



**COMPLETION
& PRODUCTION
SERVICES CO.**

**COMPENSATED
DENSITY / NEUTRON
LOG**

Company	ETERNITY EXPLORATION, LLC.	Company	ETERNITY EXPLORATION, LLC.
Well	BETTY WERTH #4	Well	BETTY WERTH #4
Field	GURK NORTH	Field	GURK NORTH
County	GRAHAM	County	GRAHAM
State	KANSAS	State	KANSAS
Location:	API # : 15-065-23933-00-00 2170' FNL & 1650' FEL N2 - SE - SW - NE SEC 7 TWP 10S RGE 25W	Other Services	DIL
Permanent Datum	GROUND LEVEL	Elevation	2528
Log Measured From	KELLY BUSHING 5' A.G.L.	K.B.	2533
Drilling Measured From	KELLY BUSHING	D.F.	2531
		G.L.	2528
Date	6/4/13		
Run Number	ONE		
Depth Driller	4075		
Depth Logger	4074		
Bottom Logged Interval	4050		
Top Log Interval	3600		
Casing Driller	218		
Casing Logger	217		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES	3.100
Density / Viscosity	9.2 / 54		
pH / Fluid Loss	10.0 / 8.4		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.80 @ 86F		
Rmf @ Meas. Temp	0.60 @ 86F		
Rmc @ Meas. Temp	0.96 @ 86F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	0.58 @ 117F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	117F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	IAN MABB		
Witnessed By	WYATT URBAN	CARLO UGOLINI	

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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.

