PIONEER

Pioneer Energy Services

Dual Induction Log

API No. 15-051-26,738-00-00

Company TDI

Well George No. 2

Field Unnamed

County Ellis State Kansas

Location 1500' FNL & 330' FWL

Sec: 18 Twp: 12s Rge: 18w

Other Services
CNL/CDL
MEL

Elevation
K.B. 2185
D.F.
G.L. 2175

Permanent Datum	Ground Level	Elevation 2175
Log Measured From	Kelly Bushing	10 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	
Date	10/22/2014	
Run Number	One	
Depth Driller	3900	
Depth Logger	3901	
Bottom Logged Interval	3900	
Top Log Interval	200	
Casing Driller	8.625 @ 221	
Casing Logger	219	
Bit Size	7.875	
Type Fluid in Hole	Chemical	
Salinity,ppm CL	2600	
Density / Viscosity	9.4 | 57	
pH / Fluid Loss	10.0 | 8.0	
Source of Sample	Flowline	
Rm @ Meas. Temp	.75 @ 68	
Rmf @ Meas. Temp	.56 @ 68	
Rmc @ Meas. Temp	1.01 @ 68	
Source of Rmf / Rmc	Charts	
Rm @ BHT	.44 @ 115	
Operating Rig Time	4 Hours	
Max. Rec. Temp. F	115	
Equipment Number	108	
Location	Hays	
Recorded By	D. Fischer	J. Long
Witnessed By	Tom Denning	Herb Dienes

<<< Fold Here >>>

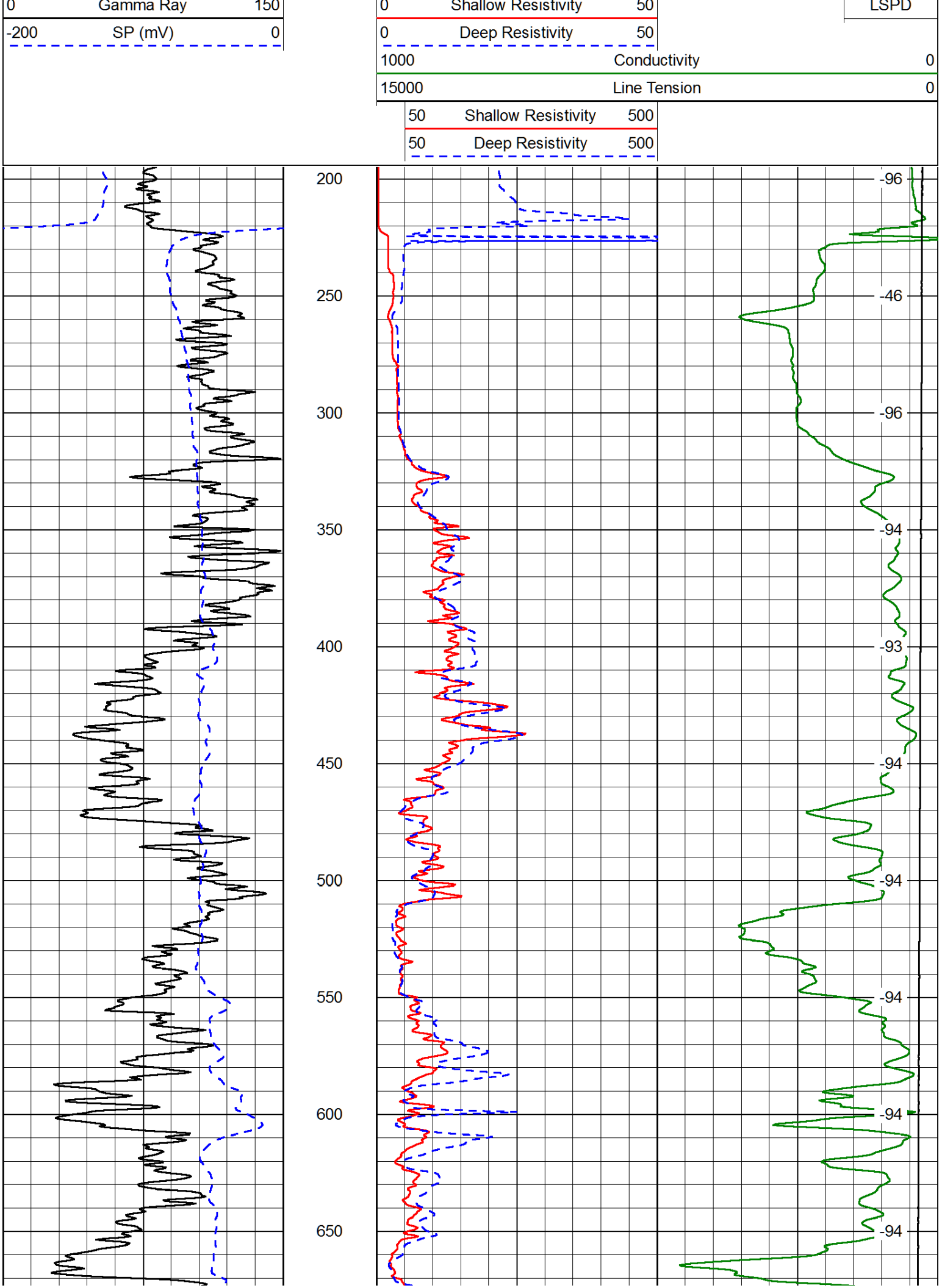
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

