



**COMPLETION
& PRODUCTION
SERVICES CO.**

**COMPENSATED
DENSITY / NEUTRON
LOG**

Company	CHARTER ENERGY, INC.		
Well	SHUART #1		
Field	WILDCAT		
County	PAWNEE	State	KANSAS
Location:	API # : 15-145-21764		Other Services DIL SONIC/MEL
	375' FNL & 2247' FWL		
	SEC 1	TWP 22S	RGE 15W
Permanent Datum	GROUND LEVEL		Elevation
Log Measured From	KELLY BUSHING 6' A.G.L.		K.B. 1963
Drilling Measured From	KELLY BUSHING		D.F. G.L. 1957
Date	5-29-14		
Run Number	ONE		
Depth Driller	3950		
Depth Logger	3948		
Bottom Logged Interval	3924		
Top Log Interval	3000		
Casing Driller	924		
Casing Logger	924		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.4 / 48		
pH / Fluid Loss	9.0 / 10.4		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.75 @ 87F		
Rmf @ Meas. Temp	0.56 @ 87F		
Rmc @ Meas. Temp	0.90 @ 87F		
Source of Rmf / Rmc	FLOWLINE		
Rim @ BHT	.570 @ 114F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	1:45 A.M.		
Maximum Recorded Temperature	114F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	KURT TALBOTT		

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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

NABORS COMPLETION & PRODUCTION SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: RADIUM BLACKTOP & #19, 1W, 1N, 1/2W, S INTO.

