



Dual Induction Log

Pioneer Energy Services

API No.	Company Black Tea Oil, LLC Well Rose No. 1 Field Wildcat County Rush State Kansas		
15-165-21,997-00-00	Location Sec: 34 Twp: 18S Rge: 16W	Other Services CNL/CDL MEL/BHCS	
Permanent Datum	Ground Level	Elevation 1979	
Log Measured From	Kelly Bushing	9 Ft. Above Perm. Datum	
Drilling Measured From	Kelly Bushing	K.B. 1988 D.F. 1979 G.L. 1979	
Date	10/23/2012		
Run Number	One		
Depth Driller	3695		
Depth Logger	3689		
Bottom Logged Interval	3688		
Top Log Interval	1000		
Casing Driller	8.625 @ 1046		
Casing Logger	1040		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	4000		
Density / Viscosity	9.0 40		
pH / Fluid Loss	10.0 9.6		
Source of Sample	Flowline		
Rm @ Meas. Temp	.30 @ 74		
Rmf @ Meas. Temp	.23 @ 74		
Rmc @ Meas. Temp	.41 @ 74		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.20 @ 113		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	113		
Equipment Number	108		
Location	Hays		
Recorded By	J. Long		
Witnessed By	Marc Downing	Chris Leiker	

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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

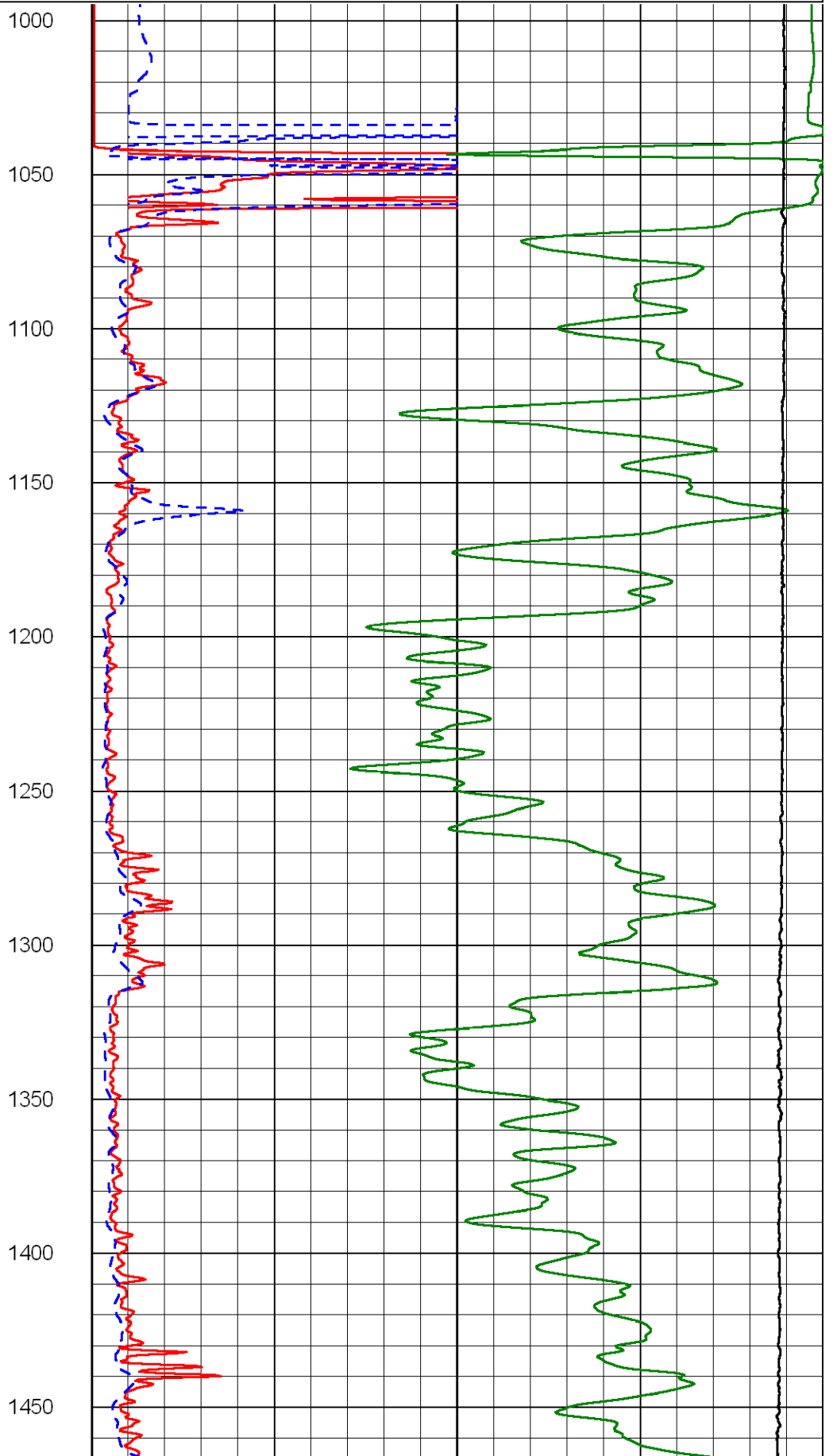
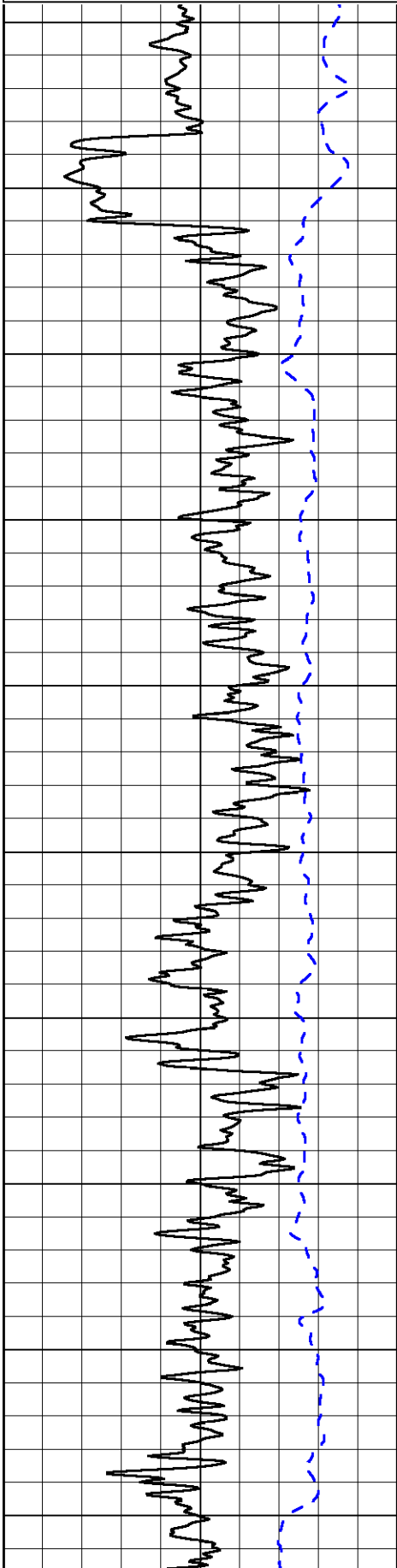
Rush Center, 12 East to 370 Road, 1 South, 3/4 East, South Into

