

COMPENSATED DENSITY/NEUTRON LOG

Company	PROLIFIC RESOURCES	Company	PROLIFIC RESOURCES
Well	FISCHER #1	Well	FISCHER #1
Field	EDDY	Field	EDDY
County	PAWNEE	County	PAWNEE
State	KANSAS	State	KANSAS
Location:	API # : 15-145-21837-00-00	Other Services	DIL/MEL
	1246' FSL & 977' FWL		
	SEC 12 TWP 22S RGE 18W		
Permanent Datum	GROUND LEVEL	Elevation	2038
Log Measured From	KELLY BUSHING 7' A.G.L.		
Drilling Measured From	KELLY BUSHING		
Date	10/18/18		
Run Number	ONE		
Depth Driller	4300		
Depth Logger	4301		
Bottom Logged Interval	4281		
Top Log Interval	3400		
Casing Driller	8 5/8" @ 1108		
Casing Logger	1108		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	8.6/62		
pH / Fluid Loss	10.5/12.6		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.9@72		
Rmt @ Meas. Temp	.66@72		
Rmc @ Meas. Temp	1.08@72		
Source of Rmt / Rmc	MEASURED		
Rm @ BHT	.54@119		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	///		
Maximum Recorded Temperature	119F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	GUS PFANENSTIEL		
Witnessed By	JEFFREY A. BURK		

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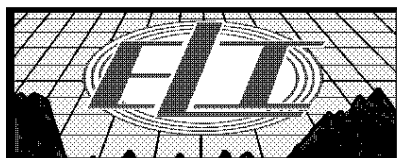
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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, HAYS, KS. (785) 628-6395

DIRECTIONS

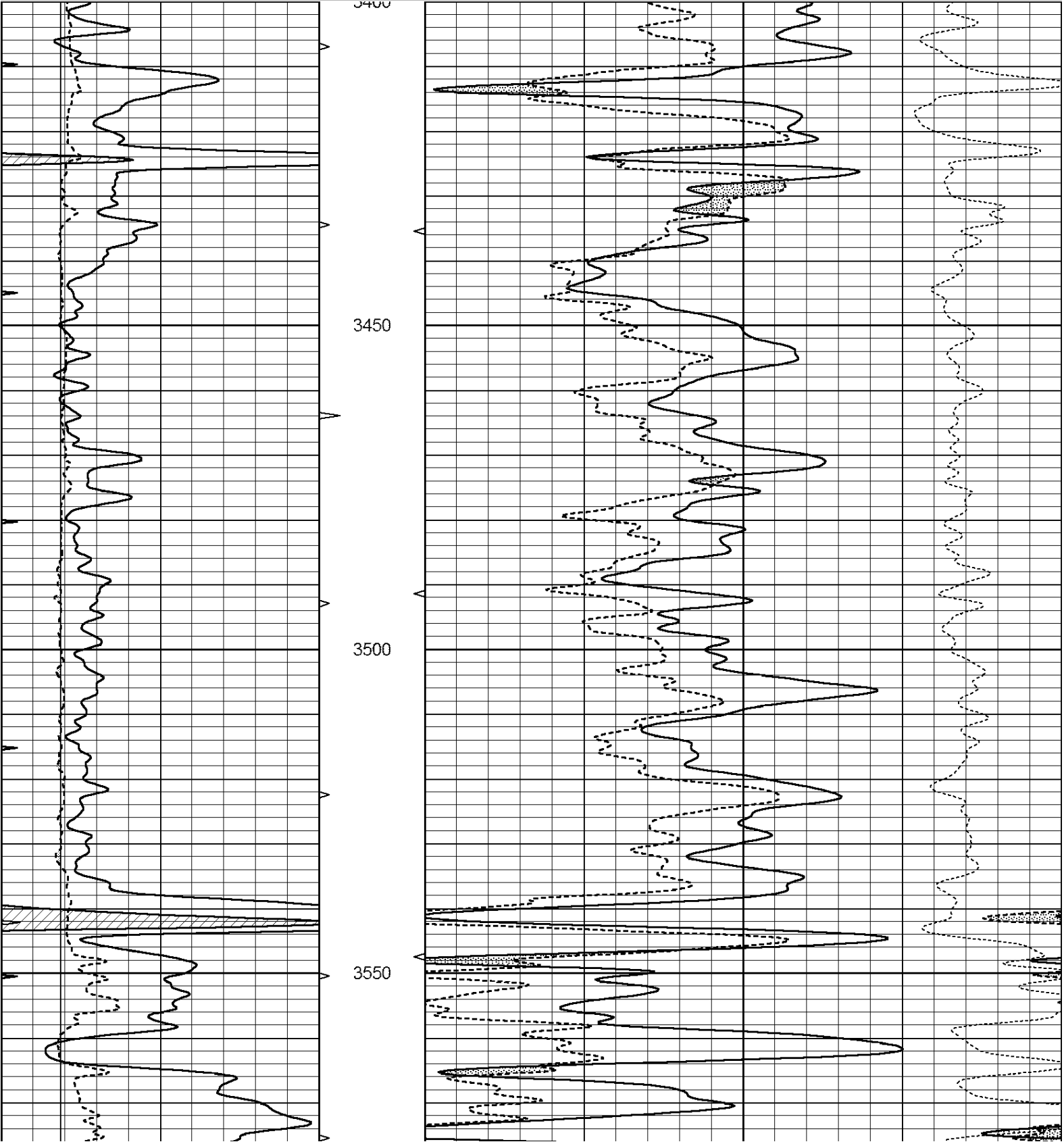
FROM FORT LARNED GO WEST 1/2 MILE TO 180 RD.
SOUTH TO L RD., 3 WEST TO 210 RD
SOUTH 1 MILE, 3/4 EAST, NORTH INTO.