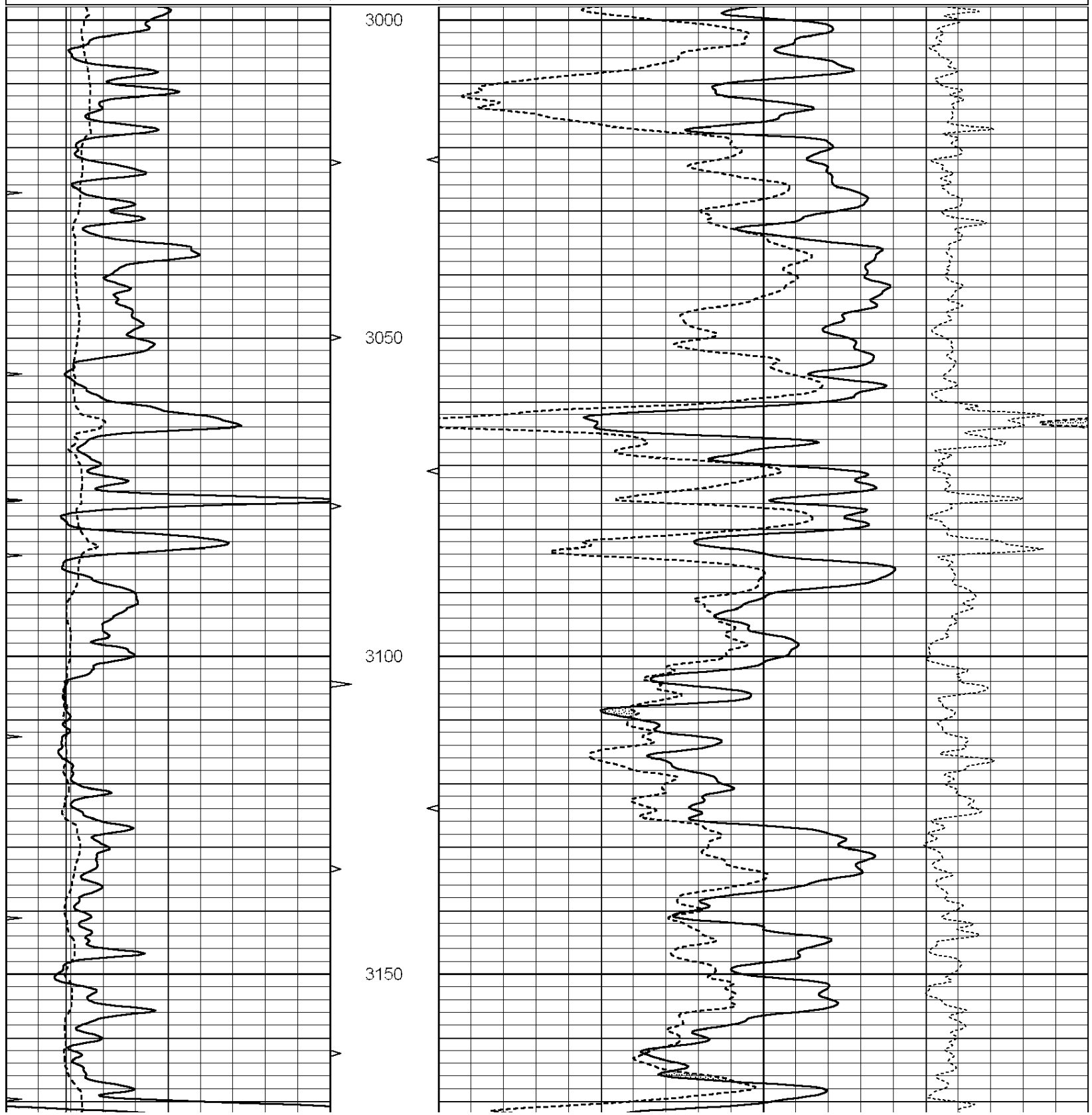


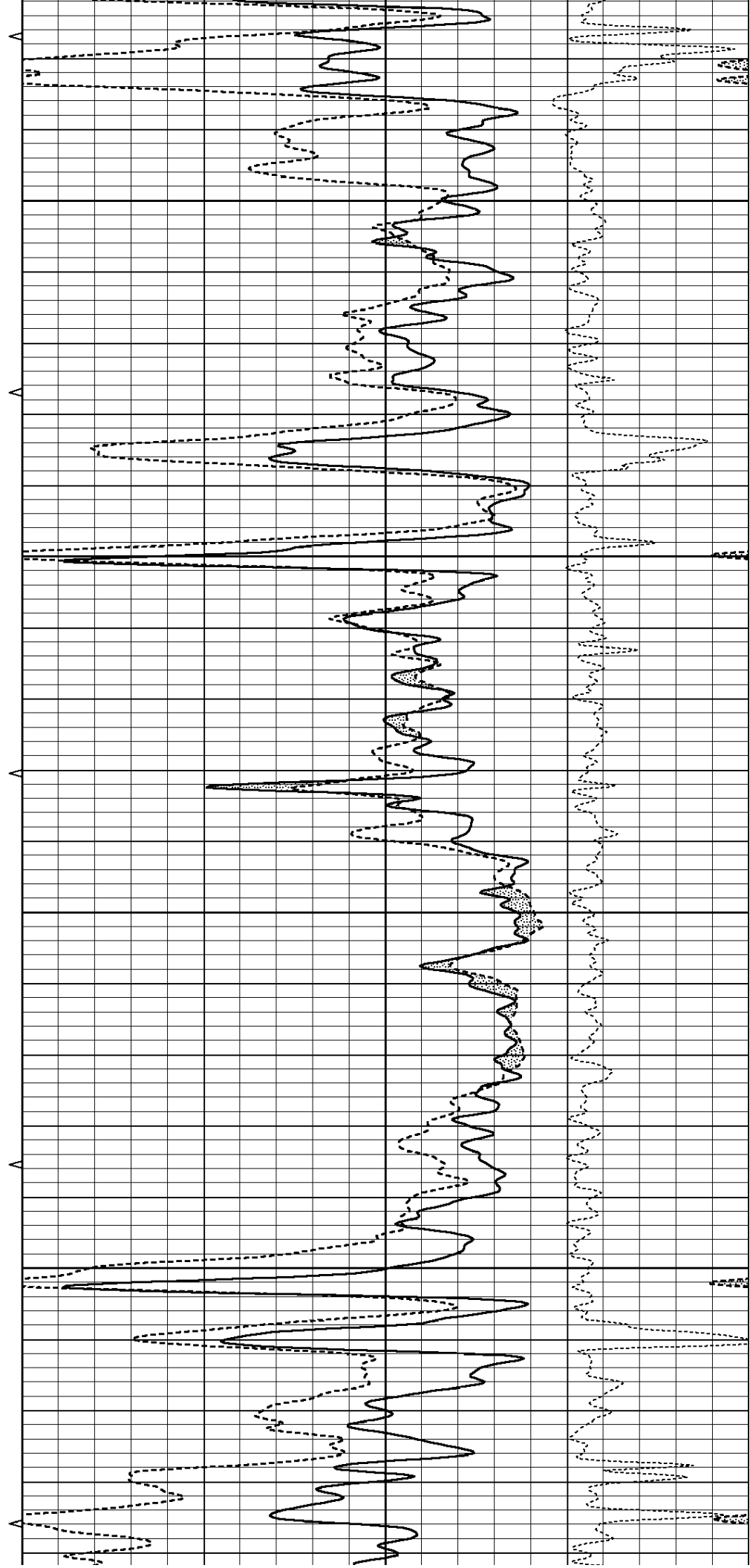
