

PIONEER
Pioneer Energy Services

**MICRORESISTIVITY
LOG**

Company	CARMEN SCHMITT, INC.
Well	ZIEGELMEIER NO. 1-2
Field	WILDCAT
County	THOMAS
State	KANSAS

Location:	API # : 15-193-20,960-00-00	Other Services
	NE NW SE SW	CNL/CDL
	1,226' FSL & 1,959' FWL	DIL
Permanent Datum	GROUND LEVEL	Elevation 2994'
Log Measured From	KELLY BUSHING	K.B. 2999'
Drilling Measured From	KELLY BUSHING	D.F. N/A
		G.L. 2994'

Date	11/11/2015
Run Number	TWO
Depth Driller	4576'
Depth Logger	4576'
Bottom Logged Interval	4575'
Top Log Interval	3600'
Casing Driller	8.625" @ 248'
Casing Logger	248'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	2800
Density / Viscosity	9.3 54
pH / Fluid Loss	10.0 7.2
Source of Sample	Flowline
Rm @ Meas. Temp	1.22 @ 58
Rmt @ Meas. Temp	.92 @ 58
Rmc @ Meas. Temp	1.65 @ 58
Source of Rmt / Rmc	Charts
Rm @ BHT	.58 @ 122
Operating Rig Time	3 1/2 HOURS
Max Rec. Temp. F	122
Equipment Number	108
Location	Hays
Recorded By	J. LONG
Witnessed By	BRAD RINE

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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.
GEM, 2 NORTH TO X ROAD, 2 EAST TO DEAD END, 1/4 NORTH, EAST INTO

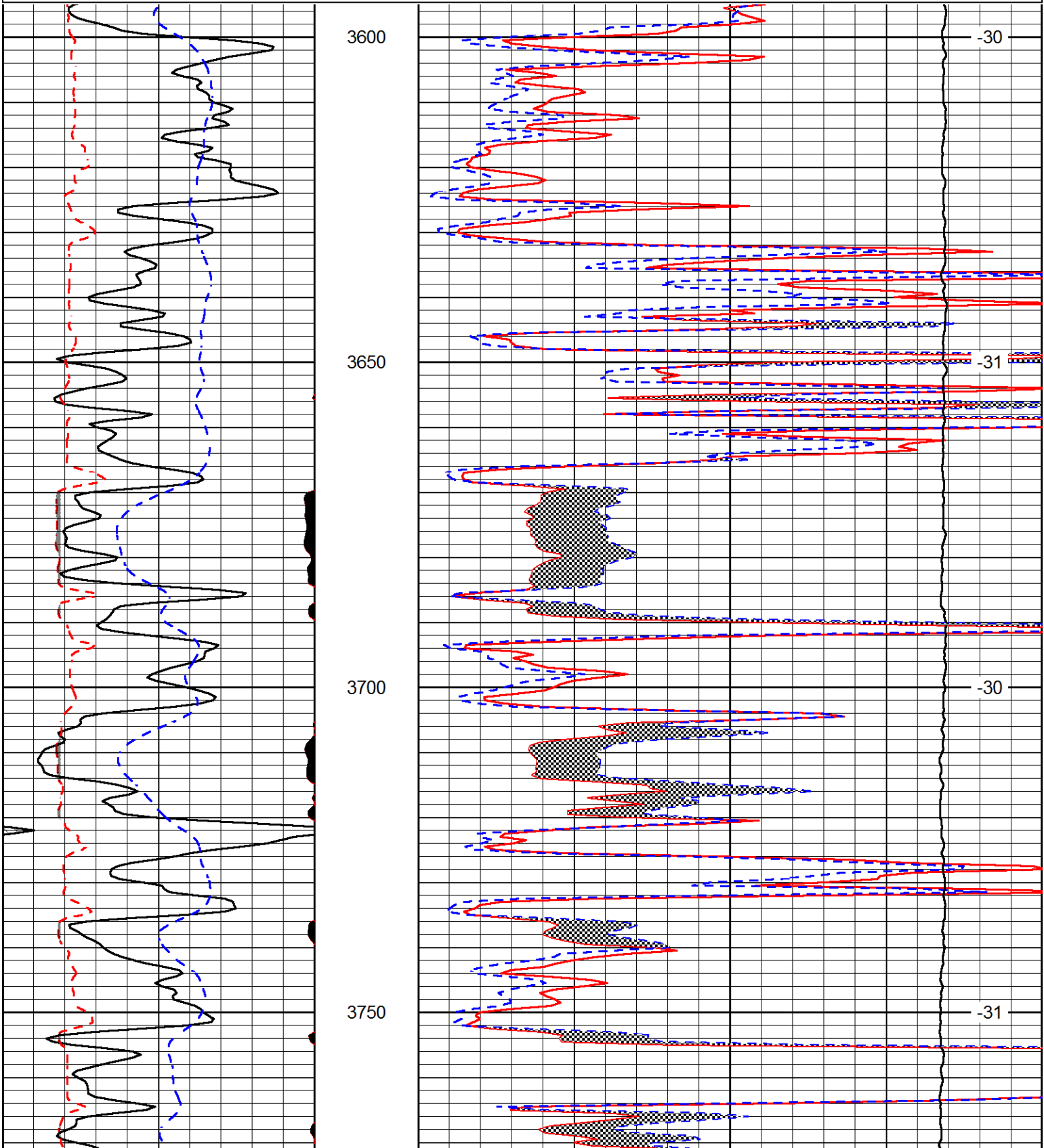
Log Measured From: KELLY BUSHING 5 Ft. Above Permanent Datum

