



**DUAL
INDUCTION
LOG**

Company American Oil LLC.
Well Bradley Unit #1 OWWO
Field Bloomer
County Barton
State Kansas

Company American Oil LLC.
Well Bradley Unit #1 OWWO
Field Bloomer
County Barton State Kansas

Location: 660' FNL & 2640' FEL
SEC 36 TWP 17S RGE 11W
Permanent Datum Ground Level Elevation 1820'
Log Measured From KB 8' AGL
Drilling Measured From KB
Other Services
CDNL
Elevation
K.B. 1828'
D.F. 1827'
G.L. 1820'

Date	8-18-18
Run Number	Two
Depth Driller	3340'
Depth Logger	3342'
Bottom Logged Interval	3340'
Top Log Interval	330'
Casing Driller	8 5/8" @ 346'
Casing Logger	346'
Bit Size	7 7/8"
Type Fluid in Hole	Chemical
Density / Viscosity	9.1/57
PH / Fluid Loss	8.8/10.6
Source of Sample	Pit
Rm @ Meas. Temp	0.7 @ 82degf
Rmf @ Meas. Temp	0.56 @ 82degf
Rmc @ Meas. Temp	0.9 @ 82degf
Source of Rmf / Rmc	Calculated
Rm @ BHT	0.53 @ 108degf
Time Circulation Stopped	12:00 a.m
Time Logger on Bottom	3:45 a.m
Maximum Recorded Temperature	108degf
Equipment Number	T-127
Location	Hays, KS.
Recorded By	C.Patterson
Witnessed By	

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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.

