



DUAL INDUCTION LOG

Pioneer Energy Services

CompanyBLACKSTONE OIL & GAS, LLC		Company BLACKSTONE OIL & GAS, LLC	
Well	MOHR #2-3	Well	MOHR #2-3
Field	OTIS-ALBERT	Field	OTIS-ALBERT
County	RUSH	County	RUSH
State	KANSAS	State	KANSAS
Location: API #: 15-165-22123-00-00		Other Services	
467' FSL & 467' FWL		CNL/CDL MEL	
Permanent Datum	GROUND LEVEL	Elevation	1976'
Log Measured From	KELLY BUSHING	K.B.	1982'
Drilling Measured From	KELLY BUSHING	D.F.	N/A
		G.L.	1976'
Date	2/22/2016		
Run Number	ONE		
Depth Driller	2500'		
Depth Logger	2498'		
Bottom Logged Interval	2497'		
Top Log Interval	1000'		
Casing Driller	8.625" @ 1049'		
Casing Logger	1048'		
Bit Size	7.875"		
Type Fluid in Hole	CHEMICAL		
Salinity, ppm CL	10000		
Density / Viscosity	9.1	42	
pH / Fluid Loss	10.5	16	
Source of Sample	Flowline		
Rm @ Meas. Temp	0.28 @ 42		
Rmf @ Meas. Temp	0.21 @ 42		
Rmc @ Meas. Temp	0.38 @ 42		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.12 @ 101		
Operating Rig Time	2 HOURS		
Max Rec. Temp. F	101		
Equipment Number	91		
Location	Hays		
Recorded By	D. SCHMIDT		
Witnessed By	ROD ANDERSEN		

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not 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.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

OTIS,
1 WEST TO 380 RD, 2 SOUTH, 1 WEST,
NORTH INTO

Log Measured From: KELLY BUSHING 6 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneerenergy.com 785-625-3858

Your Pioneer Energy Services Crew

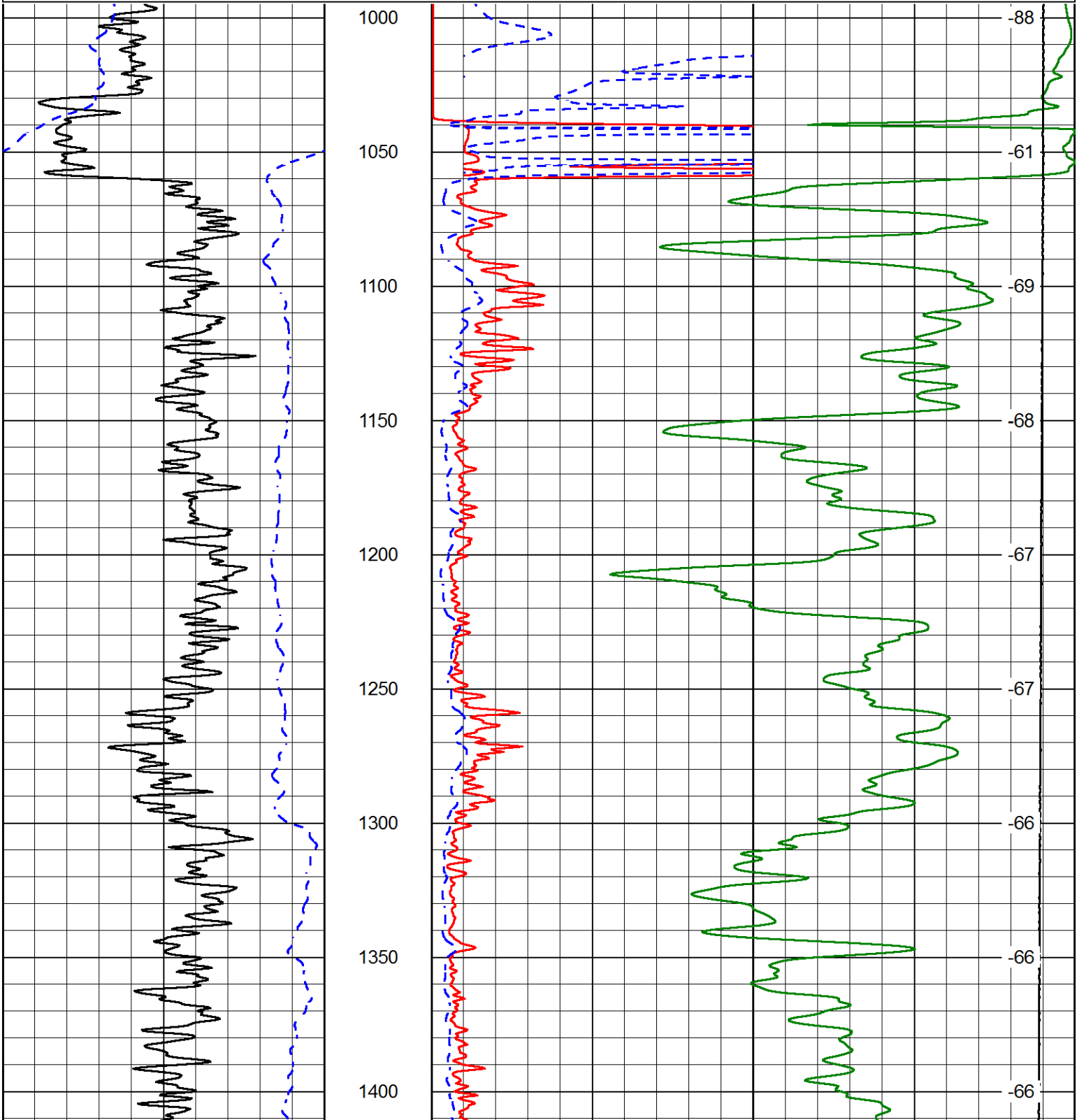
Engineer: D. SCHMIDT
Operator:
Operator:
Operator:

