



DUAL INDUCTION LOG

Company Castle Resources, Inc.

Well Wessler #4

Field Stoltzenberg

County Ellsworth State KS

Location: API #: 15 053 21341

1840' FSL & 335' FEL

SEC 19 TWP 17S RGE 9W

Permanent Datum Ground Level Elevation 1771'

Log Measured From KB 5' AGL

Drilling Measured From KB

CDNL
ML

Elevation

K.B. 1776'
D.F. 1775'
G.L. 1771'

Date 12-22-15

Run Number One

Depth Driller 3300'

Depth Logger 3300'

Bottom Logged Interval 3298'

Top Log Interval 200'

Casing Driller 8 5/8" @ 261'

Casing Logger 261'

Bit Size 7 7/8"

Type Fluid in Hole Chemical

Density / Viscosity 9.2/49

pH / Fluid Loss 9.8/9.6

Source of Sample Pit

Rm @ Meas. Temp .9@60degf

Rmf @ Meas. Temp .68@60degf

Rmc @ Meas. Temp 1.08@60degf

Source of Rmf / Rmc Calculated

Rm @ BHT .47@114degf

Time Circulation Stopped 3:45 p.m.

Time Logger on Bottom 5:30 p.m.

Maximum Recorded Temperature 114degf

Equipment Number T127

Location Hays, KS

Recorded By Gus Pfannenstiel

Witnessed By Mr. Jerry Green

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

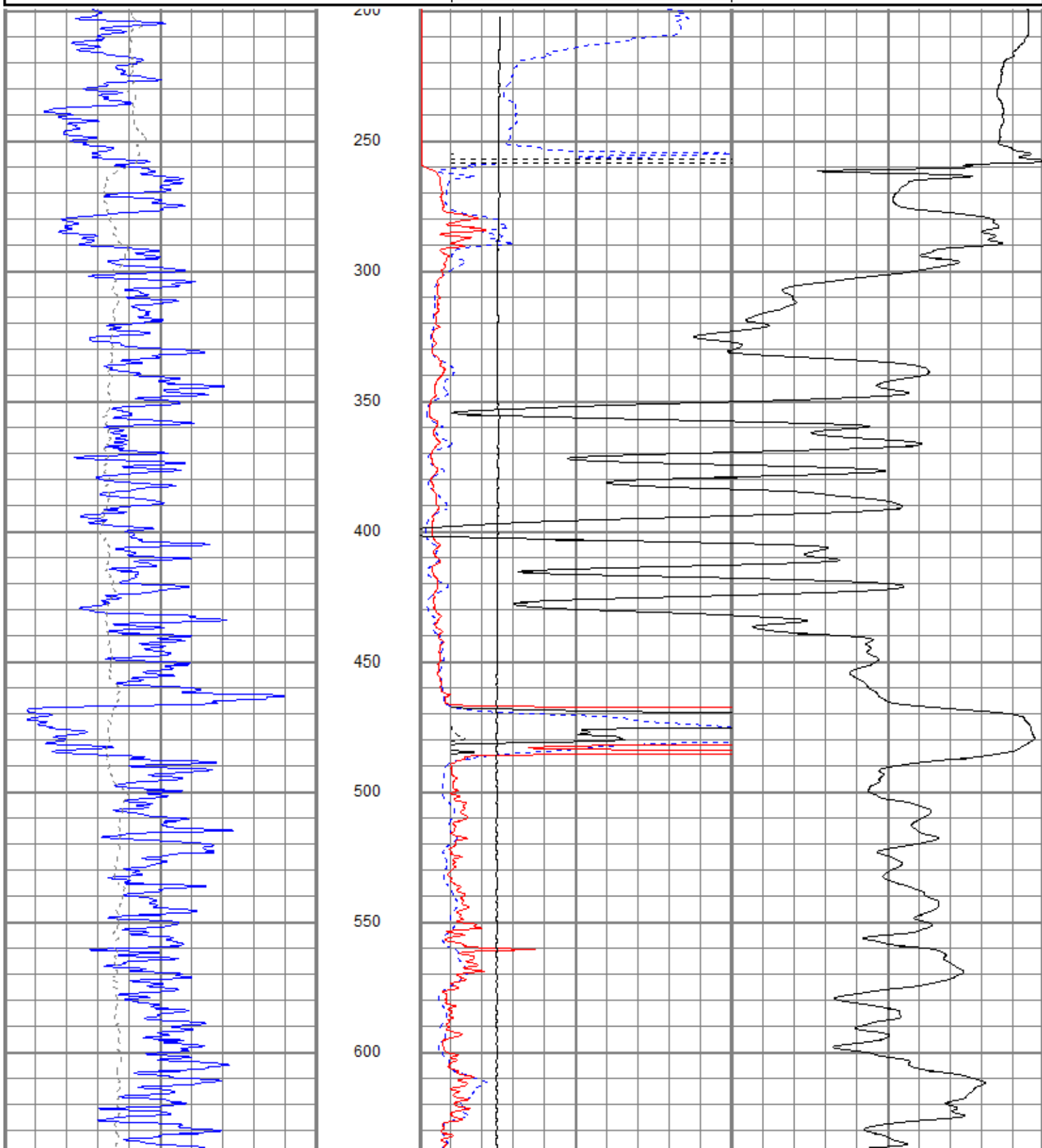


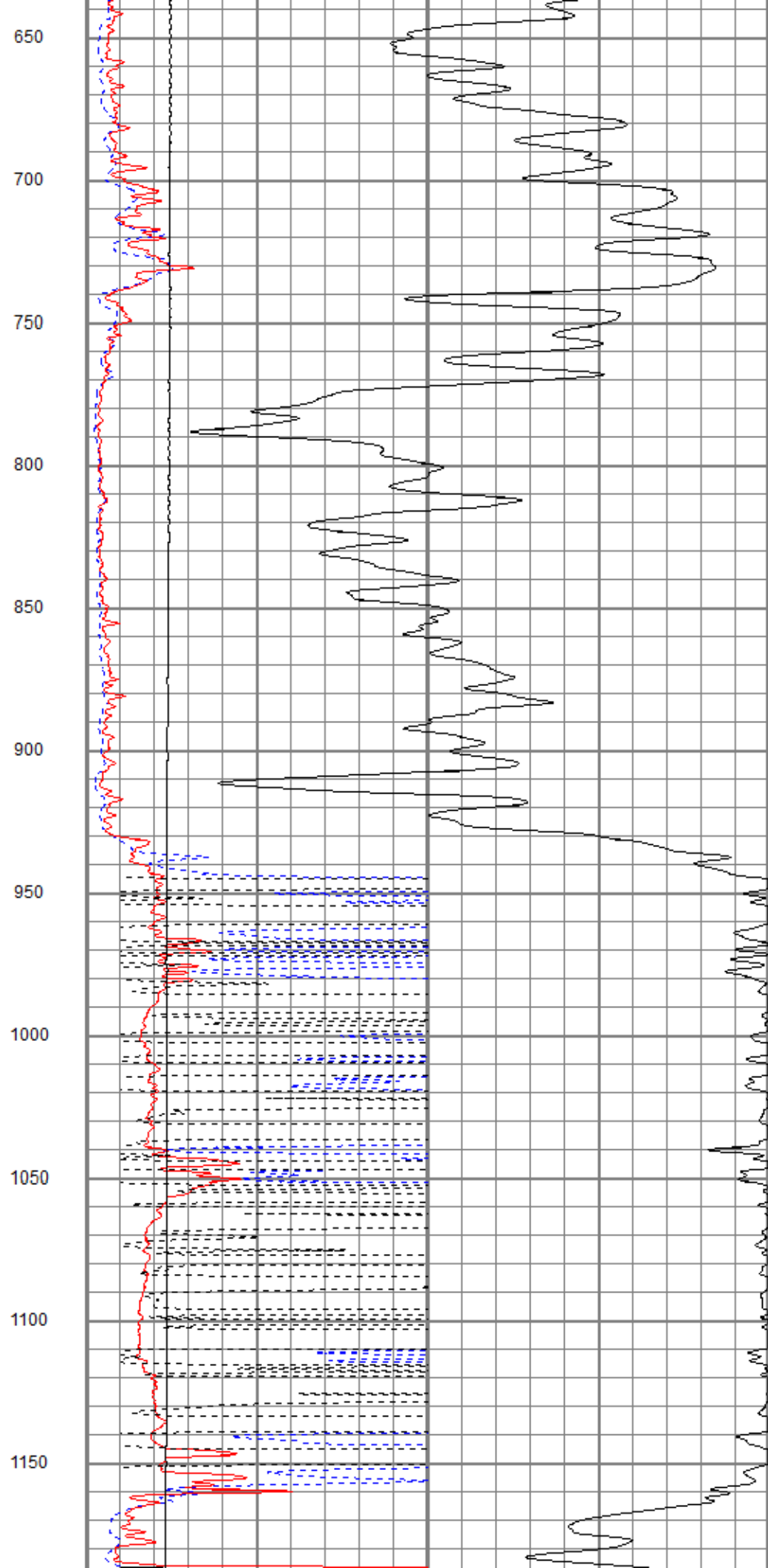
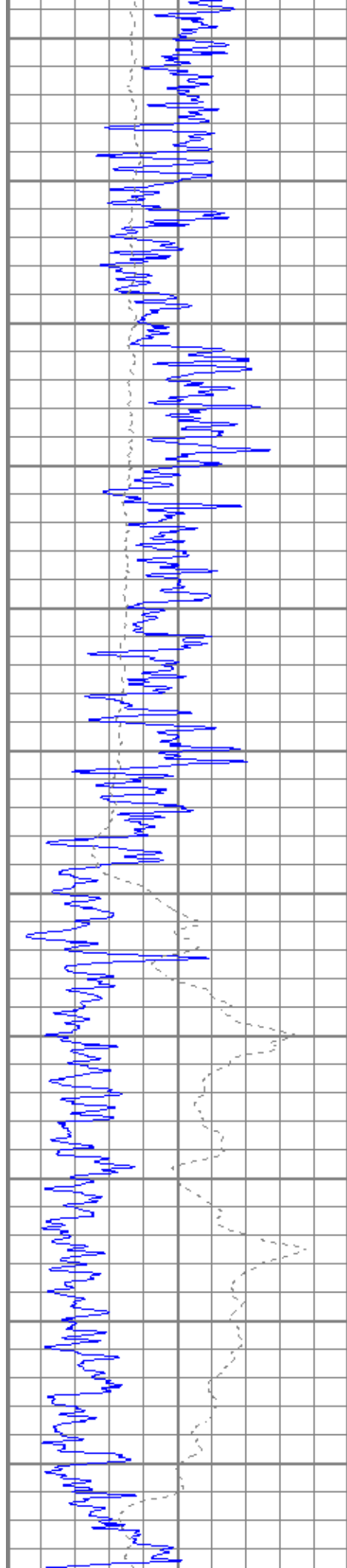
Main Pass

