



Dual Induction Log

DIGITAL LOG (785) 625-3858

API No.	Company Range Oil Company, Inc.		
	Well Sommers B No. 1		
	Field Hazlett		
	County Butler	State	Kansas
	Location NW NW SW/4 2310' FSL & 410' FWL	Other Services CNL/CDL BHCS	
	Sec: 12	Twp: 24 S	Rge: 4 E
Permanent Datum	Ground Level	Elevation 1442	
Log Measured From	Kelly Bushing	10 Ft. Above Perm. Datum	
Drilling Measured From	From Kelly Bushing	K.B. 1452 D.F. 1442 G.L. 1442	
Date	7/1/2011		
Run Number	One		
Depth Driller	2530		
Depth Logger	2528		
Bottom Logged Interval	2527		
Top Log Interval	00		
Casing Driller	8.625 @ 205		
Casing Logger	218		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	900		
Density / Viscosity	9.3 58		
pH / Fluid Loss	9.5 9.0		
Source of Sample	Flowline		
Rm @ Meas. Temp	.95 @ 80		
Rmf @ Meas. Temp	.71 @ 80		
Rmc @ Meas. Temp	1.28 @ 80		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.75 @ 101		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	101		
Equipment Number	4		
Location	Hays		
Recorded By	K. Bange		
Witnessed By	John Washburn		

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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.

