



**COMPLETION
& PRODUCTION
SERVICES CO.**

**COMPENSATED
DENSITY / NEUTRON
LOG**

Company	RITCHIE EXPLORATION, INC.		
Well	WEISENSEE 1B #1		
Field	WILDCAT		
County	PAWNEE	State	KANSAS
Location:	API # : 15-145-21787 1500' FNL & 1500' FWL		Other Services DIL SONIC
Permanent Datum	SEC 1	TWP 21S	RGE 18W
Log Measured From	GROUND LEVEL Elevation 2108 KELLY BUSHING 8' A.G.L.		
Drilling Measured From	KELLY BUSHING		
Elevation	K.B. 2115 D.F. G.L. 2108		
Date	10-24-14		
Run Number	ONE		
Depth Driller	4250		
Depth Logger	4252		
Bottom Logged Interval	4228		
Top Log Interval	3250		
Casing Driller	1174		
Casing Logger	1178		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.1 / 60		
pH / Fluid Loss	8.0 / 12.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.80 @ 66F		
Rmf @ Meas. Temp	0.60 @ 66F		
Rmc @ Meas. Temp	0.96 @ 66F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.451 @ 117F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	11:45 P.M.		
Maximum Recorded Temperature	117F		
Equipment Number	3802		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	ADAM ELDANI		

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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: SANFORD, 5N TO THE CURVE, 3E, N INTO.

