



Weatherford

MICRORESISTIVITY LOG

COMPANY			O'BRIEN RESOURCES, LLC.		
WELL			BESPERAT #33-1		
FIELD			WILDCAT		
PROVINCE/COUNTY			RUSH		
COUNTRY/STATE			U.S.A. / KANSAS		
LOCATION			1250' FNL & 1391' FEL		
SEC 33	TWP 18S	RGE 17W	Other Services		
Latitude			MAI/MFE		
Longitude			MSS		
API Number	15-165-22139		MPD/MDN		
Permanent Datum GL, Elevation 2057 feet					
Log Measured From KB, 8 feet above Permanent Datum					
Drilling Measured From KB @ 8 FEET					
Date	22-DEC-2016		Elevations: KB 2065.00 DF 2063.00 GL 2057.00		
Run Number	ONE				
Service Order	4558-169594456				
Depth Driller	3836.00		feet		
Depth Logger	3834.00		feet		
First Reading	3788.00		feet		
Last Reading	2300.00		feet		
Casing Driller	264.00		feet		
Casing Logger	265.00		feet		
Bit Size	7.875		inches		
Hole Fluid Type	CHEMICAL				
Density / Viscosity	9.30 lb/USg		56.00 CP		
PH / Fluid Loss	10.50		12.00 ml/30Min		
Sample Source	FLOWLINE				
Rm @ Measured Temp	0.29 @ 75.0		ohm-m		
Rmf @ Measured Temp	0.23 @ 75.0		ohm-m		
Rmc @ Measured Temp	0.35 @ 75.0		ohm-m		
Source Rmf / Rmc	CALC		CALC		
Rm @ BHT	0.23 @ 96.0		ohm-m		
Time Since Circulation	4 HOURS				
Max Recorded Temp	96.00		deg F		
Equipment / Base	13096		OKC		
Recorded By	ADAM SILL				
Witnessed By	JIM MUSGROVE				

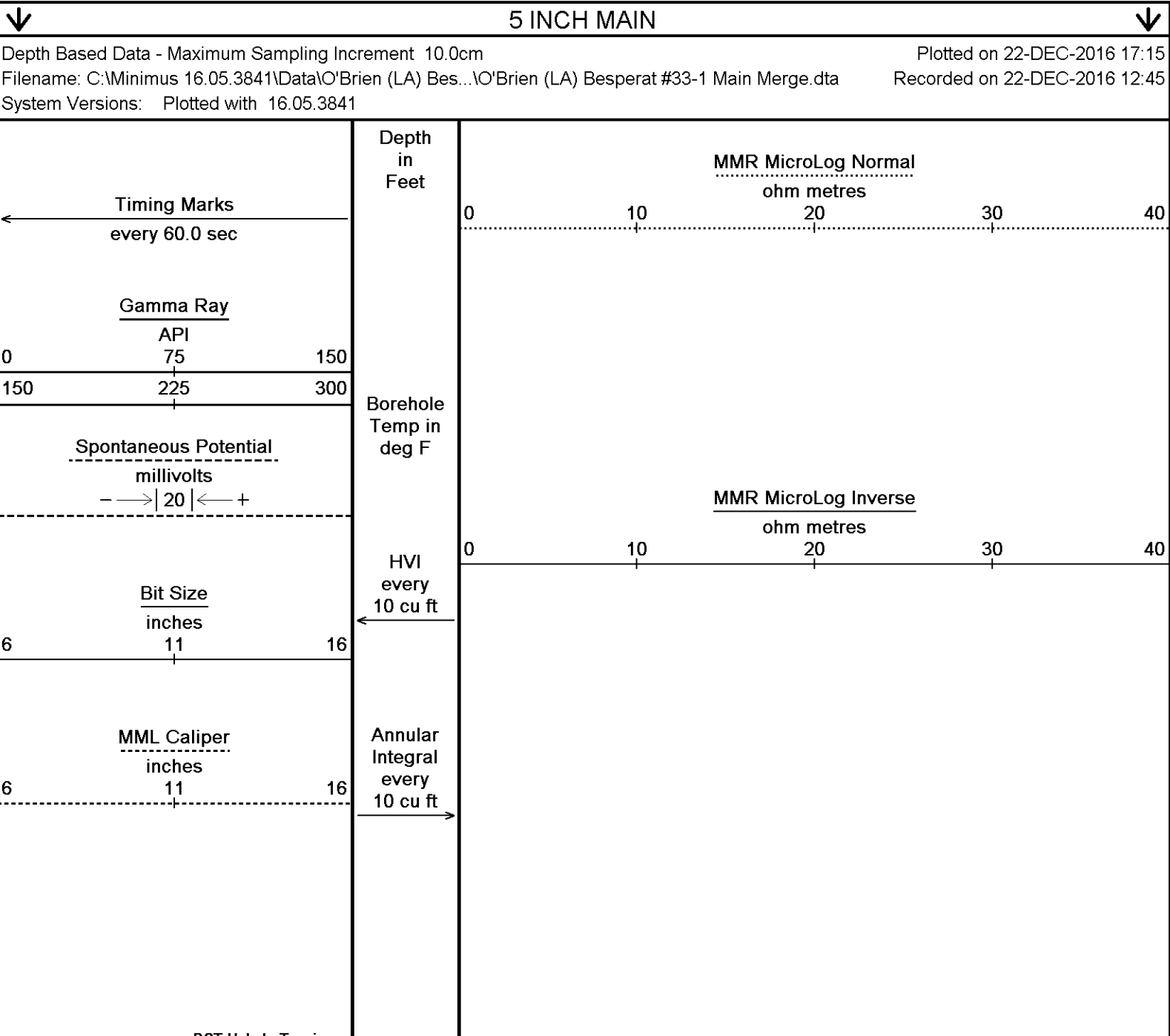
BOREHOLE RECORD					Last Edited: 22-DEC-2016 12:25
Bit Size inches		Depth From feet		Depth To feet	
7.875		264.00		3836.00	
CASING RECORD					
Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft	
SURFACE	8.625	0.00	264.00	24.00	

REMARKS
- SOFTWARE ISSUE: WLS 15.03.5939.
- RUN ONE: 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: 1792 CU.FT.
- ANNULAR HOLE VOLUME WITH 4.5 INCH PRODUCTION CASING FROM TD TO 2300: 392 CU.FT.

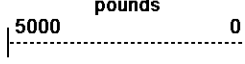
- RIG: DUKE #2.
- ENGINEER: A. SILL.
- OPERATOR: B. TOVAR.

**** GAMMA RAY FROM RUN TWO WAS SPLICE INTO RUN ONE TO ALLOW FOR A DEEPER GAMMA RAY FIRST READ. ****

In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will give the Company the benefit of the Contractor's best judgment based on its experience and will perform all such Work in a good and workmanlike manner. Any interpretation of test or other data, and any recommendation or reservoir description based upon such interpretations, are opinions based upon inferences from measurements and empirical relationships and assumptions, which inferences and assumptions are not infallible, and with respect to which professional engineers and analysts may differ. ACCORDINGLY ANY INTERPRETATION OR RECOMMENDATION RESULTING FROM THE SERVICES WILL BE AT THE SOLE RISK OF THE COMPANY, AND THE CONTRACTOR CANNOT AND DOES NOT WARRANT THE ACCURACY, CORRECTNESS OR COMPLETENESS OF ANY SUCH INTERPRETATION OR RECOMMENDATION, WHICH INTERPRETATIONS AND RECOMMENDATIONS SHOULD NOT, THEREFORE, UNDER ANY CIRCUMSTANCES BE RELIED UPON AS THE SOLE OR MAIN BASIS FOR ANY DRILLING, COMPLETION, WELL TREATMENT, PRODUCTION OR FINANCIAL DECISION, OR ANY PROCEDURE INVOLVING ANY RISK TO THE SAFETY OF ANY DRILLING ACTIVITY, DRILLING RIG OR ITS CREW OR ANY OTHER INDIVIDUAL. THE COMPANY HAS FULL RESPONSIBILITY FOR ALL DECISIONS CONCERNING THE SERVICES.



