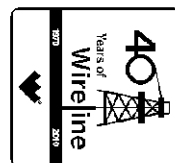




Weatherford

Composite Log



COMPANY			O' BRIEN ENERGY		
WELL			VAIL #1-30		
FIELD			SINGLEY		
PROVINCE/COUNTY			MEADE		
COUNTRY/STATE			U.S.A./KANSAS		
LOCATION			760' FSL & 1320' FWL		
SEC	TWP	RGE	Other Services		
30	33S	29W			
API Number			15-119-21277		
Permit Number					
Permanent Datum G.L., Elevation 2667 feet					
Log Measured From K.B. @ 12 FEET above Permanent Datum					
Drilling Measured From K.B.					
Date	07-DEC-2010				
Run Number	ONE				
Depth Driller	6351.00	feet			
Depth Logger	6354.00	feet			
First Reading	6332.00	feet			
Last Reading	3100.00	feet			
Casing Driller	1534.00	feet			
Casing Logger	1534.00	feet			
Bit Size	7.880	inches			
Hole Fluid Type	CHEMICAL				
Density / Viscosity	9.20 lb/USg	51.00 CP			
PH / Fluid Loss	9.50	9.20 ml/30Min			
Sample Source	FLOWLINE				
Rm @ Measured Temp	0.85 @ 75.0	ohm-m			
Rmf @ Measured Temp	0.68 @ 75.0	ohm-m			
Rmc @ Measured Temp	1.02 @ 75.0	ohm-m			
Source Rmf / Rmc	CALC	CALC			
Rm @ BHT	0.52 @122.0	ohm-m			
Time Since Circulation	4 HOURS				
Max Recorded Temp	122.00	deg F			
Equipment Name	COMPACT				
Equipment / Base	13096	LIB			
Recorded By	SHAWN NUTT				
Witnessed By	ROGER PEARSON		PETER DEBENHAM		
S.O.#/JOB#	3524634		LB10-312		

40

Years of
Wireline

20102010

BOREHOLE RECORD

Last Edited: 07-DEC-2010 19:46

Bit Size inches	Depth From feet	Depth To feet
7.880	1534.00	6354.00

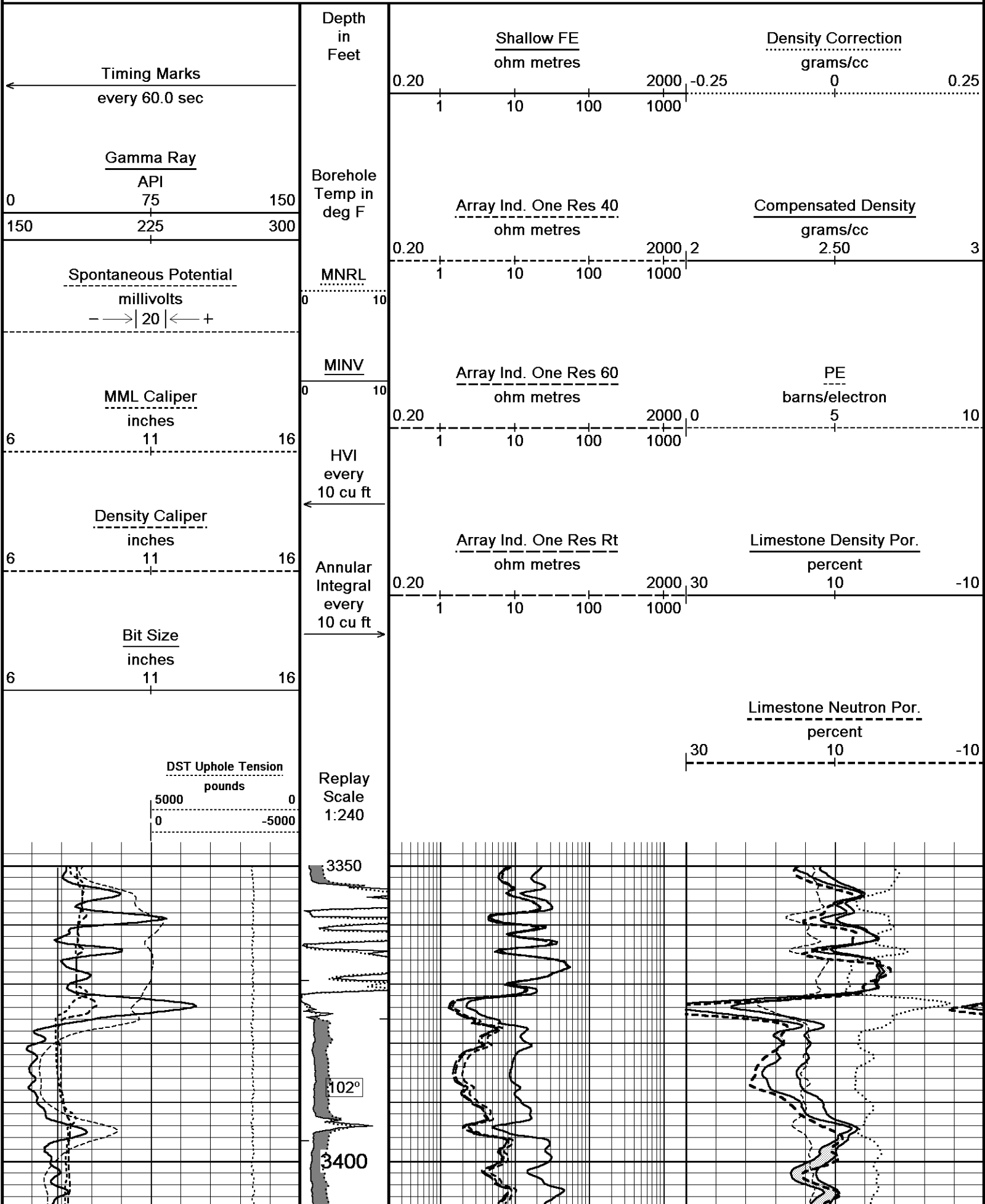
CASING RECORD

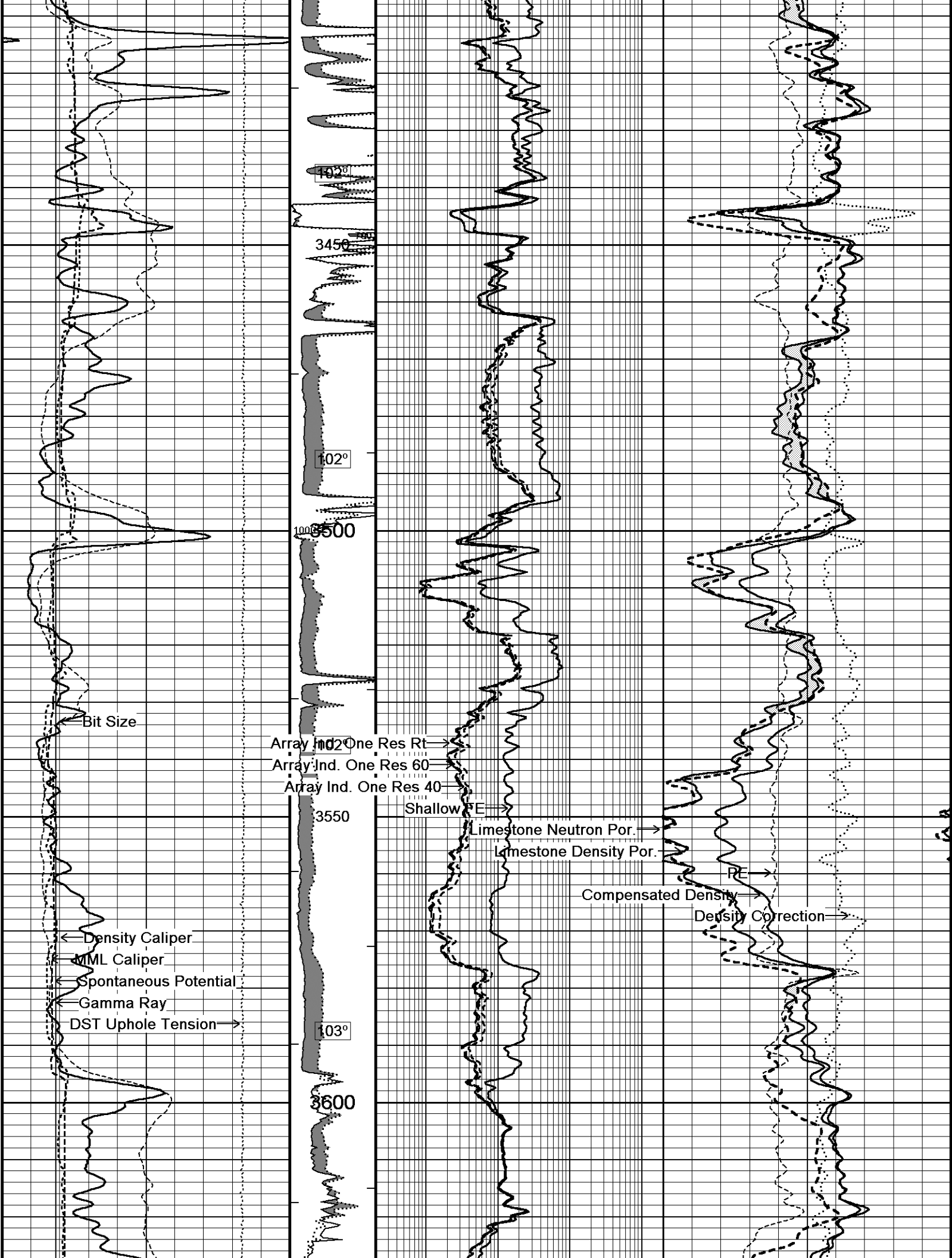
Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	8.625	0.00	1534.00	24.00

