NABORS COMPLETION & PRODUCTION SERVICES CO.

MICRO LOG

Company	L. D. DRILLING, INC.
Well	#2-16 FLORINE
Field	LAUD WEST
County	BARTON
State	KANSAS

Company L.D. DRILLING, INC.
Well #2-16 FLORINE
Field LAUD WEST
County BARTON State KANSAS
Location: API # : 15-009-25893-00-00
968' FSL & 1442' FEL
NE - SW - SE
SEC 16 TWP 18S RGE 14W

Permanent Datum GROUND LEVEL Elevation 1933
Log Measured From KELLY BUSHING 5' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
CNL/CDL
DIL/SON

Elevation
K.B. 1938
D.F. 1936
G.L. 1933

Date	11/8/13		
Run Number	TWO		
Depth Driller	3550		
Depth Logger	3552		
Bottom Logged Interval	3532		
Top Log Interval	2800		
Casing Driller	8 5/8" @ 897'		
Casing Logger	900		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4,000 PPM	
Density / Viscosity	9.1/54		
pH / Fluid Loss	9.5/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.80 @ 80F		
Rmf @ Meas. Temp	0.60 @ 80F		
Rmc @ Meas. Temp	0.96 @ 80F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	0.57 @ 112F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	111F		
Equipment Number	4854		
Location	HAYS, KANSAS		
Recorded By	IAN MABB		
Witnessed By	KIM SHOEMAKER		

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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.

15-167-23894-0000 Comments

THANK YOU FOR USING NABORS, HAYS, KS. (785) 628-6395
DIRECTIONS:
HOISINGTON, KS. - WEST TO HWY 4 & 281 JCT. - 4 MILES SOUTH TO RD. 80 - 1 1/4 MILES WEST - NORTH INTO

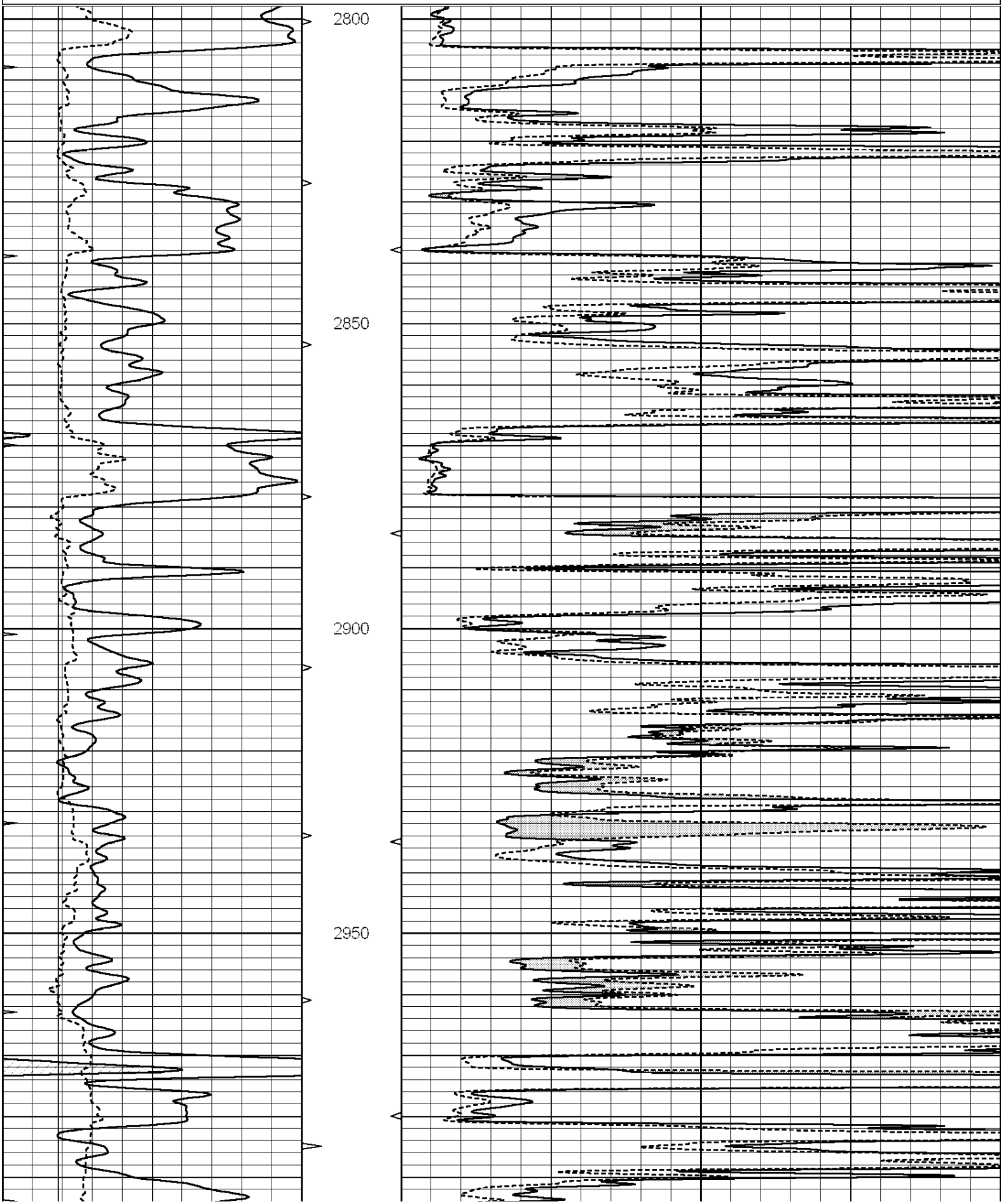
Database File:	011804ddn.db
Dataset Pathname:	pass7.1
Presentation Format:	_micro
Dataset Creation:	Fri Nov 08 23:43:51 2013 by Calc SOC 120430
Charted by:	Depth in Feet scaled 1:240

