PIONEER

Pioneer Energy Services

Dual Induction Log

Company	Bach Oil Production
Well	Oxbow Unit #1
Field	Wildcat
County	Phillips
State	Kansas
API No.	15-147-20,716-00-00

Location: 600' FNL & 100' FEL

Sec: 11 Twp: 1S Rge: 19W

Permanent Datum: Ground Level — Elevation 2004

Log Measured From: Kelly Bushing — 5 Ft. Above Perm. Datum

Drilling Measured From: Kelly Bushing

Other Services: CNL/CDL

Elevation: K.B. 2009 D.F. G.L. 2004

Date	8/25/2013					
Run Number	One					
Depth Driller	3501					
Depth Logger	3500					
Bottom Logged Interval	3499					
Top Log Interval	200					
Casing Driller	8.625 @ 222					
Casing Logger	222					
Bit Size	7.875					
Type Fluid in Hole	Chemical					
Salinity,ppm CL	500					
Density / Viscosity	9.1	52				
pH / Fluid Loss	10.5	6.4				
Source of Sample	Flowline					
Rm @ Meas. Temp	2.1 @ 81					
Rmf @ Meas. Temp	1.58 @ 81					
Rmc @ Meas. Temp	2.84 @ 81					
Source of Rmf / Rmc	Charts					
Rm @ BHT	1.53 @ 111					
Operating Rig Time	2 1/2 Hours					
Max Rec. Temp. F	111					
Equipment Number	17					
Location	Hays					
Recorded By	C. Desaire					
Witnessed By	Bob Petersen					

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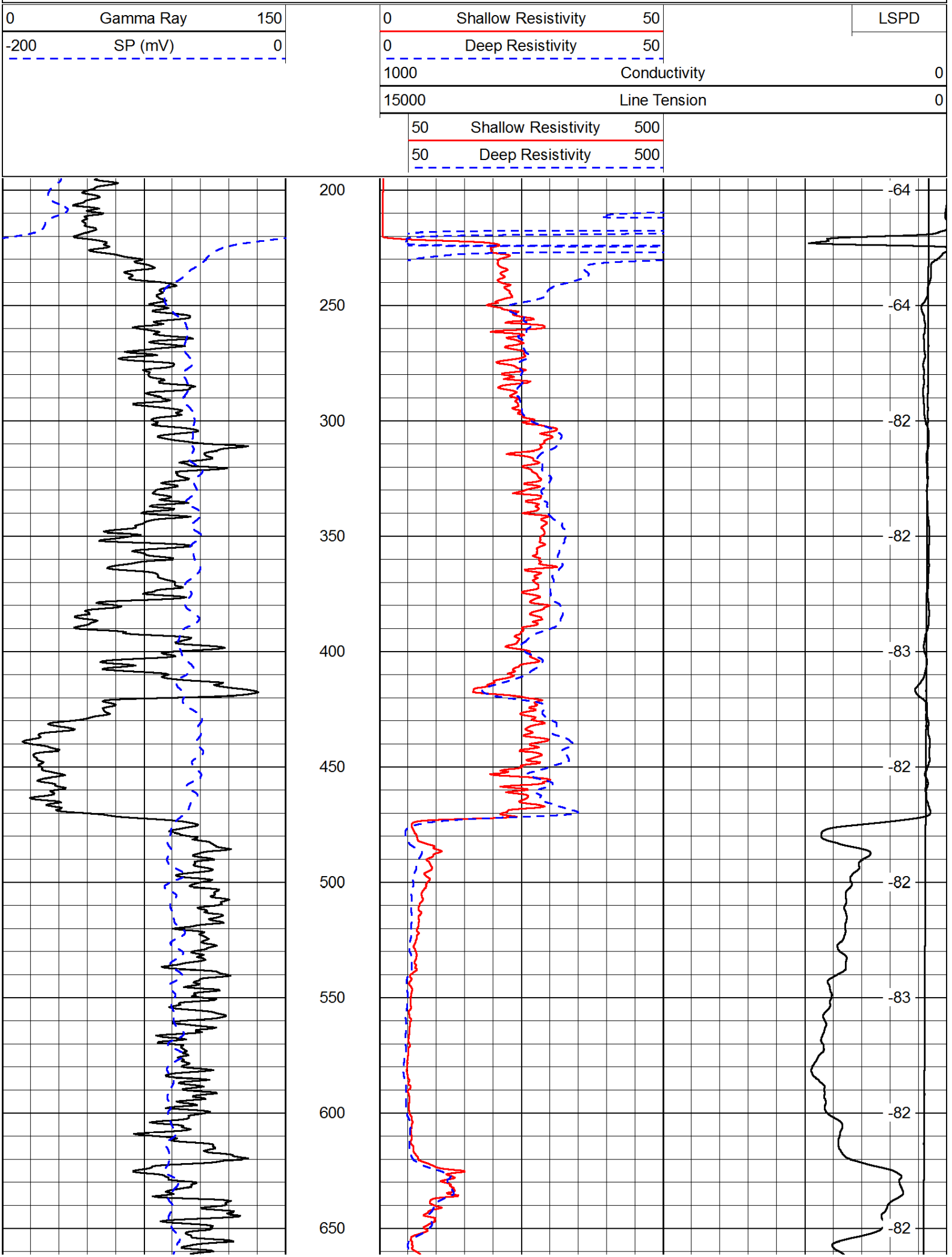
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

