



**DUAL  
INDUCTION  
LOG**

Company American Oil LLC.  
Well Beach A #2  
Field Bemis-Shutts  
County Ellis  
State Kansas

Company American Oil LLC.  
Well Beach A #2  
Field Bemis-Shutts  
County Ellis State Kansas

Location: 2278' FNL & 913' FEL  
API #: 15 051 26917  
SEC 21 TWP 11S RGE 17W  
Permanent Datum Ground Level Elevation 1837'  
Log Measured From KB 8' AGL  
Drilling Measured From KB  
Elevation K.B. 1845'  
D.F. 1844'  
G.L. 1837'

Date	6-11-18		
Run Number	One		
Depth Driller	3440'		
Depth Logger	3441'		
Bottom Logged Interval	3439'		
Top Log Interval	950'		
Casing Driller	8 5/8" @ 978'		
Casing Logger	978'		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical		
Density / Viscosity	9.1/48		
PH / Fluid Loss	10/8		
Source of Sample	Pit		
Rm @ Meas. Temp	1.0 @ 82 degf		
Rmf @ Meas. Temp	.8 @ 82 degf		
Rmc @ Meas. Temp	1.28 @ 82 degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	0.74 @ 111 degf		
Time Circulation Stopped	9:00 a.m		
Time Logger on Bottom	11:20 a.m		
Maximum Recorded Temperature	111 degf		
Equipment Number	T127		
Location	Hays, KS.		
Recorded By	Casey P.		
Witnessed By	Mr. Austin Klaus	Mr. Zach Patterson	

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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**

North Hays on 183 Hwy to Saline River Rd., Then E 5.6 mi on Saline River Rd. to 310th Ave., Then South on 310th Ave approximately 1.6 mi. in Open Range, W into Location

Thanks for using Gemini Wireline LLC  
785-625-1182



**MAIN PASS**

Database File aobeacha2oh.db  
 Dataset Pathname Bemis-Shutts/Beach\_A\_#2/run1/pass2.1  
 Presentation Format kdi11nn  
 Dataset Creation Mon Jun 11 12:17:24 2018  
 Charted by Depth in Feet scaled 1:600

