PIONEER

Pioneer Energy Services

Dual Induction Log

API No. 15-115-21,462-00-00

Company K-Bar Oil

Well Hawk No. 15

Field Edmonds

County Marion State Kansas

Location SW-SW-NE-NE
1050' FNL & 1282' FEL
Sec: 31 Twp: 22S Rge: 4E

Other Services
CNL/CDL
MEL

Elevation
K.B. 1403
D.F.
G.L. 1397

Permanent Datum Ground Level Elevation 1397
Log Measured From Ground Level 0 Ft. Above Perm. Datum
Drilling Measured From Ground Level

Date	1/18/14			
Run Number	One			
Depth Driller	2783			
Depth Logger	2776			
Bottom Logged Interval	2775			
Top Log Interval	200			
Casing Driller	8.625 @ 207			
Casing Logger	208			
Bit Size	7.875			
Type Fluid in Hole	Chemical			
Salinity,ppm CL	1,200			
Density / Viscosity	9.4 36			
pH / Fluid Loss	9.0 9.6			
Source of Sample	Flowline			
Rm @ Meas. Temp	2.0 @ 50			
Rmf @ Meas. Temp	1.5 @ 50			
Rmc @ Meas. Temp	2.7 @ 50			
Source of Rmf / Rmc	Charts			
Rm @ BHT	.96 @ 104			
Operating Rig Time	3 Hours			
Max. Rec. Temp. F	104			
Equipment Number	108			
Location	Hays			
Recorded By	J. Henrickson			
Witnessed By	Steve Reed			

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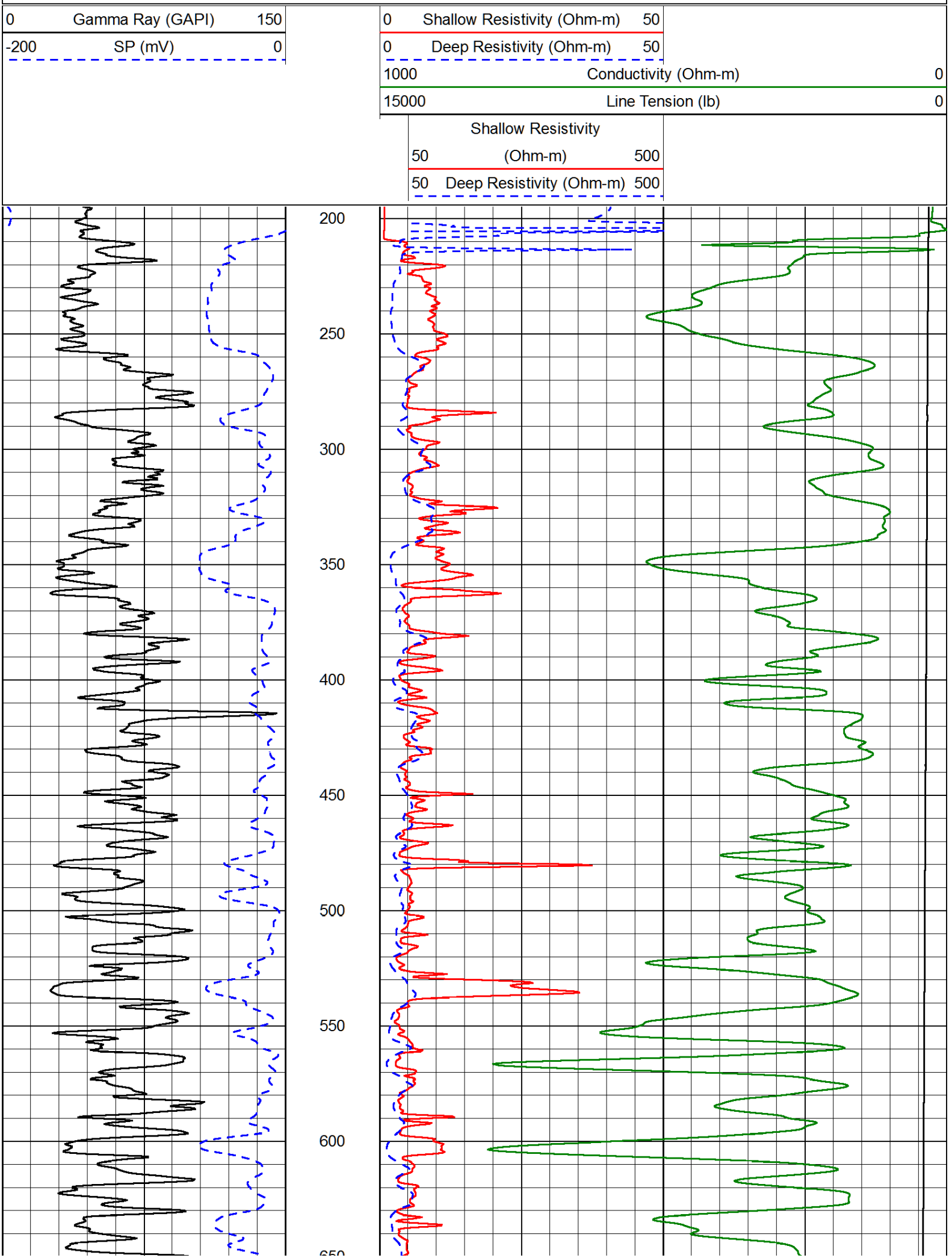
Comments

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

Salina Kansas
South to Hesston Exit, East to K15 HWY, 2 South to NE 60 Rd, East to Walton Ks,
10.2 East to Quail Rd, 1 South, 1 1/2 East, South Into

