



COMPENSATED DENSITY/NEUTRON LOG

Company	PHILLIPS EXPLORATION COMPANY L.C.	Company	PHILLIPS EXPLORATION COMPANY L.C.
Well	MILEY #1-27	Well	MILEY #1-27
Field	WC	Field	WC
County	SHERIDAN	County	SHERIDAN
State	KANSAS	State	KANSAS
Location:	API # : 15-179-21467-0000 2200' FNL & 1050' FEL	Other Services DIL	
Permanent Datum	SEC 27 TWP 8S RGE 27W	Elevation	
Log Measured From	GROUND LEVEL Elevation 2614	K.B. 2619	
Drilling Measured From	KELLY BUSHING 5' A.G.L KELLY BUSHING	D.F. 2617	
		G.L. 2614	
Date	6/24/20		
Run Number	ONE		
Depth Driller	4312		
Depth Logger	4308		
Bottom Logged Interval	4292		
Top Log Interval	3400		
Casing Driller	8 5/8" @ 208'		
Casing Logger	208		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.5/58		
pH / Fluid Loss	9.5/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.1 @ 87F		
Rmf @ Meas. Temp	.83 @ 87F		
Rmc @ Meas. Temp	1.32 @ 87F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	0.81 @ 118F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	118F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	GUS PFANENSTIEL		
Witnessed By	AARON YOUNG		

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, 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. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

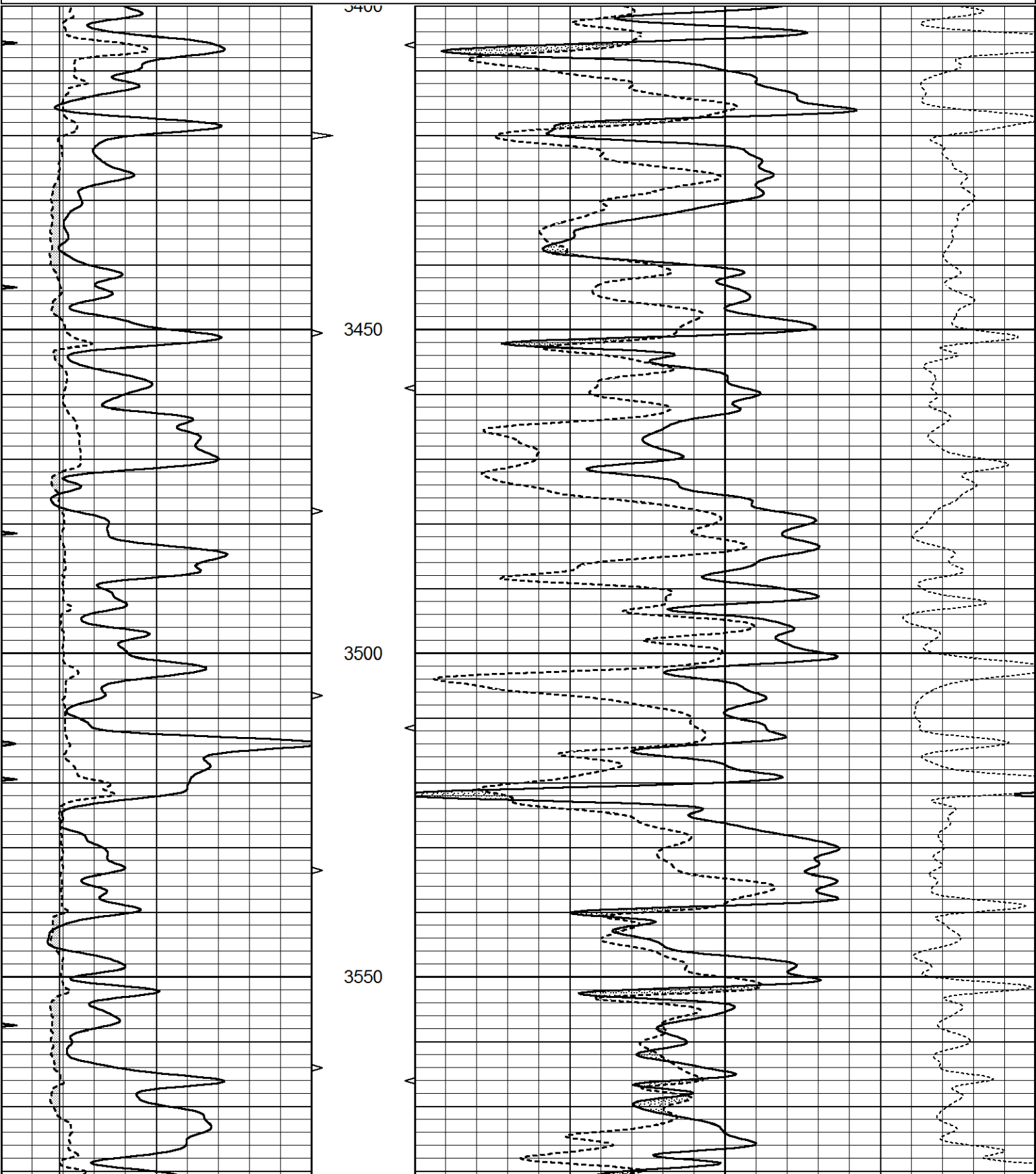
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
HOXIE EAST 6 MILES, TO RD. 503, 1 1/4 SOUTH
1/4 WEST, SOUTH INTO.