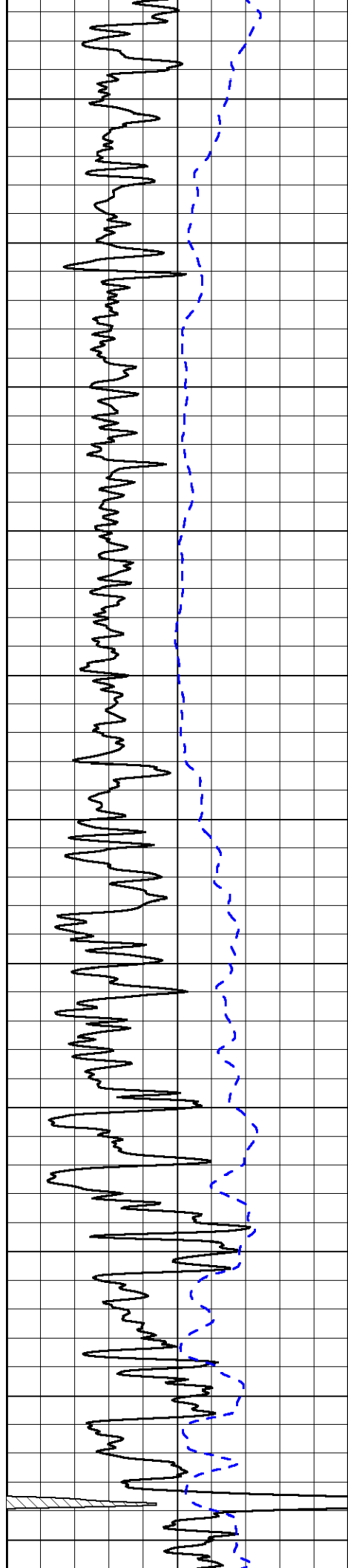
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Dataset Pathname: dil/blackstck
Presentation Format: dil2in
Dataset Creation: Tue Oct 23 15:05:40 2012
Charted by: Depth in Feet scaled 1:600

