



Weatherford

**COMPENSATED NEUTRON
ACOUSTIC POROSITY OVERLAY
MICRORESISTIVITY LOG**

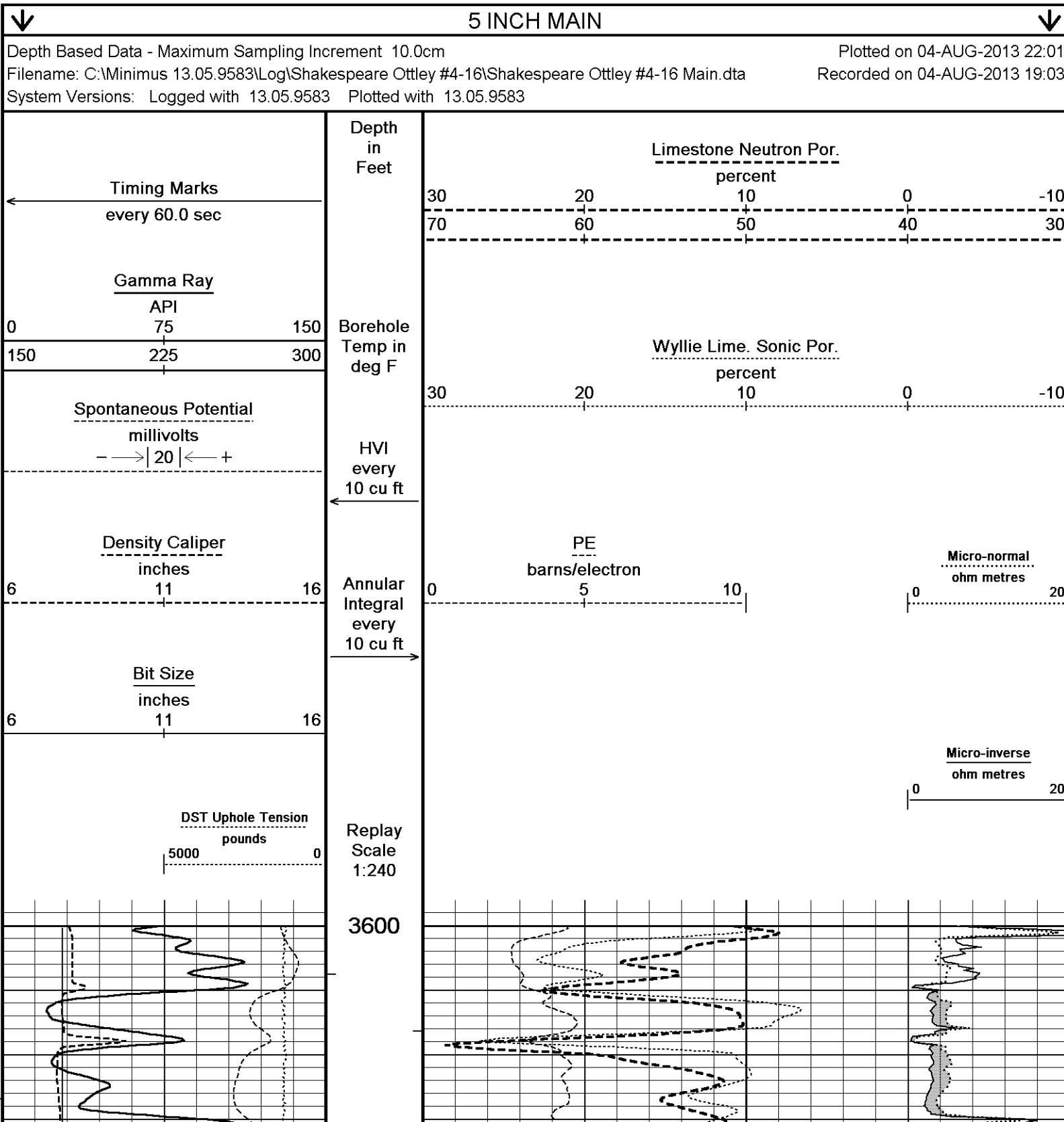
COMPANY				SHAKESPEARE OIL CO., INC.			
WELL				OTTELEY #4-16			
FIELD				WILDCAT			
PROVINCE/COUNTY				LOGAN			
COUNTRY/STATE				U.S.A. / KANSAS			
LOCATION				1599' FNL & 1852' FWL			
SEC	TWP	RGE	Other Services				
16	14S	32W					
API Number		15-109-21198					
Permit Number							
Permanent Datum G.L., Elevation 2808 feet							
Log Measured From KB							
Drilling Measured From K.B. @10 FEET							
Date	04-AUG-2013				Elevations:		
Run Number	ONE				KB	feet	
Service Order	3539955				DF	2818.00	
Depth Driller	4530.00					2816.00	
Depth Logger	4528.00					2808.00	
First Reading	4496.00						
Last Reading	3600.00						
Casing Driller	222.00						
Casing Logger	221.00						
Bit Size	7.875						
Hole Fluid Type	CHEMICAL						
Density / Viscosity	9.10 lb/USg		55.00 CP				
PH / Fluid Loss	10.00		10.00 ml/30Min				
Sample Source	FLOWLINE						
Rm @ Measured Temp	0.51 @ 98.0		ohm-m				
Rmf @ Measured Temp	0.41 @ 98.0		ohm-m				
Rmc @ Measured Temp	0.61 @ 98.0		ohm-m				
Source Rmf / Rmc	CALC		CALC				
Rm @ BHT	0.44 @115.0		ohm-m				
Time Since Circulation	3 HOURS						
Max Recorded Temp	115.00		deg F				
Equipment / Base	13096		LIB				
Recorded By	ROB HOFFMAN						
Witnessed By	TIM PRIEST						
JOB #	LB13-218						