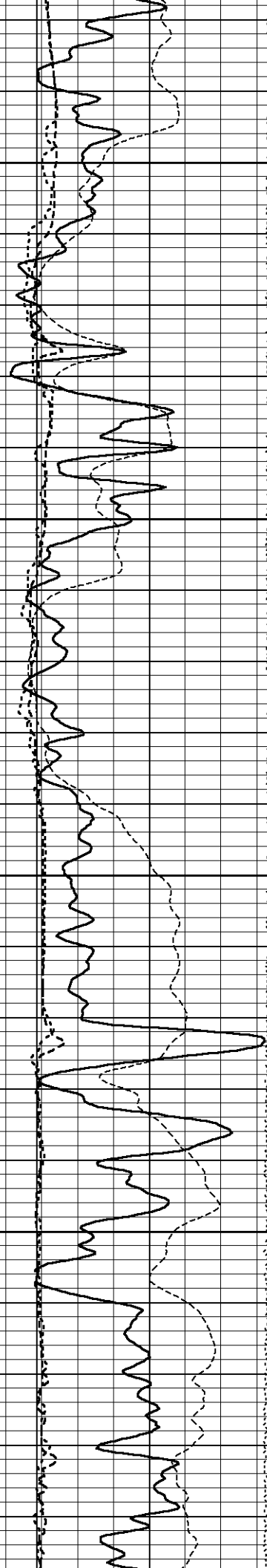
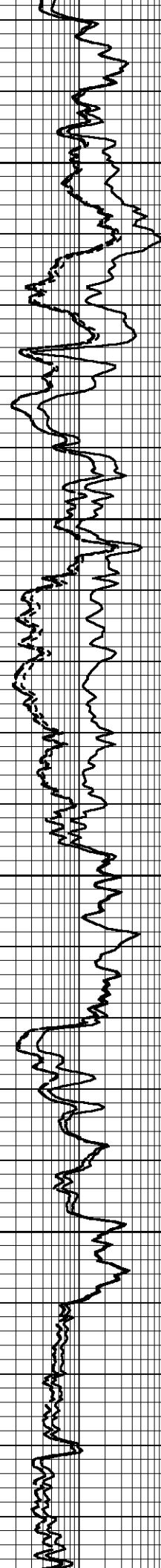
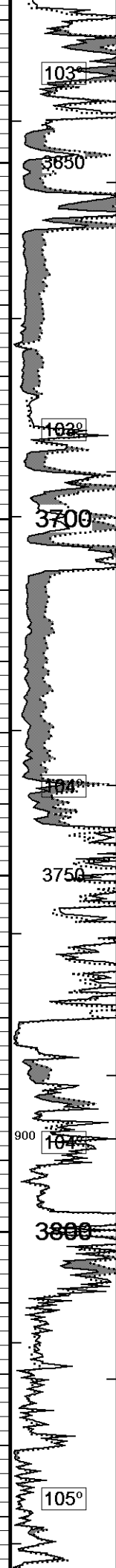
REMARKS

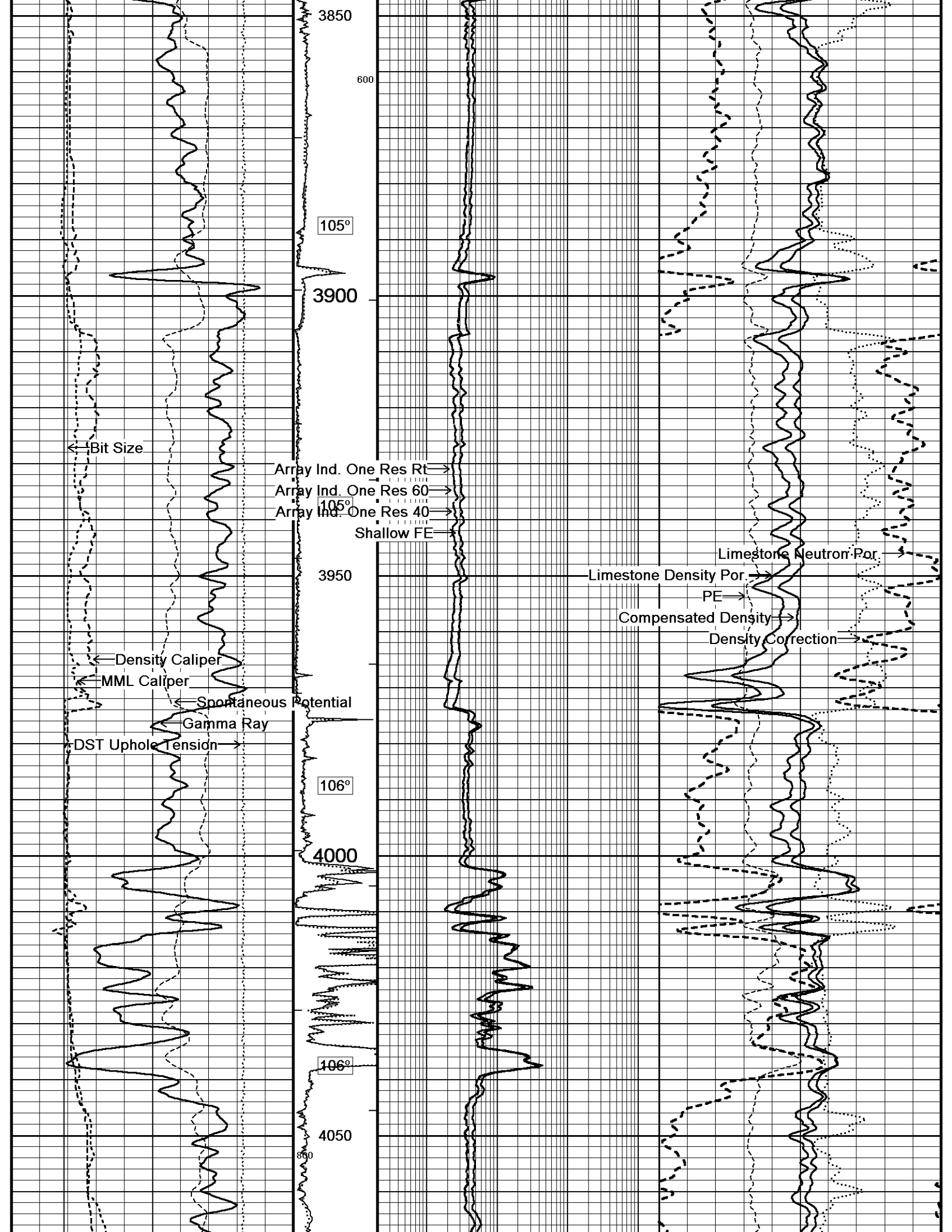
Tools Run: MAI, MPD, MCG, MDN, MML, MFE, SKJ
Hardware: MPD: 8 inch profile plate used. MAI and MFE: 0.5 Inch standoffs used. MDN: Dual Eccentraliser used.
2.71 G/CC Limestone density matrix used to calculate porosity.
Borhole rugosity, tight pulls, and washouts will affect data quality.
All intervals logged and scaled per customer's request.
Annular volume with 4.5 inch production casing= cu. ft.
Service order #3524630
Rig: Duke #6
Engineer: Shawn Nutt
Operator(s): K. Rinehart