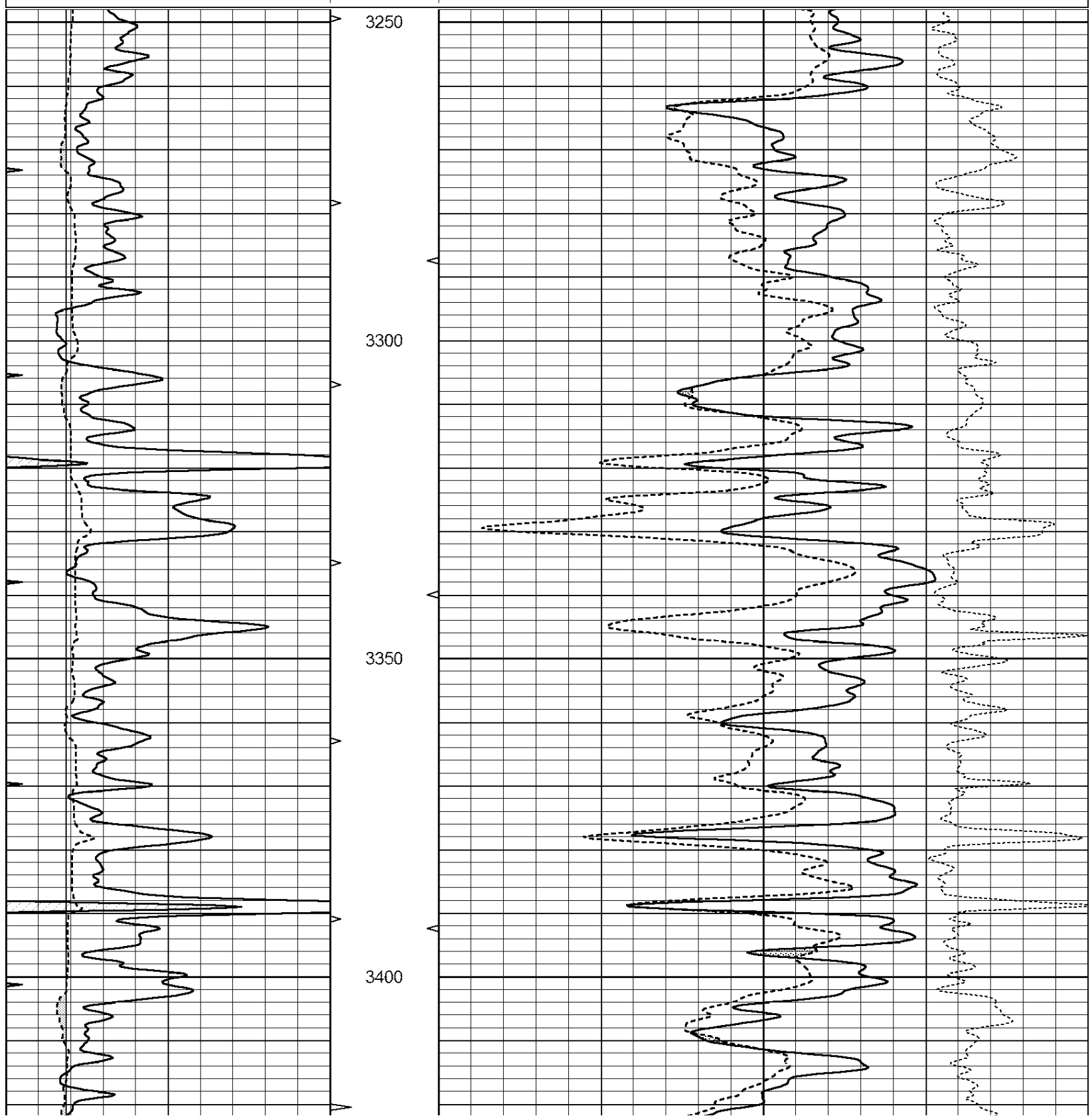


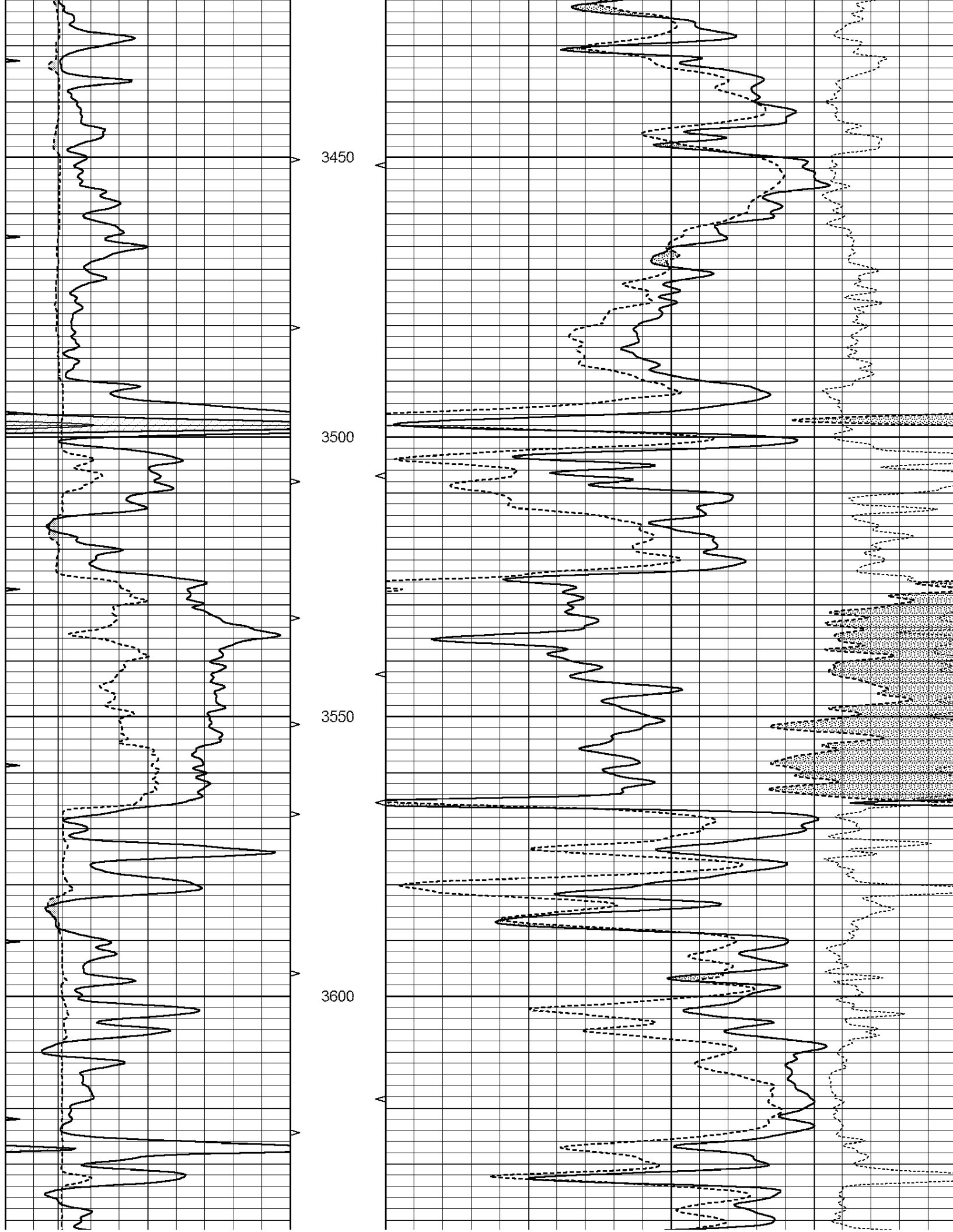