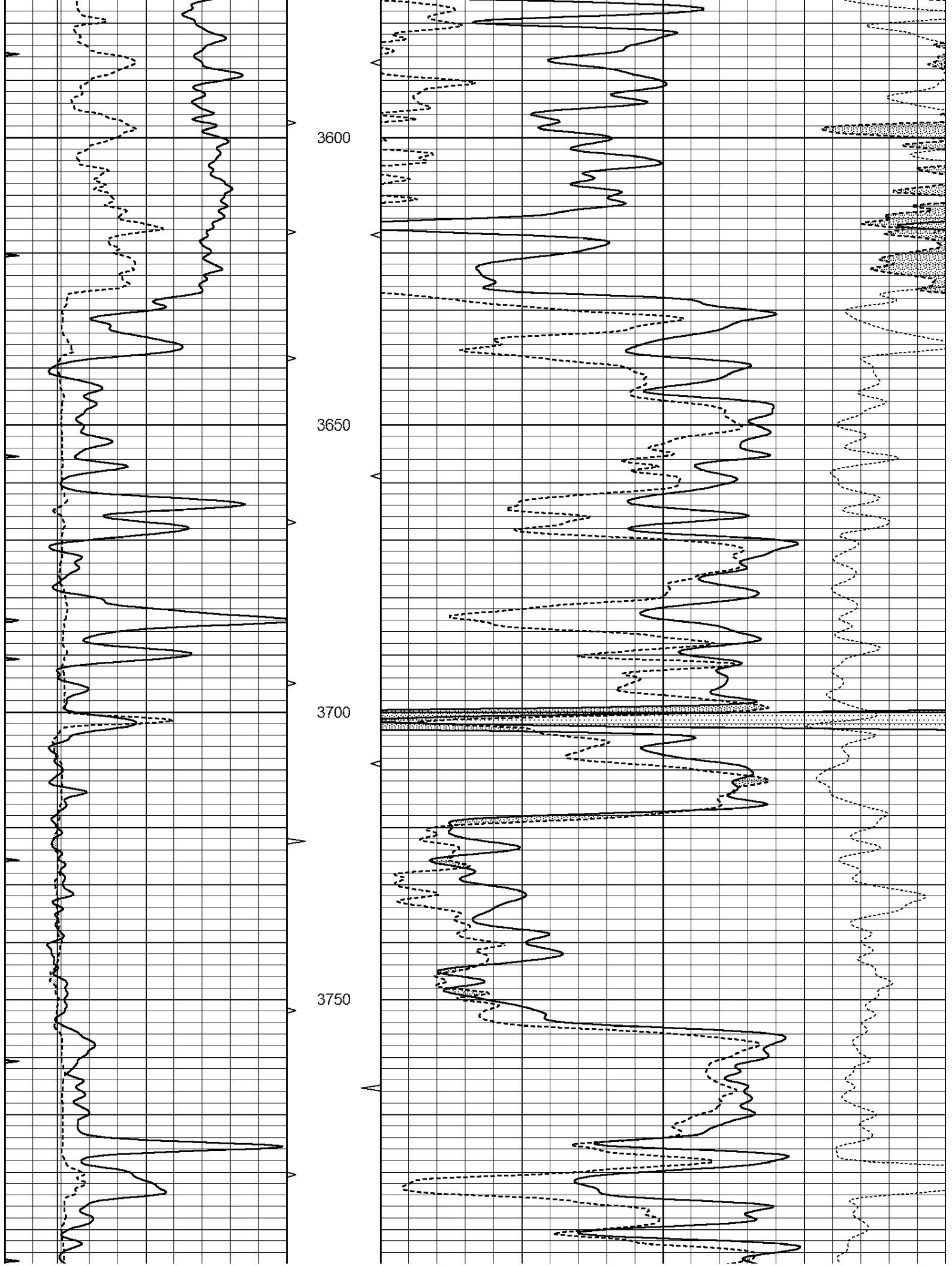


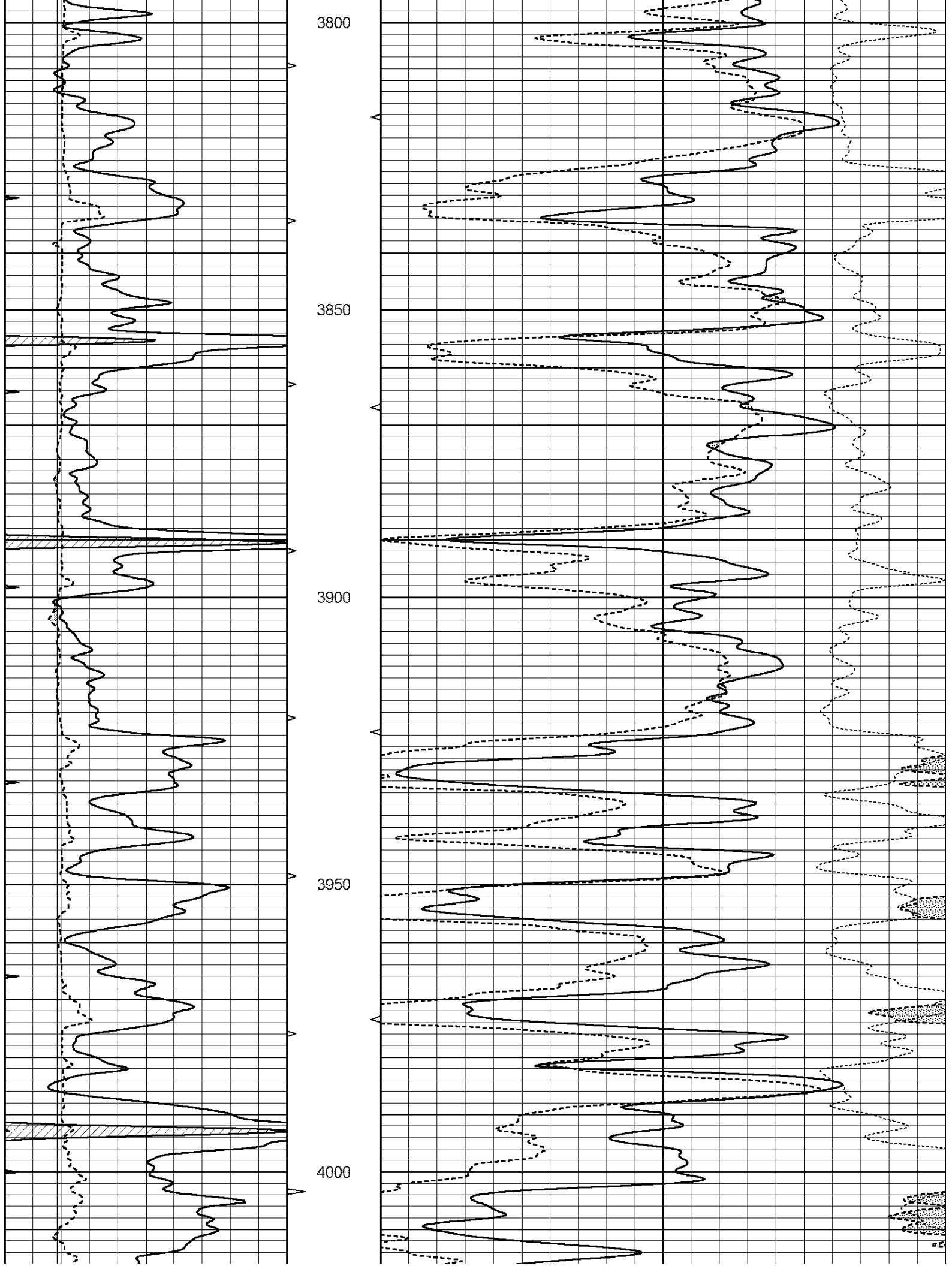
MAIN PASS