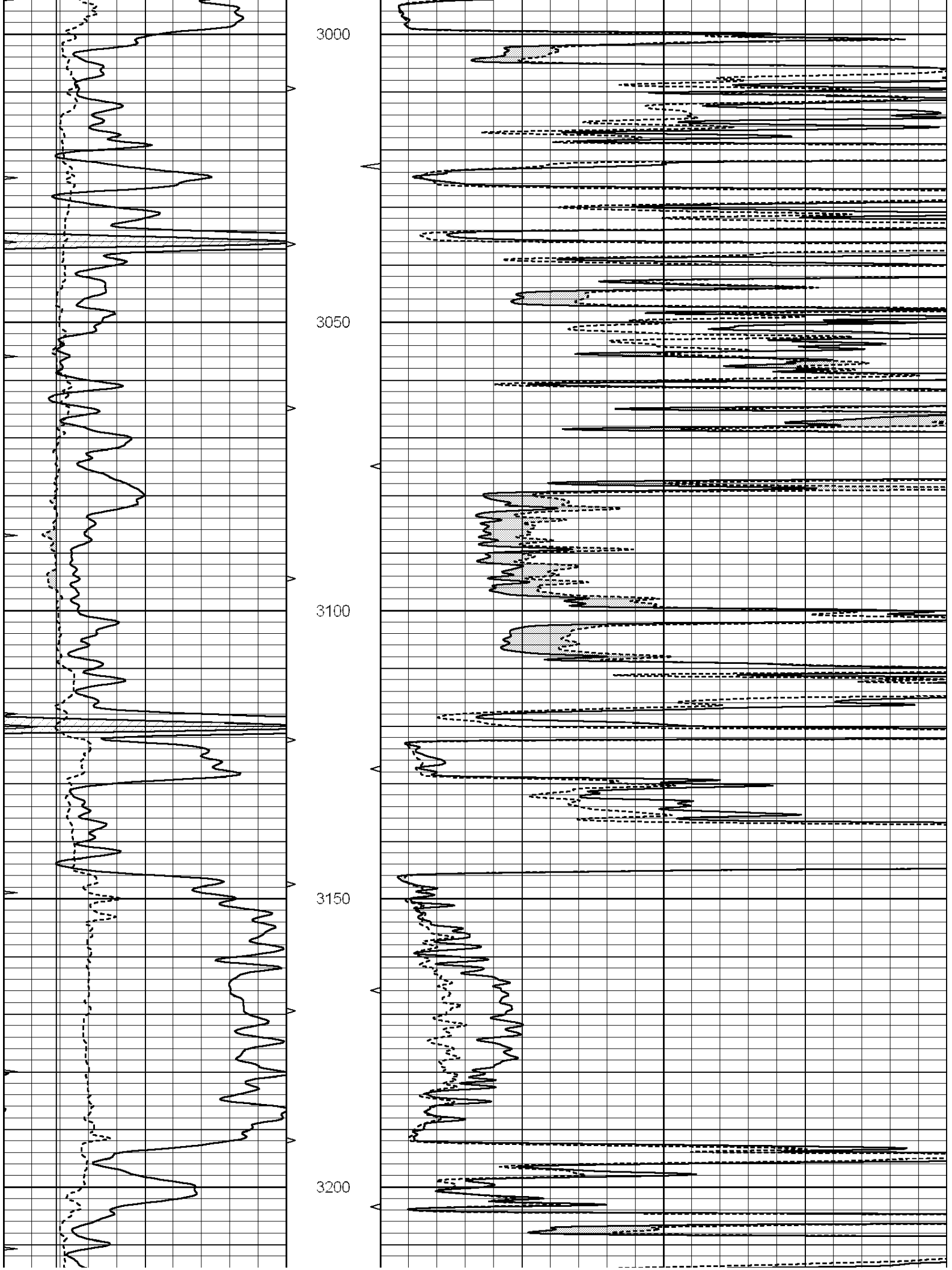
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