PIONEER

Pioneer Energy Services

MICRORESISTIVITY LOG

Company ZINSZER OIL COMPANY, INC.
Well AMREIN NO. 3
Field WEBSTER
County ROOKS State KANSAS

Location: API # : 15-163-24,309-00-00
990' FSL & 2,310' FEL
SEC 33 TWP 8S RGE 19W

Other Services
RAG

Elevation
K.B. 2002'
D.F. N/A
G.L. 1994'

Permanent Datum GROUND LEVEL Elevation 1994'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

CompanyZINSZER OIL COMPANY, INC.
Well AMREIN NO. 3
Field WEBSTER
County ROOKS
State KANSAS

Date	11/4/2015			
Run Number	TWO			
Depth Driller	3432'			
Depth Logger	3433'			
Bottom Logged Interval	3432'			
Top Log Interval	2800'			
Casing Driller	8.625" @ 1420'			
Casing Logger	1416'			
Bit Size	7.875"			
Type Fluid in Hole	CHEMICAL			
Salinity,ppm CL	2500			
Density / Viscosity	9.0	54		
pH / Fluid Loss	9.5	8.8		
Source of Sample	Flowline			
Rm @ Meas. Temp	.86 @ 74			
Rmf @ Meas. Temp	.65 @ 74			
Rmc @ Meas. Temp	1.16 @ 74			
Source of Rmf / Rmc	Charts			
Rm @ BHT	.58 @ 110			
Operating Rig Time	3 HOURS			
Max Rec. Temp. F	110			
Equipment Number	108			
Location	Hays			
Recorded By	J. LONG			
Witnessed By	MARC DOWNING			

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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.

ZURICH, 5 NORTH, 1/2 WEST, NORTH INTO

Log Measured From: KELLY BUSHING 8 Ft. Above Permanent Datum

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

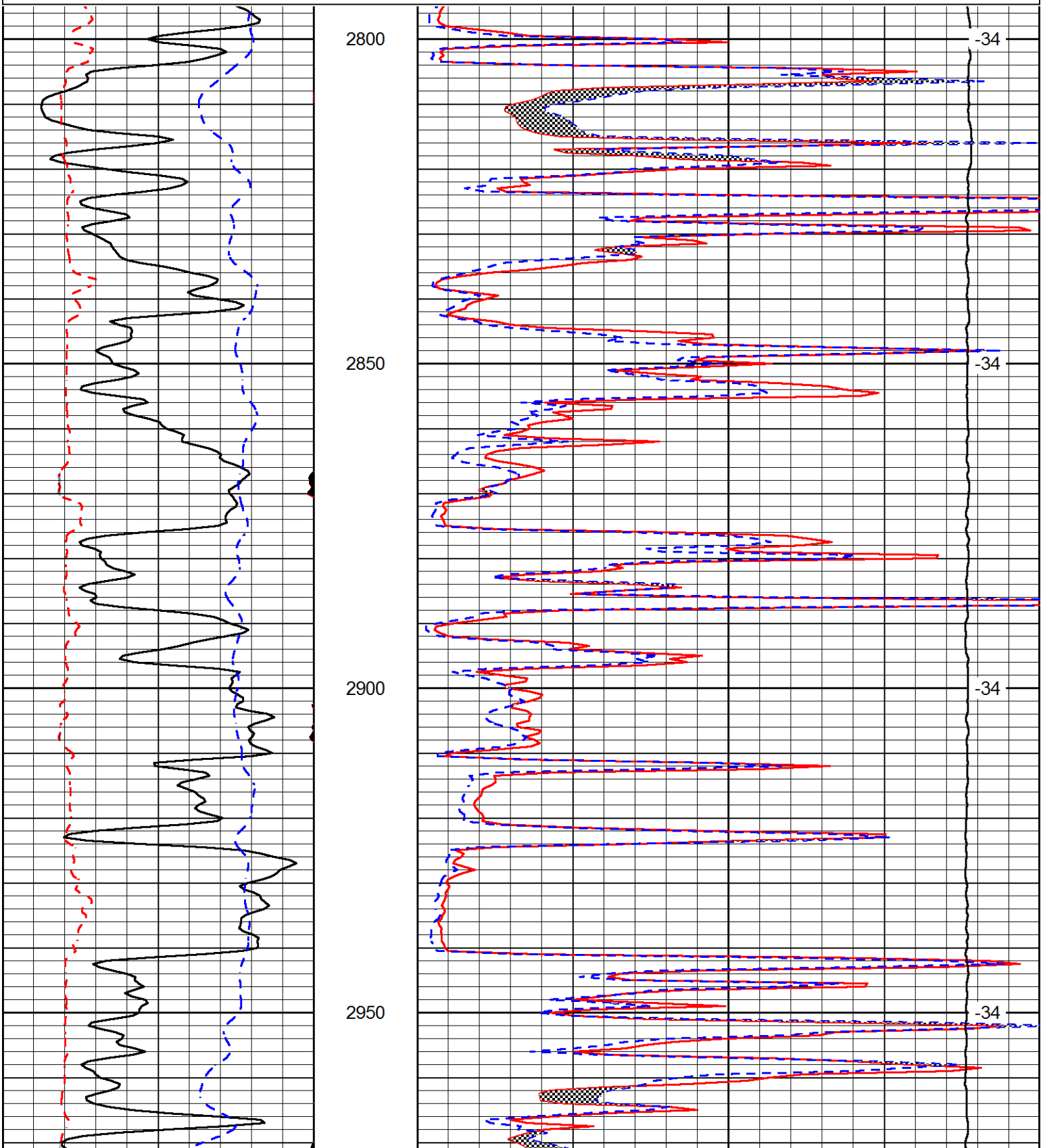
Your Pioneer Energy Services Crew	This Log Record Was Witnessed By
Engineer: J. LONG	Primary Witness: MARC DOWNING
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

