

PIONEER
Pioneer Energy Services

**MICRORESISTIVITY
LOG**

Company BEREXCO, LLC		Company BEREXCO, LLC	
Well OWENS NO.3-19		Well OWENS NO.3-19	
Field HOURGLASS		Field HOURGLASS	
County CHEYENNE		County CHEYENNE	
State KANSAS		State KANSAS	
Location: API # : 15-023-21,430-00-00		Other Services	
1980' FNL & 1860' FWL		RAG	
SEC 19 TWP 1S RGE 37W			
Permanent Datum	GROUND LEVEL	Elevation	
Log Measured From	KELLY BUSHING	K.B.	3185
Drilling Measured From	KELLY BUSHING	D.F.	N/A
		G.L.	3174
Date	7/20/2015		
Run Number	TWO		
Depth Driller	4725		
Depth Logger	4727		
Bottom Logged Interval	4726		
Top Log Interval	3500		
Casing Driller	8,625 @ 294		
Casing Logger	294		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL		
Salinity,ppm CL	1,000		
Density / Viscosity	9.3	62	
pH / Fluid Loss	11.0	6.4	
Source of Sample	Flowline		
Rm @ Meas. Temp	1.35 @ 70		
Rmt @ Meas. Temp	1.01 @ 70		
Rmc @ Meas. Temp	1.82 @ 70		
Source of Rmt / Rmc	Charts		
Rm @ BHT	.77 @ 123		
Operating Rig Time	4 HOURS		
Max Rec. Temp. F	123		
Equipment Number	91		
Location	Hays		
Recorded By	C. DESAIRE	D. SCHMIDT	
Witnessed By	BRYAN BYNOG		

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not 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.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

