



**COMPENSATED
DENSITY/NEUTRON
PE LOG**

Company DIXON OPERATING COMPANY, LLC.
Well BYER #1-3
Field MIKES METEOR
County STAFFORD
State KANSAS

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Field MIKES METEOR
County STAFFORD State KANSAS

Location: API #: 15-185-23986-0000
2310' FSL & 350' FEL
SEC 3 TWP 23S RGE 12W
Permanent Datum GROUND LEVEL Elevation 1831
Log Measured From KELLY BUSHING 9' A.G.L
Drilling Measured From KELLY BUSHING
Other Services
DILMEL
SONIC
Elevation
K.B. 1840
D.F. 1838
G.L. 1831

Date	7/1/17		
Run Number	ONE		
Depth Driller	3880		
Depth Logger	3874		
Bottom Logged Interval	3850		
Top Log Interval	2800		
Casing Driller	8 5/8" @ 367'		
Casing Logger	366'		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 8200 PPM	
Density / Viscosity	9.2/51		
PH / Fluid Loss	9.0/10.6		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.60 @ 85F		
Rmt @ Meas. Temp	.45 @ 85F		
Rmc @ Meas. Temp	.72 @ 85F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.44 @ 115F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	115F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	CHUCK SCHMALTZ		

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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

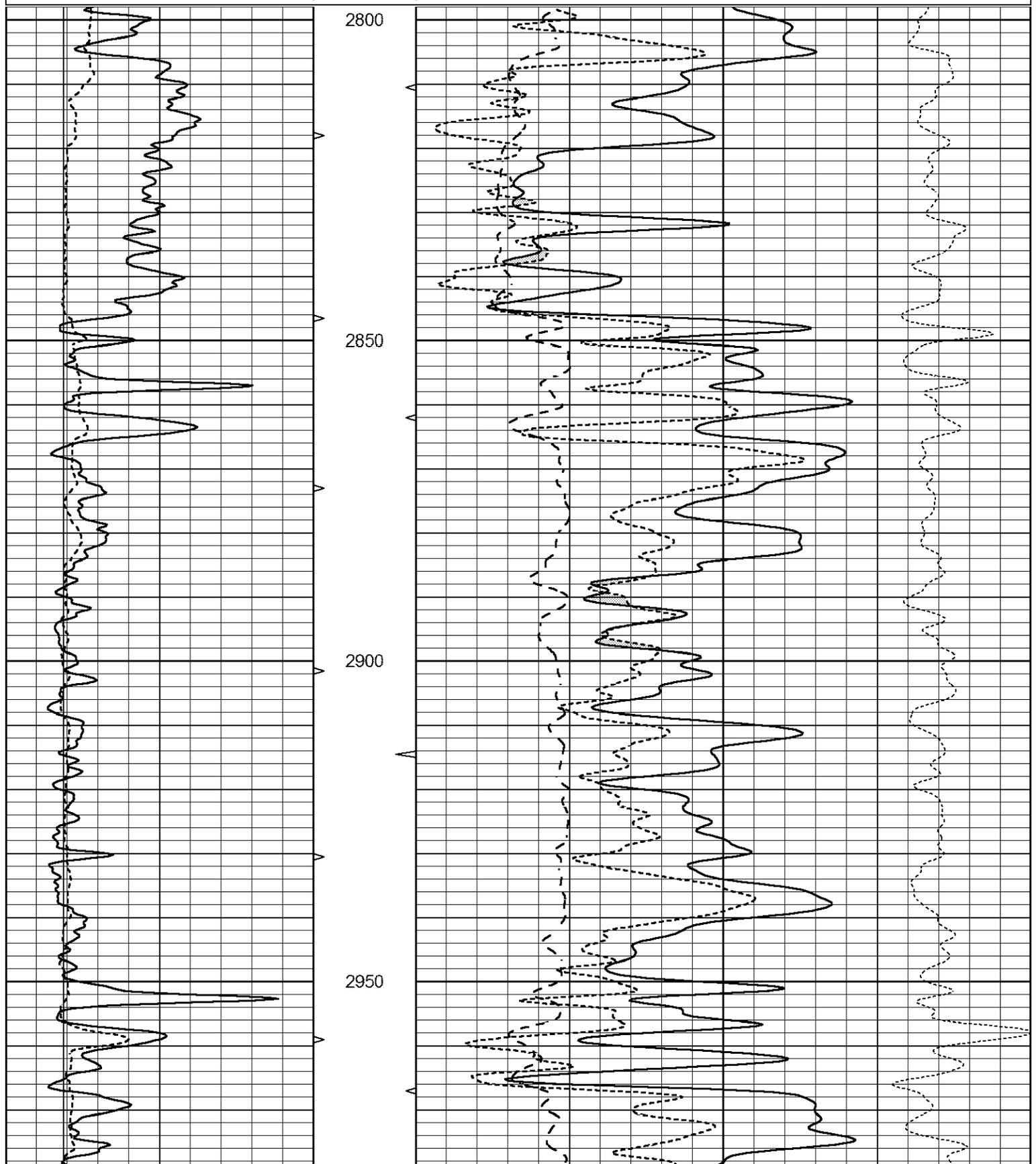
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
HWY 281 & HWY 19 - SOUTH TO 70TH RD. (QUIVIRA BLKTOP)
7 EAST TO 70 RD. - 1 1/4 NORTH - WEST INTO

