PIONEER

Pioneer Energy Services

Dual Induction Log

Company	H&C Oil Operating, Inc.
Well	North Fork Farms #36-1
Field	Shaw Creek Southeast
County	Trego
State	Kansas
API No.	15-195-22,971-00-00
Location	1320' FSL & 500' FEL
Sec: 36	Twp: 11S Rge: 22W
Permanent Datum	Ground Level
Log Measured From	Kelly Bushing
Drilling Measured From	Kelly Bushing
Elevation	2364
	8 Ft. Above Perm. Datum
Other Services	CNL/CDL MEL/BHCS
Elevation	K.B. 2372
	D.F.
	G.L. 2364

Date	11/16/2014			
Run Number	One			
Depth Driller	4154			
Depth Logger	4154			
Bottom Logged Interval	4153			
Top Log Interval	200			
Casing Driller	8.625 @ 223			
Casing Logger	222			
Bit Size	7.875			
Type Fluid in Hole	Chemical			
Salinity,ppm CL	4000			
Density / Viscosity	9.3 | 46			
pH / Fluid Loss	9.5 | 8.8			
Source of Sample	Flowline			
Rm @ Meas. Temp	0.85 @ 38			
Rmf @ Meas. Temp	0.64 @ 38			
Rmc @ Meas. Temp	1.15 @ 38			
Source of Rmf / Rmc	Charts			
Rm @ BHT	0.27 @ 118			
Operating Rig Time	4 1/2 Hours			
Max Rec. Temp. F	118			
Equipment Number	15			
Location	Hays			
Recorded By	D.Kerr			
Witnessed By	Al Downing			

<<< Fold Here >>>

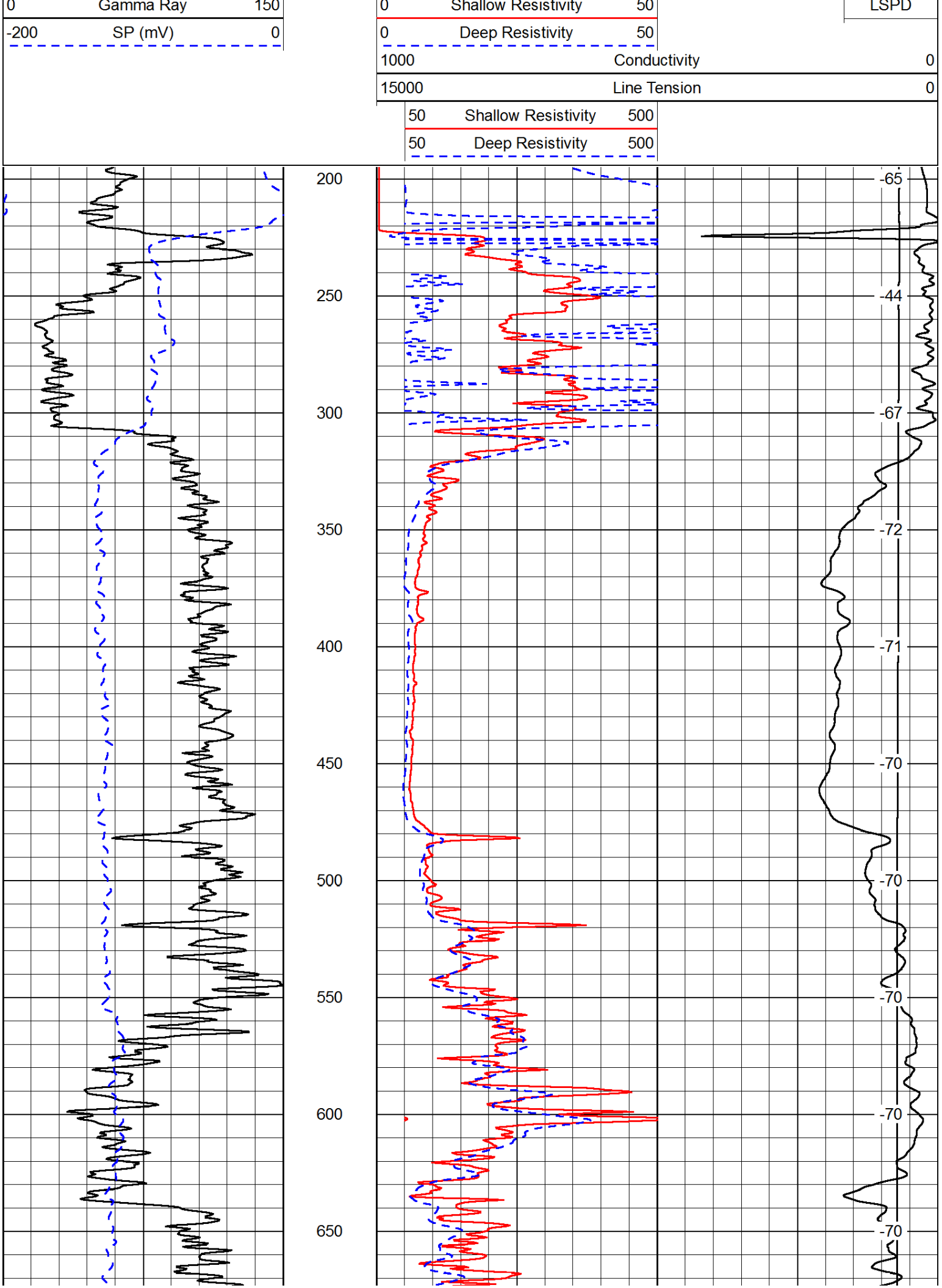
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