BIRD CITY KS, N TO DD RD, 2 E TO 30 RD,
2 S, W INTO

Log Measured From: KELLY BUSHING 11 Ft. Above Permanent Datum

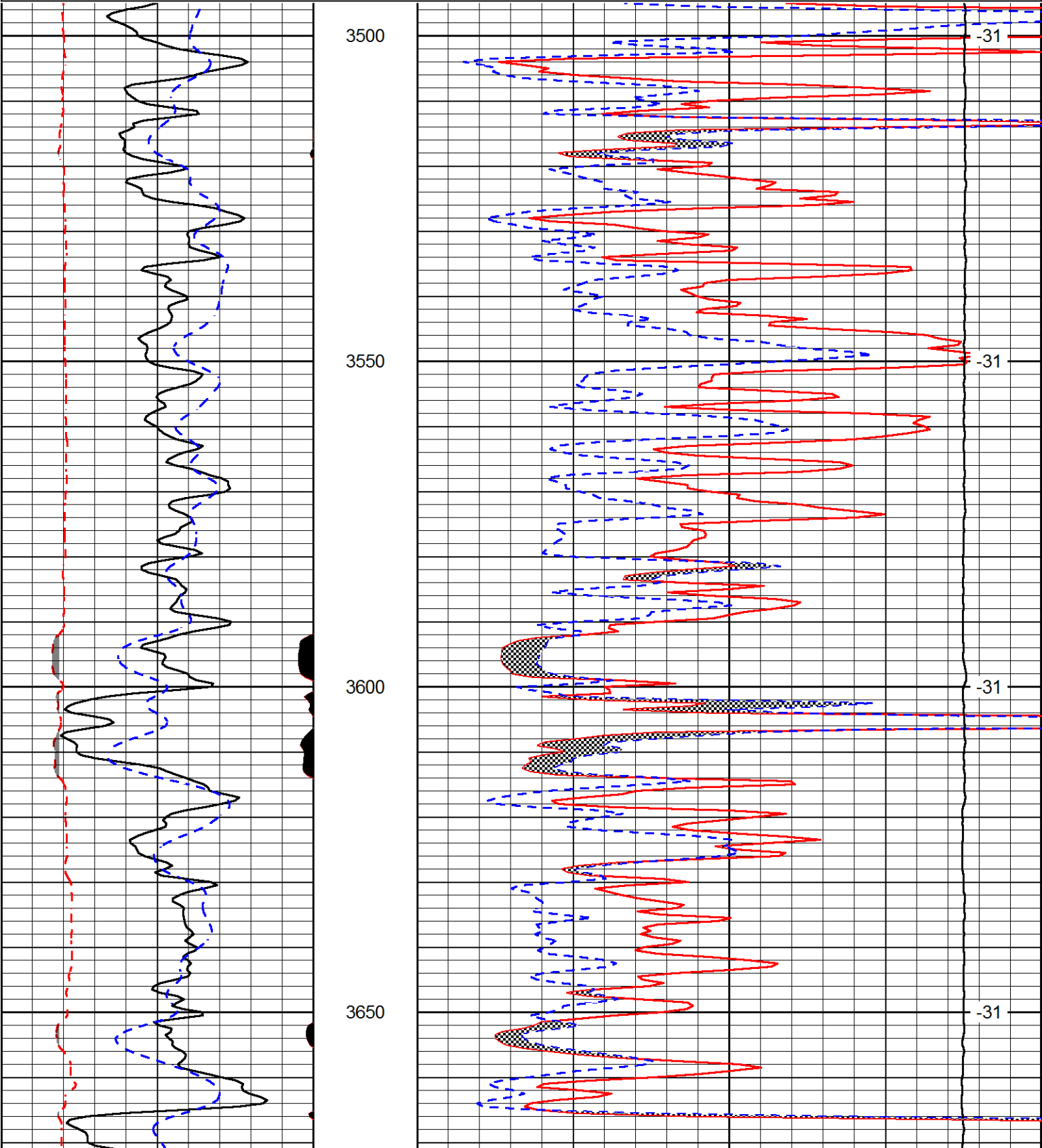
THANK YOU FOR USING PIONEER ENERGY SERVICES

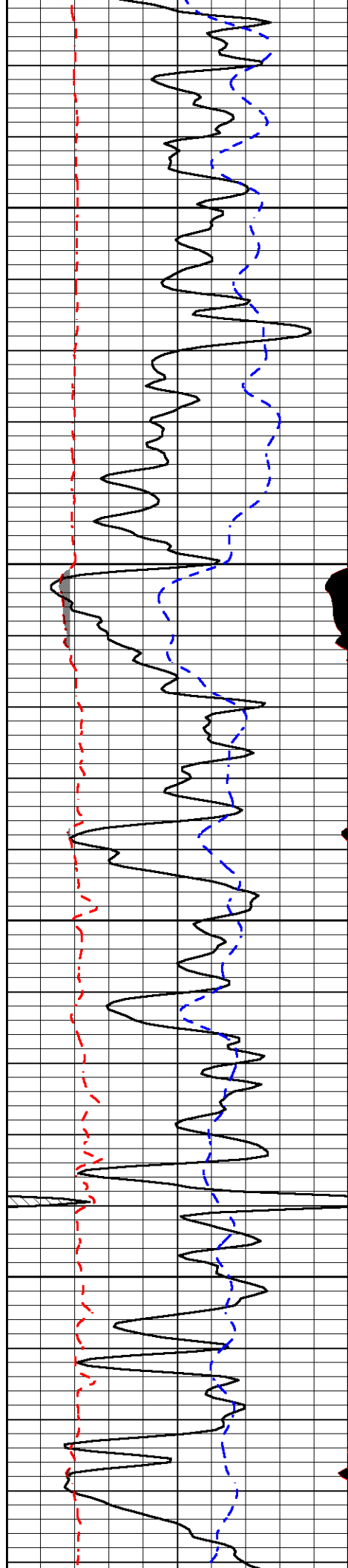
www.pioneerres.com 785-625-3858

Your Pioneer Energy Services Crew Engineer: C. DESAIRE Operator: D. SCHMIDT Operator: Operator:	This Log Record Was Witnessed By Primary Witness: BRYAN BYNOG Secondary Witness: Secondary Witness: Secondary Witness:
---	--

Database File	berhd.db
Dataset Pathname	RAG/berrag
Presentation Format	micro
Dataset Creation	Mon Jul 20 04:22:51 2015
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	0	Micro Inverese 1 X 1 (Ohm-m)	40
6	MCAL (in)	16	0	Micro Normal 2" (Ohm-m)	40
2.875	Mud Cake (in)	7.875	10000	Line Weight (lb)	0
-200	SP (mV)	0			LSPD (ft/min)