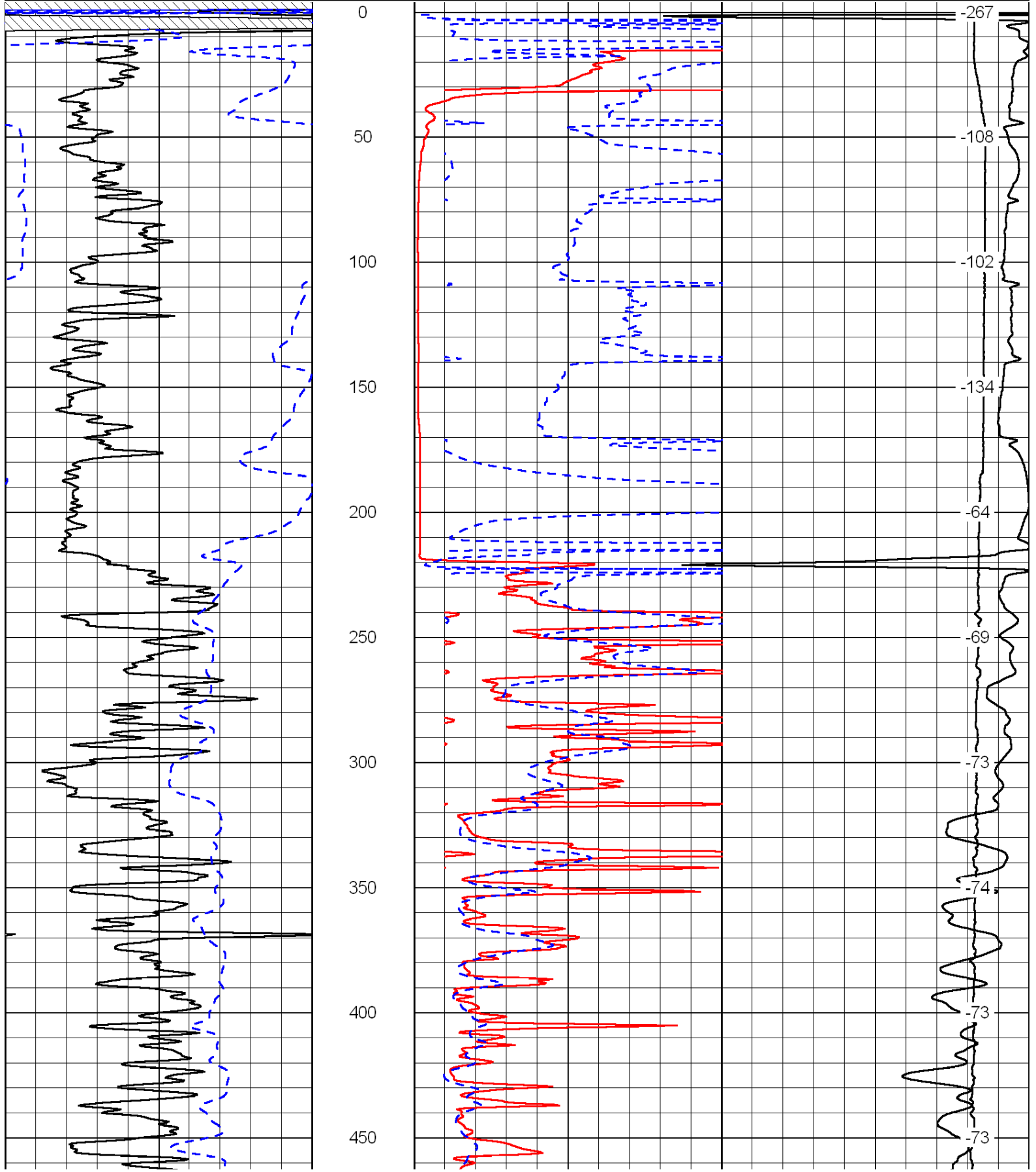
Comments

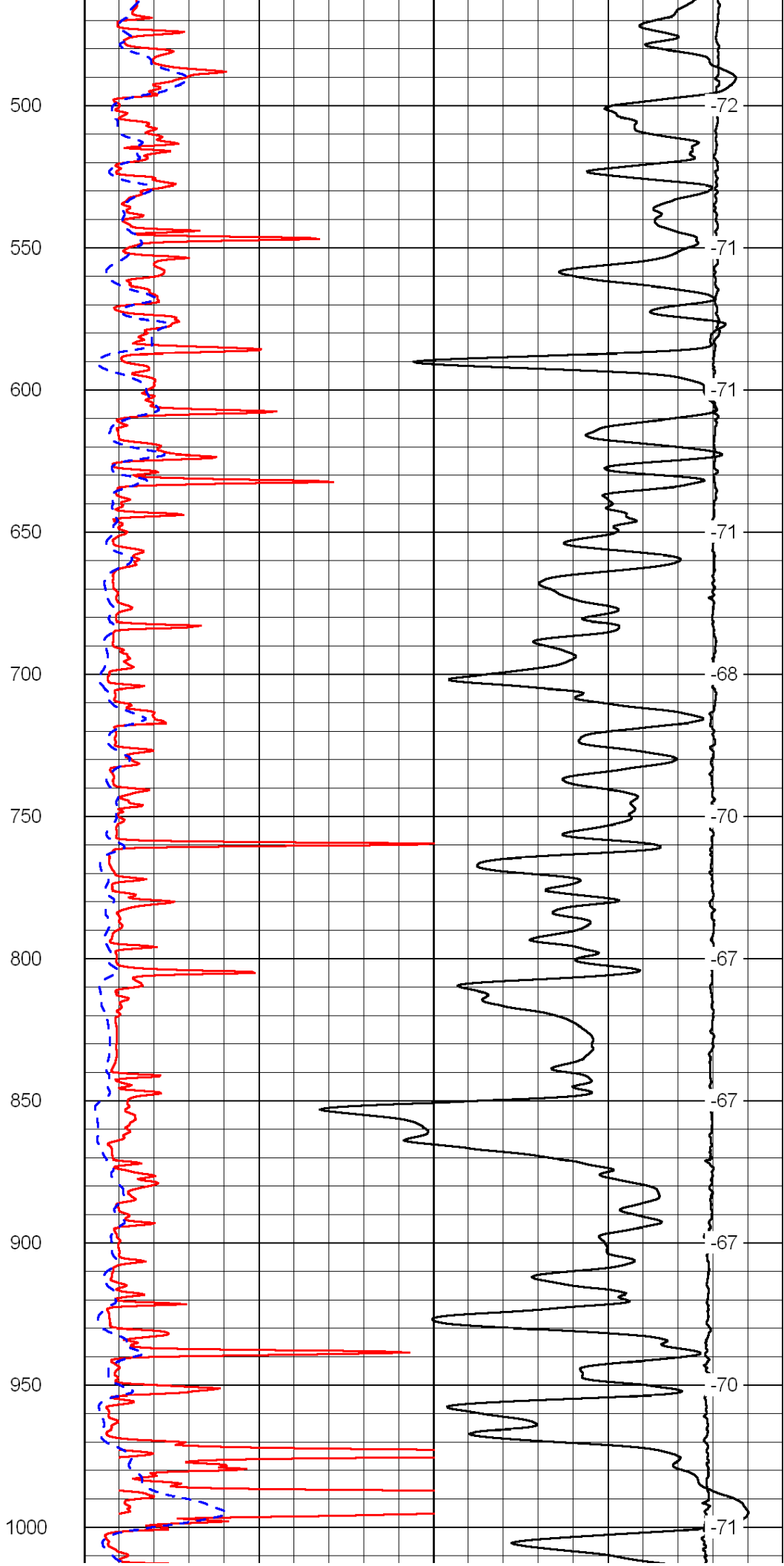
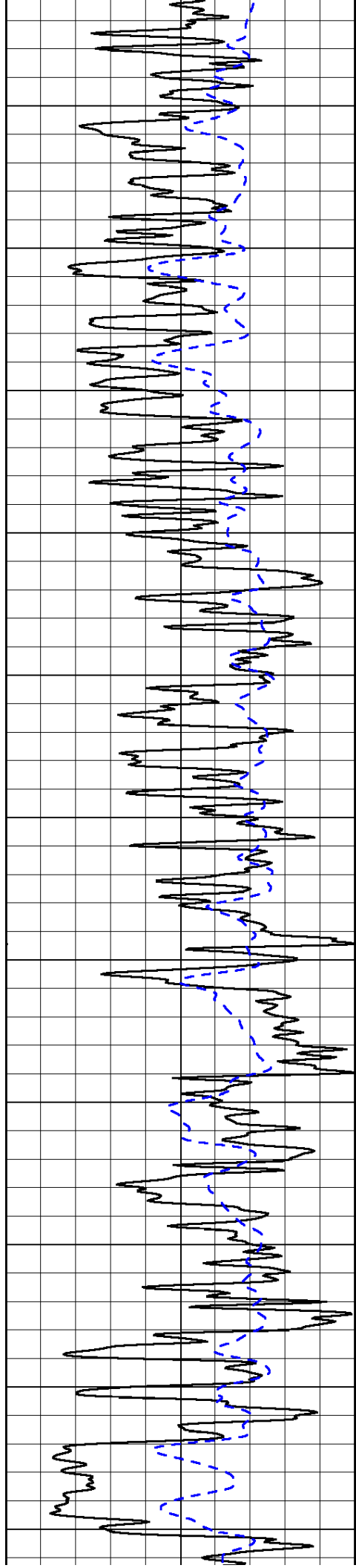
Thank you for using Log-Tech, Inc.
(785) 625-3858

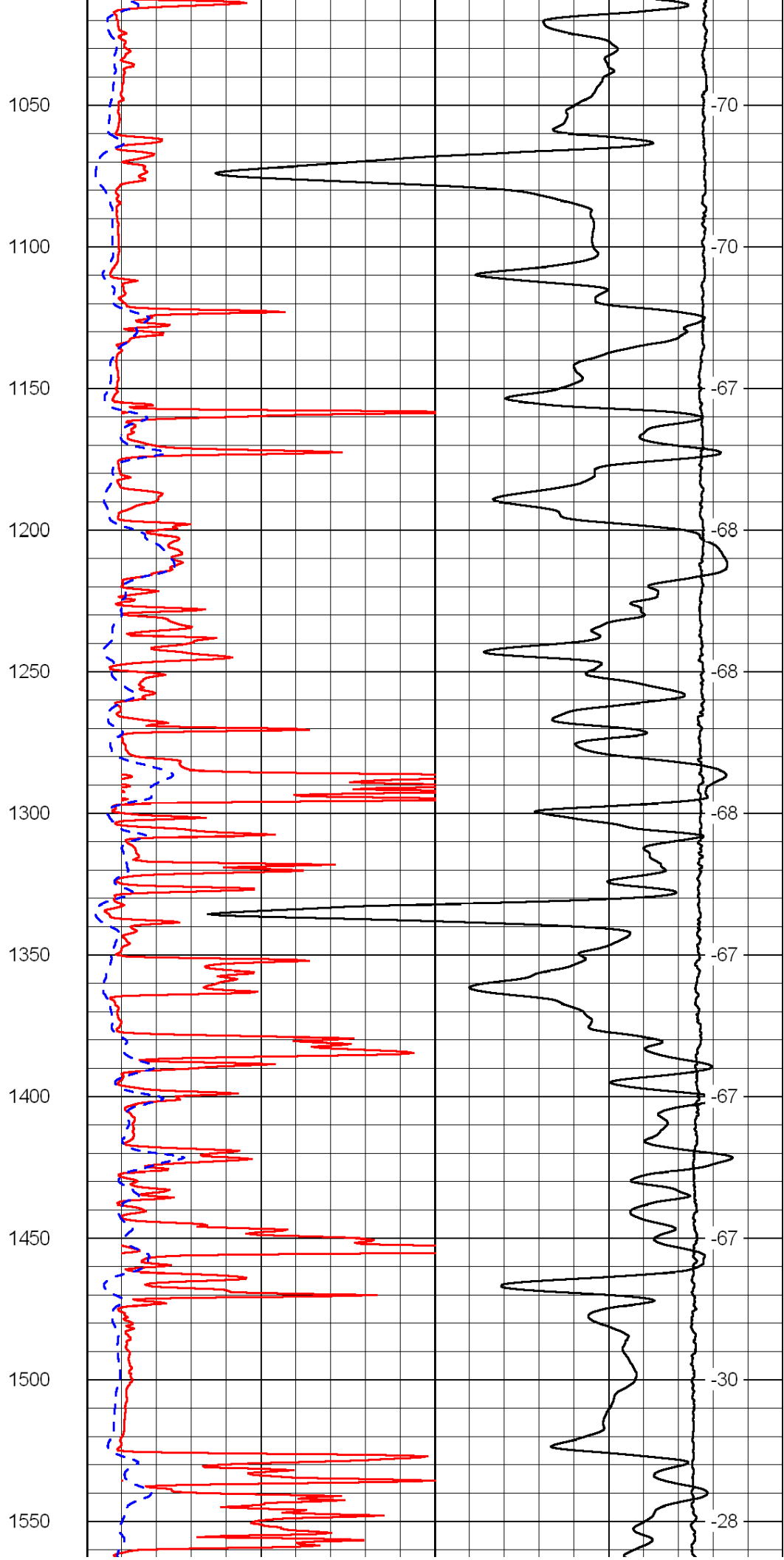
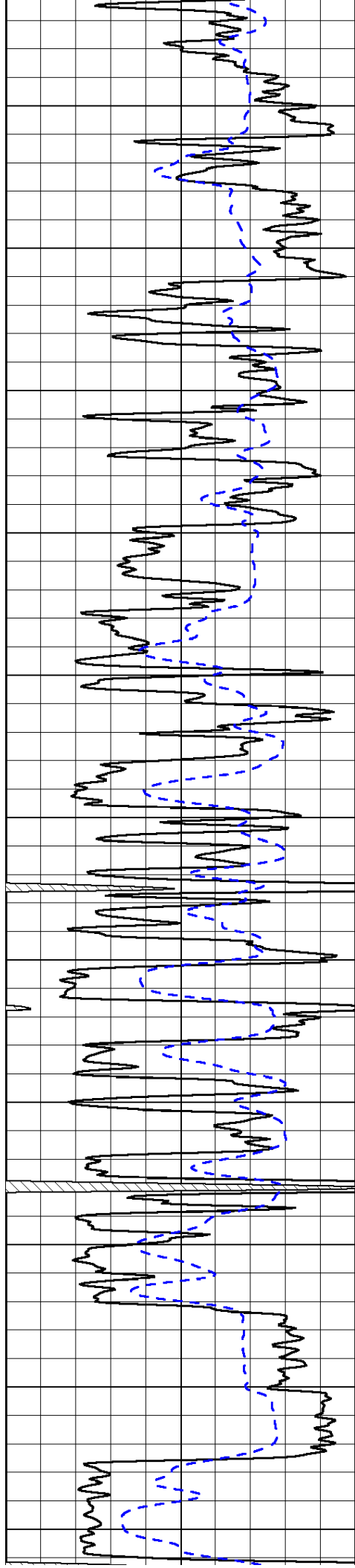
Potwin, 1 E to River Valley rd, 3 1/2 N to 110 rd,
3 E to Shumway rd, 1/2 S, E into