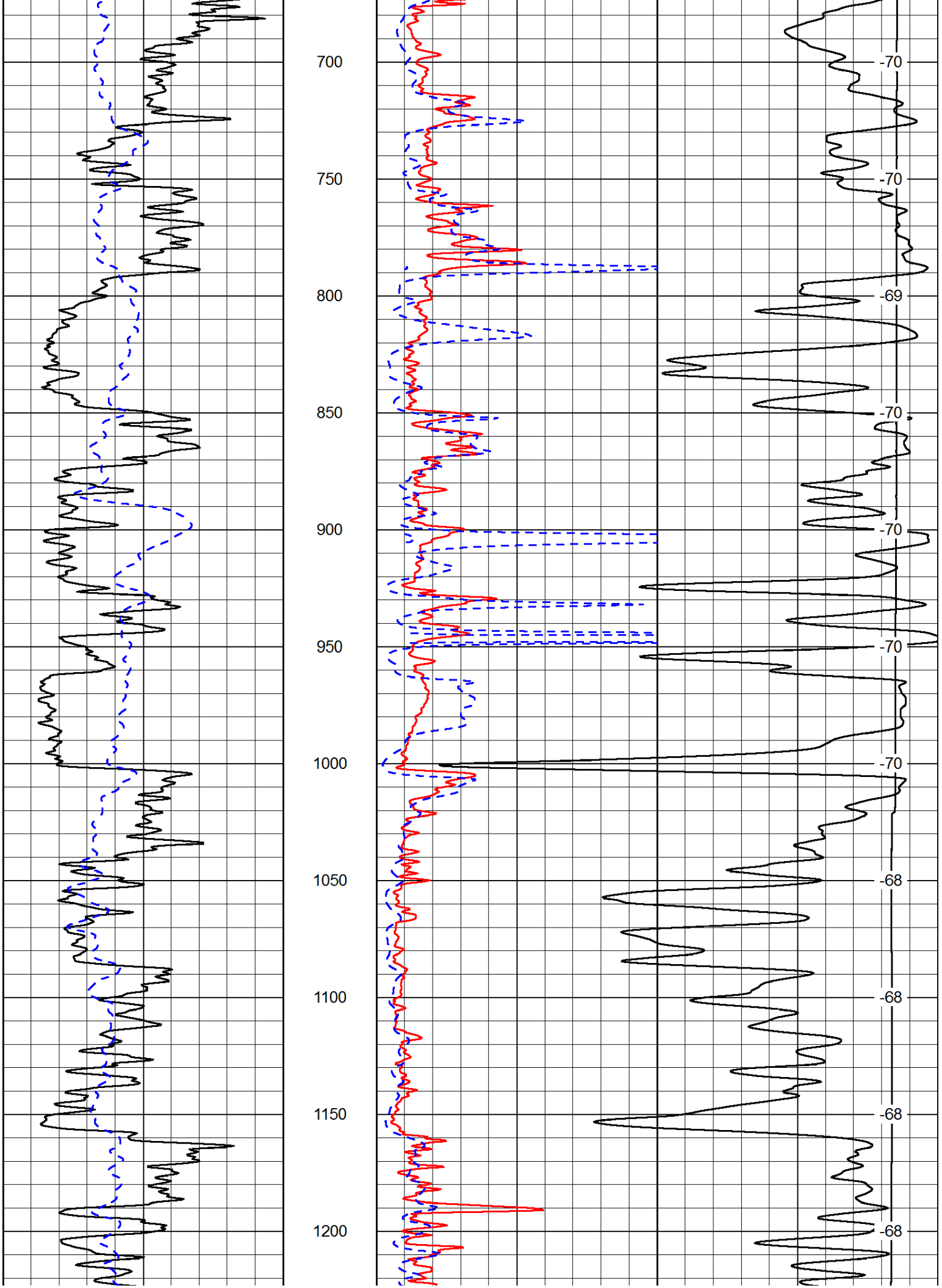
Comments

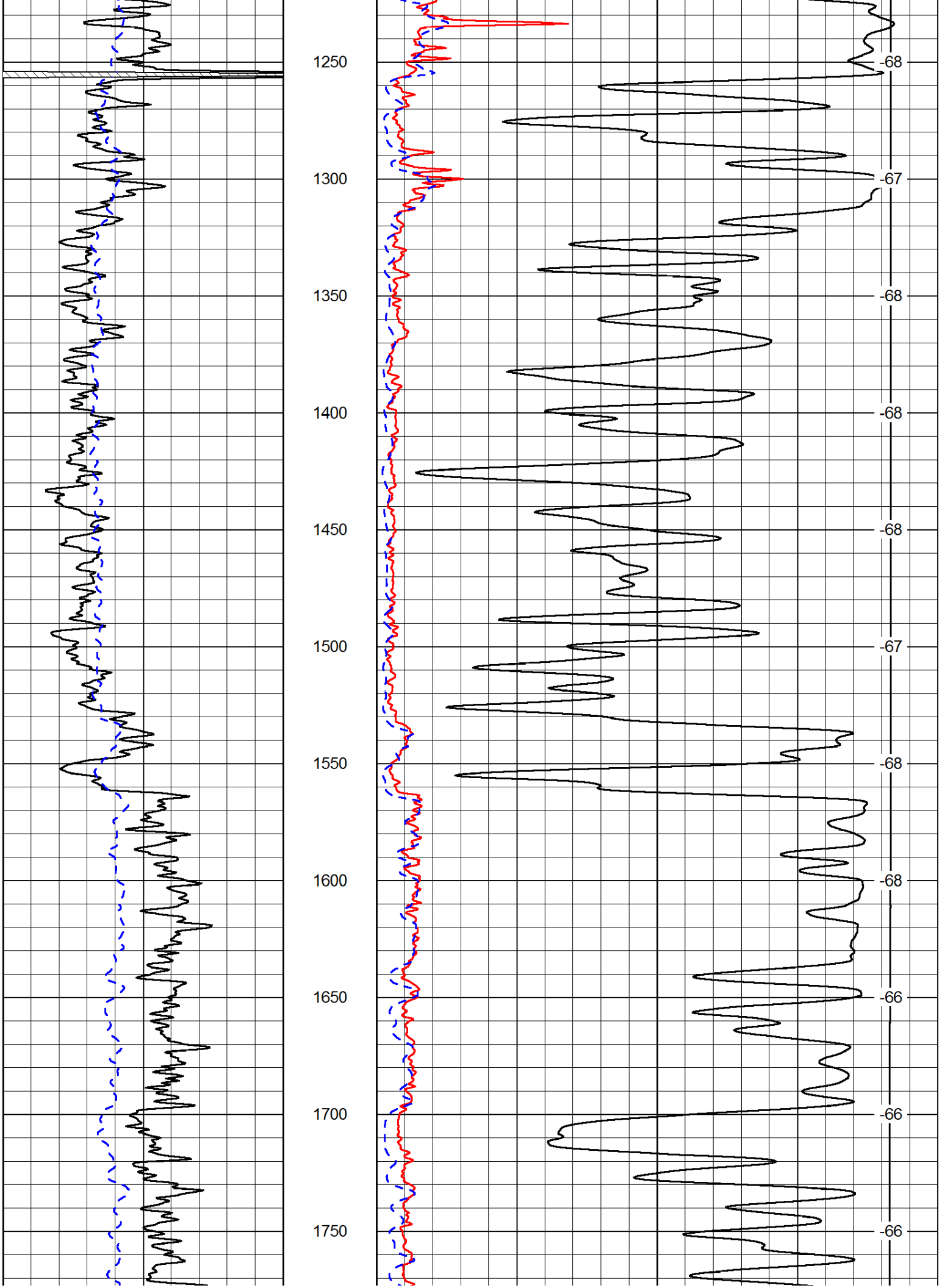
Thank you for using Pioneer Energy Services
www.pioneeres.com
785 625 3858

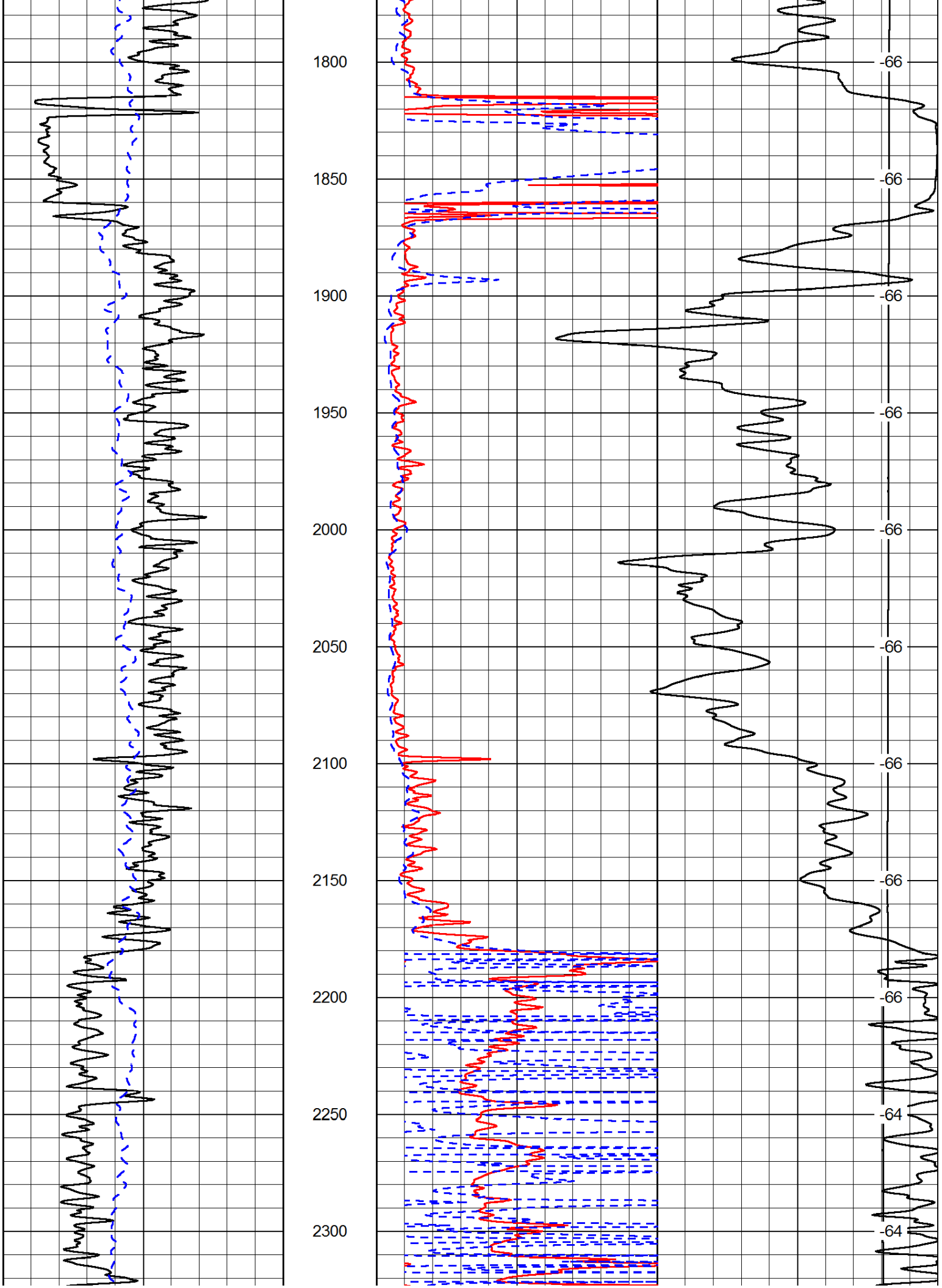
I-70 and Riga RD Exit, North to H RD,
West to 350 RD, 1 North, 1/8 West, North Into