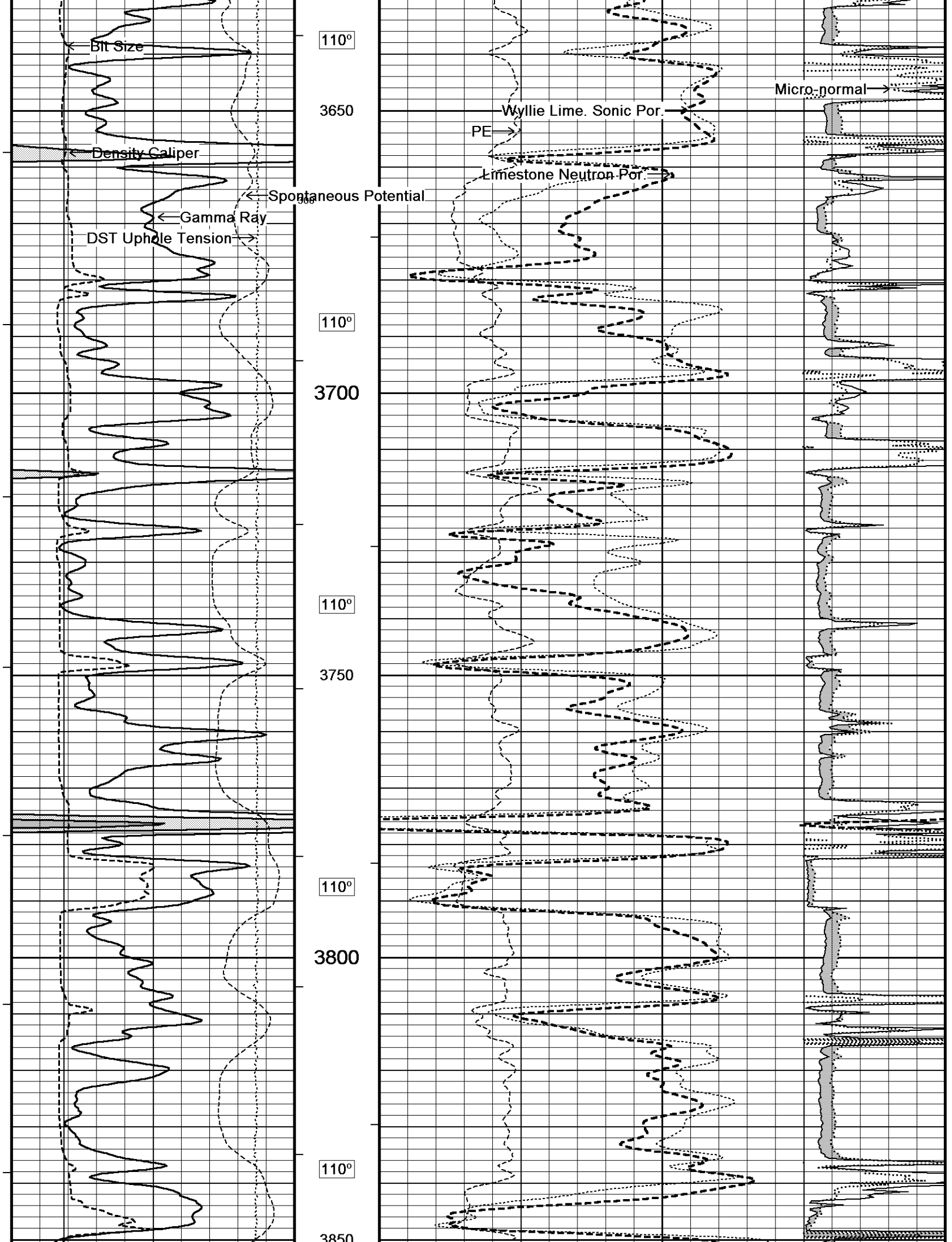
BOREHOLE RECORD					Last Edited: 04-AUG-2013 15:52
Bit Size inches		Depth From feet		Depth To feet	
7.875		222.00		4530.00	
CASING RECORD					
Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft	
SURFACE	8.625	0.00	222.00	24.00	