0 GR (GAPI) 150

1000 CILD (mmho/m) 0

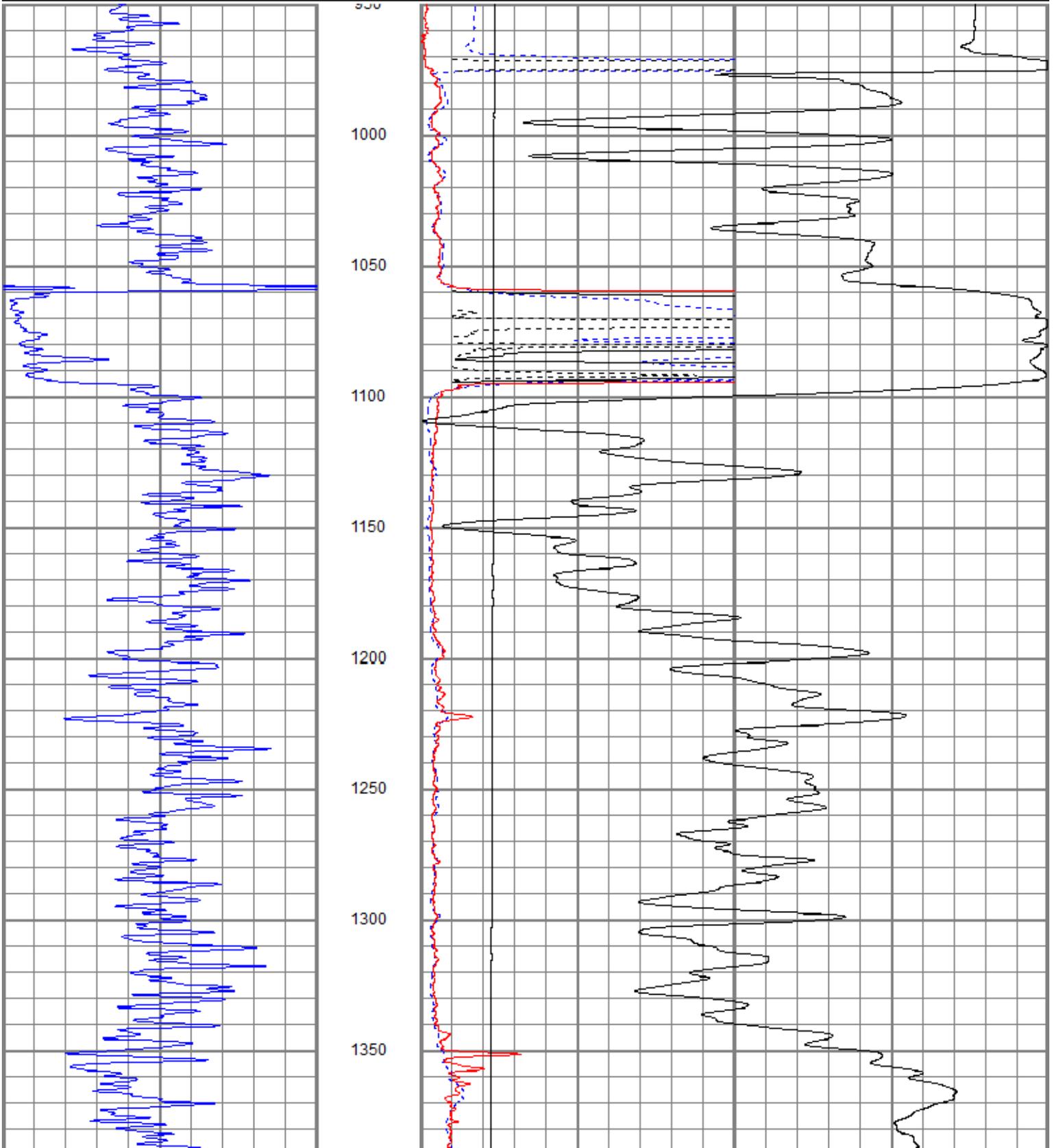
10000 LTEN (lb) 0

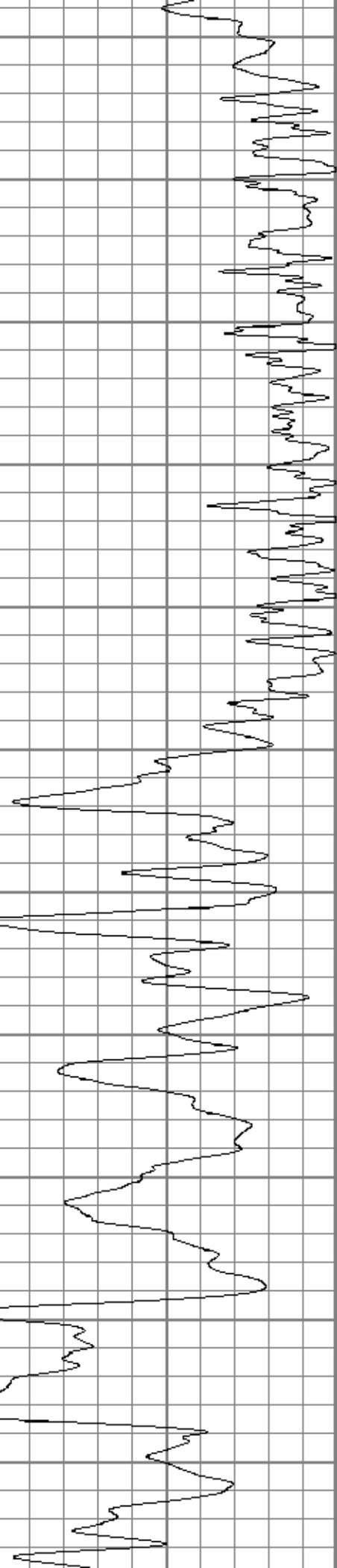
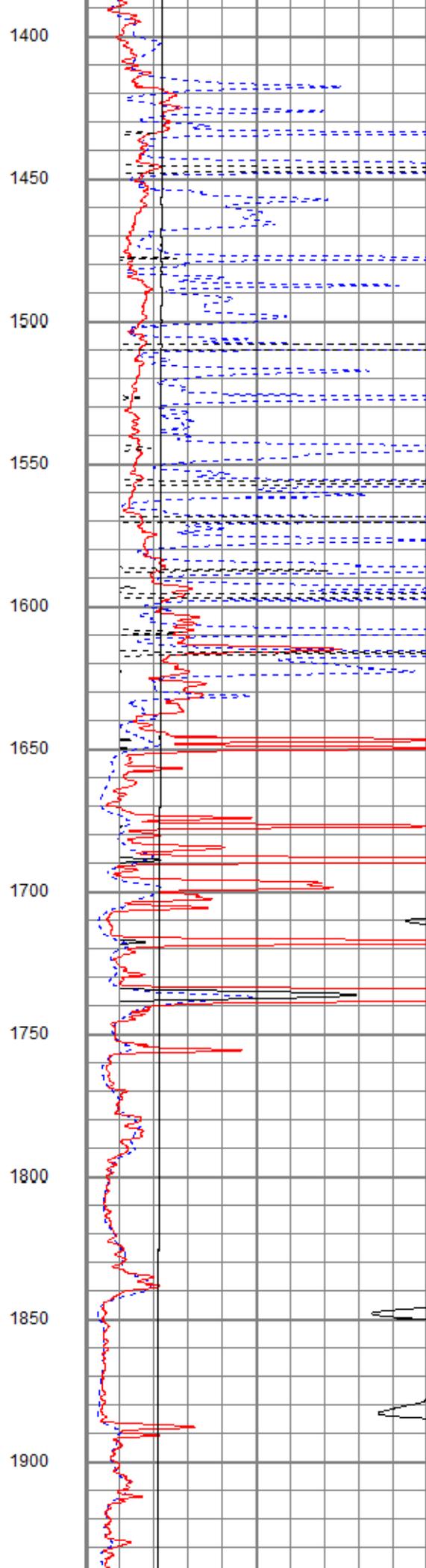
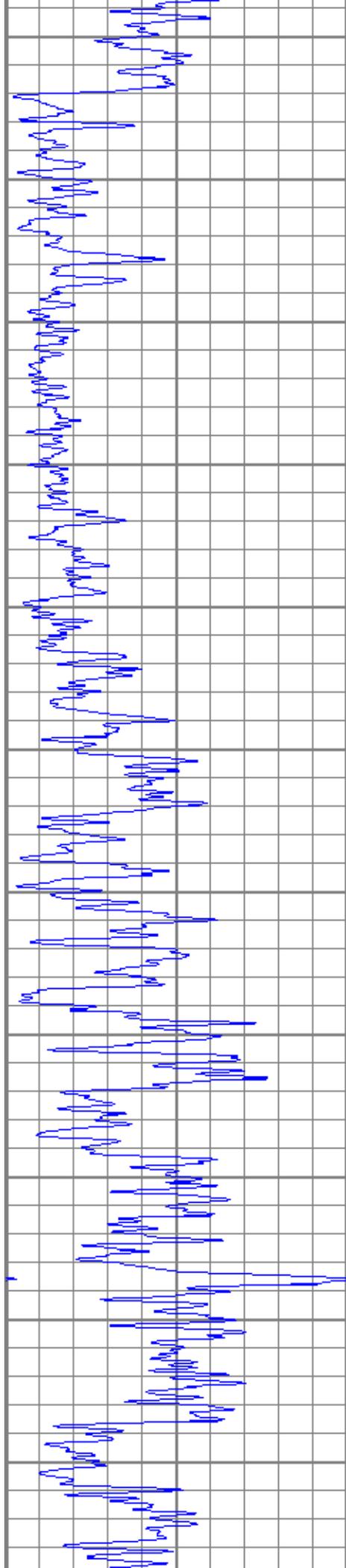
0 RILD (Ohm-m) 50