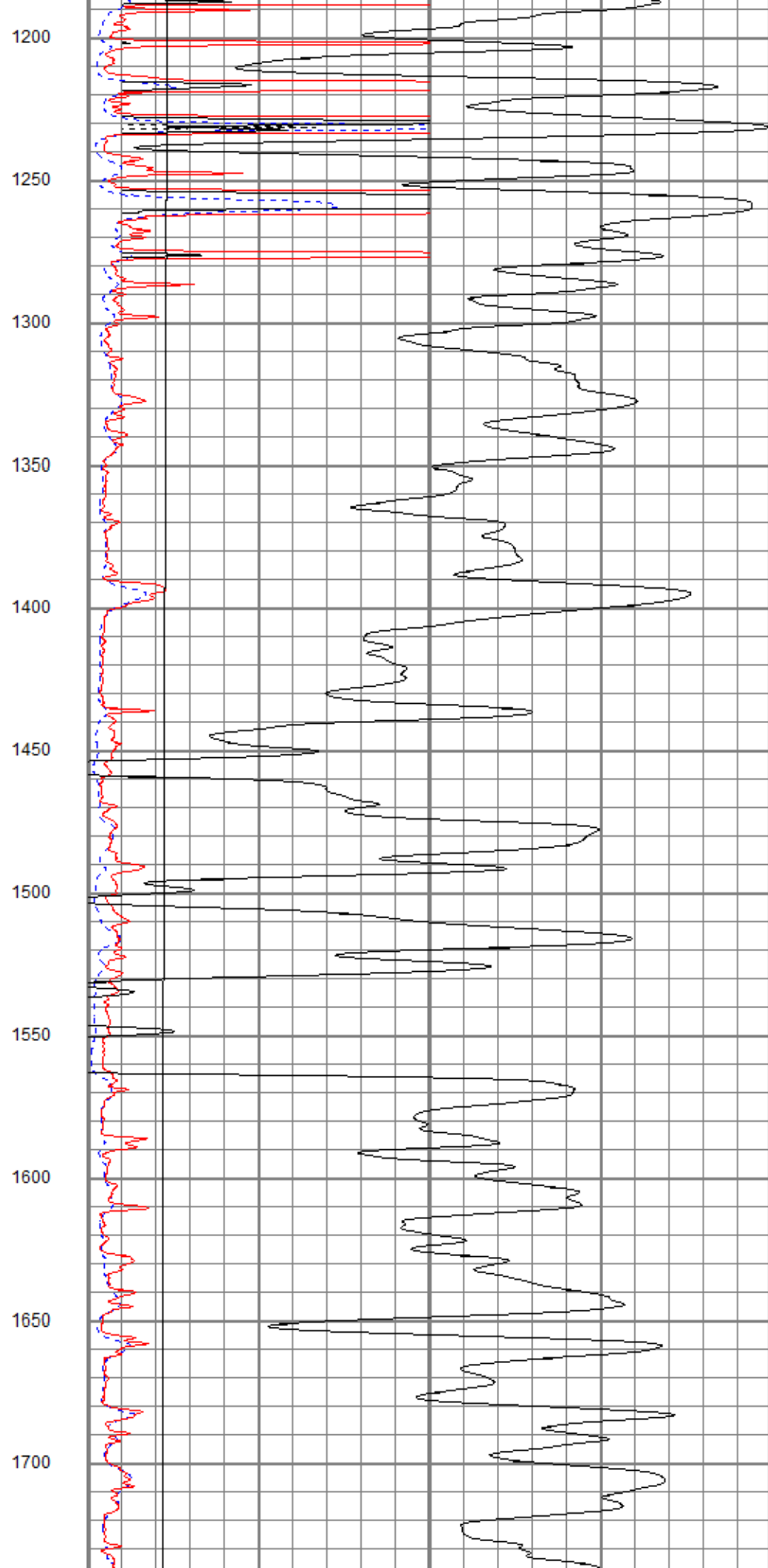
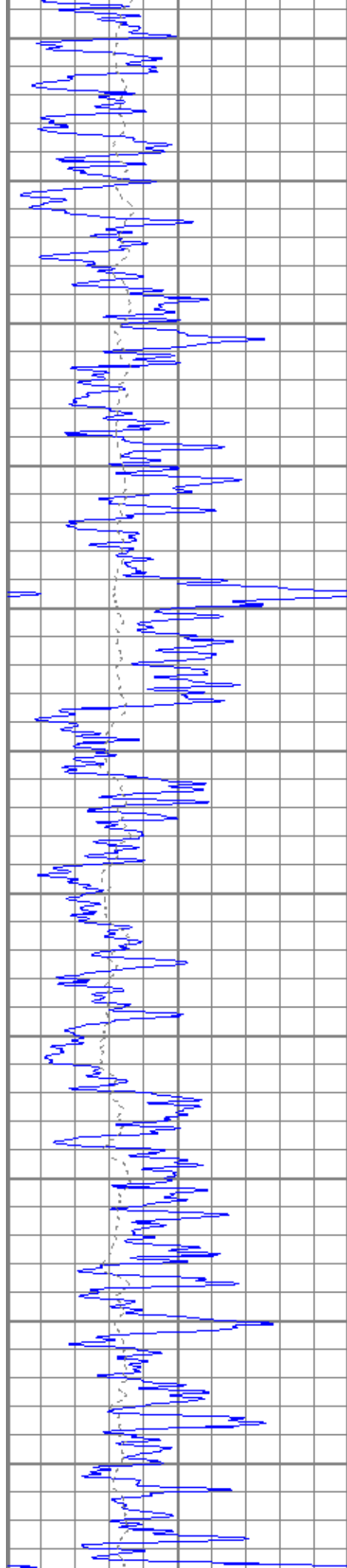
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Dataset Pathname pass4.1
Presentation Format kdillin2
Dataset Creation Tue Dec 22 19:16:54 2015
Charted by Depth in Feet scaled 1:600

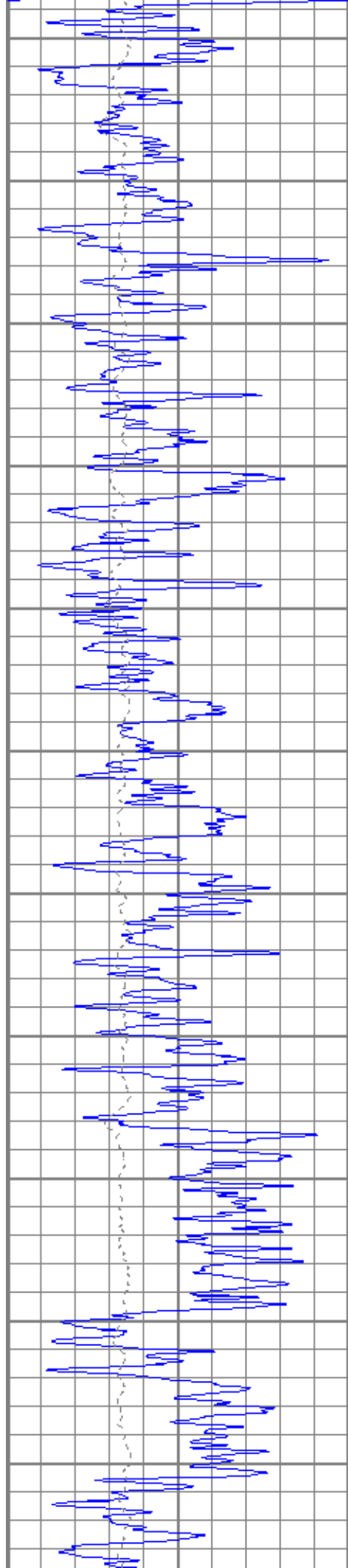
0	GR (GAPI)	150
-200	SP (mV)	0

1000	CILD (mmho/m)	0
10000	LTEN (lb)	0
0	RILD (Ohm-m)	50
0	RLL3 (Ohm-m)	50
50	RILD x 10 (Ohm-m)	500
50	RLL3 x 10 (Ohm-m)	500