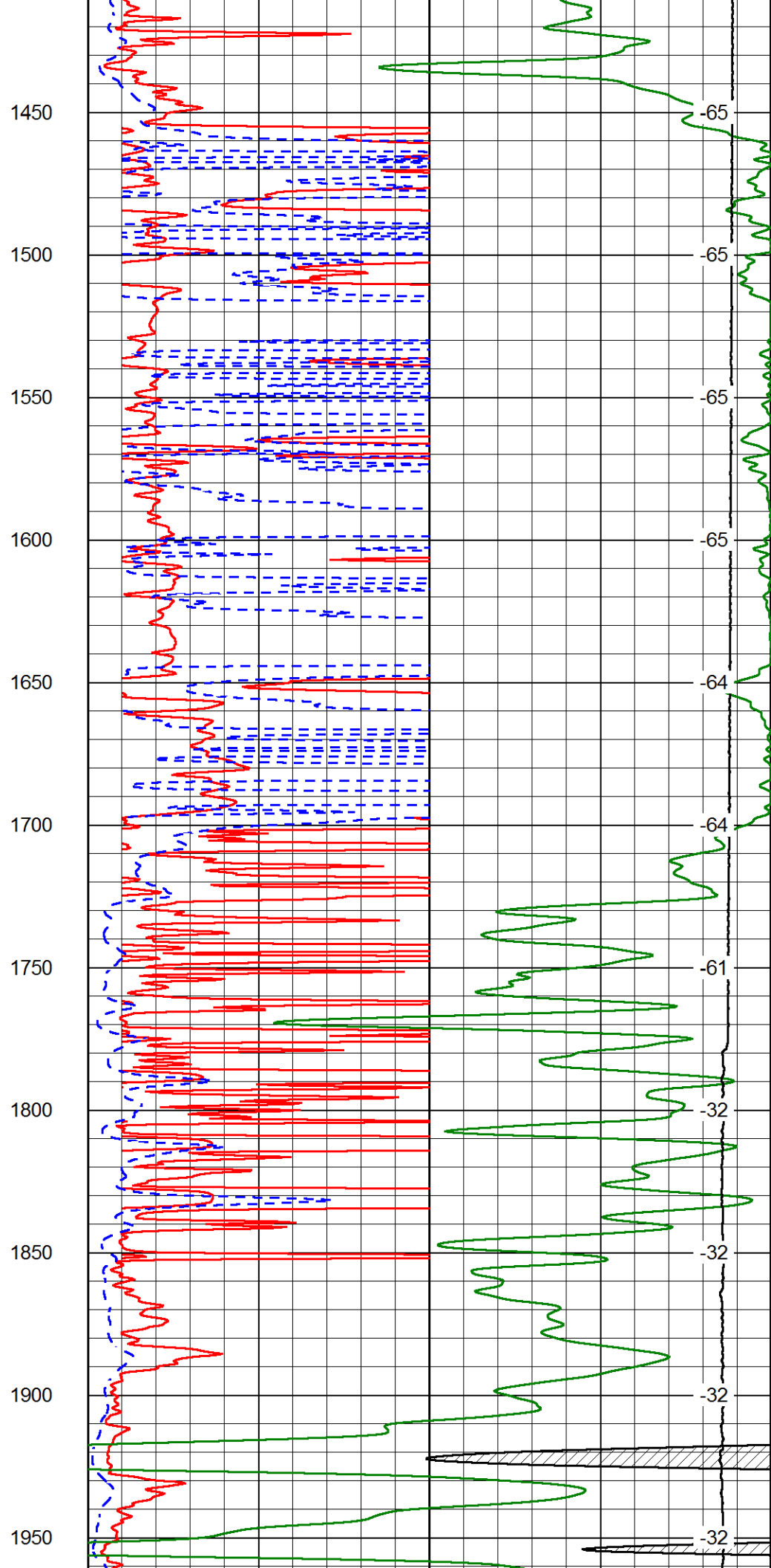
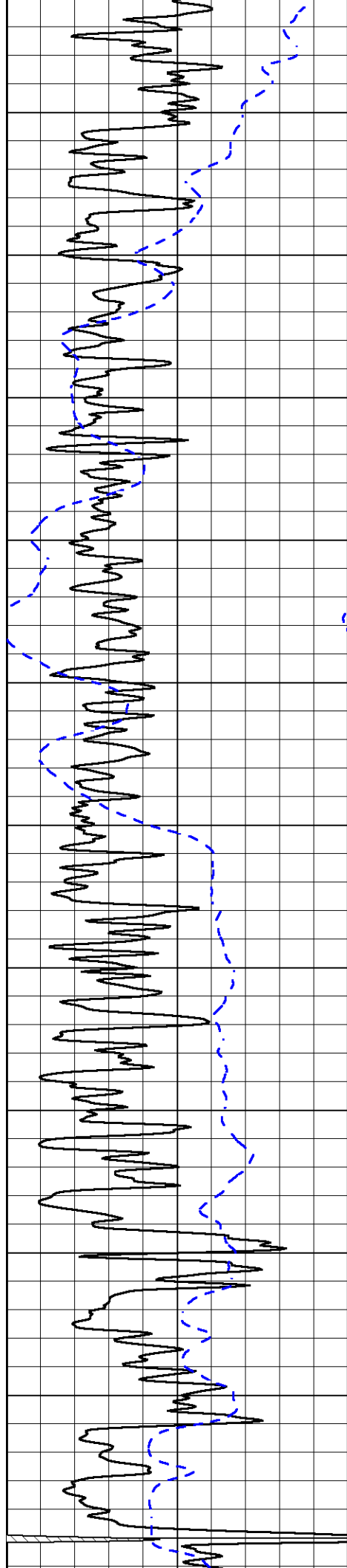
This Log Record Was Witnessed By