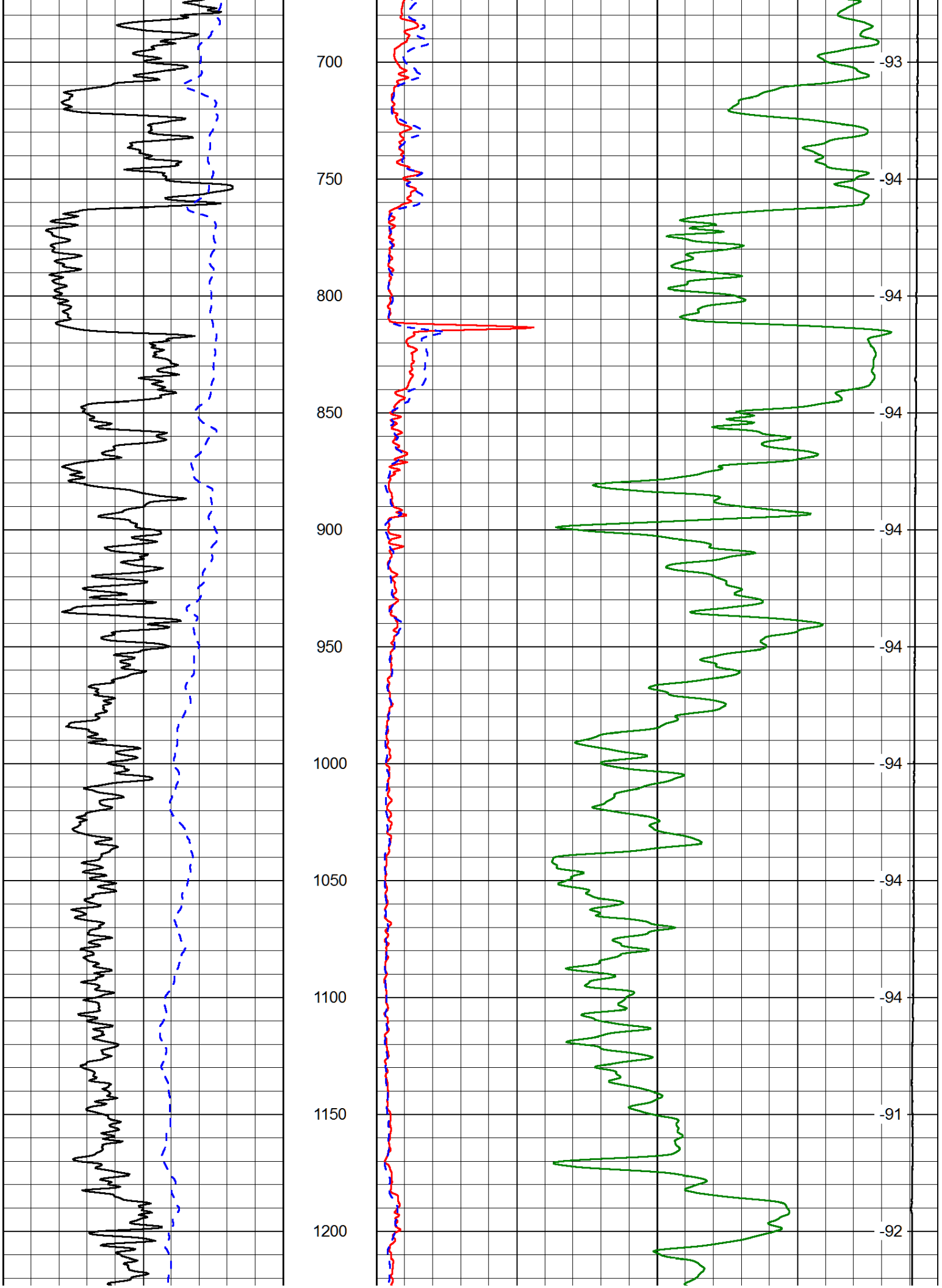
Comments

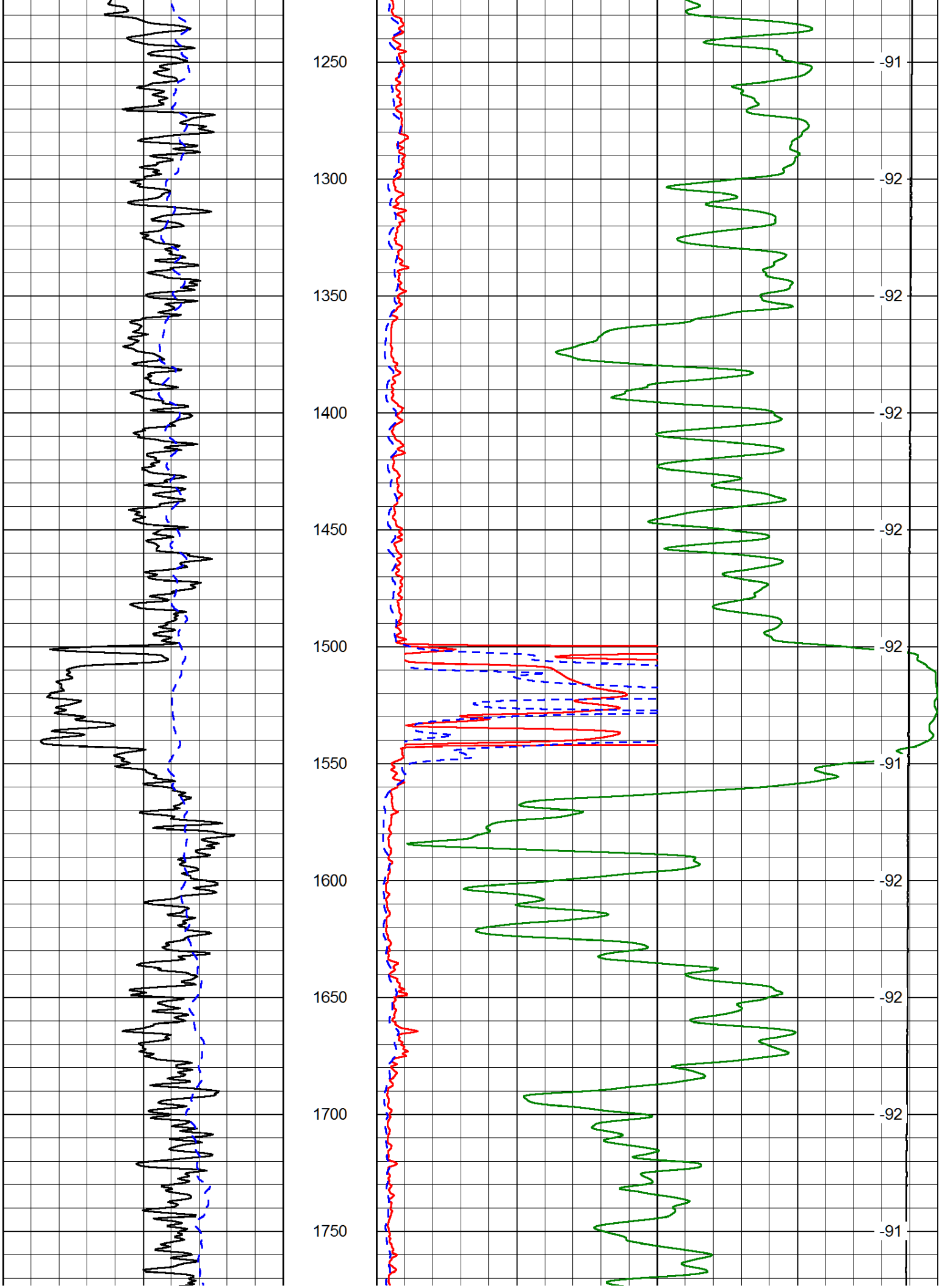
Thank you for using Log-Tech, Inc.
(785) 625-3858

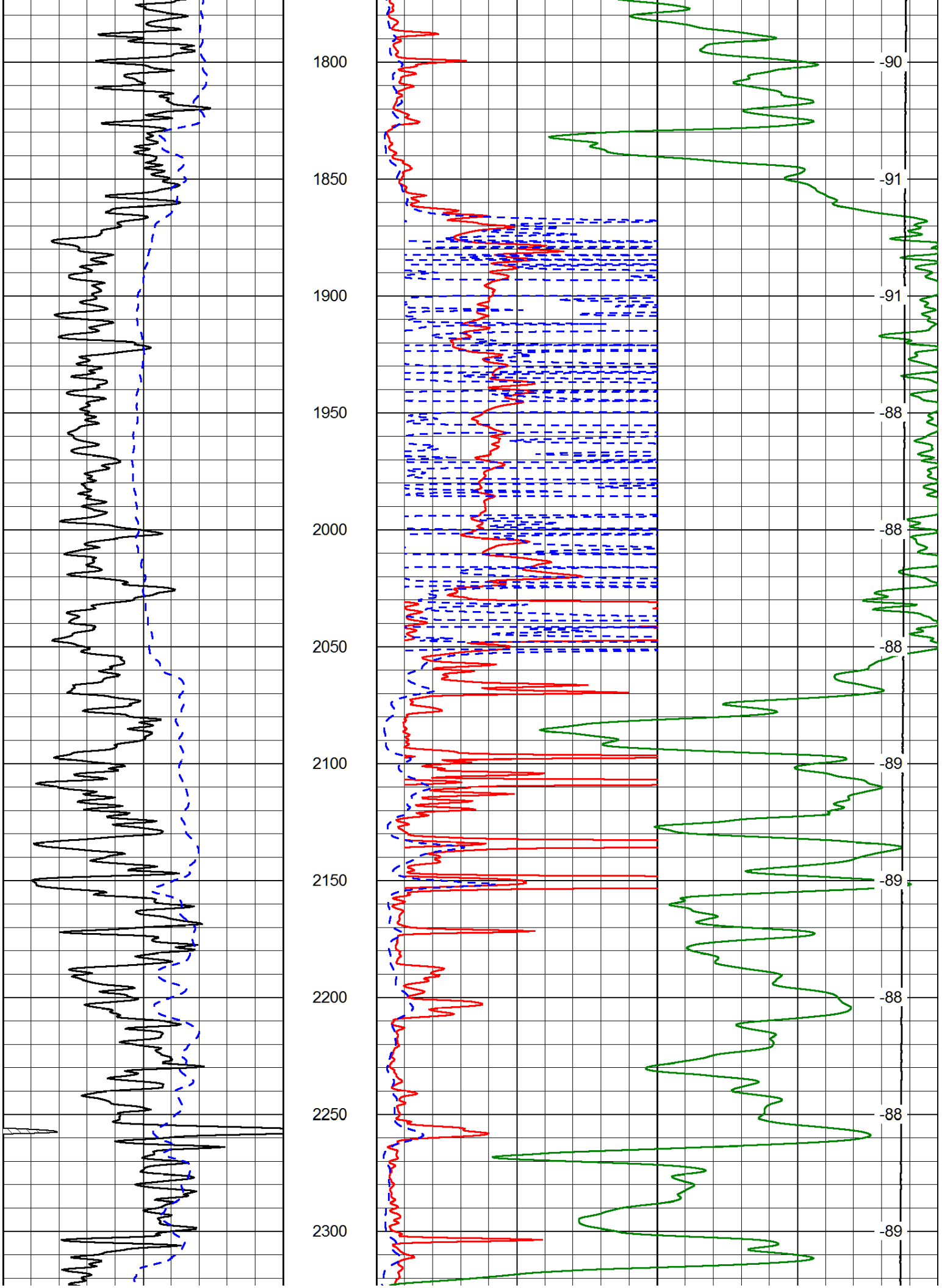
Hays Ks., North to Buckeye, 3 1/4 West, 1/4 North, East Into.