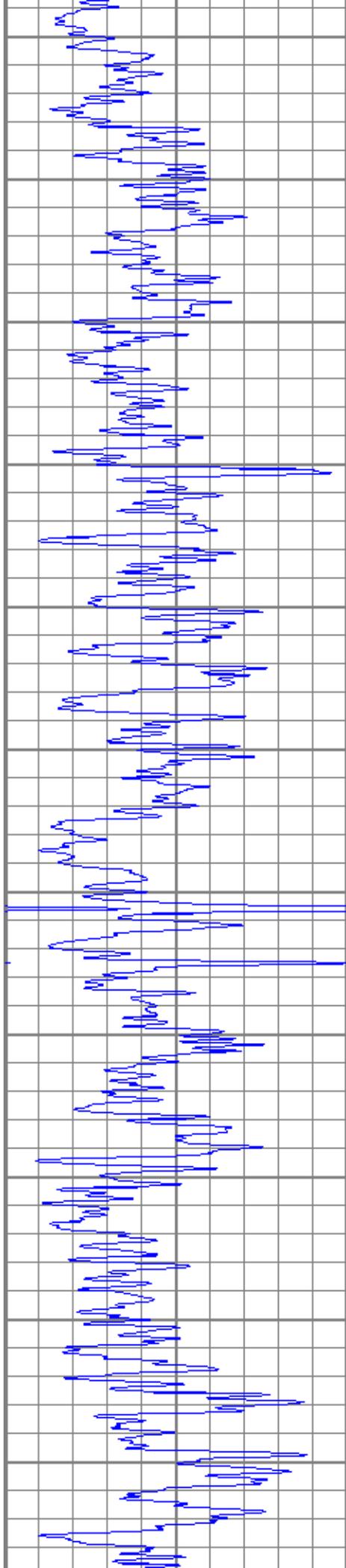
0 RLL3 (Ohm-m) 50

50 RILD x 10 (Ohm-m) 500

50 RLL3 x 10 (Ohm-m) 500







1950

2000

2050

2100

2150

2200

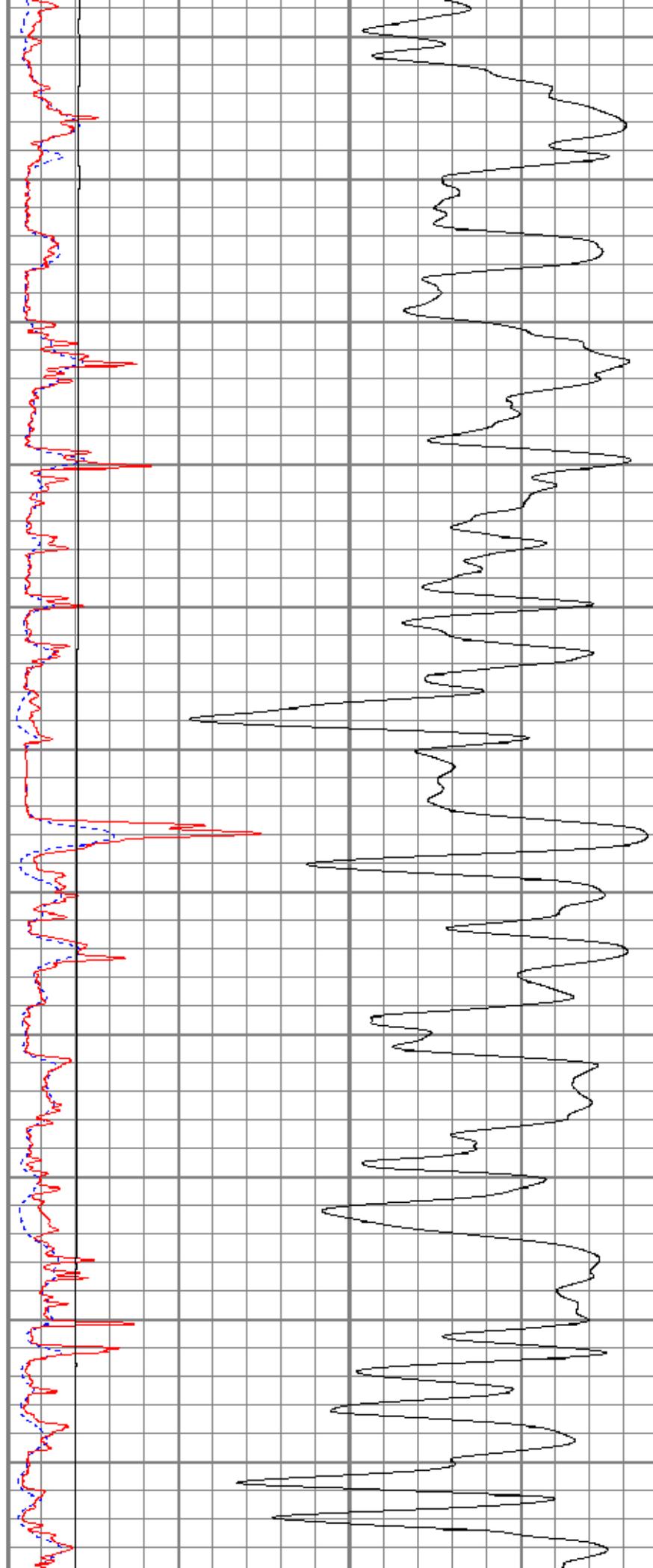
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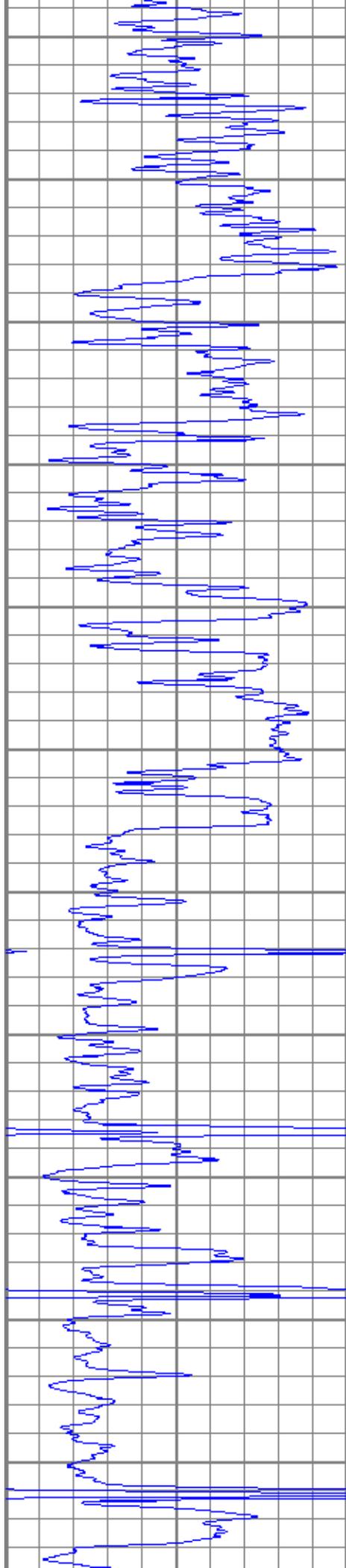
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2350

