PIONEER

Pioneer Energy Services

Radiation Guard Log

API No. 15-065-24019-00-00

Company Spiral Energy Corp.

Well Kuehnl #4

Field Cooper

County Graham State Kansas

Location 500' FSL & 1800' FWL

Sec: 34 Twp: 9S Rge: 21W

Other Services: MEL

Elevation: K.B. 2331, D.F. , G.L. 2321

Permanent Datum	Ground Level	Elevation 2321	
Log Measured From	Kelly Bushing	10 Ft. Above Perm. Datum	
Drilling Measured From	Kelly Bushing		
Date	4/12/2014		
Run Number	One		
Depth Driller	3953		
Depth Logger	3955		
Bottom Logged Interval	3954		
Top Log Interval	200		
Casing Driller	8.625 @ 225		
Casing Logger	224		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	1200		
Density / Viscosity	9.2 54		
pH / Fluid Loss	10.5 6.0		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.98 @ 56		
Rmf @ Meas. Temp	0.74 @ 56		
Rmc @ Meas. Temp	1.32 @ 56		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.47 @ 118		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	118		
Equipment Number	91		
Location	Hays		
Recorded By	D. Schmidt		
Witnessed By	Bill Robinson		

<<< Fold Here >>>

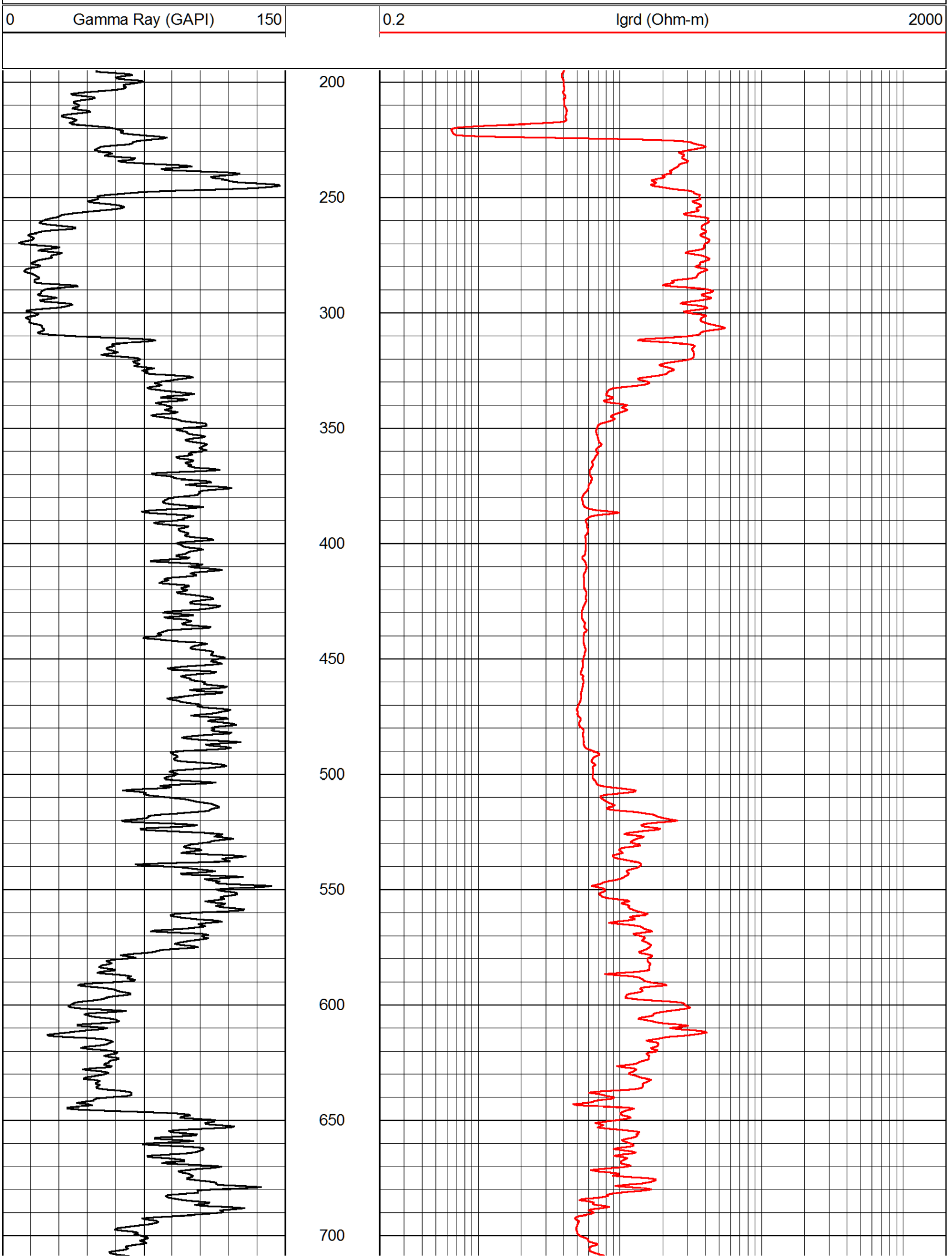
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