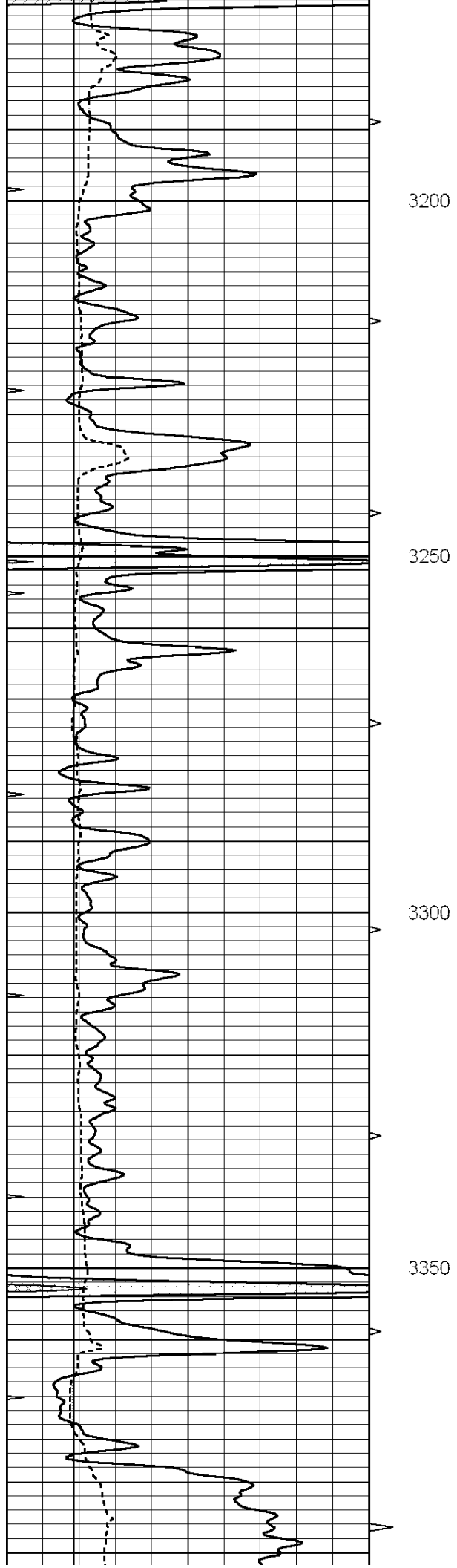
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