

PIONEER
Pioneer Energy Services

**DUAL COMP POROSITY
LOG**

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
Permanent Datum **GROUND LEVEL** Elevation **2568'**
Log Measured From **KELLY BUSHING**
Drilling Measured From **KELLY BUSHING**
Other Services
**DIL
MEL/BHCS
RAG**
Elevation
K.B. 2575'
D.F. N/A
G.L. 2568'

Rate	8/23/15					
Run Number	TWO					
Type Log	CNL/CDL					
Depth Driller	4166'					
Depth Logger	4156'					
Bottom Logged Interval	4135'					
Top Logged Interval	3700'					
Type Fluid In Hole	CHEMICAL					
Salinity, PPM CL	2,200					
Density	9.4					
Level	FULL					
Max. Rec. Temp. F	118					
Operating Rig Time	5 HOURS					
Equipment -- Location	108 Hays					
Recorded By	J. HENRICKSON					
Witnessed By	BILL ROBINSON					
Borehole Record						
Run No.	Bit	From	To	Size	Wgt.	
ONE	12.25	00	219	8.625	23#	
TWO	7.875	219	TD			
Casing Record						
		From	To			

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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

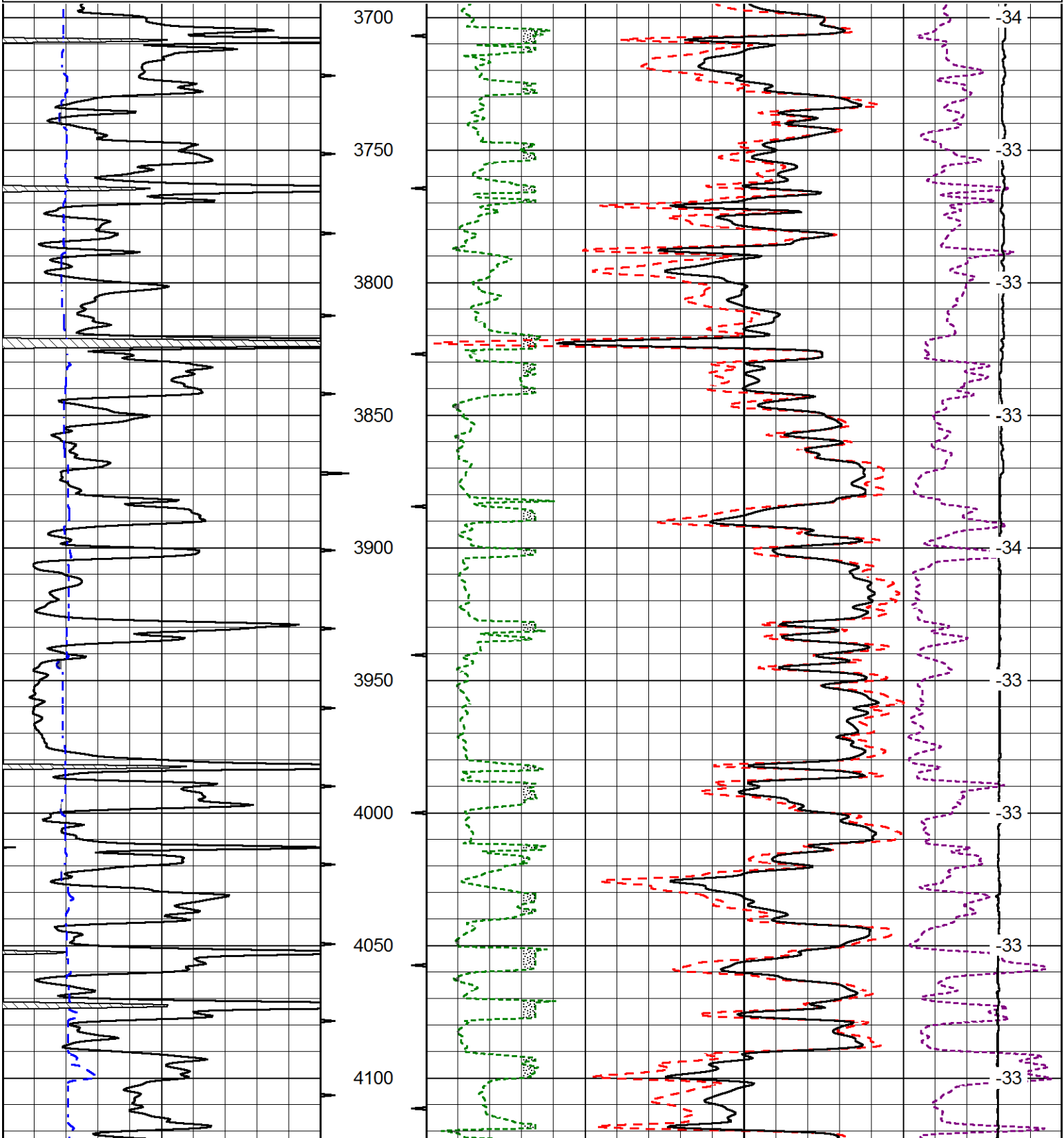
Your Pioneer Energy Services Crew

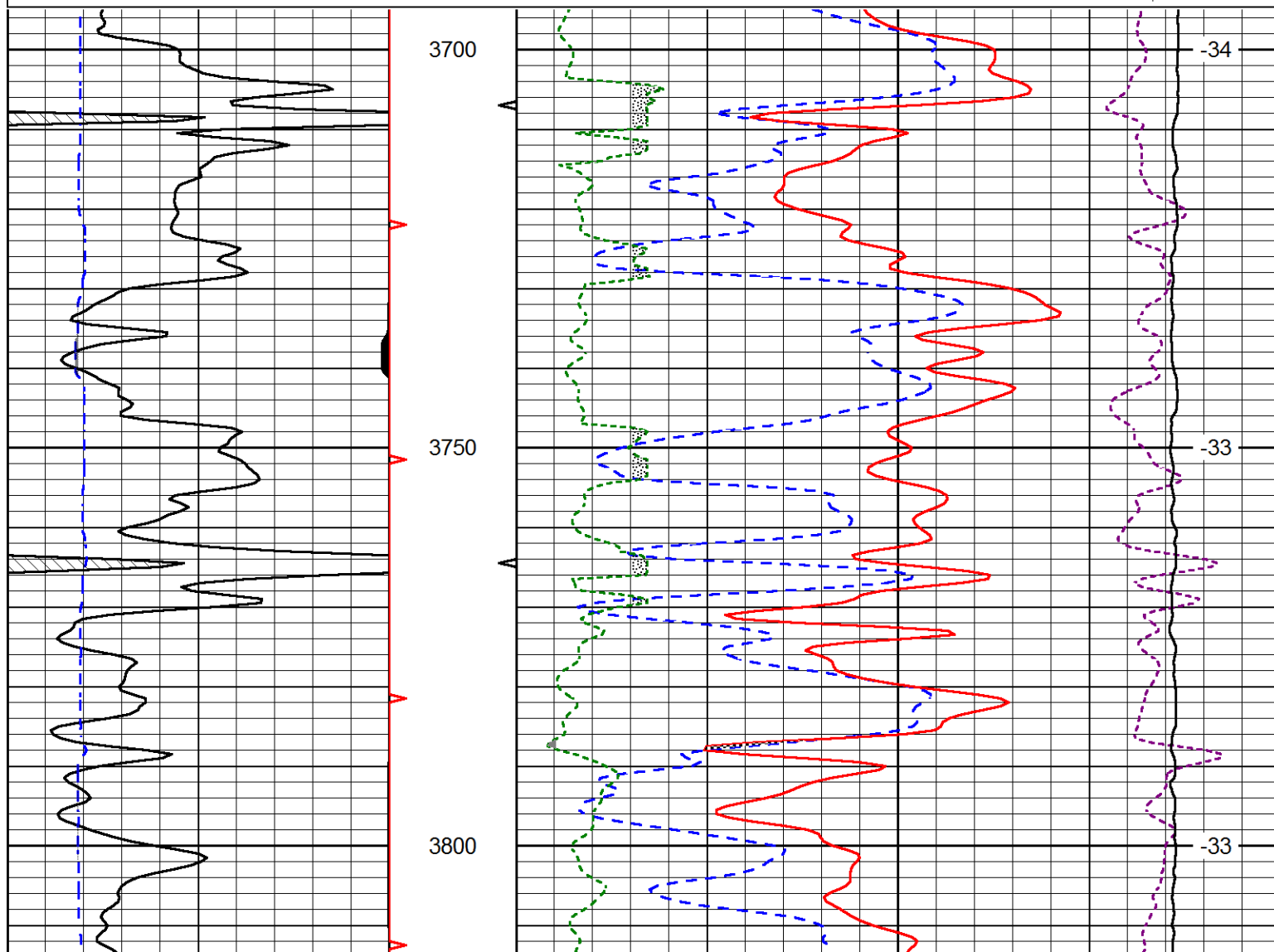
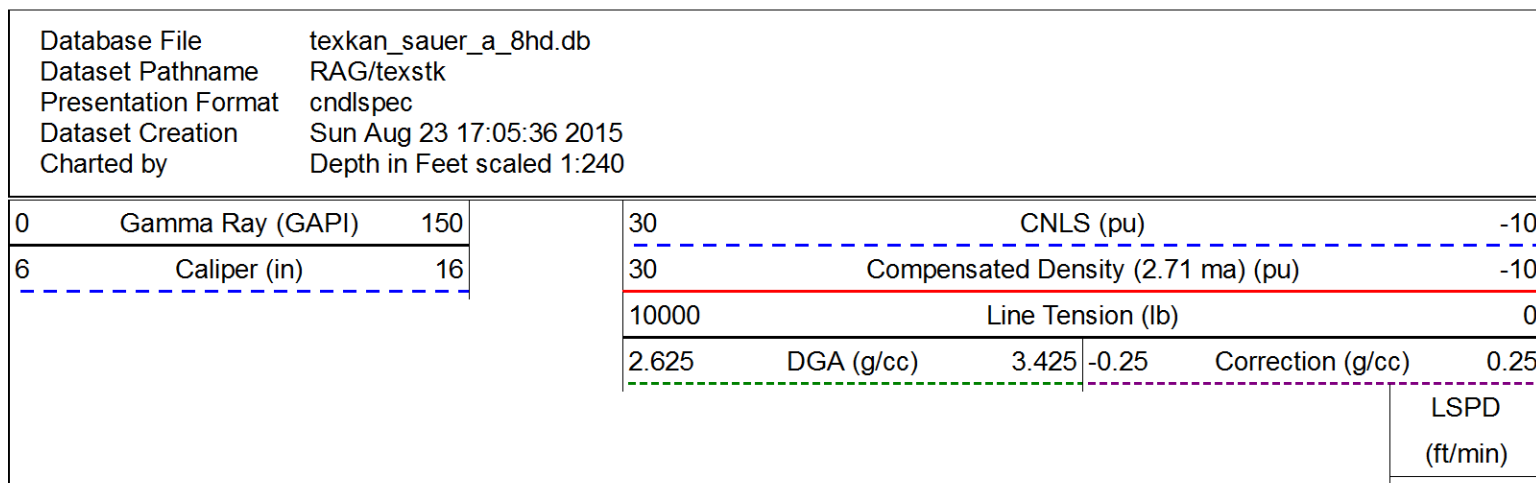
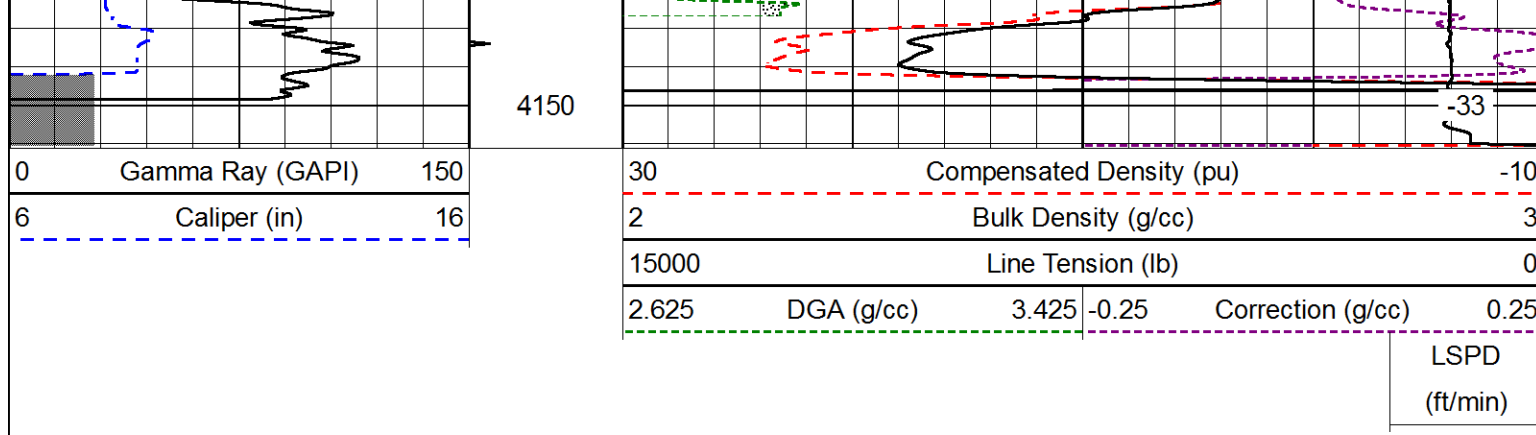
This Log Record Was Witnessed By