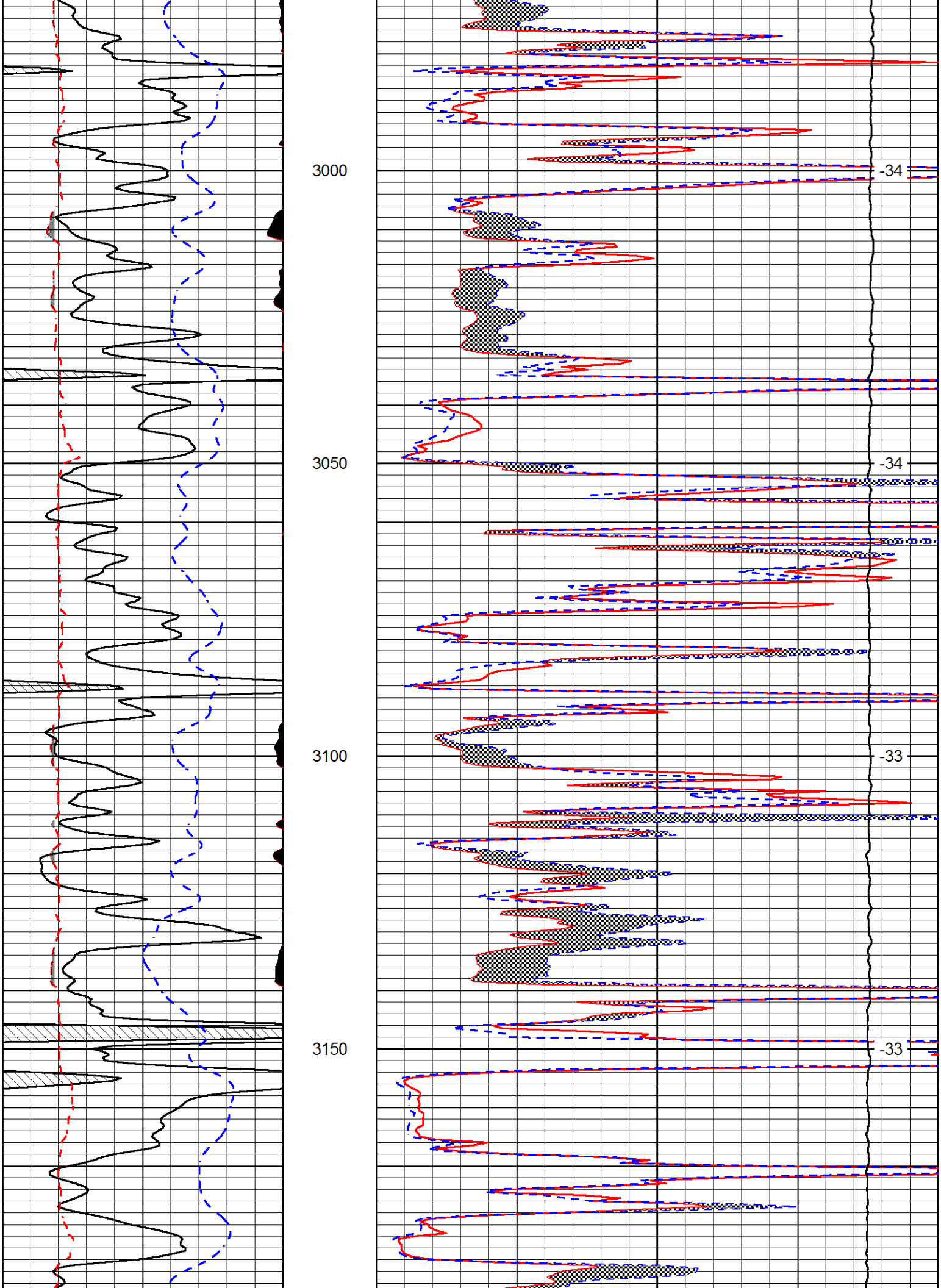
Database File	zinszer_amrein_3hd.db
Dataset Pathname	rag/zinsrag
Presentation Format	micro
Dataset Creation	Thu Nov 05 01:14:07 2015
Charted by	Depth in Feet scaled 1:240