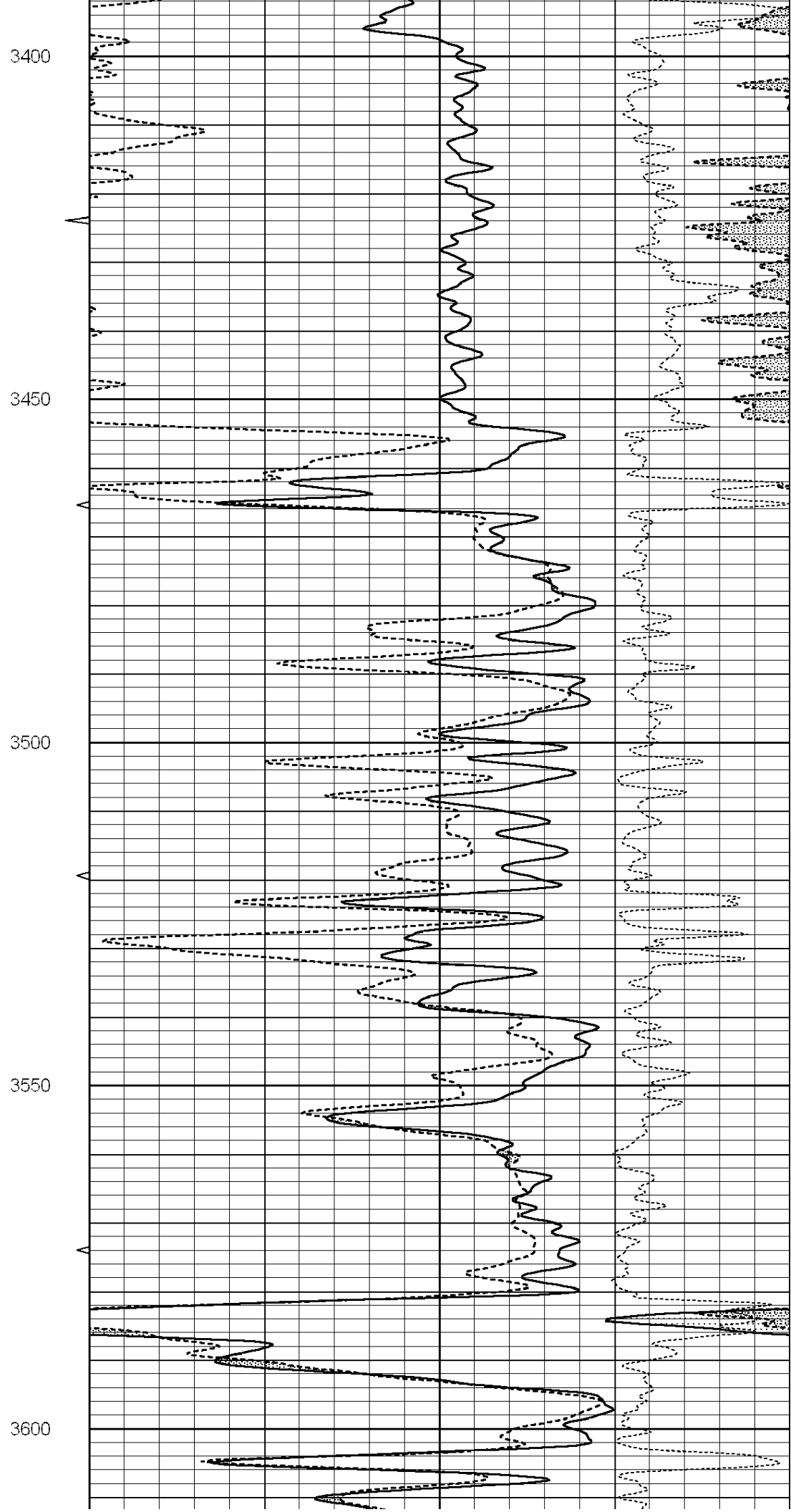
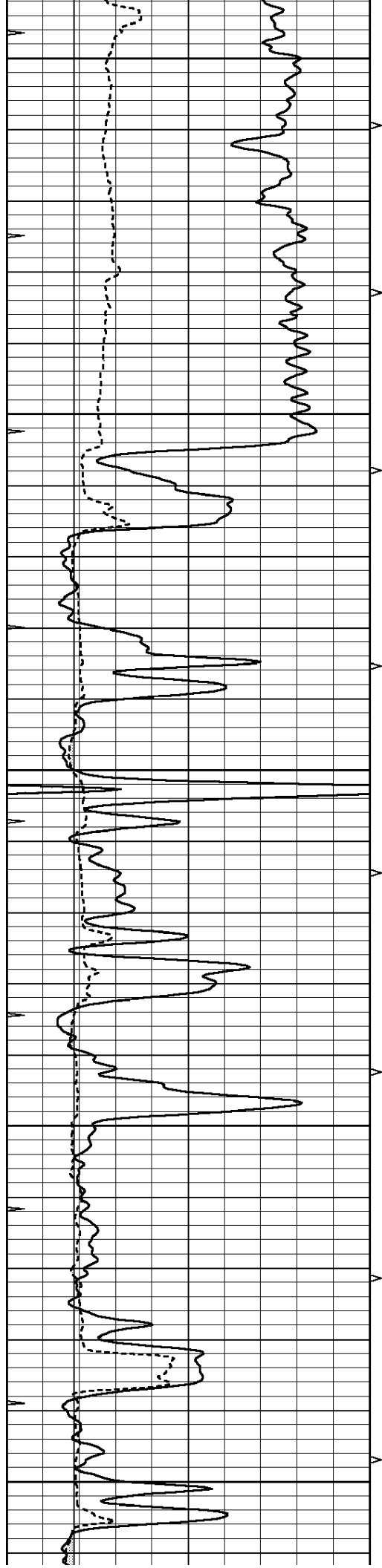
MAIN SECTION