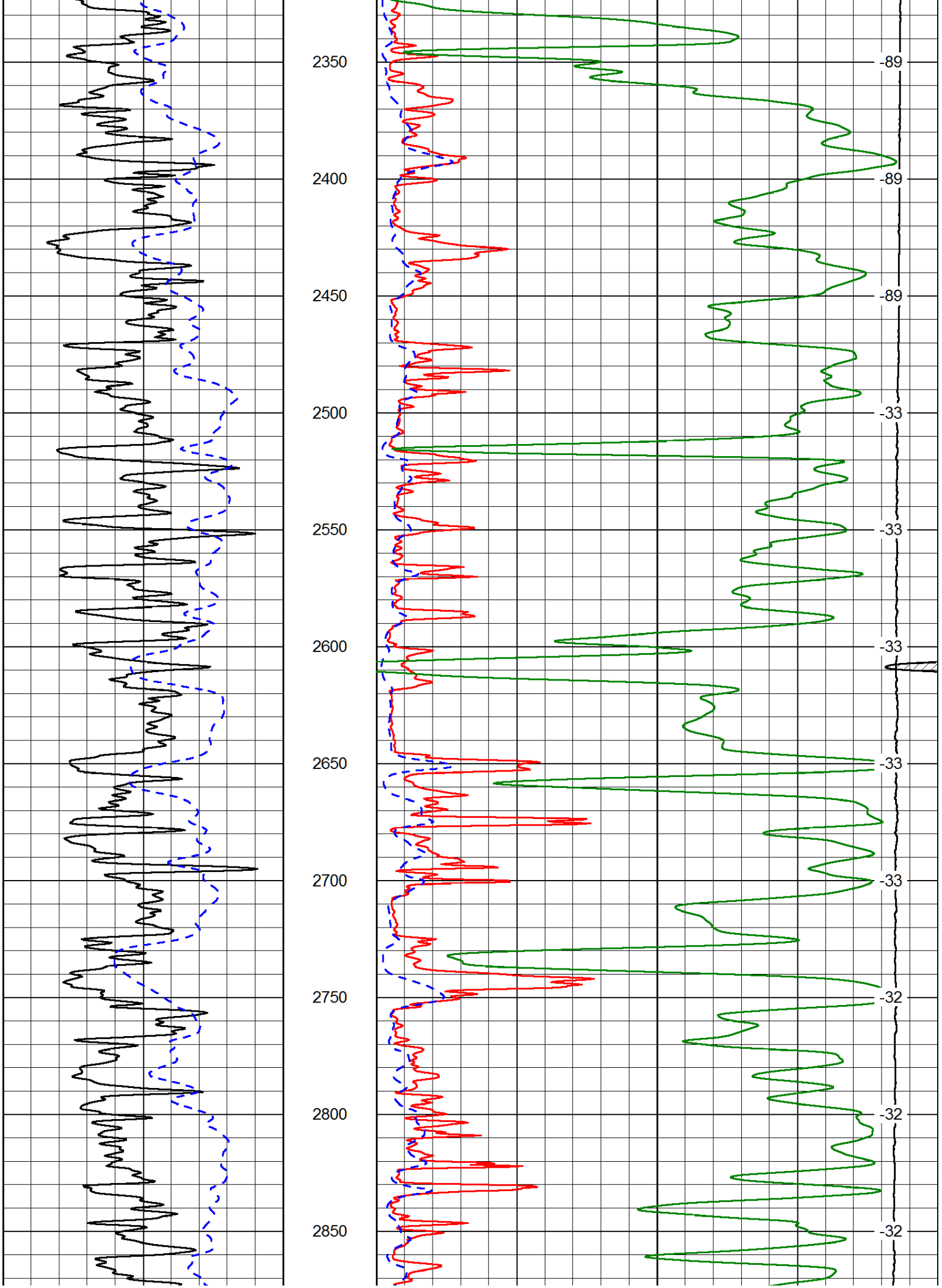
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Presentation Format:	dil2in
Dataset Creation:	Wed Oct 22 13:51:19 2014
Charted by:	Depth in Feet scaled 1:600

