



DUAL INDUCTION LOG

Pioneer Energy Services

Company TEXKAN EXPLORATION, LLC		Company TEXKAN EXPLORATION, LLC	
Well	SAUER "A" NO. 8	Well	SAUER "A" NO. 8
Field	BOLLIG	Field	BOLLIG
County	GRAHAM	County	GRAHAM
State	KANSAS	State	KANSAS
Location: API #: 15-065-24110-00-00		Other Services	
990' FSL & 330' FEL		CNL/CDL MEL/BHCS RAG	
Permanent Datum	GROUND LEVEL	Elevation	2568'
Log Measured From	KELLY BUSHING	K.B.	2575'
Drilling Measured From	KELLY BUSHING	D.F.	N/A
		G.L.	2568'
Date	8/23/15		
Run Number	TWO		
Depth Driller	4166'		
Depth Logger	4156'		
Bottom Logged Interval	4155'		
Top Log Interval	200'		
Casing Driller	8.625" @ 219'		
Casing Logger	218'		
Bit Size	7.875"		
Type Fluid in Hole	CHEMICAL		
Salinity, ppm CL	2,200		
Density / Viscosity	9.4 51		
pH / Fluid Loss	10.5 7.2		
Source of Sample	Flowline		
Rm @ Meas. Temp	.86 @ 78		
Rmt @ Meas. Temp	.65 @ 78		
Rmc @ Meas. Temp	1.16 @ 78		
Source of Rmt / Rmc	Charts		
Rm @ BHT	.57 @ 118		
Operating Rig Time	5 HOURS		
Max Rec. Temp. F	118		
Equipment Number	108		
Location	Hays		
Recorded By	J. HENRICKSON		
Witnessed By	BILL ROBINSON		

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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.

