DUAL INDUCTION LOG

Company Royal Energy, Inc.
Well Young #1
Field Frisbie
County Pratt State KS

Location: API # : 15 151 22456

1700' FNL & 1700' FEL

SEC 7 TWP 26S RGE 13W

Other Services
ML
CDNL

Elevation
K.B. 1970'
D.F. 1969'
G.L. 1960'

Permanent Datum Ground Level Elevation 1960'
Log Measured From KB 10' AGL
Drilling Measured From KB

Company Royal Energy, Inc.
Well Young #1
Field Frisbie
County Pratt
State KS

Date	1-12-17		
Run Number	One		
Depth Driller	4400'		
Depth Logger	4400'		
Bottom Logged Interval	4387'		
Top Log Interval	3200'		
Casing Driller	309'		
Casing Logger	309'		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical Mud		
Density / Viscosity	9.3/55		
pH / Fluid Loss	9.4/12.8		
Source of Sample	Pit		
Rm @ Meas. Temp	.9@52degf		
Rmf @ Meas. Temp	.67@52degf		
Rmc @ Meas. Temp	1.1@52degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	.4@116degf		
Time Circulation Stopped	3:15 p.m.		
Time Logger on Bottom	6:00 p.m.		
Maximum Recorded Temperature	116 degf		
Equipment Number	T127		
Location	Hays, KS.		
Recorded By	Gus Pfanenstiel		
Witnessed By	Mr. Eli Felts	Mr. Jeff Burk	

<<< Fold Here >>>

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

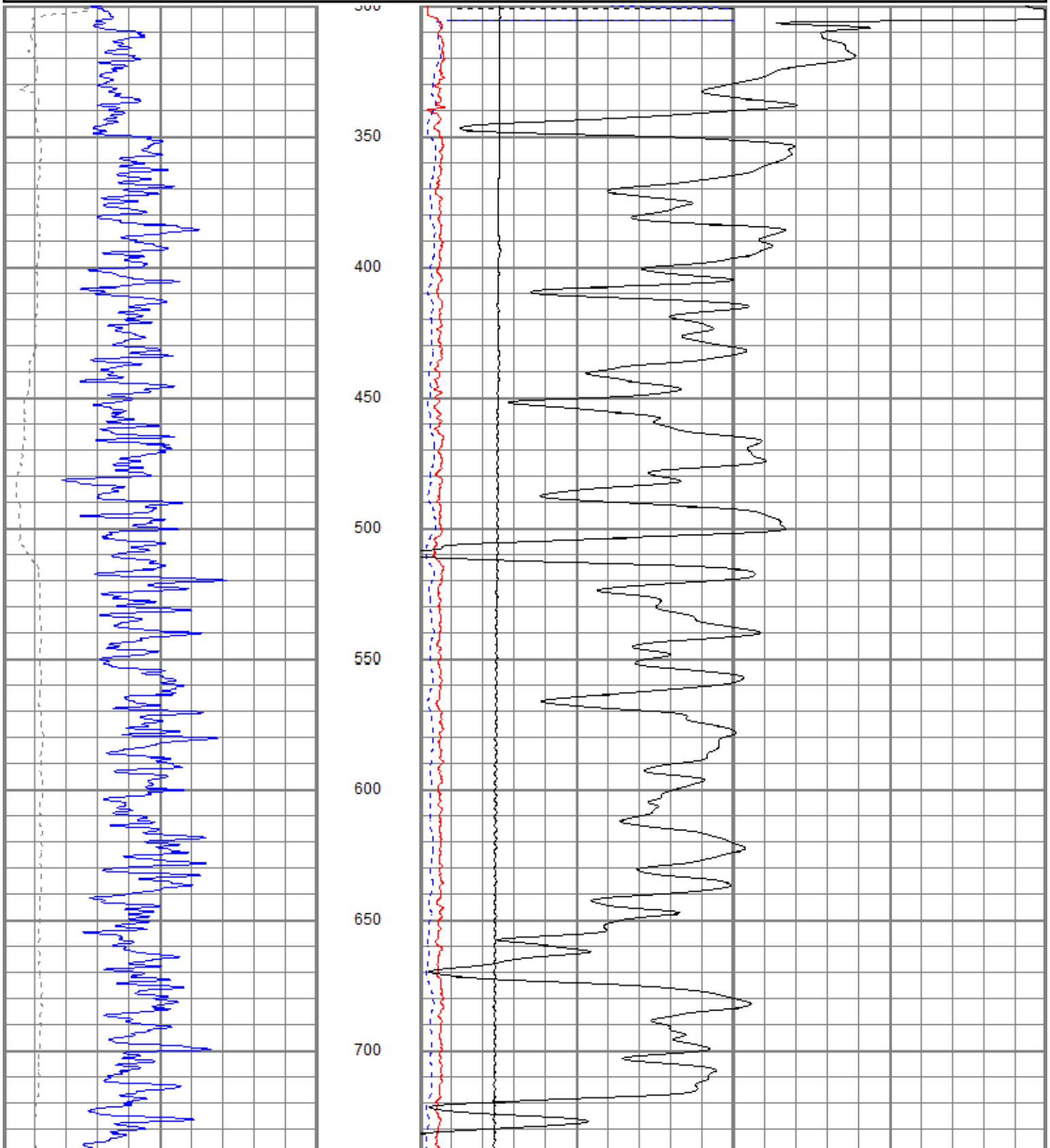
Thank you for using Gemini Wireline
785-625-1182

