PIONEER

Pioneer Energy Services

Dual Induction Log

Company	Anderson Exploration, LLC.
Well	Knoll 26-1
Field	Ambrose Southeast
County	Graham State Kansas
API No.	15-065-24,052-00-00
Location	2310' FNL &1950' FWL
Sec: 26	Twp: 10s Rge: 25w
Permanent Datum	Ground Level Elevation 2513
Log Measured From	Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing
Other Services	CNL/CDL MEL
Elevation	K.B. 2518 D.F. G.L. 2513

Date	10/10/2014			
Run Number	One			
Depth Driller	4350			
Depth Logger	4355			
Bottom Logged Interval	4354			
Top Log Interval	200			
Casing Driller	8.625 @ 213			
Casing Logger	212			
Bit Size	7.875			
Type Fluid in Hole	Chemical			
Salinity,ppm CL	3100			
Density / Viscosity	9.6 | 47			
pH / Fluid Loss	8.0 | 10.0			
Source of Sample	Flowline			
Rm @ Meas. Temp	1.35 @ 68			
Rmf @ Meas. Temp	1.01 @ 68			
Rmc @ Meas. Temp	1.82 @ 68			
Source of Rmf / Rmc	Charts			
Rm @ BHT	.77 @ 120			
Operating Rig Time	4 Hours			
Max. Rec. Temp. F	120			
Equipment Number	108			
Location	Hays			
Recorded By	D. Fischer	J. Long		
Witnessed By	Dean Anderson			

<<< Fold Here >>>

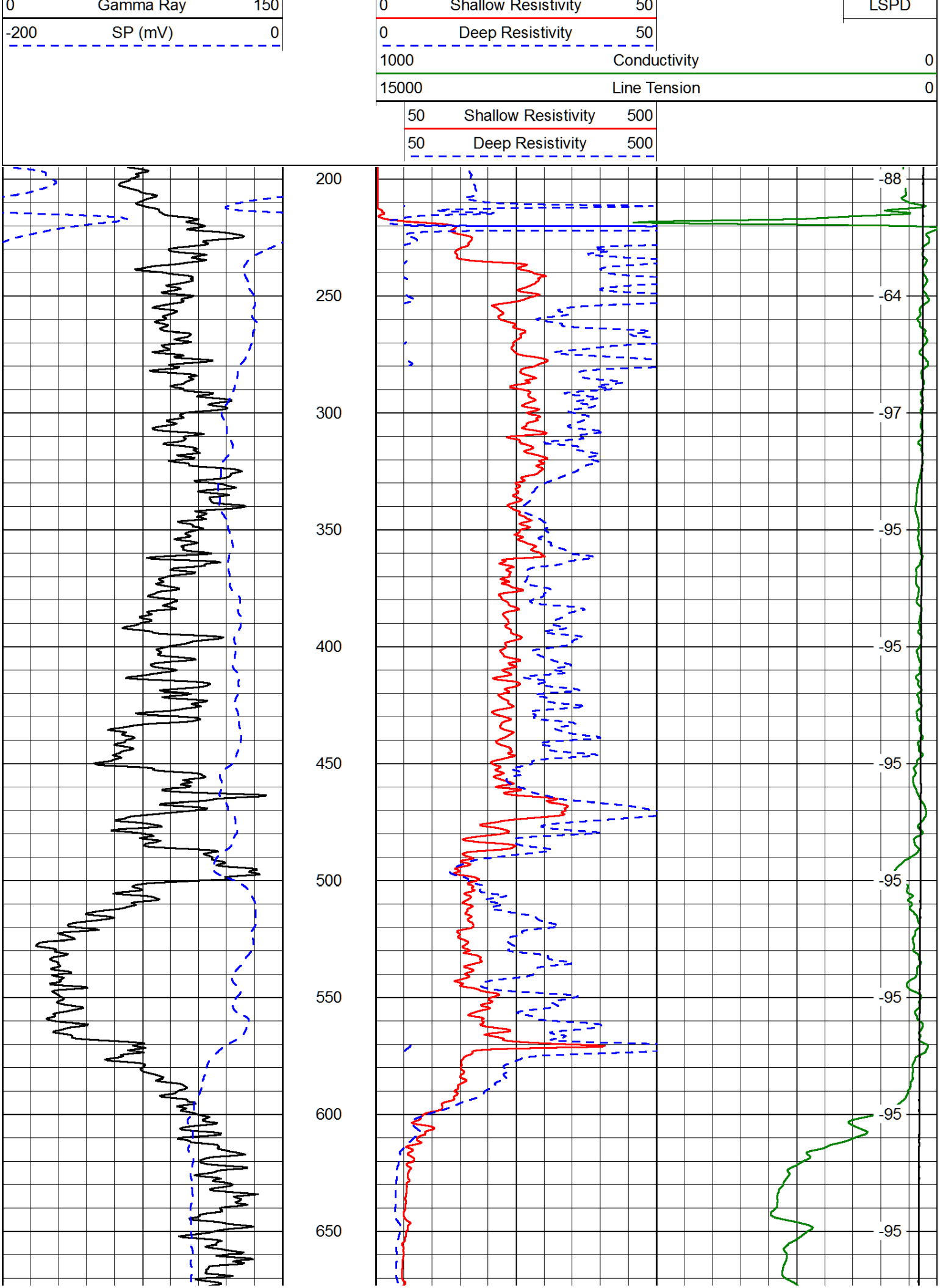
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

