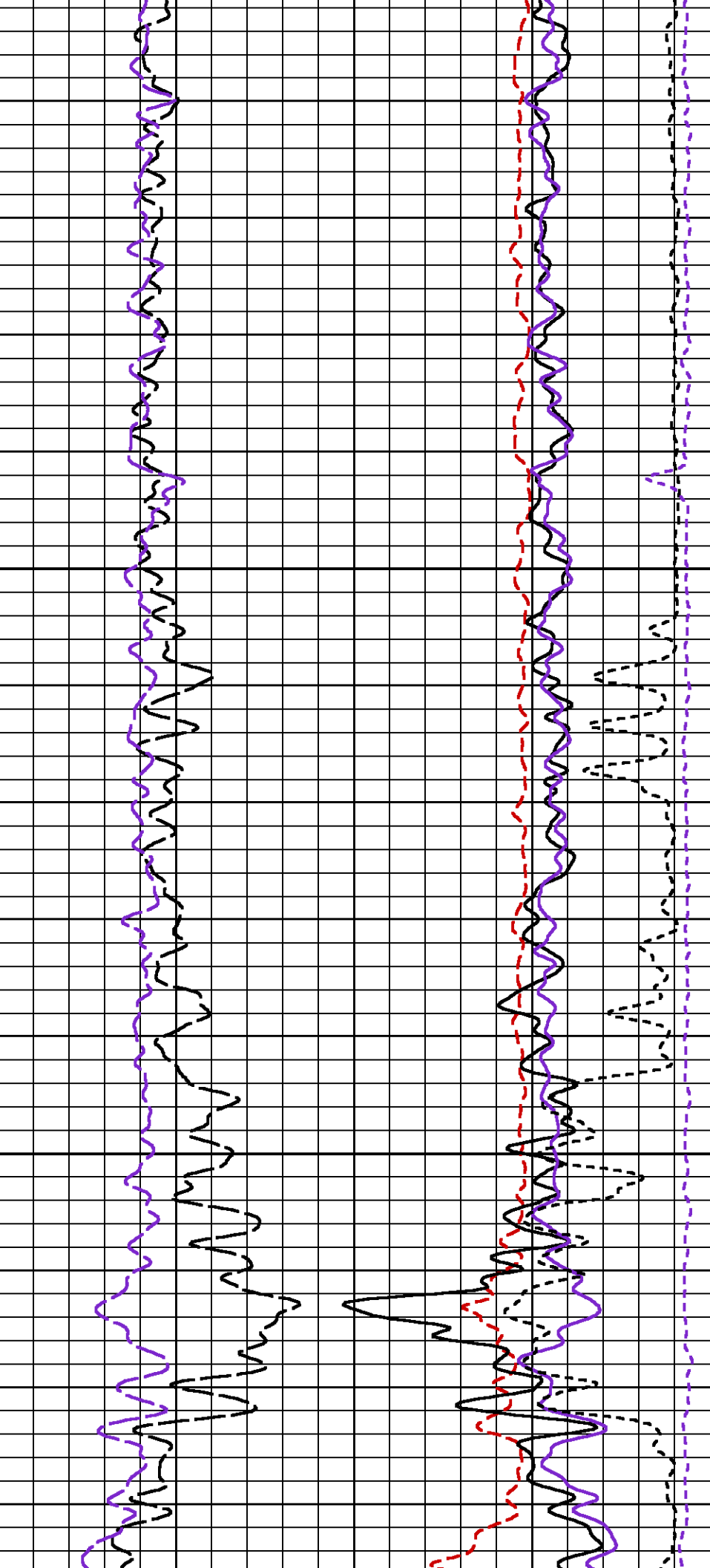


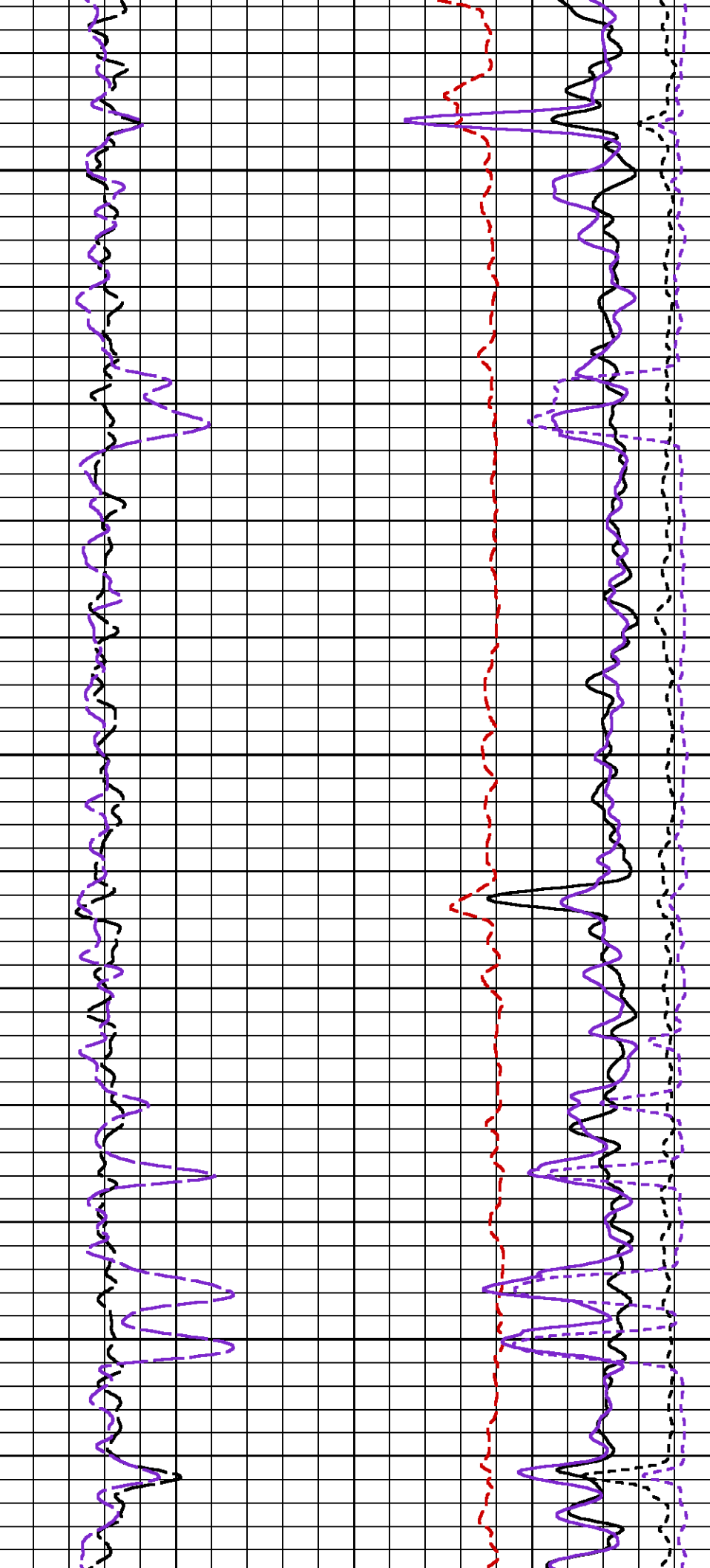
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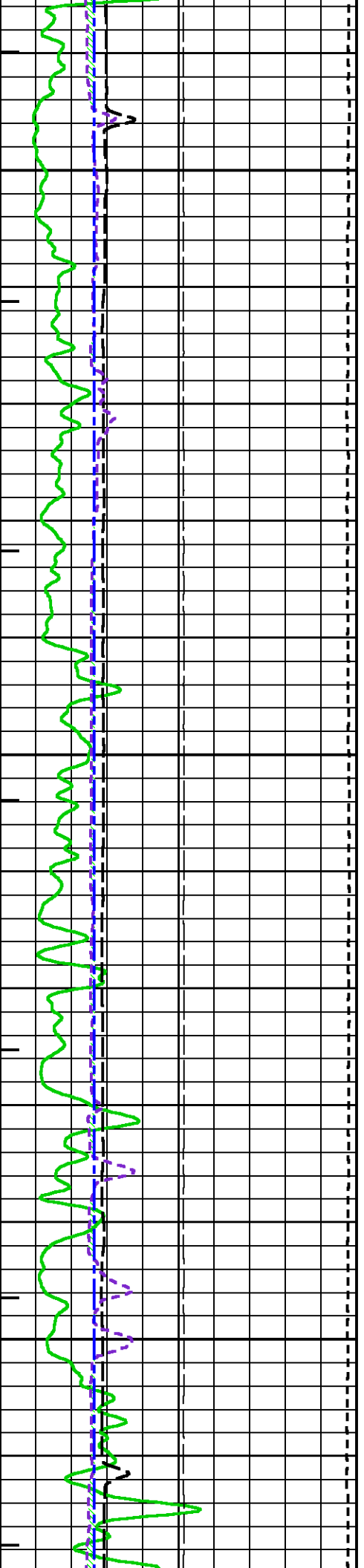


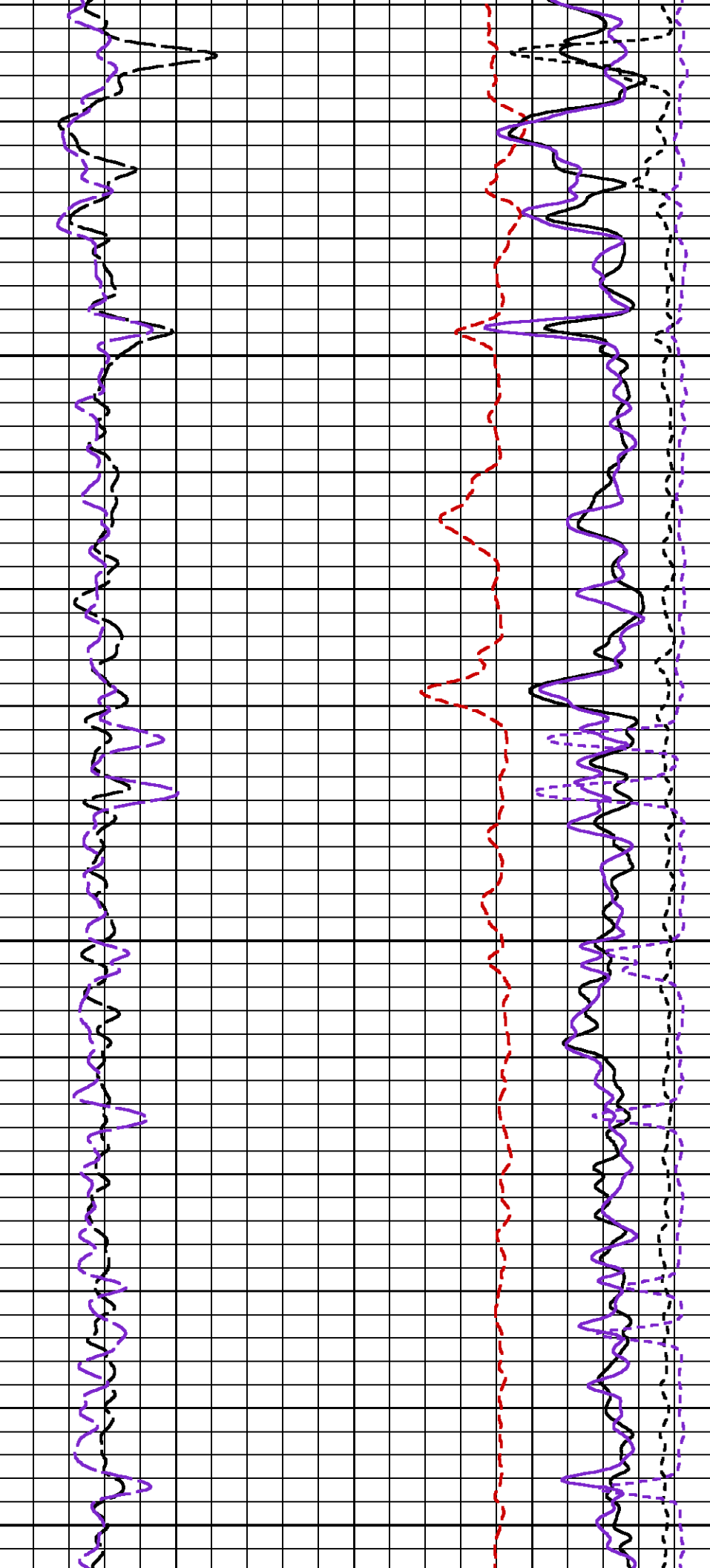


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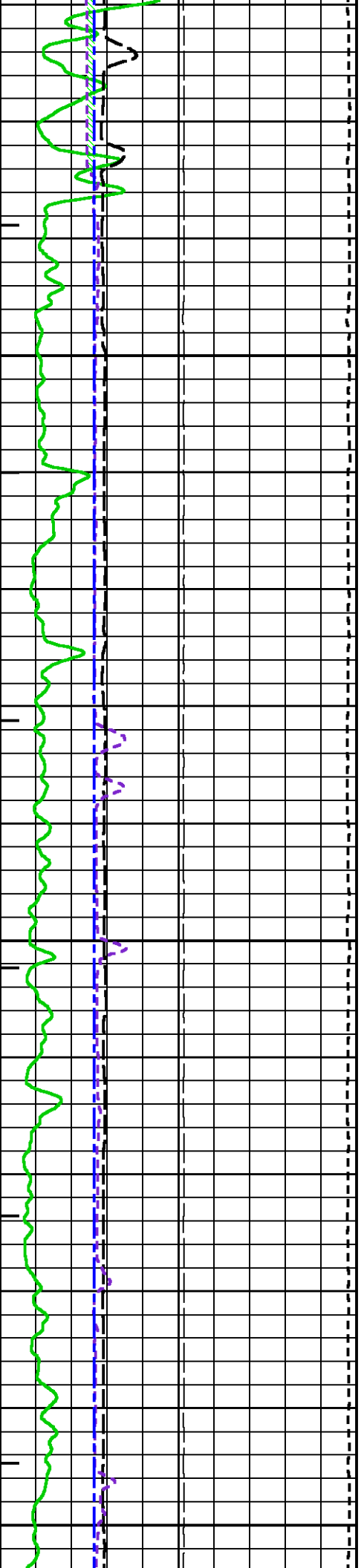