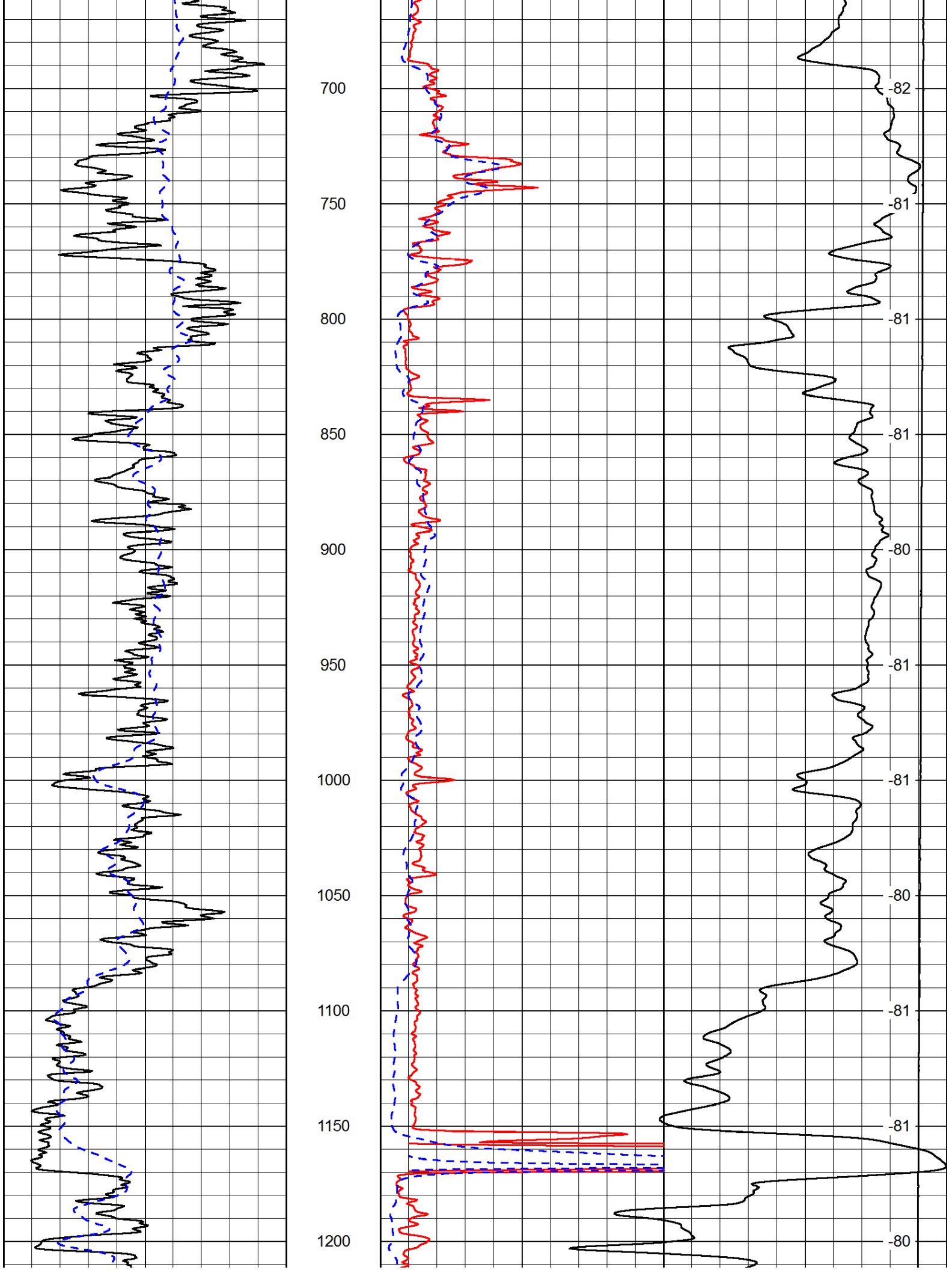
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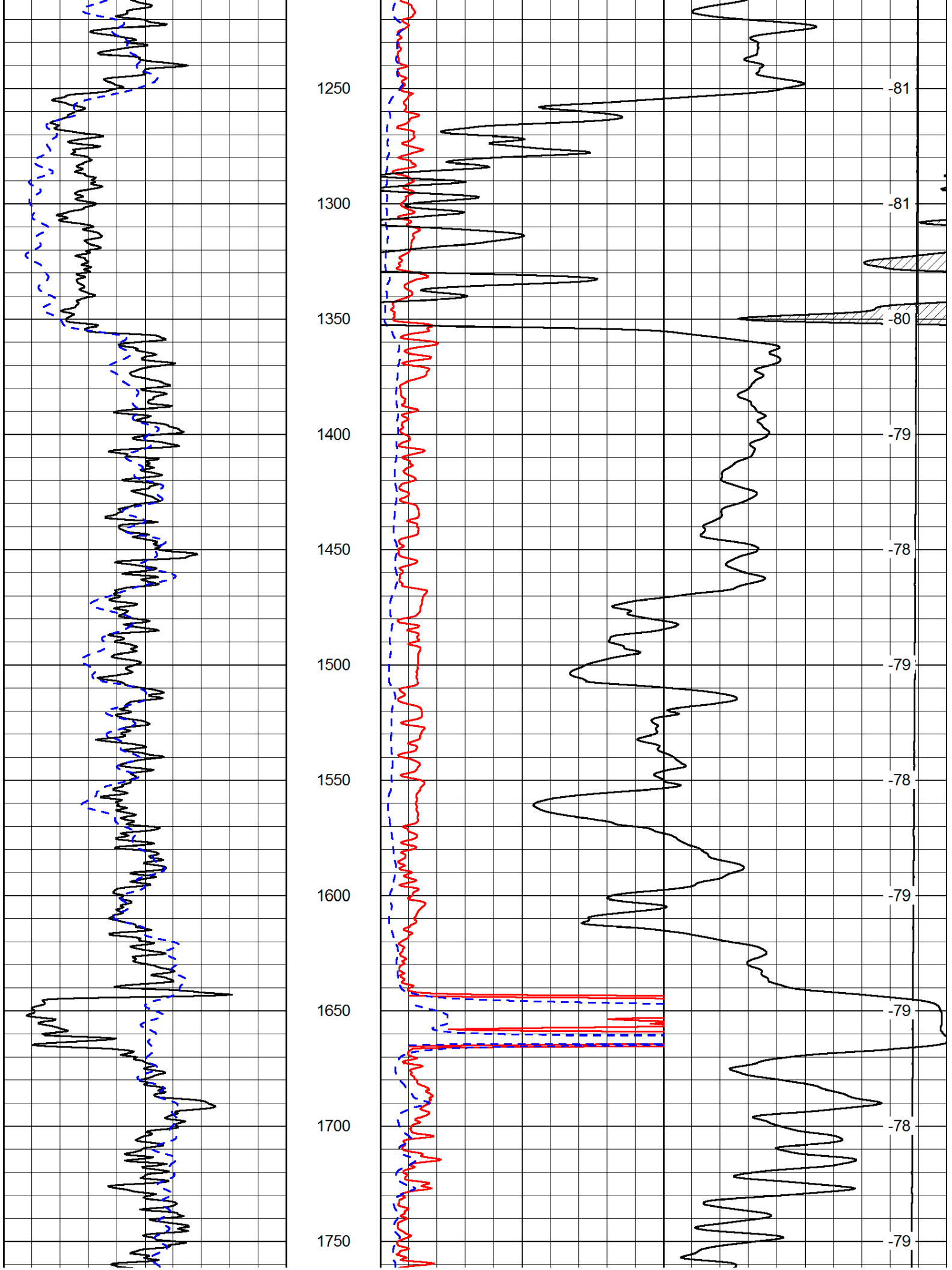
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785 625 3858