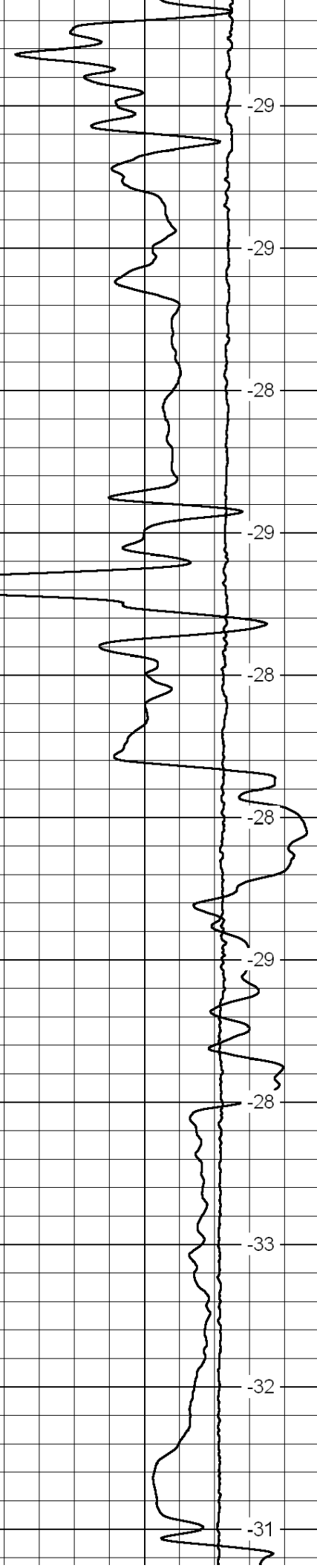
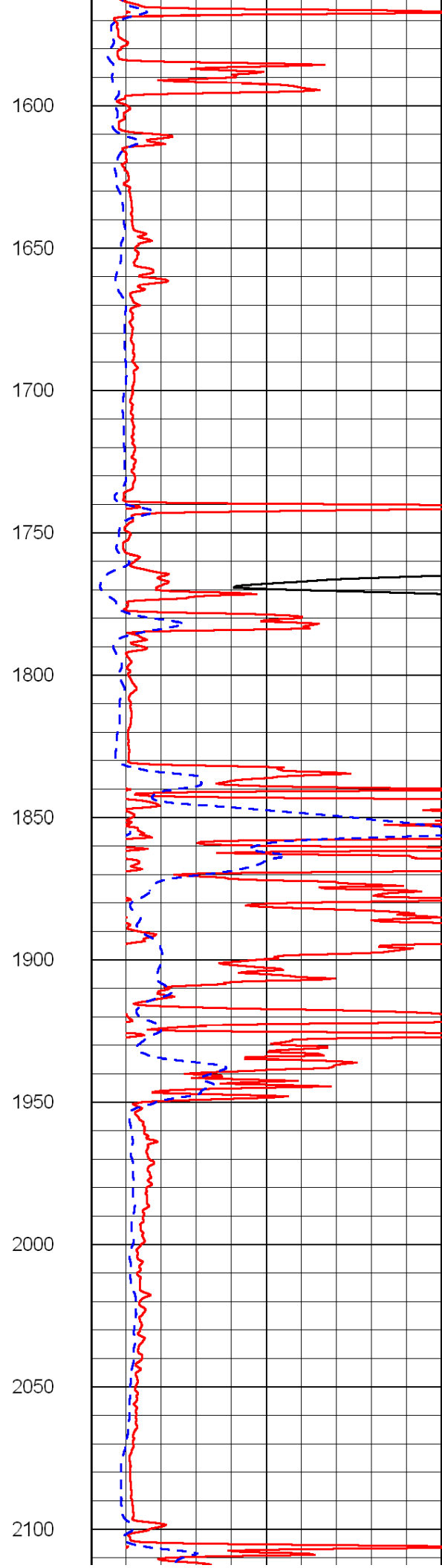
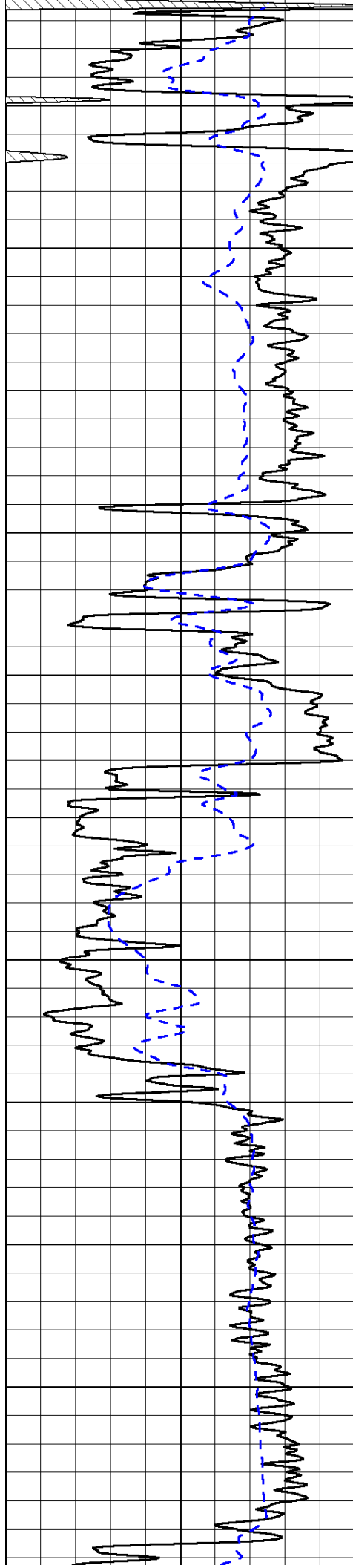
Database File: c:\warrior\data\range_sommers b no. 1\range0070111hd.db
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Presentation Format: dil2in
Dataset Creation: Tue Jul 05 13:57:21 2011
Charted by: Depth in Feet scaled 1:600

