



COMPENSATED DENSITY/NEUTRON PE LOG

Company DARRAH OIL COMPANY, LLC	
Well	A.A. REDETZKE #10
Field	KRAFT-PURSA
County	BARTON
State	KANSAS
Location: API #: 15-009-26344-00-00	
1059' FNL & 2135' FEL SE/SW/NW/NE SEC 19 TWP 16S RGE 11W	
Permanent Datum	GROUND LEVEL Elevation 1901
Log Measured From	KELLY BUSHING 5' A.G.L
Drilling Measured From	KELLY BUSHING
Other Services DIL/MEL SON	
Elevation K.B. 1906 D.F. 1904 G.L. 1901	
Date	4/20/22
Run Number	ONE
Depth Driller	3495
Depth Logger	3496
Bottom Logged Interval	3472
Top Log Interval	2700
Casing Driller	8 5/8" @ 476
Casing Logger	476
Bit Size	7 7/8
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9/62
PH / Fluid Loss	10/8.8
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.7@70F
Rmf @ Meas. Temp	.53@70F
Rmc @ Meas. Temp	.84@70F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	.44@111F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	////
Maximum Recorded Temperature	111F
Equipment Number	3802
Location	HAYS, KANSAS
Recorded By	TJ DREILING
Witnessed By	ROGER MARTIN

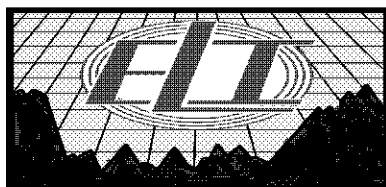
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on 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

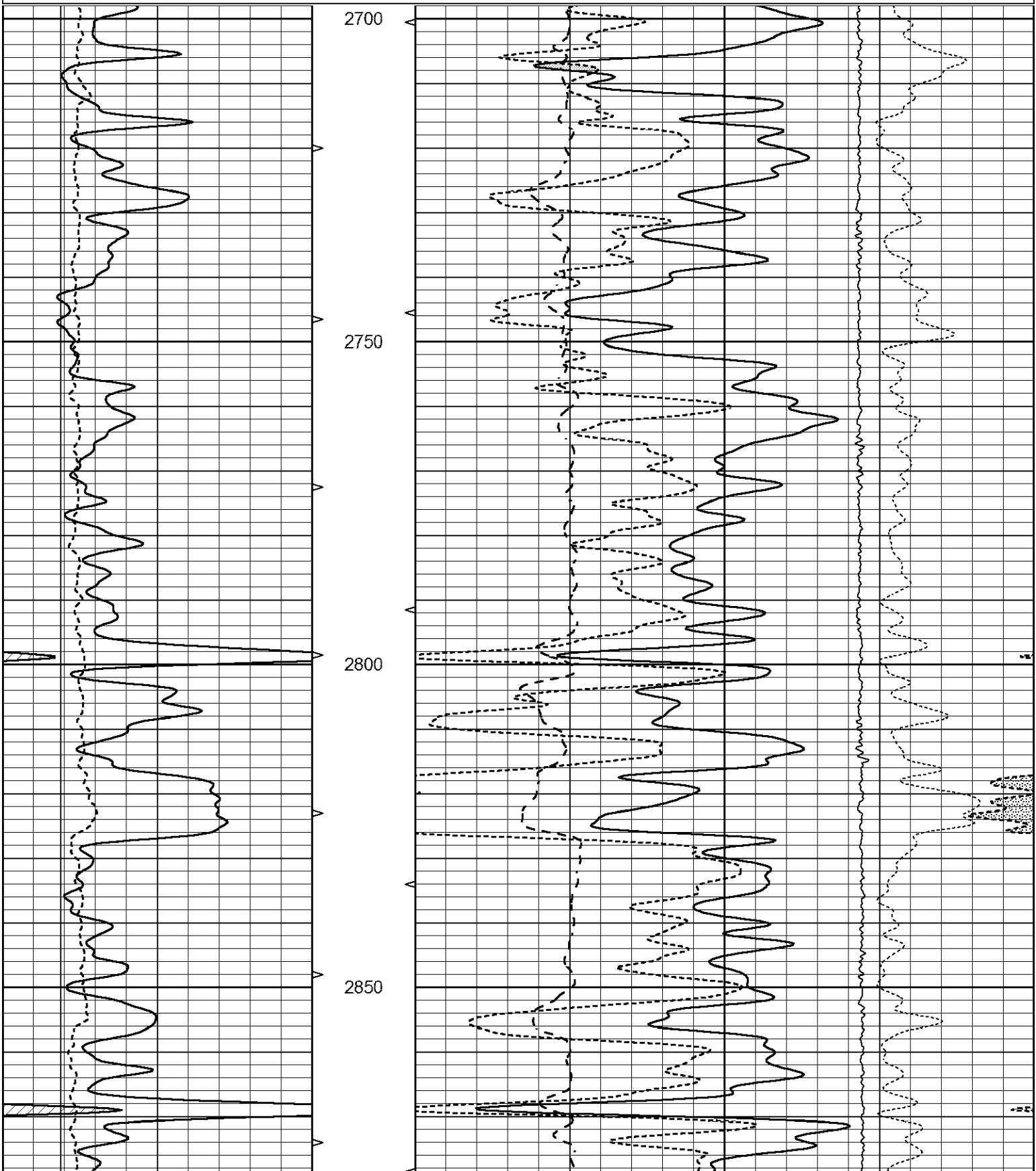
-BEAVER KANSAS EAST 5 MILES TO NE 110 AVE.
-NORTH 1/2 MILE, -FOLLOW LEASE ROAD WEST INTO