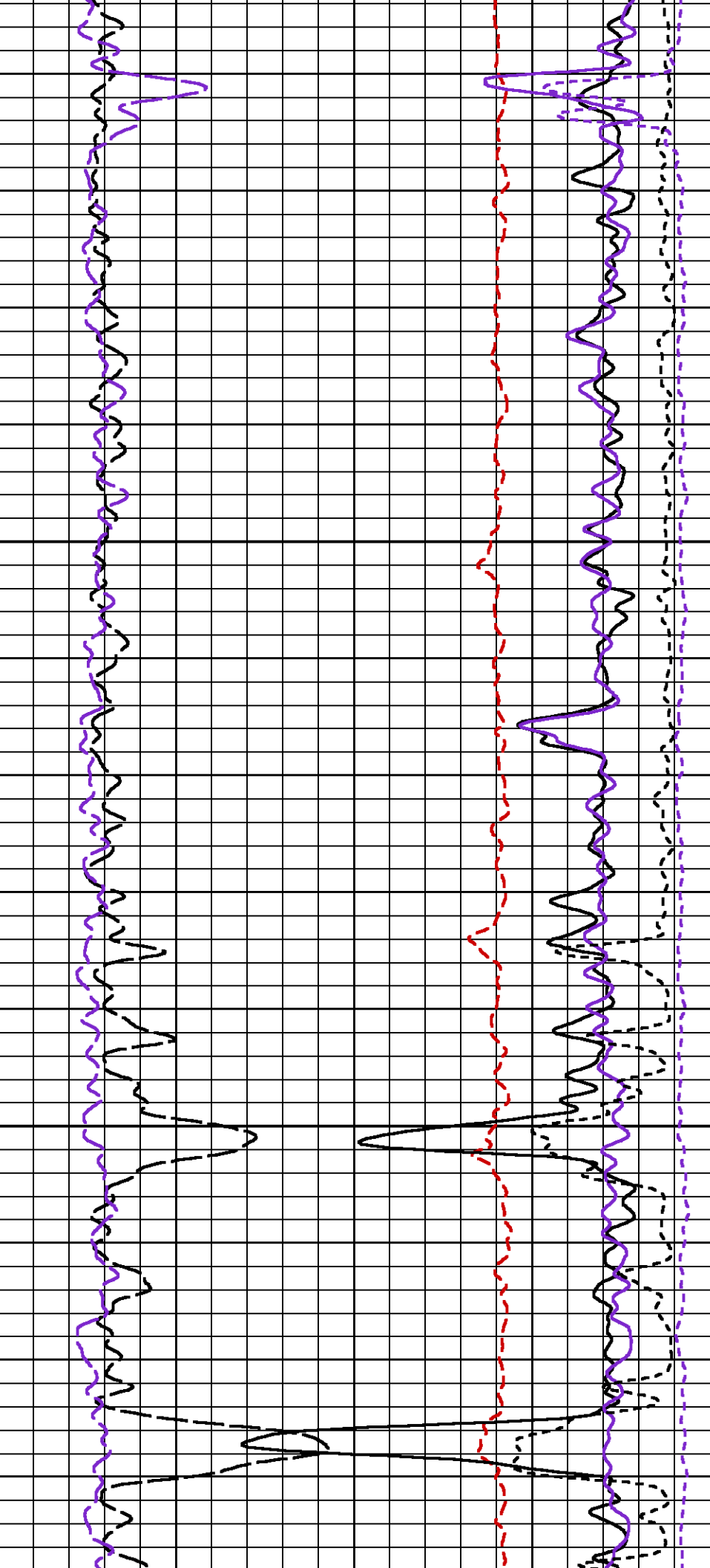


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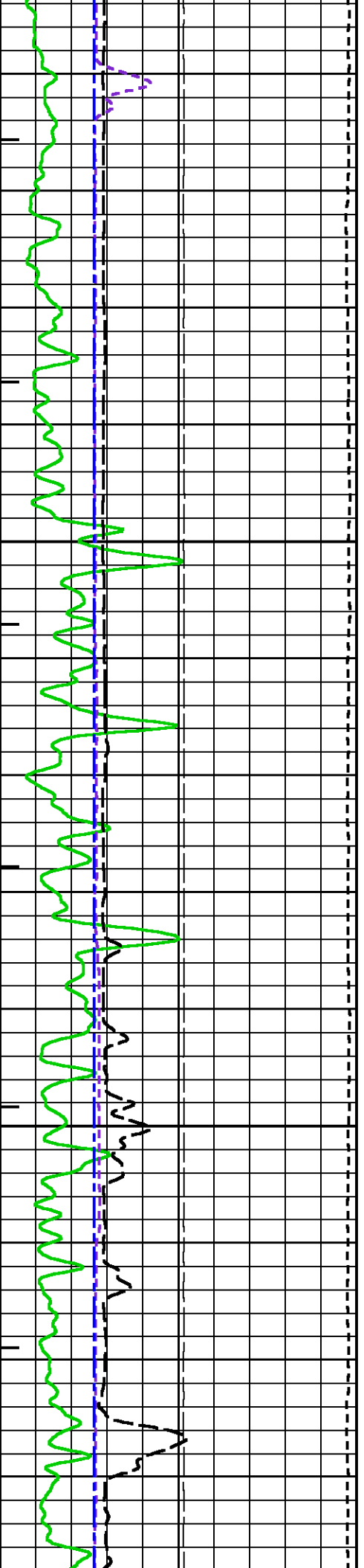
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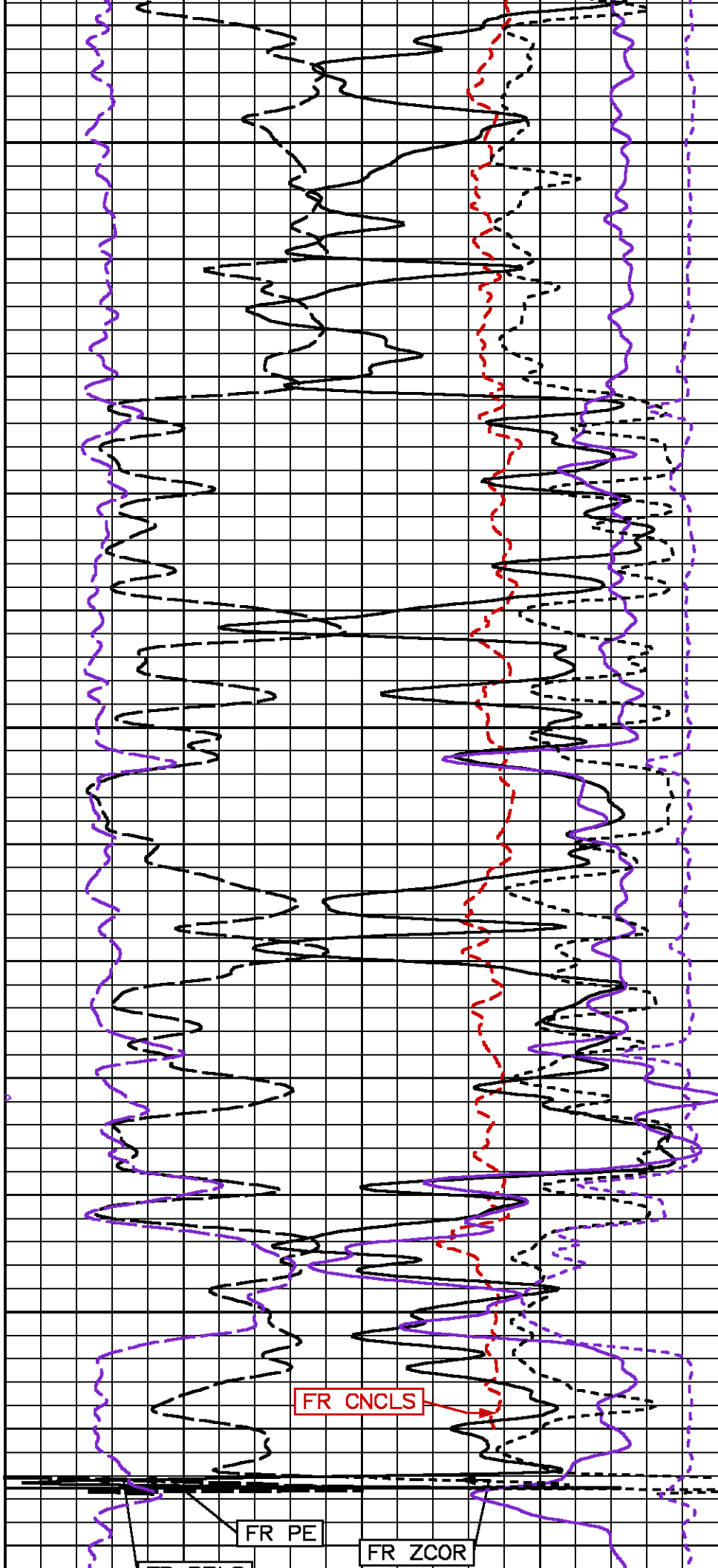




2900

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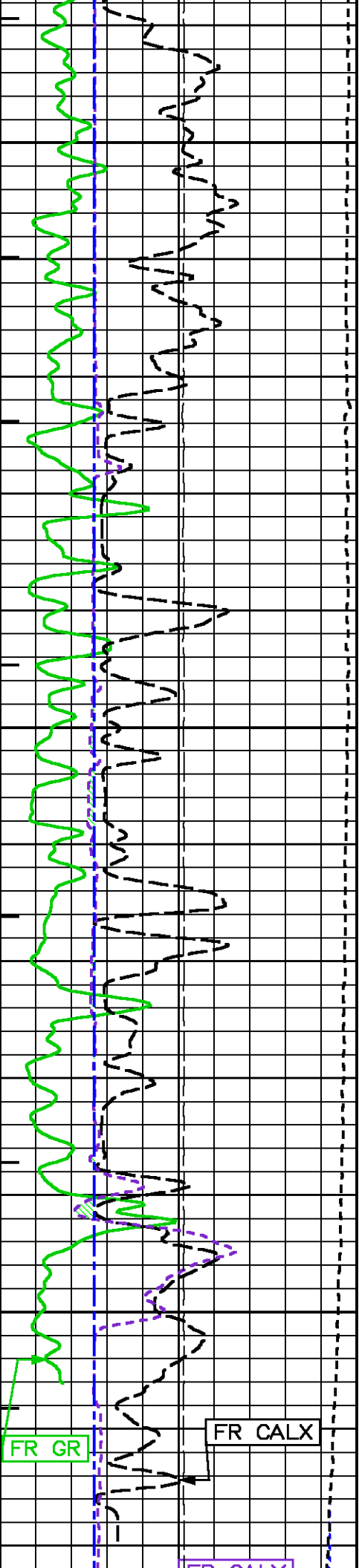


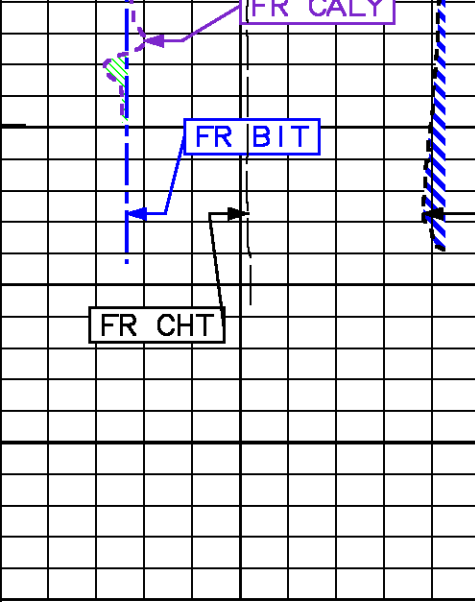


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2975

3000



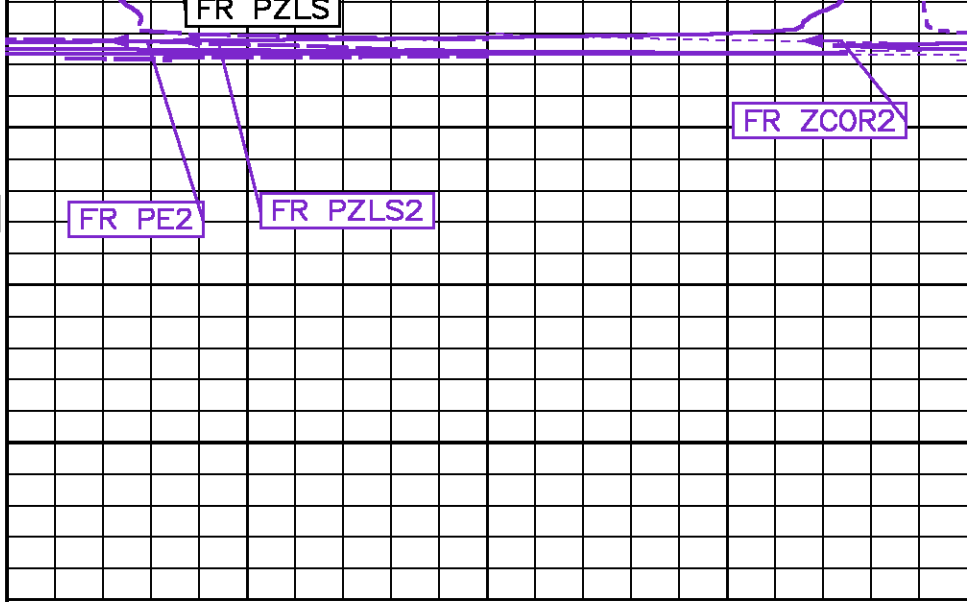


FR CALY

FR BIT

FR CHT

FR TEN

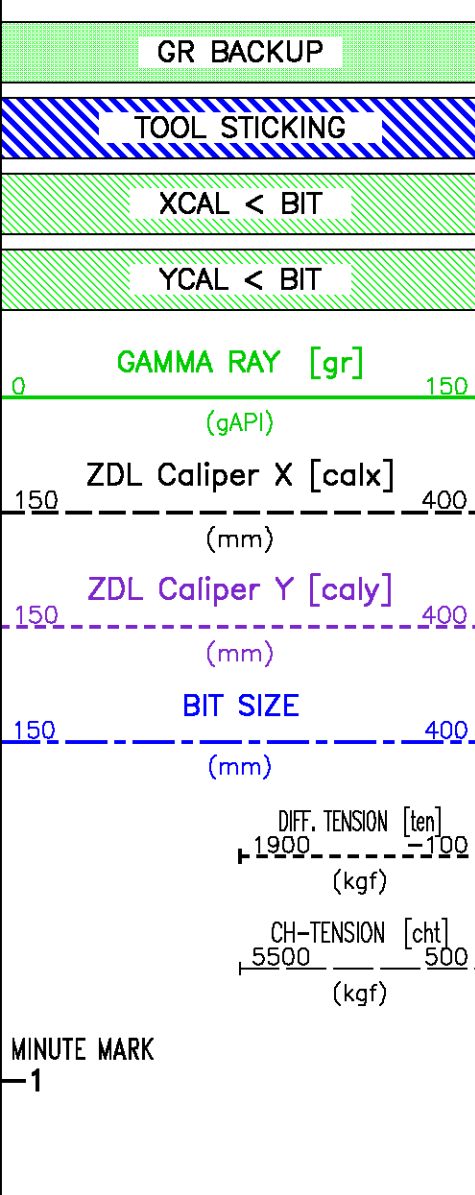


FR PZLS

FR PE2

FR PZLS2

FR ZCOR2



GR BACKUP

TOOL STICKING

XCAL < BIT

YCAL < BIT

GAMMA RAY [gr]

ZDL Caliper X [calx]

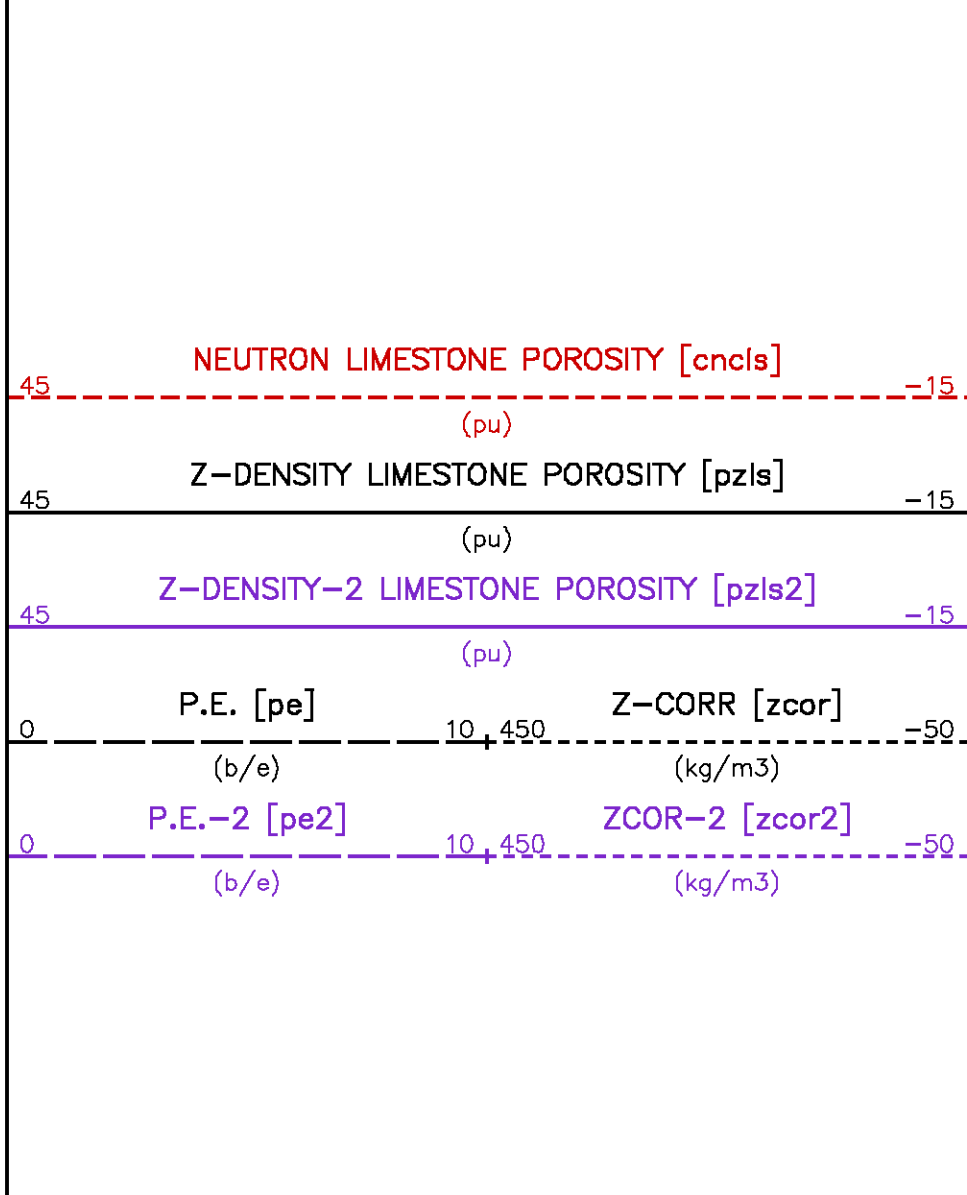
ZDL Caliper Y [caly]

BIT SIZE

DIFF. TENSION [ten]

CH-TENSION [cht]

MINUTE MARK



NEUTRON Limestone Porosity [cncls]

Z-Density Limestone Porosity [pzls]

Z-Density-2 Limestone Porosity [pzls2]

P.E. [pe]

Z-CORR [zcor]

P.E.-2 [pe2]

ZCOR-2 [zcor2]

MAIN LOG - DOLOMITE MATRIX

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pass/nalcor_finn_run2/m970b05.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 2237.845 m BOTTOM DEPTH: 3020.028 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CHT	FILTER ()	medium (1)		TOP	BOTTOM
GR MED RES	FILTER ()	medium (1)		''	''
CALIPER	FILTER ()	medium (1)		''	''
TENSION	FILTER ()	medium (1)		''	''
CN MED RES	FILTER ()	medium (1)		''	''
ZDL MED RES	FILTER (hrd1*)	medium		''	''
	FILTER (hrd12*)	medium		''	''
	FILTER (hrd1s*)	medium		''	''
	FILTER (hrd1s2*)	medium		''	''
	FILTER (hrd2*)	medium		''	''
	FILTER (hrd22*)	medium		''	''
	FILTER (hrd2s*)	medium		''	''
	FILTER (hrd2s2*)	medium		''	''
	FILTER (soft*)	medium		''	''
	FILTER (soft2*)	medium		''	''

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	177.800	mm	TOP	BOTTOM
	CASING THICKNESS	0.000	mm	''	''
X-Y COMBINED CALIPER PROCESSING-FOCUS	Caliper - FOCUS	Average		''	''
BIT SIZE	BIT SIZE	216.000	mm	''	''
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cnbh*)	USE CALIPER		''	''
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbh*)	216.000	mm	''	''

ACCELERATION PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
ACCEL CORR SWITCH	ACCEL DEPTH CORR	CORRECTION ON		TOP	BOTTOM

CN PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CN BOREHOLE CORRECTION	SALINITY	0	ppm	TOP	BOTTOM
	BOREHOLE CORRECTION	ON		''	''
CN CASING & CEMENT CORRECTION	CORRECTION	OFF		''	''
	BIT SIZE BEHIND CSNG	200.025	mm	''	''

ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
DENSITY POROSITY	Air Filled Borehole	NO		TOP	BOTTOM
	RHOfluid	1.000	g/cm3	''	''
	RHOmatrix (dolo)	2.860	g/cm3	''	''

CURVE DESCRIPTION REPORT

CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:BIT	Nov 27 20:22:40 2010	BIT SIZE
F1:CALX	Nov 27 20:22:40 2010	CALIPER FROM X-AXIS OF XY CALIPER(S)
F1:CALY	Nov 27 20:22:40 2010	CALIPER FROM Y-AXIS OF XY CALIPER(S)
F1:CHT	Nov 27 20:22:40 2010	CABLE HEAD TENSION
F1:CNCDL	Nov 27 20:22:40 2010	BOREHOLE SIZE CORRECTED DOLOMITE COMPENSATED NEU POROSITY
F1:GR	Nov 27 20:22:40 2010	GAMMA RAY
F1:MMRK	Nov 27 20:22:40 2010	MINUTE MARK
F1:PE	Nov 27 20:22:40 2010	PHOTO ELECTRIC CROSS-SECTION