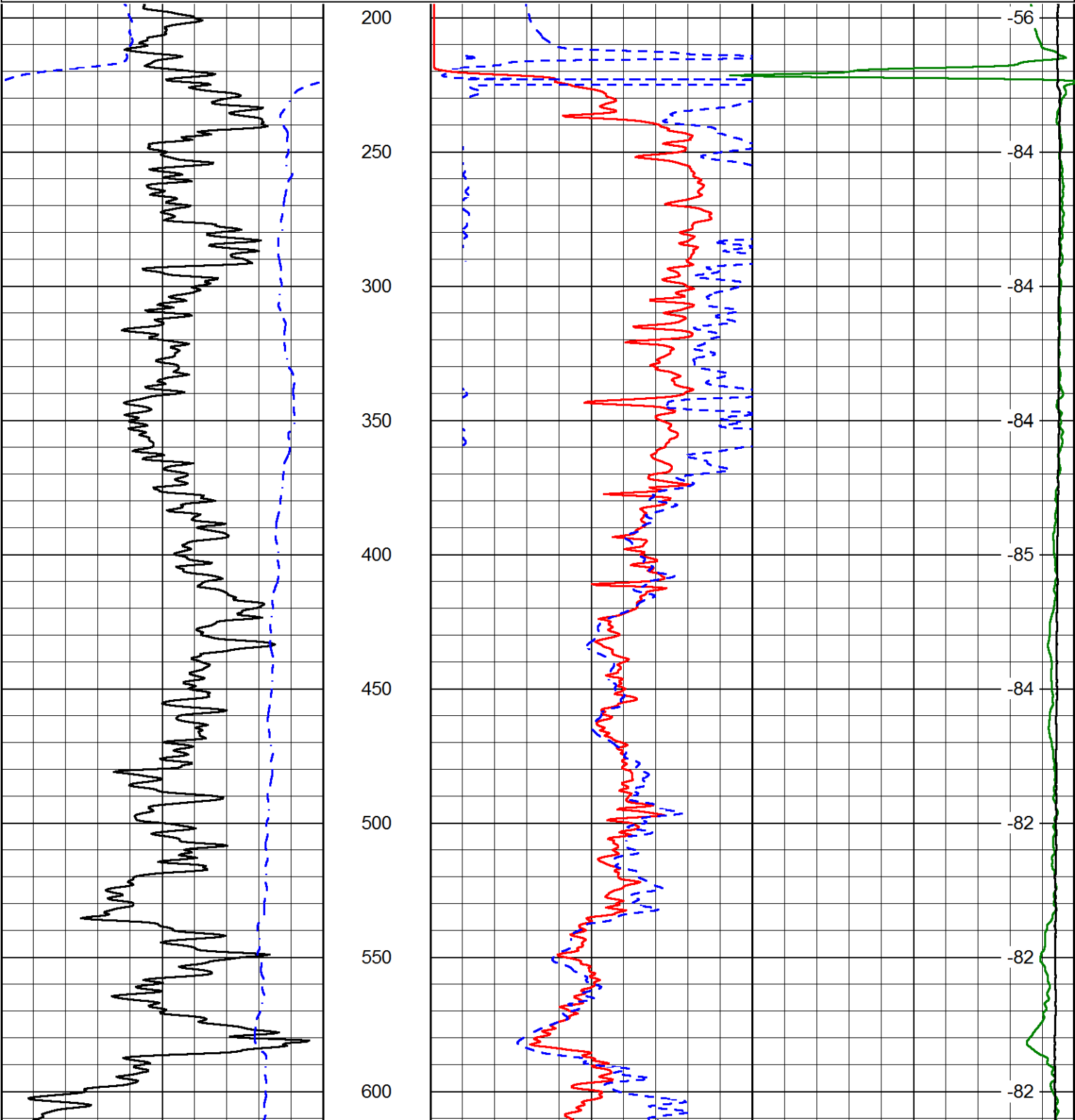
WAKEENEY KANSAS
NORTH TO RED LINE RD, 14 WEST, 1/4 NORTH, WEST INTO

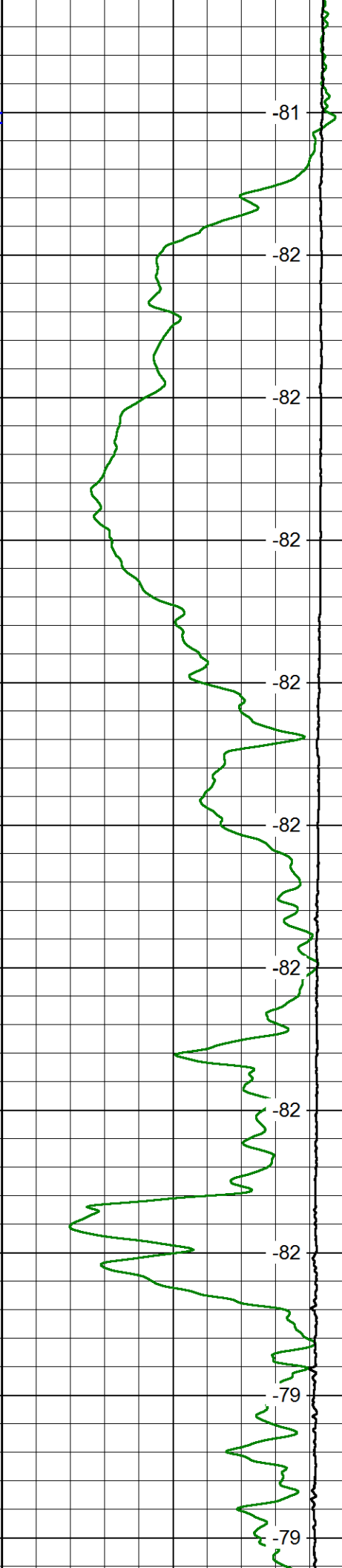
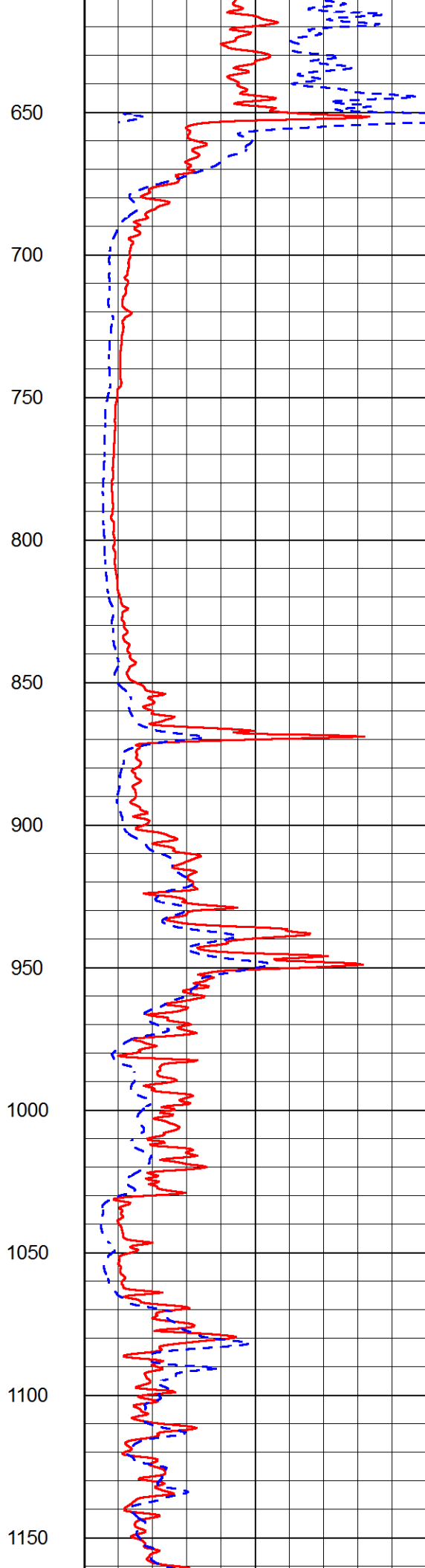
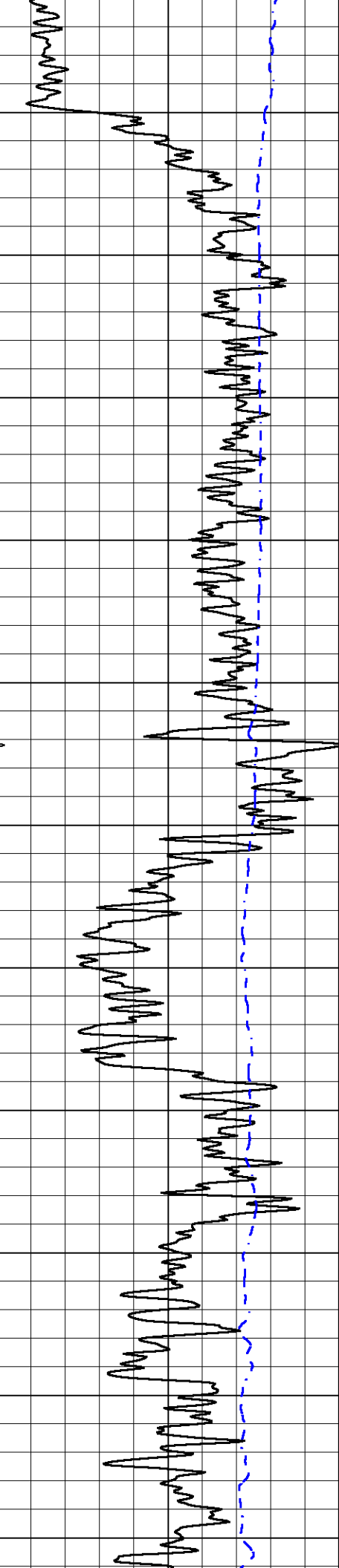
Log Measured From: KELLY BUSHING 7 Ft. Above Permanent Datum

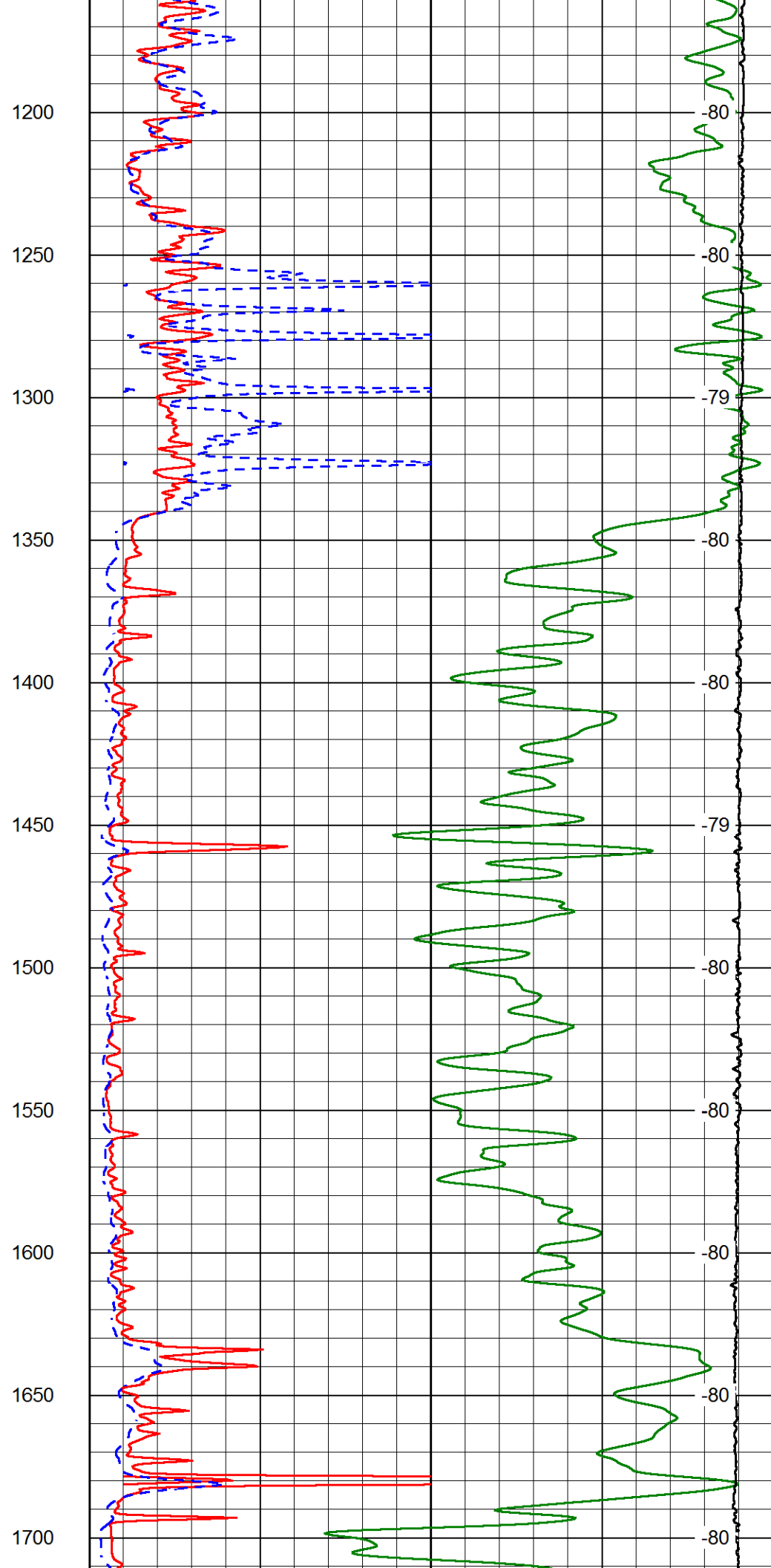
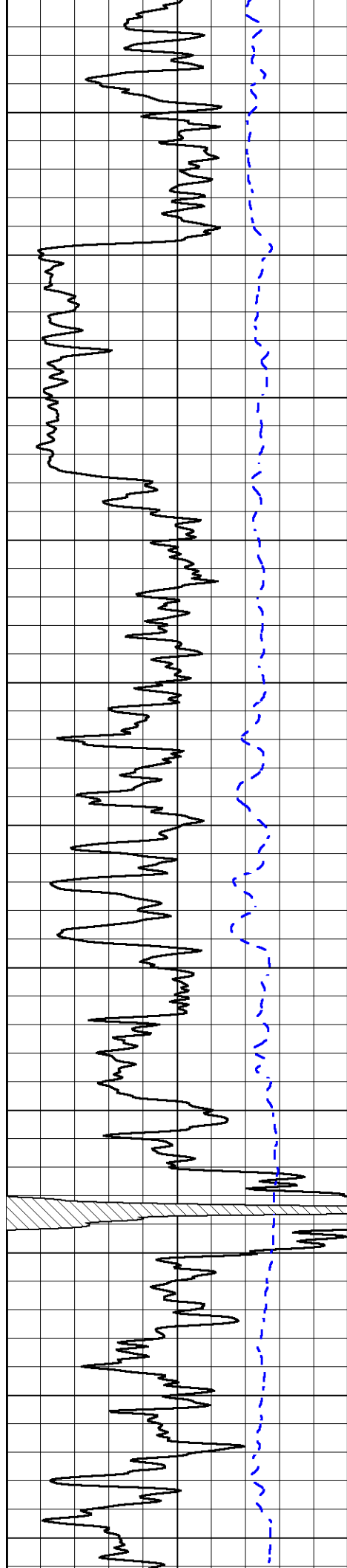
THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneerenergy.com 785-625-3858