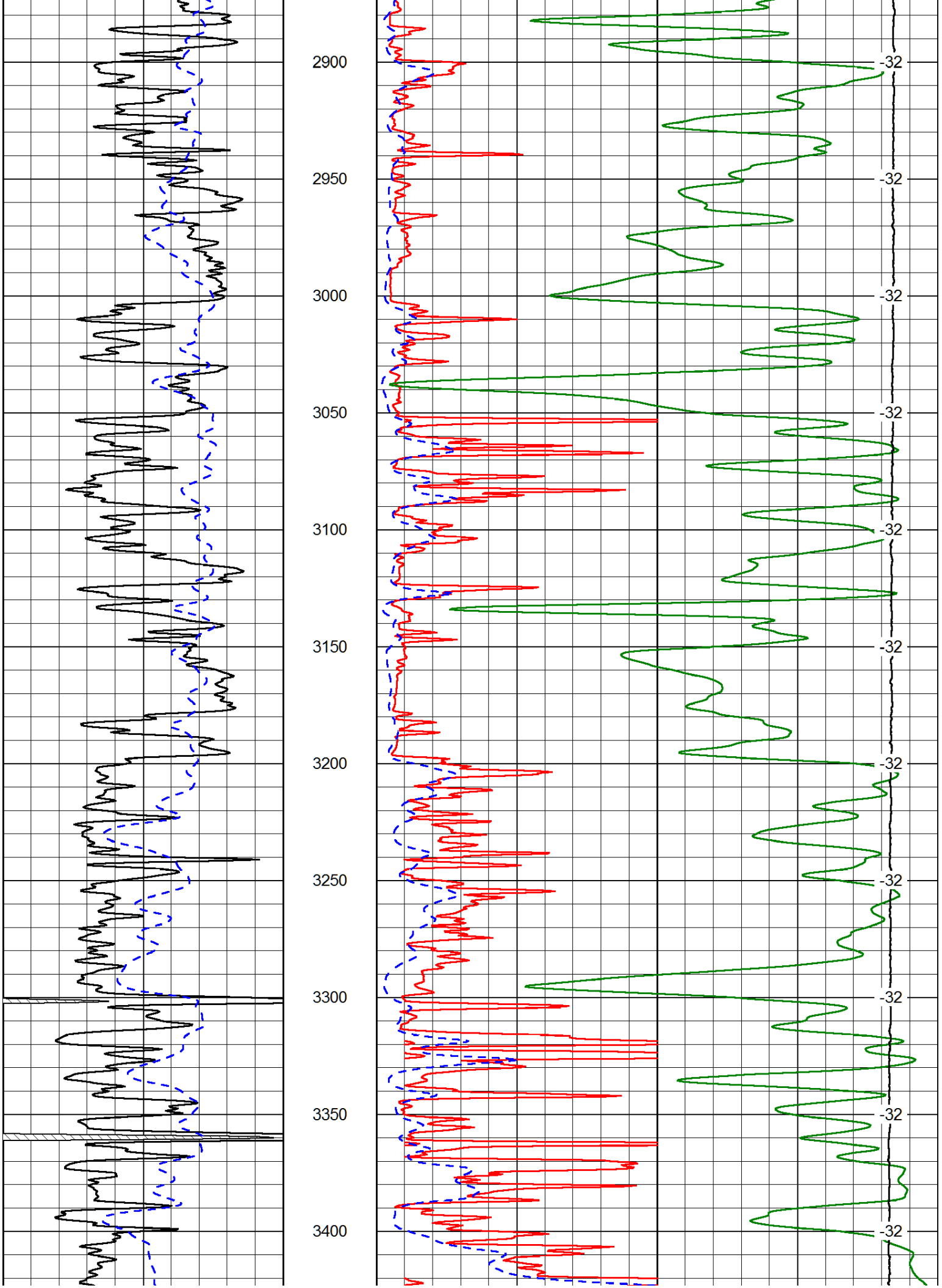

0 Gamma Ray 150
-200 SP (mV) 0
0 Shallow Resistivity 50
0 Deep Resistivity 50
1000 Conductivity 0
15000 Line Tension 0
50 Shallow Resistivity 500
50 Deep Resistivity 500
LSPD
200
250
300
350
400
450
500
550
600
650
-96
-46
-96
-94
-93
-94
-94
-94
-94
-94

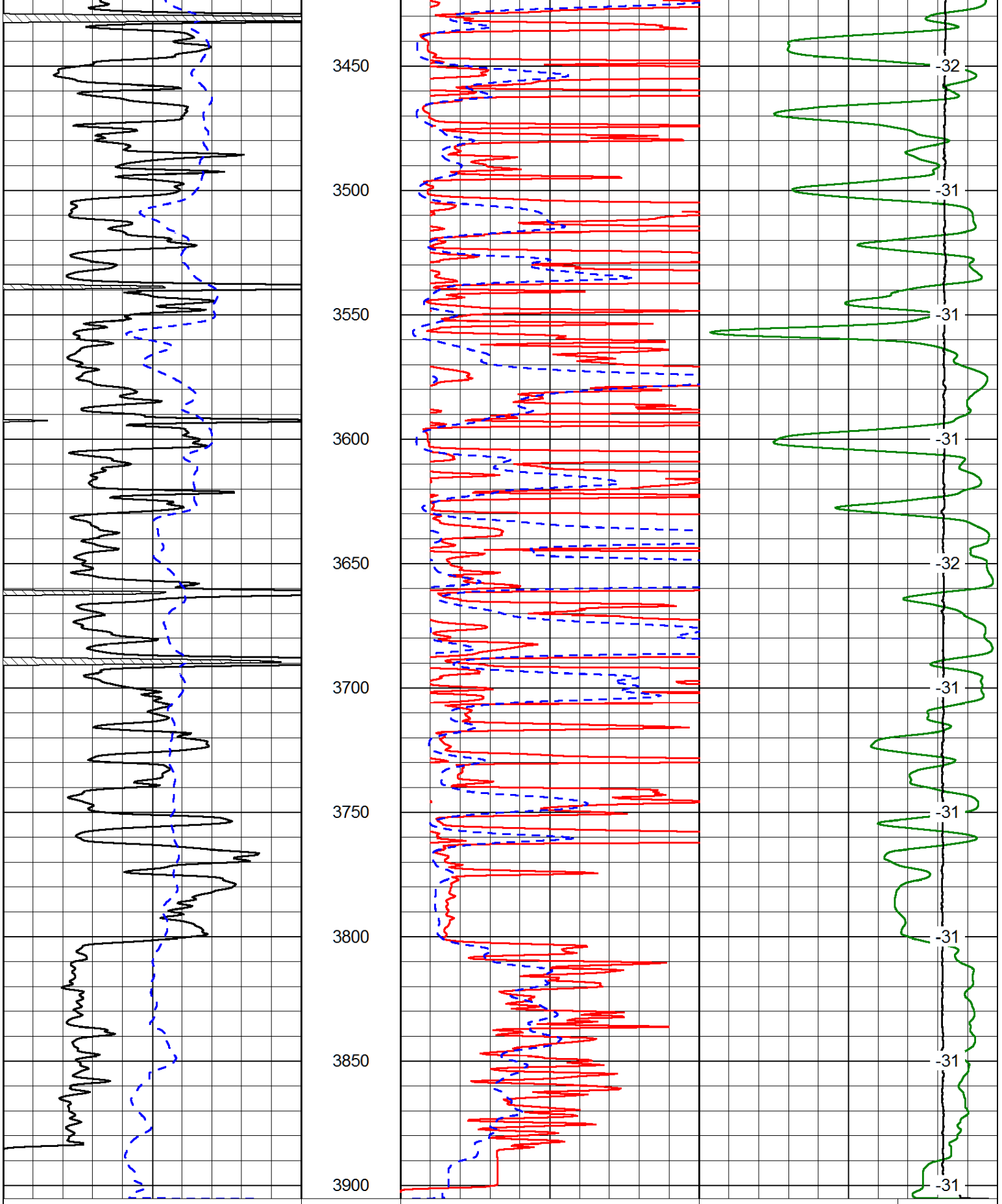

700
750
800
850
900
950
1000
1050
1100
1150
1200
-93
-94
-94
-94
-94
-94
-94
-94
-91
-92


1250
1300
1350
1400
1450
1500
1550
1600
1650
1700
1750
-91
-92
-92
-92
-92
-92
-91
-92
-92
-92
-91


1800
1850
1900
1950
2000
2050
2100
2150
2200
2250
2300
-90
-91
-91
-88
-88
-88
-89
-89
-88
-88
-89


2350
2400
2450
2500
2550
2600
2650
2700
2750
2800
2850
-89
-89
-89
-33
-33
-33
-33
-33
-32
-32
-32


2900
2950
3000
3050
3100
3150
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-32
-32
-32
-32

