



**COMPLETION
& PRODUCTION
SERVICES CO.**

**MICRO
LOG**

Company L.D. DRILLING INC.	
Well	BARNES #1-21
Field	WILDCAT
County	BARTON
State	KANSAS
Location: API # : 15-009-26044-00-00	
1882' FNL & 1864' FWL SE - NW - SE - NW	
Other Services CNL/CDL DIL/SON	
SEC 21 TWP 18S RGE 14W	
Permanent Datum	GROUND LEVEL Elevation 1926
Log Measured From	KELLY BUSHING 5' A.G.L.
Drilling Measured From	KELLY BUSHING
Date	11/10/14
Run Number	TWO
Depth Driller	3463
Depth Logger	3457
Bottom Logged Interval	3435
Top Log Interval	2800
Casing Driller	8 5/8" @ 914'
Casing Logger	914'
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.2/5.1
pH / Fluid Loss	10.0/8.8
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.80 @ 60F
Rmt @ Meas. Temp	.60 @ 60F
Rmc @ Meas. Temp	.96 @ 60F
Source of Rmt / Rmc	MEASUREMENT
Rm @ BHT	.43 @ 111F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	
Maximum Recorded Temperature	111F
Equipment Number	4010
Location	HAYS, KANSAS
Recorded By	IAN MABB
Witnessed By	KURT TALBOTT

