



**COMPLETION
& PRODUCTION
SERVICES CO.**

**MICRO
LOG**

Company		CHARTER ENERGY, INC.	
Well		HAMMOND #1	
Field		PAWNEE ROCK	
County		PAWNEE	
State		KANSAS	
Company		CHARTER ENERGY, INC.	
Well		HAMMOND #1	
Field		PAWNEE ROCK	
County		PAWNEE	
State		KANSAS	
Location:		API # : 15-145-21771-0000	
Permanent Datum		GROUND LEVEL Elevation	
Log Measured From		KELLY BUSHING 6' A.G.L.	
Drilling Measured From		KELLY BUSHING	
SEC 13 TWP 20S RGE 16W		Elevation	
		CDL/CNL DIL	
		K.B. 2052 D.F. 2050 G.L. 2046	
Date	7/2/14		
Run Number	TWO		
Depth Driller	3850		
Depth Logger	3850		
Bottom Logged Interval	3848		
Top Log Interval	3200		
Casing Driller	8 5/8" @ 1080		
Casing Logger	1050		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5800 PPM	
Density / Viscosity	9.1/5.1		
pH / Fluid Loss	10.5/12.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.70 @ 95F		
Rmt @ Meas. Temp	.52 @ 95F		
Rmc @ Meas. Temp	.84 @ 95F		
Source of Rmt / Rmc	MEASUREMENT		
Rm @ BHT	.57 @ 115F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	2:00 P.M.		
Maximum Recorded Temperature	115F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	KURT TALBOTT		

<<< Fold Here >>>

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:
PAWNEE ROCK, KS. - 3 NORTH - 3 WEST UNTIL THE BLKTOP ENDS
1/2 MORE WEST - SOUTH INTO



MAIN SECTION

Database File:

24644ddn.db

Dataset Pathname:

pass6.1

Presentation Format:

_micro

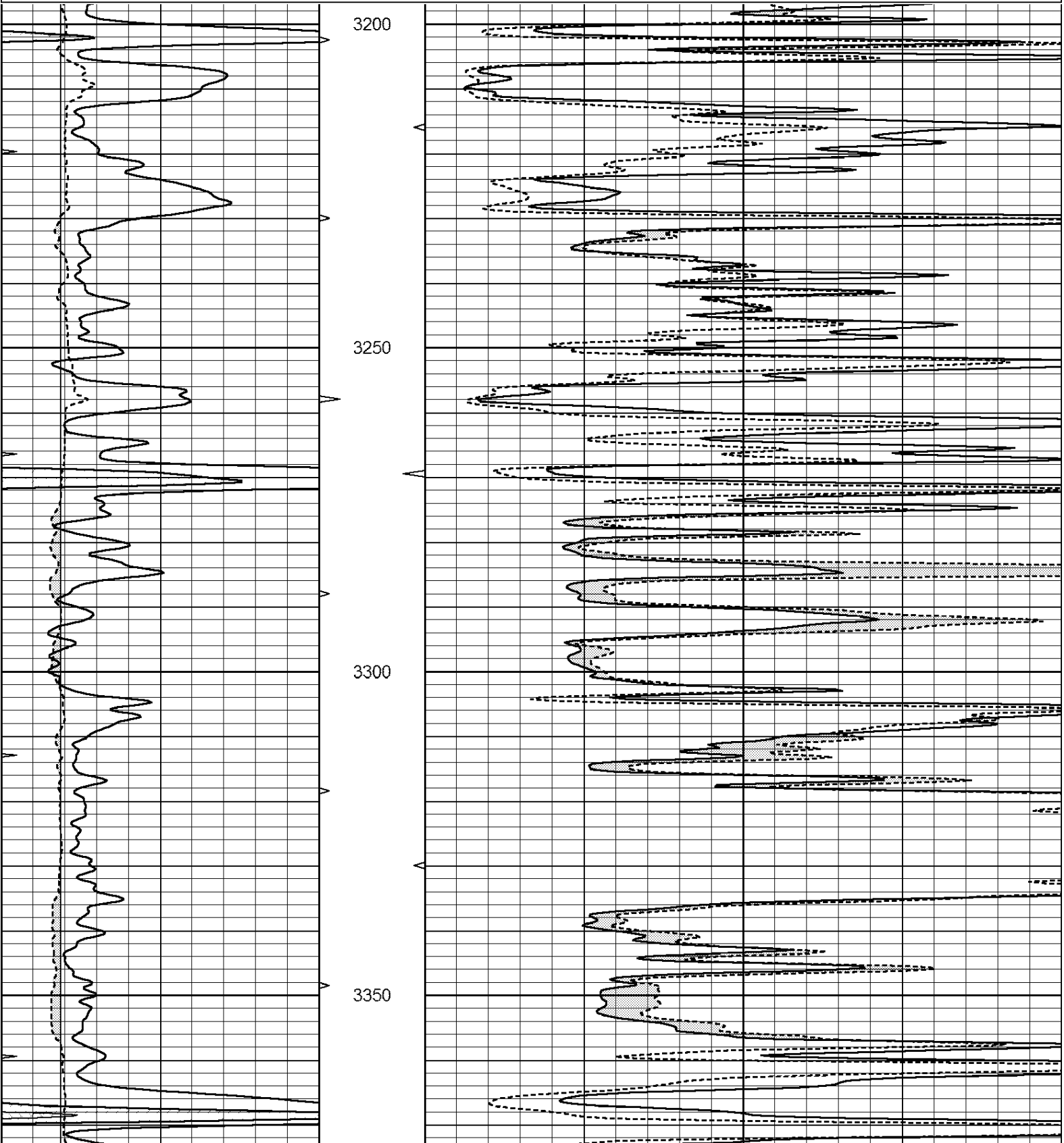
Dataset Creation:

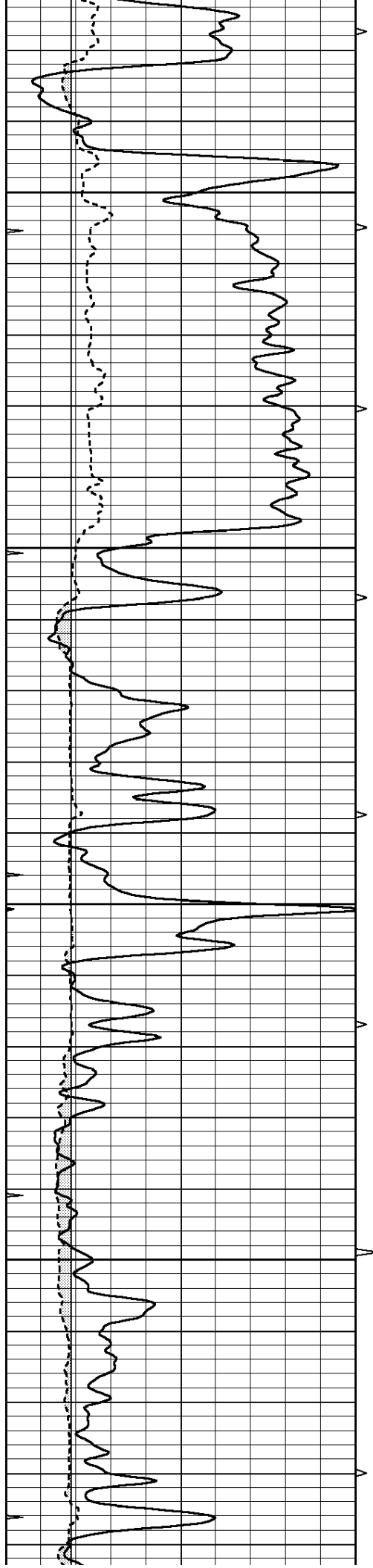
Wed Jul 02 16:13:32 2014 by Calc Open-Cased 090629

