



**COMPENSATED
DENSITY/NEUTRON
LOG**

Company DOWNING NELSON OIL COMPANY, INC.
Well FIDELIS SCHMEIDLER "B" #1
Field SCHMEIDLER
County ELLIS State KANSAS

Location: API #: 15-051-26911-0000
2230' FSL & 60' FEL
SEC 21 TWP 12S RGE 17W
Permanent Datum GROUND LEVEL Elevation 2125
Log Measured From KELLY BUSHING 8' A.G.L
Drilling Measured From KELLY BUSHING
Other Services
DILMEL
SONIC
Elevation
K.B. 2133
D.F. 2131
G.L. 2125

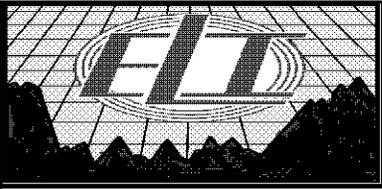
Date	5/8/18		
Run Number	ONE		
Depth Driller	3783		
Depth Logger	3783		
Bottom Logged Interval	3759		
Top Log Interval	3000		
Casing Driller	8 5/8" @ 220'		
Casing Logger	220		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 16000 PPM	
Density / Viscosity	9.2/49		
PH / Fluid Loss	9.0/10.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.42 @ 82F		
Rmt @ Meas. Temp	.31 @ 82F		
Rmc @ Meas. Temp	.50 @ 82F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.30 @ 114F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	114F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	MARC DOWNING		

<<< Fold Here >>>

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

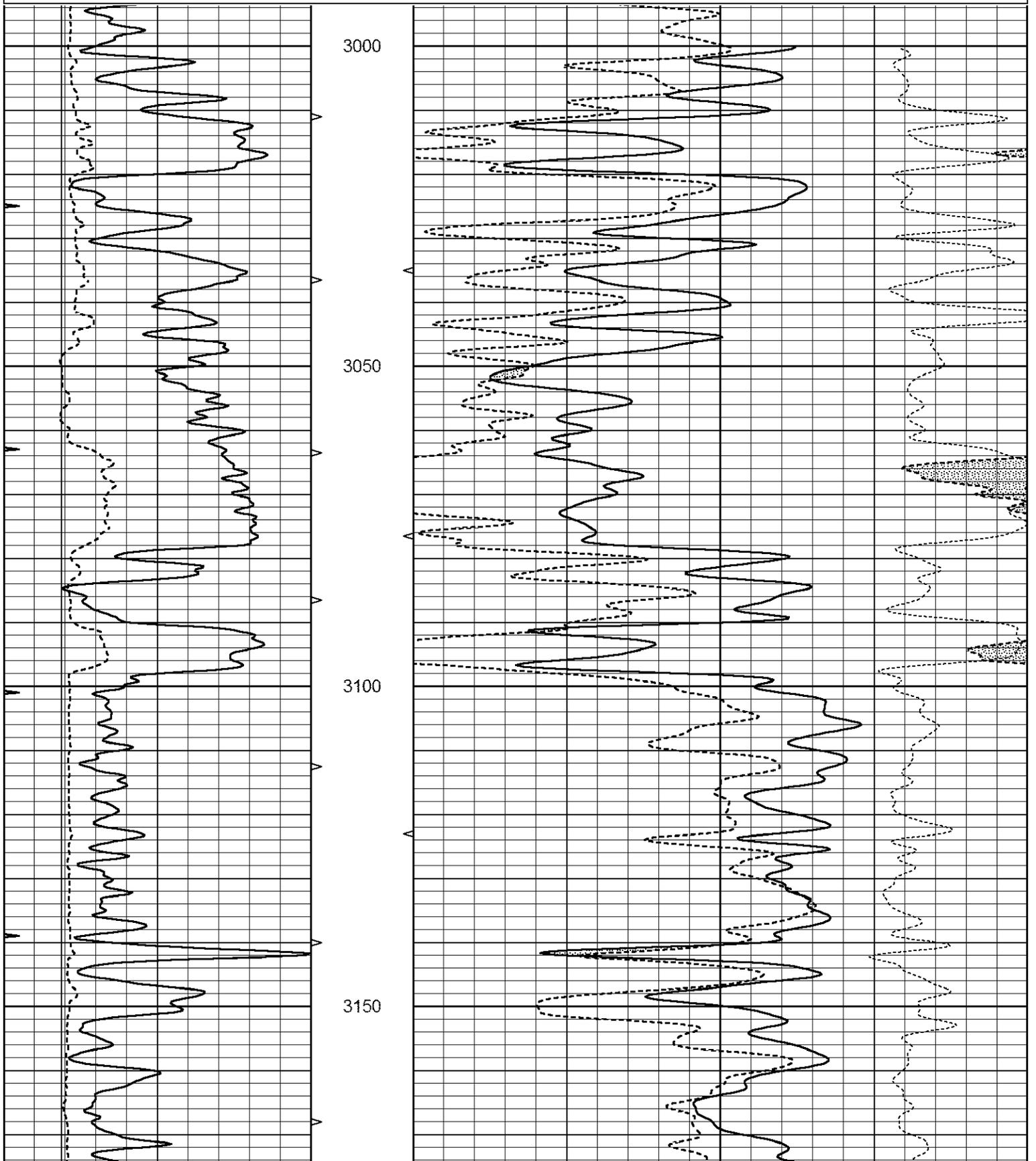
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
HAYS, KS. - NORTH TO BUCKEYE RD. - 6 EAST TO 310 RD. - 1/4 SOUTH - WEST INTO

