



DUAL INDUCTION LOG

CompanyAMERICAN WARRIOR, INC.		Company	AMERICAN WARRIOR, INC.
Well	REIN #5-23	Well	REIN #5-23
Field	SCHABEN NORTHWEST	Field	SCHABEN NORTHWEST
County	NESS	County	NESS
State	KANSAS	State	KANSAS
Location:		API # : 15-135-25872-00-00	Other Services
530' FNL & 2300' FEL		DUCP	
SEC 23	TWP 19S	RGE 22W	
Permanent Datum	GROUND LEVEL	Elevation	2224
Log Measured From	KELLY BUSHING	K.B.	2232
Drilling Measured From	KELLY BUSHING	D.F.	N/A
		G.L.	2224
Date	6/24/2015		
Run Number	ONE		
Depth Driller	4372		
Depth Logger	4368		
Bottom Logged Interval	4367		
Top Log Interval	200		
Casing Driller	8.625 @ 230		
Casing Logger	229		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL		
Salinity, ppm CL	5,700		
Density / Viscosity	9.1 60		
pH / Fluid Loss	9.0 9.2		
Source of Sample	Flowline		
Rm @ Meas. Temp	.45 @ 60		
Rmf @ Meas. Temp	.34 @ 60		
Rmc @ Meas. Temp	.61 @ 60		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.23 @ 120		
Operating Rig Time	3 HOURS		
Max Rec. Temp. F	120		
Equipment Number	15		
Location	HAYS		
Recorded By	J. HENRICKSON		
Witnessed By	JASON ALM		

<<< Fold Here >>>

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.