Database File:	k_bar_hawk_15hd.db
Dataset Pathname:	DIL/kbarstk
Presentation Format:	dil2in
Dataset Creation:	Sat Jan 18 17:55:18 2014
Charted by:	Depth in Feet scaled 1:600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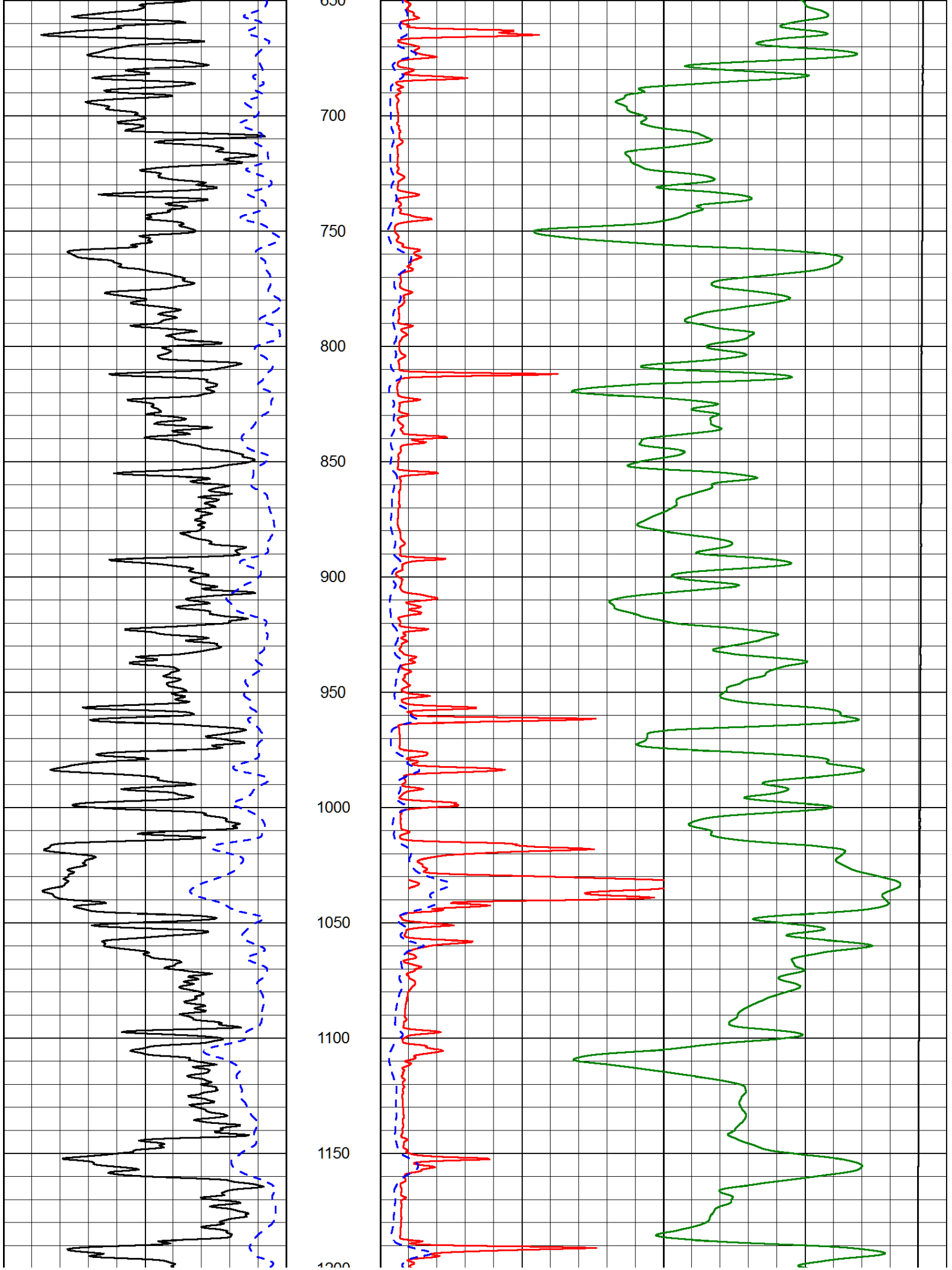
-200 SP (mV) 0