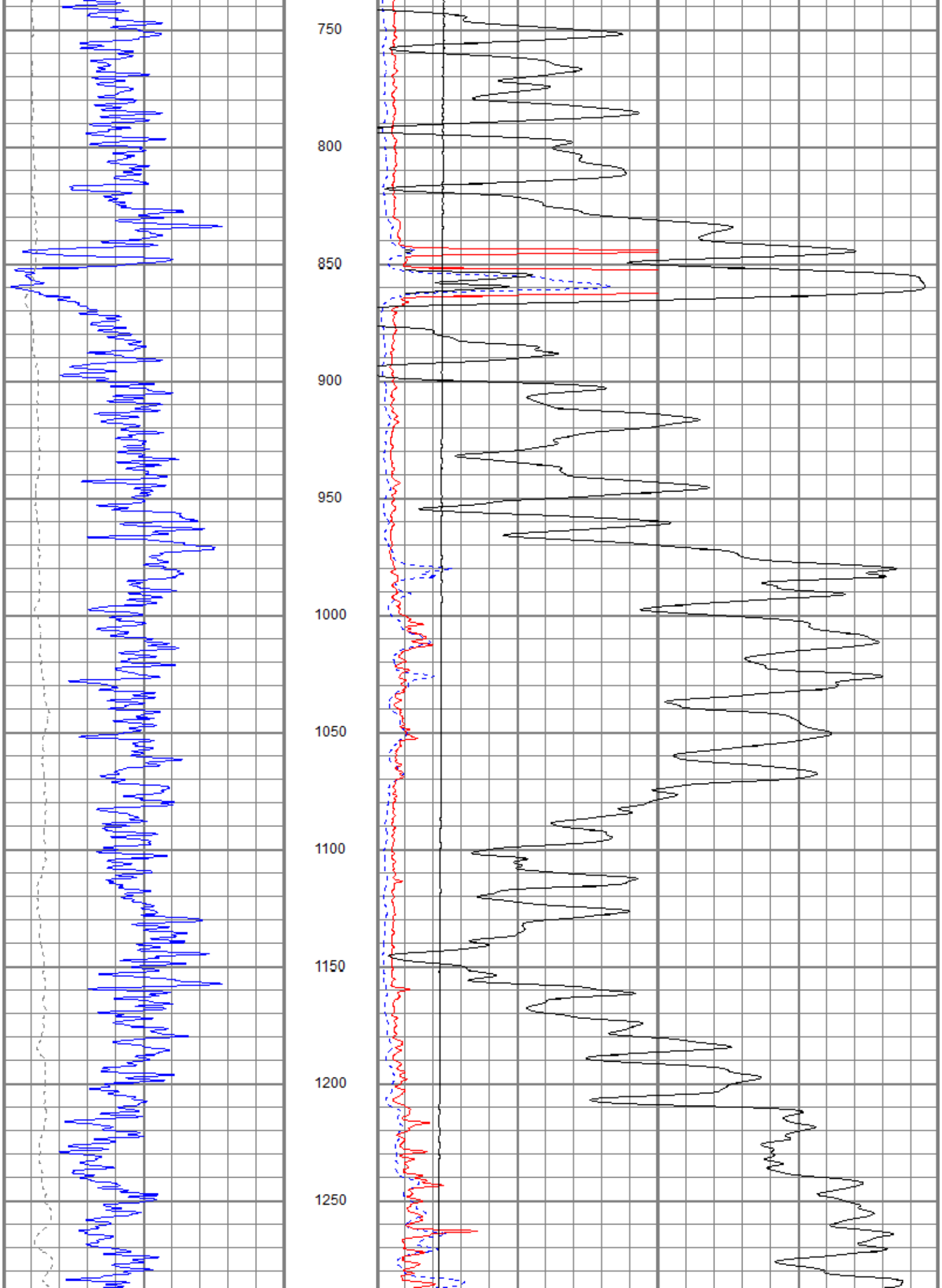
Main Pass

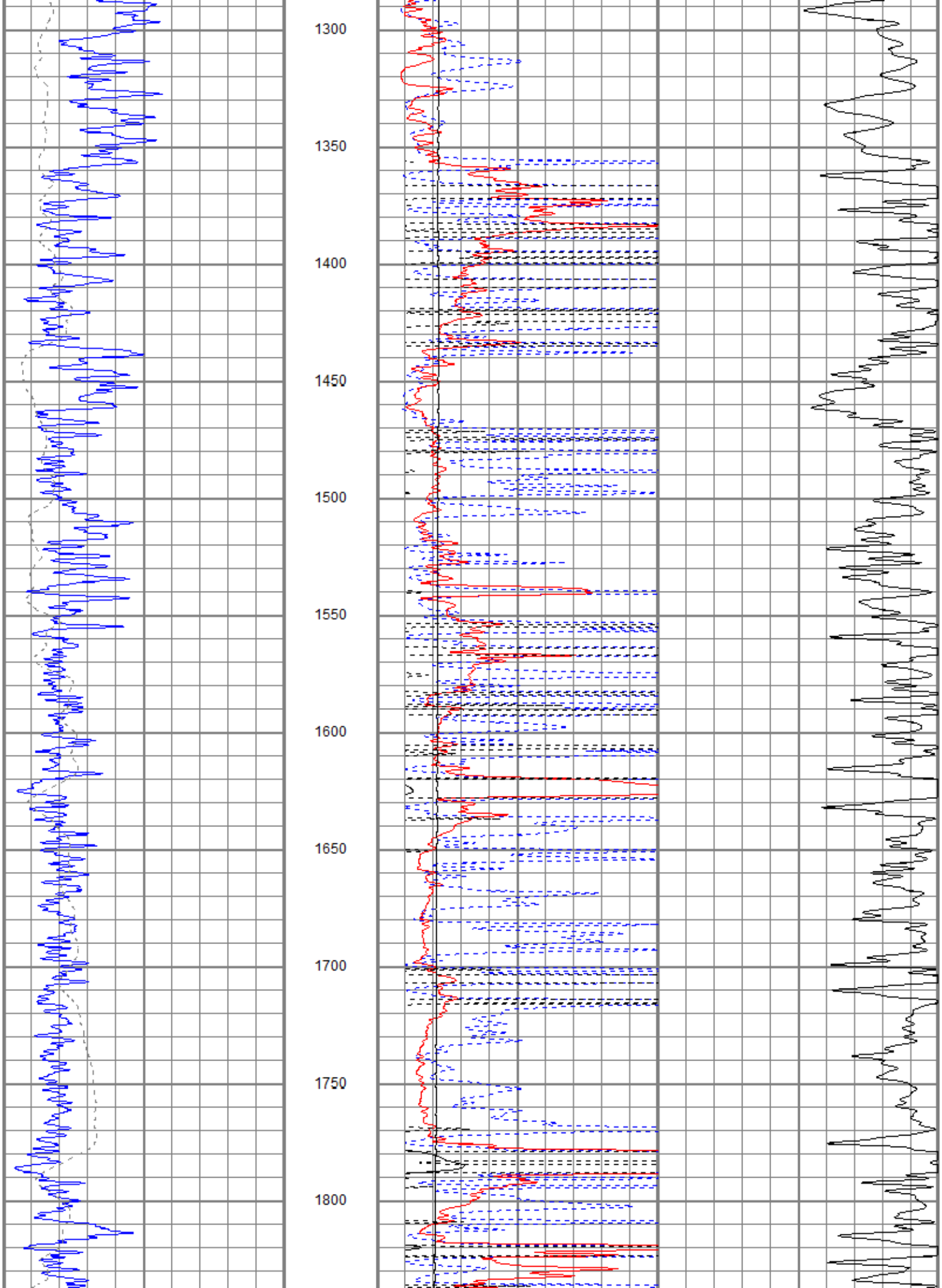
Database File	reyoung#1oh.db
Dataset Pathname	pass2
Presentation Format	kdillin2
Dataset Creation	Thu Jan 12 18:04:30 2017
Charted by	Depth in Feet scaled 1:600