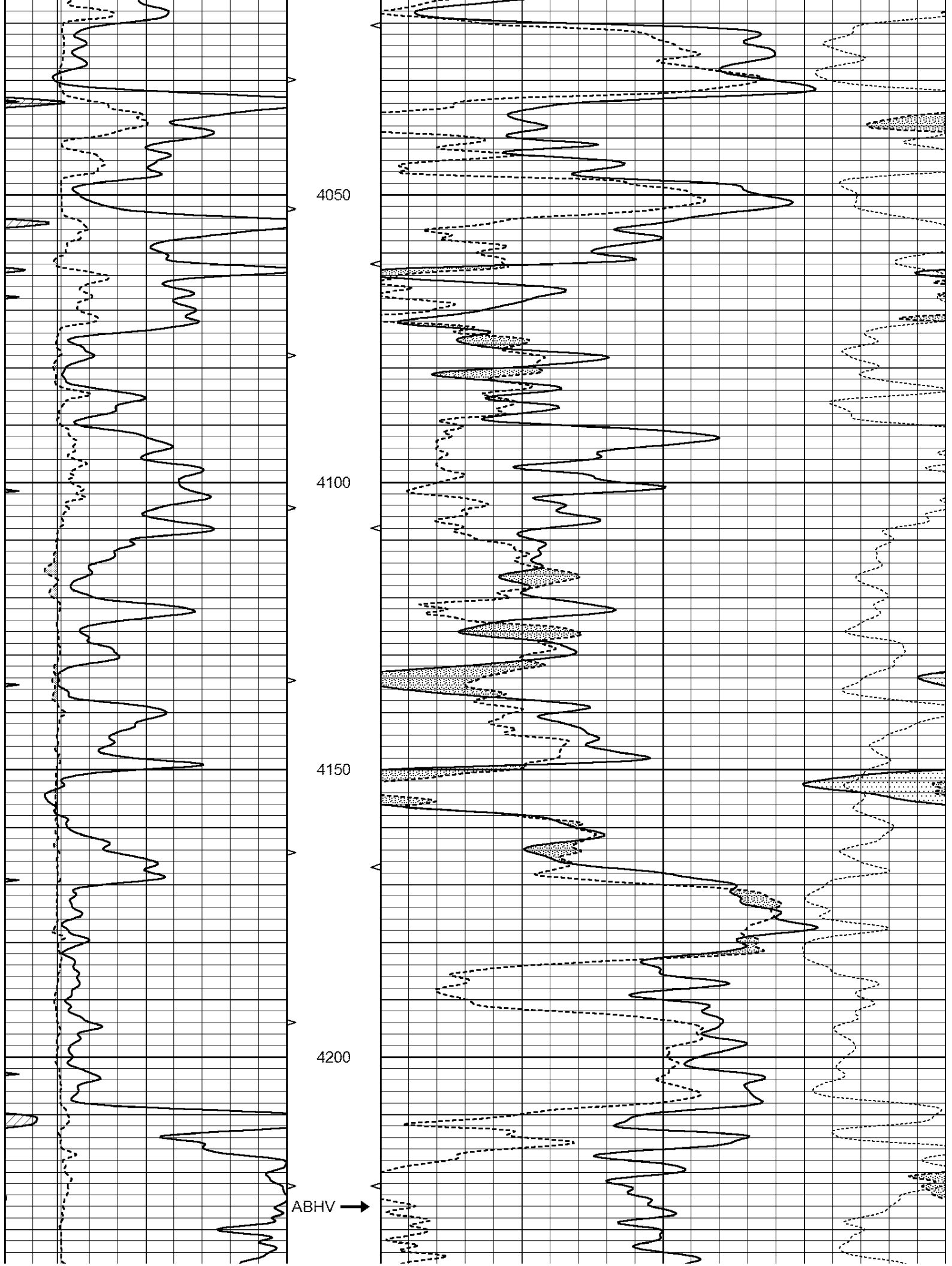
Database File: 2924ddn.db
Dataset Pathname: pass3POR
Presentation Format: den_neu
Dataset Creation: Thu Oct 18 06:01:01 2018
Charted by: Depth in Feet scaled 1:240