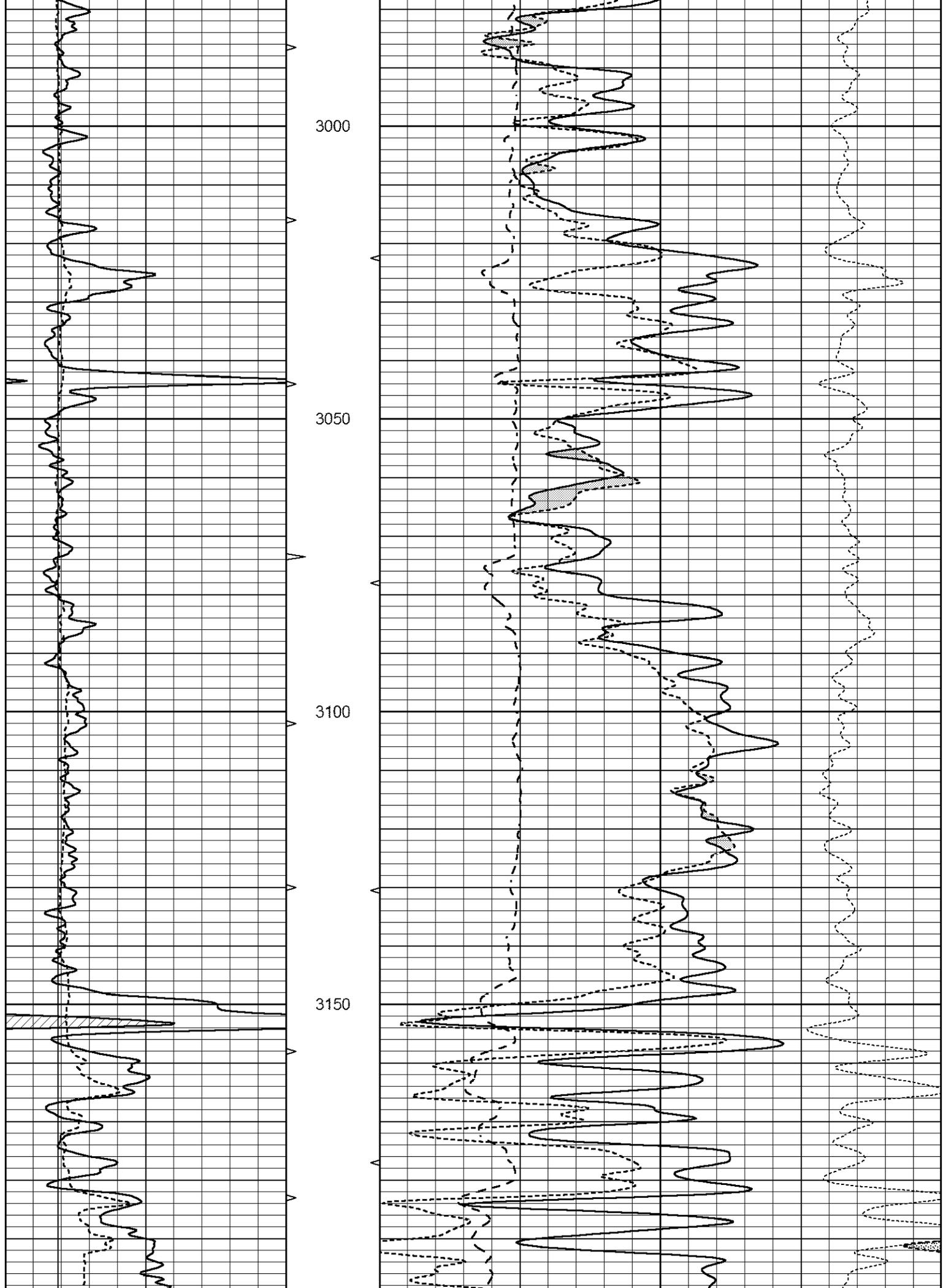


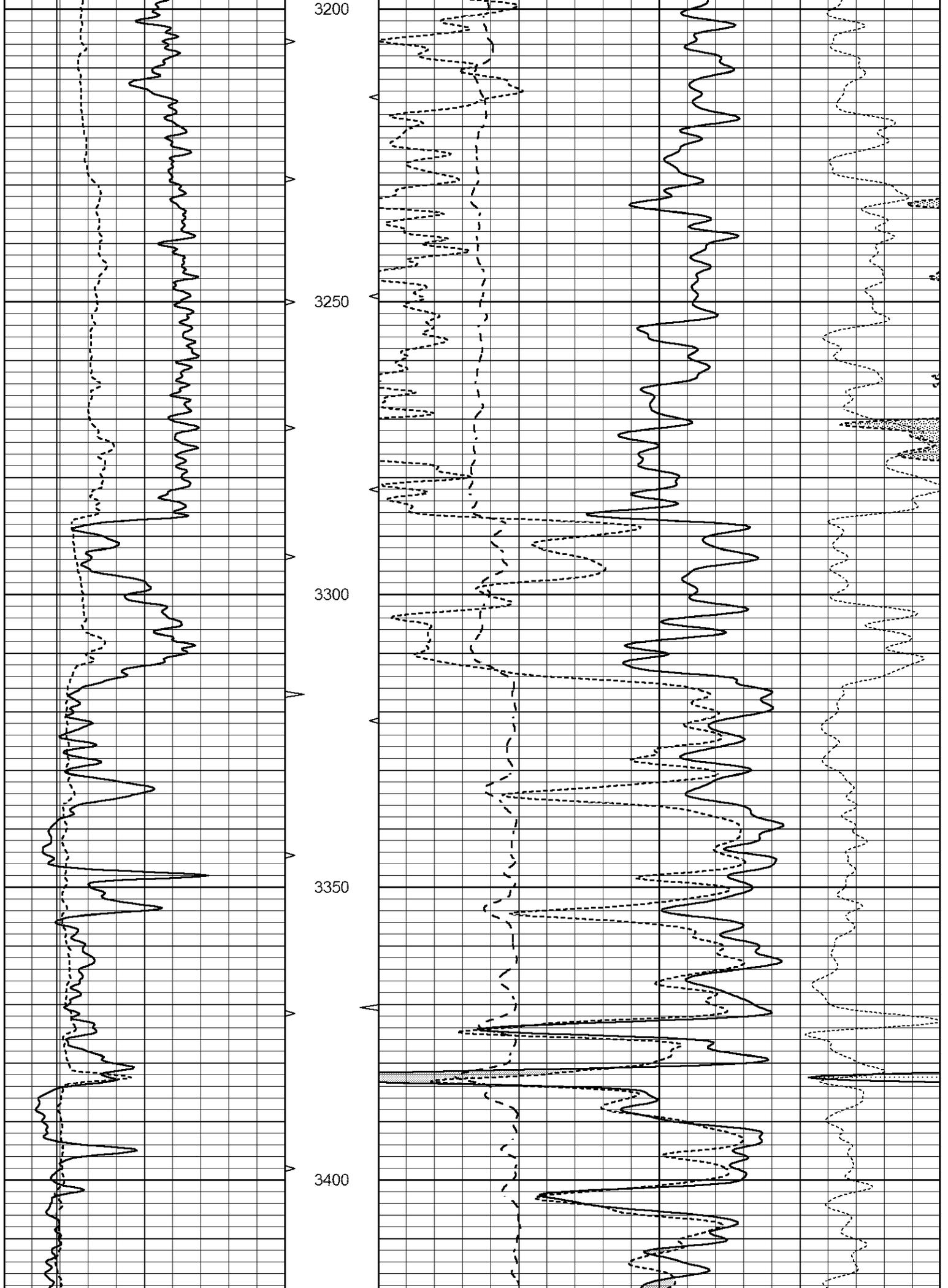
MAIN SECTION