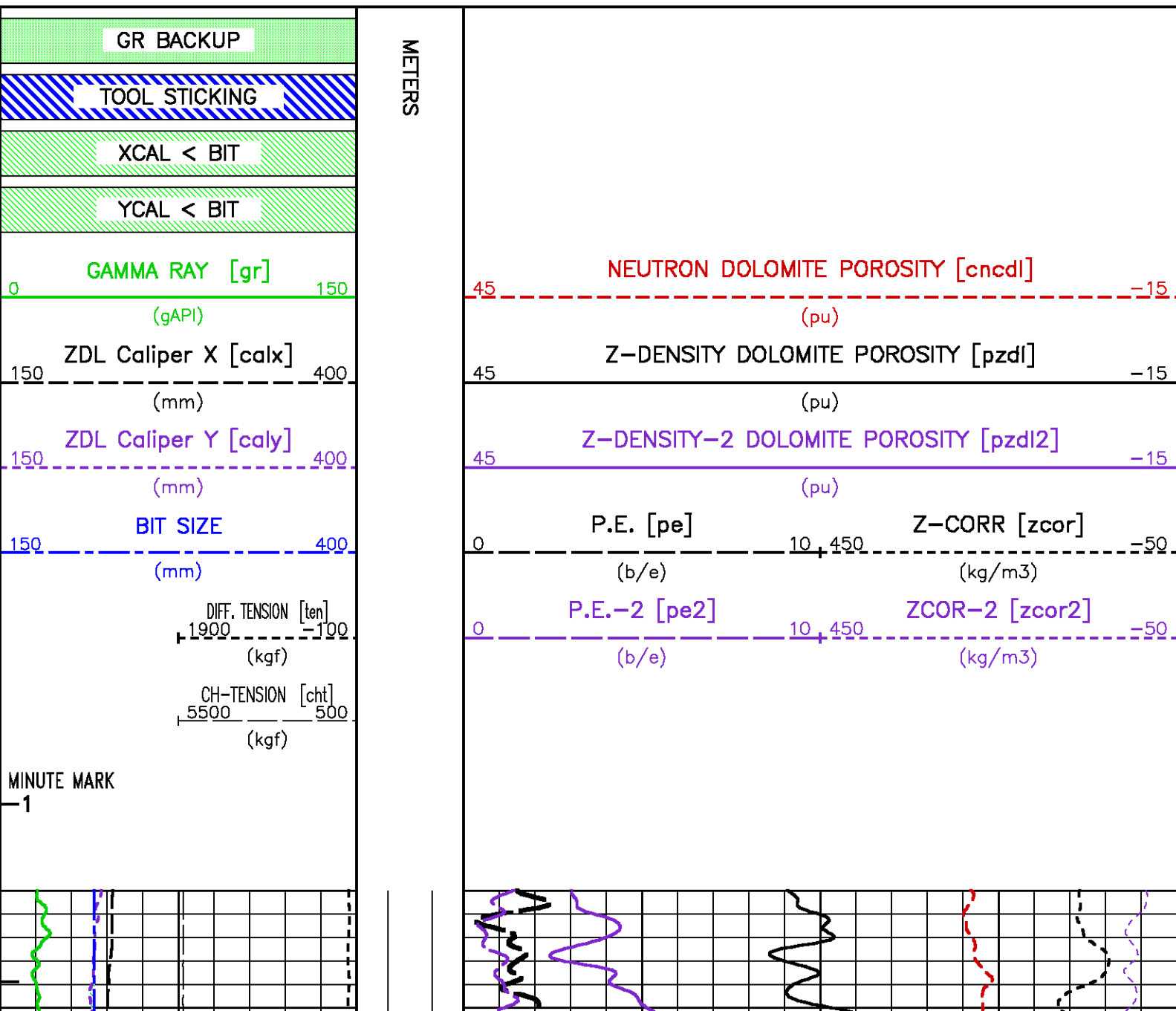
F1:PE2	Nov 27 20:22:40 2010	PHOTOELECTRIC CROSS-SECTION (2ND TOOL)
F1:PZDL	Nov 27 20:22:40 2010	POROSITY FOR DOLOMITE MATRIX
F1:PZDL2	Nov 27 20:22:40 2010	POROSITY FOR DOLOMITE MATRIX (2ND TOOL)
F1:TEN	Nov 27 20:22:40 2010	DIFFERENTIAL TENSION
F1:ZCOR	Nov 27 20:22:40 2010	DENSITY CORRECTION
F1:ZCOR2	Nov 27 20:22:40 2010	DENSITY CORRECTION (2ND TOOL)

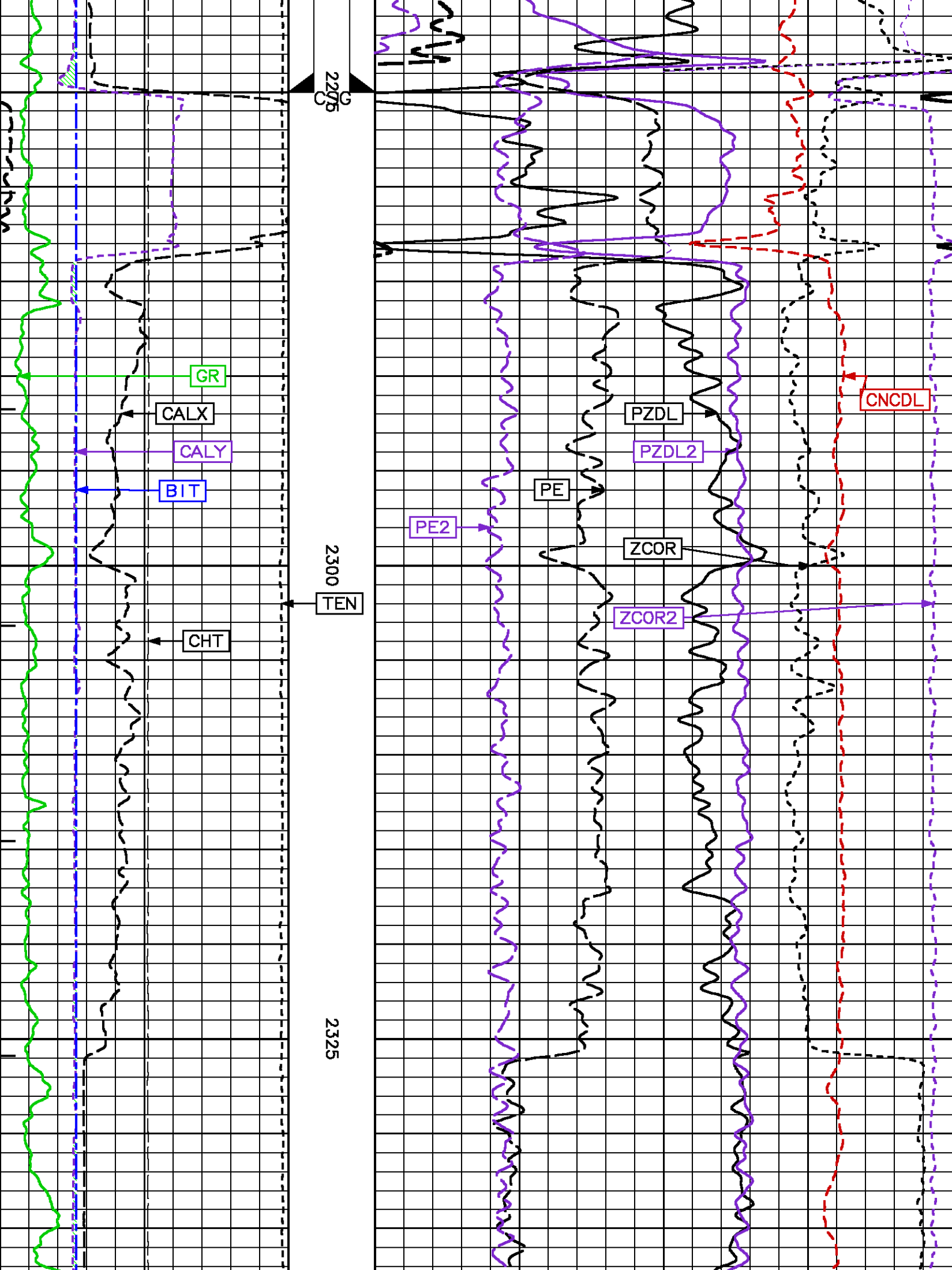
CURVE MEASURE POINT OFFSET

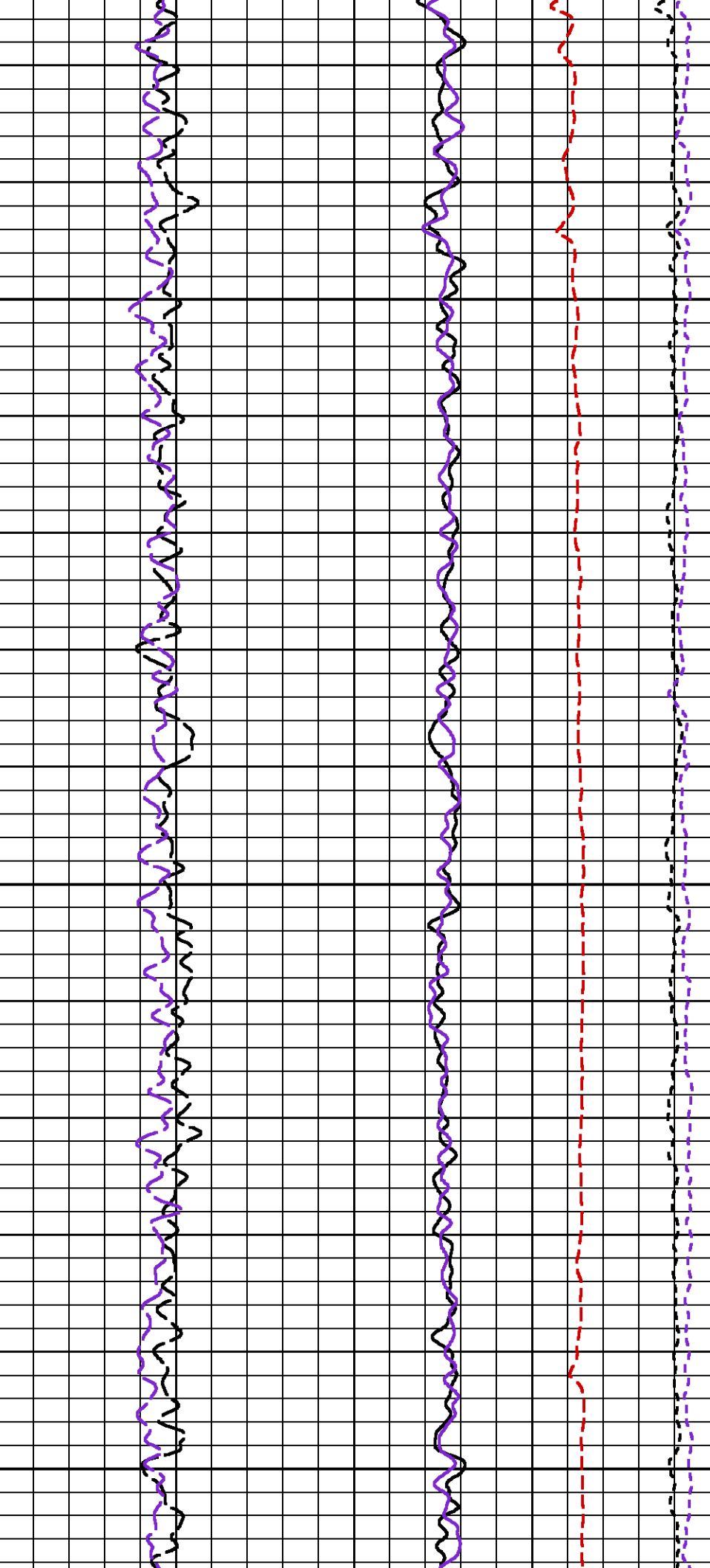
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CNCDL	13.41	PZDL	10.55	ZCOR2	5.49
CALX	10.55	GR	15.70	PZDL2	5.49		
CALY	5.49	PE	10.55	TEN	0.00		
CHT	0.00	PE2	5.49	ZCOR	10.55		

Presentation : cpu1:/dat1a/pass/nalcor_flnn_run2/zdl2_main_dl.pdf [1:240 Scale]
Plot Interval : 2265 - 3025 Meters

Data File 1 : F1 : cpu1:/dat1a/pass/nalcor_flnn_run2/r2t2_main.xtf
Created On : Nov 27 20:22:40 2010
Company : NALCOR ENERGY
Well : NALCOR ET AL FINNEGAN 1
Field : FINNEGAN
File Interval : 2221.92 - 3023.84 Meters
Oct : m970b



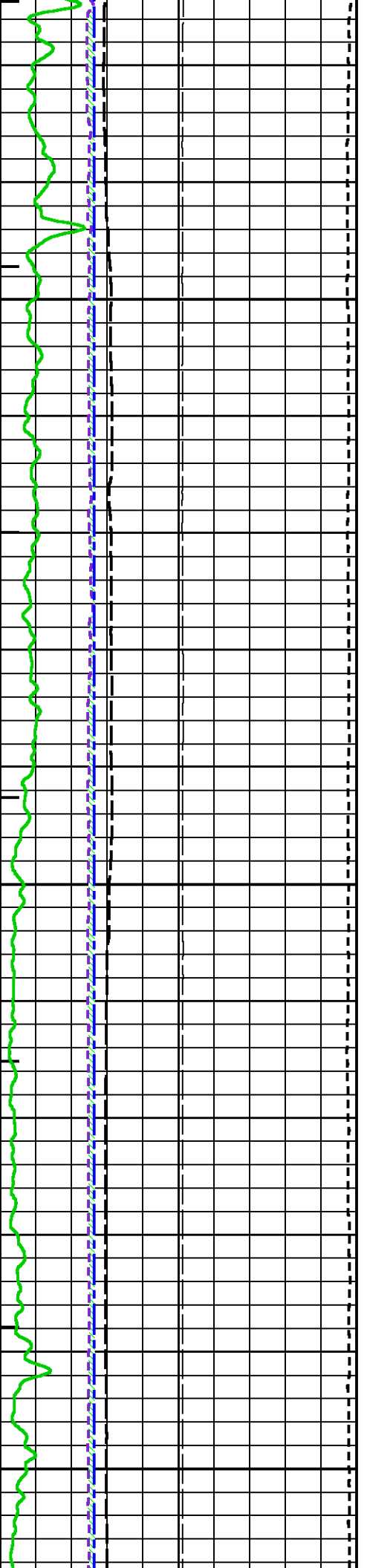


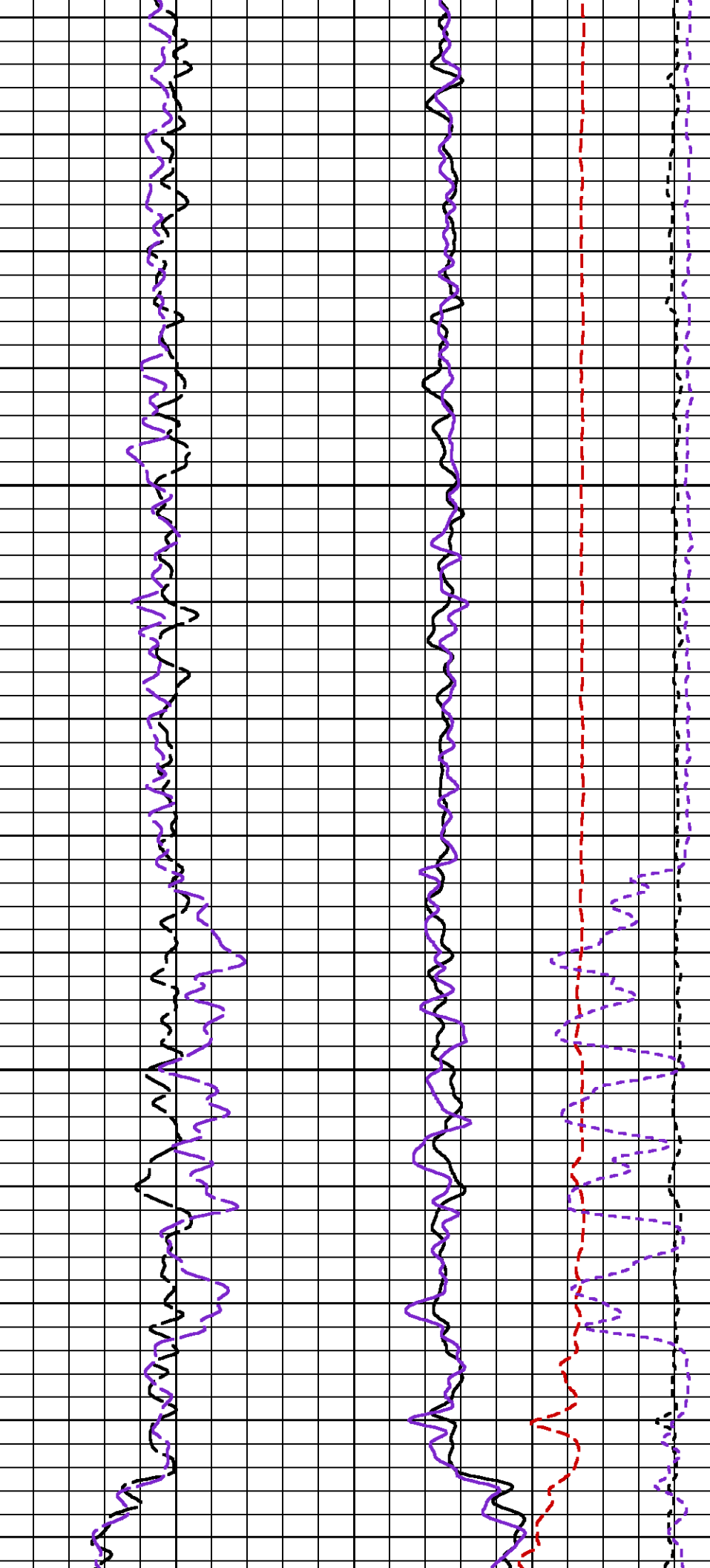


2350

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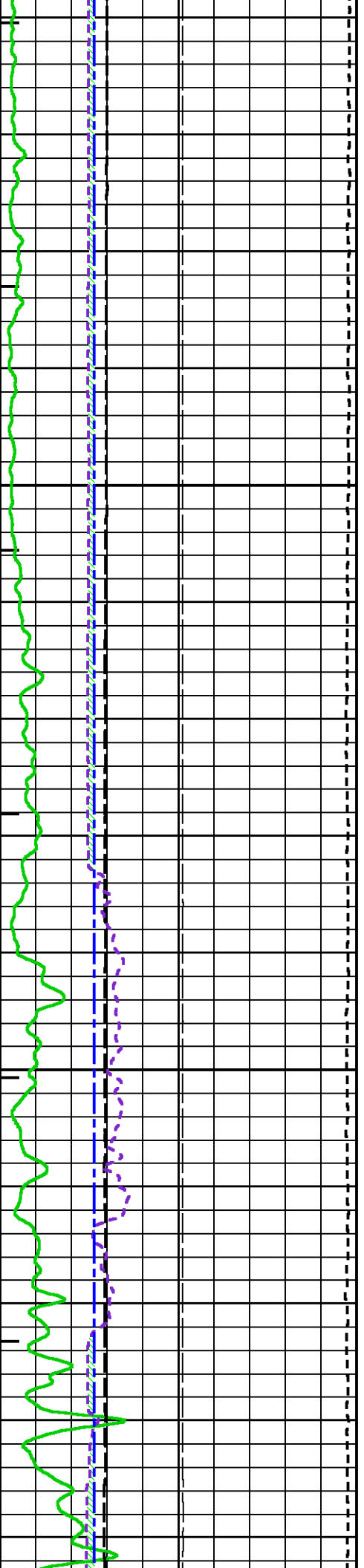
2400