**COMPLETION
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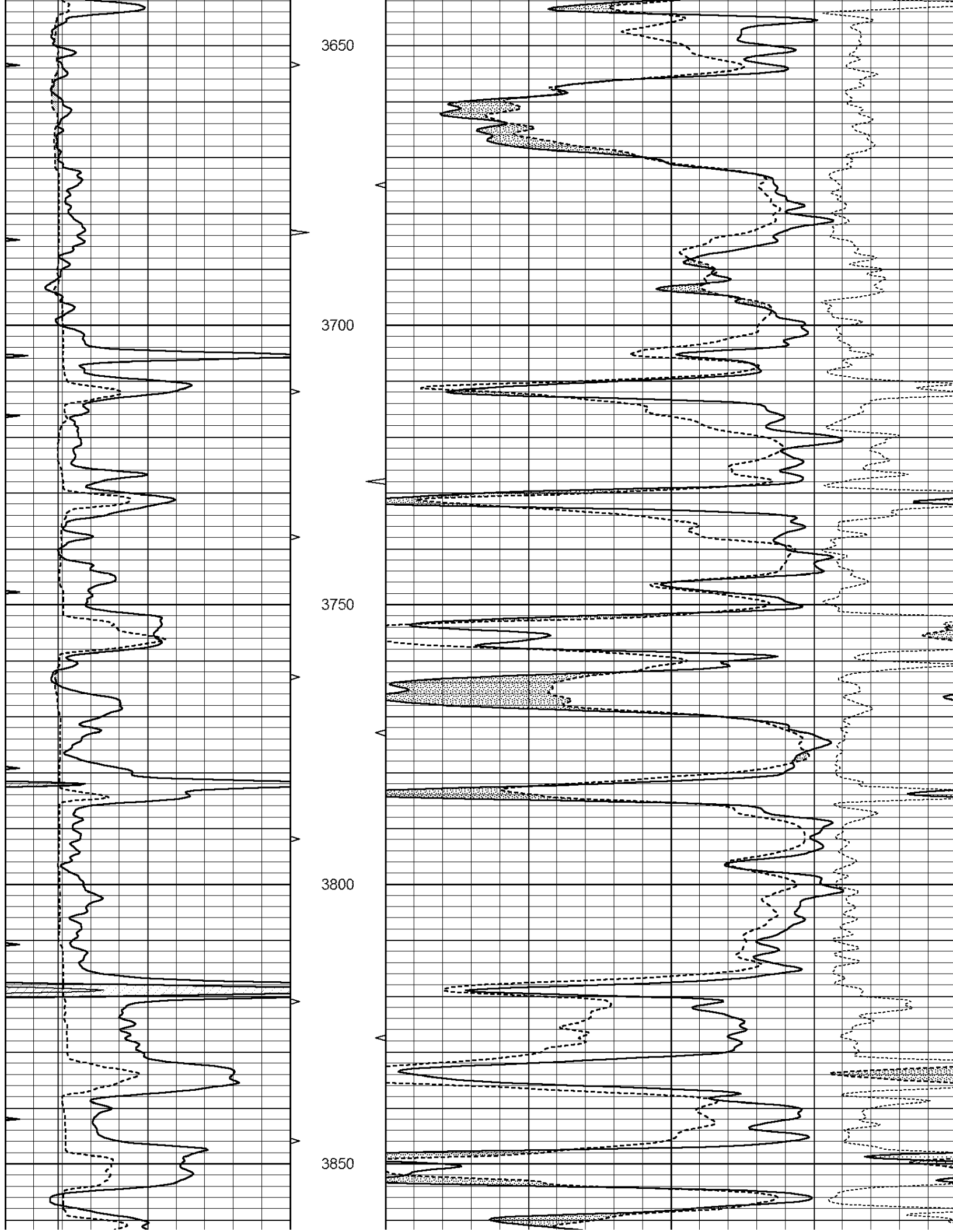
MAIN SECTION

