



Dual Induction Log

DIGITAL LOG (785) 625-3858

API No.		Company TDI, Inc.	
15-051-26111-00-00		Well Engel No. 1	
Field Schoenchen		County Ellis State Kansas	
Location SW - SW - SE - NE 2490' FNL & 1235' FEL		Other Services CNL/CDL MEL	
Sec: 21 Twp: 15 S Rge: 18 W		Elevation	
Permanent Datum Ground Level		K.B. 1987	
Log Measured From Kelly Bushing		D.F. 1977	
Drilling Measured From Kelly Bushing		G.L. 1977	
Date	4/7/2011		
Run Number	One		
Depth Driller	3650		
Depth Logger	3654		
Bottom Logged Interval	3653		
Top Log Interval	1150		
Casing Driller	8.625 @ 1155		
Casing Logger	1156		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	2700		
Density / Viscosity	9.1 51		
pH / Fluid Loss	10.5 7.4		
Source of Sample	Flowline		
Rm @ Meas. Temp	1.40 @ 65		
Rmf @ Meas. Temp	1.05 @ 65		
Rmc @ Meas. Temp	1.89 @ 65		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.81 @ 113		
Operating Rig Time	3 1/2 Hours		
Max Rec. Temp. F	113		
Equipment Number	15		
Location	Hays		
Recorded By	B. Becker		
Witnessed By	Tom Denning	Herb Deines	

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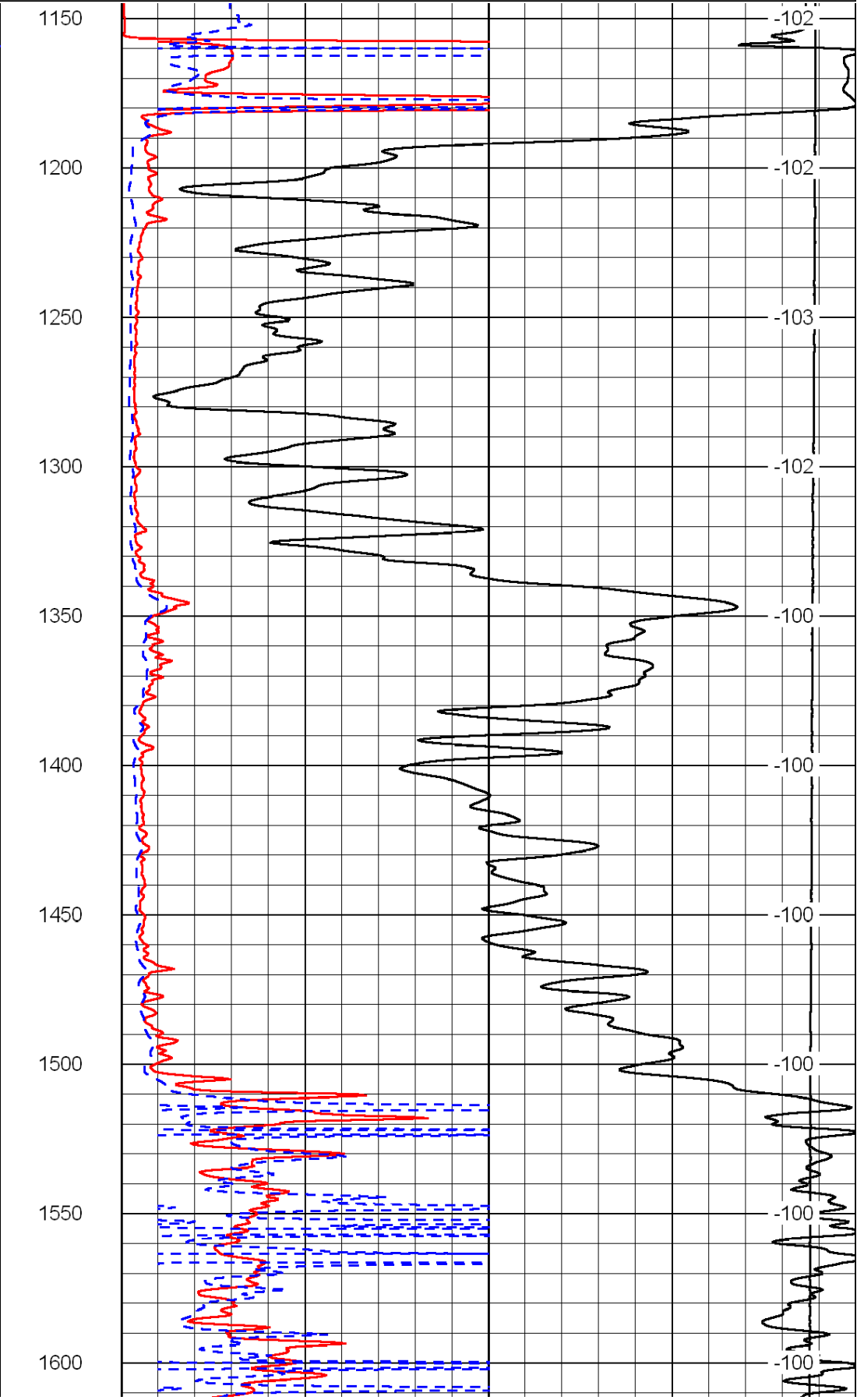
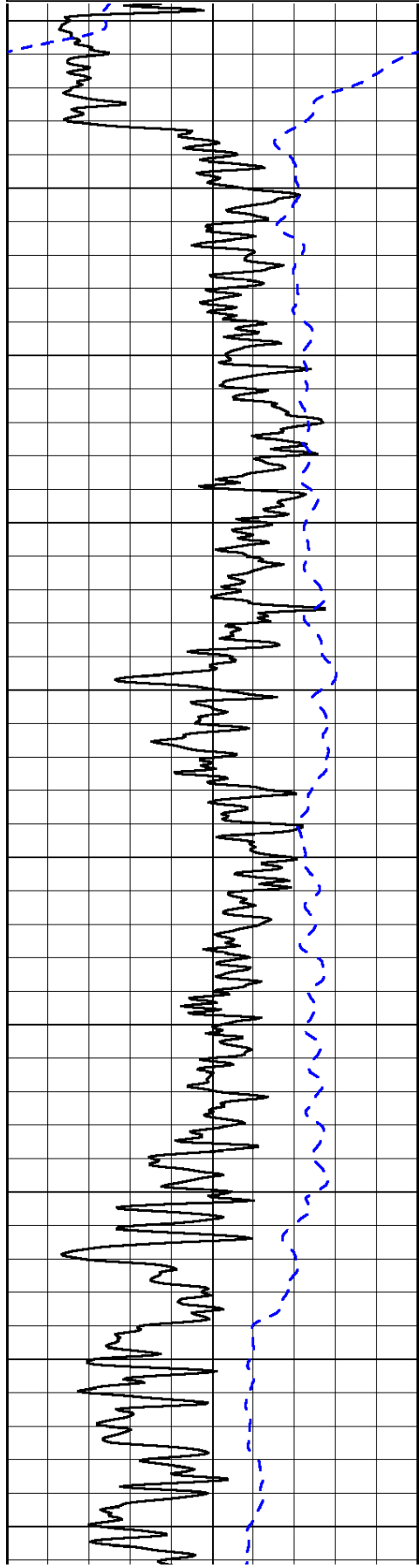
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