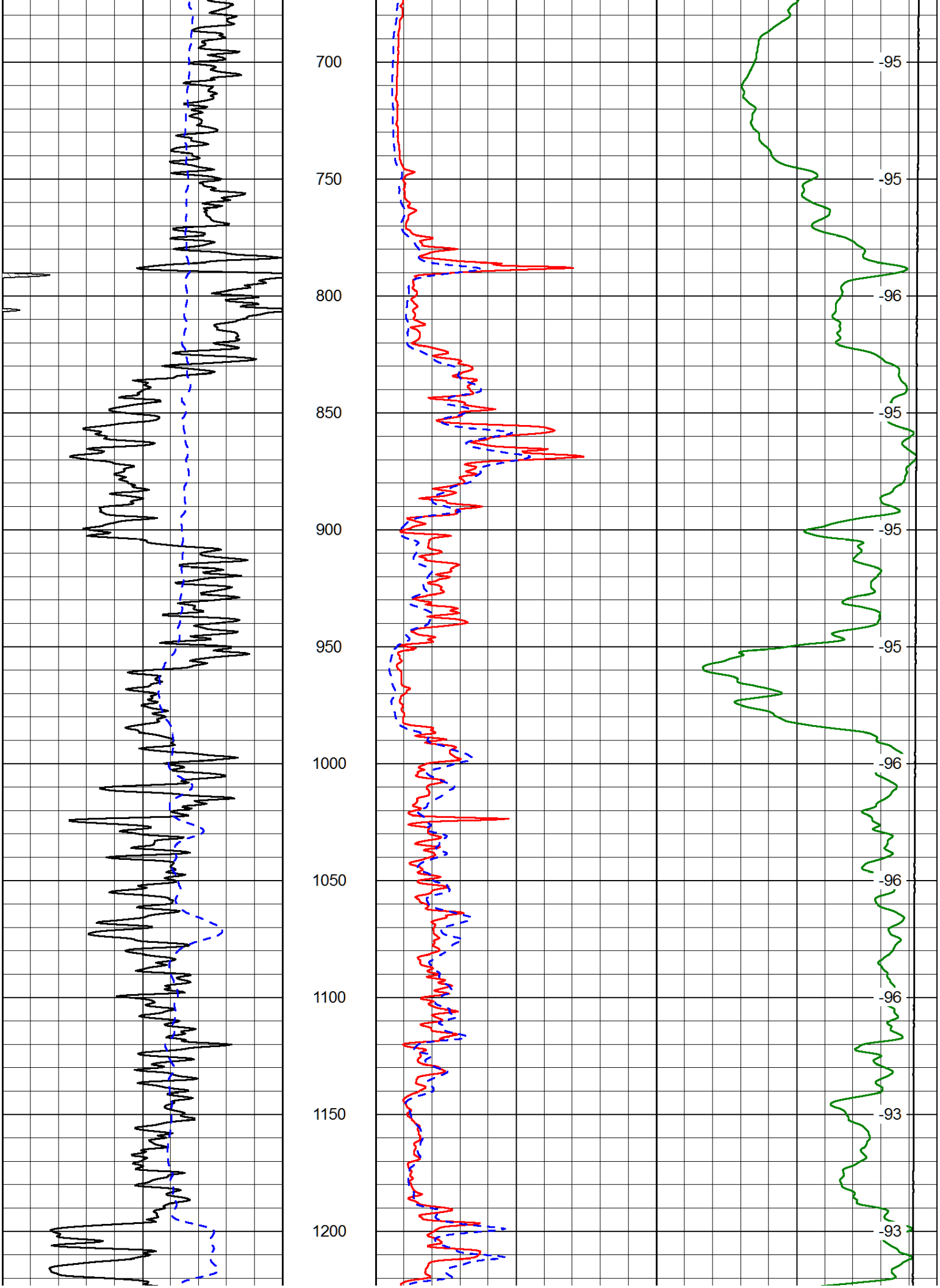
Comments

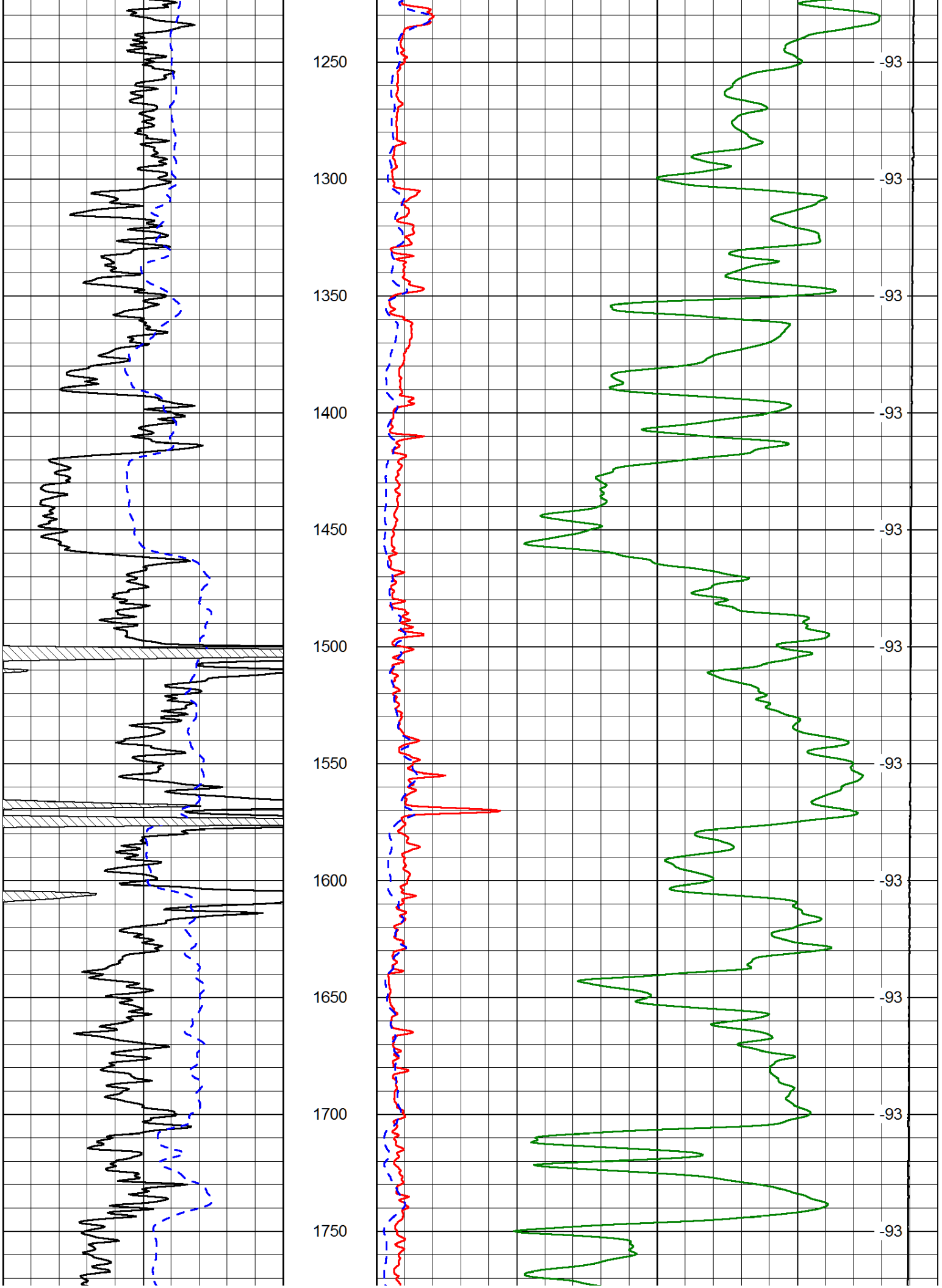
Thank you for using Log-Tech, Inc.
(785) 625-3858