1750

1800

1850

1900

1950

2000

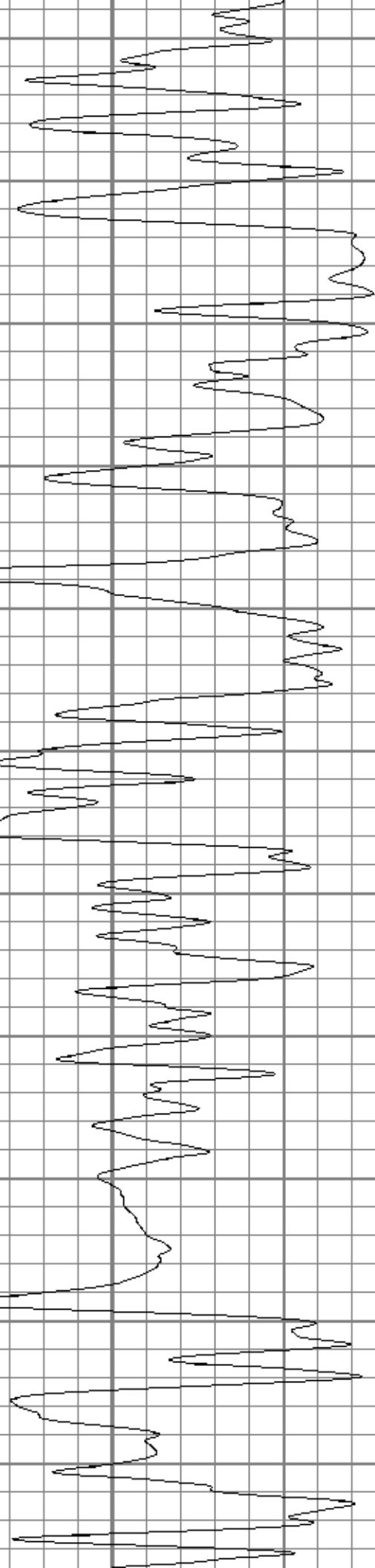
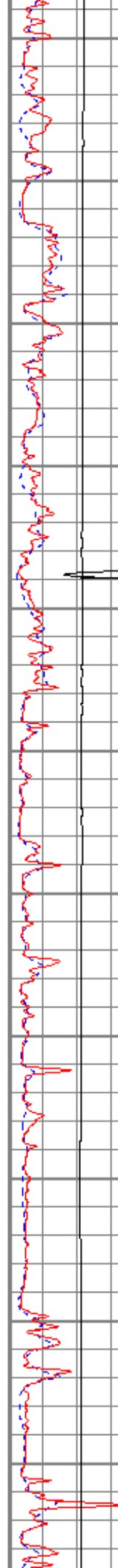
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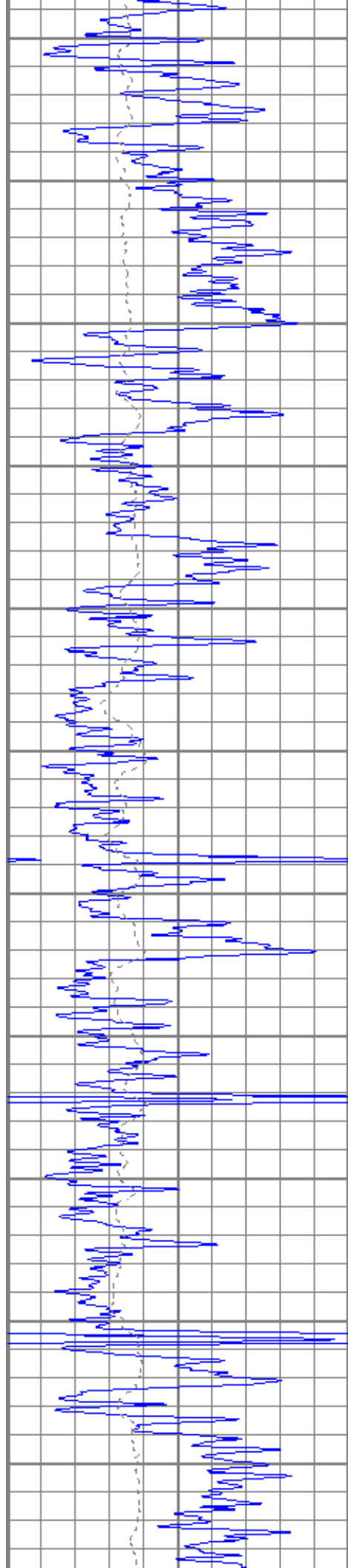
2100

2150

2200

2250





2300

2350

2400

2450

2500

2550

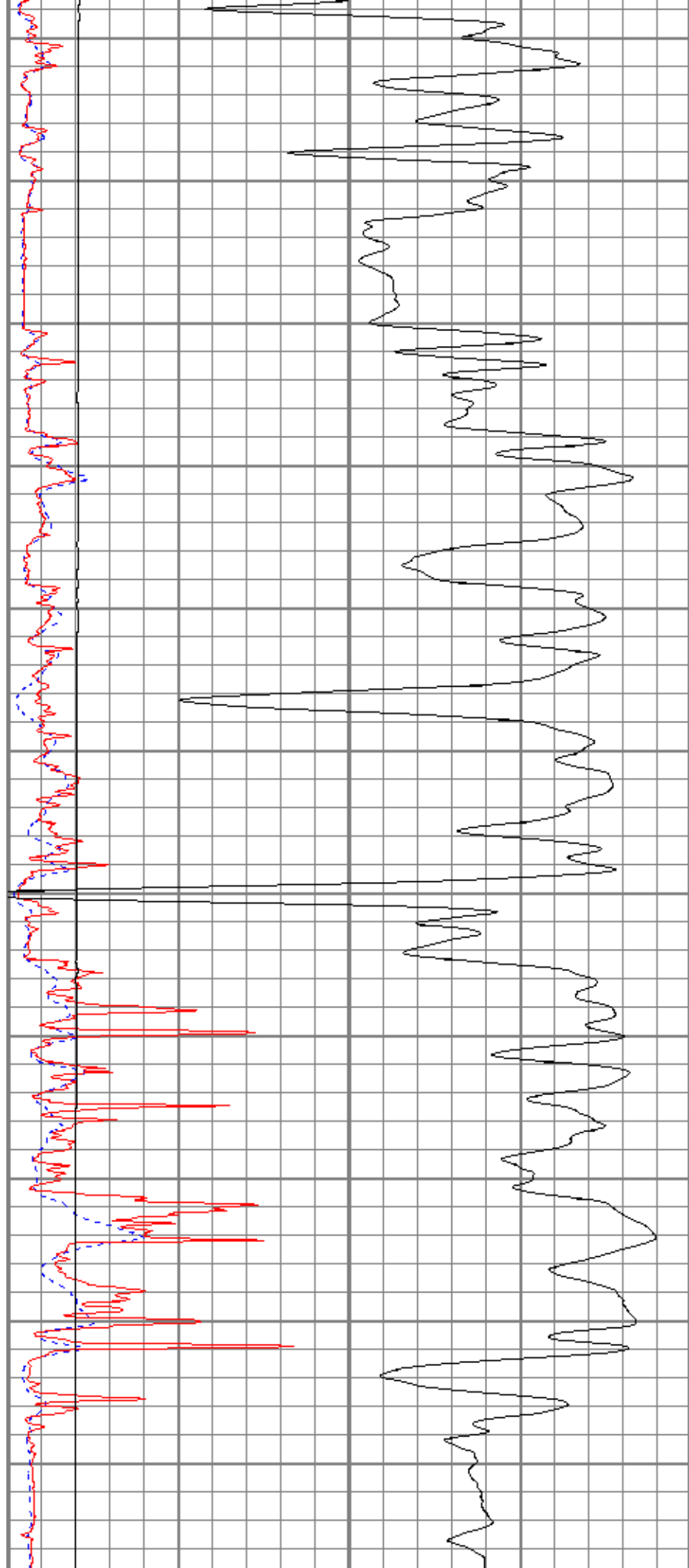
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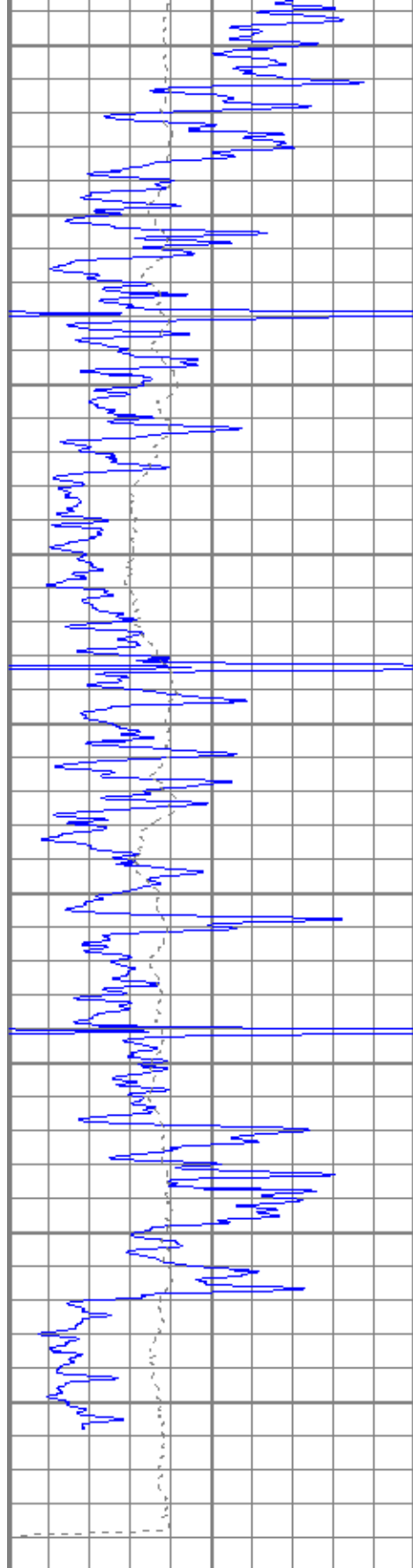
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2700