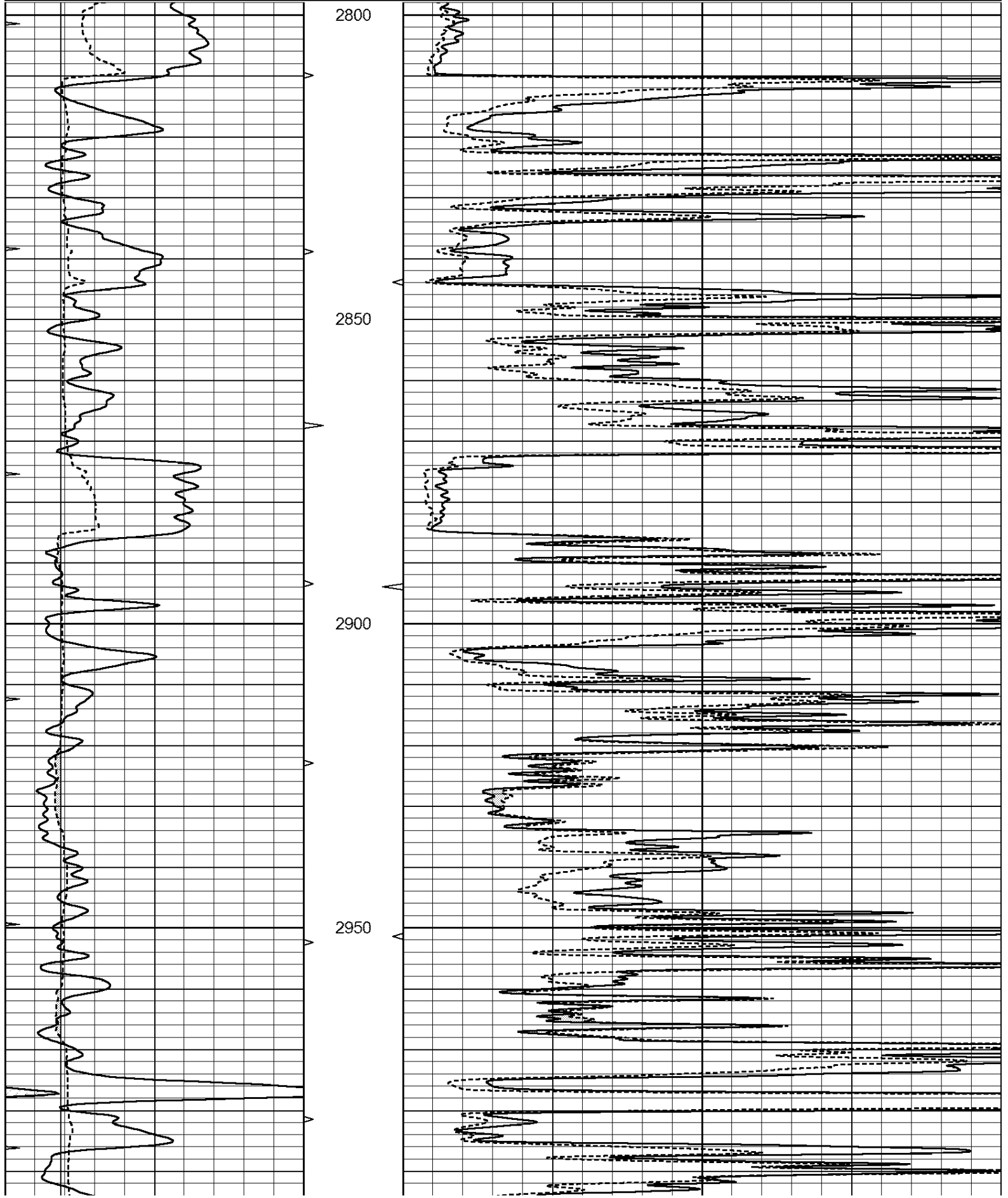
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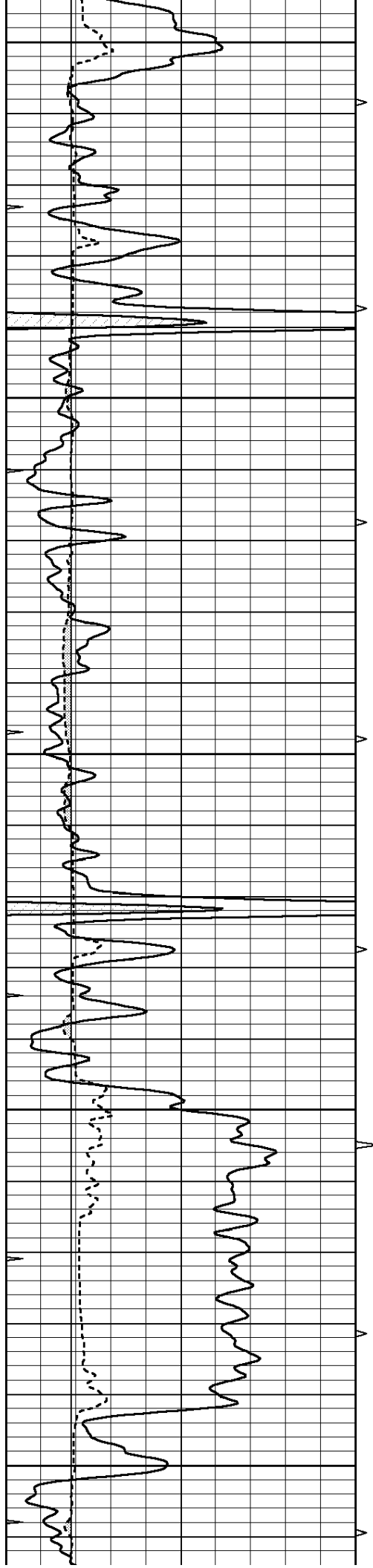
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

THANK YOU FOR USING NABORS, HAYS, KS. (785) 628-6395
DIRECTIONS:
281 & HWY 4 - 4 MILES SOUTH - WEST 2 MILES - SOUTH 1/2 - EAST INTO

Charted by: _____			Depth in Feet scaled 1:2.10			
0	GAMMA RAY (GAPI)	150	ABHV	0	MEL1.5 (Ohm-m)	40
6	CALIPER (in)	16		0	MEL2.0 (Ohm-m)	40
-----			-----			
0	MINMK	20	TBHV			
			0 (ft3) 10			