0	Gamma Ray	150
-200	SP	0

0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0

50	Shallow Resistivity	500
50	Deep Resistivity	500





1500

1550

1600

1650

1700

1750

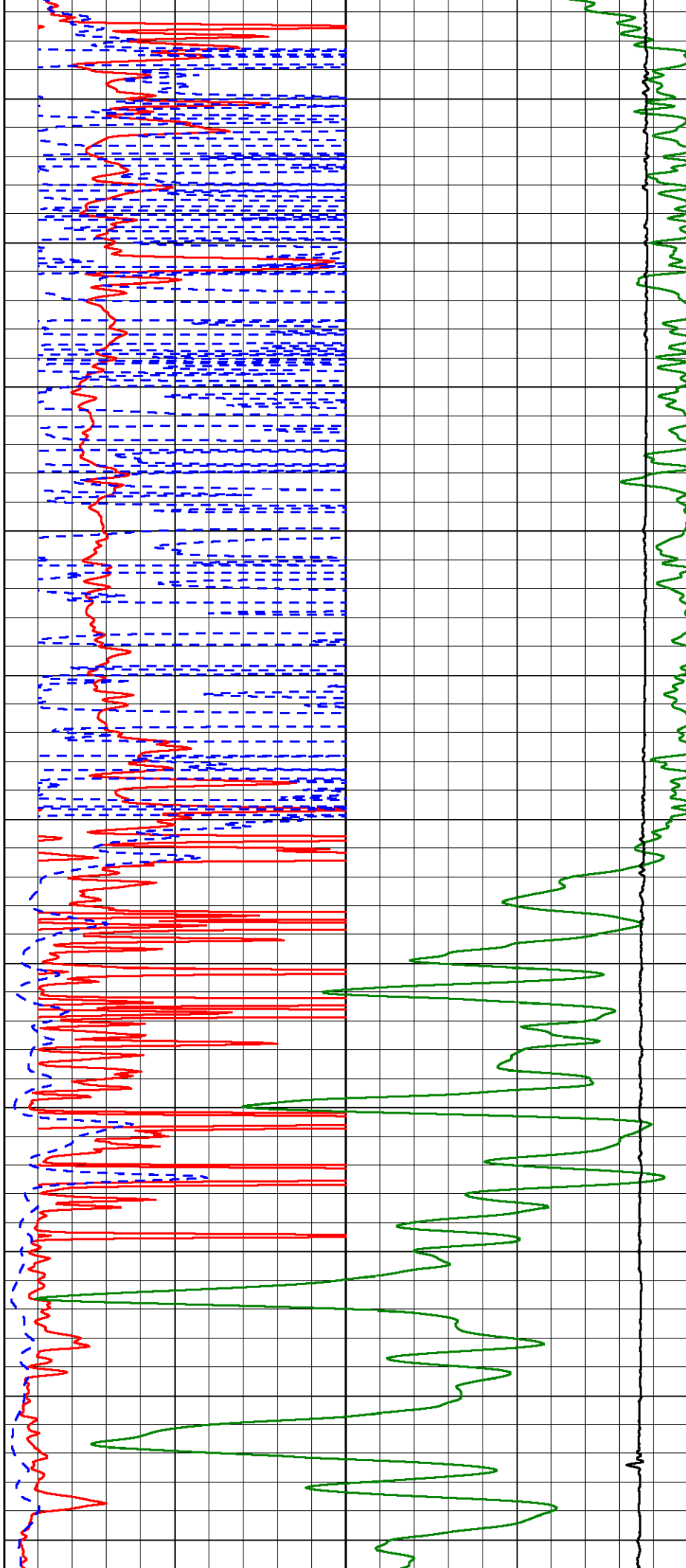
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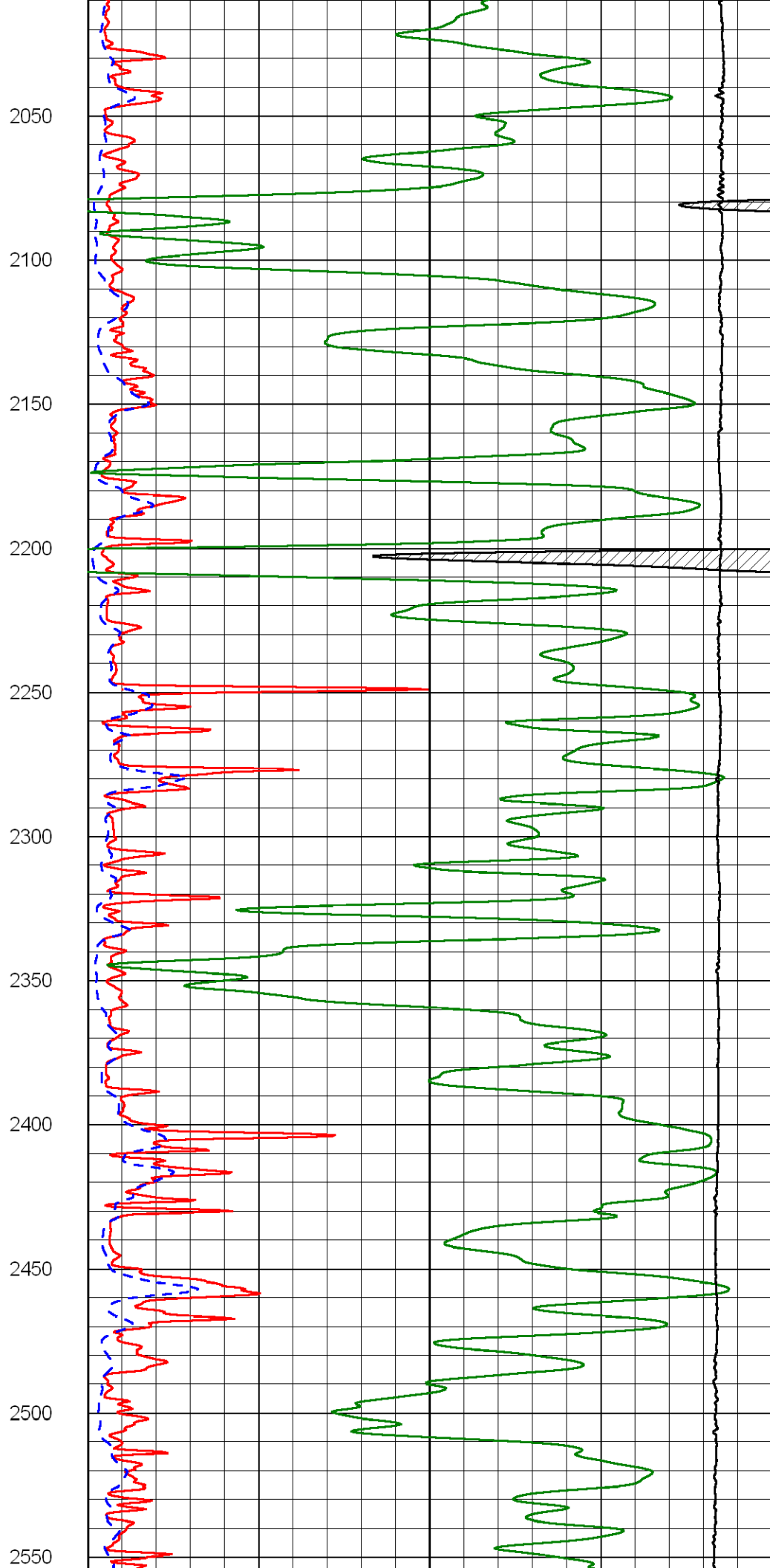