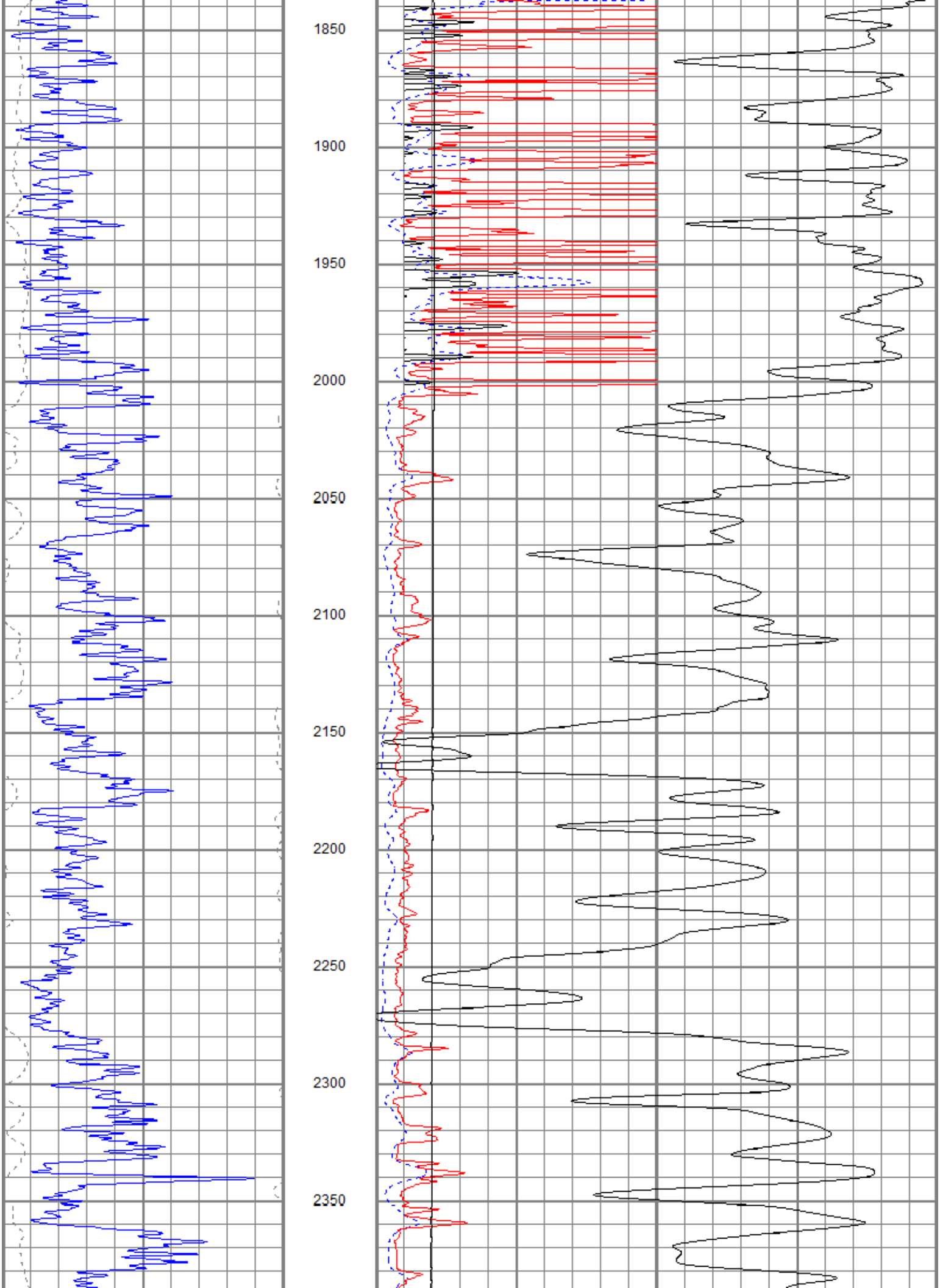
0	GR (GAPI)	150
-200	SP (mV)	0

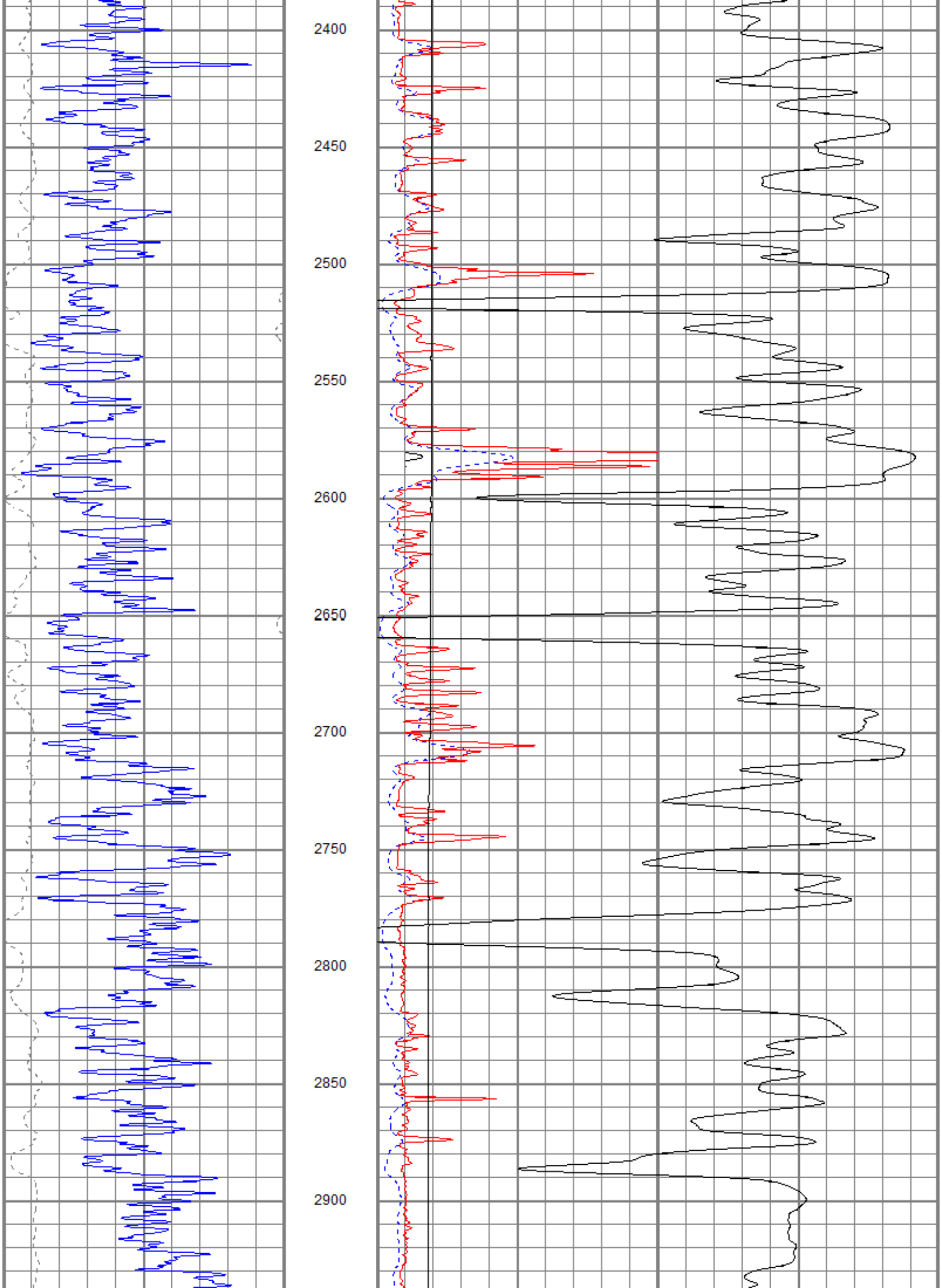
1000	CILD (mmho/m)	0
10000	LTEN (lb)	0
0	RILD (Ohm-m)	50
0	RLL3 (Ohm-m)	50
50	RILD x 10 (Ohm-m)	500
50	RLL3 x 10 (Ohm-m)	500

