



DUAL INDUCTION LOG

Company Triple Crown Operating, LLC.

Well Barricklow #2-33

Field Barricklow

County Ness

State Kansas

Location:

API #: 15 135 25917

990' FNL & 1535' FEL

SEC 33 TWP 20S RGE 22W

Permanent Datum Ground Level Elevation 2181'
Log Measured From KB 8' AGL
Drilling Measured From KB

Other Services
CDNL

Elevation

Company Triple Crown Operating, LLC.
Well Barricklow #2-33
Field Barricklow
County Ness
State Kansas

Date

12-9-16

Run Number

One

Depth Driller

4348'

Depth Logger

4348'

Bottom Logged Interval

4346'

Top Log Interval

2200'

Casing Driller

8 5/8" @ 1430'

Casing Logger

1430'

Bit Size

7 7/8"

Type Fluid in Hole

Chemical

Density / Viscosity

9.4/56

pH / Fluid Loss

9.5/8

Source of Sample

Pit

Rm @ Meas. Temp

1.9@65degf

Rmf @ Meas. Temp

1.33@65degf

Rmc @ Meas. Temp

3.36@76degf

Source of Rmf / Rmc

Calculated

Rm @ BHT

1.07@116degf

Time Circulation Stopped

9:00 p.m.

Time Logger on Bottom

3:00 a.m.

Maximum Recorded Temperature

116degf

Equipment Number

T127

Location

Hays, KS

Recorded By

L. Smith

Witnessed By

Mr. Rod Andersen

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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

South of Ness City to 20 Rd.
East to Z Rd. 1 South, 1 East, 1/2 South
West into.

