



**COMPLETION
& PRODUCTION
SERVICES CO.**

**COMPENSATED
DENSITY / NEUTRON
LOG**

Company	CHARTER ENERGY, INC.		
Well	GREG BITTER #2		
Field	TRAPP		
County	BARTON	State	KANSAS
Location:	API # : 15-009-25823-00-00		Other Services
SEC 16 TWP 16S RGE 13W		DIL/MEL	
Permanent Datum	GROUND LEVEL	Elevation	1919
Log Measured From	KELLY BUSHING 7' A.G.L.	K.B.	1926
Drilling Measured From	KELLY BUSHING	D.F.	1924
		G.L.	1919
Date	03/31/2013		
Run Number	ONE		
Depth Driller	3440		
Depth Logger	3440		
Bottom Logged Interval	3416		
Top Log Interval	2900		
Casing Driller	457'		
Casing Logger	457'		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES	2.000
Density / Viscosity	9.1 / 52		
pH / Fluid Loss	10.5 / 8.4		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.50 @ 78 F		
Rmf @ Meas. Temp	0.38 @ 78 F		
Rmc @ Meas. Temp	0.60 @ 78 F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	0.50 @ 111F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	111F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	JEFF GRONEWEG		
Witnessed By	JIM MUSGROVE		

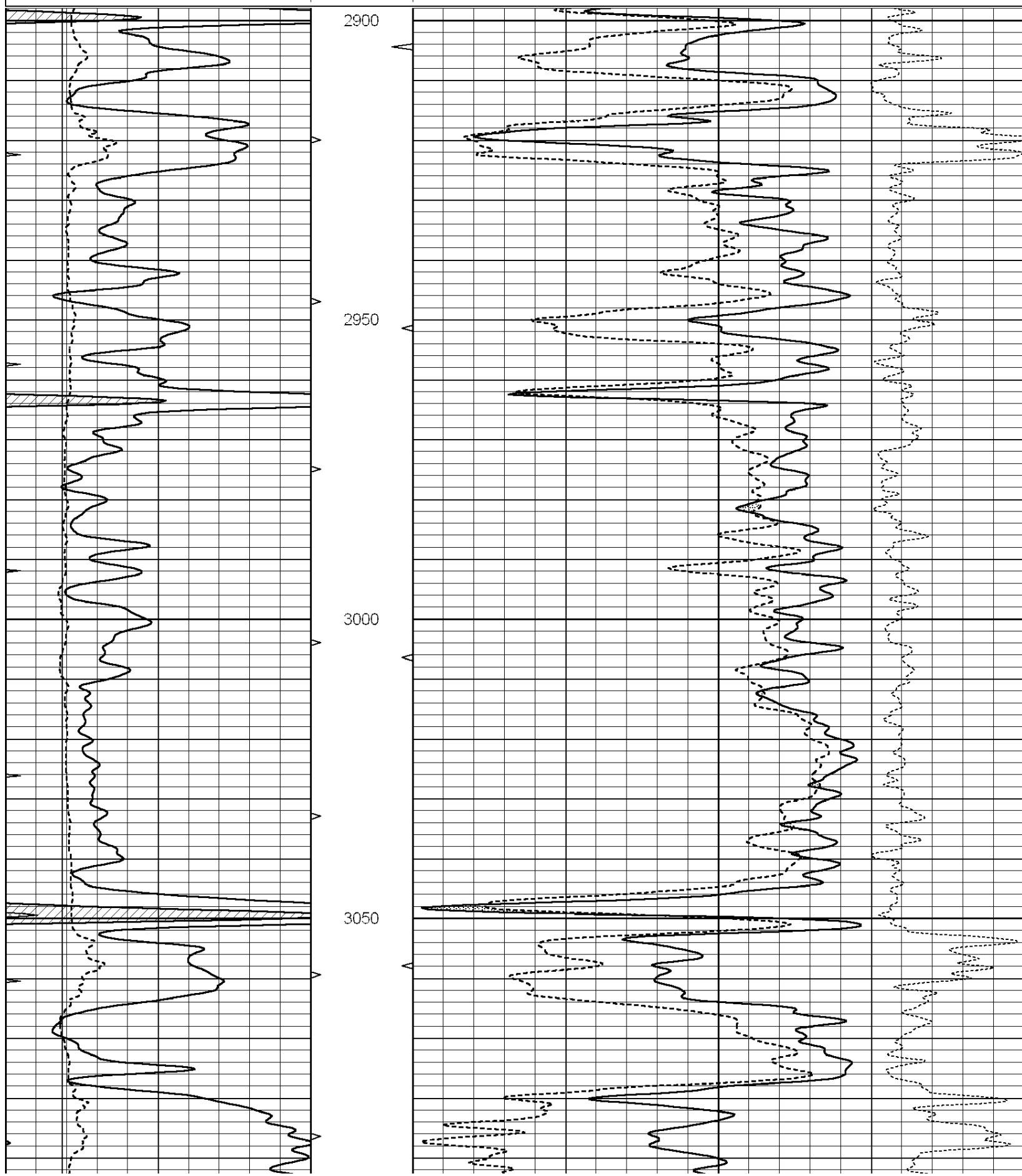
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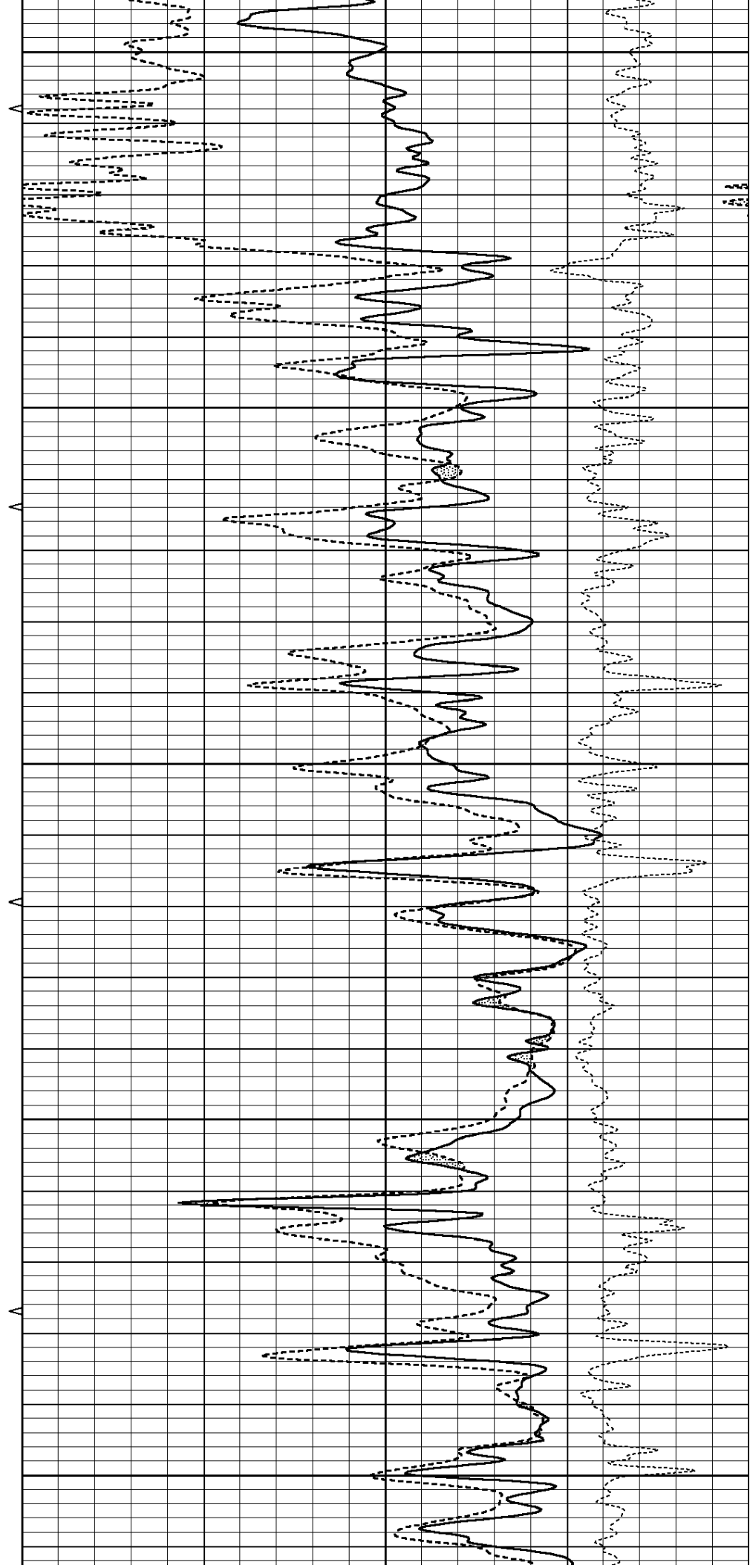
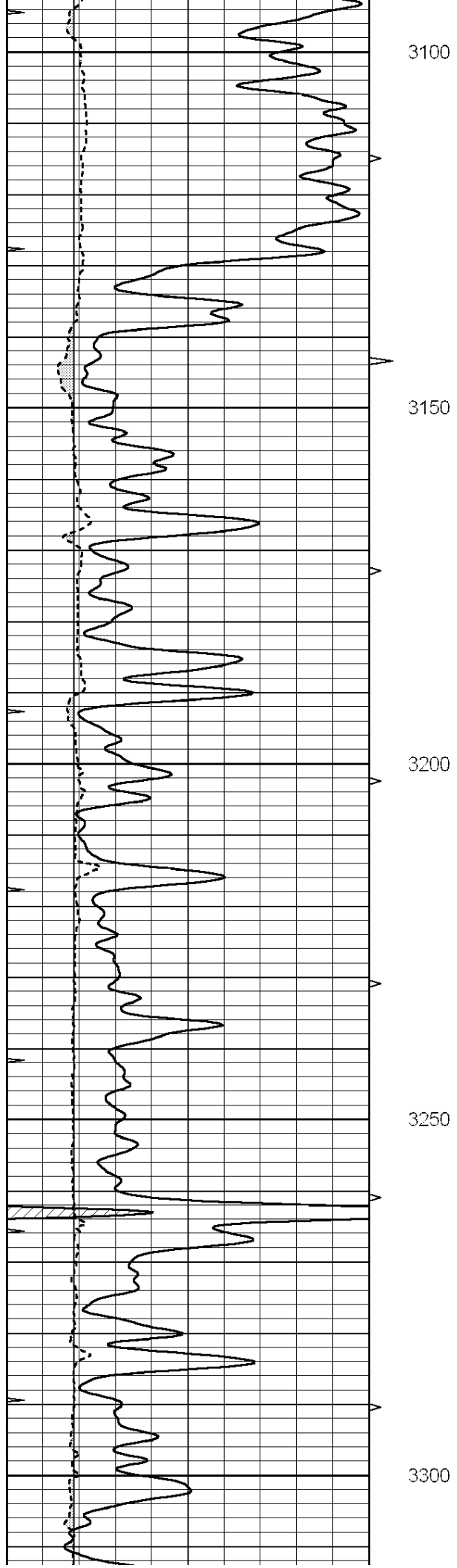
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

