



COMPENSATED DENSITY/NEUTRON LOG

Company	PIONEER OPERATIONS, LLC	Company	PIONEER OPERATIONS, LLC
Well	HAZEN #1	Well	HAZEN #1
Field	WEBSTER VIEW SOUTHEAST	Field	WEBSTER VIEW SOUTHEAST
County	ROOKS	County	ROOKS
State	KANSAS	State	KANSAS
Location:	API # : 15-163-24443-0000 2785' FSL & 1438' FEL SE/SE/SW/NE	Other Services DIL/MEL	
Permanent Datum	SEC 4 TWP 8S RGE 18W	Elevation	
Log Measured From	GROUND LEVEL Elevation 1919 KELLY BUSHING 5' A.G.L	K.B. 1924 D.F. 1922 G.L. 1919	
Drilling Measured From	KELLY BUSHING		
Date	3/26/22		
Run Number	ONE		
Depth Driller	3434		
Depth Logger	3434		
Bottom Logged Interval	3410		
Top Log Interval	2750		
Casing Driller	8 5/8" @245		
Casing Logger	245		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4600 PPM	
Density / Viscosity	9.3/56		
pH / Fluid Loss	10.5/6.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.95@65F		
Rmf @ Meas. Temp	.71@65F		
Rmc @ Meas. Temp	1.14@65F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.56@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	JANELL STAAB		

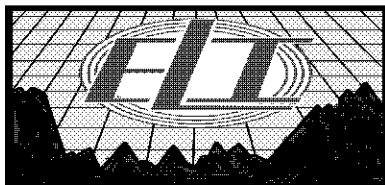
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on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

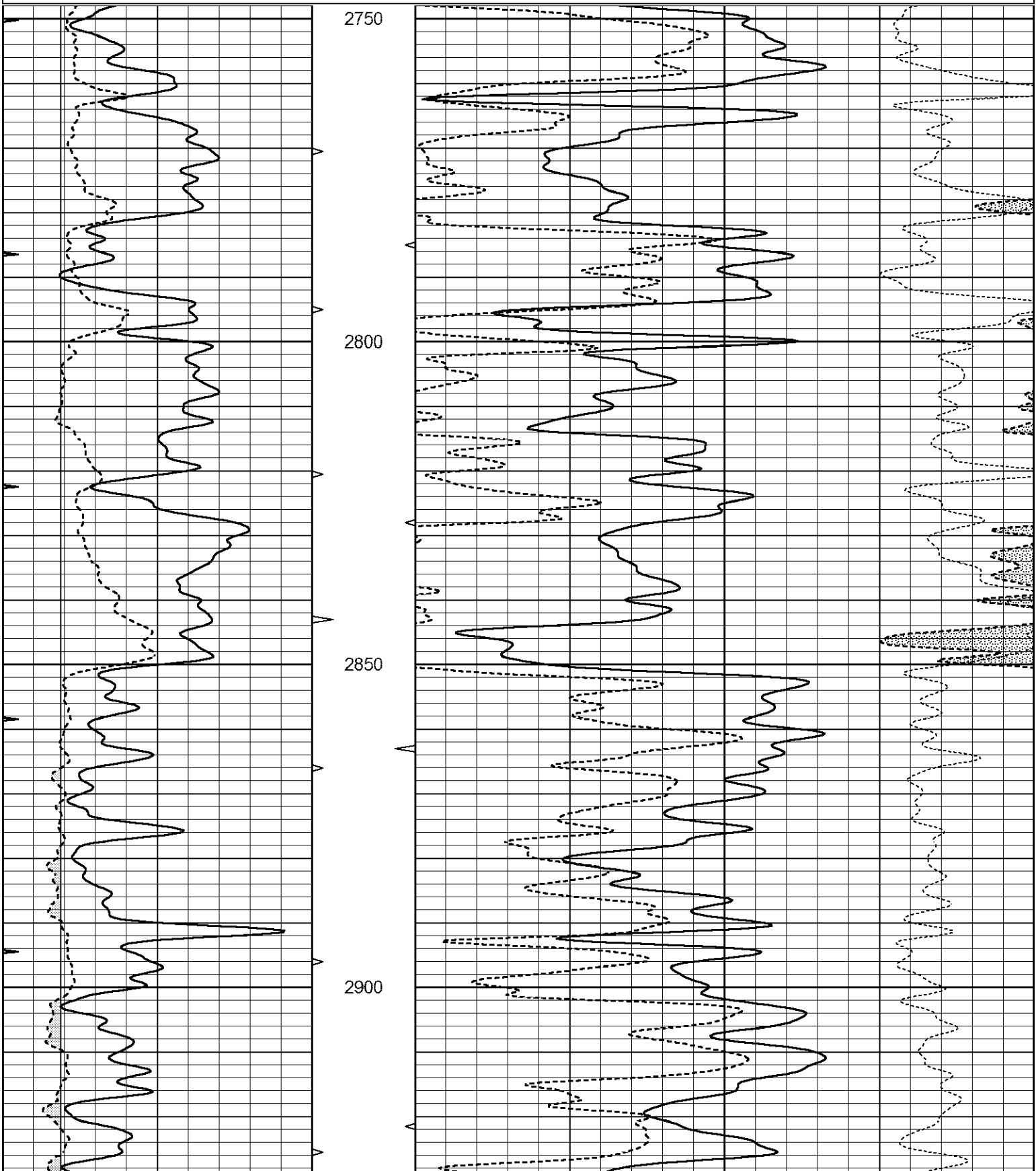
- COMING INTO STOCKTON KANSAS, TAKE ROAD "K" (BY TIRE SHOP) WEST A COUPLE MILES,
- THE ROAD CURVES SOUTH TO "L" TERRACE, - BACK WEST 1/4 MILE,
- SOUTH INTO THROUGH PASTURE