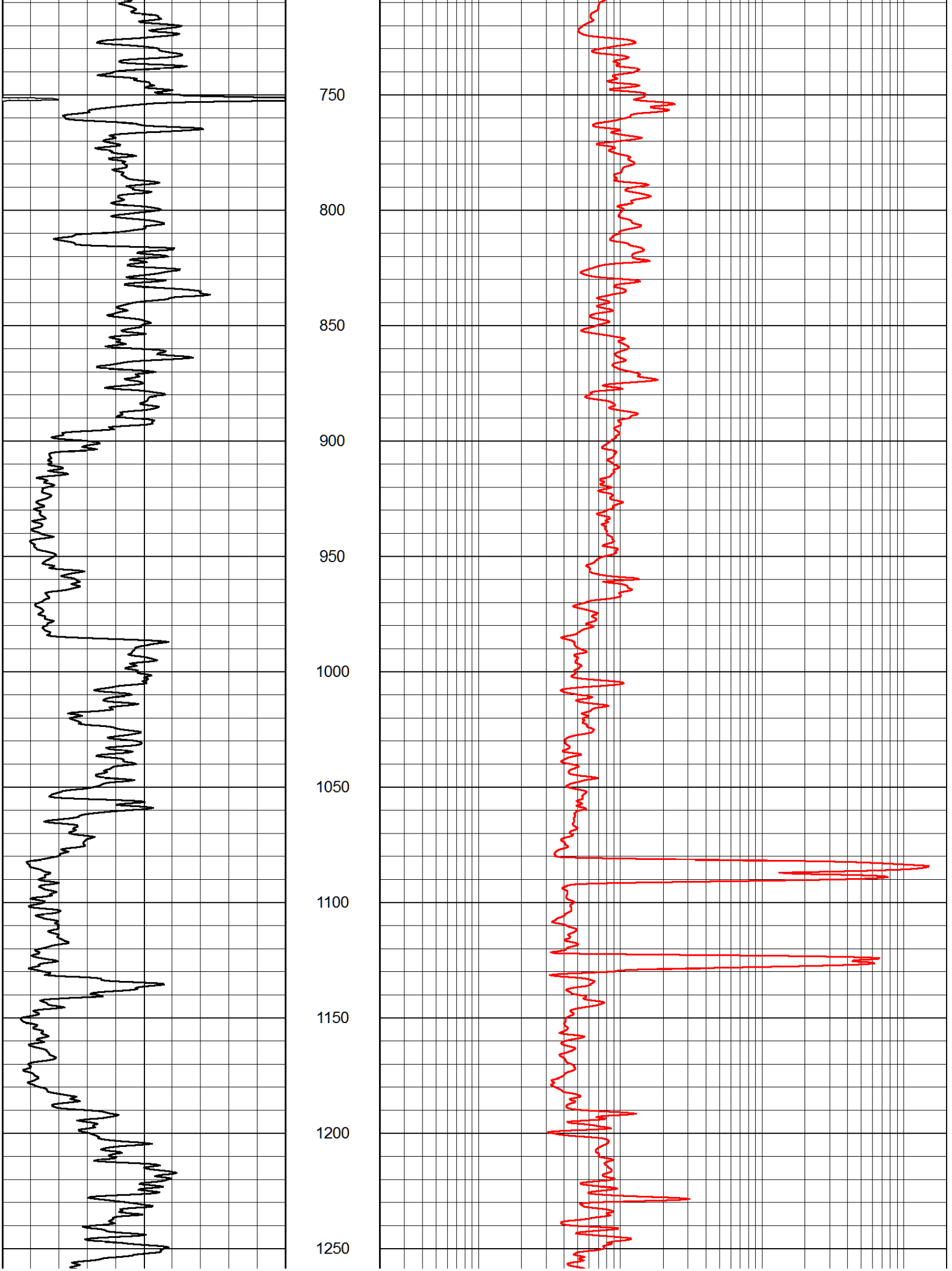
Comments

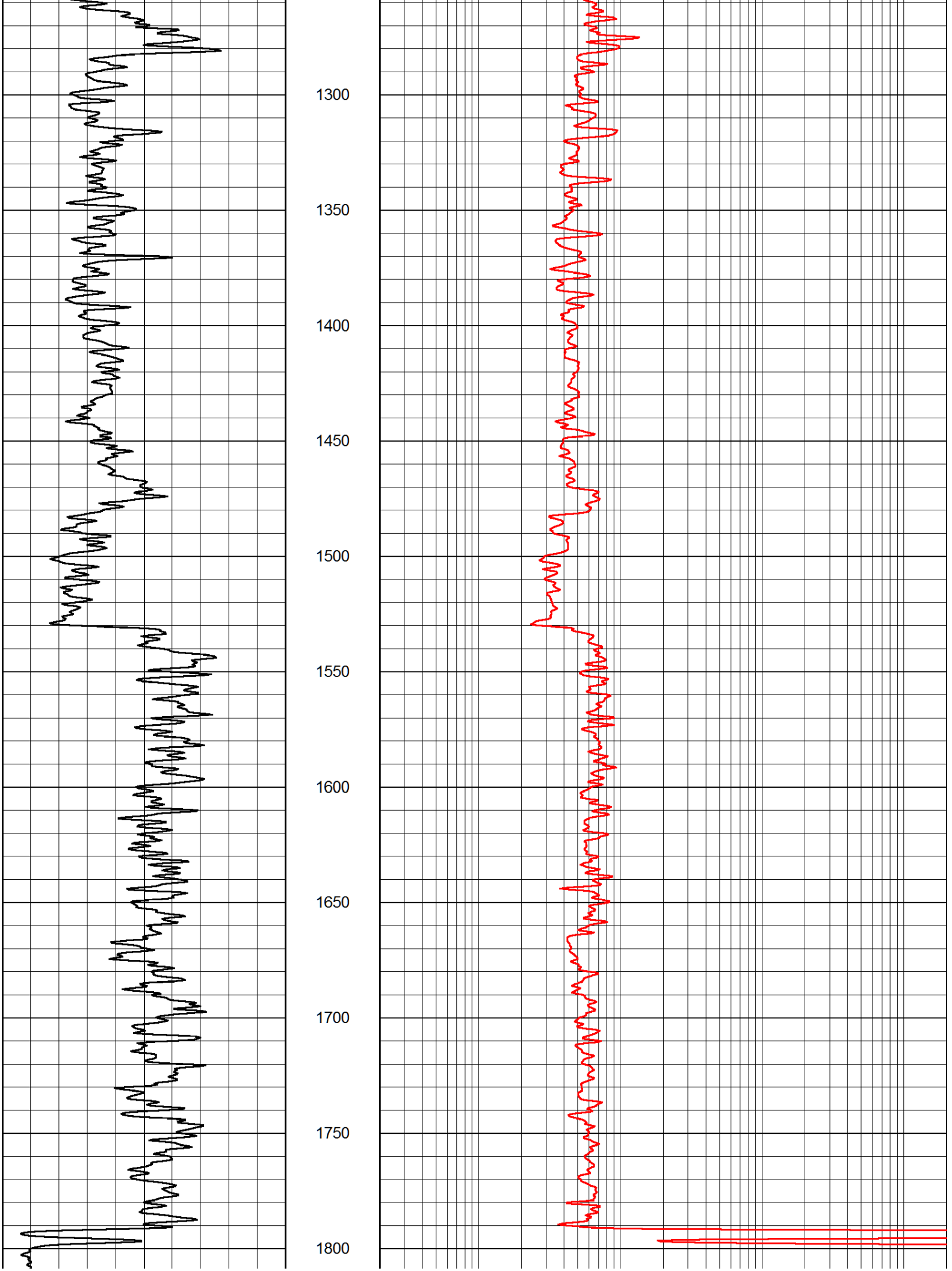
Thank you for using Log-Tech, Inc.
(785) 625-3858

