



Weatherford

MICRORESISTIVITY LOG

COMPANY			BEREXCO, LLC.		
WELL			KANE UNIT #4-14		
FIELD			ALFORD		
PROVINCE/COUNTY			KIOWA		
COUNTRY/STATE			U.S.A. / KANSAS		
LOCATION			1560' FSL & 1380' FWL		
SEC 14	TWP 30S	RGE 19W	Other Services		MPD/MDN
Latitude		MAI/MFE			
Longitude		MSS			
API Number		15-097-21839			
Permanent Datum GL, Elevation 2215 feet					Elevations: KB 2227.00 DF 2225.00 GL 2215.00
Log Measured From KB, 12.00 feet above Permanent Datum					
Drilling Measured From KB					
Date	16-DEC-2018				
Run Number	ONE				
Service Order	4558-232171566				
Depth Driller	5300.00				feet
Depth Logger	5299.00				feet
First Reading	5251.00				feet
Last Reading	4000.00				feet
Casing Driller	685.00				feet
Casing Logger	685.00				feet
Bit Size	7.875				inches
Hole Fluid Type	CHEMICAL				
Density / Viscosity	9.30 lb/USg		52.00 CP		
PH / Fluid Loss	11.00		8.80 ml/30Min		
Sample Source	FLOWLINE				
Rm @ Measured Temp	0.63 @ 75.0				ohm-m
Rmf @ Measured Temp	0.50 @ 75.0				ohm-m
Rmc @ Measured Temp	0.76 @ 75.0				ohm-m
Source Rmf / Rmc	CALC		CALC		
Rm @ BHT	0.44 @108.0		ohm-m		
Time Since Circulation	5 HOURS				
Max Recorded Temp	108.00		deg F		
Equipment / Base	13096		LIB		
Recorded By	ADAM SILL				
Witnessed By	CLINT BLEIER				

BOREHOLE RECORD					Last Edited: 16-DEC-2018 15:49
Bit Size inches		Depth From feet		Depth To feet	
7.875		685.00		5300.00	
CASING RECORD					
Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft	
SURFACE	8.625	0.00	685.00	24.00	

REMARKS
- SOFTWARE ISSUE: WLS 18.03.9344.
- 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: 2060 CU.FT.
- ANNULAR HOLE VOLUME WITH 5.5 INCH PRODUCTION CASING FROM TD TO 4000 FEET: 221 CU.FT.

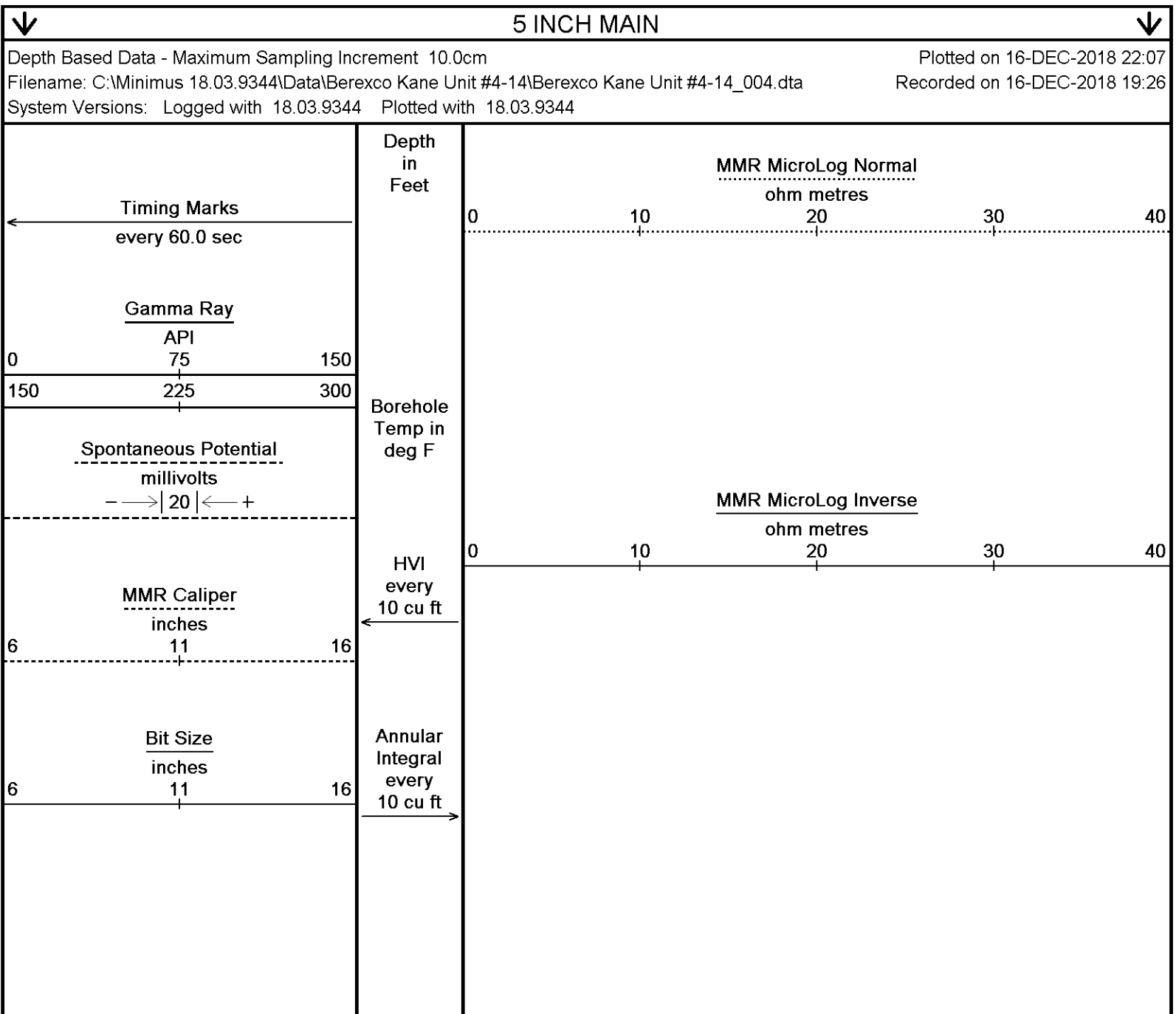
- RIG: FOSSIL DRILLING #3.

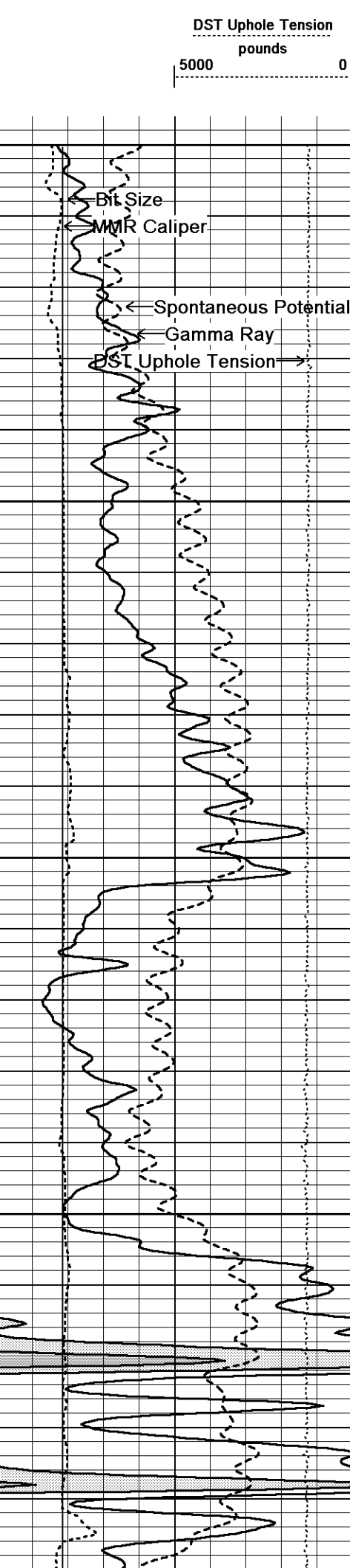
- ENGINEER: A. SILL.

- OPERATOR: B. TOVAR, B. COPELAND.

**** SP IS CYCLIC DUE TO AN UNKNOWN CAUSE, CHECKED SP FISH PLACEMENT AND CHECKED RIG FOR ANY KIND OF STRAY VOLTAGE AND COULD NOT FIND A CAUSE. ****

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.