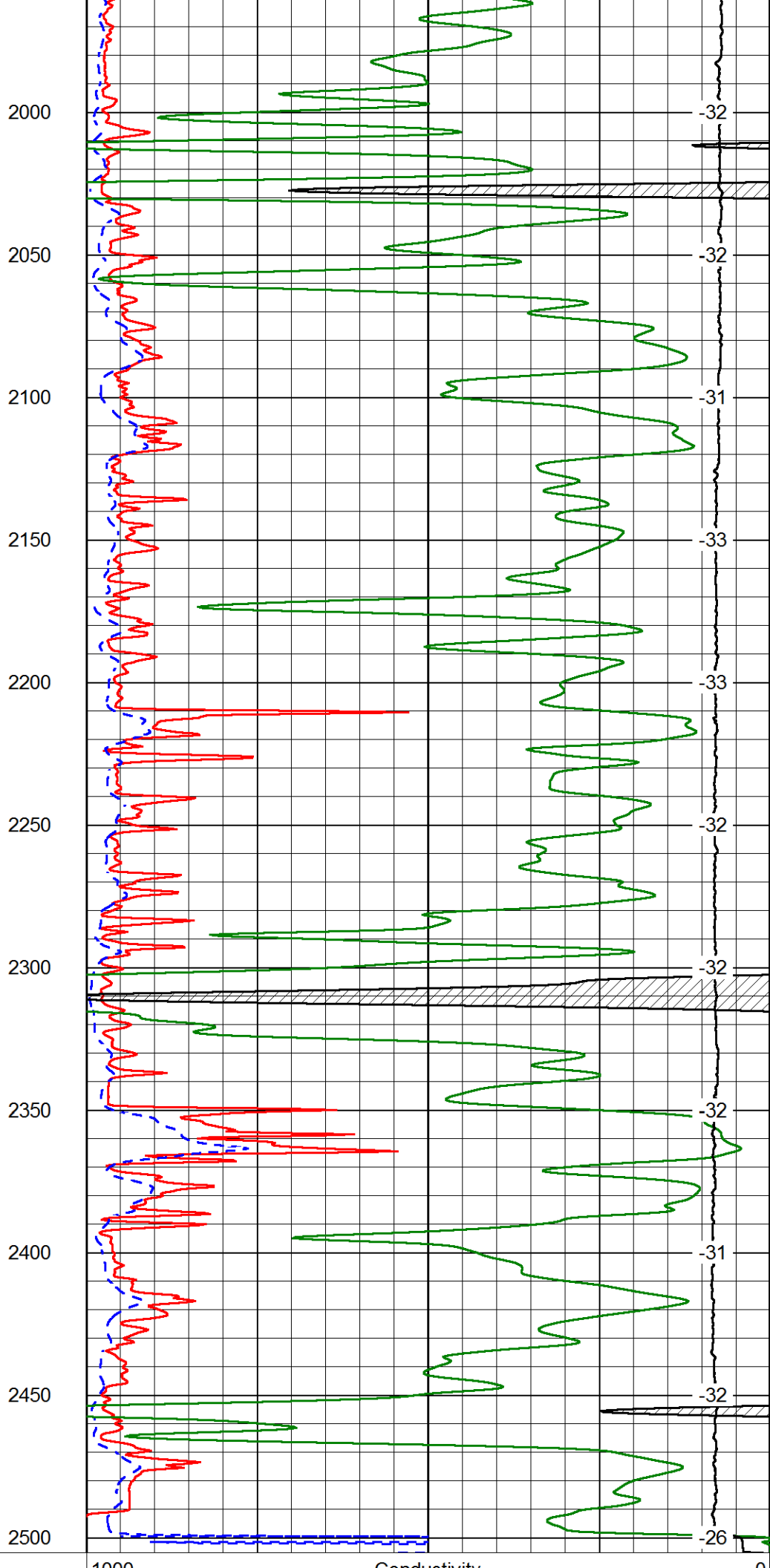
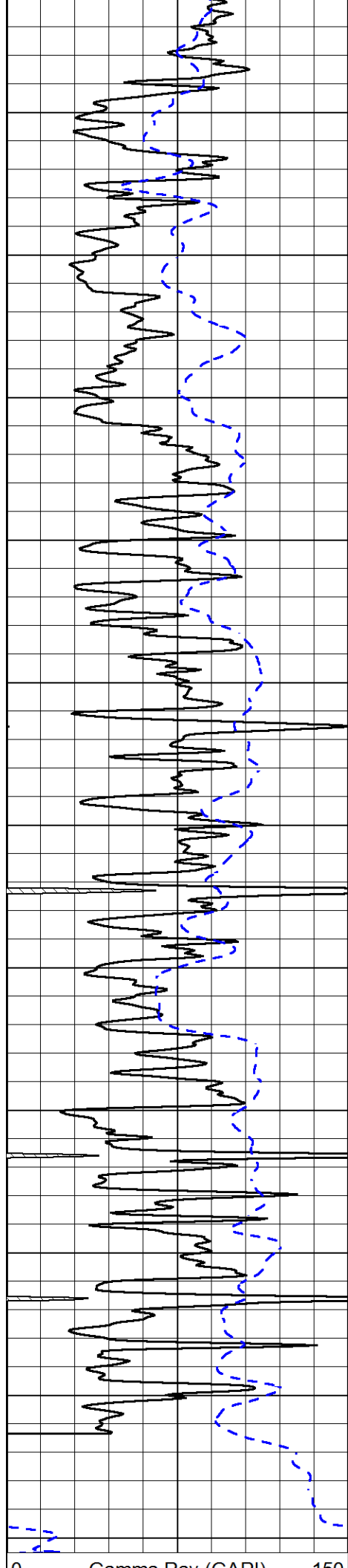
Primary Witness: ROD ANDERSEN
Secondary Witness:
Secondary Witness:
Secondary Witness:

Database File	blackstone_mohr_#2-3\blackstone_mohr_2-3hd.db
Dataset Pathname	DIL/blstkml
Presentation Format	dil2in
Dataset Creation	Mon Feb 22 11:38:05 2016
Charted by	Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150	1000	Conductivity	0
-200	SP (mV)	0	15000	Line Tension (lb)	0
			0	Shallow Resistivity (Ohm-m)	50
			0	Deep Resistivity (Ohm-m)	50
			Shallow Resistivity		LSPD (ft/min)
			50	(Ohm-m)	500
			50	Deep Resistivity (Ohm-m)	500







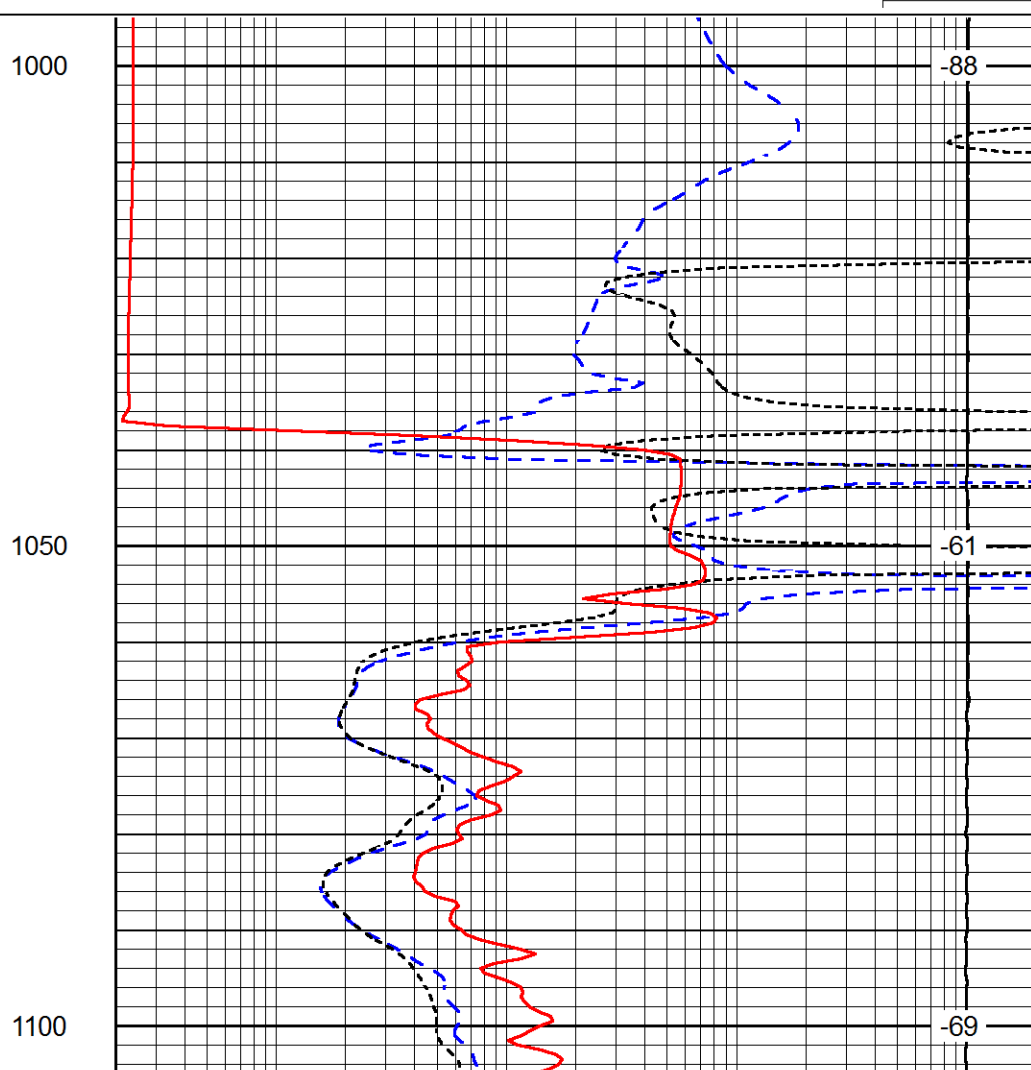
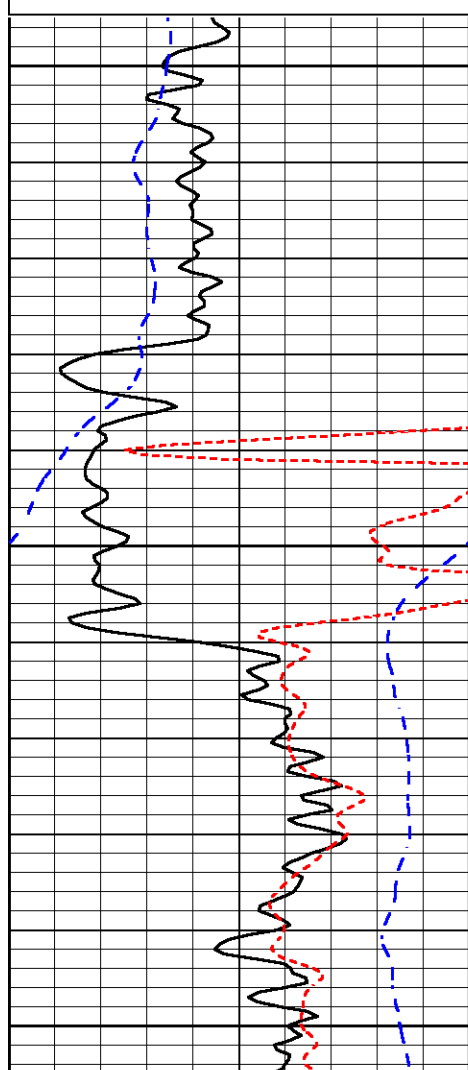
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-200	SP (mV)	0