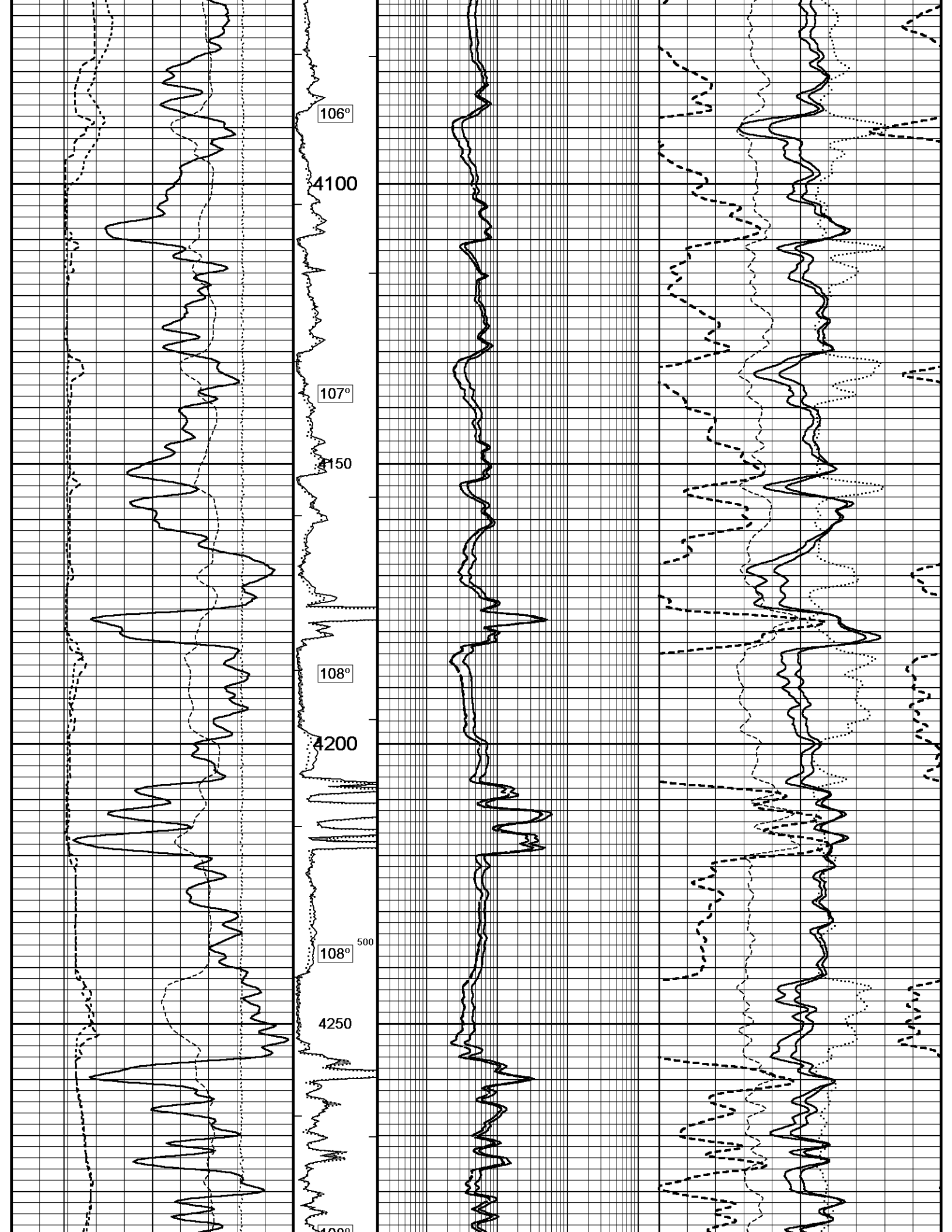
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