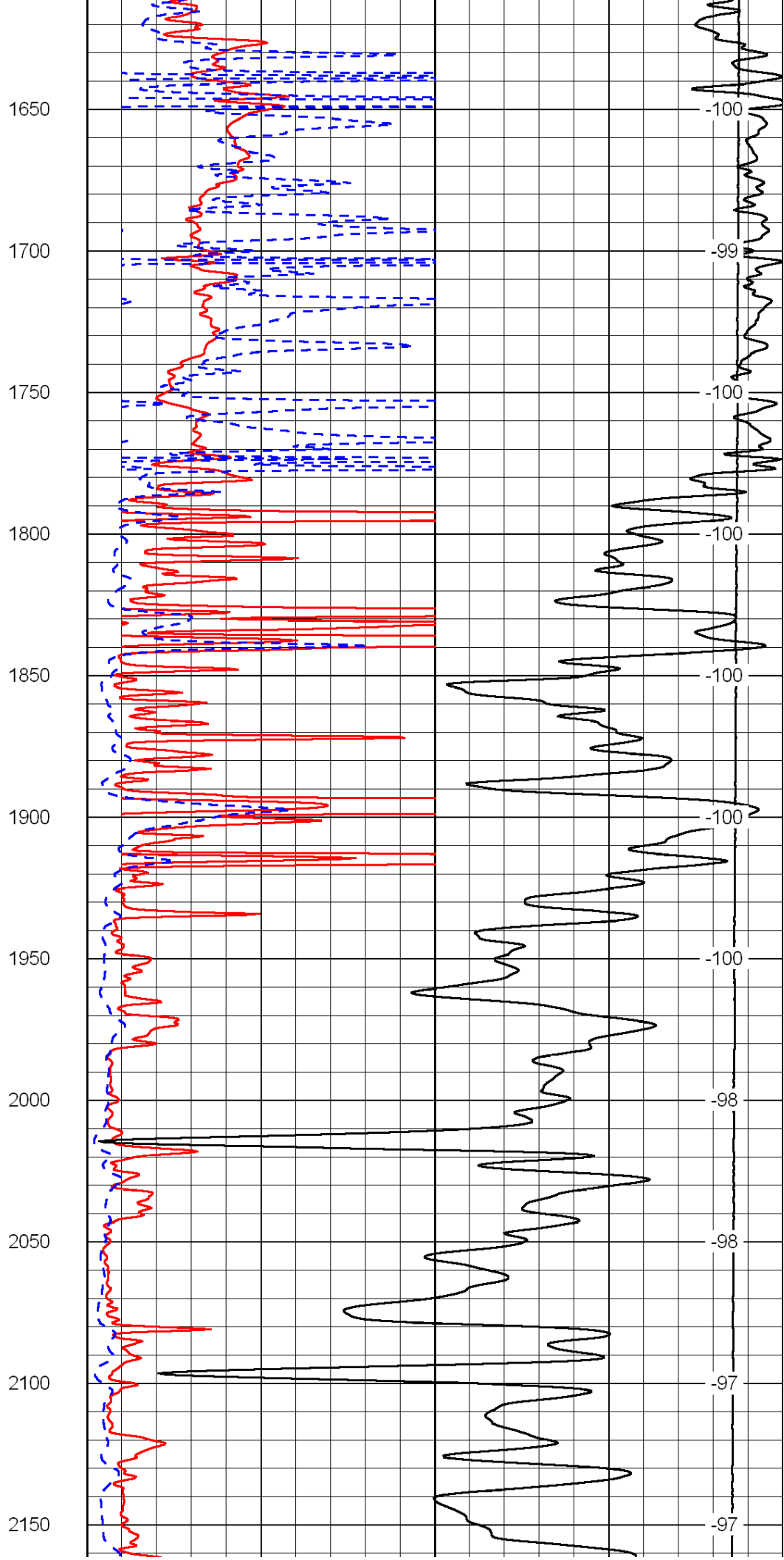
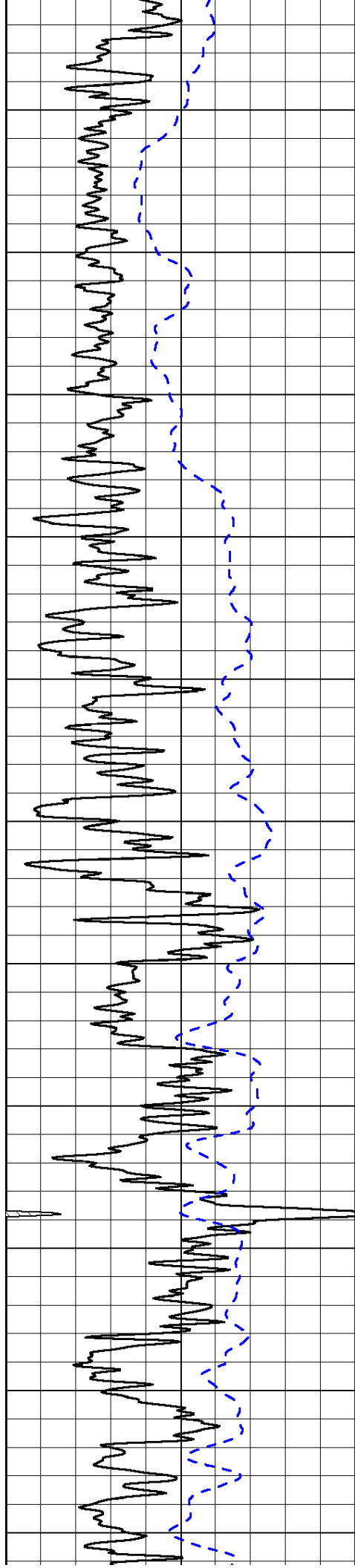
Comments