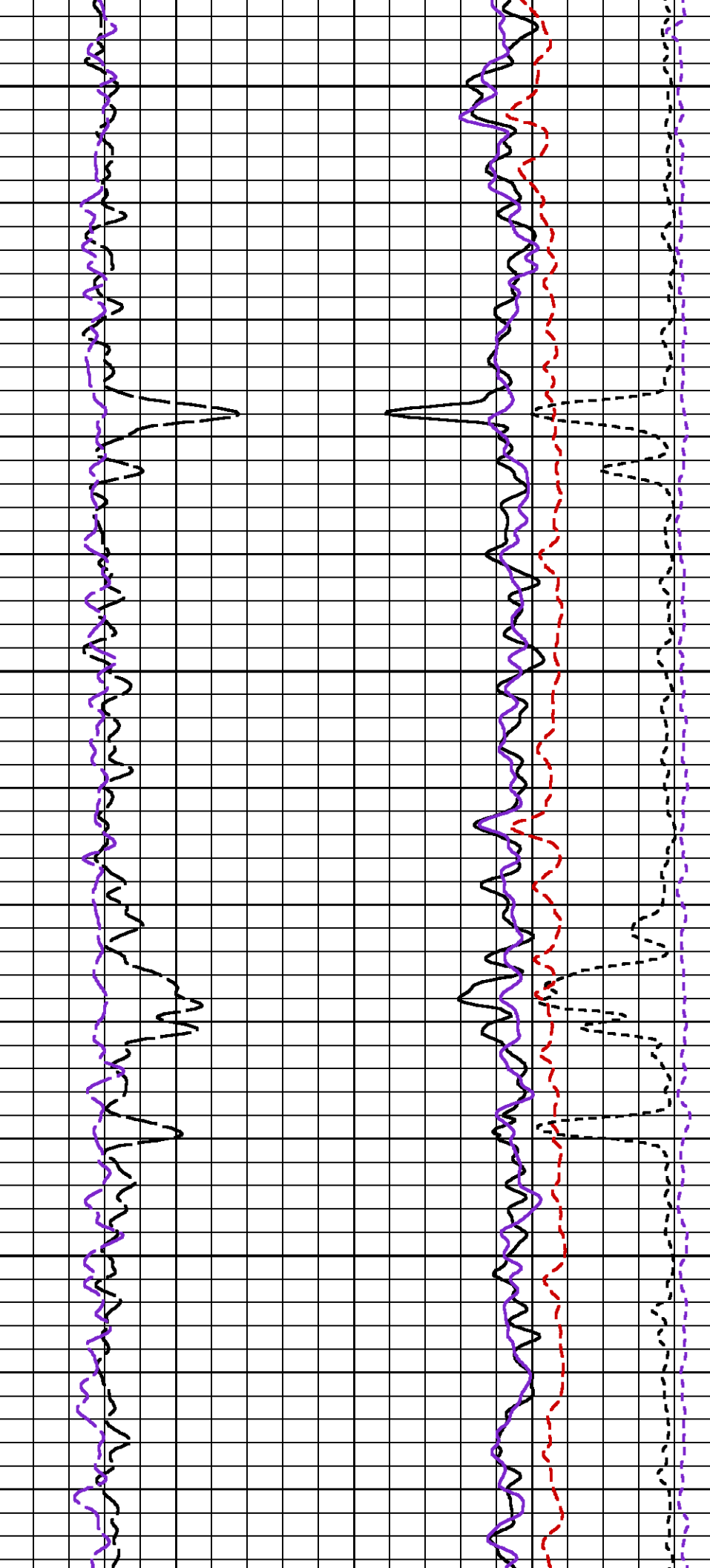




2425

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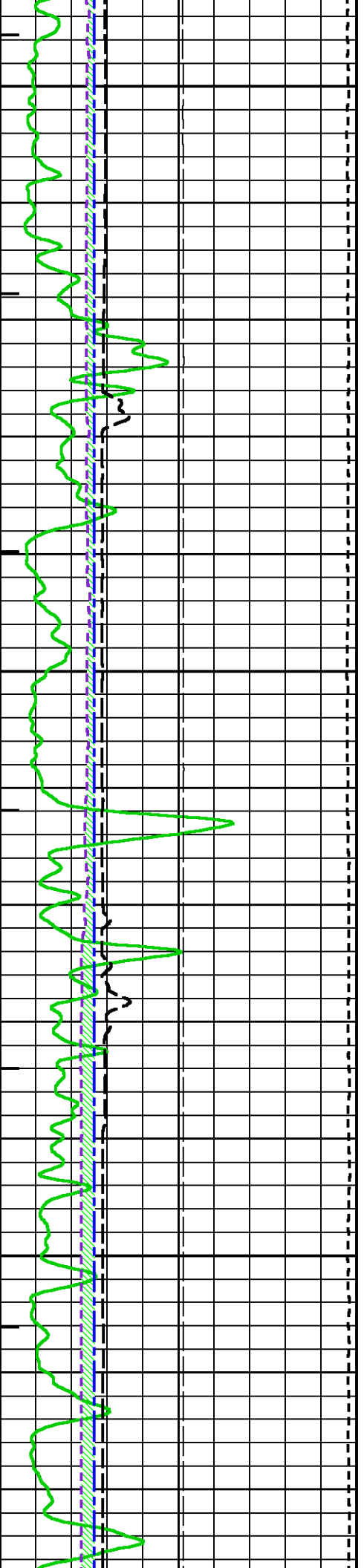


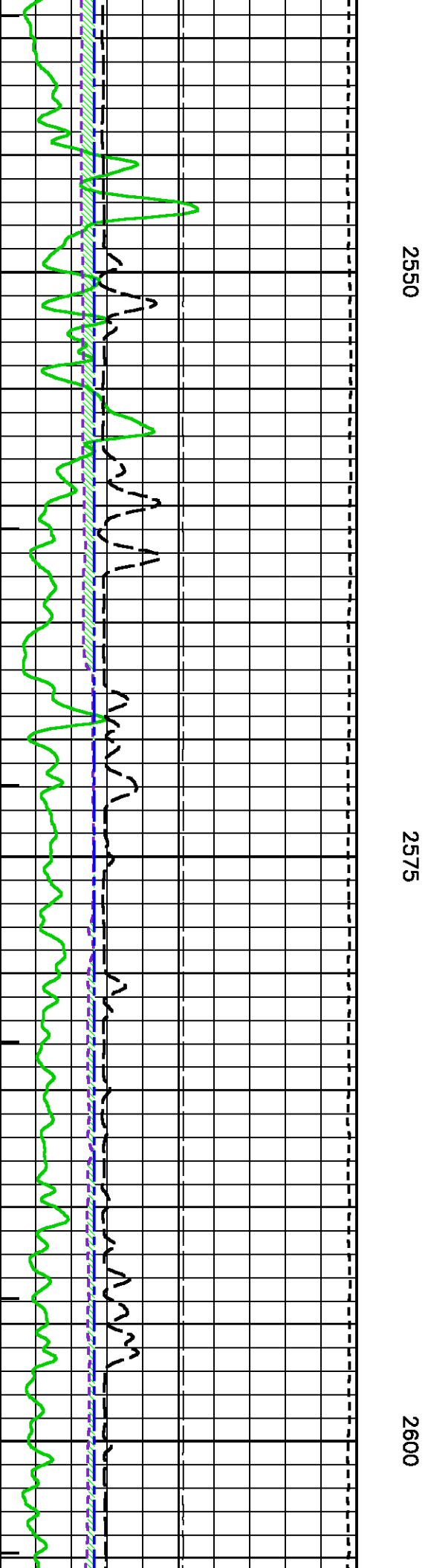
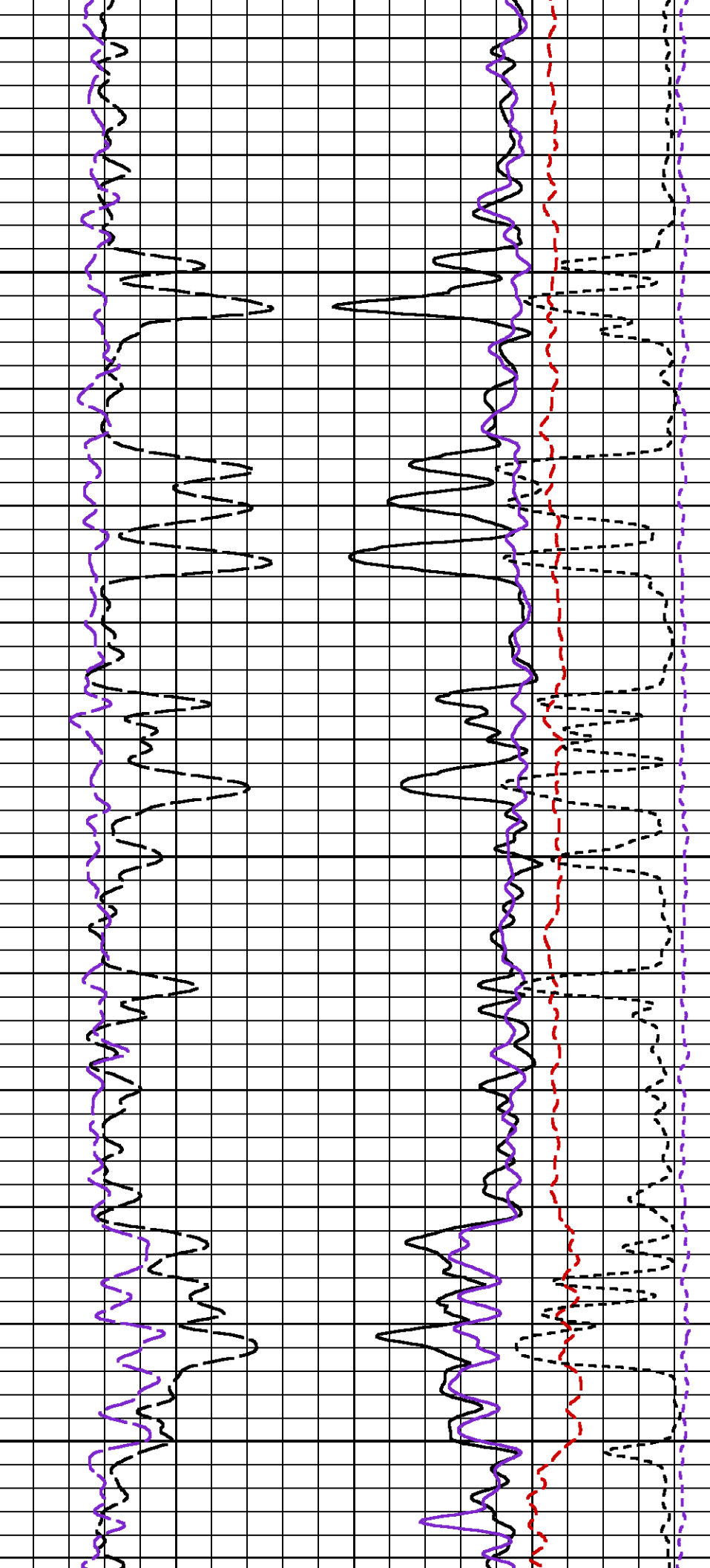


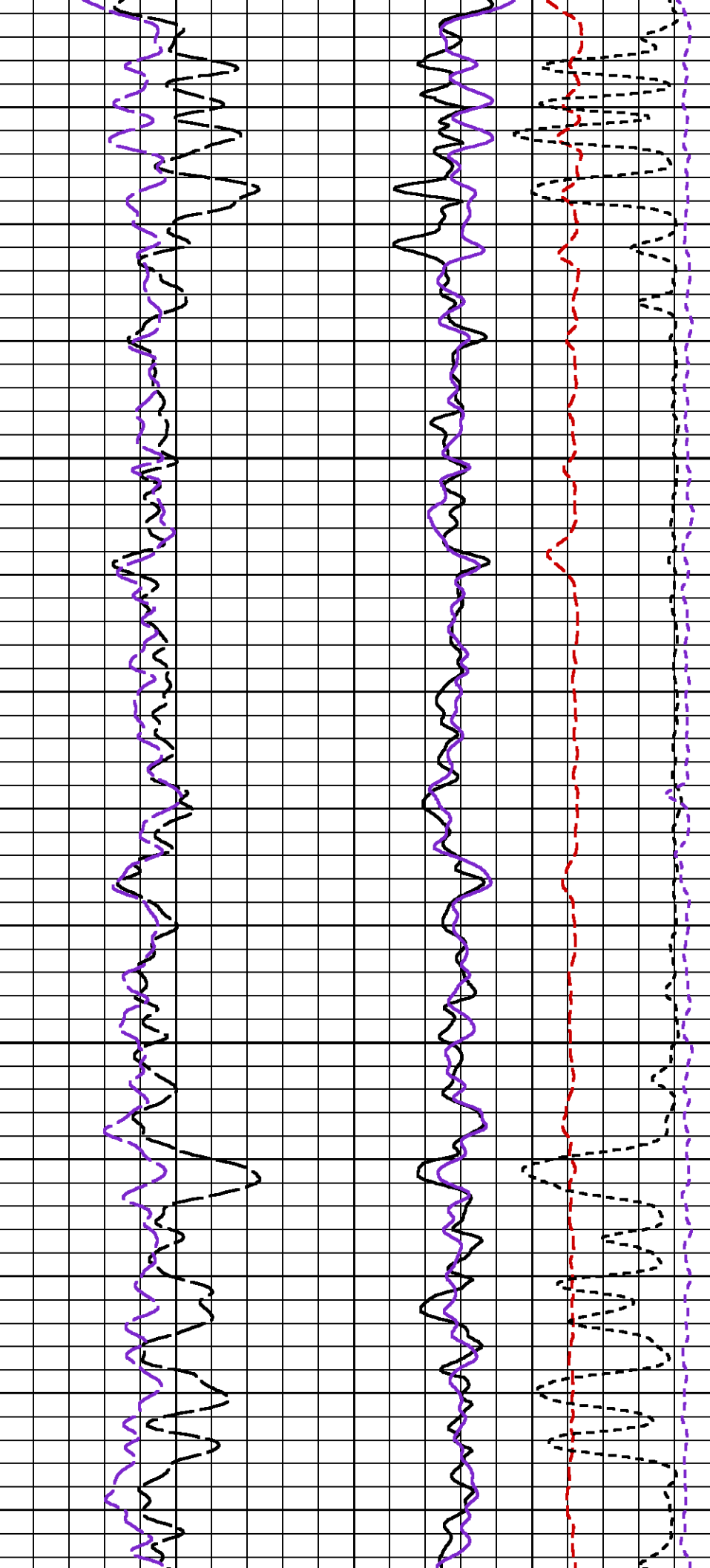
2475

2500

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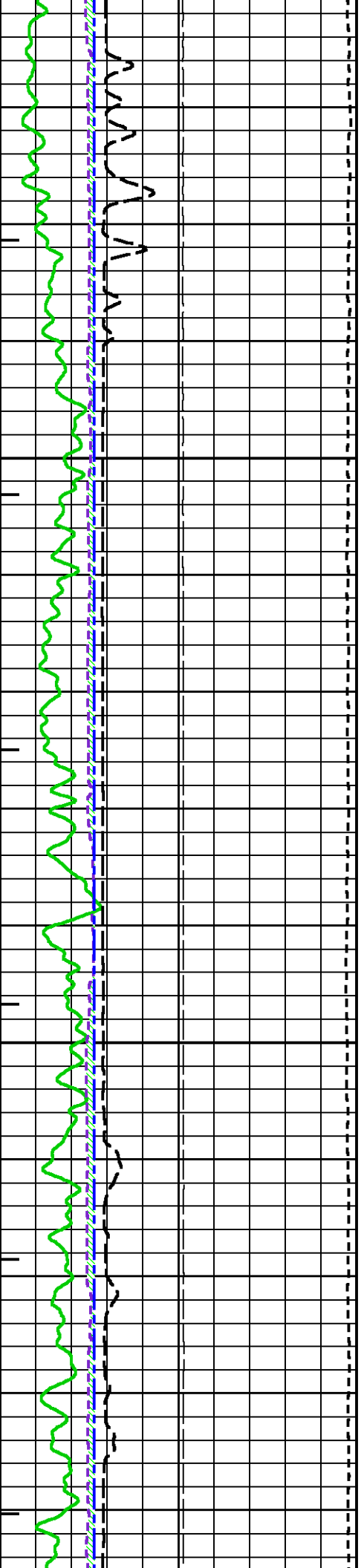