BAZINE KANSAS
4 SOUTH, 1 1/2 WEST, SOUTH INTO

Log Measured From: KELLY BUSHING 8 Ft. Above Permanent Datum

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

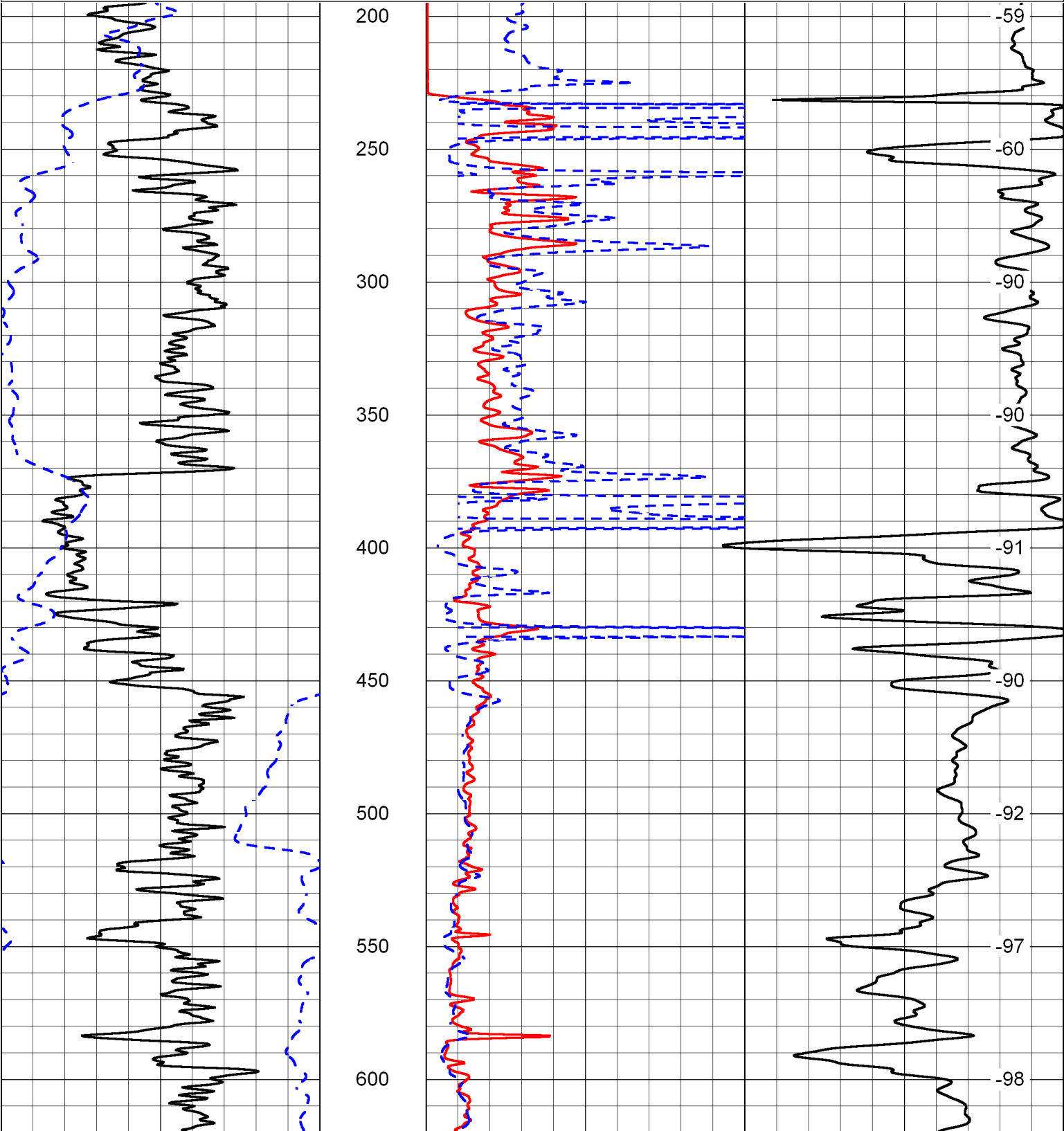
Your Pioneer Energy Services Crew

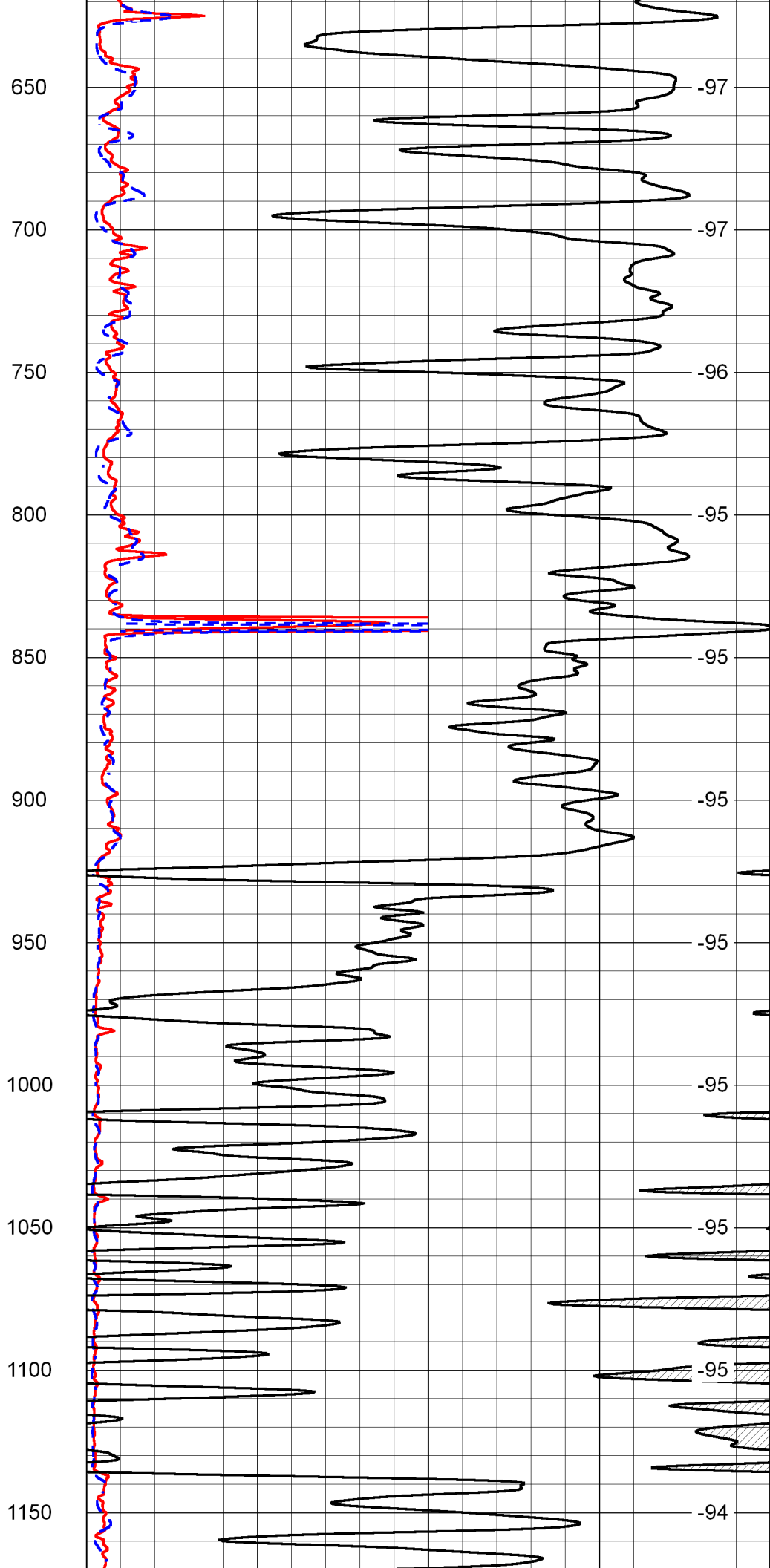
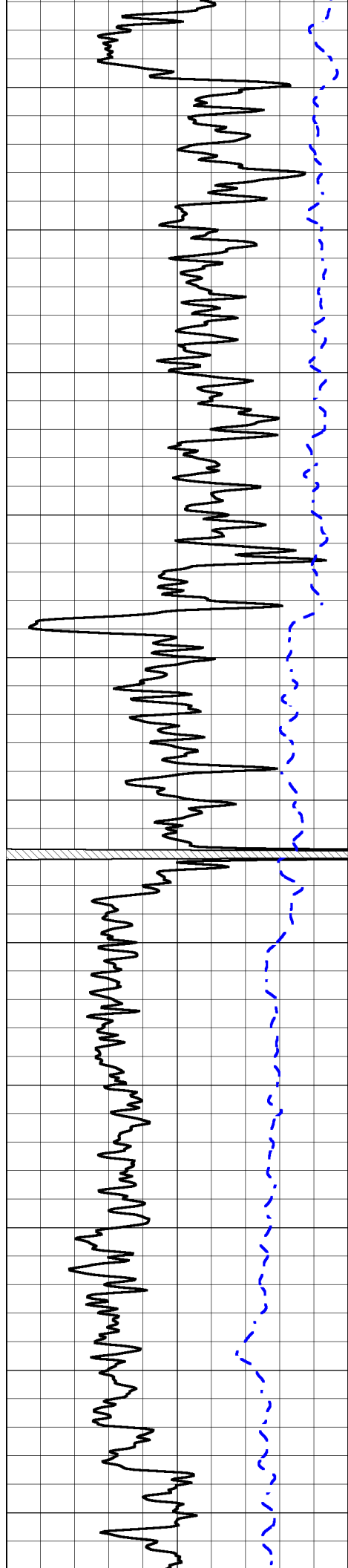
Engineer: J. HENRICKSON
Operator:
Operator:
Operator:

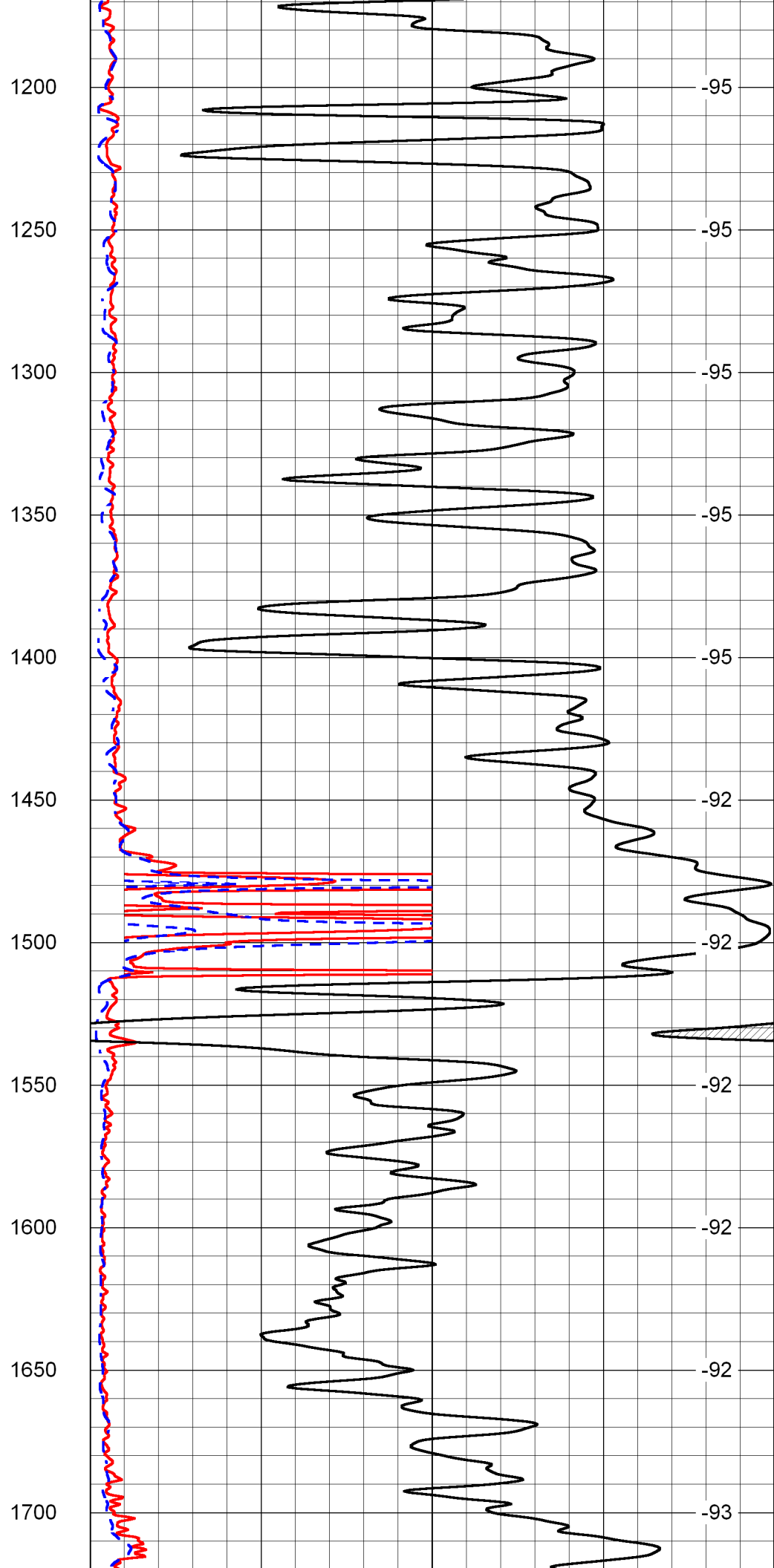
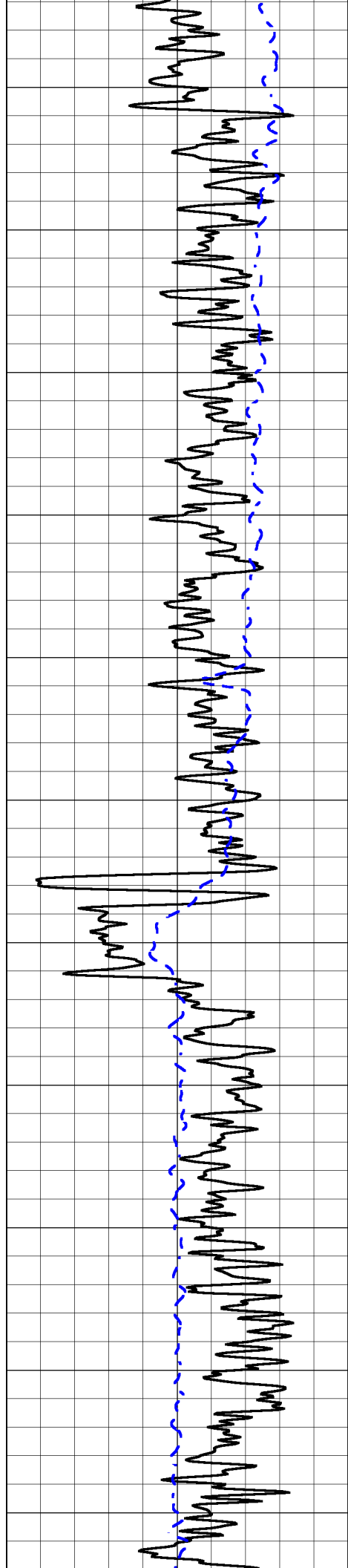
This Log Record Was Witnessed By