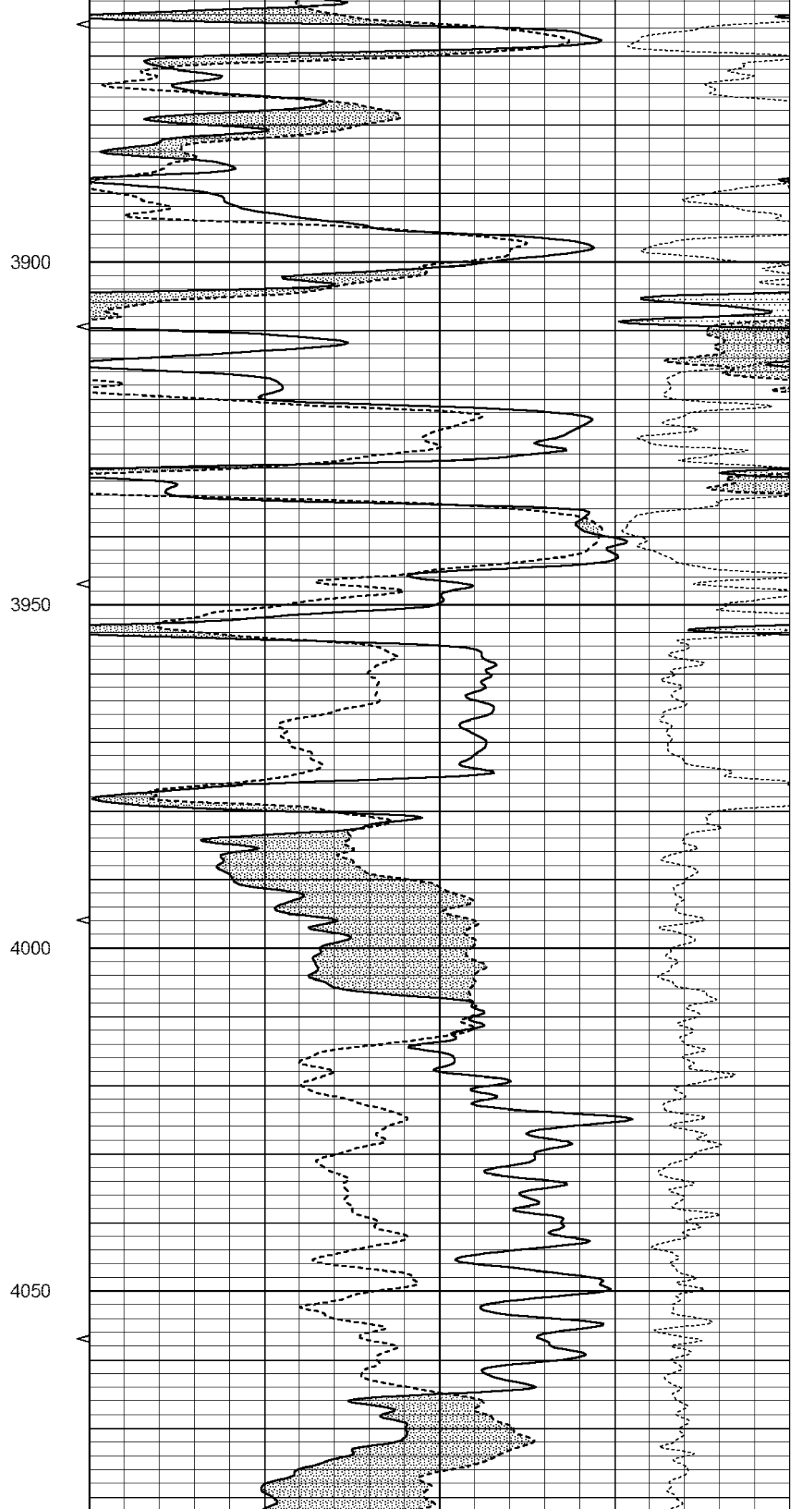
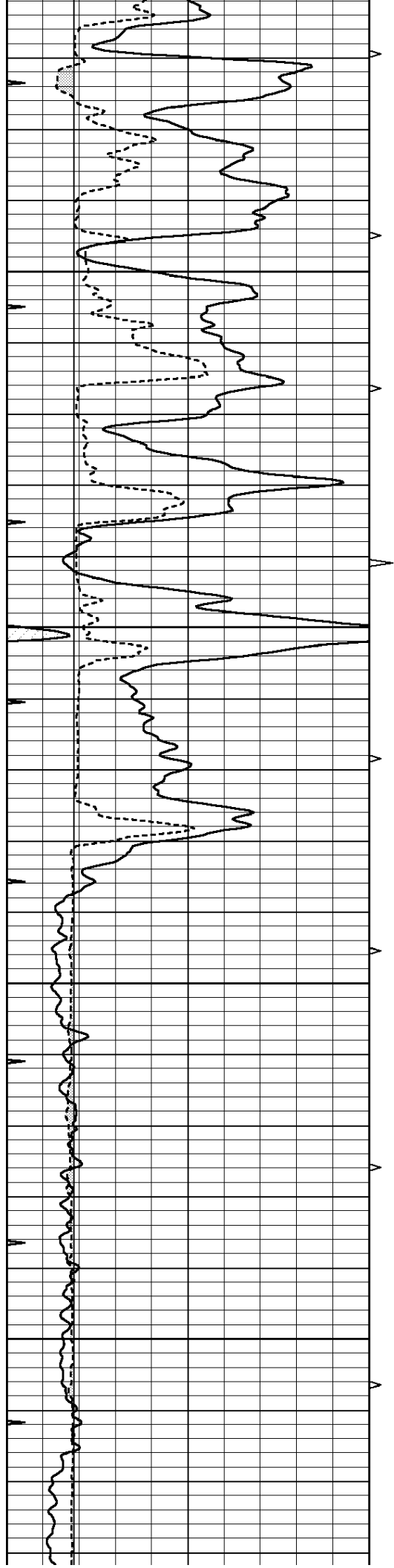
Database File: 26244ddn.db
 Dataset Pathname: pass3.1A
 Presentation Format: _den_neu
 Dataset Creation: Sat Oct 25 01:58:22 2014
 Charted by: Depth in Feet scaled 1:240