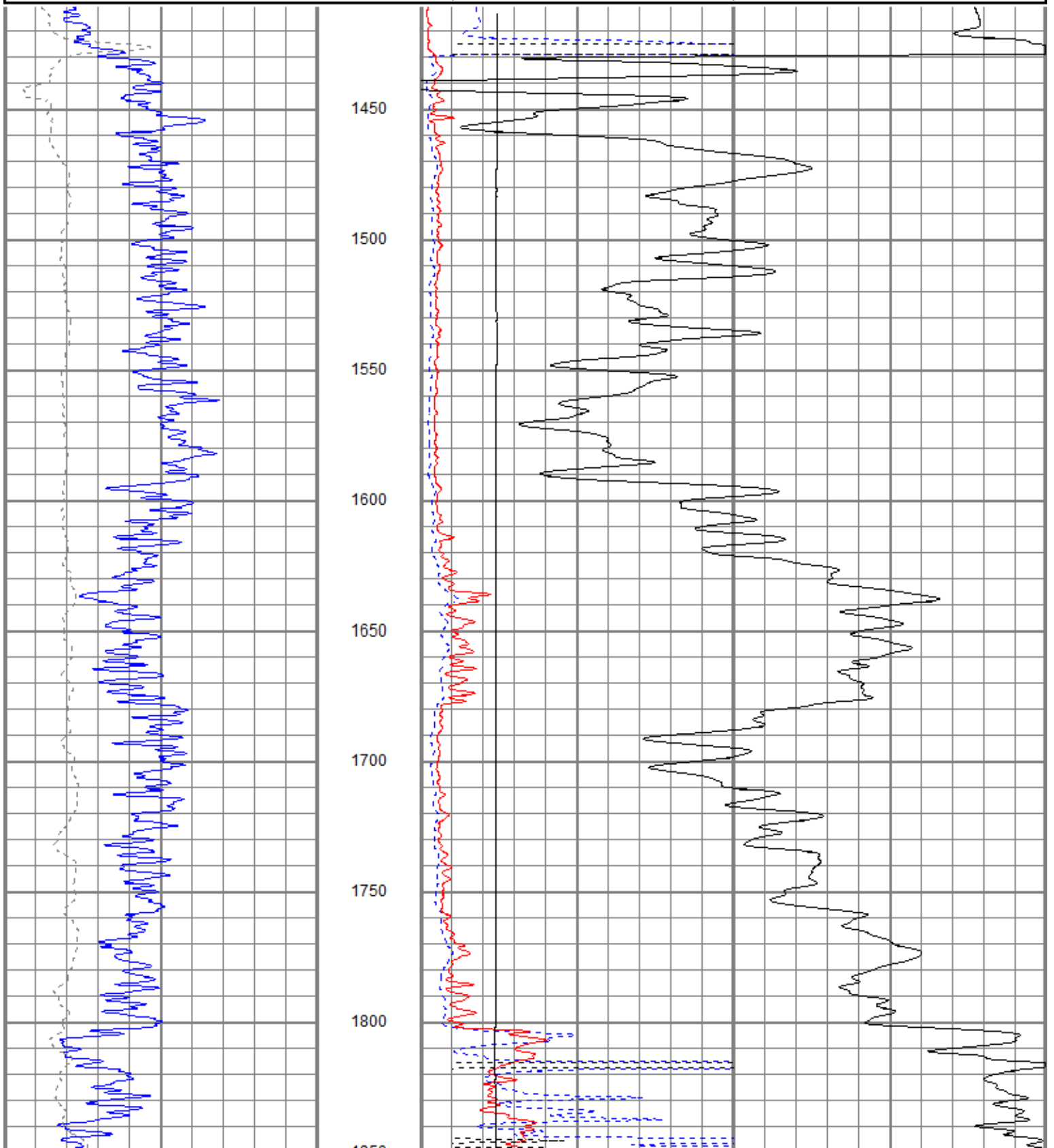


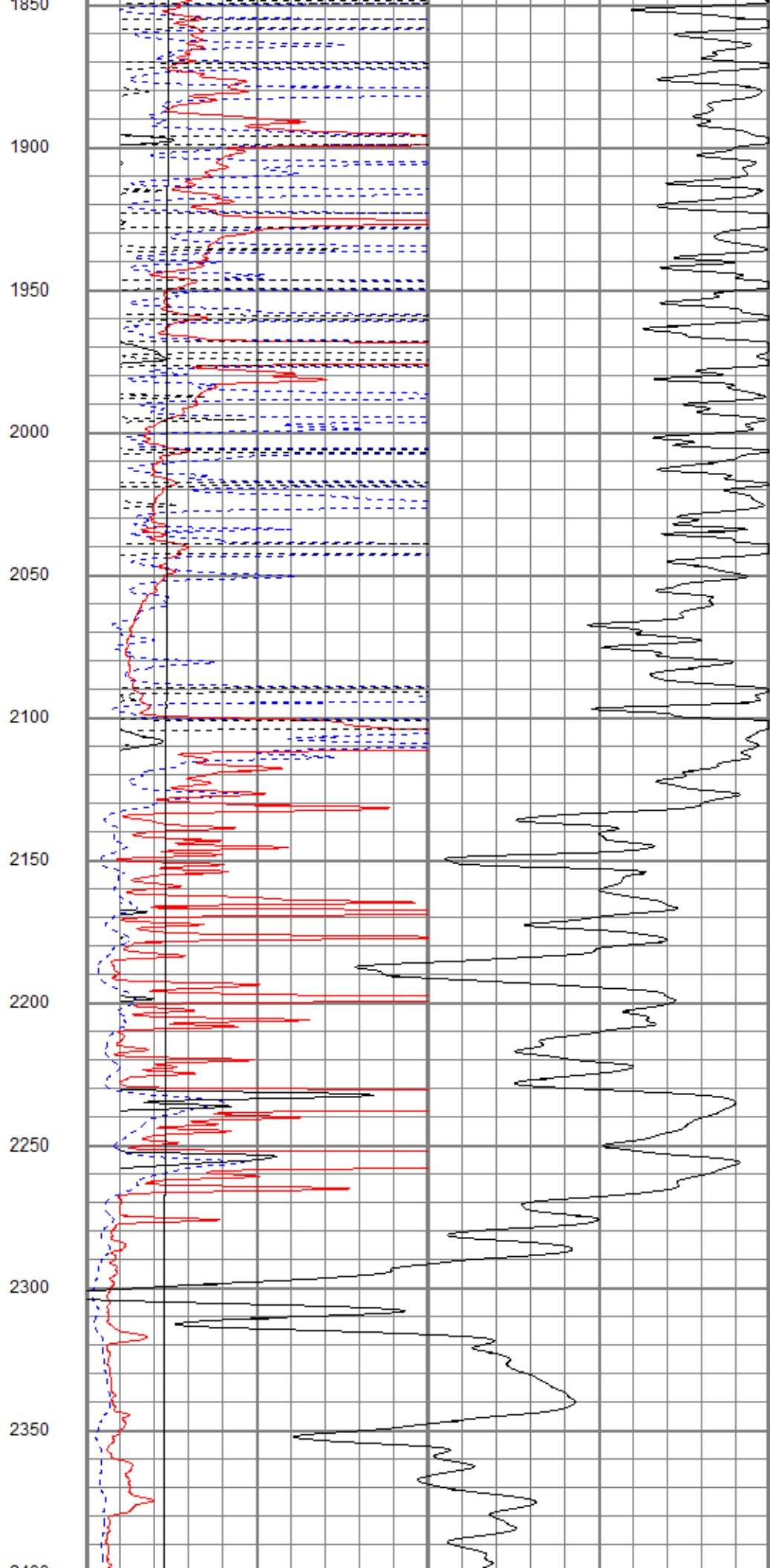
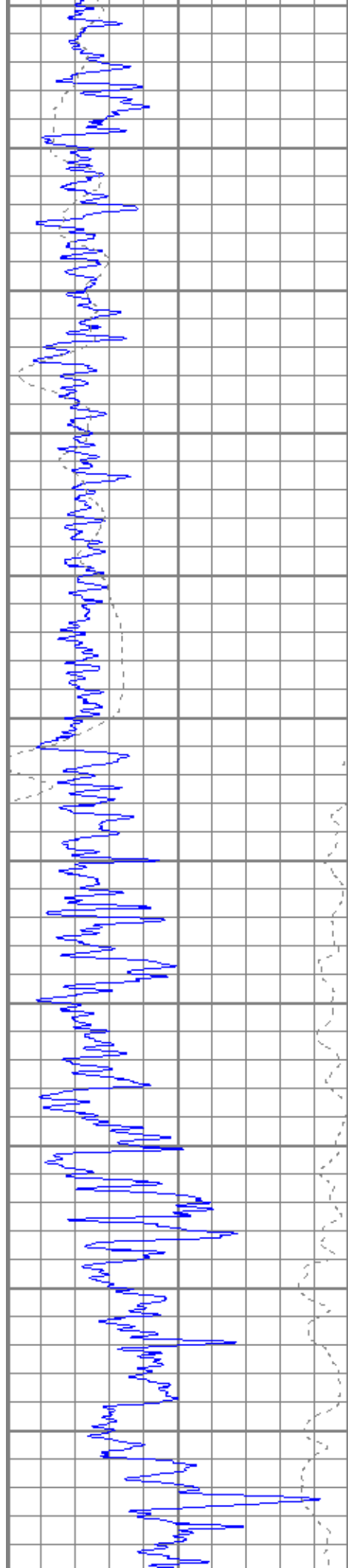
Main Pass

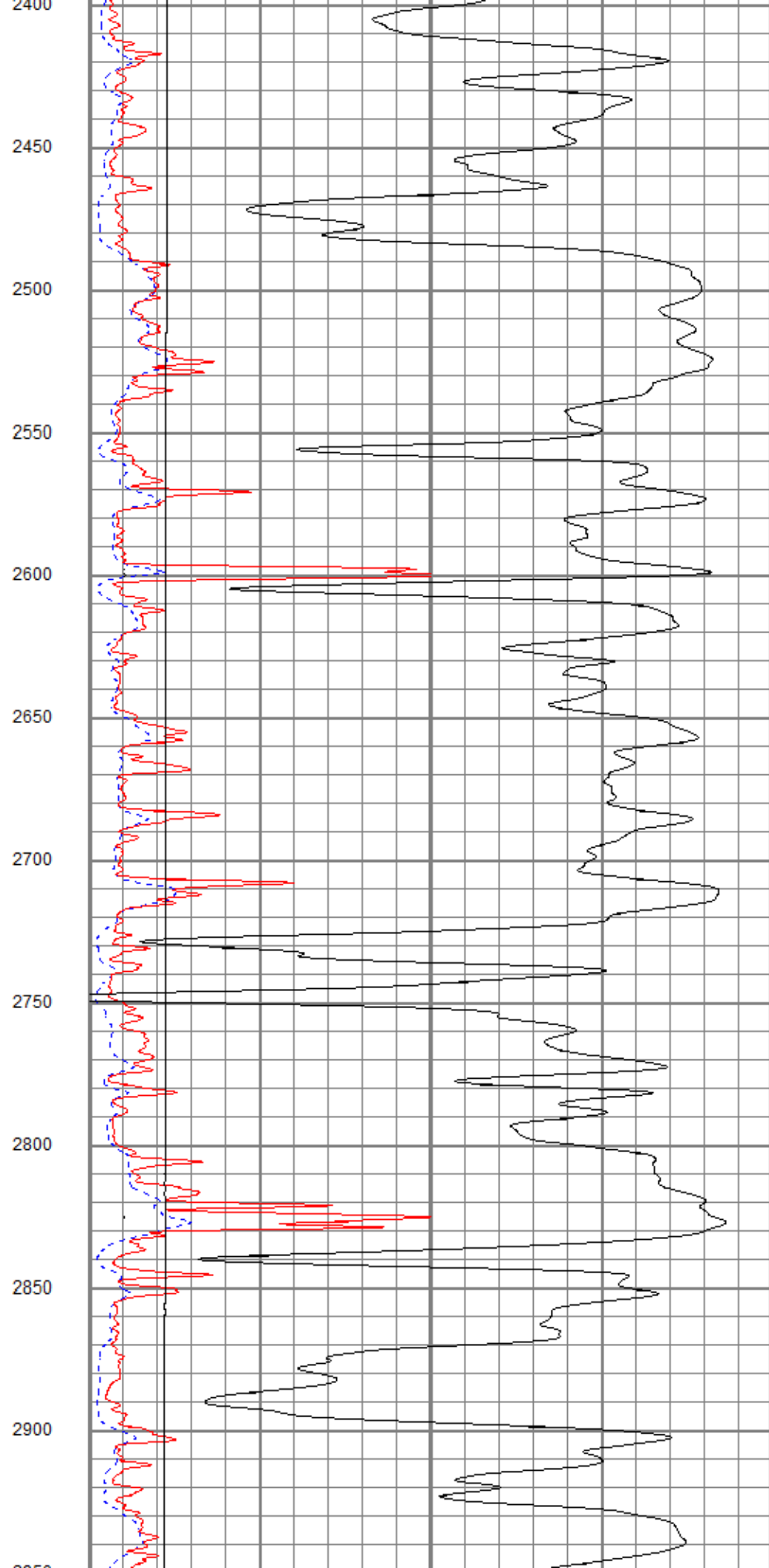
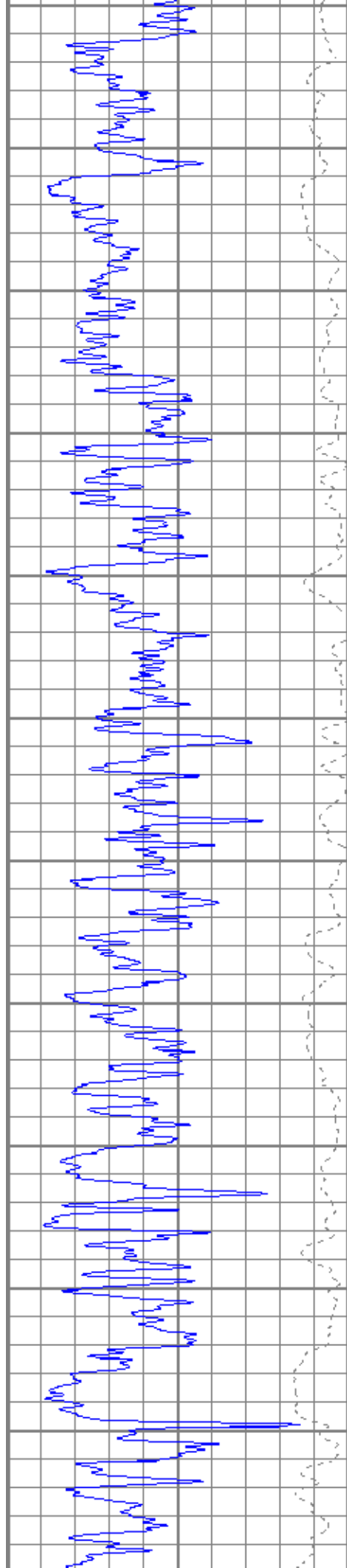
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 Dataset Pathname pass3.1
 Presentation Format kdillin2
 Dataset Creation Fri Dec 09 04:24:32 2016
 Charted by Depth in Feet scaled 1:600