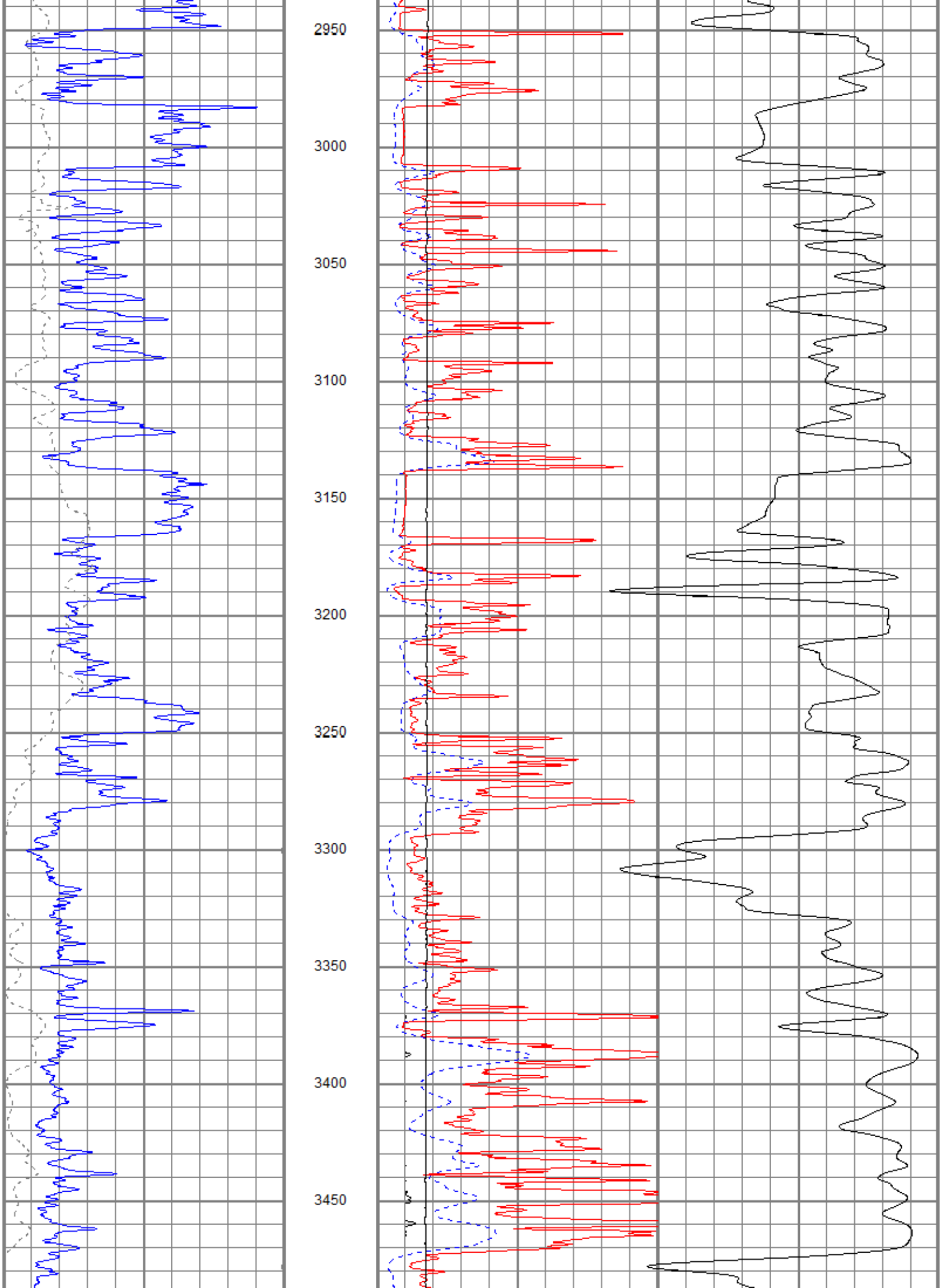


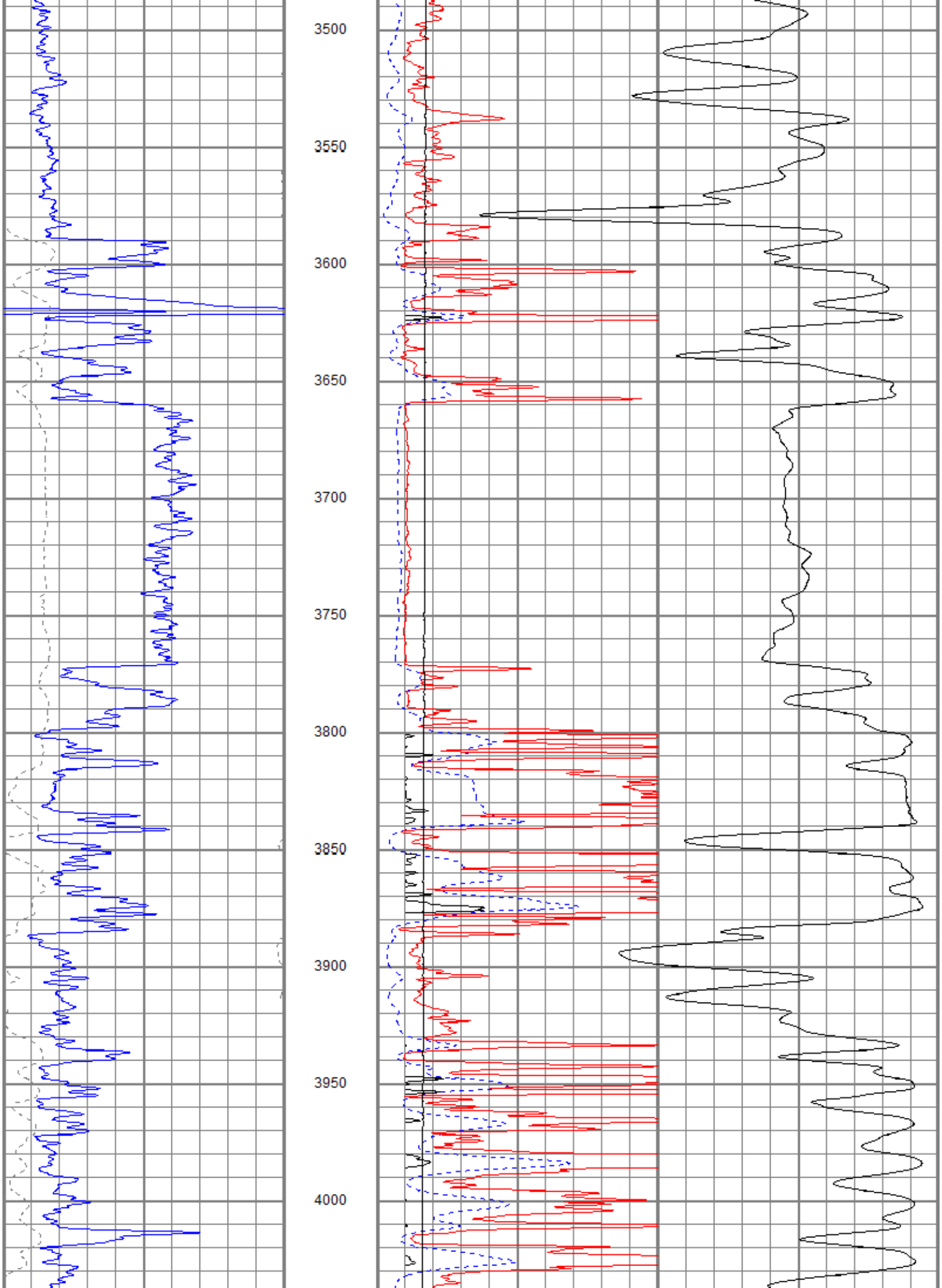

750
800
850
900
950
1000
1050
1100
1150
1200
1250

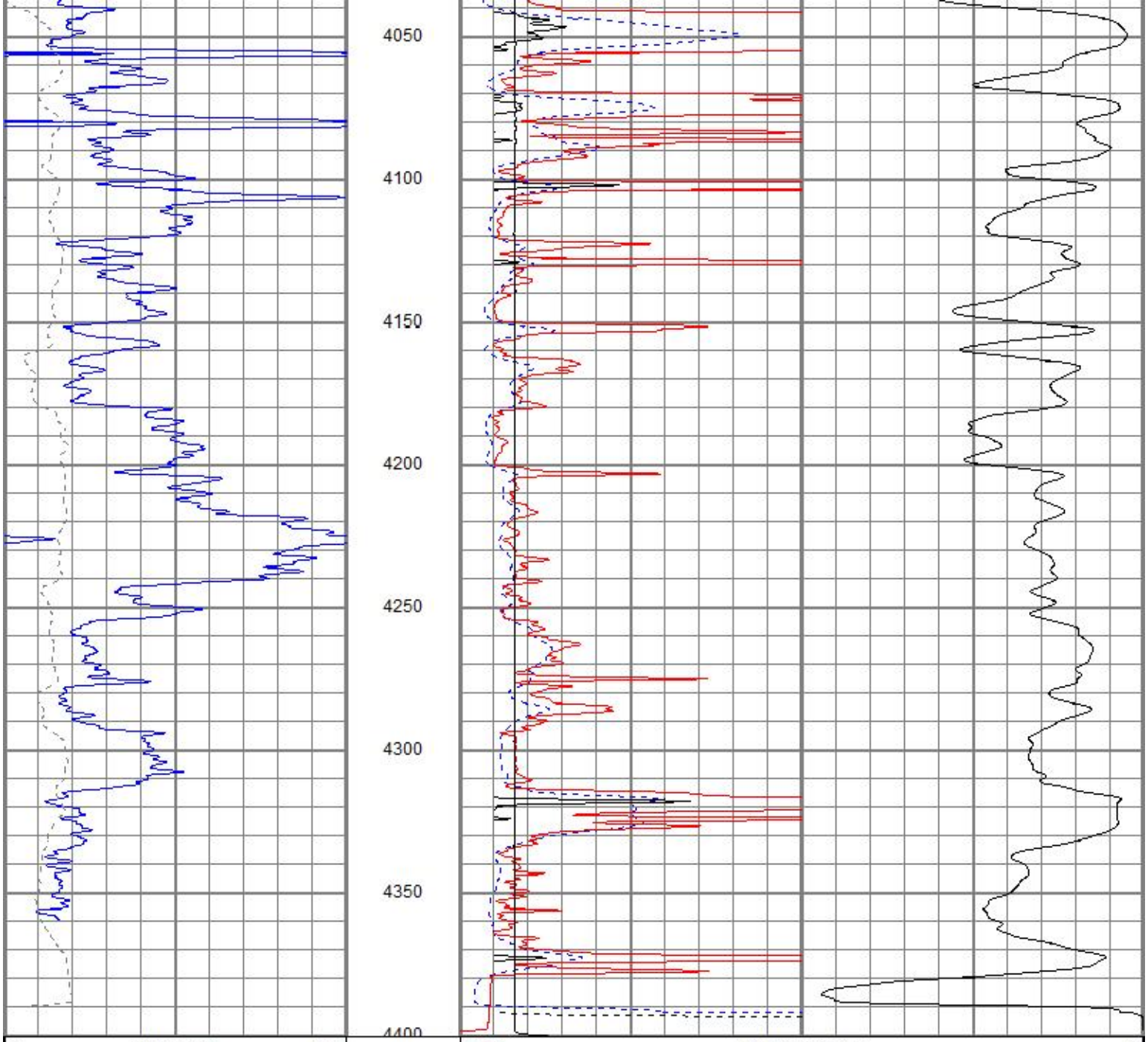

1300
1350
1400
1450
1500
1550
1600
1650
1700
1750
1800


1850
1900
1950
2000
2050
2100
2150
2200
2250
2300
2350


2400
2450
2500
2550
2600
2650
2700
2750
2800
2850
2900


2950
3000
3050
3100
3150
3200
3250
3300
3350
3400
3450


3500
3550
3600
3650
3700
3750
3800
3850
3900
3950
4000



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

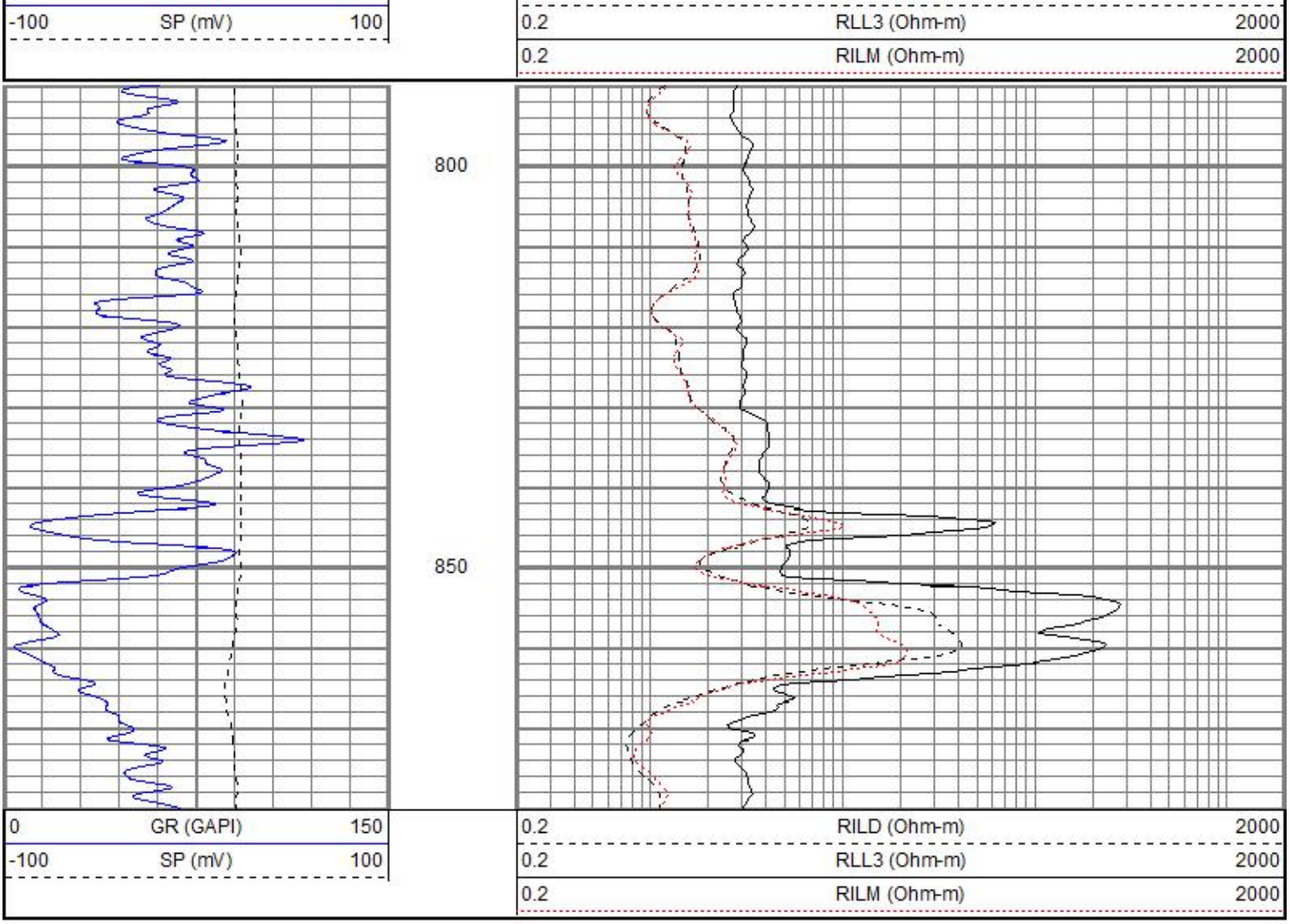
1000	CILD (mmho/m)	0
10000	LTEN (lb)	0
0	RILD (Ohm-m)	50
0	RLL3 (Ohm-m)	50
50	RILD x 10 (Ohm-m)	500
50	RLL3 x 10 (Ohm-m)	500