Replay
Scale
1:240

4000

MMR MicroLog Inverse
MMR MicroLog Normal

99°

4050

99°

400

4100

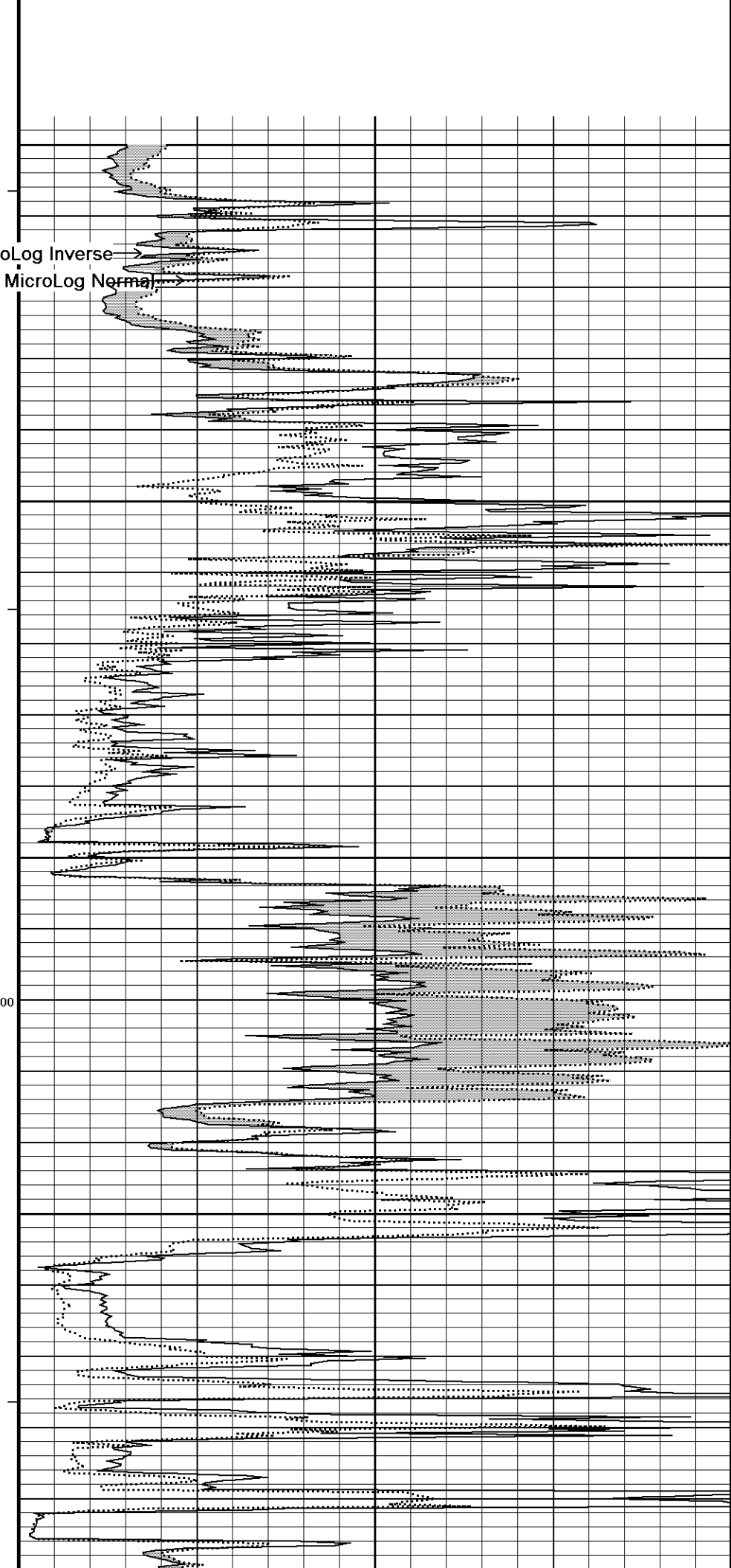
200

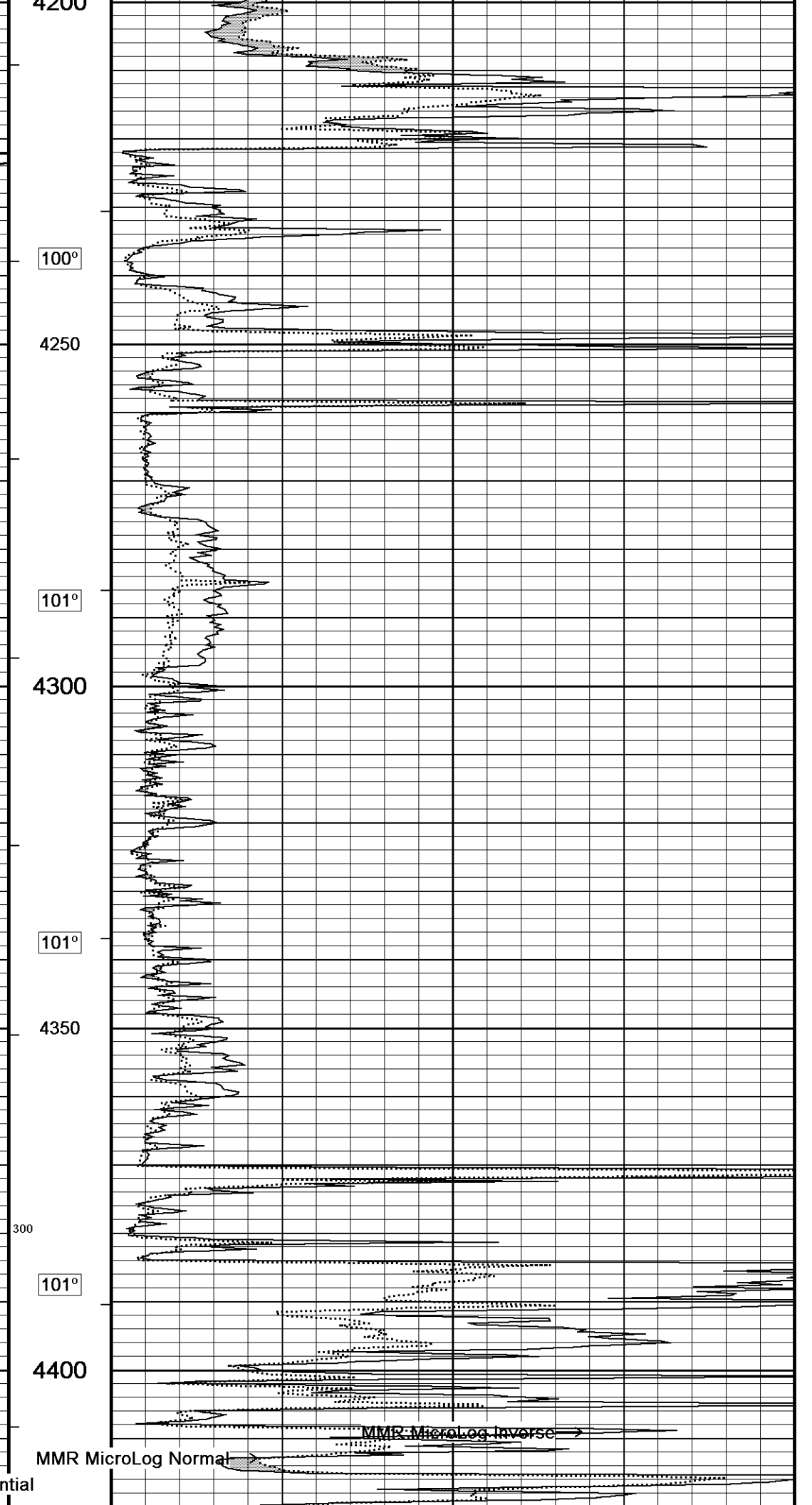
99°

4150

100°

4200





100°

101°

101°

101°

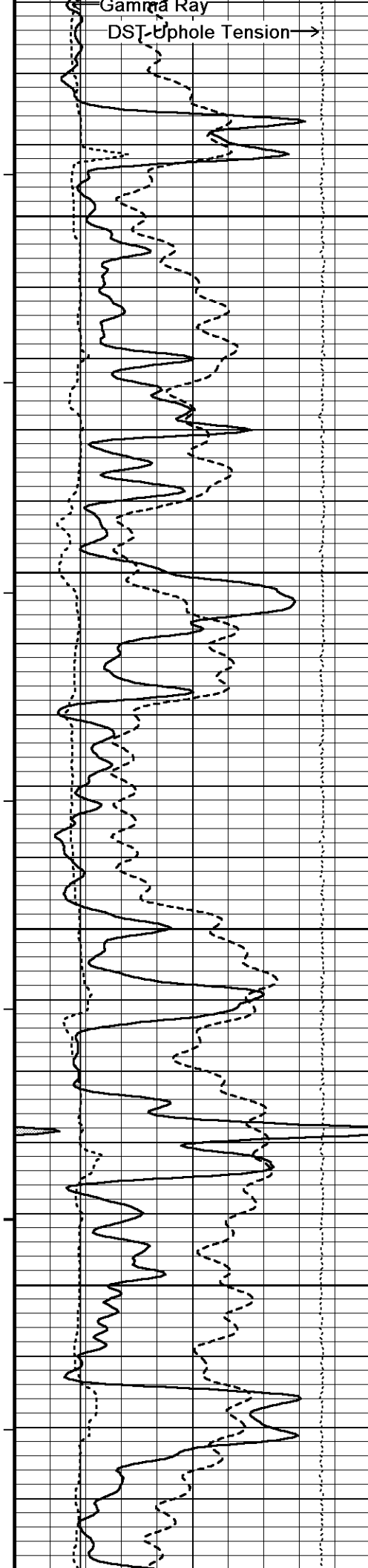
Bit Size