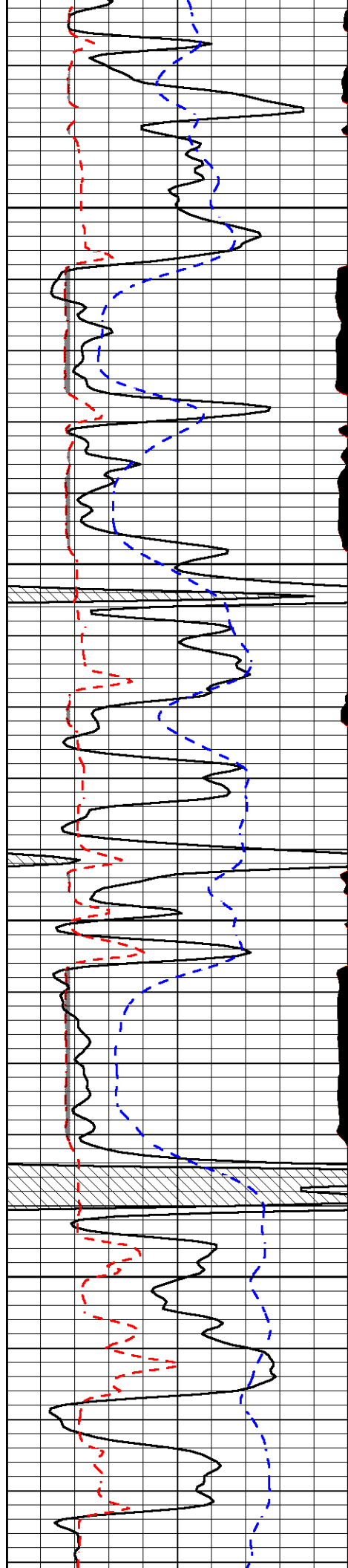
THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneerres.com 785-625-3858

Your Pioneer Energy Services Crew Engineer: J. LONG Operator: Operator: Operator:	This Log Record Was Witnessed By Primary Witness: BRAD RINE Secondary Witness: Secondary Witness: Secondary Witness:
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Database File	carmenschmitt_ziegelmeier_1-2hd.db
Dataset Pathname	DIL/carmstck
Presentation Format	micro
Dataset Creation	Wed Nov 11 19:06:15 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)