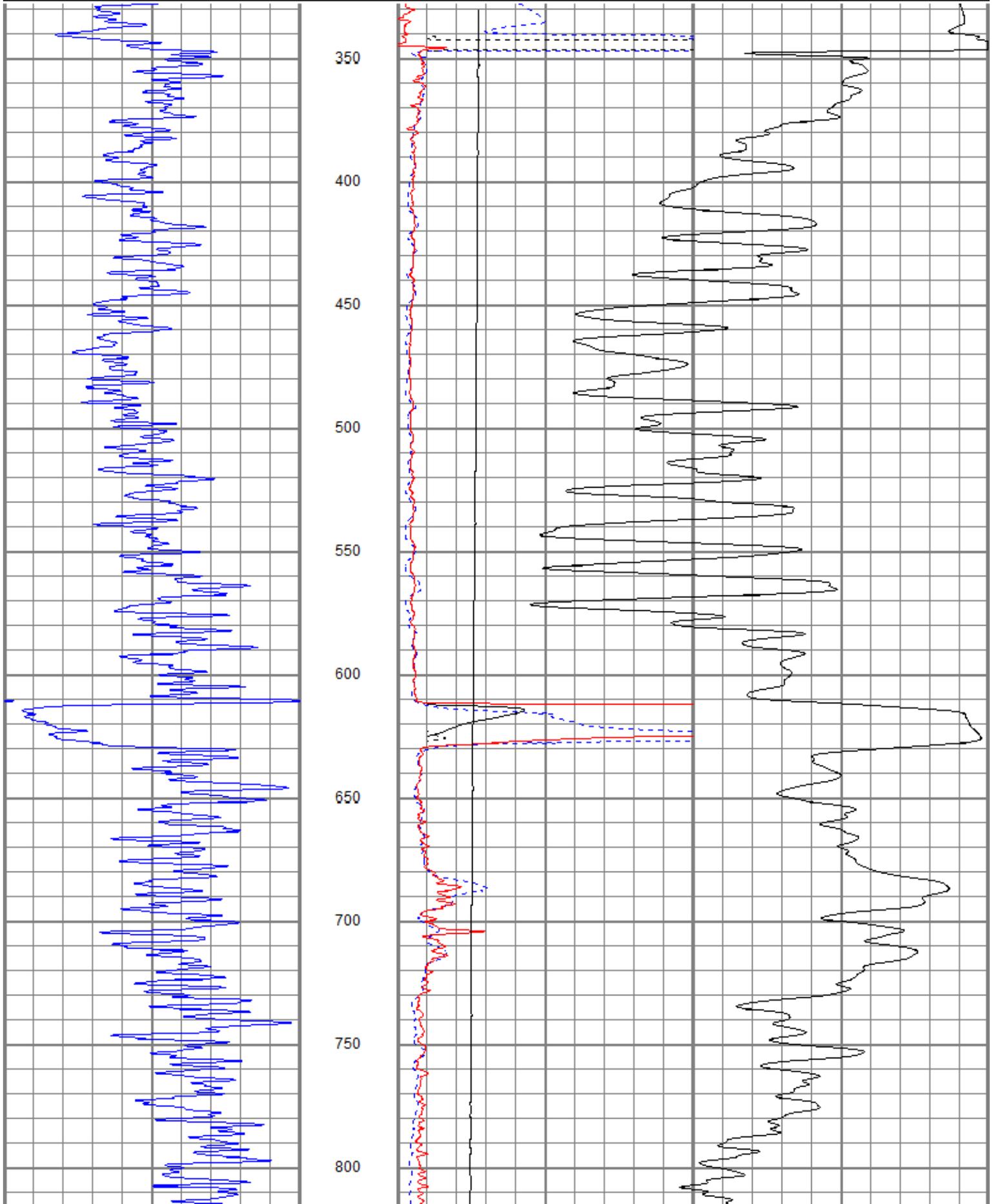
Comments

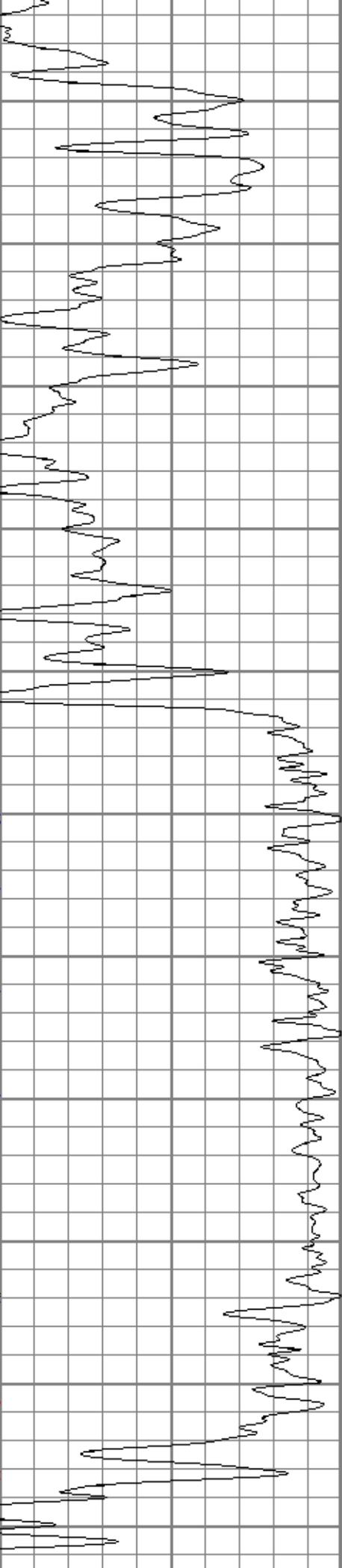
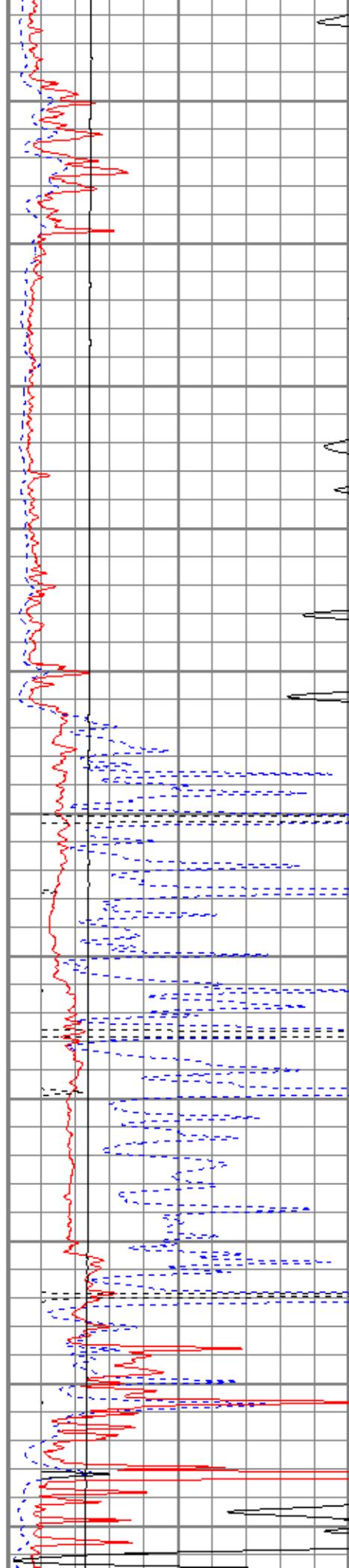
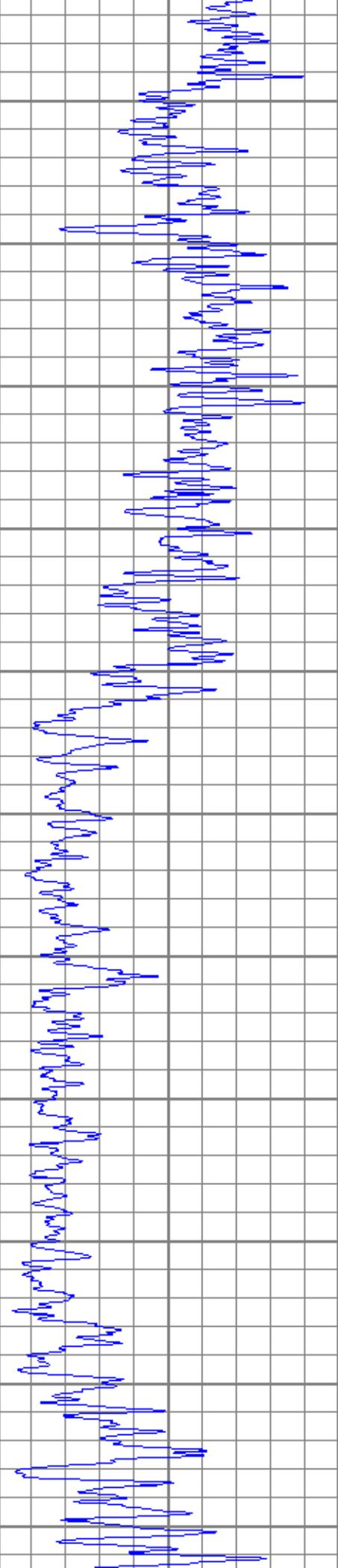