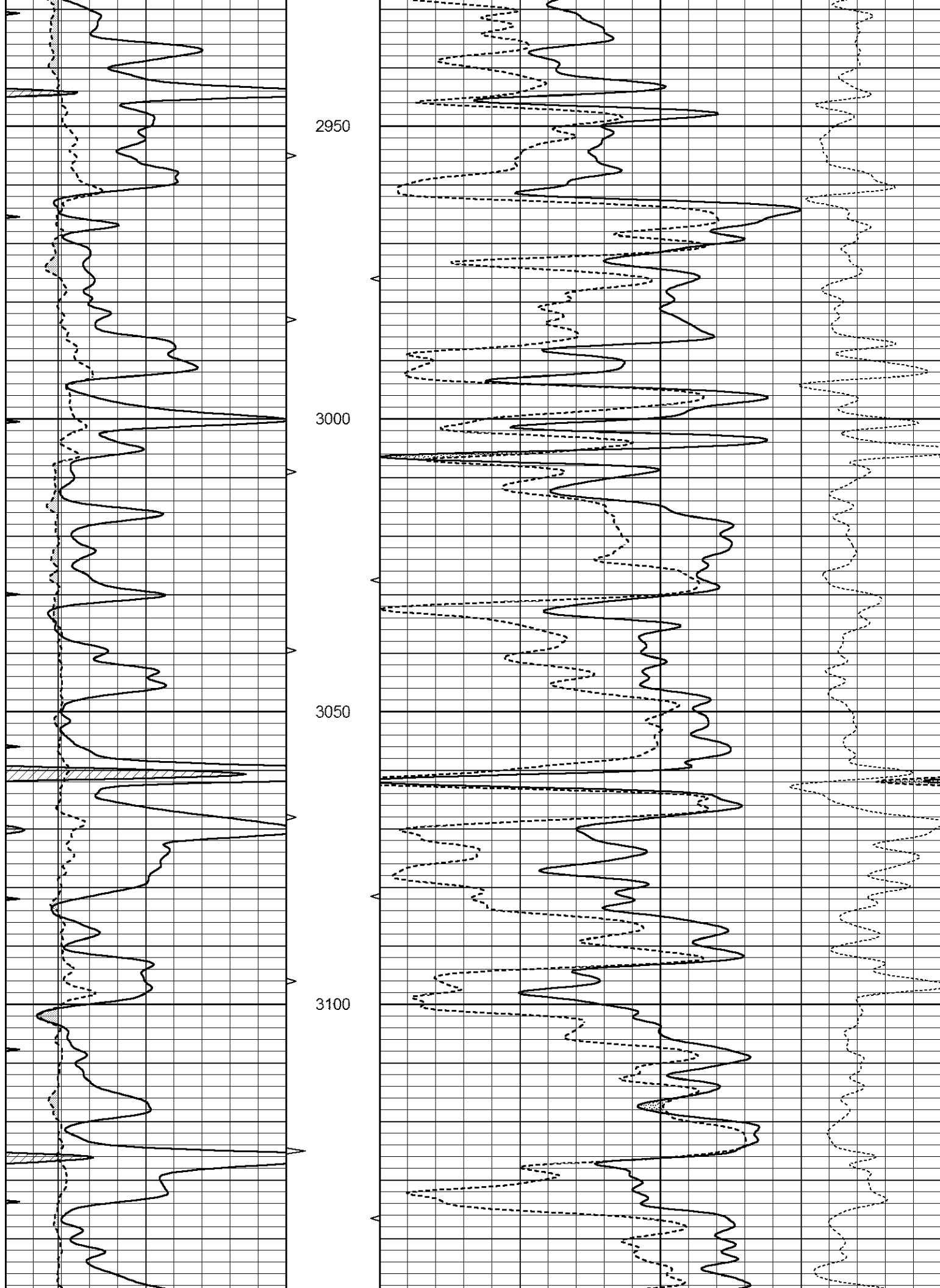


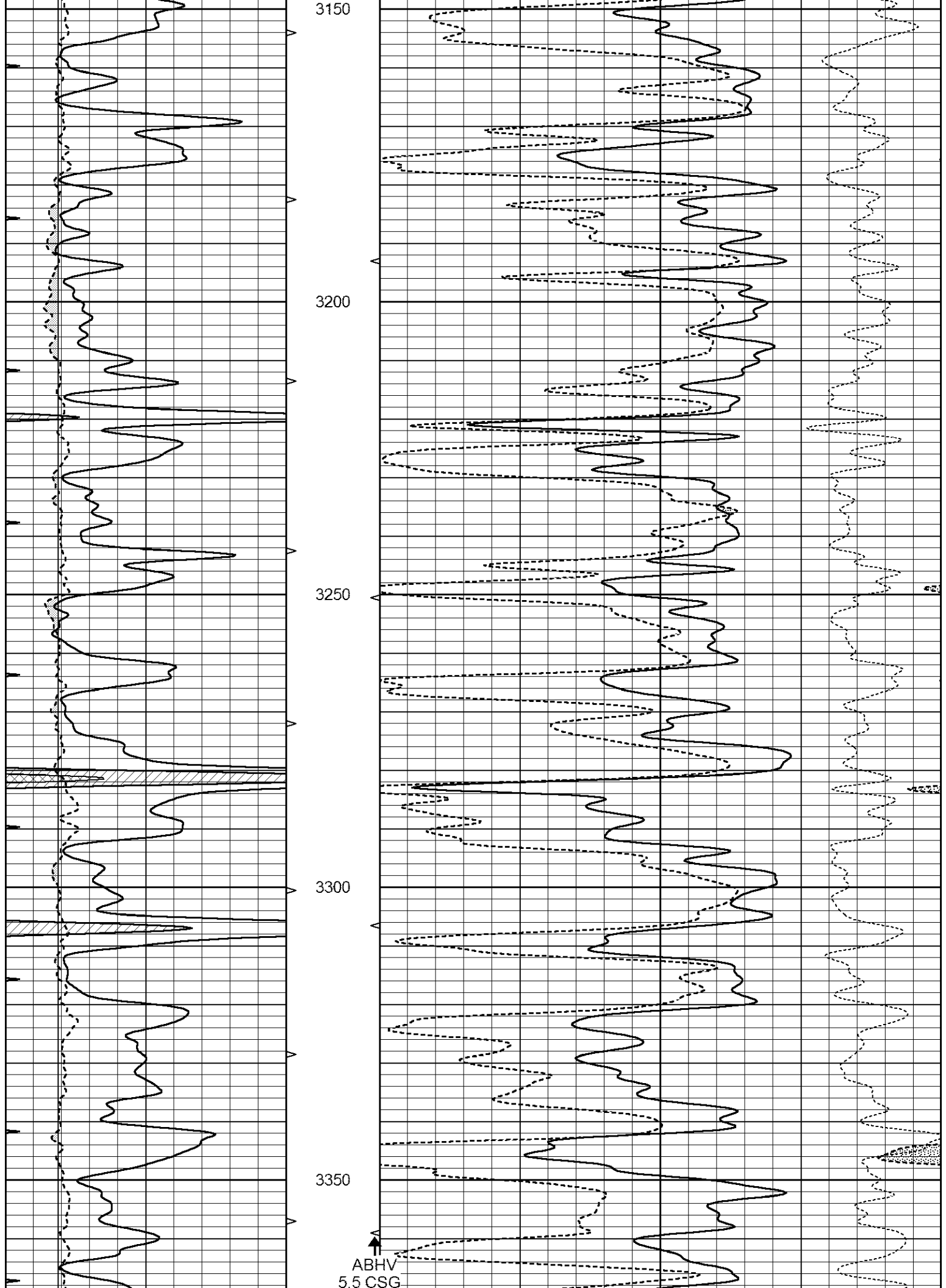
MAIN SECTION