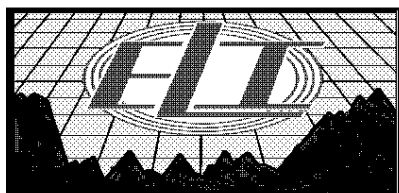
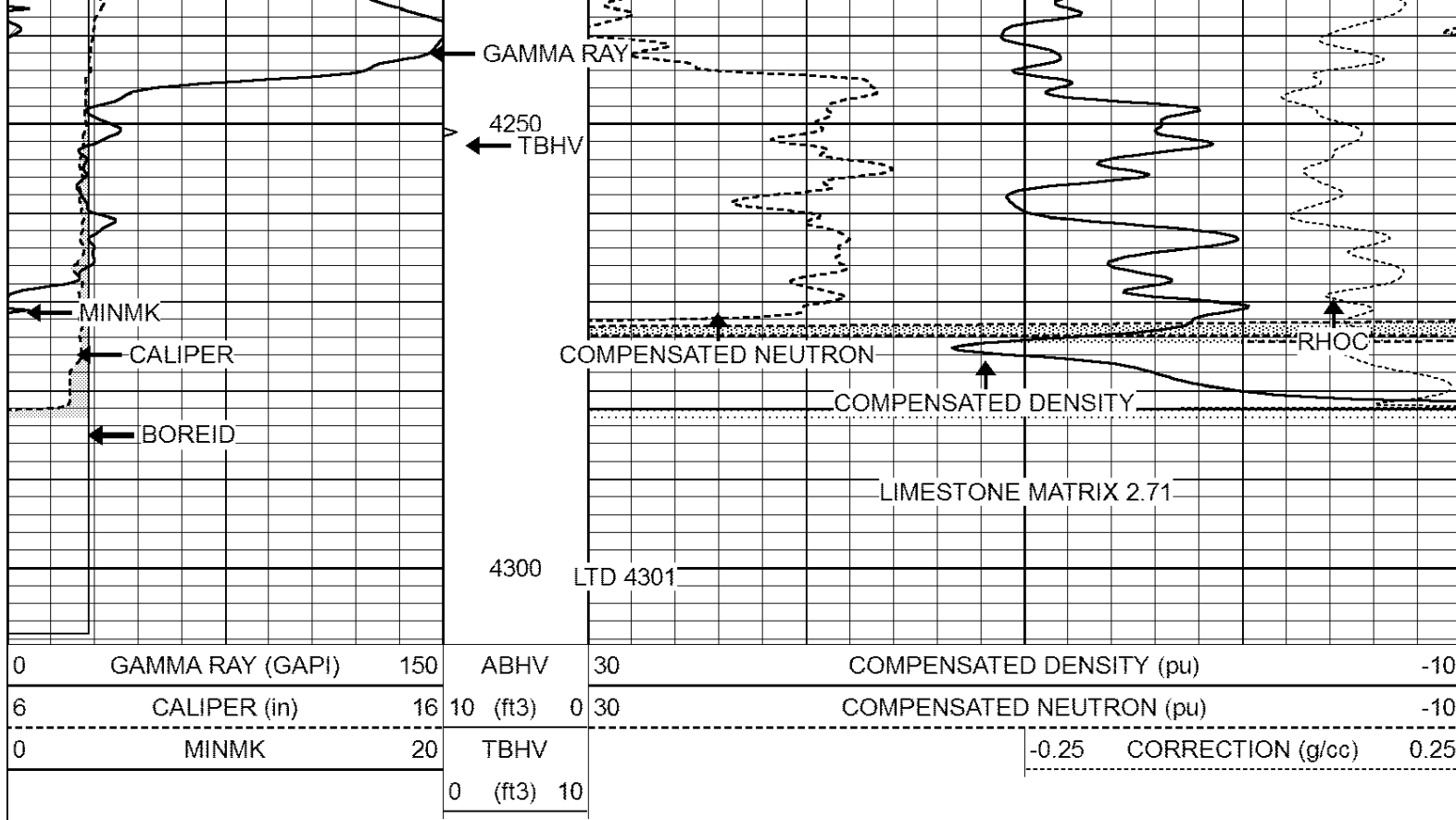
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0 30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		