**East of Claflin ,KS to Hwy 156, Then North on Hwy 156 3/4 mi.
East into Location**

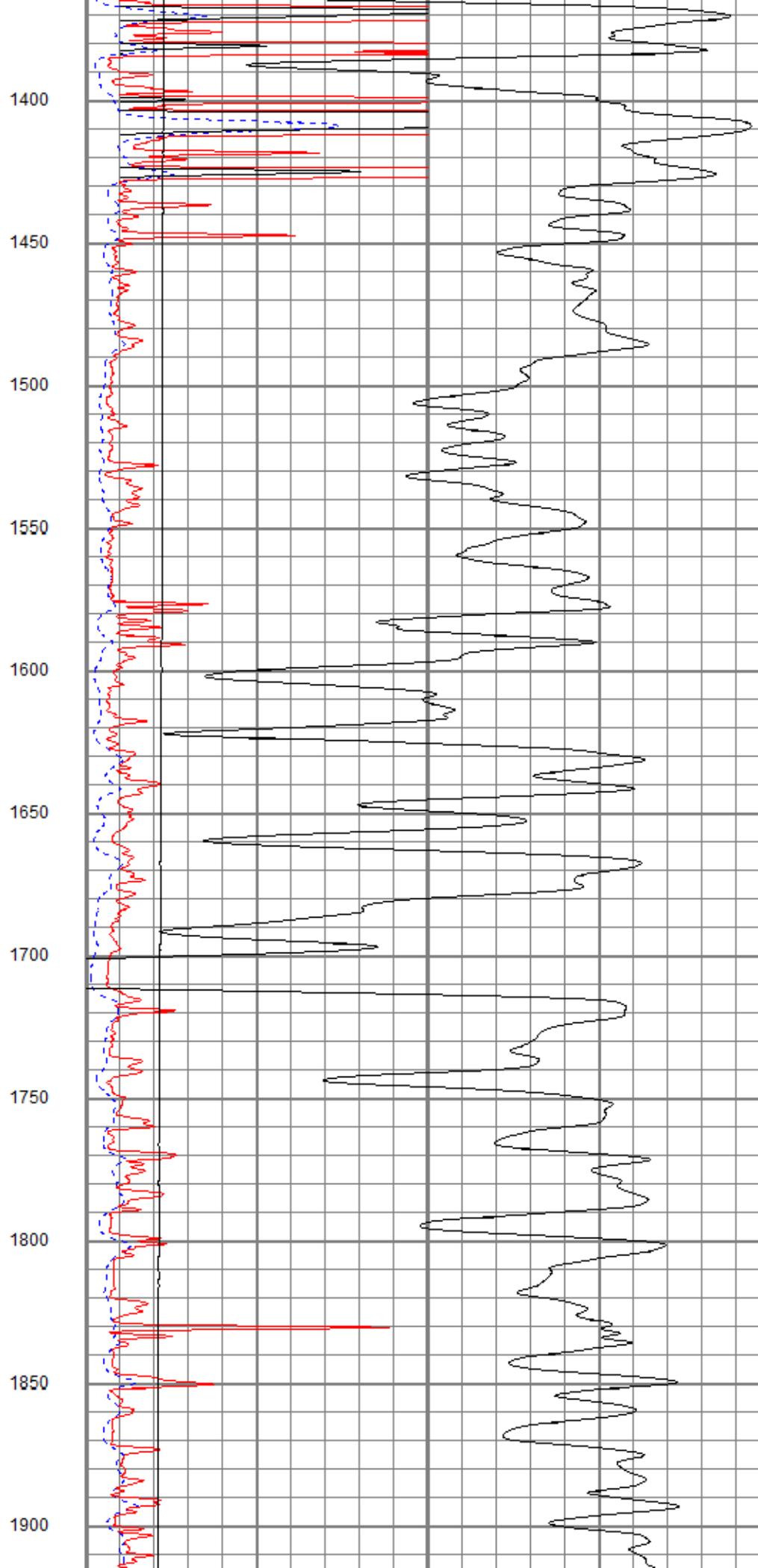
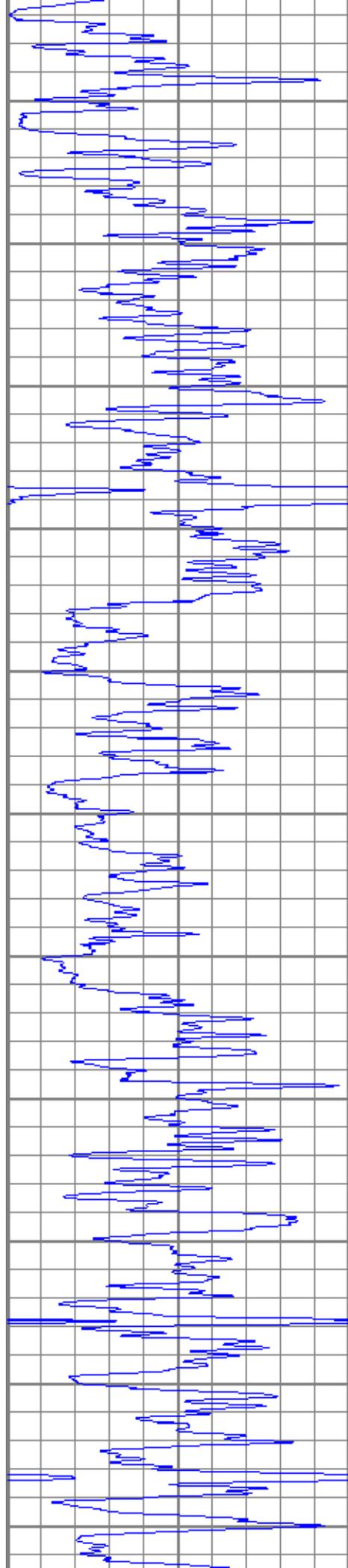
**Thanks for using Gemini Wireline LLC
785-625-1182**