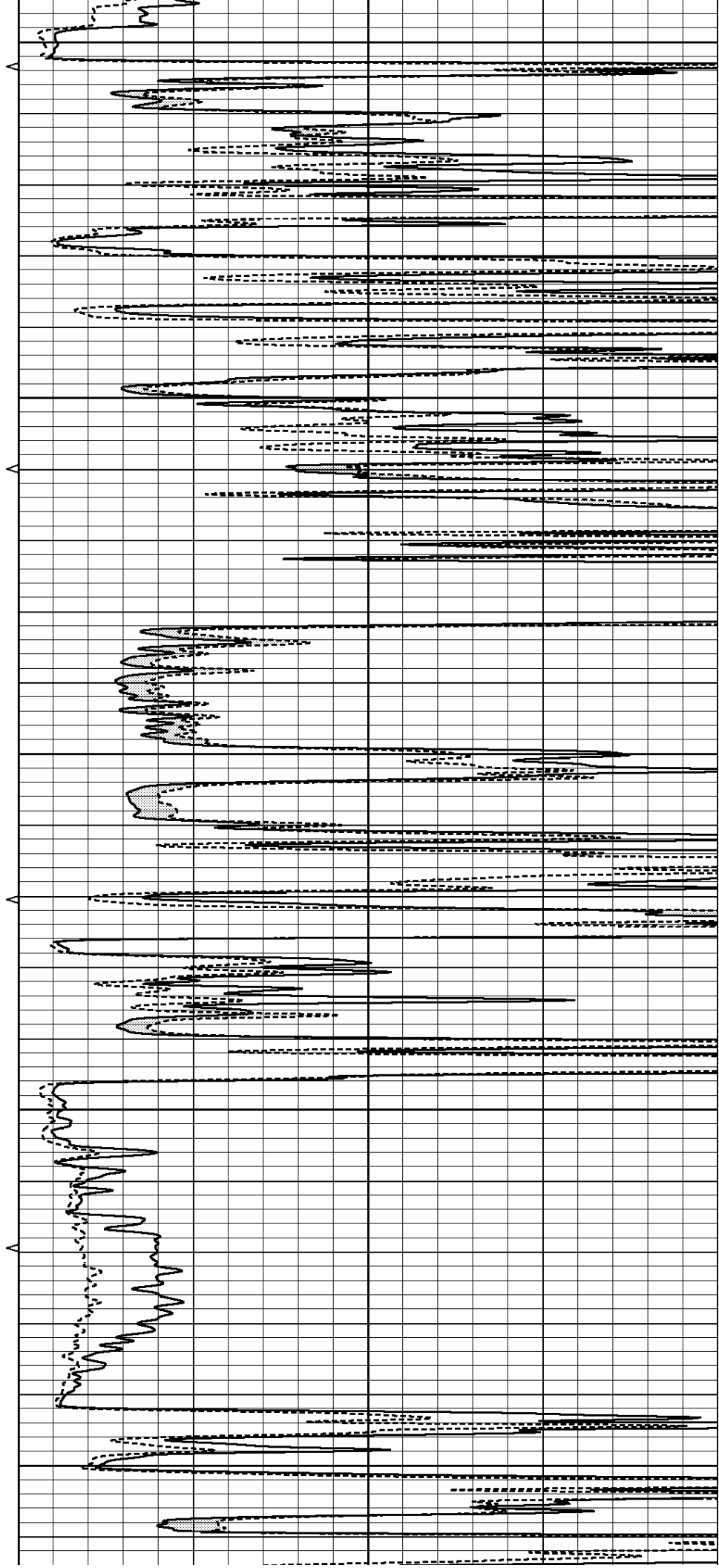
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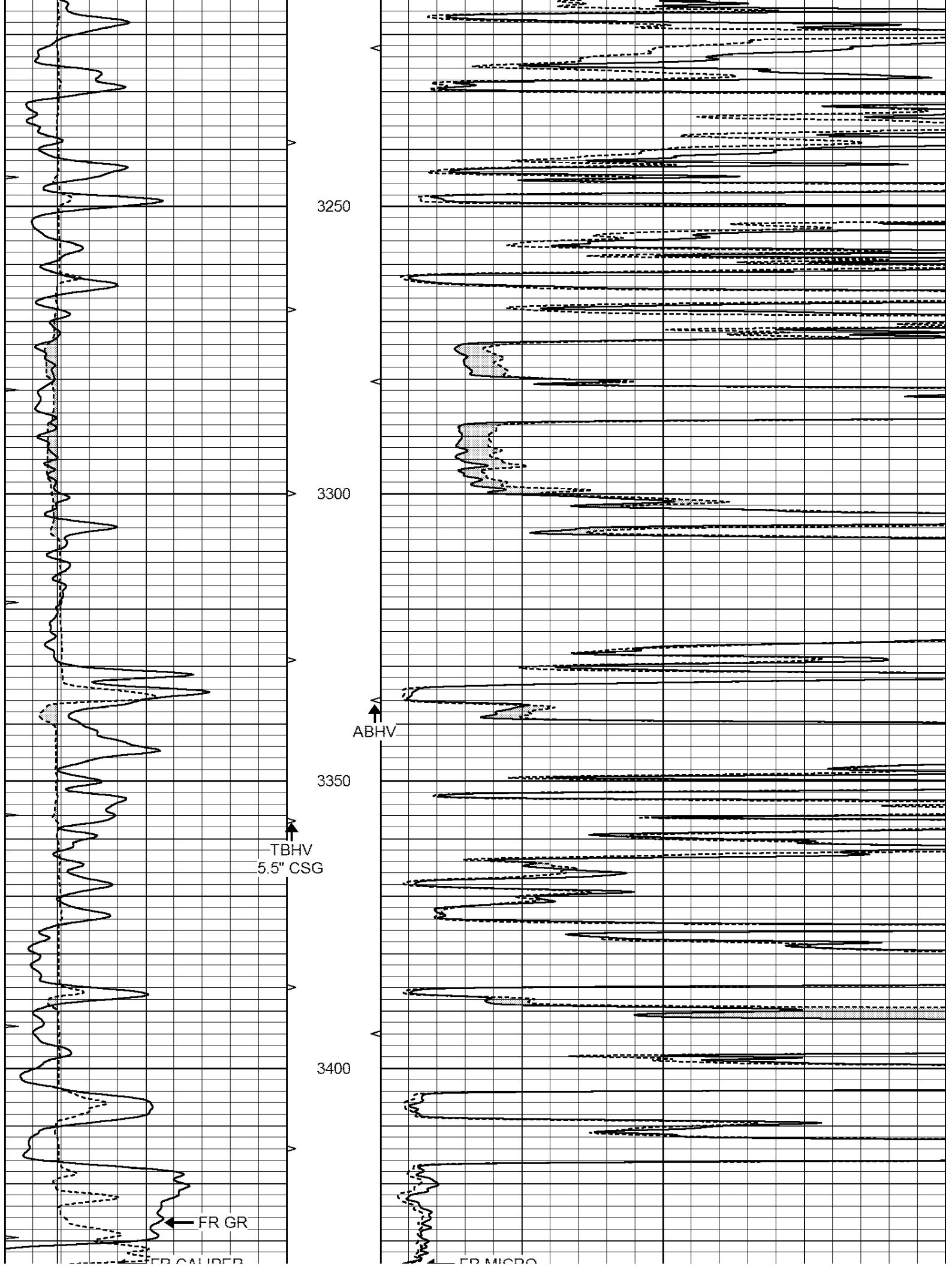
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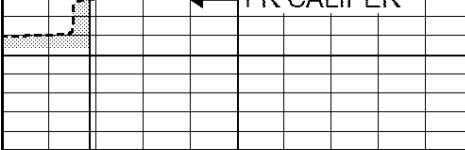
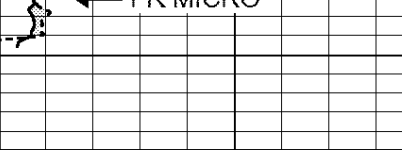
3100