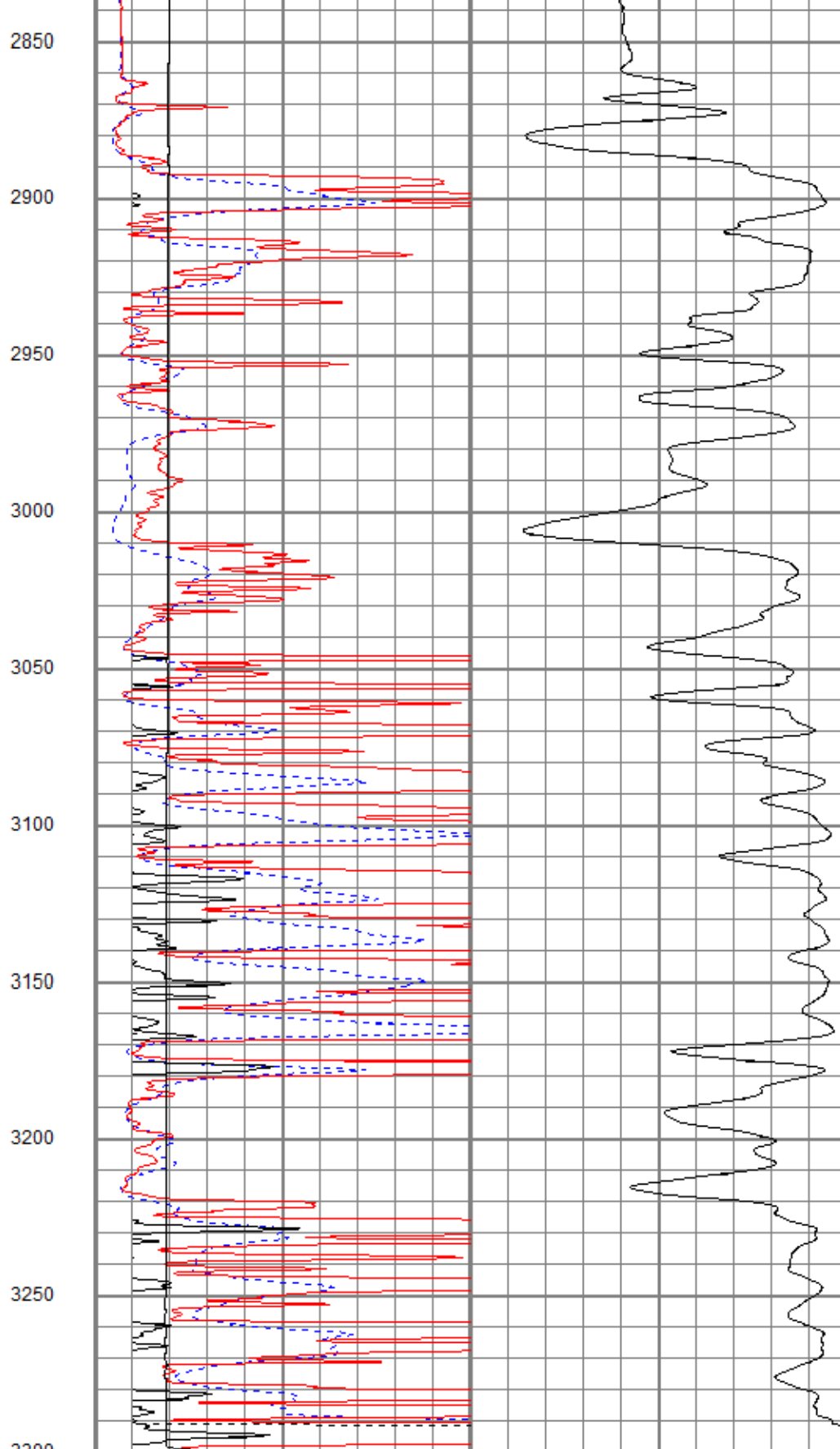
2750

2800





0 GR (GAPI) 150
-200 SP (mV) 0



1000 CILD (mmho/m) 10000
10000 LTEN (lb) 10000

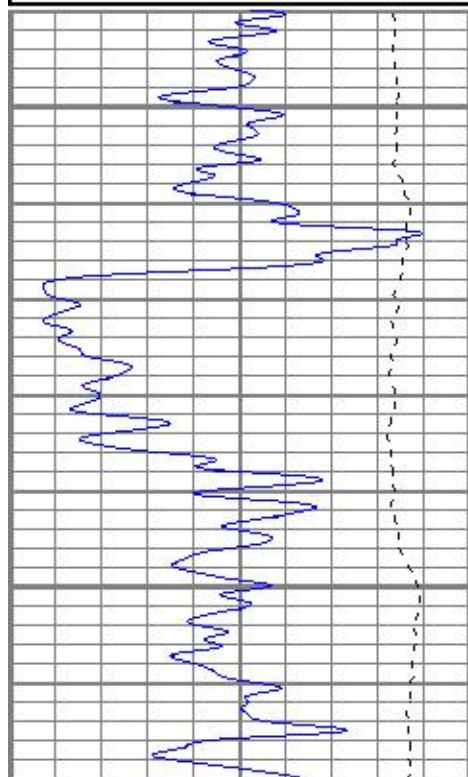
0	RILD (Ohm-m)	50
0	RLL3 (Ohm-m)	50
50	RILD x 10 (Ohm-m)	500
50	RLL3 x 10 (Ohm-m)	500



Main Pass

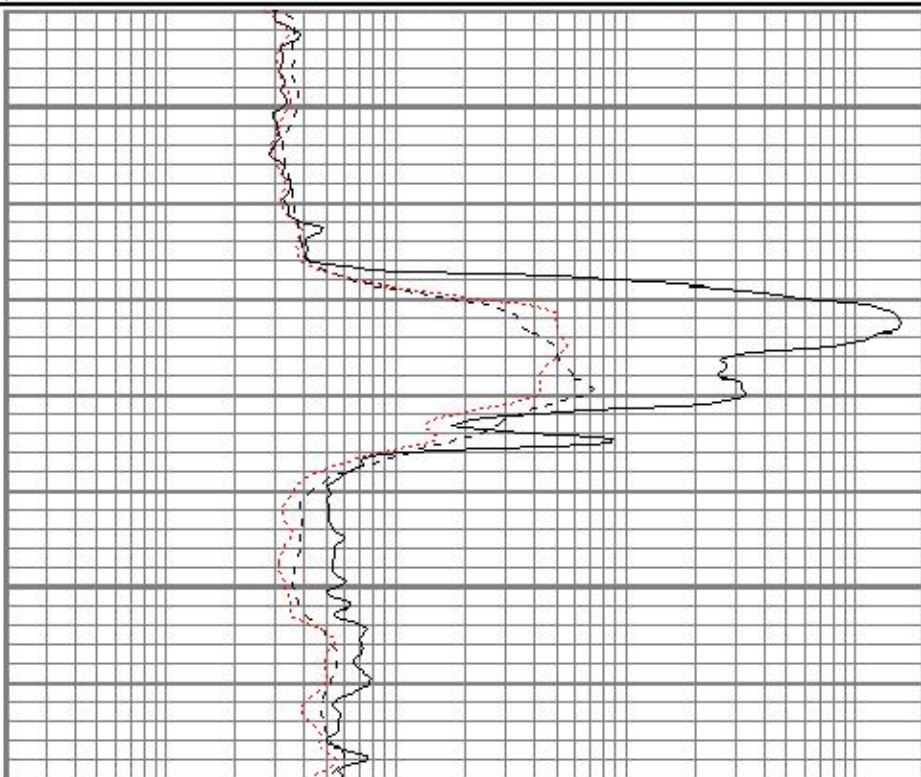
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Dataset Pathname pass4.1
Presentation Format kdil
Dataset Creation Tue Dec 22 19:16:54 2015
Charted by Depth in Feet scaled 1:240

0	GR (GAPI)	150
-100	SP (mV)	100



0	GR (GAPI)	150
-100	SP (mV)	100

0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000



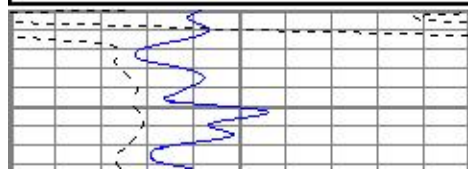
0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000



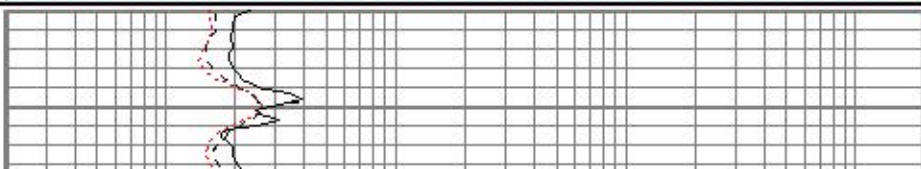
Main Pass

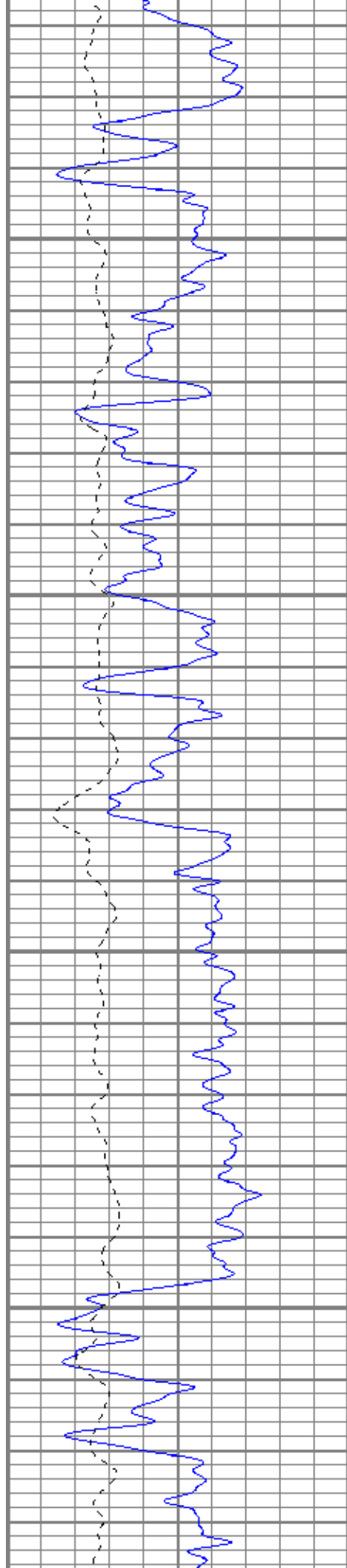
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Dataset Pathname pass2.1
Presentation Format kdil
Dataset Creation Tue Dec 22 18:28:25 2015
Charted by Depth in Feet scaled 1:240