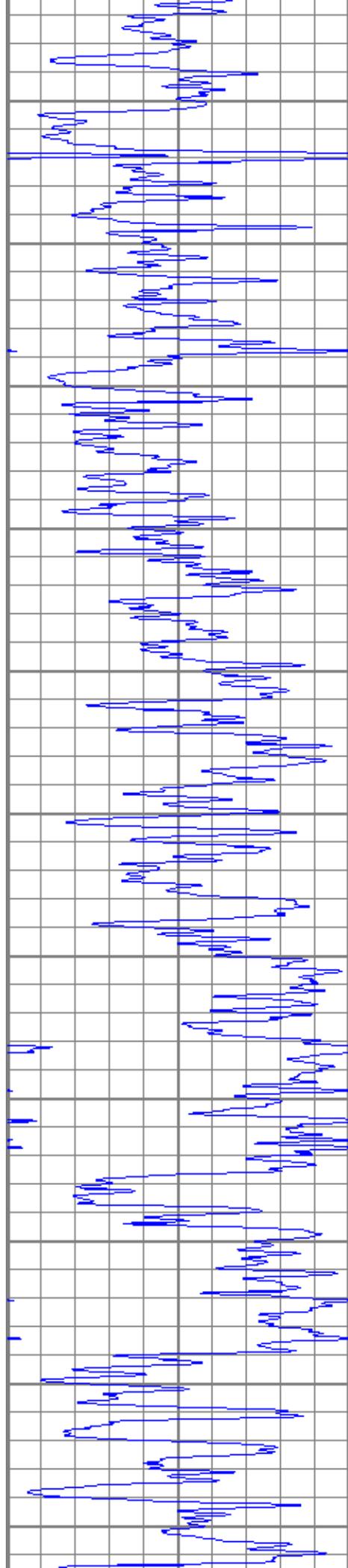
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Dataset Pathname	pass5.1
Presentation Format	kdillinn
Dataset Creation	Sat Aug 18 04:56:18 2018
Charted by	Depth in Feet scaled 1:600