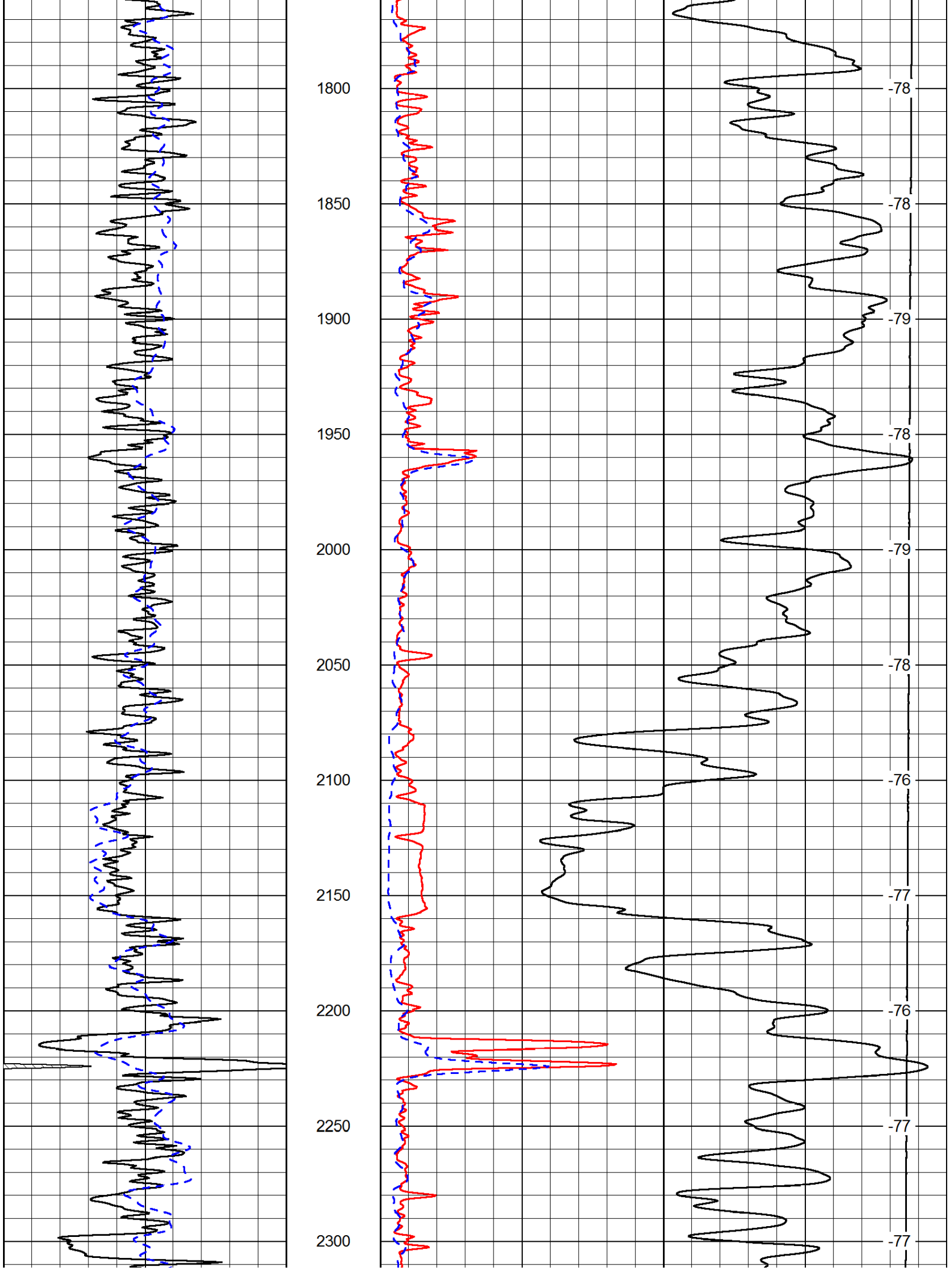
Phillipsburg KS, N to Hwy 183/383 Junc.
3 W to 500 Rd, 1/2 S W Into