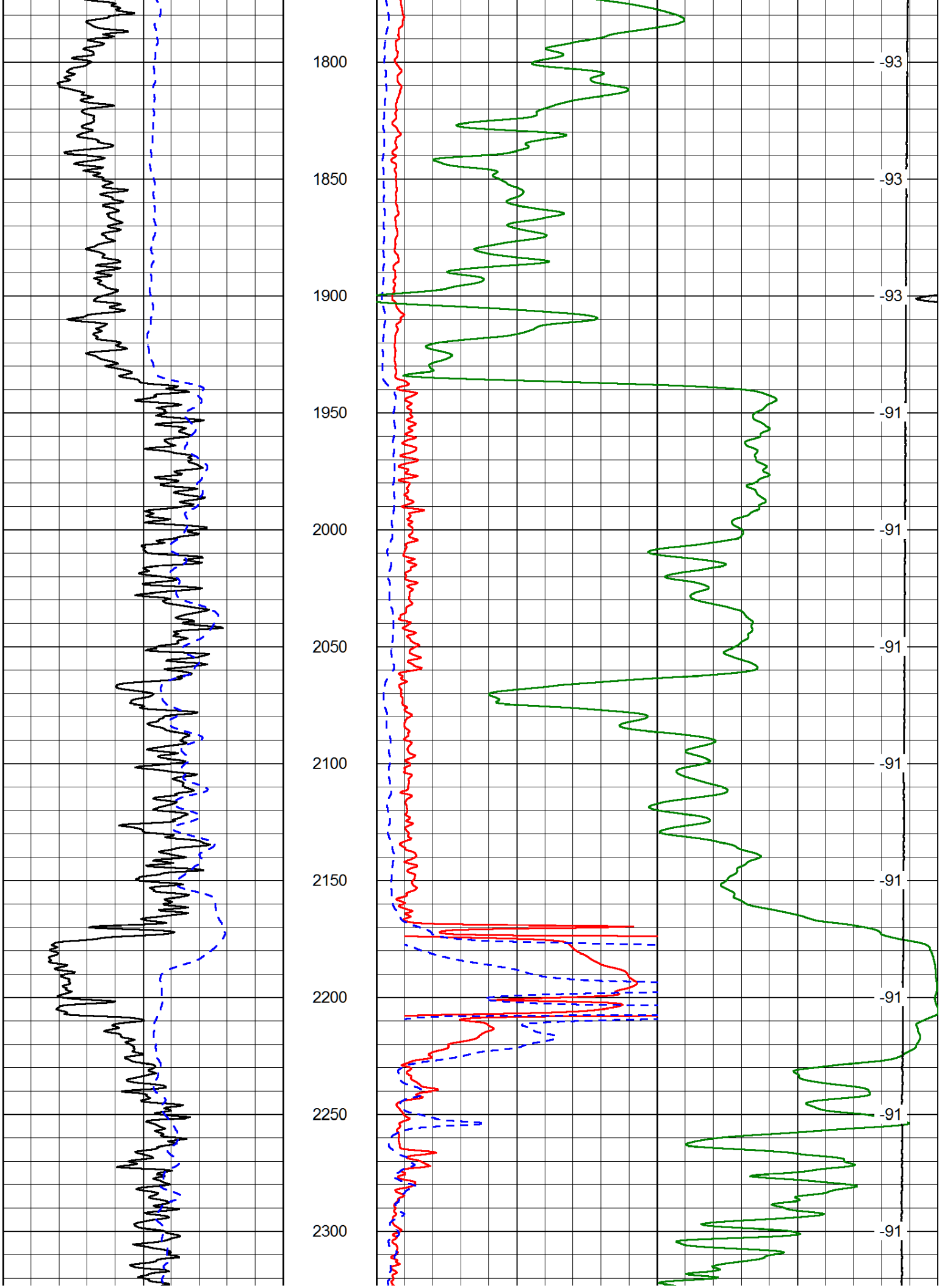
St. Peter Ks., 2 1/2 South, East Into.

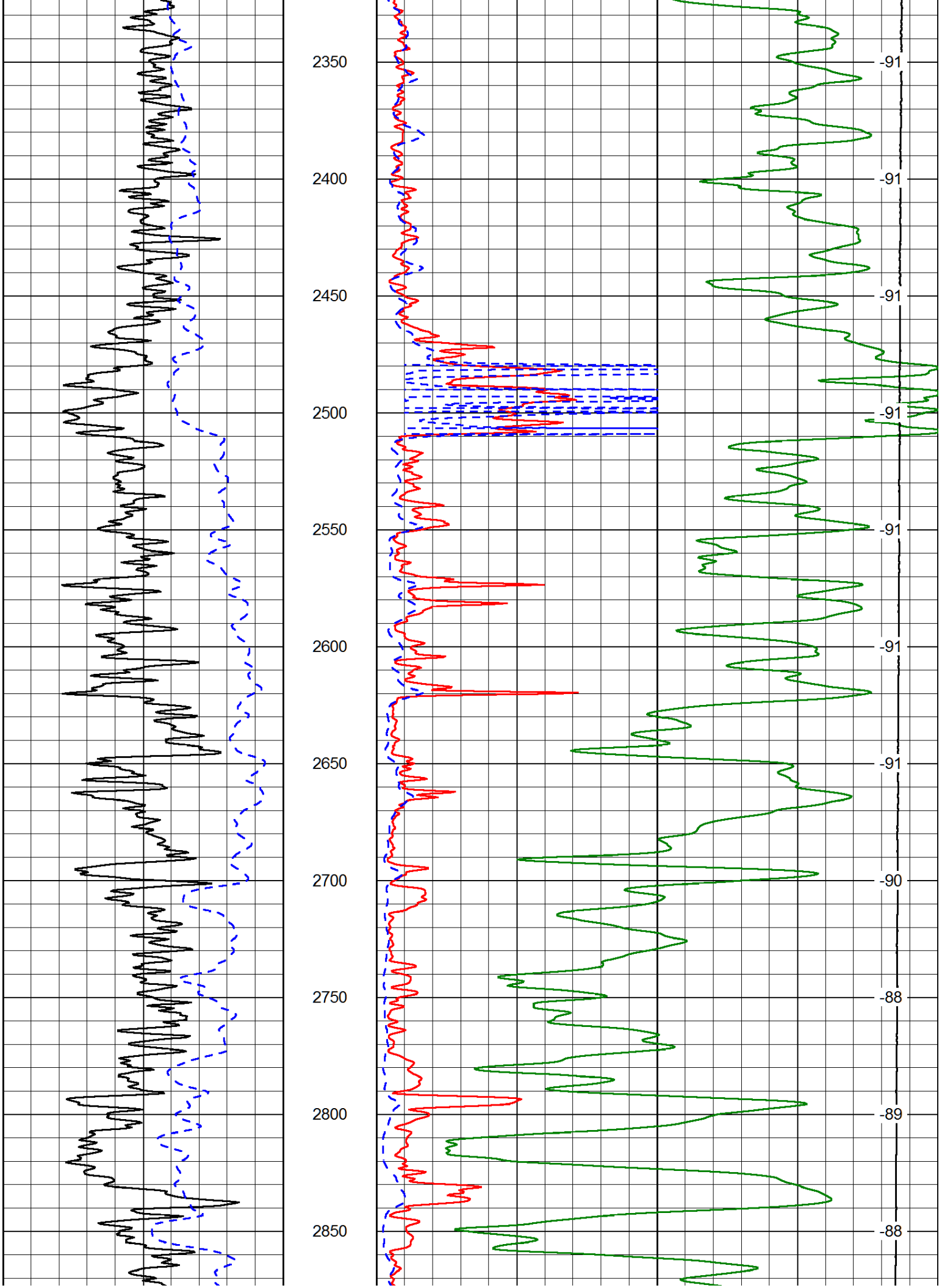
Database File:	anderson_exploration_knoll_26-1hd.db
Dataset Pathname:	DIL/andstck
Presentation Format:	dil2in
Dataset Creation:	Fri Oct 10 20:24:21 2014
Charted by:	Depth in Feet scaled 1:600

