

HALLIBURTON										MICROLOG									
COMPANY					HARTMAN OIL CO.					COMPANY					HARTMAN OIL CO.				
WELL					DOWELL 1-33					WELL					DOWELL 1-33				
FIELD					WILDCAT					FIELD					WILDCAT				
COUNTY					GOVE					COUNTY					GOVE				
STATE					KANSAS					STATE					KANSAS				
Permanent Datum					GL					Elev. 2606.0 ft					Elev.: K.B.				
Log measured from					KB					11.0 ft above perm. Datum					D.F.				
Drilling measured from					KB										G.L.				
Date					13-Aug-12														
Run No.					ONE														
Depth - Driller					4400.00 ft														
Depth - Logger					4390.0 ft														
Bottom - Logged Interval					4368.0 ft														
Top - Logged Interval					1975.0 ft														
Casing - Driller					8.625 in @ 317.0 ft										@				
Casing - Logger					372.0 ft														
Bit Size					7.875 in					@					@				
Type Fluid in Hole					WATER BASED MUD														
Density					9.2 ppg					55.00 s/qt									
PH					10.00 pH					8.0 cp/m									
Source of Sample					FLOWLINE														
Rm @ Meas. Temperature					0.760 ohmm @ 91.00 degF					@					@				
Rmf @ Meas. Temperature					0.82 ohmm @ 77.00 degF					@					@				
Rmc @ Meas. Temperature					0.950 ohmm @ 77.00 degF					@					@				
Source Rmf					MEASURED					MEASURED									
Rm @ BHT					0.63 ohmm @ 126.0 degF					@					@				
Time Since Circulation					3.5 hr														
Time on Bottom					13-Aug-12 20:27														
Max. Rec. Temperature					126.0 degF @ 4390.0 ft					@					@				
Equipment					10782954					LIBERAL									
Recorded By					C. HAVERKAMP														
Witnessed By					K. NOAH														

Fold here

Service Ticket No.: 9734629						API Serial No.: 15-063-22026						PGM Version: WL INSITE R3.6.0 (Build 3)											
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE										RESISTIVITY SCALE CHANGES													
Date		Sample No.										Type Log		Depth		Scale Up Hole			Scale Down Hole				
Depth-Driller																							
Type Fluid in Hole																							
Density		Viscosity																					
Ph		Fluid Loss																					
Source of Sample												RESISTIVITY EQUIPMENT DATA											
Rm @ Meas. Temp				@				@				Run No.		Tool Type & No.		Pad Type		Tool Pos.		Other			
Rmf @ Meas. Temp.				@				@				ONE		MICRO		RUBBER		ADJ.		N/A			
Rmc @ Meas. Temp.				@				@															
Source Rmf		Rmc																					
Rm @ BHT				@				@															
Rmf @ BHT				@				@															
Rmc @ BHT				@				@															
EQUIPMENT DATA																							
GAMMA				ACOUSTIC				DENSITY				NEUTRON											
Run No.		ONE		Run No.				Run No.				Run No.											
Serial No.		10811258		Serial No.				Serial No.				Serial No.											
Model No.		GTET		Model No.				Model No.				Model No.											
Diameter		3.625		No. of Cent.				Diameter				Diameter											
Detector Model No.		T-102		Spacing				Log Type				Log Type											
Type		SCINT						Source Type				Source Type											
Length		8"		LSA [Y/N]				Serial No.				Serial No.											
Distance to Source		10'		FWDA [Y/N]				Strength				Strength											