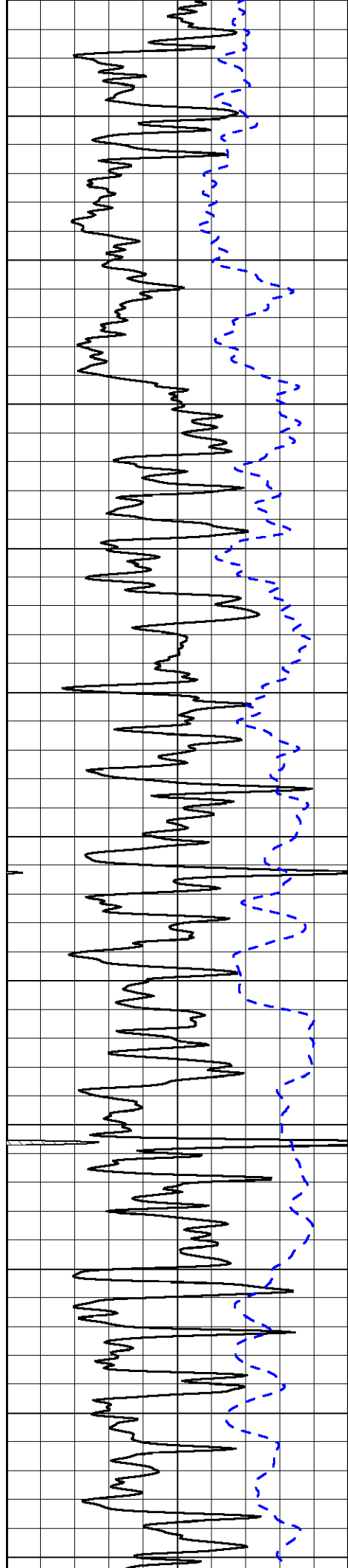
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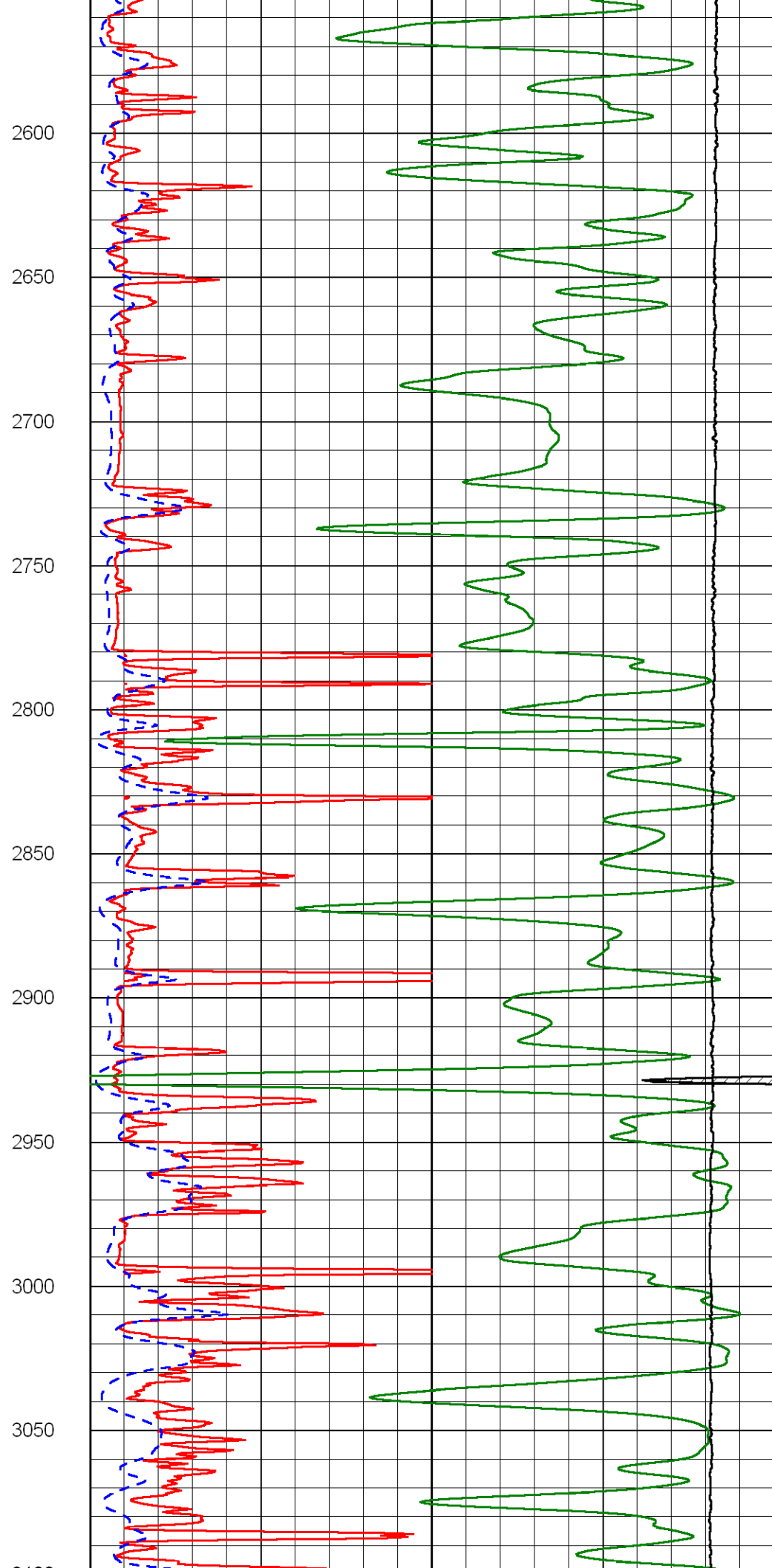
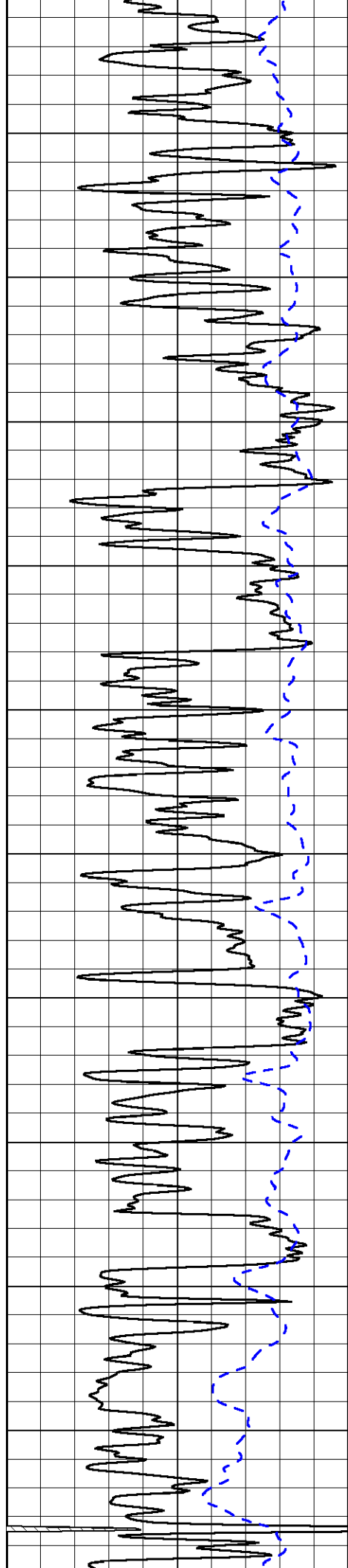
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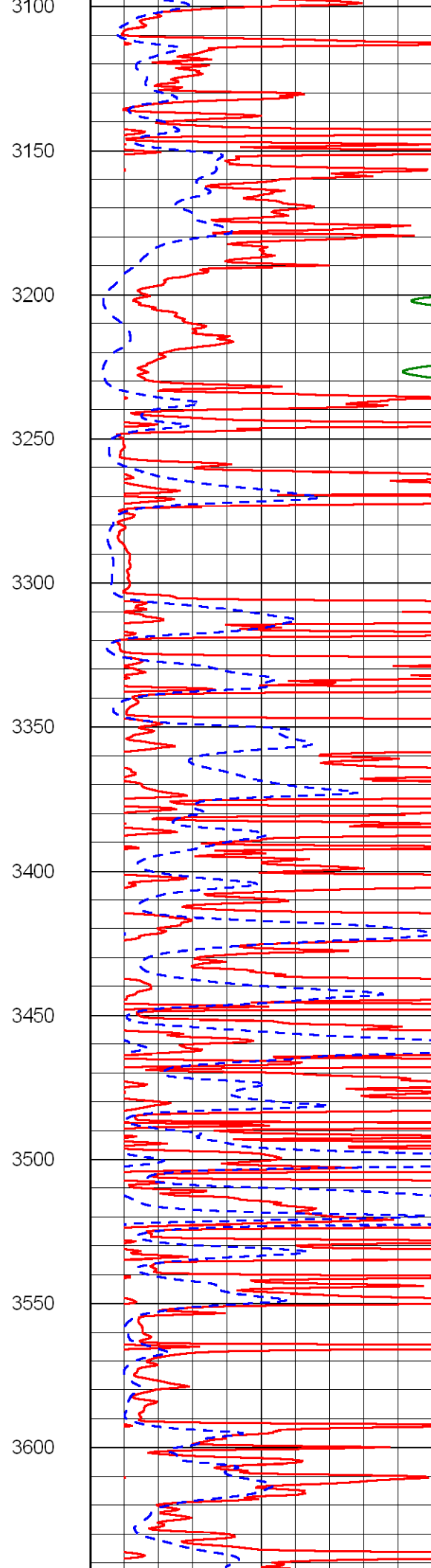