0 Shallow Resistivity (Ohm-m) 50
0 Deep Resistivity (Ohm-m) 50
1000 Conductivity (Ohm-m) 0
15000 Line Tension (lb) 0
Shallow Resistivity
50 (Ohm-m) 500
50 Deep Resistivity (Ohm-m) 500
200
250
300
350
400
450
500
550
600
650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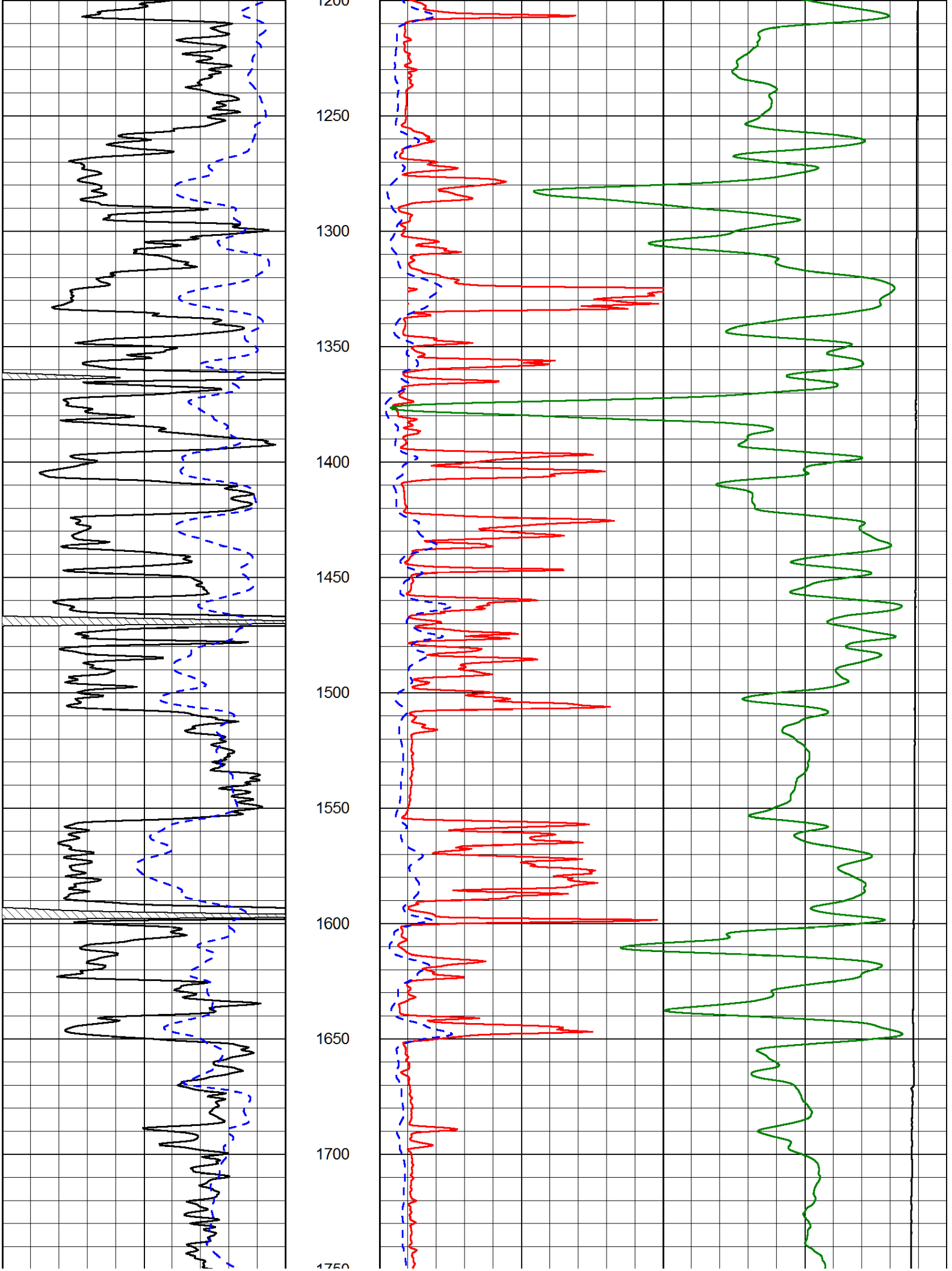