2400

2450





2500

2550

2600

2650

2700

2750

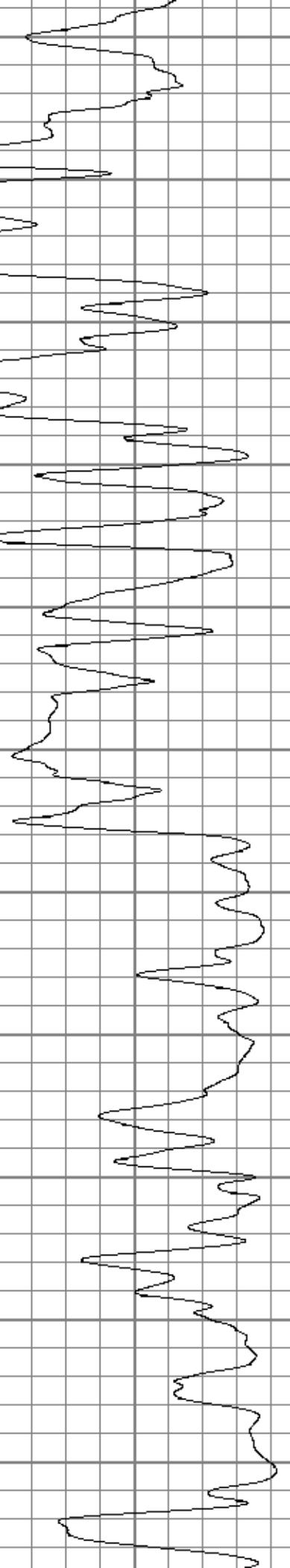
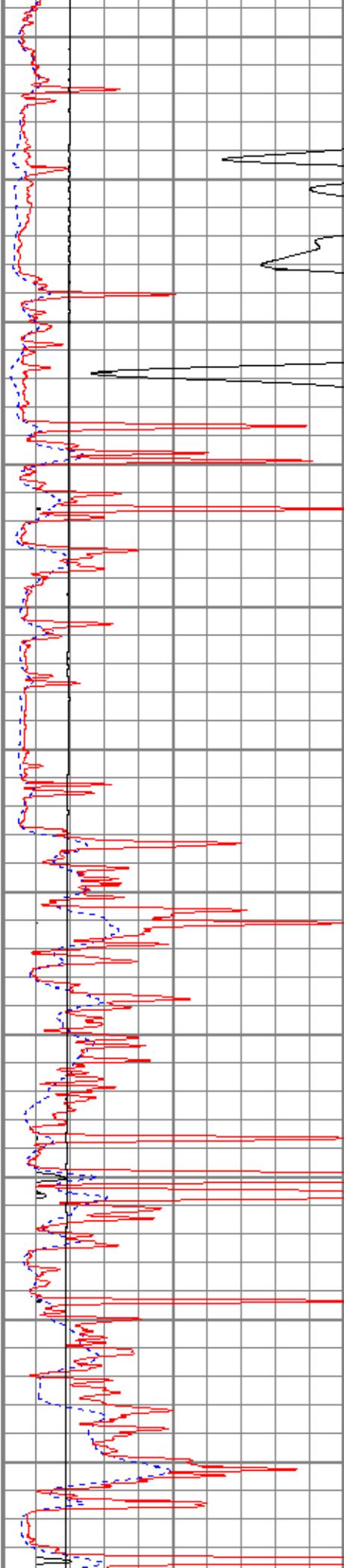
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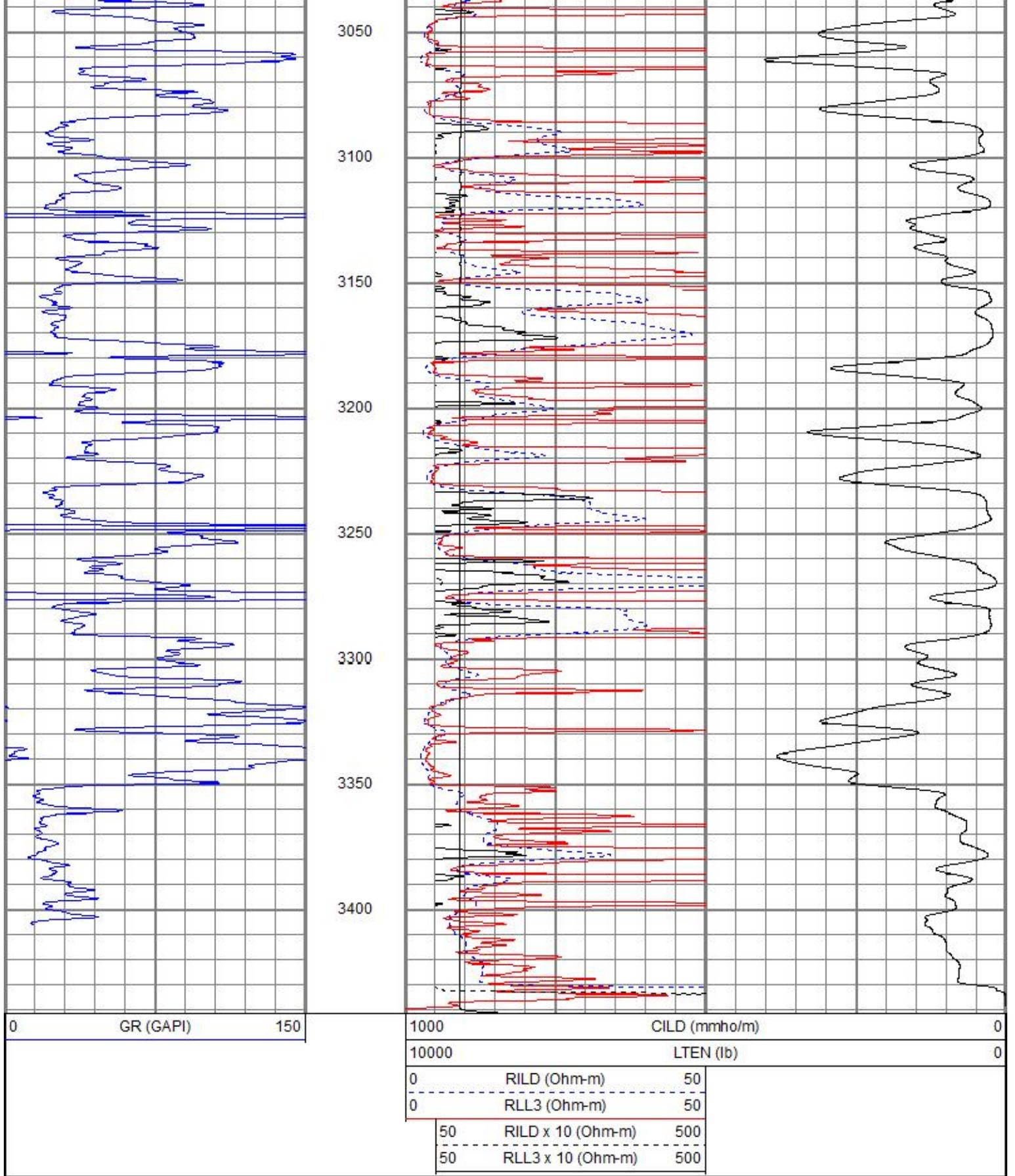
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2900