DSI Up-hole Tension
pounds



Replay
Scale
1:240

2300

88°

2350

88°

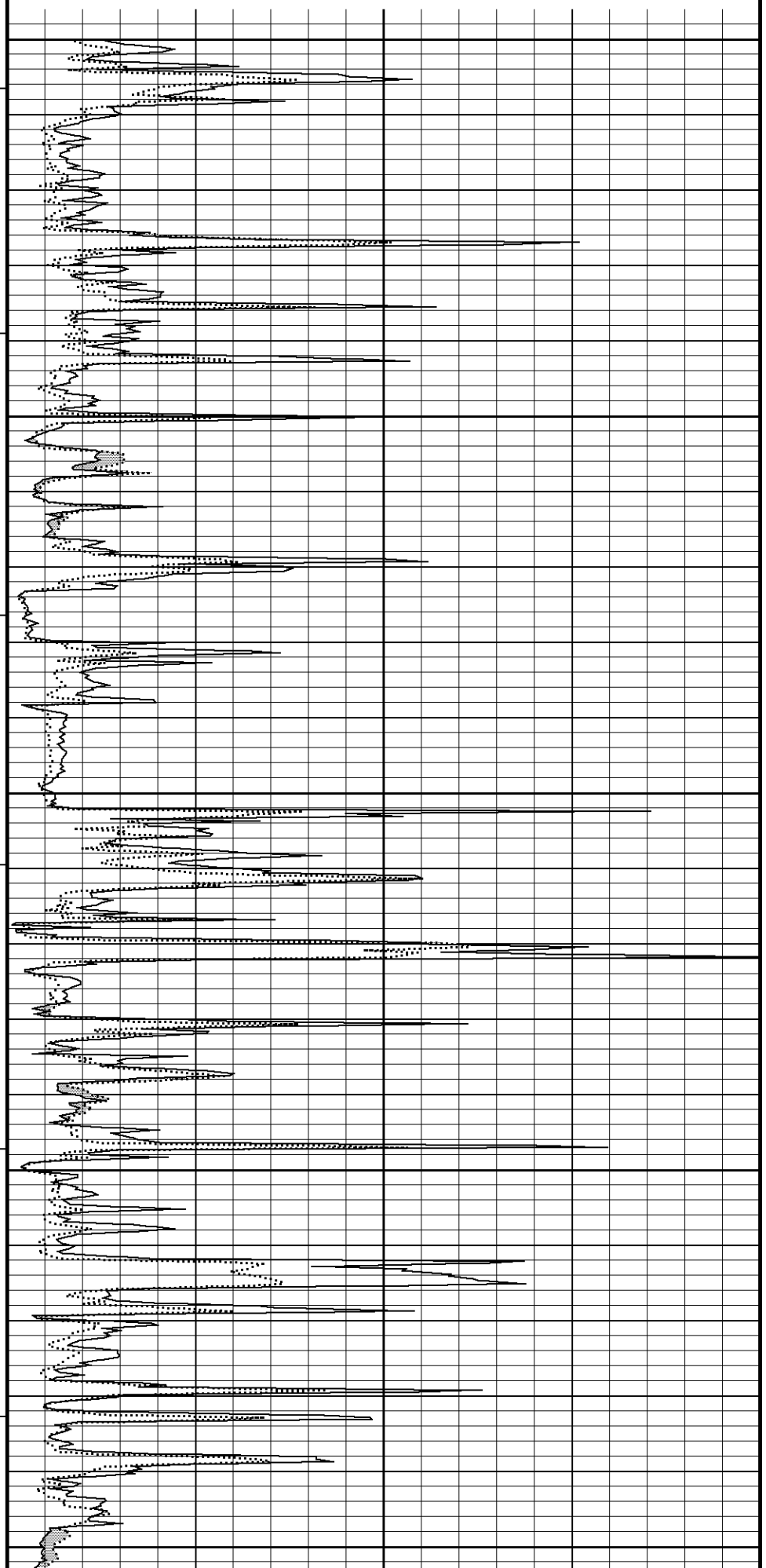
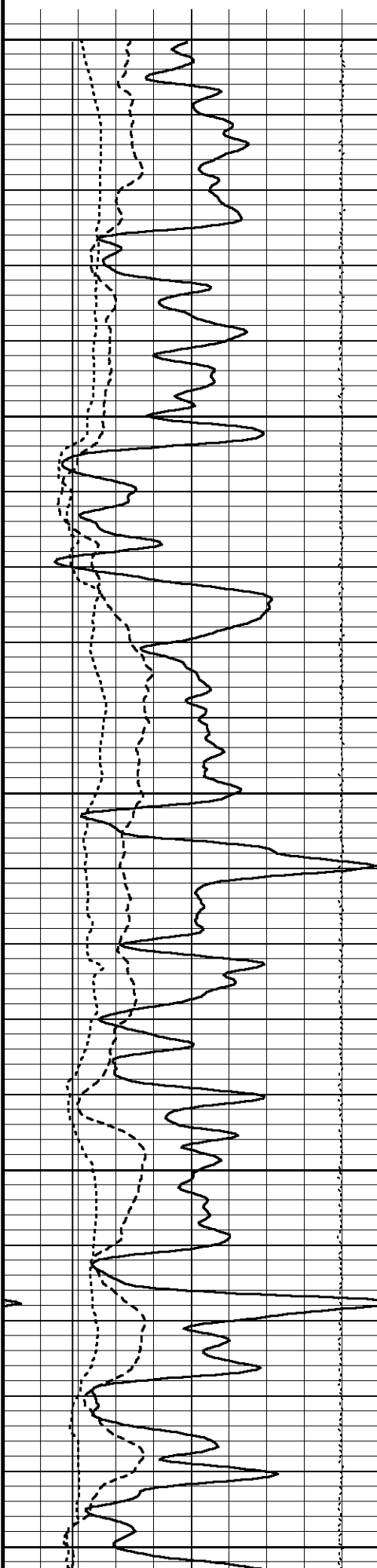
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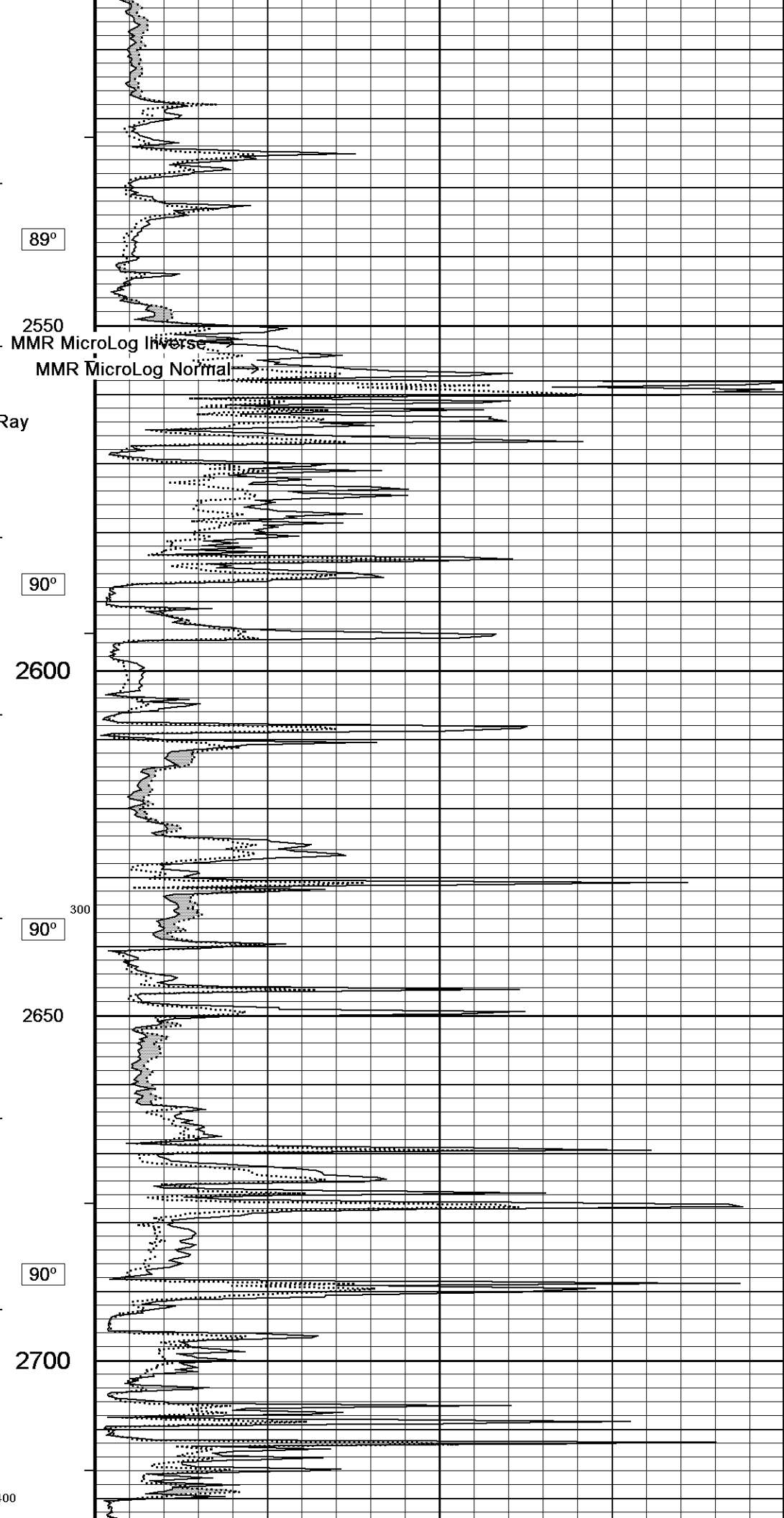