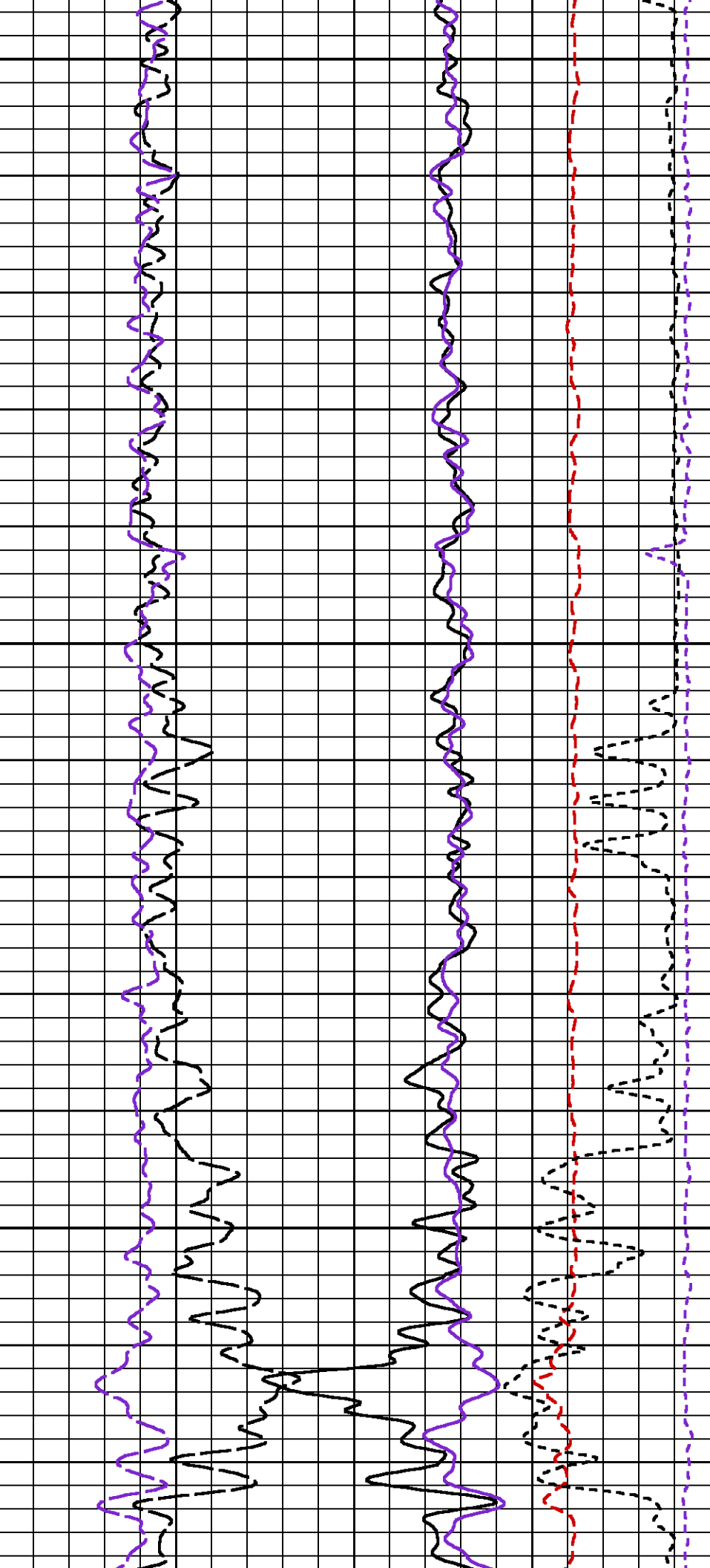




2625

2650

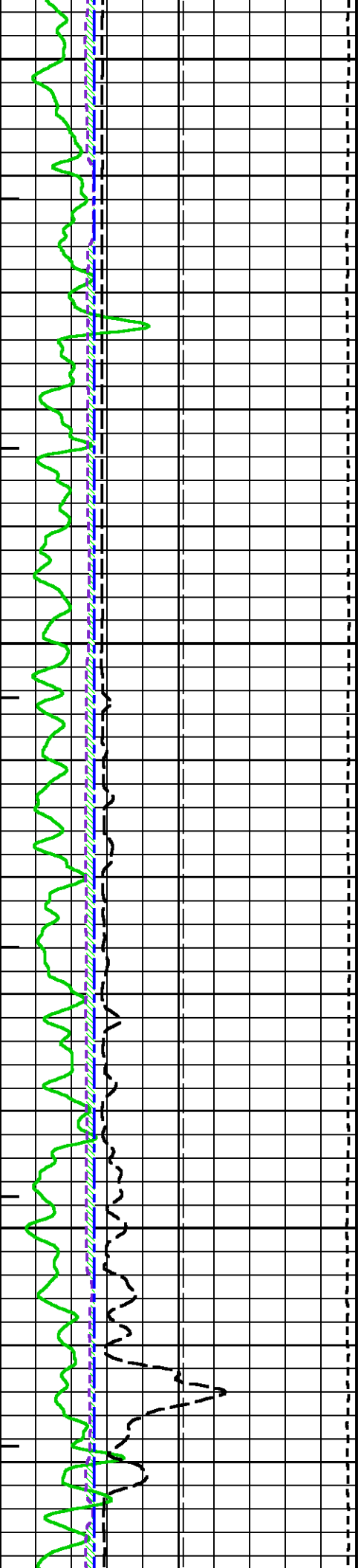


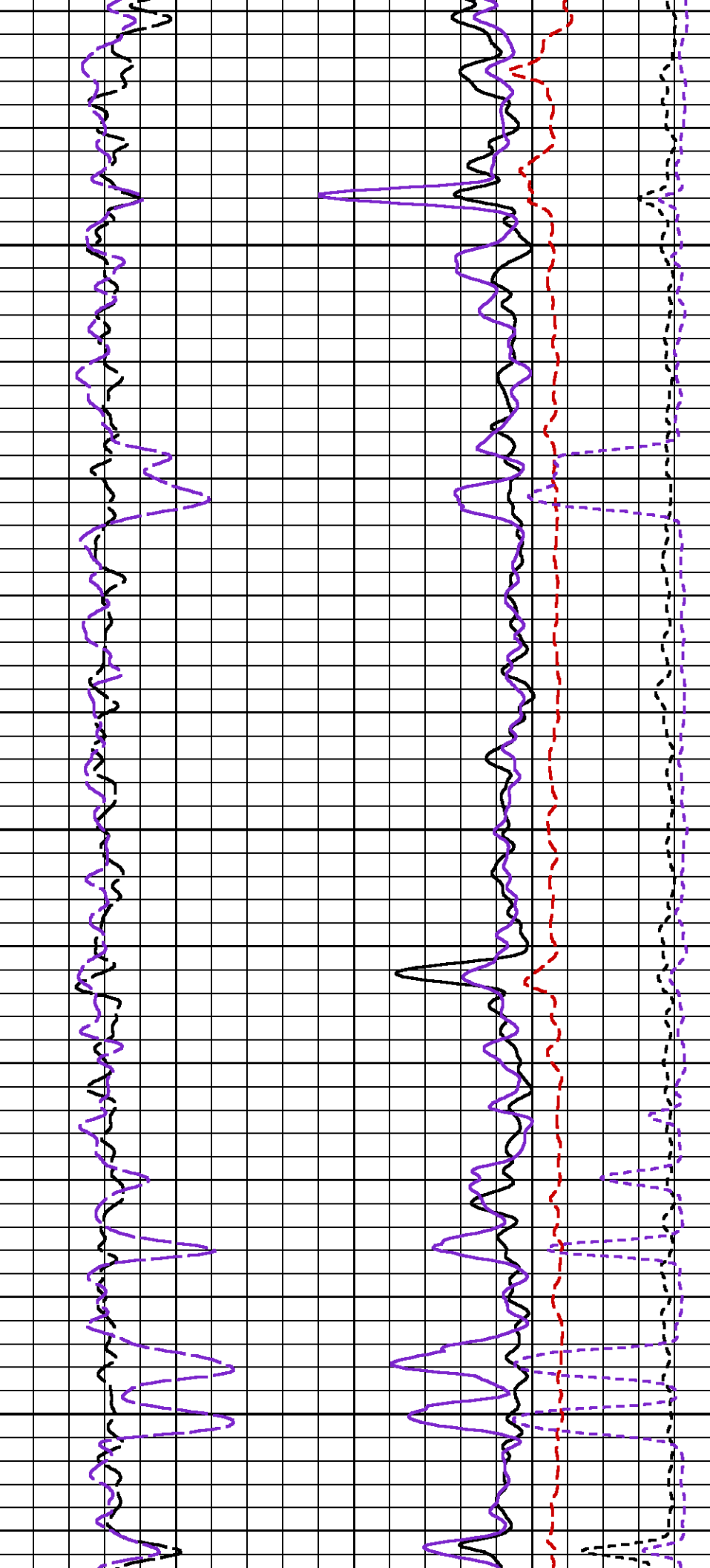


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2700

2725

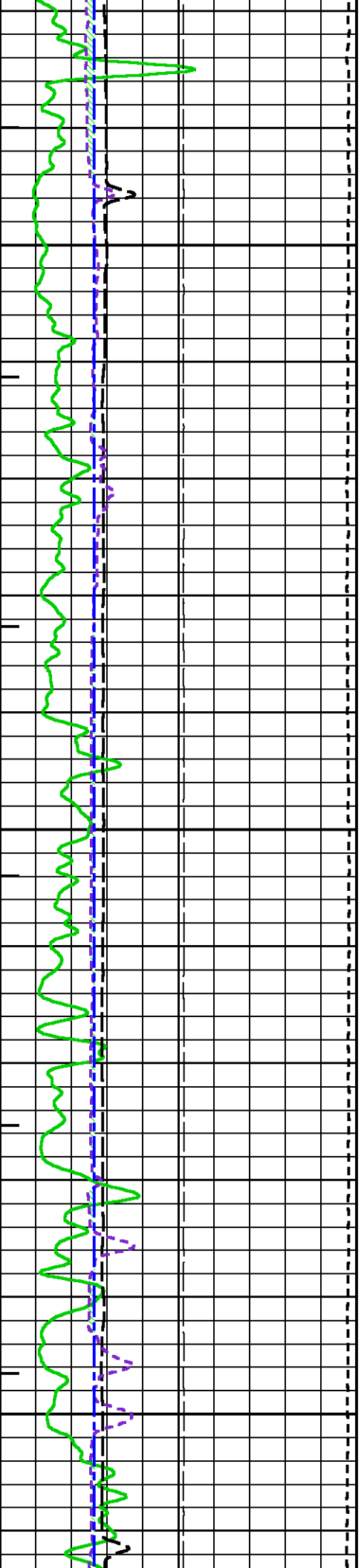


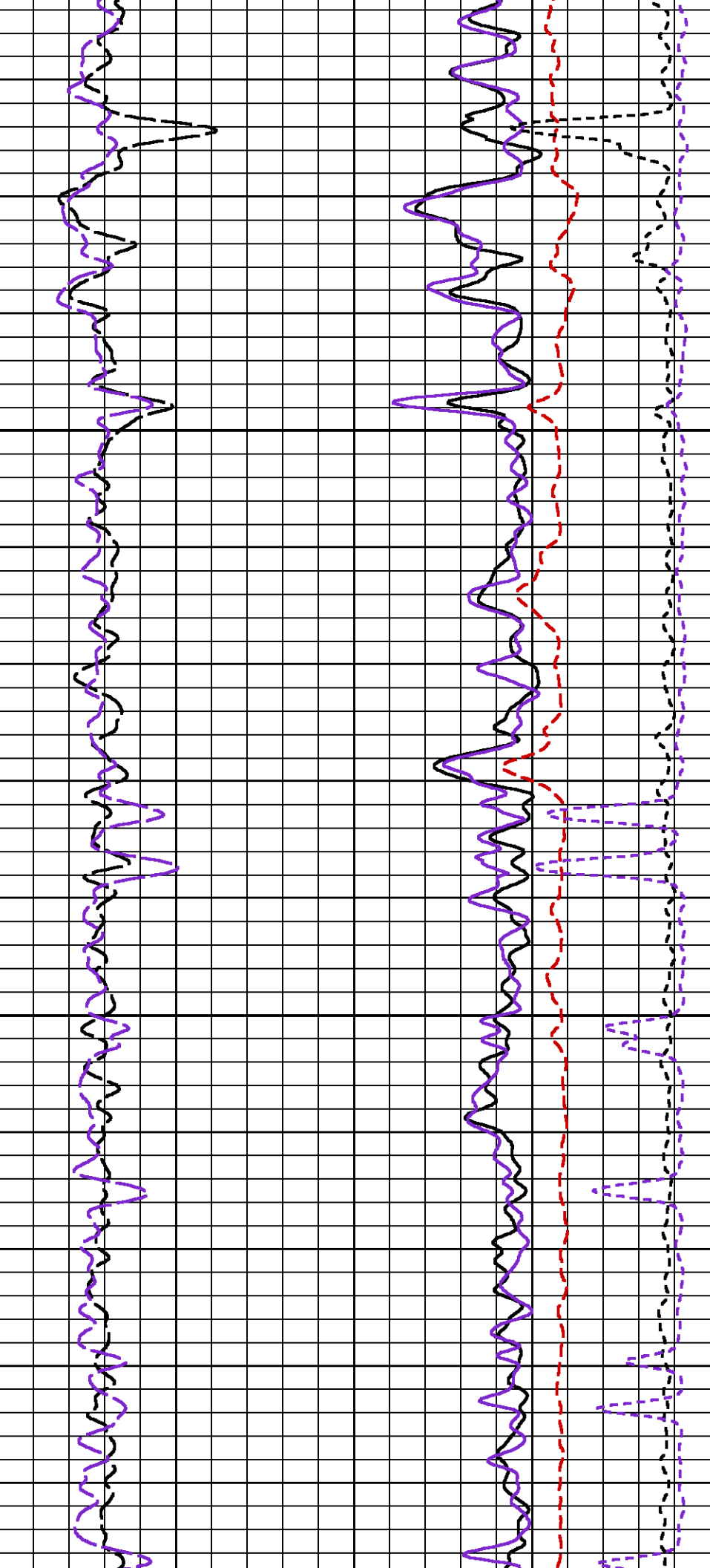


2750

2775

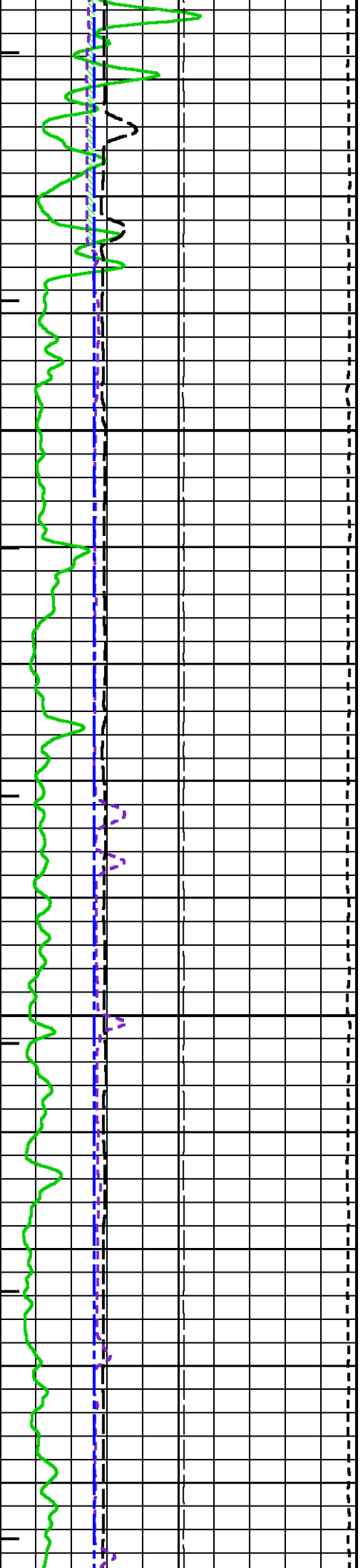
2800

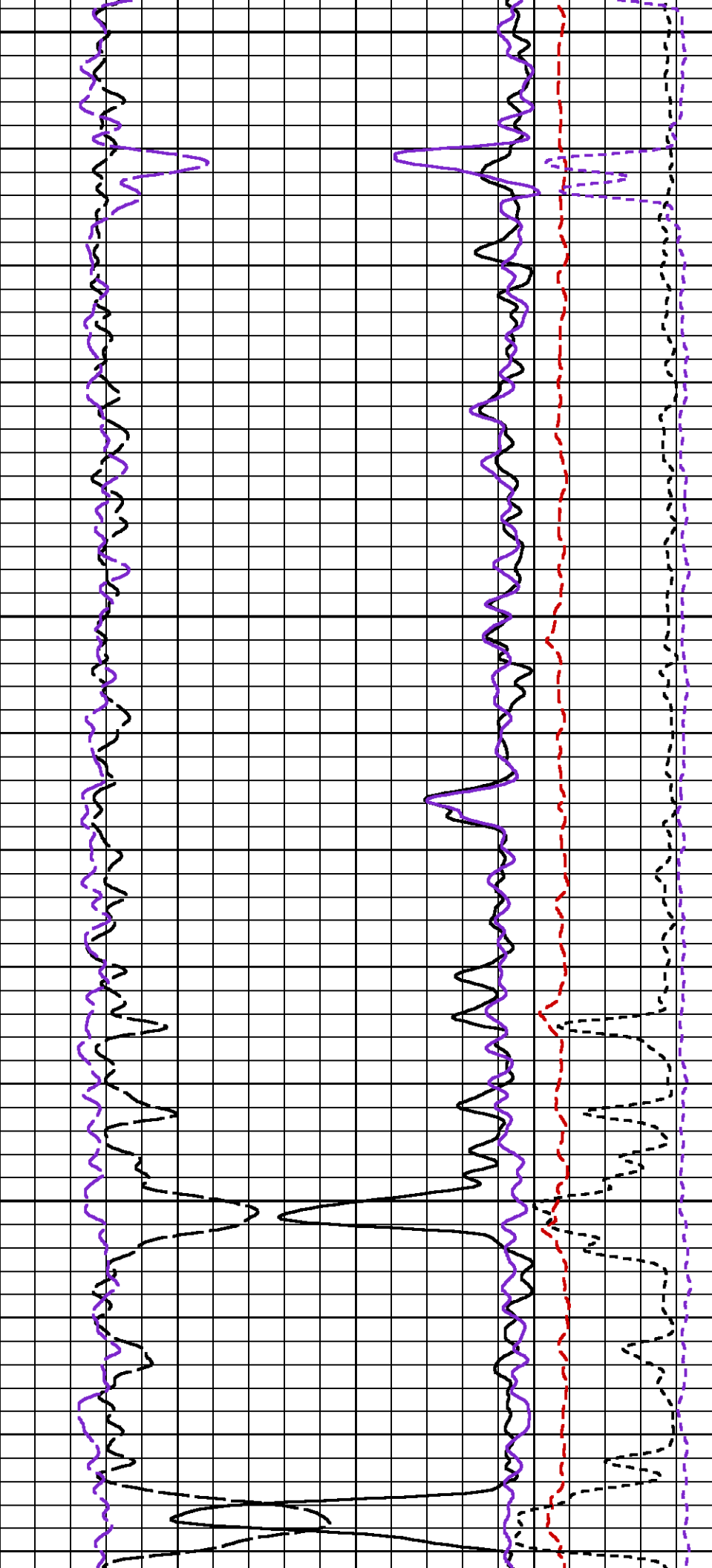




2825

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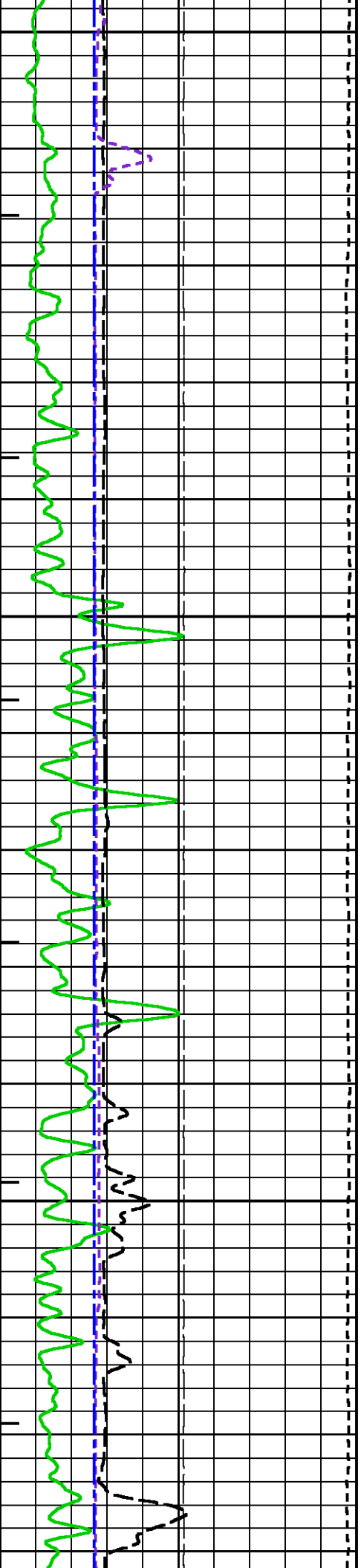


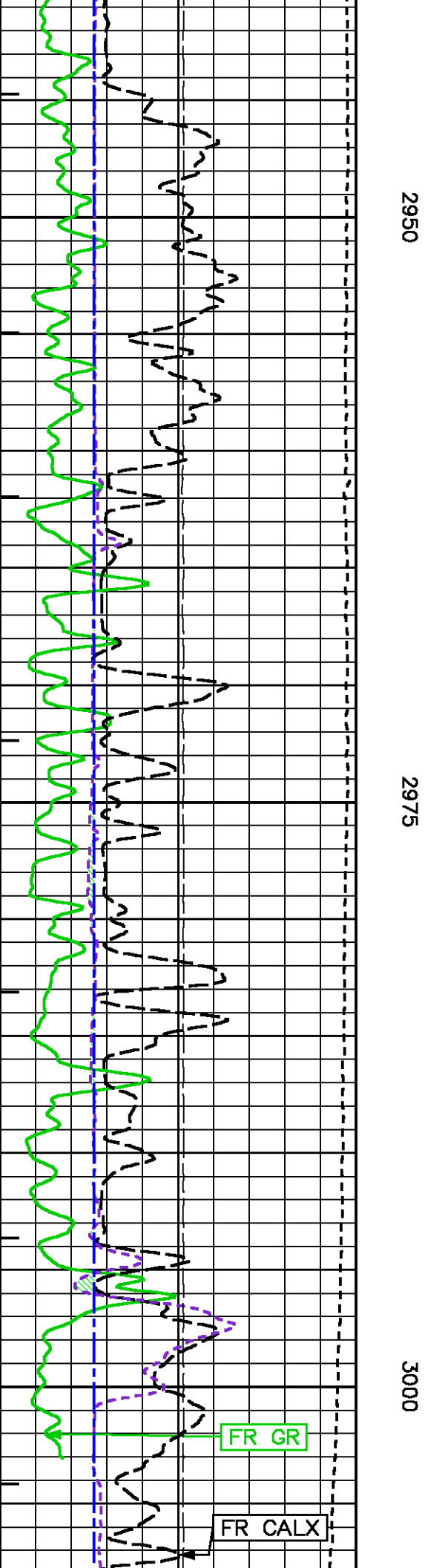
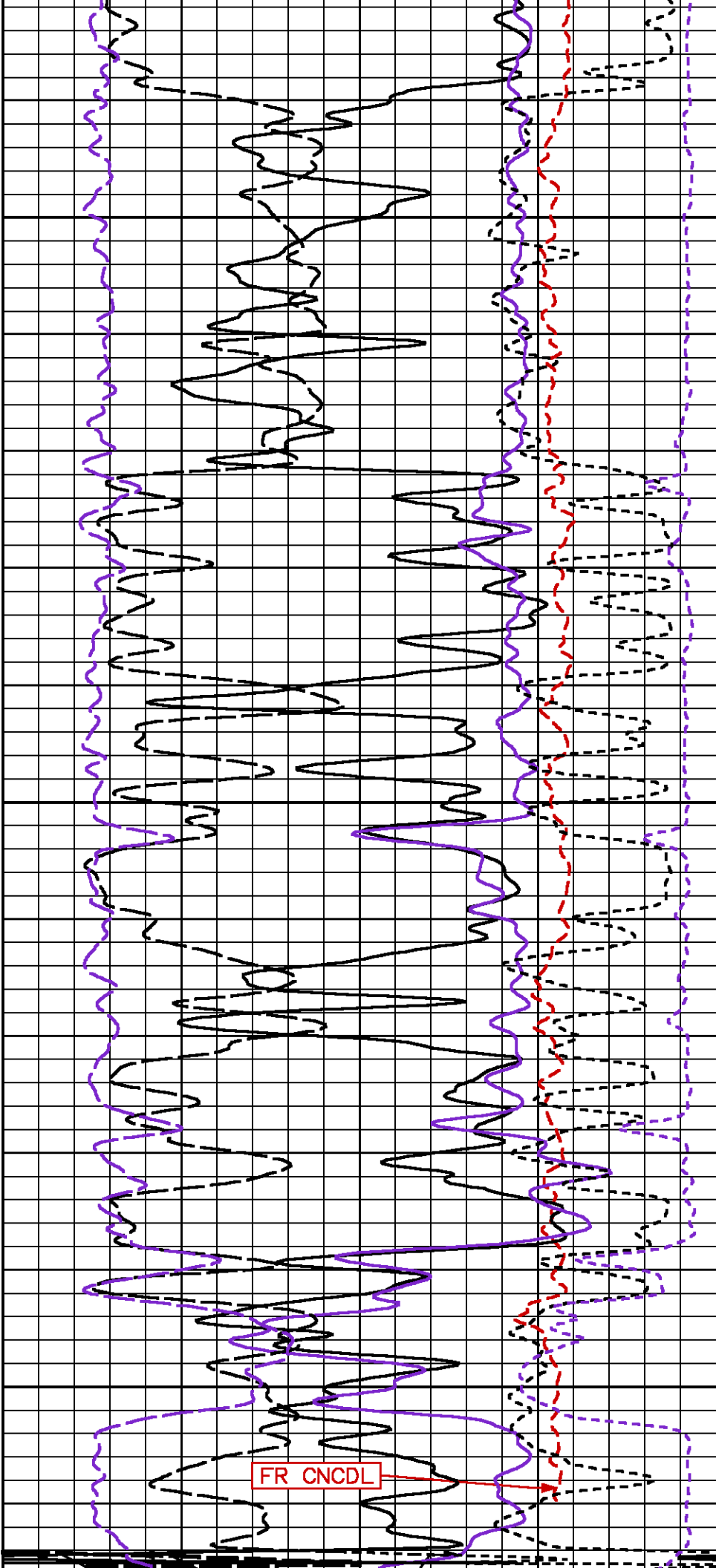


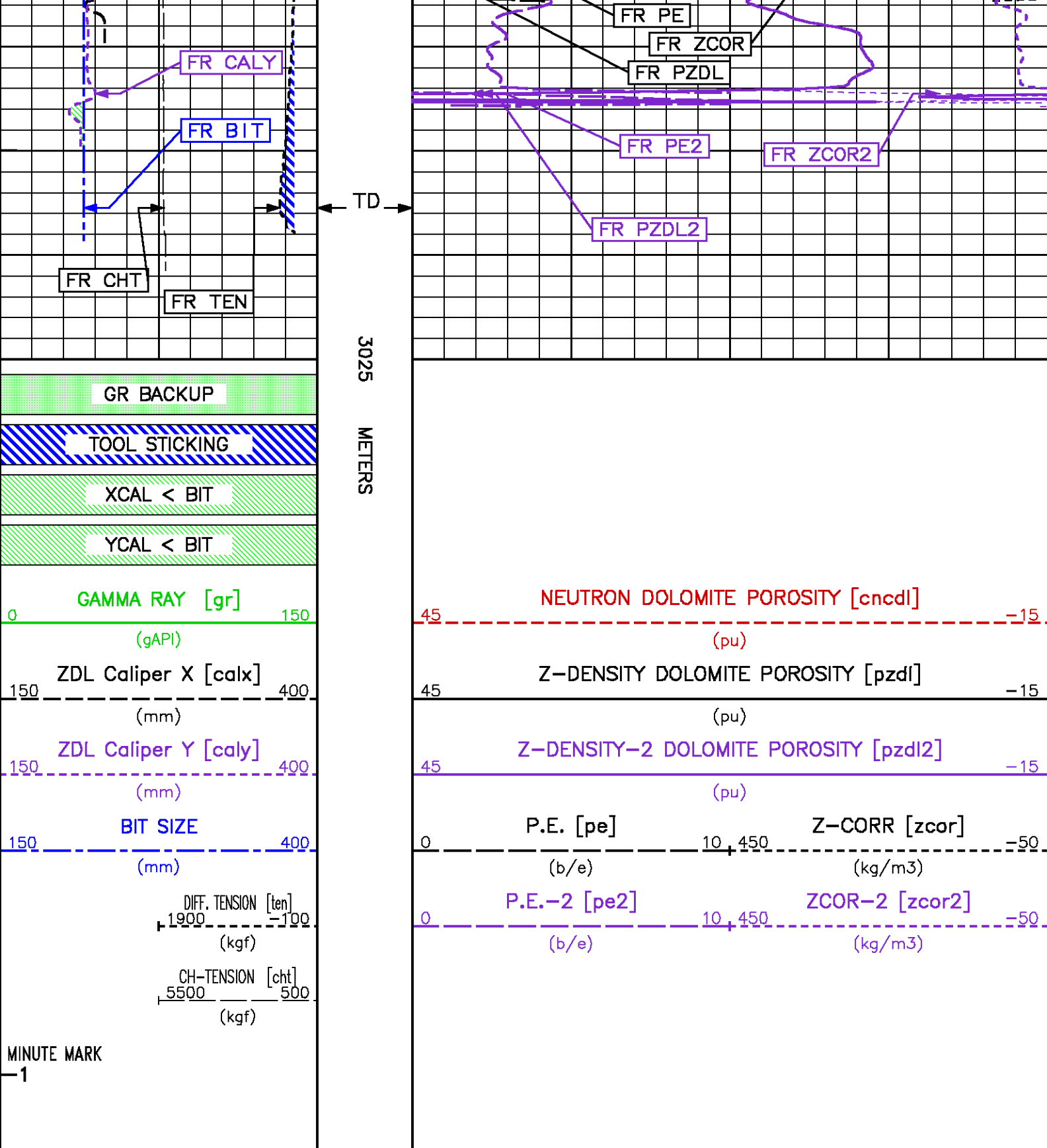
2875

2900

2925







REPEAT LOG - LIMESTONE MATRIX

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pass/nalcor_finn_run2/m970b03.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 2242.668 m BOTTOM DEPTH: 2400.026 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CHT	FILTER ()	medium (1)		TOP	BOTTOM
GR MED RES	FILTER ()	medium (1)		''	''
CALIPER	FILTER ()	medium (1)		''	''
TENSION	FILTER ()	medium (1)		''	''
CN MED RES	FILTER ()	medium (1)		''	''
ZDL MED RES	FILTER (hrd1*)	medium		''	''
	FILTER (hrd12*)	medium		''	''
	FILTER (hrd1s*)	medium		''	''
	FILTER (hrd1s2*)	medium		''	''
	FILTER (hrd2*)	medium		''	''
	FILTER (hrd22*)	medium		''	''
	FILTER (hrd2s*)	medium		''	''
	FILTER (hrd2s2*)	medium		''	''
	FILTER (soft*)	medium		''	''
	FILTER (soft2*)	medium		''	''

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	177.800	mm	TOP	BOTTOM
	CASING THICKNESS	0.000	mm	''	''
X-Y COMBINED CALIPER PROCESSING-FOCUS	SY Caliper - FOCUS	Average		''	''
BIT SIZE	BIT SIZE	216.000	mm	''	''
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cnbh*)	USE CALIPER		''	''
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbh*)	216.000	mm	''	''

ACCELERATION PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
ACCEL CORR SWITCH	ACCEL DEPTH CORR	CORRECTION ON		TOP	BOTTOM