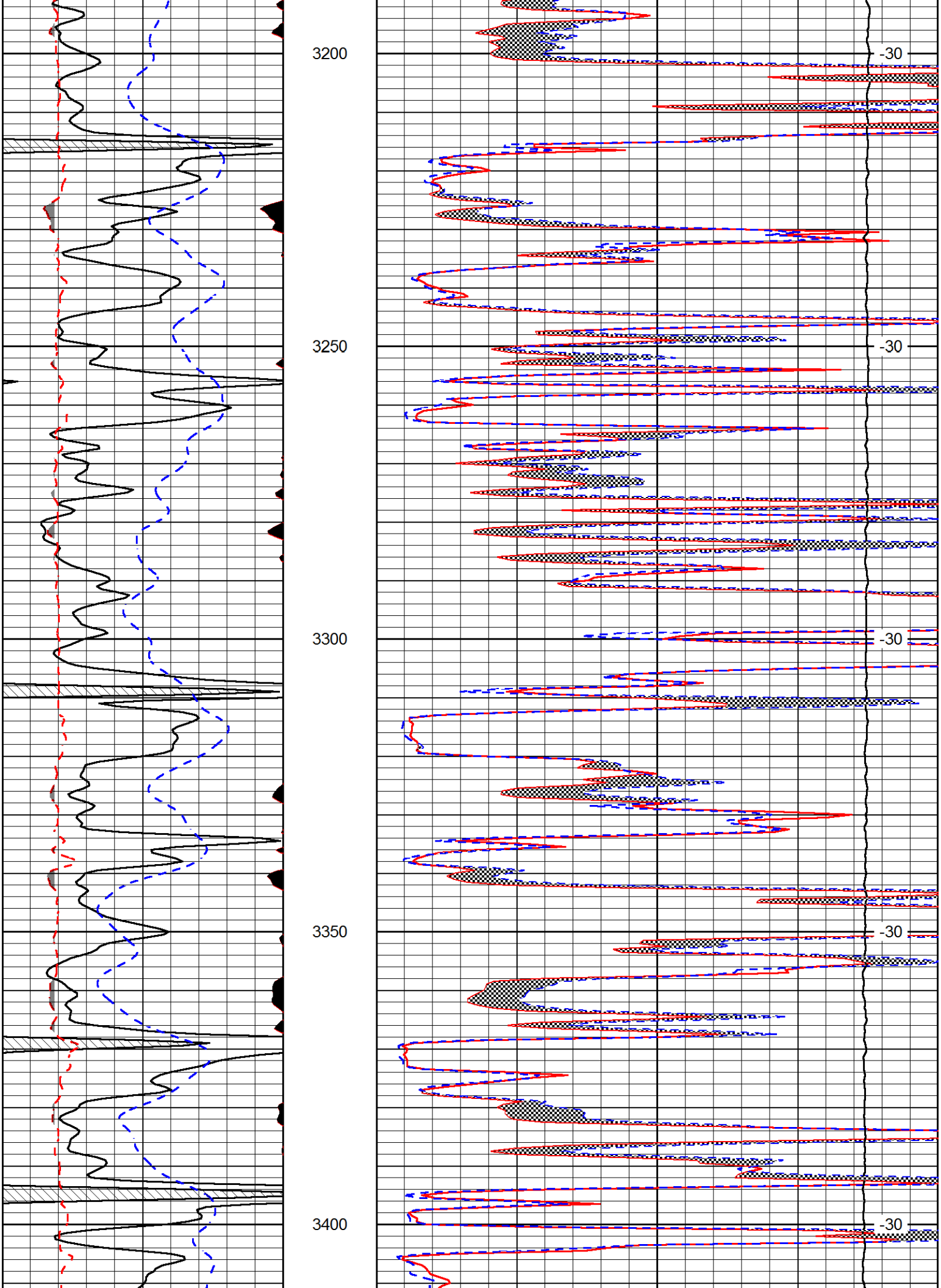
0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	Mud Cake (in)	7.875
-200	SP (mV)	0