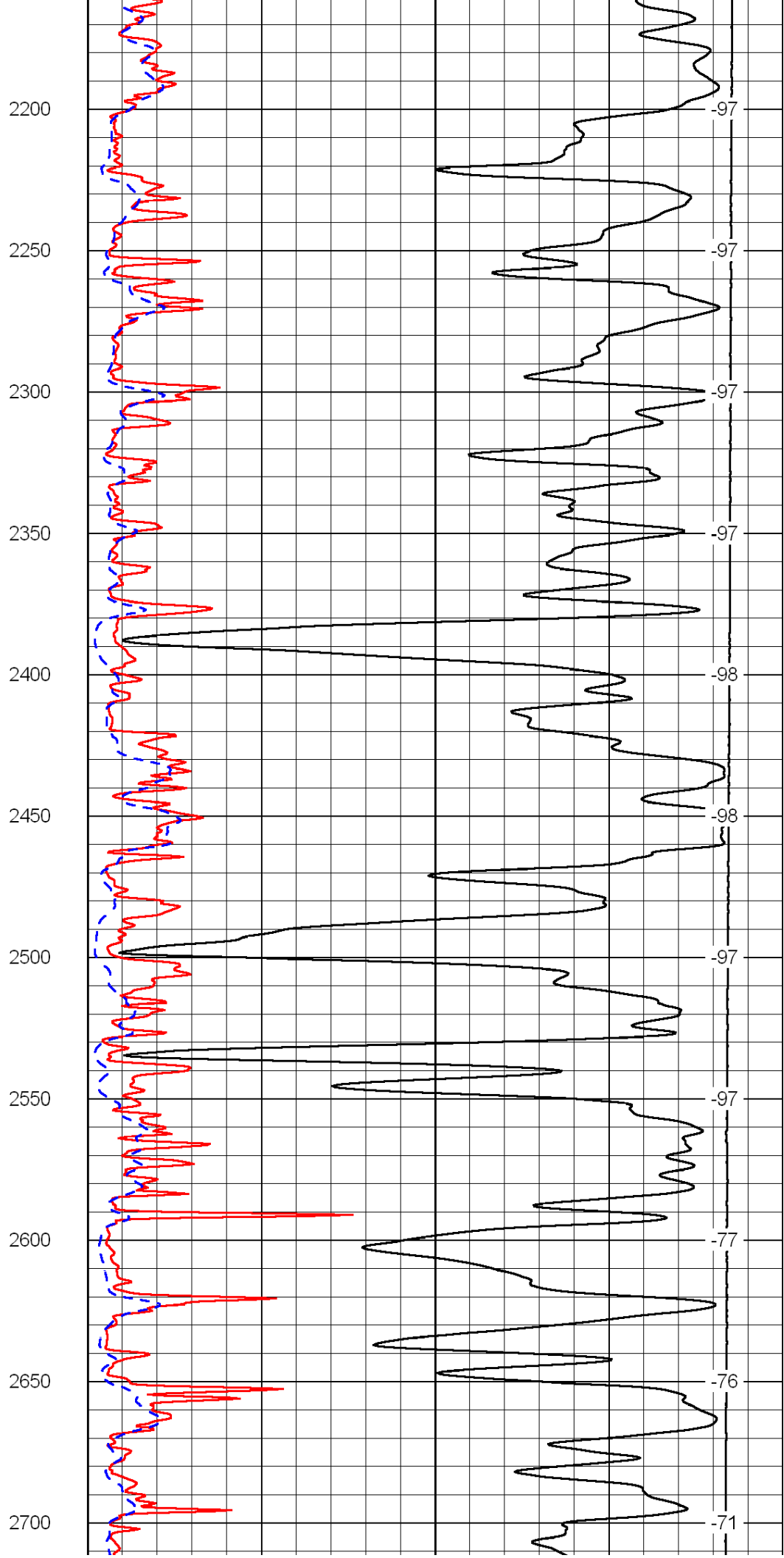
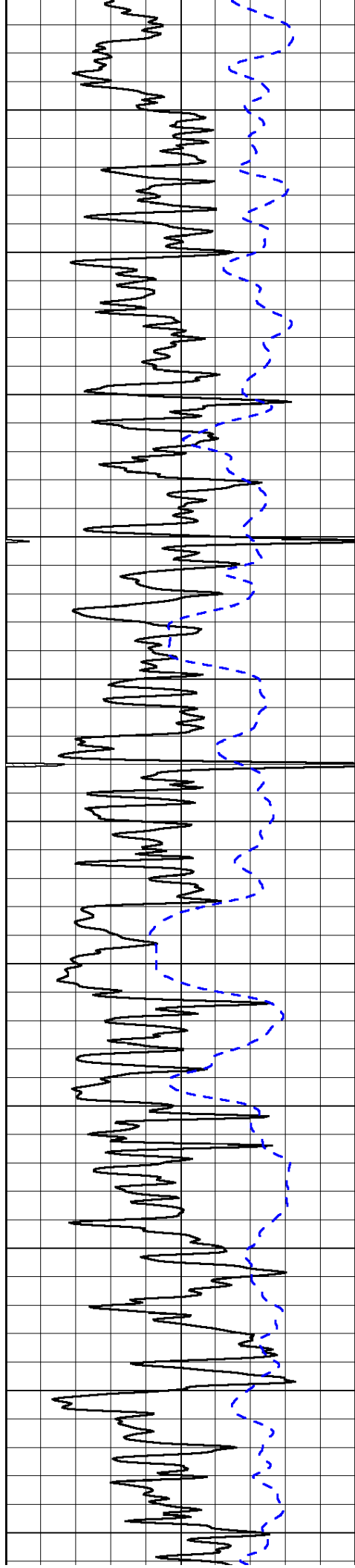
Thank you for using Log-Tech, Inc.
(785) 625-3858

