PIONEER

Pioneer Energy Services

Microresistivity Log

API No.	
15-179-21,322-00-00	

Company	Dan Haffner		
Well	Haffner No.2-18		
Field			
County	Sheridan	State	Kansas

Location: 2125' FSL & 1170' FWL

Sec: 18 Twp: 9S Rge: 27W

Other Services: CNL/CDL, DIL

Permanent Datum	Ground Level	Elevation 2756	
Log Measured From	Kelly Bushing	8	Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing		

Elevation: K.B. 2764; D.F.; G.L. 2756

Date	12/11/2012			
Run Number	Two			
Depth Driller	4491			
Depth Logger	4494			
Bottom Logged Interval	4493			
Top Log Interval	3500			
Casing Driller	8.625 @ 264			
Casing Logger	261			
Bit Size	7.875			
Type Fluid in Hole	Chemical			
Salinity,ppm CL	1100			
Density / Viscosity	9.6	48		
pH / Fluid Loss	9.0	7.6		
Source of Sample	Flowline			
Rm @ Meas. Temp	1.45 @ 58			
Rmf @ Meas. Temp	1.09 @ 58			
Rmc @ Meas. Temp	1.96 @ 58			
Source of Rmf / Rmc	Charts			
Rm @ BHT	.70 @ 121			
Operating Rig Time	4 Hours			
Max Rec. Temp. F	121			
Equipment Number	15			
Location	Hays			
Recorded By	D.Kerr			
Witnessed By	Richard Bell			