GEMINI WIRELINE

Main Pass

Database File	reyoung#1oh.db
Dataset Pathname	pass2
Presentation Format	kdil
Dataset Creation	Thu Jan 12 18:04:30 2017
Charted by	Depth in Feet scaled 1:240

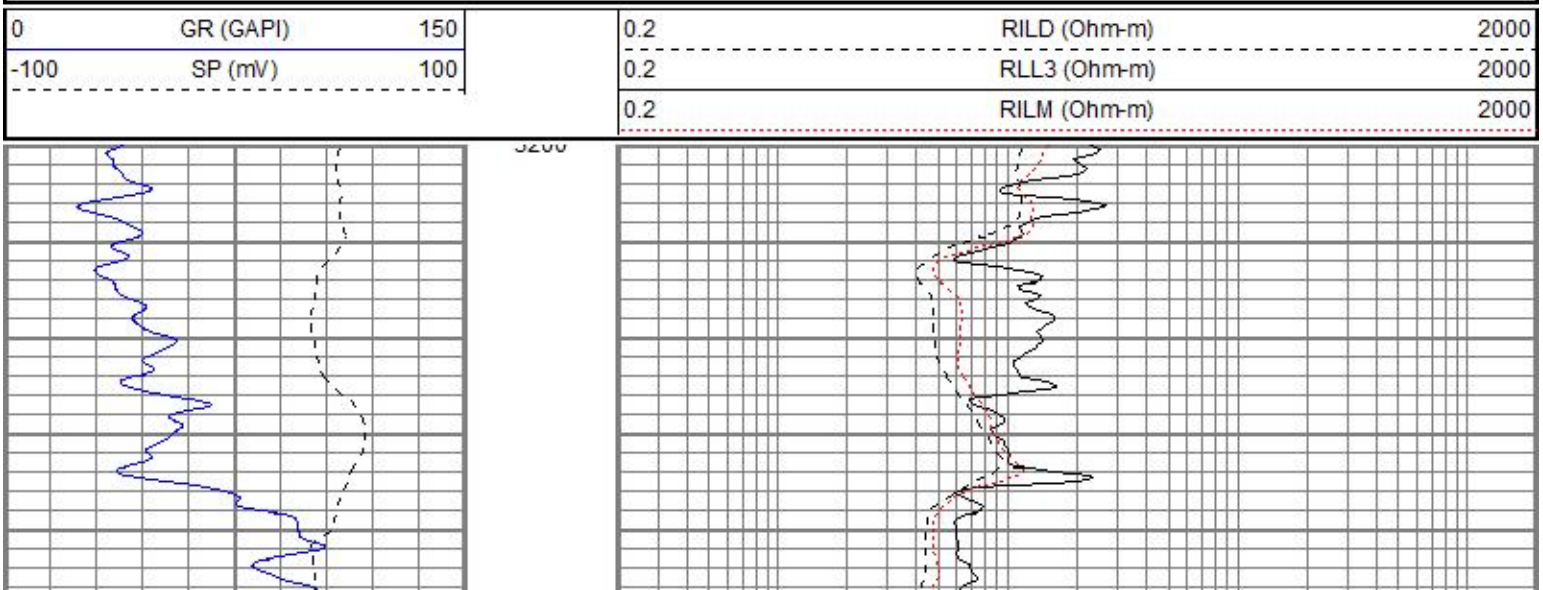
0	GR (GAPI)	150
0.2	RILD (Ohm-m)	2000

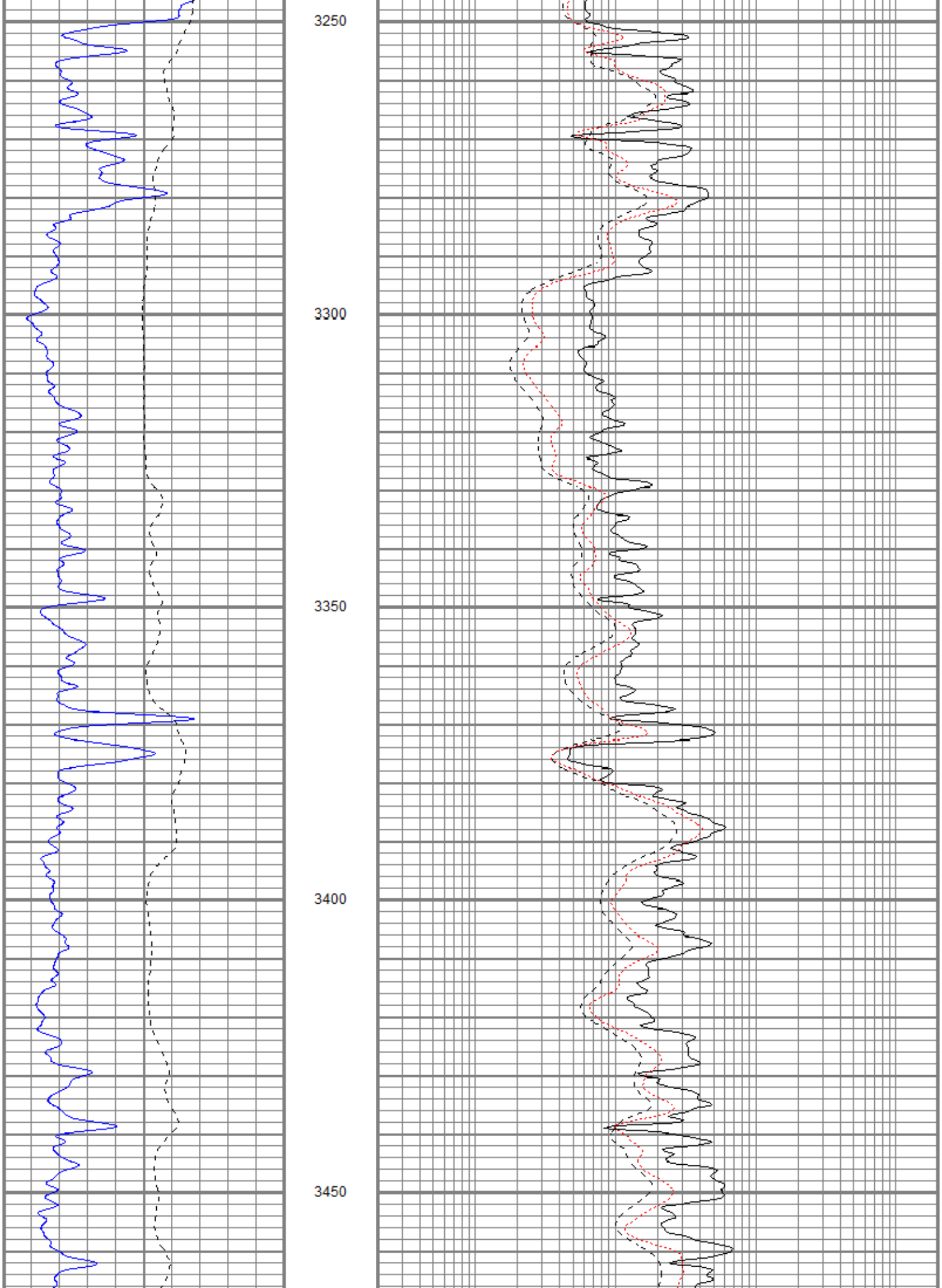