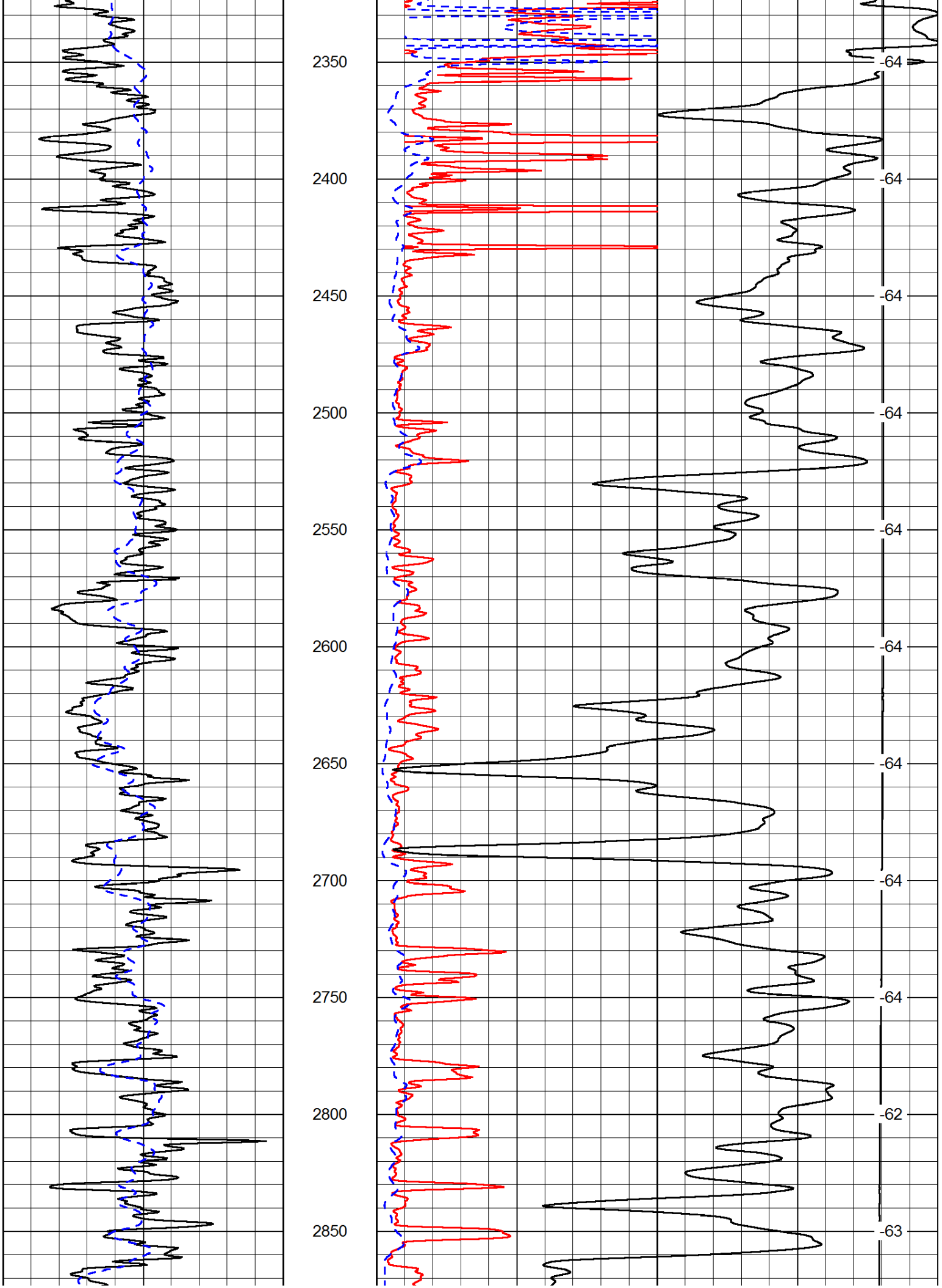
Database File:	c:\warrior\data\h&c_north fork farms #36-1\h&c_northforkfarms_36_1hd.db
Dataset Pathname:	DIL/hcstk
Presentation Format:	dil2in
Dataset Creation:	Sun Nov 16 03:39:25 2014
Charted by:	Depth in Feet scaled 1:600