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		



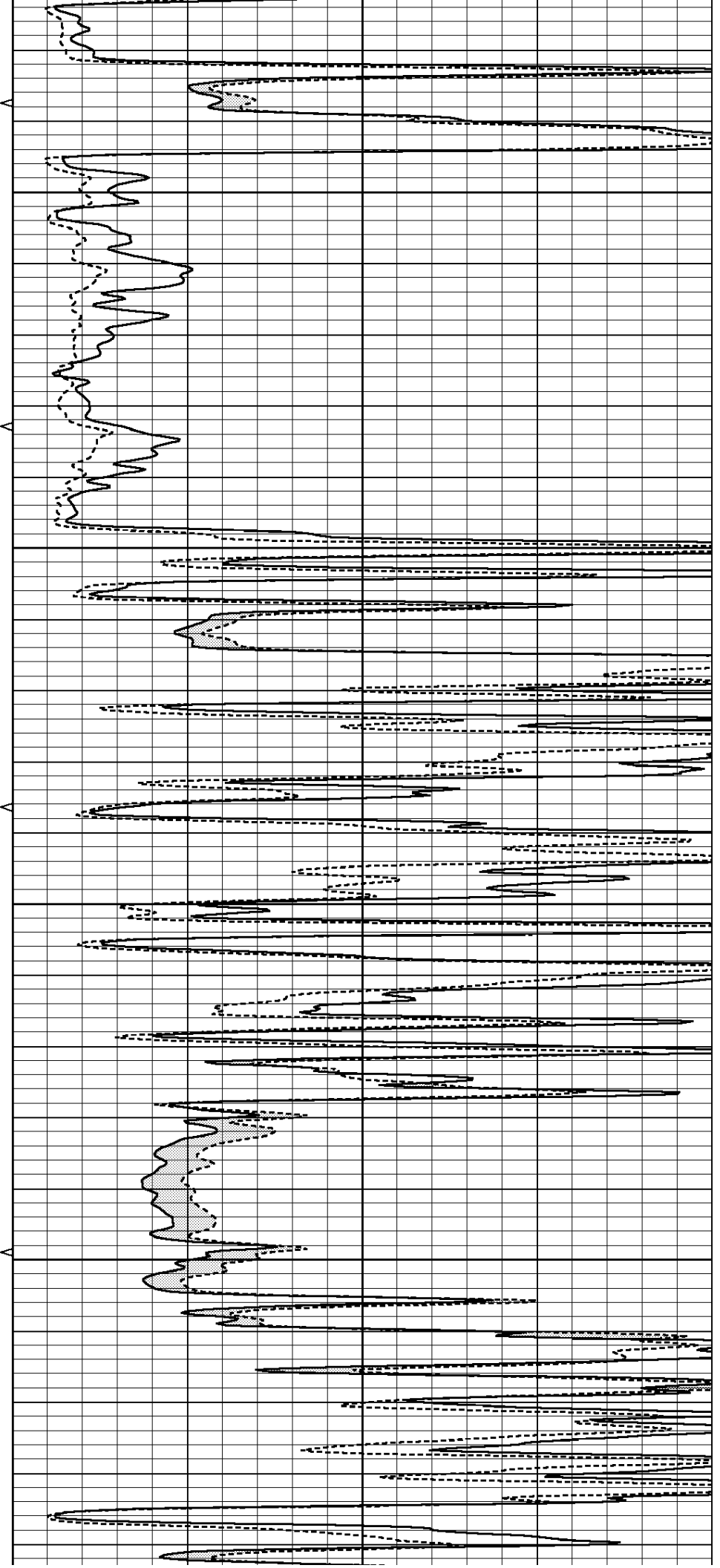


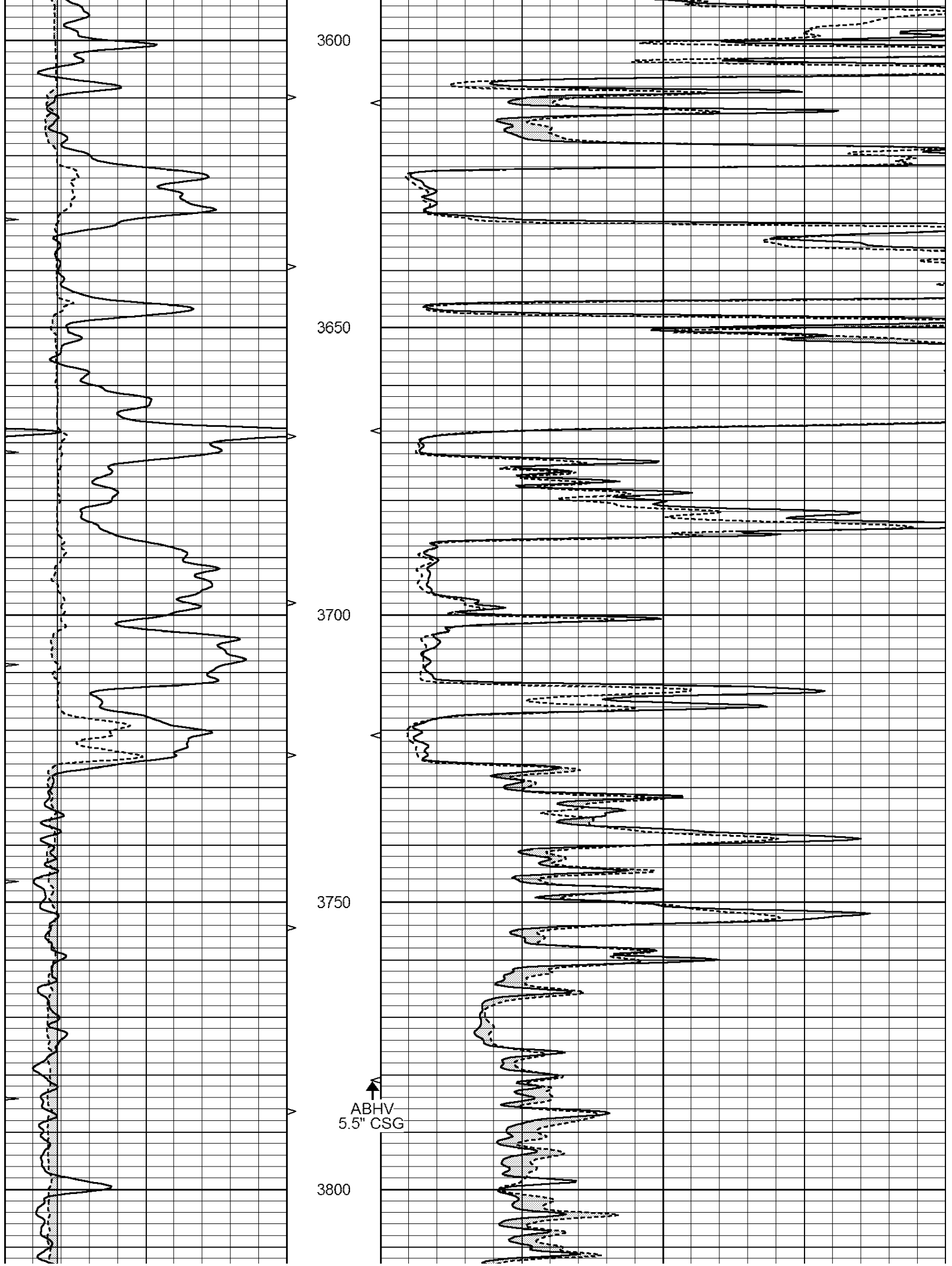
3400

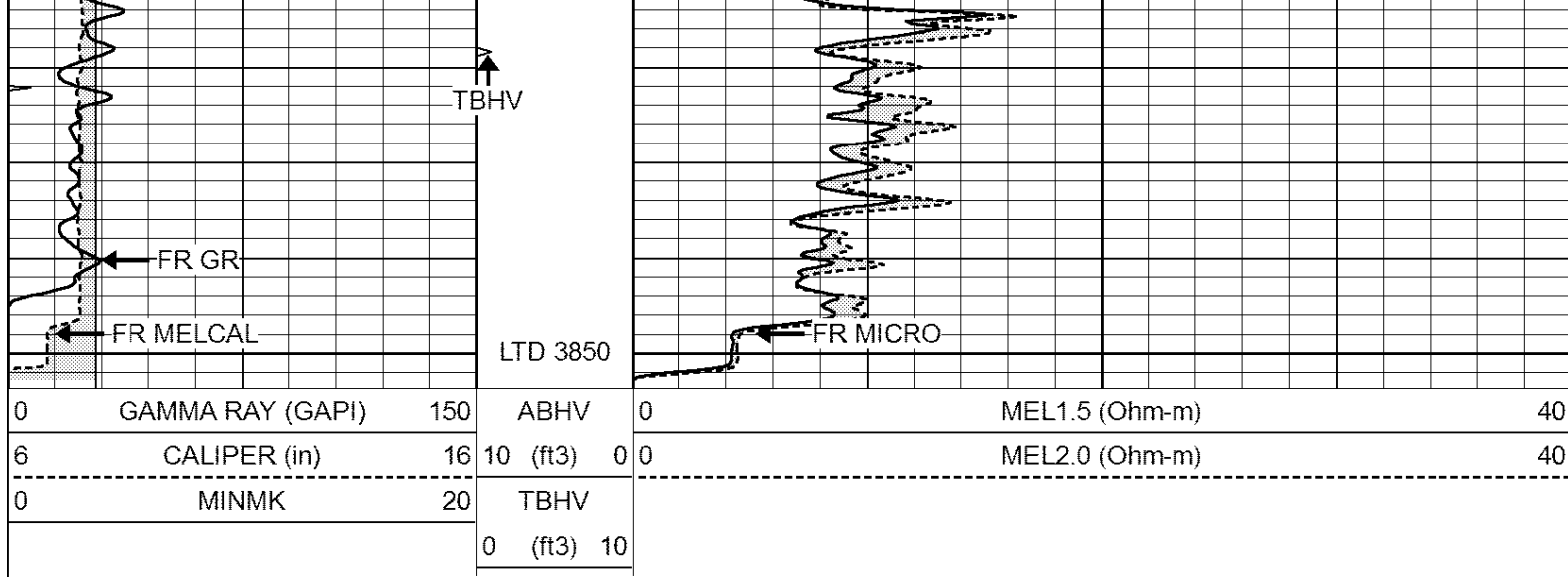
3450

3500

3550



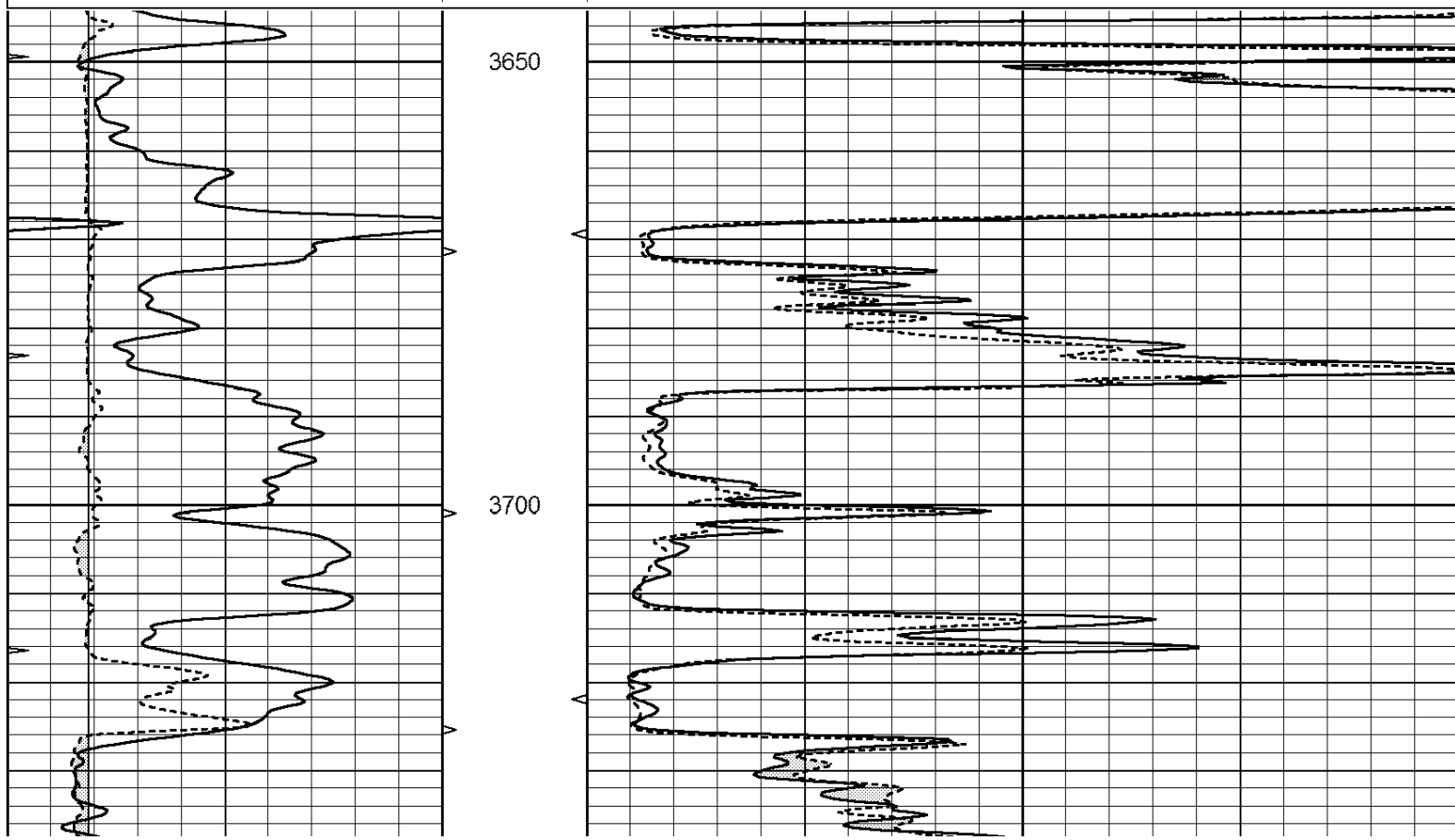