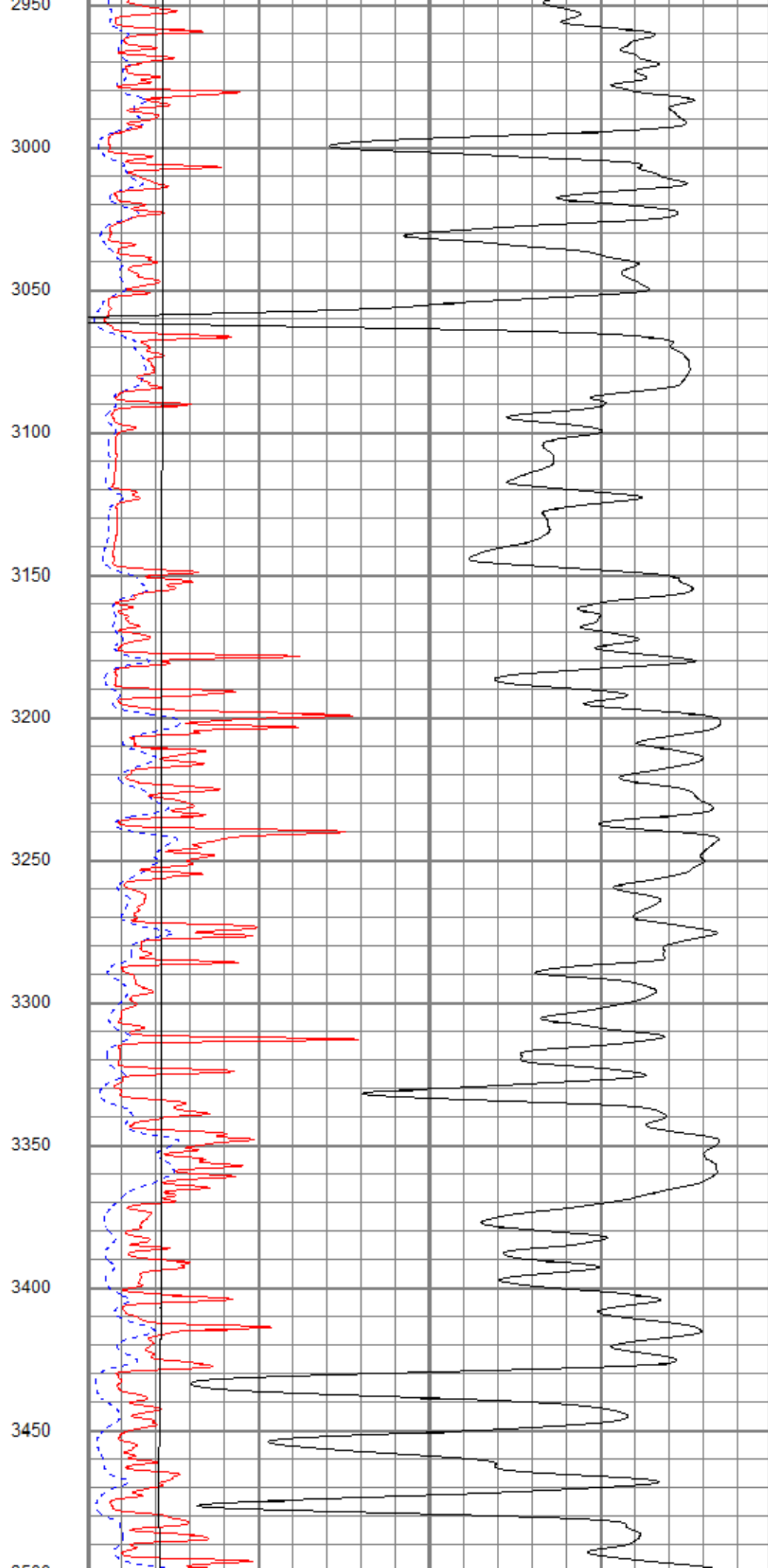
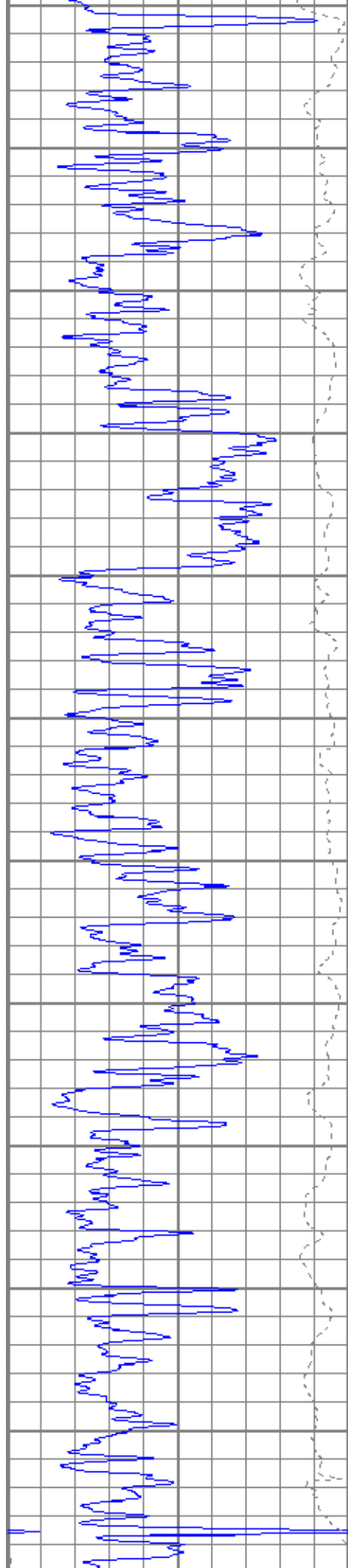
0	GR (GAPI)	150
-200	SP (mV)	0