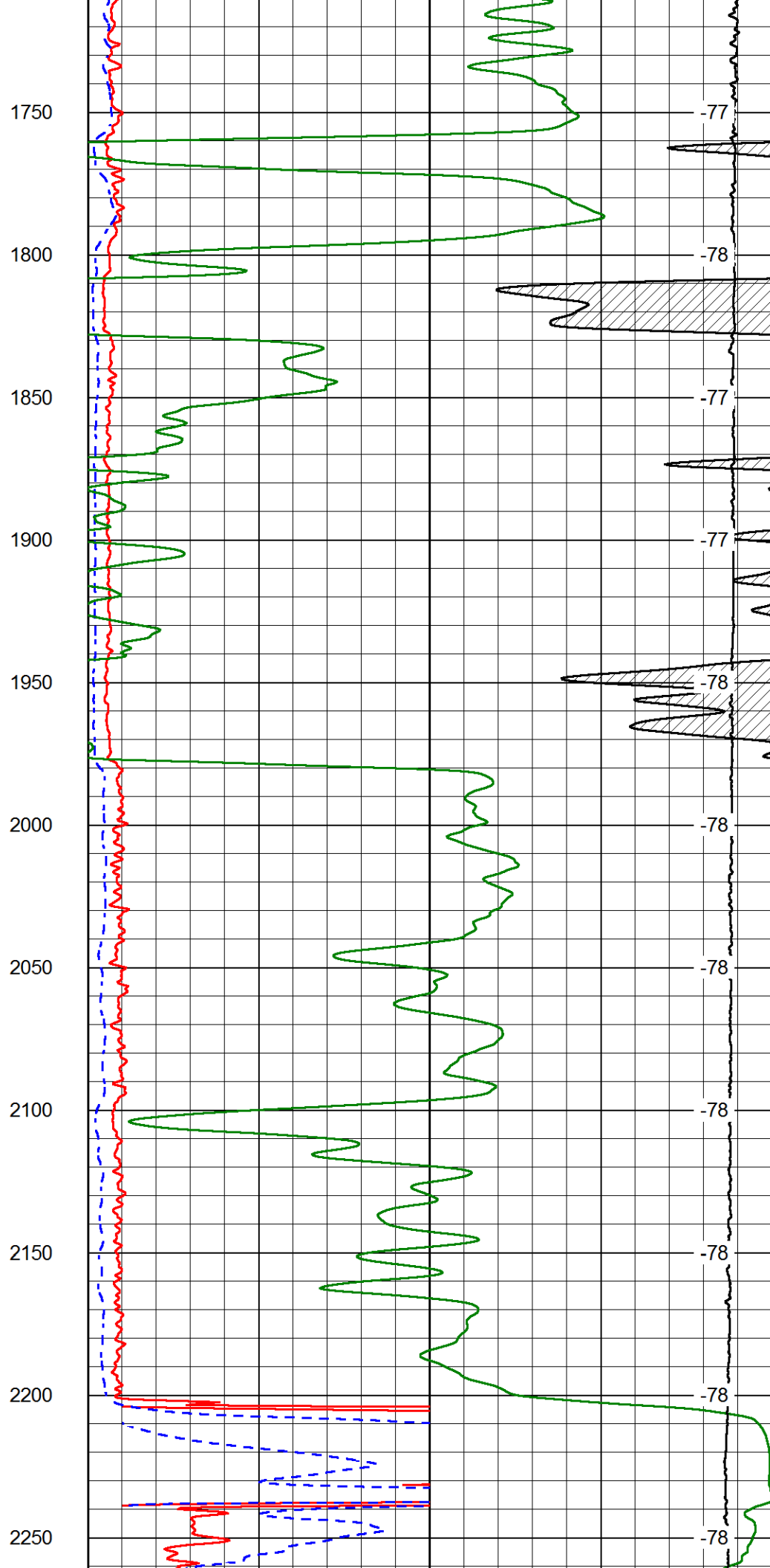
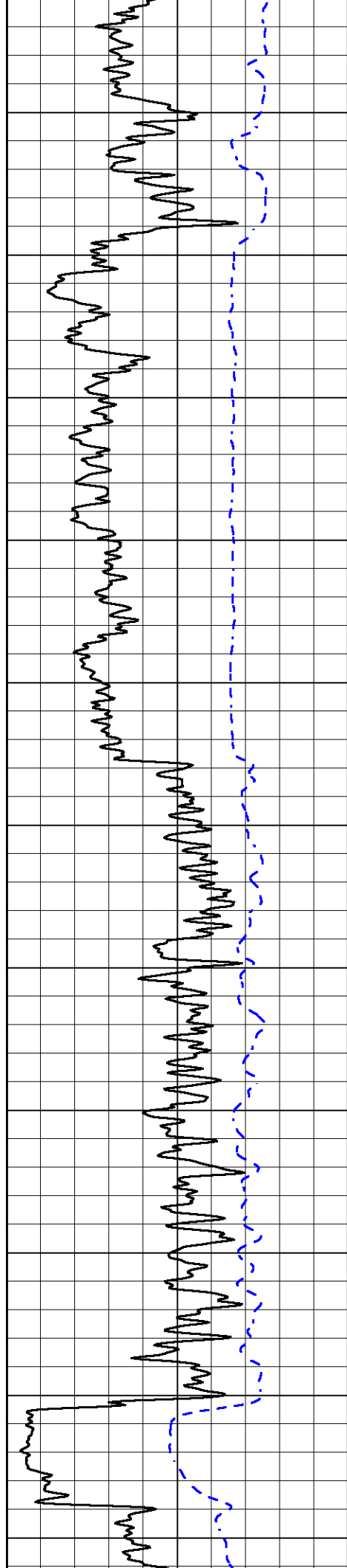
Your Pioneer Energy Services Crew		This Log Record Was Witnessed By	
Engineer: J. HENRICKSON		Primary Witness: BILL ROBINSON	
Operator:		Secondary Witness:	
Operator:		Secondary Witness:	
Operator:		Secondary Witness:	