CN PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CN BOREHOLE CORRECTION	SALINITY	0	ppm	TOP	BOTTOM
	BOREHOLE CORRECTION	ON		''	''
CN CASING & CEMENT CORRECTION	CORRECTION	OFF		''	''
	BIT SIZE BEHIND CSNG	200.025	mm	''	''

ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
DENSITY POROSITY	Air Filled Borehole	NO		TOP	BOTTOM
	RHOfluid	1.000	g/cm3	''	''
	RHOmatrix (lime)	2.710	g/cm3	''	''

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pass/nalcor_finn_run2/m970bR01.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 2242.668 m BOTTOM DEPTH: 2400.026 m

SYMMETRIC FILTER

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

CN MED RES	FILTER ()	medium (1)	''	''
ZDL MED RES	FILTER (hrd1*)	medium	''	''
	FILTER (hrd12*)	medium	''	''
	FILTER (hrd1s*)	medium	''	''
	FILTER (hrd1s2*)	medium	''	''
	FILTER (hrd2*)	medium	''	''
	FILTER (hrd22*)	medium	''	''
	FILTER (hrd2s*)	medium	''	''
	FILTER (hrd2s2*)	medium	''	''
	FILTER (soft*)	medium	''	''
	FILTER (soft2*)	medium	''	''

BOREHOLE & CEMENT					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	0.000	mm	TOP	BOTTOM
	CASING THICKNESS	0.000	mm	''	''
X-Y COMBINED CALIPER PROCESSING-FOCUS	Caliper - FOCUS	Average		''	''
BIT SIZE	BIT SIZE	216.000	mm	''	''
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cnbh*)	USE CALIPER		''	''
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbh*)	216.000	mm	''	''

ACCELERATION PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
ACCEL CORR SWITCH	ACCEL DEPTH CORR	CORRECTION ON		TOP	BOTTOM

CN PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CN BOREHOLE CORRECTION	SALINITY	0	ppm	TOP	BOTTOM
	BOREHOLE CORRECTION	ON		''	''
CN CASING & CEMENT CORRECTION	CORRECTION	OFF		''	''
	BIT SIZE BEHIND CSNG	200.025	mm	''	''

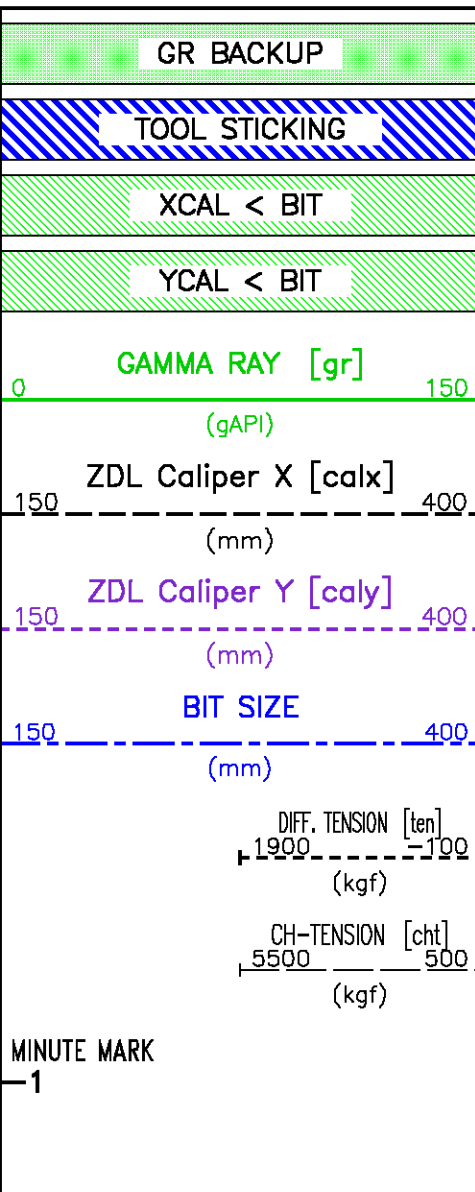
ZDL PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
DENSITY POROSITY	Air Filled Borehole	NO		TOP	BOTTOM
	RHOfluid	1.000	g/cm3	''	''
	RHOmatrix (lime)	2.710	g/cm3	''	''