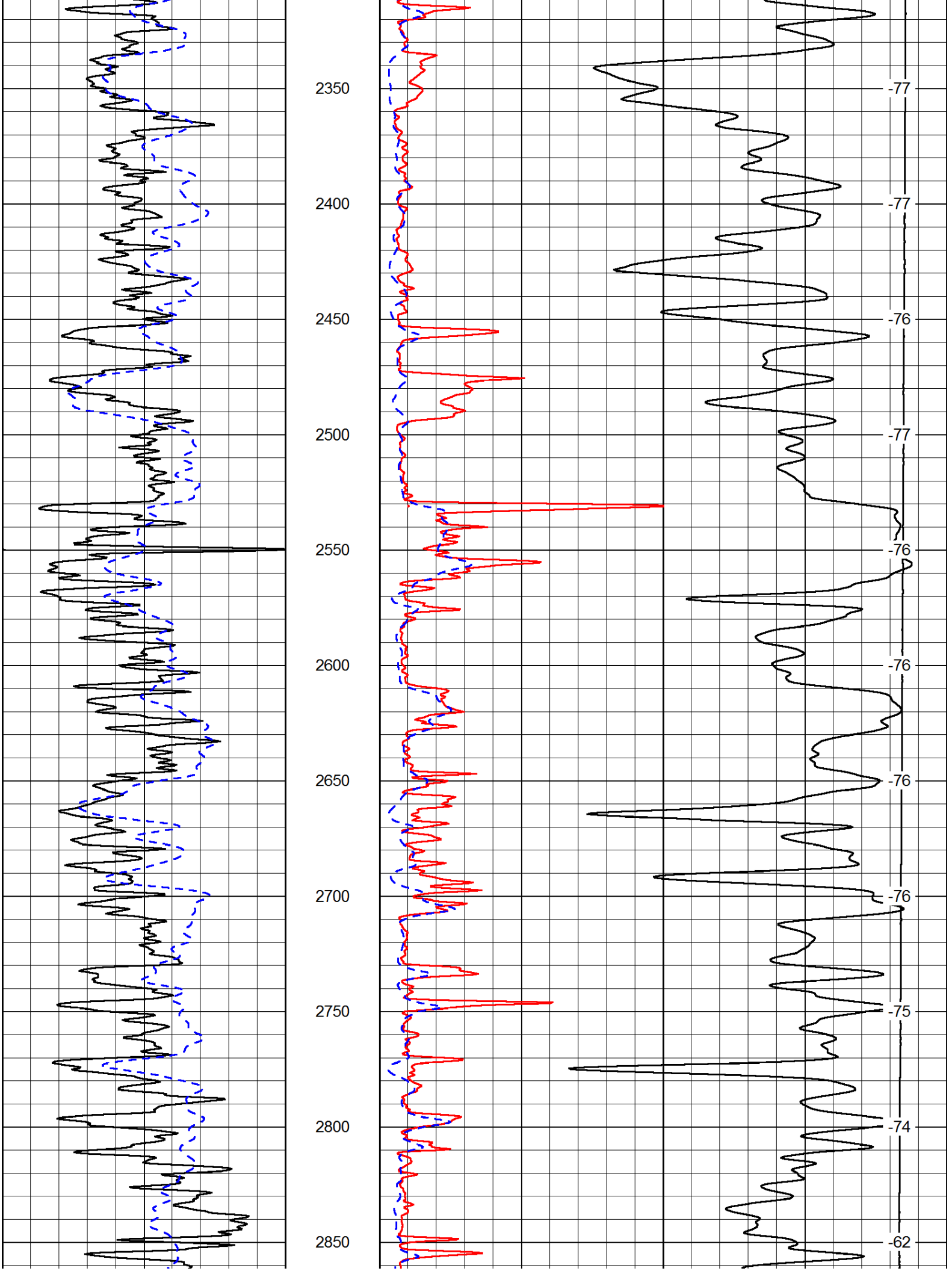
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Presentation Format:	dil2in
Dataset Creation:	Sun Aug 25 02:54:40 2013
Charted by:	Depth in Feet scaled 1:600