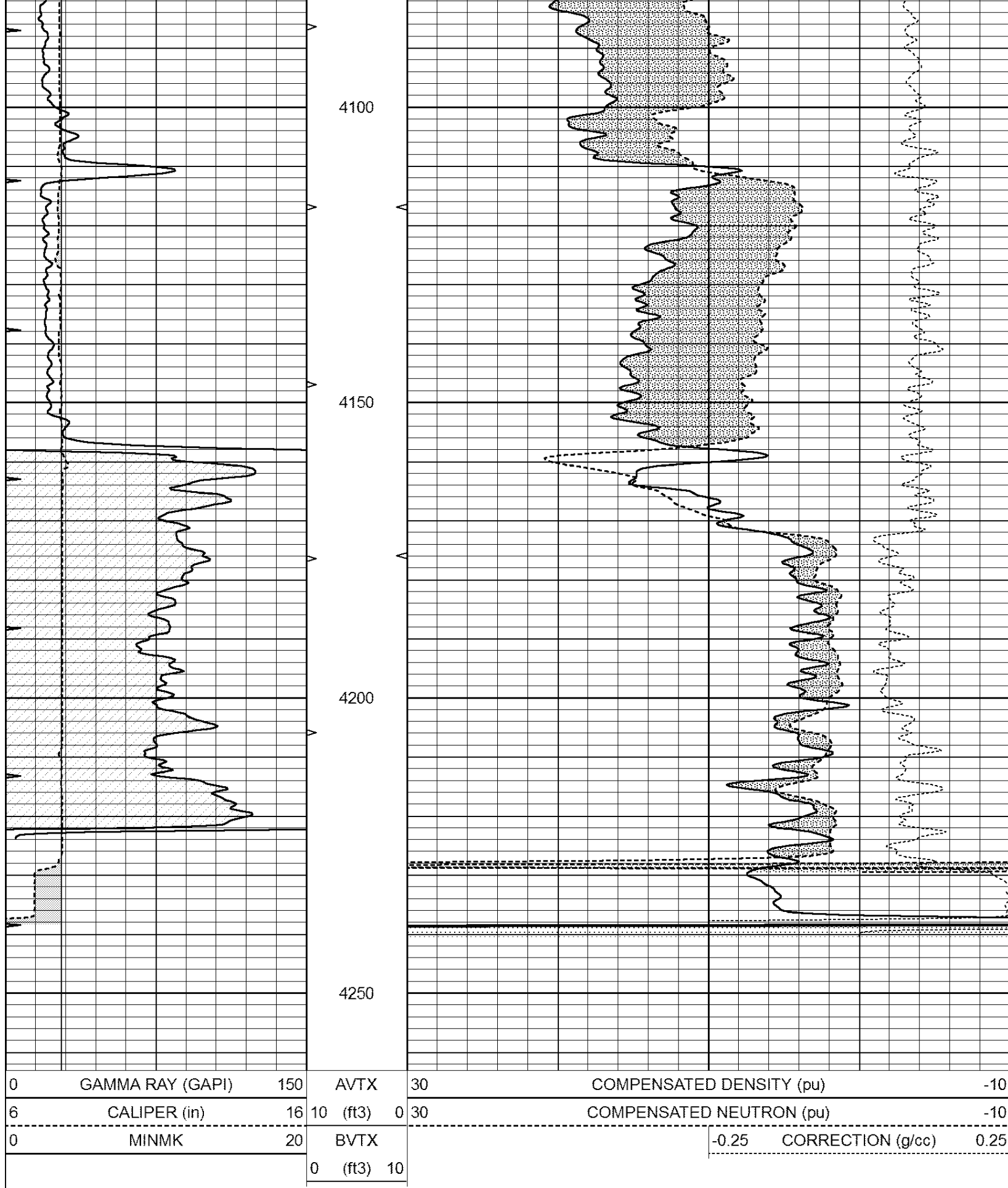
0	GAMMA RAY (GAPI)	150	AVTX	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0 30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	BVTX		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		