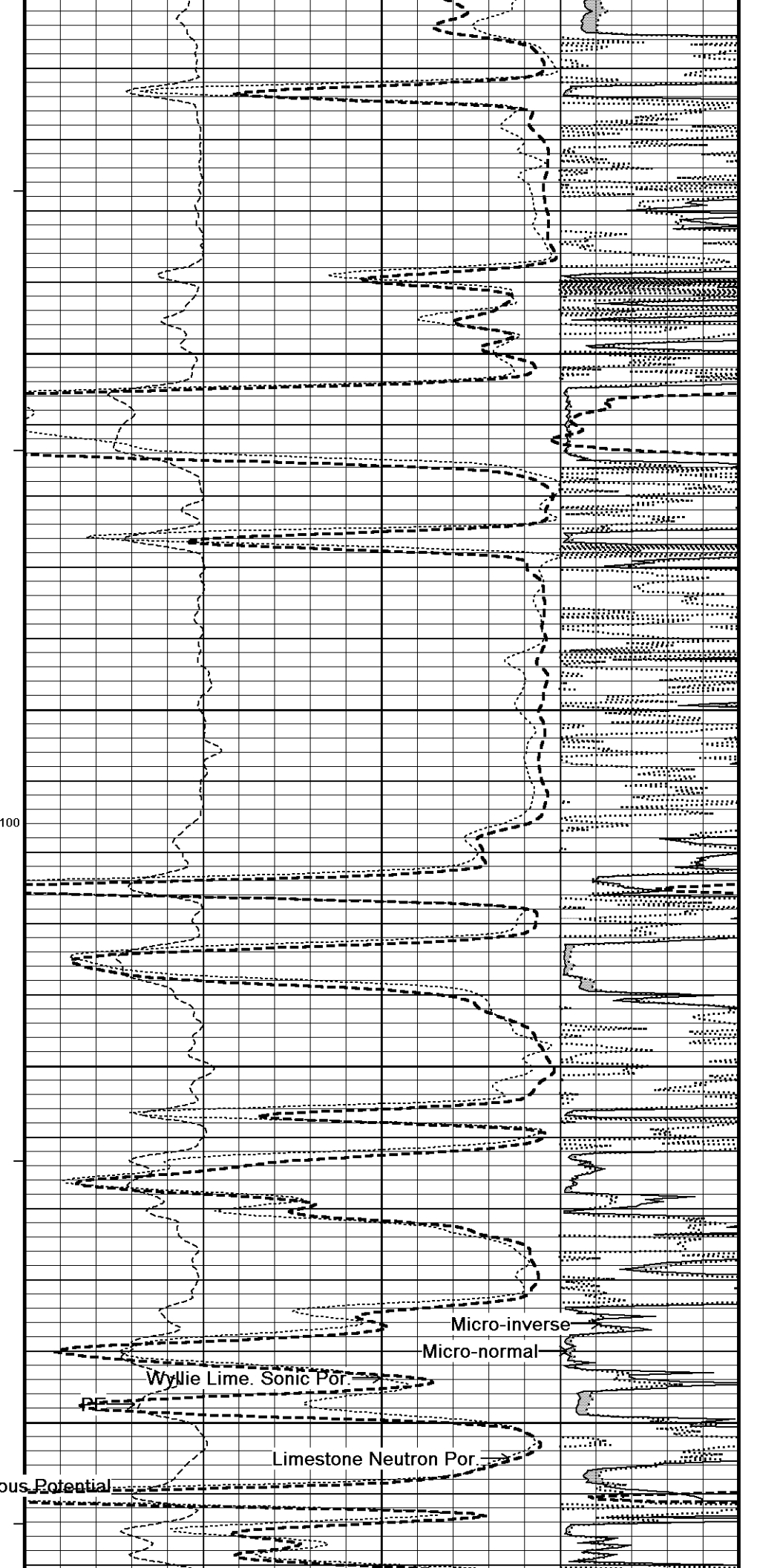
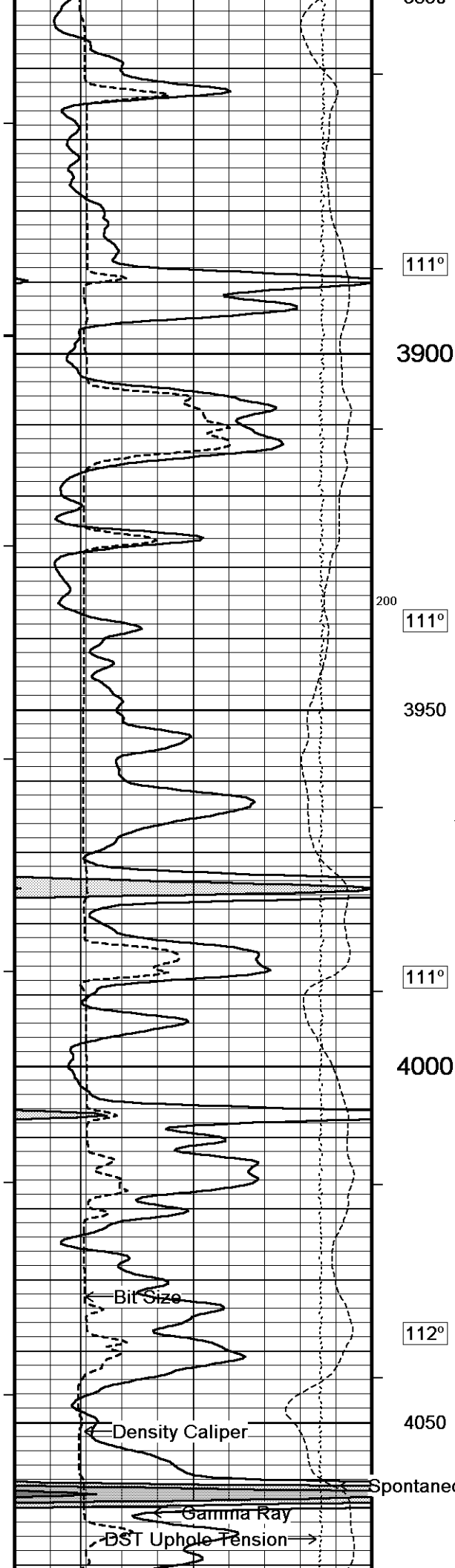
REMARKS
- SOFTWARE ISSUE: WLS 13.05.9583.
- MCG, MML, MDN, MPD, MFE, MSS, MAI RUN IN COMBINATION. - HARDWARE: DUAL BOWSPRING USED ON MDN. 0.5 INCH STANDOFF USED ON MFE. TWO 0.5 INCH STANDOFFS USED ON MSS. 0.5 INCH STANDOFF USED ON MAI.
- 2.71 G/CC LIMESTONE DENSITY MATRIX USED TO CALCULATE POROSITY.
- BOREHOLE RUGOSITY, TIGHT PULLS, AND WASHOUTS WILL AFFECT DATA QUALITY.
- ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.
- TOTAL HOLE VOLUME FROM TD TO SURFACE CASING: 1952 CU. FT.
- ANNULAR HOLE VOLUME WITH 5.5 INCH CASING FROM TD TO SURFACE CASING: 175 CU. FT.