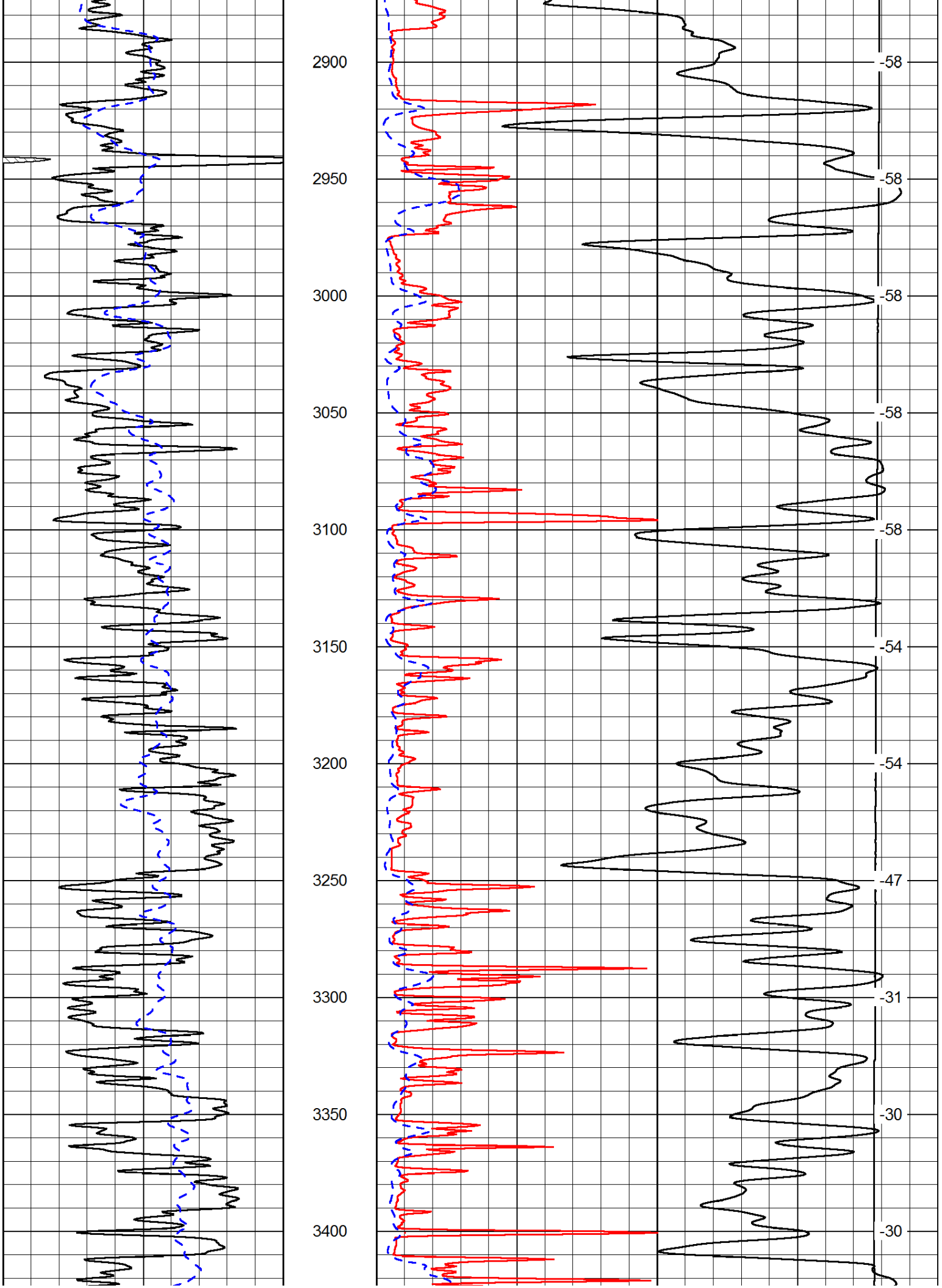

0 Gamma Ray 150
-200 SP (mV) 0
0 Shallow Resistivity 50
0 Deep Resistivity 50
1000 Conductivity 0
15000 Line Tension 0
50 Shallow Resistivity 500
50 Deep Resistivity 500
LSPD
200
250
300
350
400
450
500
550
600
650
-65
-44
-67
-72
-71
-70
-70
-70
-70
-70

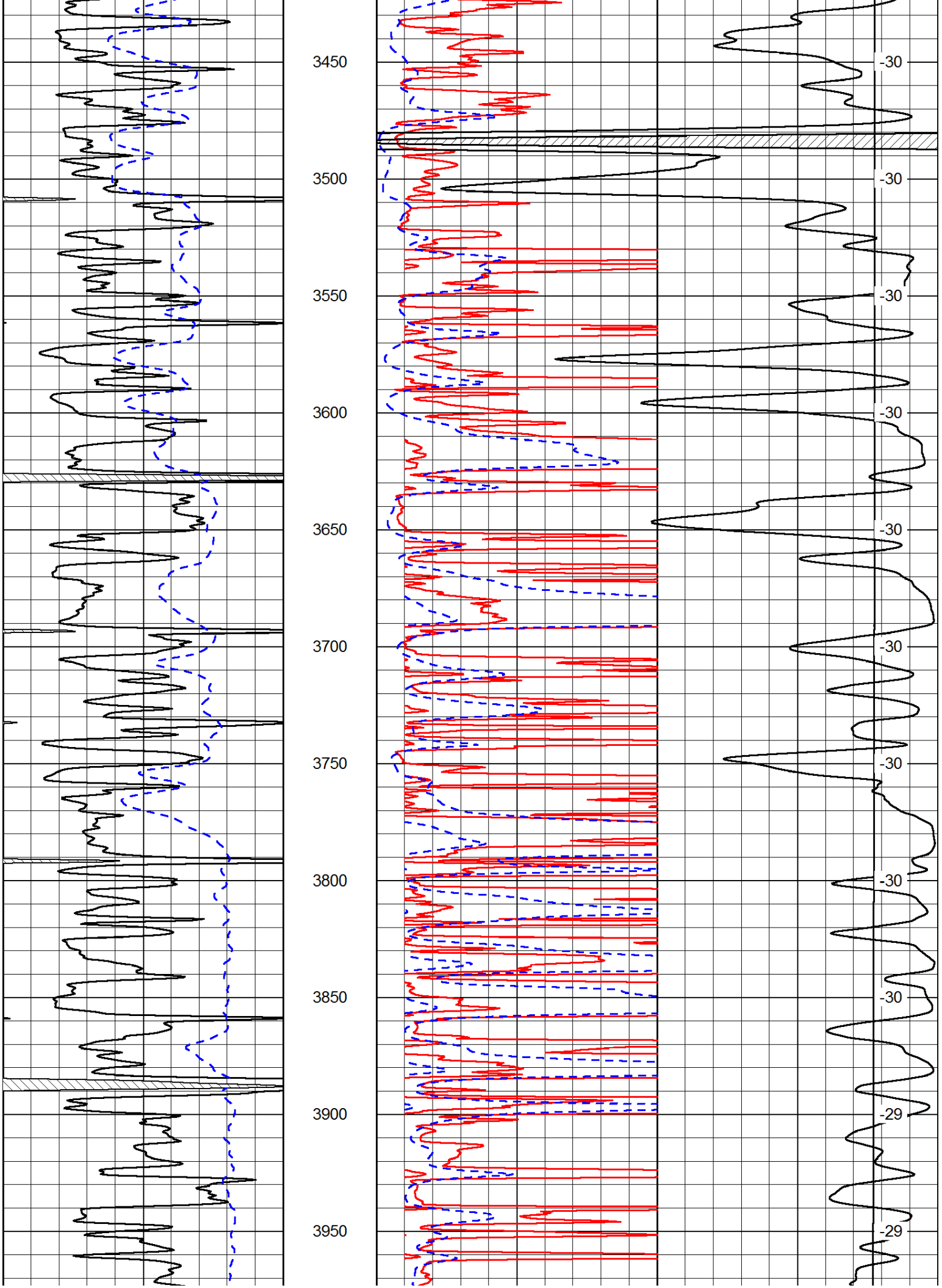

700
750
800
850
900
950
1000
1050
1100
1150
1200
-70
-70
-69
-70
-70
-70
-70
-68
-68
-68
-68