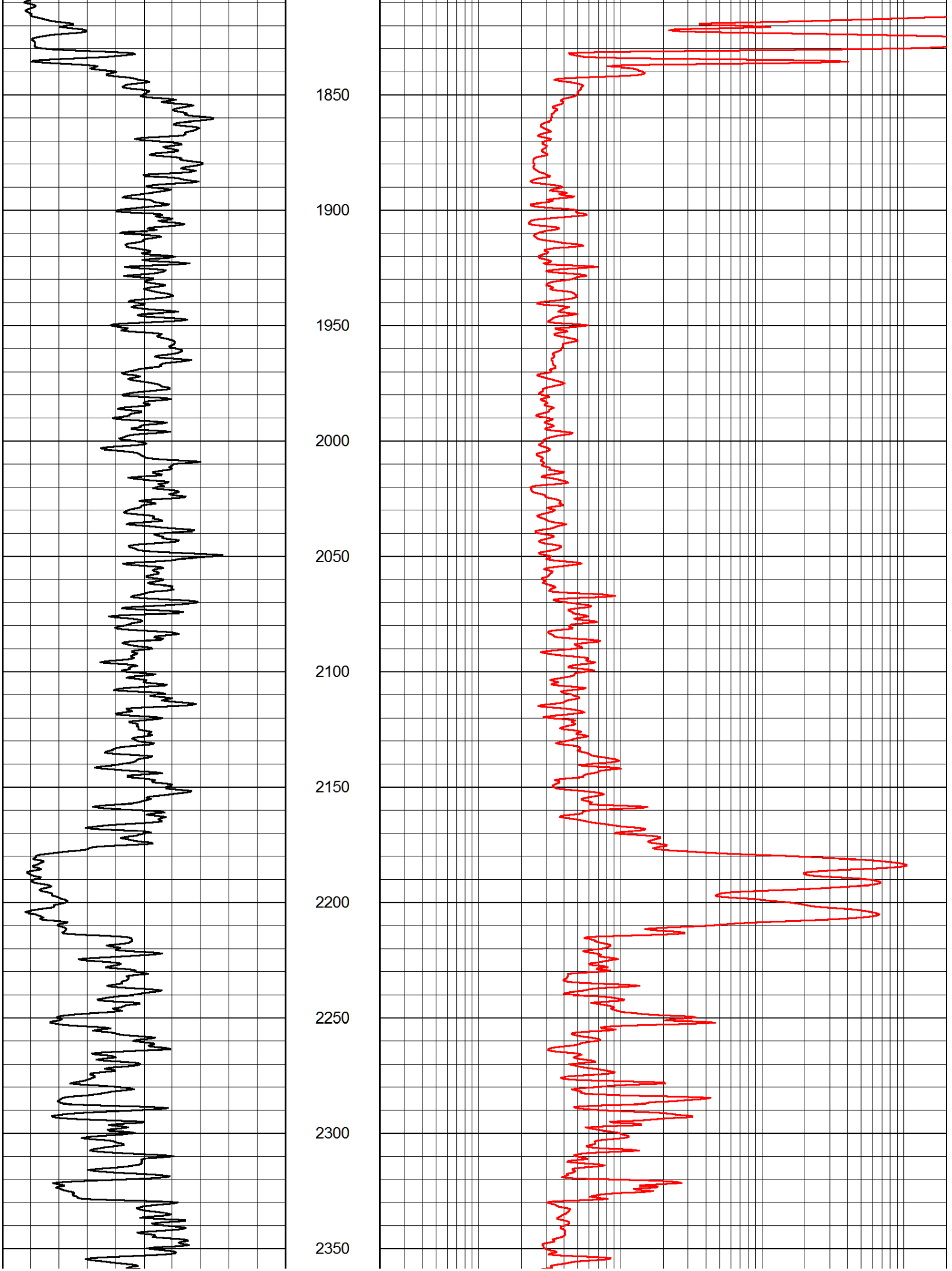
Palco,
South to X Rd,
4 West to Red Line Church, 1 South, 1/2 West,
North into