CURVE DESCRIPTION REPORT		
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:BIT	Nov 27 19:31:37 2010	BIT SIZE
F1:CALX	Nov 27 19:31:37 2010	CALIPER FROM X-AXIS OF XY CALIPER(S)
F1:CALY	Nov 27 19:31:37 2010	CALIPER FROM Y-AXIS OF XY CALIPER(S)
F1:CHT	Nov 27 19:31:37 2010	CABLE HEAD TENSION
F1:CNCLS	Nov 27 19:31:37 2010	BOREHOLE SIZE CORRECTED LIMESTONE COMPENSATED NEU POROSITY
F1:GR	Nov 27 19:31:37 2010	GAMMA RAY
F1:MMRK	Nov 27 19:31:37 2010	MINUTE MARK
F1:PE	Nov 27 19:31:37 2010	PHOTO ELECTRIC CROSS-SECTION
F1:PE2	Nov 27 19:31:37 2010	PHOTOELECTRIC CROSS-SECTION (2ND TOOL)
F1:PZLS	Nov 27 19:31:37 2010	POROSITY FOR LIMESTONE MATRIX
F1:PZLS2	Nov 27 19:31:37 2010	POROSITY FOR LIMESTONE MATRIX (2ND TOOL)
F1:TEN	Nov 27 19:31:37 2010	DIFFERENTIAL TENSION
F1:ZCOR	Nov 27 19:31:37 2010	DENSITY CORRECTION
F1:ZCOR2	Nov 27 19:31:37 2010	DENSITY CORRECTION (2ND TOOL)

CURVE MEASURE POINT OFFSET							
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CNCLS	13.41	PZLS	10.55	ZCOR2	5.49
CALX	10.55	GR	15.70	PZLS2	5.49		
CALY	5.49	PE	10.55	TEN	0.00		
CHT	0.00	PE2	5.49	ZCOR	10.55		

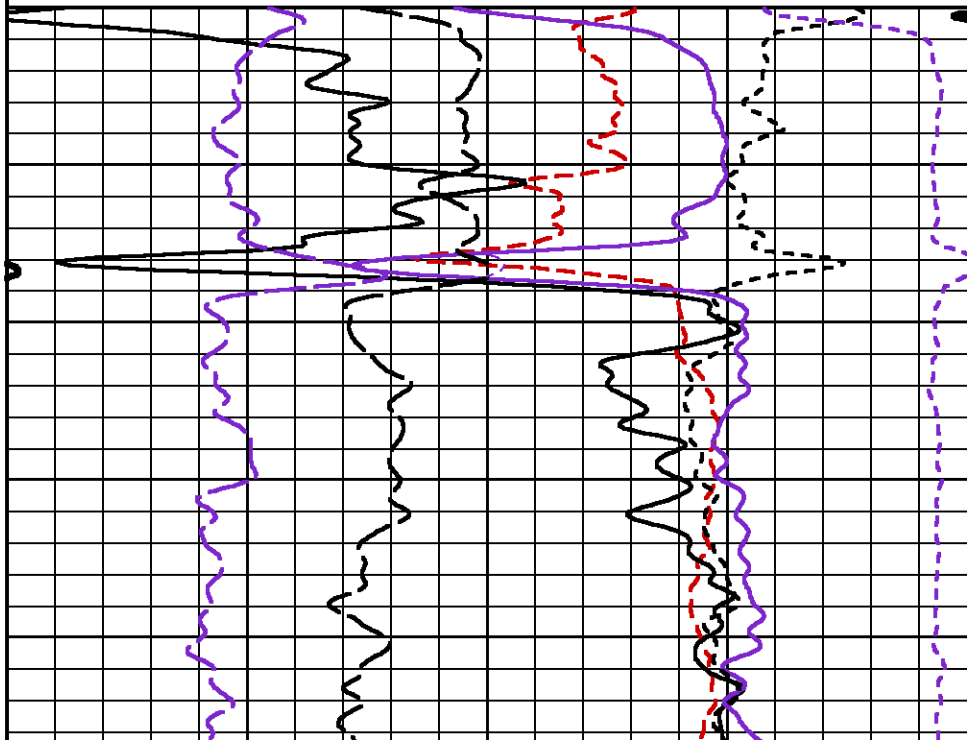
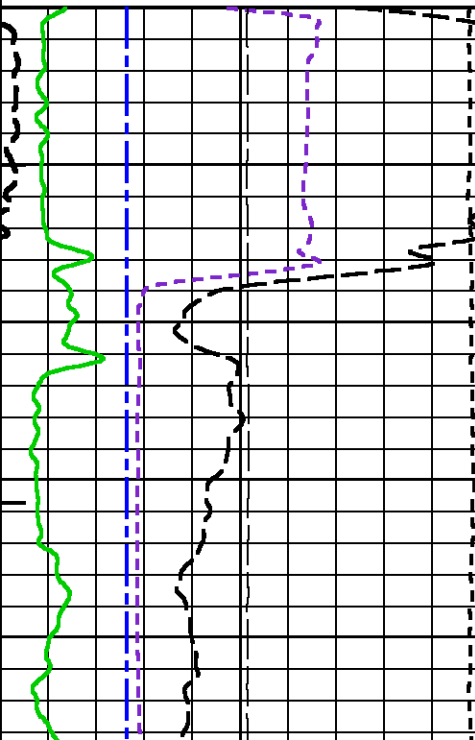
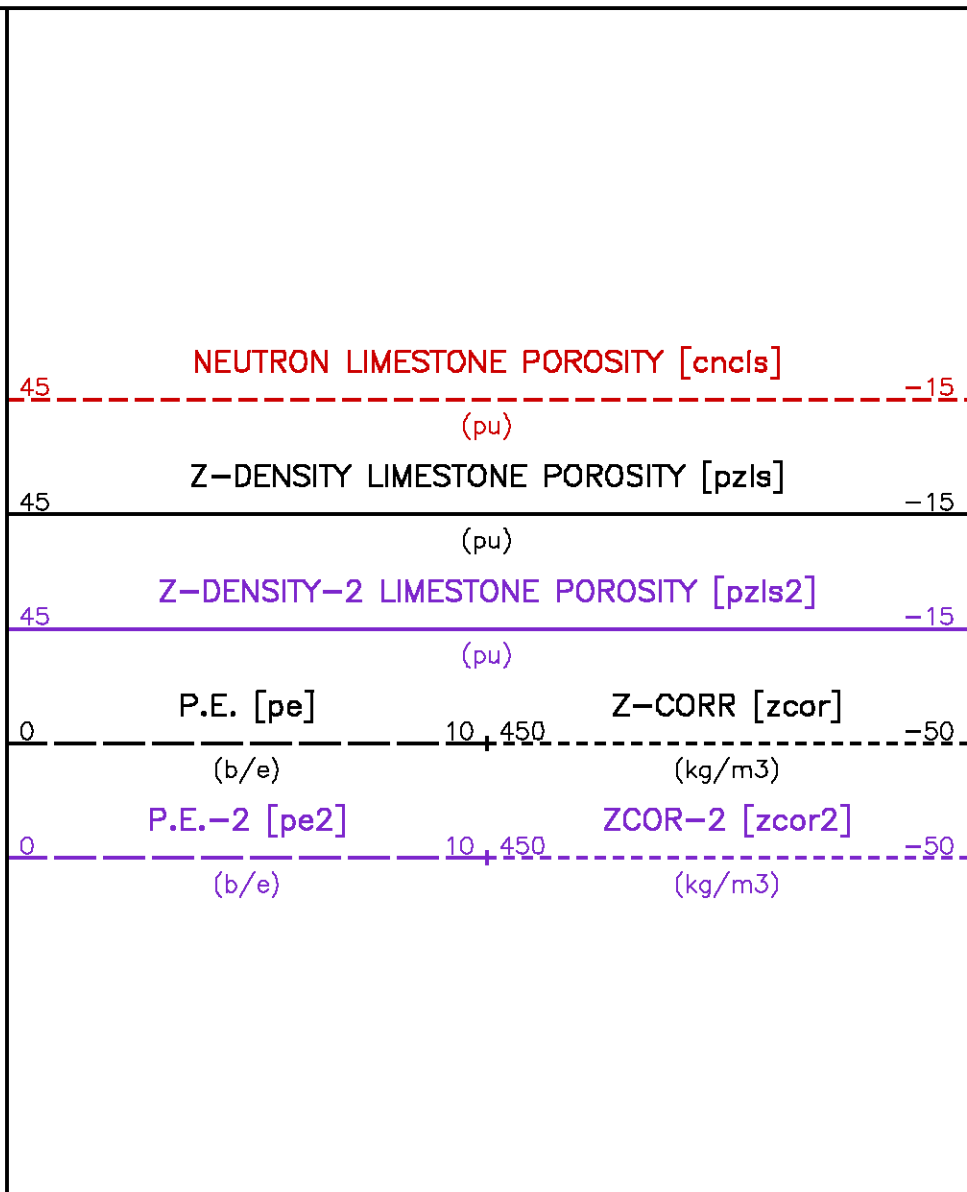
Presentation	: cpu1:/dat1a/pass/nalcor_finn_run2/zdl2_rpt_ls.pdf [1:240 Scale]
Plot Interval	: 2275 - 2402.51 Meters
Data File 1	: F1 : cpu1:/dat1a/pass/nalcor_finn_run2/r2t2_rpt.xtf

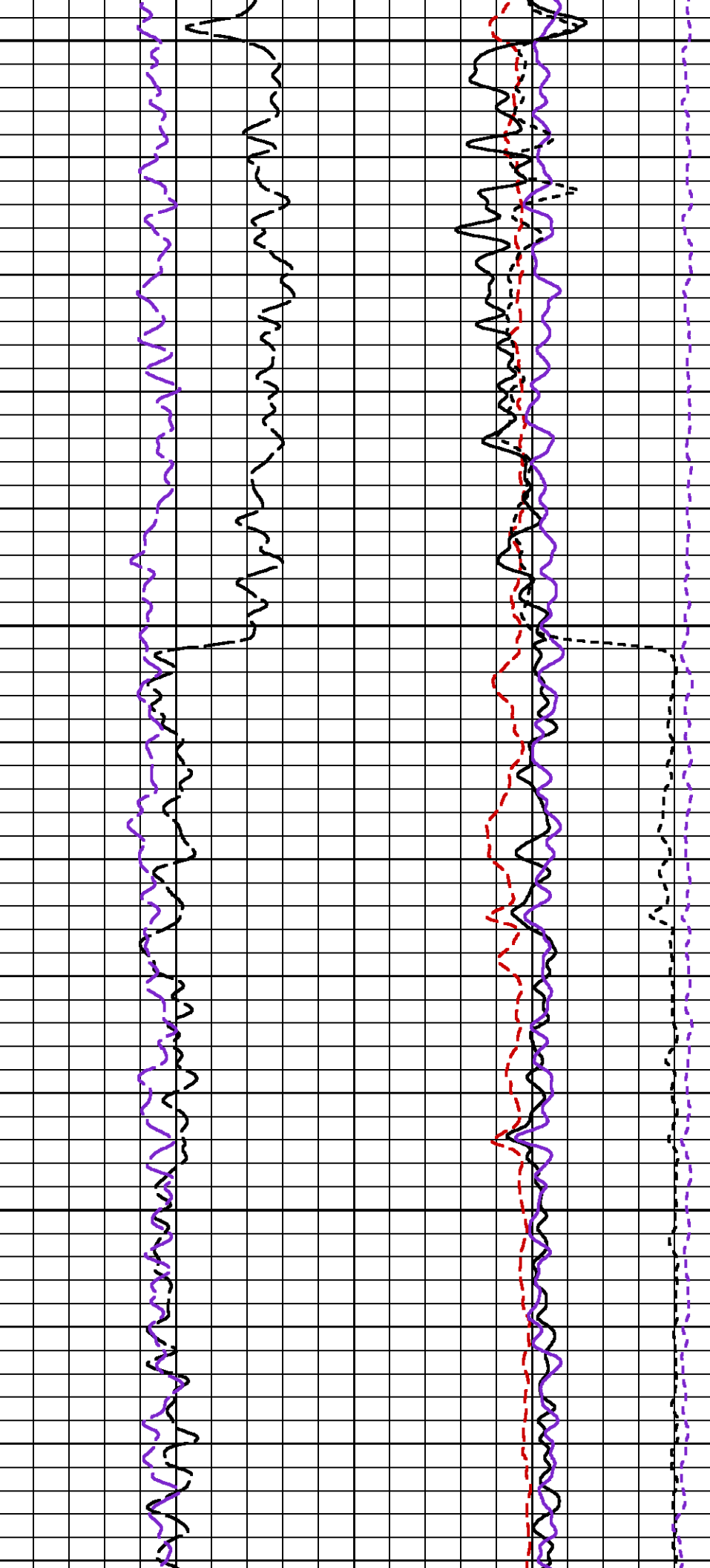
Created On : Nov 27 19:31:37 2010
Company : NALCOR ENERGY
Well : NALCOR ET AL FINNEGAN 1
Field : FINNEGAN
File Interval : 2227.55 - 2405.71 Meters
Oct : m970b