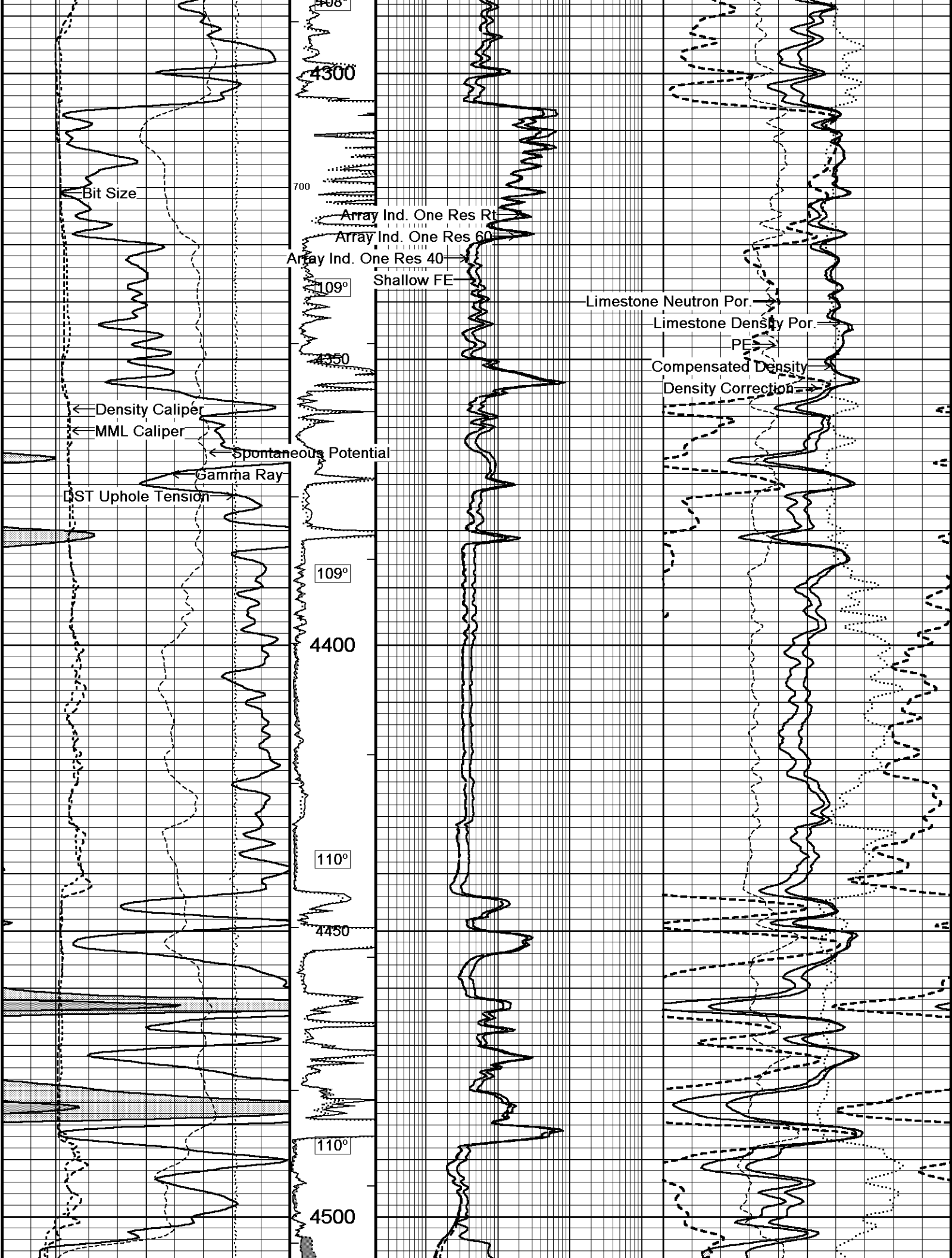


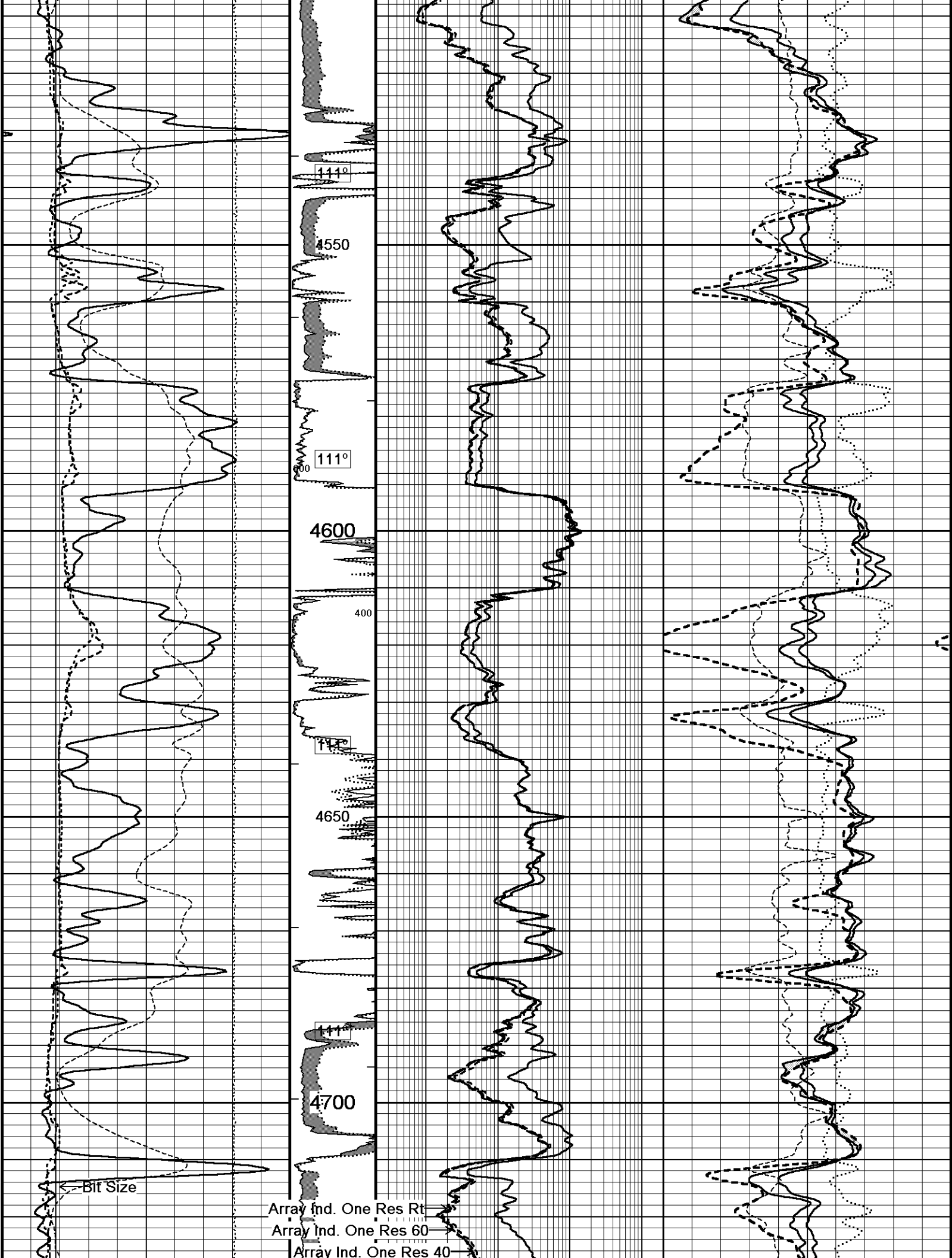


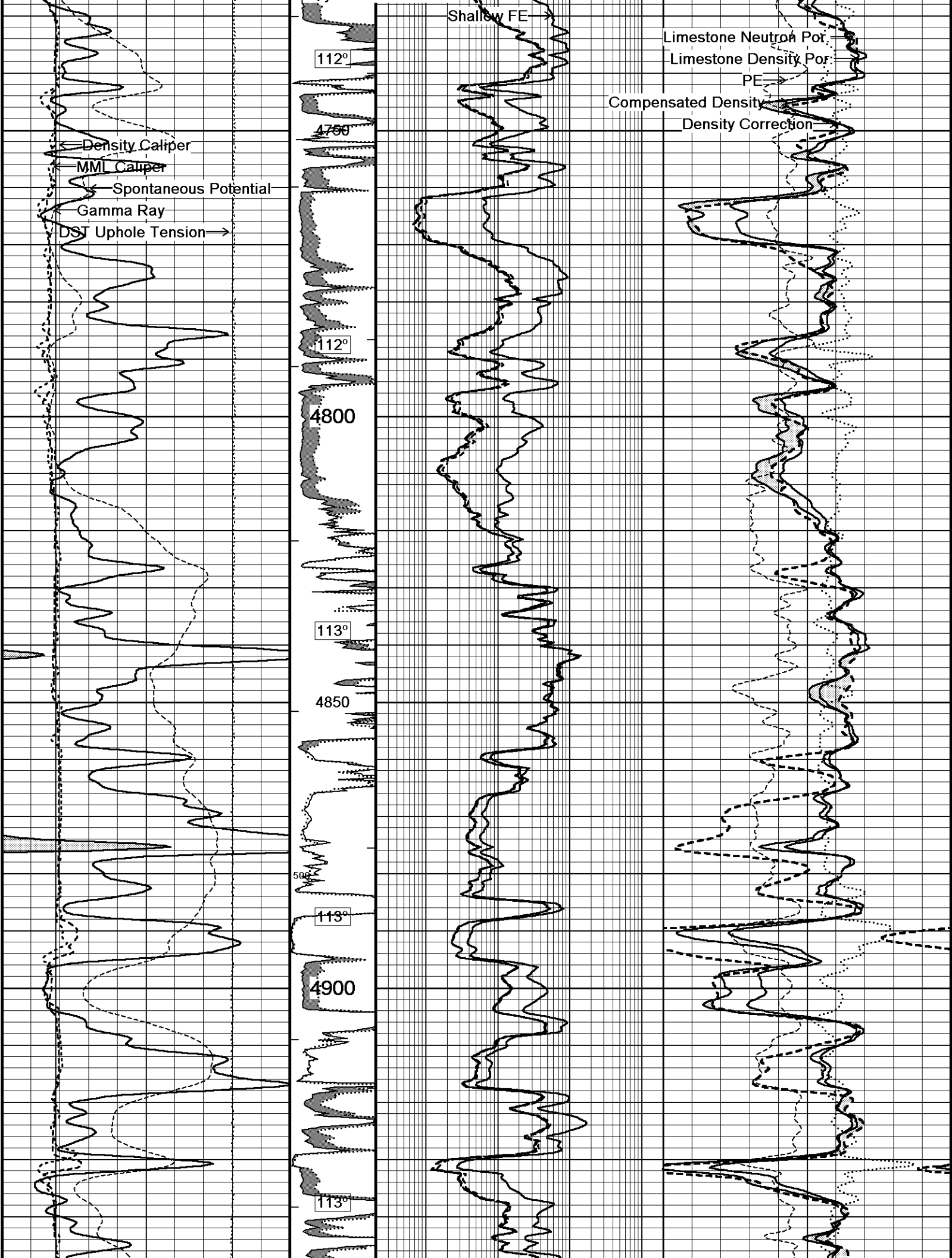