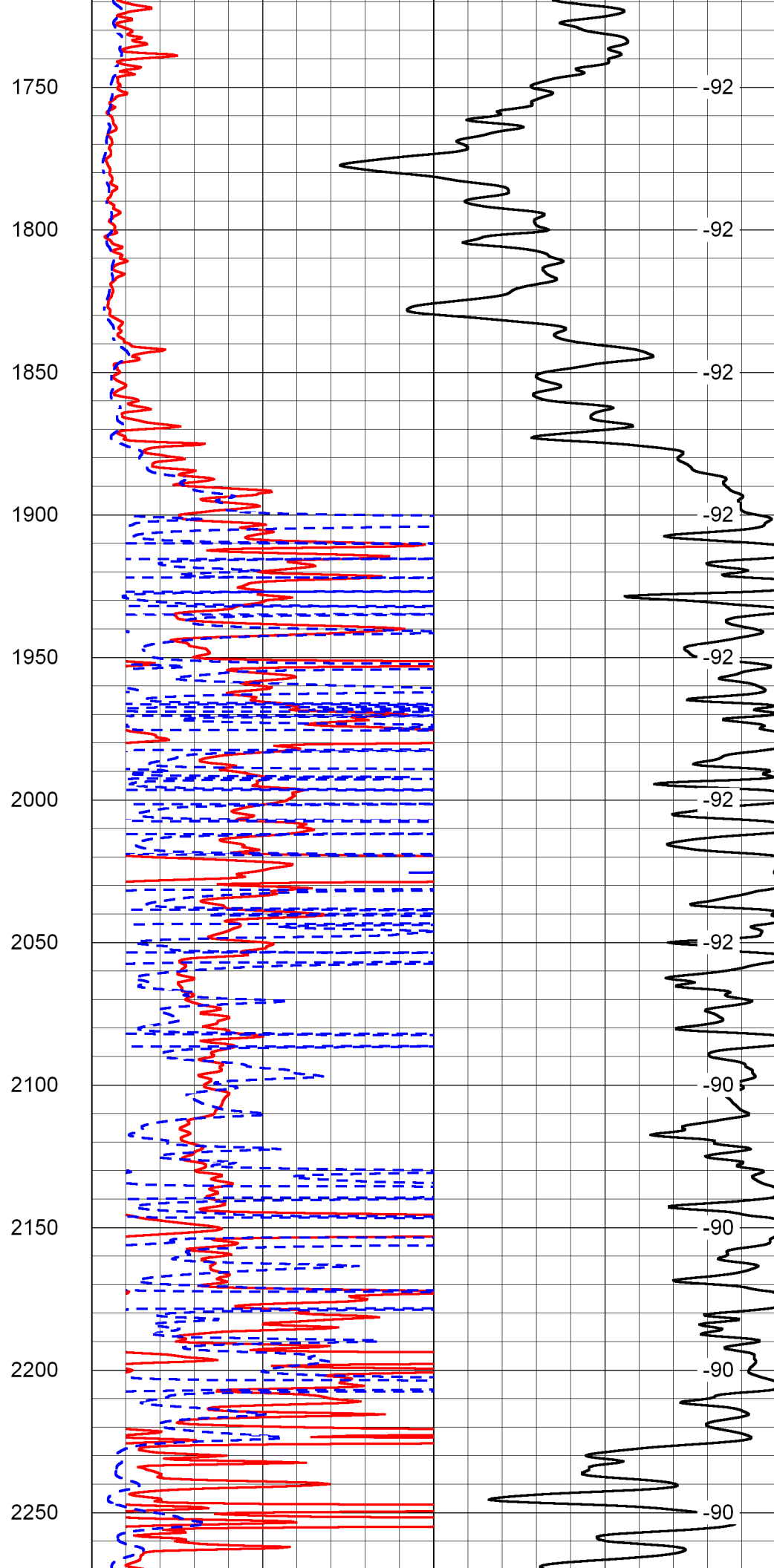
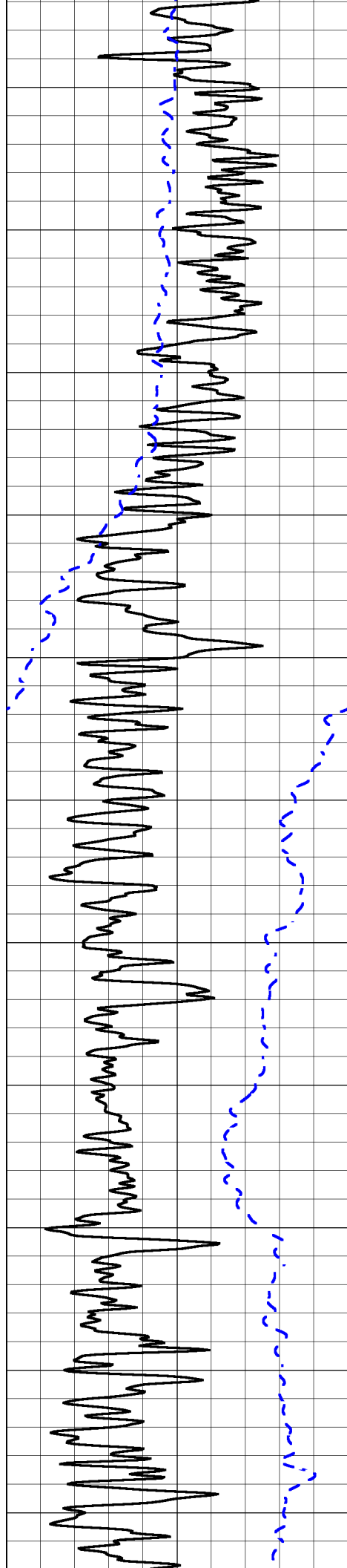
Primary Witness: JASON ALM
Secondary Witness:
Secondary Witness:
Secondary Witness:

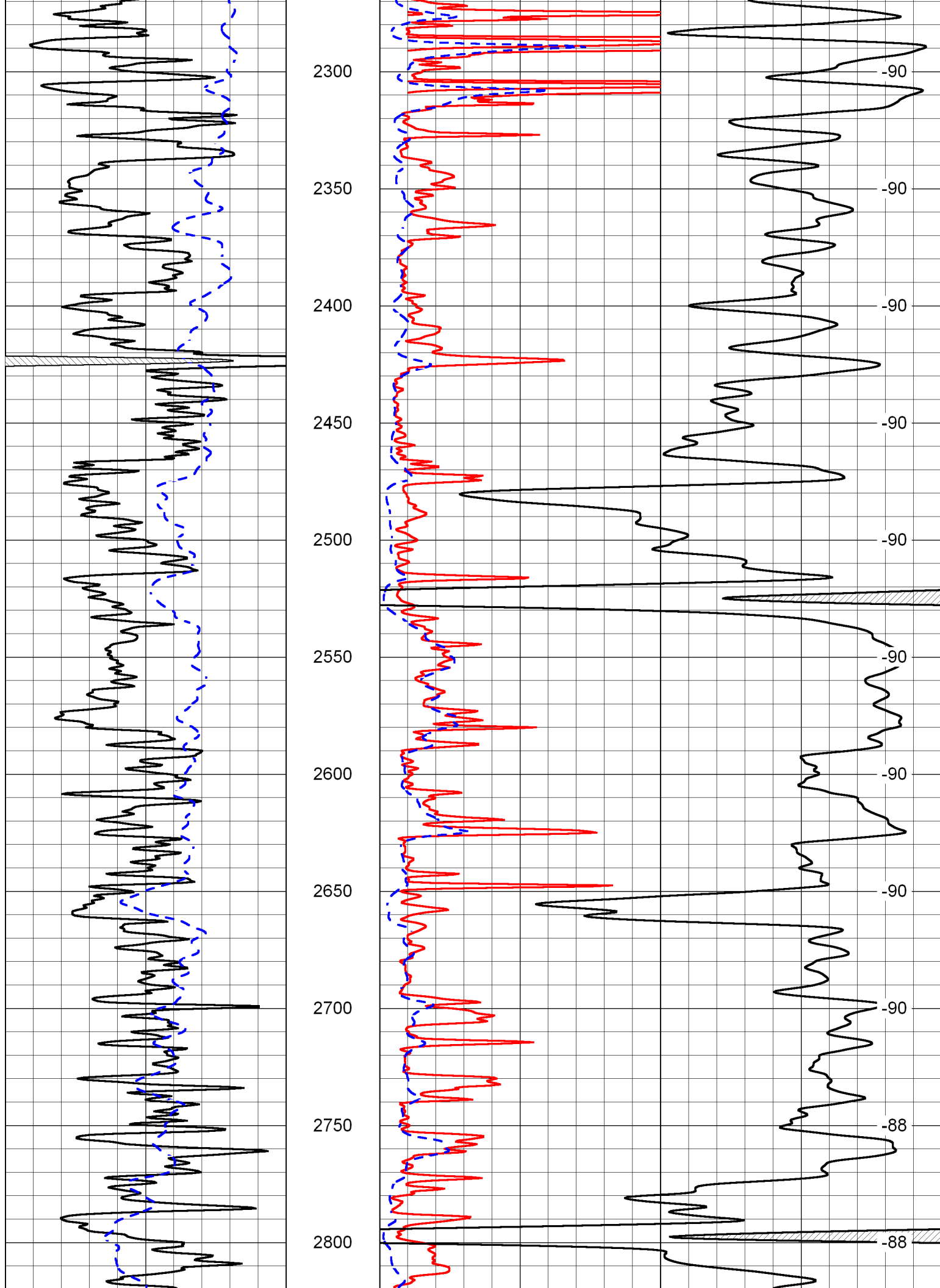
0	Gamma Ray	150	1000	Conductivity	0
-200	SP (mV)	0	15000	Line Tension	0
			0	Shallow Resistivity	50
			0	Deep Resistivity	50
			50	Shallow Resistivity	500
			50	Deep Resistivity	500
					LSPD

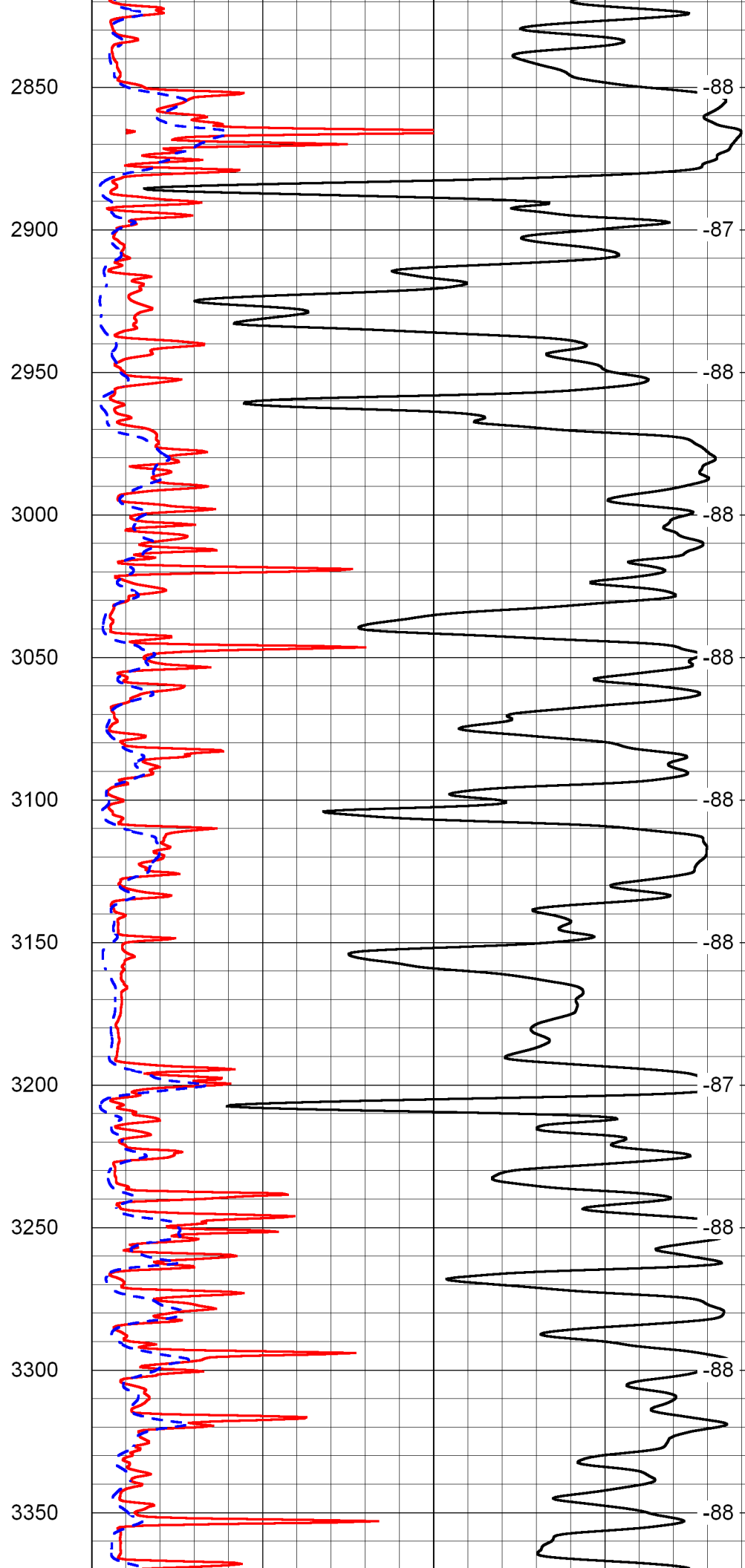
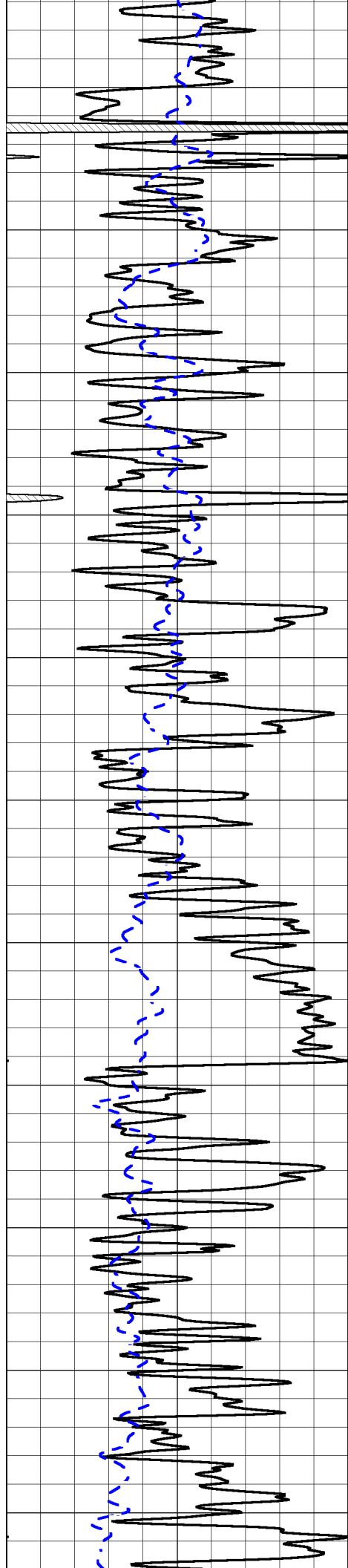