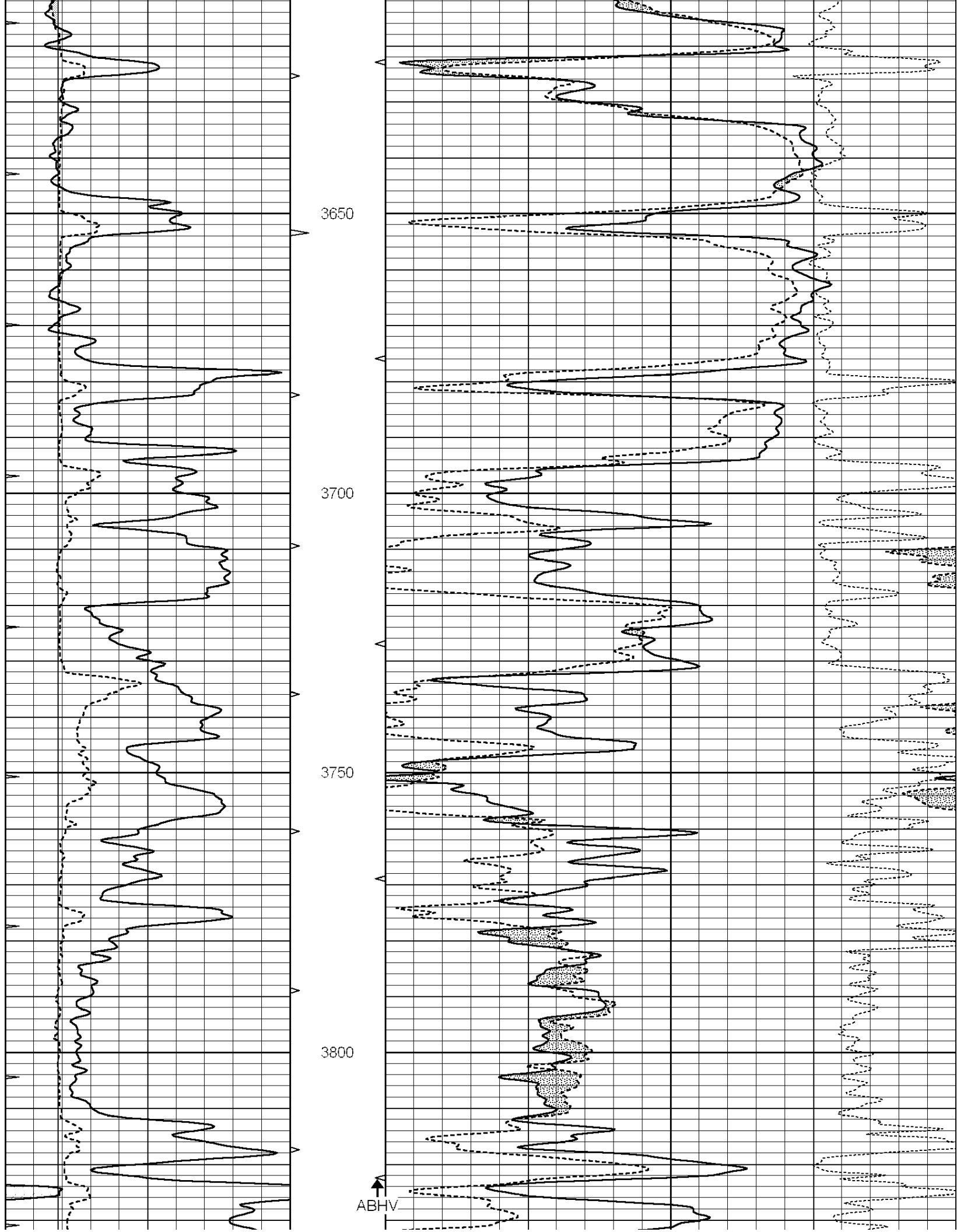
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 Dataset Pathname: pass3.1
 Presentation Format: _den_neu
 Dataset Creation: Fri May 30 03:03:22 2014 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