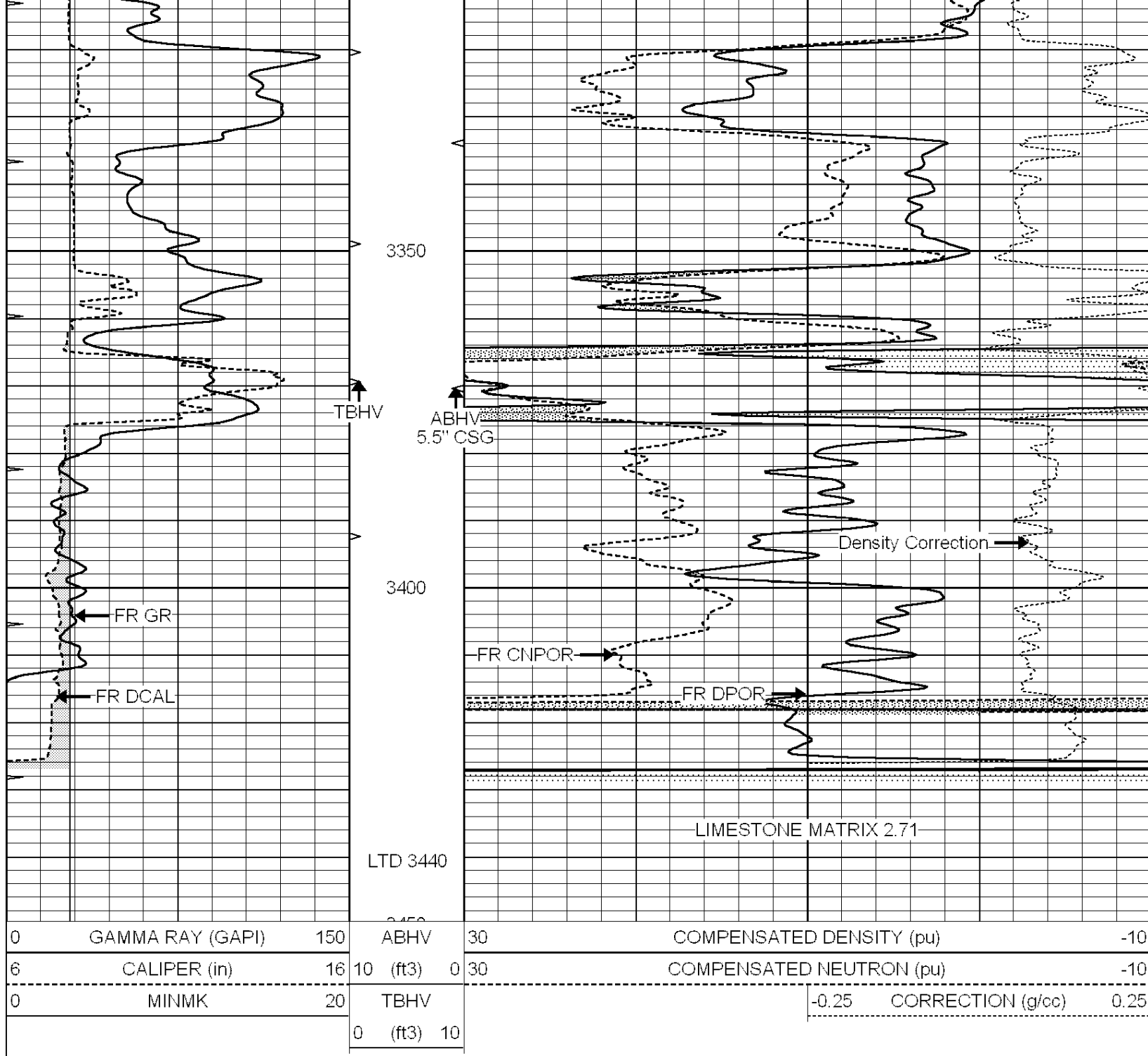
Comments

NABORS COMPLETION & PRODUCTION SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: SUSANK, KS - 2 MILES NORTH TO RD 210 - 1 MILE EAST
1/4 MILE SOUTH - WEST INTO