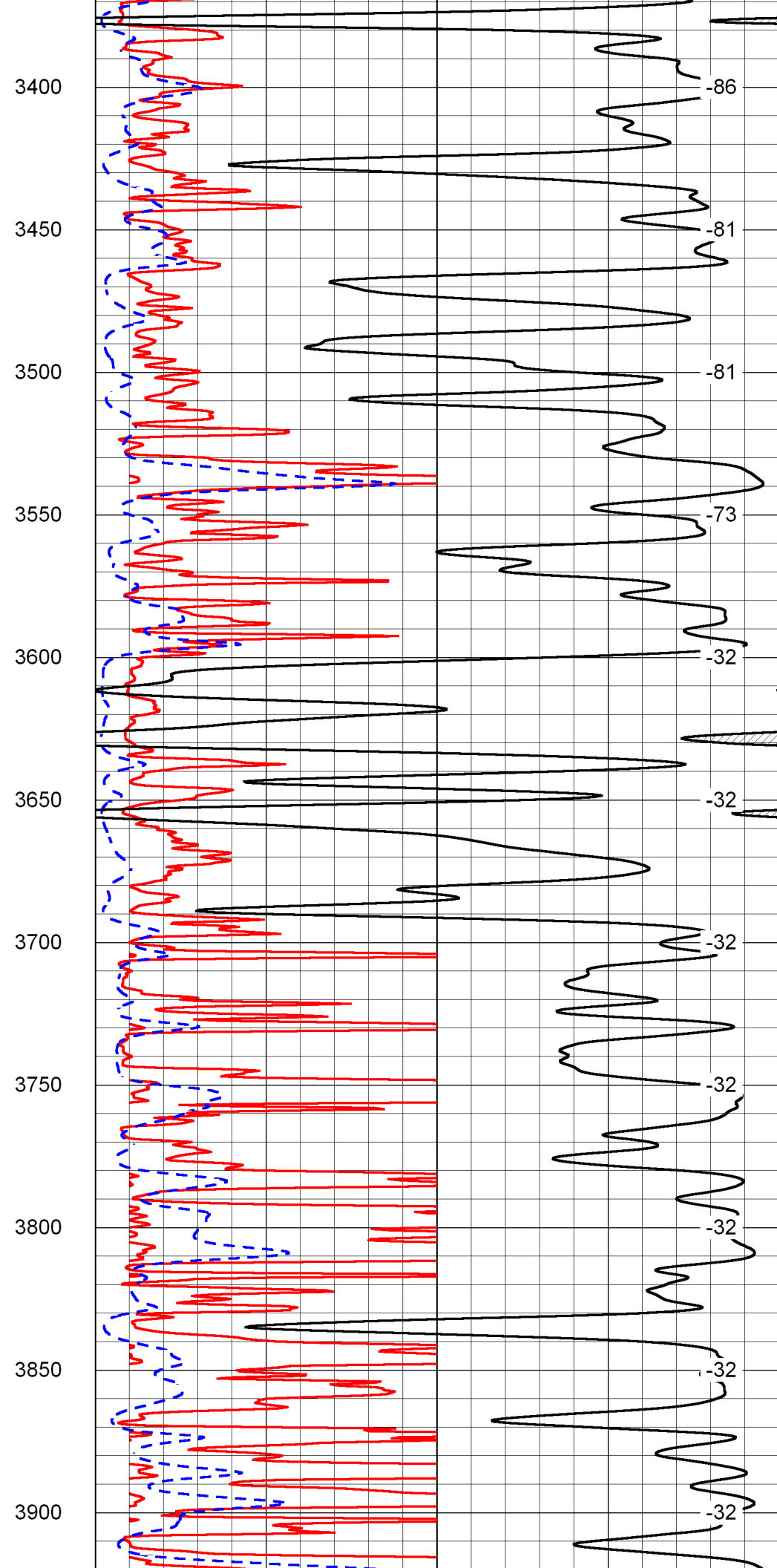
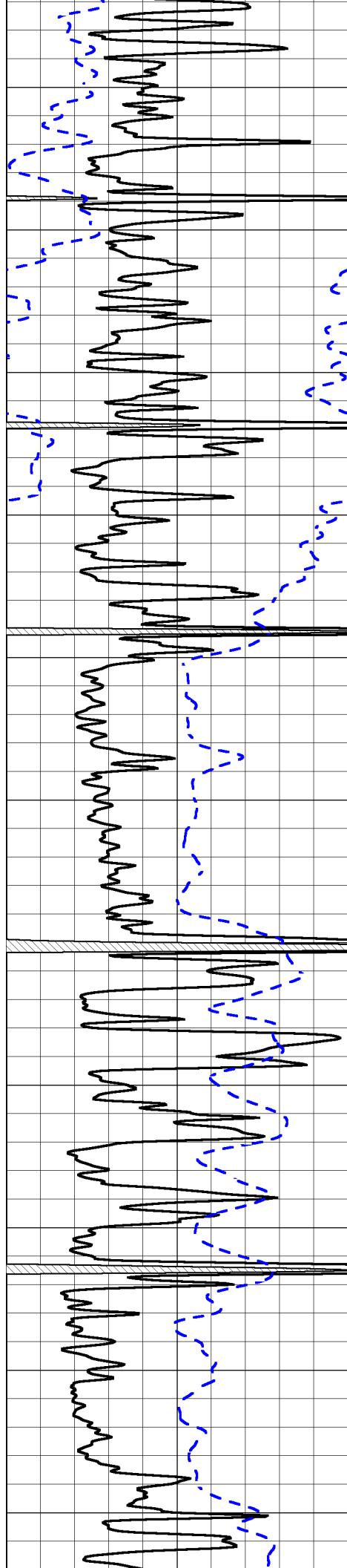