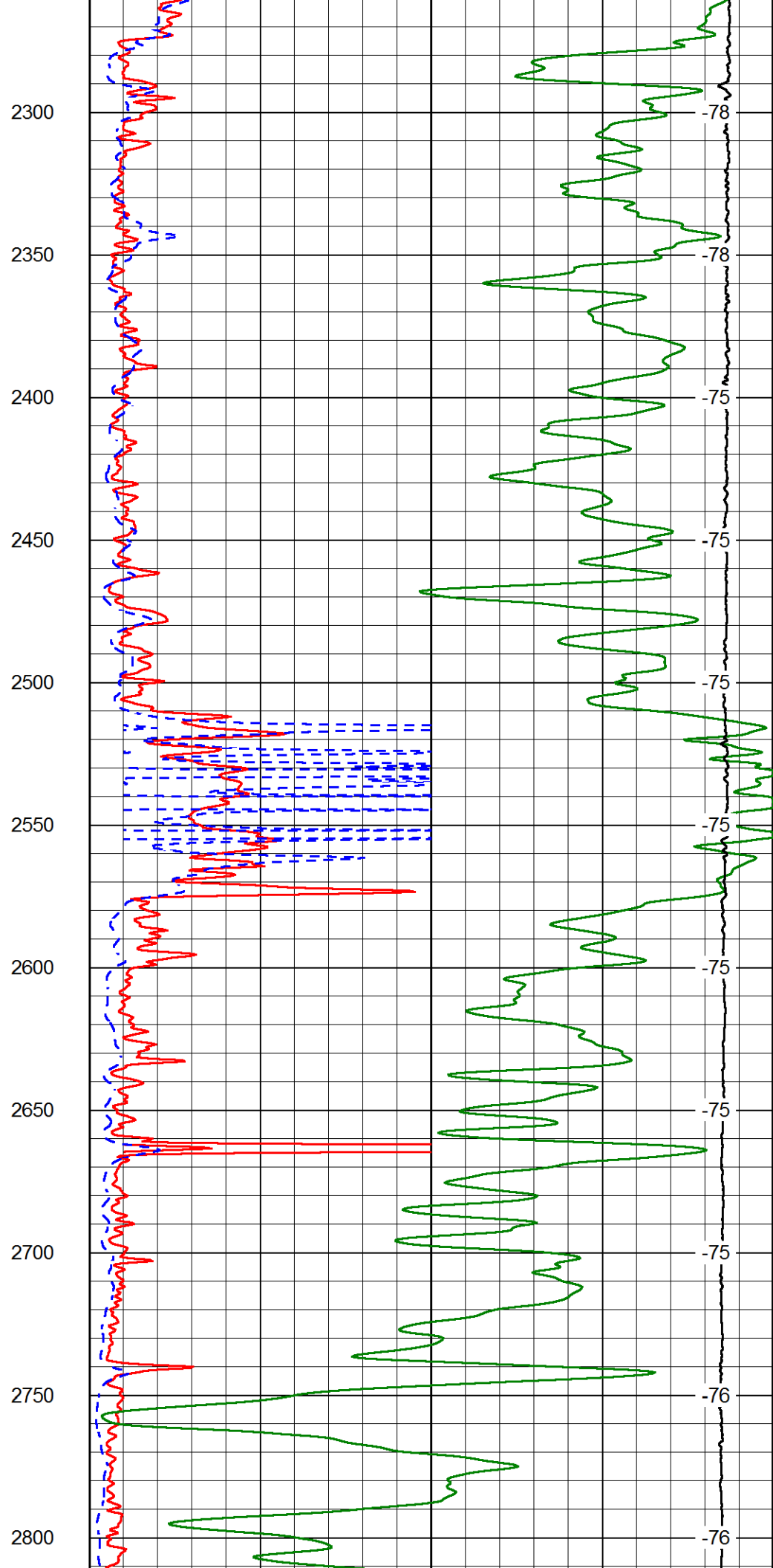
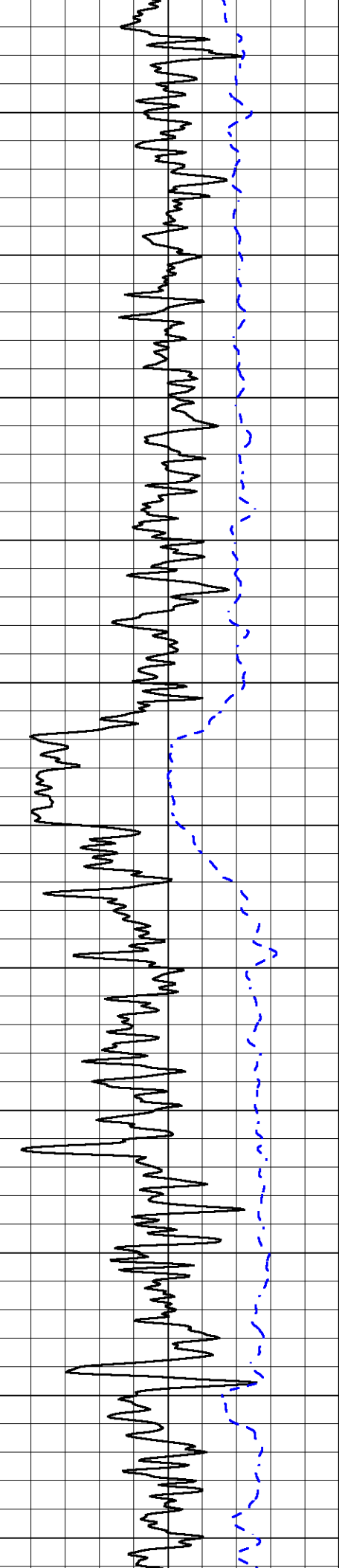
0	Gamma Ray (GAPI)	150	1000	Conductivity	0
-200	SP (mV)	0	15000	Line Tension (lb)	0
			0	Shallow Resistivity (Ohm-m)	50
			0	Deep Resistivity (Ohm-m)	50
			LSPD (ft/min)		
			Shallow Resistivity		
			50	(Ohm-m)	500
			50	Deep Resistivity (Ohm-m)	500

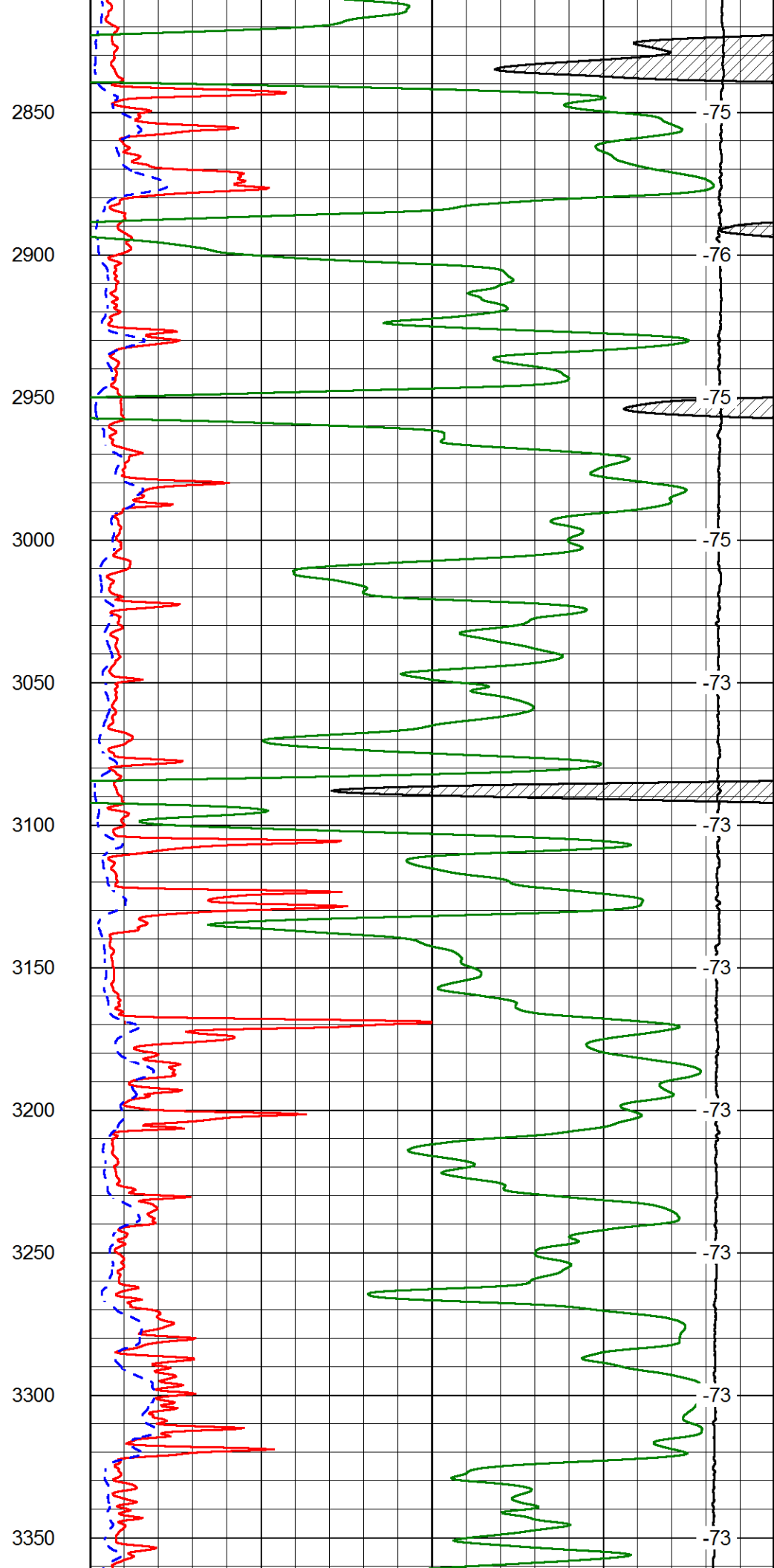
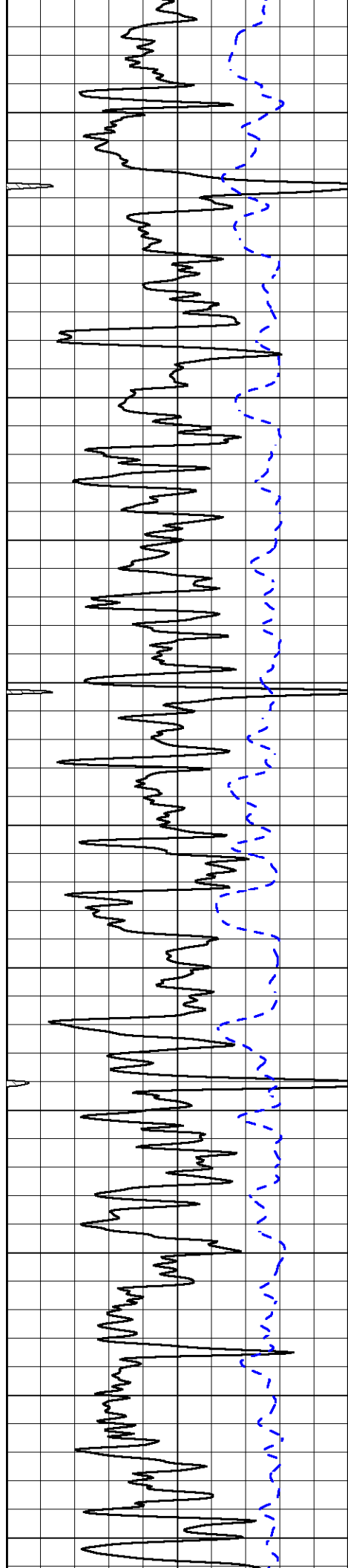