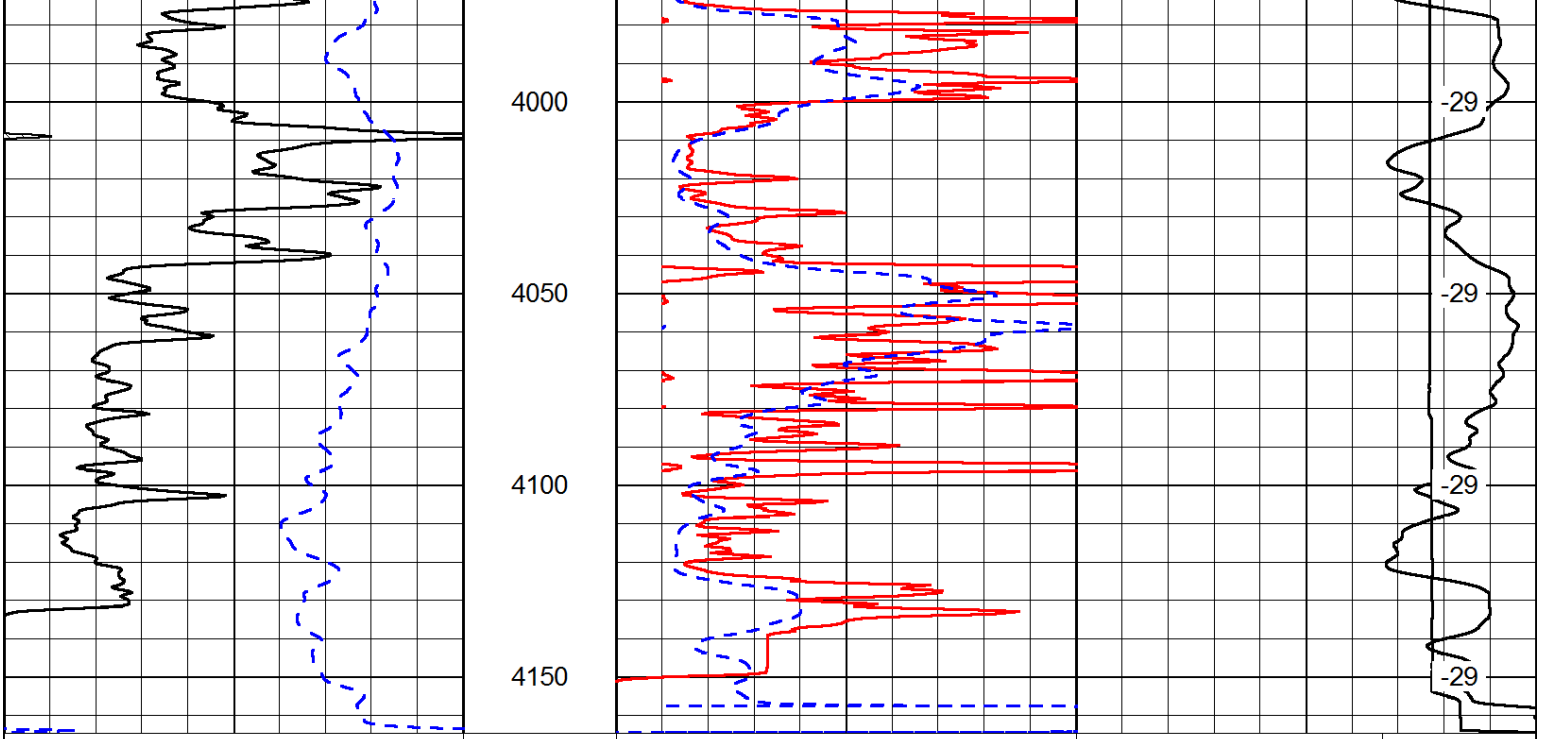

1250
1300
1350
1400
1450
1500
1550
1600
1650
1700
1750
-68
-67
-68
-68
-68
-67
-68
-68
-66
-66
-66


1800
1850
1900
1950
2000
2050
2100
2150
2200
2250
2300
-66
-66
-66
-66
-66
-66
-66
-66
-64
-64

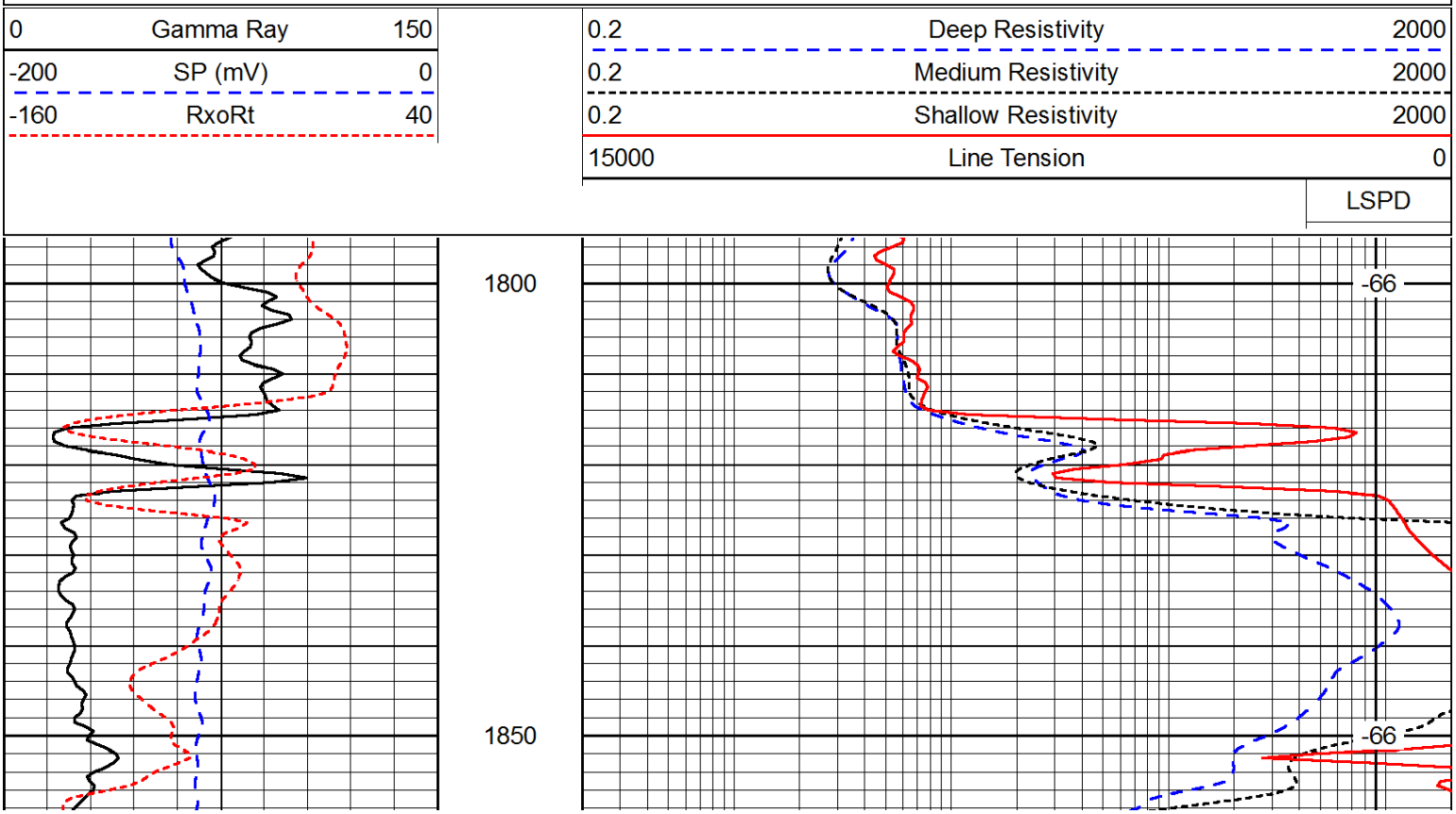

2350
2400
2450
2500
2550
2600
2650
2700
2750
2800
2850
-64
-64
-64
-64
-64
-64
-64
-64
-62
-63