1000	Conductivity	0
15000	Line Tension (lb)	0
0	Shallow Resistivity (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50
Shallow Resistivity		
50	(Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

Database File	blackstone_mohr_#2-3\blackstone_mohr_2-3hd.db
Dataset Pathname	DIL/blstkml
Presentation Format	dil
Dataset Creation	Mon Feb 22 11:38:05 2016
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
-160	RxoRt	40
-200	SP (mV)	0
0	RWA	0.5

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0
LSPD (ft/min)		



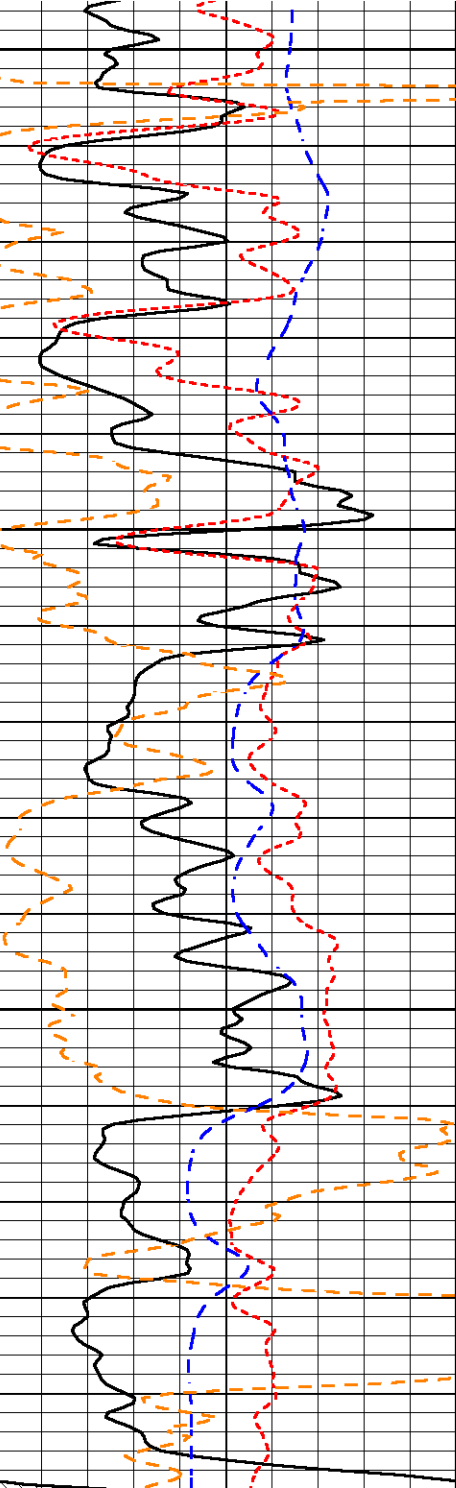
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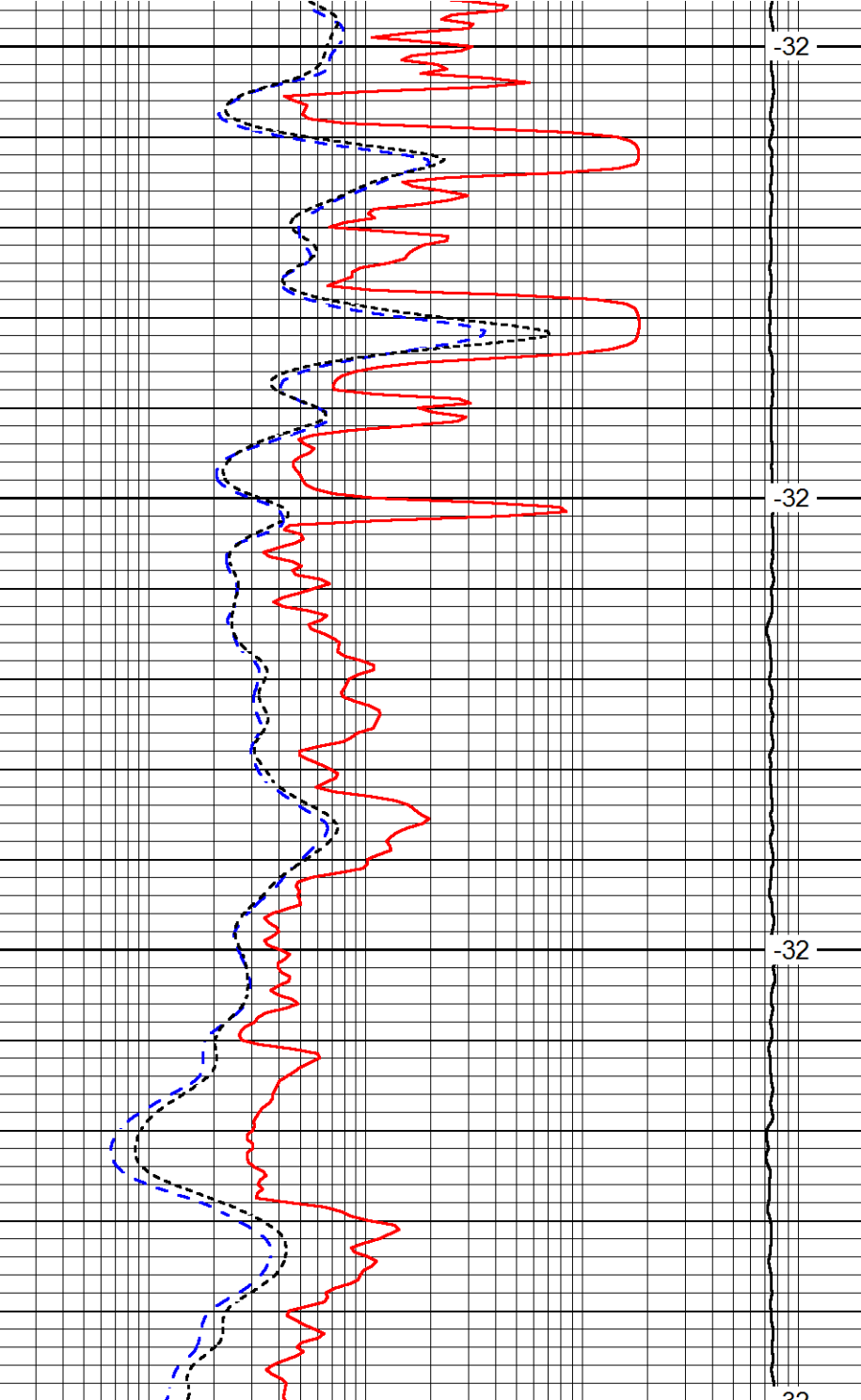