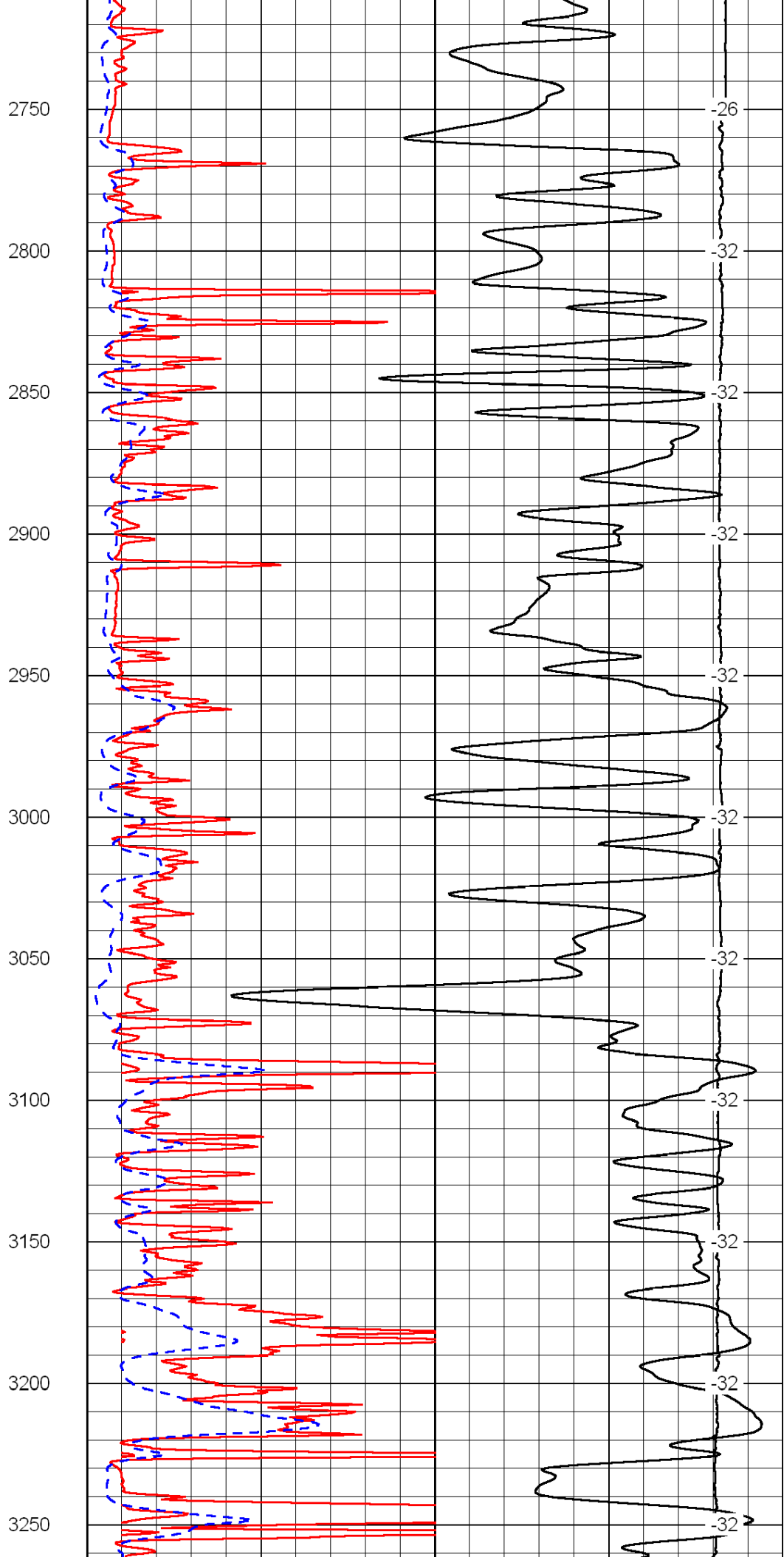
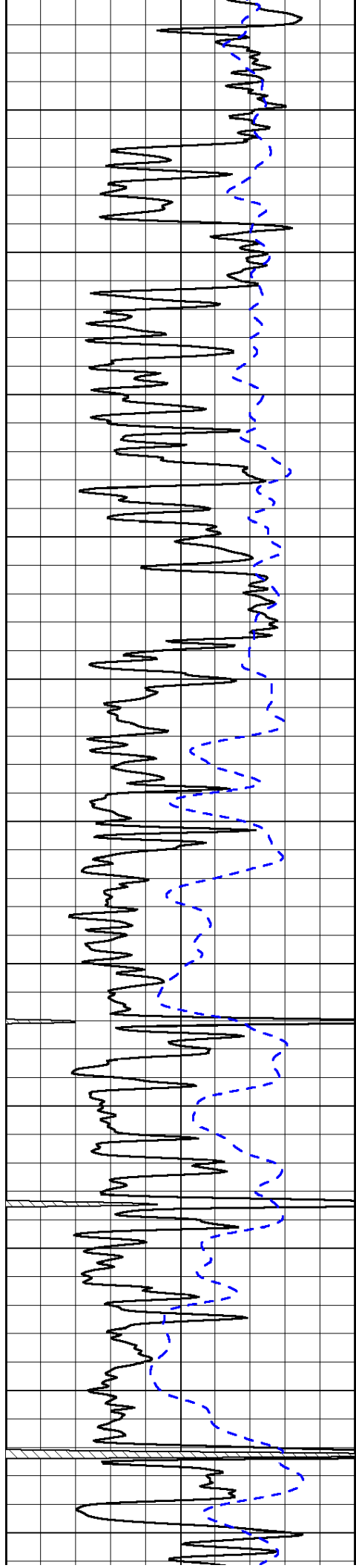
Hays, Ks; 8-1/4 South
West Into Location

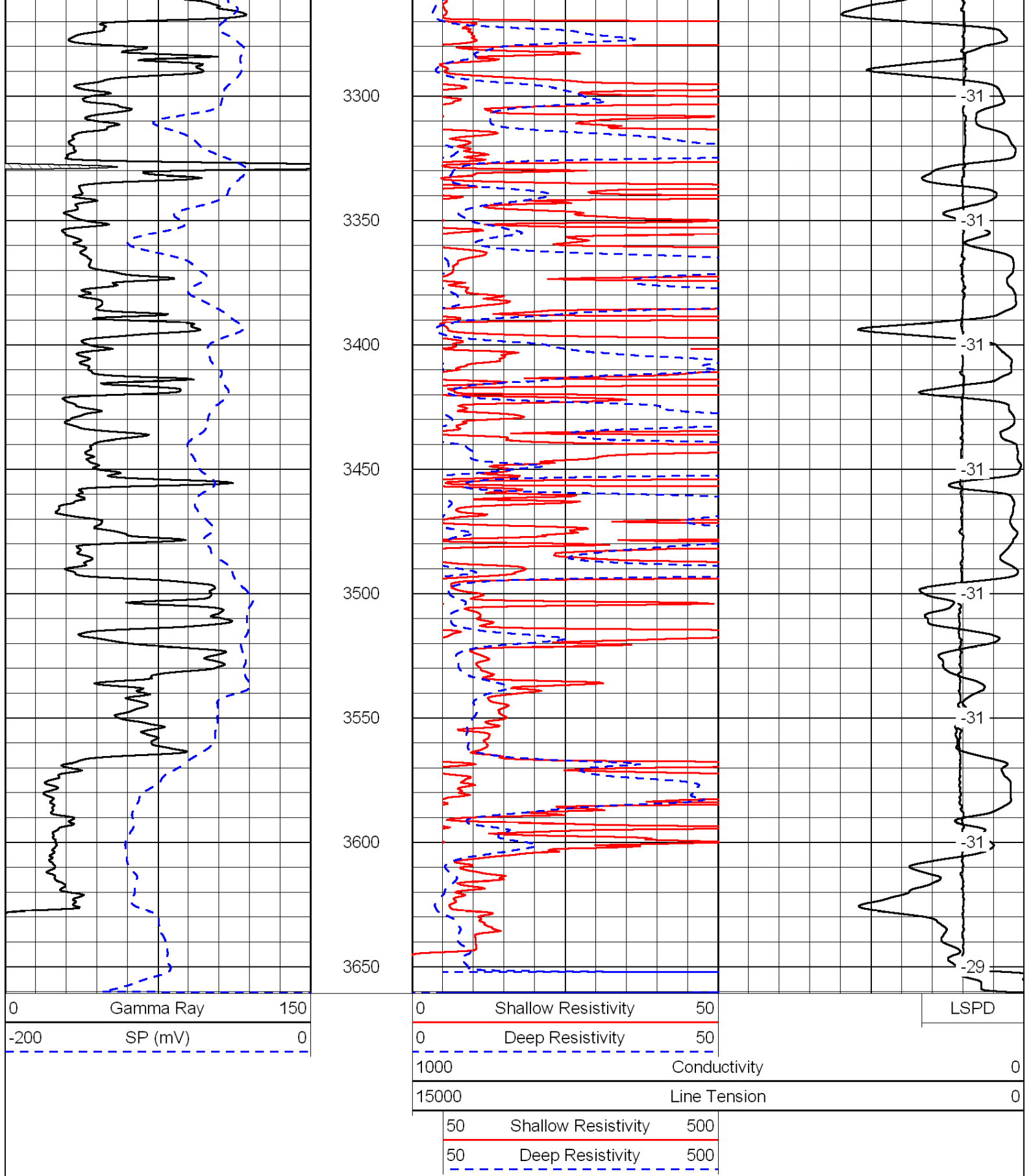
Charted by: _____ Depth in Feet scaled 1:600								
0	Gamma Ray	150	0	Shallow Resistivity	50	LSPD		
-200	SP (mV)	0	0	Deep Resistivity	50			
			1000	Conductivity		0		
			15000	Line Tension		0		
			50	Shallow Resistivity	500			
			50	Deep Resistivity	500			