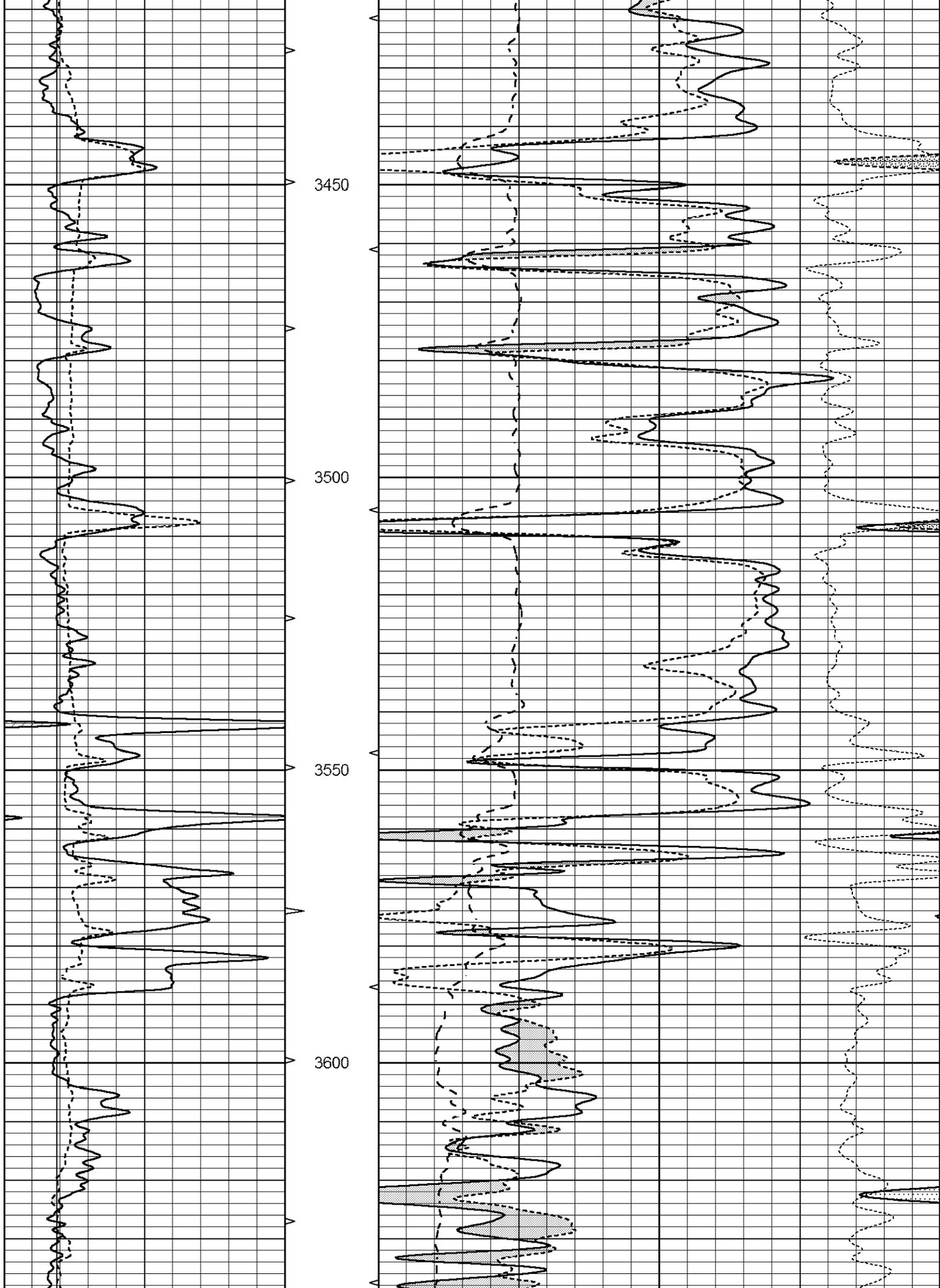
Database File 1566pe8.db
 Dataset Pathname pass3.1
 Presentation Format _ldt_neu
 Dataset Creation Sat Jul 01 06:29:31 2017
 Charted by Depth in Feet scaled 1:240