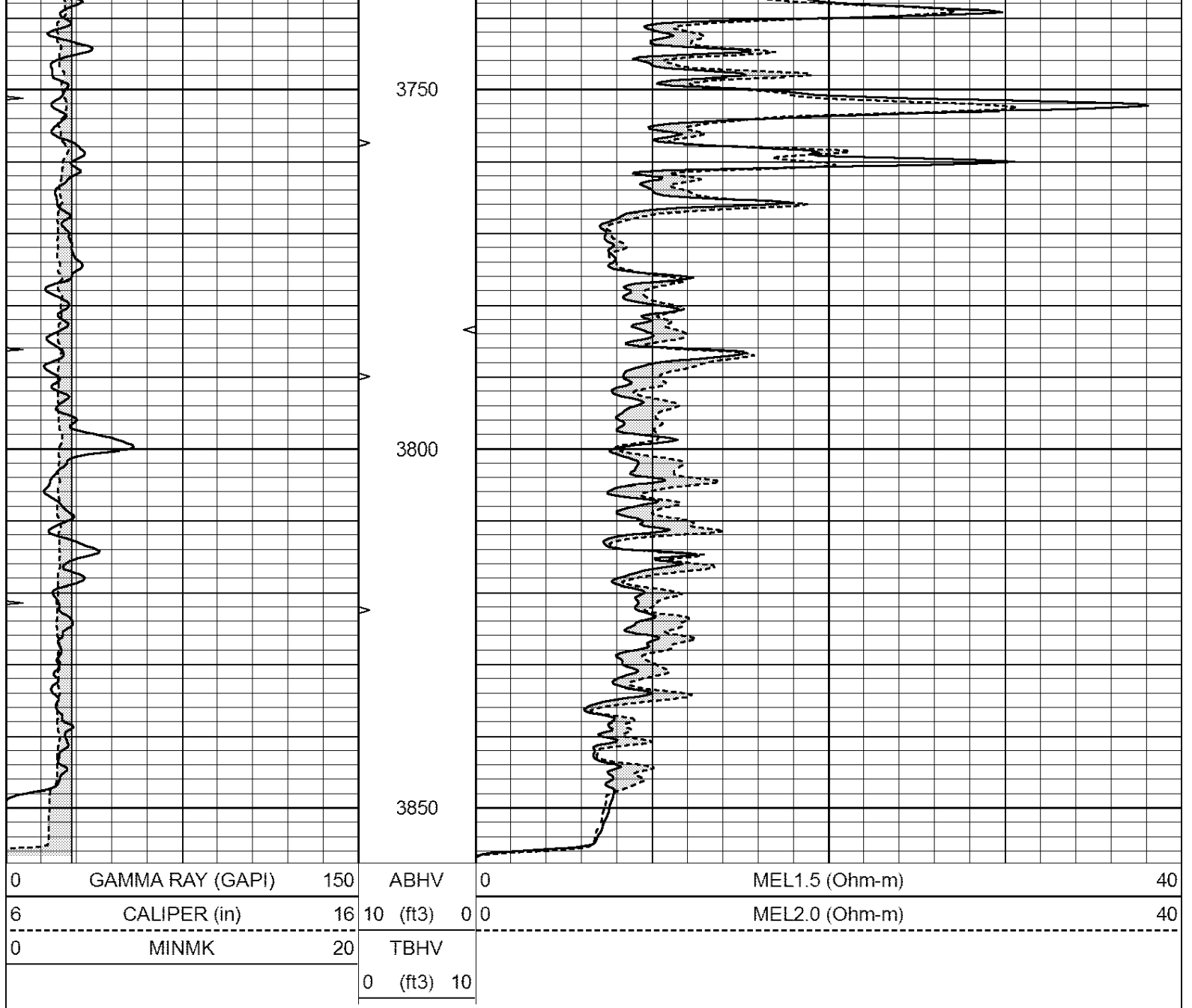


REPEAT SECTION

Database File: 24644ddn.db
 Dataset Pathname: pass5.1
 Presentation Format: _micro
 Dataset Creation: Wed Jul 02 16:09:46 2014 by Calc Open-Cased 090629
 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:	24644ddn.db		
Dataset Pathname:	pass5.1		
Dataset Creation:	Wed Jul 02 16:09:46 2014 by Calc Open-Cased 090629		
MICRO Calibration Report			
Serial Number:	MICRO6		
Tool Model:	PROBE		
Performed:	Tue Jun 24 17:04:04 2014		
Caliper Calibration:	Gain=5.542	Offset=-0.120	
	Low Cal	High Cal	
References	8.000	14.000	
Readings	1.431	2.513	
1.5" Calibration:	Gain=38.075	Offset=0.000	
	Low Cal	High Cal	
References	0.000	20.000	
Readings	0.004	1.196	

2" Calibration:	Gain=46.000	Offset=-0.600
References	Low Cal	High Cal
Readings	0.000	20.000
	0.006	0.913
Gamma Ray Calibration Report		
Serial Number:	GR6	
Tool Model:	OPEN	
Performed:	Sat May 31 01:22:06 2014	
Calibrator Value:	150.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	276.0	cps
Sensitivity:	0.7535	GAPI/cps