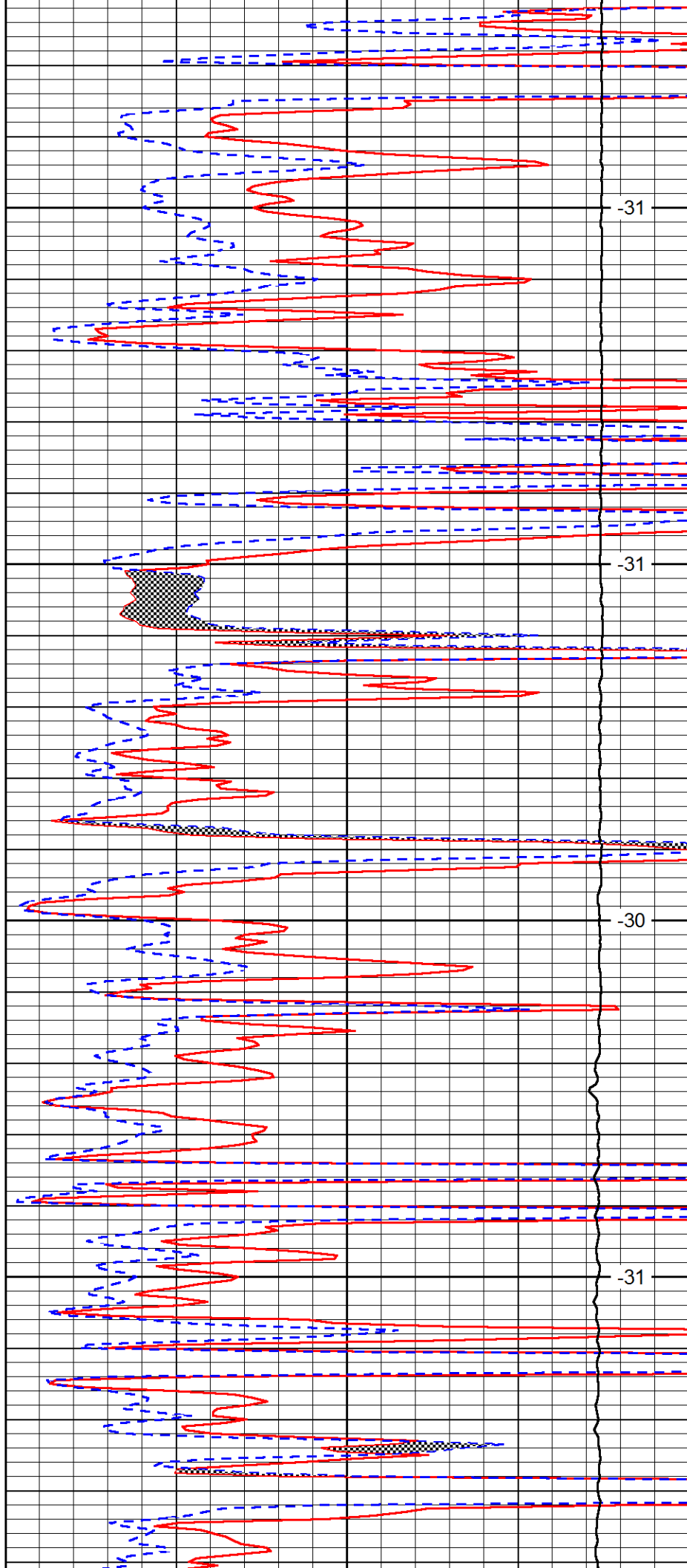


3700

3750

3800

3850