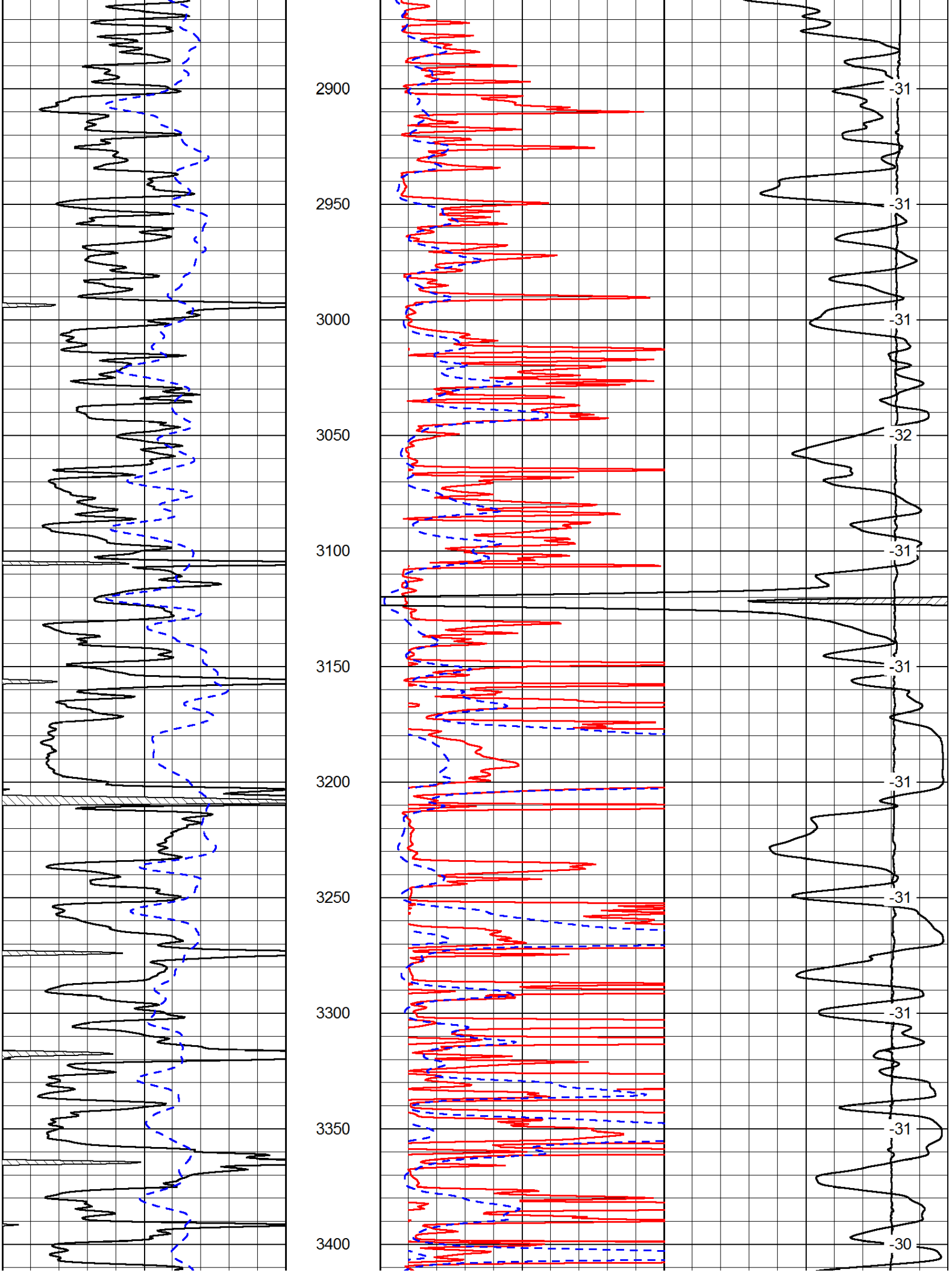

0 Gamma Ray 150
-200 SP (mV) 0
0 Shallow Resistivity 50
0 Deep Resistivity 50
1000 Conductivity 0
15000 Line Tension 0
50 Shallow Resistivity 500
50 Deep Resistivity 500
LSPD
200
250
300
350
400
450
500
550
600
650
-64
-64
-82
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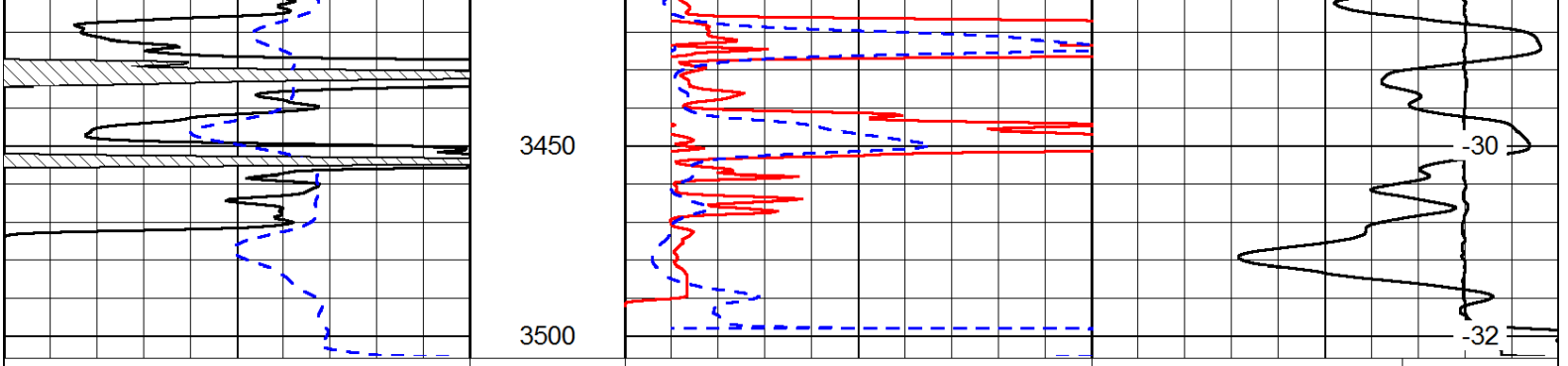

700
750
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850
900
950
1000
1050
1100
1150
1200
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1250
1300
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1550
1600
1650
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1800
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1950
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2100
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-74
-62