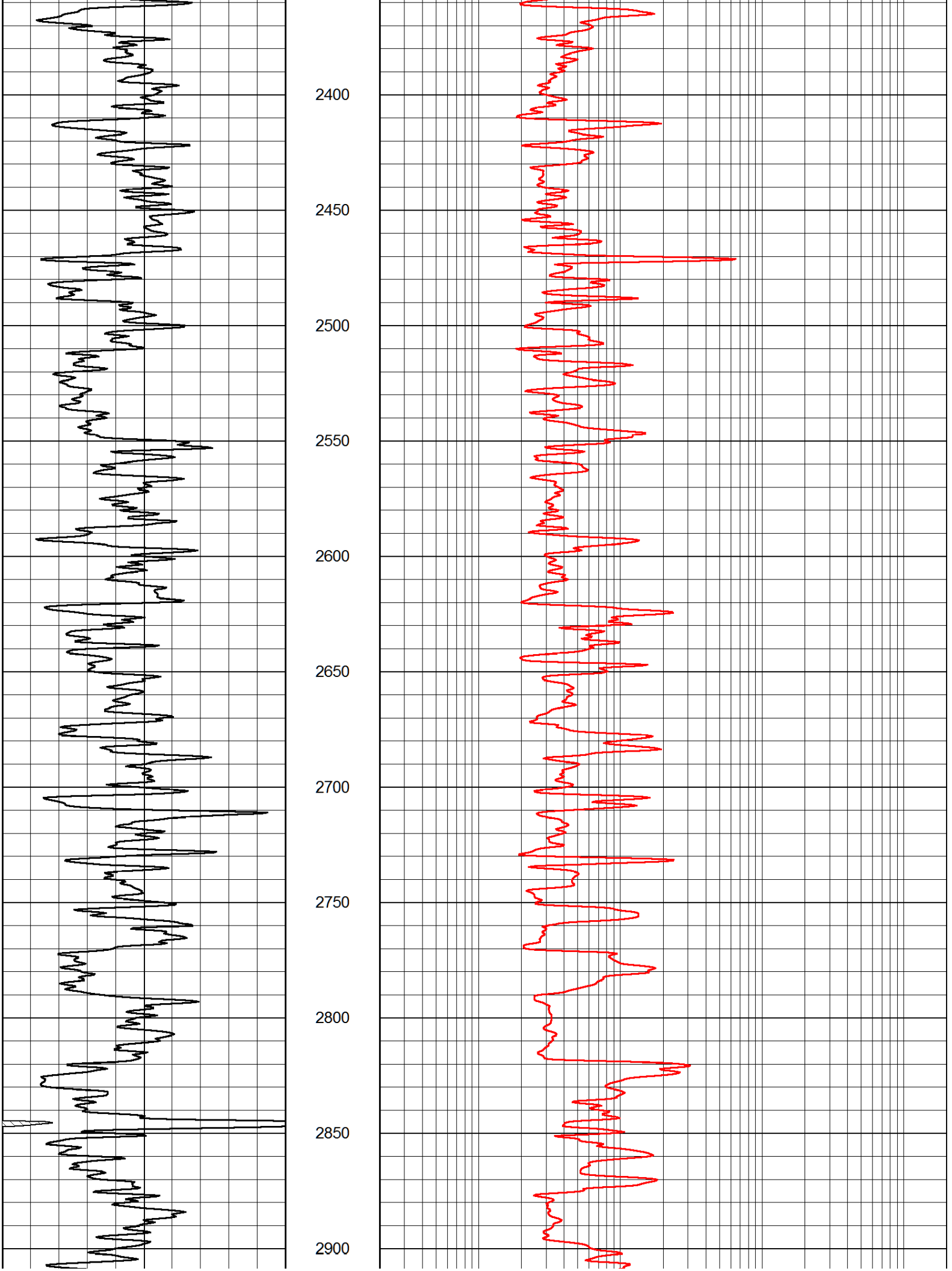
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Presentation Format:	rag2in
Dataset Creation:	Sat Apr 12 12:14:12 2014
Charted by:	Depth in Feet scaled 1:600