700
750
800
850
900
950
1000
1050
1100
1150
1200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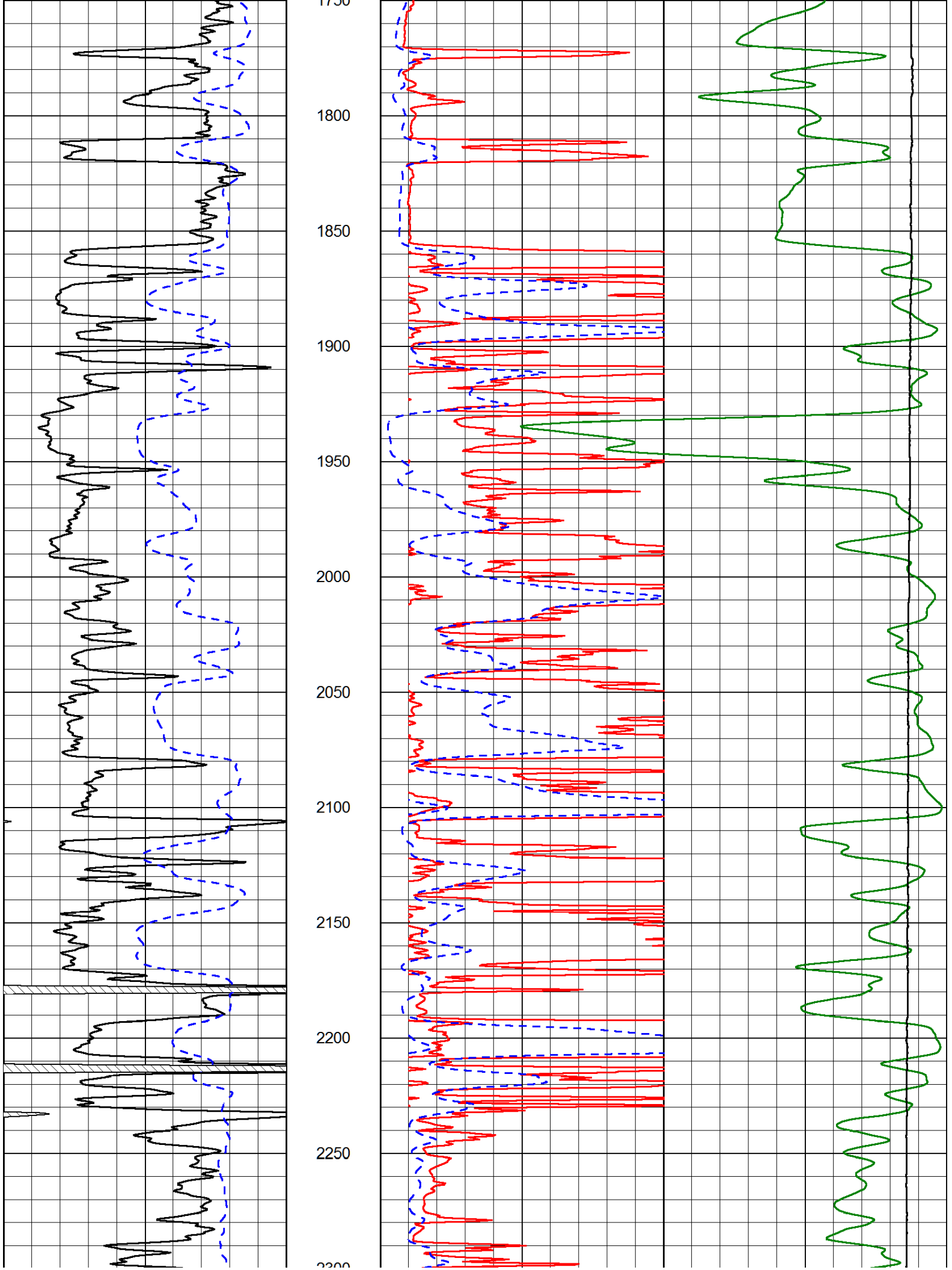
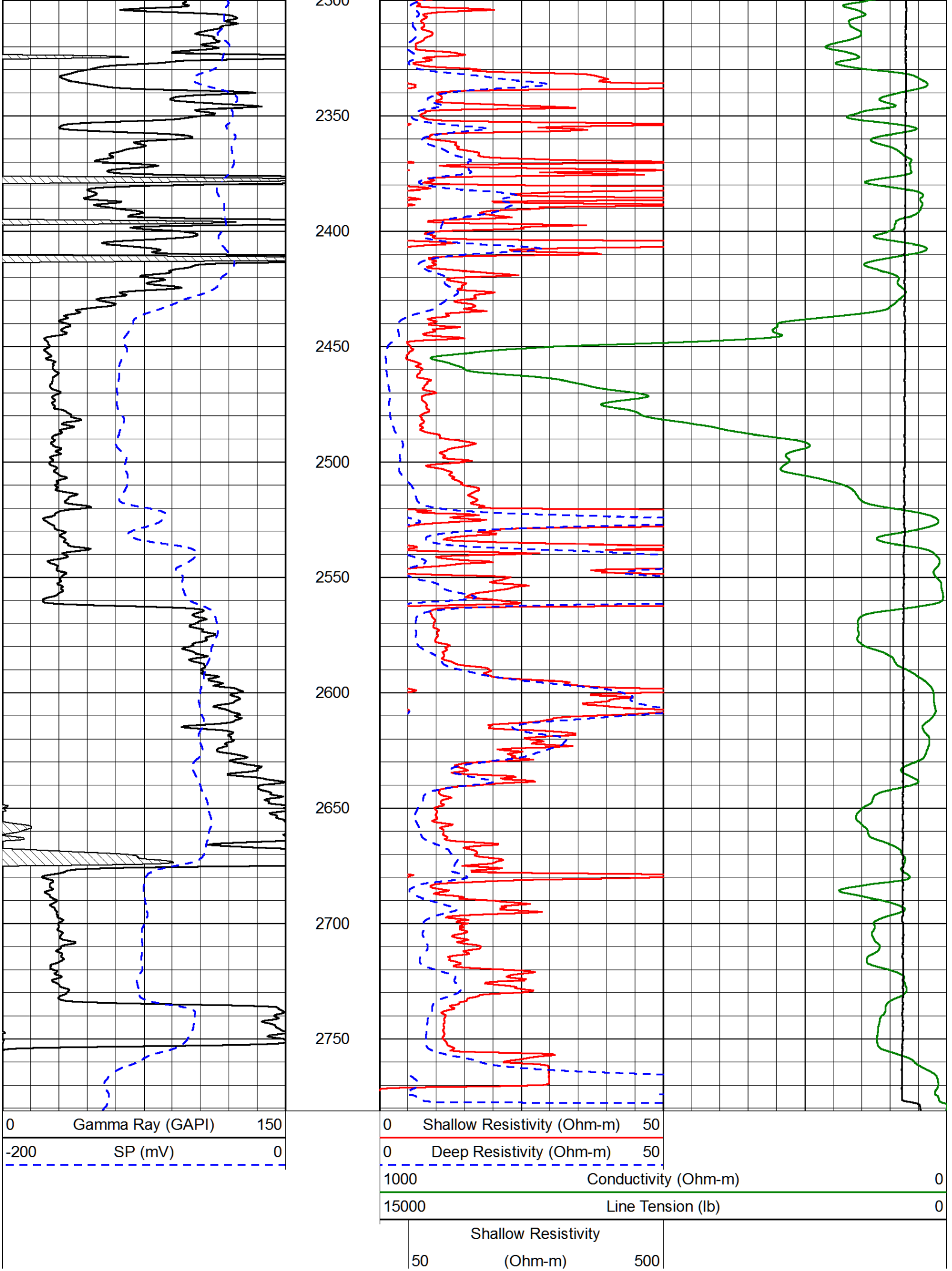
1250
1300
1350
1400
1450
1500
1550
1600
1650
1700
1750