MMR Caliper

Spontaneous Potential

MMR MicroLog Normal

MMR MicroLog Inverse



101°

4450

101°

4500

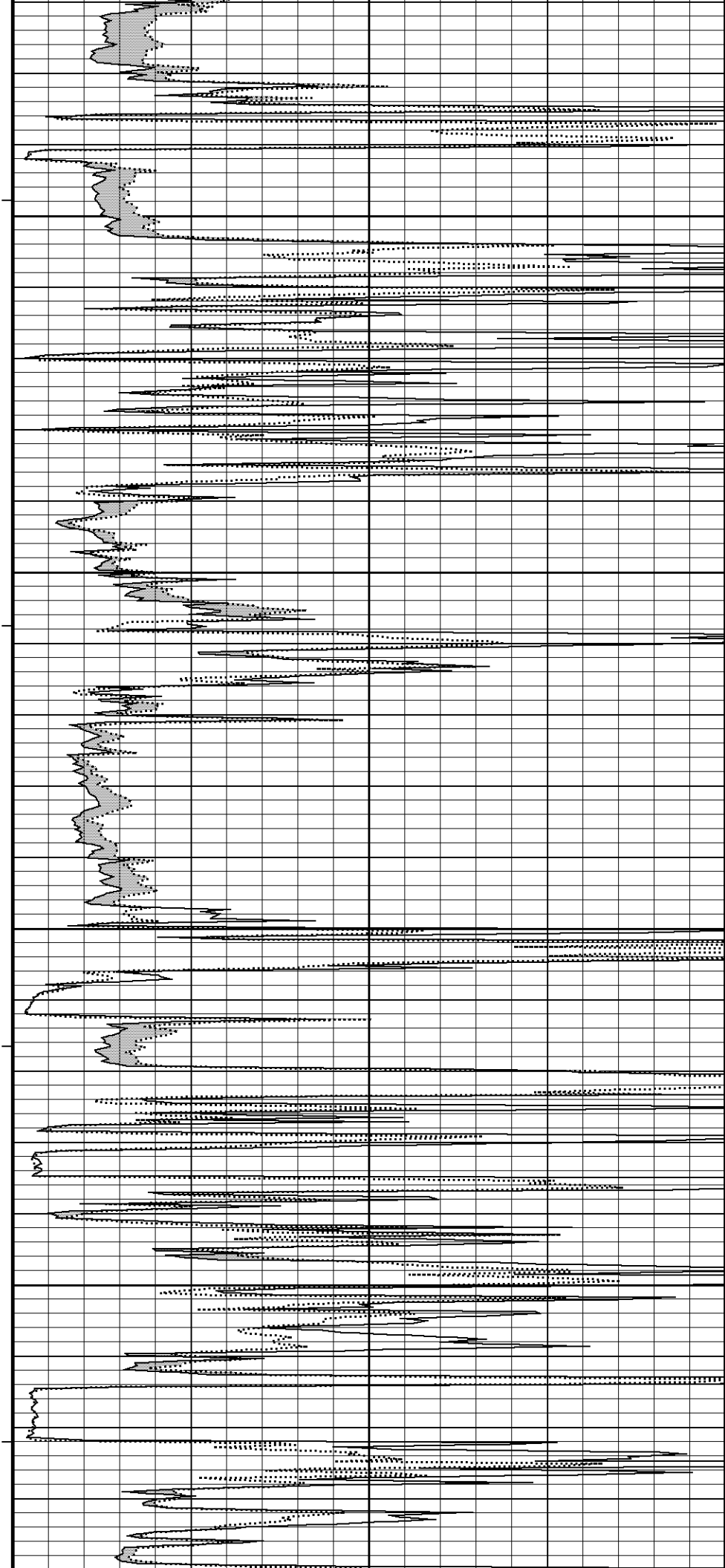
102°

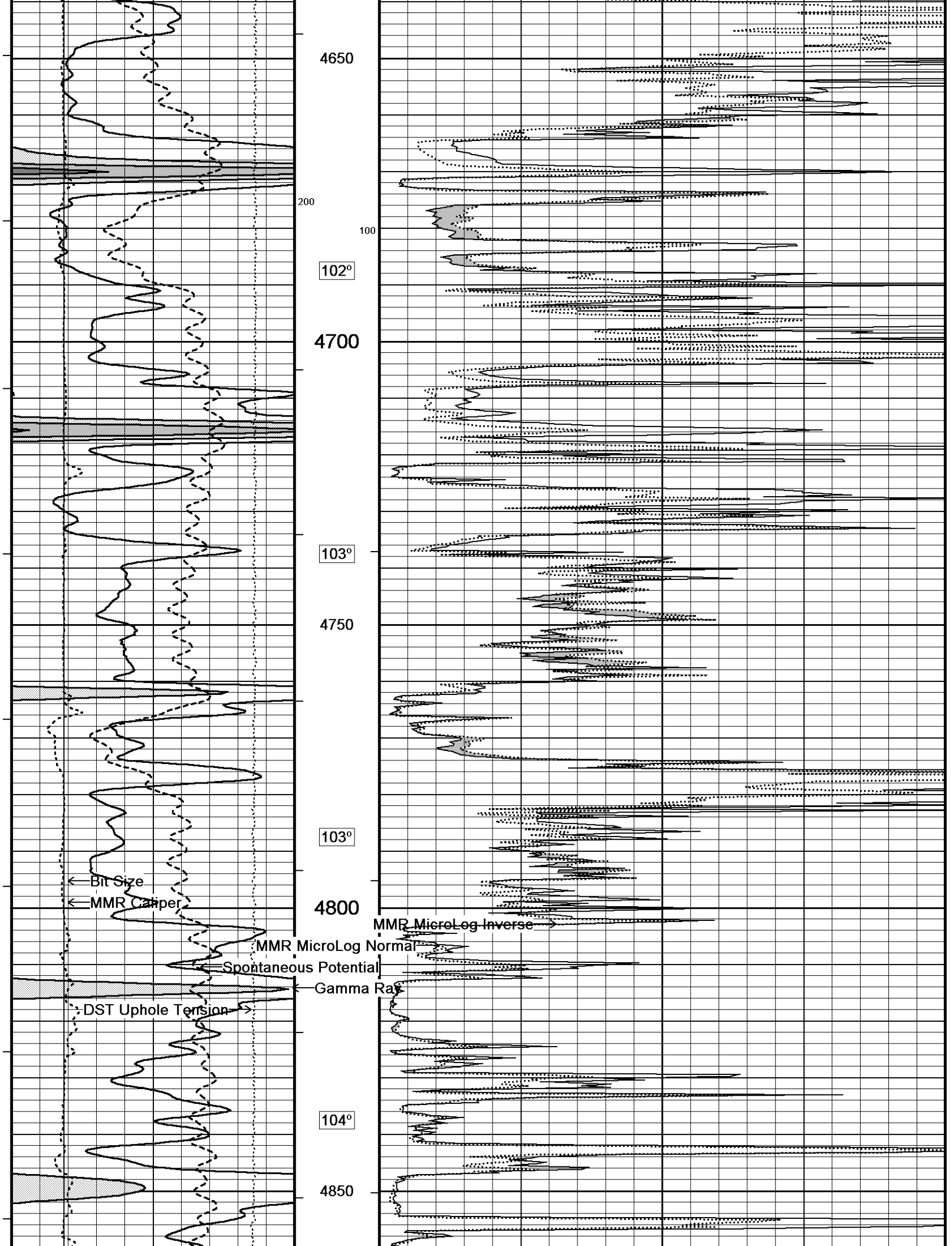
4550

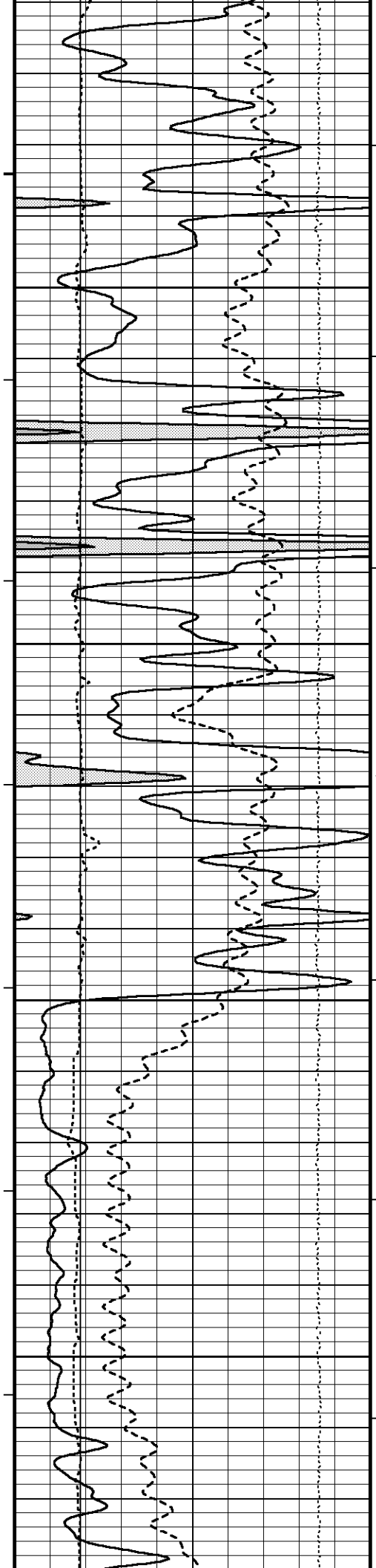
102°

4600

102°







105°

4900

105°

4950