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









1950

2000

2050

2100

2150

2200

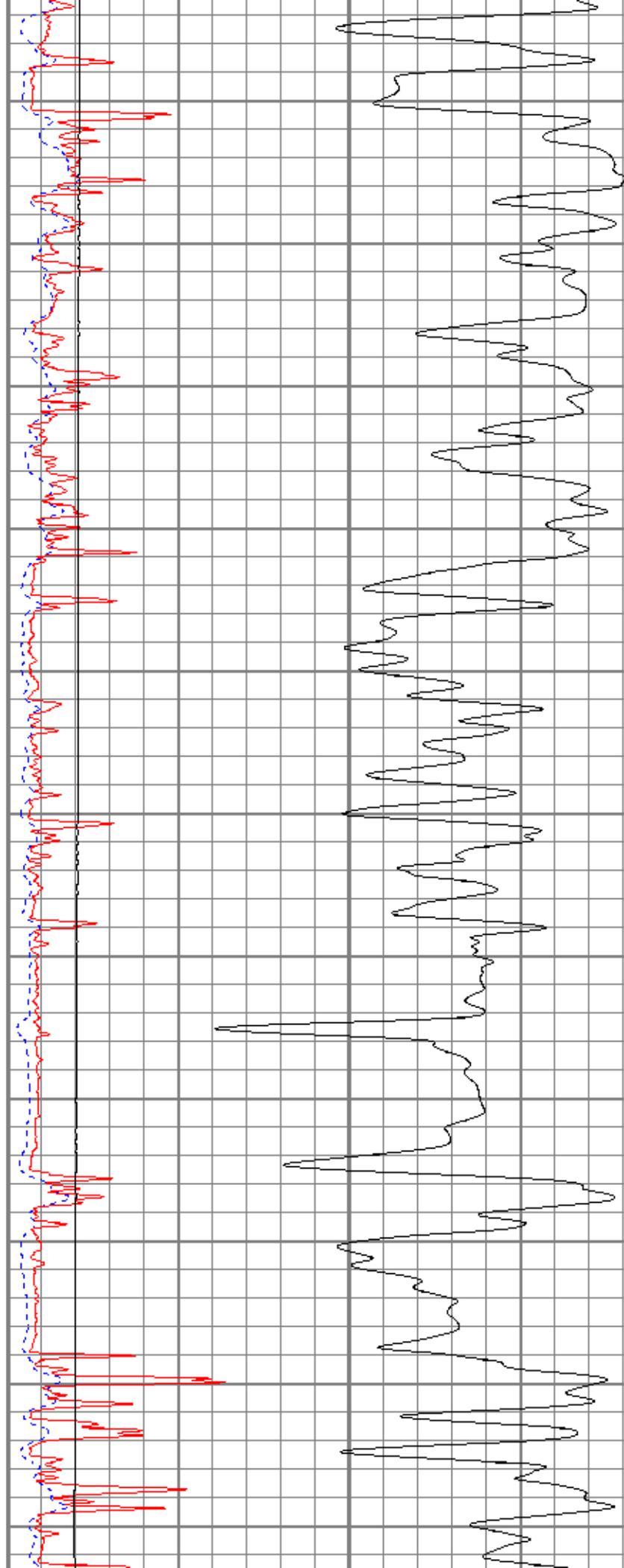
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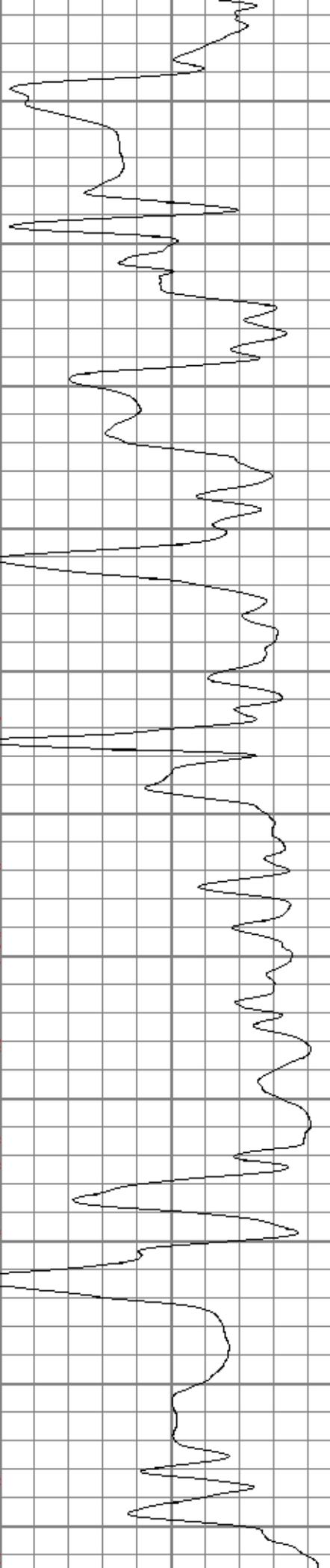
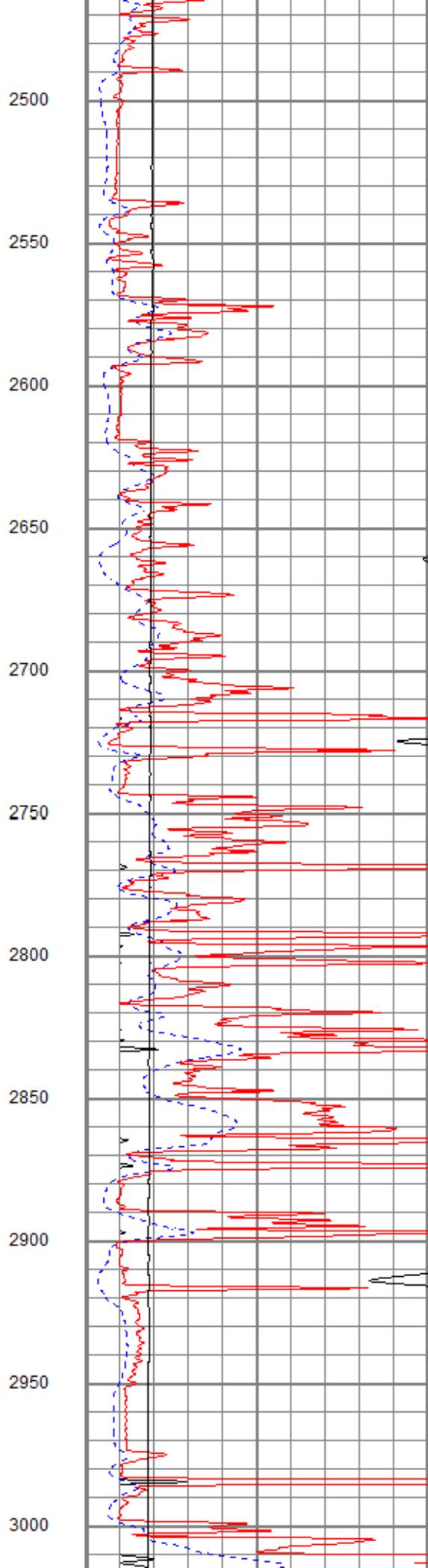
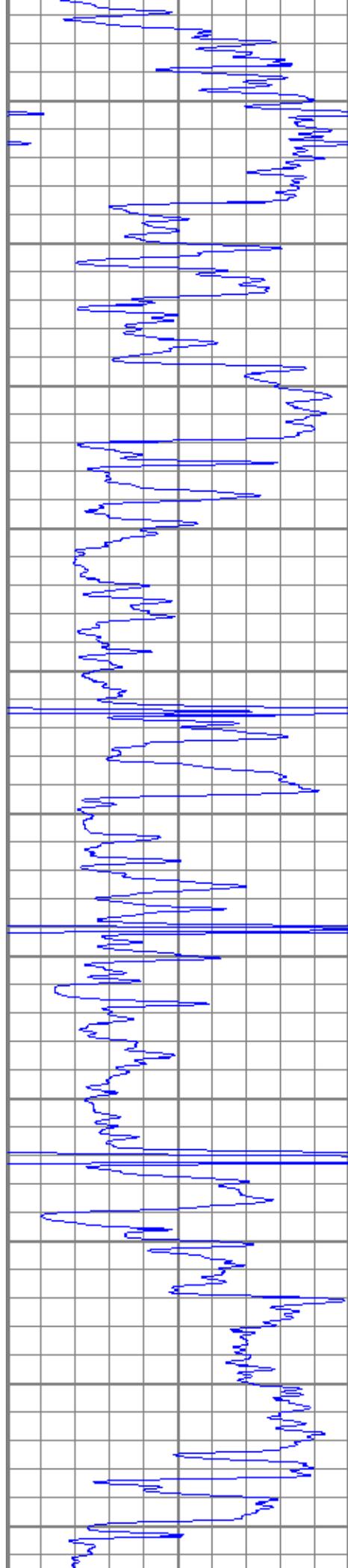
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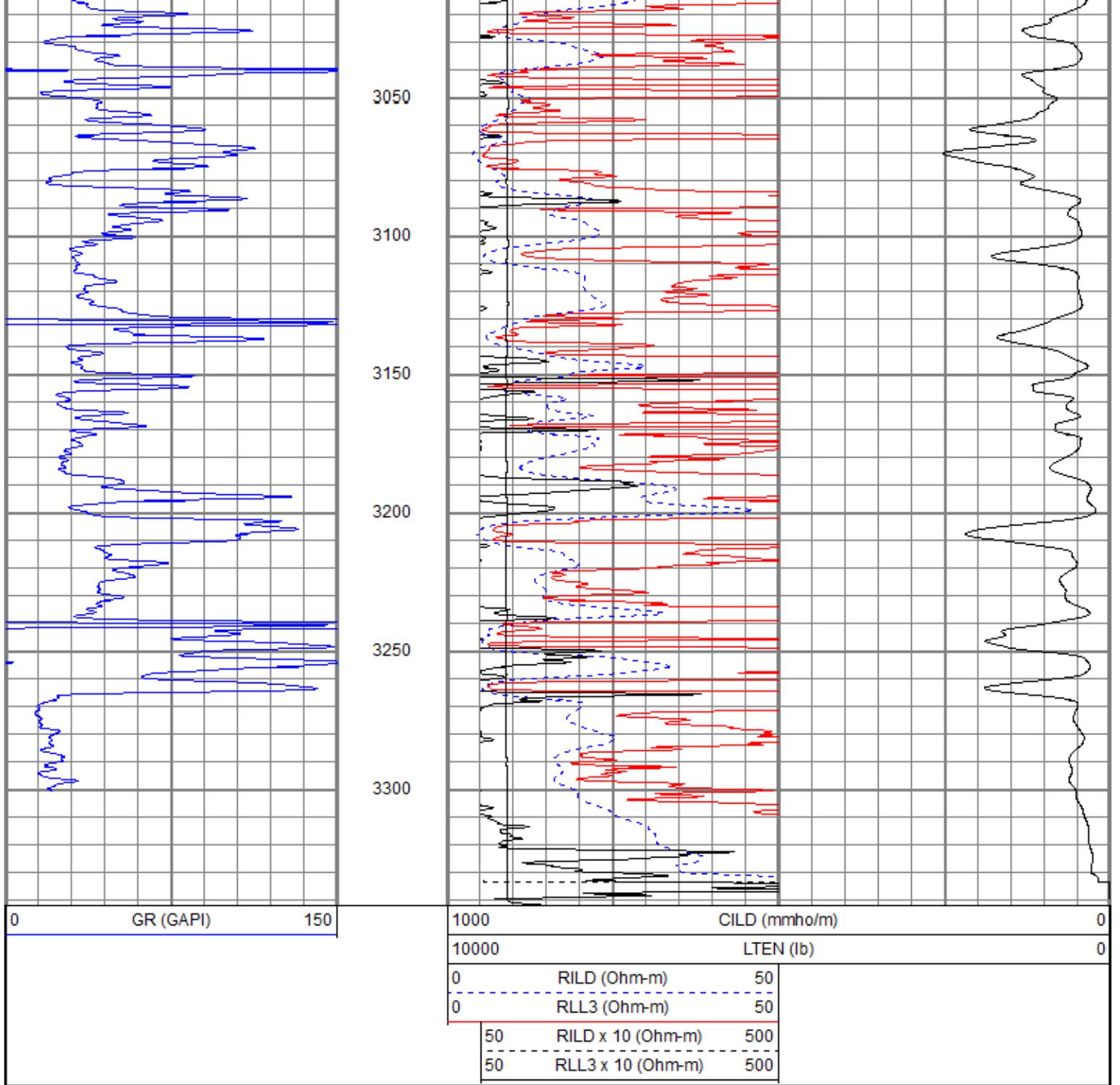
2350