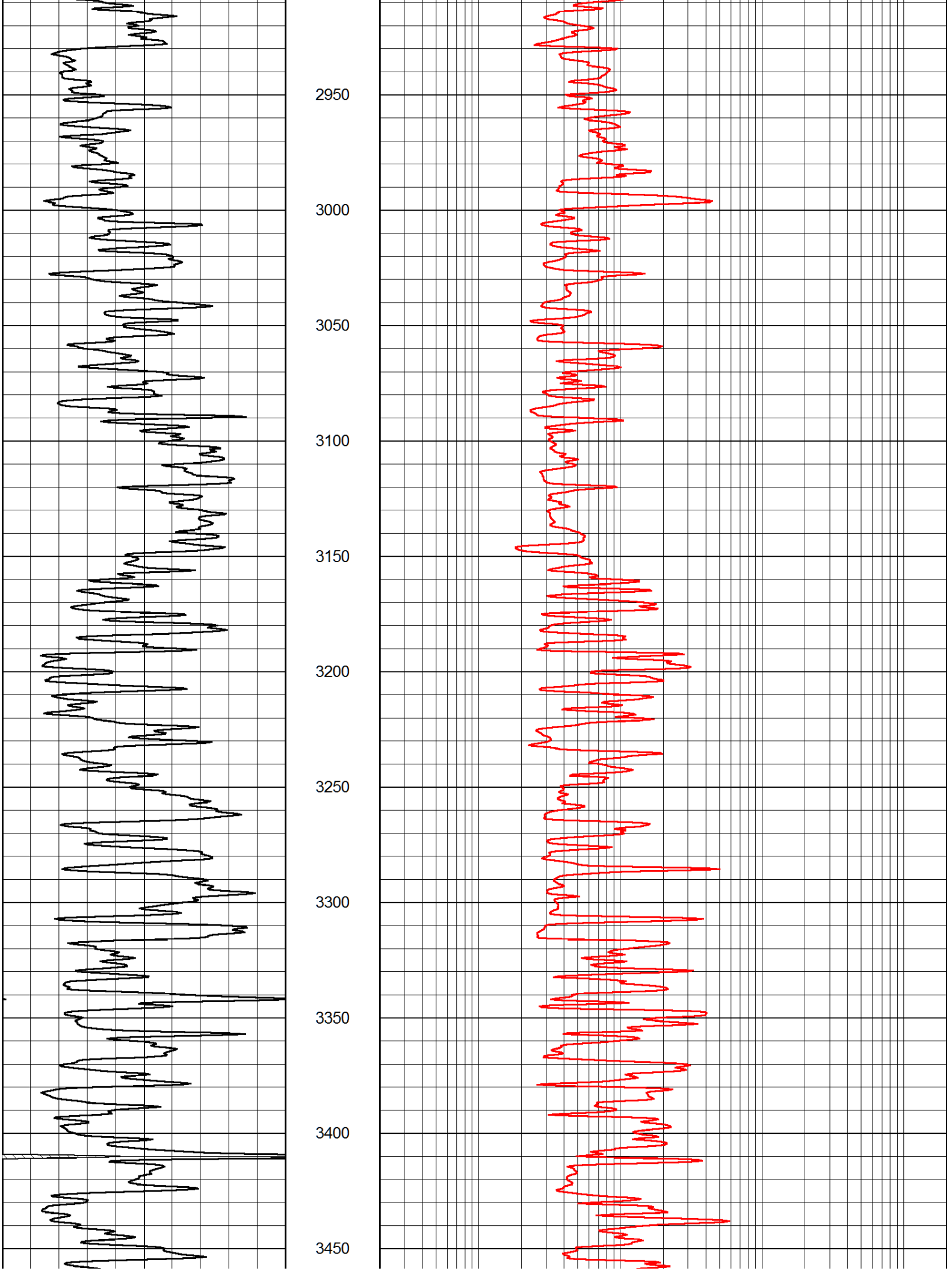

0
Gamma Ray (GAPI)
150
0.2
lgrd (Ohm-m)
2000
200
250
300
350
400
450
500
550
600
650
700

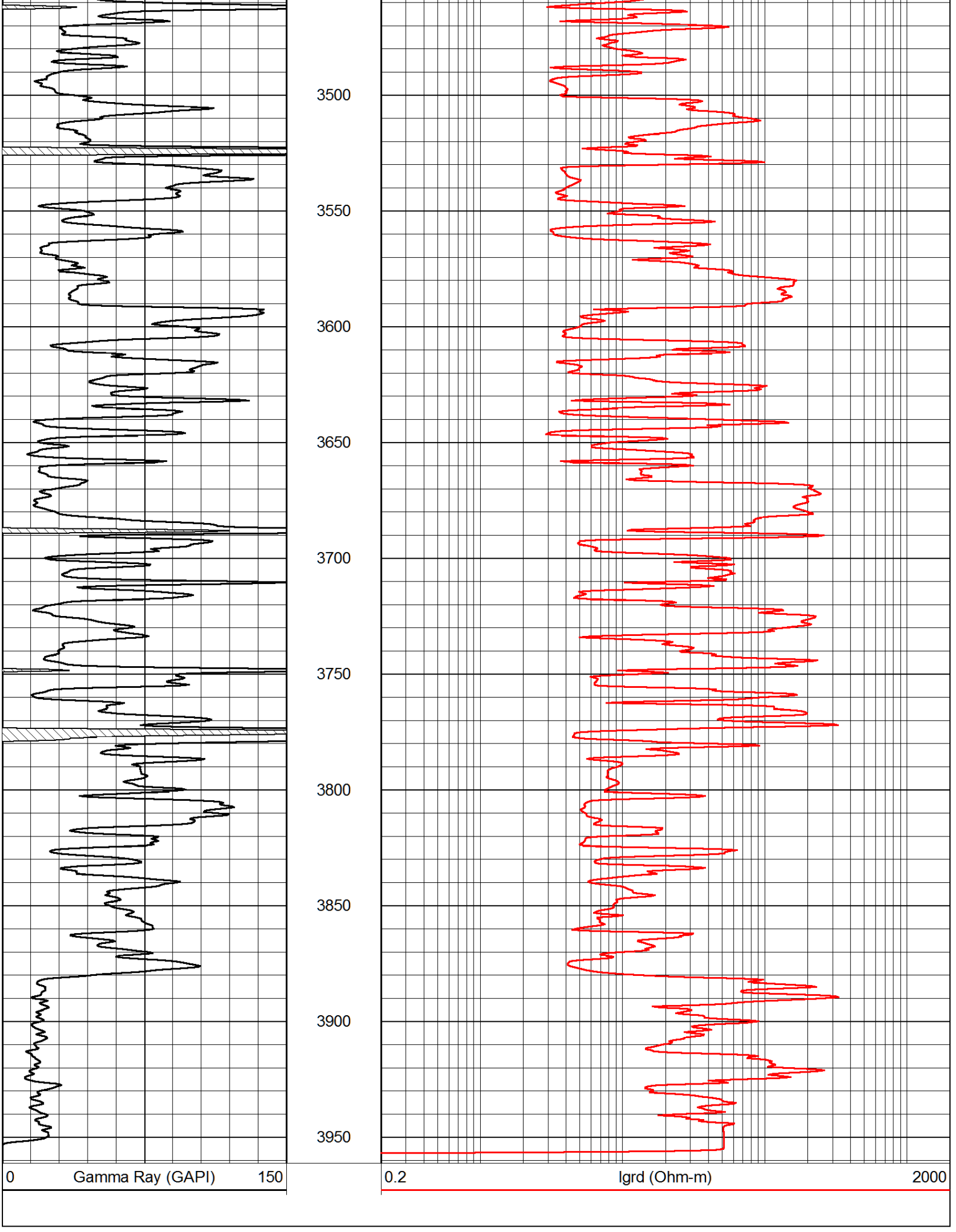

750
800
850
900
950
1000
1050
1100
1150
1200
1250


1300
1350
1400
1450
1500
1550
1600
1650
1700
1750
1800


1850
1900
1950
2000
2050
2100
2150
2200
2250
2300
2350


2400
2450
2500
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3300
3350
3400
3450