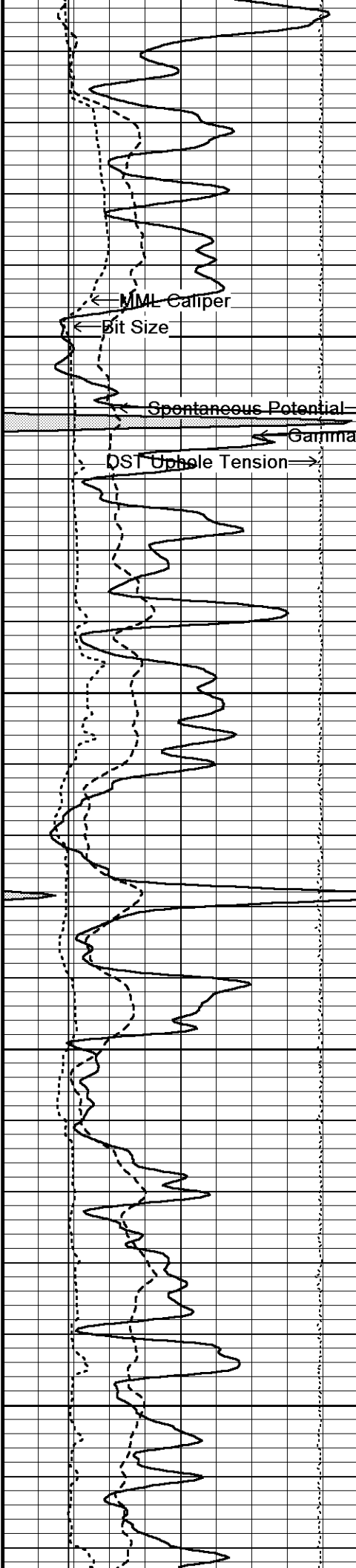
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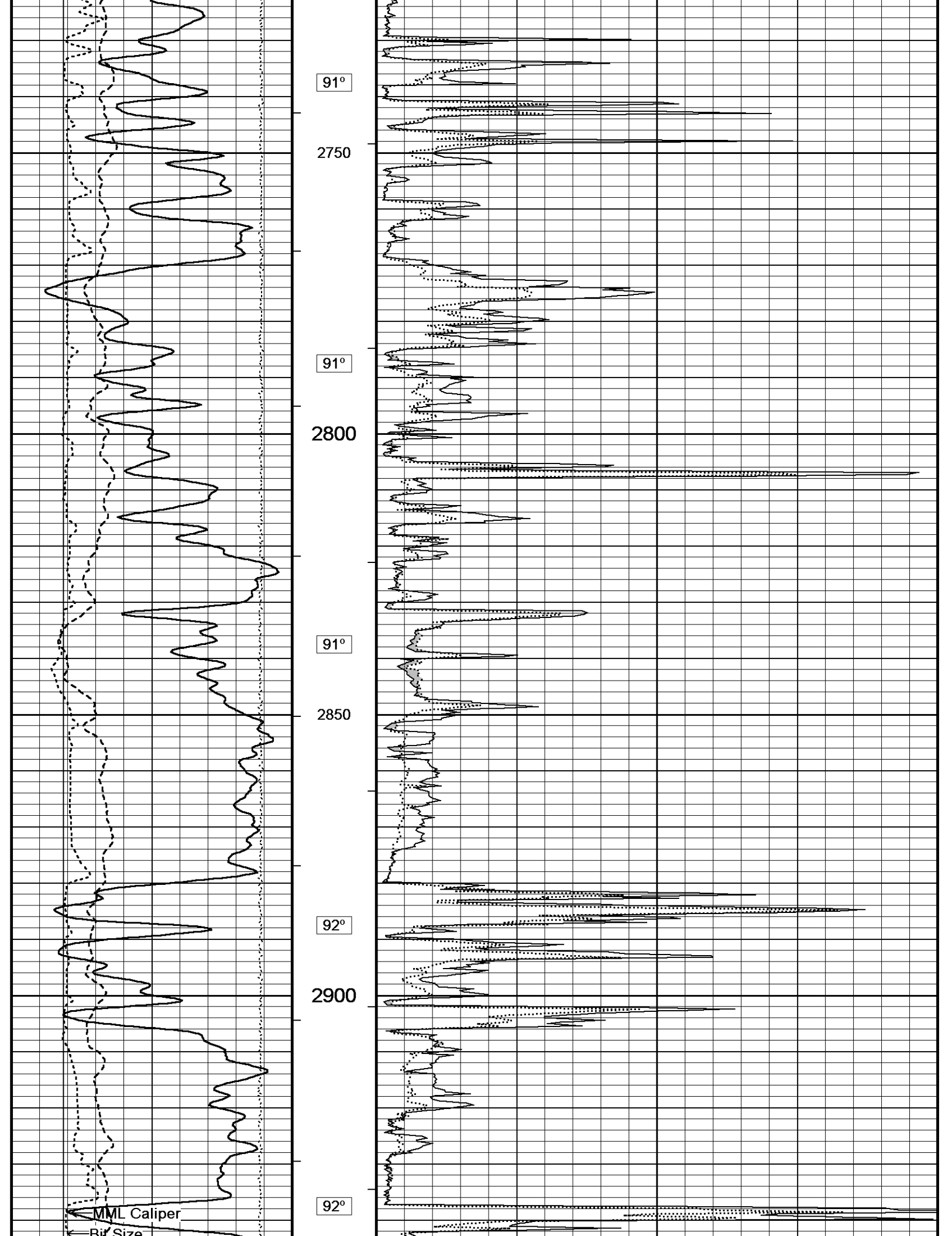
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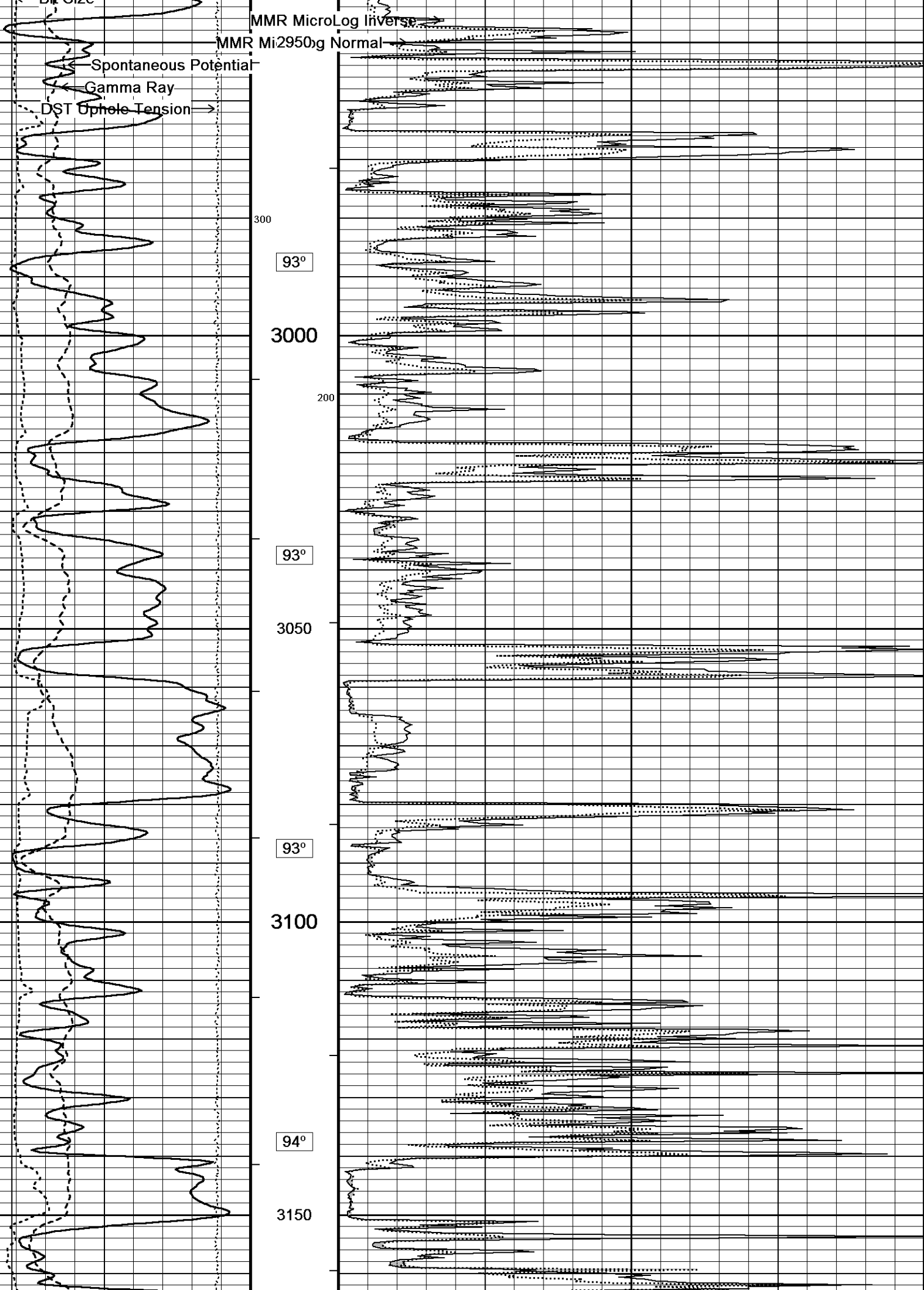