1750
1800
1850
1900
1950
2000
2050
2100
2150
2200
2250
2300


2300
2350
2400
2450
2500
2550
2600
2650
2700
2750
0 Gamma Ray (GAPI) 150
-200 SP (mV) 0
0 Shallow Resistivity (Ohm-m) 50
0 Deep Resistivity (Ohm-m) 50
1000 Conductivity (Ohm-m) 0
15000 Line Tension (lb) 0
Shallow Resistivity
50 (Ohm-m) 500

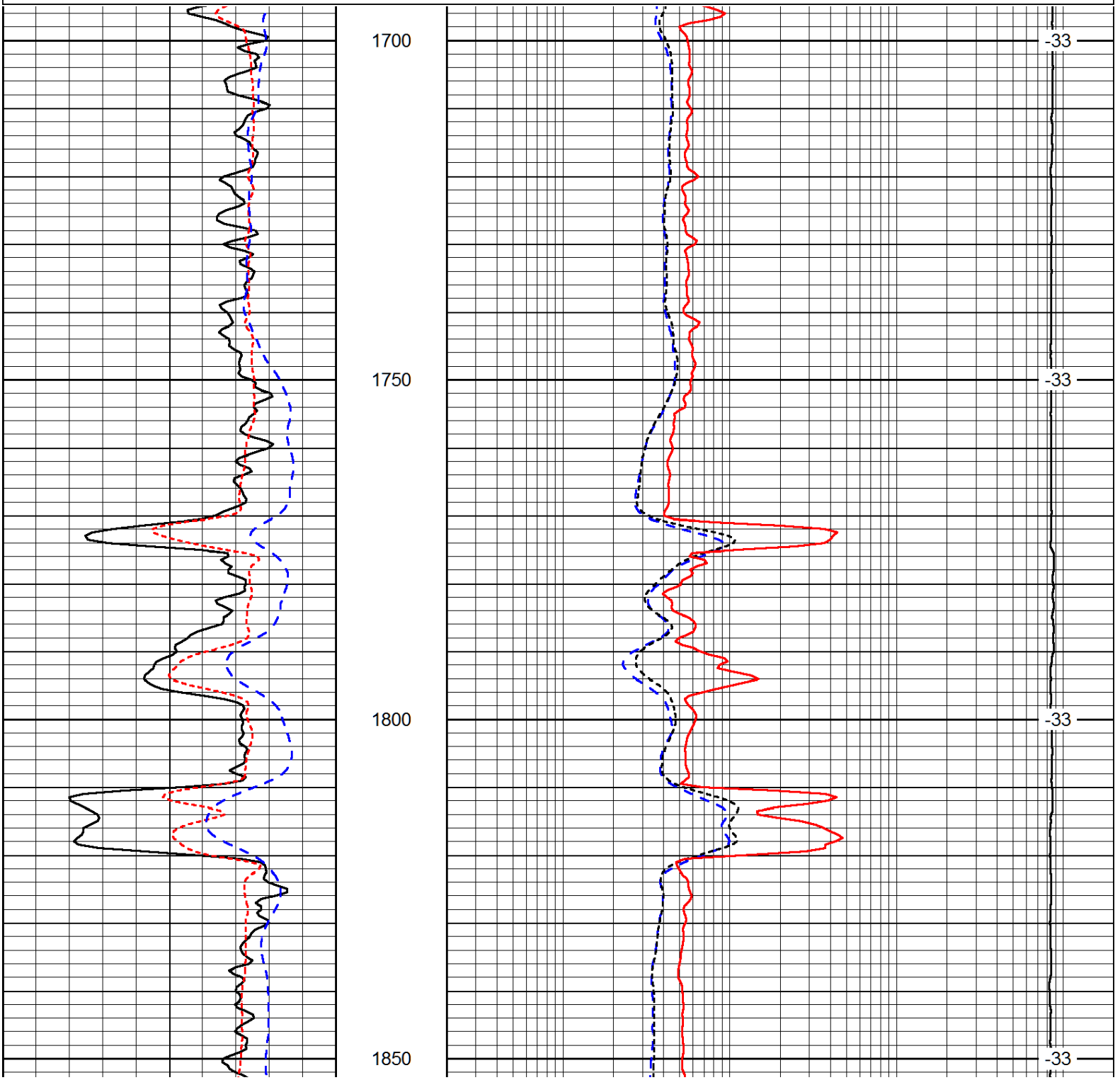