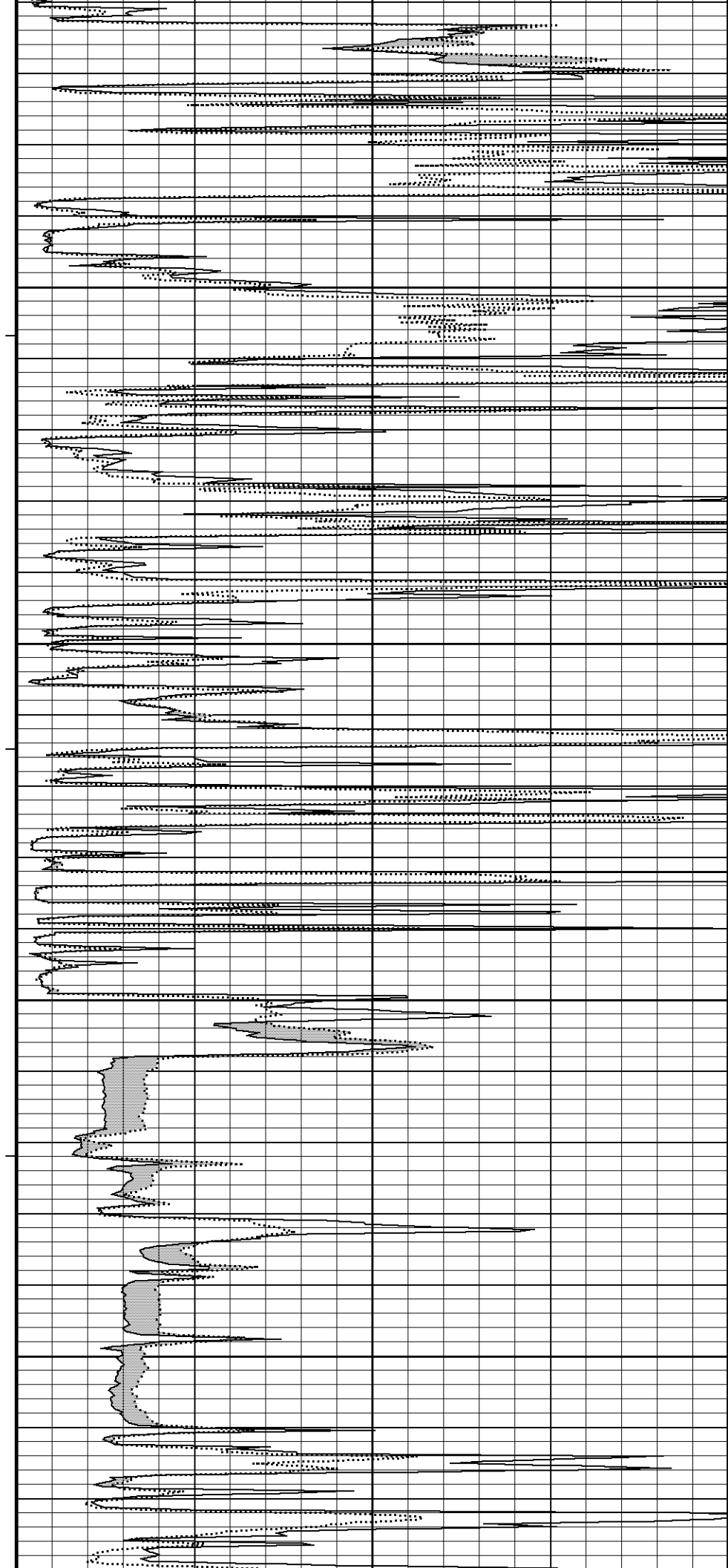
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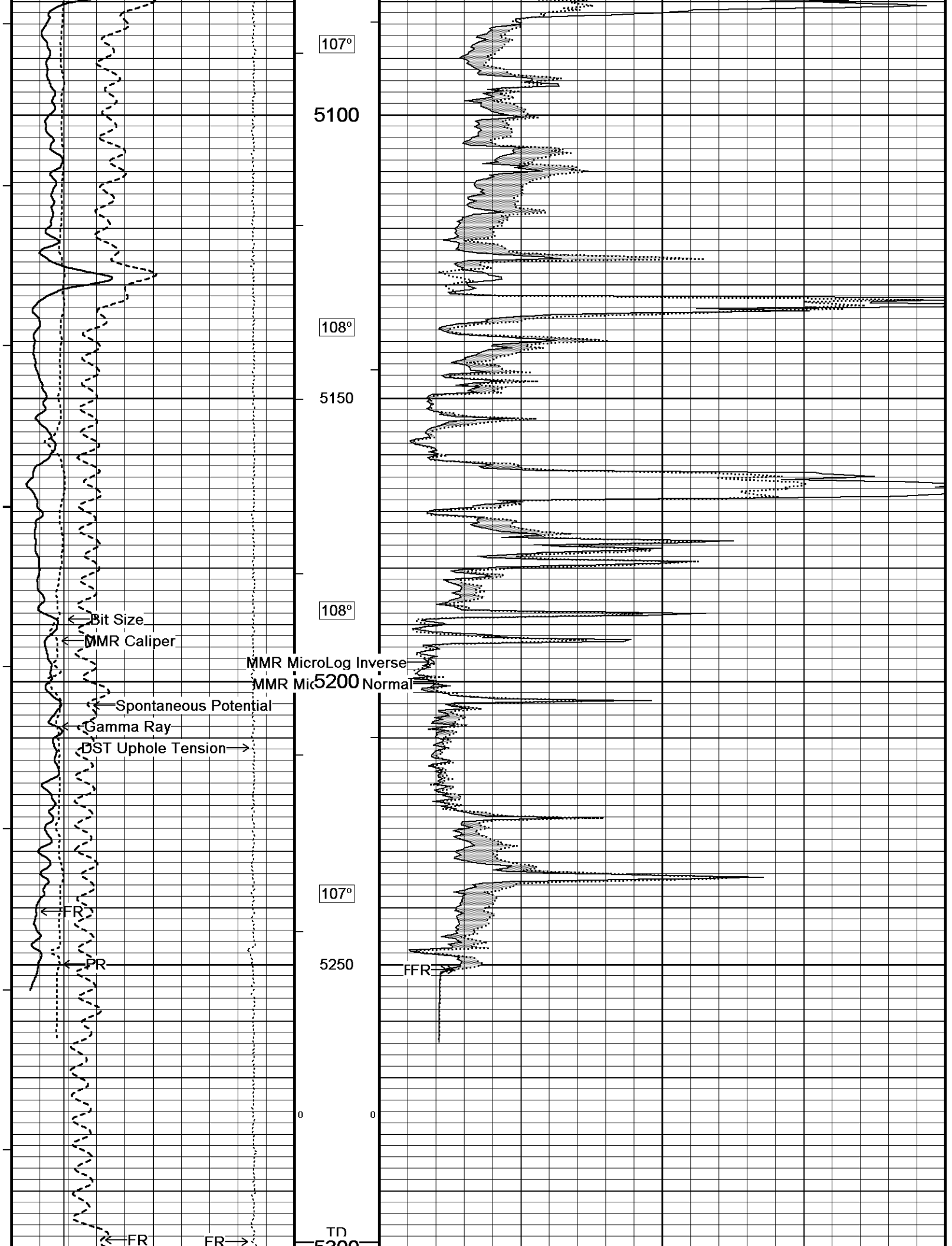
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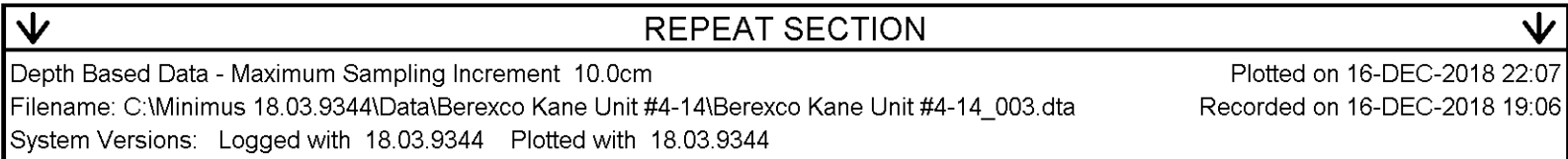
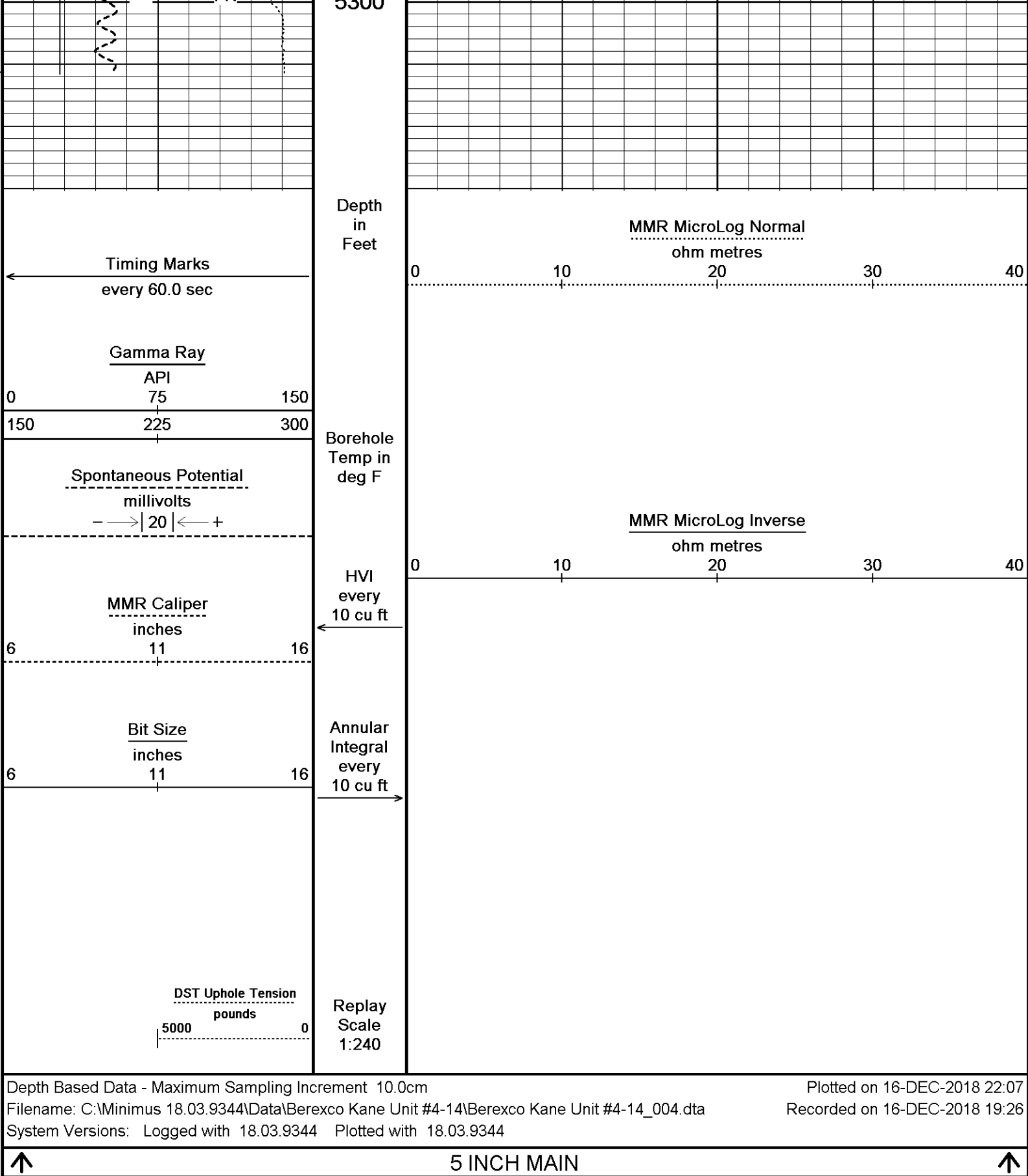