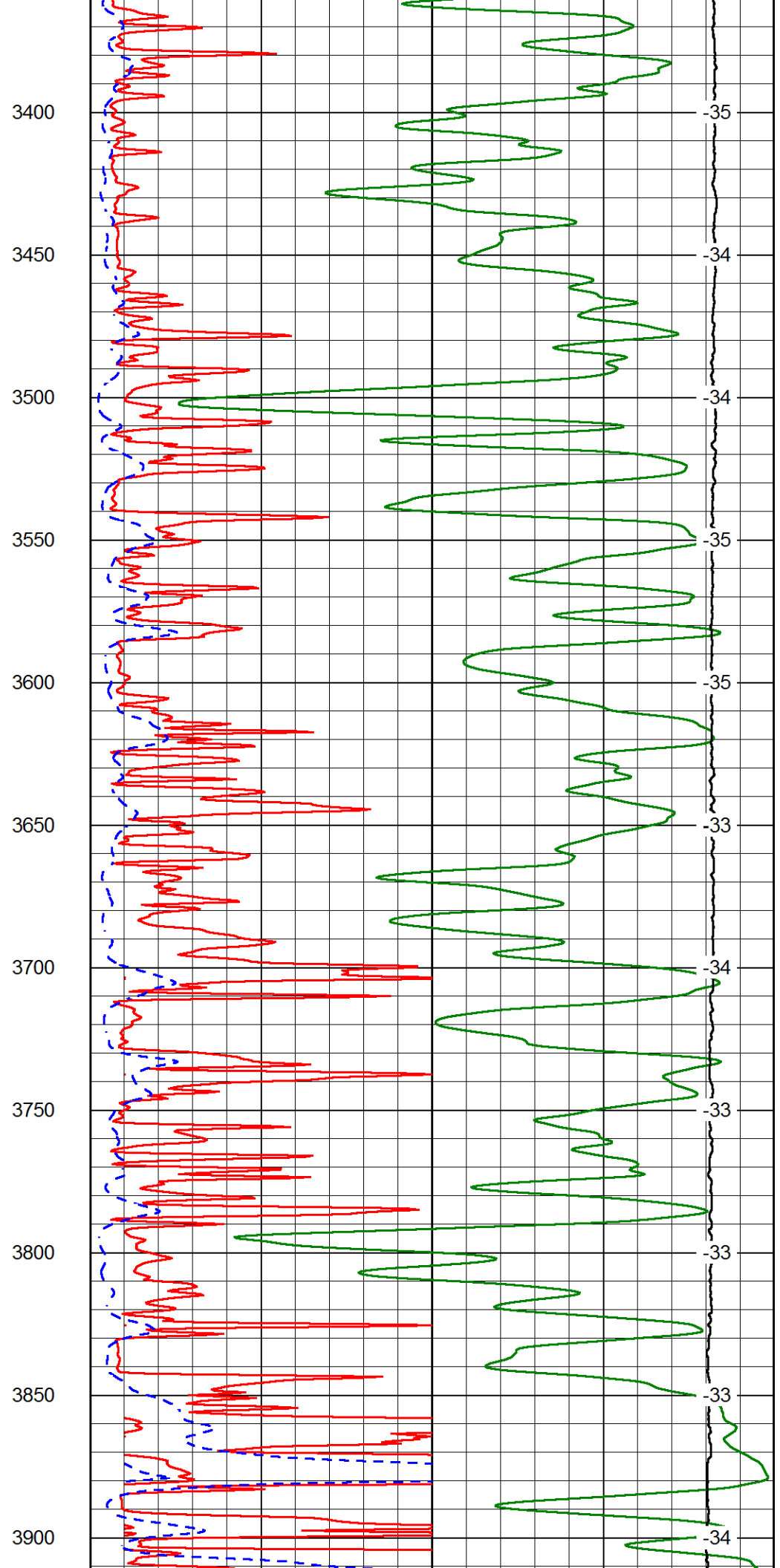
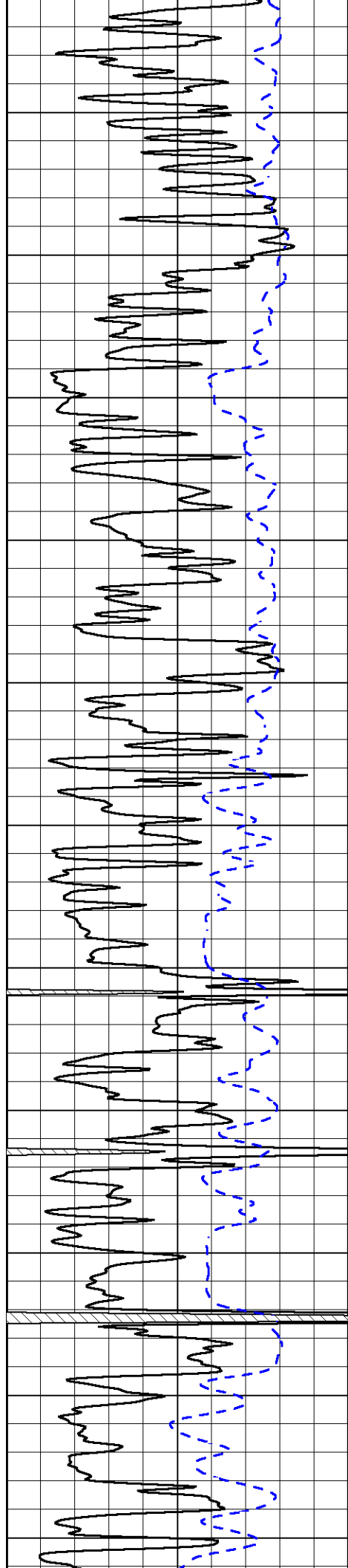