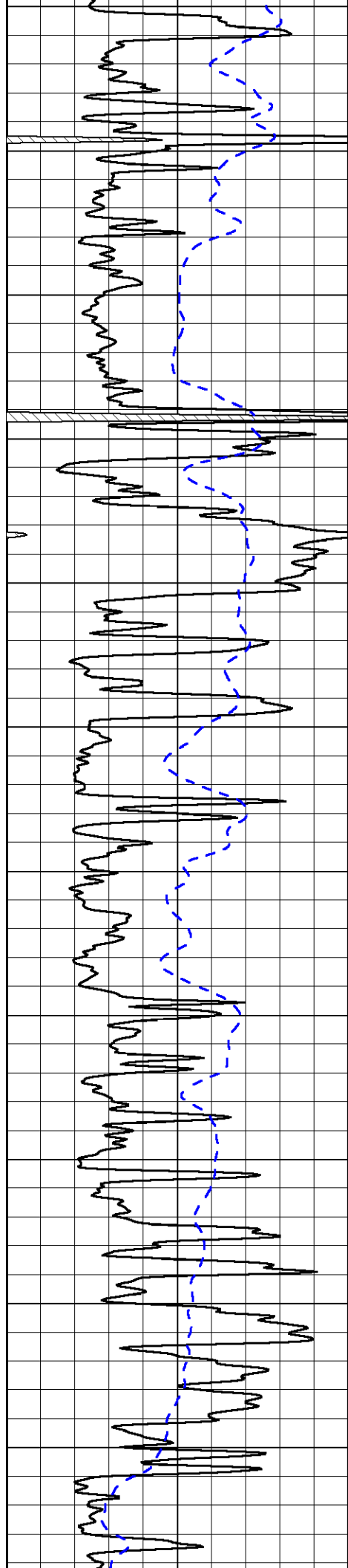
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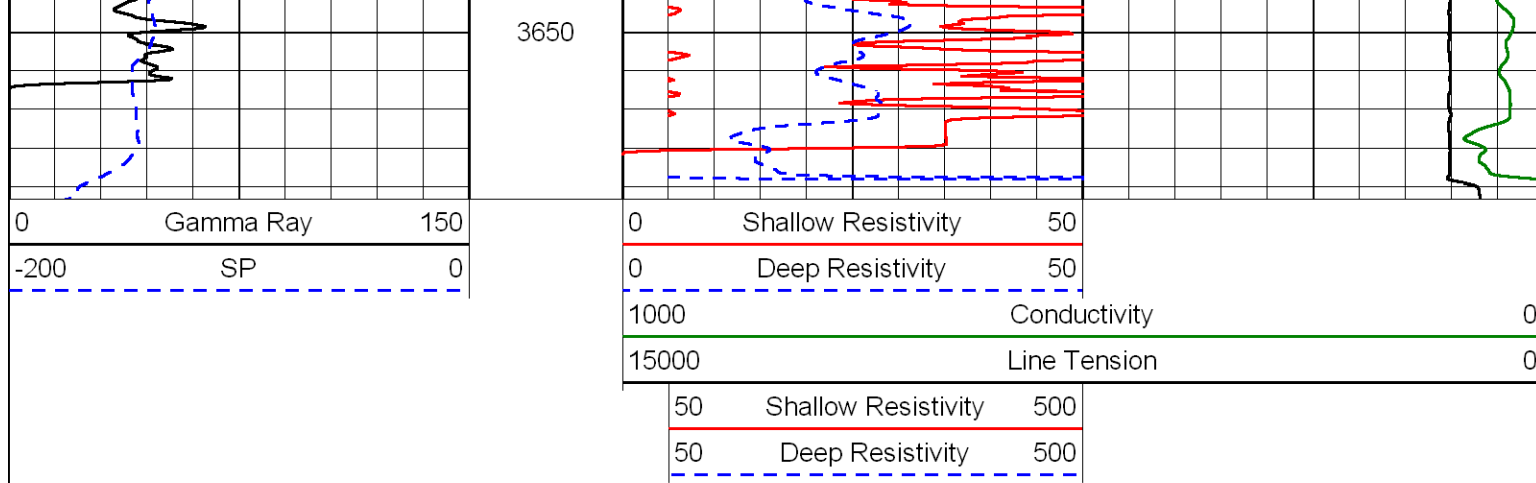
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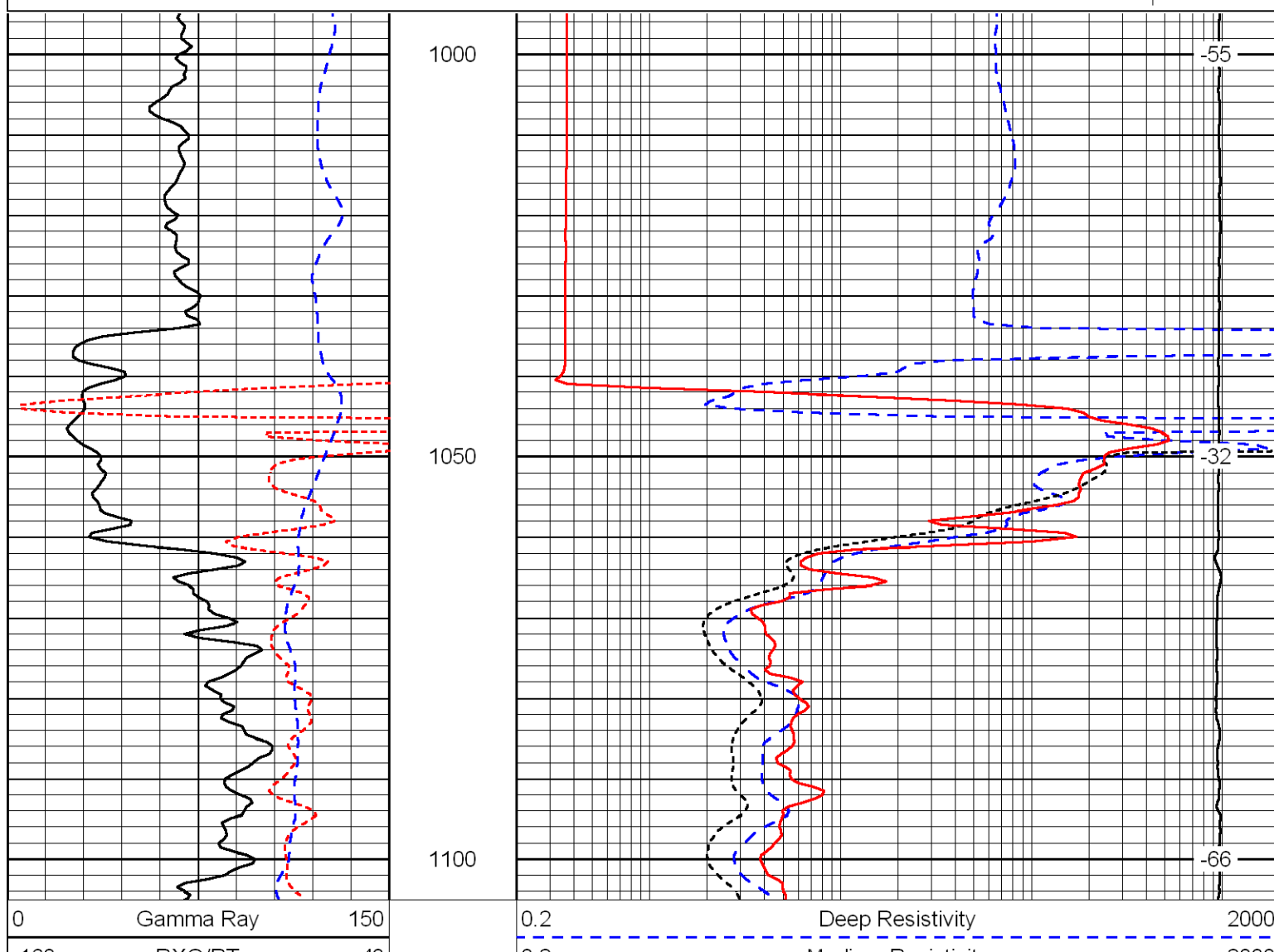
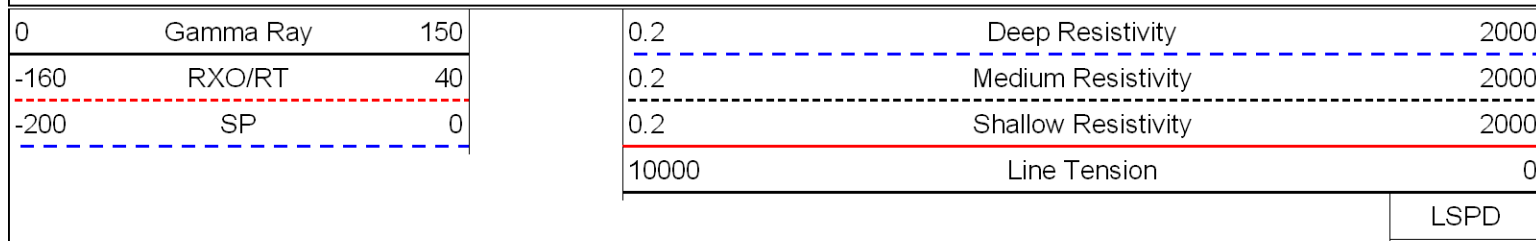