METERS

2275

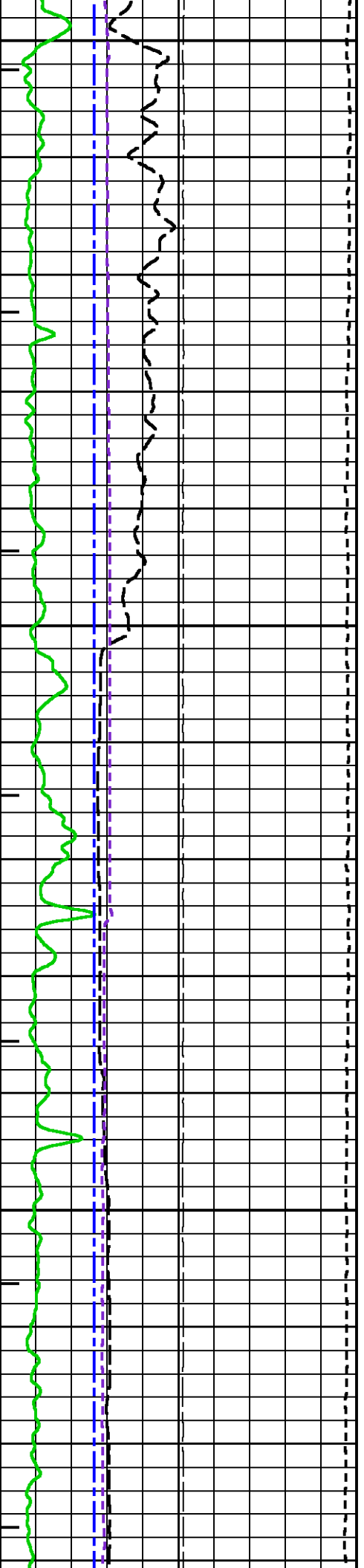


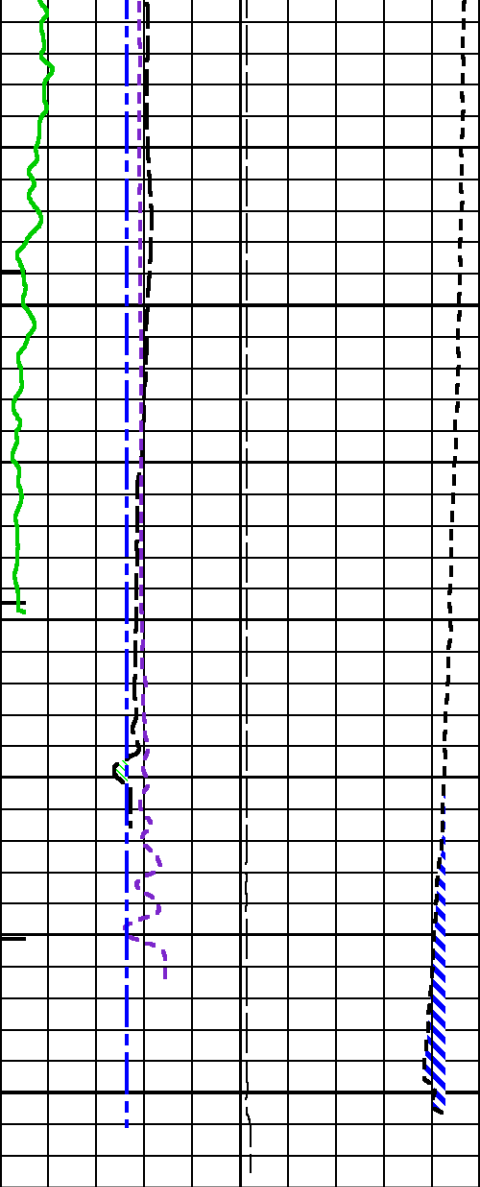


2300

2325

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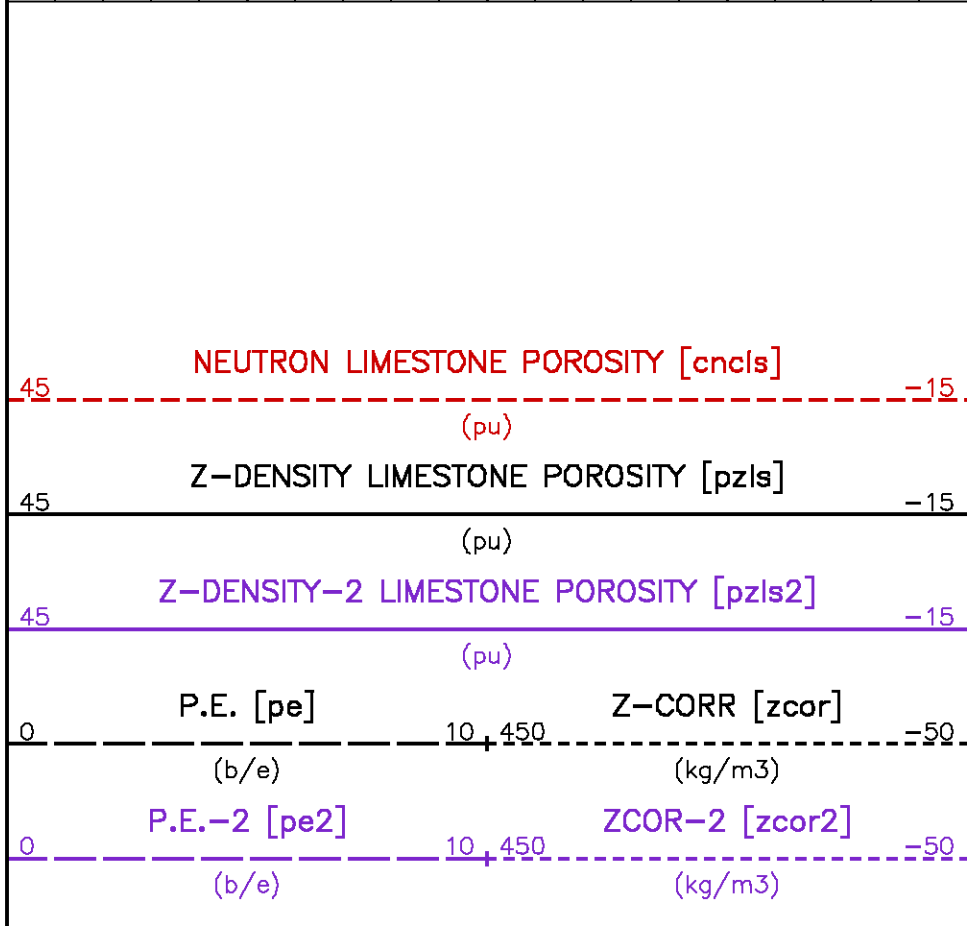
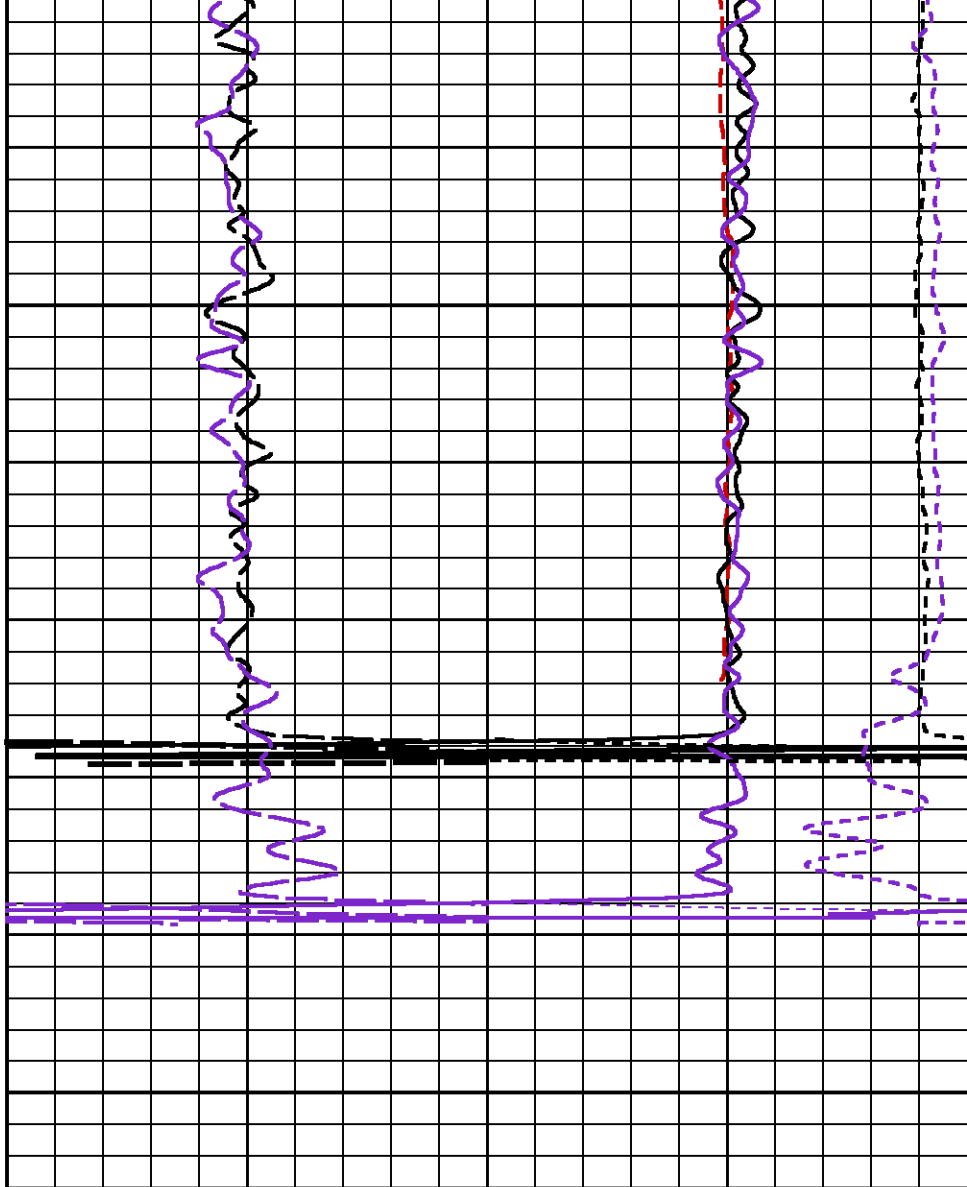
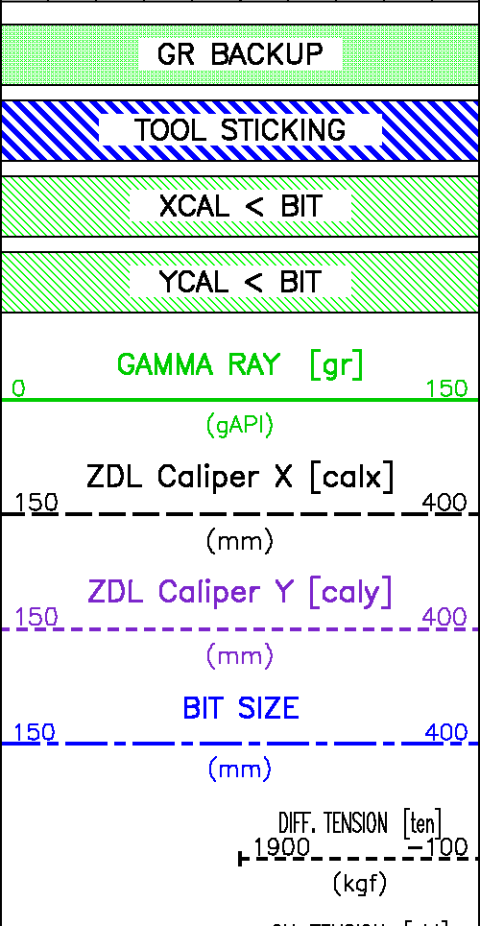




2375

2400

METERS



CH-TENSION [cht]
5500 500
(kgf)

MINUTE MARK
1

CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/pass/nalcor_finn_run2/m970b.tp1

GR PRIMARY CALIBRATION SUMMARY

Tool #: 3518EG 10118926

DATE/TIME PERFORMED: Mon Nov 22 07:18:31 2010

Unit #: 3885TF 004291

Jig Series: 4702NK DA-549

Background	Calibrator ON	Jig Value (gAPI)	Mult	Background (gAPI)	Calibrator ON (gAPI)
347.50	1041.63	185	0.267 0.230 0.280	92.62	277.62

GR PRIMARY VERIFICATION SUMMARY

NOT DONE

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 3518EG 10118926 DATE/TIME PERFORMED: Sat Nov 27 18:46:24 2010 DAYS SINCE CAL: 5

UNIT #: 3885TF 004291

Jig: INTRNL N/A

Counts	TEMP (degC)	HV (V)
976.67 929.00 1027.00	18.59 280.00	1361.74 1237.00 1512.00

GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 3518EG 10118926 DATE/TIME PERFORMED: Sat Nov 27 21:41:45 2010 DAYS SINCE CAL: 5

UNIT #: 3885TF 004291

Jig: INTRNL N/A

Counts	TEMP (degC)	HV (V)
--------	----------------	-----------

		(degC)	(V)
976.67	44.77	1363.96	
929.00 1027.00	280.00	1237.00 1512.00	

CN PRIMARY CALIBRATION SUMMARY

TOOL #: 2436XA 10354054

DATE/TIME PERFORMED: Sun Jun 20 10:43:49 2010

UNIT #: 3885TF 004291

CALIBRATOR #: 2437XB 112675

SOURCE #: 4718XA N-1030

SSN DT CPS	LSN DT CPS	SSN/LSN	MCF	CNRATIO	CN PU
4669.71	806.47	5.79032	0.99079 0.95000 1.05000	5.73700	25.241

CN BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2436XA 10354054

DATE/TIME PERFORMED: Sat Nov 27 18:46:36 2010

DAYS SINCE CAL: 160

UNIT #: 3885TF 004291

CALIBRATOR #: INTRNL N/A

SSN DT CPS	LSN DT CPS	SSN/LSN	TEMP (degC)	HV (V)	LV (V)
991.74	993.76	0.99797 0.95000 1.05000	18.2 138.0	1357.1 1250.0 1450.0	4.648 4.300 5.000

CN AFTER LOG VERIFICATION SUMMARY

TOOL #: 2436XA 10354054

DATE/TIME PERFORMED: Sat Nov 27 21:41:29 2010

DAYS SINCE CAL: 160

UNIT #: 3885TF 004291

CALIBRATOR #: INTRNL N/A

SSN DT CPS	LSN DT CPS	SSN/LSN	TEMP (degC)	HV (V)	LV (V)
992.41	994.44	0.99797 0.95000 1.05000	44.6 138.0	1358.6 1250.0 1450.0	4.654 4.300 5.000

CAL PRIMARY CALIBRATION SUMMARY

TOOL #: 2223XA 10130454

DATE/TIME PERFORMED: Thu Nov 18 14:44:08 2010

UNIT #: 3885TF 004291

	SIZE (mm)	VALUE	MULTIPLIER	ADD
SMALL RING (Arm)	158.000	1112.0		

LARGE RING (Arm) 307.600 2956.0 0.08113 67.78568

PAD CLOSED

2704.0

0.06350

-171.70399

CAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10130454 DATE/TIME PERFORMED: Sat Nov 27 19:50:05 2010 DAYS SINCE CAL: 9

UNIT #: 3885TF 004291

	VALUE	MULTIPLIER	ADD	SIZE (mm)
ARM	1936.0	0.08113	67.78568	224.8
PAD	2780.0	0.06350	-171.70399	4.8

	ACTUAL (mm)	MEASURED (mm)
DIAMETER (arm+pad)	222.400	229.7
		212.2 232.6

CAL AFTER LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10130454 DATE/TIME PERFORMED: Sat Nov 27 21:36:33 2010 DAYS SINCE CAL: 9

UNIT #: 3885TF 004291

	VALUE	MULTIPLIER	ADD	SIZE (mm)
ARM	1931.2	0.08113	67.78568	224.5
PAD	2779.6	0.06350	-171.70399	4.8

	ACTUAL (mm)	MEASURED (mm)
DIAMETER (arm+pad)	222.400	229.3
		212.2 232.6

ZDL PRIMARY CALIBRATION SUMMARY

TOOL: 2223XA 10130454

DATE/TIME PERFORMED: Thu Nov 18 15:50:23 2010

UNIT: 3885TF 004291

CALB BLKS: 2225XA 112691

CS SRC: 4705XA 11347B

PAD TYPE: PADTYP 7.5" PAD

SS CS PK (Channel)	LS CS PK (Channel)	SS_BKGD (cps)	LS BKGD (cps)
224.4	224.0	1228.3	1686.4

220.0 230.0 220.0 230.0

	SS (cps)	LS (cps)	SHR	DEN (kg/m ³)	CORR (kg/m ³)	PE (b/e)
MG (LO PE)	36054.2	12272.6	0.816 0.720 0.890	1700.000	2.000	1.860
AL	22538.7	1369.1		2649.000	-19.000	
AL + SHIM	29898.2	2360.5		2550.000	101.000	
MG + SHIM (HI PE)	18164.0	6016.1	0.329 0.280 0.360			8.260
RATIO AL + SHIM/AL	1.33 1.30 1.40	1.72 1.60 1.80				
RATIO MG/AL	1.60 1.58 1.70	8.96 8.55 9.55				

ZDL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10130454 DATE/TIME PERFORMED: Sat Nov 27 18:46:54 2010 DAYS SINCE CAL: 9

UNIT #: 3885TF 004291

	TOTAL (cps)	CSPK (Channel)	HV (V)
LS	3342.1 3332.1 3352.1	224.8 220.0 230.0	1429.2 1250.0 1550.0
SS	22355.0 22344.8 22364.8	224.1 220.0 230.0	1393.2 1250.0 1550.0
	LV (V)	PAD CURRENT (mA)	
	5.0 4.8 5.2	85.3 50.0 120.0	

ZDL AFTER LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10130454 DATE/TIME PERFORMED: Sat Nov 27 21:40:45 2010 DAYS SINCE CAL: 9

UNIT #: 3885TF 004291

	TOTAL (cps)	CSPK (Channel)	HV (V)
LS	3342.1 3332.1 3352.1	224.9 220.0 230.0	1425.7 1250.0 1550.0
SS	22354.8 22344.8 22364.8	224.2 220.0 230.0	1392.7 1250.0 1550.0
	LV (V)	PAD CURRENT (mA)	
	5.0 4.8 5.2	92.8 50.0 120.0	

CAL[2] PRIMARY CALIBRATION SUMMARY

TOOL #: 2223XA 402526

DATE/TIME PERFORMED: Thu Nov 18 16:27:09 2010

UNIT #: 3885TF 004291

	SIZE (mm)	VALUE	MULTIPLIER	ADD
SMALL RING (Arm)	158.000	1124.0		
LARGE RING (Arm)	307.600	2920.0	0.08330	64.37505
PAD CLOSED		1986.4	0.06350	-126.13640

CAL[2] BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2223XA 402526

DATE/TIME PERFORMED: Sat Nov 27 19:48:59 2010

DAYS SINCE CAL: 9

UNIT #: 3885TF 004291

	VALUE	MULTIPLIER	ADD	SIZE (mm)
ARM	1896.0	0.08330	64.37505	222.3
PAD	2044.0	0.06350	-126.13640	3.7

	ACTUAL (mm)	MEASURED (mm)
DIAMETER (arm+pad)	222.400	226.0
		212.2 232.6

CAL[2] AFTER LOG VERIFICATION SUMMARY

TOOL #: 2223XA 402526

DATE/TIME PERFORMED: Sat Nov 27 21:36:27 2010

DAYS SINCE CAL: 9

UNIT #: 3885TF 004291

	VALUE	MULTIPLIER	ADD	SIZE (mm)
ARM	1919.6	0.08330	64.37505	224.3
PAD	1886.8	0.06350	-126.13640	-6.3

	ACTUAL (mm)	MEASURED (mm)
DIAMETER (arm+pad)	222.400	217.9
		212.2 232.6

ZDL[2] PRIMARY CALIBRATION SUMMARY

TOOL: 2223XA 402526

DATE/TIME PERFORMED: Thu Nov 18 17:07:16 2010

UNIT: 3885TF 004291

CALB BLKS: 2225XA 112691

CS SRC: 4705XA 16081B

PAD TYPE: PADTYP 7.5" PAD

	SS CS PK (Channel)	LS CS PK (Channel)	SS_BKGD (cps)	LS BKGD (cps)		
	224.6 220.0 230.0	224.2 220.0 230.0	1110.5	1425.6		
	SS (cps)	LS (cps)	SHR	DEN (kg/m3)	CORR (kg/m3)	PE (b/e)
MG (LO PE)	37358.3	13583.2	0.752 0.720 0.890	1700.000	2.000	1.860
AL	23459.8	1516.8		2649.000	-19.000	
AL + SHIM	31160.7	2633.4		2550.000	101.000	
MG + SHIM (HI PE)	18785.8	6613.9	0.296 0.280 0.360			8.260
RATIO AL + SHIM/AL	1.33 1.30 1.40	1.74 1.60 1.80				
RATIO MG/AL	1.59 1.58 1.70	8.96 8.55 9.55				

ZDL[2] BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2223XA 402526

DATE/TIME PERFORMED: Sat Nov 27 18:47:10 2010

DAYS SINCE CAL: 9

UNIT #: 3885TF 004291

	TOTAL (cps)	CSPK (Channel)	HV (V)
LS	3341.9 3332.1 3352.1	224.8 220.0 230.0	1479.5 1250.0 1550.0
SS	22353.1 22344.8 22364.8	224.1 220.0 230.0	1468.5 1250.0 1550.0
	LV (V)	PAD CURRENT (mA)	
	5.0 4.8 5.2	91.2 50.0 120.0	

ZDL[2] AFTER LOG VERIFICATION SUMMARY

TOOL #: 2223XA 402526



DATE/TIME PERFORMED: Sat Nov 27 21:41:02 2010

DAYS SINCE CAL: 9

UNIT #: 3885TF 004291

	TOTAL (cps)	CSPK (Channel)	HV (V)
LS	3341.3	224.8	1475.5
	3332.1 3352.1	220.0 230.0	1250.0 1550.0
SS	22349.3	224.1	1477.5
	22344.8 22364.8	220.0 230.0	1250.0 1550.0

LV (V)	PAD CURRENT (mA)
5.0	99.2
4.8 5.2	50.0 120.0

 Baker Atlas 	COMPANY <u>NALCOR ENERGY</u> WELL <u>NALCOR ET AL FINNEGAN #1</u> FIELD <u>FINNEGAN</u> PROVINCE <u>NEWFOUNDLAND AND LABRADOR</u>	FILE NO: _____ API NO: _____
	LOCATION: _____ LAT <u>49.92 N</u> LONG <u>63.33 W</u>	ELEVATIONS: KB <u>125.00 M</u> DF _____ GL <u>118.75 M</u> DATE <u>27-NOV-2010</u>