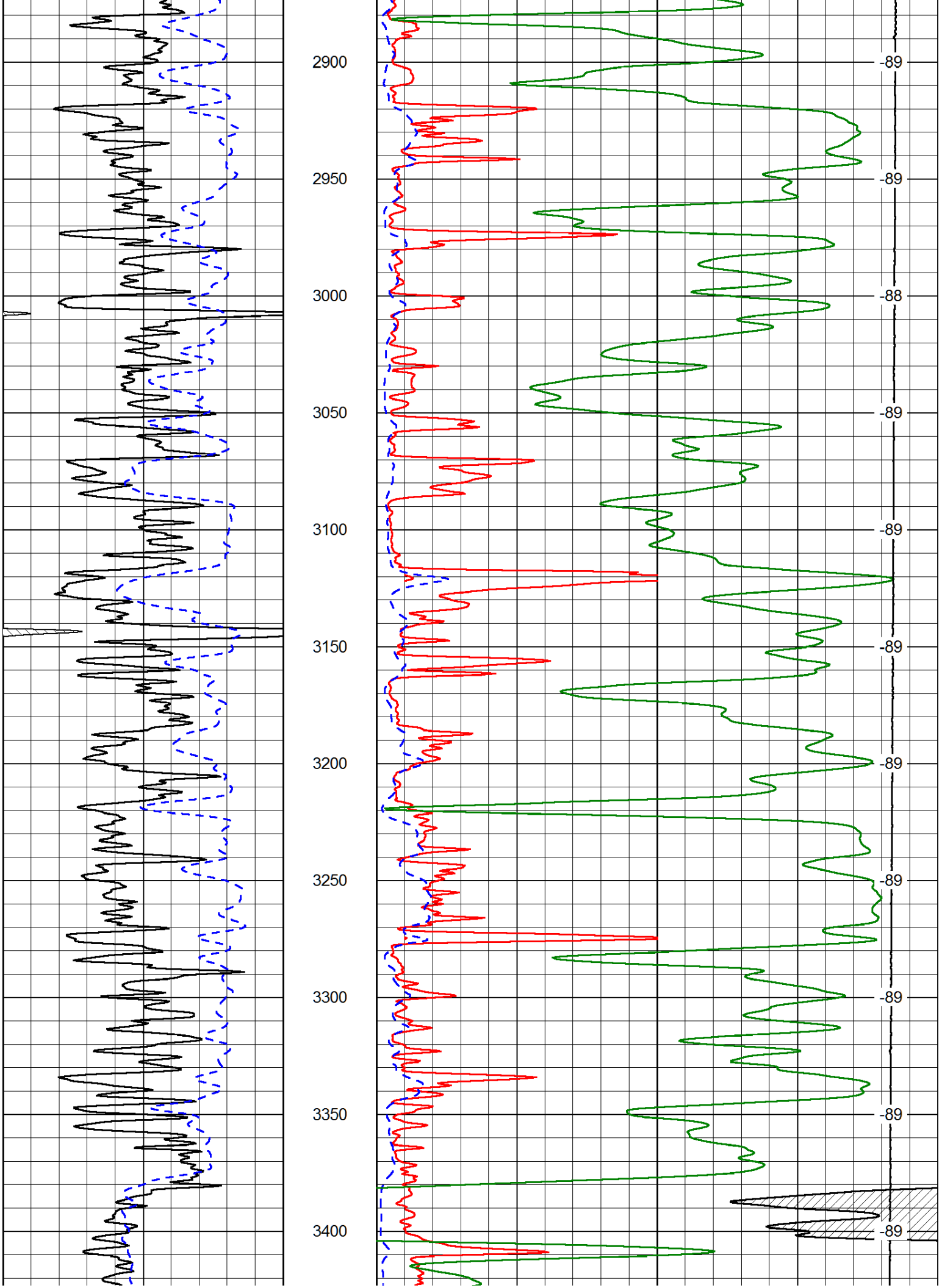

0 Gamma Ray 150
-200 SP (mV) 0
0 Shallow Resistivity 50
0 Deep Resistivity 50
LSPD
1000 Conductivity 0
15000 Line Tension 0
50 Shallow Resistivity 500
50 Deep Resistivity 500
200
250
300
350
400
450
500
550
600
650
-88
-64
-97
-95
-95
-95
-95
-95
-95