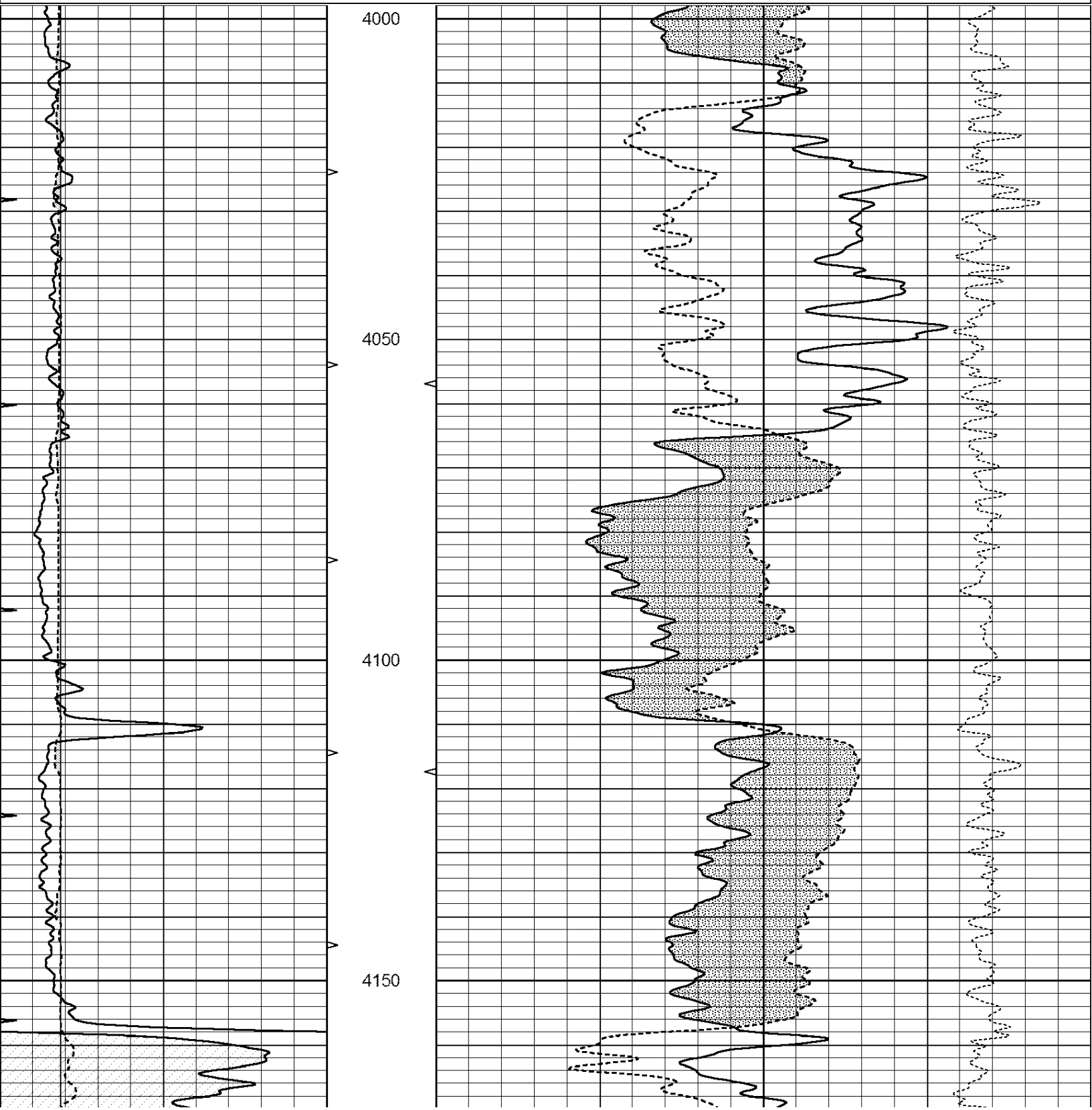


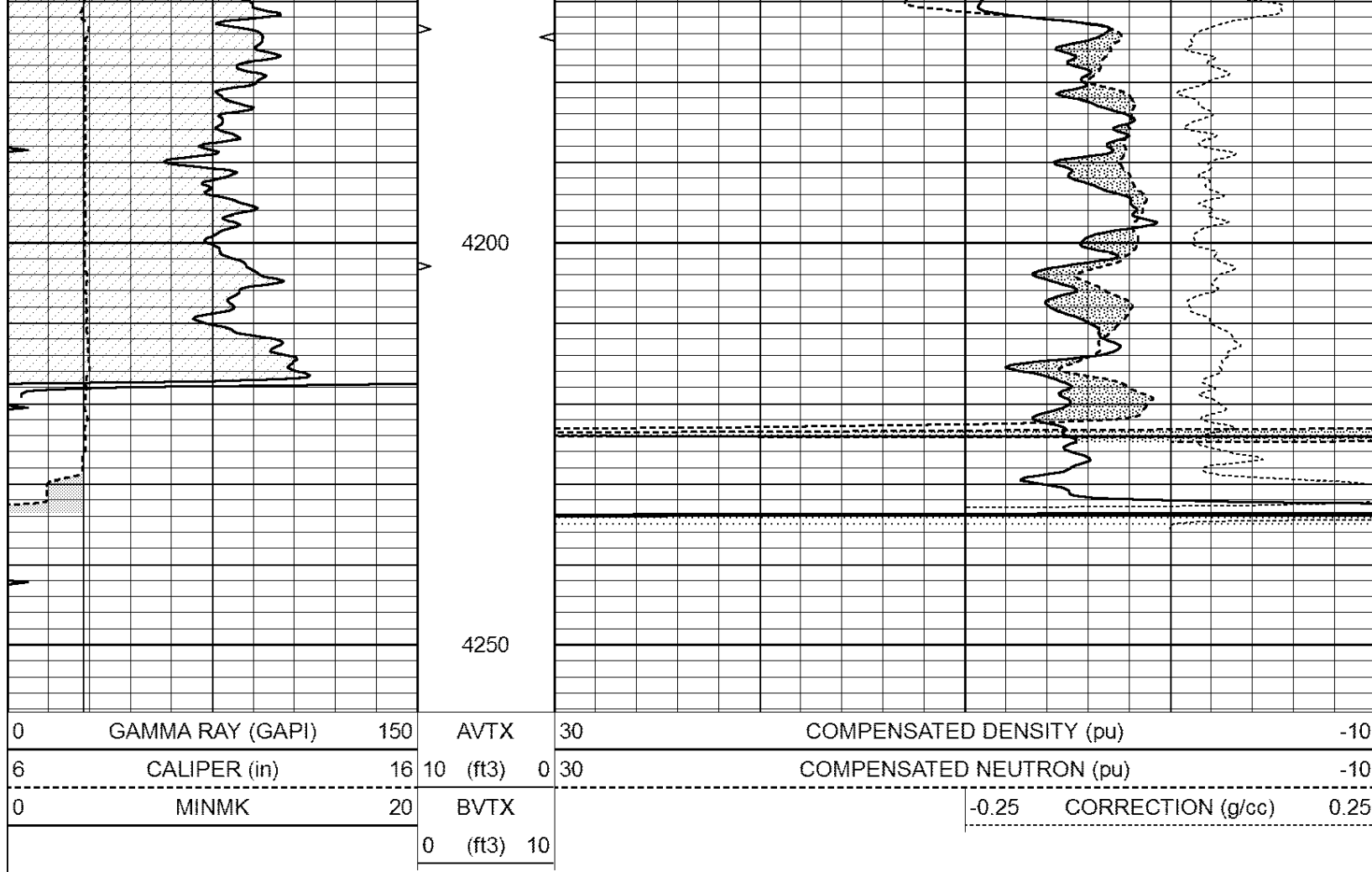






0	GAMMA RAY (GAPI)	150	AVTX	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	BVTX		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10			





Calibration Report

Database File: 26244ddn.db
 Dataset Pathname: pass3.1A
 Dataset Creation: Sat Oct 25 01:58:22 2014

Dual Induction Calibration Report

Serial-Model: PROBE7-DILG
 Surface Cal Performed: Fri Oct 24 23:37:35 2014
 Downhole Cal Performed: Sat Jan 19 19:51:38 2013
 After Survey Verification Performed: Sat Jan 19 19:51:38 2013

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.793	0.790	V	0.000	400.000	mmho/m	550.000	10.000
Medium	0.992	1.002	V	0.000	464.000	mmho/m	580.000	-34.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.041	0.642	V	0.000	400.000	mmho/m	664.874	-27.011
Medium	0.035	0.802	V	0.000	464.000	mmho/m	604.936	-21.367

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	-19.259
Medium	-47330.100	-9381.740	mmho/m	-47327.100	-9389.280	mmho/m	1.000	-10.154
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:				GEAR5-GEARHART			
	Source / Verifier:				147 / 147			
	Master Calibration Performed:				Fri Oct 24 23:45:57 2014			
Master Calibration								
		Density			Far Detector		Near Detector	
Magnesium		1.710	g/cc		943.83		576.01	cps
Aluminum		2.590	g/cc		212.01		399.19	cps
		Spine Angle = 76.20			Density/Spine Ratio = 0.572			
		Size			Reading			
Small Ring		8.40	in		1.64	V		
Large Ring		14.00	in		2.93	V		
Compensated Neutron Calibration Report								
	Serial Number:				080620			
	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:			46001				
	Tool Model:			Probe1				
	Performed:			Fri Oct 24 22:56:55 2014				
	Calibrator Value:			1.0	GAPI			
	Background Reading:			0.0	cps			
	Calibrator Reading:			1.0	cps			
	Sensitivity:			0.2600	GAPI/cps			