2900
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3000
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3100
3150
3200
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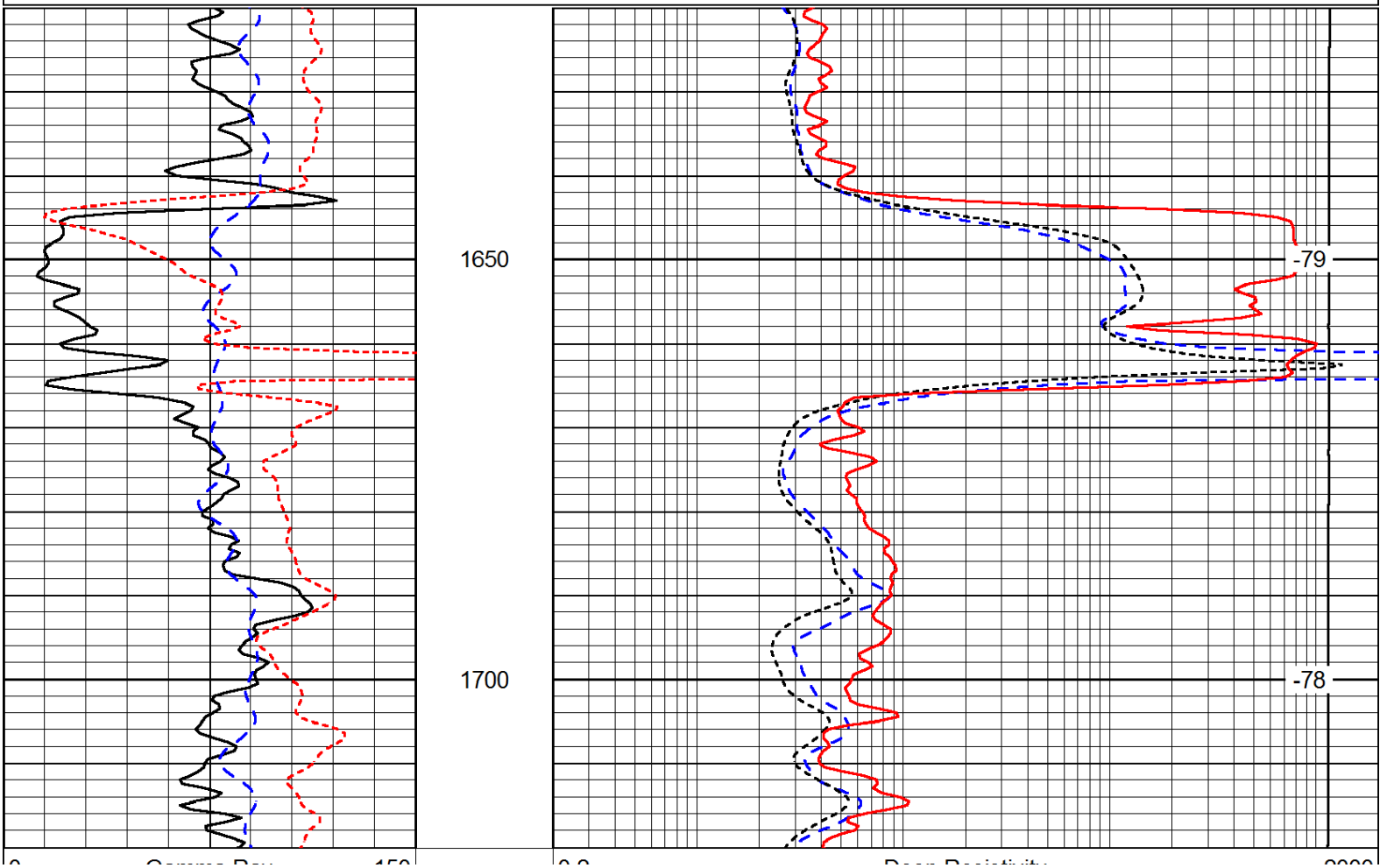
0	Gamma Ray	150
-200	SP (mV)	0
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

LSPD

Database File:	c:\warrior\data\bach_oxbow unit #1\bachhd.db
Dataset Pathname:	dil/bachstk
Presentation Format:	dil
Dataset Creation:	Sun Aug 25 02:54:40 2013
Charted by:	Depth in Feet scaled 1:240