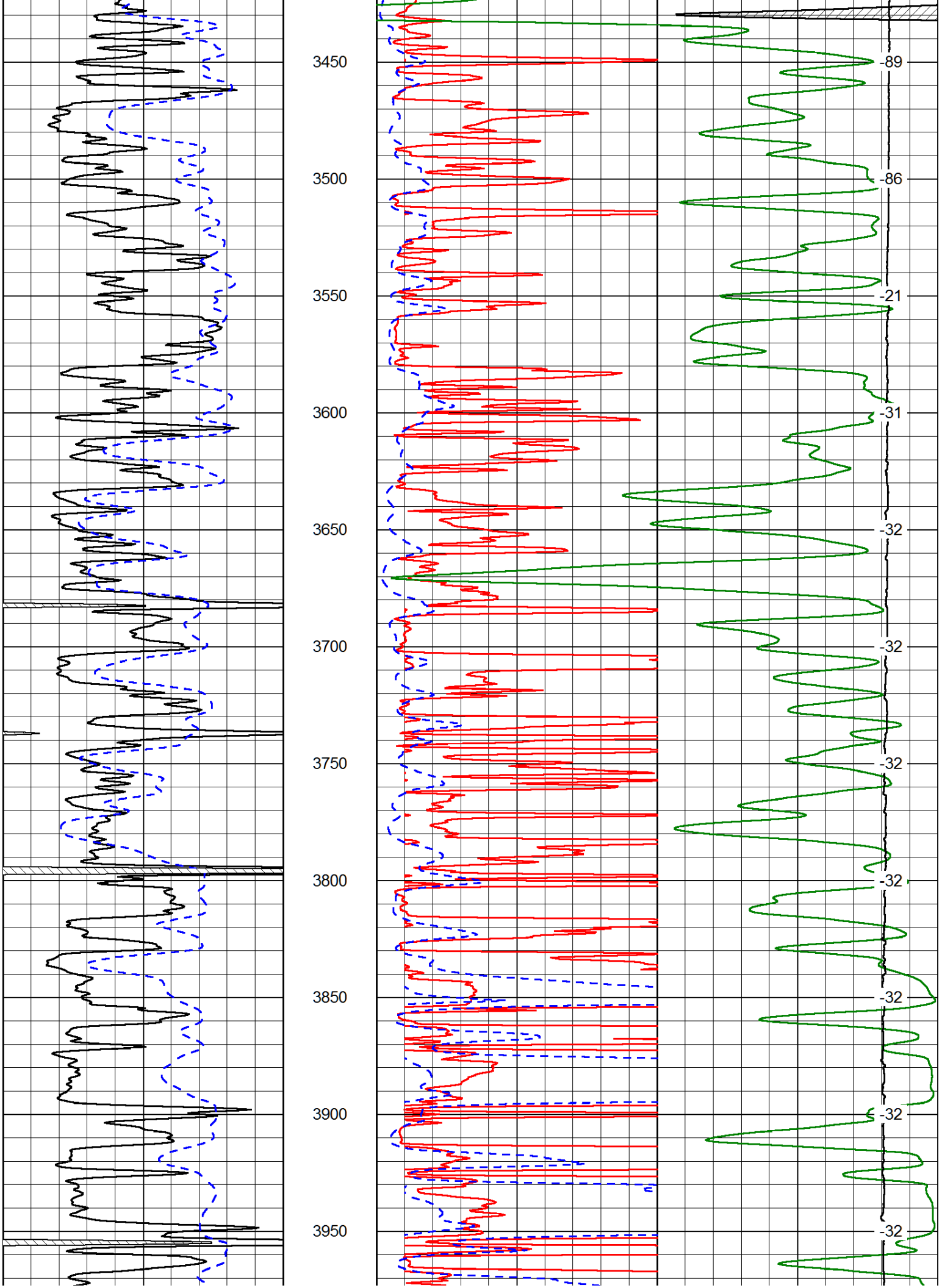

700
750
800
850
900
950
1000
1050
1100
1150
1200
-95
-95
-96
-95
-95
-96
-96
-96
-93
-93

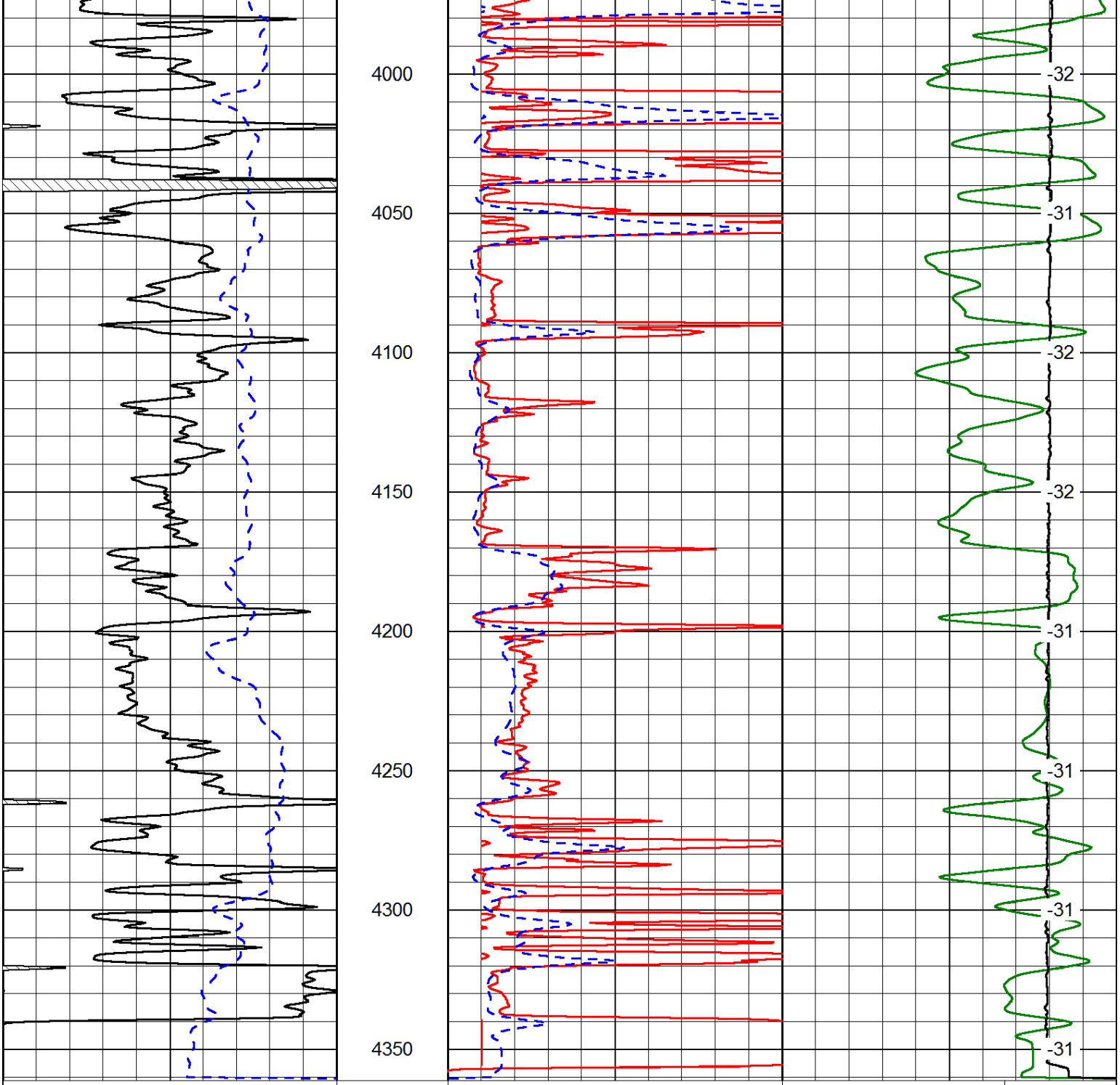

1250
1300
1350
1400
1450
1500
1550
1600
1650
1700
1750
-93
-93
-93
-93
-93
-93
-93
-93
-93


1800
1850
1900
1950
2000
2050
2100
2150
2200
2250
2300
-93
-93
-93
-91
-91
-91
-91
-91
-91
-91
-91


2350
2400
2450
2500
2550
2600
2650
2700
2750
2800
2850
-91
-91
-91
-91
-91
-91
-91
-90
-88
-89
-88


2900
2950
3000
3050
3100
3150
3200
3250
3300
3350
3400
-89
-89
-88
-89
-89
-89
-89
-89
-89
-89


3450
3500
3550
3600
3650
3700
3750
3800
3850
3900
3950
-89
-86
-21
-31
-32
-32
-32
-32
-32
-32
-32