0	GR (GAPI)	150
-100	SP (mV)	100



0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000



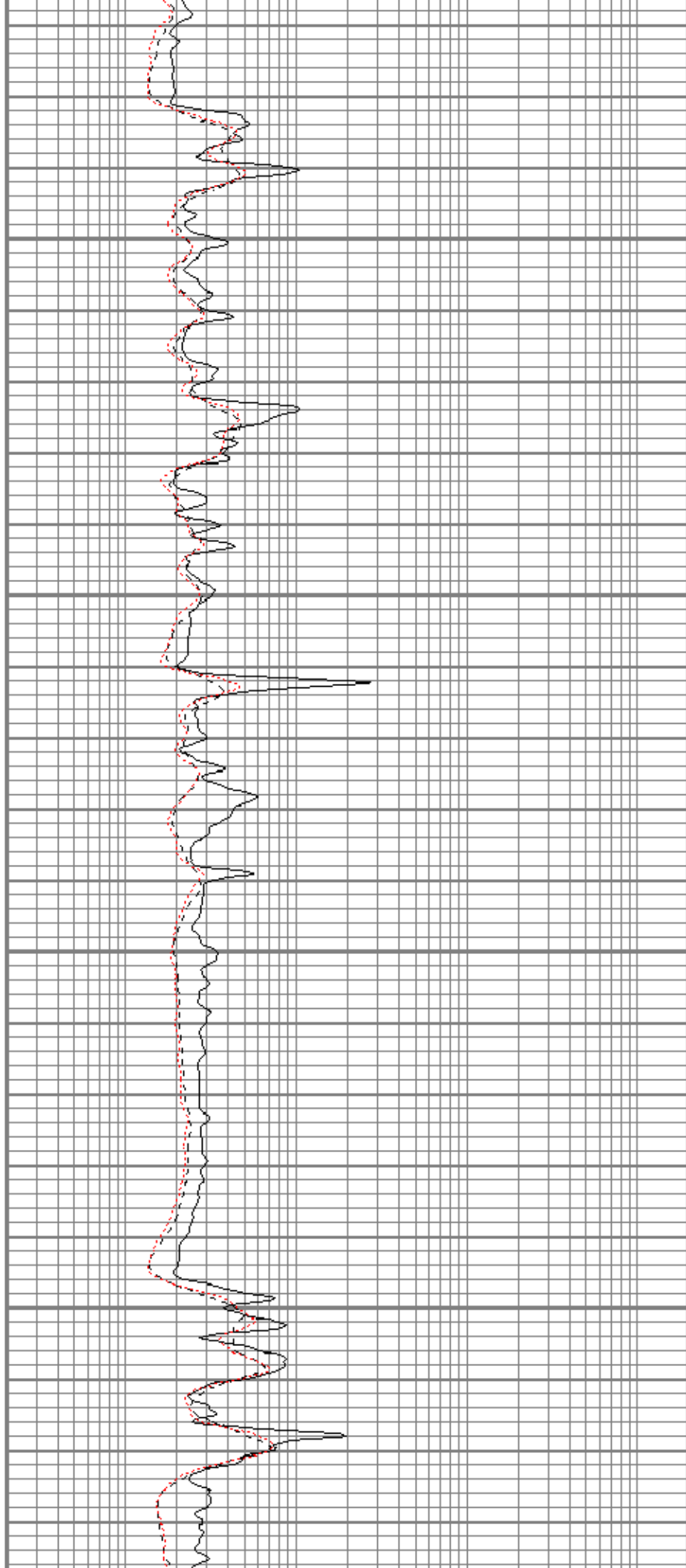


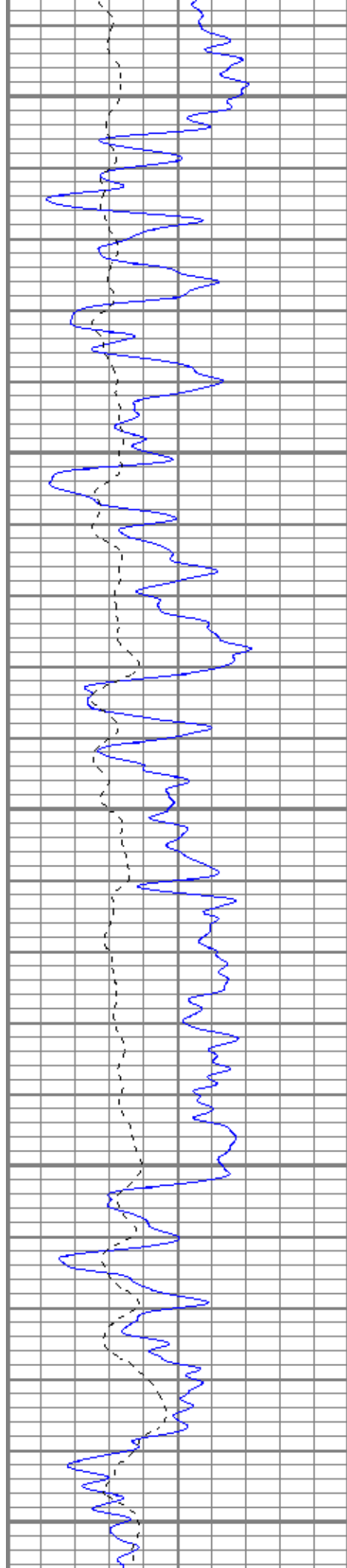
2050

2100

2150

2200





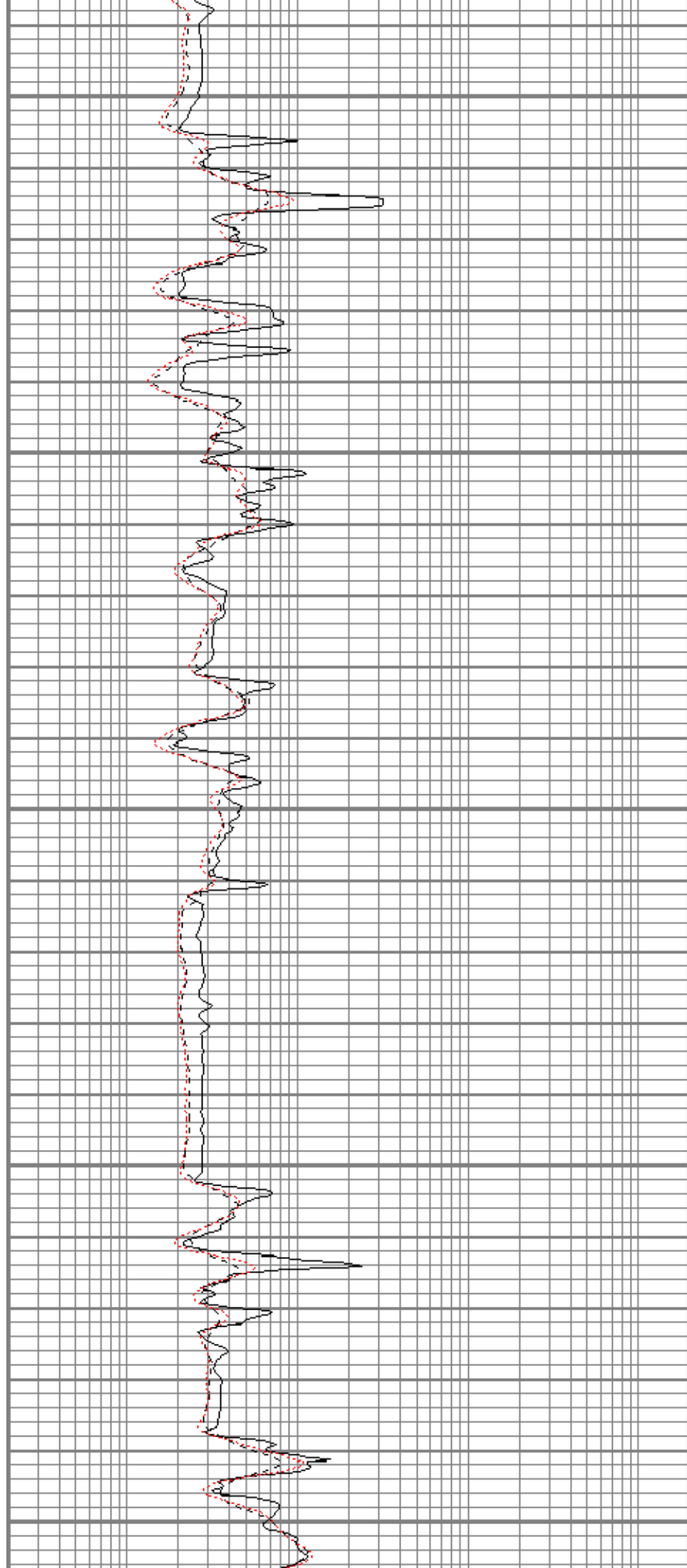
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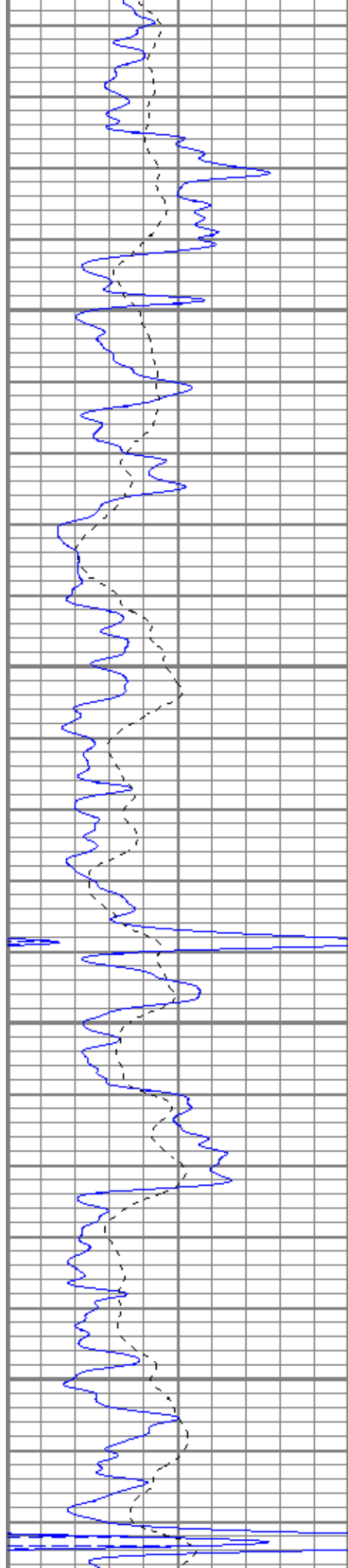
2300