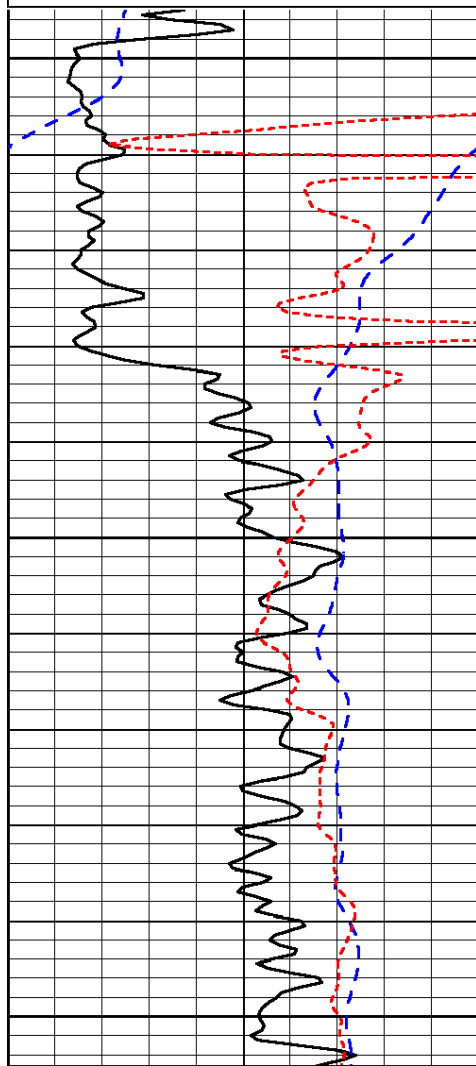




Database File: c:\warrior\data\tdi_engel no. 1\tdihd.db
 Dataset Pathname: DIL\tdistk
 Presentation Format: dil
 Dataset Creation: Thu Apr 07 23:20:28 2011
 Charted by: Depth in Feet scaled 1:240



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



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

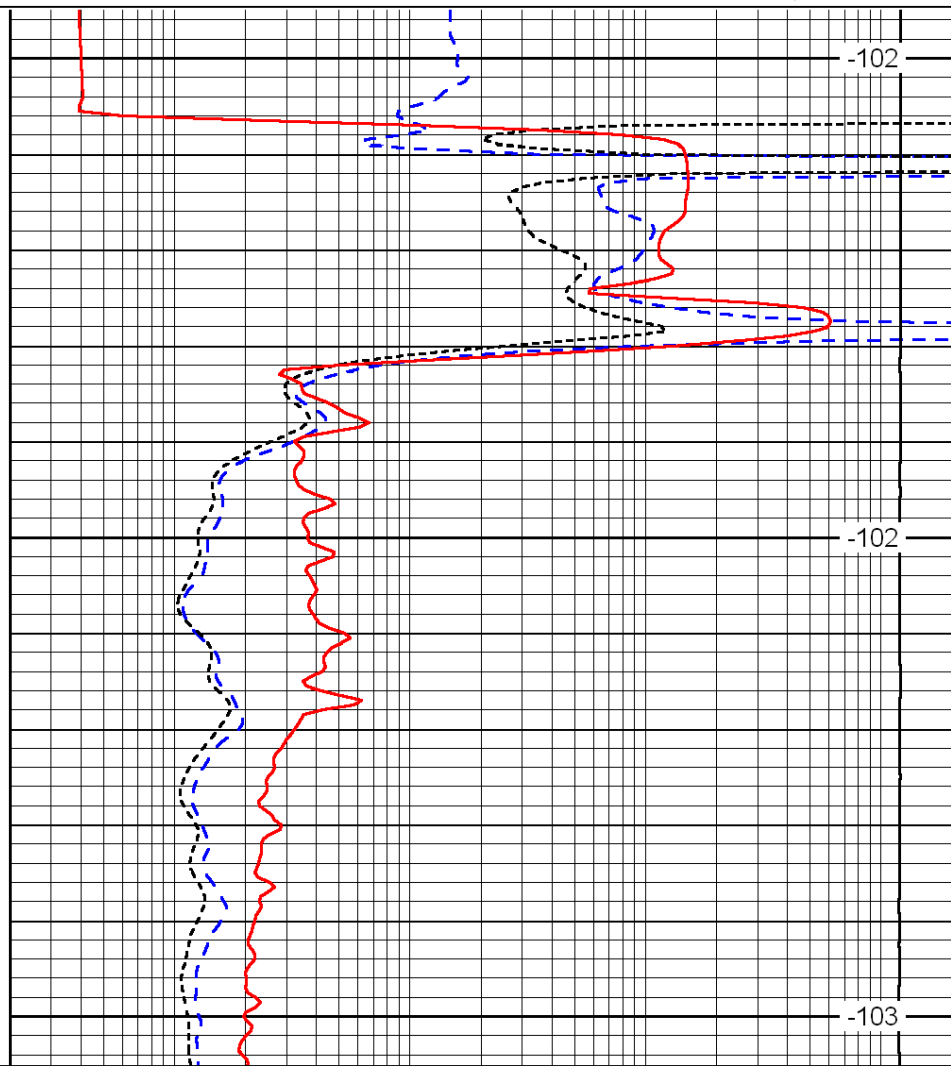
1150

1200

1250

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

LSPD

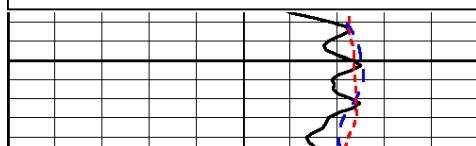


0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD

Database File: c:\warrior\data\tdi_engel no. 1\tdihd.db
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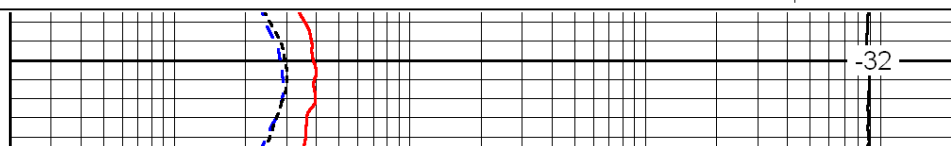
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-200	SP (mV)	0
-160	Rxo / Rt	40