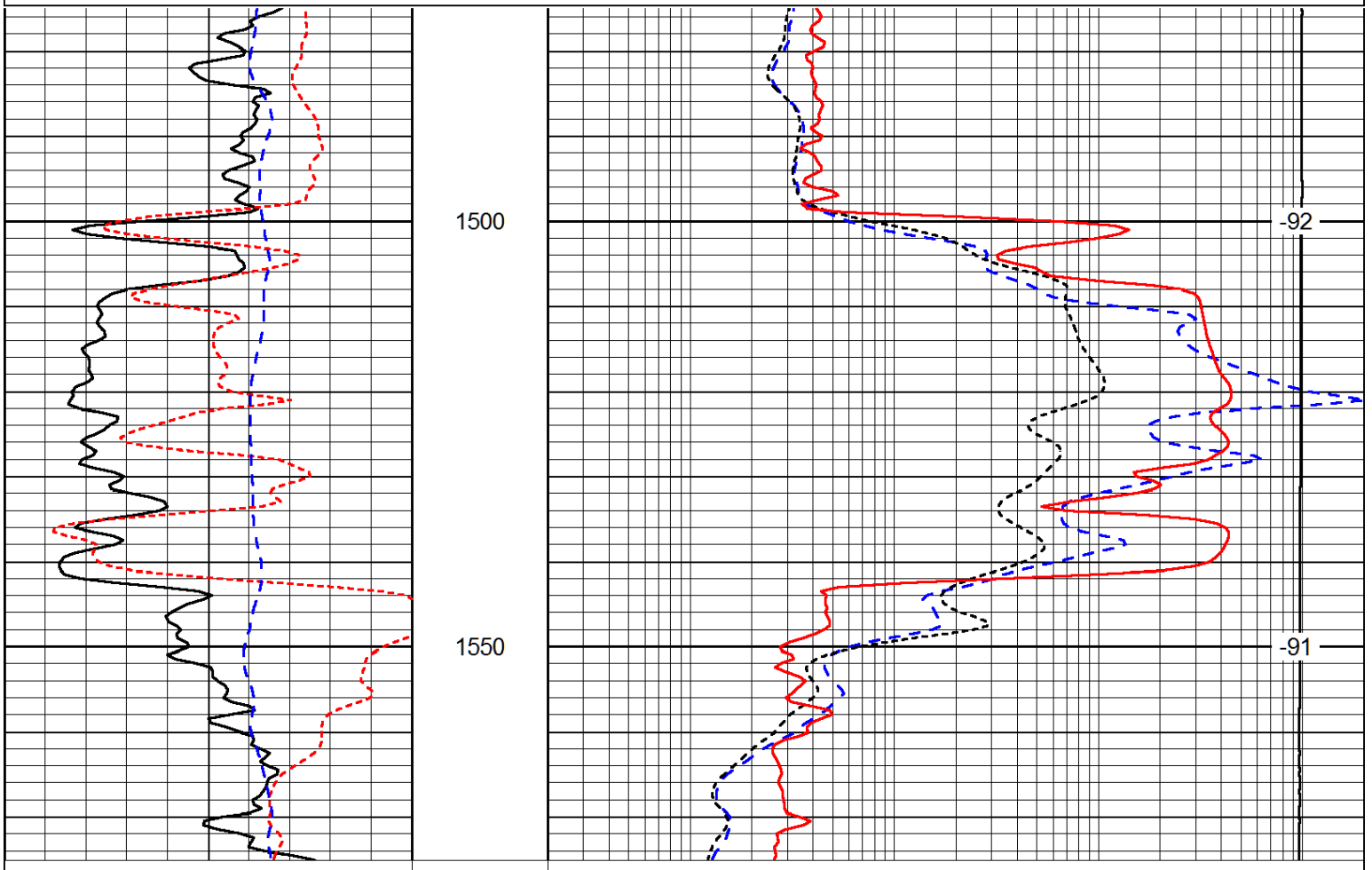

3450
3500
3550
3600
3650
3700
3750
3800
3850
3900
-32
-31
-31
-31
-32
-31
-31
-31
-31
-31
0 Gamma Ray 150
-200 SP (mV) 0
0 Shallow Resistivity 50
0 Deep Resistivity 50
LSPD
1000 Conductivity 0
15000 Line Tension 0
50 Shallow Resistivity 500
50 Deep Resistivity 500

Database File: tdi_george_2hd.db
Dataset Pathname: DIL/tdistck
Presentation Format: dil
Dataset Creation: Wed Oct 22 13:51:19 2014
Charted by: Depth in Feet scaled 1:240

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



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

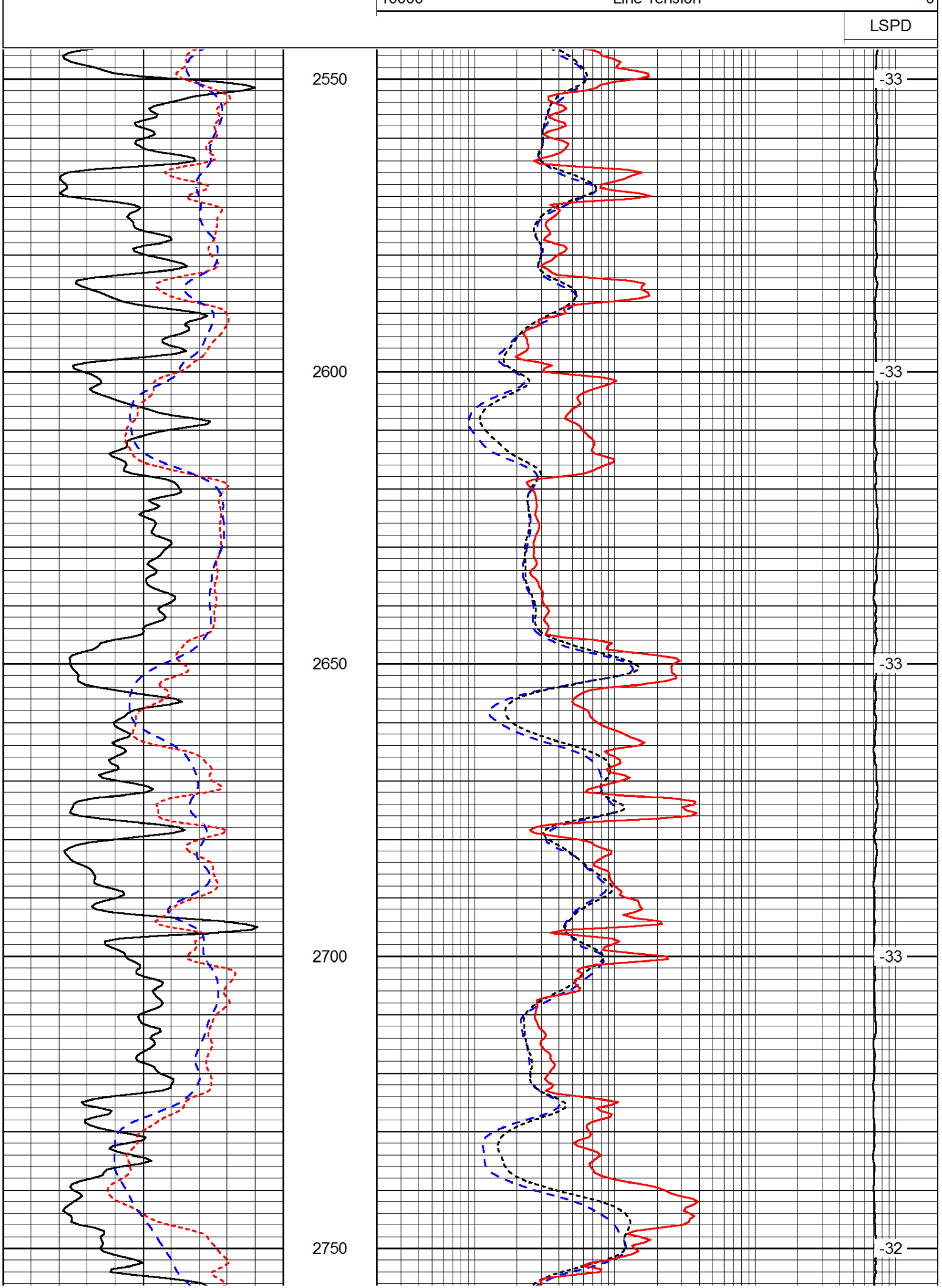
0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