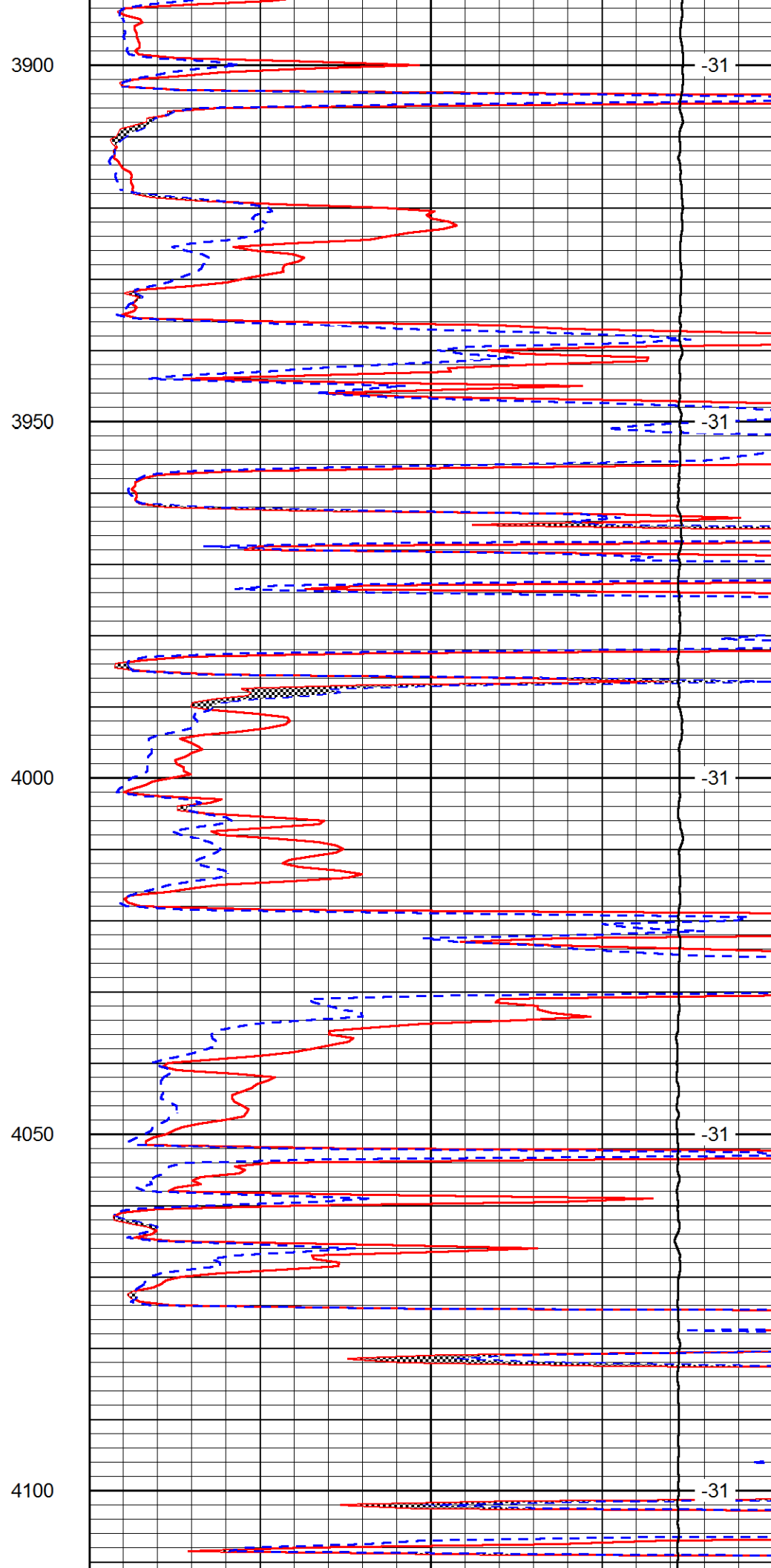
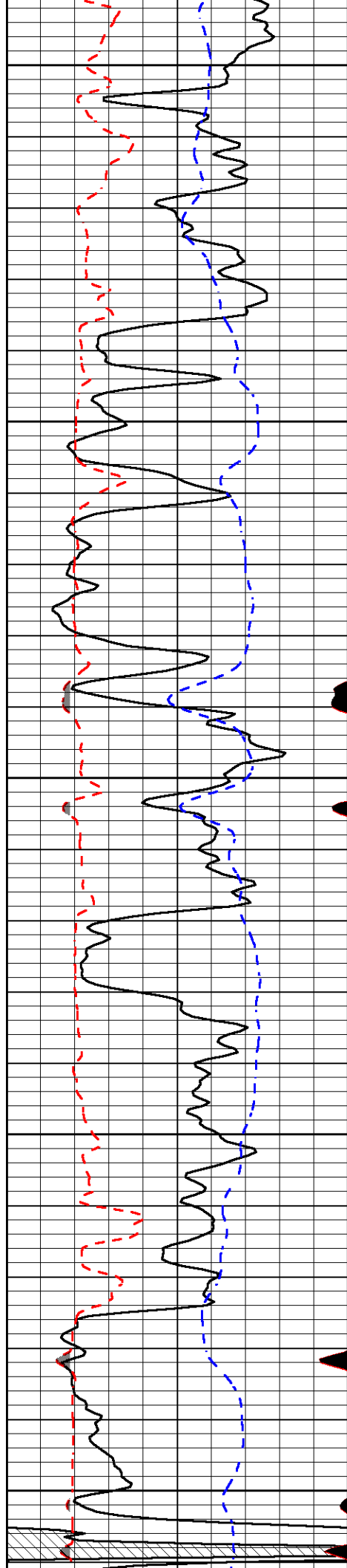