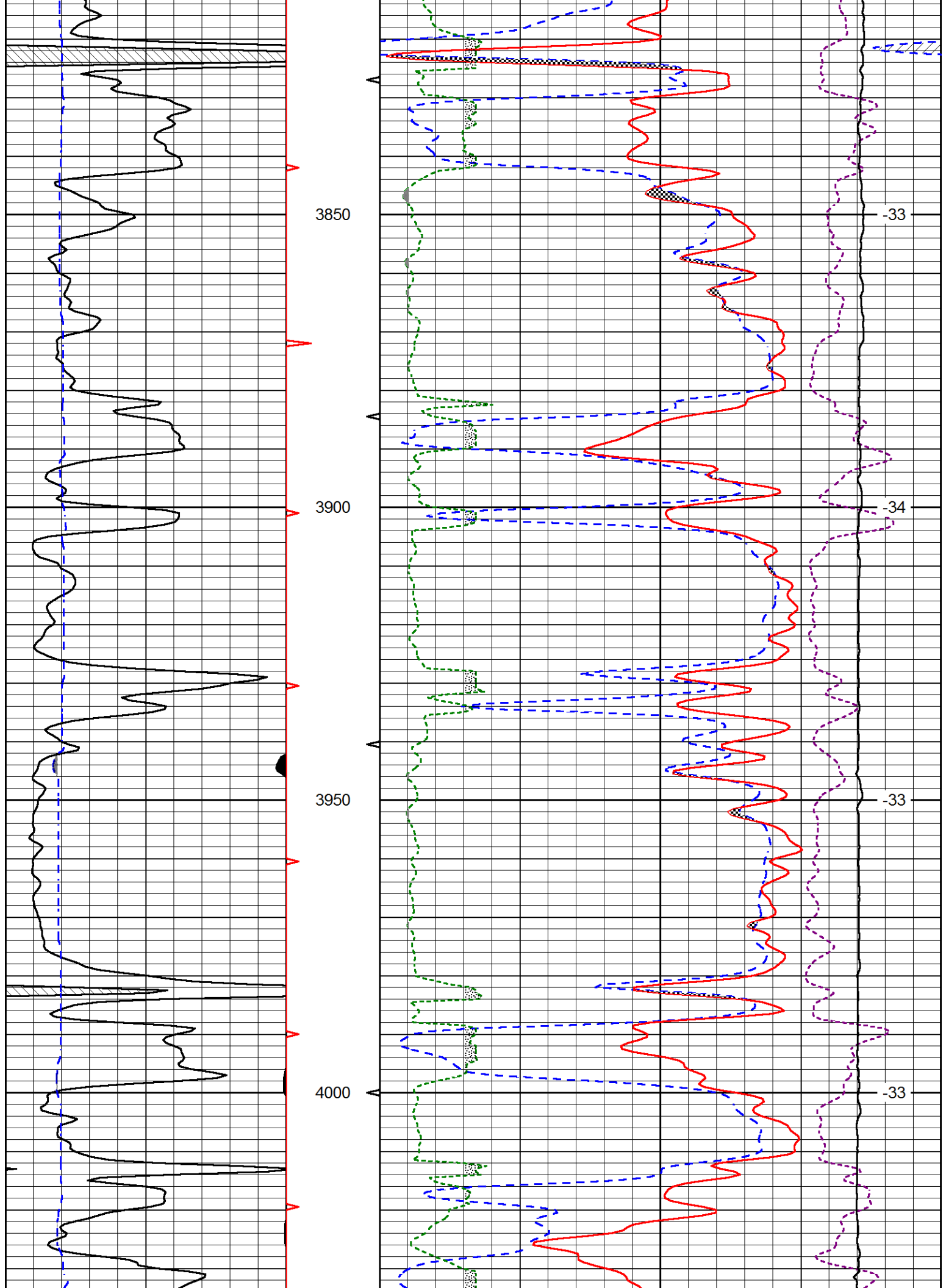
Engineer: J. HENRICKSON
Operator:
Operator:
Operator:

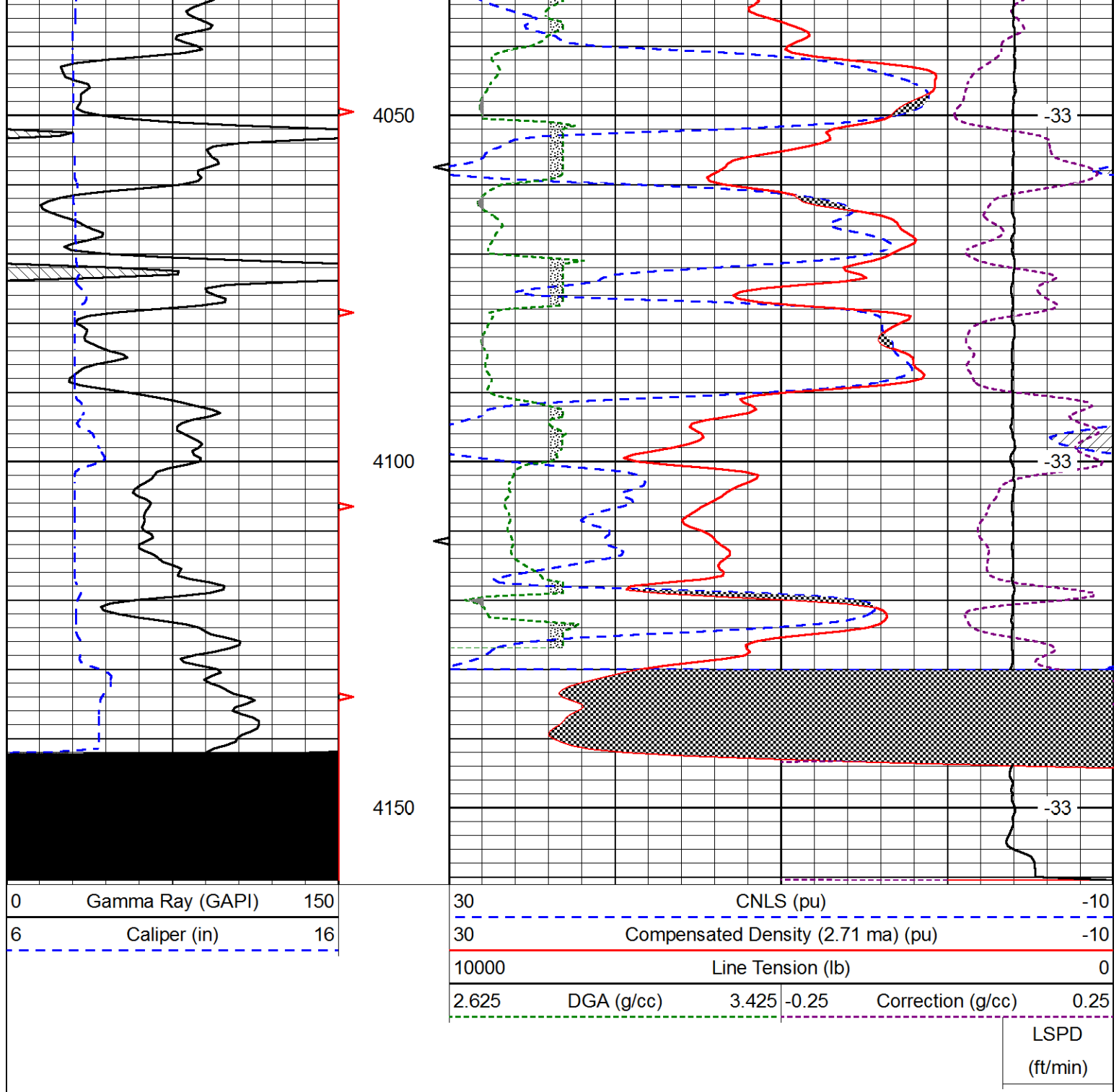
Primary Witness: BILL ROBINSON
Secondary Witness:
Secondary Witness:
Secondary Witness:

0	Gamma Ray (GAPI)	150	30	Compensated Density (pu)		-10
6	Caliper (in)	16	2	Bulk Density (g/cc)		3
			15000	Line Tension (lb)		0
			2.625	DGA (g/cc)	3.425	-0.25
			Correction (g/cc)		0.25	
			LSPD (ft/min)			









0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

30	CNLS (pu)				-10
30	Compensated Density (2.71 ma) (pu)				-10
10000	Line Tension (lb)				0
2.625	DGA (g/cc)	3.425	-0.25	Correction (g/cc)	0.25

LSPD
(ft/min)