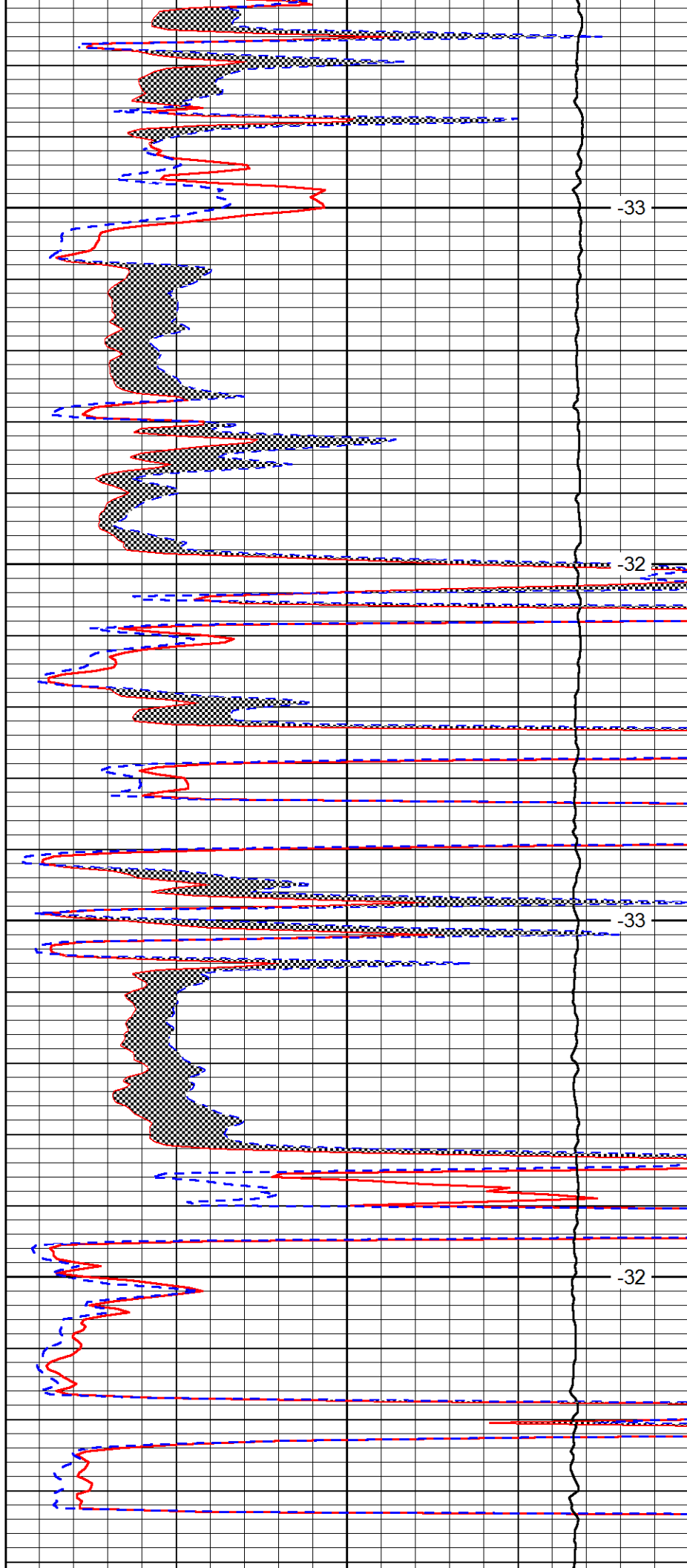


3800

3850

3900

3950

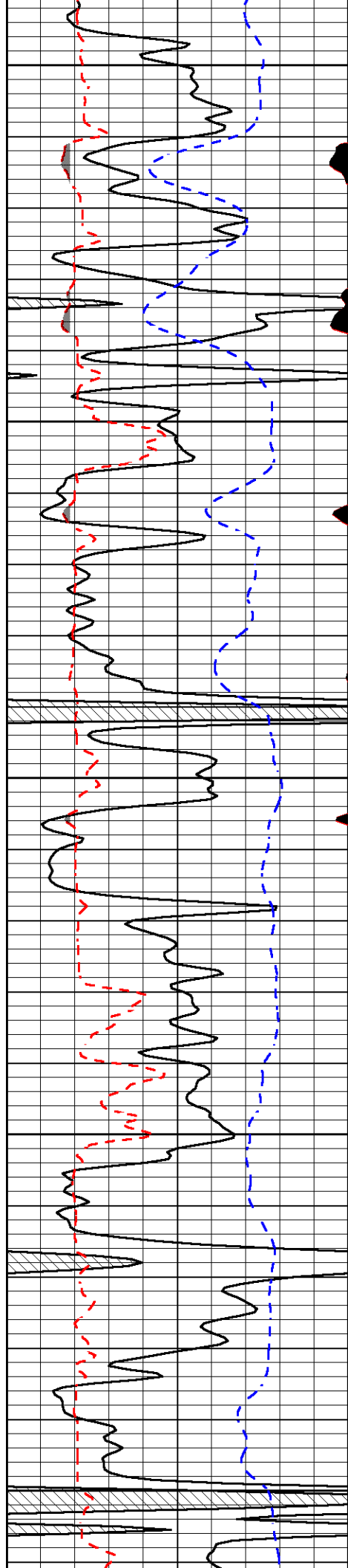


-33