2400

2450

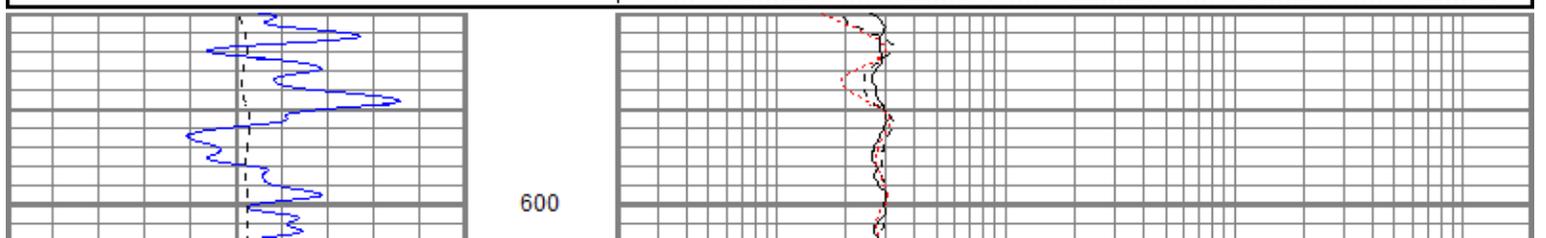


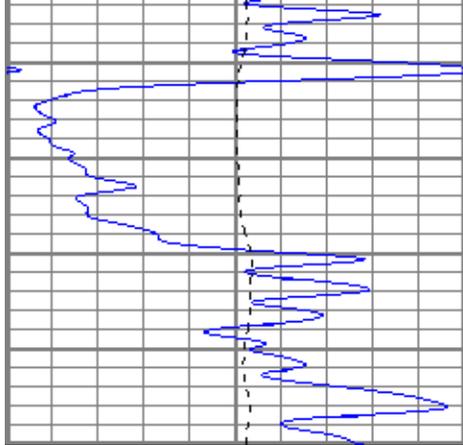




Database File aobradleyunit#1owwo.db
 Dataset Pathname pass5.1
 Presentation Format kdil
 Dataset Creation Sat Aug 18 04:56:18 2018
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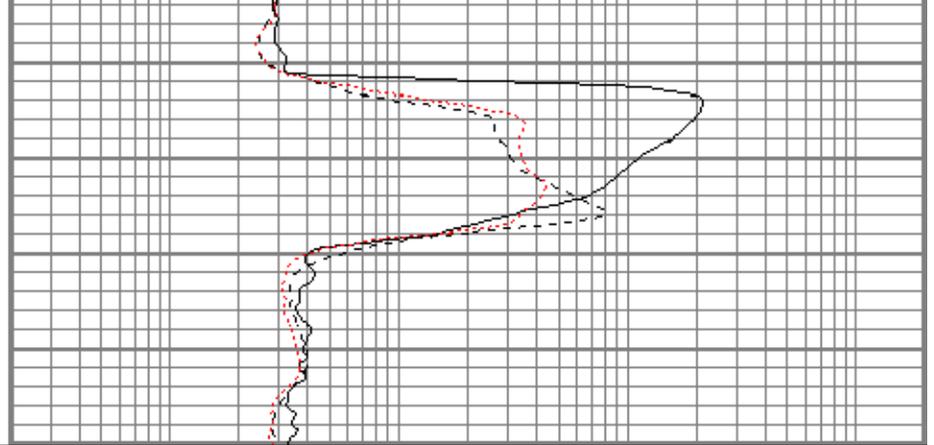
0	GR (GAPI)	150	0.2	RILD (Ohm-m)	2000
-100	SP (mV)	100	0.2	RLL3 (Ohm-m)	2000
			0.2	RILM (Ohm-m)	2000





650

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

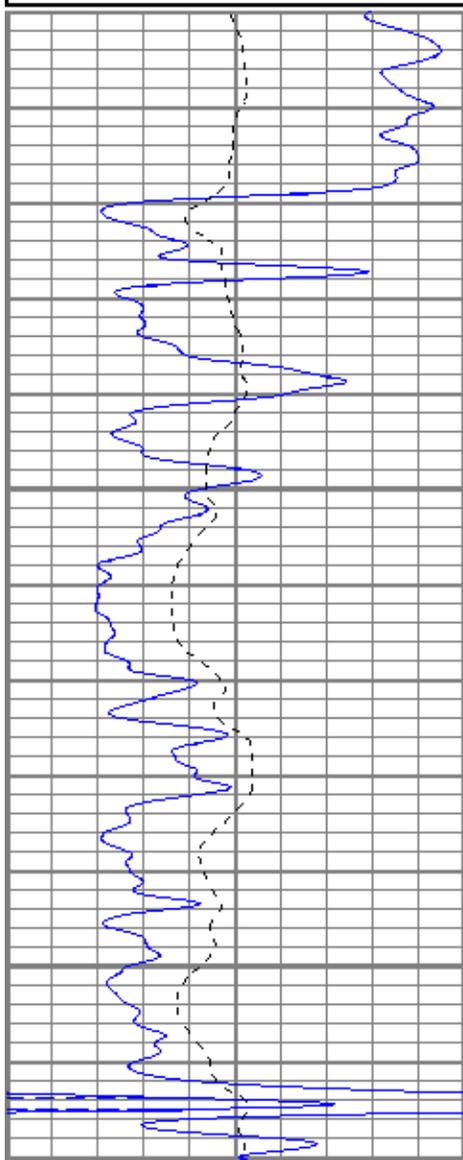


0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000

Database File aobradleyunit#1owwo.db
 Dataset Pathname pass5.1
 Presentation Format kdil
 Dataset Creation Sat Aug 18 04:56:18 2018
 Charted by Depth in Feet scaled 1:240

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

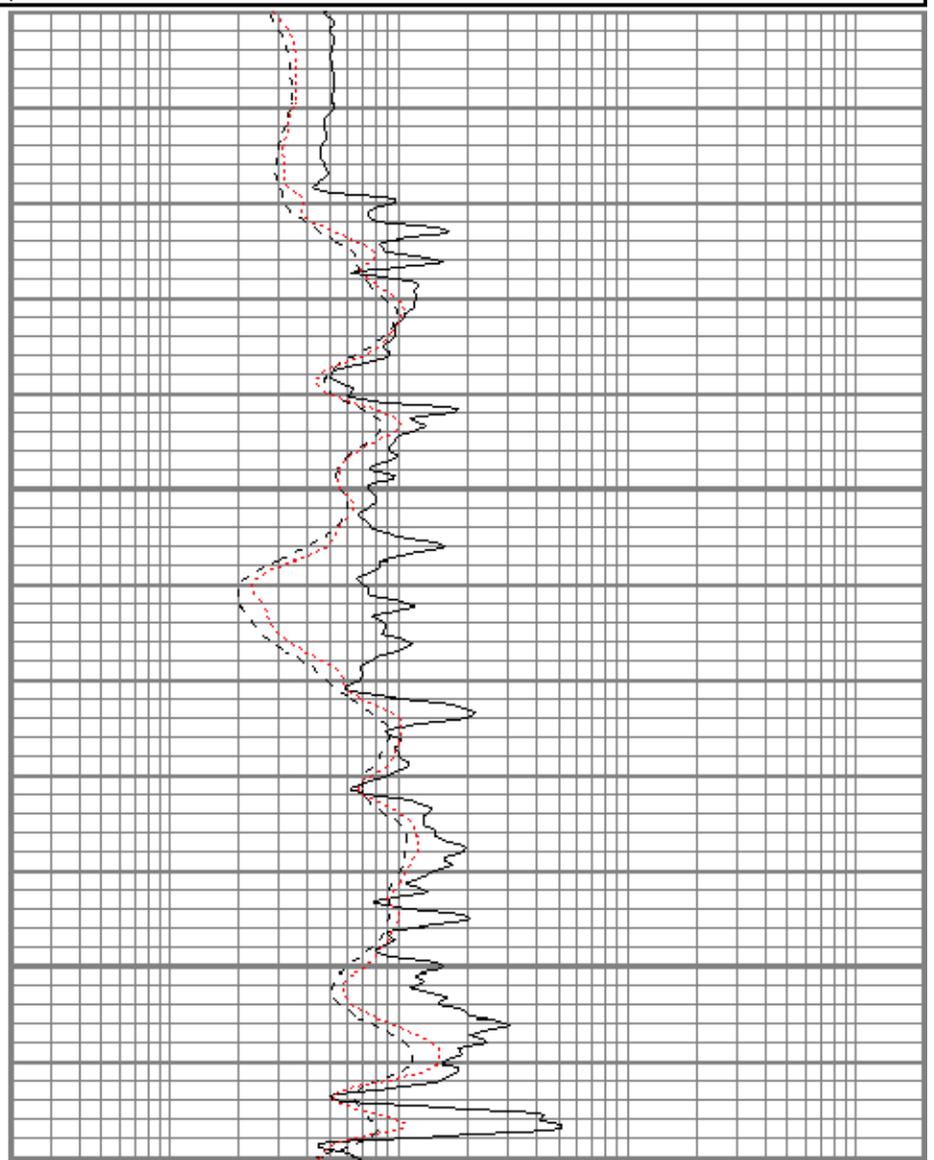
0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000