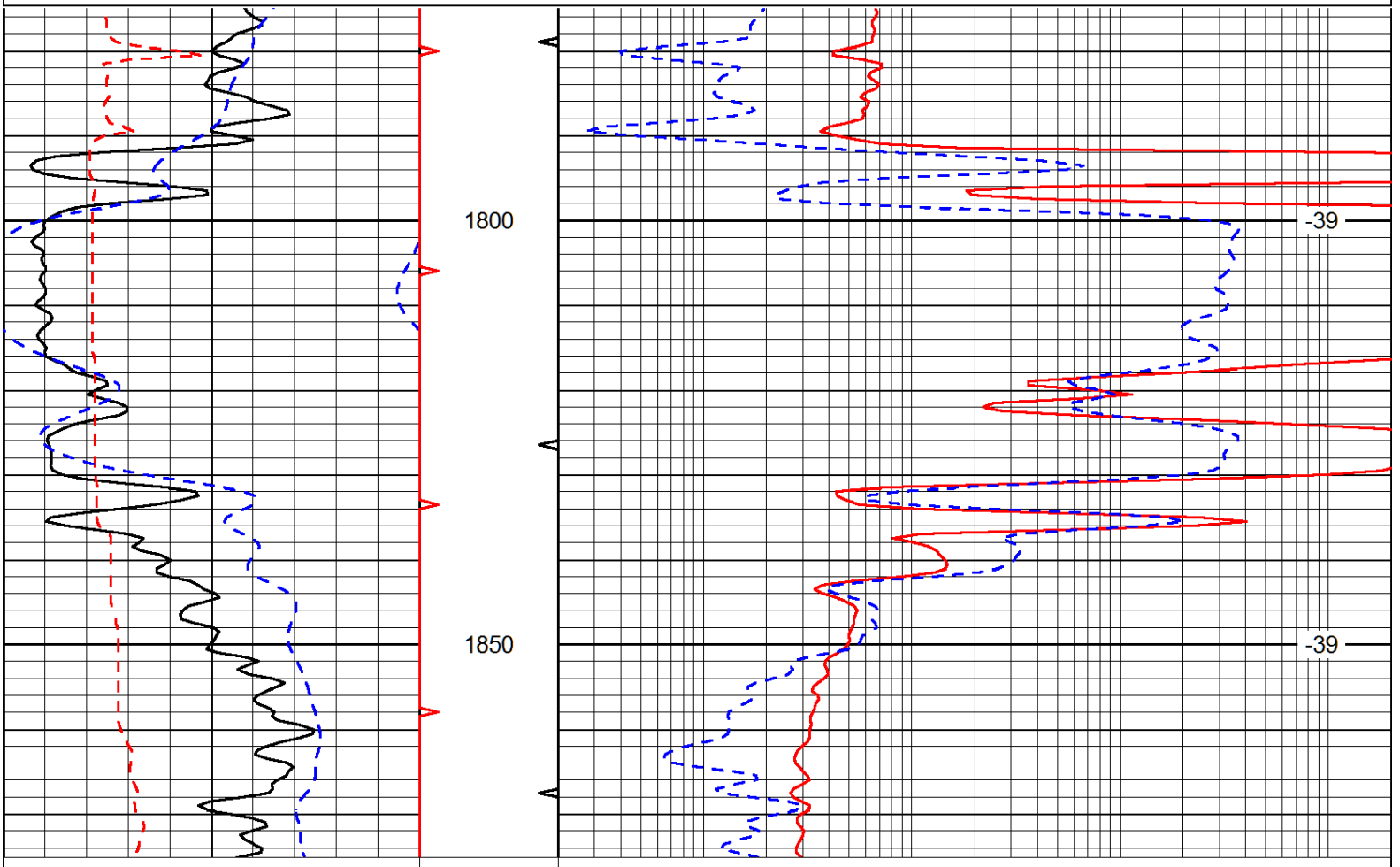

3500
3550
3600
3650
3700
3750
3800
3850
3900
3950
0
Gamma Ray (GAPI)
150
0.2
lgrd (Ohm-m)
2000

Database File: spiral_041214hd.db
Dataset Pathname: rag/spirag
Presentation Format: rag
Dataset Creation: Sat Apr 12 12:14:12 2014
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
6	SCAL (in)	16
-200	sp (mV)	0
0	RWA (Ohm-m)	0.5

0.2	LGRD (Ohm-m)	2000
560	SWNC (NAPI)	2160
15000	Line Tension (lb)	0

LSPD (ft/min)



0	Gamma Ray (GAPI)	150
6	SCAL (in)	16
-200	sp (mV)	0
0	RWA (Ohm-m)	0.5

0.2	LGRD (Ohm-m)	2000
560	SWNC (NAPI)	2160
15000	Line Tension (lb)	0

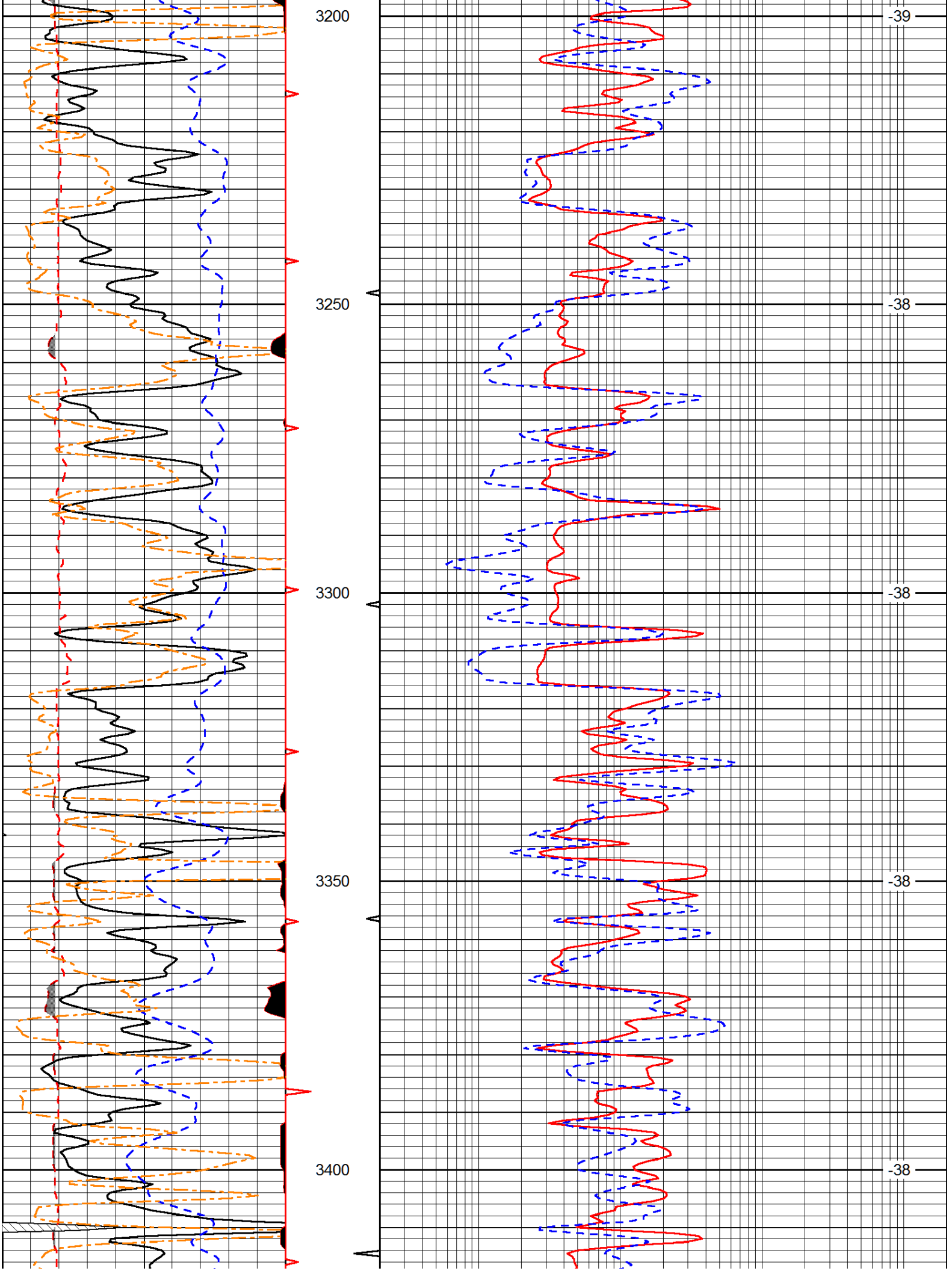
LSPD (ft/min)