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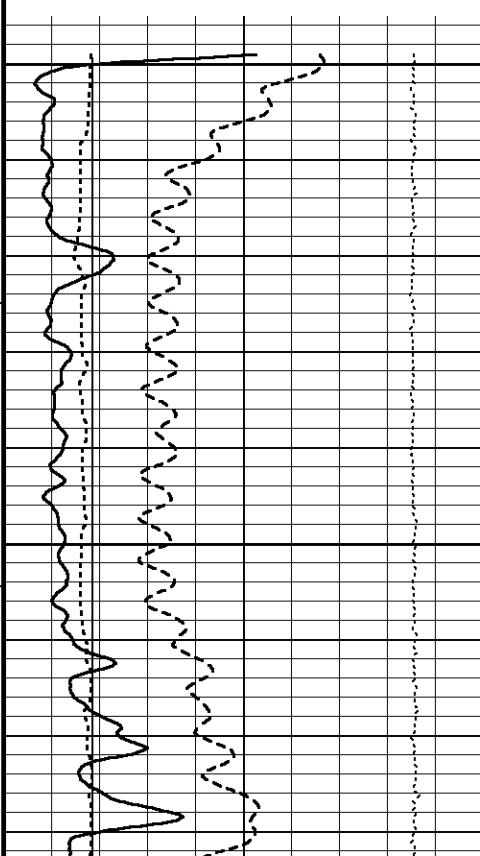
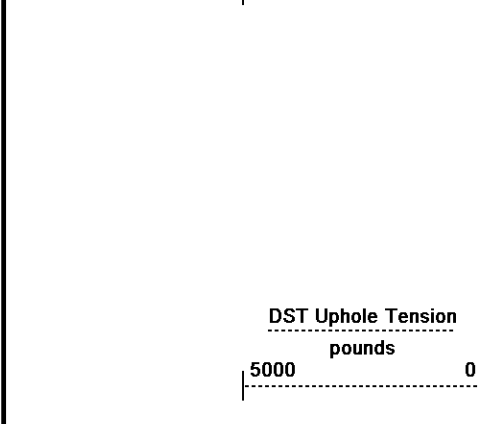
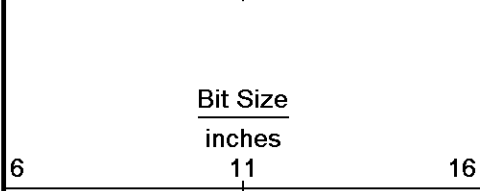
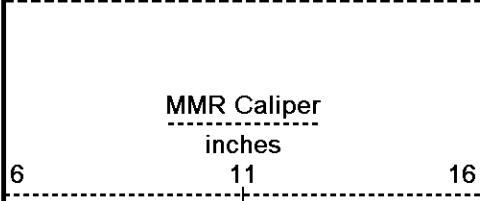
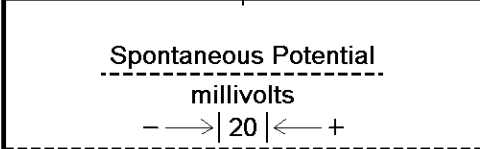
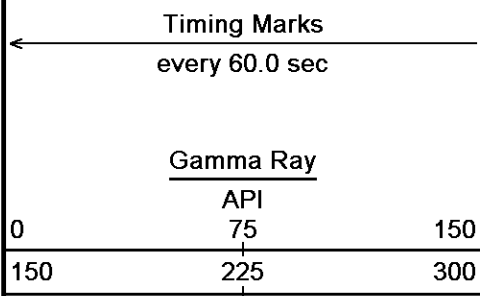
107°