3150

3200





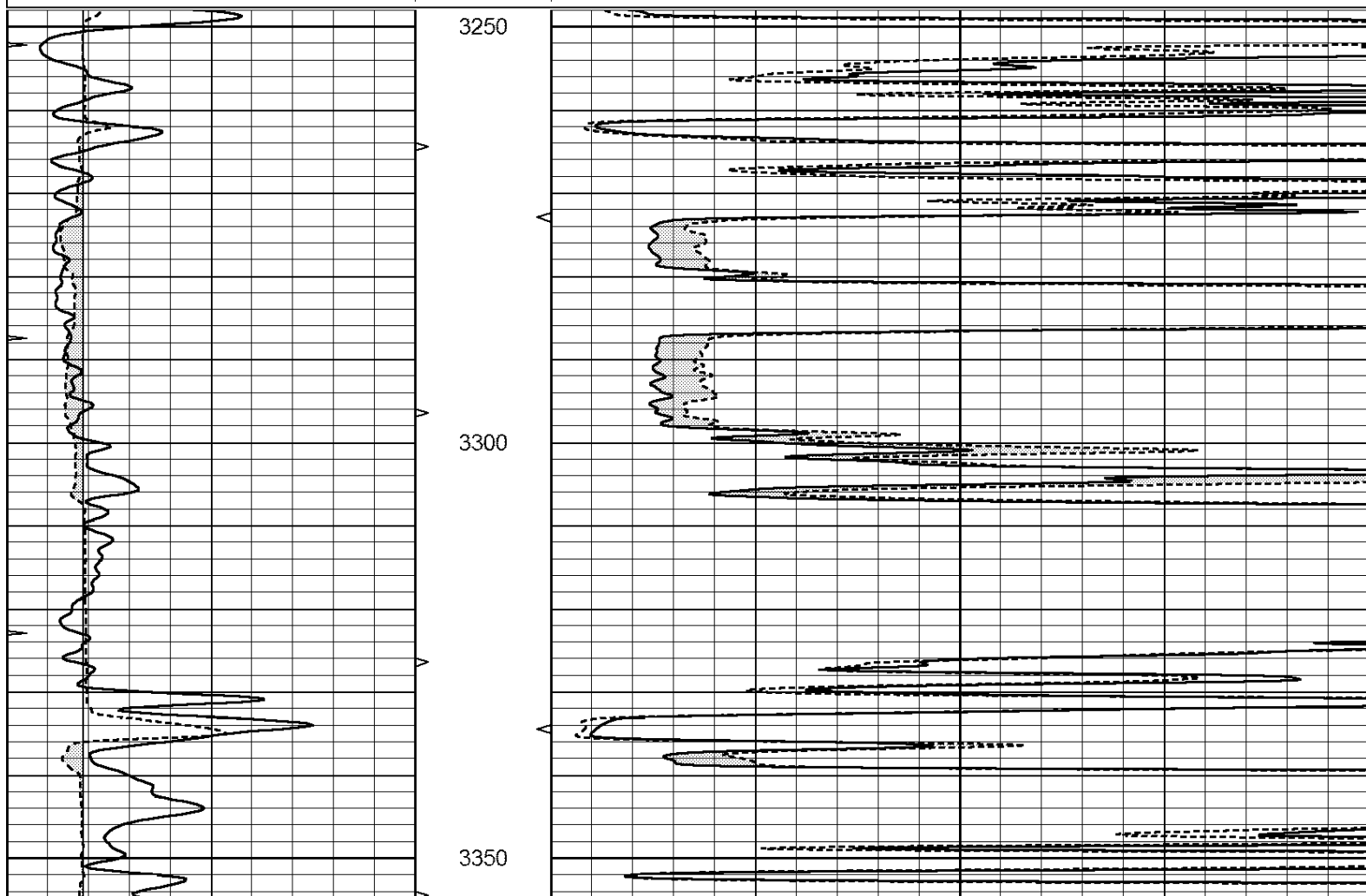
						
3450						
LTD 3457						
0	GAMMA RAY (GAPI)	150	ABHV	0	MEL1.5 (Ohm-m)	40
6	CALIPER (in)	16	10 (ft3)	0	MEL2.0 (Ohm-m)	40
0	MINMK	20	TBHV			
			0 (ft3)	10		