-32

-33

-32



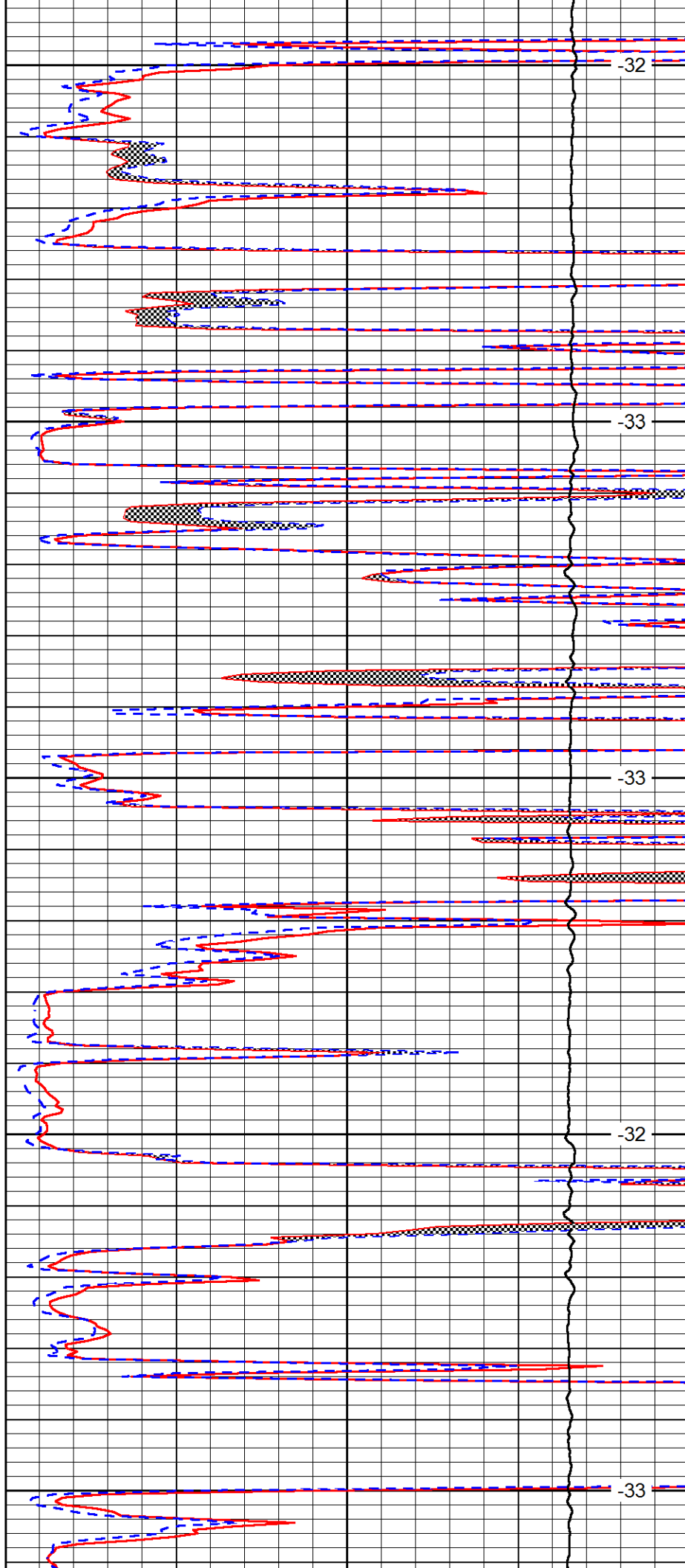
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4050