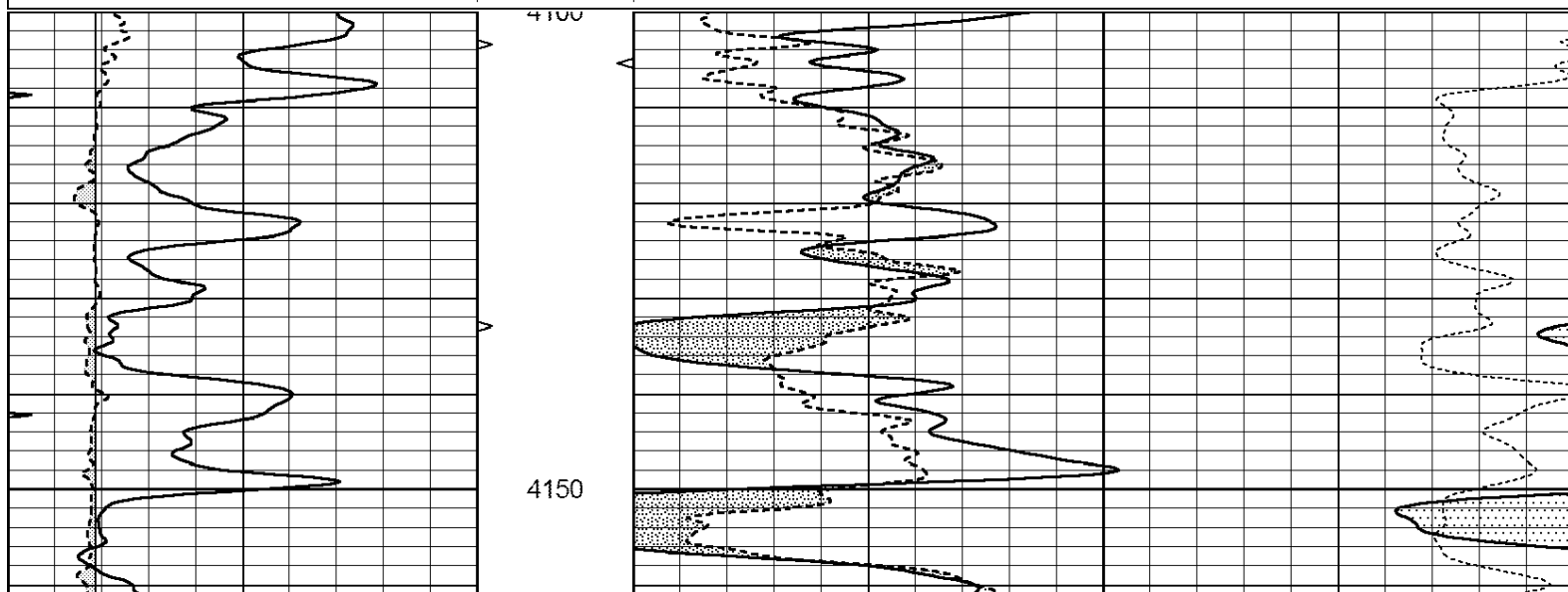


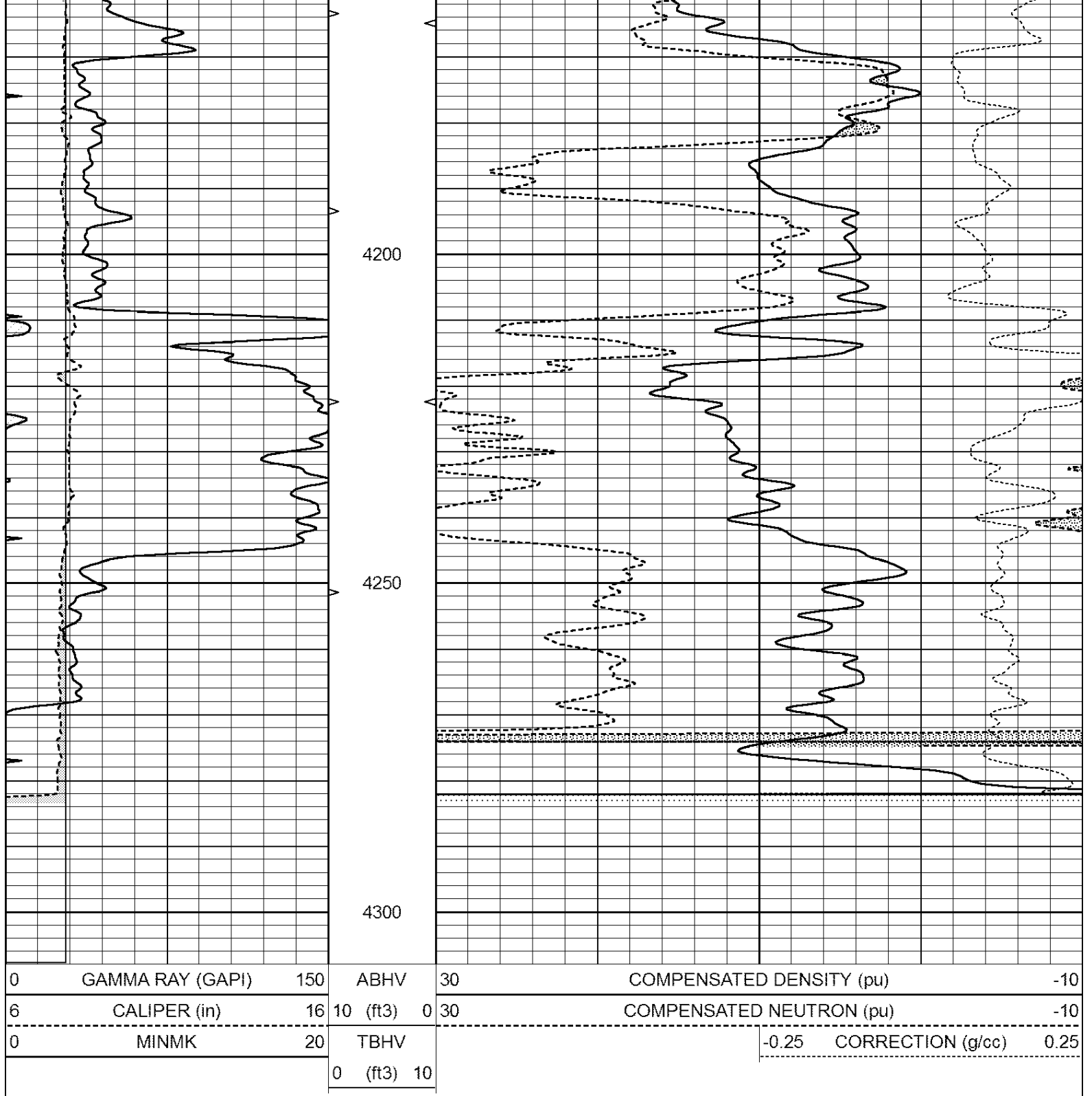


REPEAT SECTION

Database File: 2924ddn.db
 Dataset Pathname: pass2.1
 Presentation Format: den_neu
 Dataset Creation: Thu Oct 18 04:49:50 2018
 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:	2924ddn.db		
Dataset Pathname:	pass2.1		
Dataset Creation:	Thu Oct 18 04:49:50 2018		
Dual Induction Calibration Report			
Serial-Model:	PROBE8-DILG		
Surface Cal Performed:	Mon Sep 10 14:28:35 2018		
Downhole Cal Performed:	Mon Sep 10 14:28:38 2018		
After Survey Verification Performed:	Mon Sep 10 14:28:40 2018		
Surface Calibration	Readings	References	Results