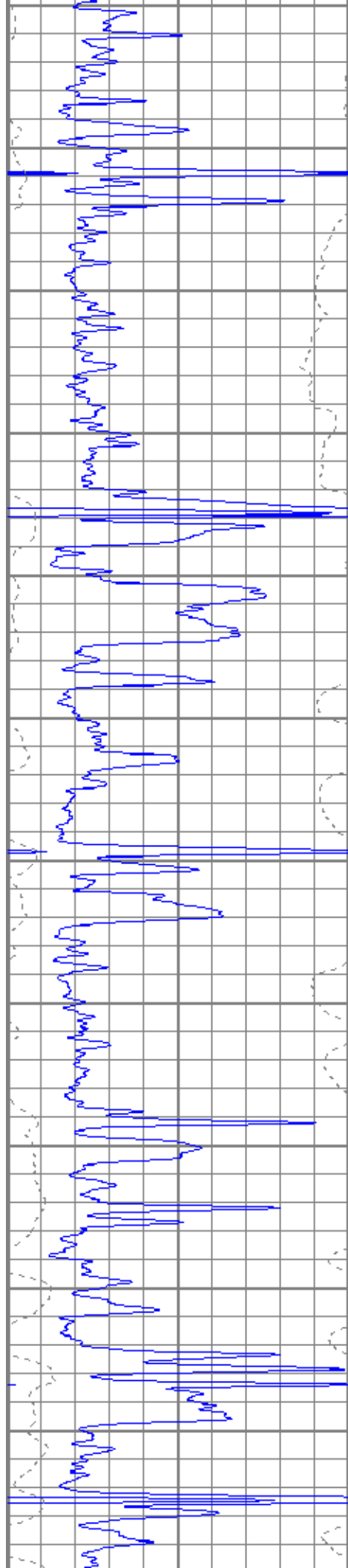
1000	CILD (mmho/m)	0
10000	LTEN (lb)	0
0	RILD (Ohm-m)	50
0	RLL3 (Ohm-m)	50
50	RILD x 10 (Ohm-m)	500
50	RLL3 x 10 (Ohm-m)	500



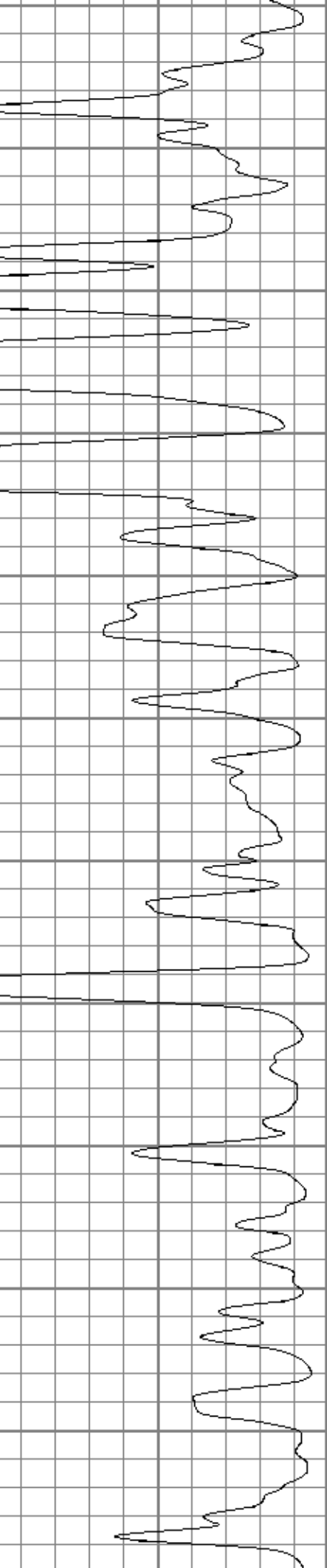
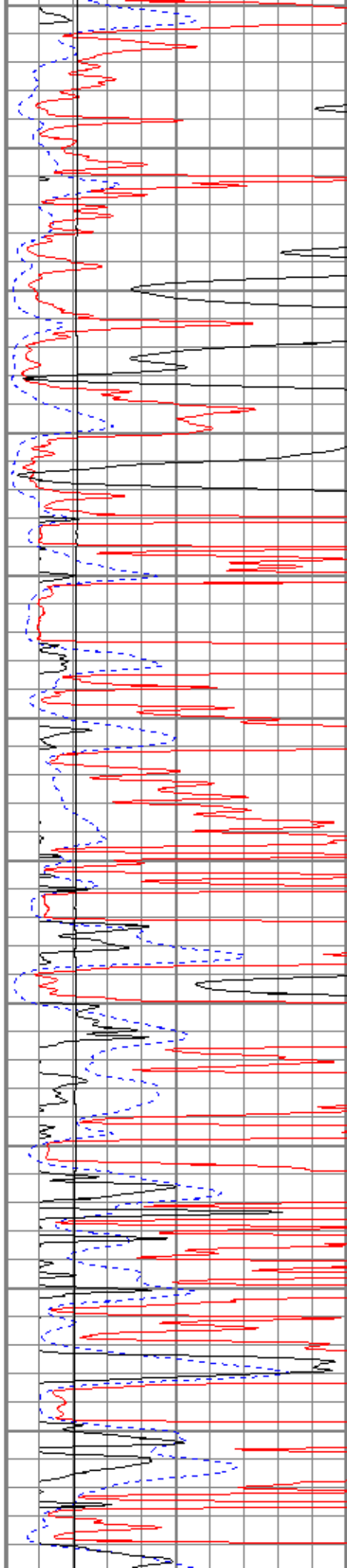