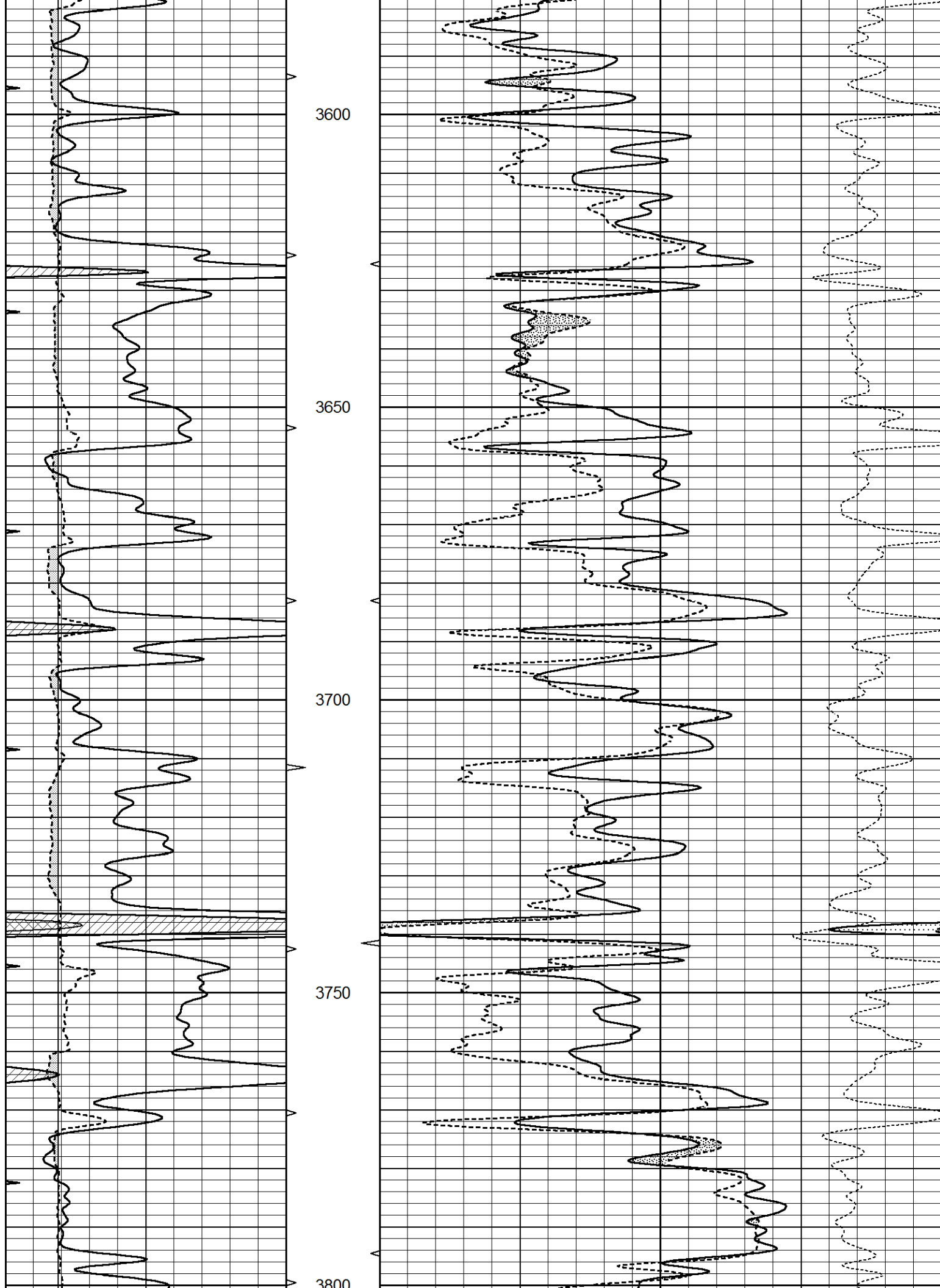


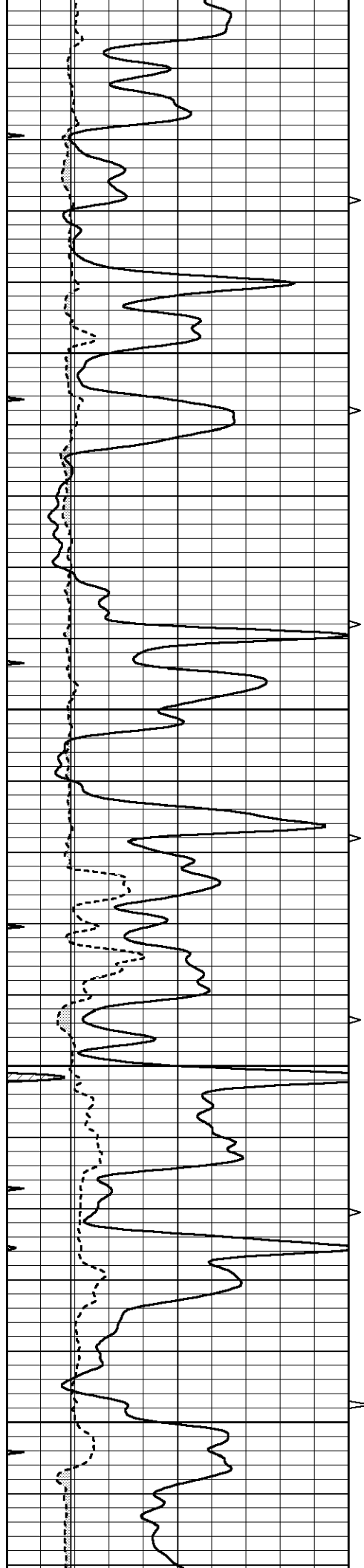
MAIN PASS

Database File	4741ddn.db
Dataset Pathname	pass3.1
Presentation Format	den_neu
Dataset Creation	Wed Jun 24 23:07:27 2020
Charted by	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)			-10	
6	CALIPER (in)	16	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)			-10
0	MINMK	20	TBHV			-0.25	CORRECTION (g/cc)	0.25	
			0 (ft3)	10					