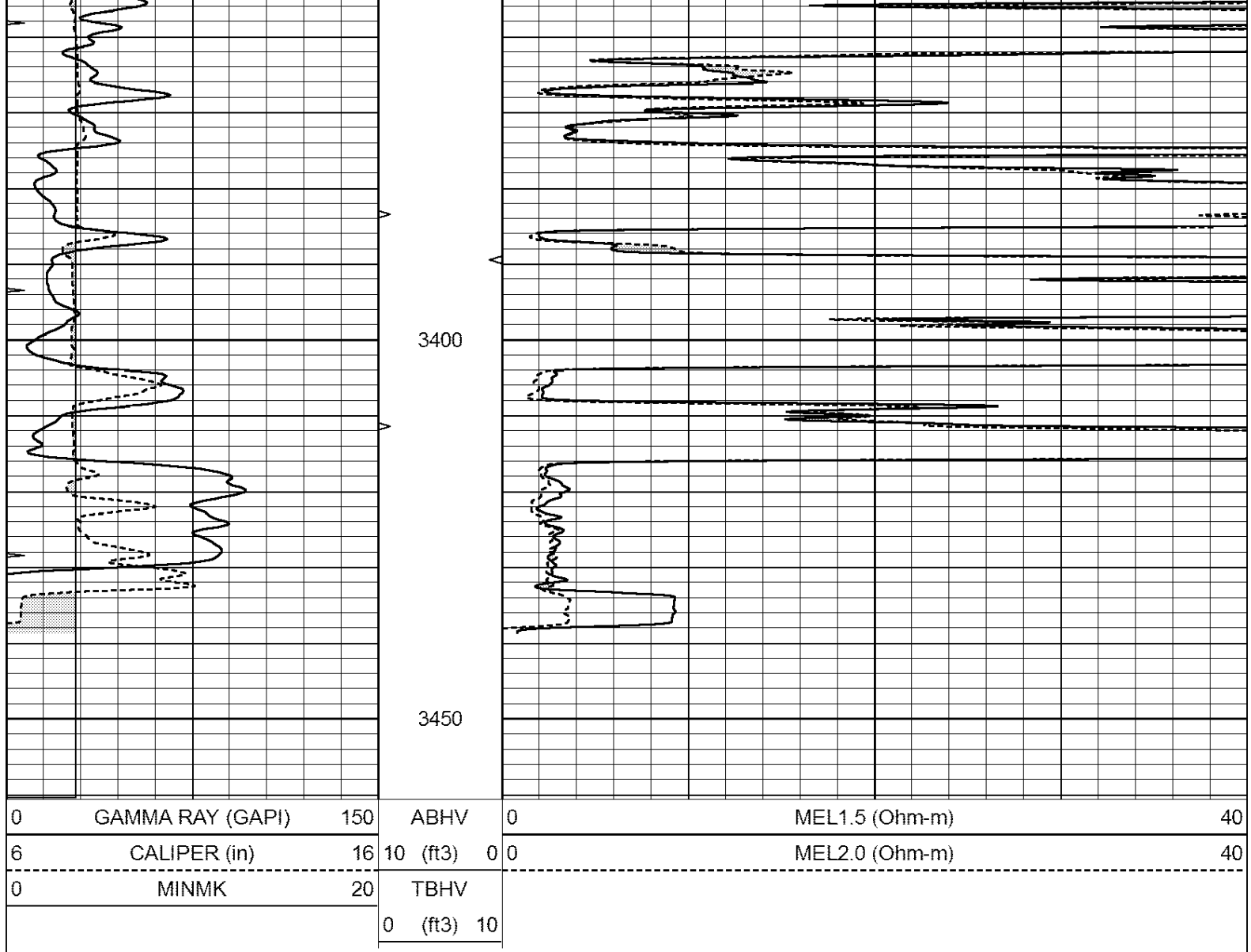


REPEAT SECTION

Database File: 26403ddn.db
Dataset Pathname: pass9.4
Presentation Format: micro
Dataset Creation: Tue Nov 11 02:15:25 2014
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	MEL2.0 (Ohm-m)	40
0	MINMK	20	TBHV			
			0 (ft3)	10		





Calibration Report			
Database File:	26403ddn.db		
Dataset Pathname:	pass10.2		
Dataset Creation:	Tue Nov 11 02:25:56 2014 by Calc Open-Cased 090629		
MICRO Calibration Report			
Serial Number:	MICRO3		
Tool Model:	PROBE		
Performed:	Thu Nov 17 03:06:31 2011		
Caliper Calibration:	Gain=3.916	Offset=-9.771	
	Low Cal	High Cal	
References	8.000	14.000	
Readings	4.257	5.789	
1.5" Calibration:	Gain=130.000	Offset=0.800	
	Low Cal	High Cal	
References	0.000	20.000	
Readings	0.004	0.228	
2" Calibration:	Gain=200.553	Offset=-1.220	
	Low Cal	High Cal	
References	0.000	20.000	
Readings	0.005	0.175	

Readings 0.003 0.115

Gamma Ray Calibration Report

Serial Number: GR6
Tool Model: OPEN
Performed: Sun Aug 17 15:23:09 2014

Calibrator Value: 150.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 276.0 cps

Sensitivity: 0.7000 GAPI/cps