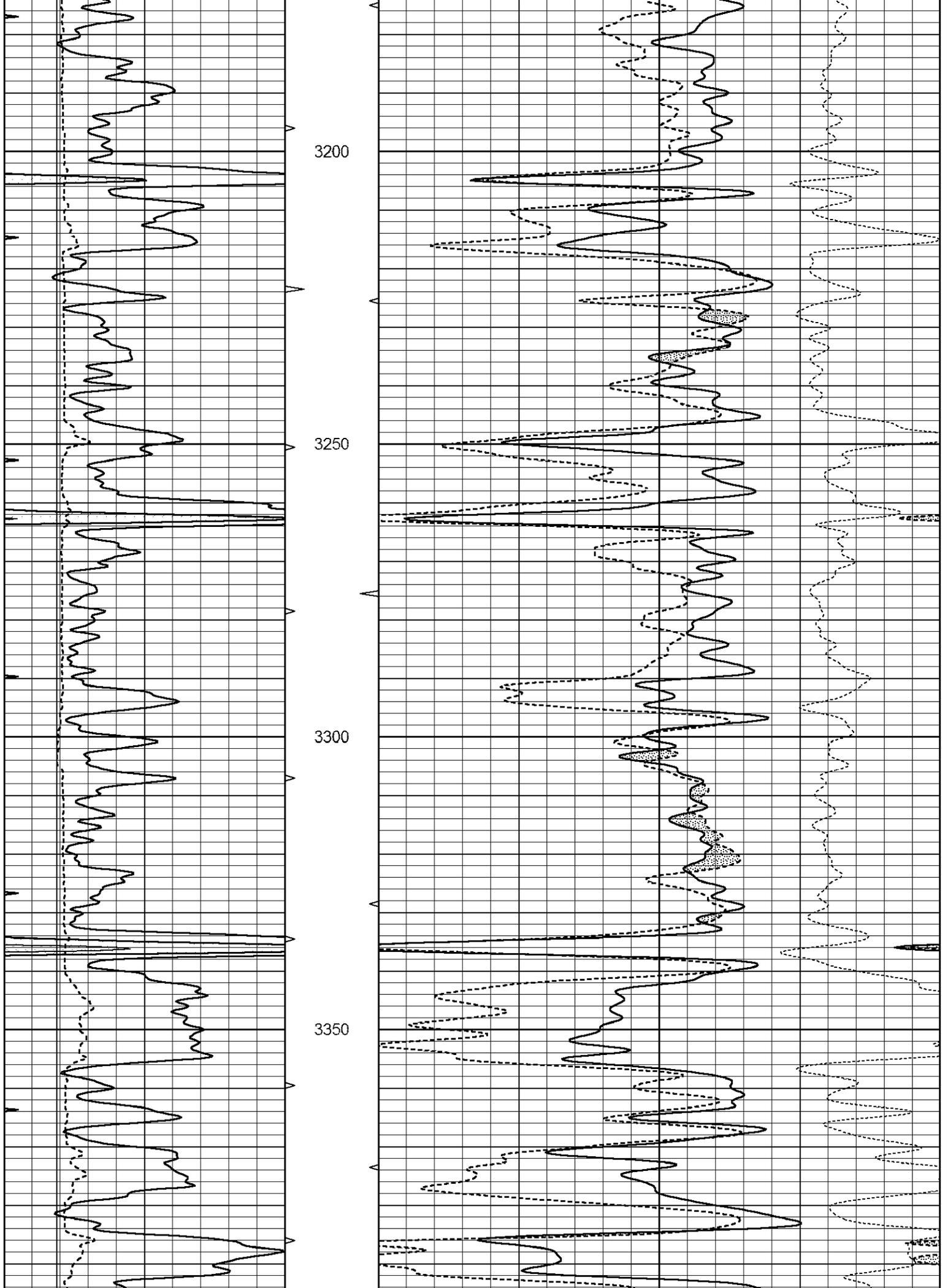


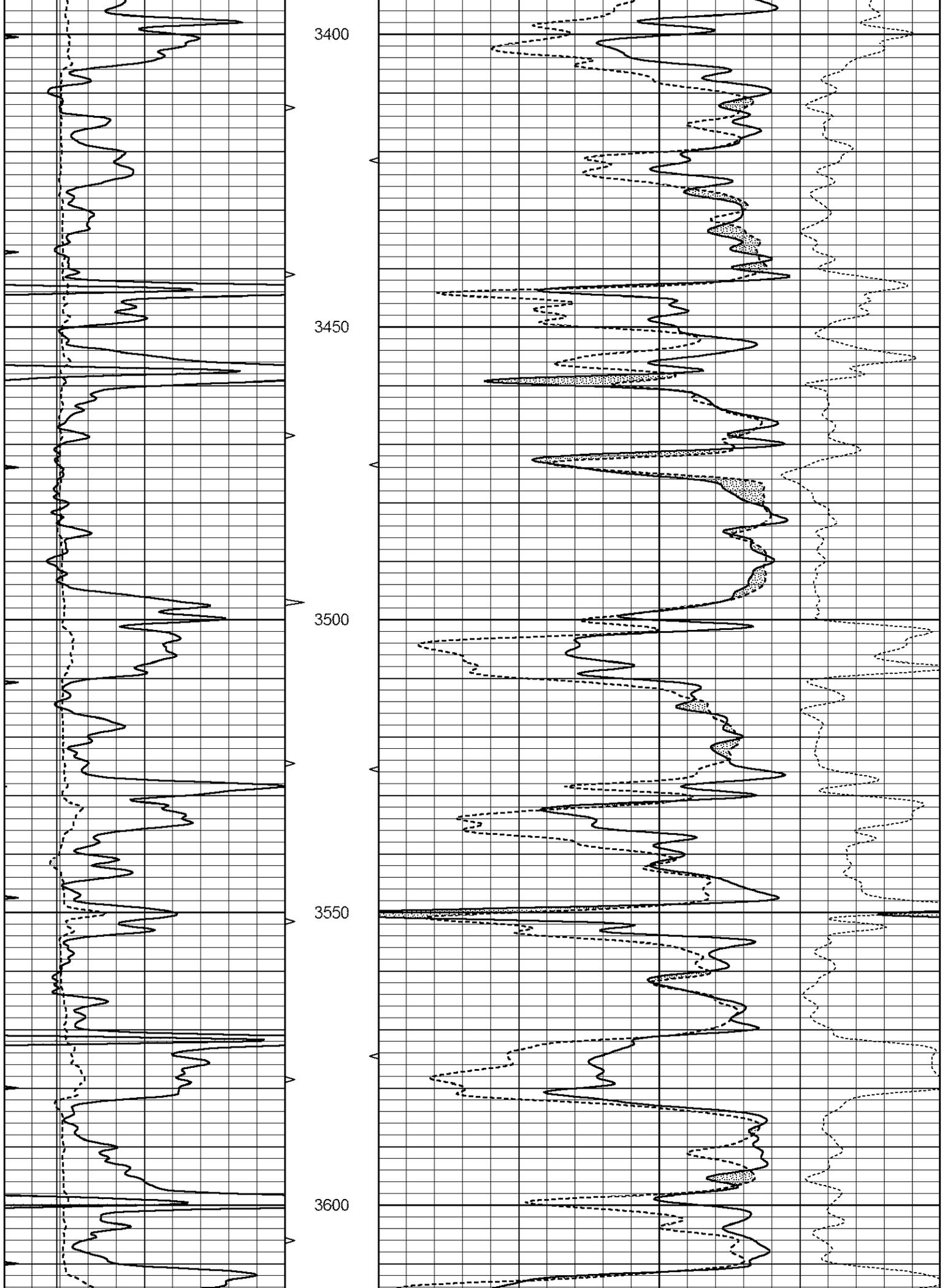
MAIN SECTION