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			







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REPEAT SECTION

Database File: 010850ddn.db

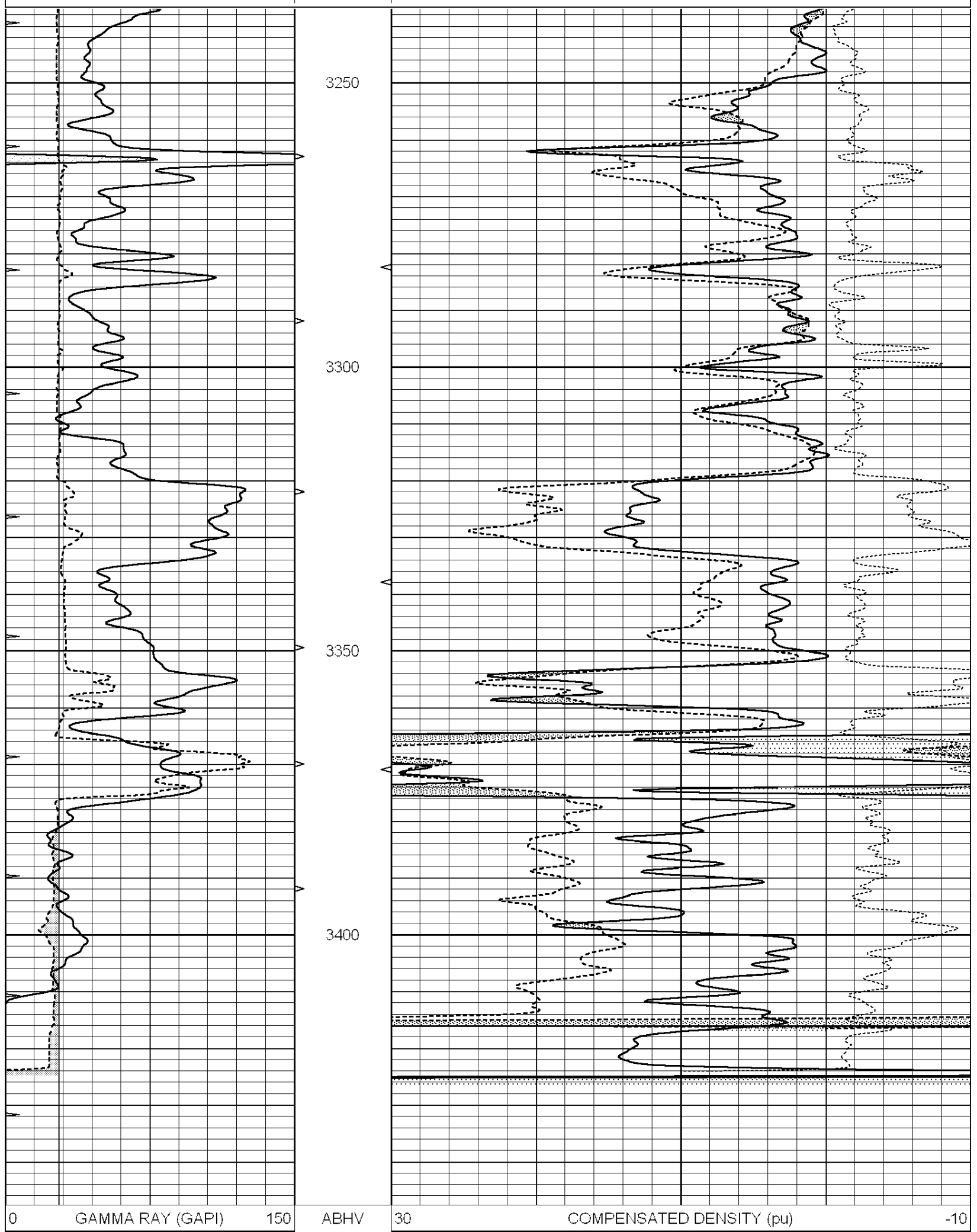
Dataset Pathname: pass2.2

Presentation Format: den_neu

Dataset Creation: Sun Mar 31 08:39:43 2013 by Calc Open-Cased 090629

Charted by: Depth in Feet scaled 1:240

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



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:	010850ddn.db						
Dataset Pathname:	pass3.3						
Dataset Creation:	Sun Mar 31 08:33:18 2013 by Calc Open-Cased 090629						

Dual Induction Calibration Report							
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Serial-Model:	PROBE7-DILG						
Surface Cal Performed:	Tue Mar 26 01:01:54 2013						
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	620.000 0.000
Medium	0.992	1.002	V	0.000	464.000	mmho/m	680.000 -48.000
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 0.000
Medium	0.000	0.000	mmho/m	-47330.100	-9381.740	mmho/m	1.000 0.000
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							
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Serial-Model:	GEAR1-GEARHART						
Source / Verifier:	147 / 147						
Master Calibration Performed:	Mon Mar 25 23:10:31 2013						

Master Calibration							
		Density		Far Detector		Near Detector	
Magnesium		1.710	g/cc		1205.77	610.74	cps
Aluminum		2.590	g/cc		271.21	419.72	cps
Spine Angle = 75.89				Density/Spine Ratio = 0.572			
		Size		Reading			

Small Ring	7.10	in	4.69	V	
Large Ring	14.00	in	6.52	V	
Compensated Neutron Calibration Report					
		Serial Number:	NEU_4I		
		Tool Model:	G		
CALIBRATION					
	Detector	Readings		Target	Normalization
	Short Space	1.00	cps	1.00	cps 1.0000
	Long Space	1.00	cps	1.00	cps 1.0000
Gamma Ray Calibration Report					
Serial Number:		GR5			
Tool Model:		OPEN			
Performed:		Tue Mar 26 03:22:48 2013			
Calibrator Value:		1.0	GAPI		
Background Reading:		0.0	cps		
Calibrator Reading:		1.0	cps		
Sensitivity:		2.1000	GAPI/cps		