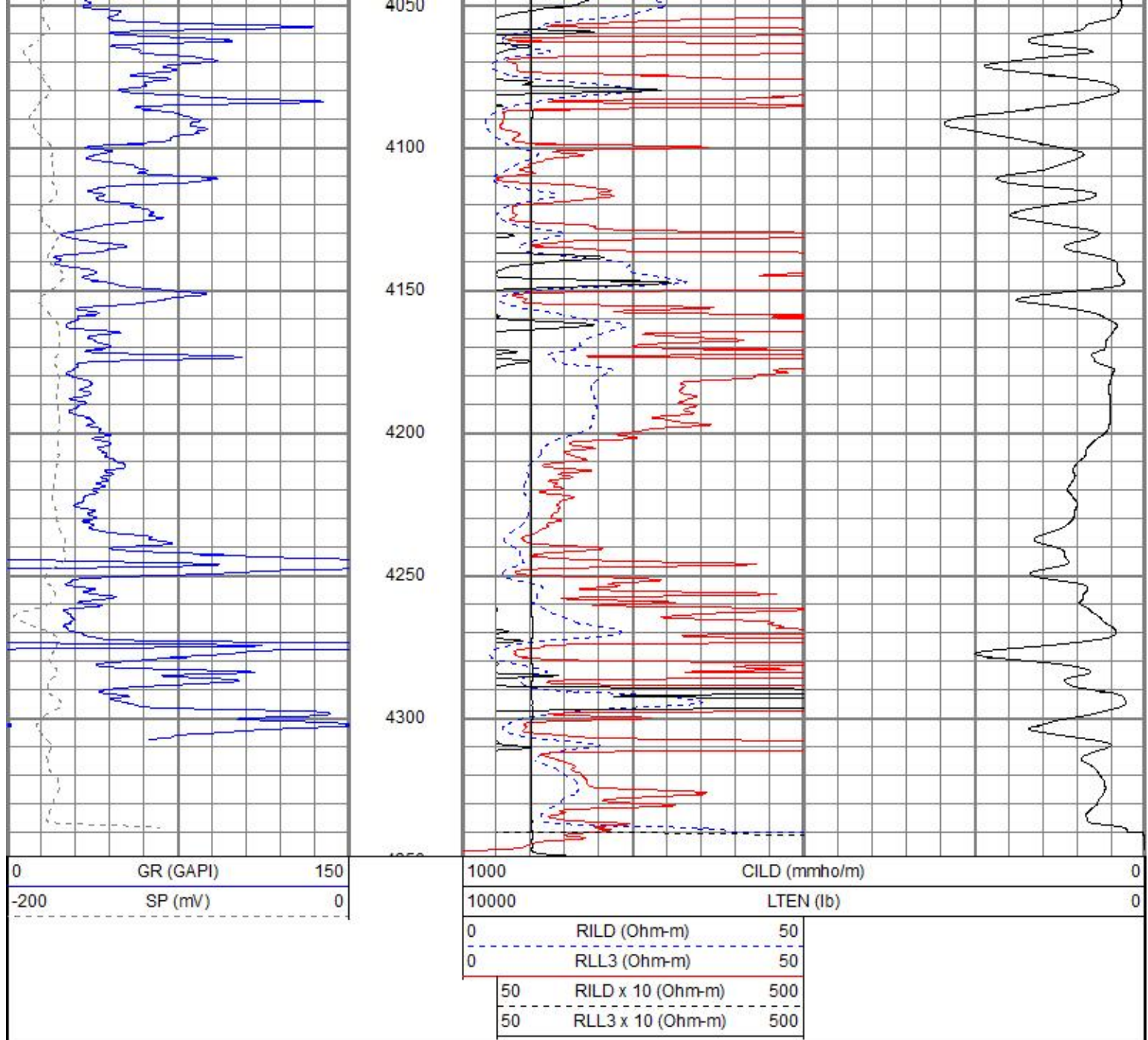






3500
3550
3600
3650
3700
3750
3800
3850
3900
3950
4000
4050



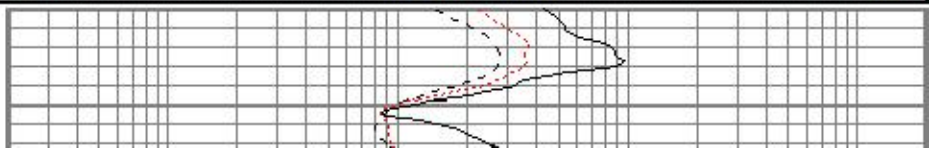
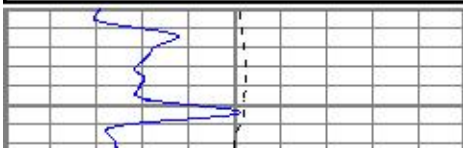


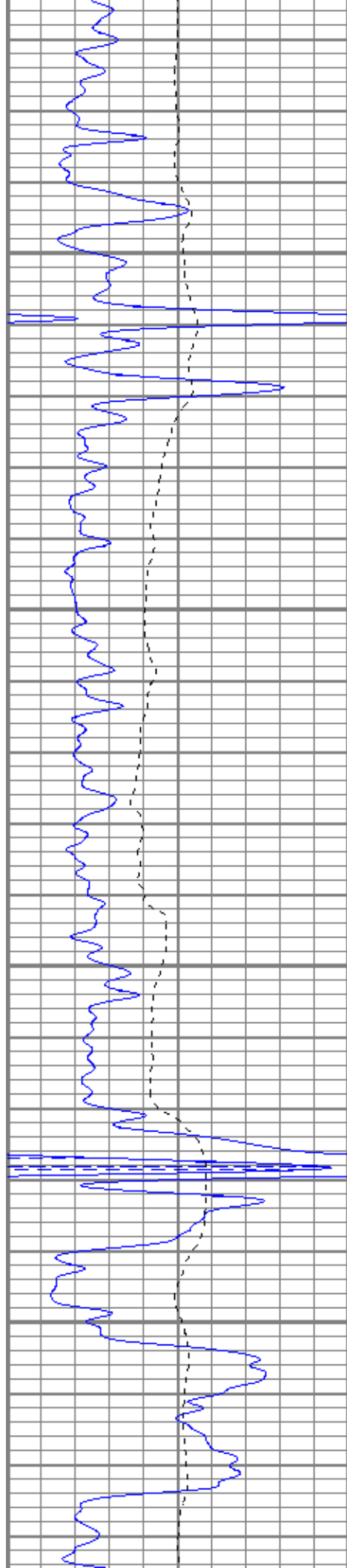
Main Pass

Database File: tcbarricklow2-33oh.db
 Dataset Pathname: pass3.1
 Presentation Format: kdil
 Dataset Creation: Fri Dec 09 04:24:32 2016
 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