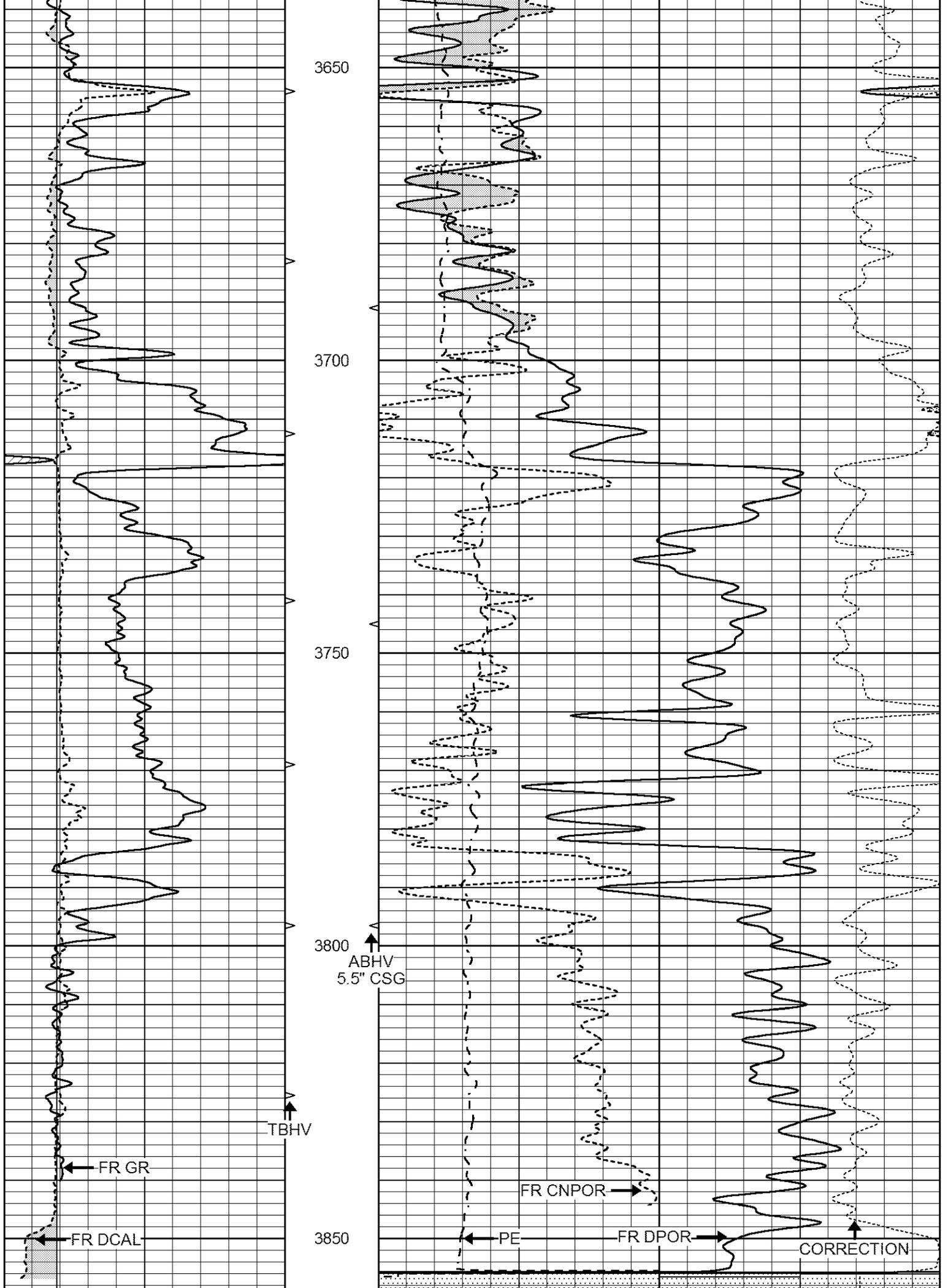
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)		-10
6	CALIPER (in)	16	10 (ft3)	0	COMPENSATED NEUTRON (pu)		-10
			TBHV	0	PE	10	-0.25
			0 (ft3)	10	CORRECTION (g/cc)		0.25