0	Gamma Ray	150
-200	SP (mV)	0

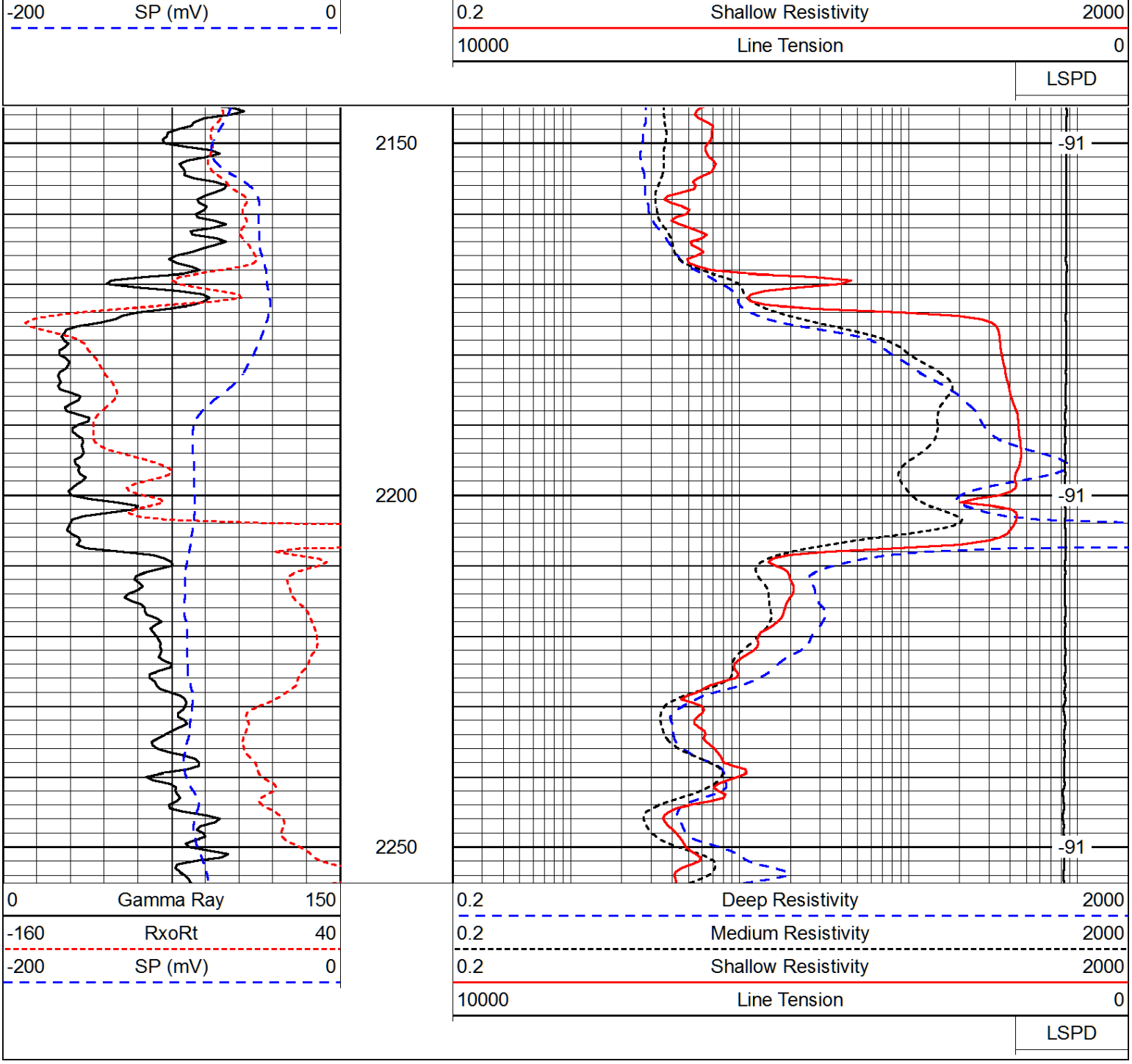
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

LSPD

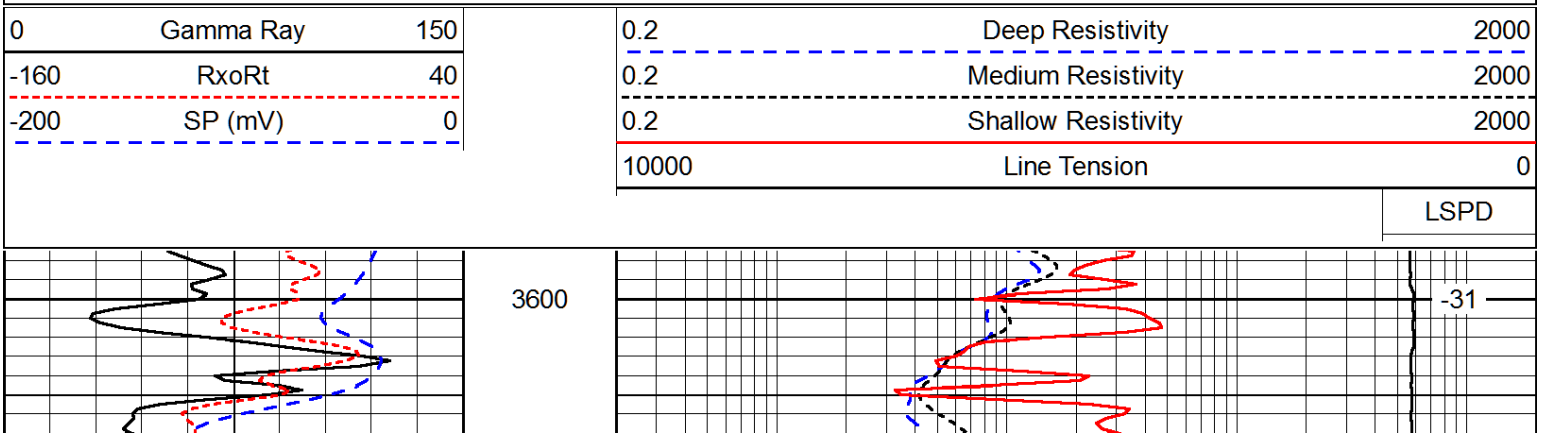
Database File:	anderson_exploration_knoll_26-1hd.db
Dataset Pathname:	DIL/andstck
Presentation Format:	dil
Dataset Creation:	Fri Oct 10 20:24:21 2014
Charted by:	Depth in Feet scaled 1:240