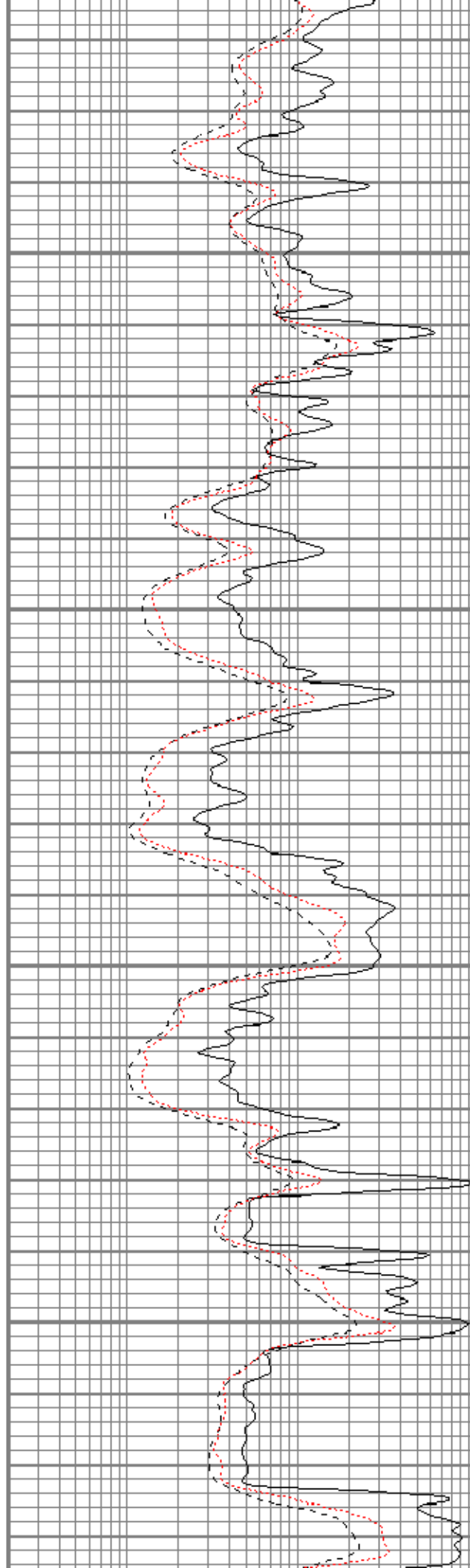


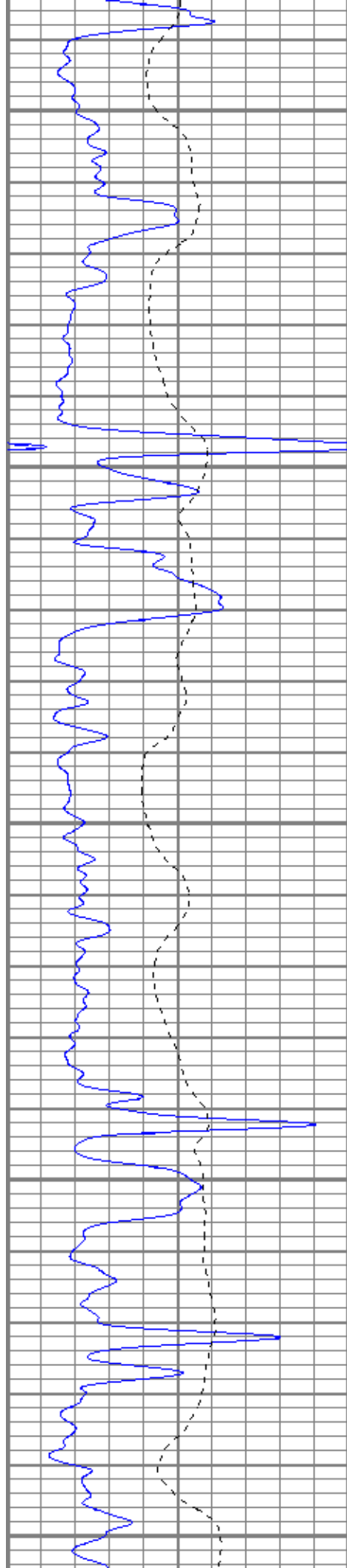
3550

3600

3650

3700





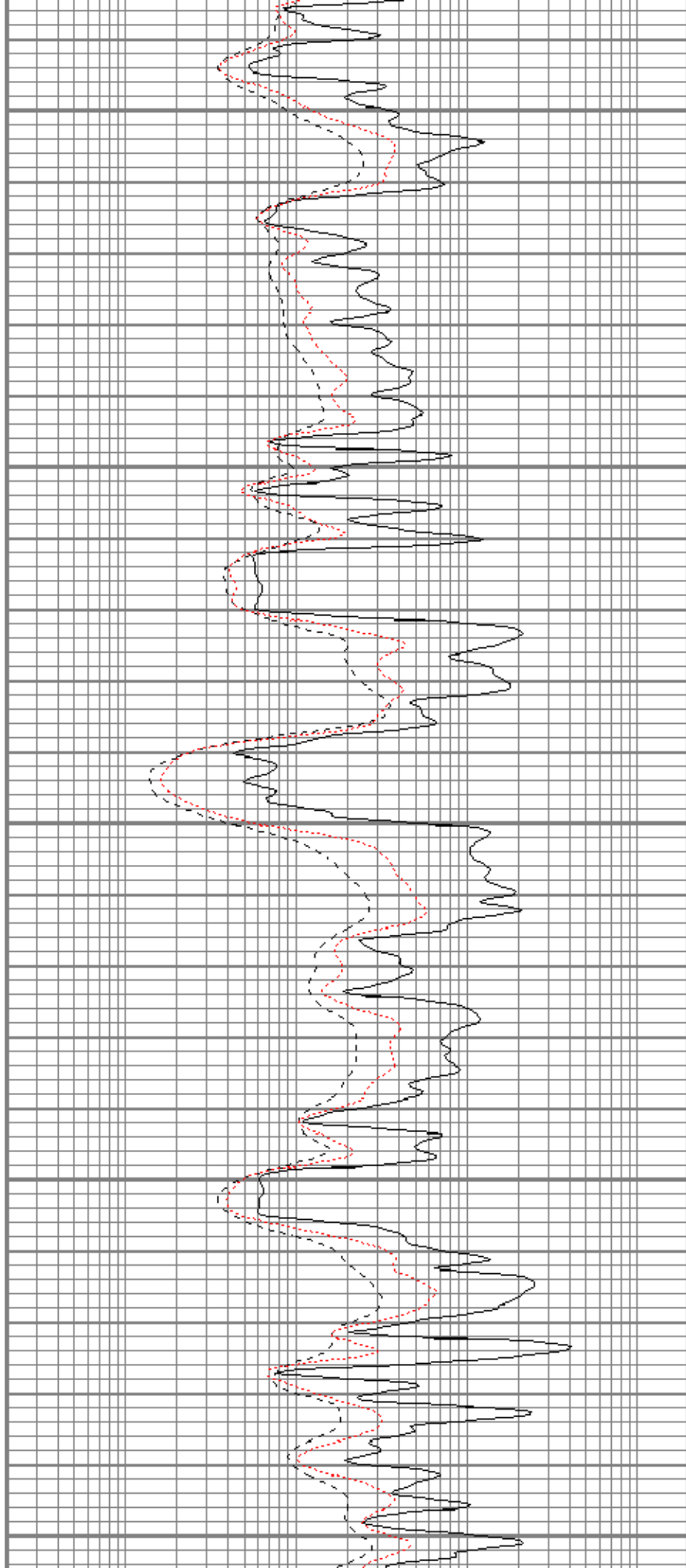
3750

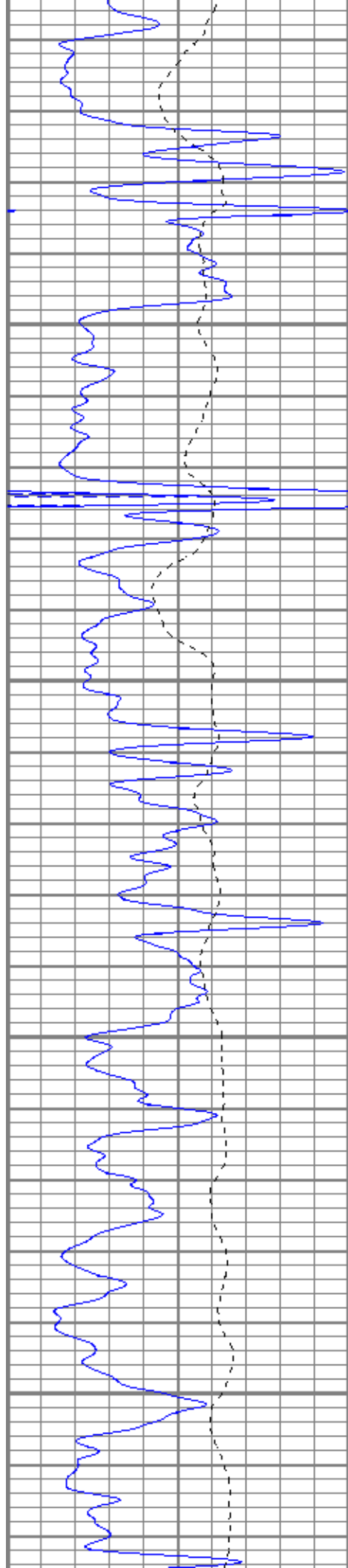
3800

3850

3900

3950



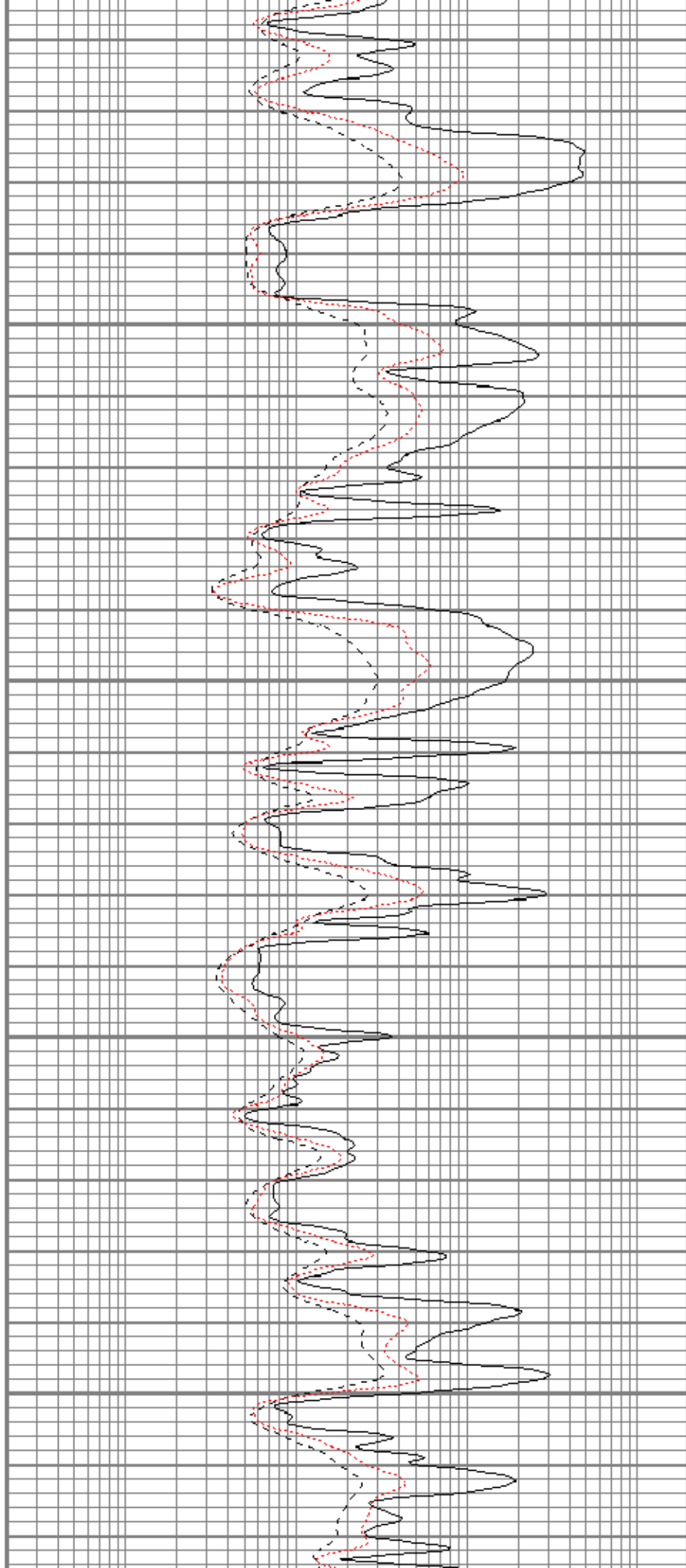


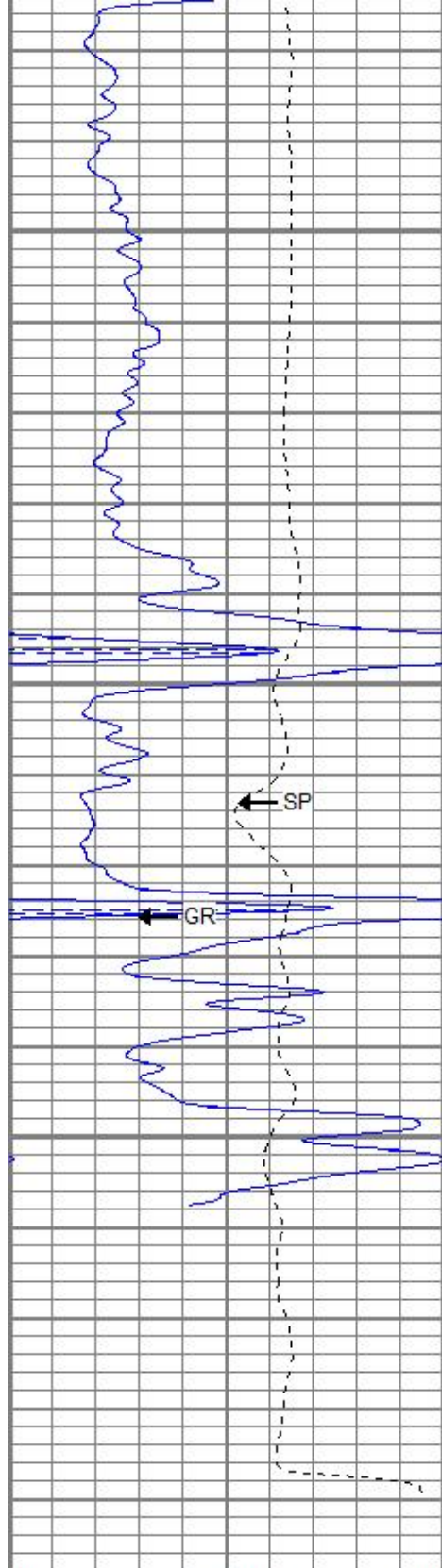
4000

4050

4100

4150





4200

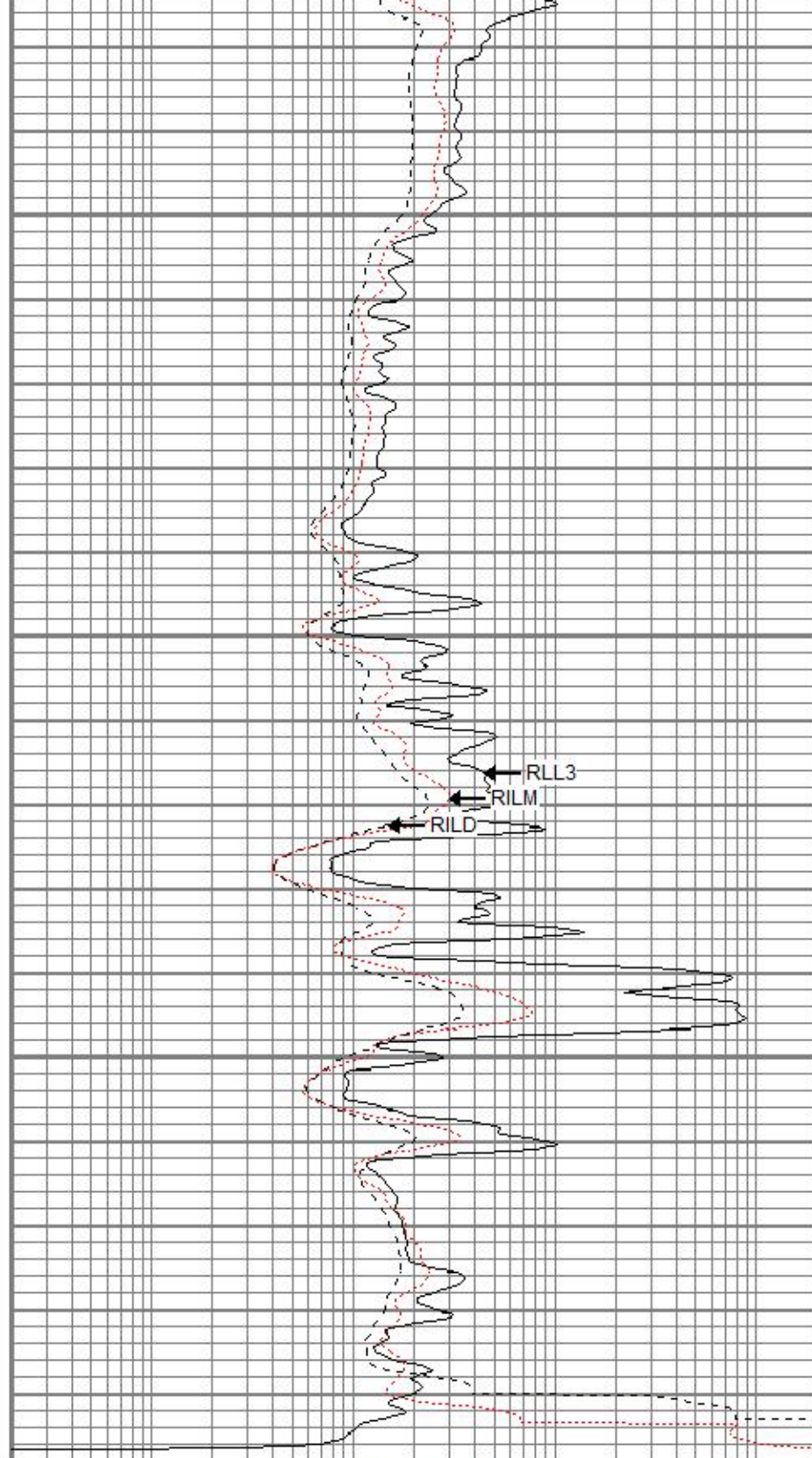
4250

4300

SP

GR

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



RLL3

RILM

RILD

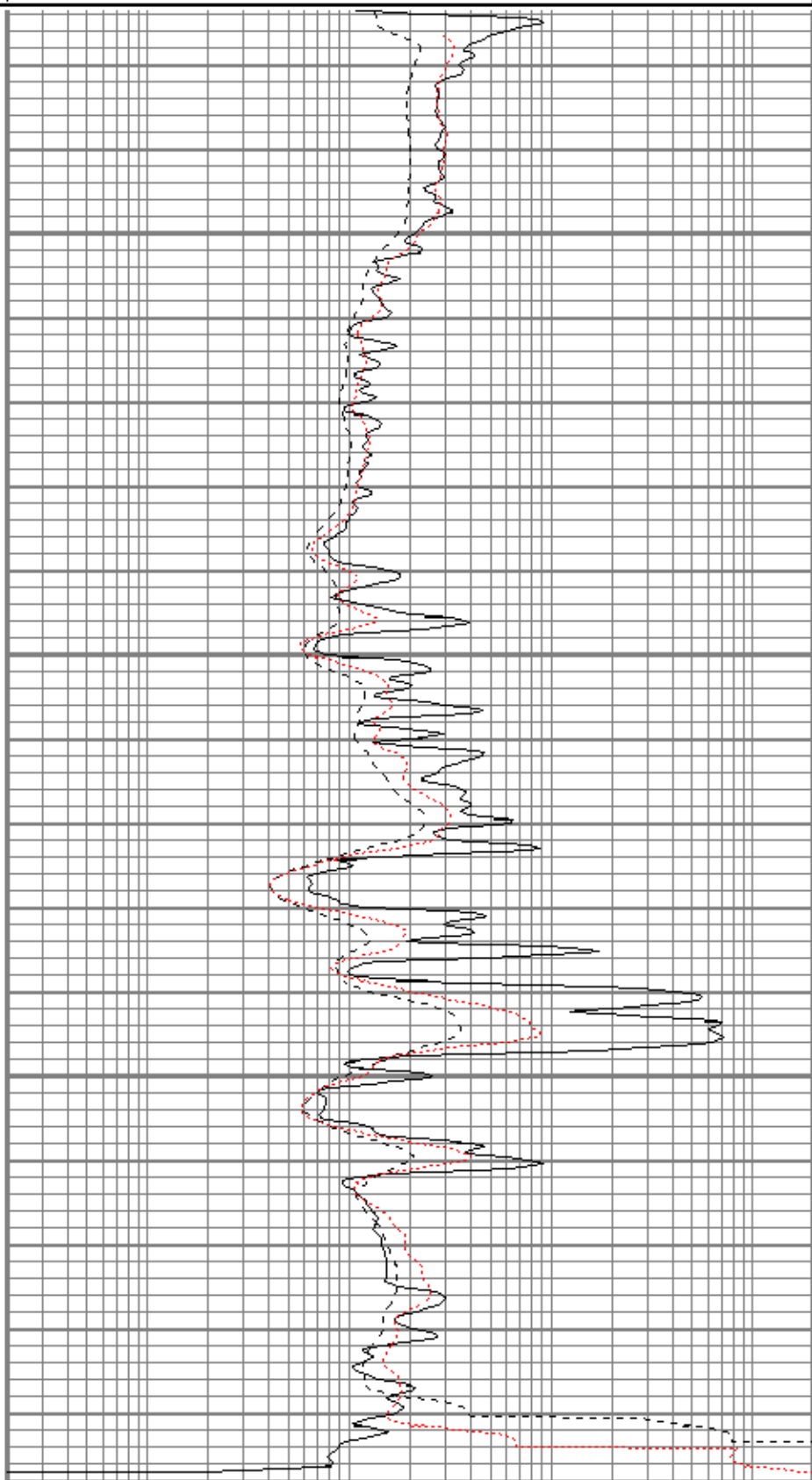
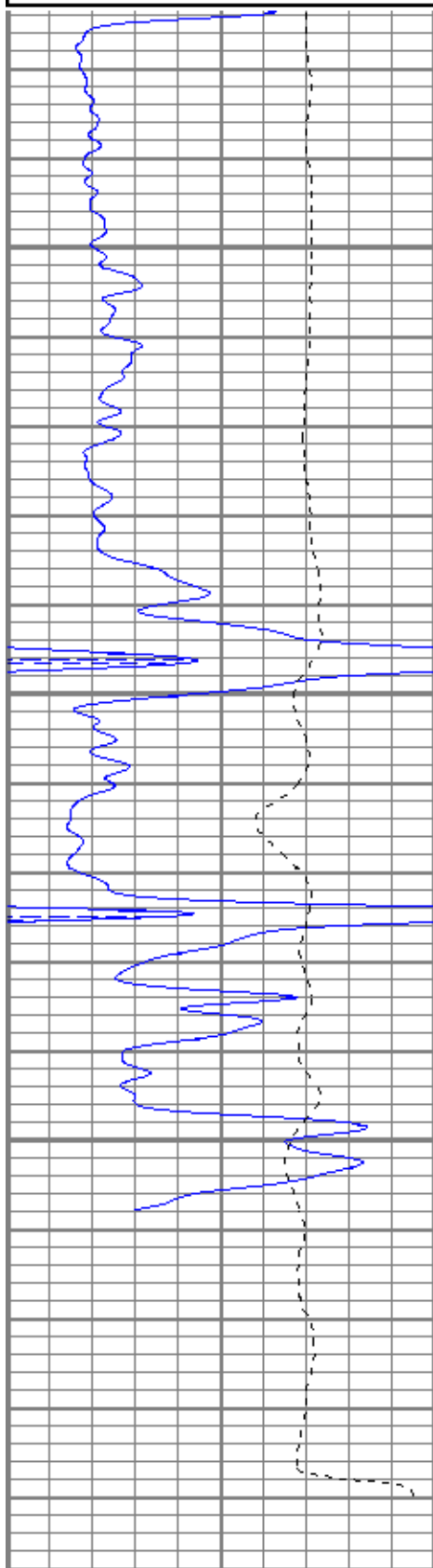
0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000



Repeat Pass

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	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

Serial-Model:	1989-ADM
Surface Cal Performed:	Mon Jul 11 21:35:42 2016
Downhole Cal Performed:	Mon Jul 11 21:36:11 2016
After Survey Verification Performed:	Mon Jul 11 21:36:11 2016

Readings			References			Results		
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.002	0.656	V	0.000	350.000	mmho/m	535.560	-1.118