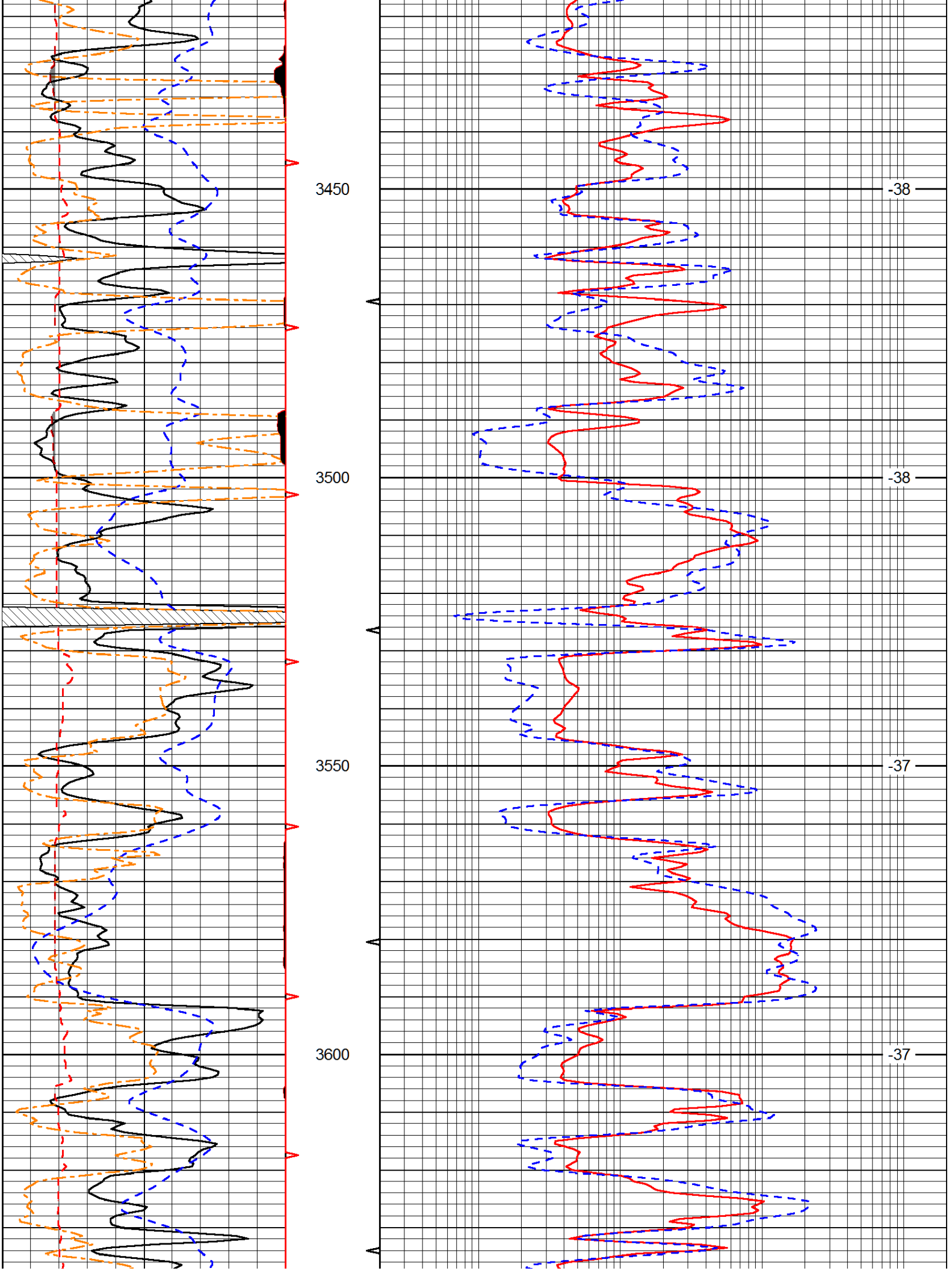
Database File: spiral_041214hd.db
Dataset Pathname: rag/spirag
Presentation Format: rag
Dataset Creation: Sat Apr 12 12:14:12 2014
Charted by: Depth in Feet scaled 1:240

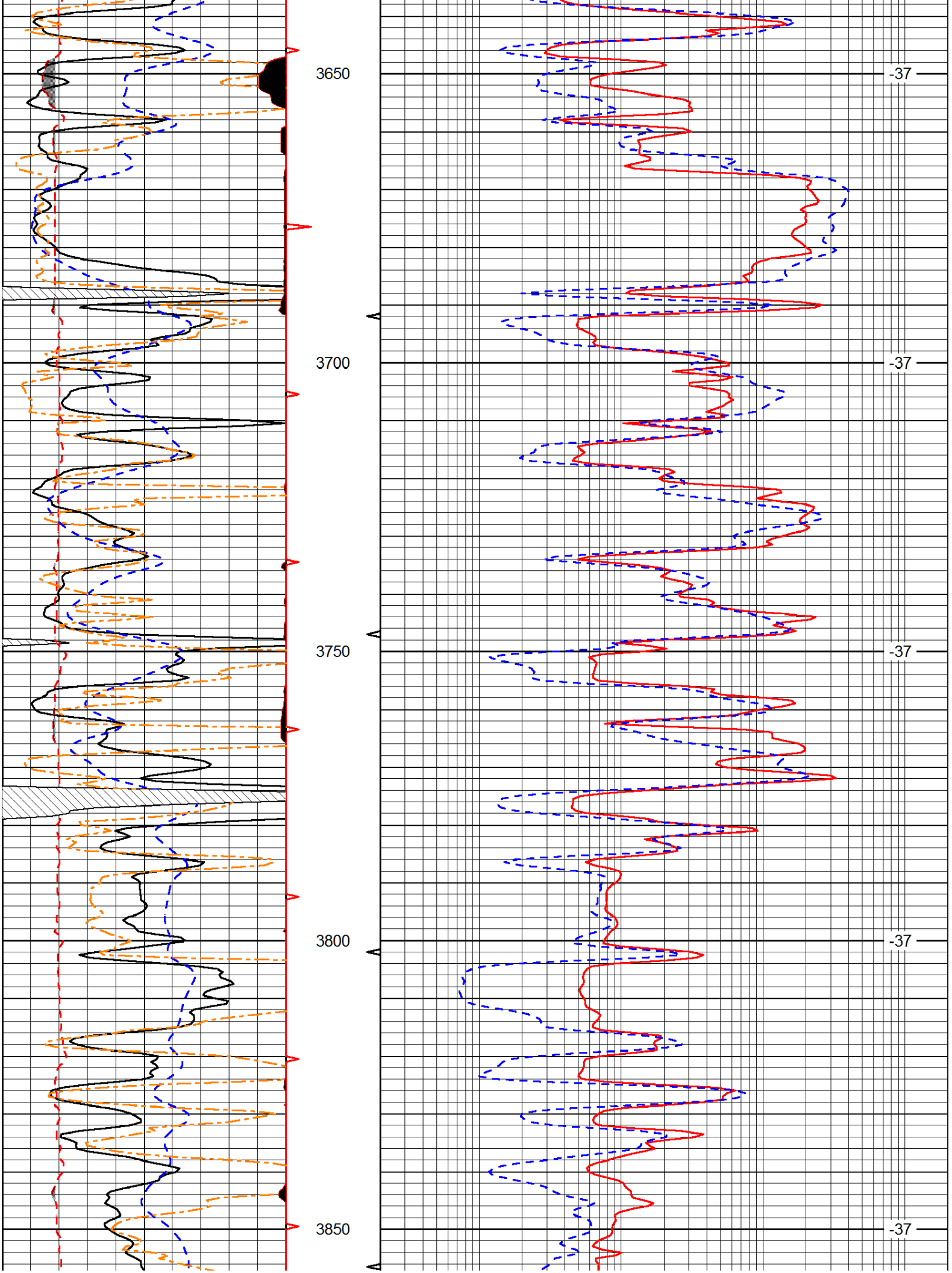
0	Gamma Ray (GAPI)	150
6	SCAL (in)	16
-200	sp (mV)	0
0	RWA (Ohm-m)	0.5