2.71 LIMESTONE MATRIX

LTD 3874

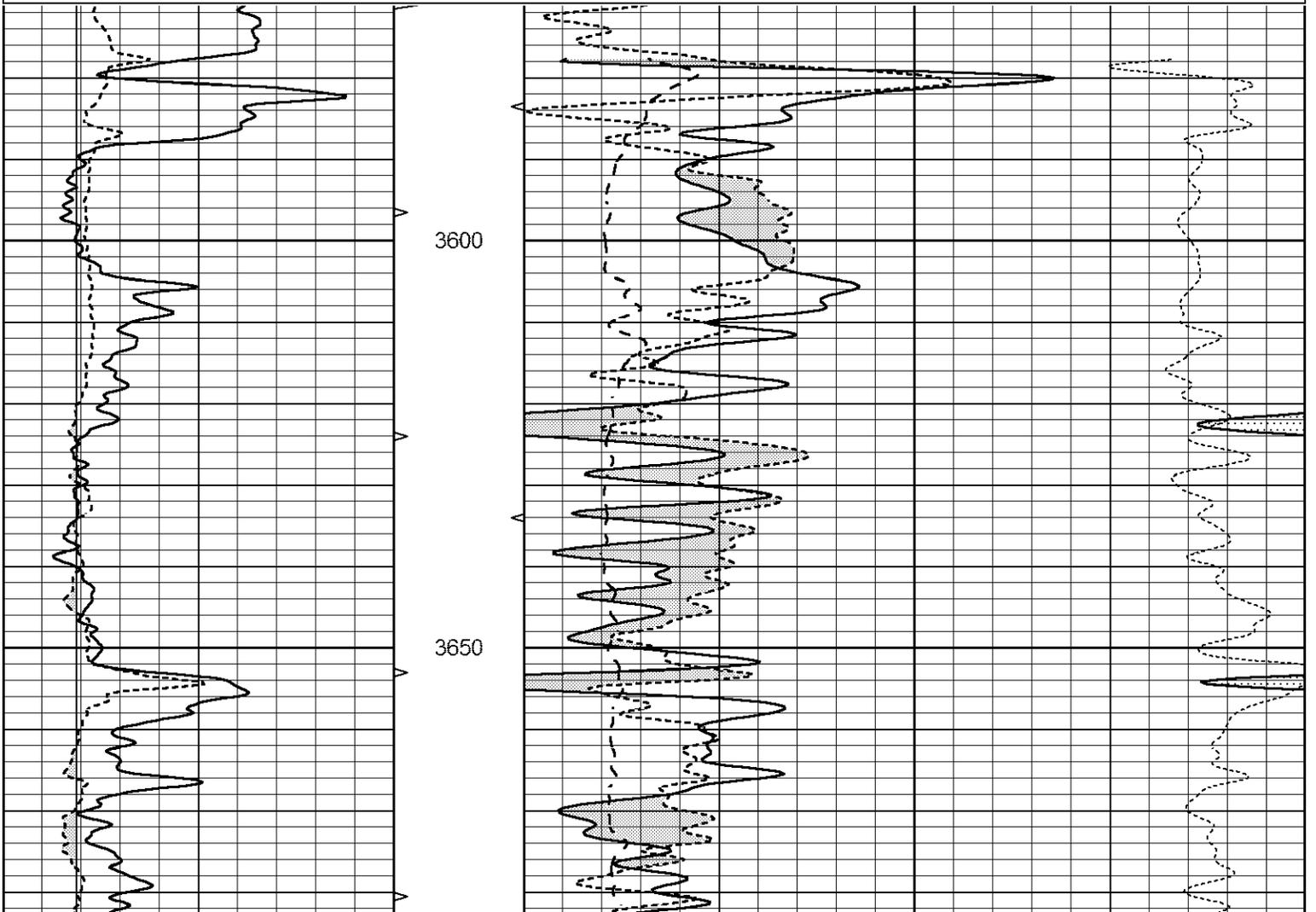
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10			
6	CALIPER (in)	16	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)	-10		
-----			TBHV	0	PE	10	-0.25	CORRECTION (g/cc)	0.25
-----			0 (ft3)	10					