Medium	0.003	0.745	V	0.000	400.000	mmho/m	538.828	-1.427
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.656	V	0.000	350.000	mmho/m	535.220	-1.003
Medium	0.003	0.745	V	0.000	550.000	mmho/m	741.357	-2.036

Readings			References			Results		
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	-0.036	349.993	mmho/m	-0.114	350.108	mmho/m	1.001	-0.078
Medium	0.039	400.181	mmho/m	0.053	399.799	mmho/m	0.999	0.013
Shallow	2.503	0.015	V	500.000	2.000	Ohm-m	200.177	-2.046

Readings			Targets			Results		
Internal:	Zero	Cal	Zero	Cal		m'	b'	
Deep	0.000	0.000	mmho/m	-0.036	349.993	mmho/m	1.001	-0.078
Medium	0.000	0.000	mmho/m	0.039	400.181	mmho/m	0.999	0.013
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

Serial Number:	Admyr	
Tool Model:	G	
Performed:	Mon Mar 14 10:45:21 2016	
Calibrator Value:	1	NAPI
Calibrator Reading:	1	cps
Sensitivity:	1	NAPI/cps

Serial Number:	1	
Tool Model:	A	
Performed:	Fri Dec 09 02:53:26 2016	
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: Sat Apr 09 21:14:20 2016