Loop:	Air	Loop		Air	Loop		m	b
Deep	0.015	0.648	V	0.000	400.000	mmho/m	620.000	0.000
Medium	0.029	0.796	V	0.000	464.000	mmho/m	590.000	-12.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.017	0.657	V	0.000	400.000	mmho/m	625.153	-10.619
Medium	0.016	0.757	V	0.000	464.000	mmho/m	625.992	-9.739

Downhole Calibration								
Readings			References			Results		
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	2.011	405.777	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	7.590	503.393	mmho/m	1.000	0.000
LL3		7.500	V		1500.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		3800.000	mmho-m		

After Survey Verification								
Readings			Targets			Results		
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
LL3		1.000	Ohm-m		1.000	Ohm-m		
		0.000	Ohm-m		0.000	Ohm-m		
		1.000	mmho-m		1.000	mmho-m		

Litho Density Calibration Report								
Serial: 006			Model: PRB					

Master Calibration					Performed Thu Sep 27 12:07:11 2018			
	Background	Magnesium	Aluminum	Sandstone				
Window 1	1185.6	7077.4	2520.9	8182.4	cps			
Window 2	1116.8	5910.1	2163.2	6739.4	cps			
Window 3	880.1	3145.8	1325.0	3461.2	cps			
Window 4	289.5	295.8	290.8	295.3	cps			
Long Space	0.0	4793.3	1046.5	5622.7	cps			
Short Space	2.9	1608.0	1038.9	1622.7	cps			
Rho		1.7100	2.5960	1.3800	g/cc			
Pe		0.0000	2.5700	1.5500				
Rib Angle	: 44.0	Rib Slope	: 0.965	Density/Spine Ratio	: 0.560			
Spine Angle	: 74.0	Spine Slope	: 3.484	Spine Intercept	: -17.2			

Before Survey Verification					Performed Wed Dec 31 18:00:00 1969			
Window 1	0.0	0.0	0.0	0.0	cps			
Window 2	0.0	0.0	0.0	0.0	cps			
Window 3	0.0	0.0	0.0	0.0	cps			
Window 4	0.0	0.0	0.0	0.0	cps			
Long Space	0.0	0.0	0.0	0.0	cps			
Short Space	0.0	0.0	0.0	0.0	cps			
Measured Rho		0.0000	0.0000	0.0000	g/cc			
Measured Correction		0.0000	0.0000	0.0000	g/cc			
Measured Pe			0.0000	0.0000				

After Survey Verification					Performed Wed Dec 31 18:00:00 1969			
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Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

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Compensated Neutron Calibration Report
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Serial Number:	6l
Tool Model:	G

CALIBRATION					
	Detector	Readings		Target	Normalization
	Short Space	1.00	cps	1.00	cps 1.0000
	Long Space	1.00	cps	1.00	cps 1.0000

PRE-SURVEY VERIFICATION					
	Detector	Readings		Measured	Target
1)	Short Space		cps		
	Long Space		cps	pu	pu
2)	Short Space		cps		
	Long Space		cps	pu	
3)	Short Space		cps		
	Long Space		cps	pu	

POST-SURVEY VERIFICATION					
	Detector	Readings		Measured	Target
1)	Short Space		cps		
	Long Space		cps	pu	pu
2)	Short Space		cps		
	Long Space		cps	pu	pu
3)	Short Space		cps		
	Long Space		cps	pu	pu

Gamma Ray Calibration Report

Serial Number:	GR6	
Tool Model:	OPEN	
Performed:	Mon Sep 10 14:29:23 2018	
Calibrator Value:	150.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	276.0	cps
Sensitivity:	0.5500	GAPI/cps