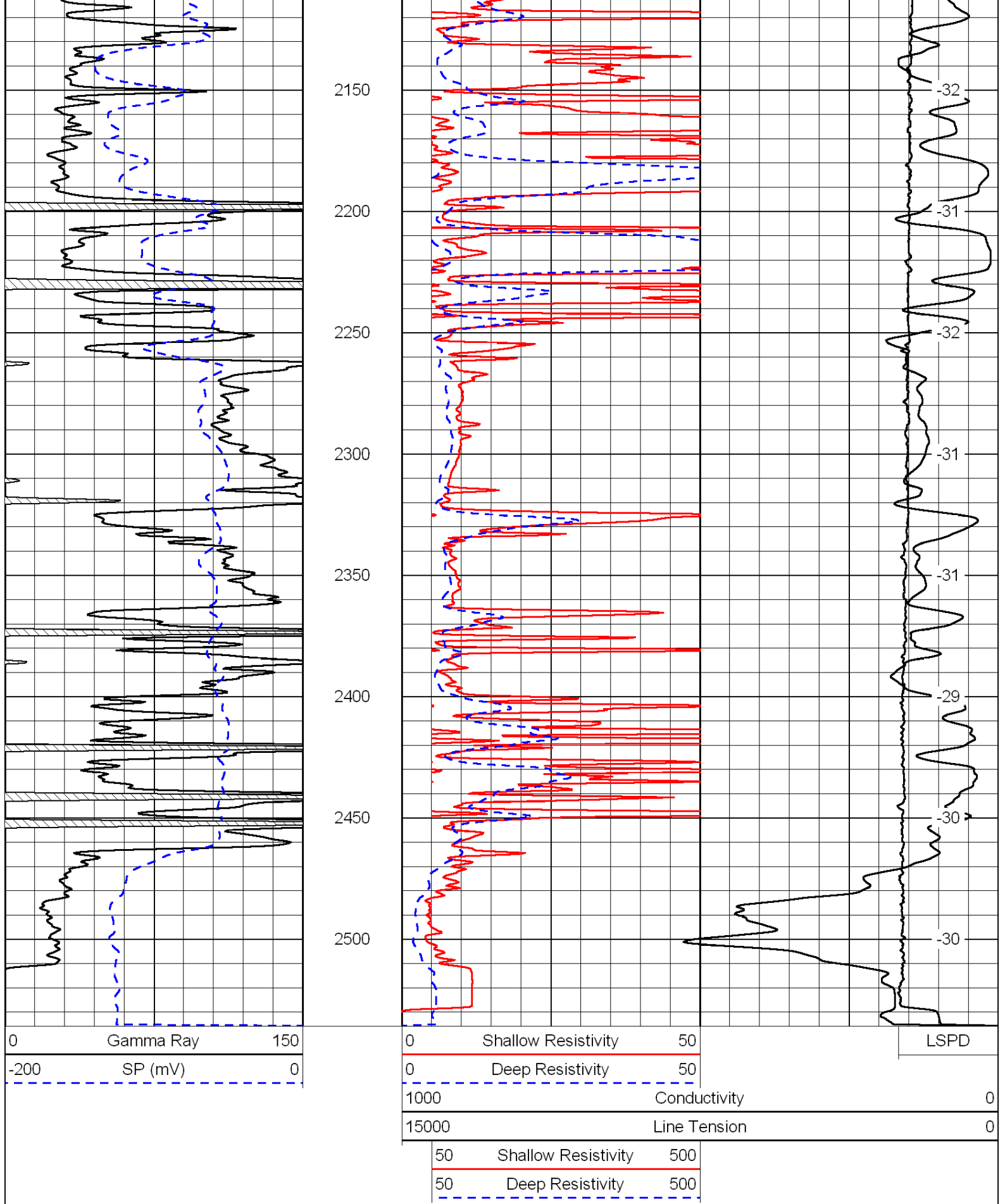
Charted by: Depth in Feet scaled 1:500								
0	Gamma Ray	150	0	Shallow Resistivity	50	LSPD		
-200	SP (mV)	0	0	Deep Resistivity	50			
			1000	Conductivity		0		
			15000	Line Tension		0		
			50	Shallow Resistivity	500			
			50	Deep Resistivity	500			