1800

1850

1900

1950

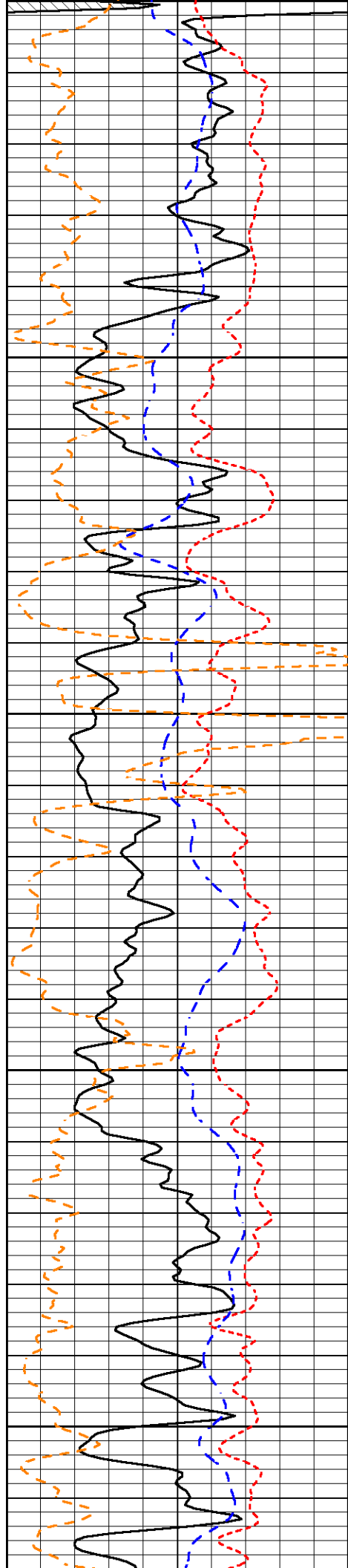


1800

1850

1900

1950



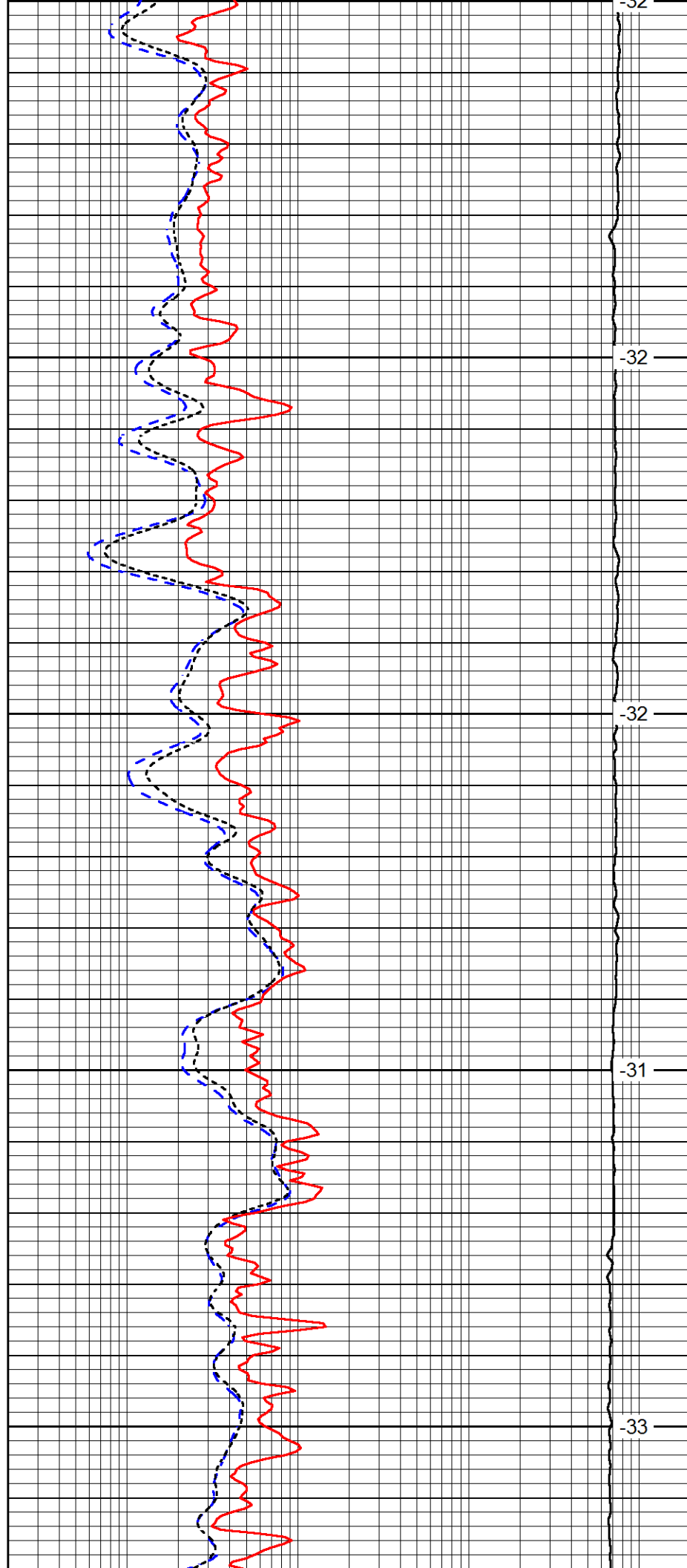
1950

2000

2050

2100

2150



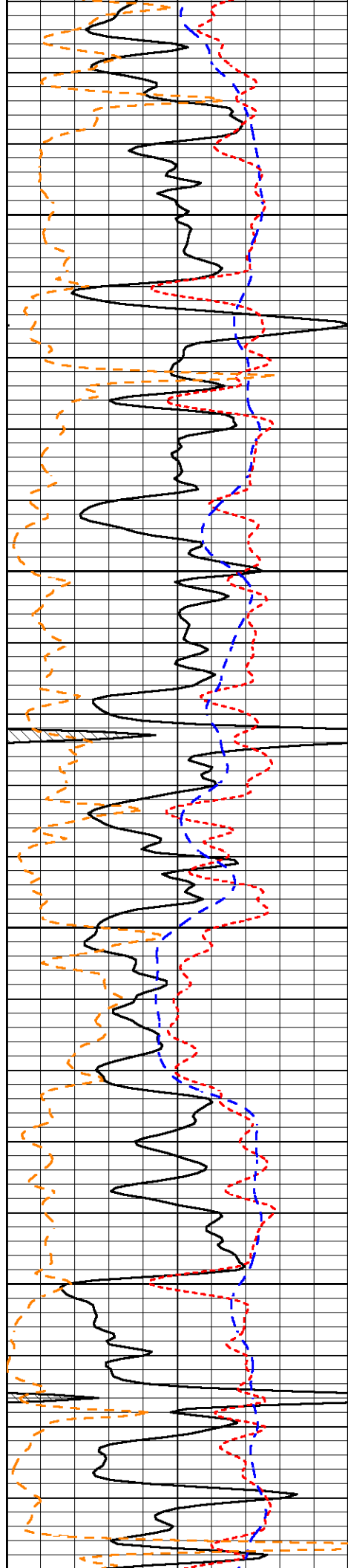