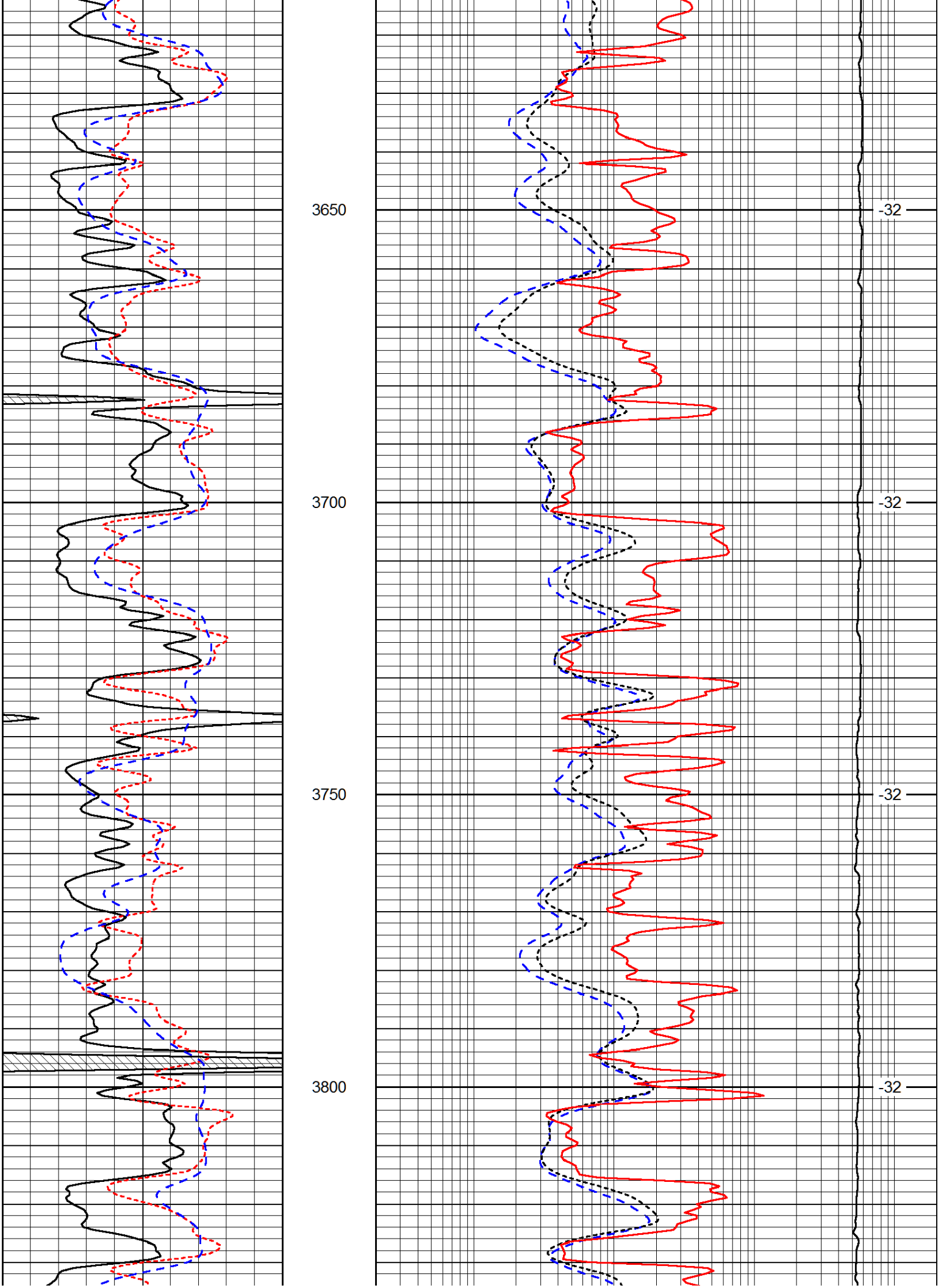
0	Gamma Ray	150
-160	RxoRt	40

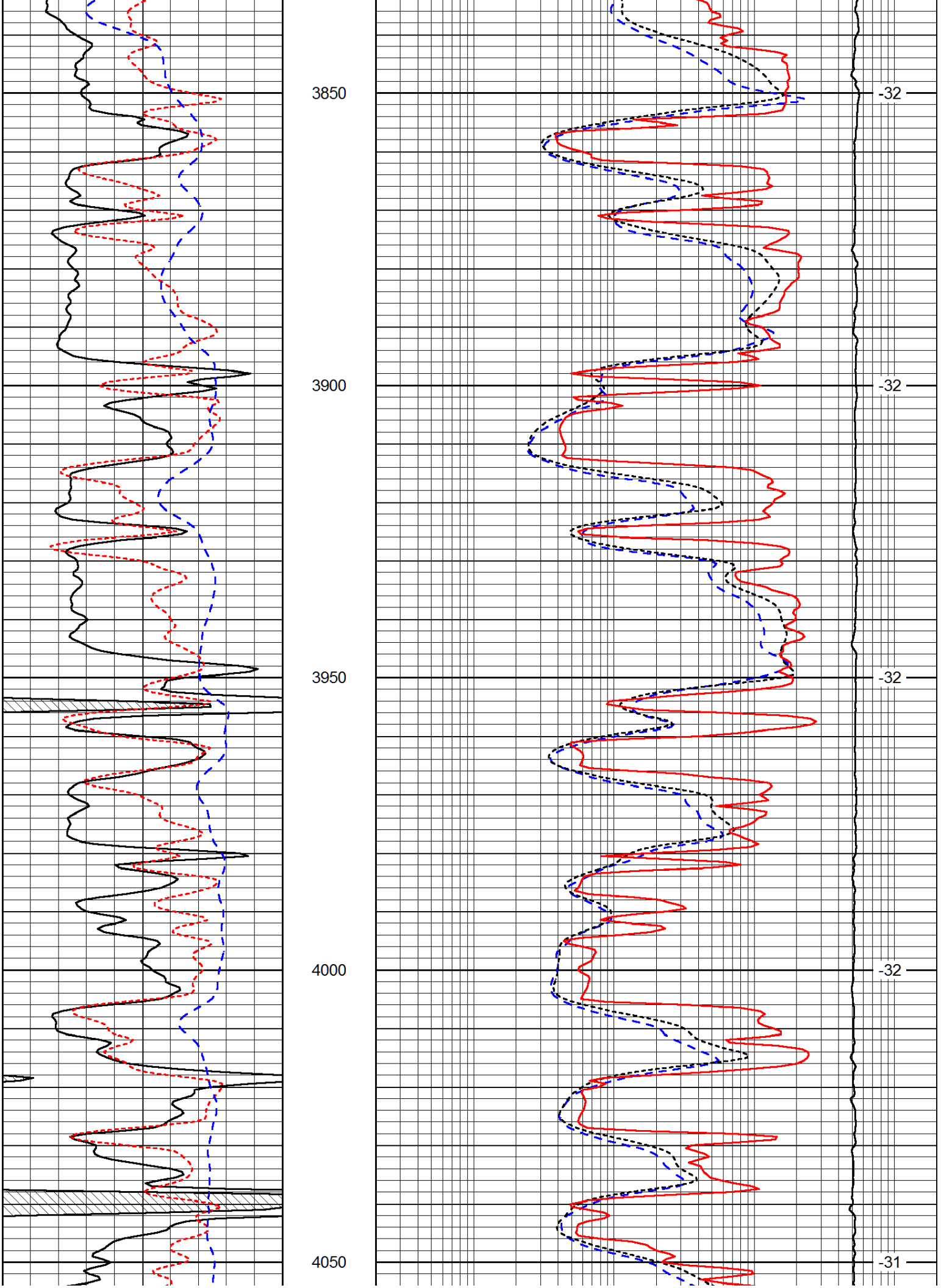
0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000