5050









Borehole
Temp in
deg F

HVI
every
10 cu ft

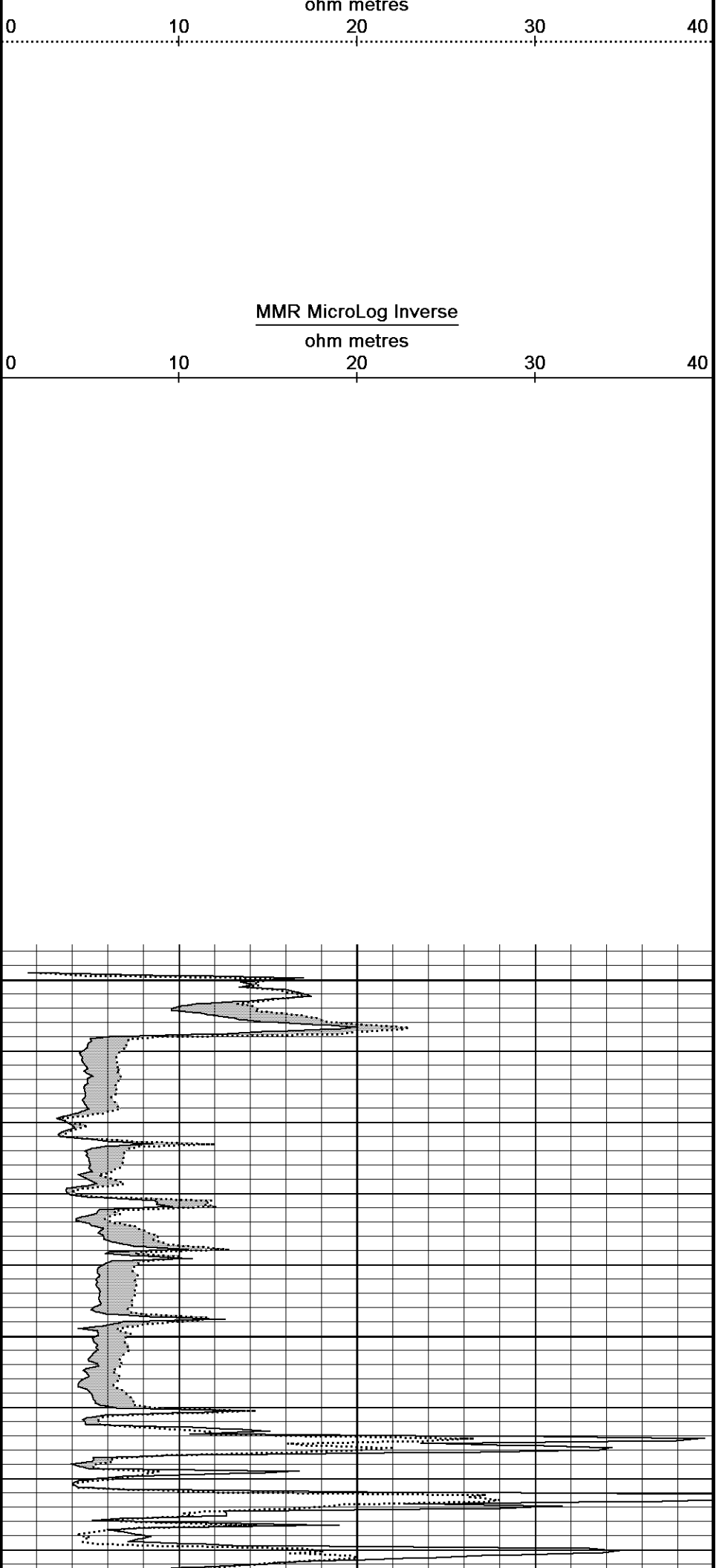
Annular
Integral
every
10 cu ft

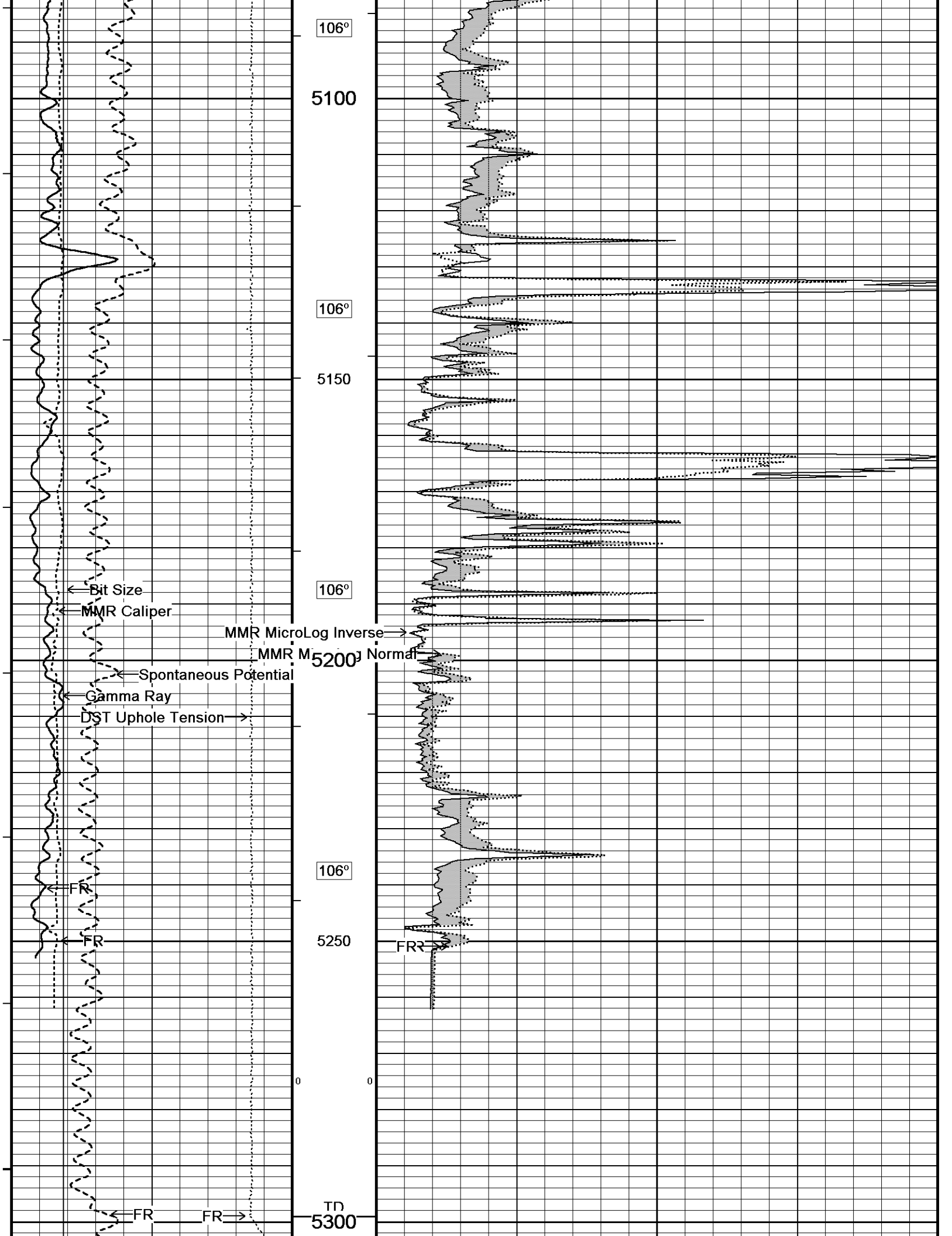
Replay
Scale
1:240

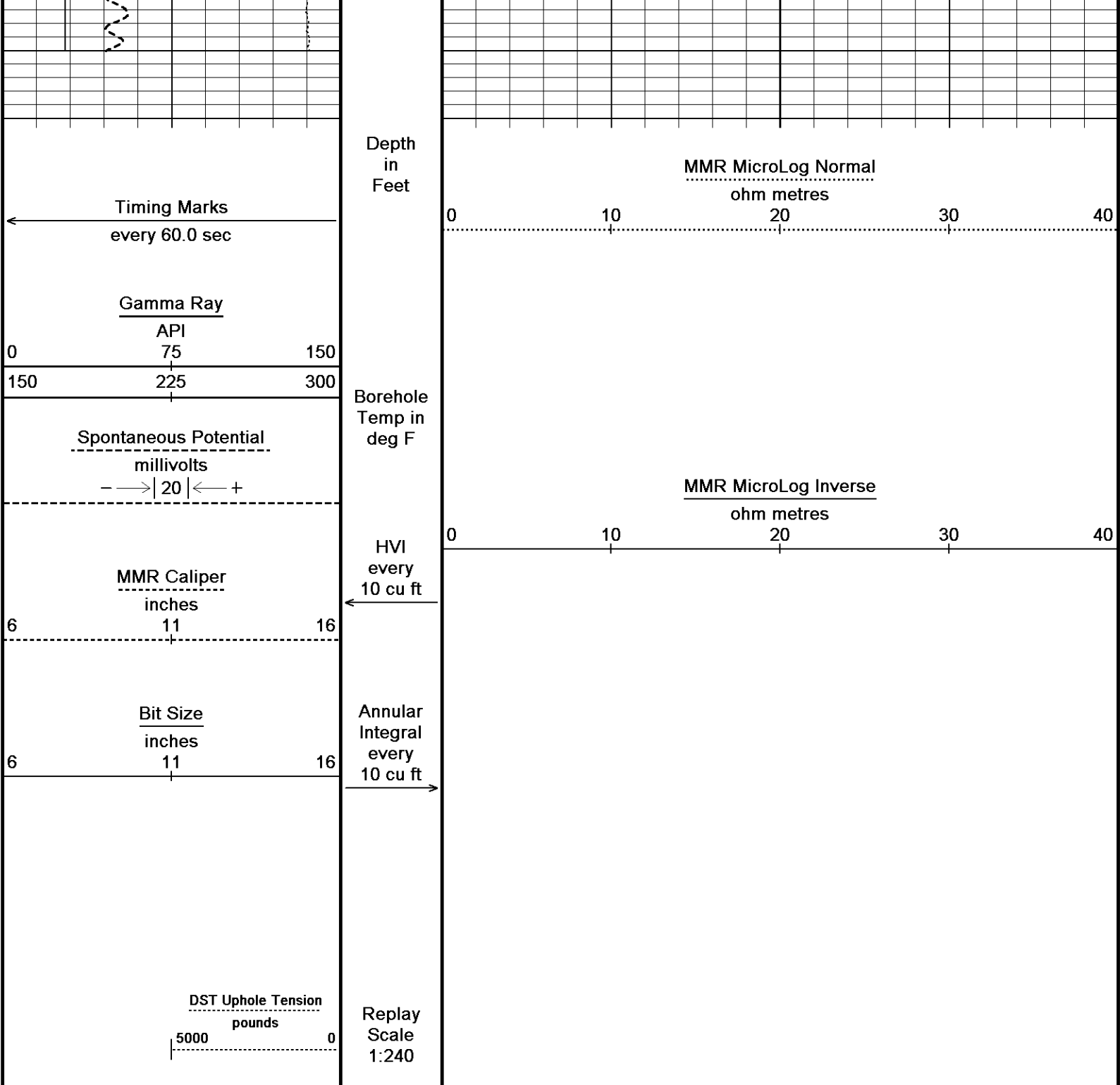
5000

105°

5050







Depth Based Data - Maximum Sampling Increment 10.0cm
 Filename: C:\Minimus 18.03.9344\Data\Berexco Kane Unit #4-14\Berexco Kane Unit #4-14_003.dta
 System Versions: Logged with 18.03.9344 Plotted with 18.03.9344

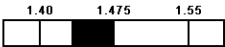
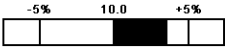
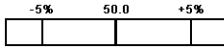
Plotted on 16-DEC-2018 22:07
 Recorded on 16-DEC-2018 19:06

↑

REPEAT SECTION

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BEFORE SURVEY CALIBRATION		
C:\Minimus 18.03.9344\Data\Berexco Kane Unit #4-14\Berexco Kane Unit #4-14_003.dta		
General Constants All 000		Last Edited on 16-DEC-2018,18:26
General Parameters		
Mud Resistivity	0.630	ohm-metres
Mud Resistivity Temperature	75.000	degrees F
Water Level	0.000	feet
Borehole Fluid Processing	Wet Hole	
Hole/Annular Volume and Differential Caliper Parameters		