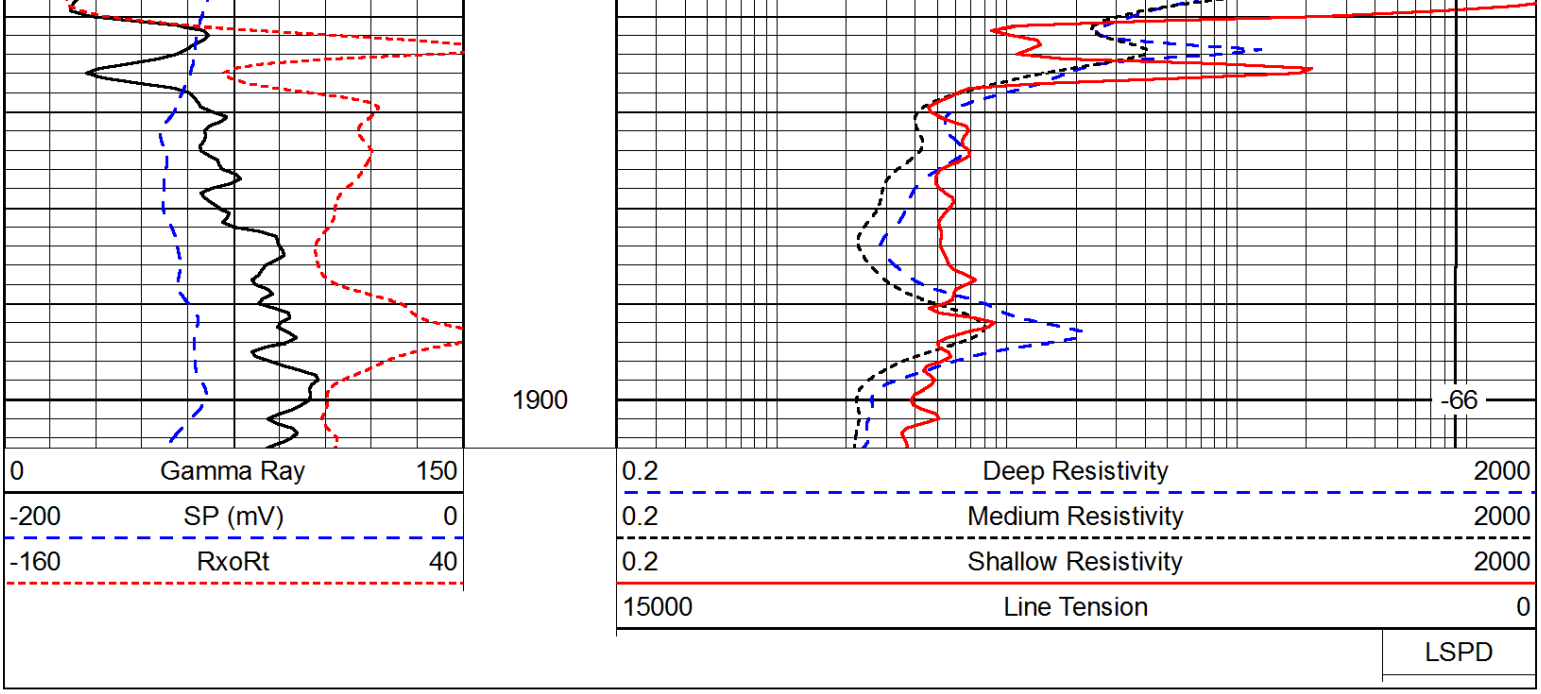

2900
2950
3000
3050
3100
3150
3200
3250
3300
3350
3400
-58
-58
-58
-58
-58
-54
-54
-47
-31
-30
-30


3450
3500
3550
3600
3650
3700
3750
3800
3850
3900
3950
-30
-30
-30
-30
-30
-30
-30
-30
-29
-29