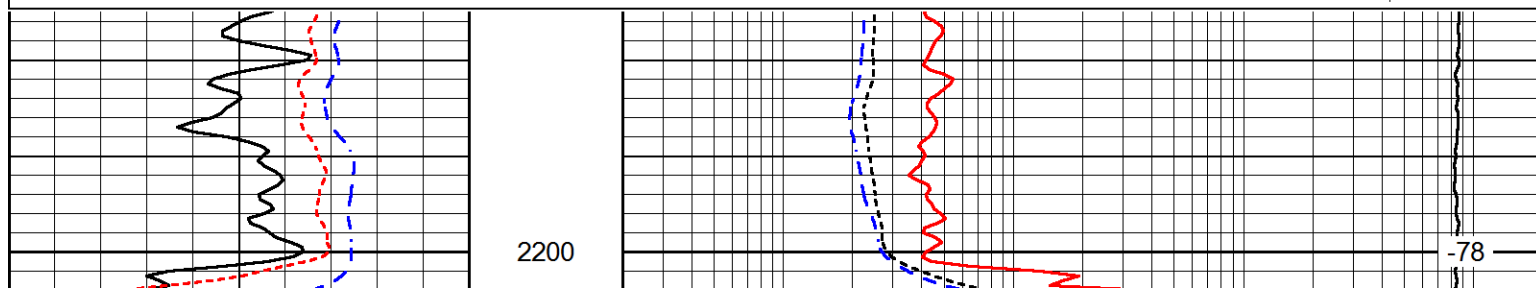
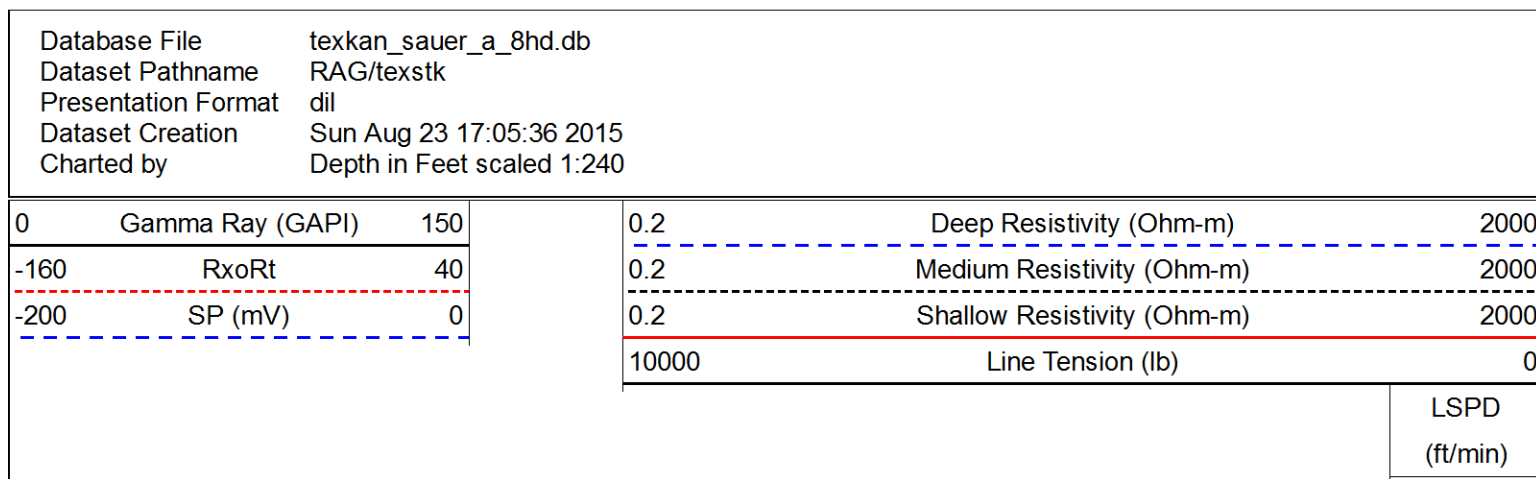
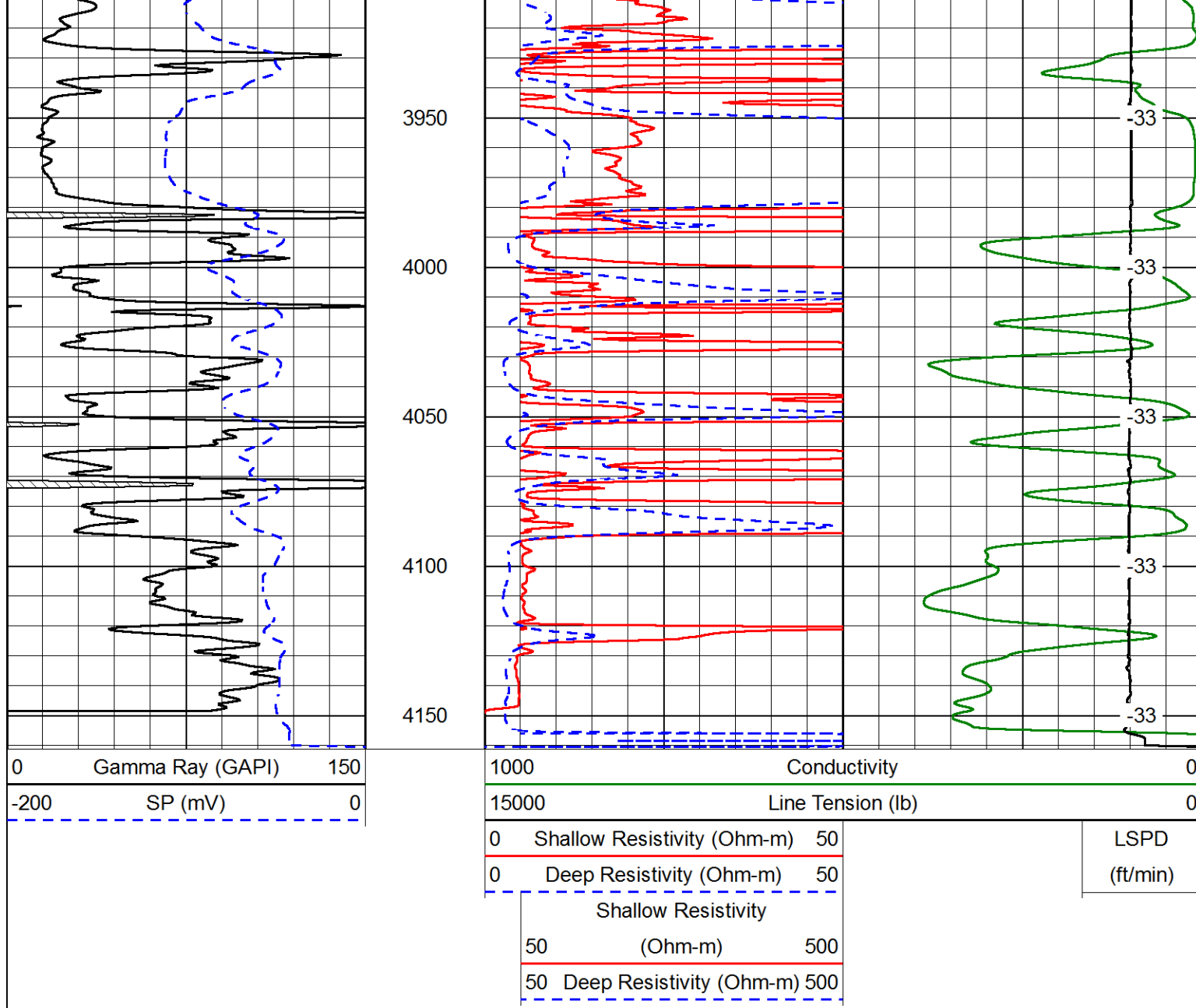