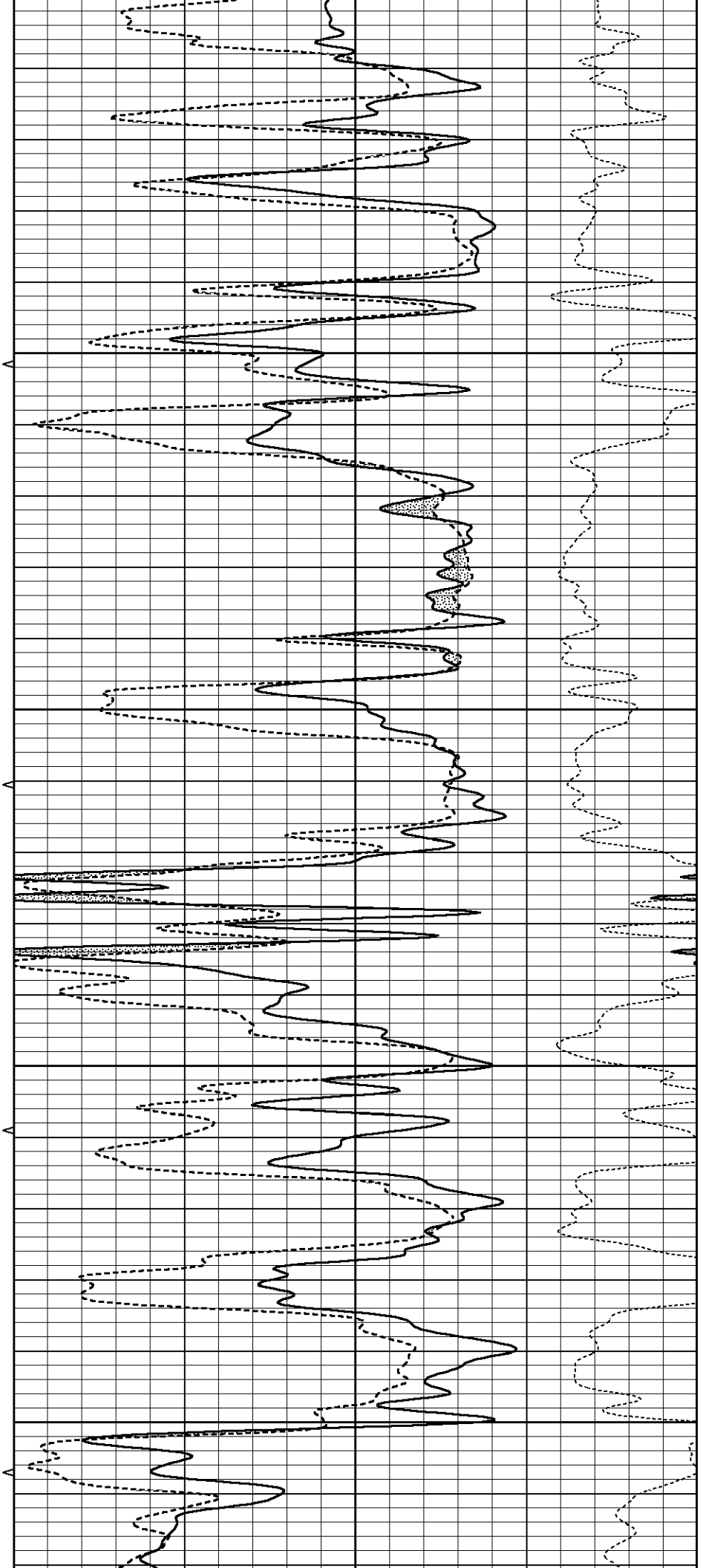
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