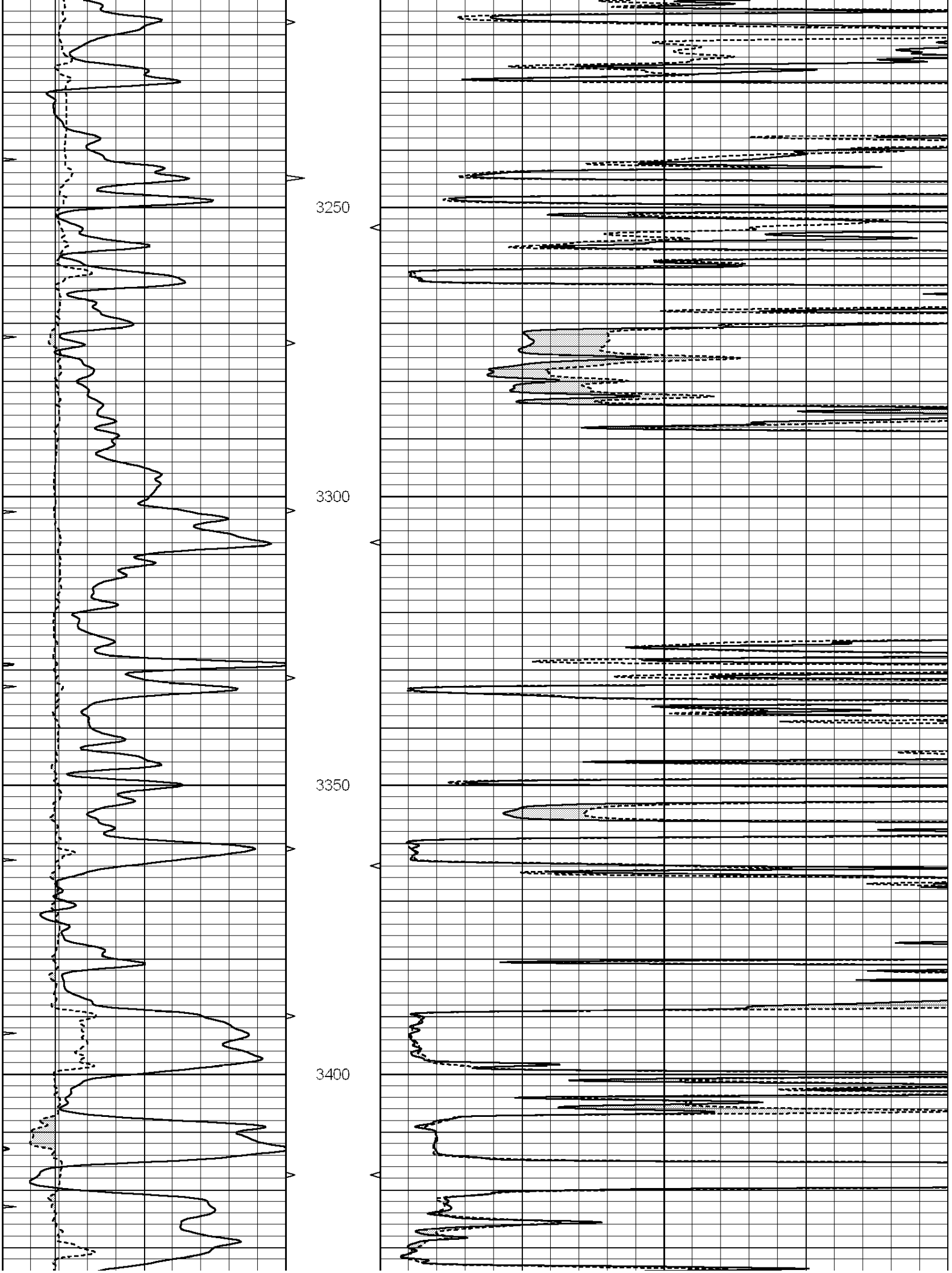
0	GAMMA RAY (GAPI)	150
6	CALIPER (in)	16
0	MINMK	20