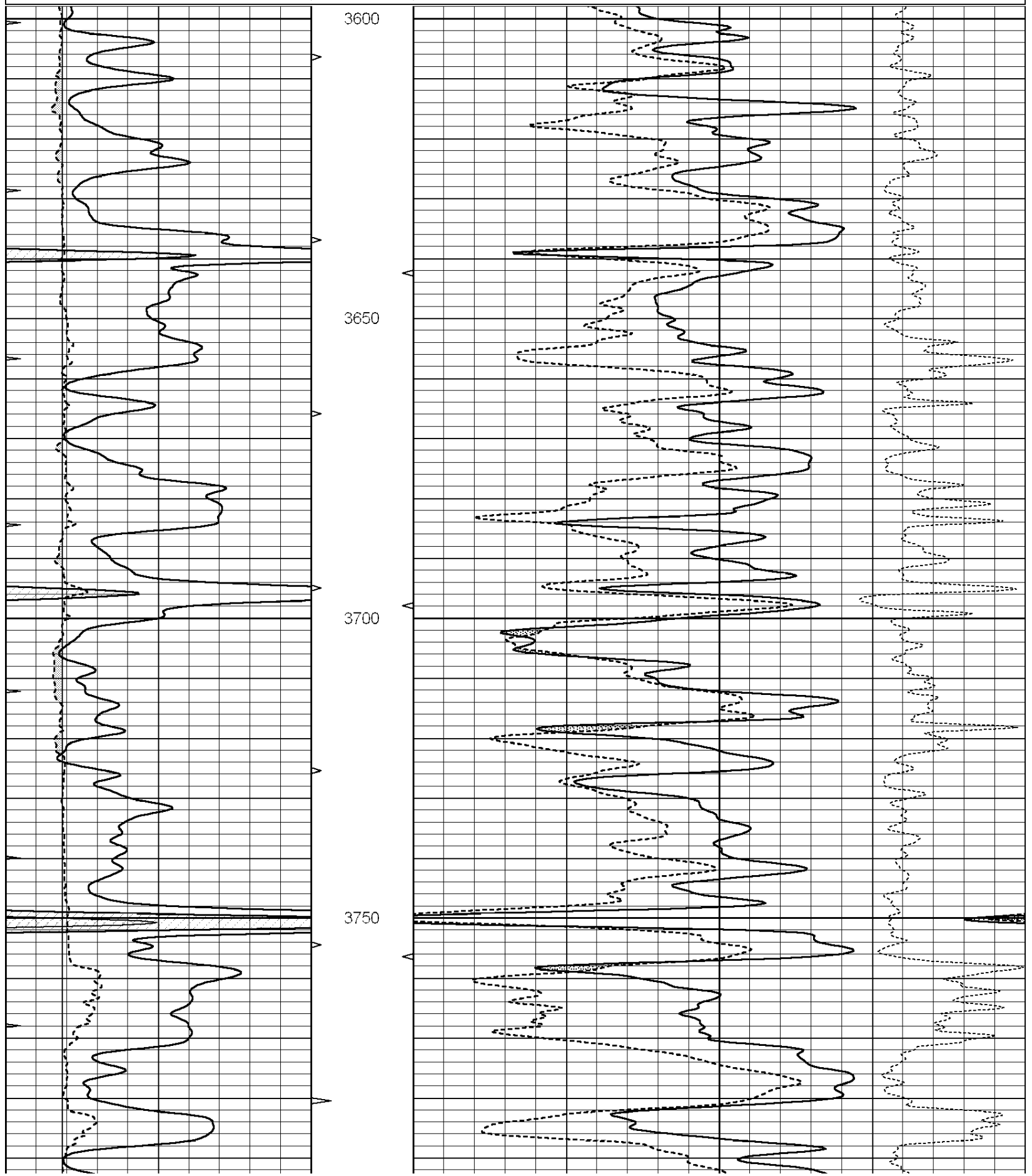
Comments

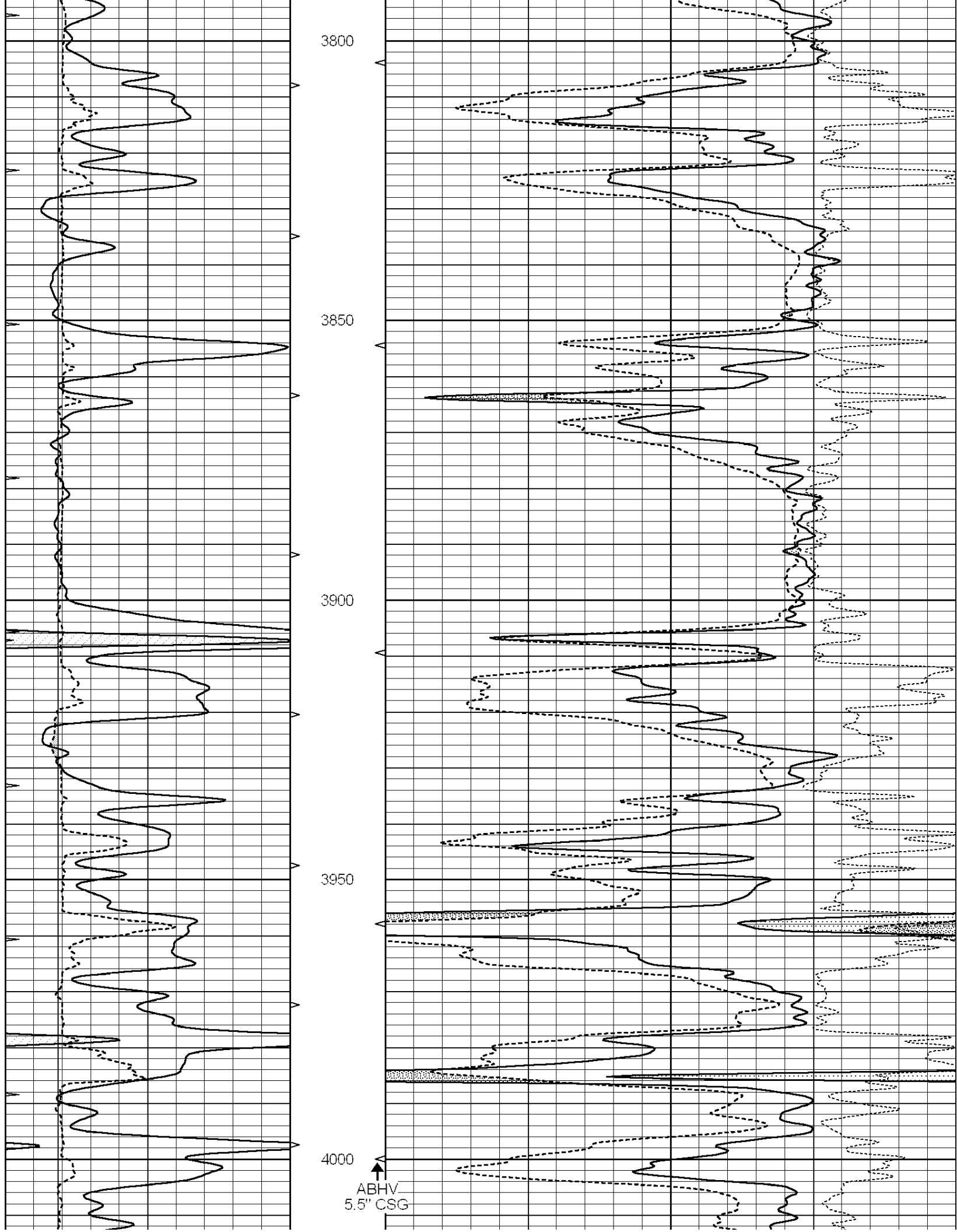
NABORS COMPLETION & PRODUCTION SERVICES
785-628-6395

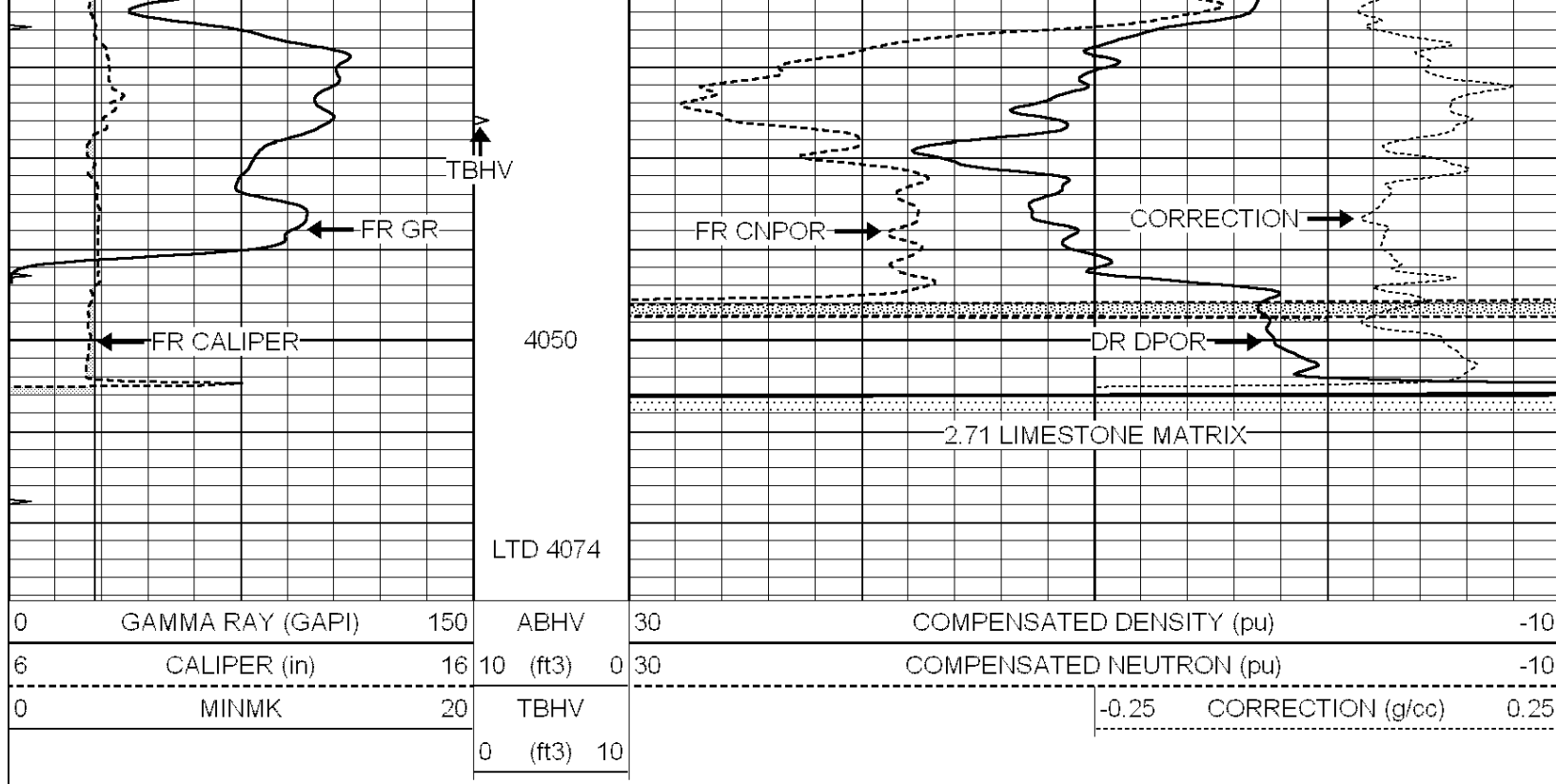
THANK YOU FOR YOUR BUSINESS

DIRECTIONS: ST. PETER, KS. - 1 MILE NORTH TO RD. F WEST TO THE END OF THE ROAD - FOLLOW
LEASE RD. WEST 1/2 MILE SOUTH 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			