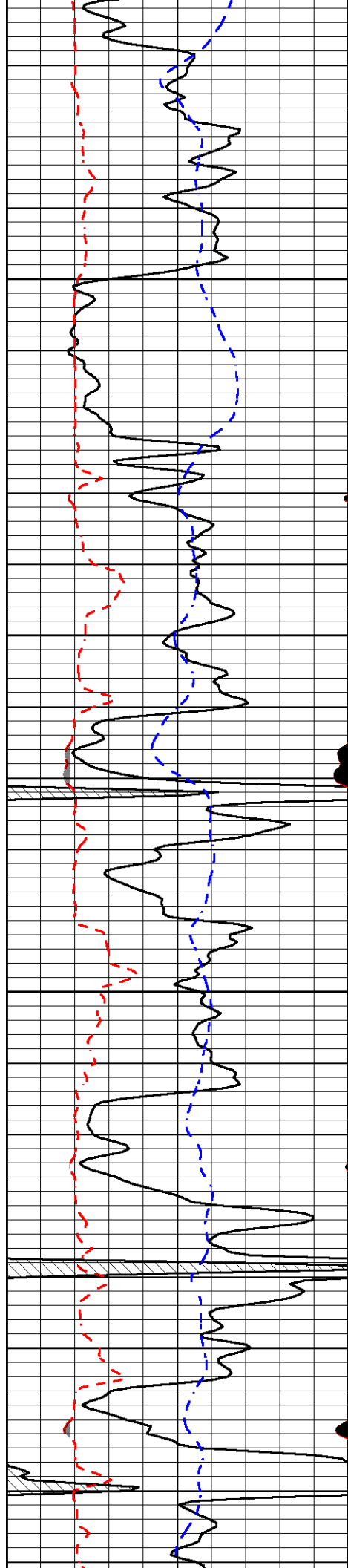
-31

-31

-30

-31



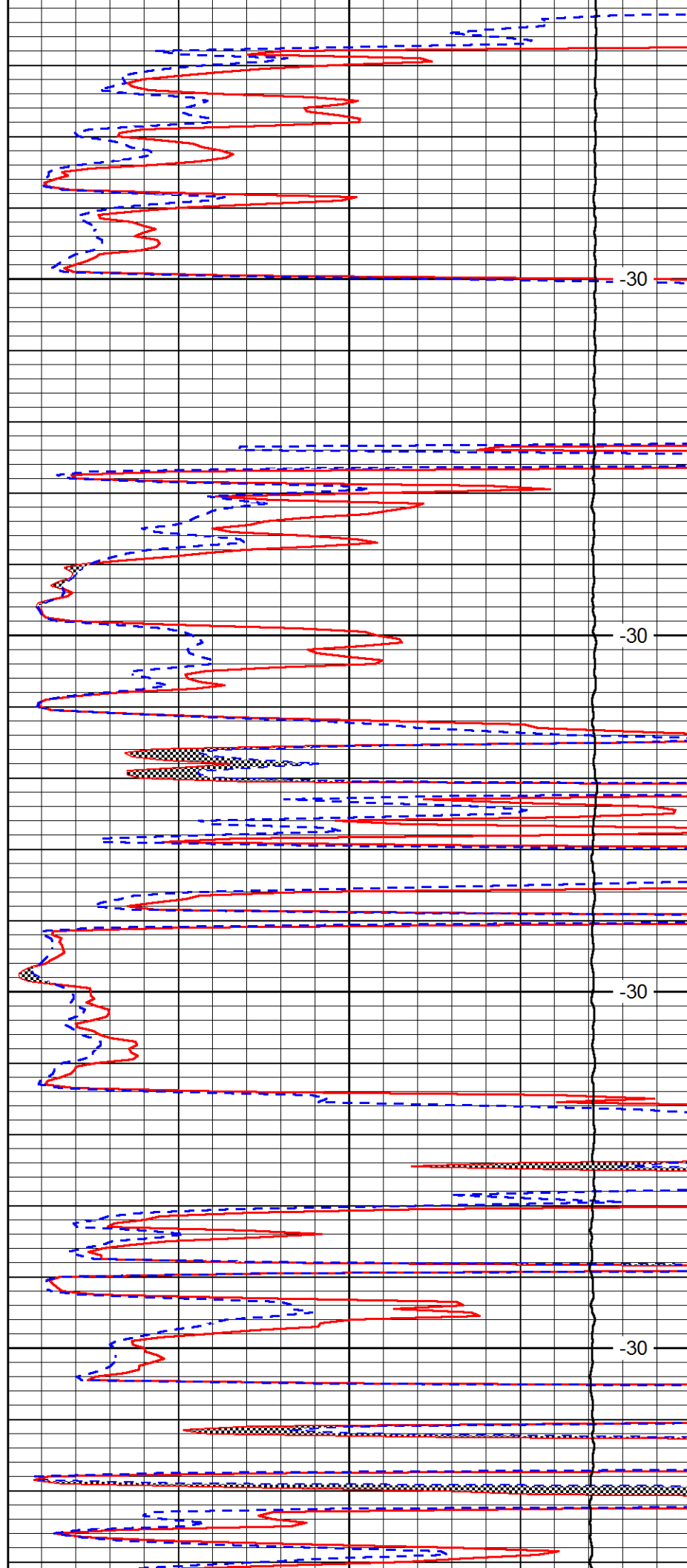


4150