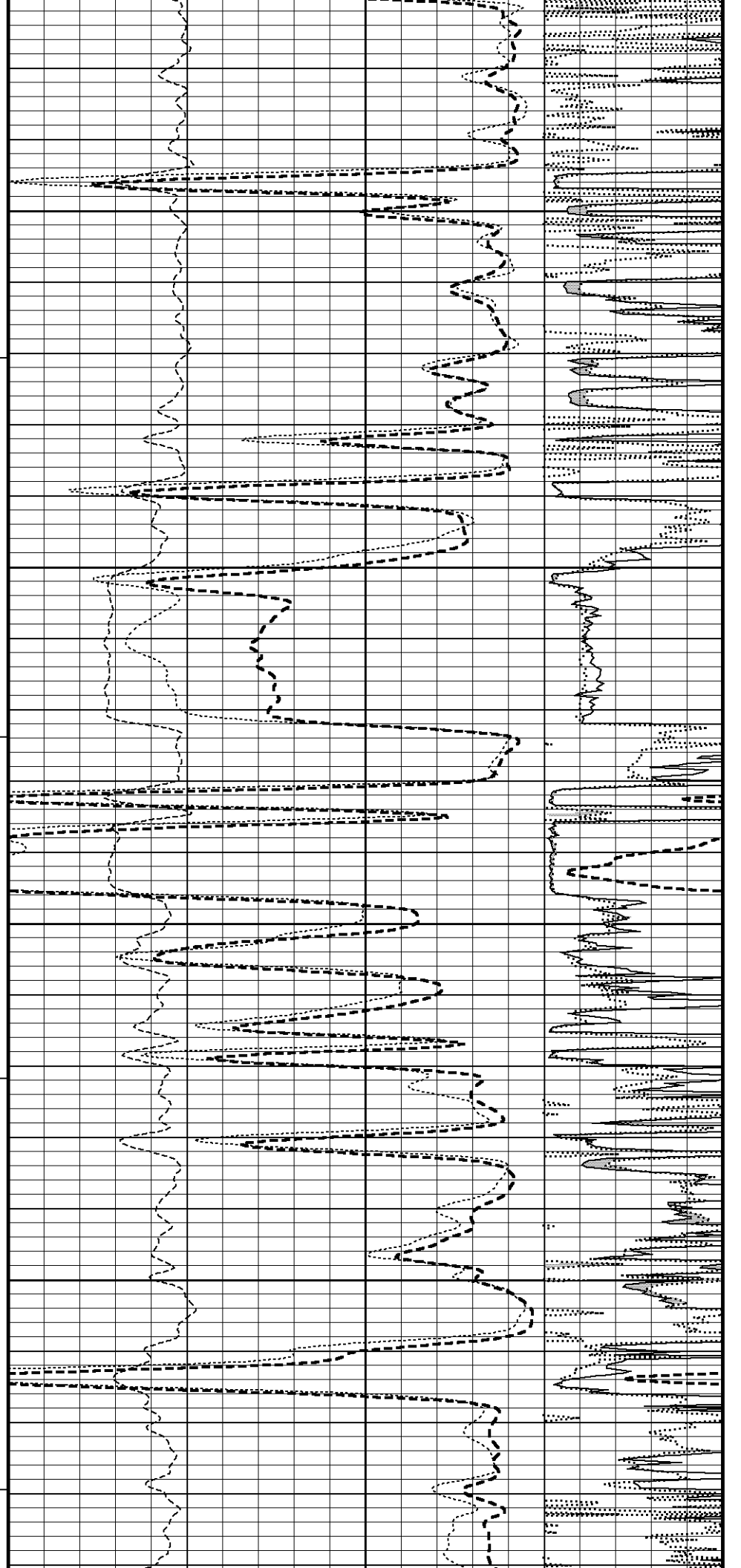
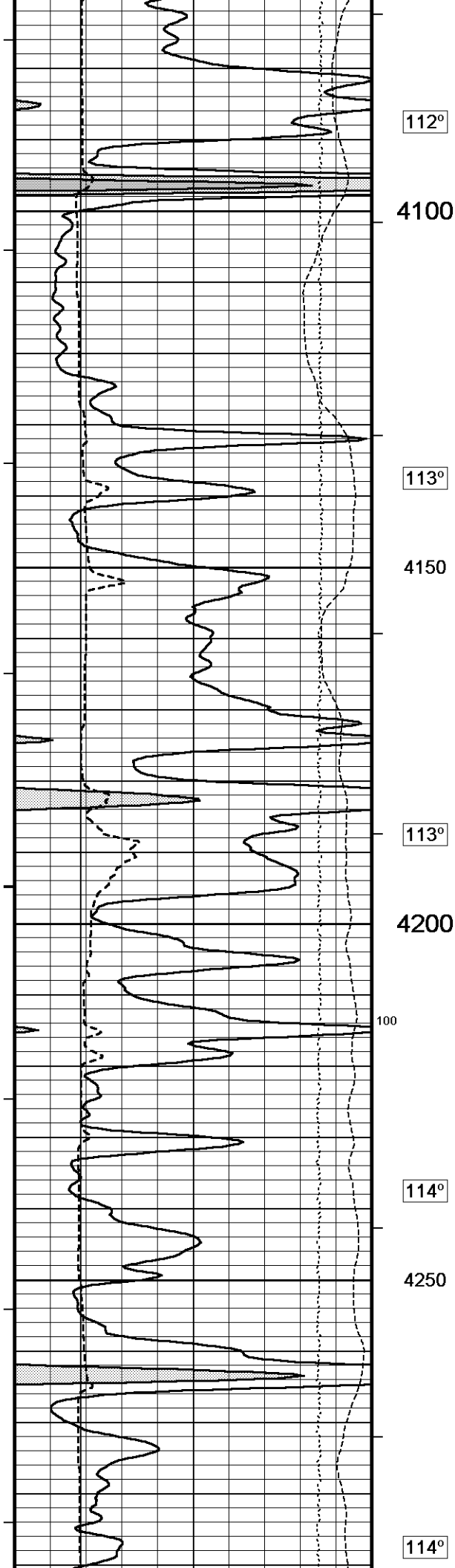
- SERVICE ORDER # 3539955
- RIG: HD DRILLING #2.
- ENGINEER: ROB HOFFMAN
- OPERATOR(S): NICK ADAME