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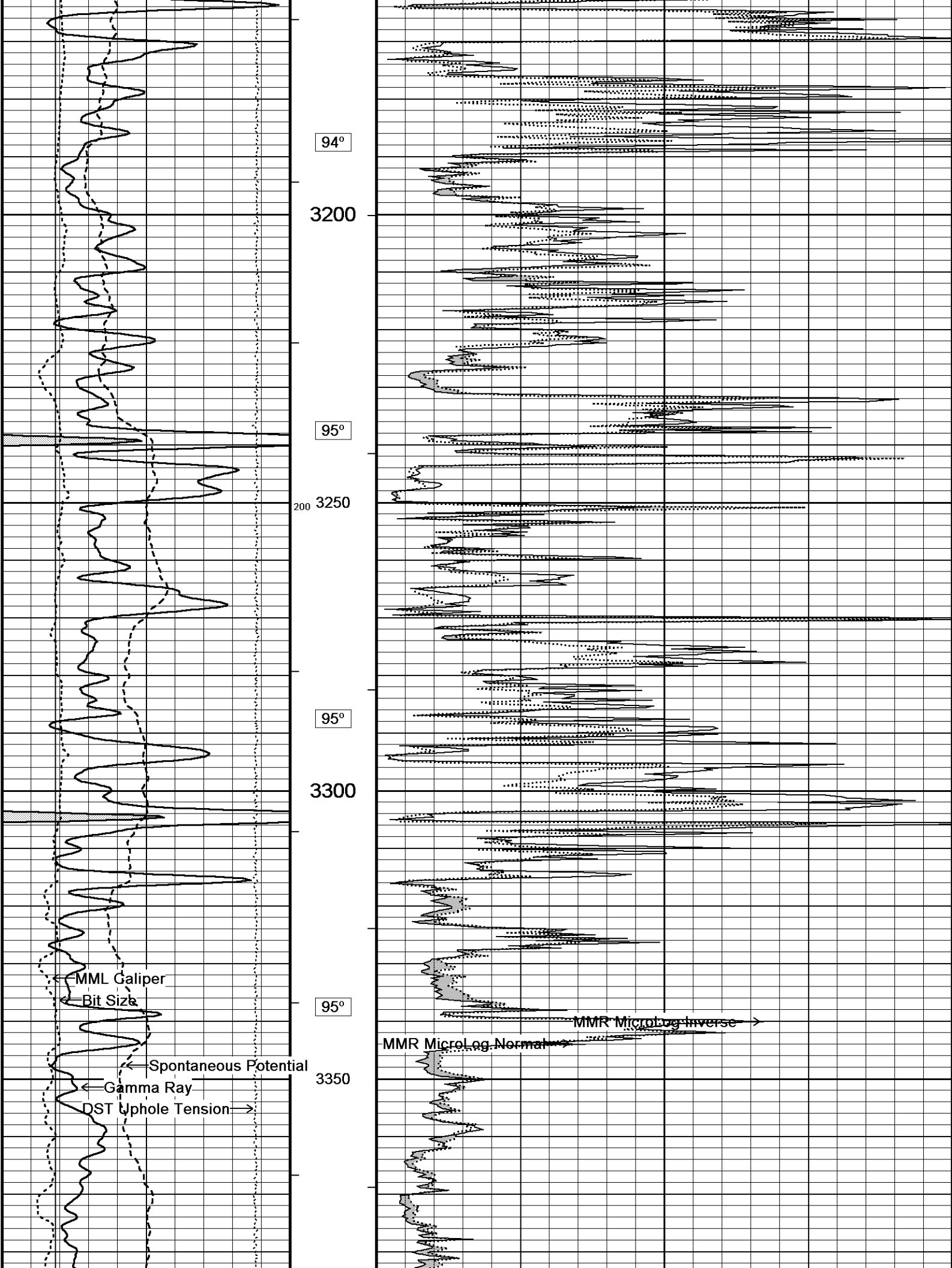
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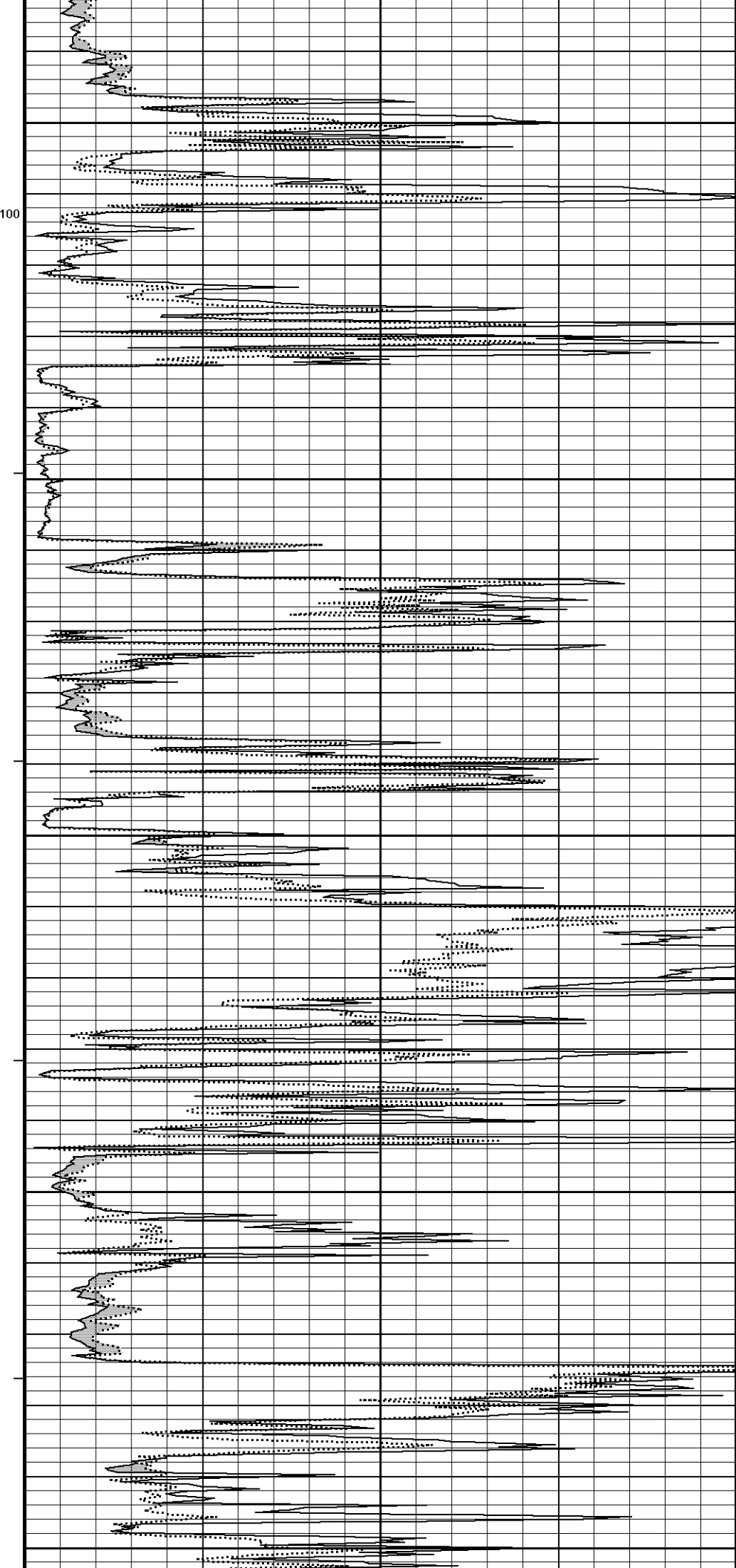
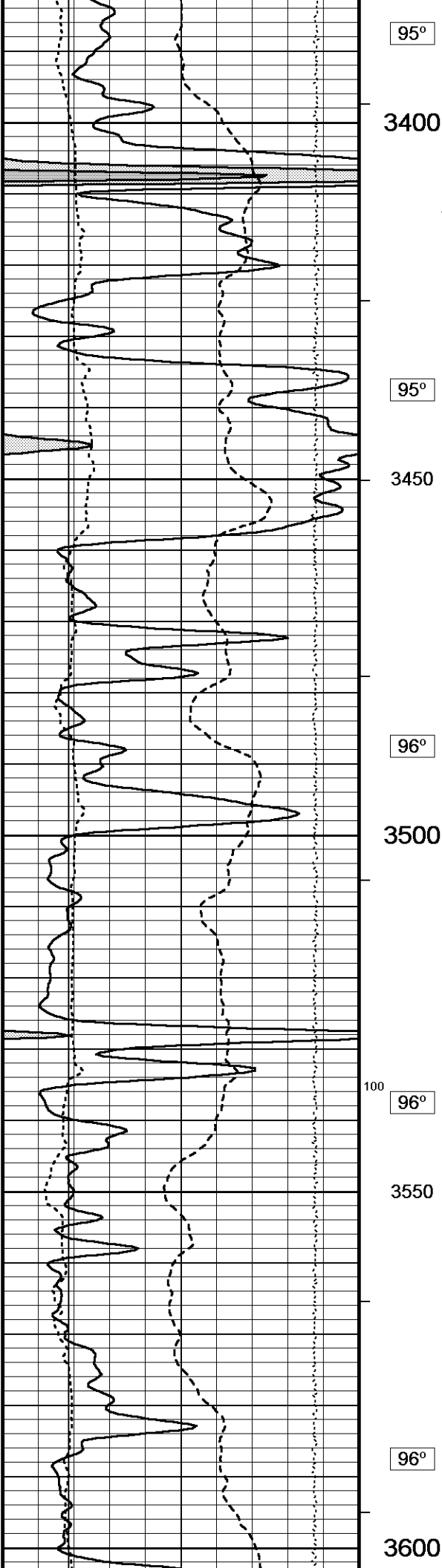