2350

2400

2450



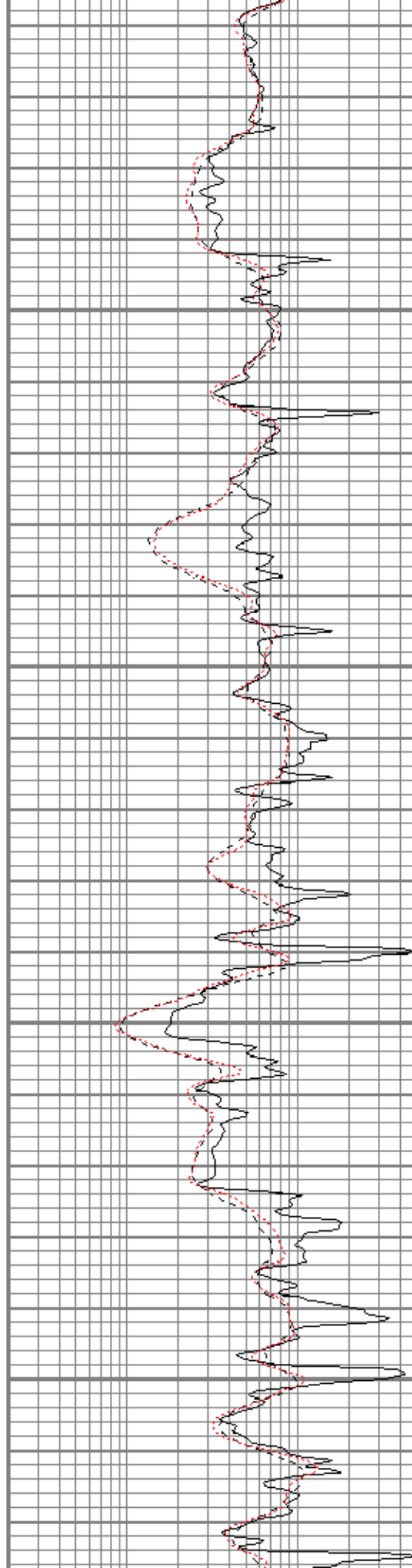


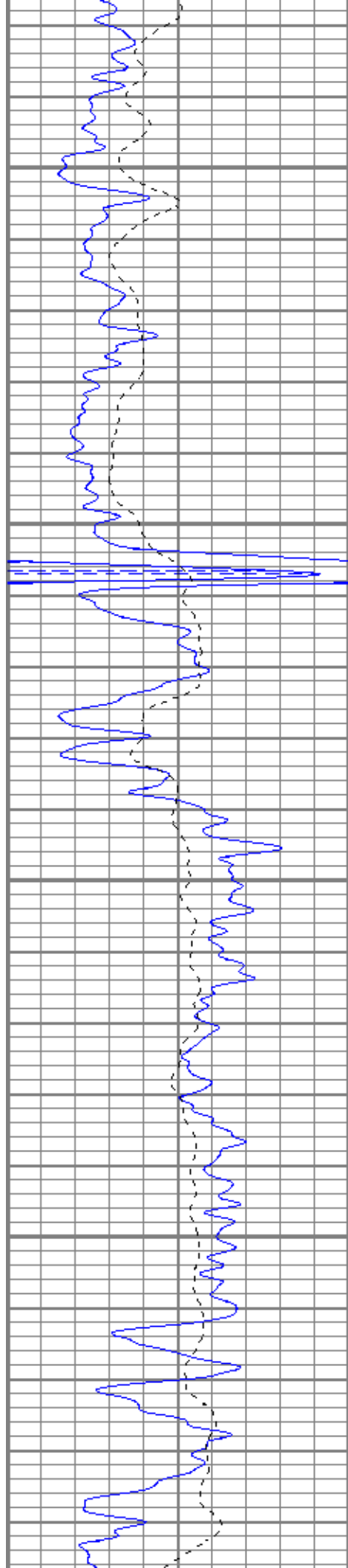
2500

2550

2600

2650



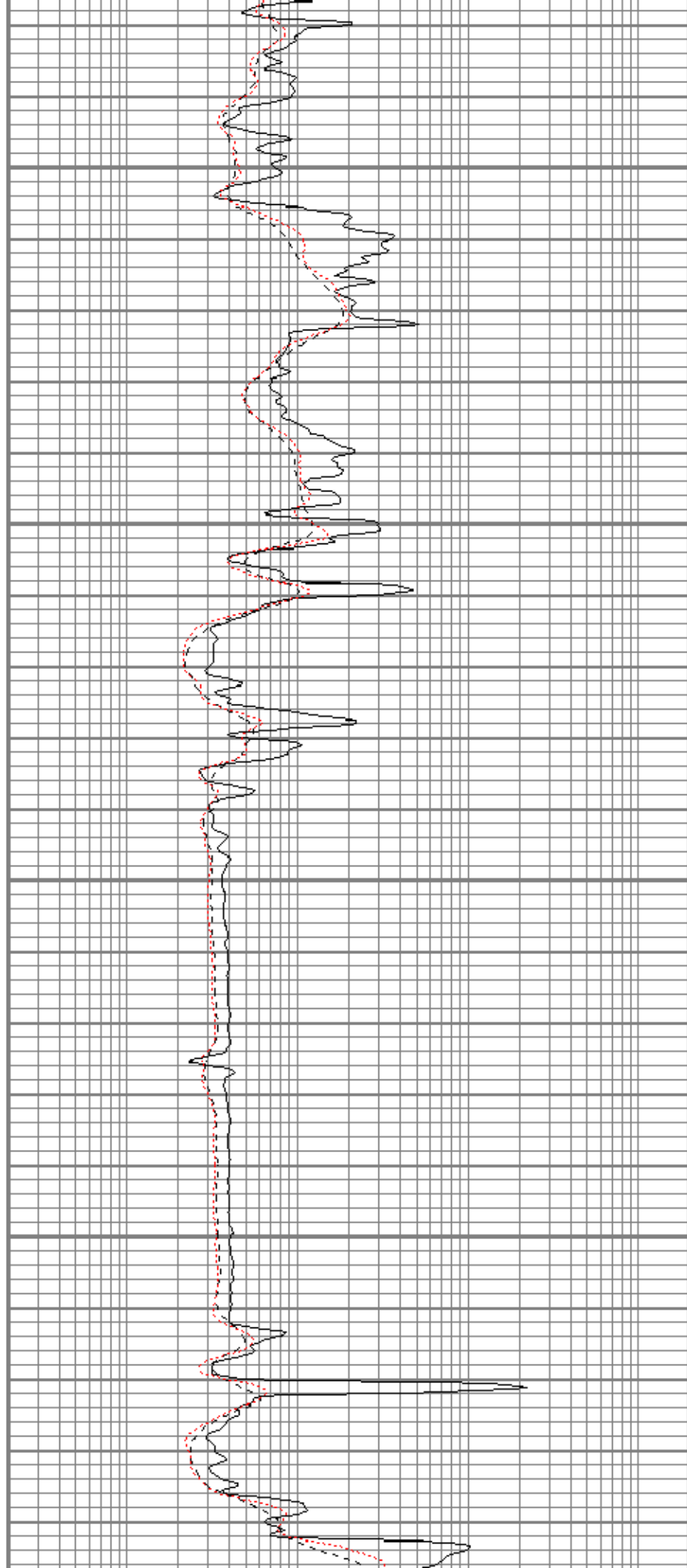


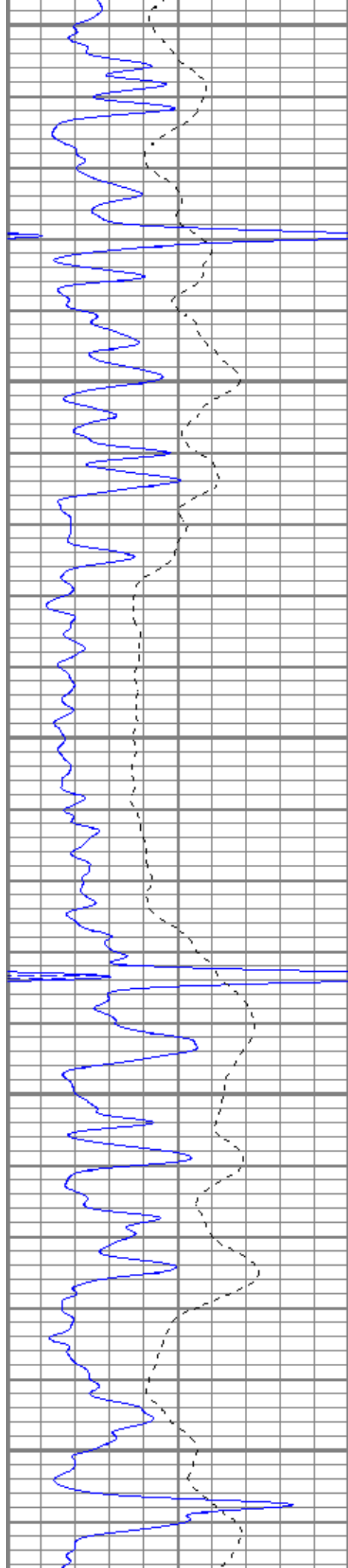
2700

2750

2800

2850





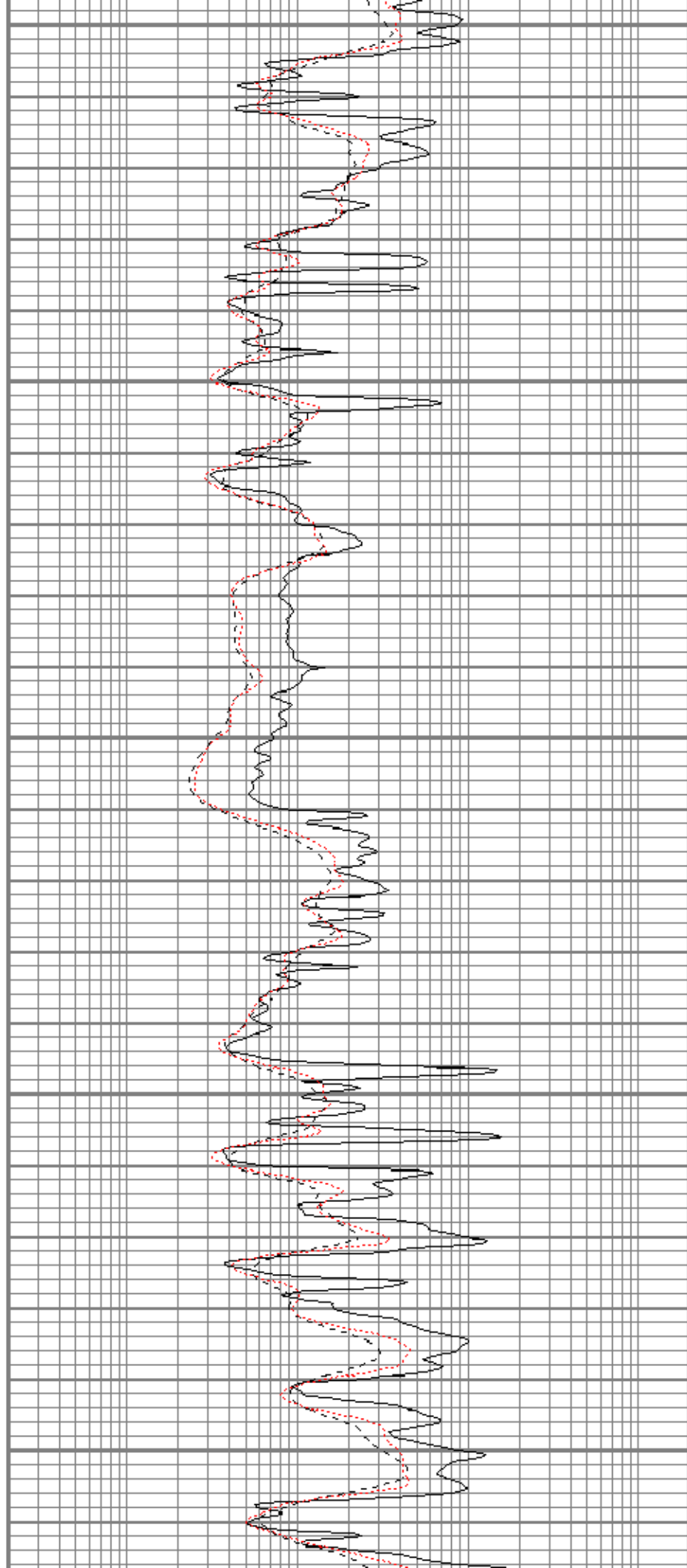
2900

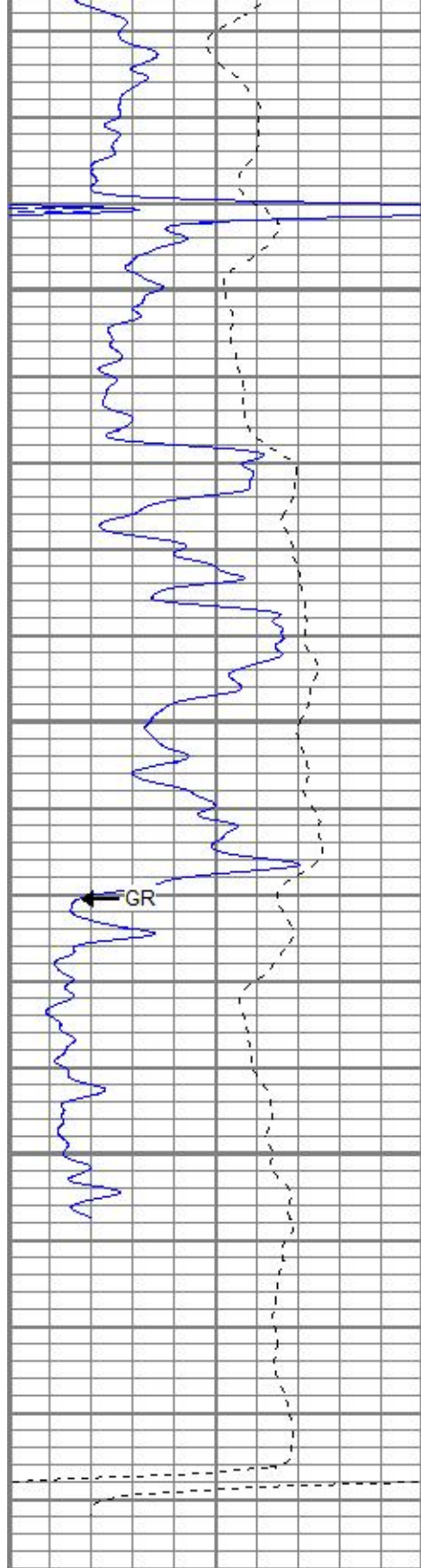
2950

3000

3050

3100