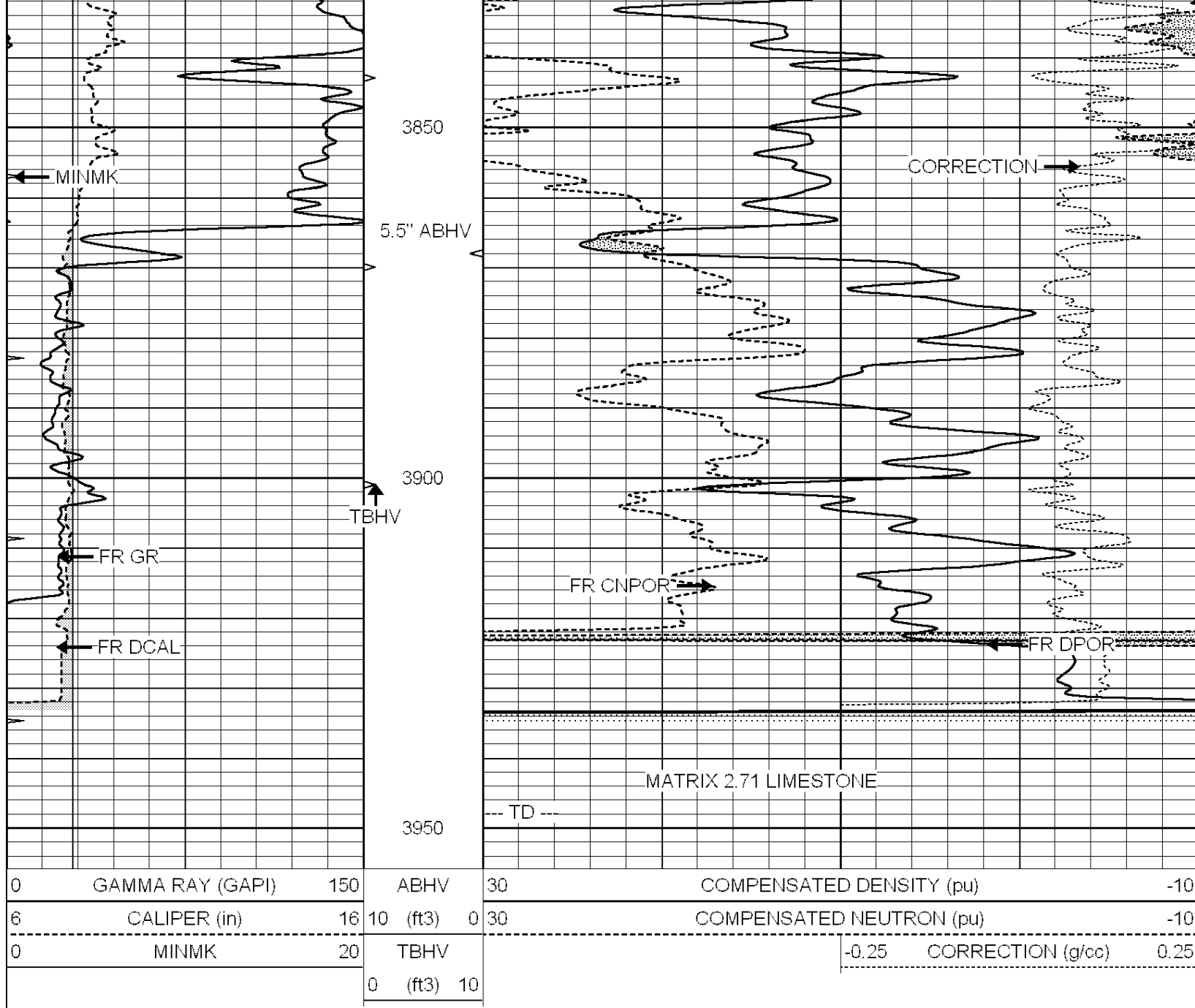
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10			