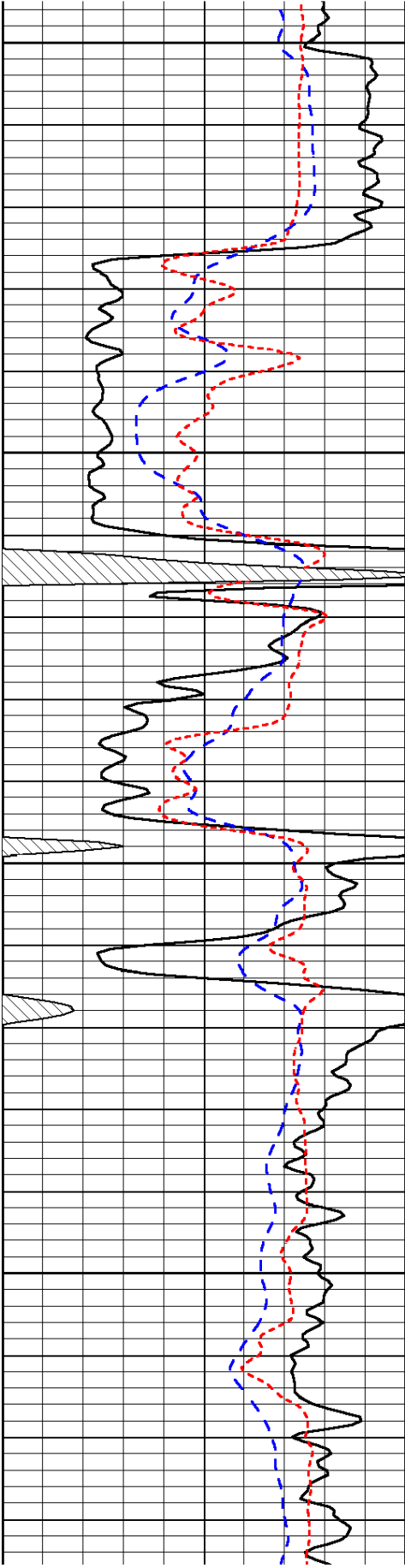


Database File: c:\warrior\data\range_sommers b no. 1\range0070111hd.db
Dataset Pathname: dil/rangestack
Presentation Format: dil
Dataset Creation: Tue Jul 05 13:57:21 2011
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
-200	SP (mV)	0
-160	Rxo / Rt	40