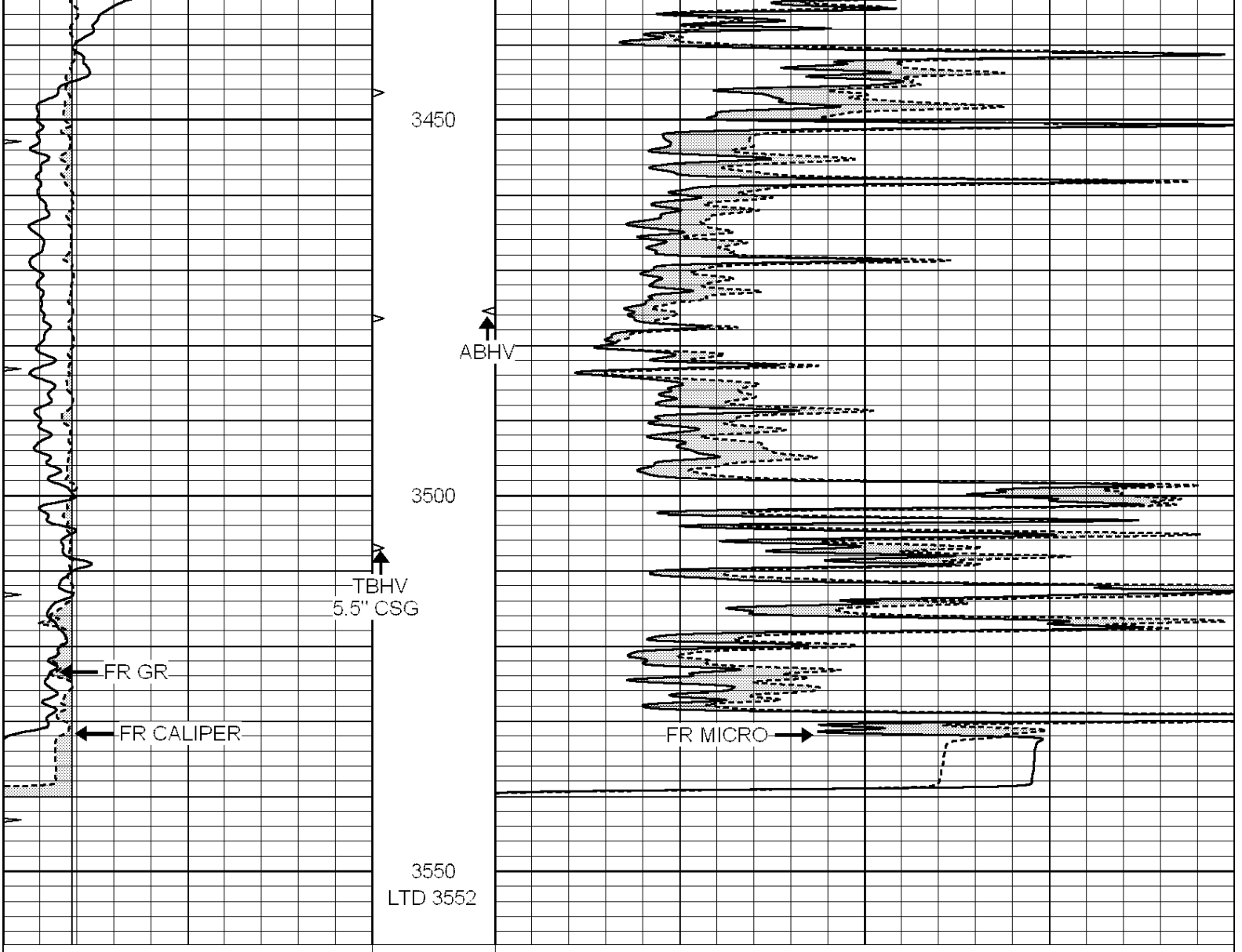
ABHV		
10	(ft3)	0
TBHV		
0	(ft3)	10

0	MEL1.5 (Ohm-m)	40
0	MEL2.0 (Ohm-m)	40




3000
3050
3100
3150
3200


3250
3300
3350
3400



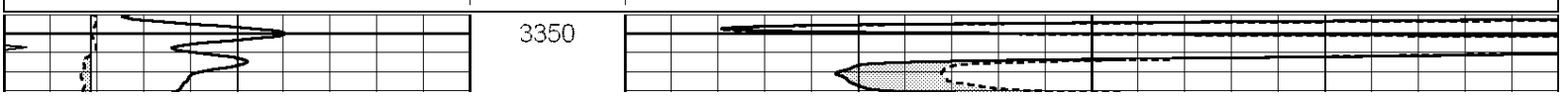
0	GAMMA RAY (GAPI)	150	ABHV	0	MEL1.5 (Ohm-m) 40
6	CALIPER (in)	16	10 (ft3) 0	0	MEL2.0 (Ohm-m) 40
0	MINMK	20	TBHV		
			0 (ft3) 10		