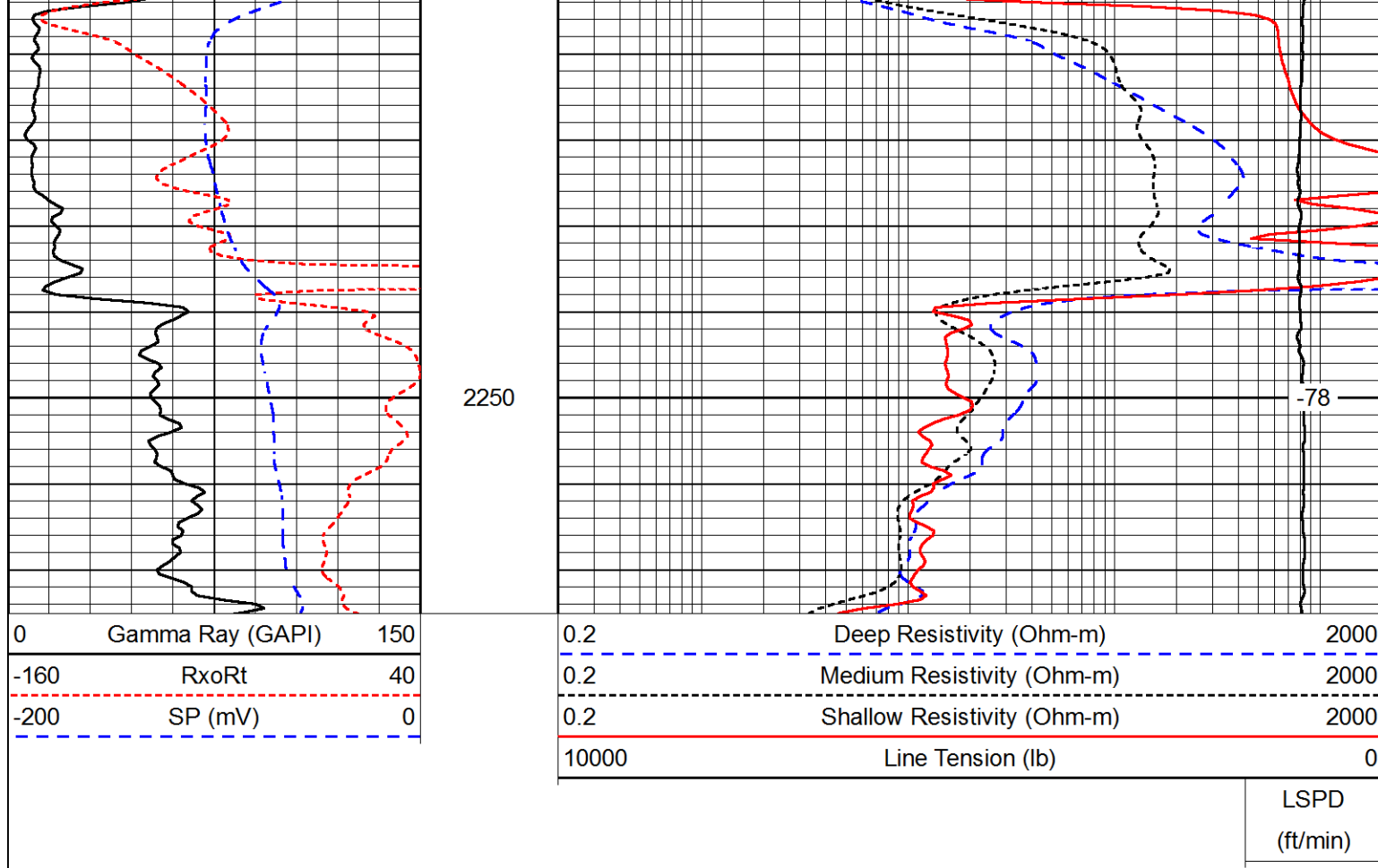










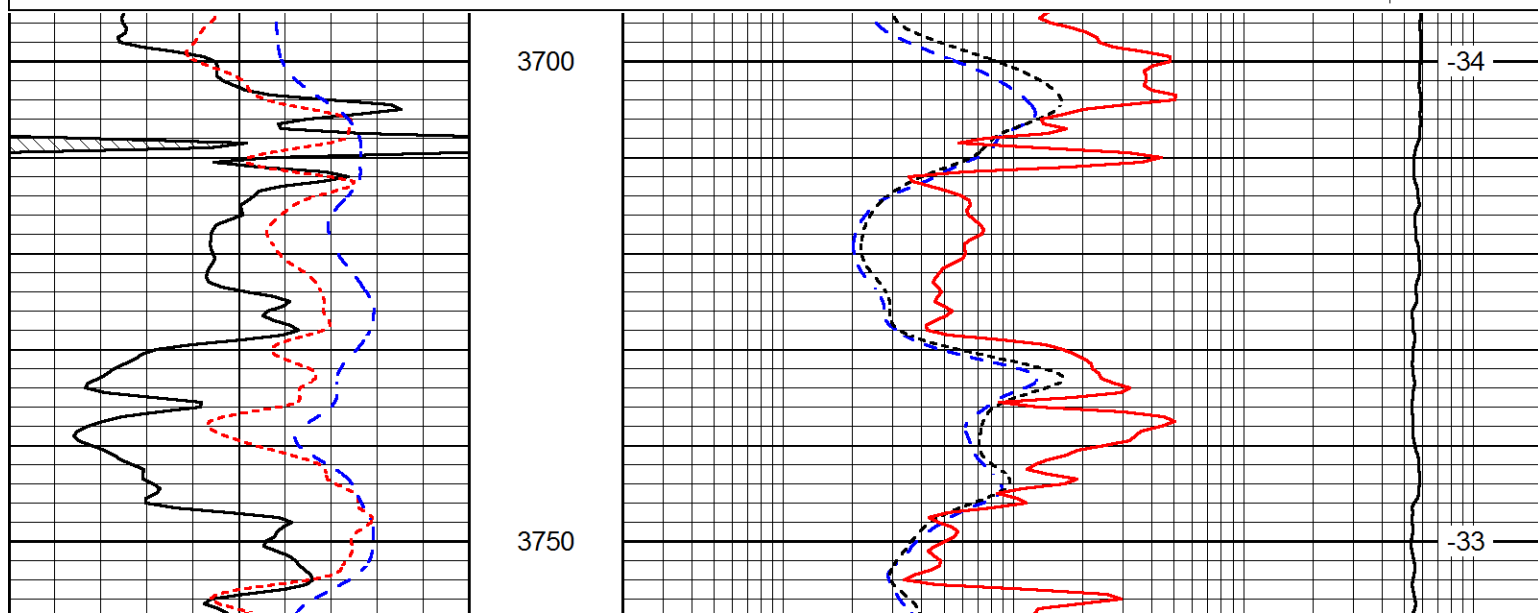


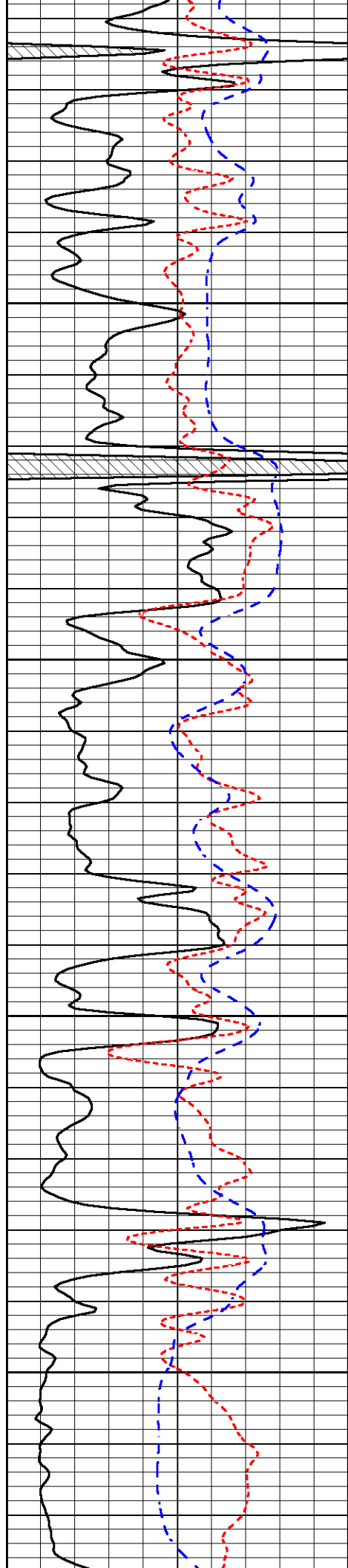
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Dataset Pathname	RAG/textsk
Presentation Format	dil
Dataset Creation	Sun Aug 23 17:05:36 2015
Charted by	Depth in Feet scaled 1:240

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

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)