-32

-32

-32

-31

-33

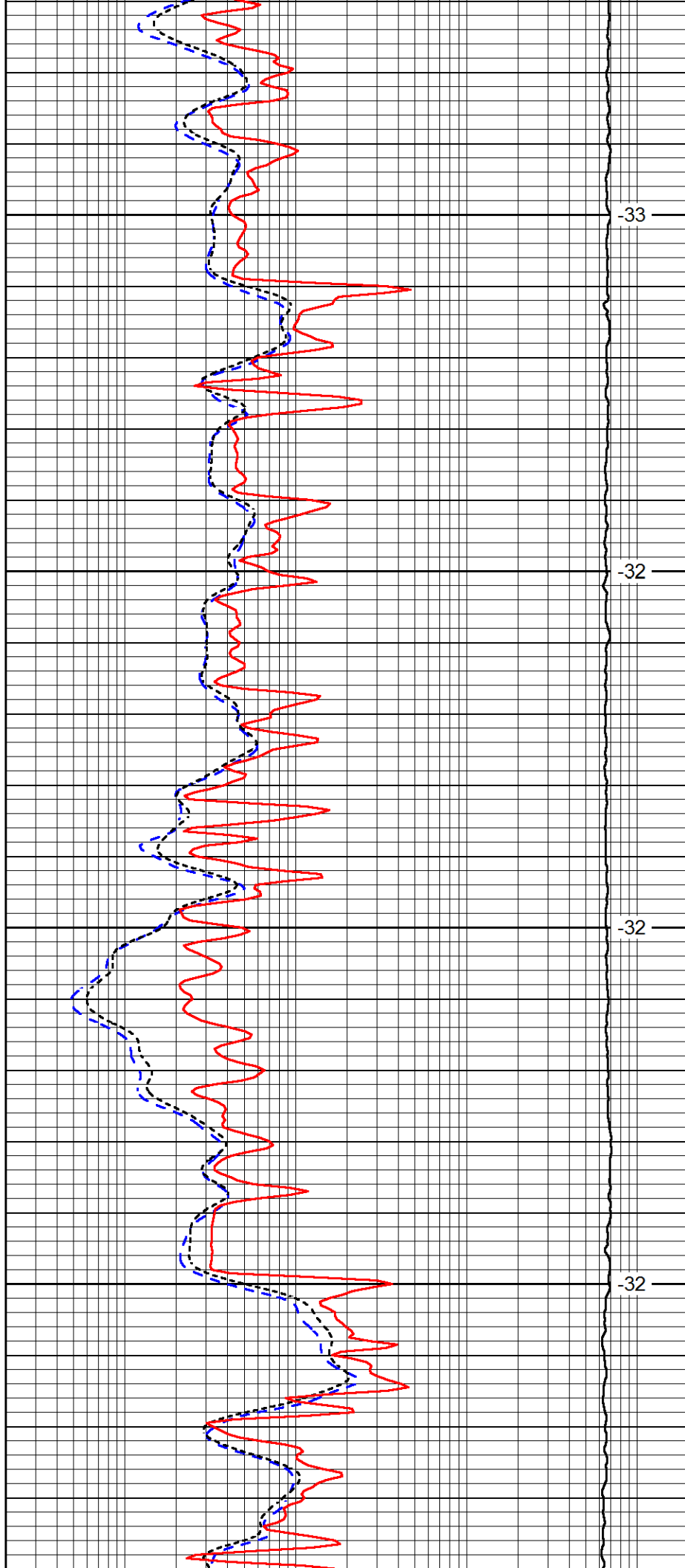


2200

2250

2300

2350

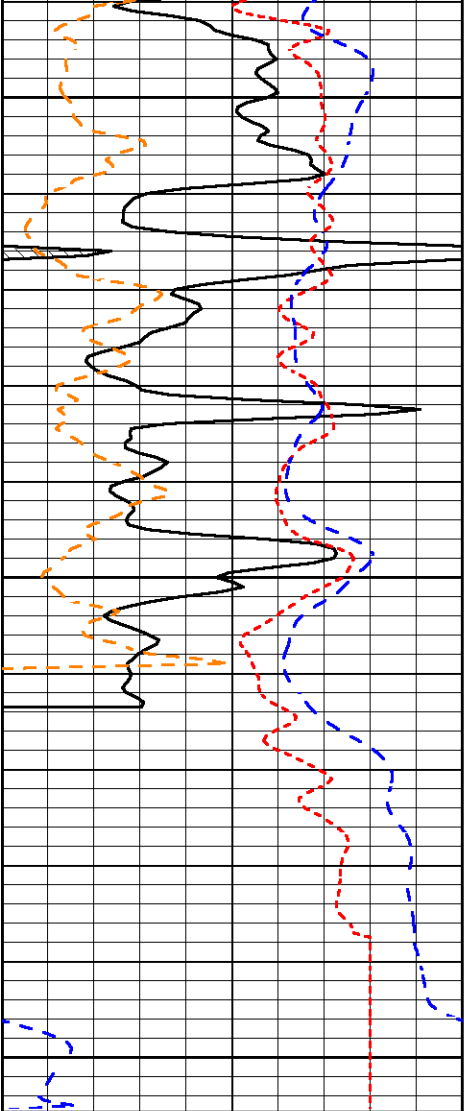


-33

-32

-32

-32