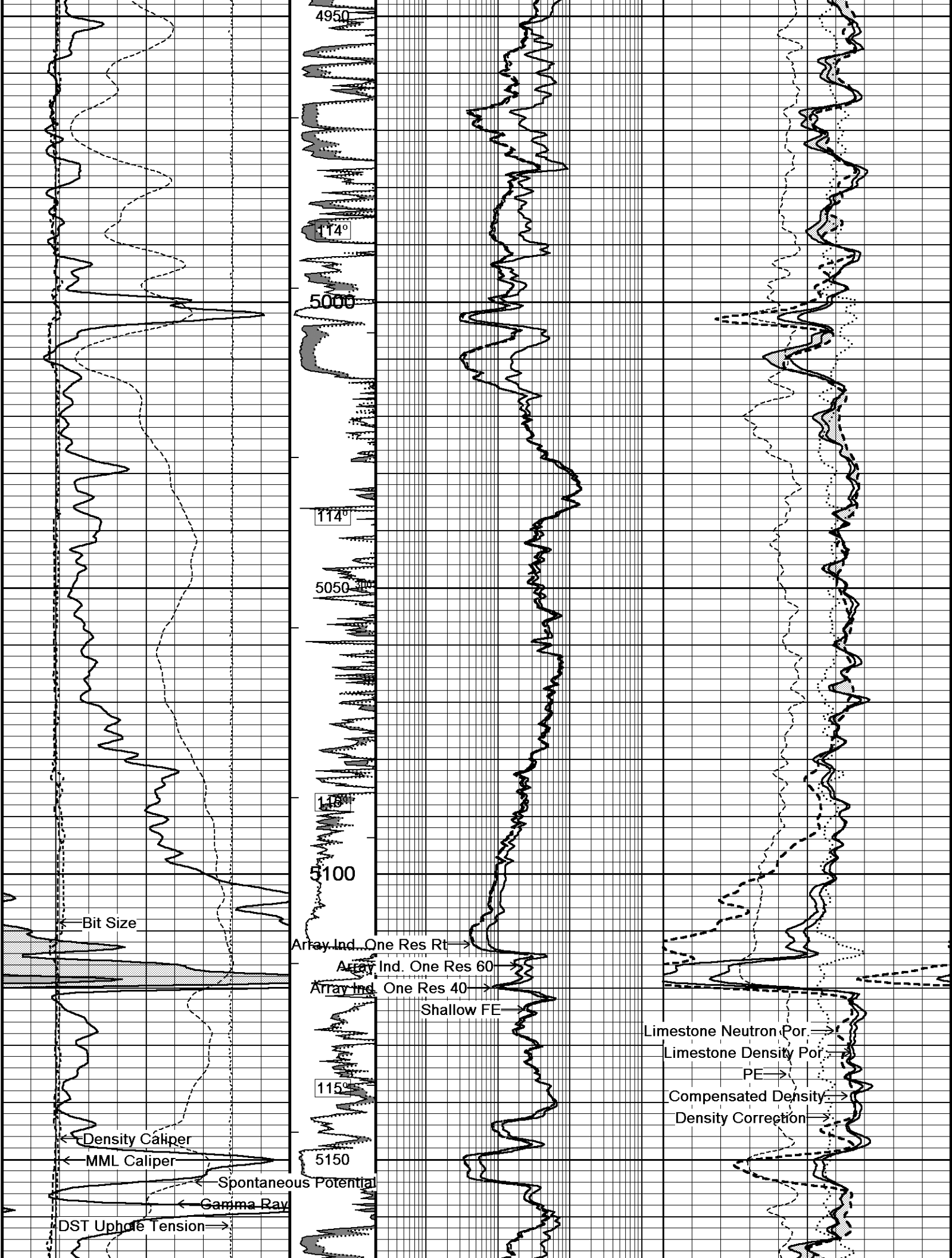


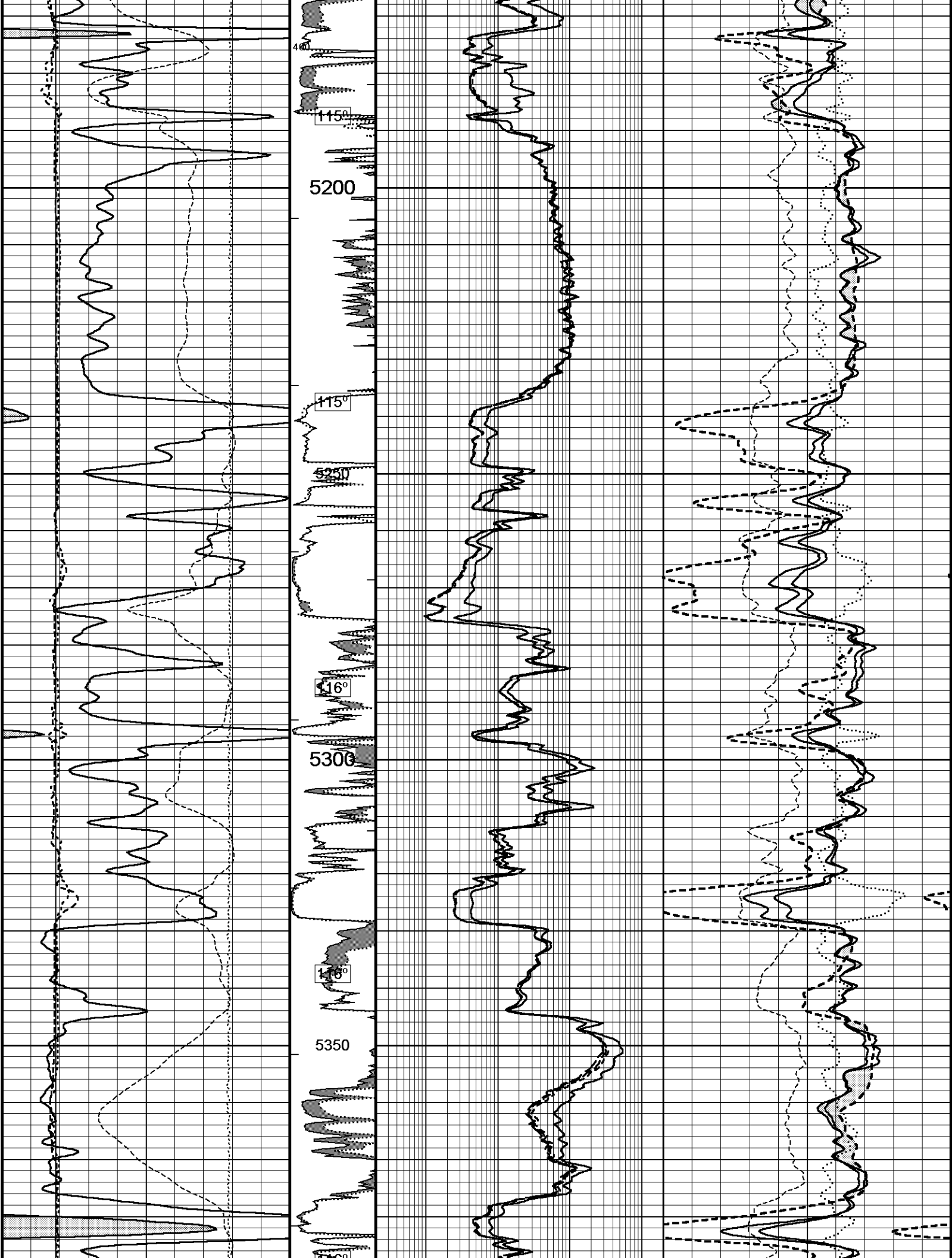


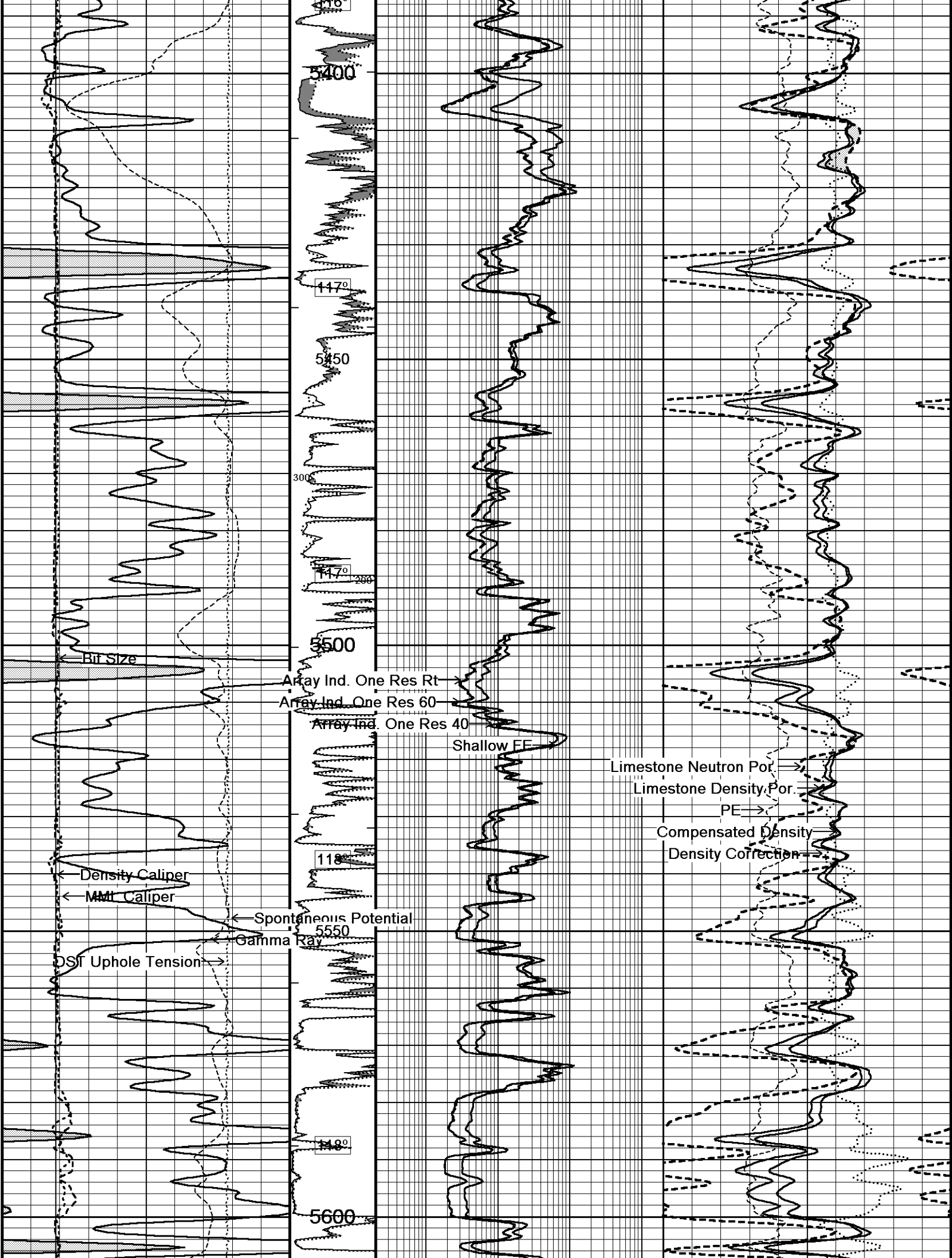