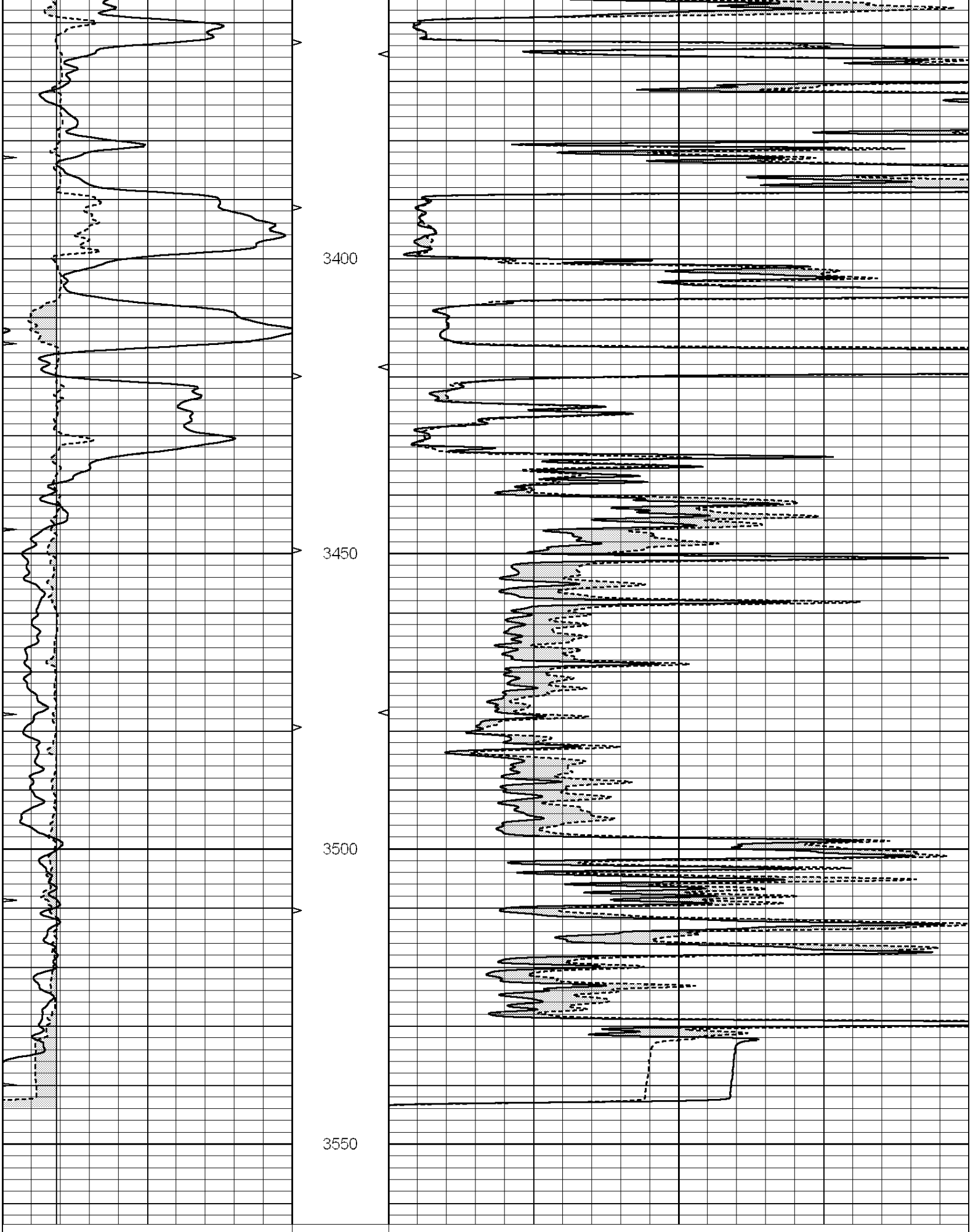
NABORS
COMPLETION & PRODUCTION SERVICES CO.

REPEAT SECTION

Database File: 011804ddn.db
Dataset Pathname: pass6.1
Presentation Format: _micro
Dataset Creation: Fri Nov 08 23:13:28 2013 by Calc SOC 120430
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	0	MEL1.5 (Ohm-m) 40
6	CALIPER (in)	16	10 (ft3) 0	0	MEL2.0 (Ohm-m) 40
0	MINMK	20	TBHV		
			0 (ft3) 10		




3400
3450
3500
3550
0 GAMMA RAY (GAPI) 150
6 CALIPER (in) 16
0 MINMK 20
ABHV
10 (ft3) 0
TBHV
0 MEL1.5 (Ohm-m) 40
0 MEL2.0 (Ohm-m) 40

	0	(ft3) 10

Calibration Report

Database File: 011804ddn.db
Dataset Pathname: pass7.1
Dataset Creation: Fri Nov 08 23:43:51 2013 by Calc SOC 120430

MICRO Calibration Report

Serial Number:	MICRO5	
Tool Model:	PROBE	
Performed:	Fri Nov 01 08:18:01 2013	
Caliper Calibration:	Gain=3.347	Offset=-5.244
	Low Cal	High Cal
References	8.500	15.000
Readings	4.106	6.048
1.5" Calibration:	Gain=42.000	Offset=-1.000
	Low Cal	High Cal
References	0.000	20.000
Readings	0.015	1.005
2" Calibration:	Gain=52.000	Offset=-1.000
	Low Cal	High Cal
References	0.000	20.000
Readings	0.009	0.910

Gamma Ray Calibration Report

Serial Number:	GR3	
Tool Model:	OPEN	
Performed:	Sun Nov 03 23:48:19 2013	
Calibrator Value:	200.0	GAPI
Background Reading:	3.0	cps
Calibrator Reading:	186.0	cps
Sensitivity:	1.3000	GAPI/cps