

PIONEER
Pioneer Energy Services

**MICRORESISTIVITY
LOG**

Company TEXKAN EXPLORATION, LLC Well SAUER "A" NO. 8 Field BOLLIG County GRAHAM State KANSAS		Company TEXKAN EXPLORATION, LLC Well SAUER "A" NO. 8 Field BOLLIG County GRAHAM State KANSAS	
Location: API # : 15-065-24110-00-00 990' FSL & 330' FEL SEC 28 TWP 9S RGE 25W		Other Services CNL/CDL DIL/BHCS RAG	
Permanent Datum	GROUND LEVEL	Elevation	2568'
Log Measured From	KELLY BUSHING	K.B.	2575'
Drilling Measured From	KELLY BUSHING	D.F.	N/A
		G.L.	2568'
Date	8/23/15		
Run Number	THREE		
Depth Driller	4166'		
Depth Logger	4156'		
Bottom Logged Interval	4155'		
Top Log Interval	3700'		
Casing Driller	8.625" @ 219'		
Casing Logger	218'		
Bit Size	7.875"		
Type Fluid in Hole	CHEMICAL		
Salinity, ppm CL	2,200		
Density / Viscosity	9.4	51	
pH / Fluid Loss	10.5	7.2	
Source of Sample	Flowline		
Rm @ Meas. Temp	.86 @ 78		
Rmt @ Meas. Temp	.65 @ 78		
Rmc @ Meas. Temp	1.16 @ 78		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.57 @ 118		
Operating Rig Time	5 HOURS		
Max Rec. Temp. F	118		
Equipment Number	108		
Location	Hays		
Recorded By	J. HENRICKSON		
Witnessed By	BILL ROBINSON		

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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.

WAKEENEY KANSAS

NORTH TO RED LINE RD, 14 WEST, 1/4 NORTH, WEST INTO

Log Measured From: KELLY BUSHING

7 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES

www.pioneerres.com

785-625-3858

Your Pioneer Energy Services Crew

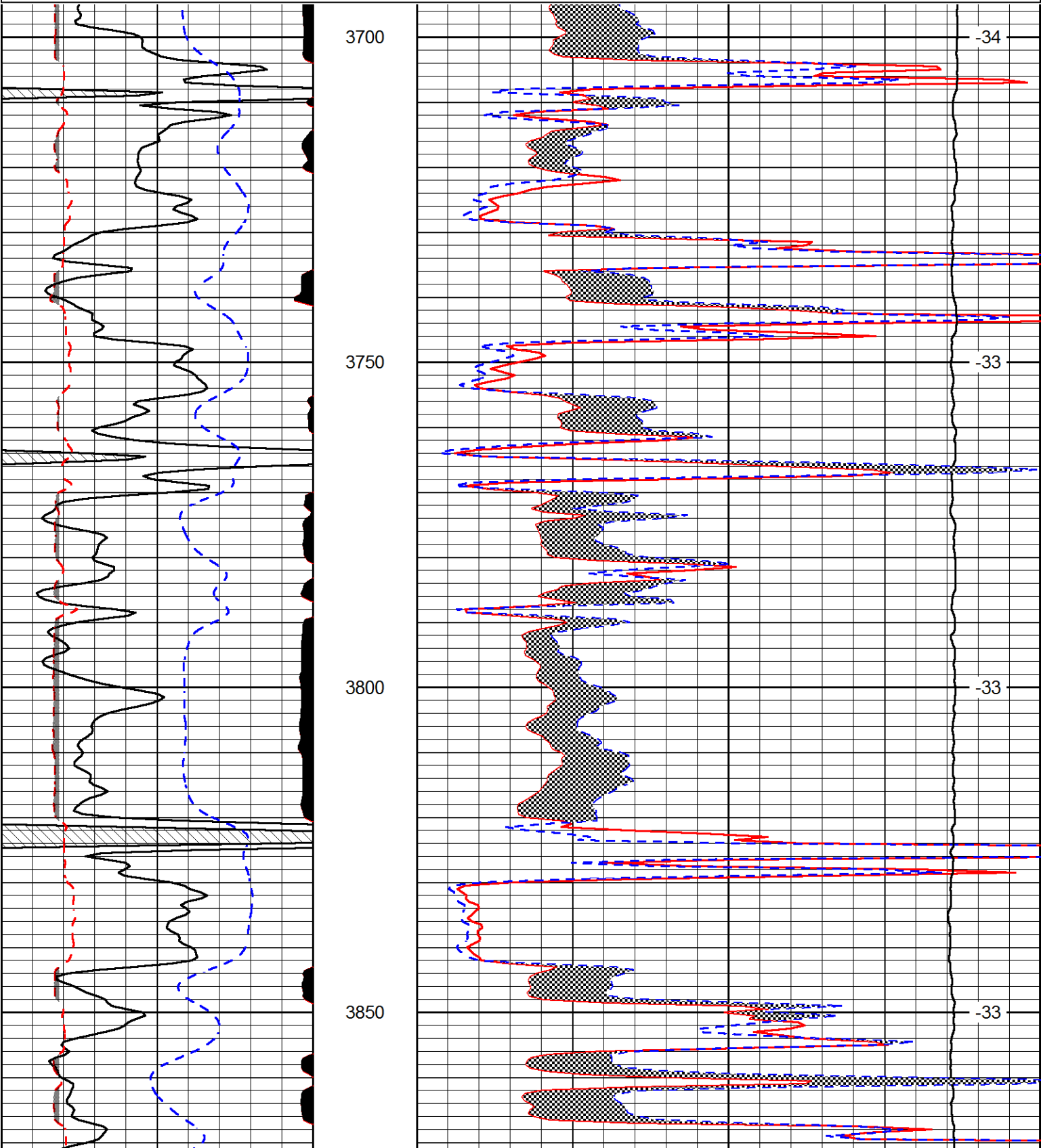
Engineer: J. HENRICKSON
 Operator:
 Operator:
 Operator:

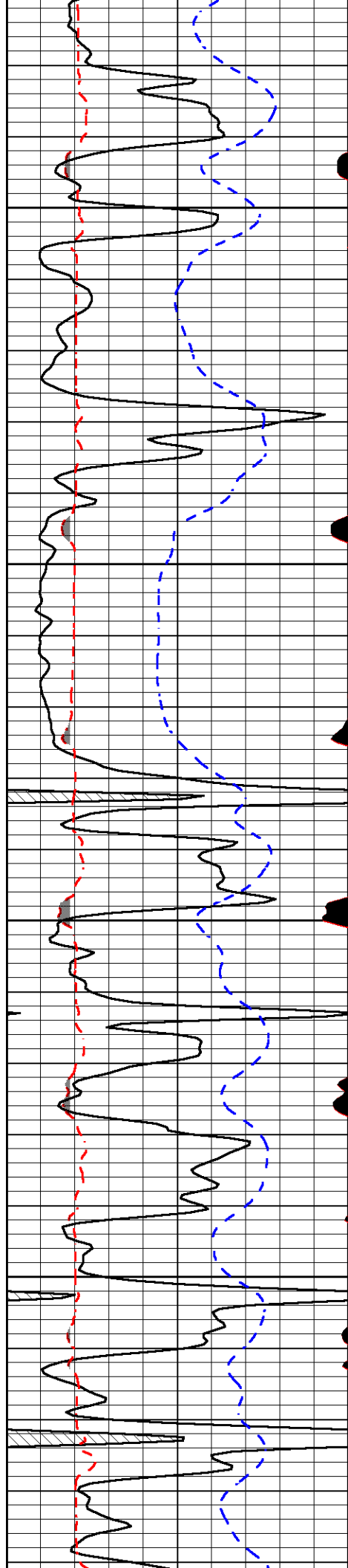
This Log Record Was Witnessed By

Primary Witness: BILL ROBINSON
 Secondary Witness:
 Secondary Witness:
 Secondary Witness:

Database File	texkan_sauer_a_8hd.db
Dataset Pathname	RAG/textstk
Presentation Format	micro
Dataset Creation	Sun Aug 23 17:05:36 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)