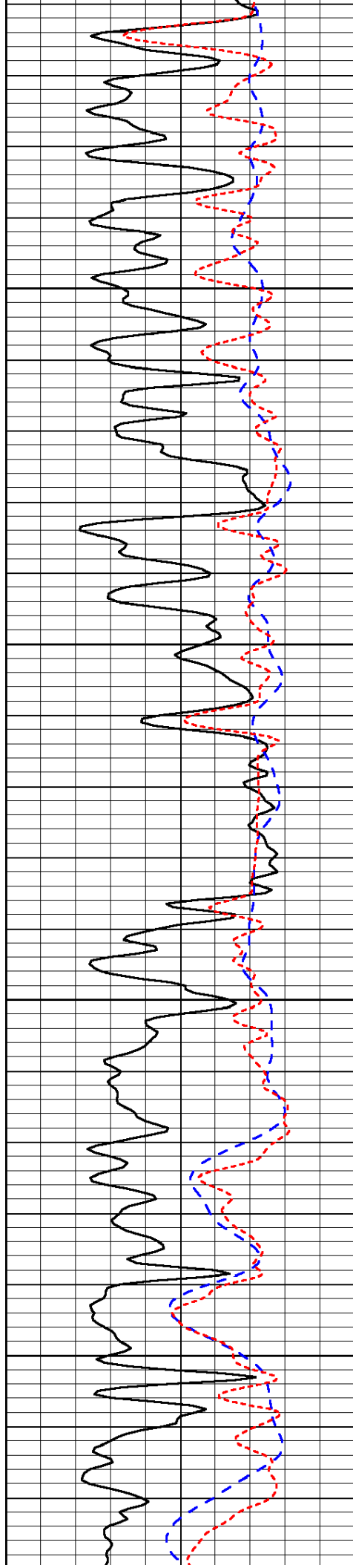
2800

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

LSPD



-32

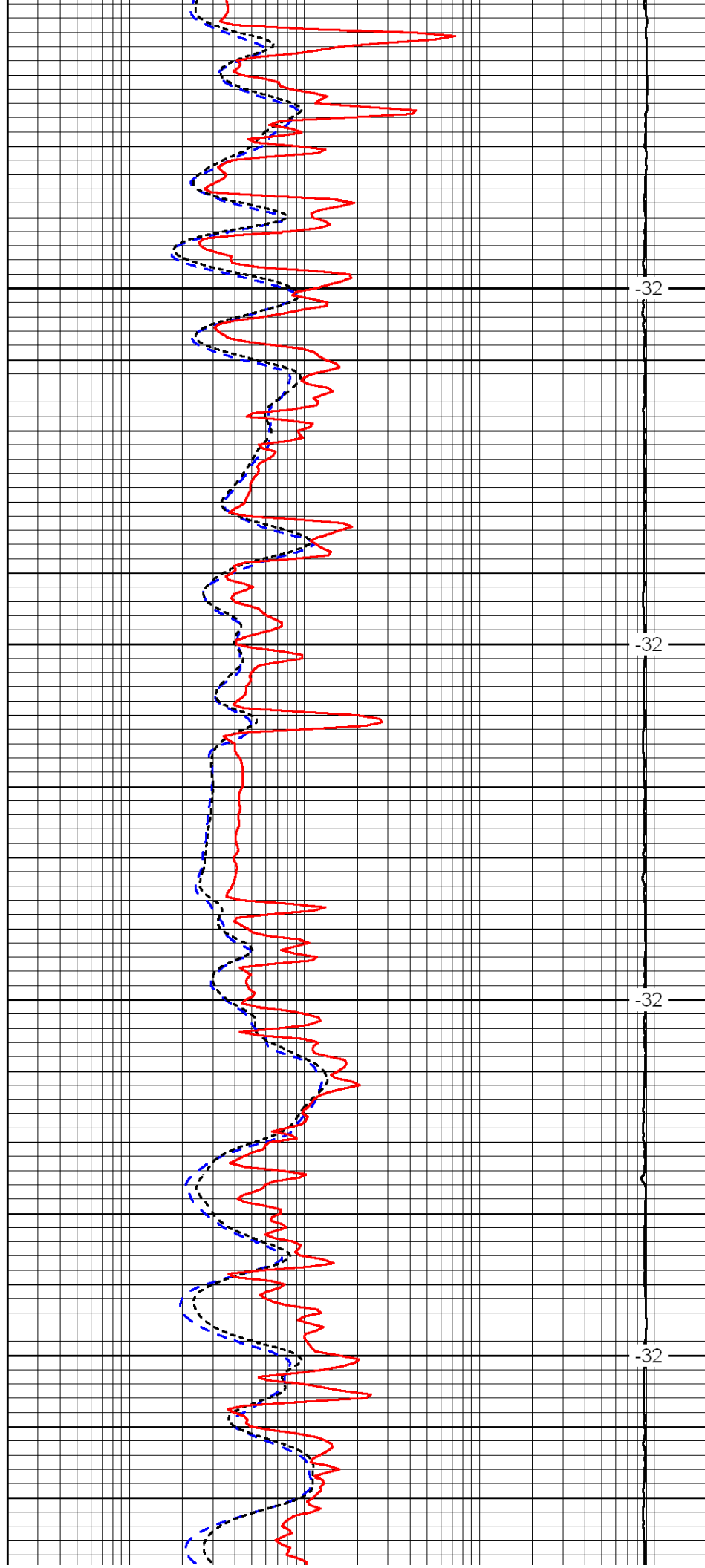


2850

2900

2950

3000

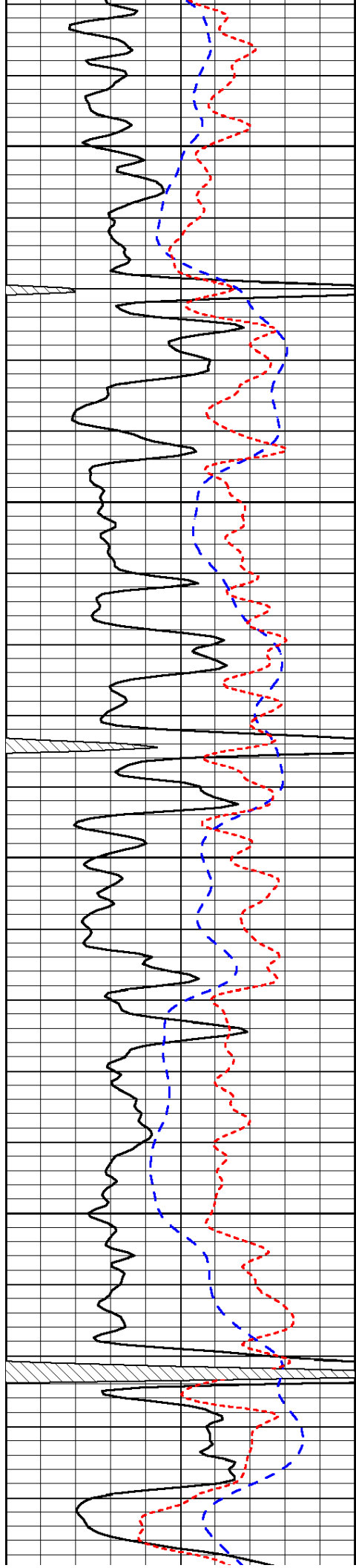


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-32



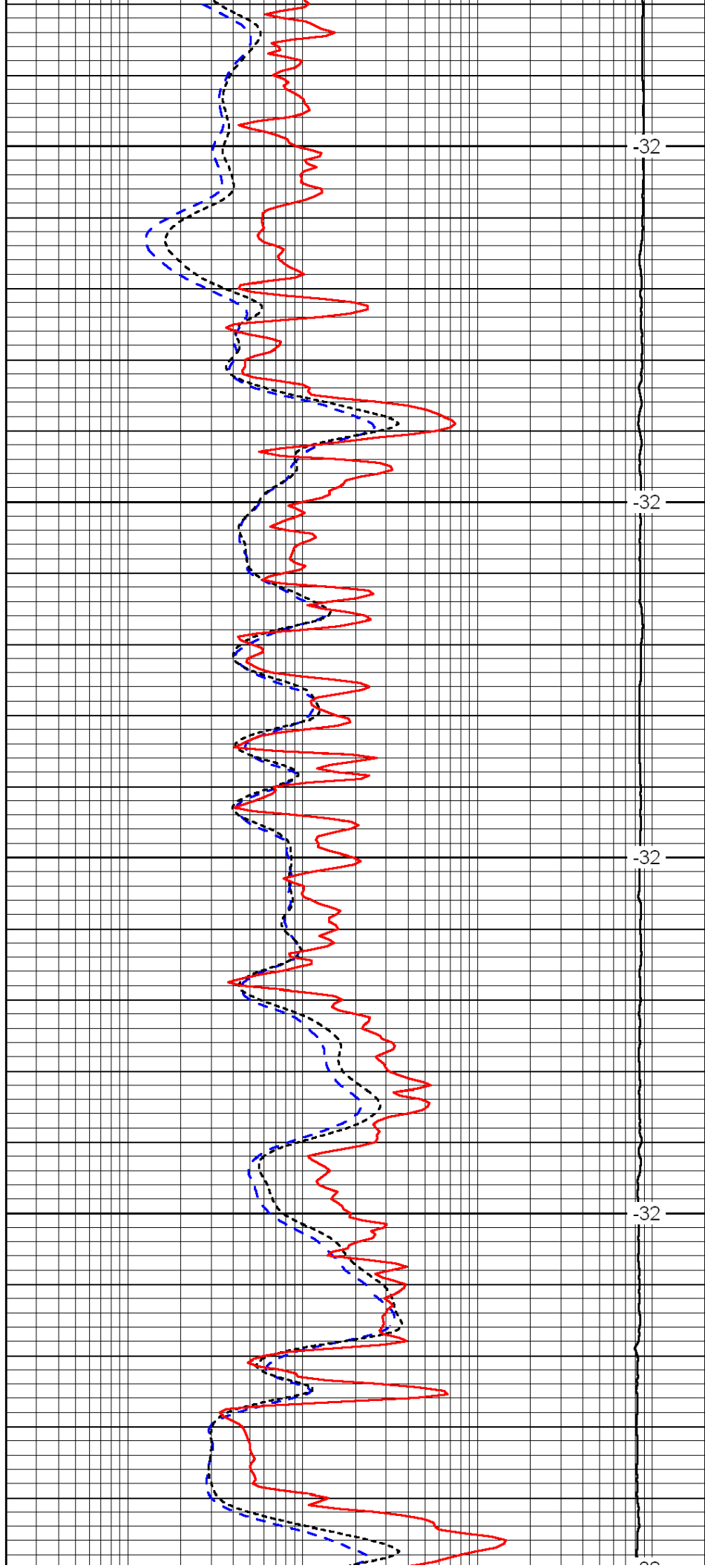