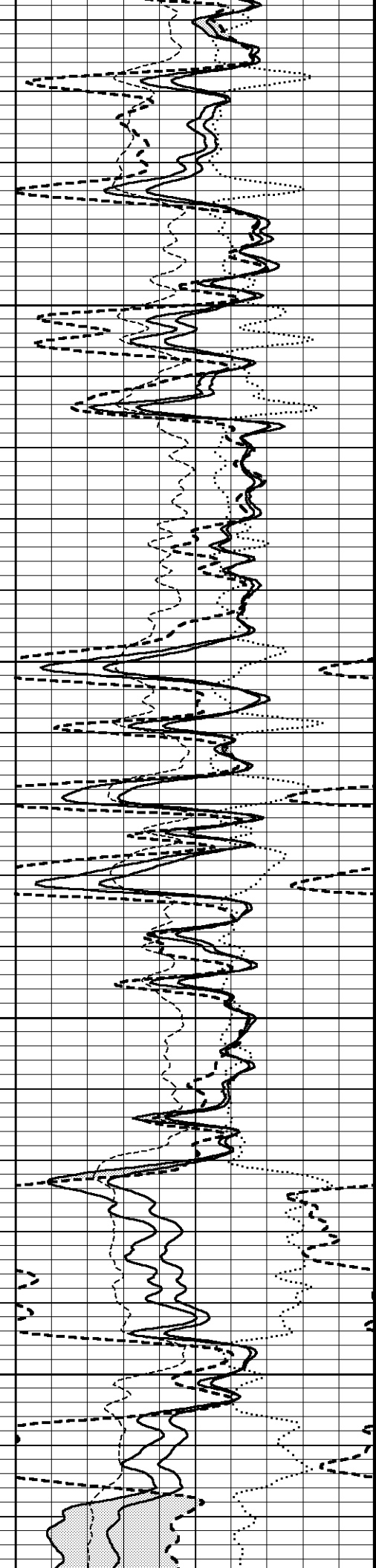
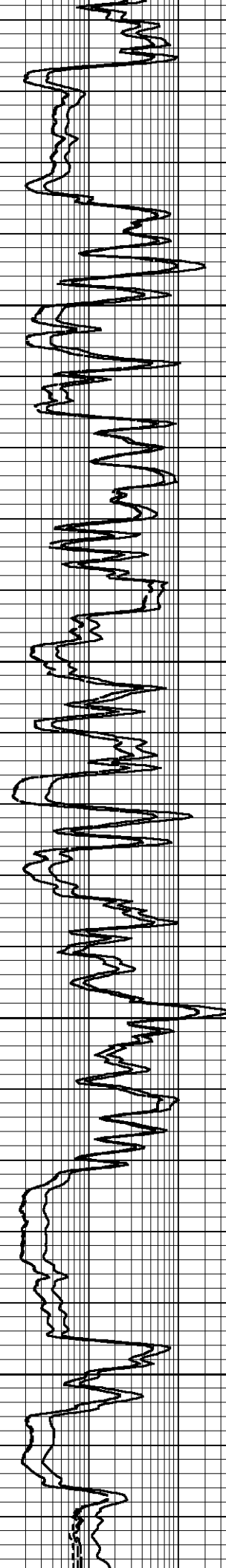
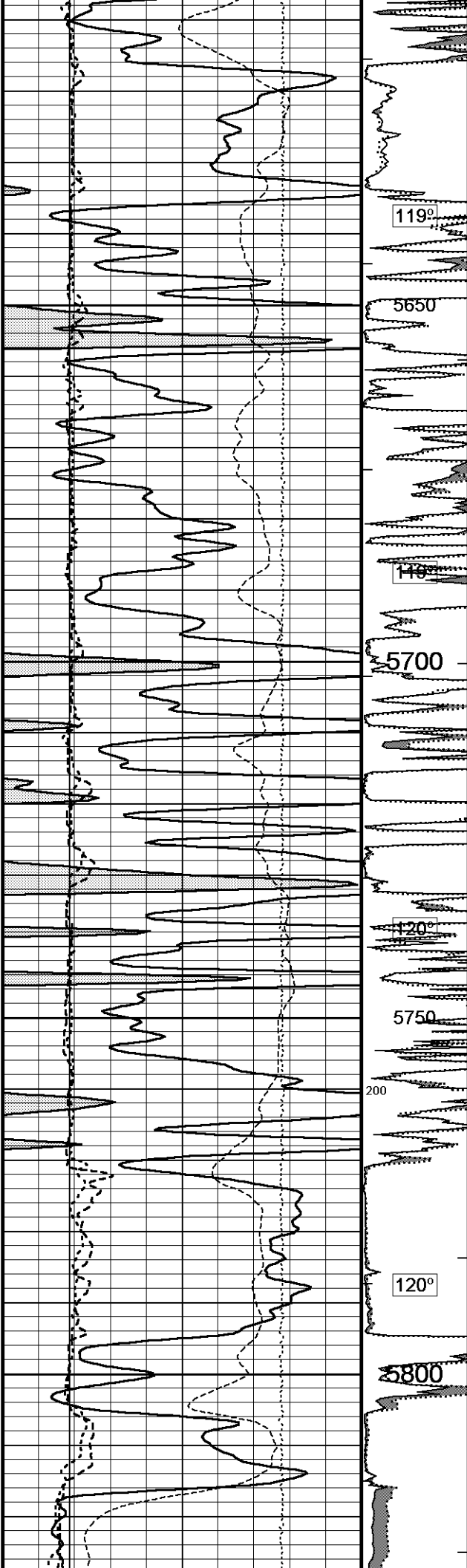