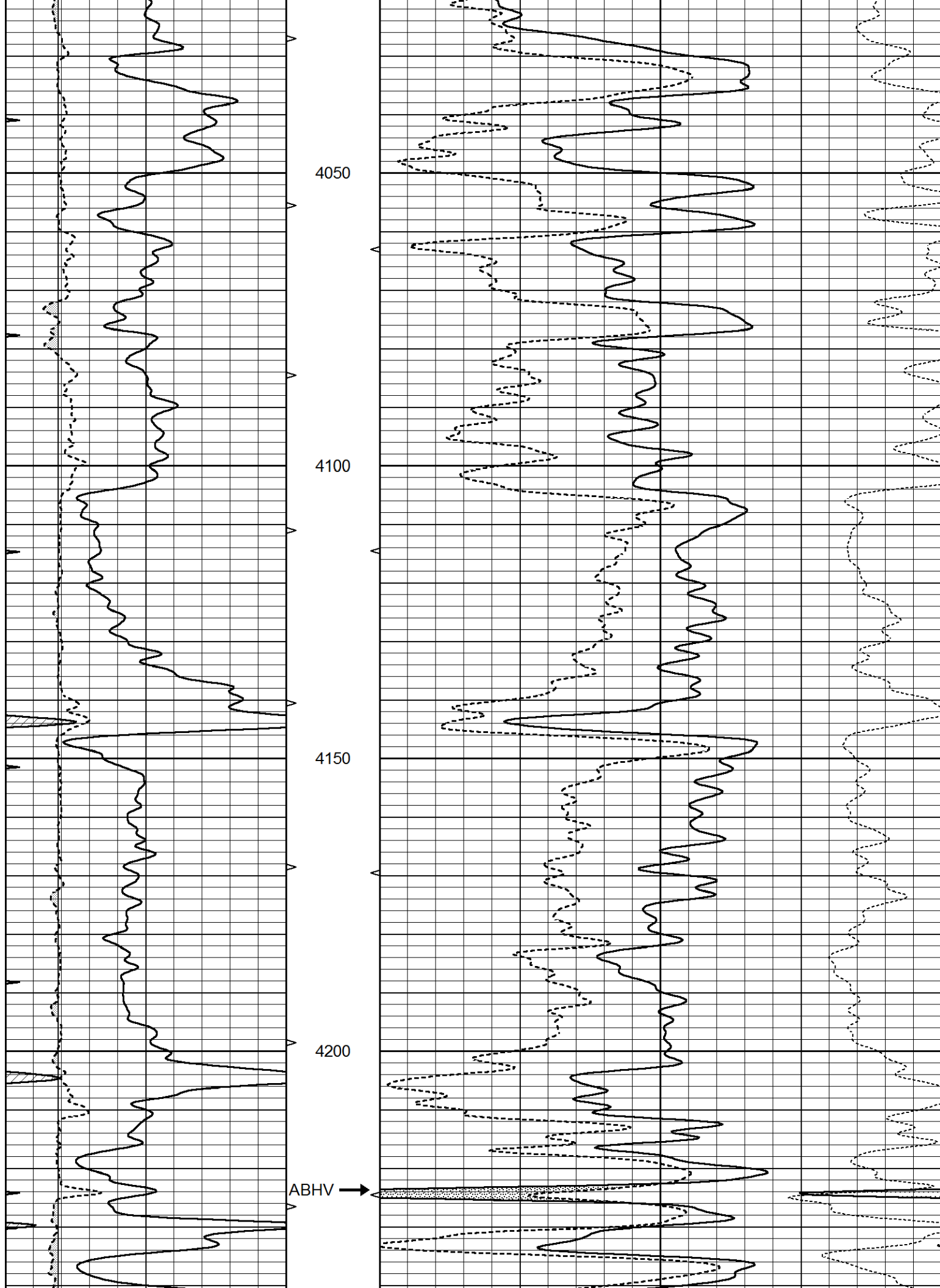