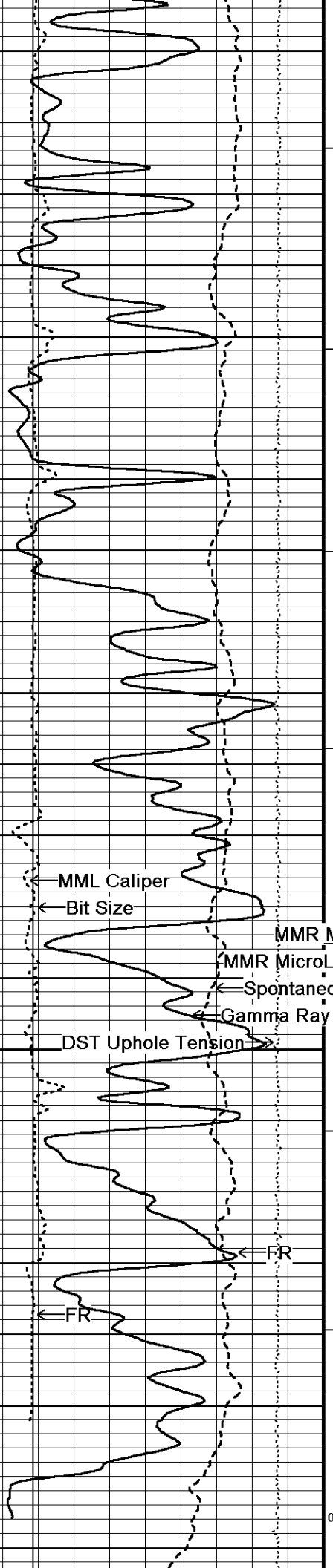












96°

3650

95°

3700

MMR MicroLog Inverse

MMR MicroLog Normal

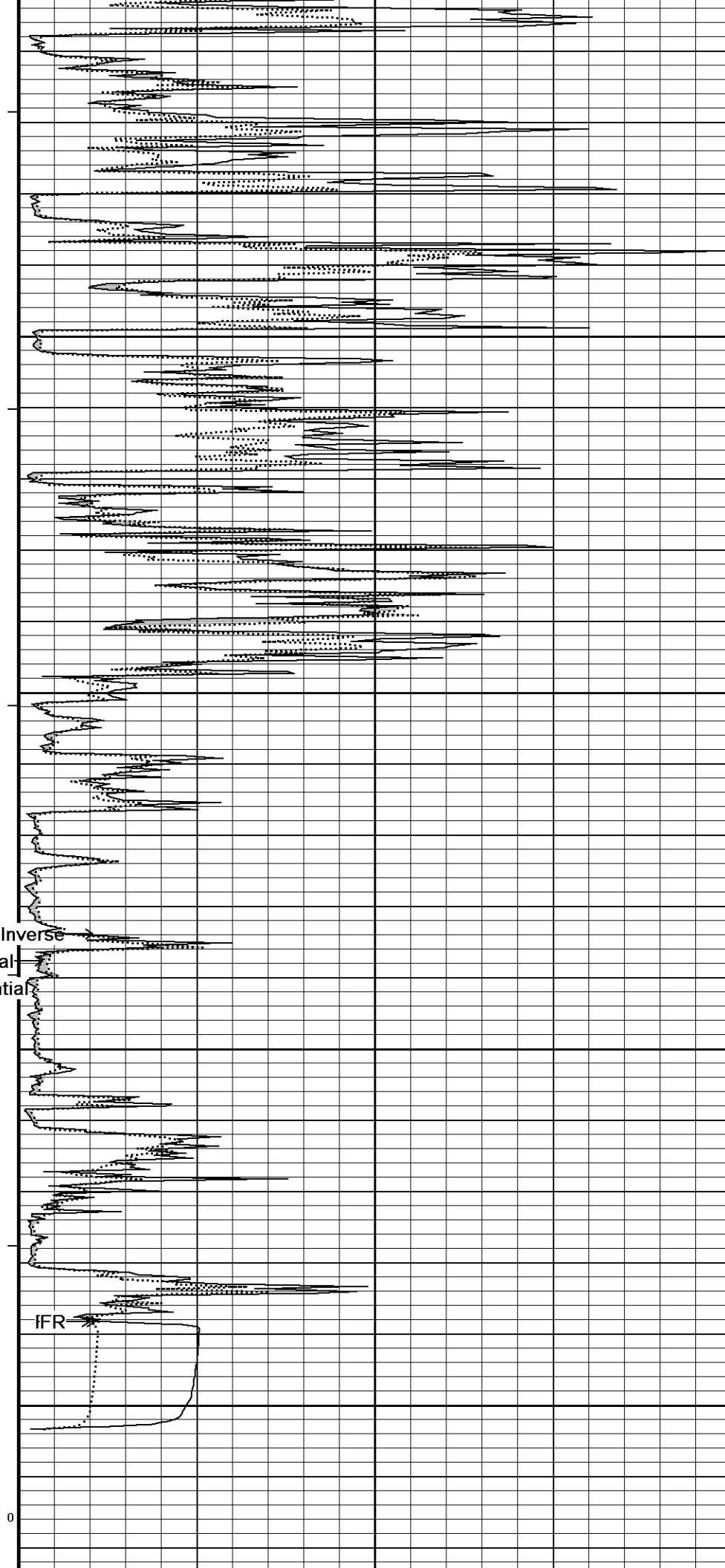
Spontaneous Potential

Gamma Ray

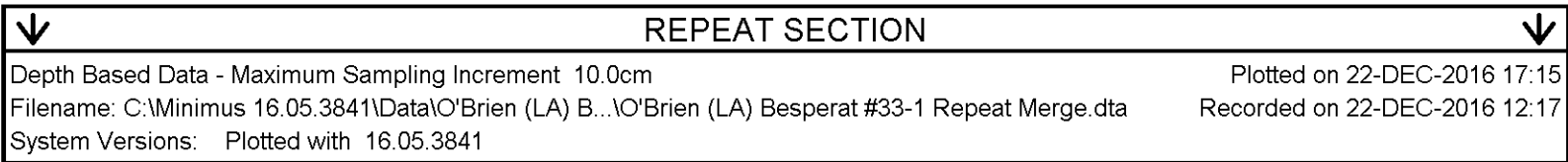
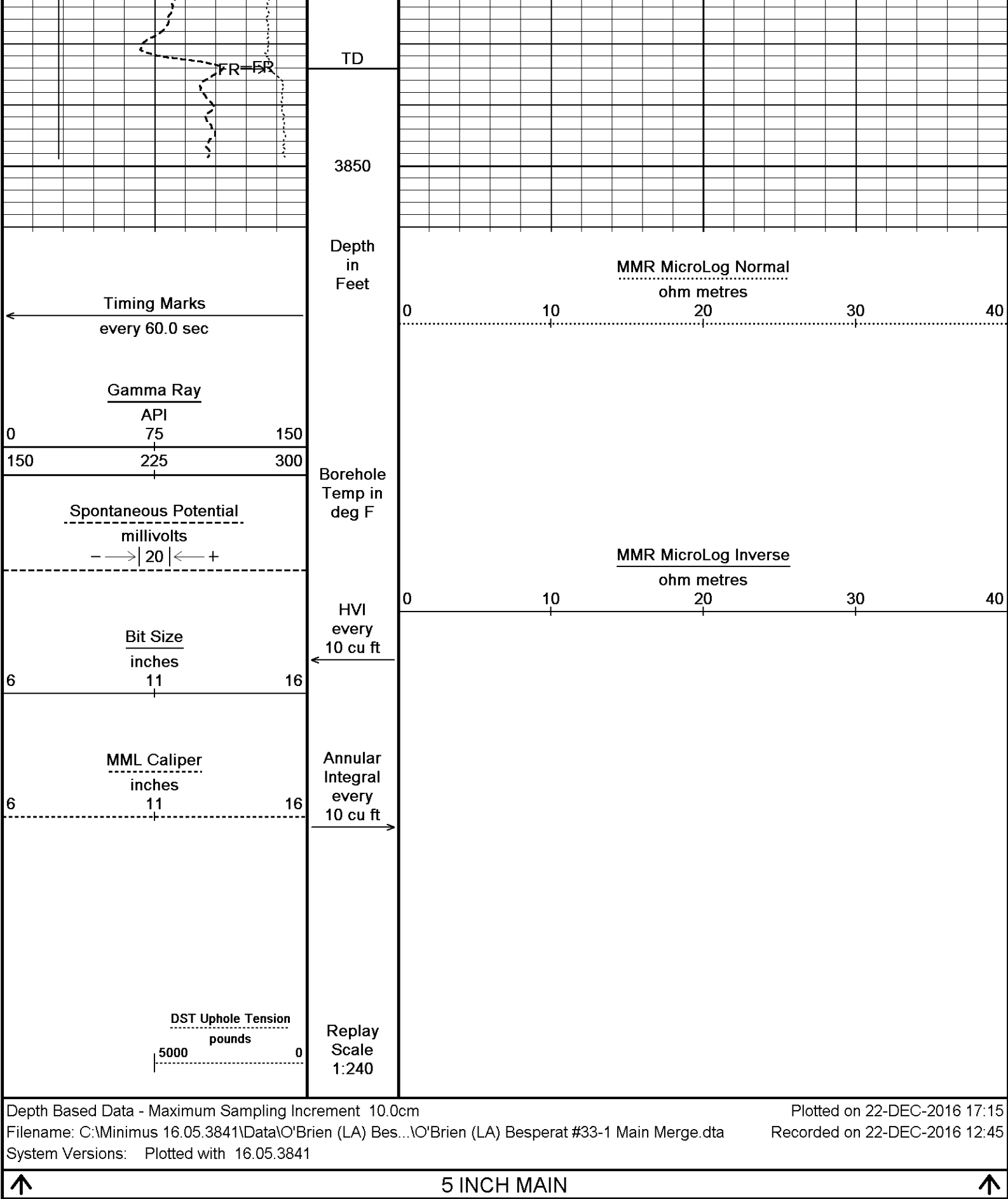
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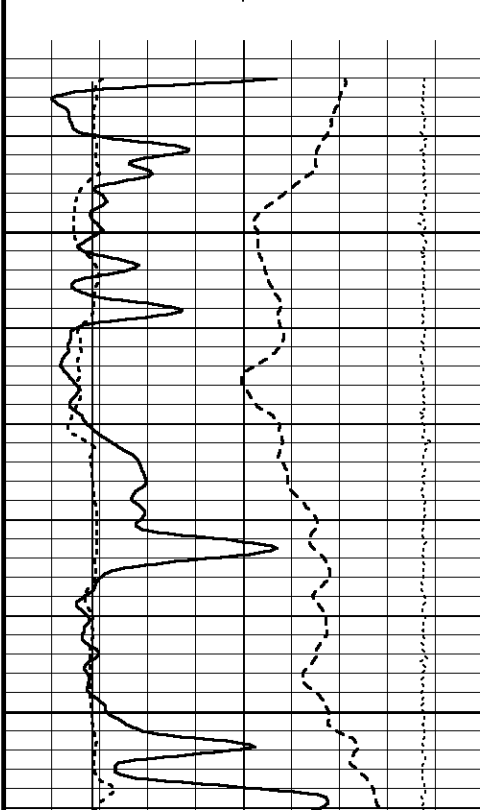
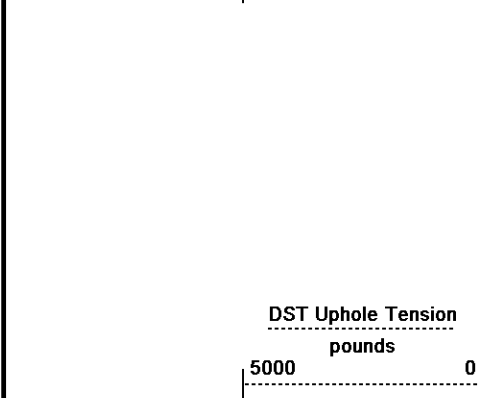
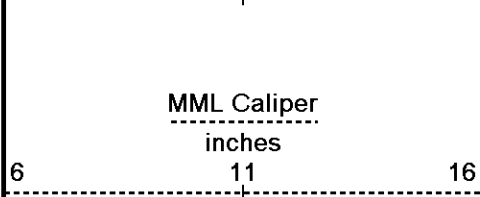
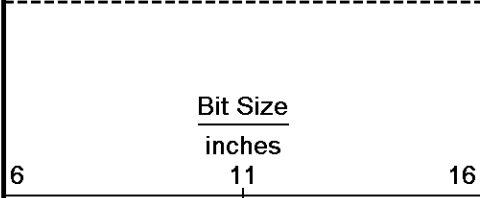
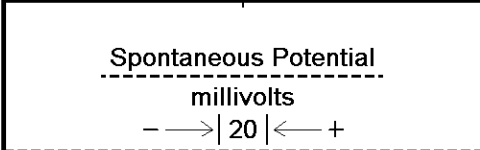
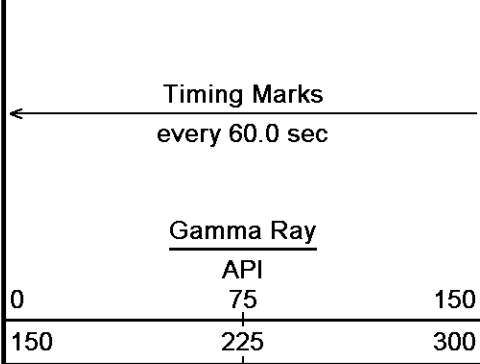
96°