50	Deep Resistivity (Ohm-m)	500

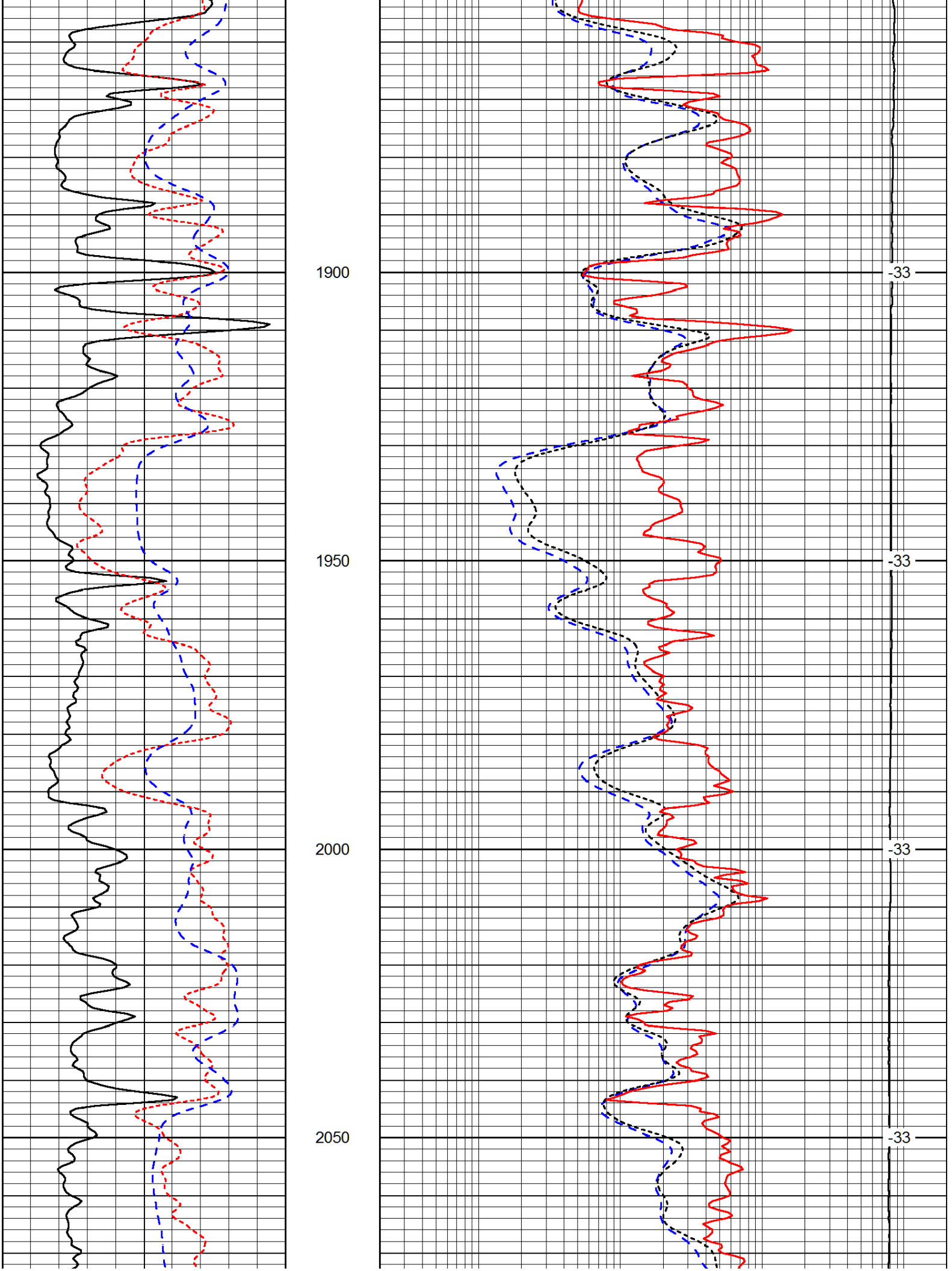
Database File:	k_bar_hawk_15hd.db
Dataset Pathname:	DIL/kbarstk
Presentation Format:	dil
Dataset Creation:	Sat Jan 18 17:55:18 2014
Charted by:	Depth in Feet scaled 1:240

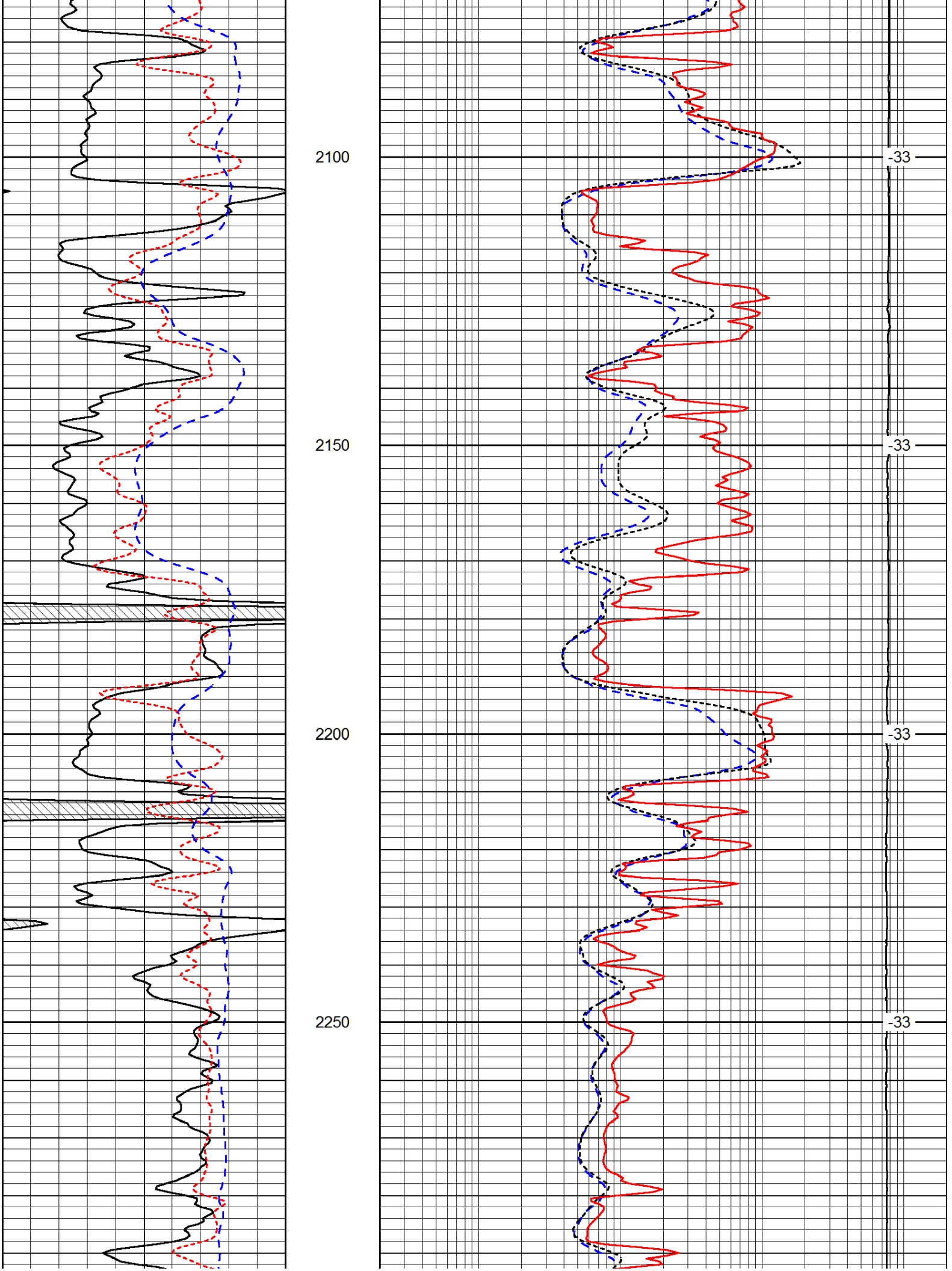
0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