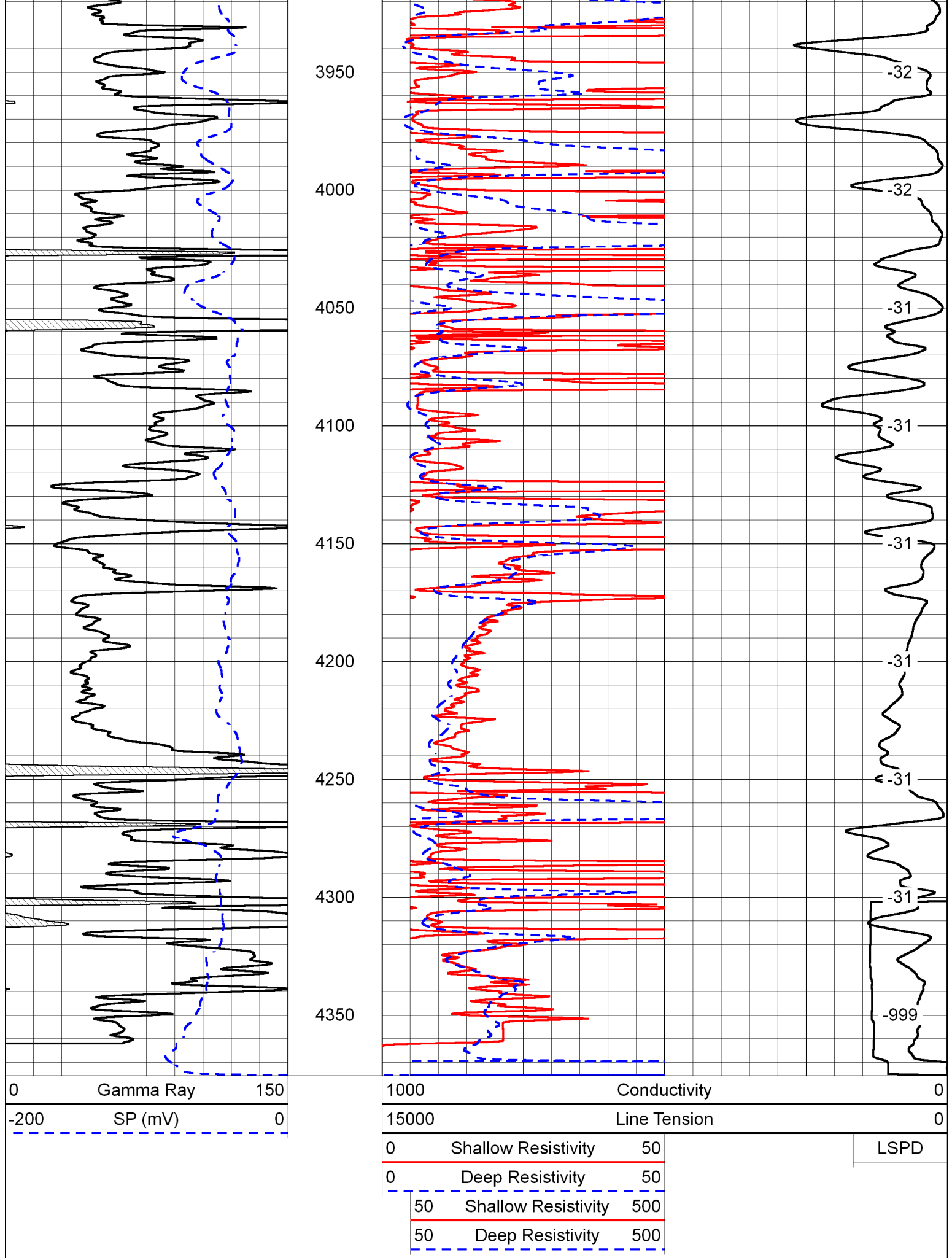










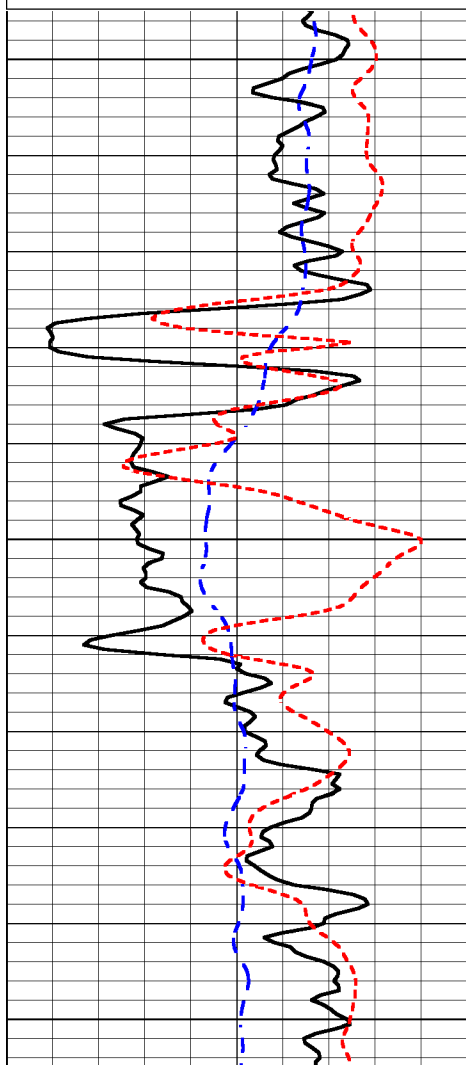


Database File amwar_rein #5-23\american_warrior_rein_5_23hd.db
Dataset Pathname DIL/awstk
Presentation Format dil
Dataset Creation Wed Jun 24 03:24:31 2015
Charted by Depth in Feet scaled 1:240

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

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

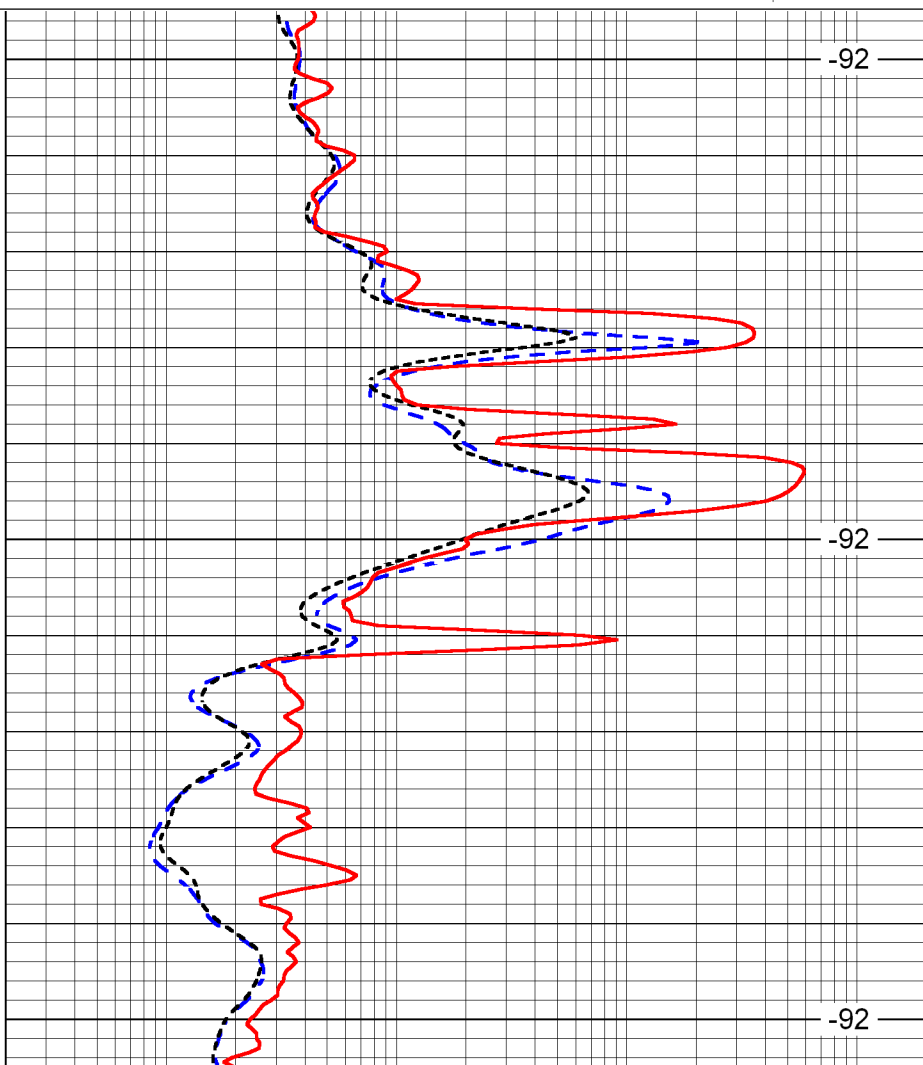
LSPD



1450

1500

1550



-92

-92

-92

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

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD

Database File amwar_rein #5-23\american_warrior_rein_5_23hd.db
Dataset Pathname DIL/awstk
Presentation Format dil
Dataset Creation Wed Jun 24 03:24:31 2015
Charted by Depth in Feet scaled 1:240