Database File: blacktea_rose_1hd.db
 Dataset Pathname: dil/blackstck
 Presentation Format: dil
 Dataset Creation: Tue Oct 23 15:05:40 2012
 Charted by: Depth in Feet scaled 1:240



-160	RXO/RT	40
-200	SP	0

0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

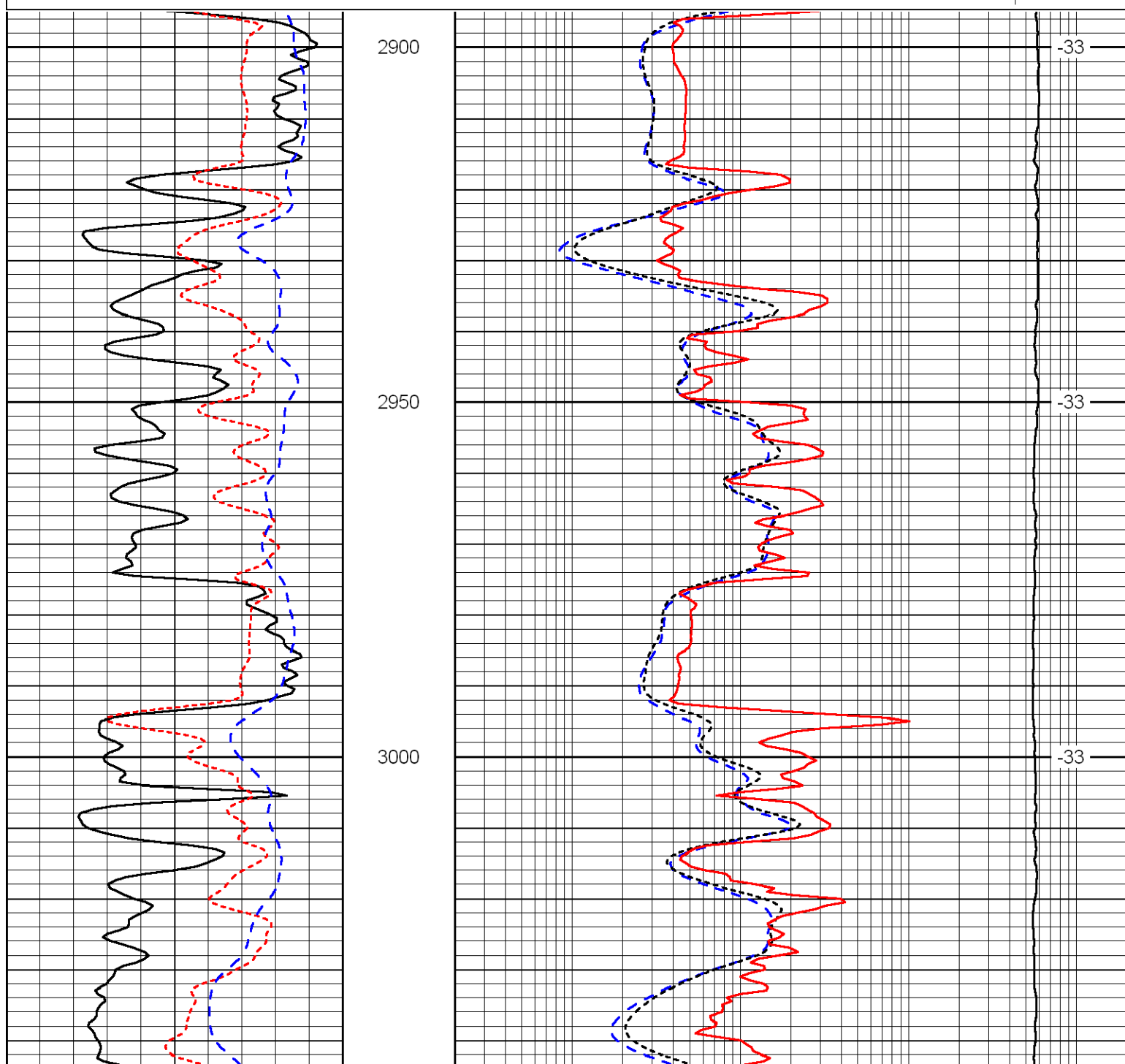
LSPD

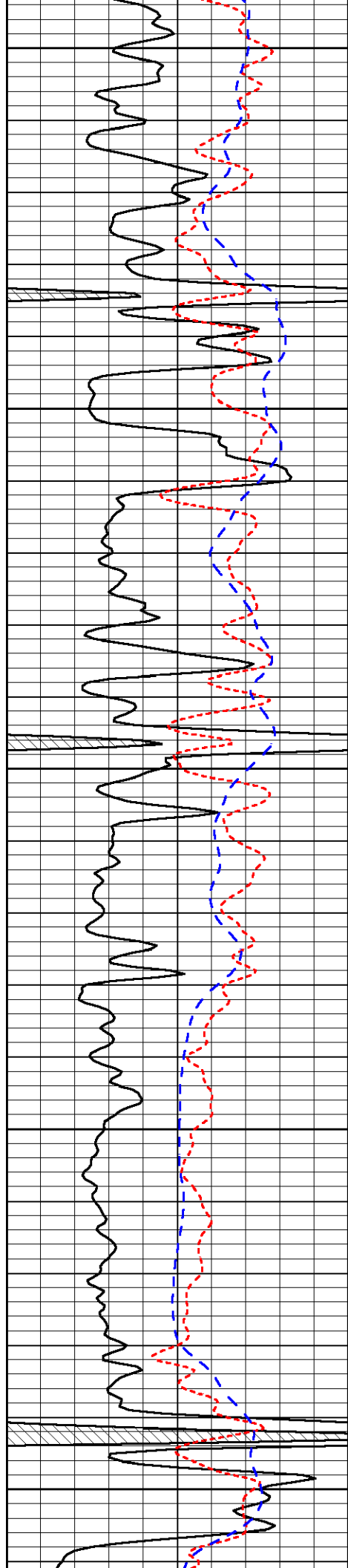
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Presentation Format: dil
Dataset Creation: Tue Oct 23 15:05:40 2012
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
-160	RXO/RT	40
-200	SP	0