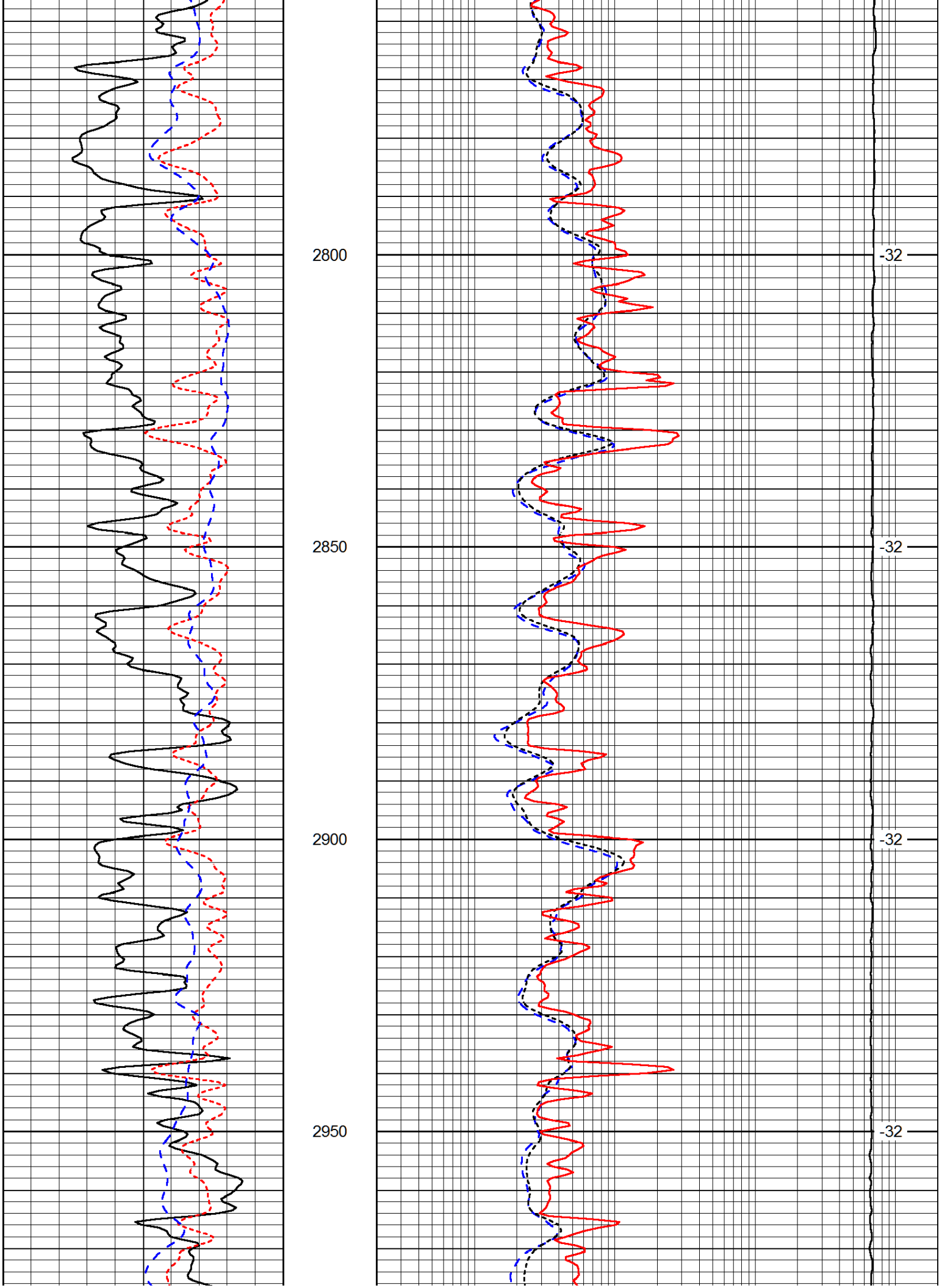
LSPD

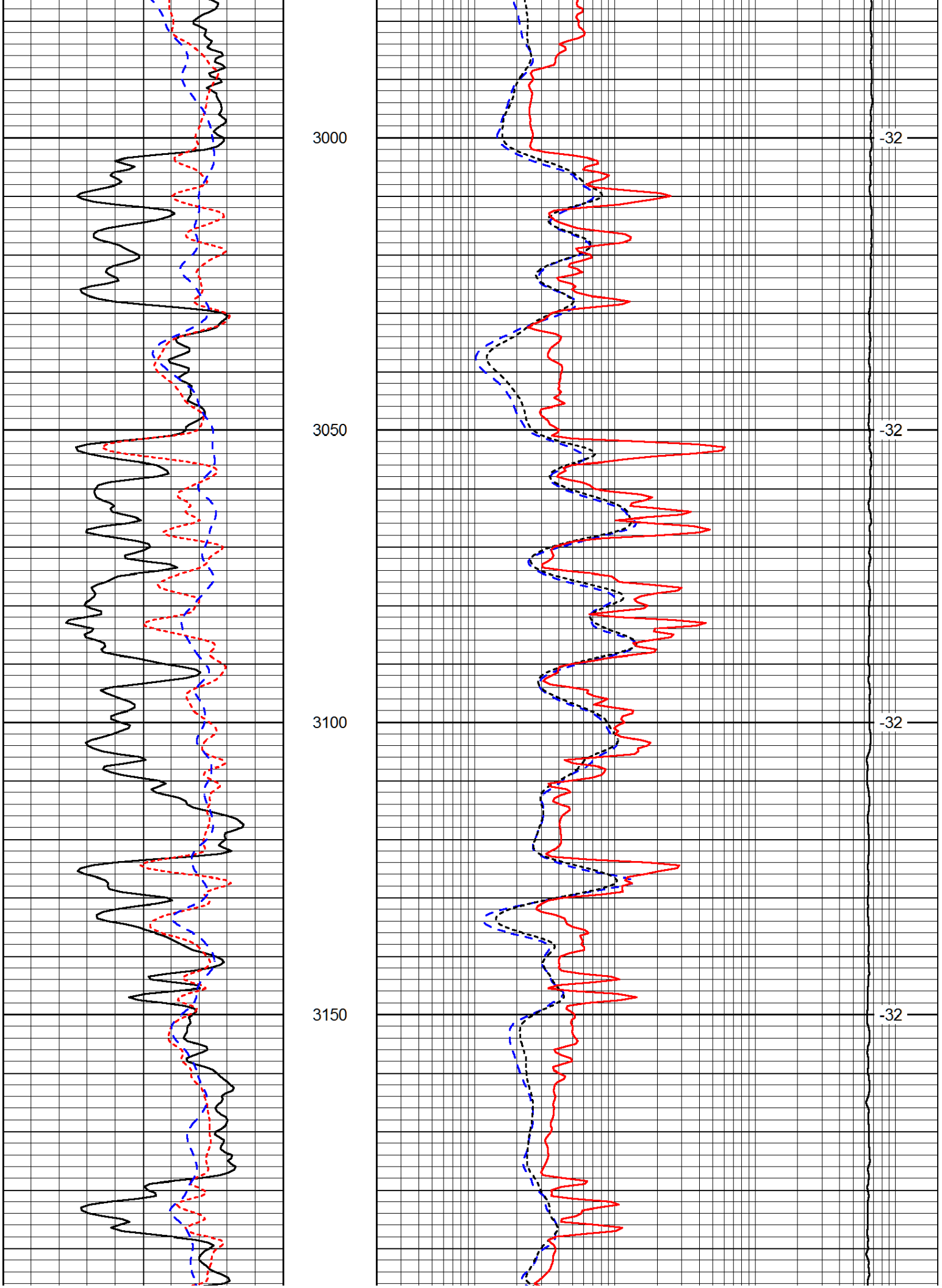
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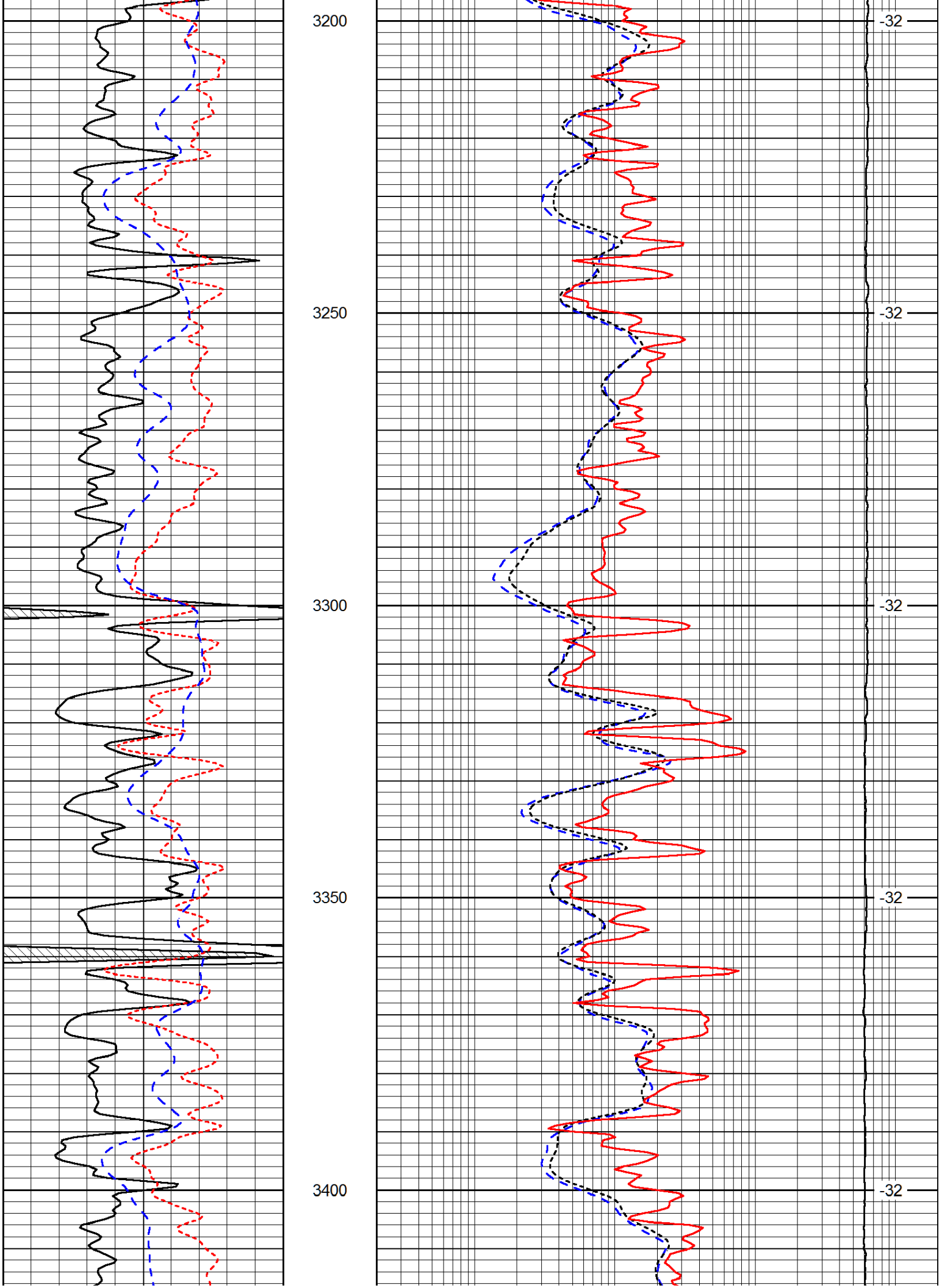
0	Gamma Ray	150
-160	RxoRt	40
-200	SP (mV)	0