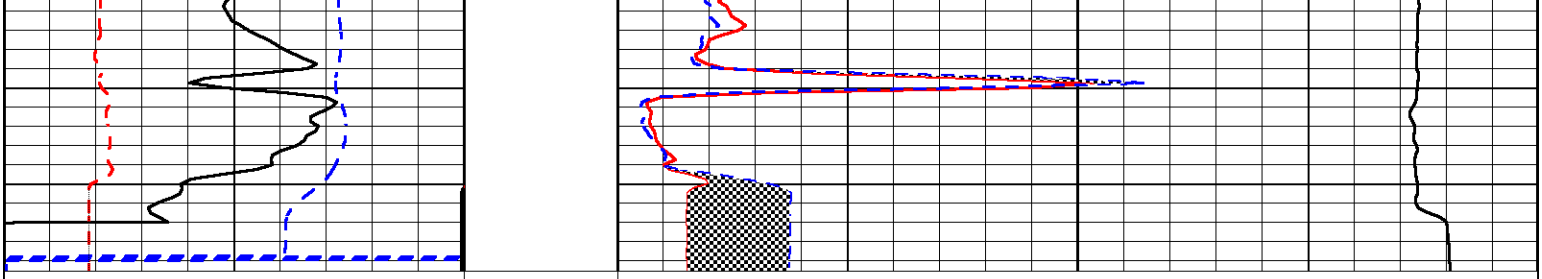
0	Micro Inverese 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

LSPD (ft/min)




3000
3050
3100
3150
-34
-34
-33
-33


3200
3250
3300
3350
3400
-30
-30
-30
-30
-30



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

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(ft/min)