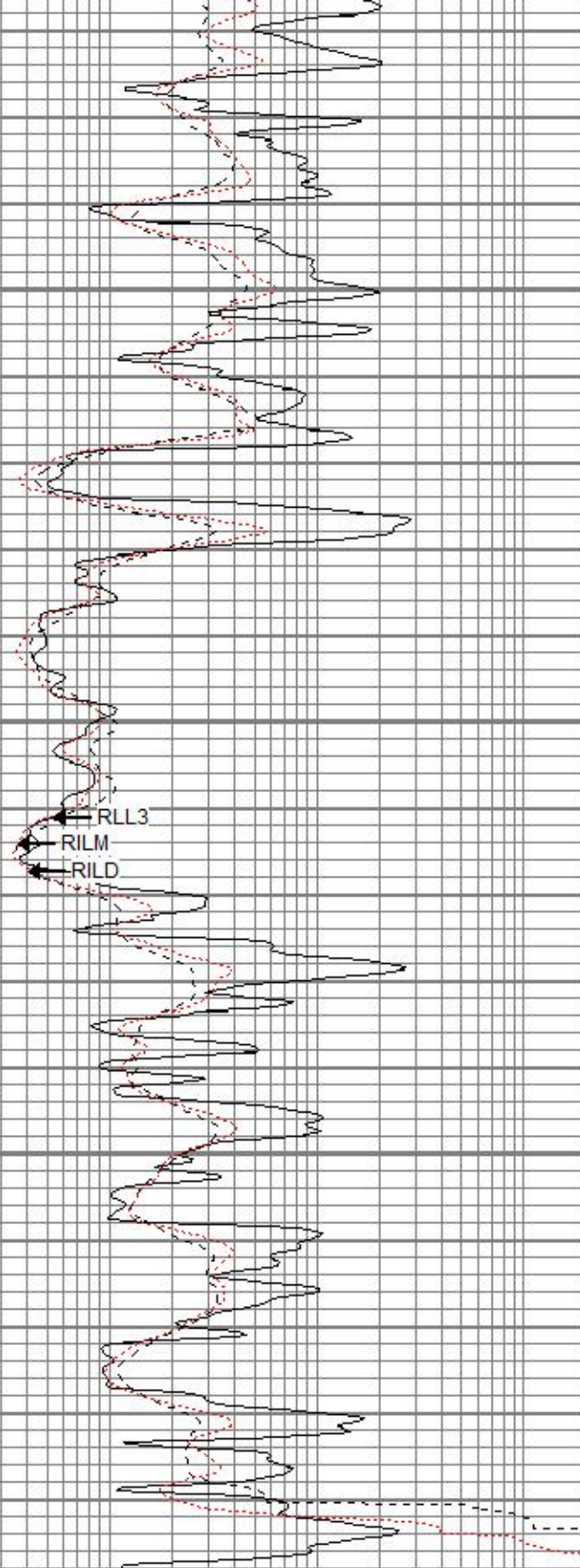
3150

3200

3250

GR

0	GR (GAPI)	150
-100	SP (mV)	100



RLL3

RILM

RILD

0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000

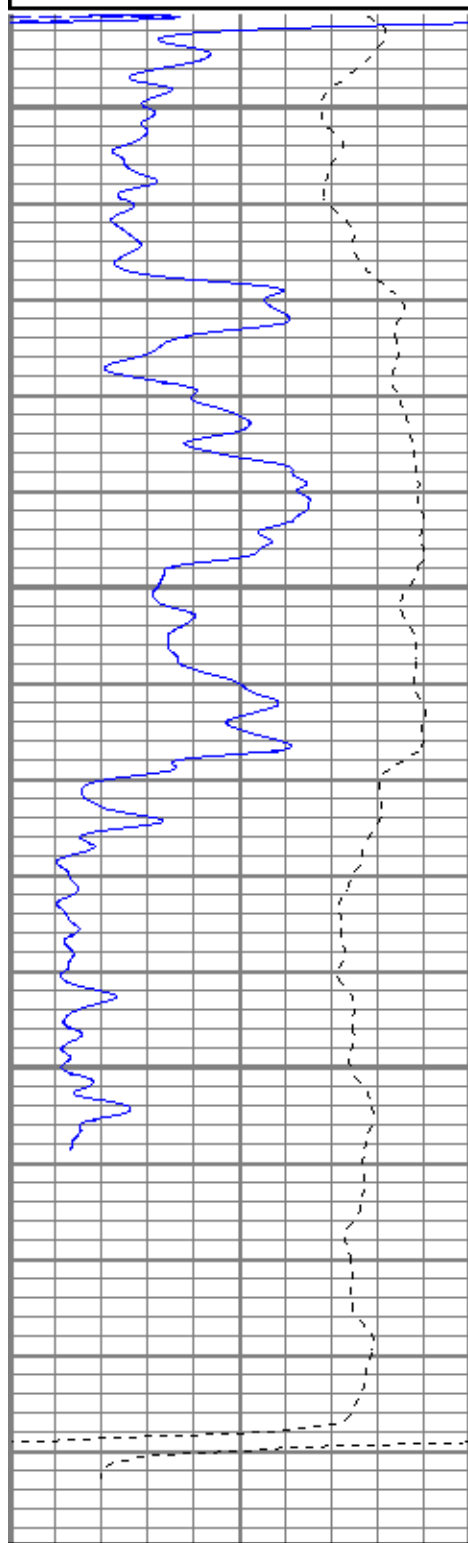


Repeat Pass

Database File	crwessler#4oh.db
Dataset Pathname	pass1.1
Presentation Format	kdil
Dataset Creation	Tue Dec 22 18:46:02 2015
Charted by	Depth in Feet scaled 1:240