3800



IFR





Depth
in
Feet

Borehole
Temp in
deg F

HVI
every
10 cu ft

Annular
Integral
every
10 cu ft

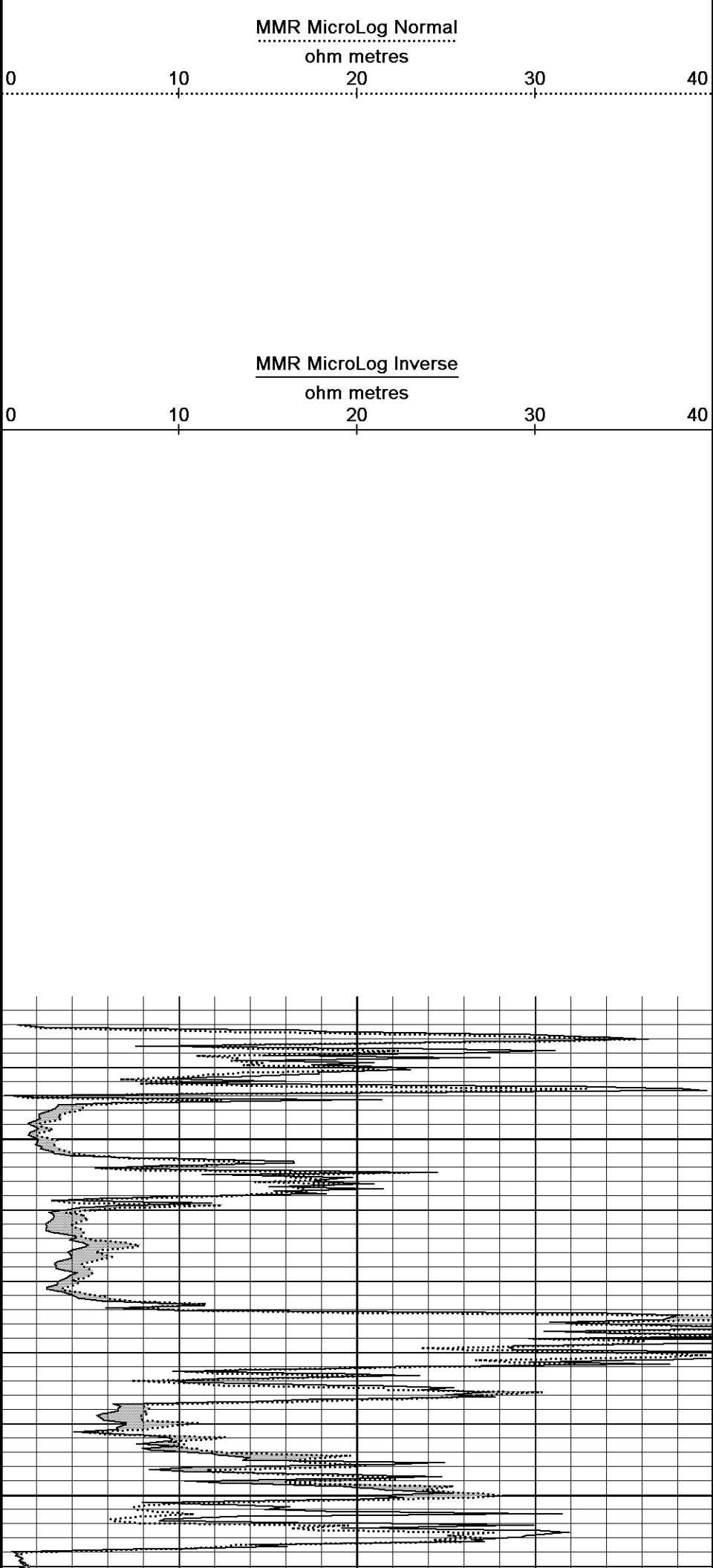
Replay
Scale
1:240

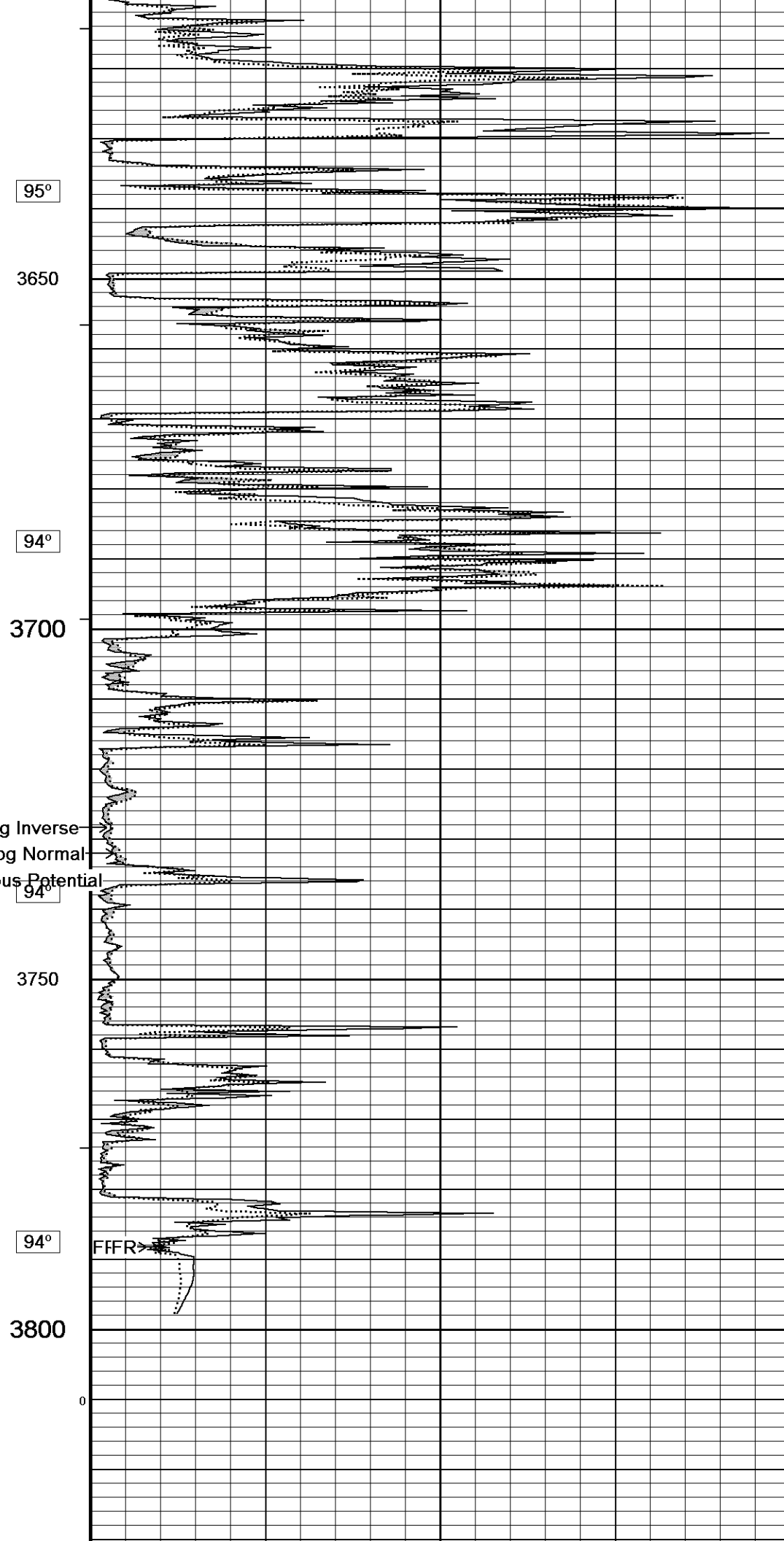
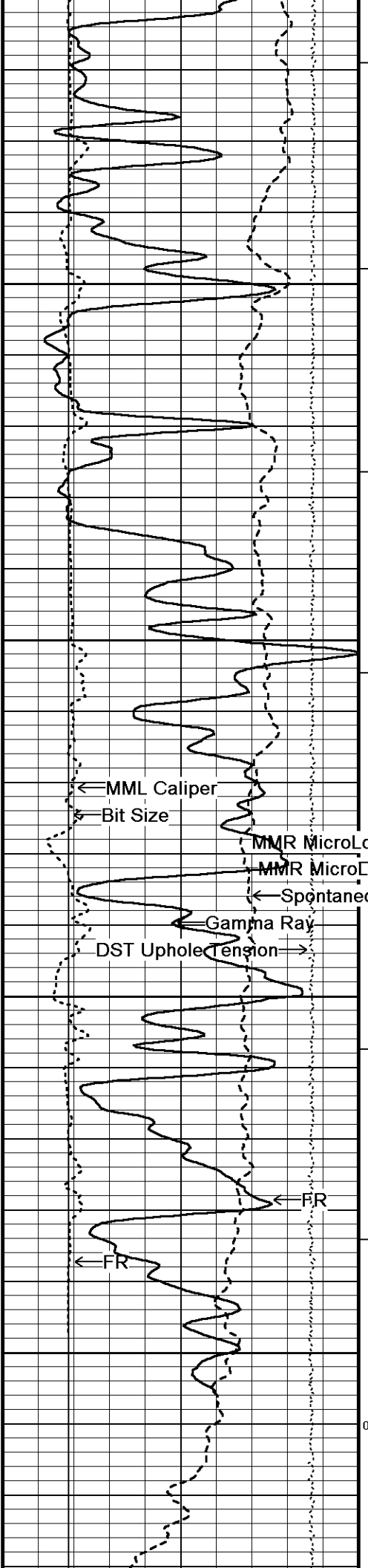
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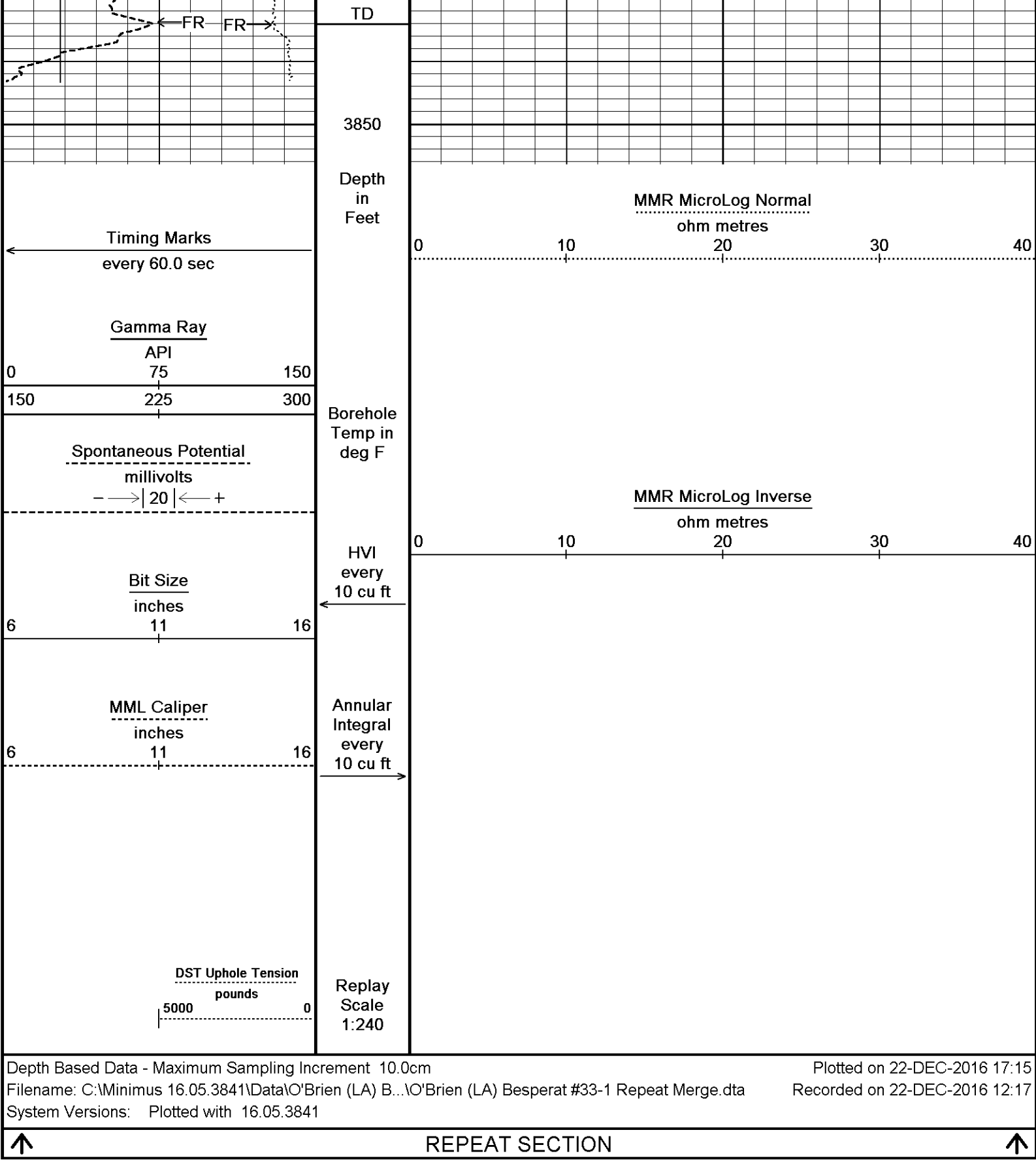
3550

95°

3600







Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\Minimus 16.05.3841\Data\O'Brien (LA) B...O'Brien (LA) Besperat #33-1 Repeat Merge.dta
System Versions: Plotted with 16.05.3841
Plotted on 22-DEC-2016 17:15
Recorded on 22-DEC-2016 12:17

BEFORE SURVEY CALIBRATION

C:\Minimus 16.05.3841\Data\O'Brien (LA) Besperat #33-1\O'Brien (LA) Besperat #33-1_001.dta