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

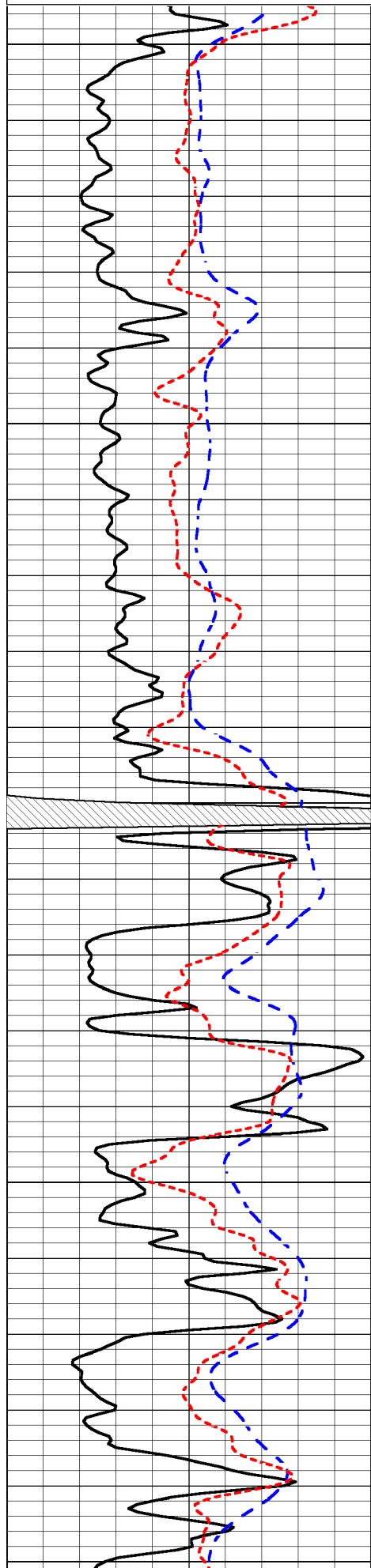
0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000