0	GR (GAPI)	150
-100	SP (mV)	100

0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000

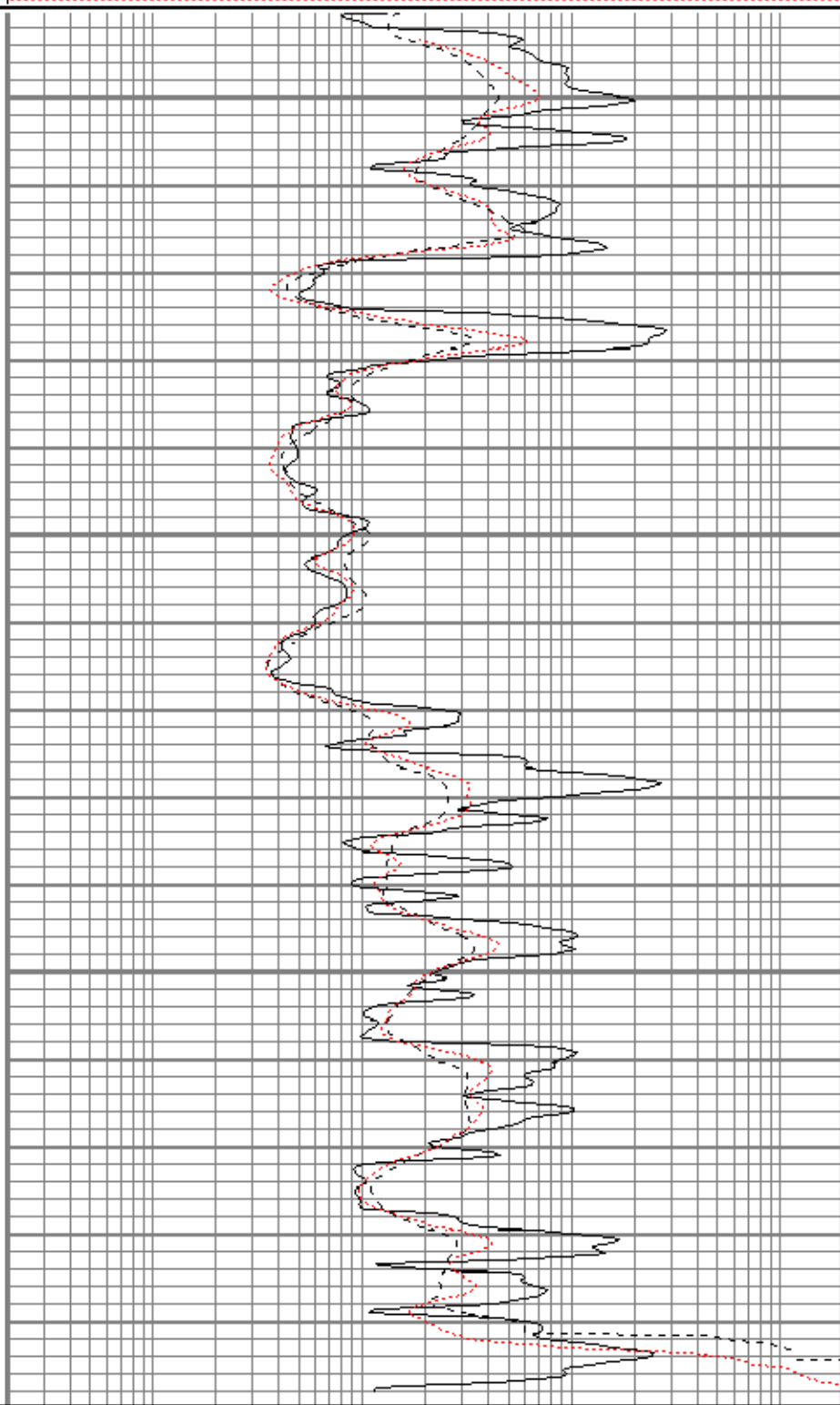


3150

3200

3250

3300



0	GR (GAPI)	150
-100	SP (mV)	100

0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000

Calibration Report

Database File	crwessler#4oh.db
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Dual Induction Calibration Report

Serial-Model: 080522-Probe
 Surface Cal Performed: Sun Dec 13 14:46:43 2015
 Downhole Cal Performed: Sun Dec 13 14:46:48 2015
 After Survey Verification Performed: Thu Nov 12 13:09:55 2015

Surface Calibration

Readings			References			Results		
Loop:	Air	Loop		Air	Loop	m	b	
Deep	0.003	0.649	V	0.000	400.000	mmho/m	619.409	-1.732
Medium	0.006	0.744	V	0.000	464.000	mmho/m	628.632	-3.814
Internal:	Zero	Cal		Zero	Cal	m	b	
Deep	0.002	0.649	V	0.000	400.000	mmho/m	617.810	-0.943
Medium	0.006	0.744	V	0.000	464.000	mmho/m	628.534	-3.898

Downhole Calibration

Readings			References			Results		
	Zero	Cal		Zero	Cal	m'	b'	
Deep	-1.410	400.435	mmho/m	-0.786	400.250	mmho/m	0.998	0.621
Medium	-0.107	464.272	mmho/m	0.084	464.157	mmho/m	0.999	0.192
LL3		7.262	V		750.000	Ohm-m		
		0.008	V		12.000	Ohm-m		
		-7.297	V		3745.000	mmho-m		

After Survey Verification

Readings			Targets			Results		
	Zero	Cal		Zero	Cal	m'	b'	
Deep	0.000	0.000	mmho/m	-1.410	400.435	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	-0.107	464.272	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		750.000	Ohm-m		
		0.000	Ohm-m		12.000	Ohm-m		
		0.000	mmho-m		3745.000	mmho-m		

Neutron Calibration Report

Serial Number: 2301AN
 Tool Model: Oilex
 Performed: (Not Performed)

Calibrator Value: 1 NAPI

Calibrator Reading: 1 cps

Sensitivity: 1 NAPI/cps

Gamma Ray Calibration Report

Serial Number: 1
 Tool Model: A
 Performed: Sun Nov 01 15:44:04 2015

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 0.7000 GAPI/cps

Temperature Calibration Report

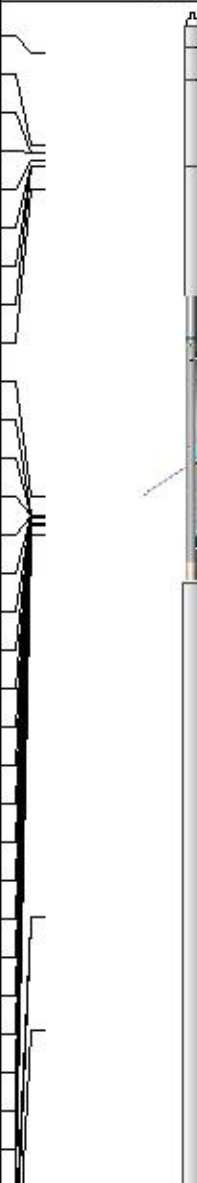
Serial Number: 1
Tool Model: A
Performed: Mon Feb 10 14:27:19 2014

	Reference	Reading
Low Reference:	0.00 degF	0.00 degF
High Reference:	32.00 degF	32.00 degF
Gain:	1.00	
Offset:	0.00	
Delta Spacing	1	

Inclinometer Calibration Report

Performed: Fri Nov 13 12:11:33 2015

	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	205.00	1843.00	-1.00	1.00	gee
Y Accelerometer	205.00	1843.00	-1.00	1.00	gee
Z Accelerometer					gee

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	38.71		CHD-STD	0.50	1.69	1.00
TEMP	35.74		ADT1PULSE-A (1) Pulsed Interface Tool #1	0.83	3.50	10.00
PSTAT	35.45		ADT1ADC-A (1) Analog Interface #1	0.83	3.50	10.00
ASTAT	35.45		ADT1SENSORS-A (1)	4.54	3.50	10.00
GRD	35.20		NEU-Oilex (2301AN) Oilex 100V NEU	4.27	3.50	80.00
ACCY	35.03					
ACCX	35.03					
SSTAT	35.03					
NEU	34.26					
LStat	24.30					
LS8	23.64		ADT1LITH-A (1) Admyr Litho Density Tool	9.29	3.50	240.00
LS7	23.64					
LS6	23.64					
LS5	23.64					
LS4	23.64					
LS3	23.64					
LS2	23.64					
LS1	23.64					
LSV	23.64					
LSD	23.62					
SSV	23.43					
SS8	23.43					
SS7	23.43					
SS6	23.43		DIL-Probe (080522) Probe Dual Induction	21.47	4.00	345.00
SS5	23.43					
SS4	23.43					
SS3	23.43					
SS2	23.43					
SS1	23.43					
DCAL	23.37					

SSD	23.04					
SP	10.60					
CILD	10.60					
CILM	6.89		Dataset:	crwessler#4oh.db: field/well/run1/pass1.1		
RLL3	1.70		Total length:	40.07 ft		
TR_Mon	0.00		Total weight:	696.00 lb		
			O.D.:	4.00 in		