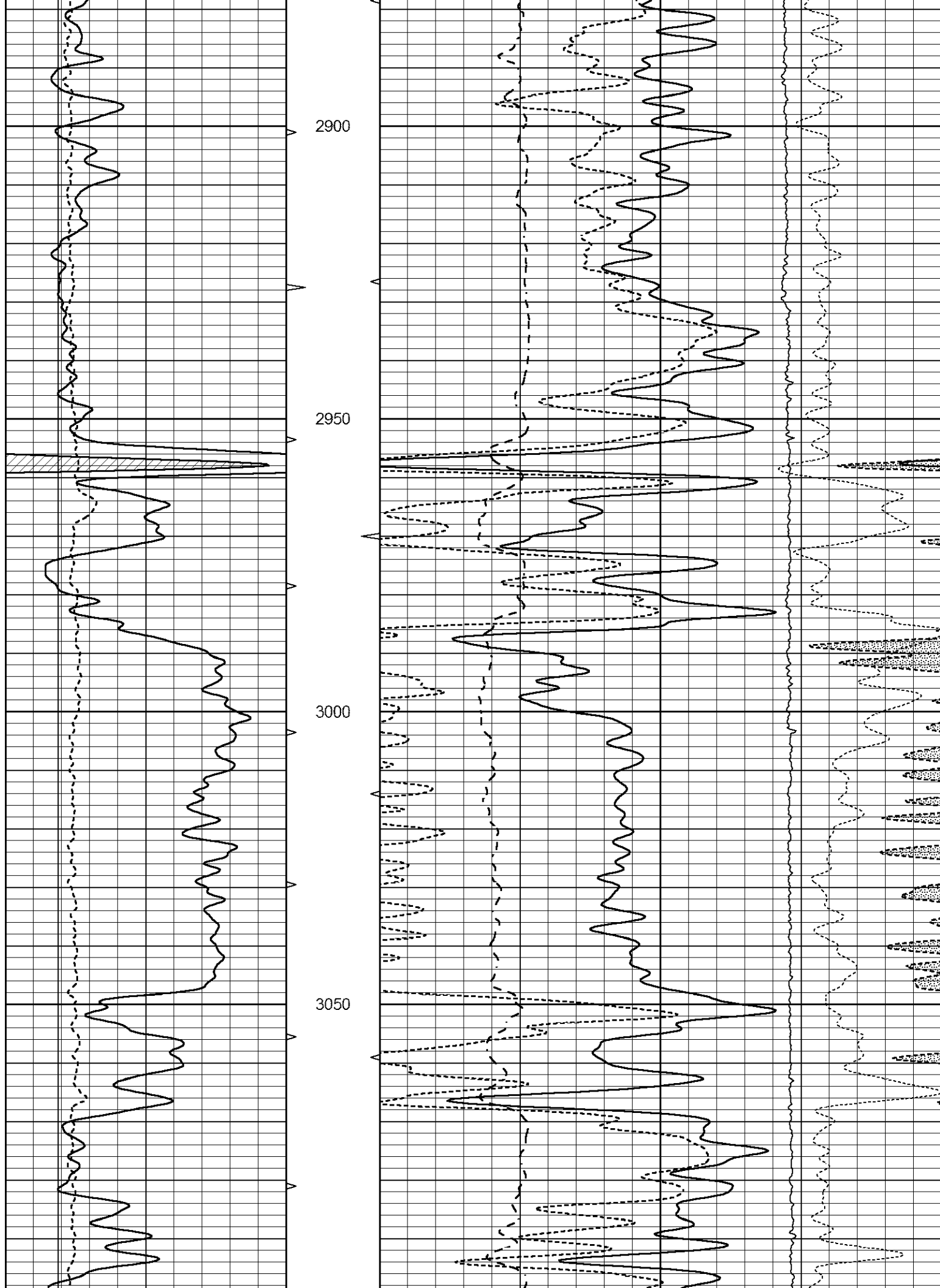


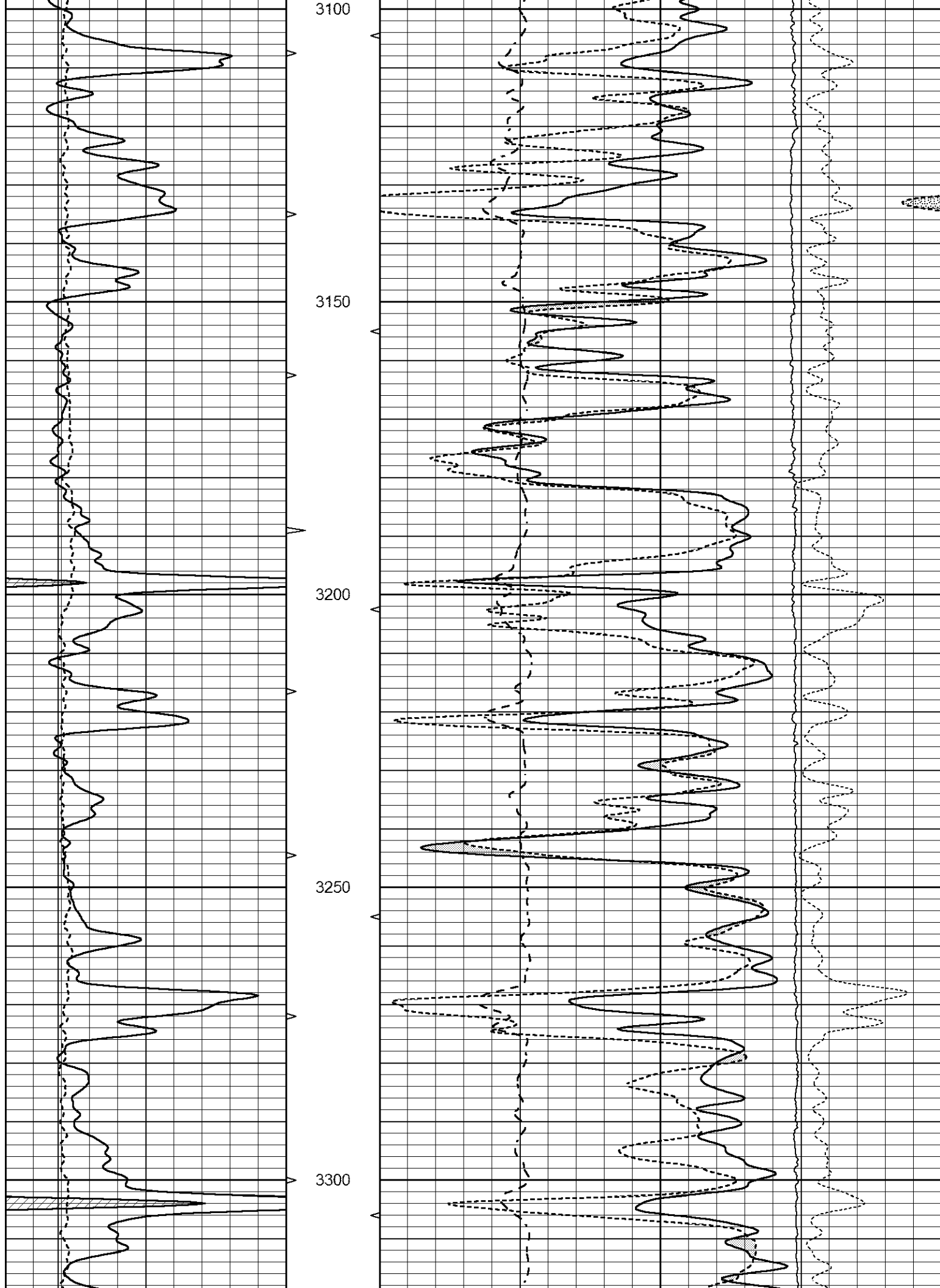
MAIN SECTION

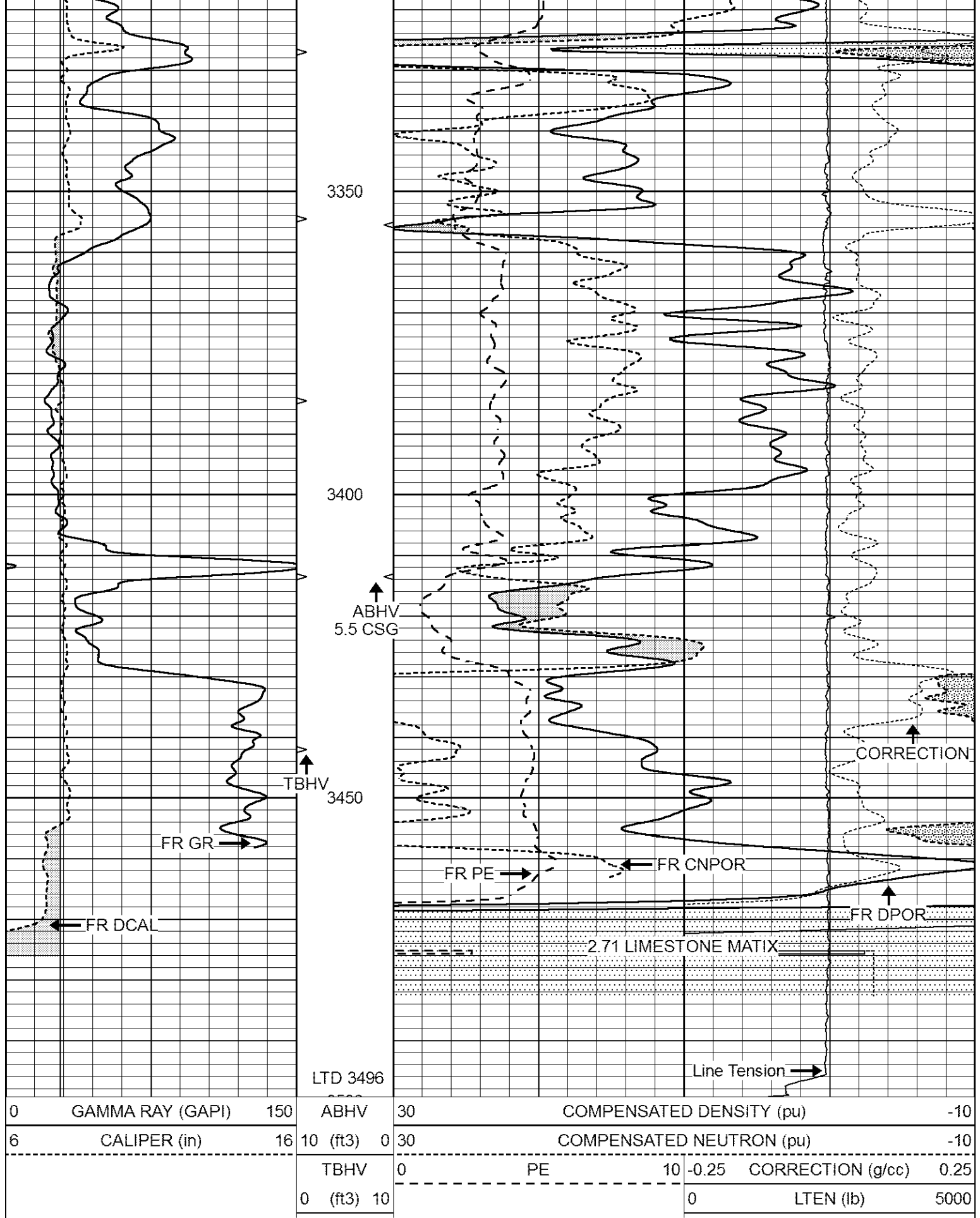
Database File	6390pe.db
Dataset Pathname	pass3.1
Presentation Format	_ldt_neu
Dataset Creation	Wed Apr 20 17:02:49 2022
Charted by	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0	COMPENSATED NEUTRON (pu)	-10
			TBHV	0	PE	10
			0 (ft3)	10	-0.25	CORRECTION (g/cc)
					0	LTEN (lb)
					5000	