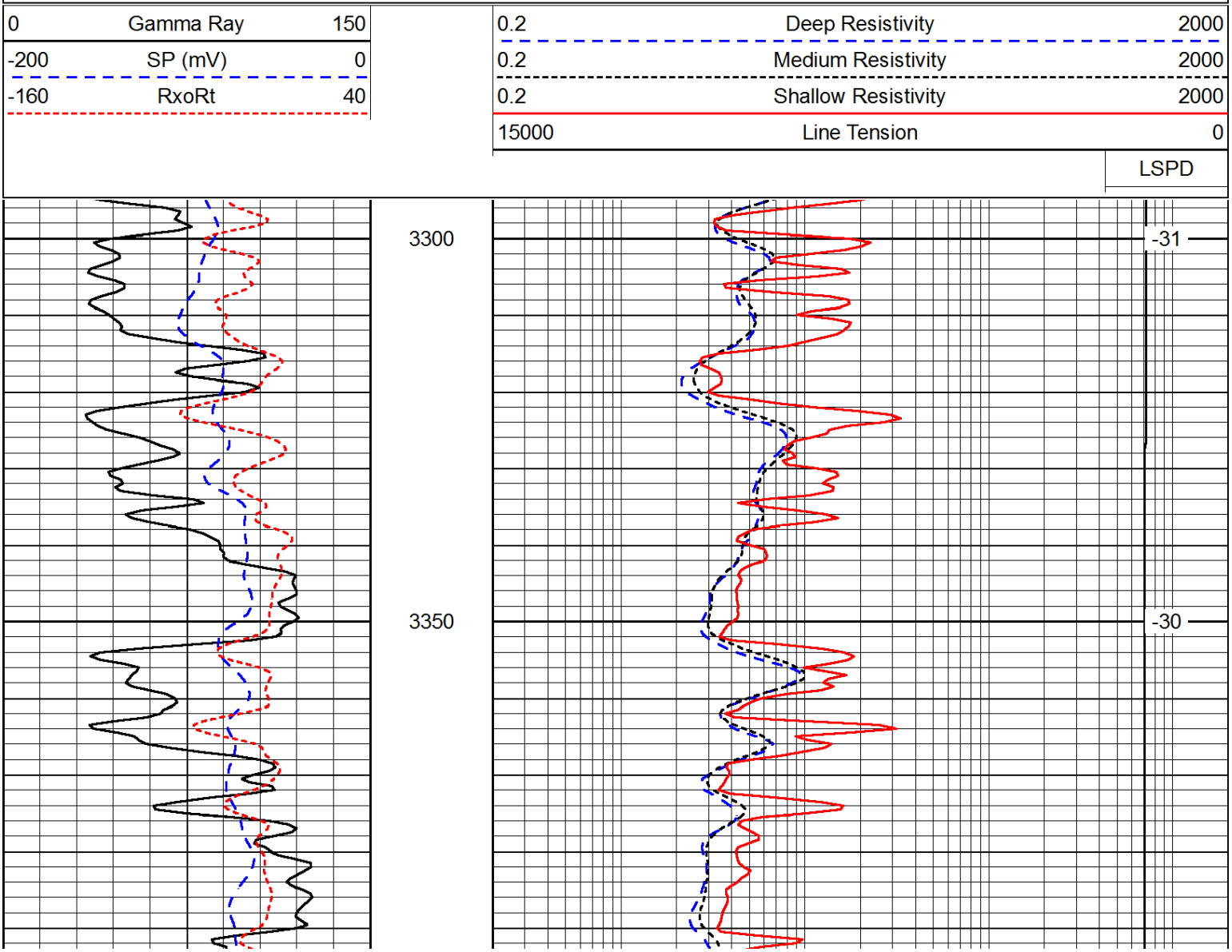


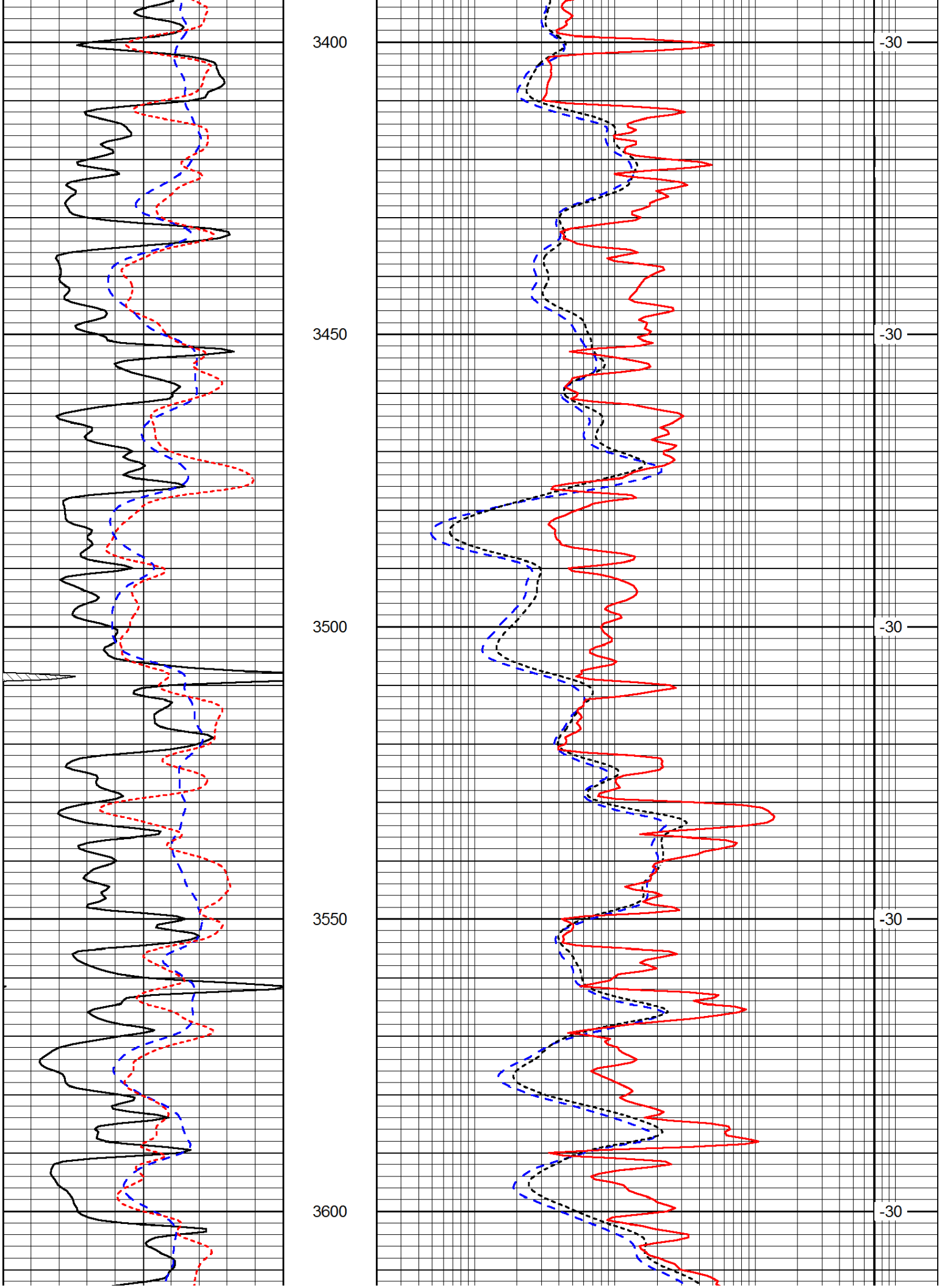
Database File: c:\warrior\data\h&c_north fork farms #36-1\h&c_northforkfarms_36_1hd.db
Dataset Pathname: DIL/hcstk
Presentation Format: dil
Dataset Creation: Sun Nov 16 03:39:25 2014
Charted by: Depth in Feet scaled 1:240