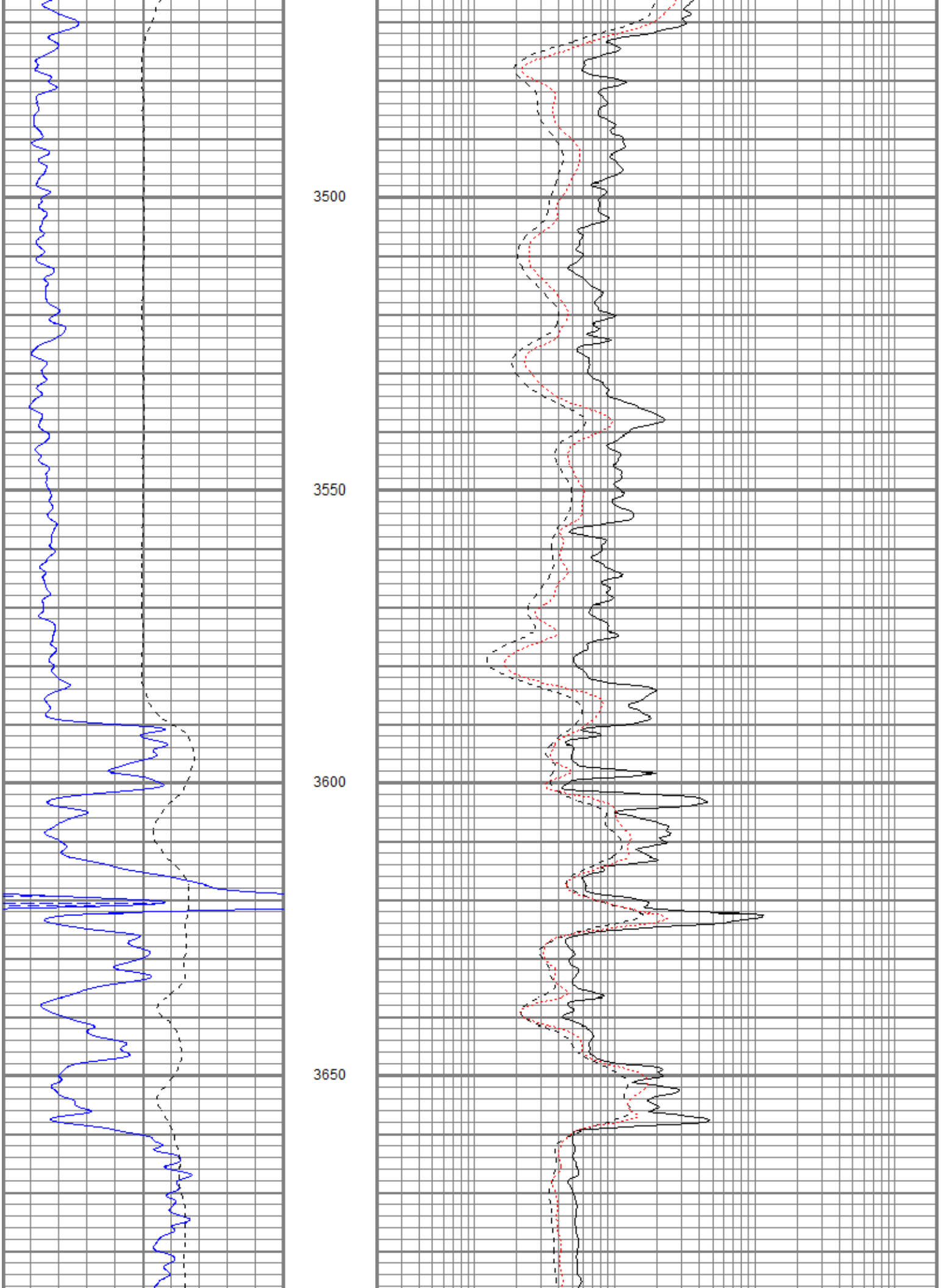
GEMINI WIRELINE

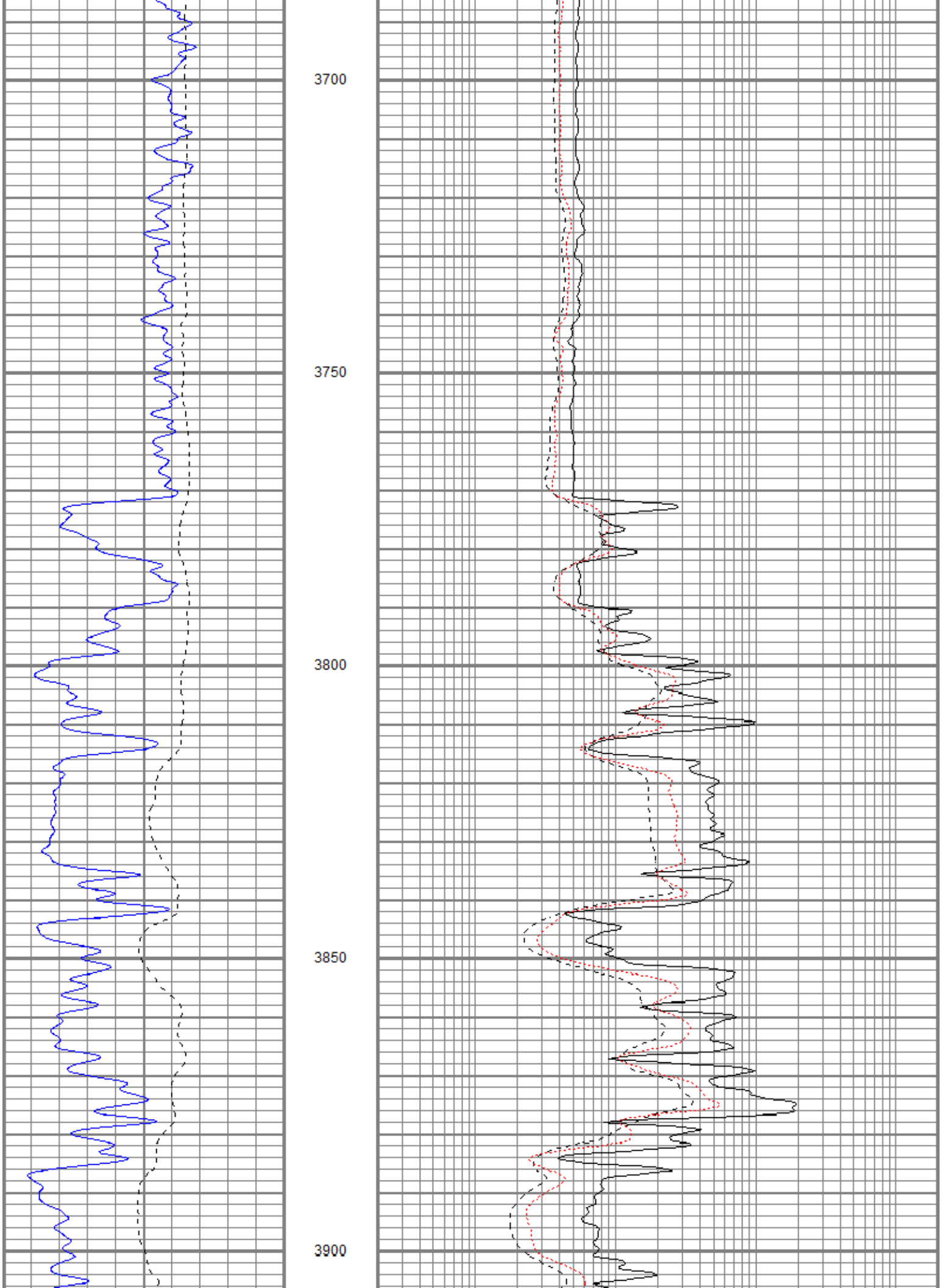
Main Pass

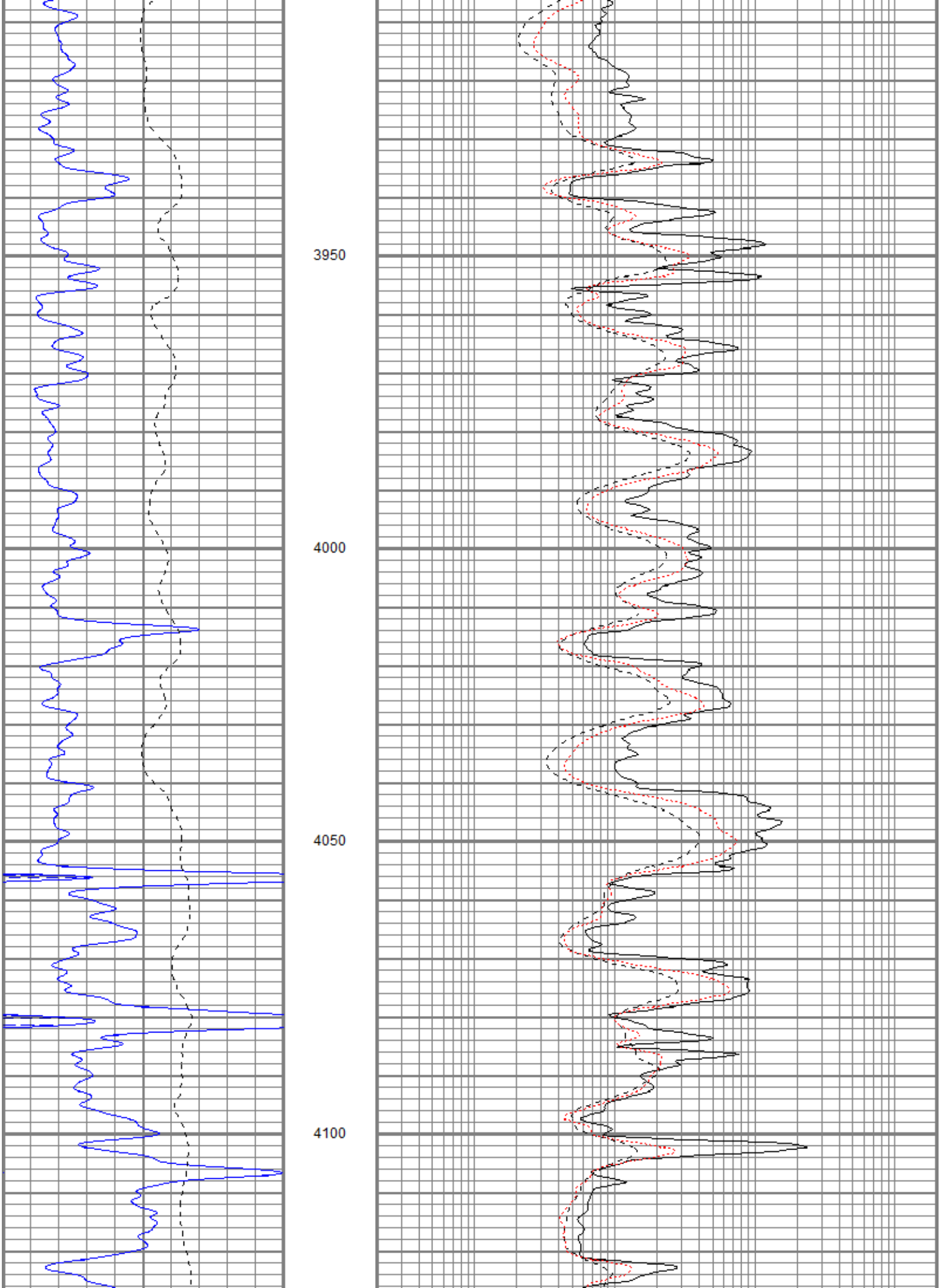
Database File	reyoung#1oh.db
Dataset Pathname	pass2
Presentation Format	kdil
Dataset Creation	Thu Jan 12 18:04:30 2017
Charted by	Depth in Feet scaled 1:240