2950

3000

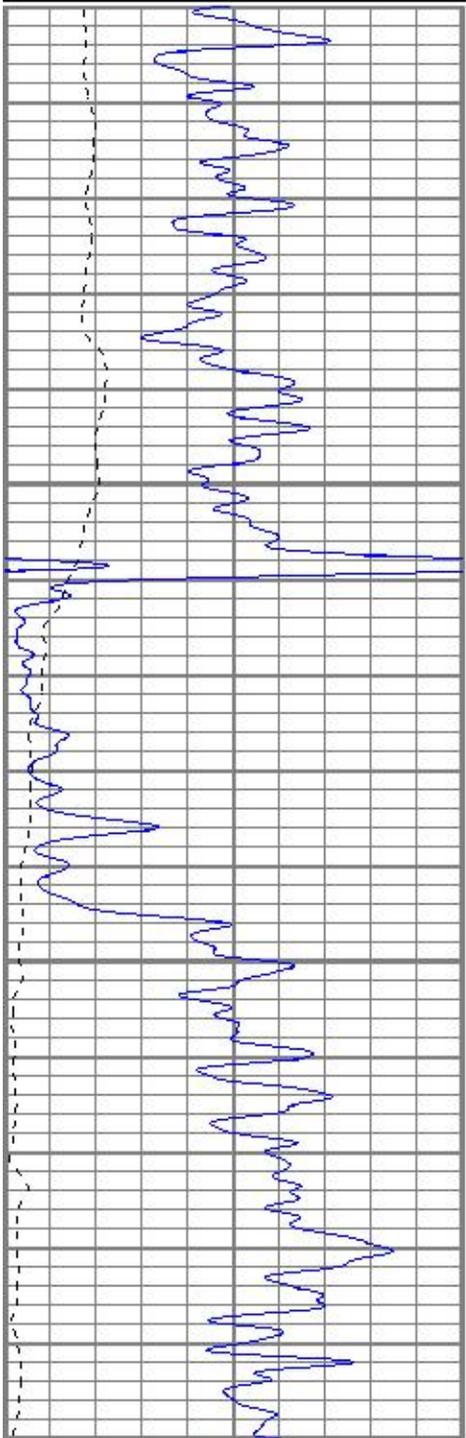




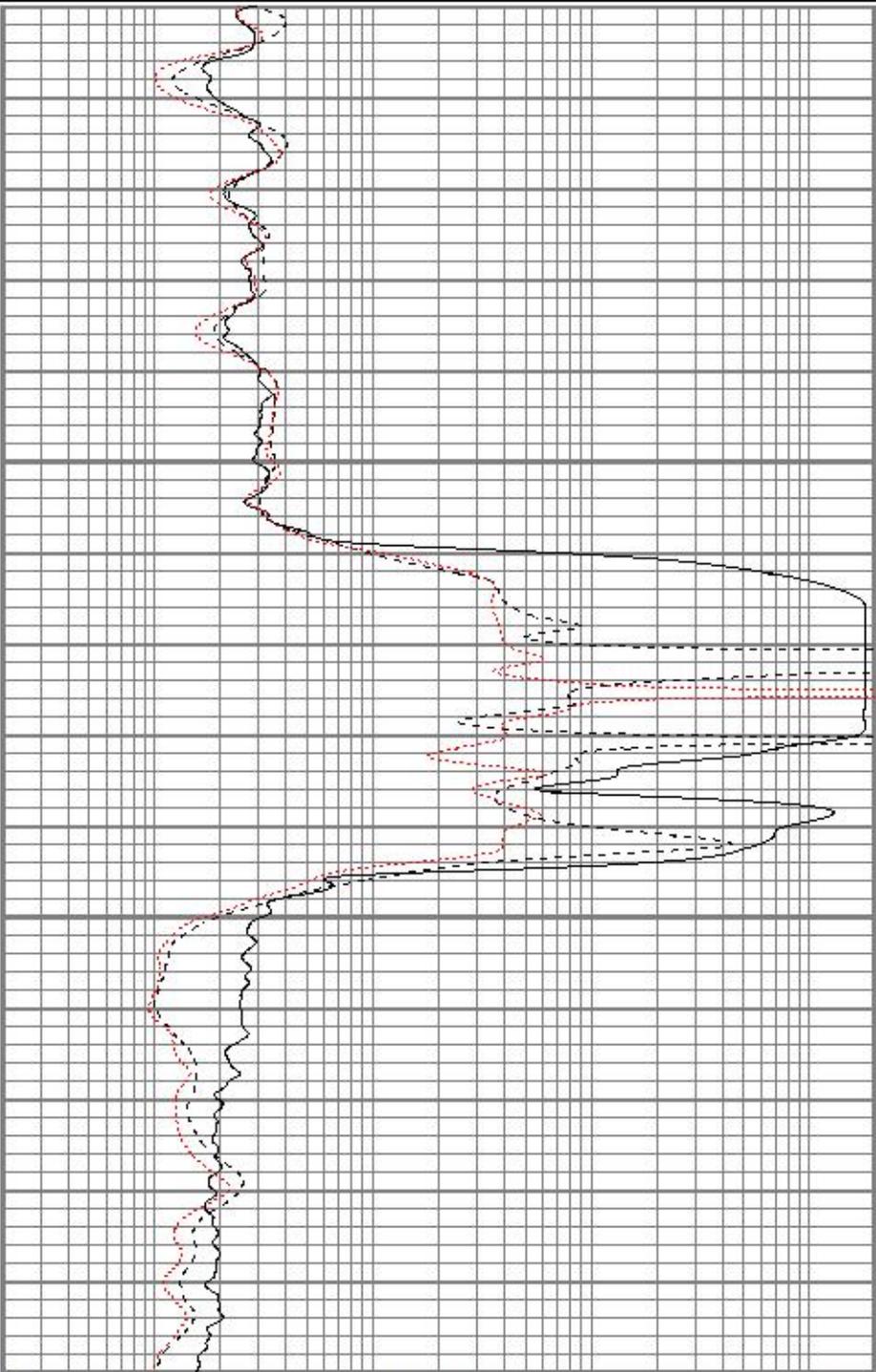
# MAIN PASS

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



1000  
1050  
1100  
1150



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

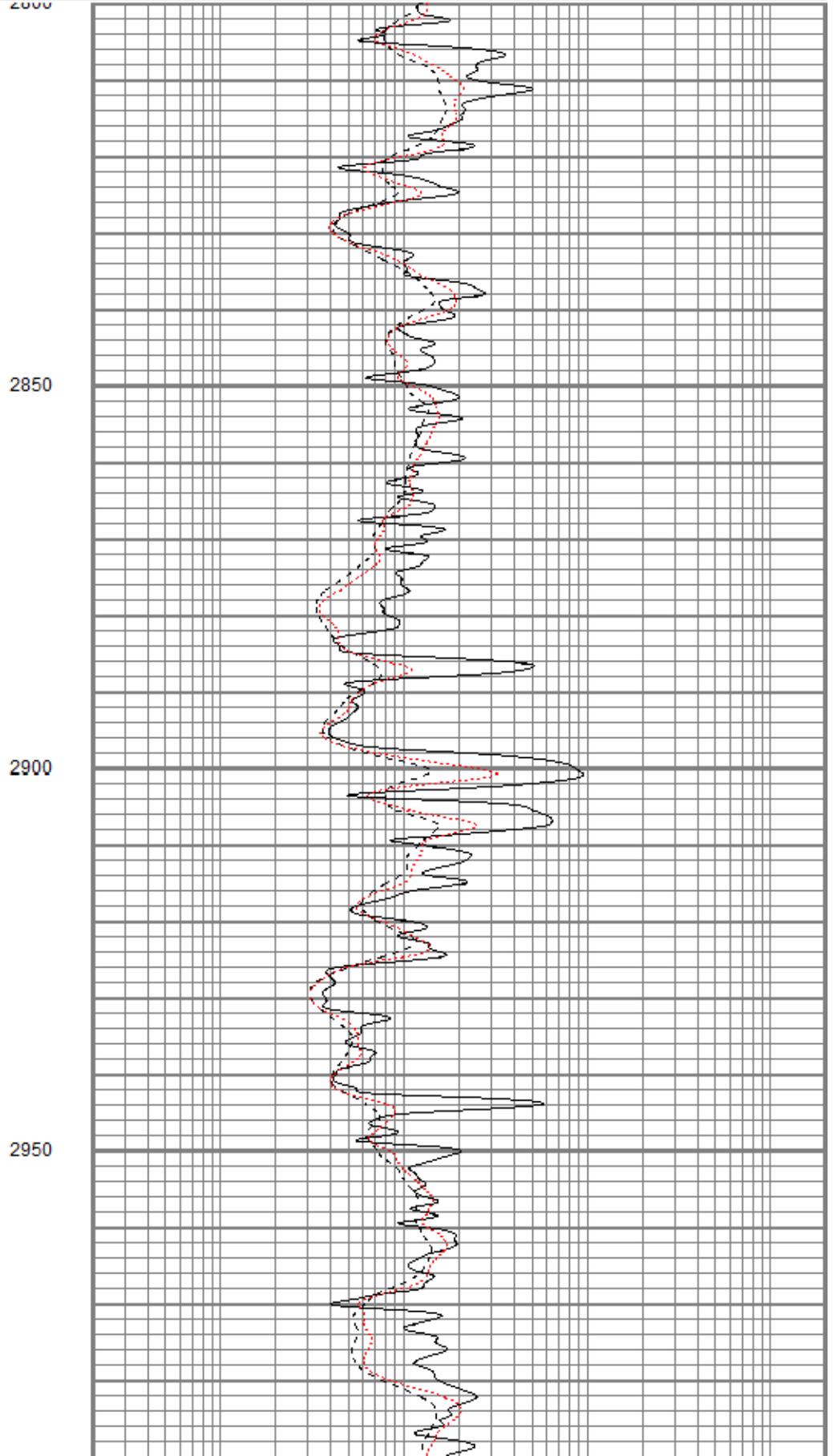
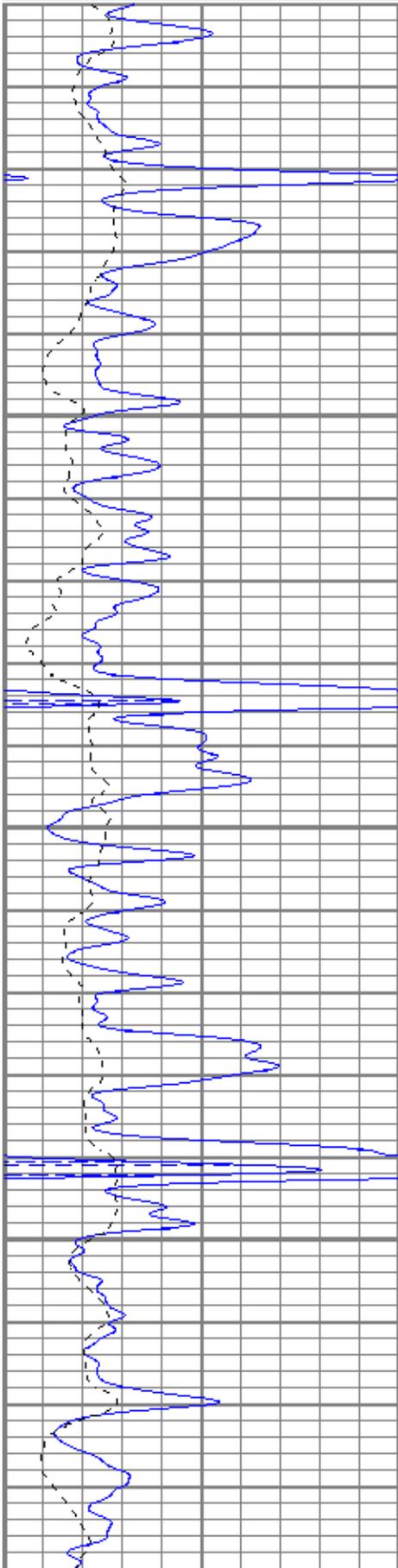