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

LSPD

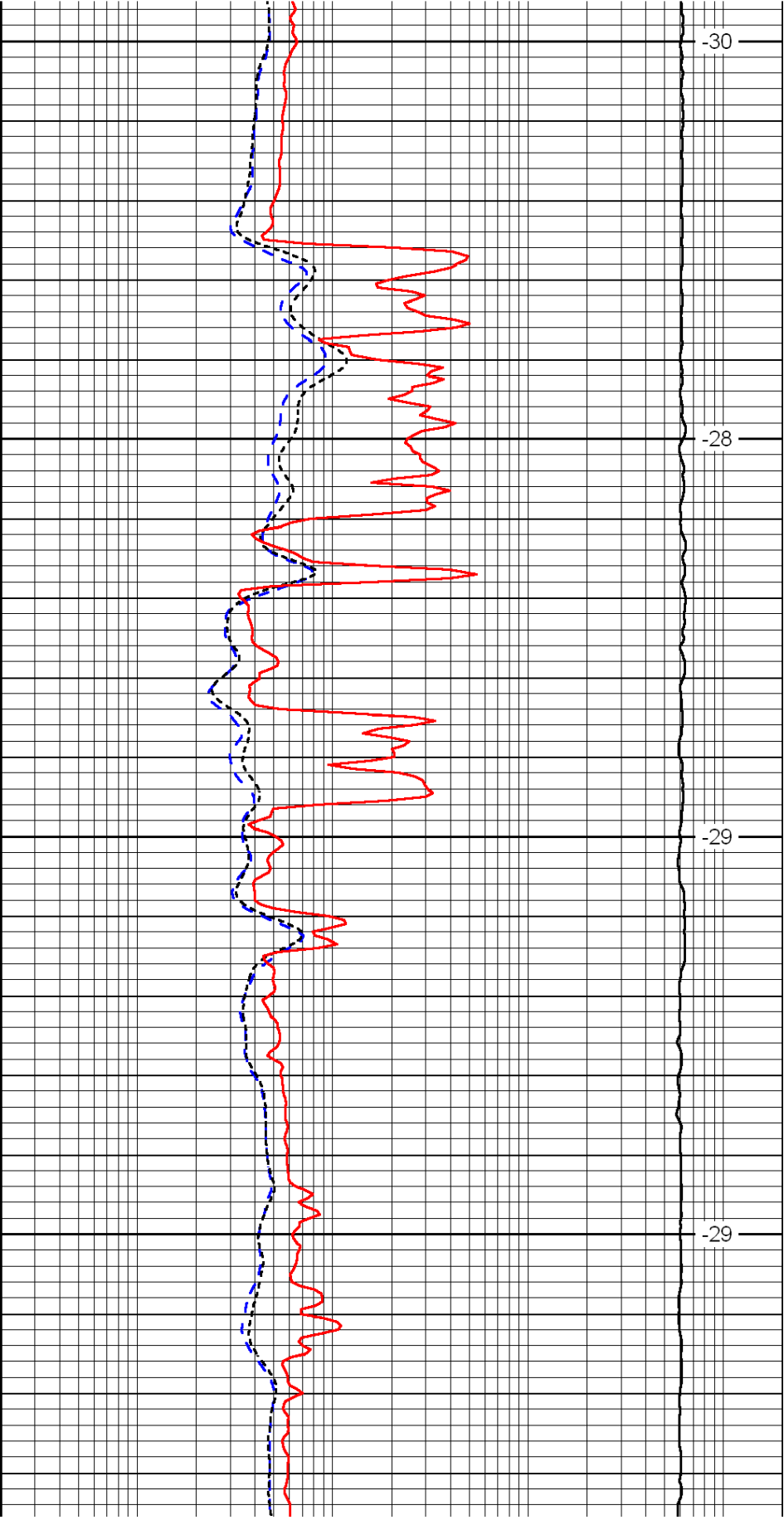


1500

1550

1600

1650

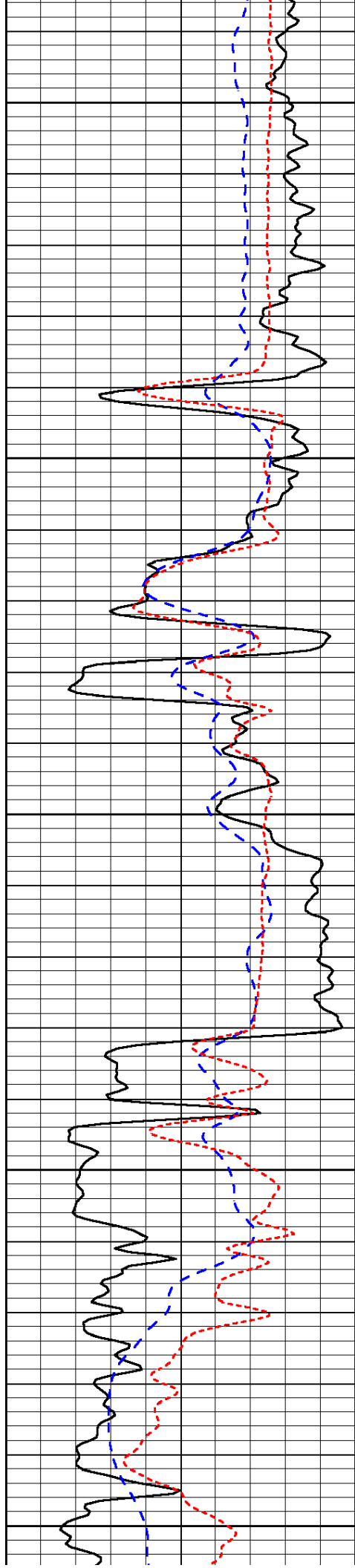


-30

-28

-29

-29



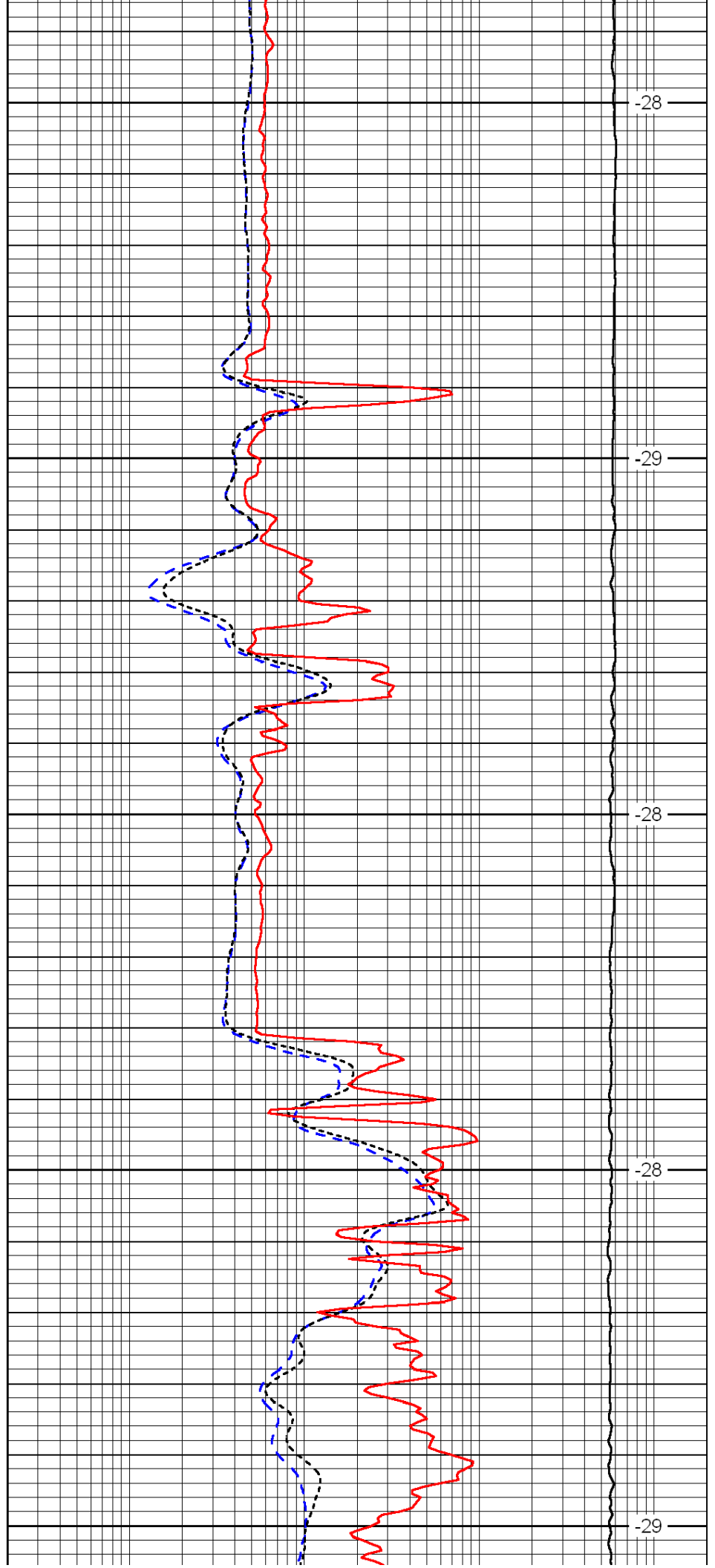
1700

1750

1800

1850

1900