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3100

3150

3200

3250



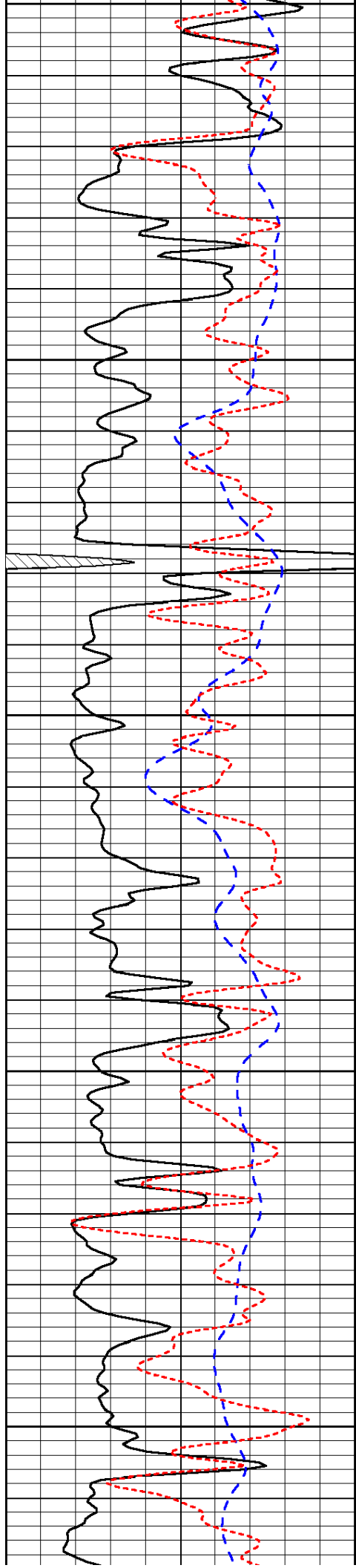
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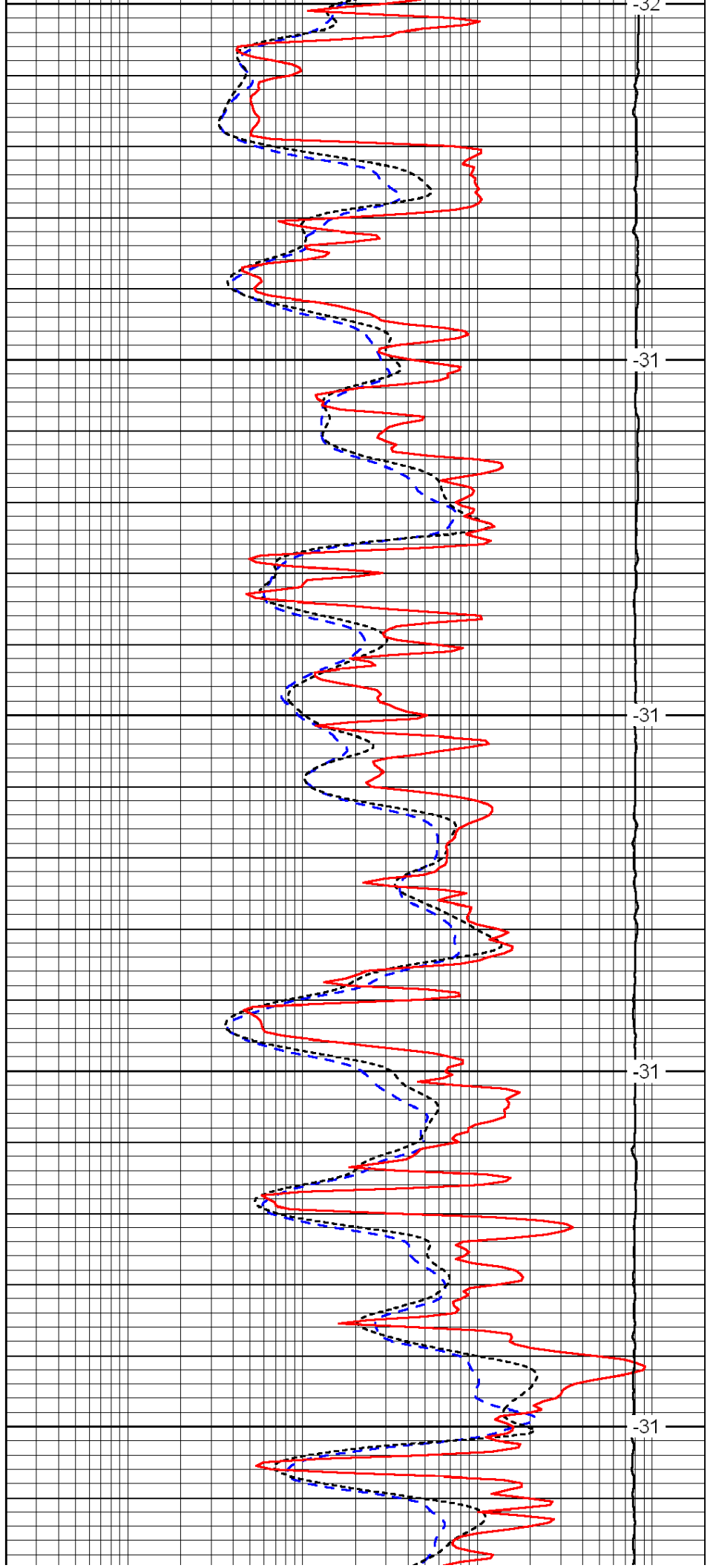
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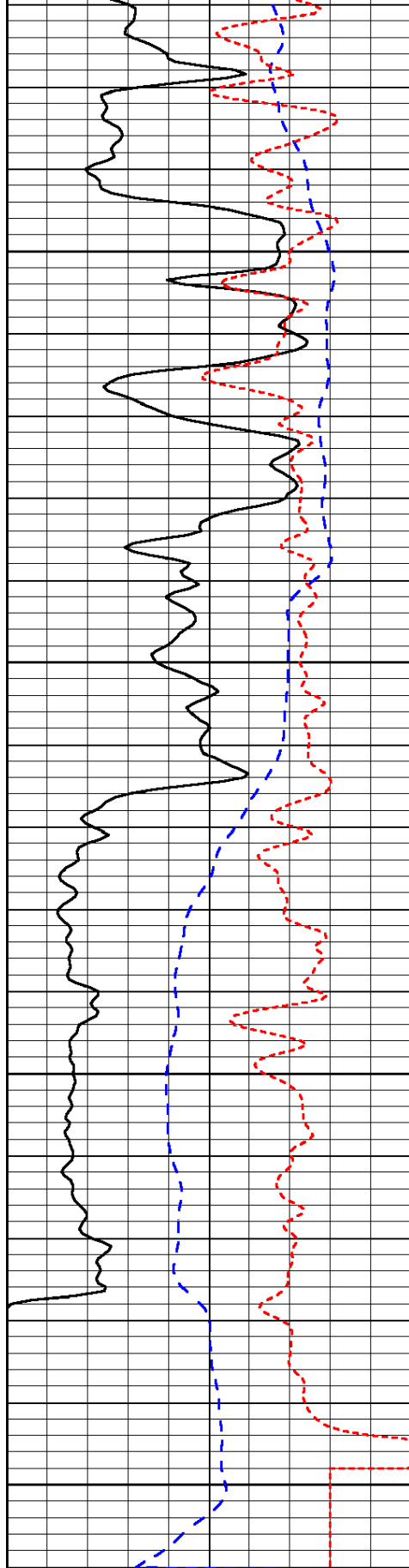
-32