HVOL Method HVOL Caliper 1 HVOL Caliper 2 Annular Volume Diameter Caliper for Differential Caliper		Single Caliper Density Caliper N/A 5.500 Density Caliper		inches	
Rwa Parameters Porosity used Resistivity used RWA Constant A RWA Constant M SW/APOR Tool Source		Crossplot Porosity Array Ind. Two Res Rt 0.620 2.150 0.000			
Down-hole Tension Calibration SMS 0					
Reading No 1 2		Measured 15452.93 16827.81		Calibrated (lbs) 0.00 527.00	
Field Calibration on 16-DEC-2018 18:04					
SP Calibration MCG-D.K 443					
		Measured 100.8 -98.4		Calibrated (mV) 99.9 -99.9	
Field Calibration on 10-DEC-2018 15:37					
High Resolution Temperature Calibration MCG-D.K 443					
		Measured 50.00 212.00		Calibrated(Deg F) 50.00 212.00	
Field Calibration on 12-OCT-2018,05:20					
High Resolution Temperature Constants MCG-D.K 443					
Pre-filter Length		11			
Last Edited on 12-OCT-2018,05:20					
Gamma Calibration MCG-D.K 443					
		Measured 105 758 653		Calibrated (API) 74 530 456	
Field Calibration on 16-DEC-2018 12:32					
Gamma Calibration Tolerances MCG-D.K 443					
Ratio		1.431		 Counts/API	
Gamma Constants MCG-D.K 443					
		MCGGRCC141			
Gamma Calibrator Number GRC-M Calibrator Jig in Use? Inactive Background Jig in Use? Mud Density Caliper Source for Processing Tool Position Potassium Equivalence K Mud Concentration		NO NO 1.12 Density Caliper Eccentred Chloride 0.00		gm/cc %	
Last Edited on 16-DEC-2018,15:50					
Micro Normal and Micro Inverse Calibration MMR-B.A 91					
		Resistor 1 (ohm) 10.0		Resistor 2 (ohm) 50.0	
Base Calibration					
		Measured 10.4 9.9		Calibrated (ohm-m) 5.1 3.4	
Micro Normal Micro Inverse					
		Base Check (ohm-m) 93.9 62.3		Field Check (ohm-m) 93.9 62.3	
Channel Micro Normal Micro Inverse					
Base Calibration on 04-DEC-2018 12:12 Field Check on 16-DEC-2018 12:15					
Micro Normal & Micro Inverse Calibration Tolerance MMR-B.A 91					
Micro Normal Res. 1		10.4		 ohm	
Micro Normal Res. 2		49.9		 ohm	

Micro Inverse Res. 1	9.9		ohm	Micro Inverse Res. 2	49.4		ohm
Micro Normal Base Check	93.9		ohm-m				
Micro Inverse Base Check	62.3		ohm-m				
Micro Normal Field Check	93.9		ohm-m				
Micro Inverse Field Check	62.3		ohm-m				

Micro Normal and Micro Inverse Constants MMR-B.A 91

Last Edited on 13-APR-2018,05:04

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	0.0000 inches

Caliper Calibration MMR-B.A 91

Base Calibration on 04-DEC-2018 12:06

Field Calibration on 16-DEC-2018 12:14

Base Calibration		
Reading No	Measured	Calibrator Size (in)
1	14099	5.98
2	17485	7.97
3	20790	9.86
4	24525	11.92
5	0	0.00
6	N/A	N/A

Field Calibration	Measured Caliper (in)	Actual Caliper (in)
	7.95	7.97

Caliper Calibration Tolerances MMR-B.A 91

Short Arm Field Cal.	7.95		in
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Micro-Resistivity Caliper Constants MMR-B.A 91

Sonde Configuration	Resistivity Mode
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Micro Laterolog Calibration MMR-B.A 91

Base Calibration on 31-DEC-1999 00:00

Field Check on 31-DEC-1999 00:00

	Resistor 1 (ohm)	Resistor 2 (ohm)
	0.0	0.0
Base Calibration	Measured	Calibrated (ohm-m)
	Ref 1 Ref 2	Ref 1 Ref 2
	0.0 0.0	0.0 0.0
	Base Check (ohm-m)	Field Check (ohm-m)
	0.0	0.0

Micro Laterolog Constants MMR-B.A 91

Pad Type	6 in Solid Nylon B23059
Standoff Offset	0.0000 inches
Micro Laterolog K Factor	0.0128
Micro Laterolog Rm K Factor	N/A
Mudcake Thickness Correction Constants	
Mud Cake Source	Constant Value
Mud Cake Thickness	0.4000 inches
Mud Cake Thickness Caliper	
Mud Cake Resistivity	0.1500 ohm-m
Mud Cake Resistivity Temp.	20.00 Degrees C
Mud Cake Resistivity Source	Constant Value
Temp. for Rmc Corr.	MCG External Temperature

Neutron Calibration MDN-B.A 292

Base Calibration on 04-DEC-2018,13:14

Field Check on 16-DEC-2018 12:19

Base Calibration		
	Measured	Calibrated (cps)
	Neop For	Neop For

	Near	Far	Near	Far
	2910	91	3714	110
Ratio	31.871		33.764	
Field Calibrator at Base			Calibrated (cps)	
			2207	3209
Ratio			0.688	
Field Check			Calibrated (cps)	
			2208	3237
Ratio			0.682	

Neutron Calibration Tolerances MDN-B.A 292				
Ratio	31.871	-5% 33 +5%		
Base Check	0.688	0.65 0.7 0.75		
Field Check	0.682	0.668 0.688 0.708		

Neutron Constants MDN-B.A 292			Last Edited on 16-DEC-2018,15:50		
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			
Sandstone 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 04-DEC-2018 11:51 Field Check on 16-DEC-2018 12:06	
	Resistor 1 (ohm)	Resistor 2 (ohm)	
	0.0	1000.0	
Base Calibration			
	Measured	Calibrated (ohm-m)	
Reference 1	0.0	0.0	
Reference 2	982.1	126.8	
Base Check		276.0	
Field Check		276.0	

FE Calibration Tolerances MFE-B.J 352				
Reference 2	982.1	-3% 980.0 +3%		
		ohm		
Base Check	276.0	-2% 277.0 +2%		
		ohm-m		
Field Check	276.0	-2% 276.0 +2%		
		ohm-m		

FE Constants MFE-B.J 352			Last Edited on 16-DEC-2018,15:50		
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-C.K 319				Last Edited on 08-JUL-2018,09:57		
Maximum Boundary Contrast	70.00	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					
Correction for Sonde Skew	Applied					
Cycle Stretch Algorithm	Applied					
MN3FT	0.00	micro-sec				
MX3FT	1500.00	micro-sec				
Hunt-Raymer Constant	83.13	micro-sec/ft				
Sonde Mode	Compensated					
Hole Type	Open Hole					
Sonde Parameters						
	Measured	Calibrated				
Offset		0.0000				
Free Pipe	0.0000					
Peak Amplitude Source						
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	
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)	Depth (ft)			
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	0.00	0.00		
0.00	0.00	0.00	0.00	0.00		
Full Waveform Parameters						
Use 3' Waveform to derive TR	No					
Use 4' Waveform to derive TR	No					
Use 5' Waveform to derive TR	No					
Use 6' Waveform to derive TR	No					
3' Waveform Discriminator Level	0.30	mV				
4' Waveform Discriminator Level	0.30	mV				
5' Waveform Discriminator Level	0.15	mV				
6' Waveform Discriminator Level	0.15	mV				
Waveform Discriminator Filter	Not Applied					
Semblance Window Width	150.00	micro-sec				
Semblance Processing Enabled	Yes					
Tracking Boxes Enabled In Processing	Yes					

Induction Calibration MAI-B.J 390			Factory Loop Calibration 10-DEC-2018 18:16		
			Field Check on 16-DEC-2018 12:05		

Factory Loop Calibration							
High Conductivity Reference Resistor		3.3	ohm				
Low Conductivity Reference Resistor		333.3	ohm				
		Measured Signal (unitless)			Reference Conductivity (mmho/m)		Calibration
Array		Low	High	Low	High	Gain	Offset
1 (near)		16.8	458.6	9.3	966.2	2.166	-27.2
2		6.3	377.7	7.6	821.4	2.191	-6.2
3		3.8	258.6	5.2	566.0	2.200	-3.0
4 (far)		1.9	132.3	2.6	279.2	2.121	-1.4

Tool Checks

Array	Factory Reference (mmho/m)		Before Survey (mmho/m)		Deg F
	Low	High	Low	High	
1 (near)	12.1	3958.5	13.2	3960.0	
2	28.9	3562.3	30.0	3563.3	
3	27.1	3060.6	28.0	3061.3	
4 (far)	19.1	2087.5	19.7	2087.8	
Array Temperature		63.5	64.1		