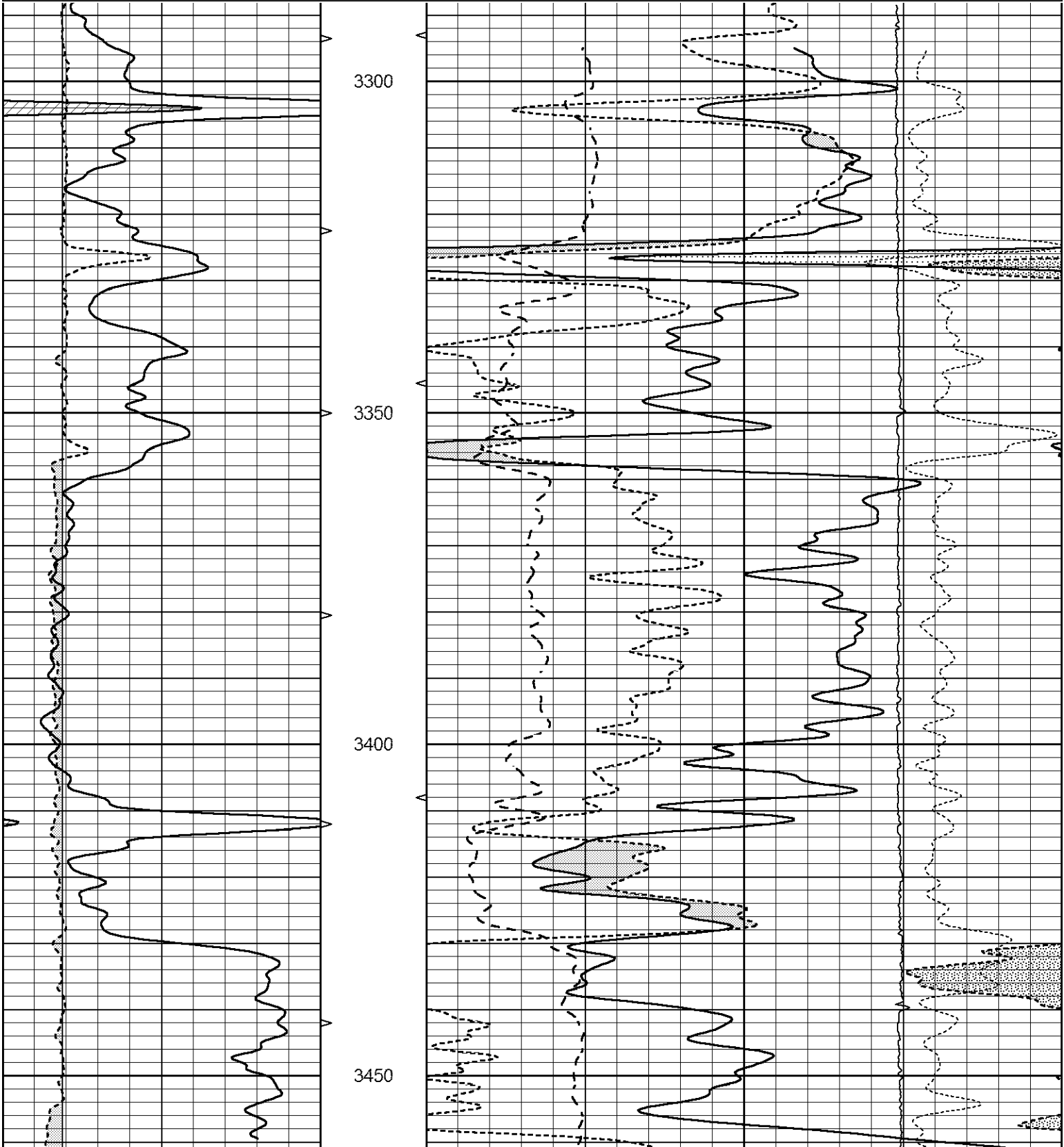


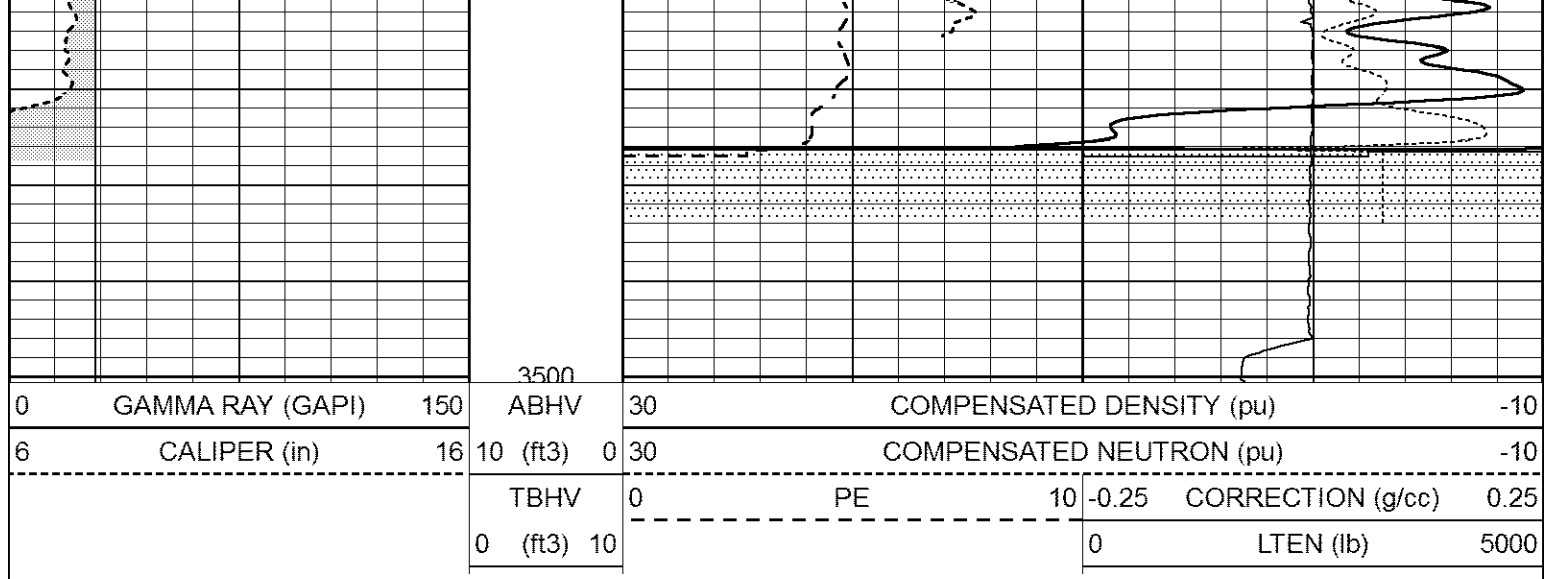


REPEAT SECTION

Database File 6390pe.db
Dataset Pathname pass2.1
Presentation Format _ldt_neu
Dataset Creation Wed Apr 20 17:00:46 2022
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
			TBHV	0	PE	10 -0.25 CORRECTION (g/cc) 0.25
			0 (ft3) 10	0 LTEN (lb) 5000		





Calibration Report									
Database File		6390pe.db							
Dataset Pathname		pass3.1							
Dataset Creation		Wed Apr 20 17:02:49 2022							
Dual Induction Calibration Report									
		Serial-Model:				FW1410-55-Probe			
		Surface Cal Performed:				Sat Jan 29 11:57:42 2022			
		Downhole Cal Performed:				Tue Feb 19 11:44:24 2019			
		After Survey Verification Performed:				Tue Feb 19 11:44:27 2019			
Surface Calibration									
		Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b	
Deep	0.011	0.656	V	1.000	400.000	mmho/m	618.595	-5.524	