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD





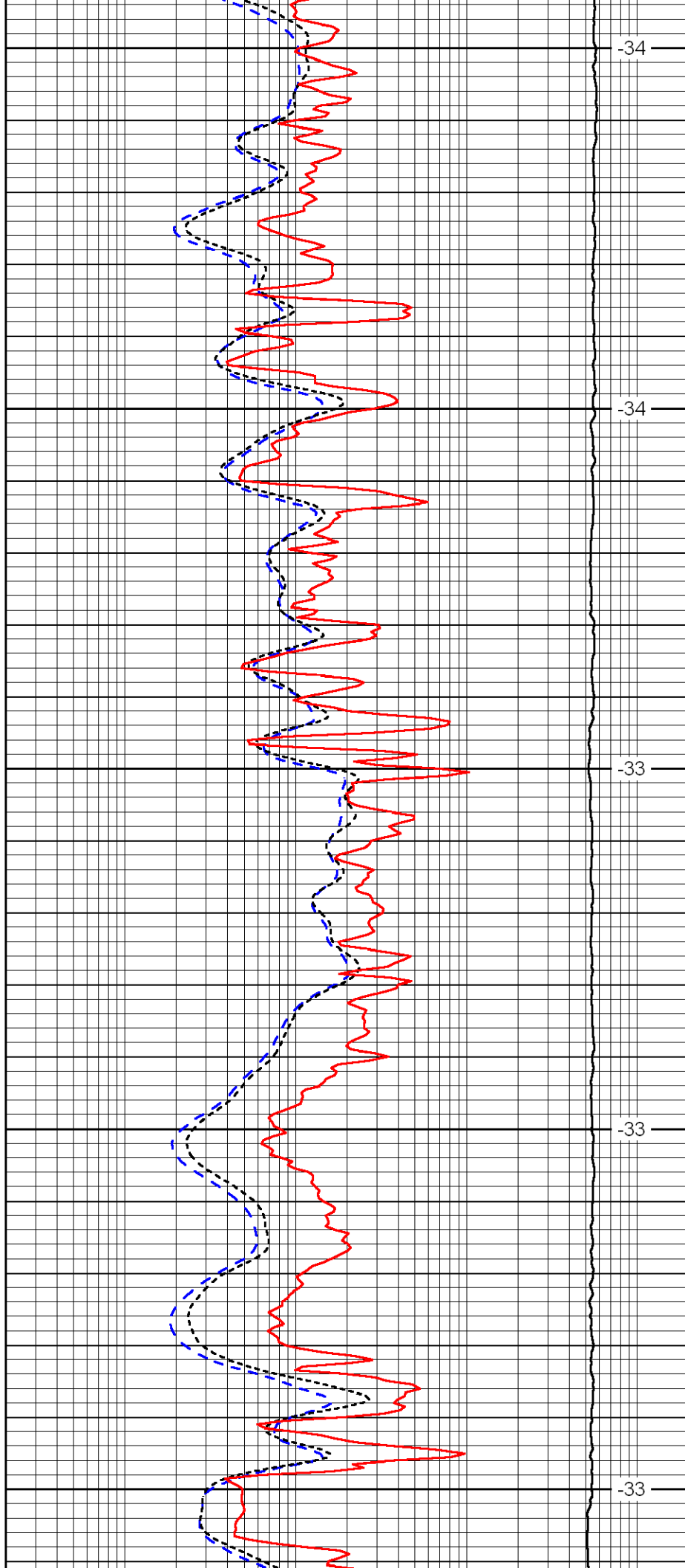
3050

3100

3150

3200

3250



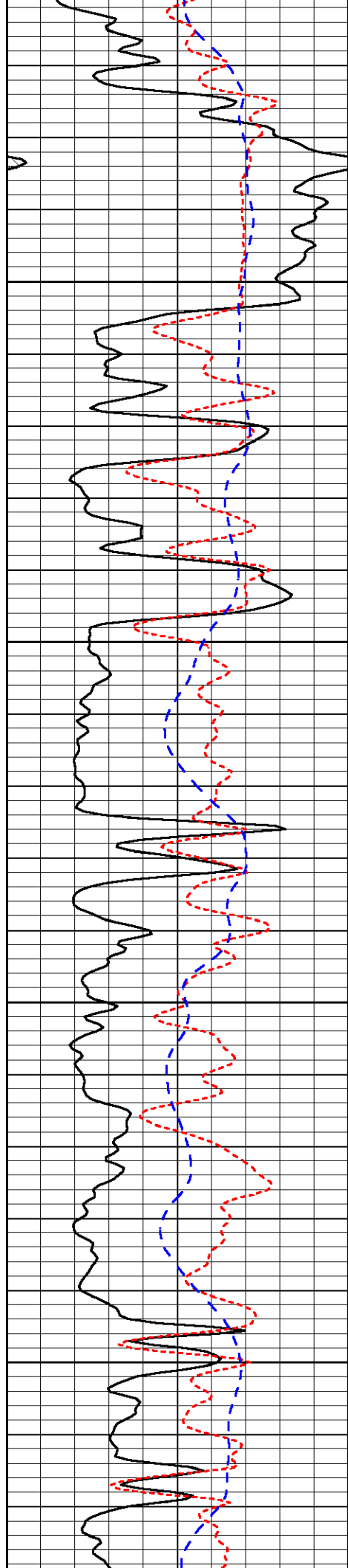
-34

-34

-33

-33

-33

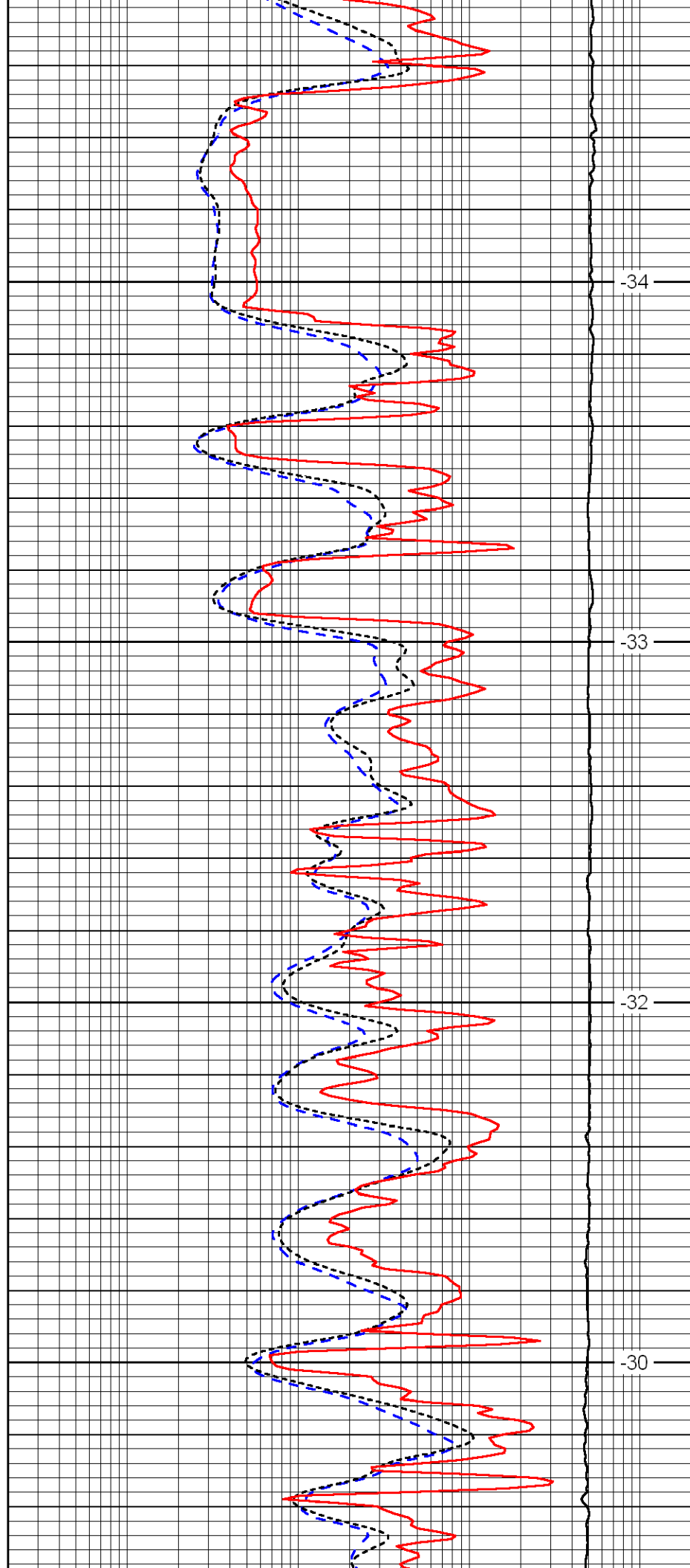


3300

3350

3400