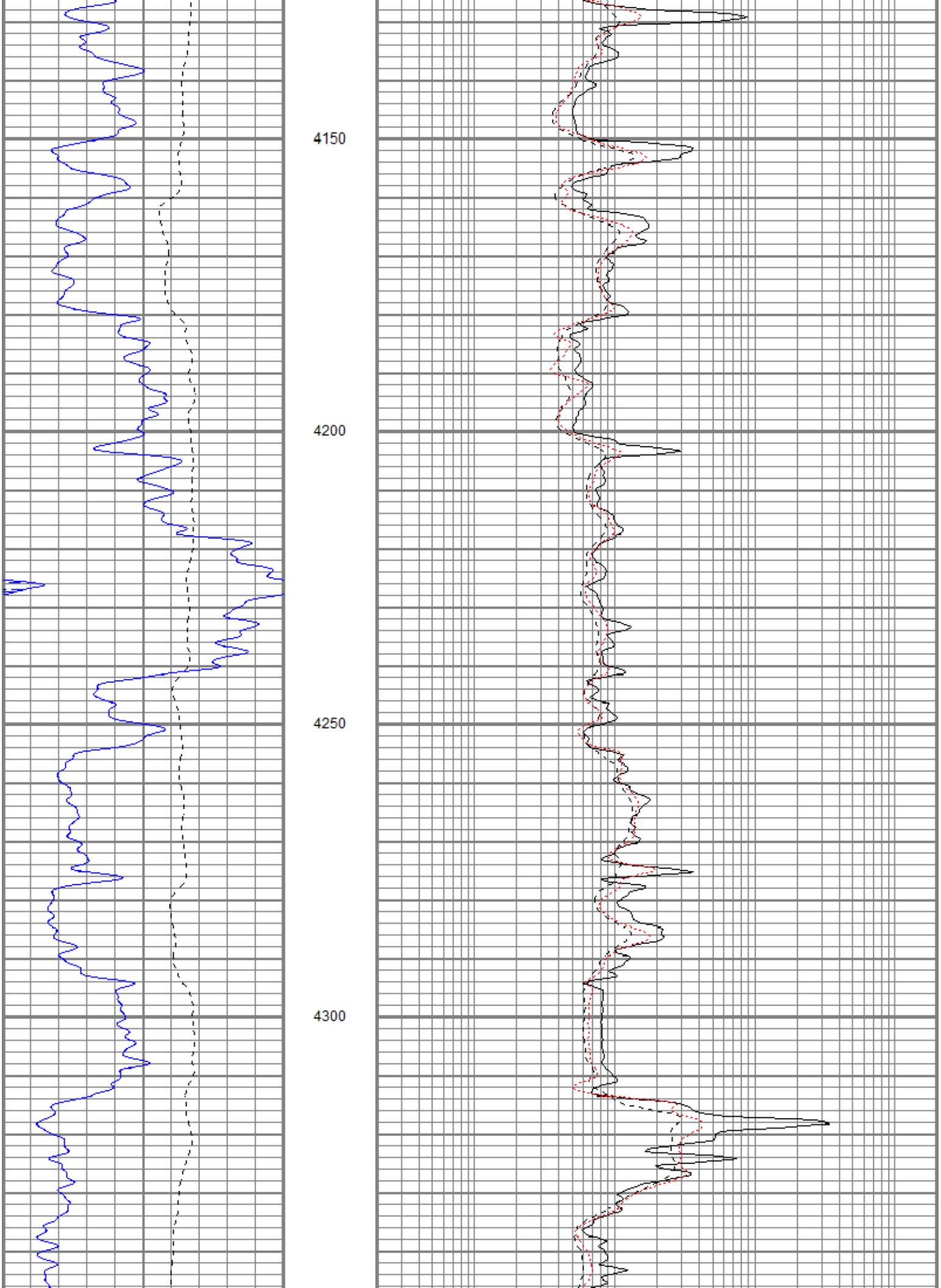


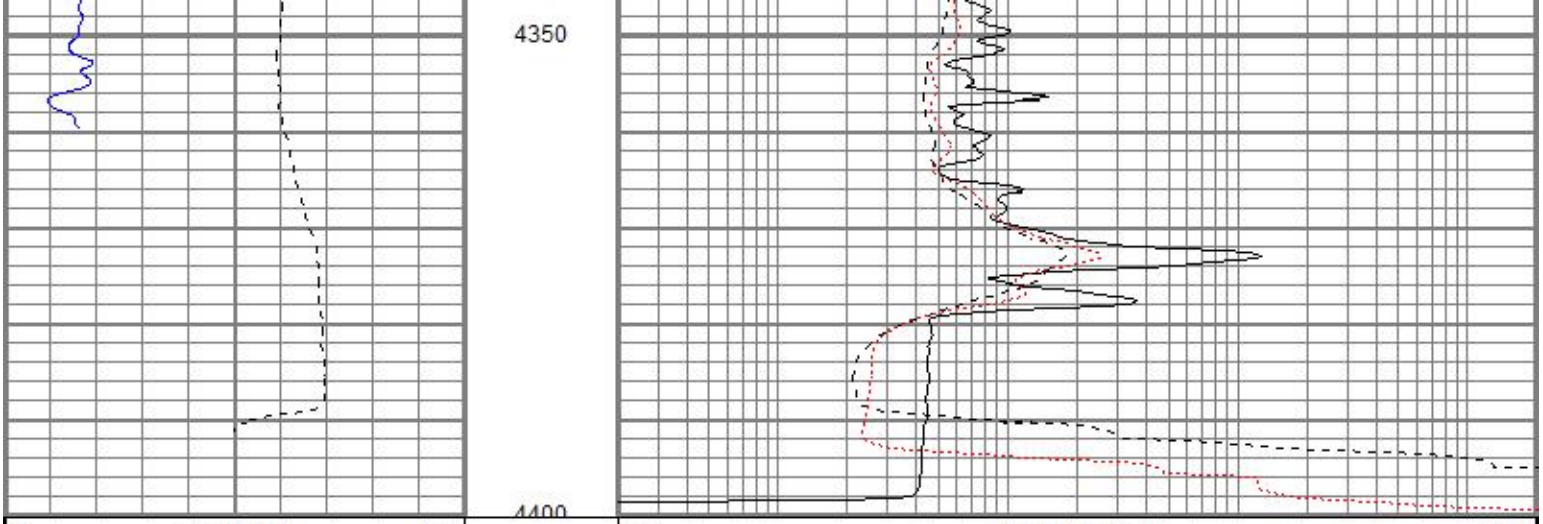

3250
3300
3350
3400
3450


3500
3550
3600
3650


3700
3750
3800
3850
3900


3950
4000
4050
4100


4150
4200
4250
4300



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

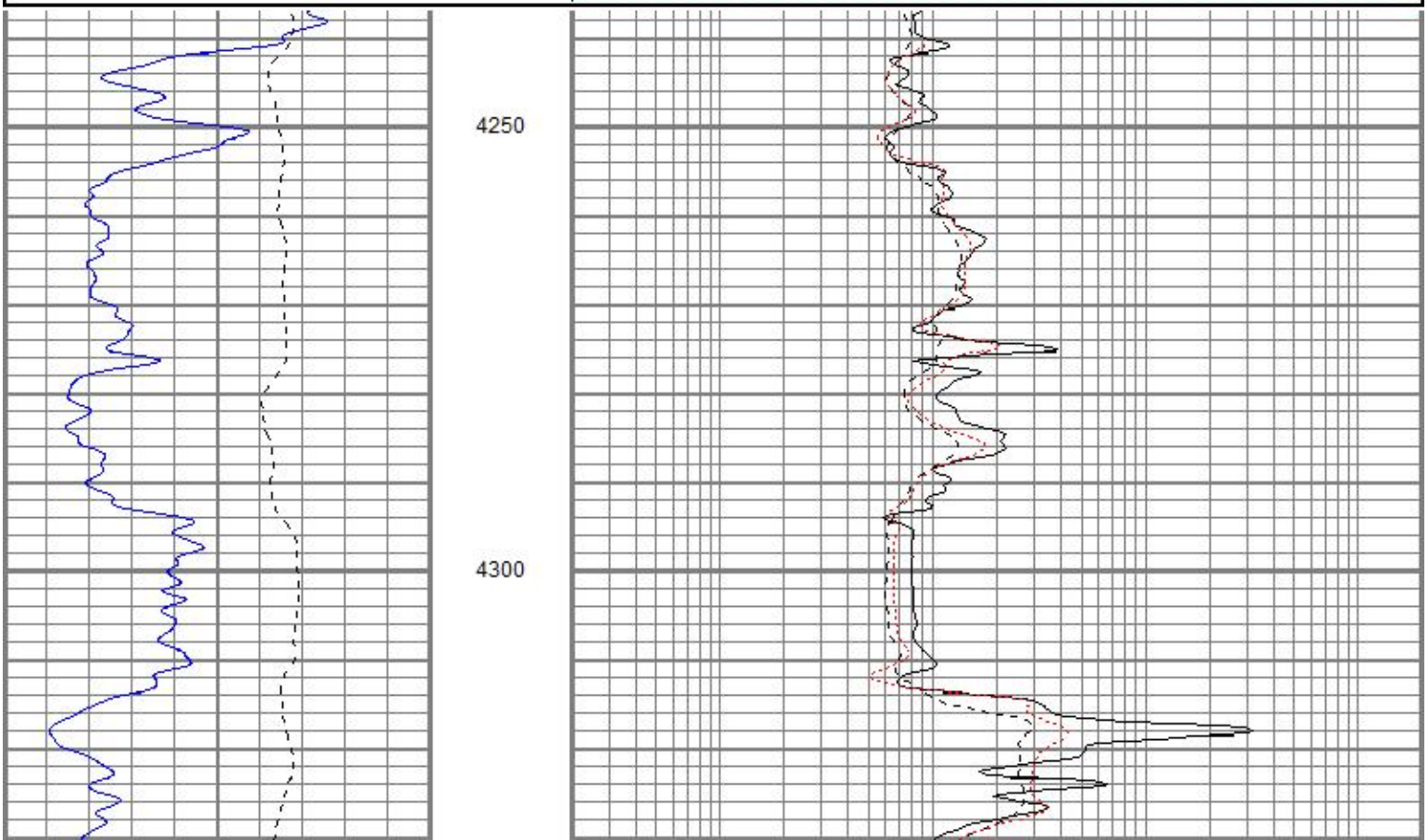
0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000

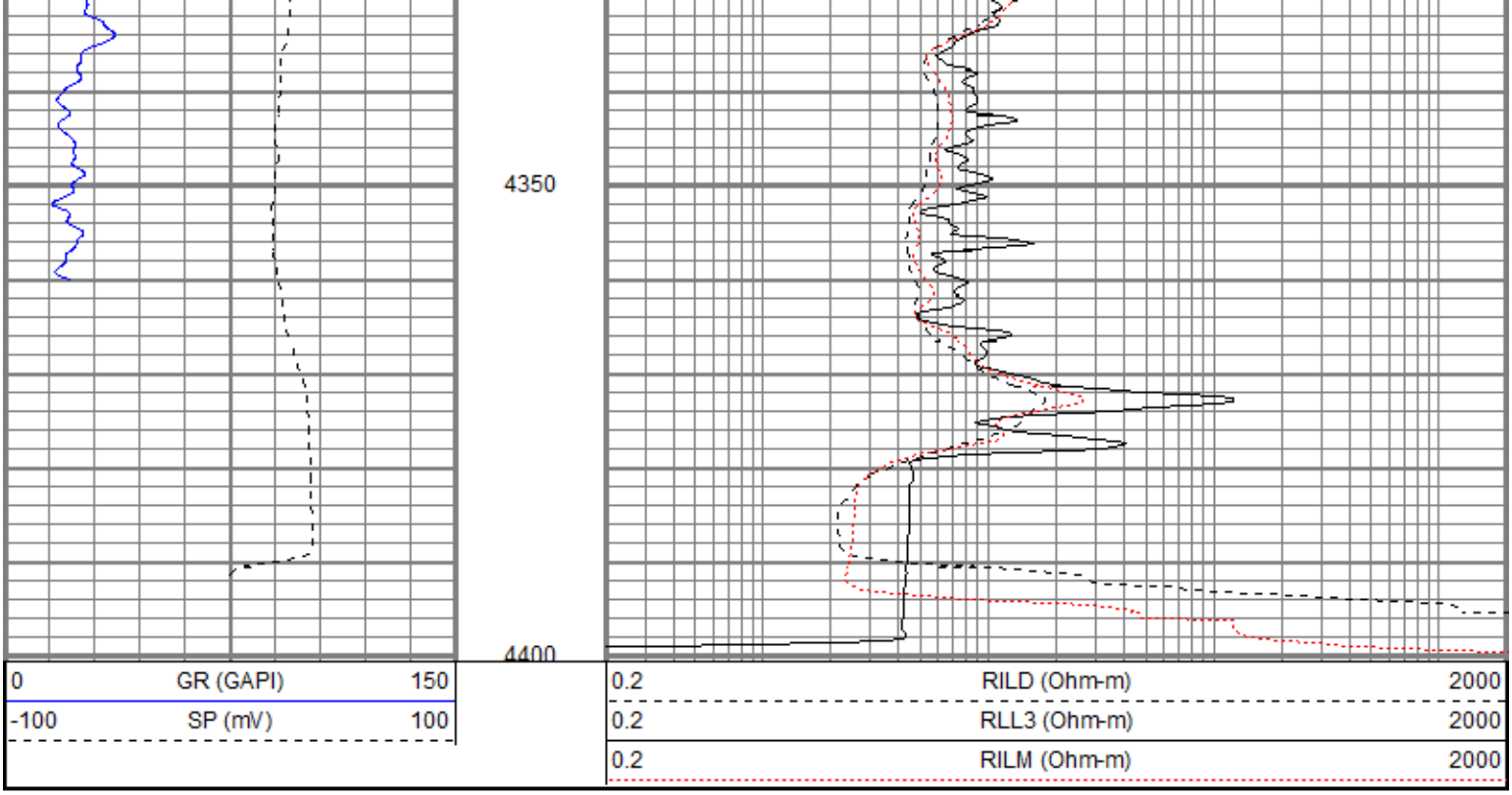
Repeat Pass

Database File	reyoung#1oh.db
Dataset Pathname	pass1
Presentation Format	kdil
Dataset Creation	Thu Jan 12 17:57:55 2017
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





Calibration Report

Database File reyoung#1oh.db
Dataset Pathname pass1
Dataset Creation Thu Jan 12 17:57:55 2017

Dual Induction Calibration Report

Serial-Model:	1989-ADM
Surface Cal Performed:	Fri Dec 09 04:19:59 2016
Downhole Cal Performed:	Fri Dec 09 04:20:05 2016
After Survey Verification Performed:	Fri Dec 09 04:20:08 2016

Surface Calibration

	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

Downhole Calibration

	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	180.177	-2.046

After Survey Verification

	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