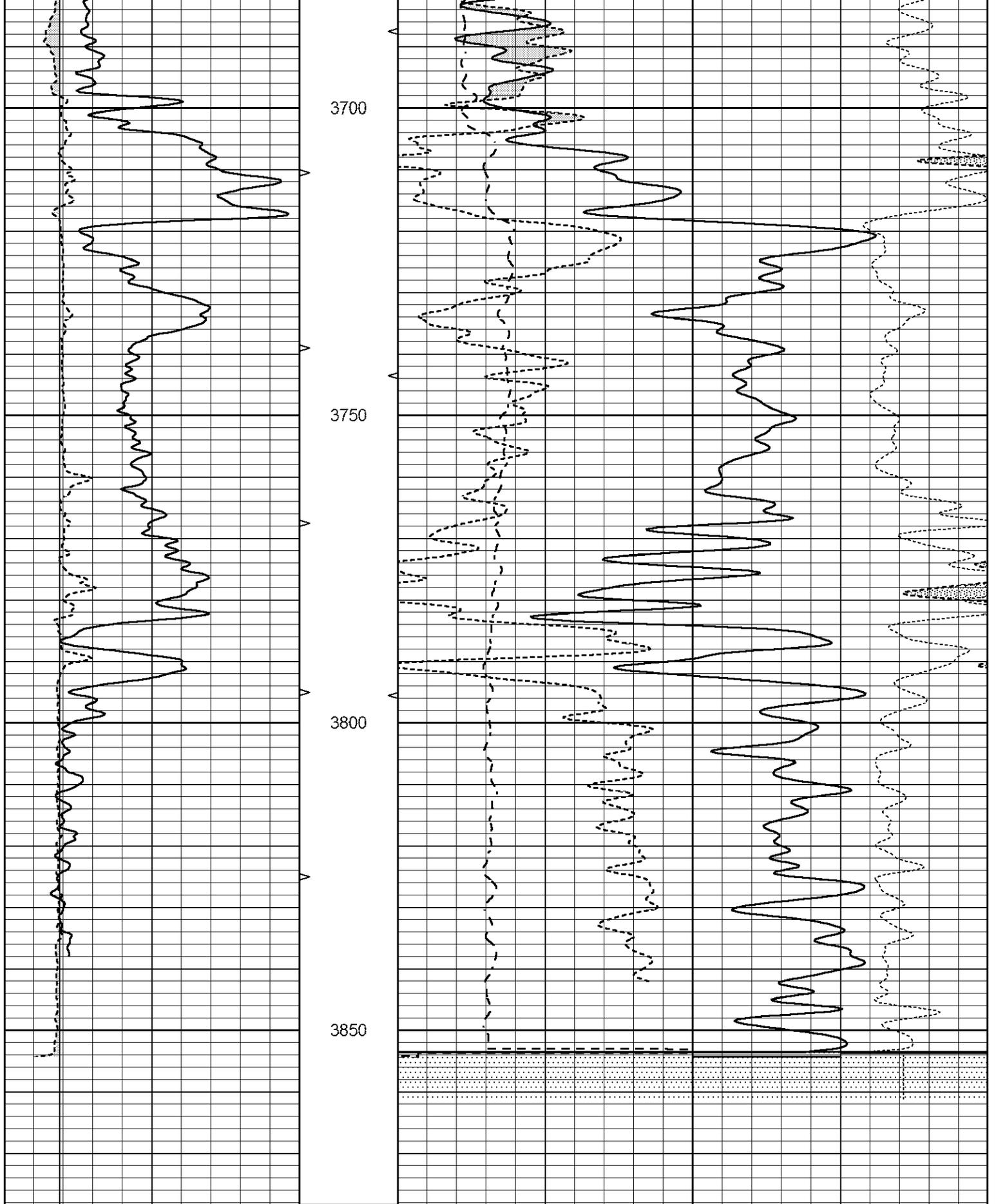


REPEAT SECTION

Database File 1566pe8.db
 Dataset Pathname pass2.1
 Presentation Format _ldt_neu
 Dataset Creation Sat Jul 01 06:15:22 2017
 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	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					

Calibration Report

Database File 1566pe8.db
 Dataset Pathname pass2.1
 Dataset Creation Sat Jul 01 06:15:22 2017

Dual Induction Calibration Report

Serial-Model: FW1410-56-Probe
 Surface Cal Performed: Fri Mar 13 14:03:50 2015
 Downhole Cal Performed: Fri Mar 13 15:37:29 2015
 After Survey Verification Performed: Fri Mar 13 15:37:29 2015

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.008	0.765	V	1.000	400.000	mmho/m	527.061	-3.201
Medium	-0.056	0.761	V	1.000	464.000	mmho/m	567.187	32.510
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		1500.000	Ohm-m		
		0.001	V		20.000	Ohm-m		
		-7.085	V		6000.000	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: 140704
 Model: V4_10P
 Source Number: 74GBq-19

Master Calibration

Performed: Wed Feb 11 18:53:41 2015

	Background	Aluminum	Magnesium	
Window 1	613.01	6027.40	27508.60	cps
Window 2	48.21	1424.77	7132.66	cps
Window 4	266.48	1373.19	5767.15	cps
Window 5	622.07	10090.30	18937.90	cps
Window 6	49.07	1682.84	3271.18	cps
Window 8	298.04	3248.38	5980.58	cps
Bulk Density	-	2.6020	1.6830	g/cc
Pe	-	3.0000	2.5070	b/e

LS Alpha: : -1.6451
LS Beta: : 138648.8473

SS Alpha: : -0.7542
SS Beta: : 21960.9250

LS CPE: : 1.0662
SS CPE: : 1.5181

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: Wed Feb 11 18:53:41 2015

Results		Readings		References (in)		Gain	Offset
Low	High	Low	High				
1107.5	7124.1	8.0	15.0			0.0	6.5

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: 070558
Tool Model: Probe1
Performed: Mon May 22 14:24:46 2017

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps

Calibrator Reading: 1.0 cps

Sensitivity: 0.3000 GAPI/cps