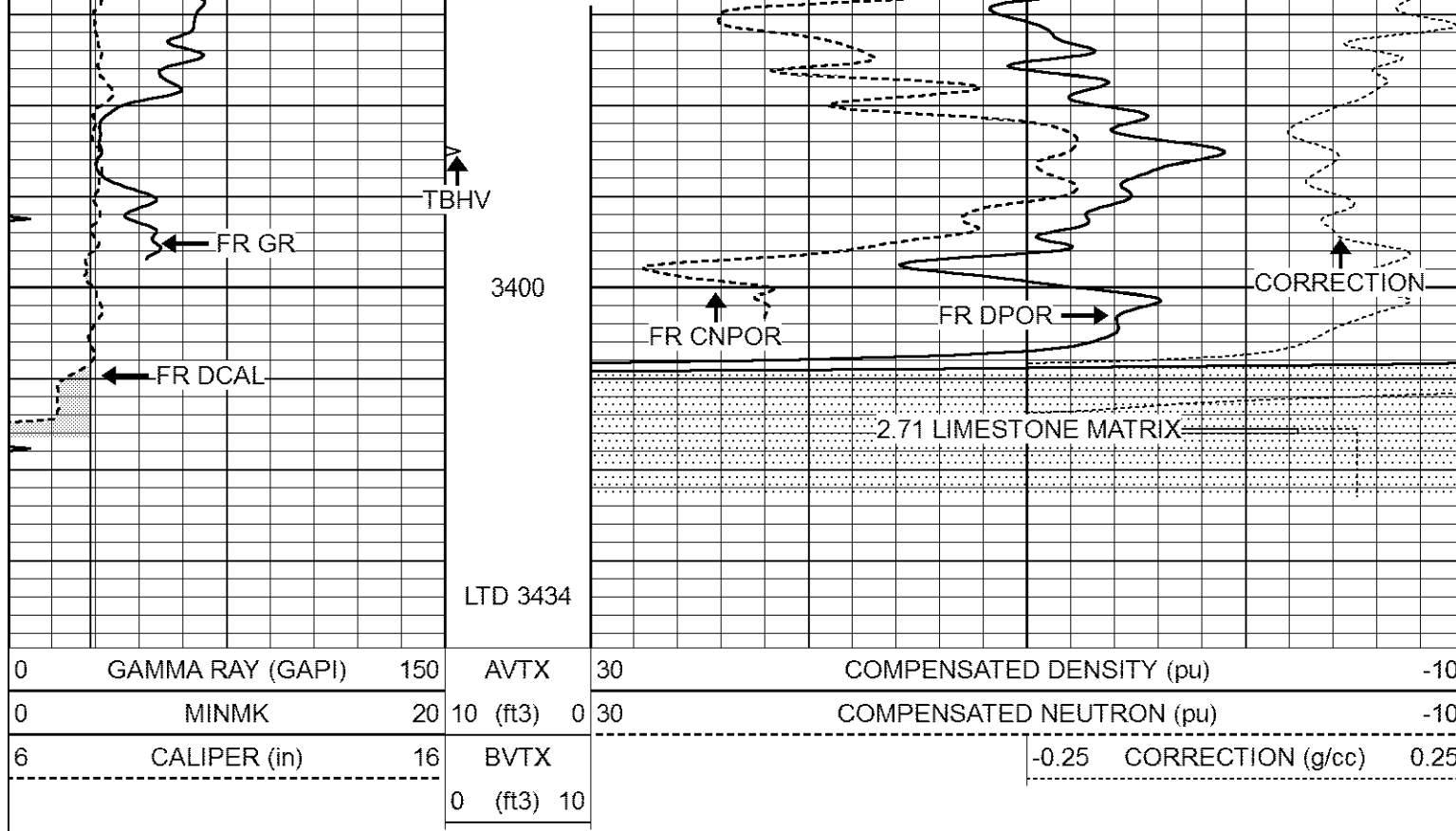
Database File	6380ddn.db
Dataset Pathname	pass3.4
Presentation Format	_den_neu
Dataset Creation	Sat Mar 26 18:26:34 2022
Charted by	Depth in Feet scaled 1:240