	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)
PSTAT	39.60		CHD-STD	0.50	1.69	1.00
GR	38.32		ADT1PULSE-A (1) Pulsed Interface Tool #1	0.83	3.50	10.00
TEMP	35.35		ADT1ADC-A (1) Analog Interface #1	0.83	3.50	10.00
ASTAT	35.06		ADT1SENSORS-A (1)	4.54	3.50	10.00
GRD	34.81		NEU-G (Admyr) Gearhart Epithermal	5.65	3.50	85.00
ACCY	34.65					
ACCX	34.65					
SSTAT	34.65					
NEU	33.46					
LStat	22.54					
LS8	21.88					
LS7	21.88					
LS6	21.88		ADT1LITH-A (1) Admyr Litho Density Tool	9.29	3.50	240.00
LS5	21.88					
LS4	21.88					
LS3	21.88					
LS2	21.88					
LS1	21.88					
LSV	21.88					
LSD	21.86					
SSV	21.67					
SS8	21.67					
SS7	21.67					
SS6	21.67					
SS5	21.67		DIL-ADM (1989) Dual Induction	19.71	4.00	300.00
SS4	21.67					
SS3	21.67					
SS2	21.67					
SS1	21.67					

DCAL	21.61				
SSD	21.27				
SP	10.60				
CILD	10.60				
CILM	6.89		Dataset:	tcbarricklow2-33oh.db: field/well/run1/pass2.1	
RLL3	1.70		Total length:	39.69 ft	
TR_Mon	0.00		Total weight:	656.00 lb	
			O.D.:	4.00 in	