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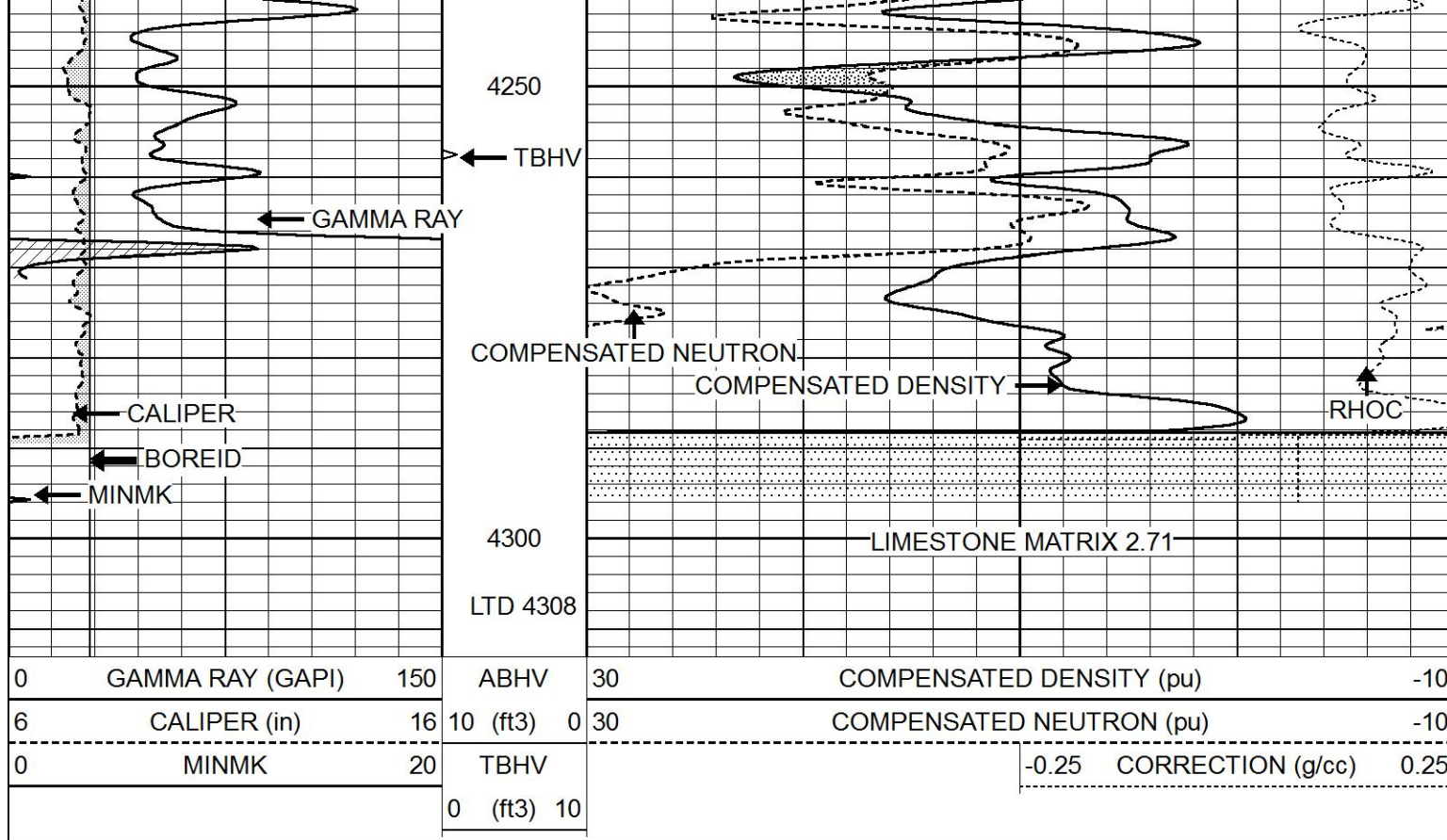
3900