General Constants All 000			Last Edited on 22-DEC-2016,11:53		
General Parameters					
Mud Resistivity	0.290	ohm-metres			
Mud Resistivity Temperature	75.000	degrees F			
Water Level	0.000	feet			

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 Base Density Porosity
 Resistivity used Array Ind. Two Res Rt
 RWA Constant A 1.000
 RWA Constant M 2.000
 SW/APOR Tool Source 0.000

Down-hole Tension Calibration SMS 0

Field Calibration on 17-DEC-2016 05:43

Reading No	Measured	Calibrated (lbs)
1	16023.38	0.00
2	17442.64	490.00

Gamma Calibration MCG-C 123

Field Calibration on 20-DEC-2016 17:24

	Measured	Calibrated (API)
Background	73	50
Calibrator (Gross)	733	506
Calibrator (Net)	661	456

Gamma Calibration Tolerances MCG-C 123

Ratio 1.449  Counts/API

Gamma Constants MCG-C 123

Last Edited on 22-DEC-2016,10:24

Gamma Calibrator Number MCGGRCC141
 GRC-M Calibrator Jig in Use? NO
 Inactive Background Jig in Use? NO
 Mud Density 1.12 gm/cc
 Caliper Source for Processing Density Caliper
 Tool Position Eccentred
 Potassium Equivalence Chloride
 K Mud Concentration 0.00 %

High Resolution Temperature Calibration MCG-C 123

Field Calibration on 03-DEC-2016,14:52

	Measured	Calibrated(Deg F)
Lower	50.00	50.00
Upper	100.00	100.00

High Resolution Temperature Constants MCG-C 123

Last Edited on 22-SEP-2015,11:43

Pre-filter Length 11

SP Calibration MCG-C 123

Field Calibration on 03-DEC-2016 14:58

	Measured	Calibrated (mV)
Reference 1	100.9	100.0
Reference 2	-99.4	-99.9

Caliper Calibration MML-A 7

Base Calibration on 16-DEC-2016 17:16

Field Calibration on 21-DEC-2016 16:47

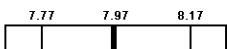
Base Calibration

Reading No	Measured	Calibrator Size (in)
1	14052	5.97
2	17400	7.98
3	20637	9.86
4	24492	11.88
5	0	0.00
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
7.05	7.07

Caliper Calibration Tolerances MML-A 7

Short Arm Field Cal. 7.95  in

Micro Normal and Micro Inverse Calibration MML-A 7

Base Calibration on 16-DEC-2016 17:25

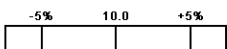
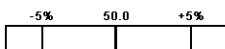
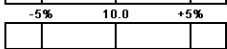
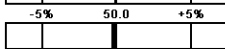
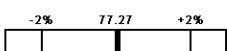
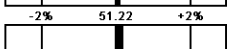
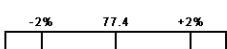
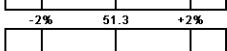
Field Check on 21-DEC-2016 16:46

Base Calibration

Channel	Measured		Calibrated (ohm-m)	
	Resistor 1	Resistor 2	Resistor 1	Resistor 2
Micro Normal	10.0	49.9	5.1	25.6
Micro Inverse	10.0	49.8	3.4	16.9

Channel	Base Check (ohm-m)	Field Check (ohm-m)
Micro Normal	77.4	77.4
Micro Inverse	51.3	51.3

Micro Normal & Micro Inverse Calibration Tolerance MML-A 7

Micro Normal Res. 1	10.0		ohm	Micro Normal Res. 2	49.9		ohm
Micro Inverse Res. 1	10.0		ohm	Micro Inverse Res. 2	49.8		ohm
Micro Normal Base Check	77.4		ohm-m				
Micro Inverse Base Check	51.3		ohm-m				
Micro Normal Field Check	77.4		ohm-m				
Micro Inverse Field Check	51.3		ohm-m				

Micro Normal and Micro Inverse Constants MML-A 7

Last Edited on 22-DEC-2016,10:24

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

Neutron Calibration MDN-A.B 66

Base Calibration on 03-DEC-2016,15:38

Field Check on 20-DEC-2016 17:31

Base Calibration

Ratio	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	3116	97	3714	110
Ratio	32.277		33.764	

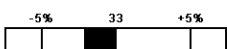
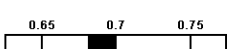
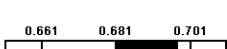
Field Calibrator at Base

Ratio	Calibrated (cps)
	2061 3028
Ratio	0.681

Field Check

Ratio	Calibrated (cps)
	2149 3082
Ratio	0.697

Neutron Calibration Tolerances MDN-A.B 66

Ratio	32.277	
Base Check	0.681	
Field Check	0.697	

Neutron Constants MDN-A.B 66

Last Edited on 22-DEC-2016,10:24

Neutron Source Id	P0204NN
Neutron Jig Number	NJ5736
Air Hole Processing	Legacy
Caliper Source for Processing	Density Caliper
Stand-off	0.00 inches
Mud Density	1.00 gm/cc
Limestone Sigma	7.10 cu

Limestone Sigma	4.26	cu
Dolomite Sigma	4.70	cu
Formation Pressure Source	None	
Formation Pressure	N/A	kpsi
Temperature Source	Constant Value	
Temperature	68.00	degrees F
Mud Salinity	0.00	kppm
Salinity Correction	Not Applied	
Formation Fluid Salinity Source	None	
Formation Fluid Salinity	N/A	kppm
Barite Mud Correction	Not Applied	

FE Calibration MFE-B.J 352		Base Calibration on 01-DEC-2016 15:21 Field Check on 20-DEC-2016 16:56	
Base Calibration			
	Measured	Calibrated (ohm-m)	
Reference 1	0.0	0.0	
Reference 2	963.5	126.8	
Base Check		281.3	
Field Check		281.5	

FE Calibration Tolerances MFE-B.J 352			
Reference 2	963.5	-3% 963.5 +3%	ohm
Base Check	281.3	-2% 281.3 +2%	ohm-m
Field Check	281.5	-2% 281.5 +2%	ohm-m

FE Constants MFE-B.J 352		Last Edited on 22-DEC-2016,10:23	
Running Mode	No Sleeve		
MFE K Factor	0.1268		
Borehole Correction Constants			
Sonde Position	0.5	inches	
Hole Size Source	Density Caliper		
Hole Size Constant Value	N/A	inches	
Rm Source	Global Value: Temperature Corrected		
Temp. for Rm Corr.	MCG External Temperature		

Sonic Constants MSS-A.A 55			Last Edited on 22-DEC-2016,10:23		
Maximum Boundary Contrast	100.00	micro-sec/ft			
Fluid Transit Time	189.00	micro-sec/ft			
Limestone Transit Time	47.50	micro-sec/ft			
Sandstone Transit Time	55.50	micro-sec/ft			
Dolomite Transit Time	43.50	micro-sec/ft			
Sonic used for Porosities	3-5' Compensated Sonic				
Correction for Sonde Skew	Applied				
Cycle Stretch Algorithm	Applied				
MN3FT	N/A	micro-sec			
MX3FT	N/A	micro-sec			
Hunt-Raymer Constant	83.13	micro-sec/ft			
Sonde Mode	Compensated				
Hole Type	Open Hole				
Sonde Parameters					
	Measured	Calibrated			
Offset	N/A	0.0000			
Free Pipe	N/A	N/A			
Peak Amplitude Source	N/A				
Waveform	Start Time (micro-sec)	Width (micro-sec)	Pre Gain	Start Gain	Discriminator (mV)
3'	N/A	N/A	N/A	N/A	N/A
4'	N/A	N/A	N/A	N/A	N/A
5'	N/A	N/A	N/A	N/A	N/A

5'	N/A	N/A	N/A	N/A	N/A
6'	N/A	N/A	N/A	N/A	N/A

Processed Fixed Gate Parameters

Waveform Used For Processing	N/A			
Start Time (micro-sec)	End Time (micro-sec)	Discriminator (mV)	N/A	
N/A	N/A	N/A		
N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	

Full Waveform Parameters

Use 3' Waveform to derive TR	N/A	
Use 4' Waveform to derive TR	N/A	
Use 5' Waveform to derive TR	N/A	
Use 6' Waveform to derive TR	N/A	
3' Waveform Discriminator Level	N/A	mV
4' Waveform Discriminator Level	N/A	mV
5' Waveform Discriminator Level	N/A	mV
6' Waveform Discriminator Level	N/A	mV
Waveform Discriminator Filter	N/A	
Semblance Window Width	N/A	micro-sec
Sonic Despiker	N/A	N/A

Induction Calibration MAI-A.A 111

Base Calibration on 05-AUG-2014,09:34
Field Check on 20-DEC-2016 16:48

Base Calibration

Test Loop Calibration	Measured		Calibrated (mmho/m)	
Channel	Low	High	Low	High
1	17.6	473.6	9.3	966.2
2	6.4	385.9	7.6	821.4
3	3.2	264.0	5.2	566.0
4	2.1	135.5	2.6	279.2

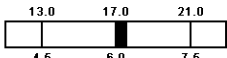
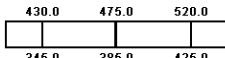
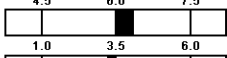
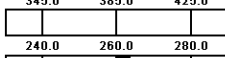
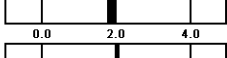
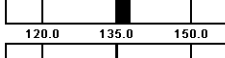
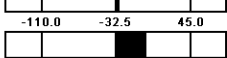
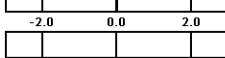
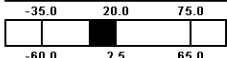
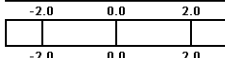
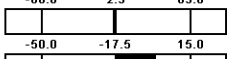
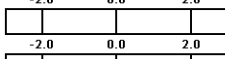
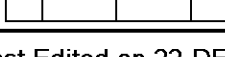
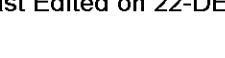
Array Temperature 23.0 Deg F

Test Loop Calibration Verified 03-DEC-2016,14:48

Channel	Base Check (mmho/m)		Field Check (mmho/m)	
	Low	High	Low	High
1	12.1	3873.0	9.5	3868.2
2	29.8	3528.1	27.7	3523.7
3	29.1	3021.3	27.3	3017.3
4	19.1	2058.5	18.0	2055.4
Deep	17.7	1962.1	16.5	1959.0
Medium	43.1	3976.4	40.8	3971.5
Shallow	44.4	5232.7	41.4	5226.9