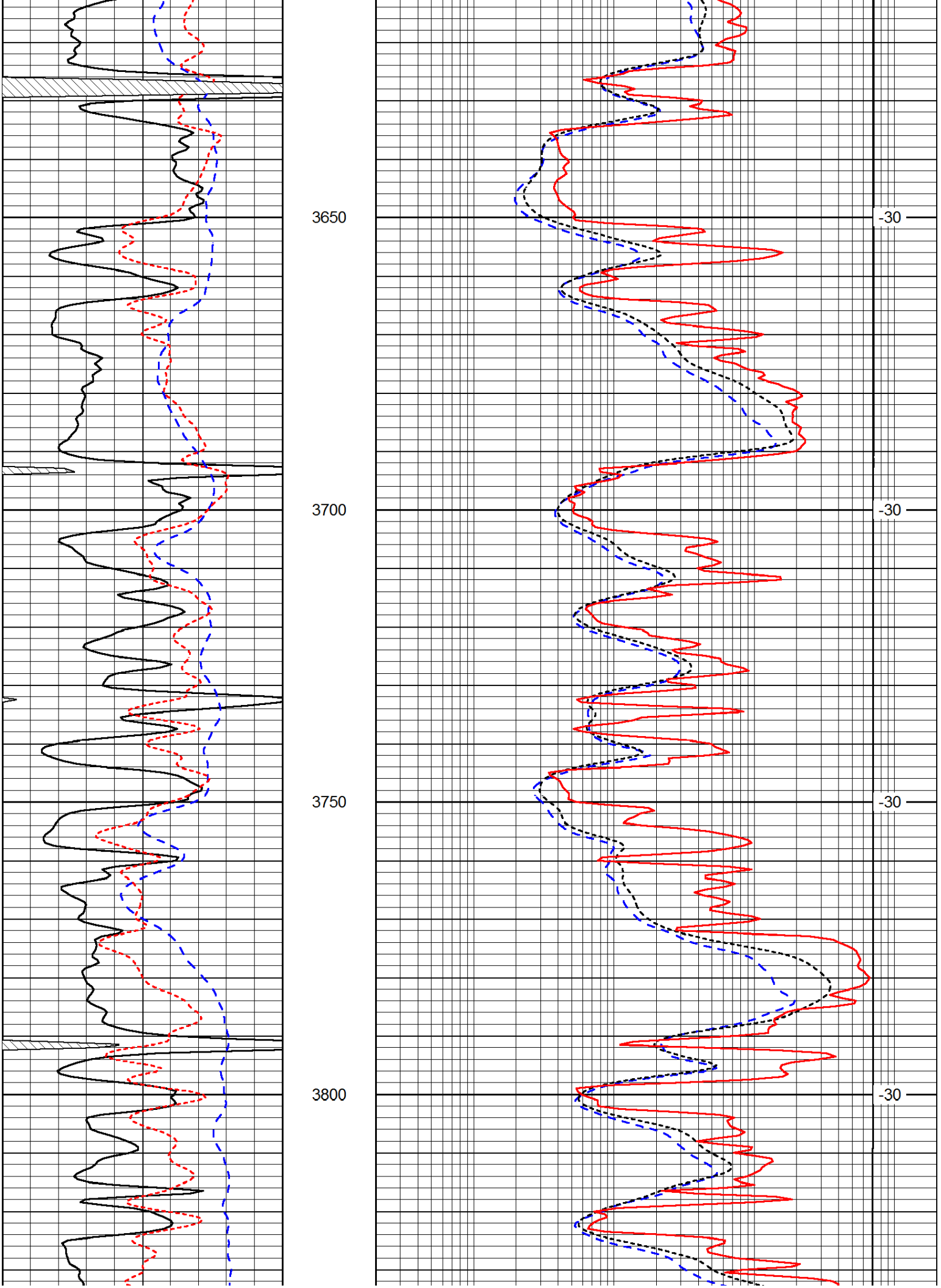


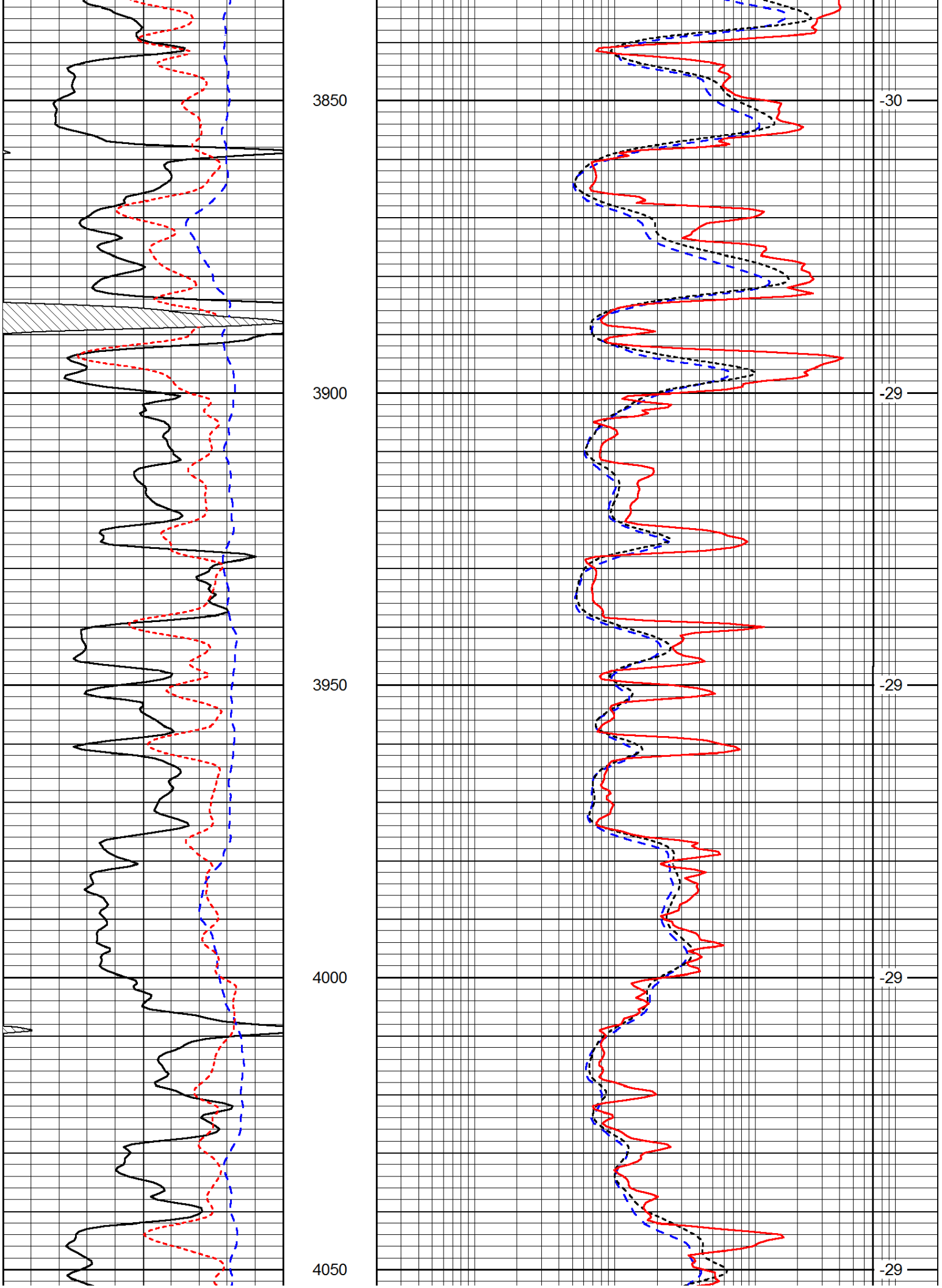


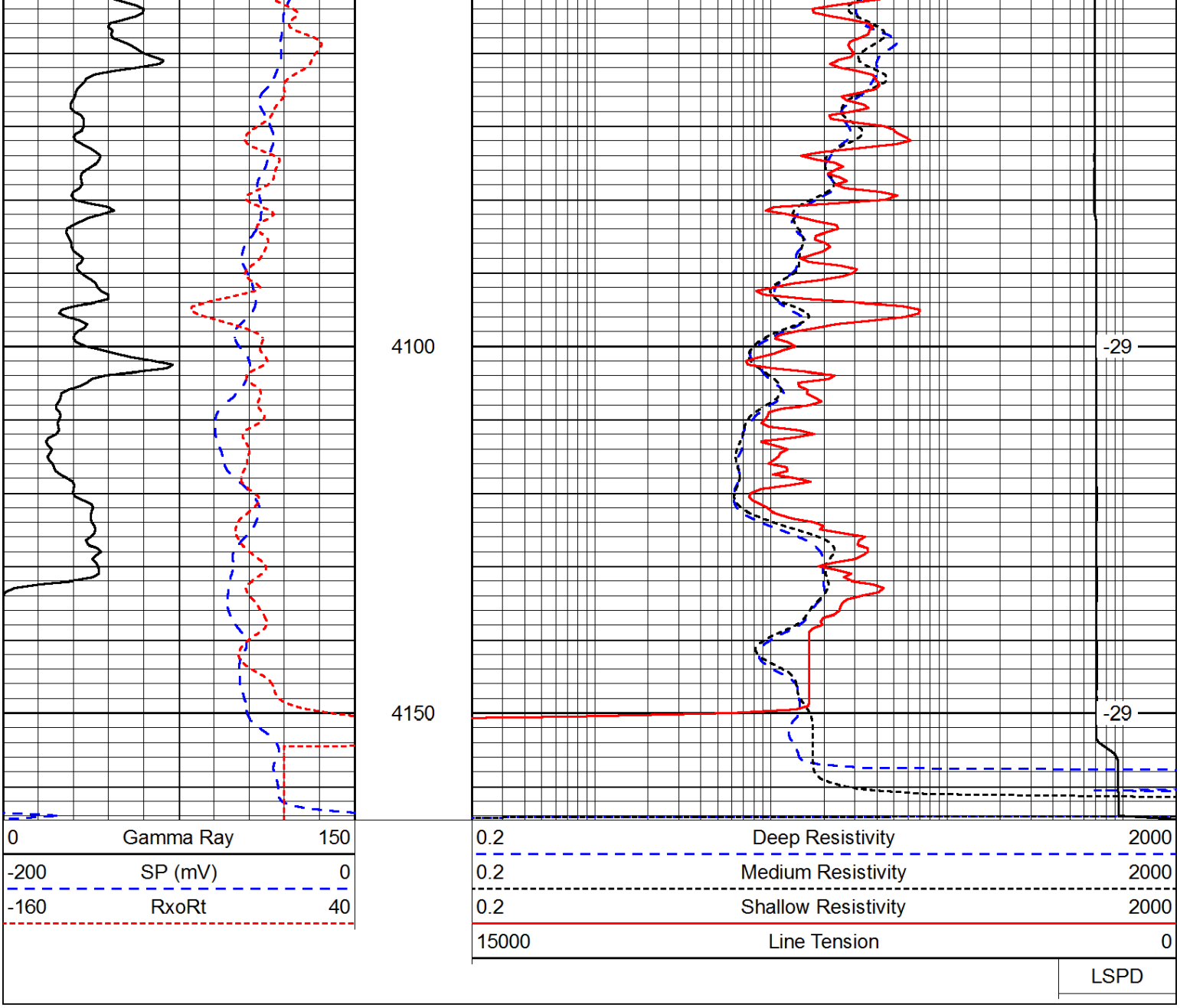
Database File: c:\warrior\data\h&c_north fork farms #36-1\h&c_northforkfarms_36_1hd.db
Dataset Pathname: DIL/hcstk
Presentation Format: dil
Dataset Creation: Sun Nov 16 03:39:25 2014
Charted by: Depth in Feet scaled 1:240




3400
3450
3500
3550
3600
-30
-30
-30
-30


3650
3700
3750
3800
-30
-30
-30
-30


3850
3900
3950
4000
4050
-30
-29
-29
-29
-29


4100
4150
-29
-29
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