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Comments

Thank you for using Pioneer Energy Services
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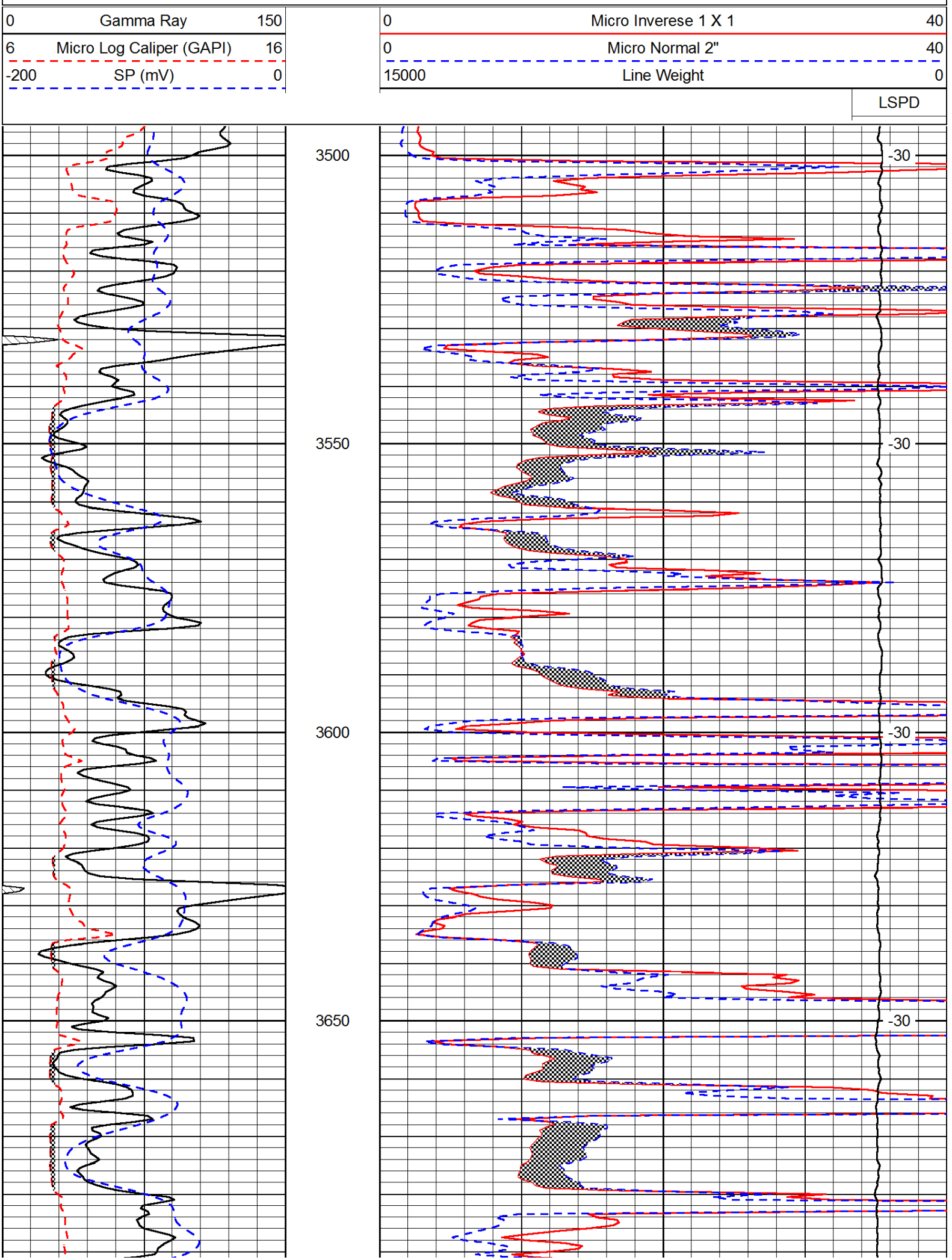
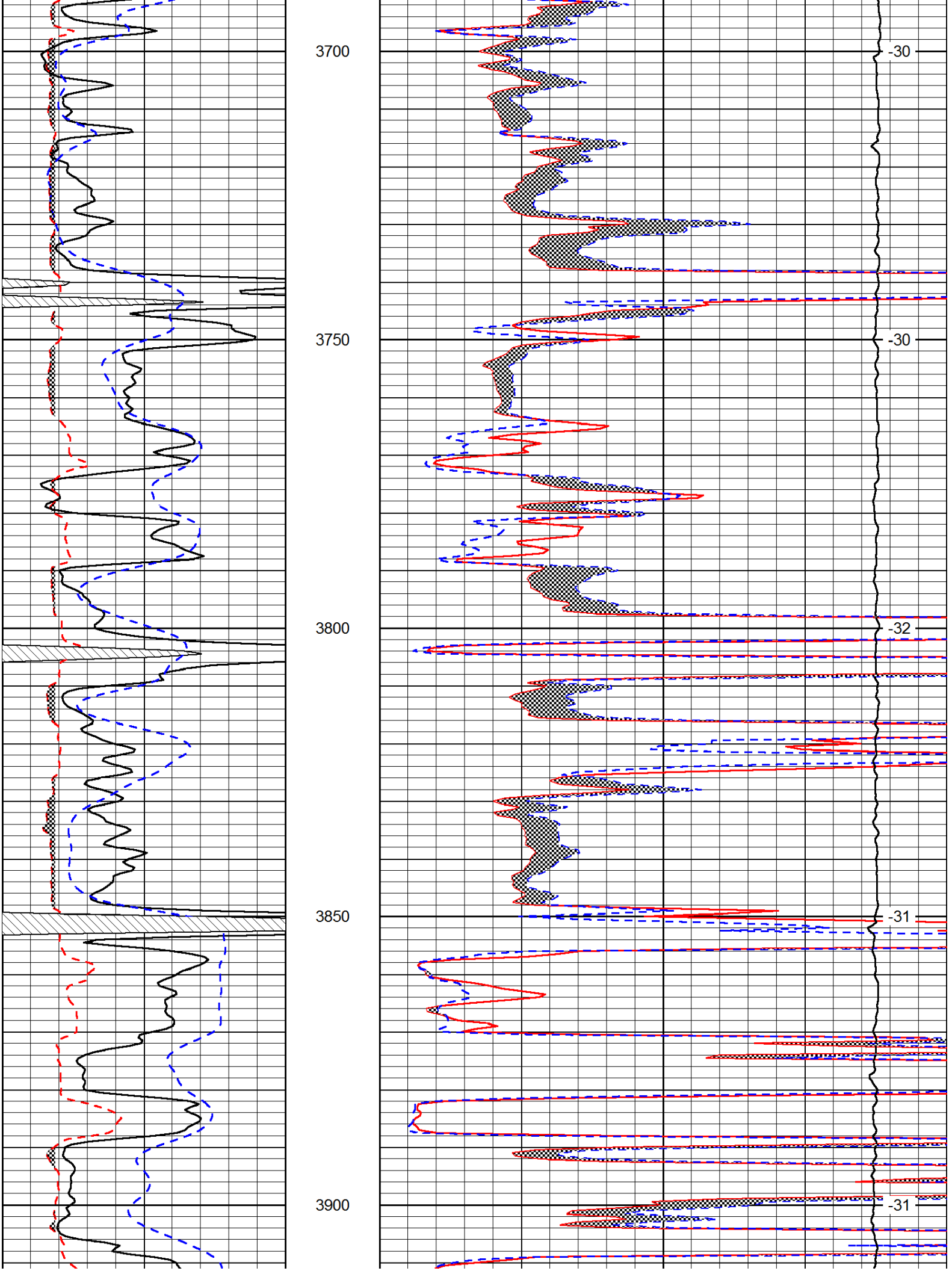
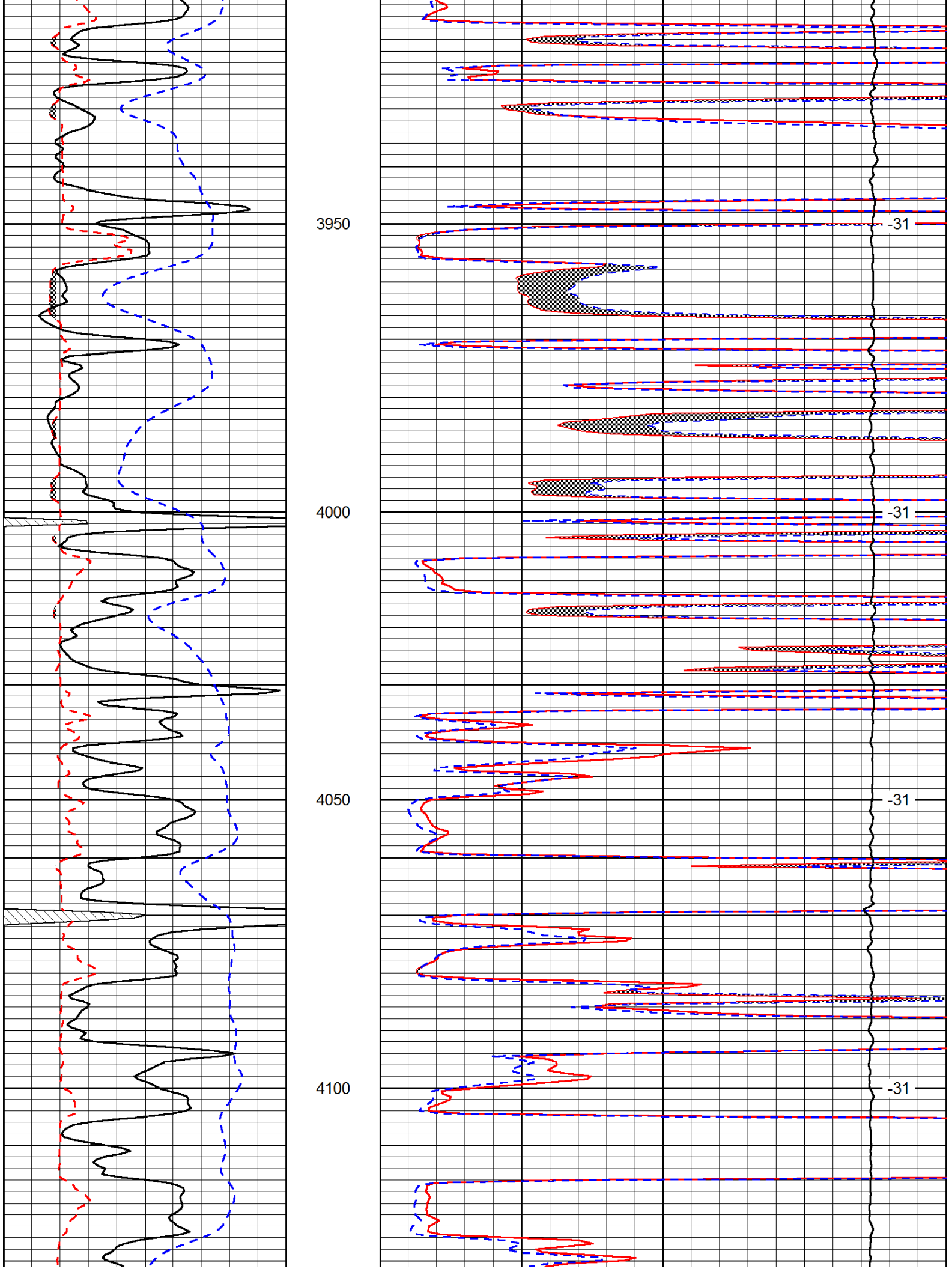
785 625 3858