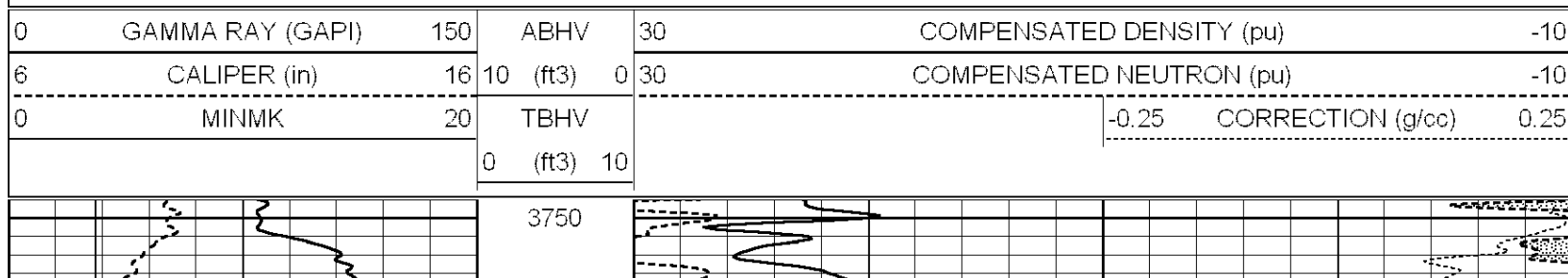


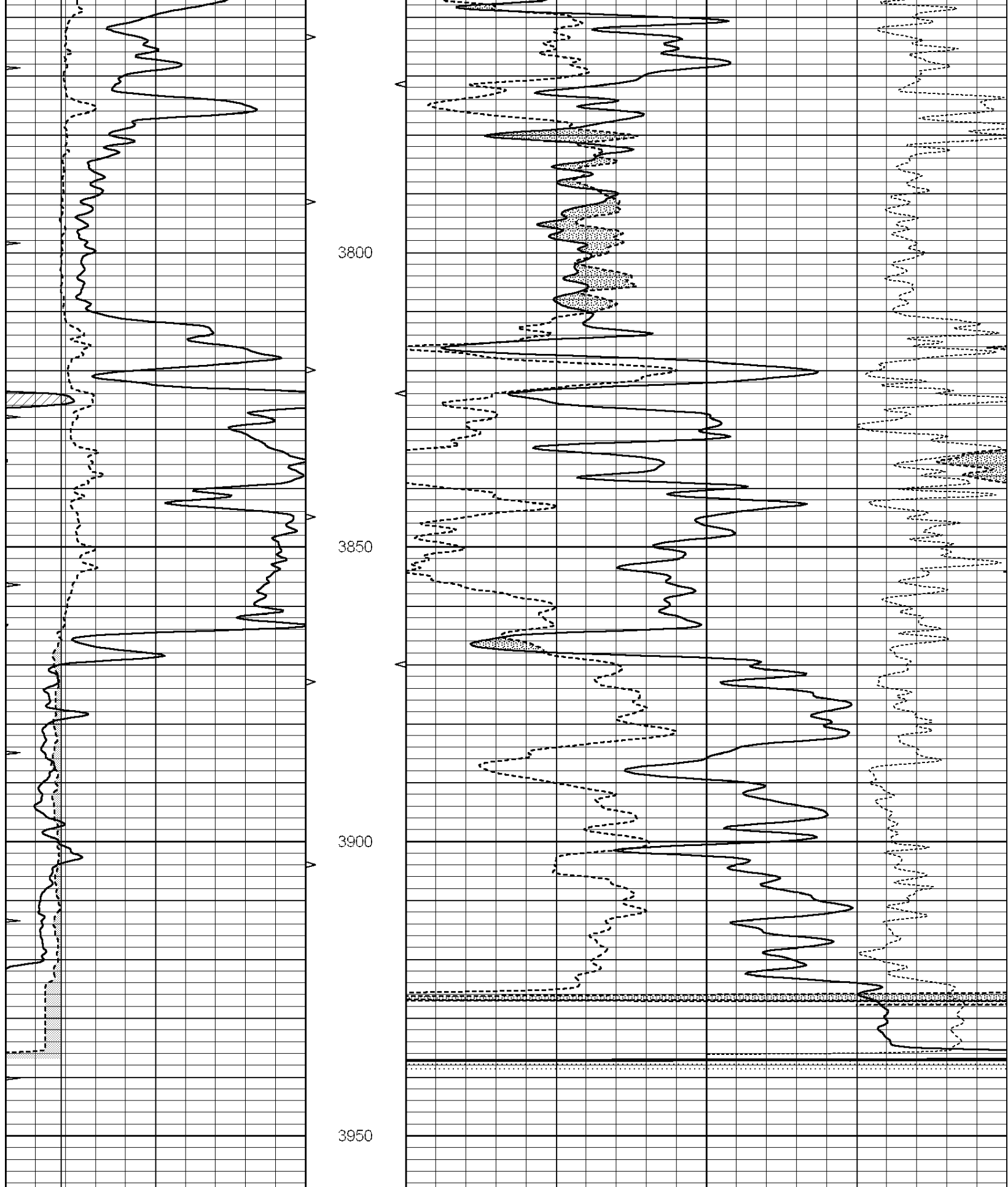




REPEAT SECTION

Database File: 24443ddn.db
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 Presentation Format: _den_neu
 Dataset Creation: Fri May 30 02:24:54 2014 by Calc Open-Cased 090629
 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: 24443ddn.db
 Dataset Pathname: pass3.1
 Dataset Creation: Fri May 30 03:03:22 2014 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: PROBE7-DILG
 Surface Cal Performed: Fri May 30 02:21:03 2014
 Downhole Cal Performed: Sat Jan 19 19:51:38 2013
 After Survey Verification Performed: Sat Jan 19 19:51:38 2013

Surface Calibration

Readings			References			Results	
Loop:	Air	Loop		Air	Loop	m	b
Deep	0.793	0.790	V	0.000	400.000	mmho/m	490.000
Medium	0.992	1.002	V	0.000	464.000	mmho/m	530.000
Internal:	Zero	Cal		Zero	Cal	m	b
Deep	0.041	0.642	V	0.000	400.000	mmho/m	664.874
Medium	0.035	0.802	V	0.000	464.000	mmho/m	604.936

Downhole Calibration

Readings			References			Results	
	Zero	Cal		Zero	Cal	m'	b'
Deep	135384.000	27094.500	mmho/m	135400.000	27082.400	mmho/m	1.000