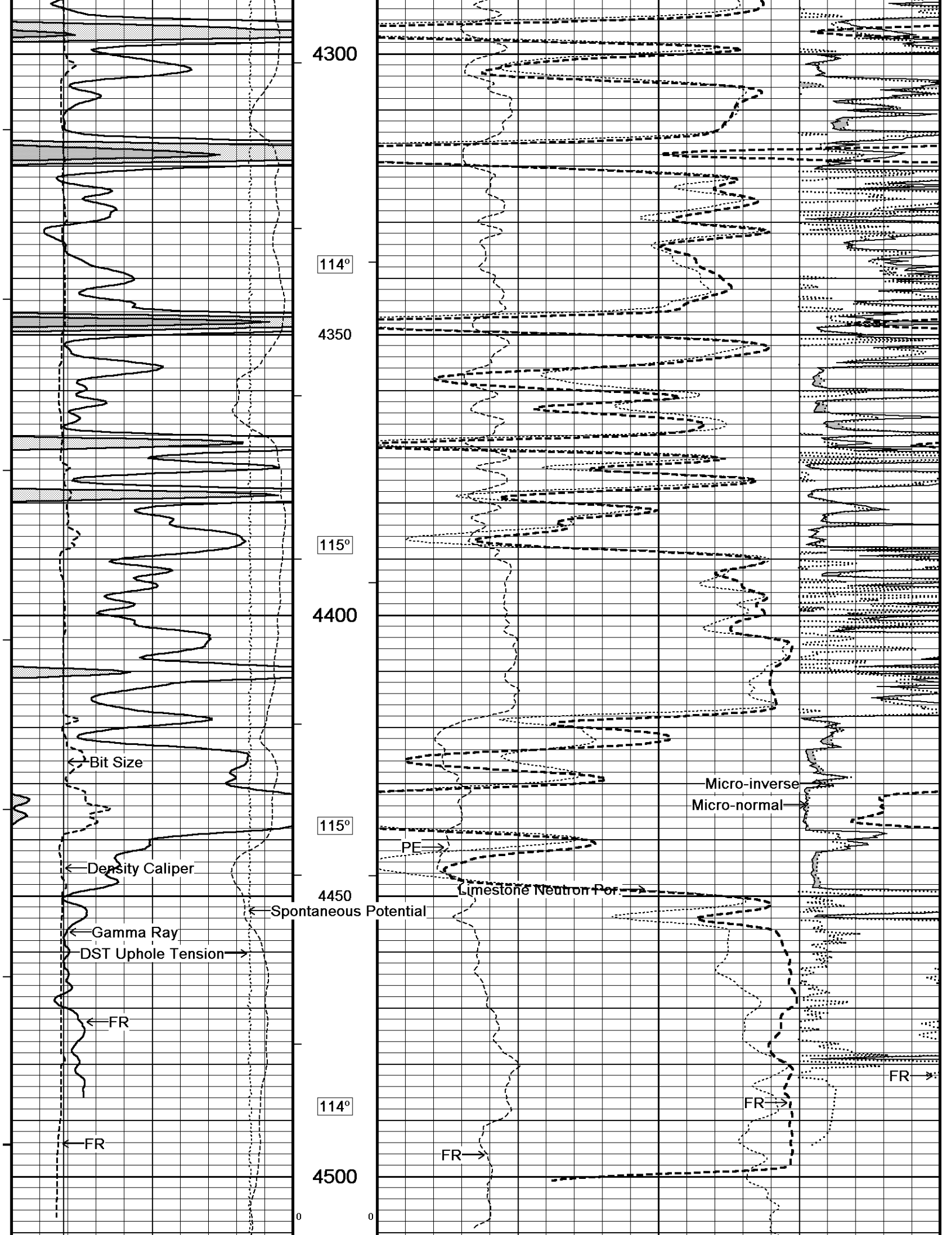
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