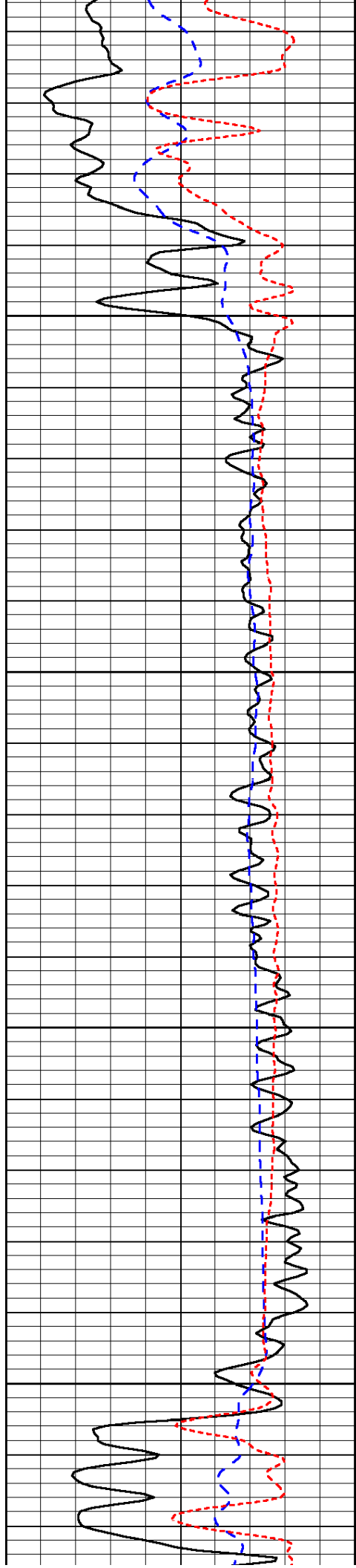
-28

-29

-28

-28

-29

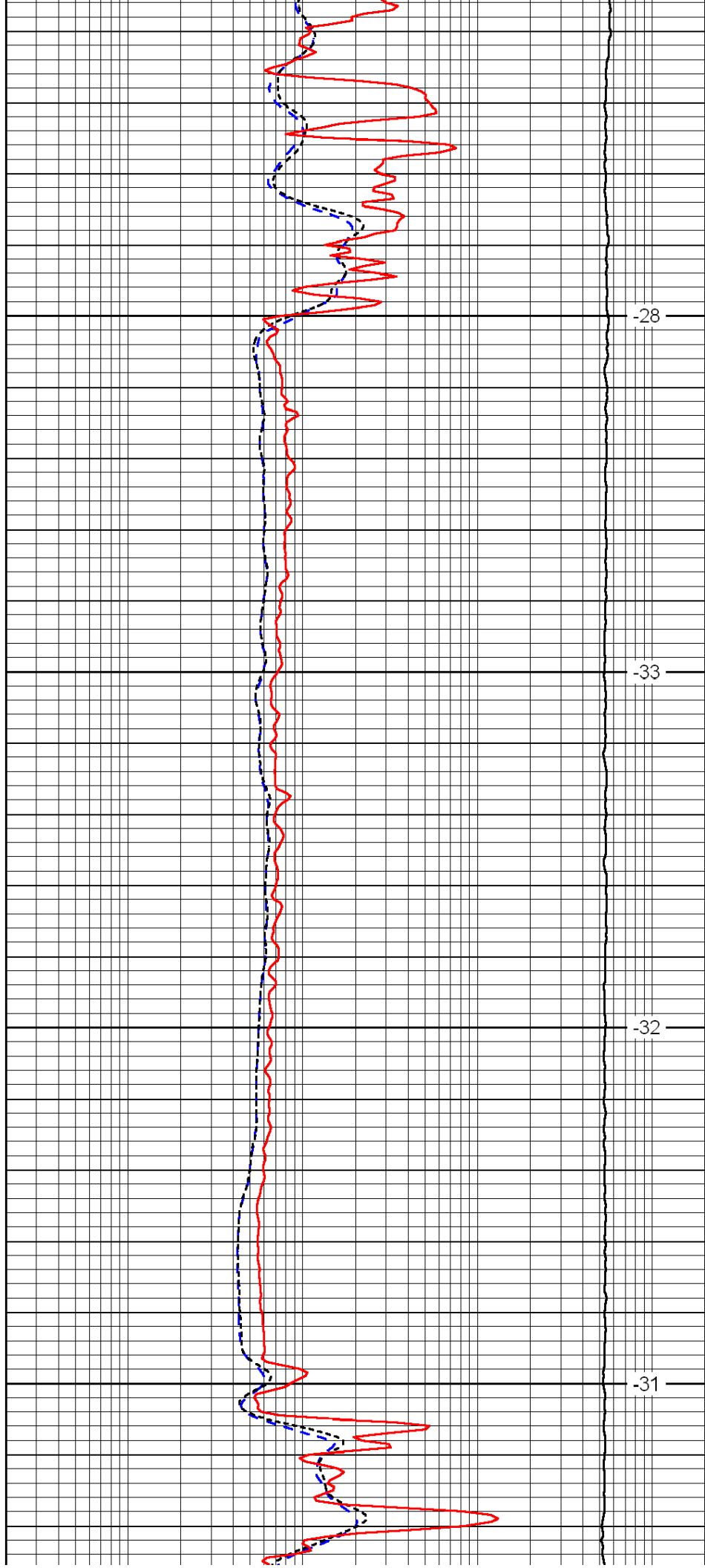


1950

2000

2050

2100

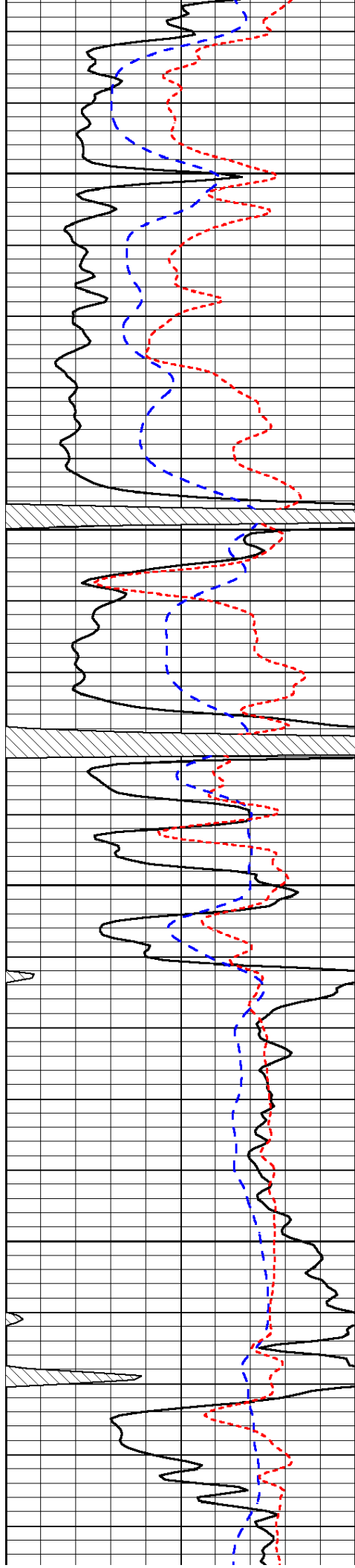


-28

-33

-32

-31

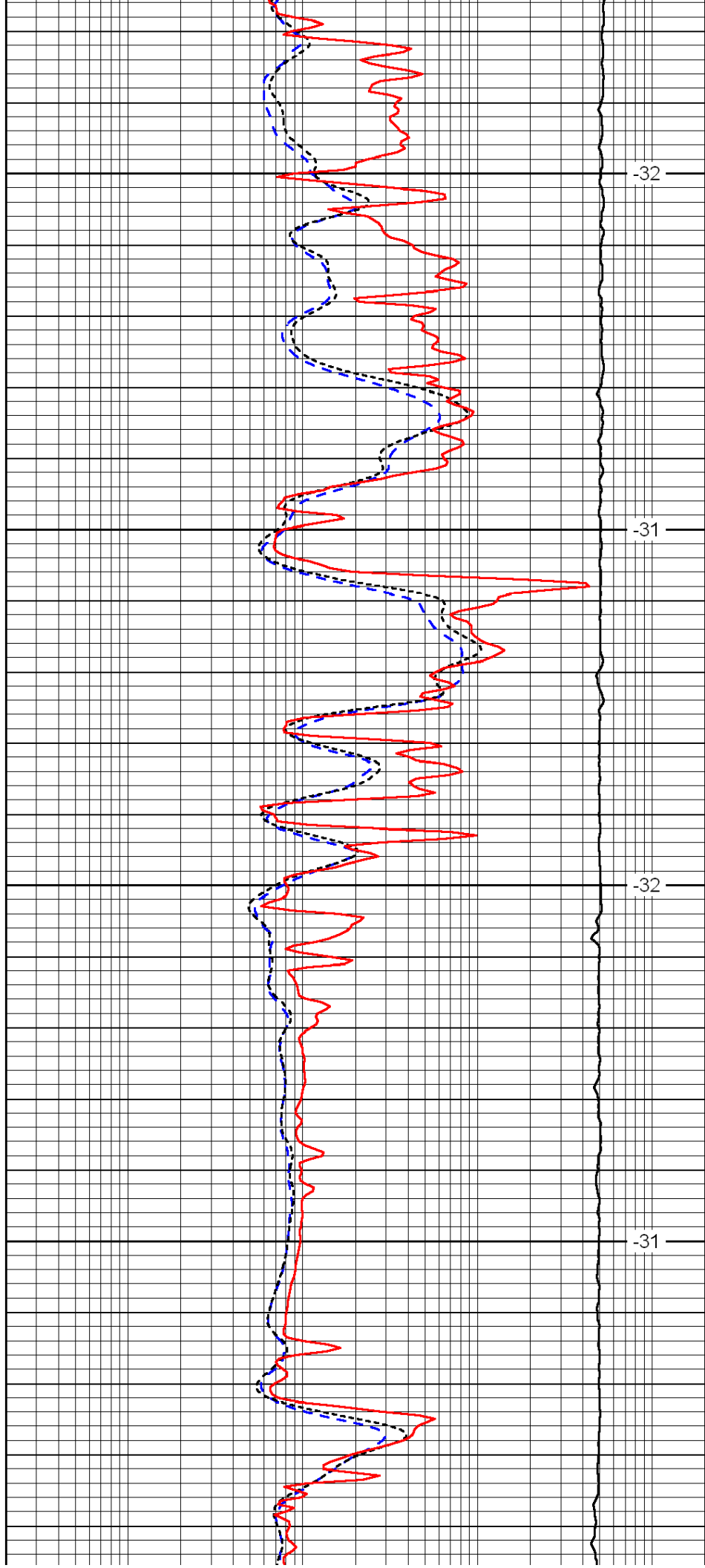


2150

2200

2250