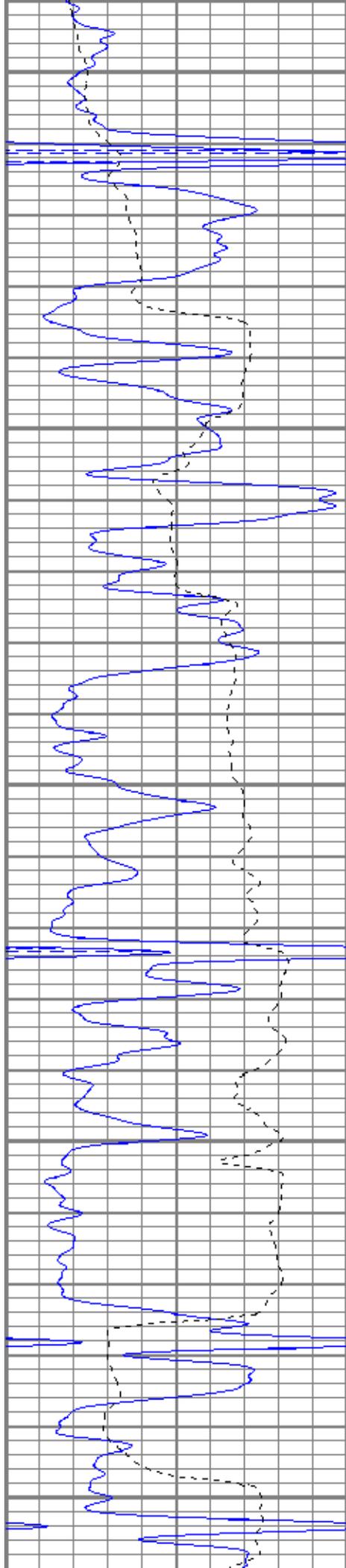
# MAIN PASS

Dataset Pathname Bemis-Shutts/Beach\_A\_#2/run1/pass2.1  
Presentation Format kdil  
Dataset Creation Mon Jun 11 12:17:24 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





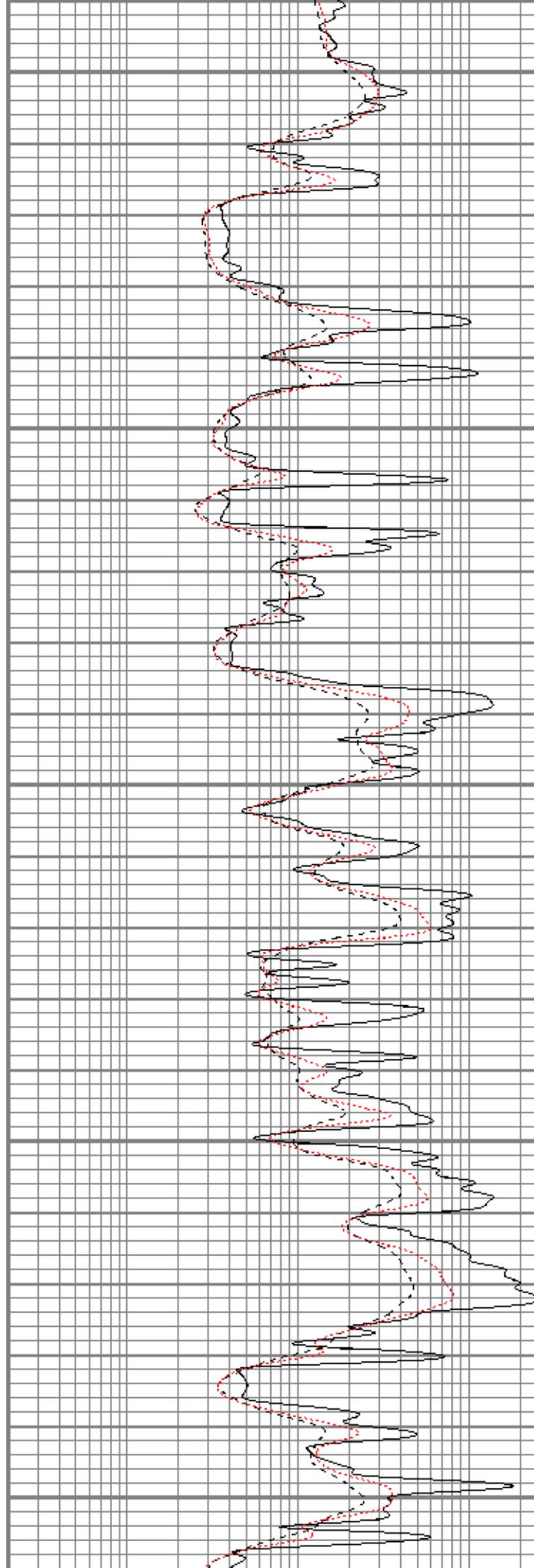
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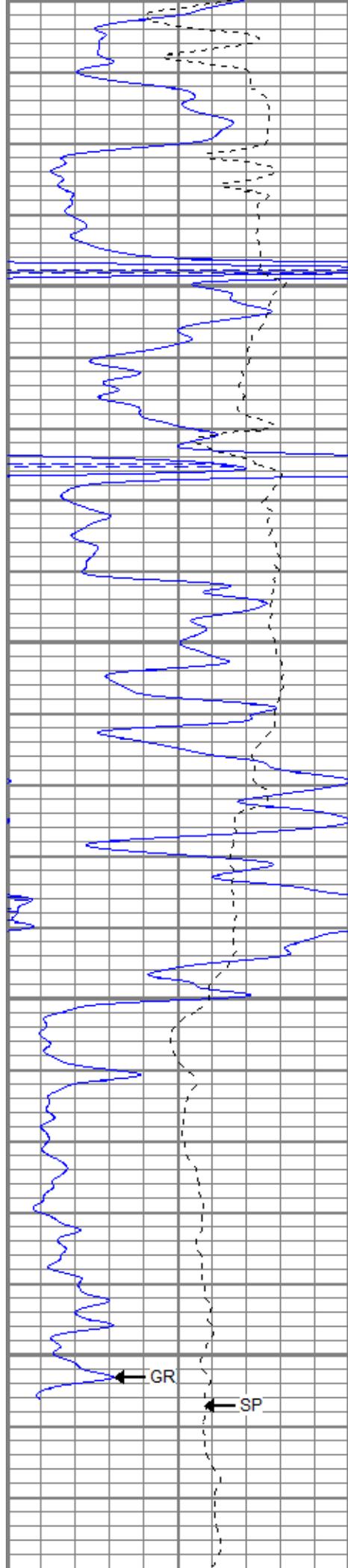
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3100