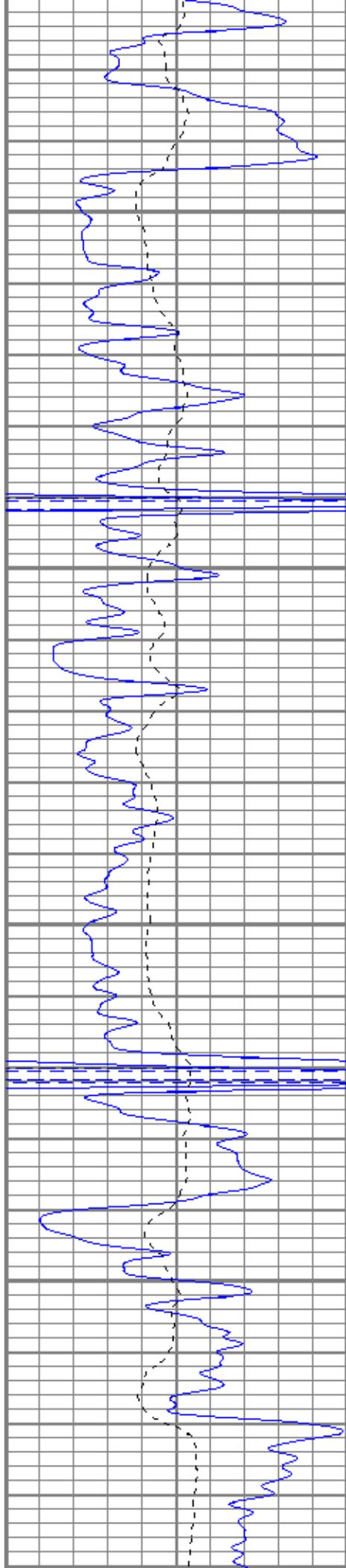


2000

2650

2700



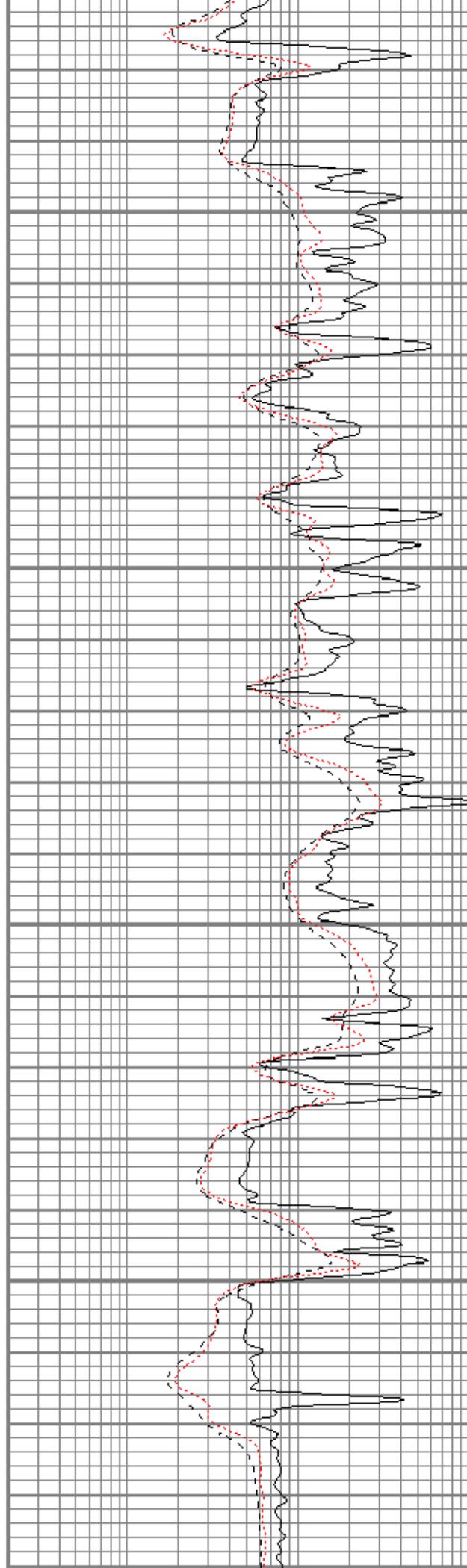


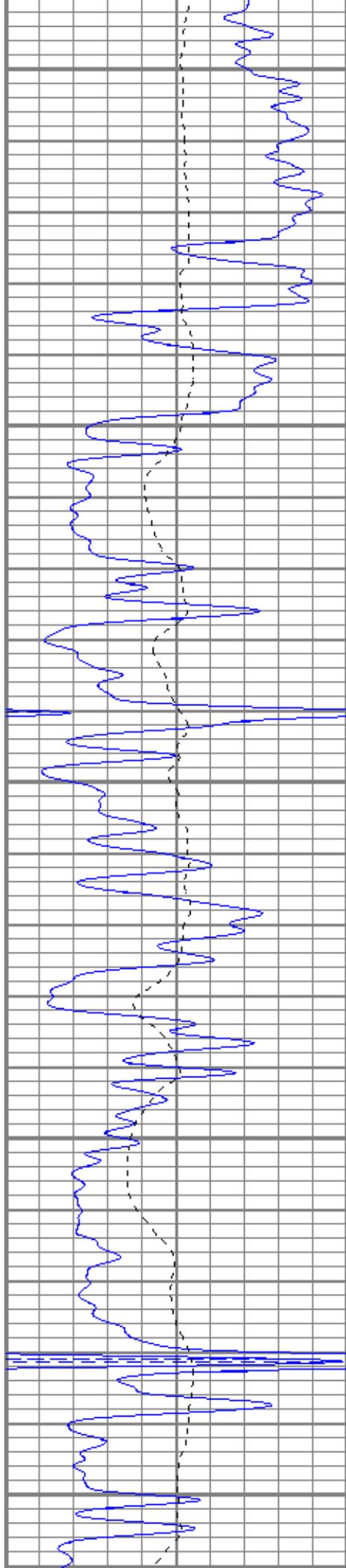
2750

2800

2850

2900





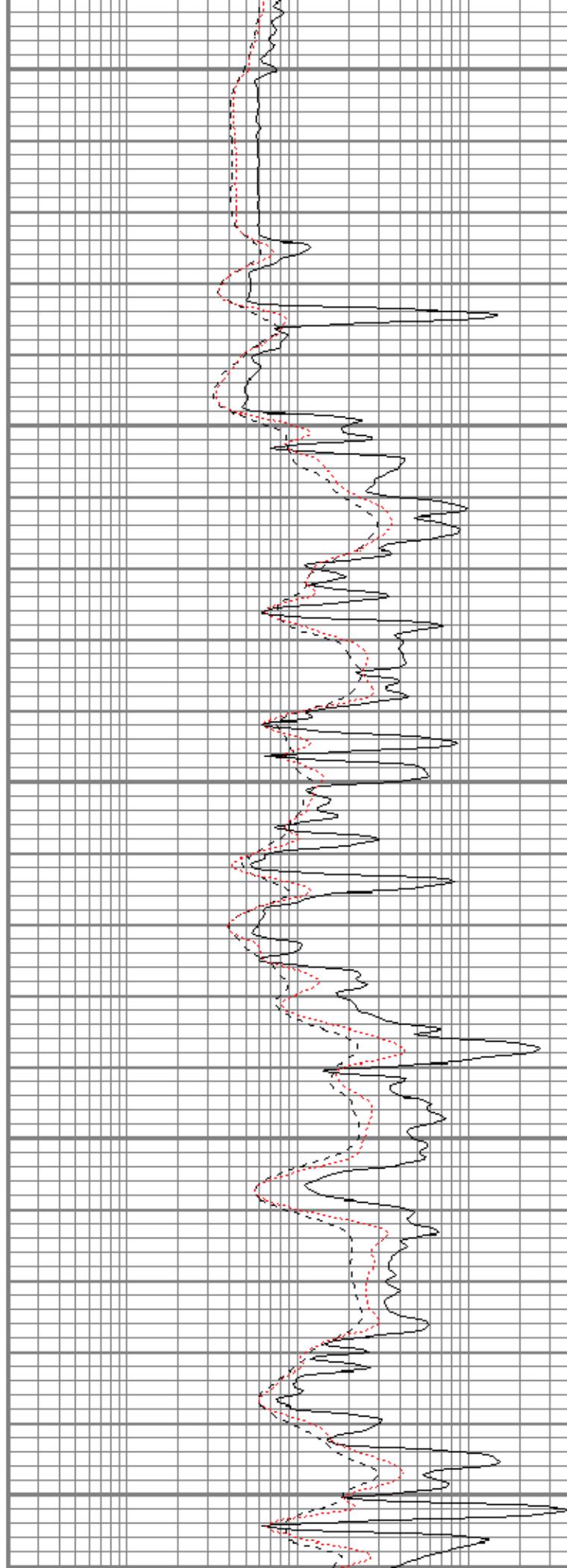
2950

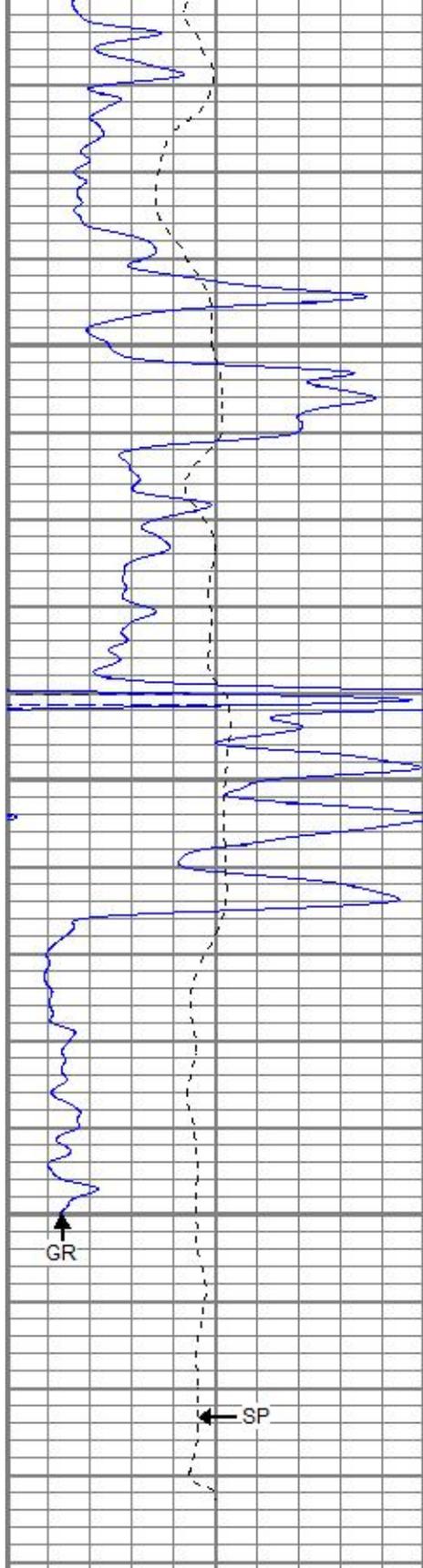
3000

3050

3100

3150





3200

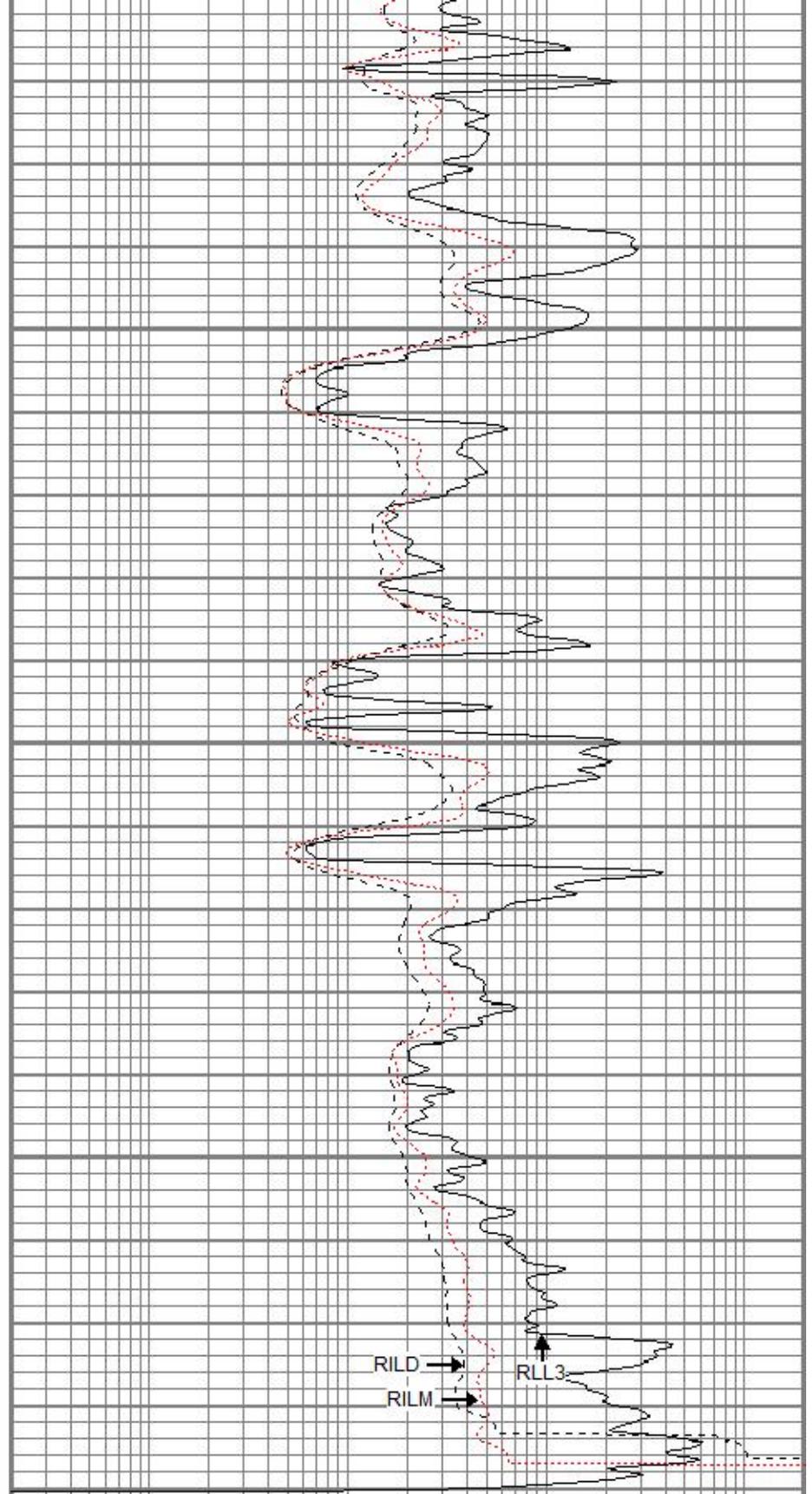
3250

3300

GR

SP

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



RILD

RILM

RLL3

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

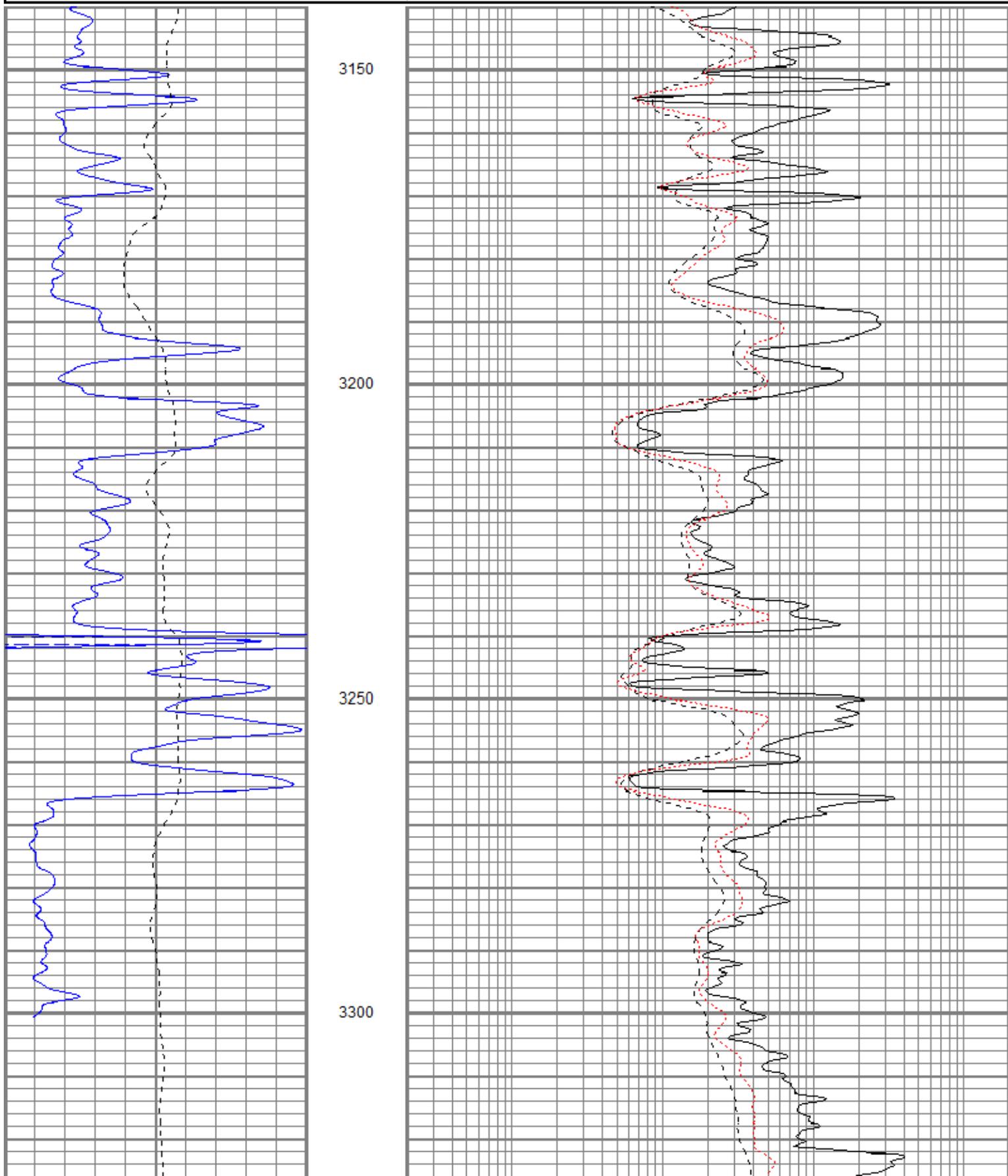


REPEAT SECTION

Database File aobradleyunit#1owwo.db
 Dataset Pathname pass4.2
 Presentation Format kdil
 Dataset Creation Sat Aug 18 04:53:56 2018
 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



0	GR (GAPI)	150	0.2	RILD (Ohm-m)	2000
-100	SP (mV)	100	0.2	RLL3 (Ohm-m)	2000
			0.2	RILM (Ohm-m)	2000

Calibration Report

Database File aobradleyunit#1owwo.db
 Dataset Pathname pass5.1
 Dataset Creation Sat Aug 18 04:56:18 2018

Dual Induction Calibration Report

Serial-Model: 1989-ADM
 Surface Cal Performed: Wed Jun 06 19:34:10 2018
 Downhole Cal Performed: Wed Jun 06 19:34:10 2018
 After Survey Verification Performed: Wed Jun 06 19:34:10 2018

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	-0.012	0.665	V	0.000	350.000	mmho/m	516.748	6.134
Medium	-0.013	0.752	V	0.000	400.000	mmho/m	522.482	6.987
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	-0.011	0.668	V	0.000	350.000	mmho/m	515.730	5.704
Medium	-0.015	0.752	V	0.000	550.000	mmho/m	716.653	10.787

Downhole Calibration

Internal:	Readings			References			Results	
	Zero	Cal		Zero	Cal		m	b
Deep	0.000	0.000	mmho/m	0.419	351.110	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	-0.877	400.105	mmho/m	1.000	0.000