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	612.856	1.197	
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	0.007	0.649	V	0.000	400.000	mmho/m	623.784	-4.595	
Medium	0.004	0.743	V	0.000	464.000	mmho/m	627.284	-2.251	
Downhole Calibration									
		Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'	
Deep	-0.824	395.917	mmho/m	-0.976	397.550	mmho/m	1.004	-0.149	
Medium	3.565	471.327	mmho/m	3.468	471.590	mmho/m	1.001	-0.099	
LL3		7.503	V		1500.000	Ohm-m			
		0.001	V		20.000	Ohm-m			
		-7.481	V		3745.000	mmho-m			
After Survey Verification									
		Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'	
Deep	0.000	0.000	mmho/m	-0.824	395.917	mmho/m	1.000	0.000	
Medium	0.000	0.000	mmho/m	3.565	471.327	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			

Master Calibration

Performed: Fri Feb 18 15:41:27 2022

	Background	Aluminum	Magnesium		
Window 1	515.75	5443.58	23734.91	cps	
Window 2	41.45	1226.32	5757.32	cps	
Window 4	224.78	1223.03	5315.97	cps	
Window 5	549.25	7983.61	15349.73	cps	
Window 6	43.12	1271.88	2496.98	cps	
Window 8	261.02	2595.65	4928.92	cps	
Bulk Density	-	2.6020	1.6830	g/cc	
Pe	-	3.0000	2.5070	b/e	
LS Alpha:	: -1.8571	SS Alpha:	: -0.7875	LS CPE:	: 1.1396
LS Beta:	: 128618.9672	SS Beta:	: 18780.4869	SS CPE:	: 1.5966

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: Fri Feb 18 15:41:27 2022

Results		Readings		References (in)			
Low	High	Low	High	Gain	Offset		
8107.9	11082.1	8.0	14.0	0.0	-7.7		

Before Survey Caliper Verification

Performed:

Reference	Reading
_____	_____
Caliper (in)	

After Survey Caliper Verification

Performed:

Reference	Reading
_____	_____
Caliper (in)	

Compensated Neutron Calibration Report

		Serial Number: Tool Model:	080621PMC 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 Jan 19 17:50:08 2021		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.5300	GAPI/cps	