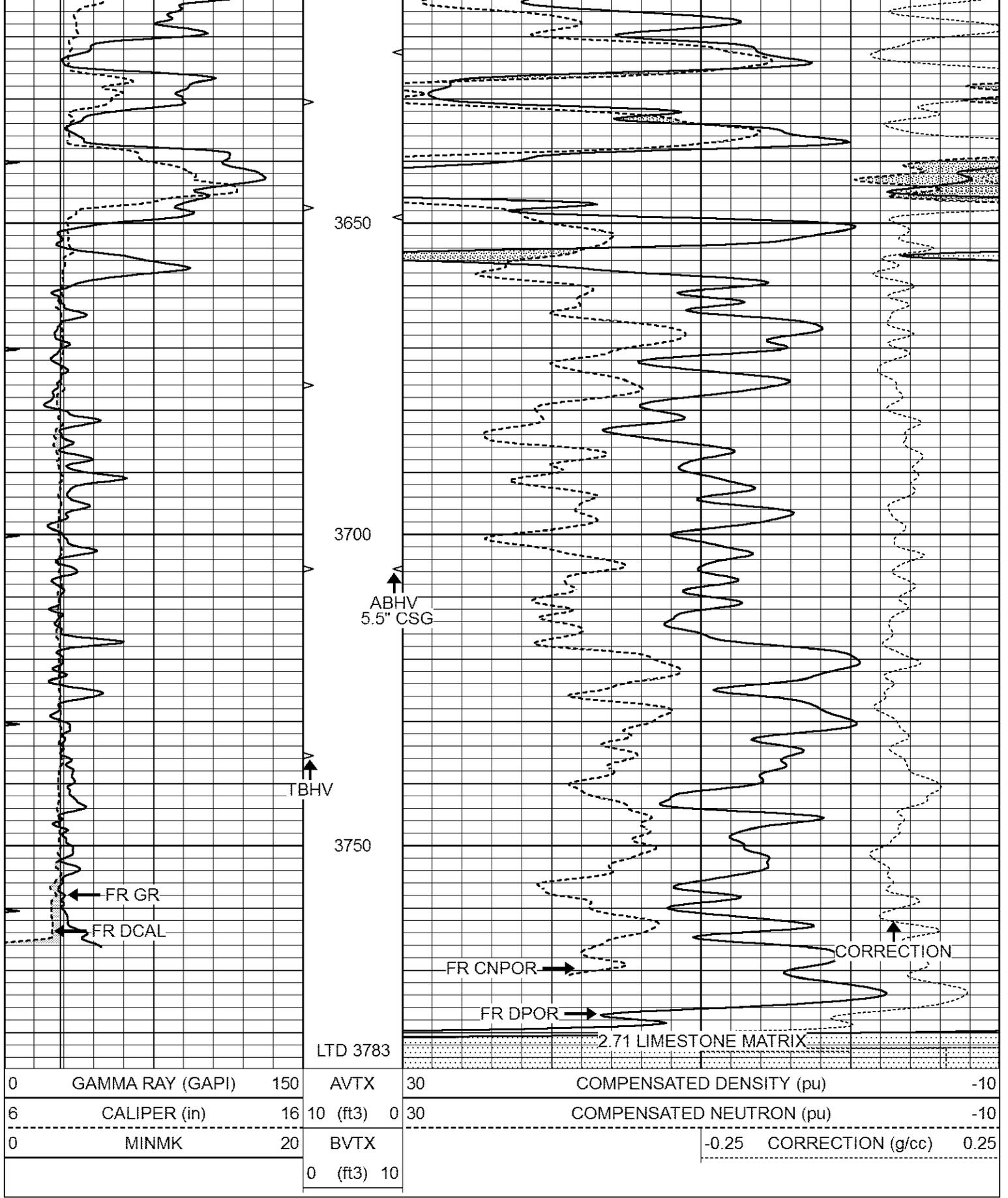
Database File 2502ddn8.db
 Dataset Pathname pass6.1
 Presentation Format _den_neu
 Dataset Creation Tue May 08 09:28:12 2018
 Charted by Depth in Feet scaled 1:240