3150

3200





3250

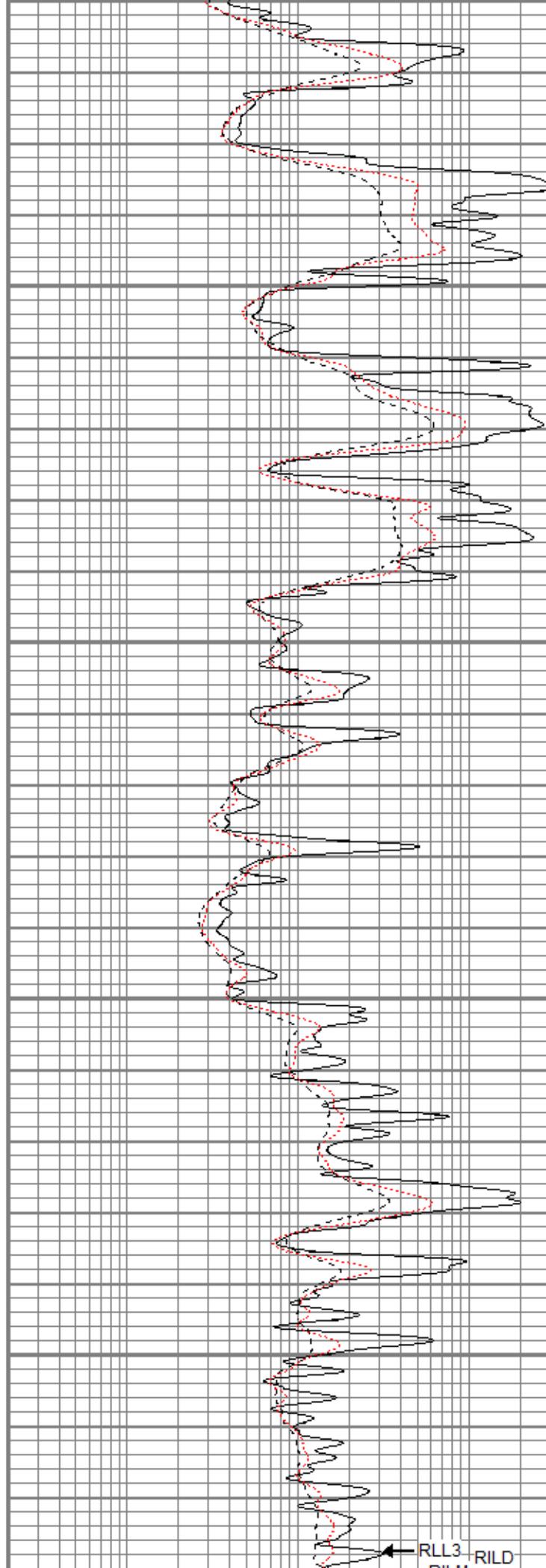
3300

3350

3400

GR

SP



RLL3-RILD

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

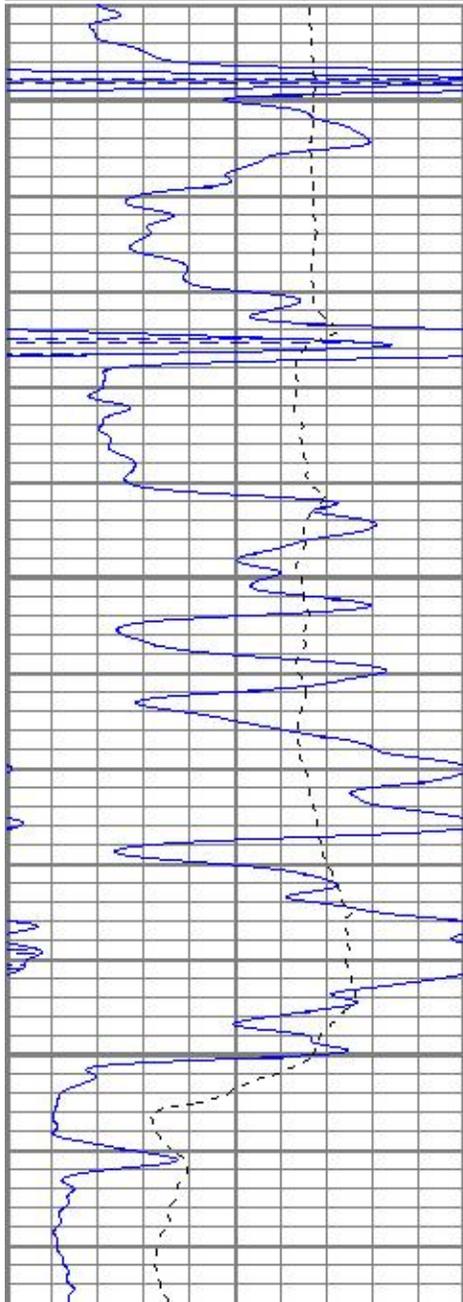


# REPEAT SECTION

Database File: aobeacha2oh.db  
 Dataset Pathname: Bemis-Shutts/Beach\_A\_#2/run1/pass1.1  
 Presentation Format: kdil  
 Dataset Creation: Mon Jun 11 12:02:20 2018  
 Charted by: Depth in Feet scaled 1:240

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

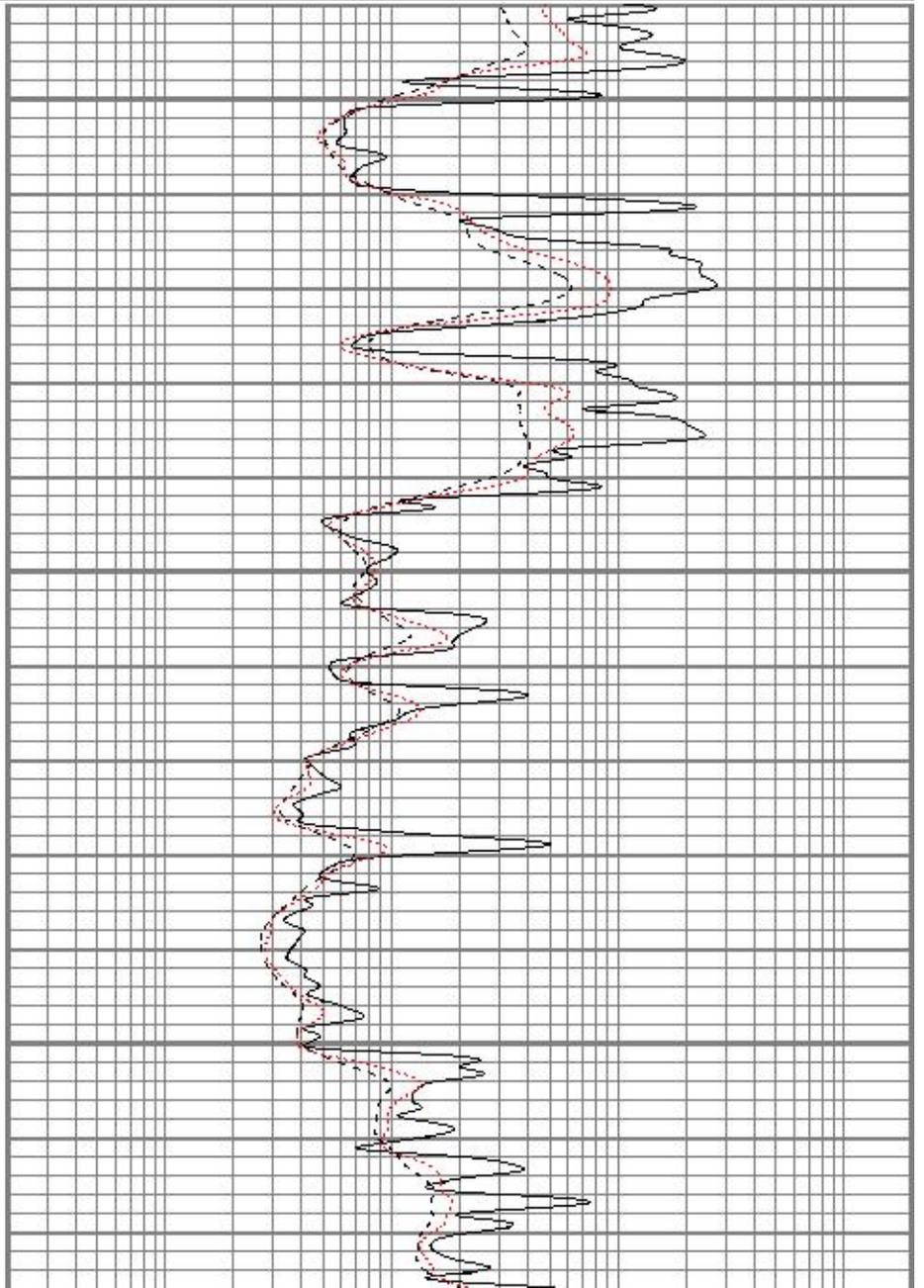
0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000