LSPD (ft/min)




1900
1950
2000
2050
-33
-33
-33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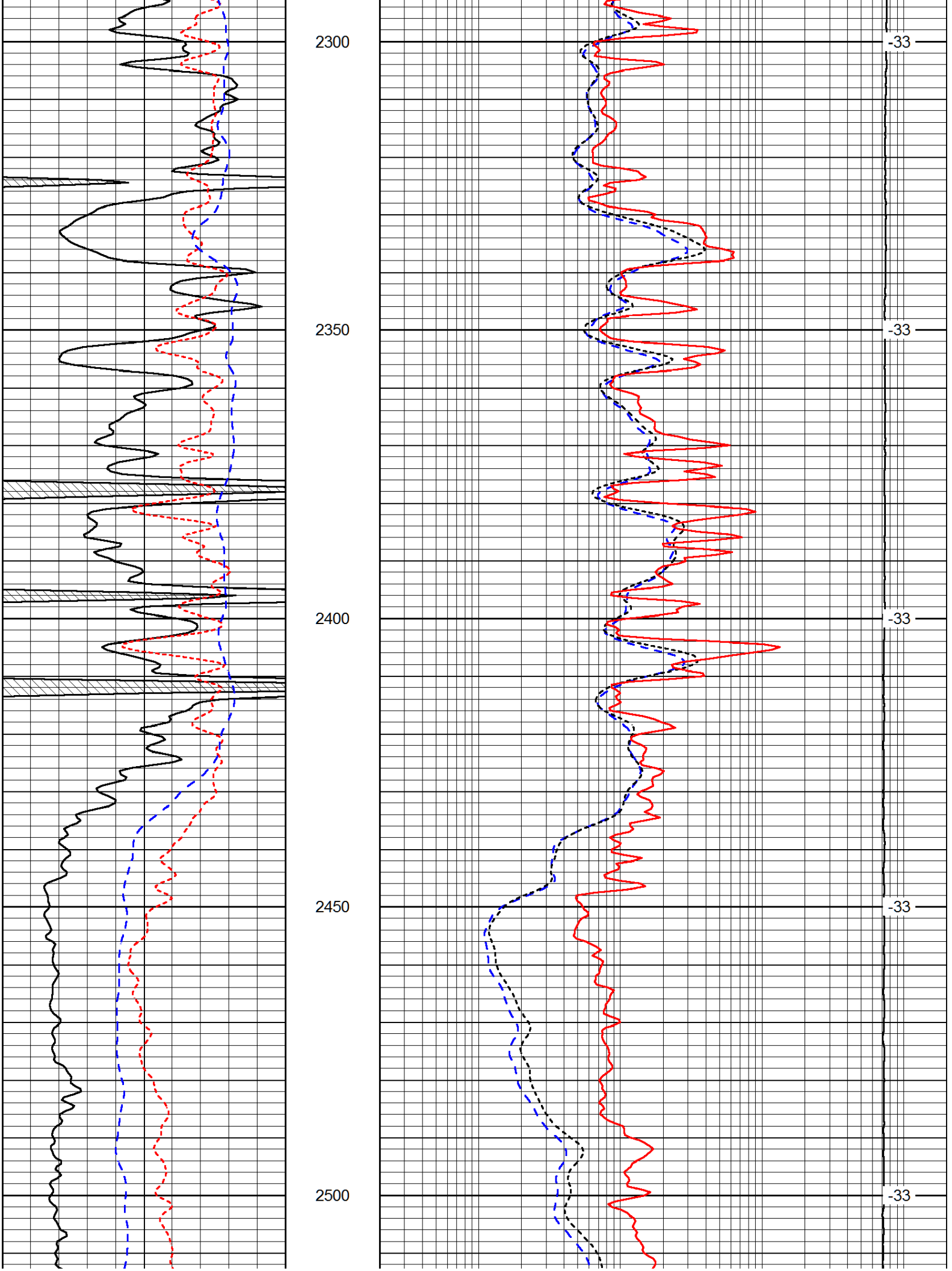
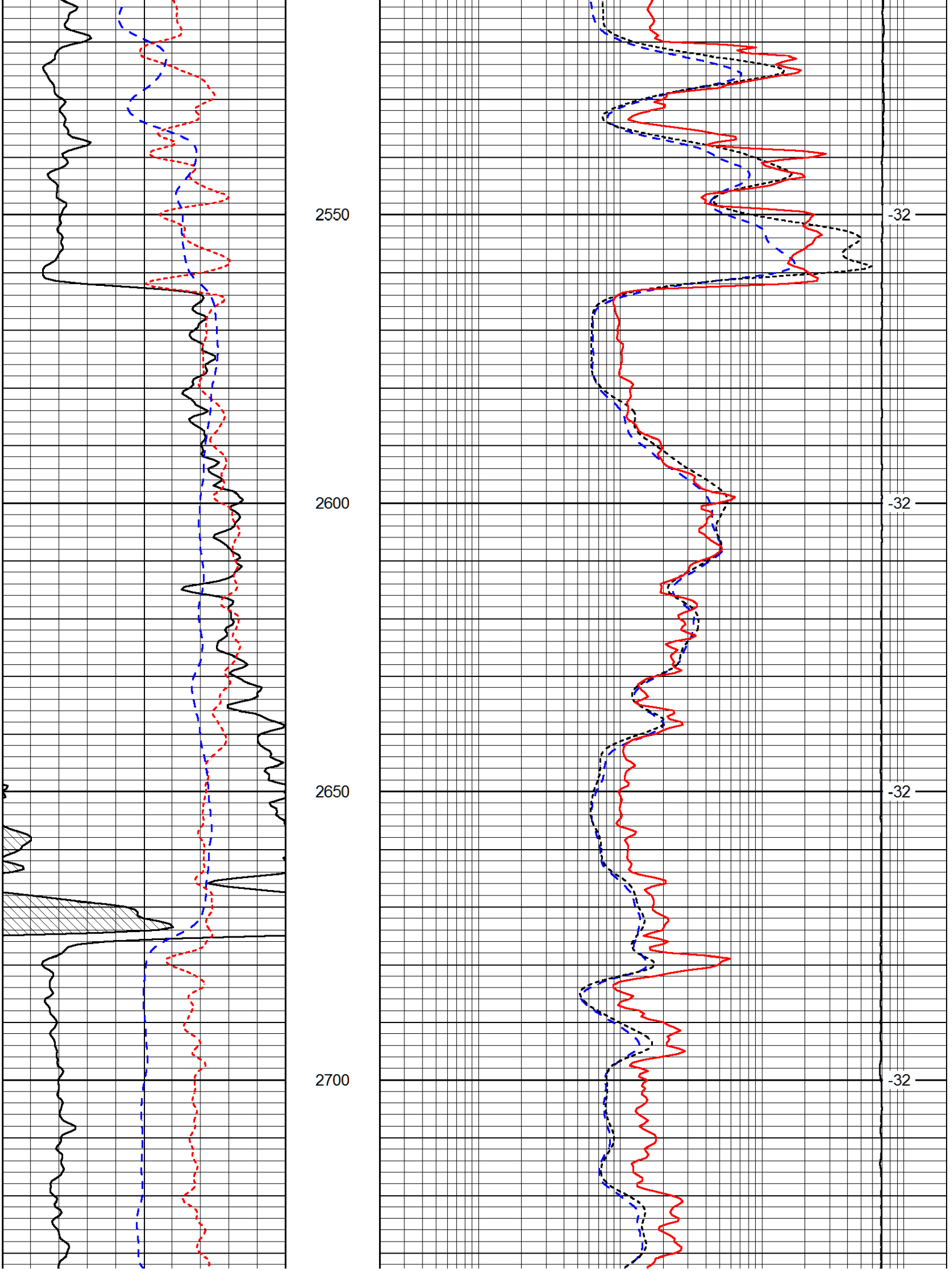
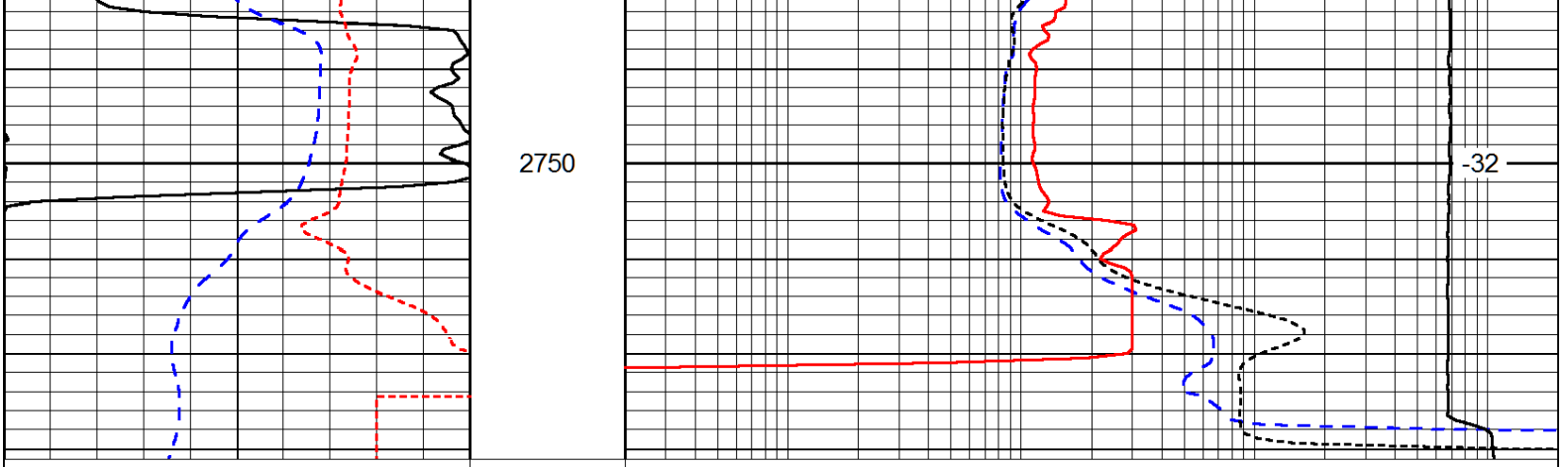
2150
2200
2250
-33
-33
-33
-33


2300
2350
2400
2450
2500
-33
-33
-33
-33
-33


2550
2600
2650
2700
-32
-32
-32
-32



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-160	RXO/RT	40
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

LSPD
(ft/min)