Hoxie Ks, 6 South to 406 RD (70 S RD),
3 1/2 East, North Into

Database File:	c:\warrior\data\dan haffner_haffner no.2-18\danhaffner_haffner_2_18hd.db
Dataset Pathname:	DIL/hafstk
Presentation Format:	micro
Dataset Creation:	Tue Dec 11 23:22:14 2012
Charted by:	Depth in Feet scaled 1:240


0 Gamma Ray 150
6 Micro Log Caliper (GAPI) 16
-200 SP (mV) 0
0 Micro Inverese 1 X 1 40
0 Micro Normal 2" 40
15000 Line Weight 0
LSPD
3500
3550
3600
3650
-30
-30
-30
-30


3700
3750
3800
3850
3900
-30
-30
-32
-31
-31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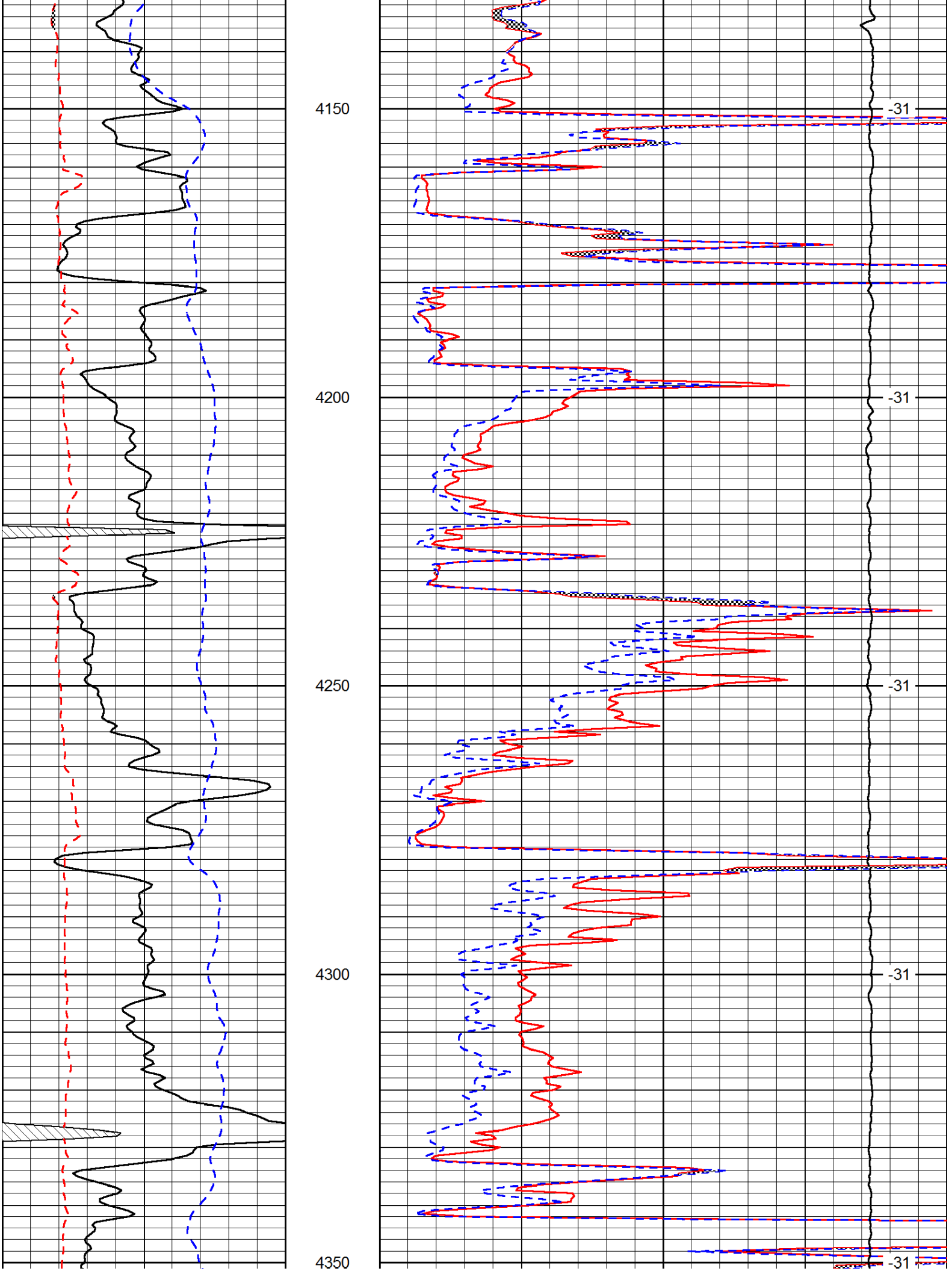
4000
4050
4100
-31
-31
-31
-31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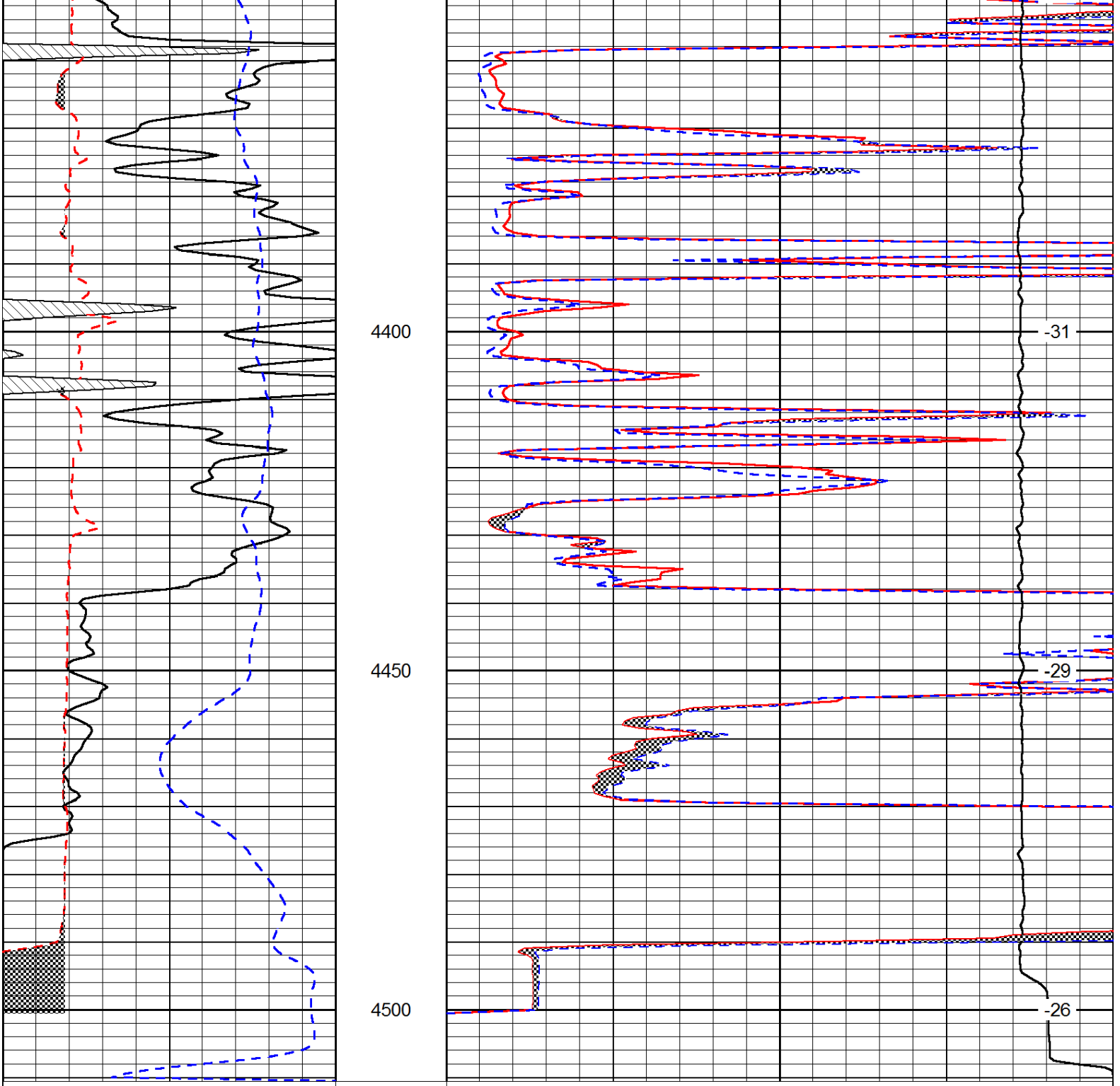
4200
4250
4300
4350
-31
-31
-31
-31
-31


4400
4450
4500
-31
-29
-26
0
Gamma Ray
150
6
Micro Log Caliper (GAPI)
16
-200
SP (mV)
0
0
Micro Inverese 1 X 1
40
0
Micro Normal 2"
40
15000
Line Weight
0
LSPD