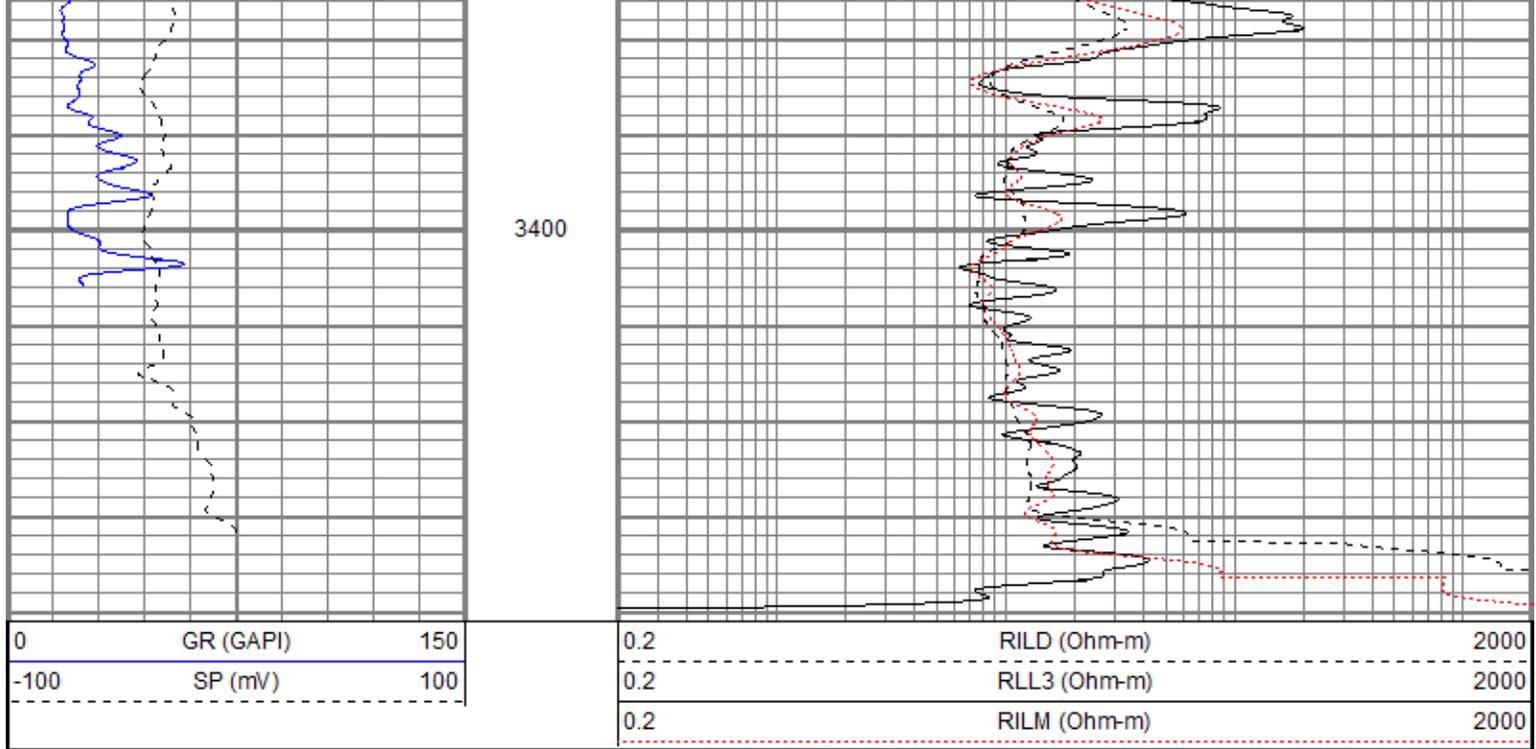


3250

3300

3350





### Calibration Report

Database File aobeacha2oh.db  
 Dataset Pathname Bemis-Shutts/Beach\_A\_#2/run1/pass2.1  
 Dataset Creation Mon Jun 11 12:17:24 2018

### Dual Induction Calibration Report

Serial-Model: 5375-G  
 Surface Cal Performed: Mon Jun 04 17:57:18 2018  
 Downhole Cal Performed: Mon Jun 04 17:57:18 2018  
 After Survey Verification Performed: Mon Jun 04 17:57:18 2018

#### Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	-0.002	0.655	V	0.000	350.000	mmho/m	532.190	1.293
Medium	0.011	0.730	V	0.000	400.000	mmho/m	555.870	-5.985
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	-0.002	0.654	V	0.000	350.000	mmho/m	532.823	1.314
Medium	0.011	0.731	V	0.000	550.000	mmho/m	763.357	-8.251

#### Downhole Calibration

Internal:	Readings			References			Results	
	Zero	Cal		Zero	Cal		m	b
Deep	0.000	0.000	mmho/m	-0.019	349.565	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	0.024	400.529	mmho/m	1.000	0.000
Shallow	2.433	0.017	V	500.000	2.000	Ohm-m	180.067	-0.524

#### 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



GR	32.57		GR-P2000 (2000)	3.67	3.25	40.00
LSD	23.78					
DCAL	23.49					
SSD	23.24					
HEADVOLT	21.47					
			CDL-DHT (2501DHT) Digital High Temp CDL Tool	9.69	4.00	201.00
SP	10.60					
CILD	10.60		DIL-G (5375) Gearhart	21.47	4.00	345.00
CILM	6.89					
RLL3	1.70					

Dataset: aobeacha2oh.db: Bemis-Shutts/Beach\_A\_#2/run1/pass2.1  
 Total length: 40.49 ft  
 Total weight: 676.00 lb  
 O.D.: 4.00 in