3450

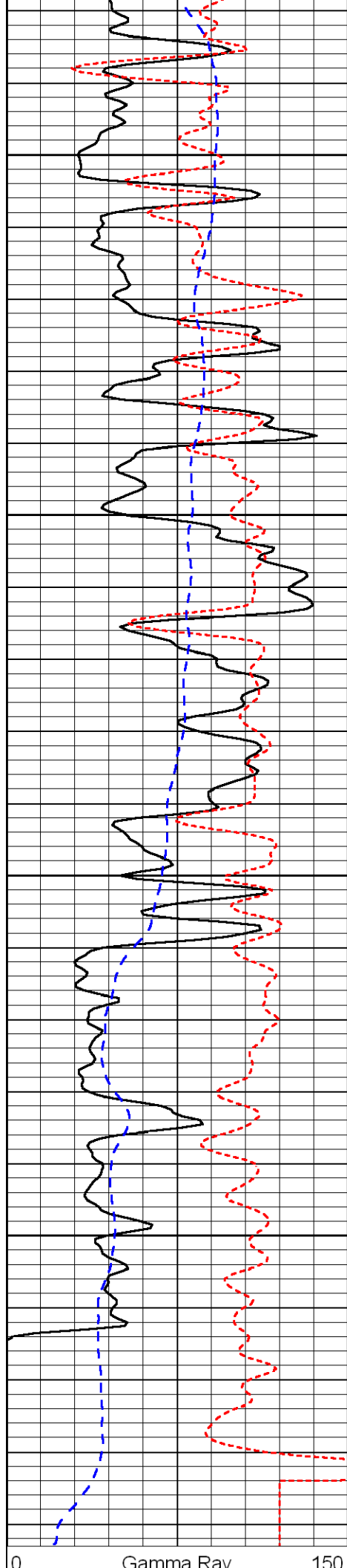


-34

-33

-32

-30

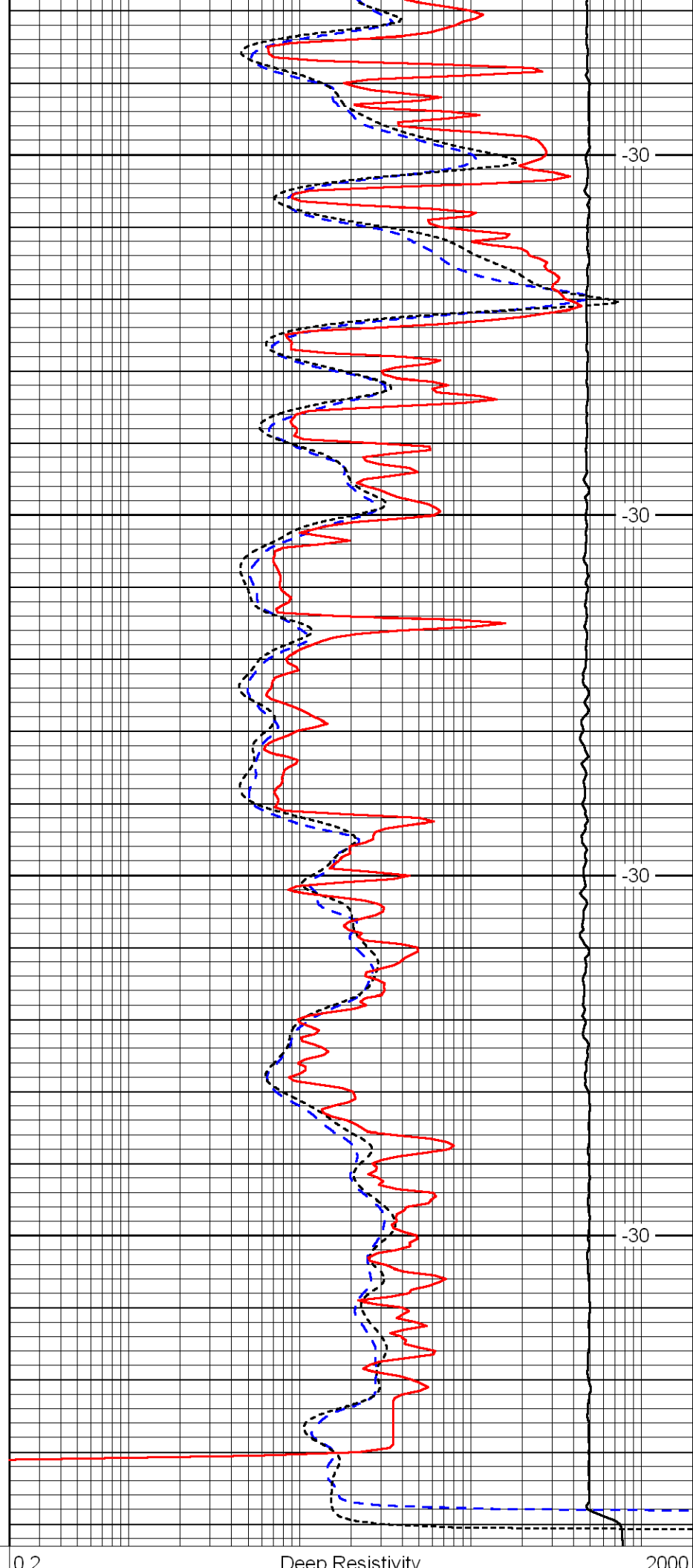


3500

3550

3600

3650



-30

-30

-30

-30

Gamma Ray		
-160	RXO/RT	40
-200	SP	0

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0
		LSPD