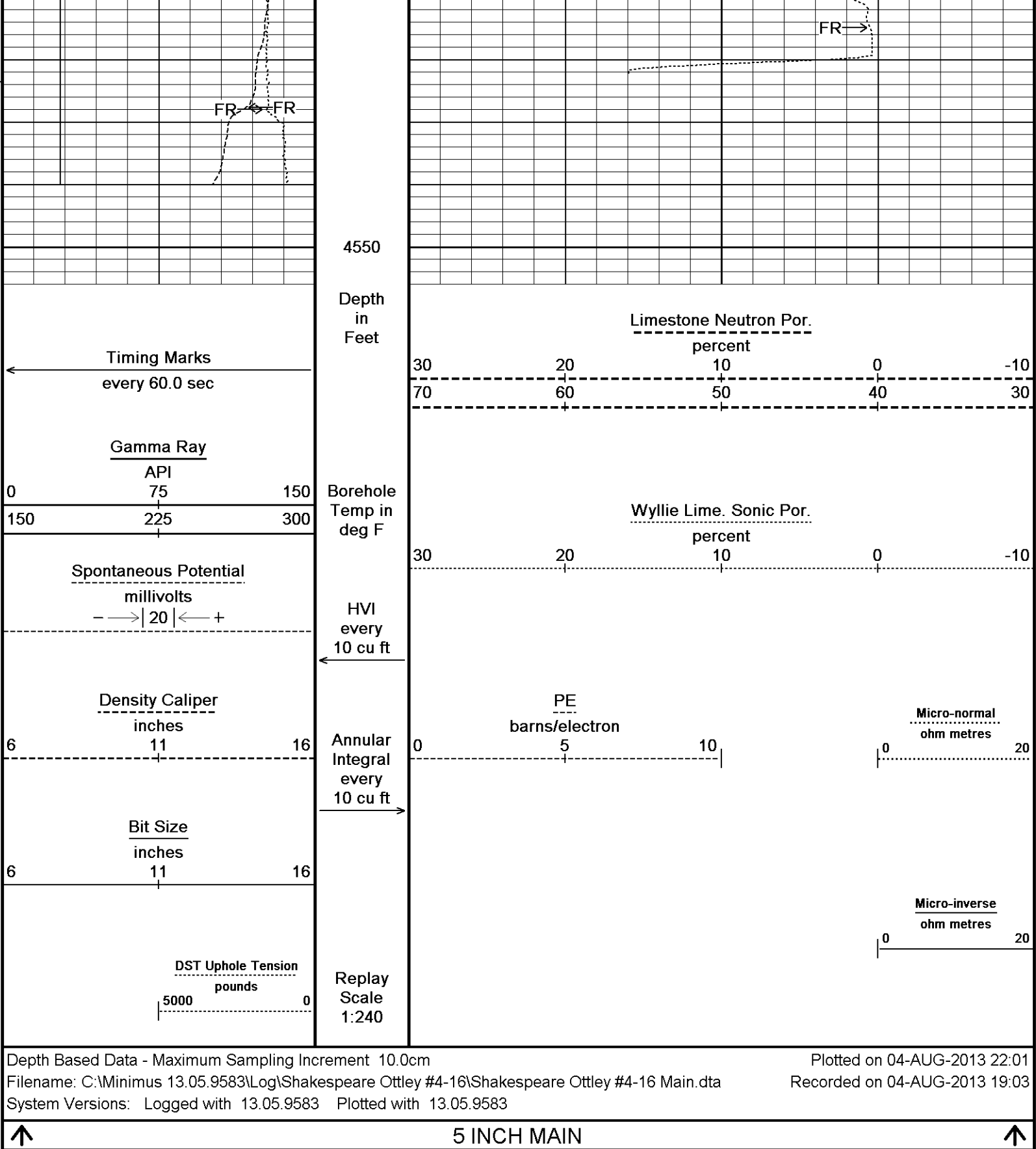












DOWNHOLE EQUIPMENT

C:\Minimus 13.05.9583\Log\Shakespeare Ottley #4-16\Shakespeare Ottley #4-16 Main.dta