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





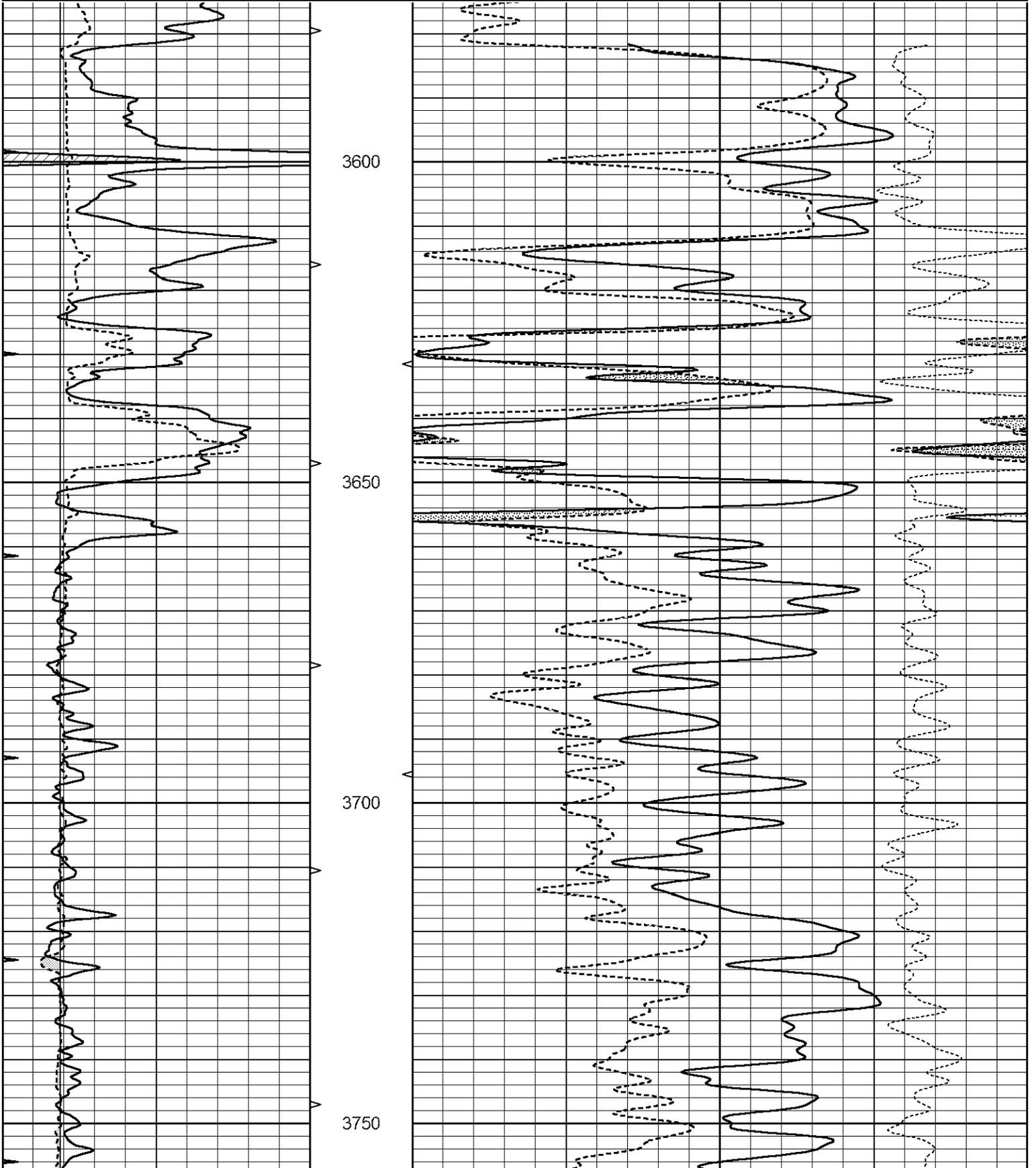


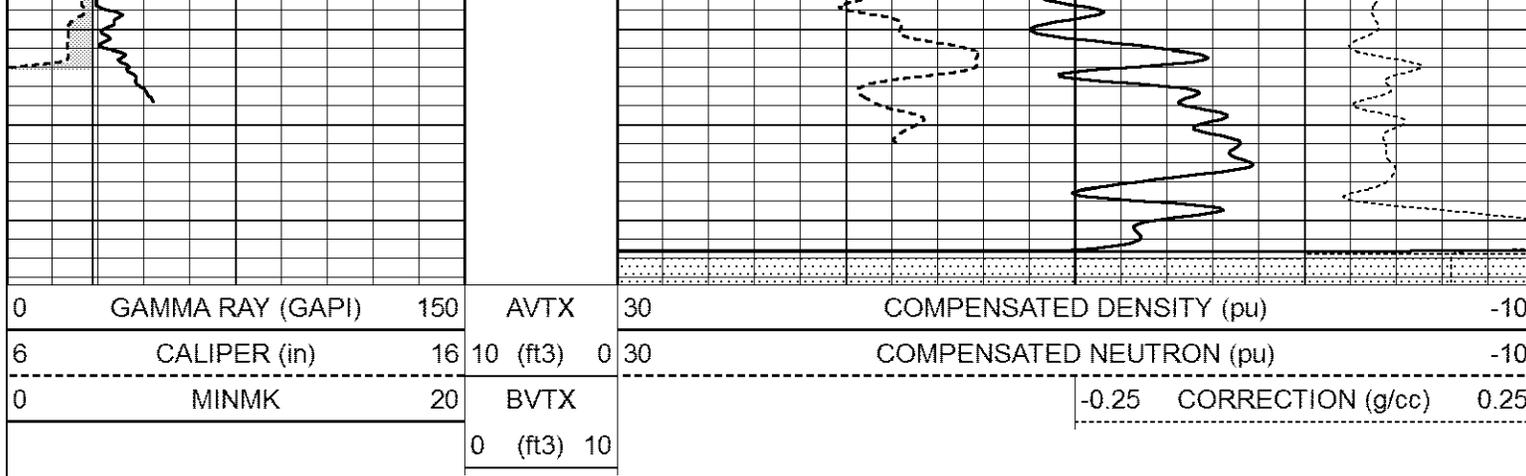


REPEAT SECTION

Database File 2502ddn8.db
 Dataset Pathname pass5.1
 Presentation Format _den_neu
 Dataset Creation Tue May 08 09:06:59 2018
 Charted by Depth in Feet scaled 1:240

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





Calibration Report

Database File 2502ddn8.db
 Dataset Pathname pass5.1
 Dataset Creation Tue May 08 09:06:59 2018

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:	: -1.8451	SS Alpha:	: -0.7542	LS CPE:	: 1.0882
LS Beta:	: 138648.8473	SS Beta:	: 21960.9250	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

Results		Readings		References (in)		Gain	Offset
Low	High	Low	High				
1107.5	7124.1	8.0	15.0			0.0	6.3

Before Survey Caliper Verification		Performed:					
	Reference	Reading					
Caliper (in)	_____	_____					

After Survey Caliper Verification		Performed:					
-----------------------------------	--	------------	--	--	--	--	--

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:	Tue Jul 25 12:16:33 2017	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.4000	GAPI/cps