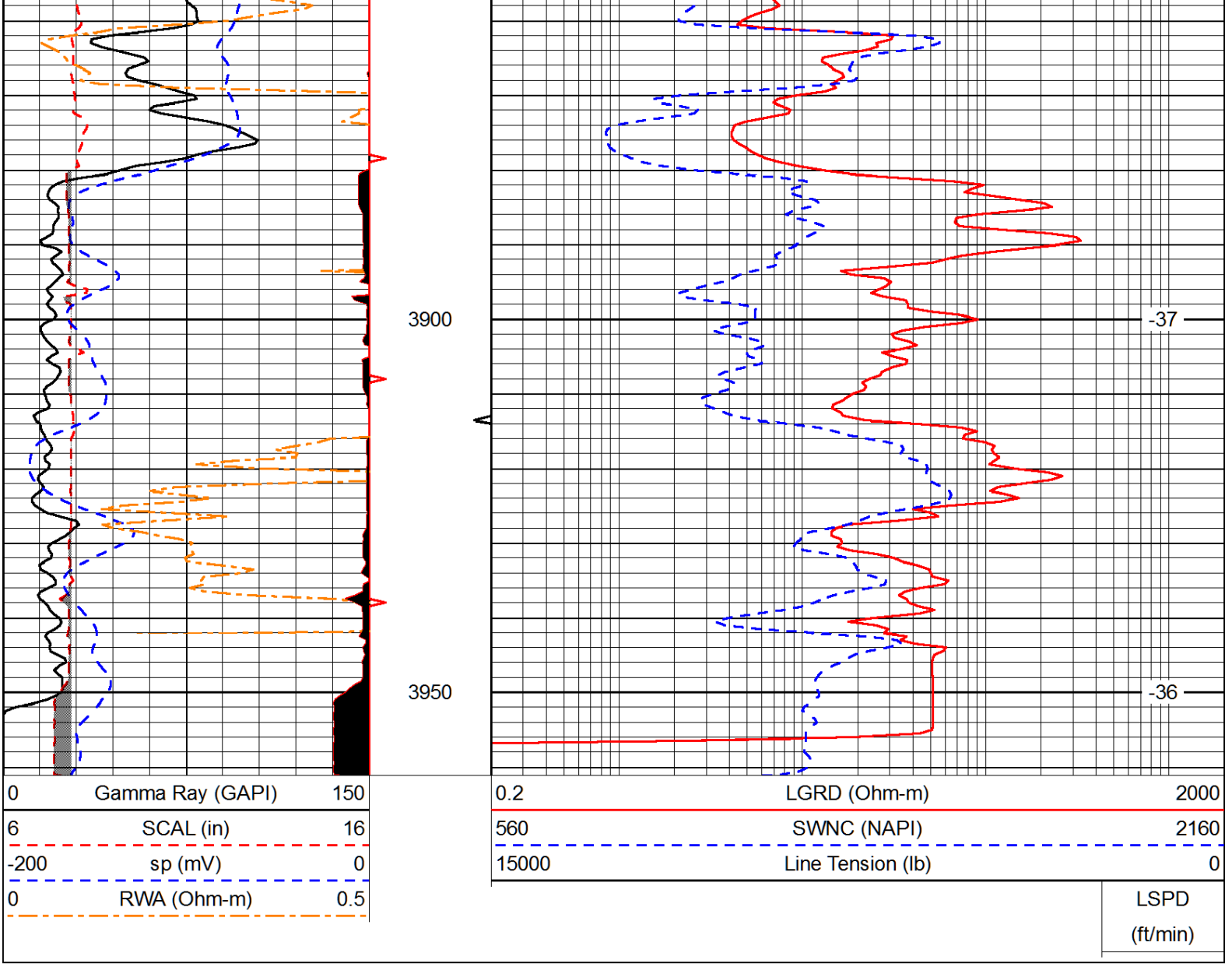
0.2	LGRD (Ohm-m)	2000
560	SWNC (NAPI)	2160
15000	Line Tension (lb)	0

LSPD (ft/min)


3200
3250
3300
3350
3400
-39
-38
-38
-38
-38


3450
3500
3550
3600
-38
-38
-37
-37


3650
3700
3750
3800
3850
-37
-37
-37
-37
-37



0	Gamma Ray (GAPI)	150
6	SCAL (in)	16
-200	sp (mV)	0
0	RWA (Ohm-m)	0.5

0.2	LGRD (Ohm-m)	2000
560	SWNC (NAPI)	2160
15000	Line Tension (lb)	0

LSPD (ft/min)