Medium	-47330.100	-9381.740	mmho/m	-47327.100	-9389.280	mmho/m	1.000
LL3		7.322	V		1400.000	Ohm-m	
		0.038	V		20.000	Ohm-m	
		-7.273	V		4000.000	mmho-m	

After Survey Verification

Readings			Targets			Results	
	Zero	Cal		Zero	Cal	m'	b'
Deep	0.000	0.000	mmho/m	135384.000	27094.500	mmho/m	1.000
Medium	0.000	0.000	mmho/m	-47330.100	-9381.740	mmho/m	1.000
LL3		0.000	Ohm-m		1400.000	Ohm-m	
		0.000	Ohm-m		20.000	Ohm-m	
		0.000	mmho-m		4000.000	mmho-m	

Compensated Density Calibration Report

Serial-Model: GEAR1-GEARHART
 Source / Verifier: 147 / 147
 Master Calibration Performed: Fri May 30 01:35:07 2014

Master Calibration

Density			Far Detector		Near Detector	
Magnesium	1.710	g/cc	1211.27		625.92	cps
Aluminum	2.590	g/cc	267.11		413.26	cps
Spine Angle = 74.64			Density/Spine Ratio = 0.561			
Size			Reading			
Small Ring	8.20	in	5.38	V		
Large Ring	14.00	in	8.71	V		

Compensated Neutron Calibration Report			
Serial Number:		080621	
Tool Model:		Probe	
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:	080328		
Tool Model:	Probe1		
Performed:	Fri May 30 02:18:53 2014		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.2600	GAPI/cps	