4100

4150

4200



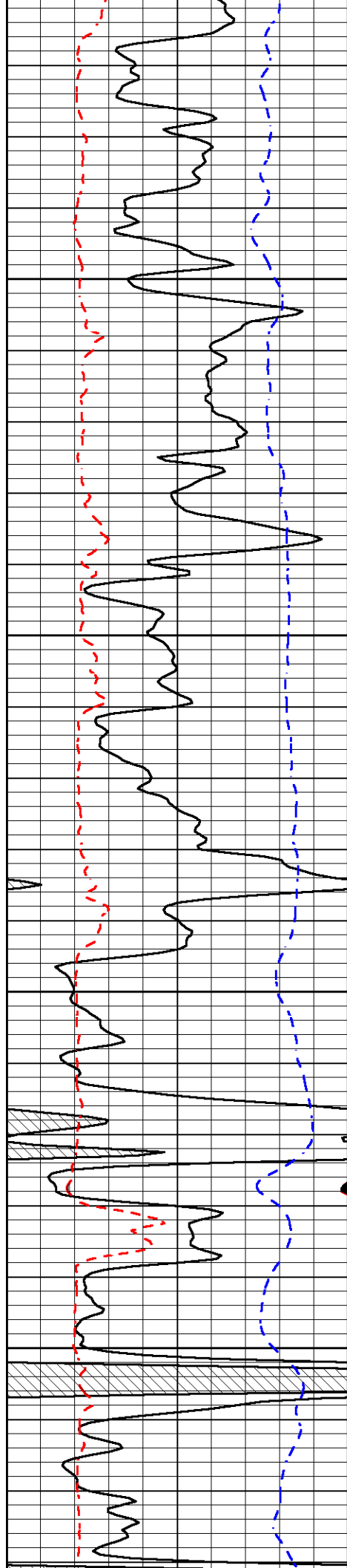
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-33