Shallow	2.502	0.040	V	500.000	2.000	Ohm-m	190.000	-2.126

After Survey Verification

Internal:	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.000	0.000	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	1.000	0.000
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

Neutron Calibration Report

Serial Number: 2017
 Tool Model: lithogearhart
 Performed: (Not Performed)

Calibrator Value: 1 NAPI

Calibrator Reading: 1 cps

Sensitivity: 1 NAPI/cps

Temperature Calibration Report

Serial Number: WithOutMC
 Tool Model: WOMC
 Performed: (Not Performed)

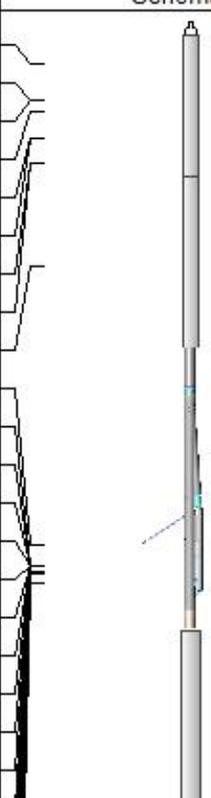
	Reference	Reading
Low Reference:	0.00 degF	0.00 degF
High Reference:	1.00 degF	1.00 degF
Gain:	1.00	
Offset:	0.00	
Delta Spacing	1	

Inclinometer Calibration Report

Performed:	Wed Dec 06 22:31:06 2017				
	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

Gamma Ray Calibration Report

Serial Number:	WithOutMC		
Tool Model:	WOMC		
Performed:	Wed Dec 06 22:30:58 2017		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	1.0000	GAPI/cps	

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	38.31		CHD-STD	0.50	1.69	1.00
ACCY	37.15		ADT-WOMC (WithOutMC) Telemetry Without Mud Cell	4.58	3.50	120.00
ACCX	37.15					
SSTAT	36.73					
PSTAT	35.90					
ASTAT	35.90					
GRD	35.06		NEU-lithogearhart (2017)	5.65	3.50	85.00
TEMP	35.06					
NEU	31.70					
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		DIL-ADM (1989) Dual Induction	19.71	4.00	300.00
SS7	21.67					
SS6	21.67					
SS5	21.67					
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					
RLL3	1.70					
TR_Mon	0.00					