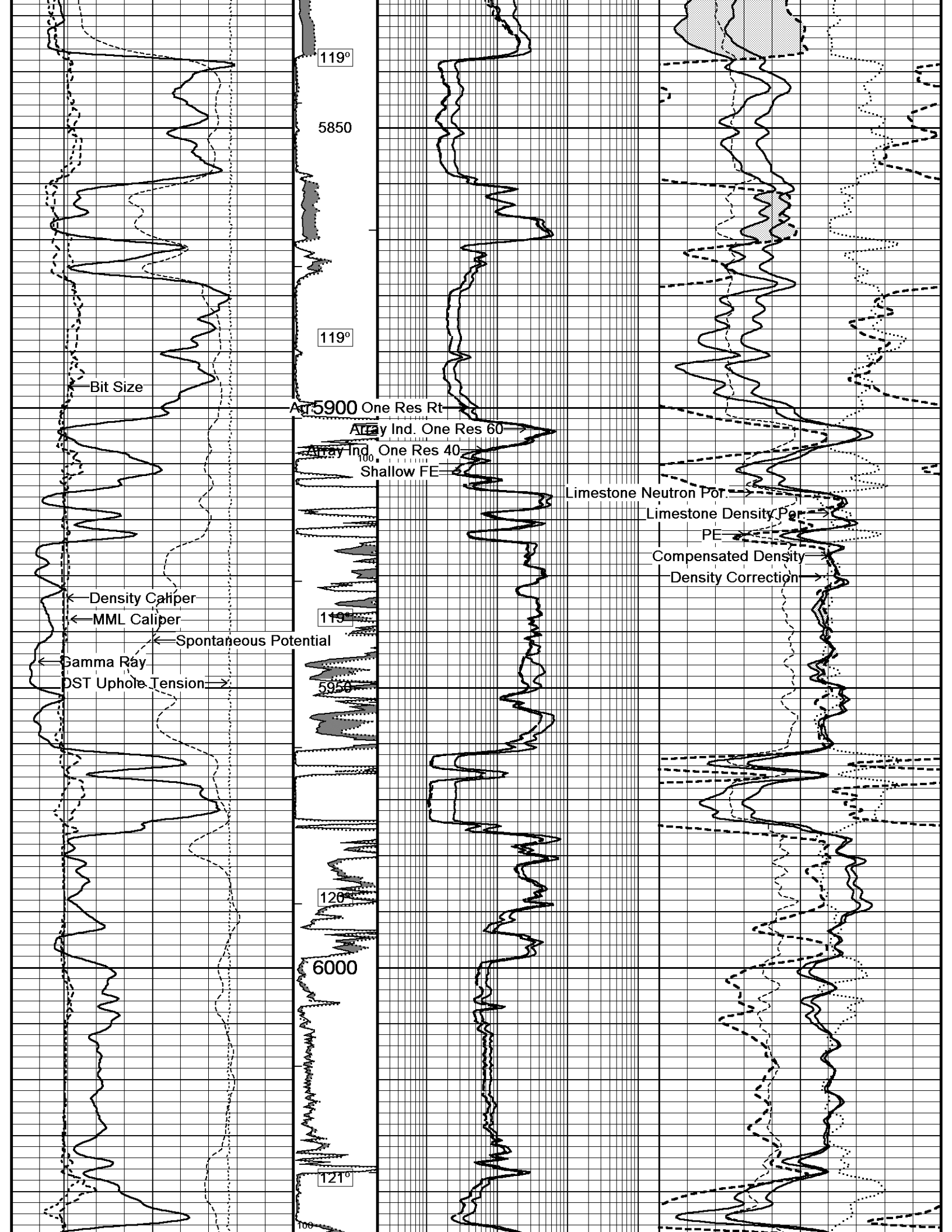


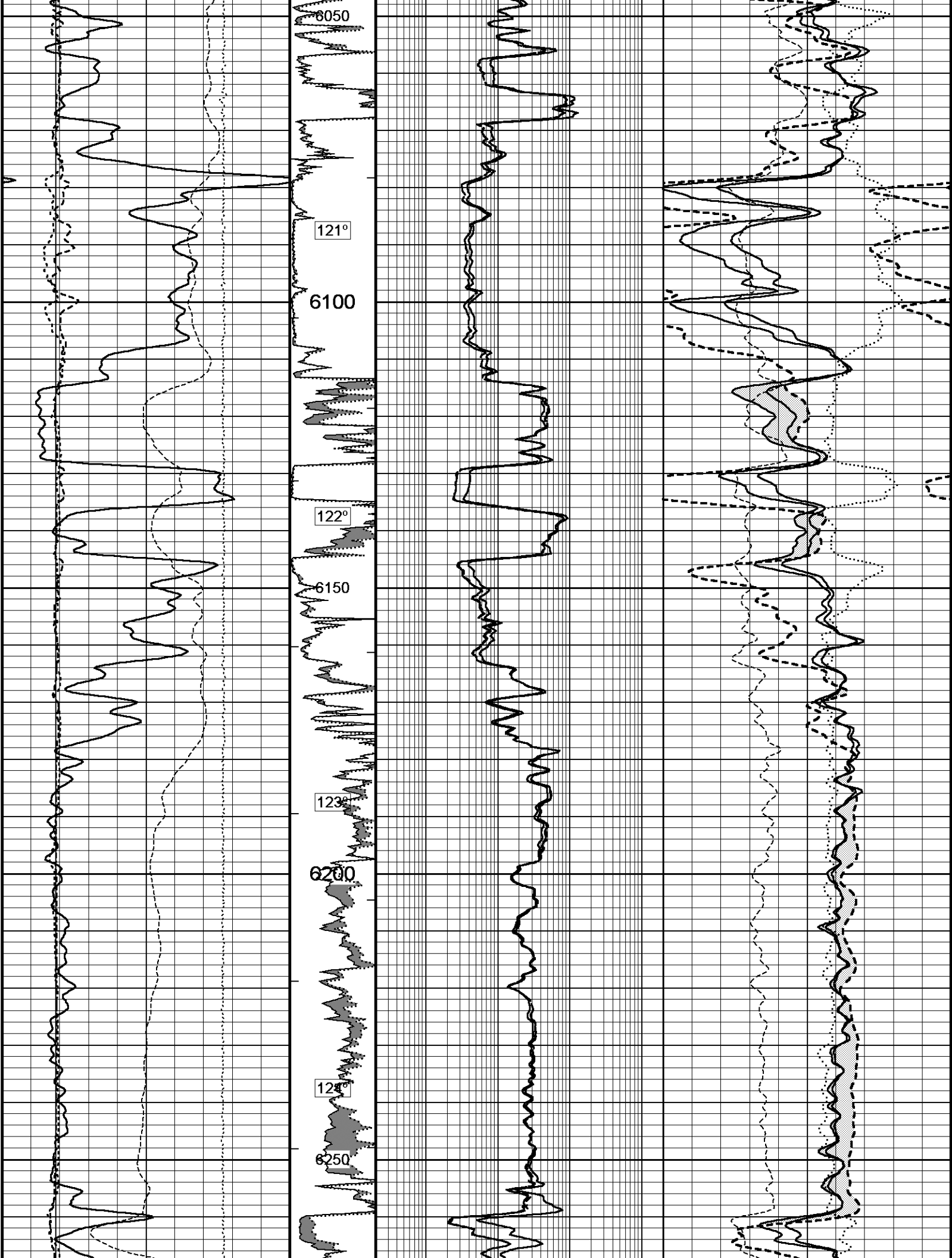


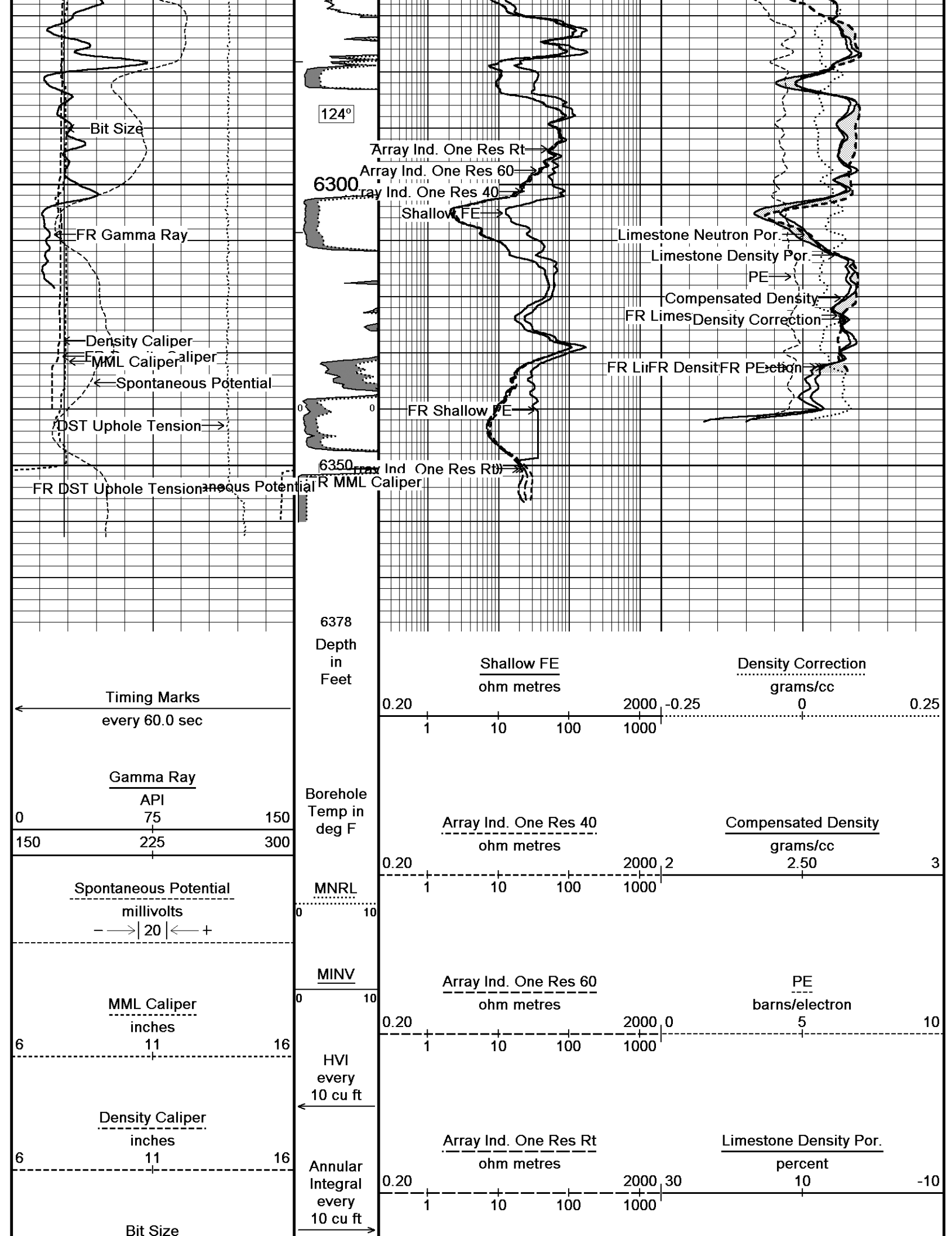


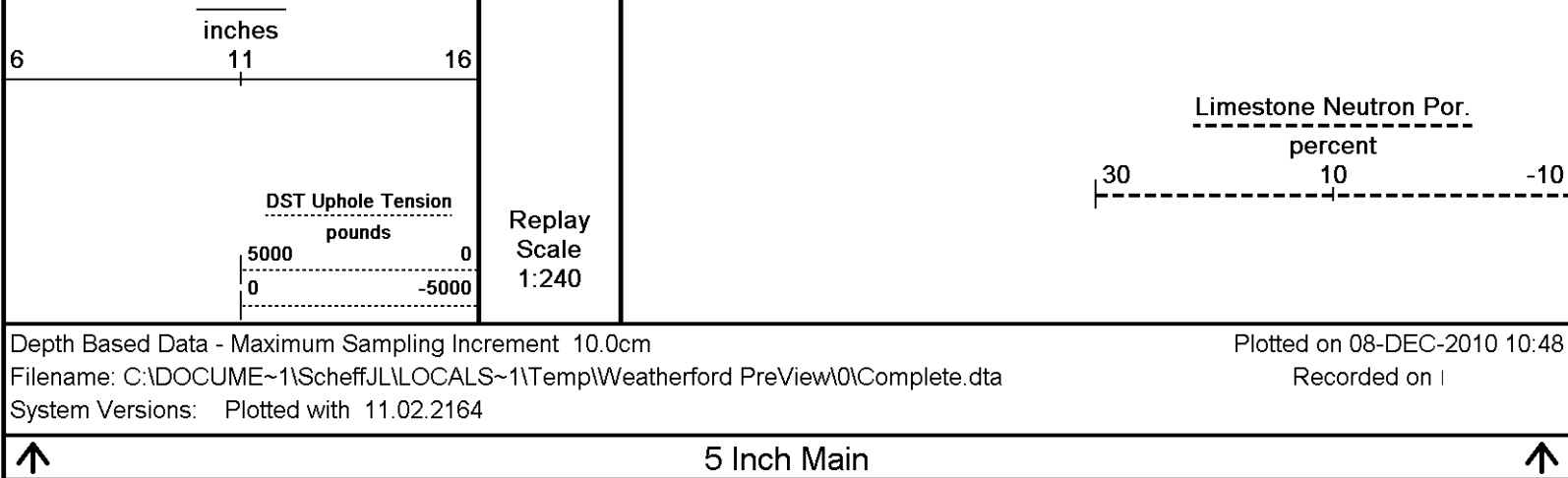












BEFORE SURVEY CALIBRATION			
C:\DOCUME~1\ScheffJL\LOCALS~1\Temp\Weatherford PreView\0\VAI#1-30_005.dta			
General Constants All 000		Last Edited on 07-DEC-2010,14:59	
General Parameters			
Mud Resistivity	0.850	ohm-metres	
Mud Resistivity Temperature	75.000	degrees F	
Water Level	0.000	feet	
Density/Neutron Processing	Wet Hole		
Hole/Annular Volume and Differential Caliper Parameters			
HVOL Method	Single Caliper		
HVOL Caliper 1	Density Caliper		
HVOL Caliper 2	N/A		
Annular Volume Diameter	4.500	inches	
Caliper for Differential Caliper	Density Caliper		
Rwa Parameters			
Porosity used	Limestone Density Por.		
Resistivity used	Array Ind. One Res Rt		
RWA Constant A	1.000		
RWA Constant M	2.000		
High Resolution Temperature Calibration MCG-B 67		Field Calibration on 06-AUG-2010,10:40	
	Measured	Calibrated(Deg F)	
Lower	50.00	50.00	
Upper	75.00	75.00	
High Resolution Temperature Constants MCG-B 67		Last Edited on 06-AUG-2010,10:39	
Pre-filter Length	11		
SP Calibration MCG-B 67		Field Calibration on 09-SEP-2010 13:54	
	Measured	Calibrated (mV)	
Reference 1	104.1	100.0	
Reference 2	-95.6	-100.0	
Gamma Calibration MCG-B 67		Field Calibration on 02-DEC-2010 14:00	
	Measured	Calibrated (API)	
Background	65	45	
Calibrator (Gross)	727	501	
Calibrator (Net)	662	456	
Gamma Constants MCG-B 67		Last Edited on 07-DEC-2010,15:00	
Gamma Calibrator Number	grcc141		
Mud Density	1.10	gm/cc	