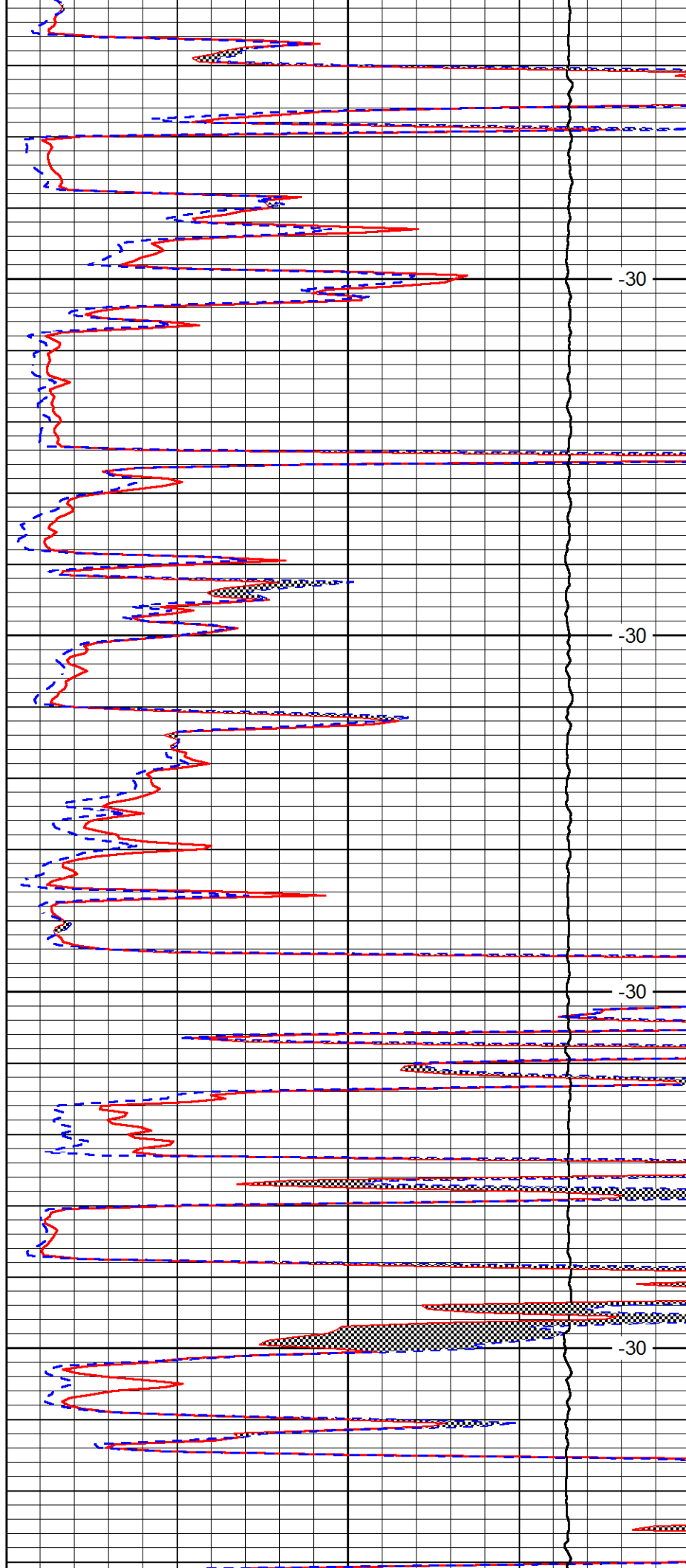


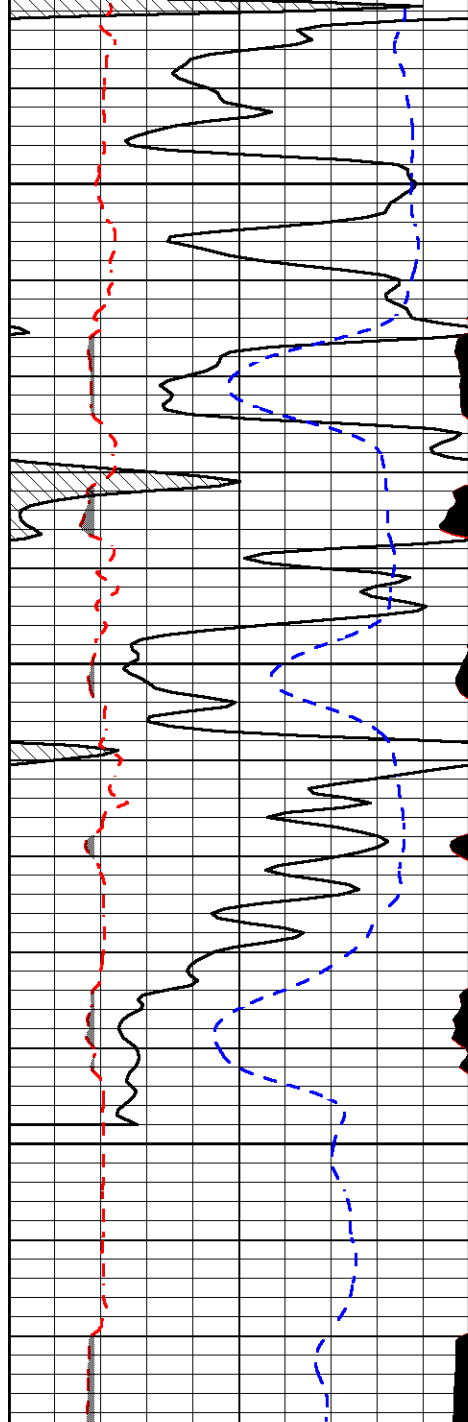
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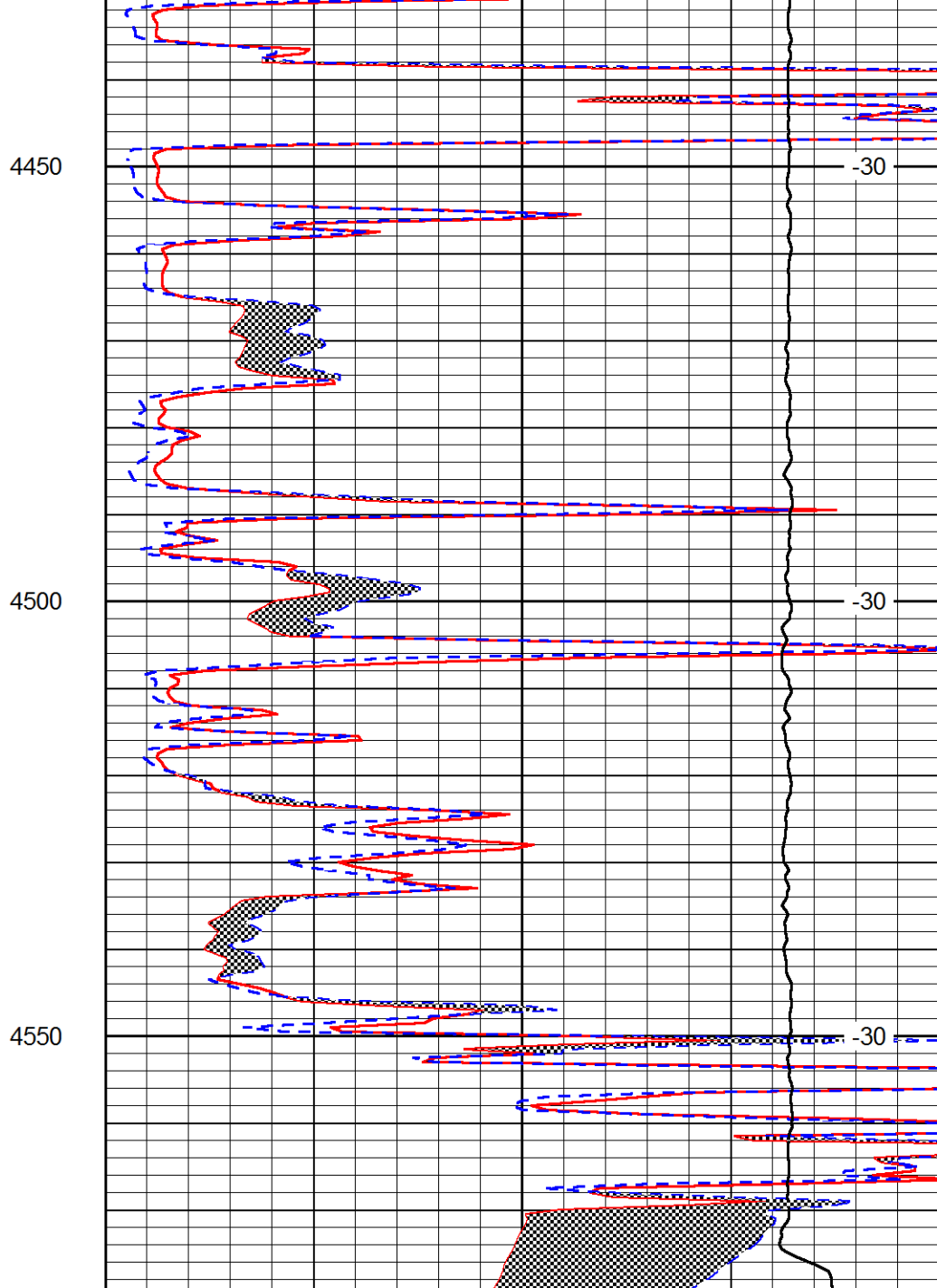
4350

4400





0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	Mud Cake (in)	7.875
-200	SP (mV)	0



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0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

LSPD
(ft/min)