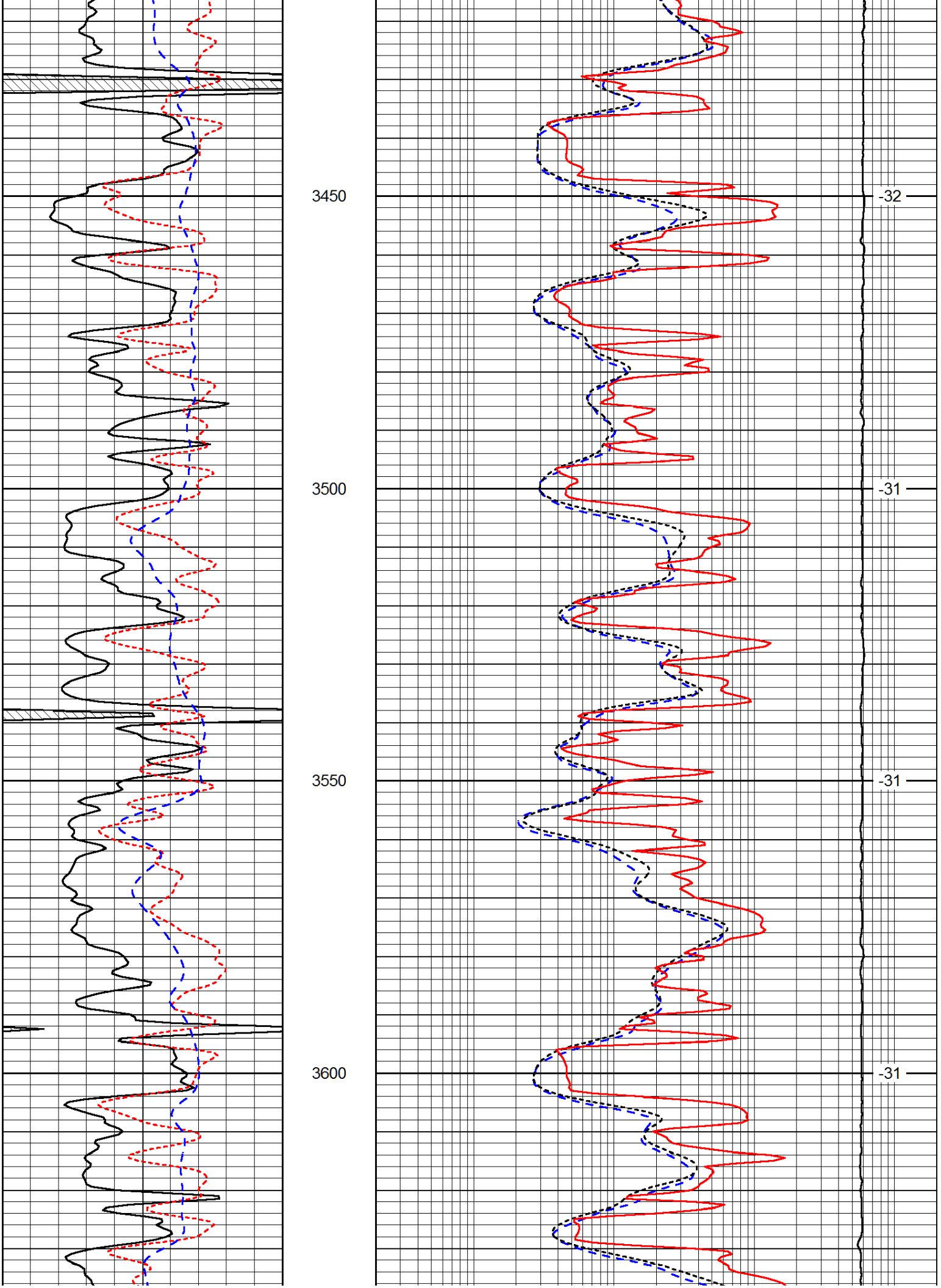
0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