3950

4000



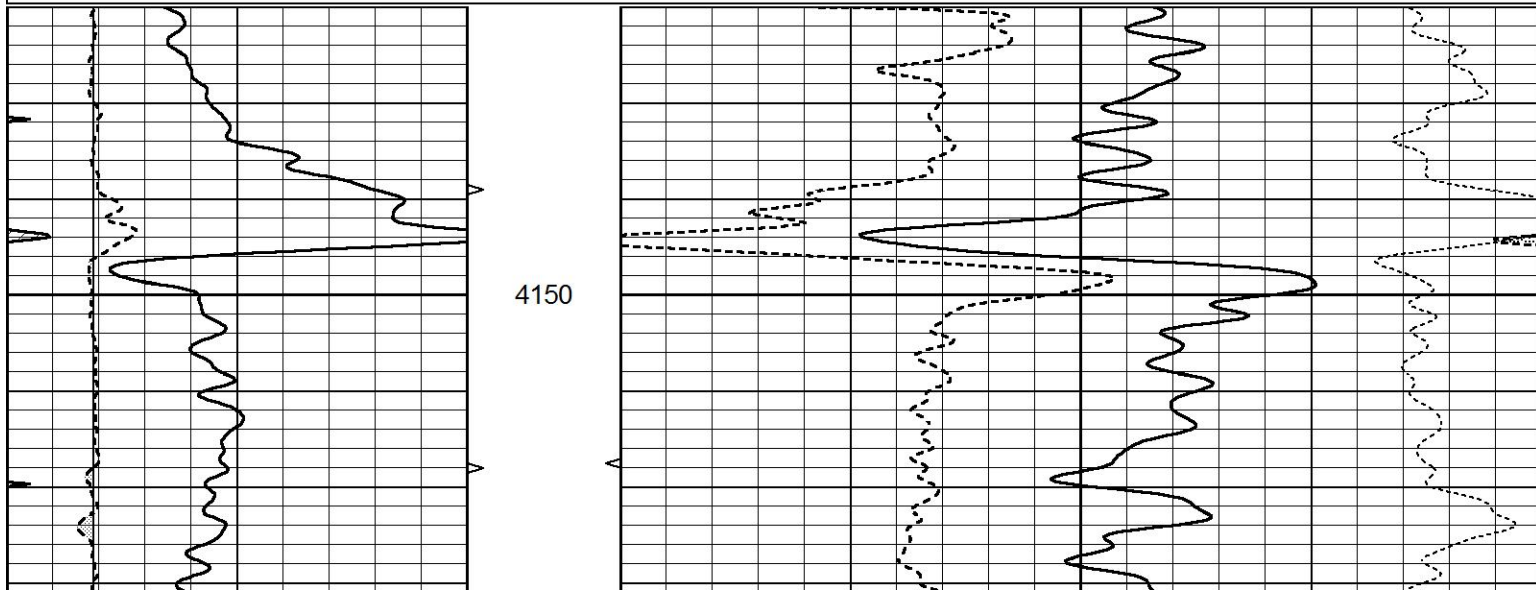


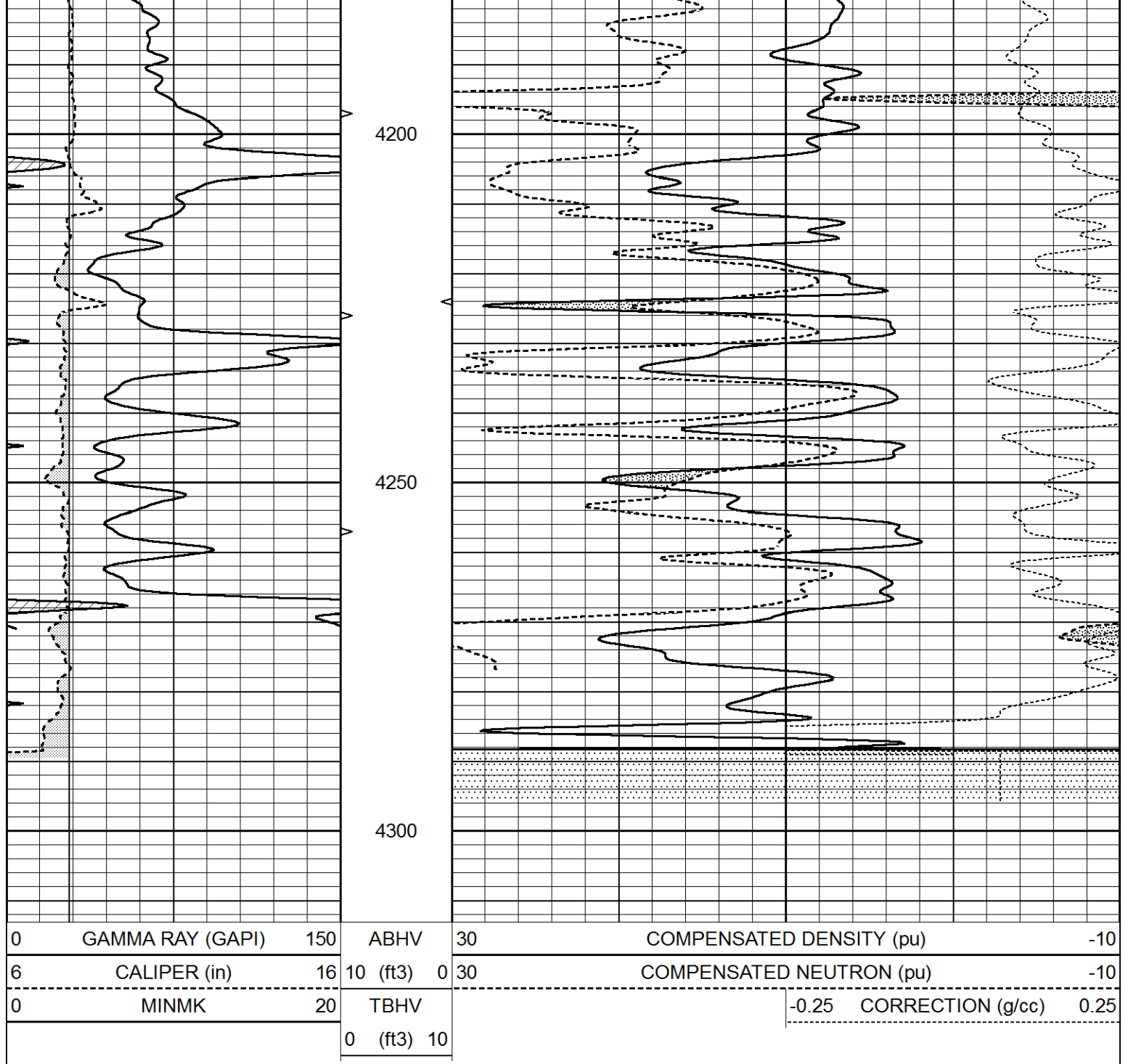


REPEAT SECTION

Database File 4741ddn.db
 Dataset Pathname pass2.1
 Presentation Format den_neu
 Dataset Creation Wed Jun 24 23:09:57 2020
 Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10			