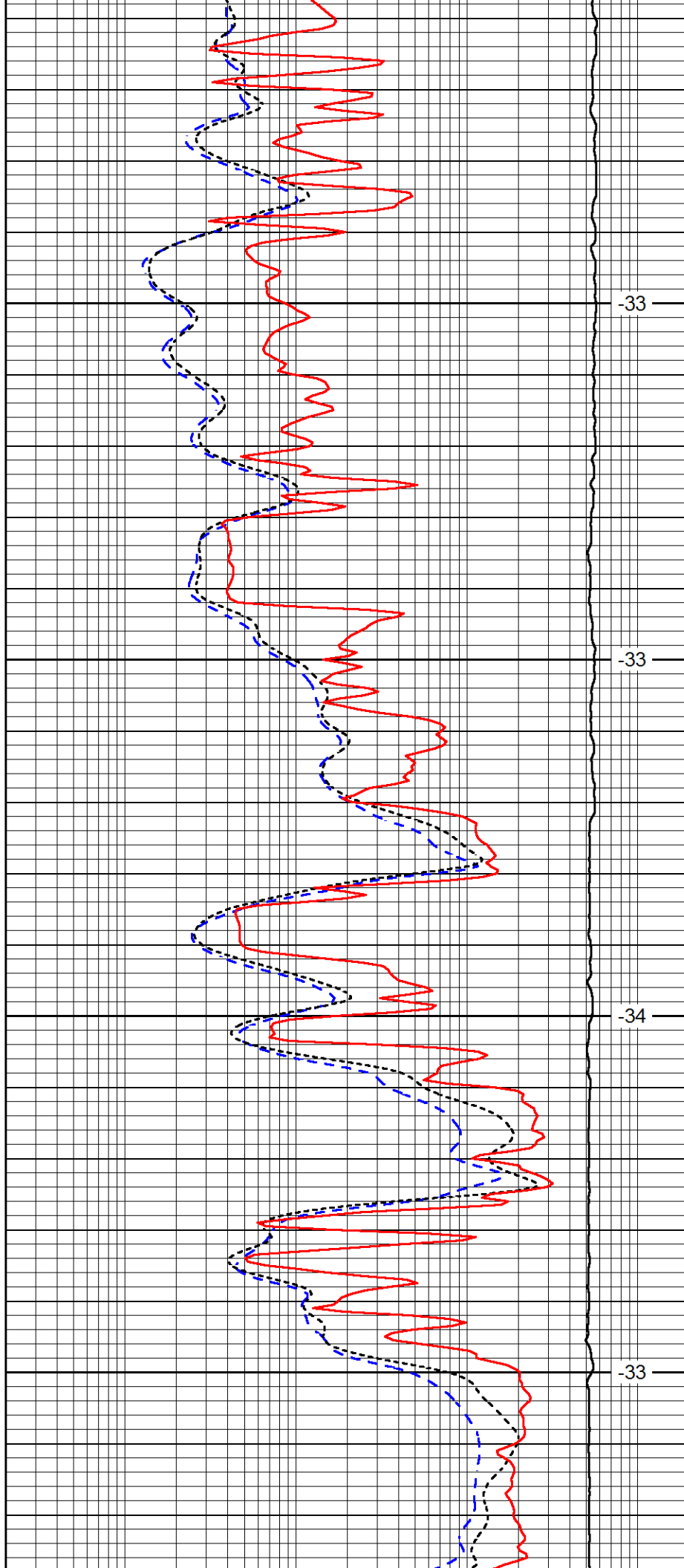


3800

3850

3900

3950

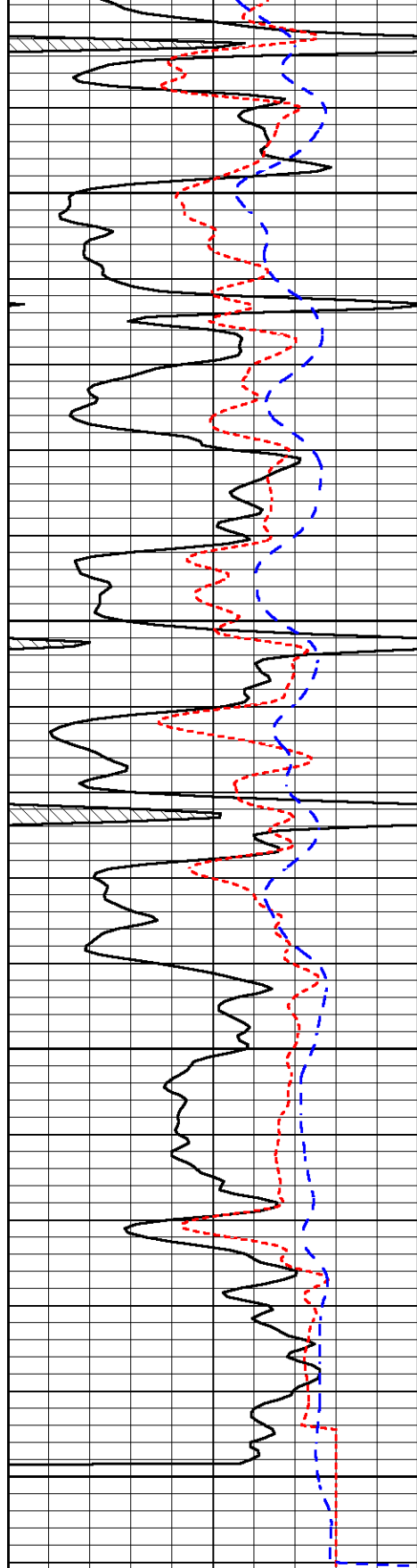


-33

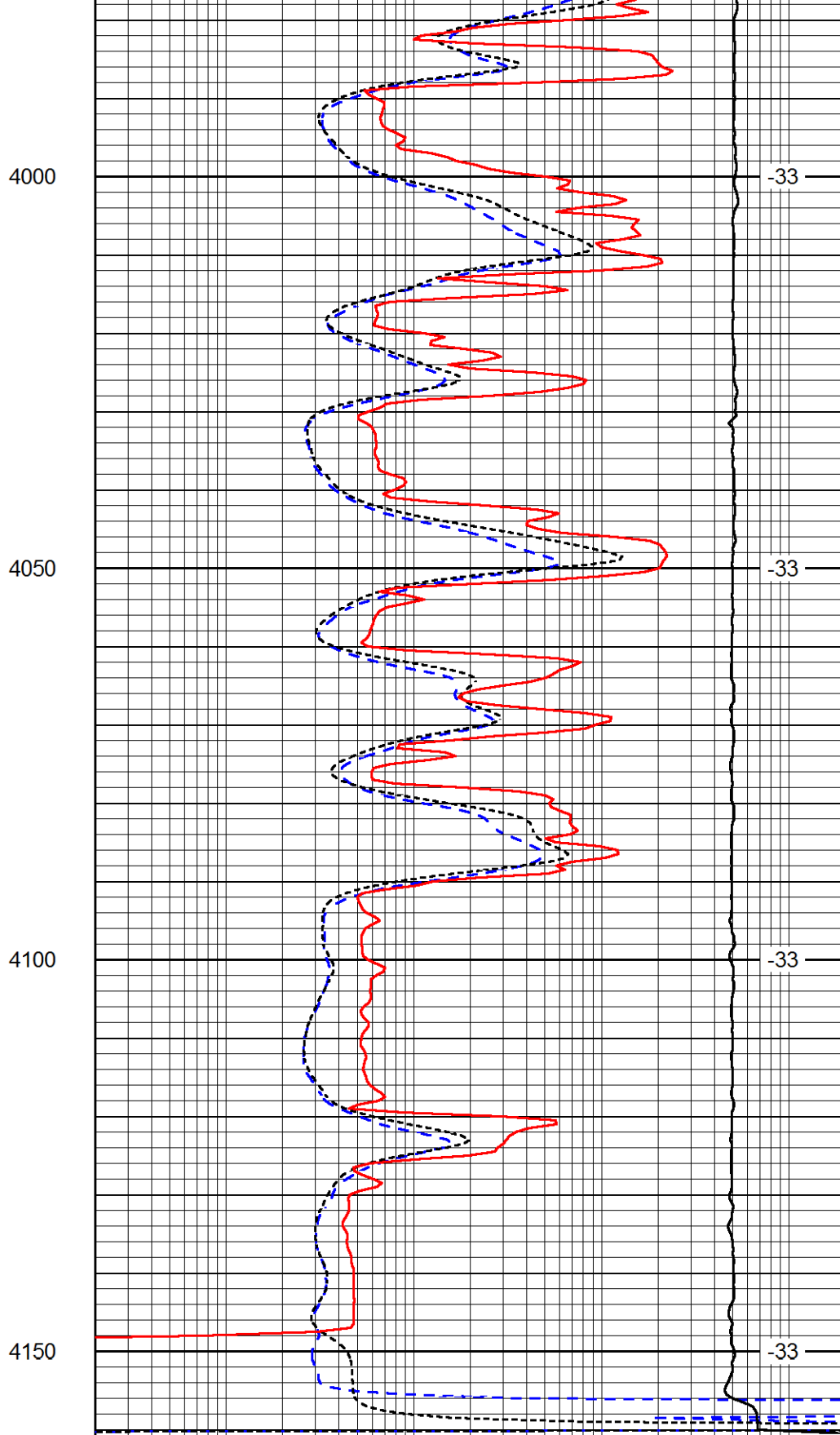
-33

-34

-33



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



0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
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LSPD
(ft/min)