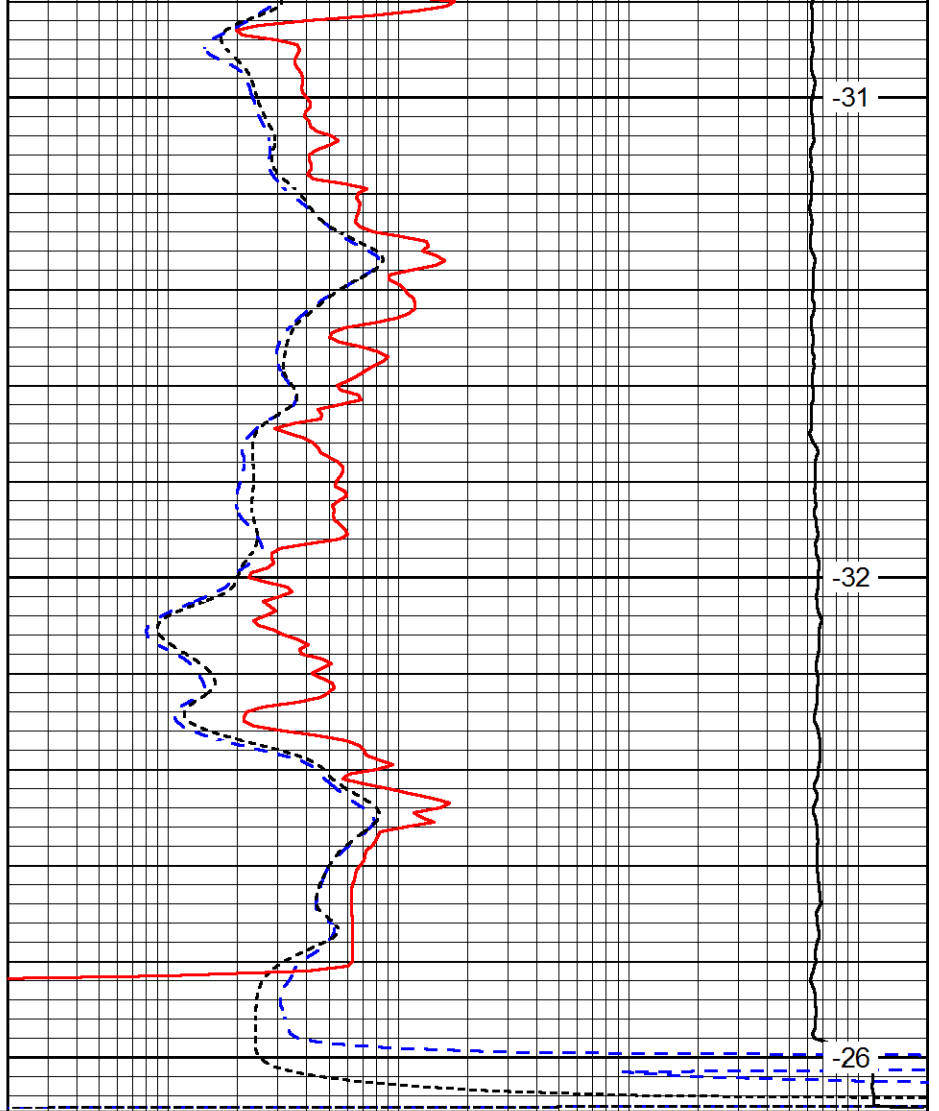


0	Gamma Ray (GAPI)	150
-160	RxoRt	40
-200	SP (mV)	0
0	RWA	0.5

2400

2450

2500



0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

-31

-32

-26

LSPD
(ft/min)