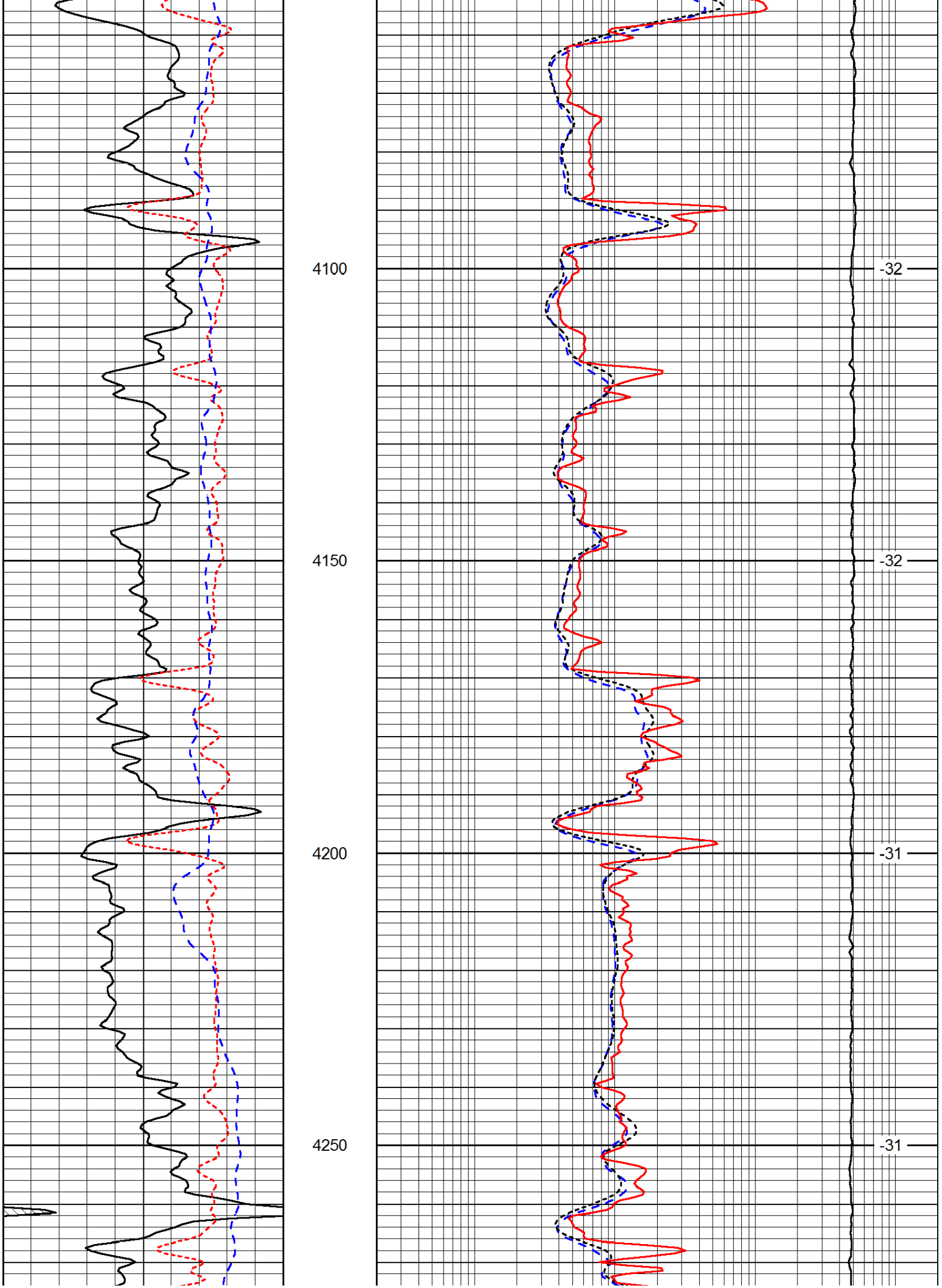


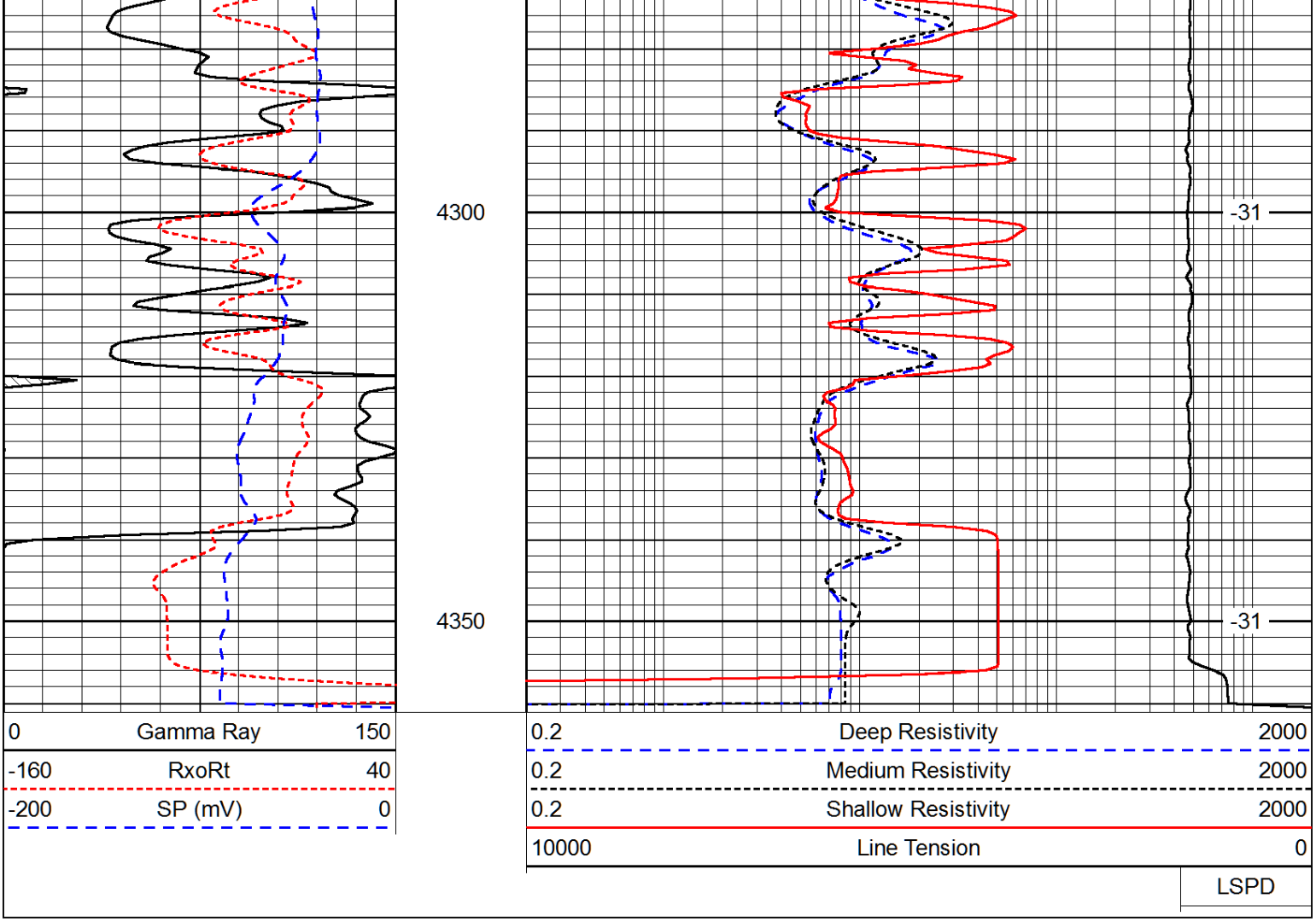
Database File: anderson_exploration_knoll_26-1hd.db
Dataset Pathname: DIL/andstck
Presentation Format: dil
Dataset Creation: Fri Oct 10 20:24:21 2014
Charted by: Depth in Feet scaled 1:240




3650
3700
3750
3800
-32
-32
-32


3850
3900
3950
4000
4050
-32
-32
-32
-32
-31


4100
4150
4200
4250
-32
-32
-31
-31



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

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

LSPD