Neutron Calibration Report

Serial Number:	Admyr	
Tool Model:	G	
Performed:	Fri Dec 09 04:18:49 2016	
Calibrator Value:	1	NAPI
Calibrator Reading:	1	cps
Sensitivity:	1	NAPI/cps

Gamma Ray Calibration Report

Serial Number:	1	
Tool Model:	A	
Performed:	Sun Dec 11 17:01:48 2016	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.7000	GAPI/cps

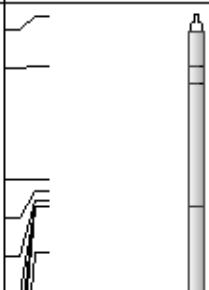
Temperature Calibration Report

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 Dec 09 04:18:36 2016

	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
			ADT1ADC-A (1) Analog Interface #1	0.83	3.50	10.00
TEMP	35.35					
ASTAT	35.06		ADT1SENSORS-A (1)	4.54	3.50	10.00
GRD	34.81					
ACCX	34.65					

ACCY	34.65				
ACCX	34.65				
SSTAT	34.65				
NEU	33.46	NEU-G (Admyr) Gearhart Epithermal	5.65	3.50	85.00
LStat	22.54				
LS8	21.88				
LS7	21.88	ADT1LITH-A (1) Admyr Litho Density Tool	9.29	3.50	240.00
LS6	21.88				
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				
SS4	21.67	DIL-ADM (1989) Dual Induction	19.71	4.00	300.00
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				

Dataset: reyoung#1oh.db: field/well/run1/pass1
Total length: 39.69 ft
Total weight: 656.00 lb
O.D.: 4.00 in