Calibration Report								
Database File	4741ddn.db							
Dataset Pathname	pass2.1							
Dataset Creation	Wed Jun 24 23:09:57 2020							
Dual Induction Calibration Report								
Serial-Model:			FW1410-56-Probe					
Surface Cal Performed:			Mon Jun 15 22:52:02 2020					
Downhole Cal Performed:			Tue Jul 25 12:15:37 2017					
After Survey Verification Performed:			Tue Jul 25 12:15:38 2017					
Surface Calibration								
Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.008	0.765	V	1.000	400.000	mmho/m	400.061	-3.201
Medium	0.056	0.761	V	1.000	464.000	mmho/m	425.187	32.510

Medium	0.000	0.701	V	0.000	101.000	mmho/m	120.101	02.010
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.005	0.624	V	0.000	400.000	mmho/m	645.611	-3.034
Medium	0.012	0.721	V	0.000	464.000	mmho/m	653.591	-7.532
Downhole Calibration								
	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	-0.647	301.329	mmho/m	-0.780	336.378	mmho/m	1.117	-0.058
Medium	38.256	411.013	mmho/m	39.046	441.706	mmho/m	1.080	-2.280
LL3		7.471	V		2500.000	Ohm-m		
		0.001	V		20.000	Ohm-m		
		-7.085	V		5000.000	mmho-m		
After Survey Verification								
	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.647	301.329	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	38.256	411.013	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		1500.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		3745.000	mmho-m		
Litho Density Calibration Report								
Serial: 140703								
Model: V4_10P								
Source Number: 74GBq-19								
Master Calibration			Performed: Thu May 21 10:43:15 2020					
	Background	Aluminum	Magnesium					
Window 1	531.08	5459.71	23833.72	cps				
Window 2	42.08	1230.06	5814.64	cps				
Window 4	232.81	1236.34	5296.40	cps				
Window 5	564.62	8687.43	16546.07	cps				
Window 6	44.20	1453.03	2846.27	cps				
Window 8	270.67	2786.28	5209.33	cps				
Bulk Density	-	2.6020	1.6830	g/cc				
Pe	-	3.0000	2.5070	b/e				
LS Alpha:	: -1.8459	SS Alpha:	: -0.7701	LS CPE:		: 1.1427		
LS Beta:	: 125609.8082	SS Beta:	: 19396.7594	SS CPE:		: 1.5007		
Before Survey Background Counts Verification			Performed: Wed Dec 31 18:00:00 1969					
Window 1	0.00	cps						
Window 2	0.00	cps						
Window 4	0.00	cps						
Window 5	0.00	cps						
Window 6	0.00	cps						
Window 8	0.00	cps						
After Survey Background Counts Verification			Performed: Wed Dec 31 18:00:00 1969					
Window 1	0.00	cps						
Window 2	0.00	cps						
Window 4	0.00	cps						

Window 5	0.00		cps		
Window 6	0.00		cps		
Window 8	0.00		cps		
Lithodensity Caliper Calibration			Performed: Thu May 21 10:43:15 2020		
Results	Readings		References (in)		
Low	High	Low	High	Gain	Offset
4564.4	7712.2	8.0	14.0	0.0	-0.8
Before Survey Caliper Verification			Performed:		
	Reference	Reading			
Caliper (in)	_____	_____			
After Survey Caliper Verification			Performed:		
	Reference	Reading			
Caliper (in)	_____	_____			
Compensated Neutron Calibration Report					
		Serial Number:	080621PMC		
		Tool Model:	NABORS		
PRE-SURVEY VERIFICATION					
Detector	Readings	Measured	Target		
Short Space	cps				
Long Space	cps	pu	pu		
POST-SURVEY VERIFICATION					
Detector	Readings	Measured	Target		
Short Space	cps				
Long Space	cps	pu	pu		
Gamma Ray Calibration Report					
Serial Number:	7				
Tool Model:	Probe1				
Performed:	Tue Dec 10 10:02:55 2019				
Calibrator Value:	1.0	GAPI			
Background Reading:	0.0	cps			
Calibrator Reading:	1.0	cps			
Sensitivity:	0.4800	GAPI/cps			