3250
3300
3350
3400
3450



-32
-31
-31
-31
-31



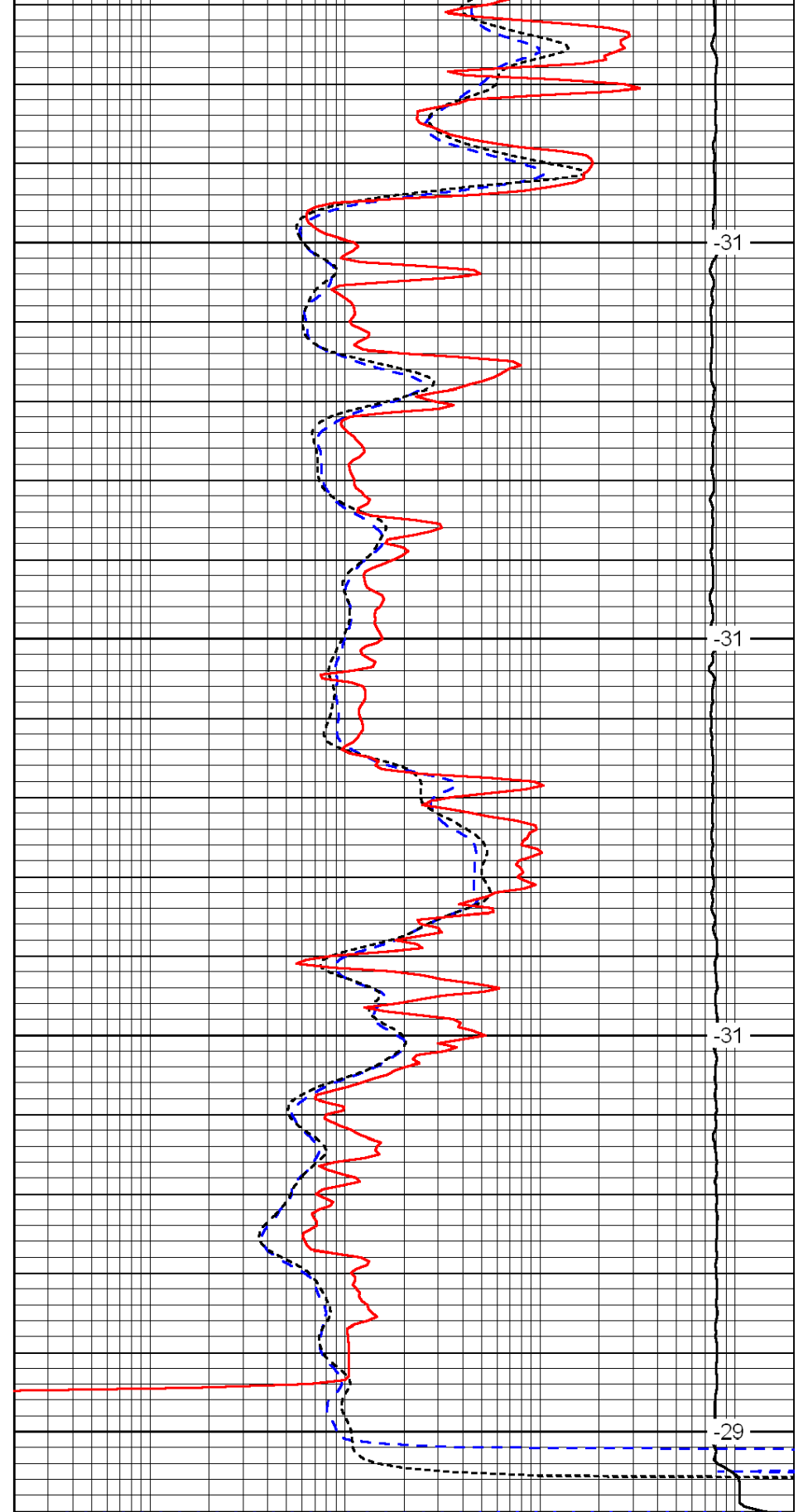
0	Gamma Ray	150
-200	SP (mV)	0
-160	Rxo / Rt	40

3500

3550

3600

3650



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

LSPD