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





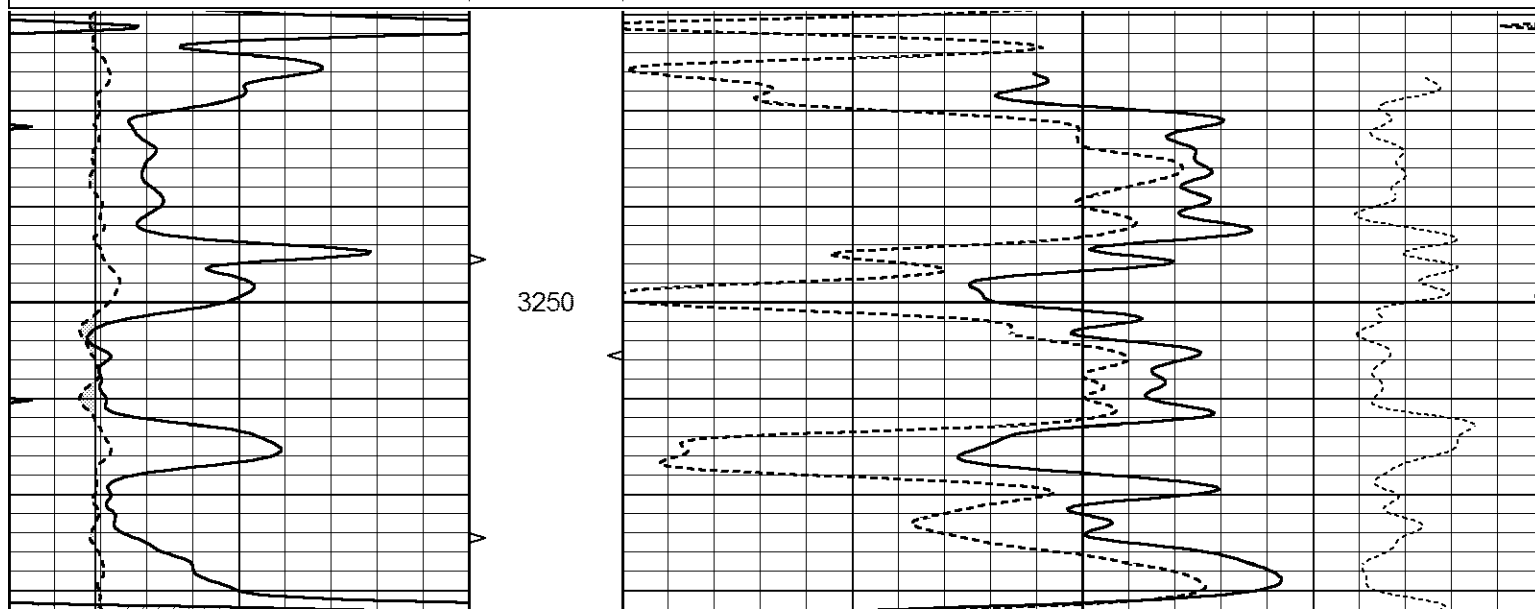


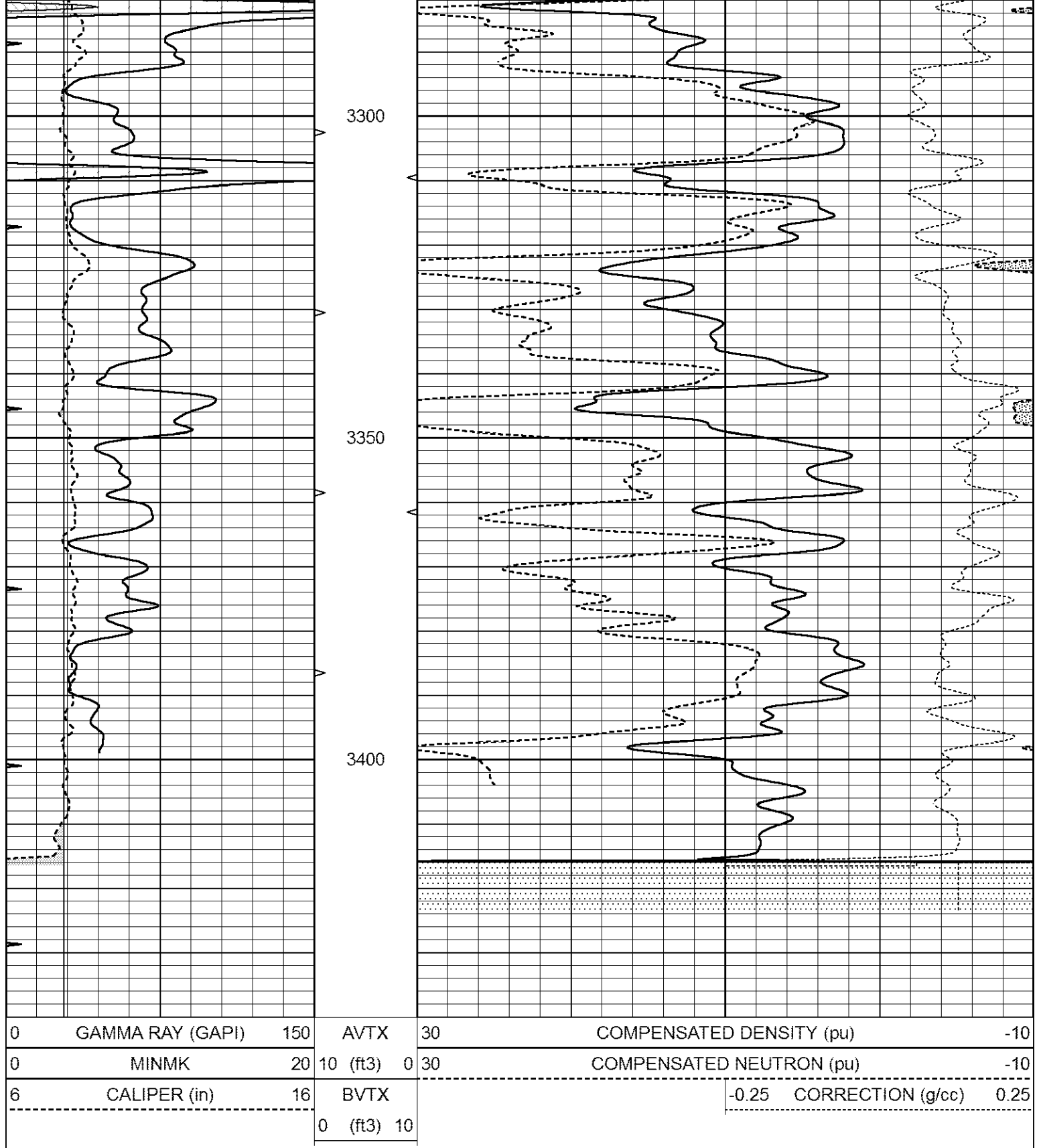


REPEAT SECTION

Database File 6380ddn.db
 Dataset Pathname pass2.3
 Presentation Format _den_neu
 Dataset Creation Sat Mar 26 18:29:58 2022
 Charted by Depth in Feet scaled 1:240

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





Calibration Report

Database File 6380ddn.db
 Dataset Pathname pass3.4
 Dataset Creation Sat Mar 26 18:26:34 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 11:41:27 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	632.856	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		

Litho Density Calibration Report								
Serial: 140704								
Model: V4_10P								
Source Number: 74GBq-19								

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	