-100 Rx0Rt 40

0.2 Shallow Resistivity 2000

15000 Line Tension 0

LSPD



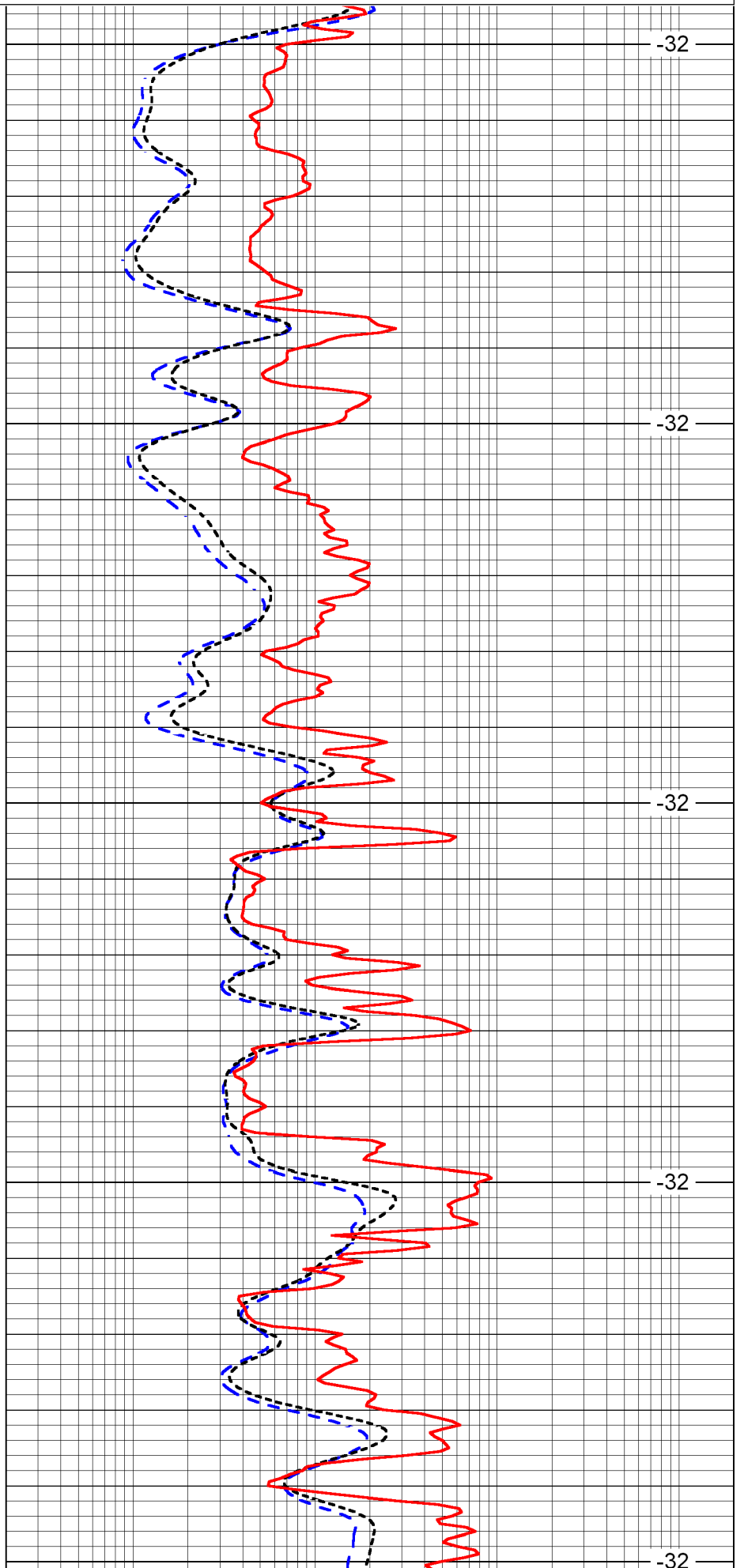
3600

3650

3700

3750

3800



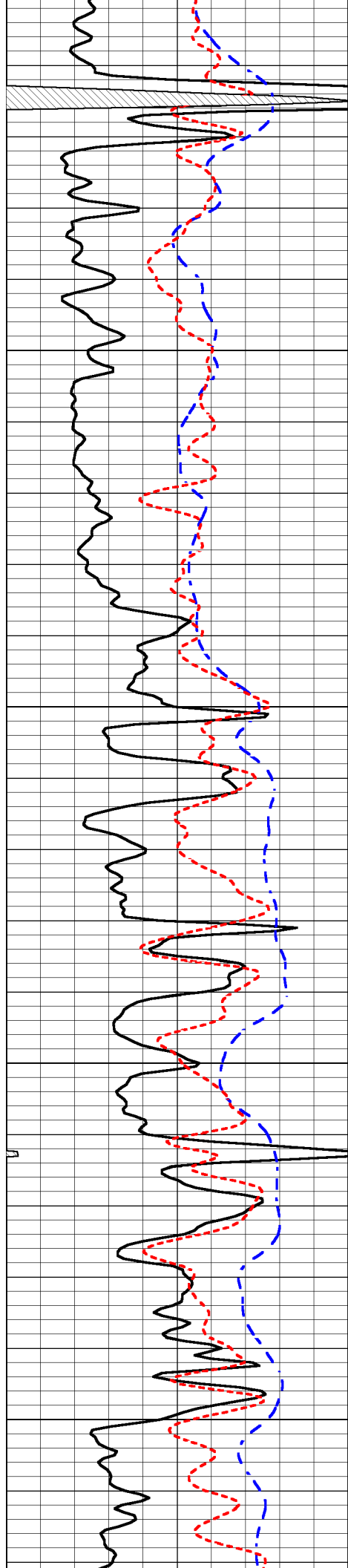
-32

-32

-32

-32

-32

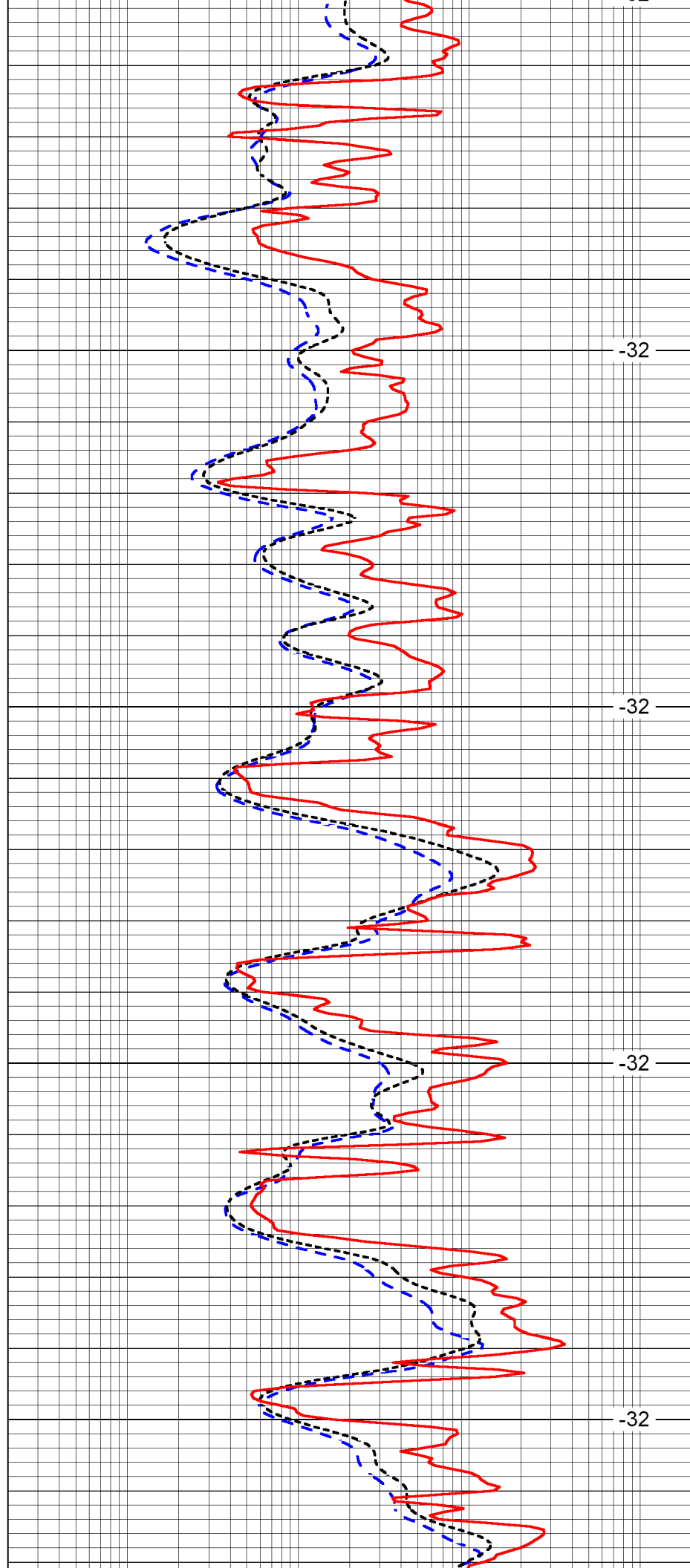


3850

3900

3950

4000

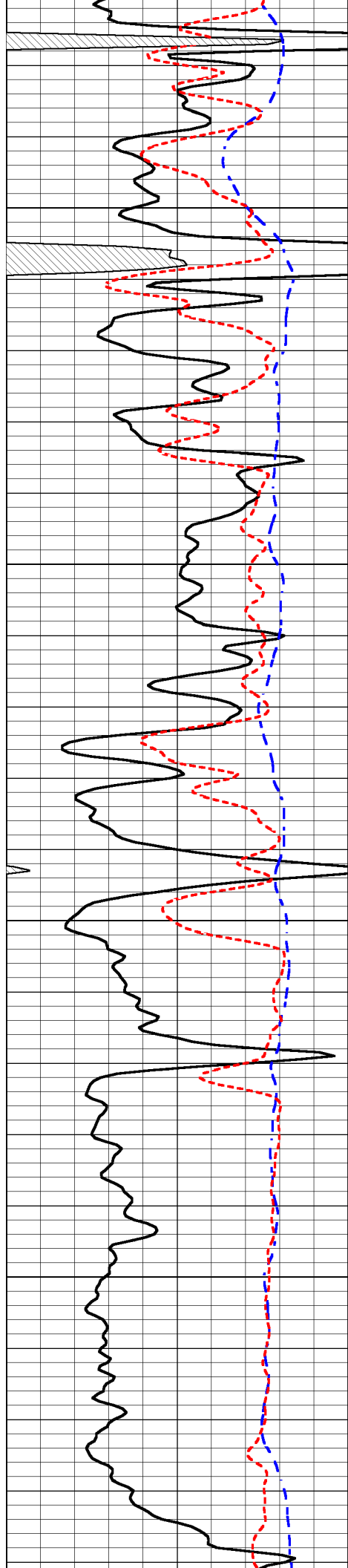


-32

-32

-32

-32

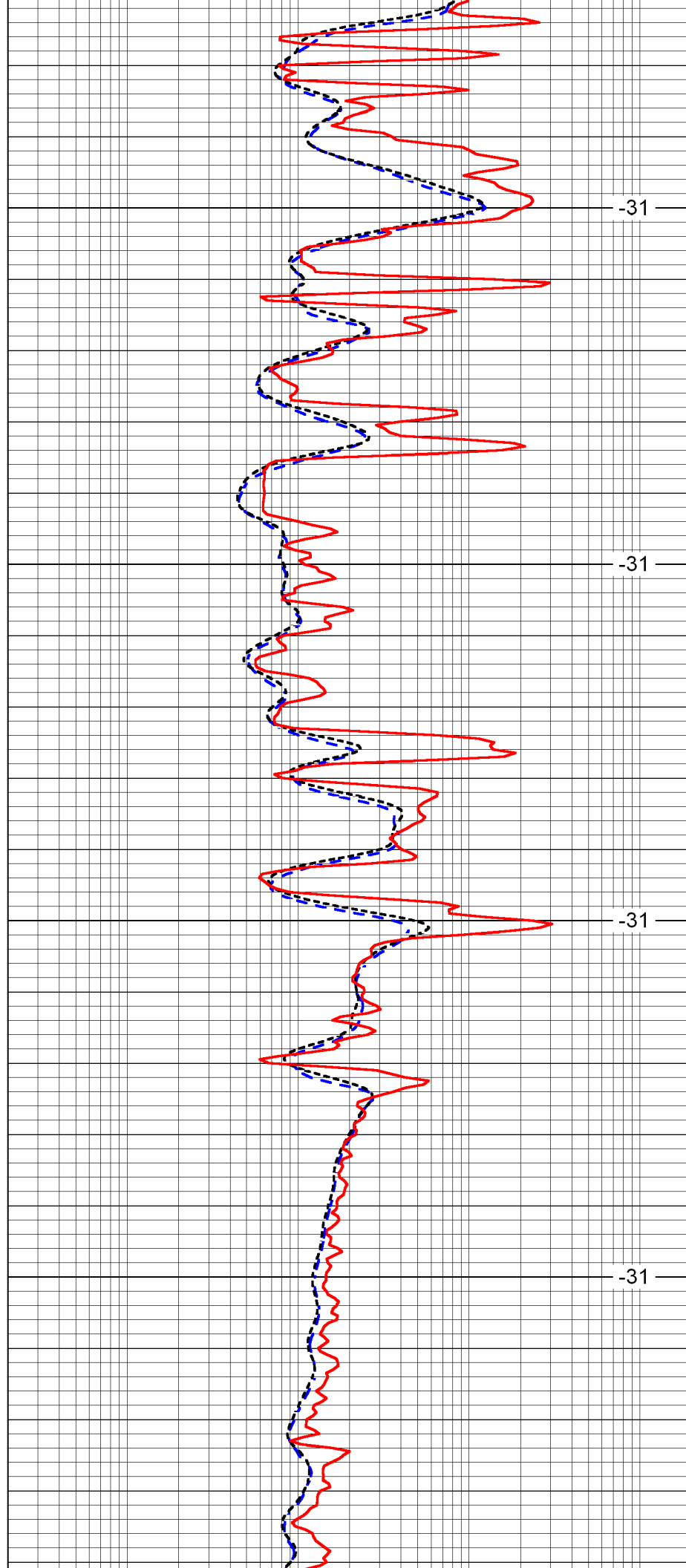


4050

4100

4150

4200



-31

-31

-31

-31