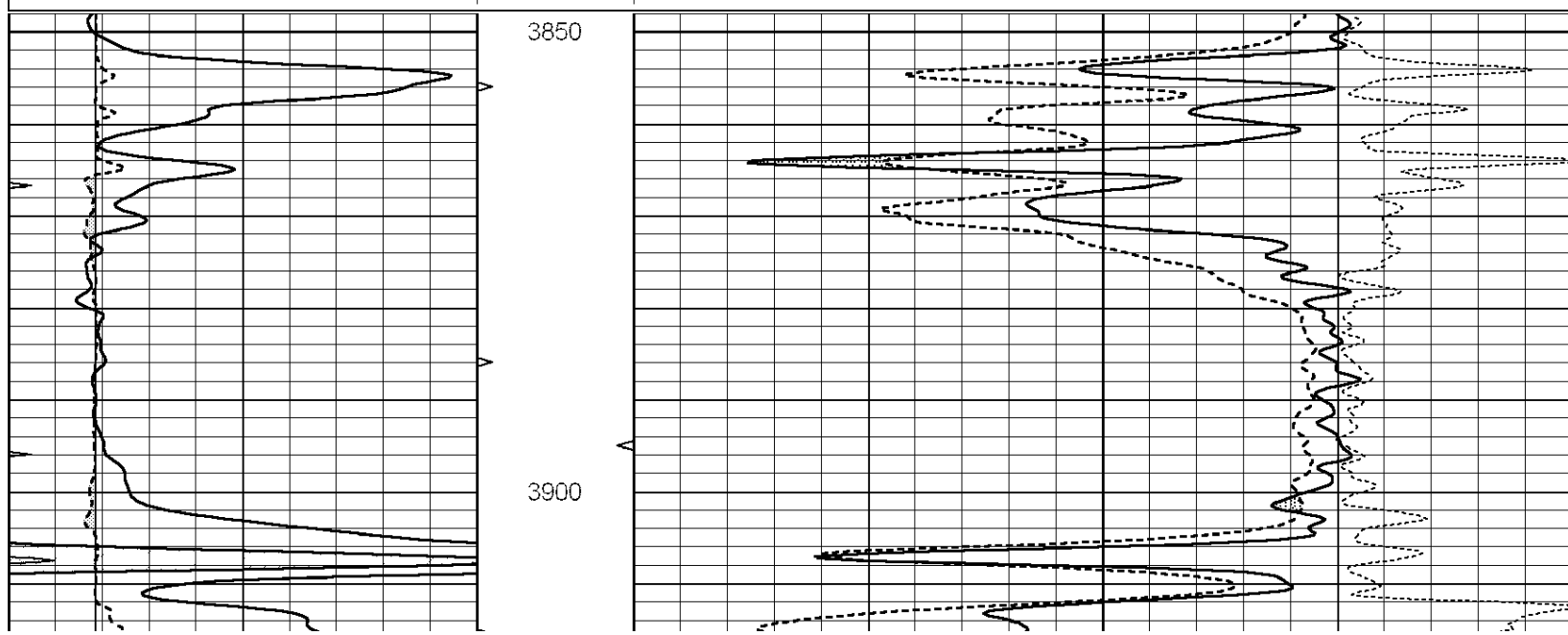


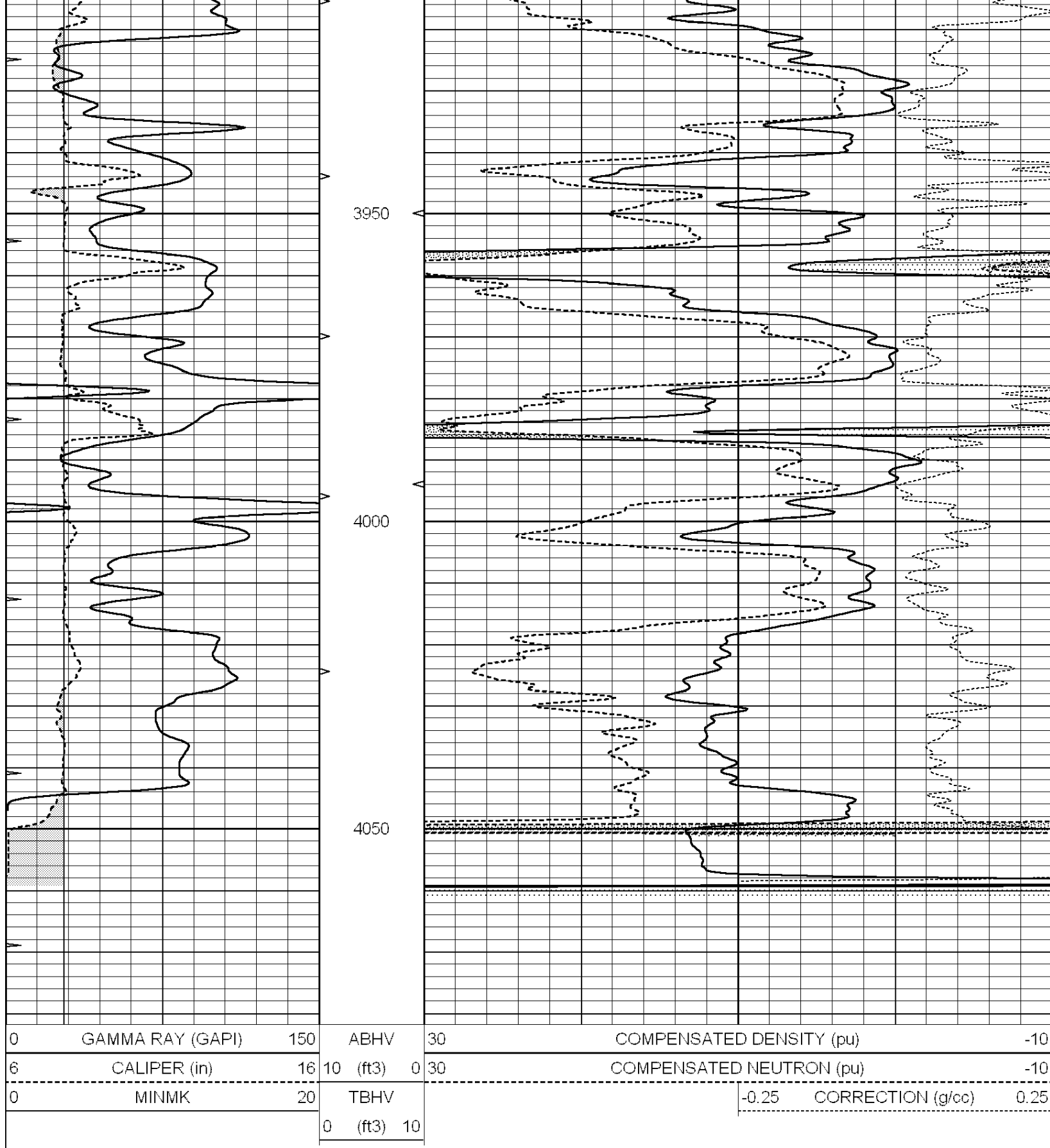


REPEAT SECTION

Database File: 010186ddn.db
 Dataset Pathname: pass2.4
 Presentation Format: _den_neu
 Dataset Creation: Tue Jun 04 06:06:14 2013 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: 010186ddn.db
Dataset Pathname: pass3.1
Dataset Creation: Tue Jun 04 06:21:32 2013 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model:

PROBE7-DILG

Surface Cal Performed:
Downhole Cal Performed:
After Survey Verification Performed:

Sun May 19 13:30:40 2013
Sat Jan 19 19:51:38 2013
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	7.000
Medium	0.992	1.002	V	0.000	464.000	mmho/m	660.000	-38.000
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

Serial-Model: GEAR1-GEARHART
Source / Verifier: 147 / 147
Master Calibration Performed: Mon May 13 17:25:39 2013

Master Calibration

	Density			Far Detector		Near Detector	
Magnesium	1.710	g/cc		1205.77		610.74	cps
Aluminum	2.600	g/cc		271.21		419.72	cps
Spine Angle = 75.89				Density/Spine Ratio = 0.579			
	Size			Reading			
Small Ring	7.70	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:	GR1	
Tool Model:	OPEN	
Performed:	Fri May 31 12:01:32 2013	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.9500	GAPI/cps