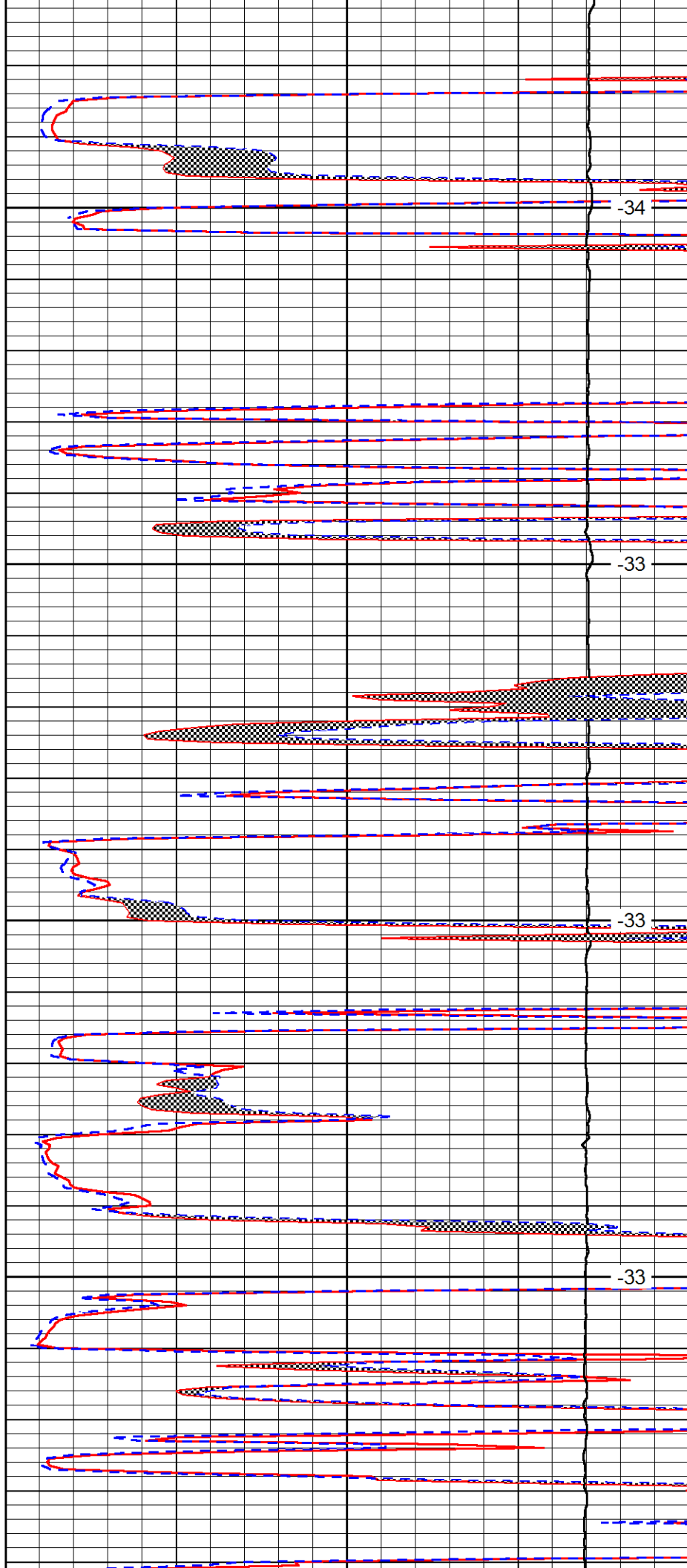


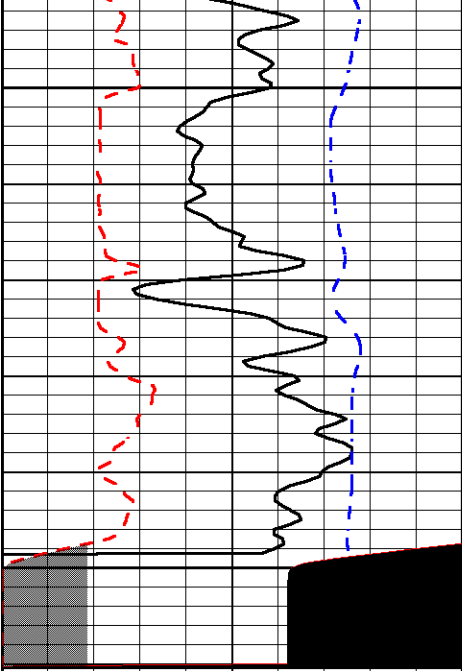
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3950

4000

4050

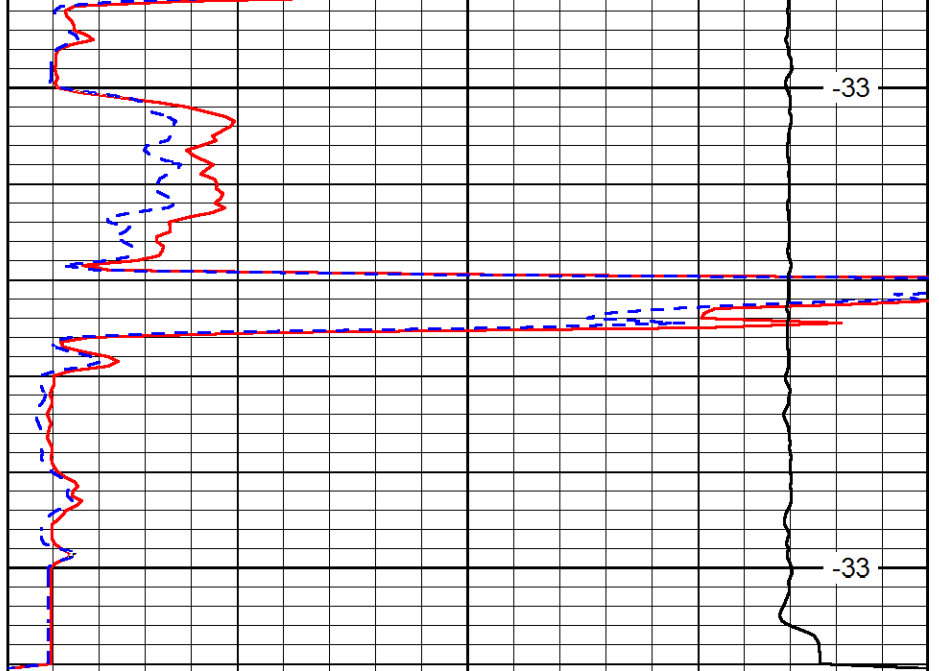




0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	Mud Cake (in)	7.875
-200	SP (mV)	0

4100

4150



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

LSPD
(ft/min)