Induction Check Tolerances MAI-B.J 390

Low Array 1	13.2	10.6 12.1 13.6	mmho/m	High Array 1	3960.0	-0.5% 3958.5 +0.5%	mmho/m
Low Array 2	30.0	27.4 28.9 30.4	mmho/m	High Array 2	3563.3	-0.5% 3562.3 +0.5%	mmho/m
Low Array 3	28.0	25.6 27.1 28.6	mmho/m	High Array 3	3061.3	-0.5% 3060.6 +0.5%	mmho/m
Low Array 4	19.7	17.6 19.1 20.6	mmho/m	High Array 4	2087.8	-0.5% 2087.5 +0.5%	mmho/m

Induction Constants MAI-B.J 390

Last Edited on 16-DEC-2018,15:49

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: Constant Temperature		
Temp. for Rm Corr.		N/A	
Borehole Correction Method		Default	
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-B.J 390

Field Calibration on 15-MAY-2018,12:48

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

High Resolution Temperature Constants MAI-B.J 390

Last Edited on 06-MAR-2018,13:01

Pre-filter Length 11

Caliper Calibration MPD-C.A 216

Base Calibration on 04-DEC-2018 12:24

Field Calibration on 16-DEC-2018 12:07

Base Calibration		
Reading No	Measured	Calibrator Size (in)
1	15599	3.99
2	24289	5.98
3	32989	7.97
4	41250	9.86
5	50464	11.92
6	N/A	N/A

Field Calibration	Measured Caliper (in)	Actual Caliper (in)
	7.96	7.97

Caliper Calibration Tolerances MPD-C.A 216

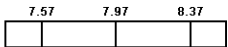
Long Arm Field Cal. 7.96  in

Photo Density Calibration MPD-C.A 216

Base Calibration on 04-DEC-2018 12:43

Field Check on 16-DEC-2018 12:13

Density Calibration				
Base Calibration		Measured		Calibrated (sdu)
	Near	Far	Near	Far
Background	996	1188		
Reference 1	49174	23910	59556	30836
Reference 2	19716	2252	24941	2541

Field Check at Base
996.3 1187.9

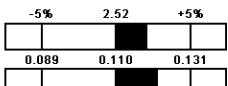
Field Check
1007.7 1215.2

PE Calibration				
Base Calibration		Measured		Calibrated
	WS	WH	Ratio	Ratio
Background	183	895		
Reference 1	20502	49024	0.422	0.371
Reference 2	5636	19607	0.291	0.272

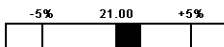
Field Check at Base
182.6 895.4

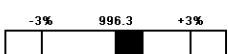
Field Check
187.1 905.9

Photo Density Calibration Tolerances MPD-C.A 216

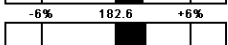
Near Density Ratio 2.57 

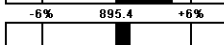
PE Calibration 0.122 

Far Density Ratio 21.36 

Near Den. Field Check 1007.7 

Far Den. Field Check 1215.2 

PE WS Field Check 187.1 

PE WH Field Check 905.9 

Density Constants MPD-C.A 216

Last Edited on 16-DEC-2018,15:50

Density Source Id P50557B
Nylon Calibrator Number DNCE695
Aluminium Calibrator Number DACD698
Density Shoe Profile 8 inch

Density Slice Profile	0.00	gm/cc
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.12	gm/cc
Mud Density Type		
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	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

DOWNHOLE EQUIPMENT

C:\Minimus 18.03.9344\Data\Berexco Kane Unit #4-14\Berexco Kane Unit #4-14_003.dta

Cablehead, 11 pin
CBH-CB 264 LG: 2.40 ft WT: 24.3 lb OD: 2.244 in

Compact Swivel Head Adaptor
SHA-J.B 595 LG: 2.30 ft WT: 22.0 lb OD: 2.244 in

Compact Comms Gamma
MCG-D.K 443 LG: 8.70 ft WT: 63.9 lb OD: 2.244 in

Compact Micro-Resistivity
MMR-B.A 91 LG: 8.59 ft WT: 81.6 lb OD: 4.882 in

Compact Neutron
MDN-B.A 292 LG: 5.04 ft WT: 50.7 lb OD: 2.244 in

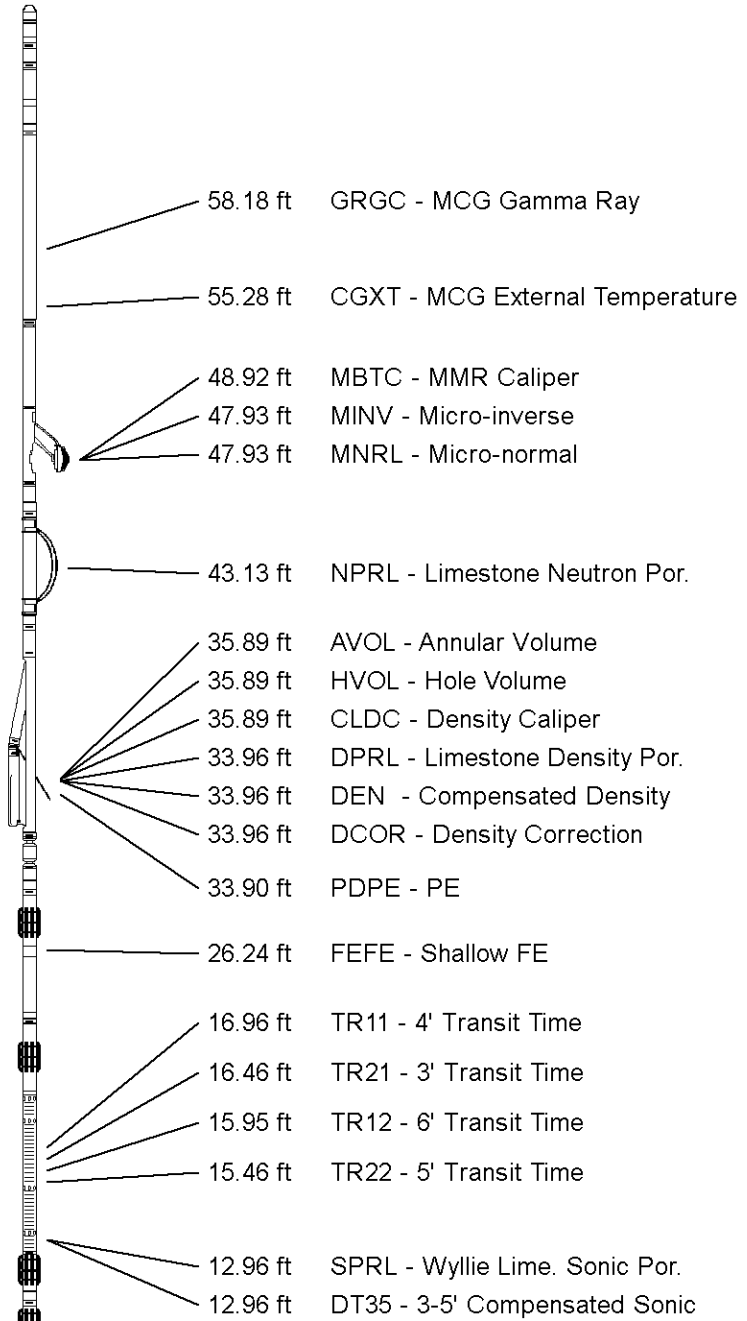
Compact Density/Caliper
MPD-C.A 216 LG: 9.59 ft WT: 90.4 lb OD: 2.913 in

Compact Knuckle Joint
SKJ-D.A 167 LG: 2.17 ft WT: 24.3 lb OD: 2.244 in

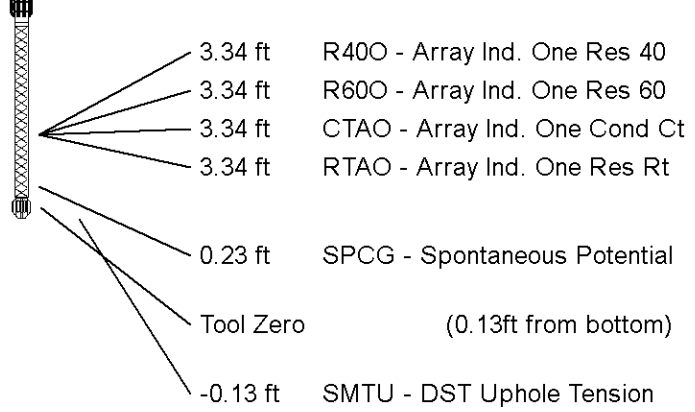
Compact Focussed Electric
MFE-B.J 352 LG: 6.05 ft WT: 48.5 lb OD: 2.244 in

Compact Sonic
MSS-C.K 319 LG: 12.52 ft WT: 72.8 lb OD: 2.244 in

Compact Induction
MAI-B.J 390 LG: 10.81 ft WT: 48.5 lb OD: 2.244 in



Total Length: 68.16 ft Weight: 526.9 lb



All measurements relative to tool zero.

COMPANY BEREXCO, LLC.
WELL KANE UNIT #4-14
FIELD ALFORD
PROVINCE/COUNTY KIOWA
COUNTRY/STATE U.S.A. / KANSAS

Elevation Kelly Bushing	2227	feet	First Reading	5251.00	feet
Elevation Drill Floor	2225	feet	Depth Driller	5300.00	feet
Elevation Ground Level	2215	feet	Depth Logger	5299.00	feet



MICRORESISTIVITY LOG

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