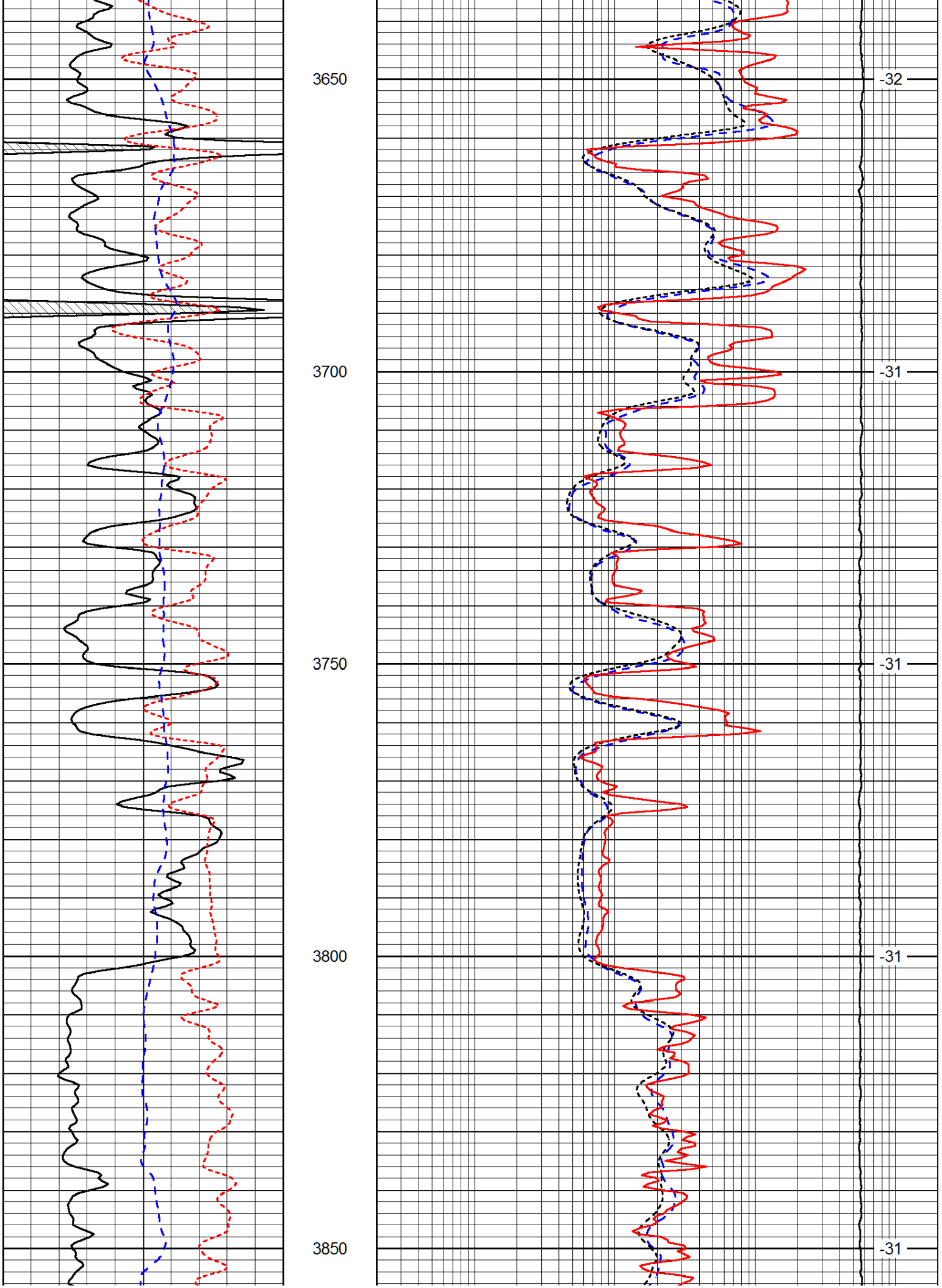

Line Tension
LSPD
2550
2600
2650
2700
2750
-33
-33
-33
-33
-32

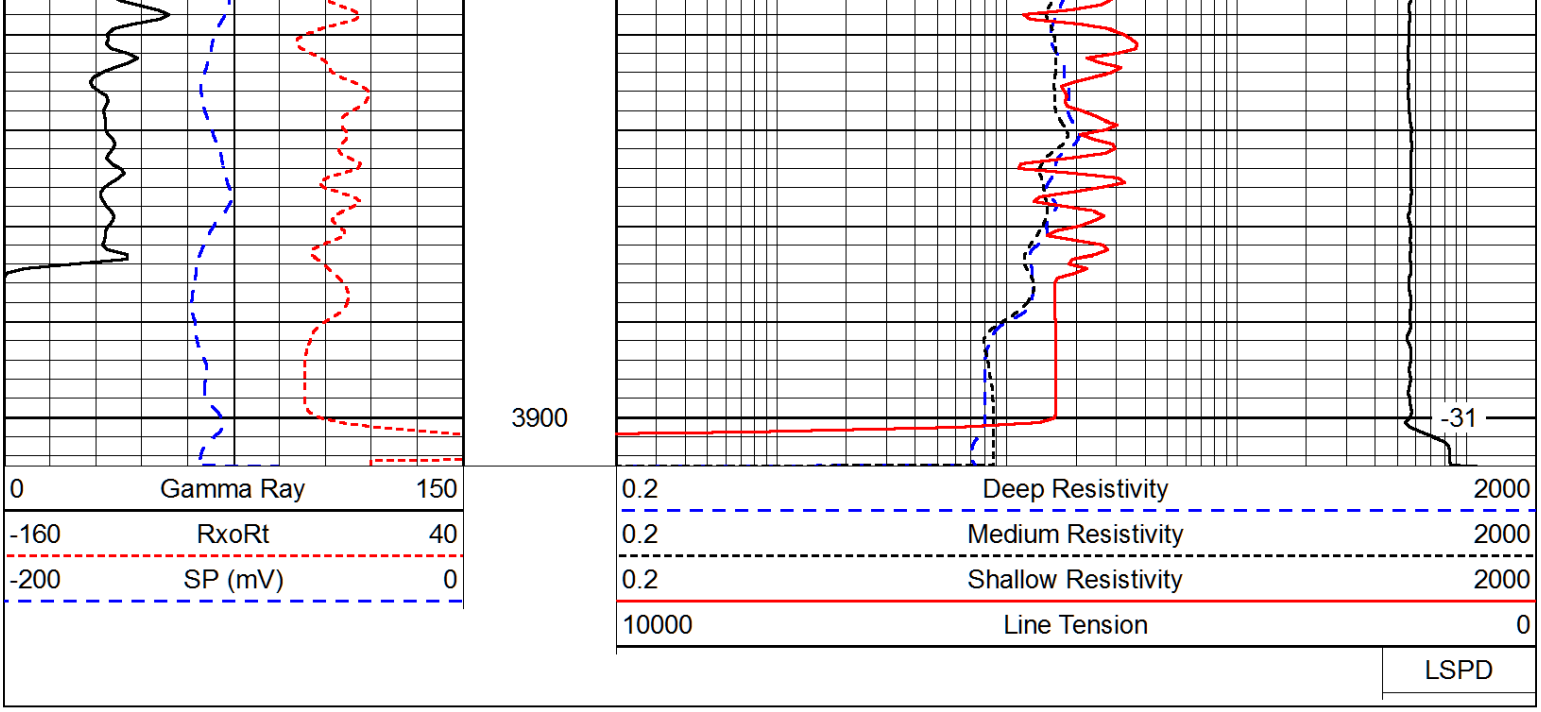

2800
2850
2900
2950
-32
-32
-32
-32


3000
3050
3100
3150
-32
-32
-32


3200
3250
3300
3350
3400
-32
-32
-32
-32
-32


3450
3500
3550
3600
-32
-31
-31
-31


3650
3700
3750
3800
3850
-32
-31
-31
-31
-31


3900
-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