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



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

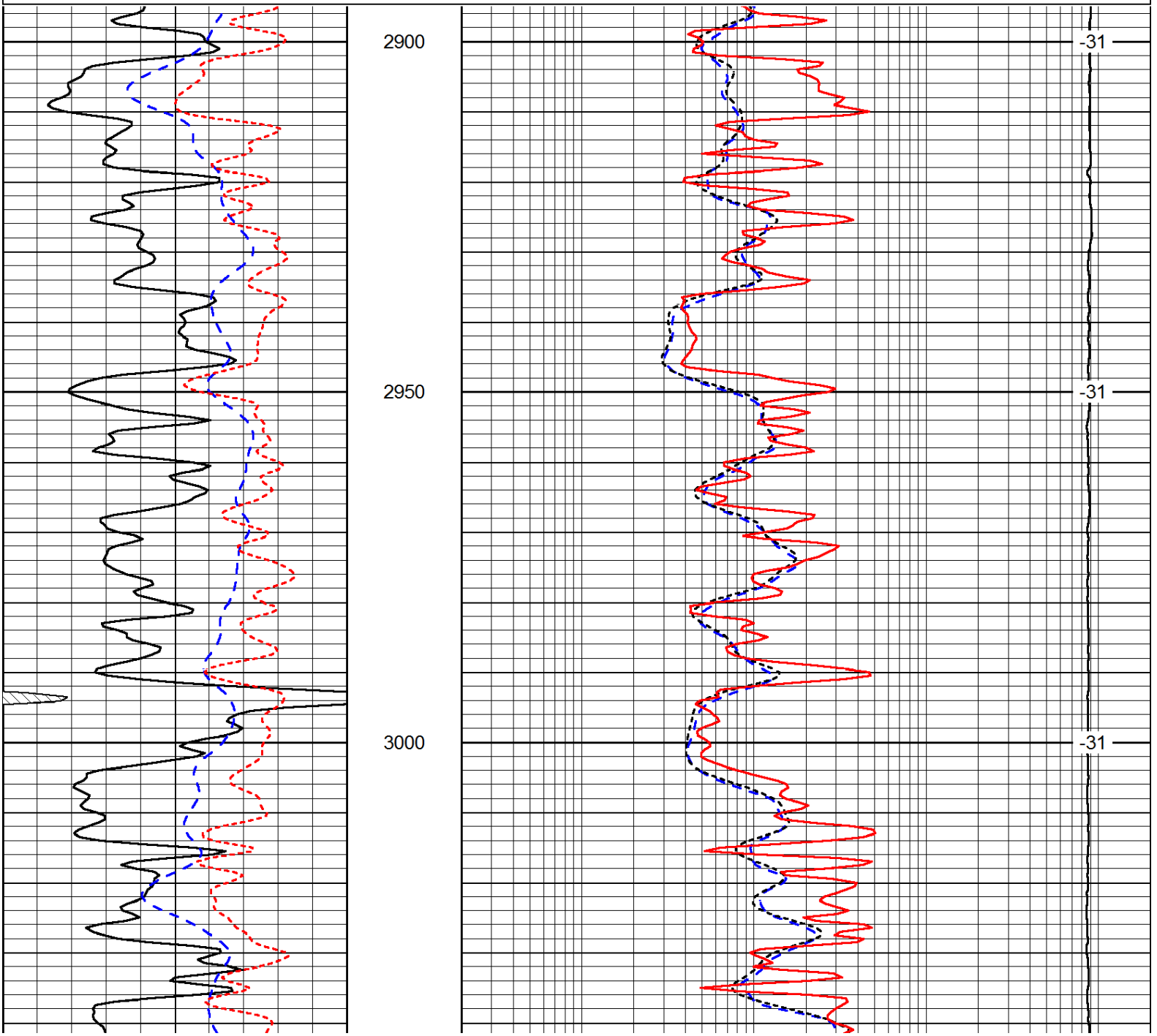
LSPD

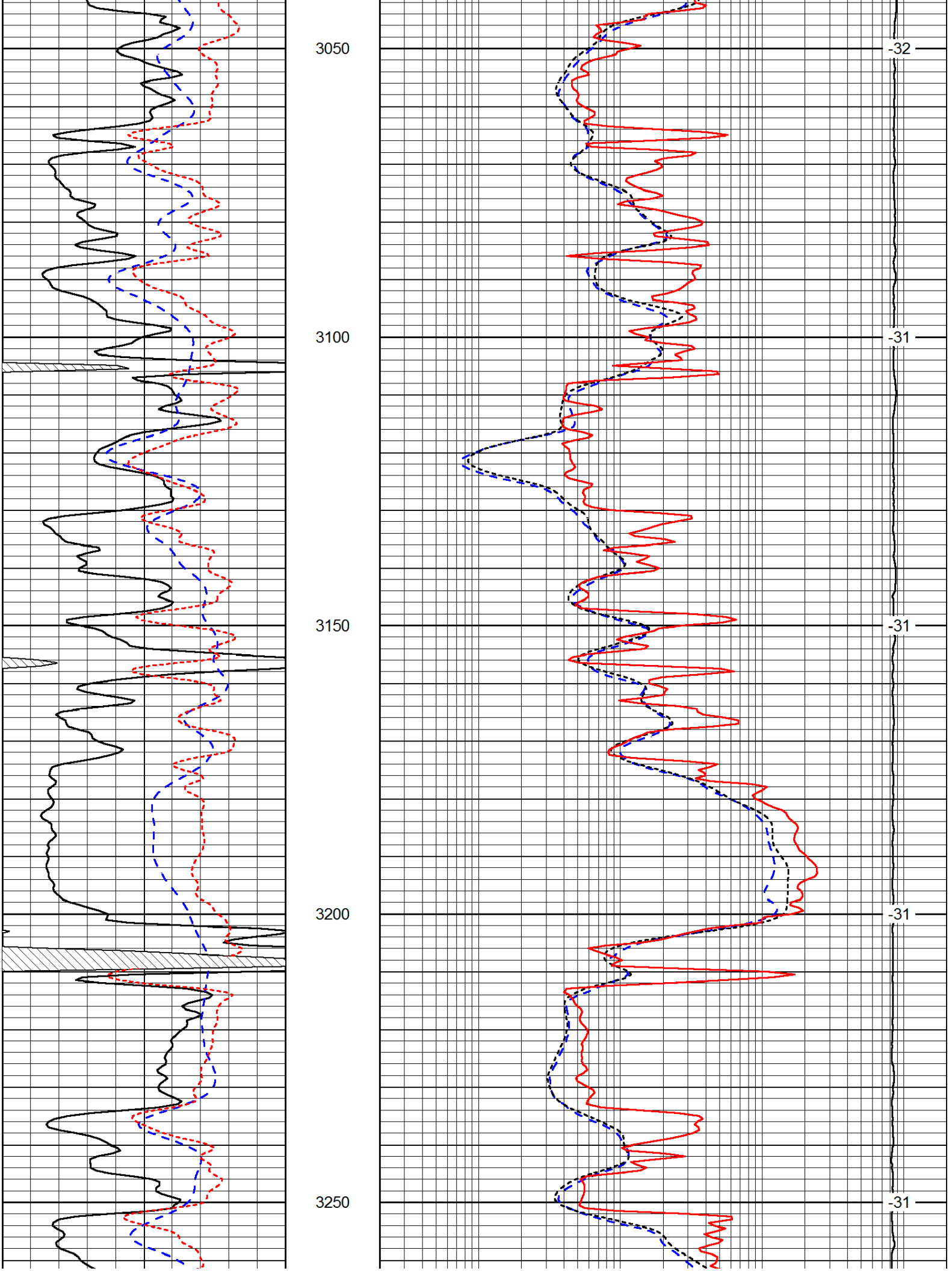
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Dataset Pathname: dil/bachstk
Presentation Format: dil
Dataset Creation: Sun Aug 25 02:54:40 2013
Charted by: Depth in Feet scaled 1:240