4200

4250

4300

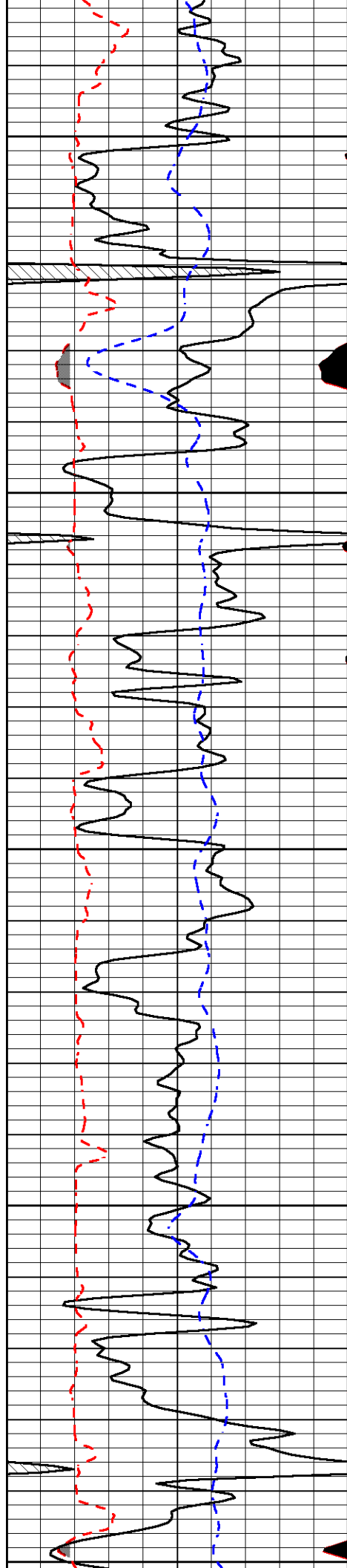


-30

-30

-30

-30



4350

4400

4450

4500

4550