3/8" Triple Cone Cable Head (MCB C A)
MCB-C.A 5 LG: 1.58 ft WT: 15.4 lb OD: 2.24 in

Compact Comms Gamma
MCG-B 39 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in



55.39 ft

52.48 ft

GRGC - Gamma Ray

CGXT - MCG External Temperature

Compact Micro-log
MML-A.3 LG: 7.97 ft WT: 81.6 lb OD: 2.24 in

Compact Neutron
MDN-A.B 66 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

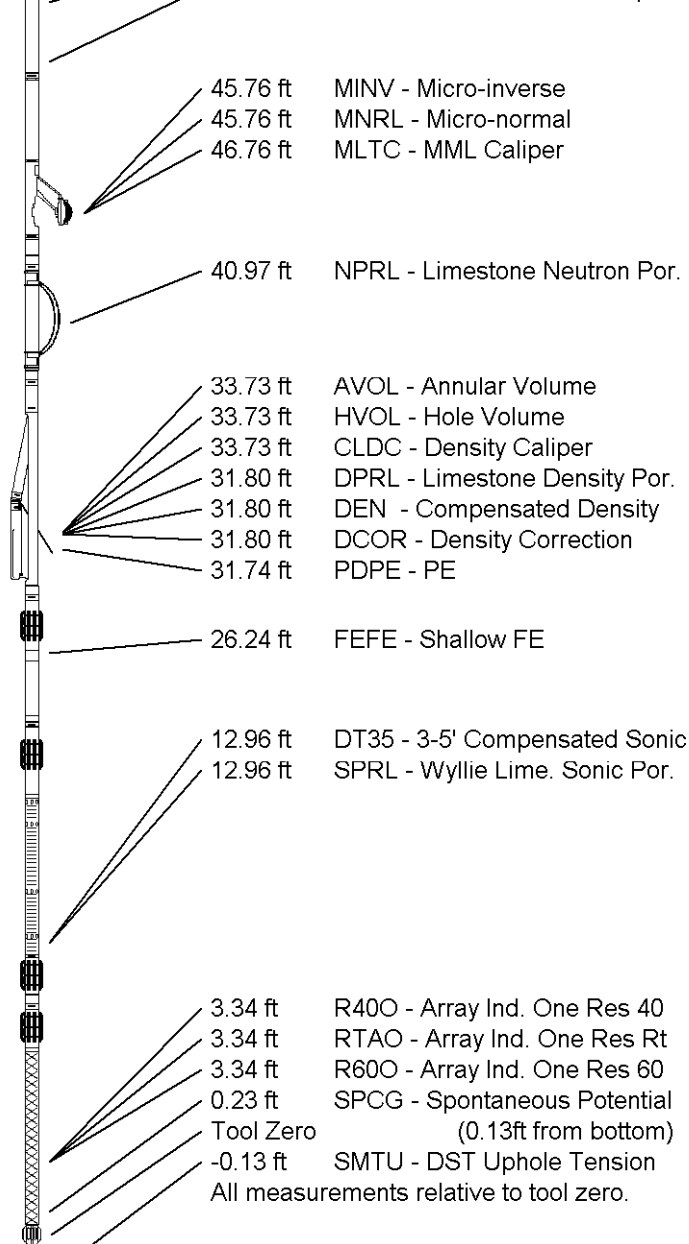
Compact Density/Caliper
MPD-B 64 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

Compact Focussed Electric
MFE-B.J 353 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

Compact Sonic
MSS-A.A 55 LG: 12.52 ft WT: 72.8 lb OD: 2.24 in

Compact Induction
MAI-A.A 167 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 62.25 ft Weight: 471.8 lb



COMPANY	SHAKESPEARE OIL CO., INC.
WELL	OTTLEY #4-16
FIELD	WILDCAT
PROVINCE/COUNTY	LOGAN
COUNTRY/STATE	U.S.A. / KANSAS

Elevation Kelly Bushing	2818.00	feet	First Reading		feet
Elevation Drill Floor	2816.00	feet	Depth Driller	4530.00	feet
Elevation Ground Level	2808.00	feet	Depth Logger	4528.00	feet



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ACOUSTIC POROSITY OVERLAY
MICRORESISTIVITY LOG