Caliper Source for Processing	Density Caliper		
Tool Position	Eccentred		
Concentration of KCl	0.00	kppm	

Base Calibration

Channel	Measured		Calibrated (ohm-m)	
	Resistor 1	Resistor 2	Resistor 1	Resistor 2
Micro Normal	12.1	60.2	2.6	12.8
Micro Inverse	15.7	78.5	1.7	8.4
Channel	Base Check (ohm-m)		Field Check (ohm-m)	
Micro Normal	32.2		32.2	
Micro Inverse	16.3		16.3	

Micro Normal and Micro Inverse Constants MML-A 16

Last Edited on 02-AUG-2010,10:08

Pad Type	8-12 in Soft Rubber Inflatable 006-9011-159		
Micro Normal K Factor	0.5110		
Micro Inverse K Factor	0.3380		
Standoff Offset	N/A inches		

Caliper Calibration MML-A 16

Base Calibration on 02-AUG-2010 10:25
Field Calibration on 02-AUG-2010 10:26

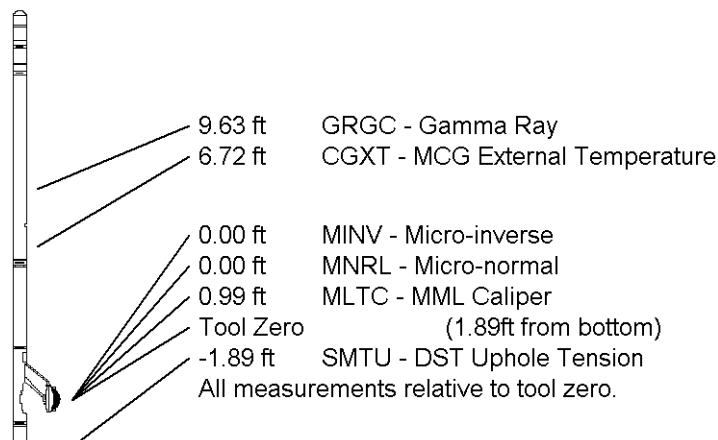
Base Calibration		
Reading No	Measured	Calibrator Size (in)
1	13663	5.96
2	17133	7.98
3	20563	9.95
4	24412	11.91
5	0	0.00
6	N/A	N/A
Field Calibration		
	Measured Caliper (in)	Actual Caliper (in)
	5.99	5.96

DOWNHOLE EQUIPMENT

C:\DOCUME~1\ScheffJL\LOCALS~1\Temp\Weatherford PreView\0\VAI\ #1-30_005.dta

MCB-A.A 11B Tension Cablehead
MCB-A.A 2 LG: 2.40 ft WT: 19.8 lb OD: 2.24 inCompact Comms Gamma
MCG-B 67 LG: 8.70 ft WT: 63.9 lb OD: 2.24 inCompact Micro-log
MML-A 16 LG: 7.97 ft WT: 81.6 lb OD: 2.24 in

Total Length: 19.06 ft Weight: 165.3 lb



COMPANY

O' BRIEN ENERGY

WELL

VAI #1-30

FIELD

SINGLEY

PROVINCE/COUNTY

MEADE

COUNTRY/STATE

U.S.A./KANSAS

Elevation Kelly Bushing	2679.00	feet
Elevation Drill Floor	2678.00	feet
Elevation Ground Level	2667.00	feet

First Reading		feet
Depth Driller	6351.00	feet
Depth Logger	6354.00	feet