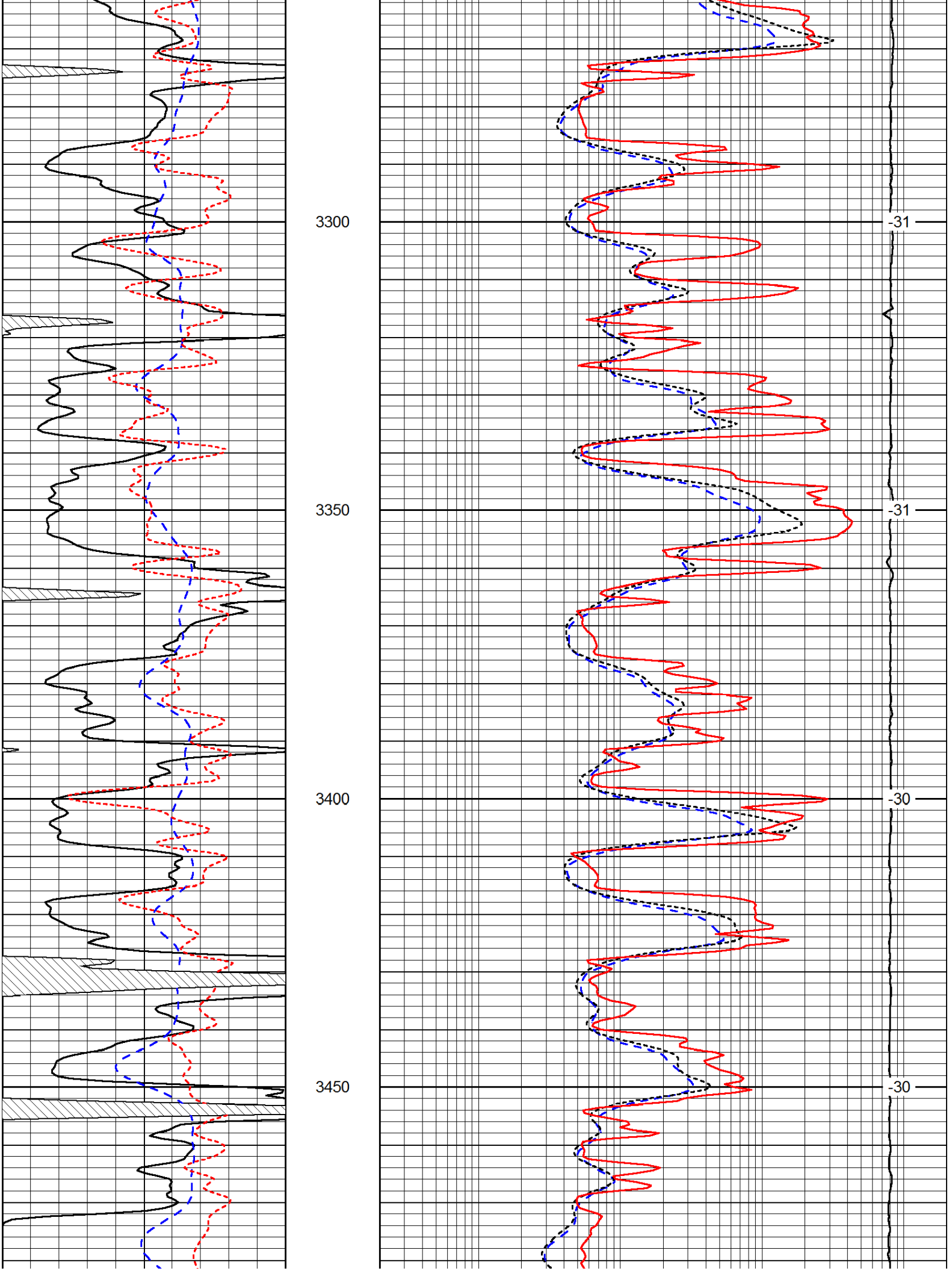
0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

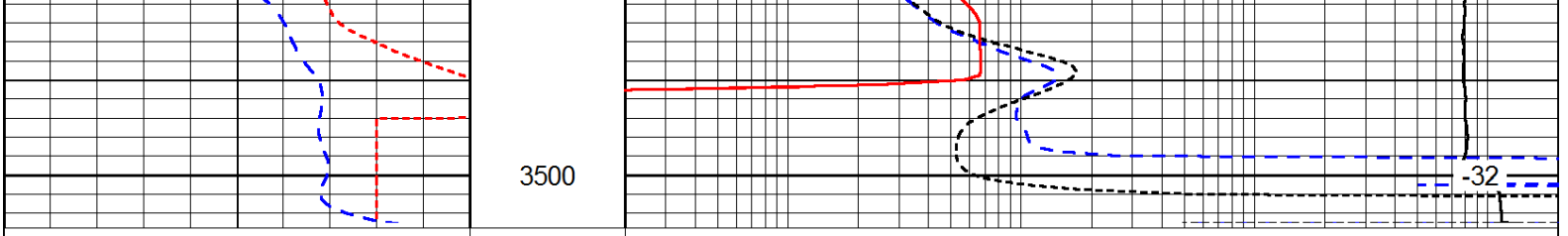
0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD




3050
3100
3150
3200
3250
-32
-31
-31
-31
-31


3300
3350
3400
3450
-31
-31
-30
-30



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