Array Temperature 65.8 58.5 Deg F

Induction Calibration Tolerances MAI-A.A 111

Low Conductivity 1	17.6		mmho/m	High Conductivity 1	473.6		mmho/m
Low Conductivity 2	6.4		mmho/m	High Conductivity 2	385.9		mmho/m
Low Conductivity 3	3.2		mmho/m	High Conductivity 3	264.0		mmho/m
Low Conductivity 4	2.1		mmho/m	High Conductivity 4	135.5		mmho/m
Background Vx 1	0.0		mmho/m	Phase Check Loop 1	0.0		%
Background Vx 2	0.0		mmho/m	Phase Check Loop 2	0.0		%
Background Vx 3	0.0		mmho/m	Phase Check Loop 3	0.0		%
Background Vx 4	0.0		mmho/m	Phase Check Loop 4	0.0		%

Induction Constants MAI-A.A 111

Last Edited on 22-DEC-2016,10:23

Induction Model RtAP-WBM

Borehole Correction Constants

Tool Centred	No	
Hole Size Source	Density Caliper	
Hole Size Constant Value	N/A	inches
Stand-off Type	Fins	
Stand-off	0.50	inches
Number of Fins on Stand-off	8.0000	
Stand-off Fin Angle	45.00	degrees
Stand-off Fin Width	0.5000	inches
Rm Source	Global Value: Temperature Corrected	
Temp. for Rm Corr.	MCG External Temperature	

Squasher Start	0.0020	mhos/metre
Squasher Offset	N/A	mhos/metre

Borehole Normalisation

DRM1	0.0000	DRC1	0.0000
DRM2	0.0000	DRC2	0.0000
MRM1	0.0000	MRC1	0.0000
MRM2	0.0000	MRC2	0.0000
SRM1	0.0000	SRC1	0.0000
SRM2	0.0000	SRC2	0.0000

Calibration Site Corrections

Channel 1	0.00	mmhos/metre
Channel 2	0.00	mmhos/metre
Channel 3	0.00	mmhos/metre
Channel 4	0.00	mmhos/metre

Symmetrised Receiver Gains

Receiver 1	1.00
Receiver 2	1.00
Receiver 3	1.00
Receiver 4	1.00

Apparent Porosity and Water Saturation Constants

Archie Constant (A)	1.00	
Cementation Exponent (M)	2.00	
Saturation Exponent (N)	2.00	
Saturation of Water for Apor	100.00	percent
Resistivity of Water for Apor and Sw	0.05	ohm-m
Resistivity of Mud Filtrate for Sw	0.00	ohm-m
Source for Rt	0.00	
Source for Rxo	0.00	

High Resolution Temperature Calibration MAI-A.A 111

Field Calibration on 03-DEC-2016,14:51

	Measured	Calibrated(Deg F)
Lower	10.00	10.00
Upper	100.00	100.00

High Resolution Temperature Constants MAI-A.A 111

Last Edited on 26-JUN-2014,15:06

Pre-filter Length	11
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Photo Density Calibration MPD-B 104

Base Calibration on 03-DEC-2016 14:06

Field Check on 20-DEC-2016 17:04

Density Calibration

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Background	1135	1315		
Reference 1	50307	24205	59556	30836
Reference 2	20296	2434	24941	2541

Field Check at Base

1134.8	1314.6
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Field Check

1134.7	1319.5
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PE Calibration

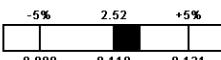
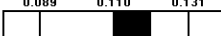
Base Calibration	Measured	Calibrated
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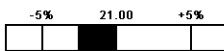
Base Calibration	WS	WH	Ratio	Ratio
Background	208	1012		
Reference 1	21183	50127	0.427	0.371
Reference 2	5908	20162	0.298	0.272

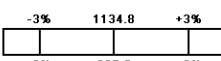
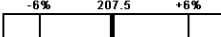
Field Check at Base
207.5 1012.2

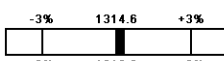
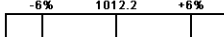
Field Check
206.7 1011.6

Photo Density Calibration Tolerances MPD-B 104

Near Density Ratio 2.57 
PE Calibration 0.121 

Far Density Ratio 20.45 

Near Den. Field Check 1134.7 
PE WS Field Check 206.7 

Far Den. Field Check 1319.5 
PE WH Field Check 1011.6 

Density Constants MPD-B 104

Last Edited on 22-DEC-2016,10:24

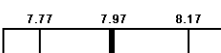
Density Source Id	P50557B	
Nylon Calibrator Number	DNCE695	
Aluminium Calibrator Number	DACD698	
Density Shoe Profile	8 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.12	gm/cc
Mud Density Z/A Multiplier	1.11	
Mud Filtrate Density	1.00	gm/cc
Dry Hole Mud Filtrate Density	1.00	gm/cc
DNCT	0.00	gm/cc
CRCT	0.00	gm/cc
Density Z/A Correction	Hybrid	
Precision Enhanced Density Processing	Not Applied	
Matrix Density (gm/cc)	Depth (ft)	
2.71	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	

Caliper Calibration MPD-B 104

Base Calibration on 01-DEC-2016 17:42
Field Calibration on 20-DEC-2016 16:58

Base Calibration	Measured	Calibrator Size (in)
Reading No		
1	14257	3.99
2	23231	5.98
3	32062	7.97
4	40288	9.86
5	49313	11.92
6	N/A	N/A
Field Calibration	Measured Caliper (in)	Actual Caliper (in)
	7.95	7.97

Caliper Calibration Tolerances MPD-B 104

Short Arm Field Cal. 7.95  in

DOWNHOLE EQUIPMENT

C:\Minimus 16.05.3841\Data\O'Brien (LA) Besperat #33-1\O'Brien (LA) Besperat #33-1_002.dta

Cablehead, 11 pin
CBH-C 0 LG: 2.40 ft WT: 24.3 lb OD: 2.244 in

Compact Comms Gamma
MCG-C 123 LG: 8.70 ft WT: 63.9 lb OD: 2.244 in

Compact Micro-log
MML-A 7 LG: 7.97 ft WT: 81.6 lb OD: 2.244 in

Compact Neutron
MDN-A.B 66 LG: 5.04 ft WT: 50.7 lb OD: 2.244 in

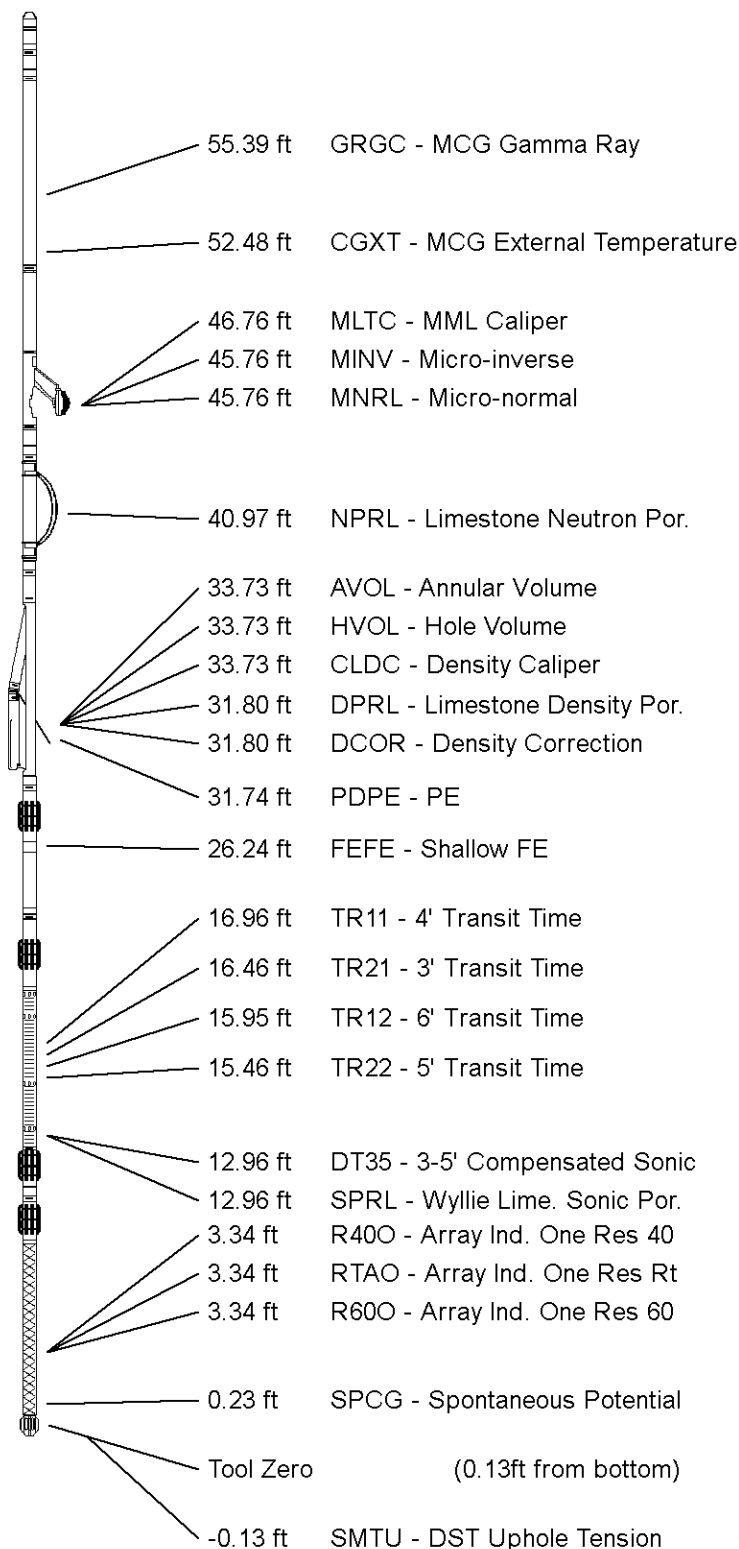
Compact Density/Caliper
MPD-B 104 LG: 9.59 ft WT: 90.4 lb OD: 2.449 in

Compact Focussed Electric
MFE-B.J 352 LG: 6.05 ft WT: 48.5 lb OD: 2.244 in

Compact Sonic
MSS-A.A 55 LG: 12.52 ft WT: 72.8 lb OD: 2.244 in

Compact Induction
MAI-A.A 111 LG: 10.81 ft WT: 48.5 lb OD: 2.244 in

Total Length: 63.07 ft Weight: 480.6 lb



All measurements relative to tool zero.

COMPANY	O'BRIEN RESOURCES, LLC.
WELL	BESPERAT #33-1
FIELD	WILDCAT
PROVINCE/COUNTY	RUSH
COUNTRY/STATE	U.S.A. / KANSAS

Elevation Kelly Bushing	2065	feet	First Reading	3788.00	feet
Elevation Drill Floor	2063	feet	Depth Driller	3836.00	feet
Elevation Ground Level	2057	feet	Depth Logger	3834.00	feet