2300

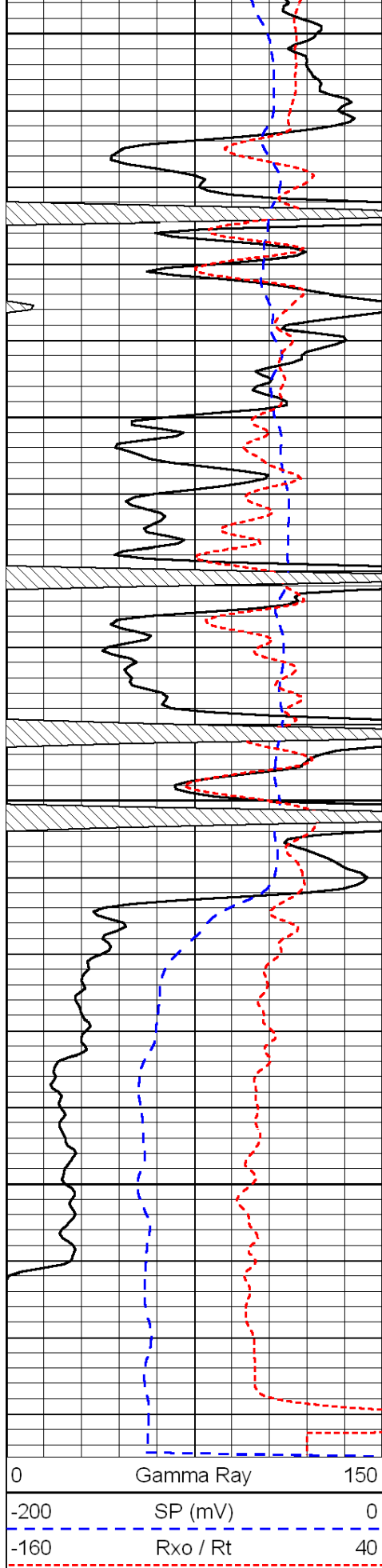


-32

-31

-32

-31



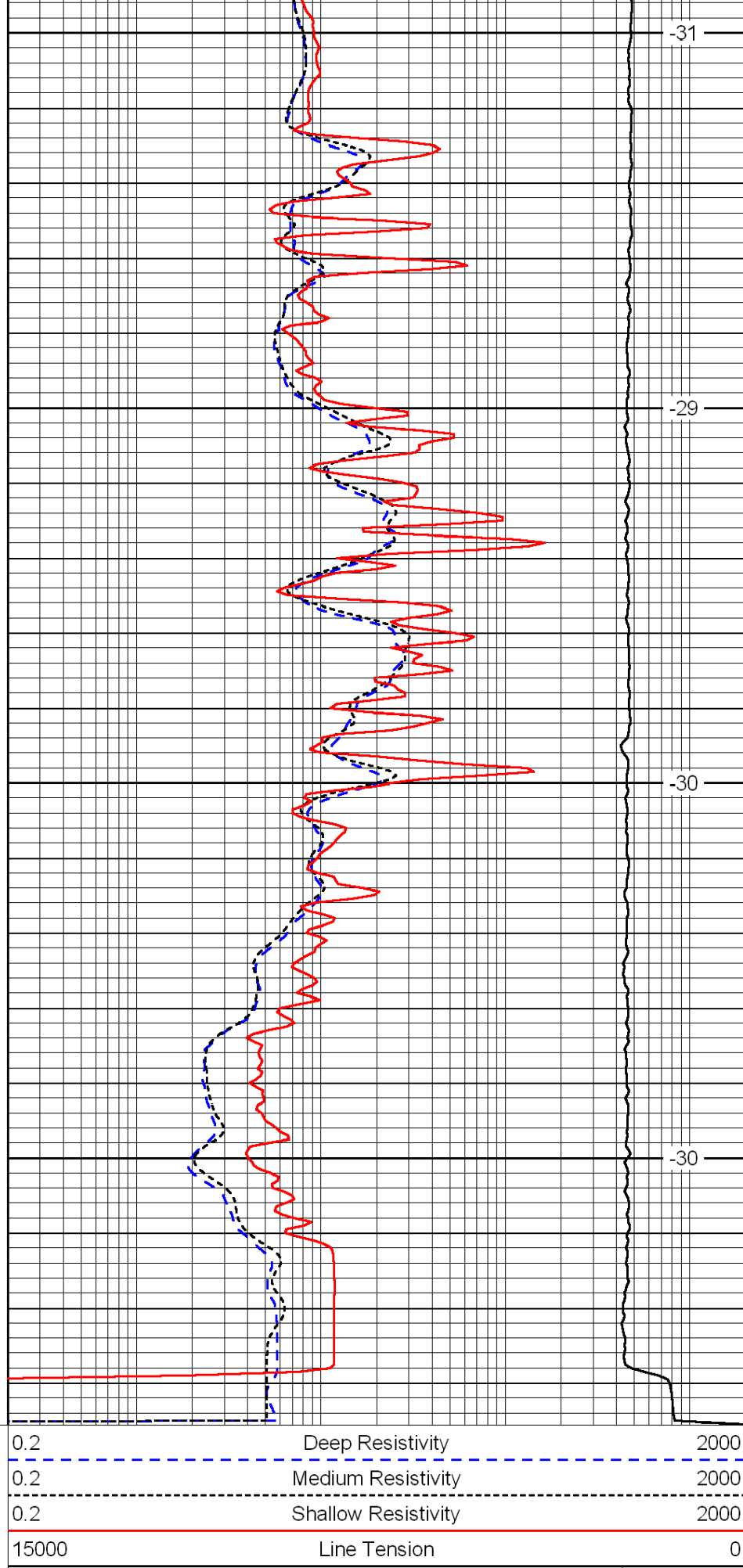
2350

2400

2450

2500

0	Gamma Ray	150
-200	SP (mV)	0
-160	Rxo / Rt	40



-31

-29

-30

-30

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

LSPD