GENERAL			GAMMA		ACOUSTIC		DENSITY		NEUTRON					
Run	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix
No.	From	To	ft/min	L	R	L	R		L	R		L	R	
ONE	4390'	1975'	REC	0	150									
DIRECTIONAL INFORMATION														
Maximum Deviation @								KOP @						
Remarks: SP-GTET-DSNT-SDLT-ACRT RAN IN COMBINATION.														
ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING.														
CHLORIDES REPORTED AT 2300 PPM.														
LCM REPORTED AT 3 LB/BBL.														
POST TOOL SURVEYS NOT PERFORMED PER CUSTOMER REQUEST.														
YOUR CREW: A. VAQUERA, B. TERRELL														
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES. LIBERAL, KS 620-624-8123														
HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.														
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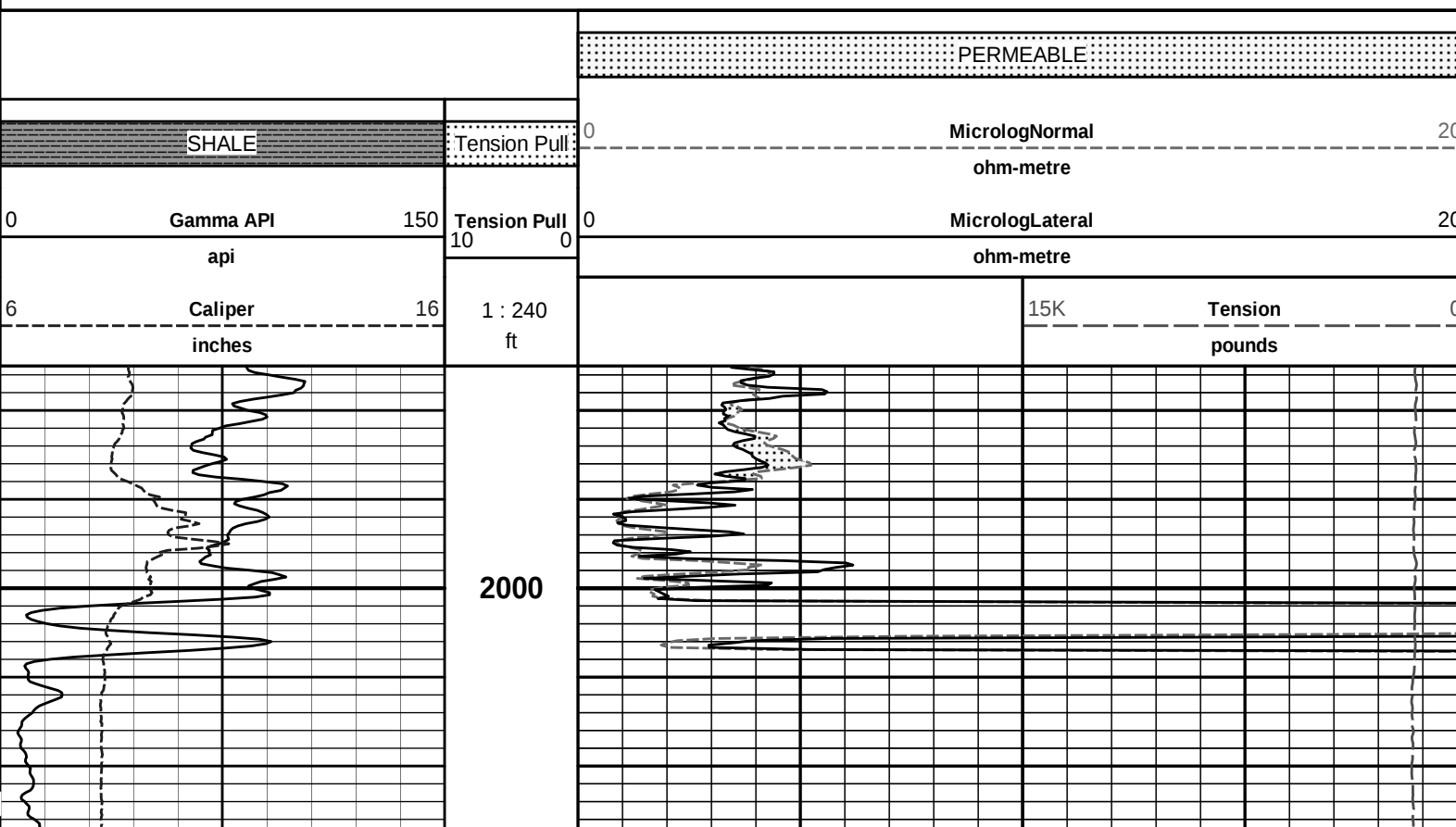
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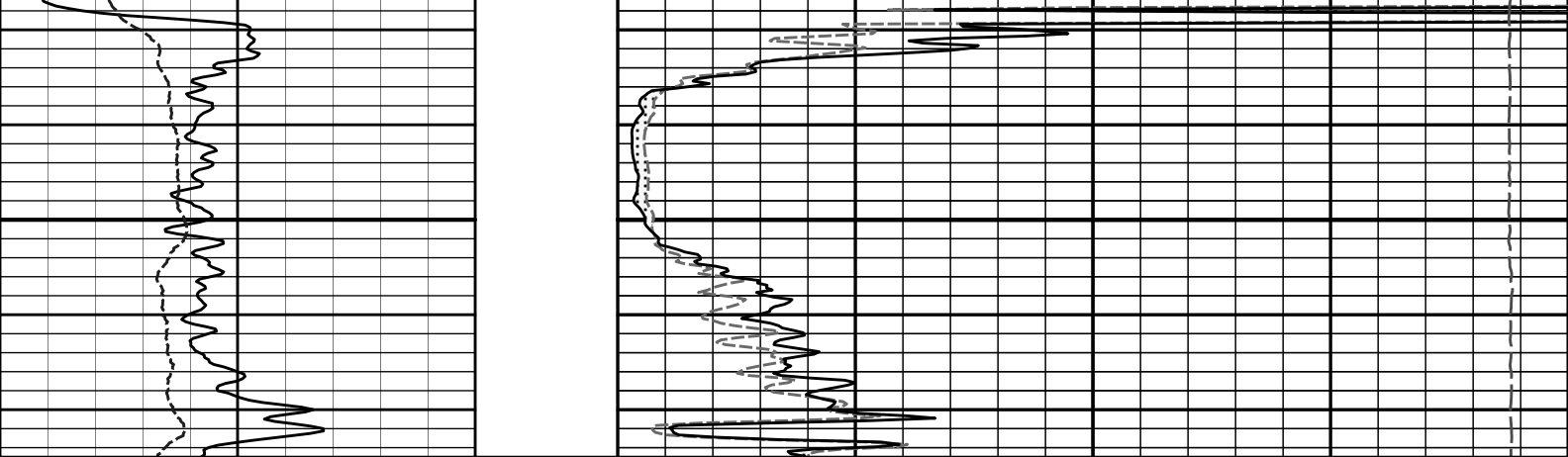
Plot Range: 1975 ft to 2075 ft

Data: DOWELL_1_33\Well Based\R1_DETAIL\

Plot File: \\-LOCAL-\\DOWELL_1_33\\0001 TRIPLE COMBO\\MICRO\\Microlog_IQ_5_main_lib

5 INCH MAIN LOG





6	Caliper	16	1 : 240	15K	Tension	0
	inches		ft		pounds	
0	Gamma API	150	Tension Pull	0	MicrologLateral	20
	api		10 0		ohm-metre	
	SHALE		Tension Pull	0	MicrologNormal	20
					ohm-metre	
					PERMEABLE	

HALLIBURTON

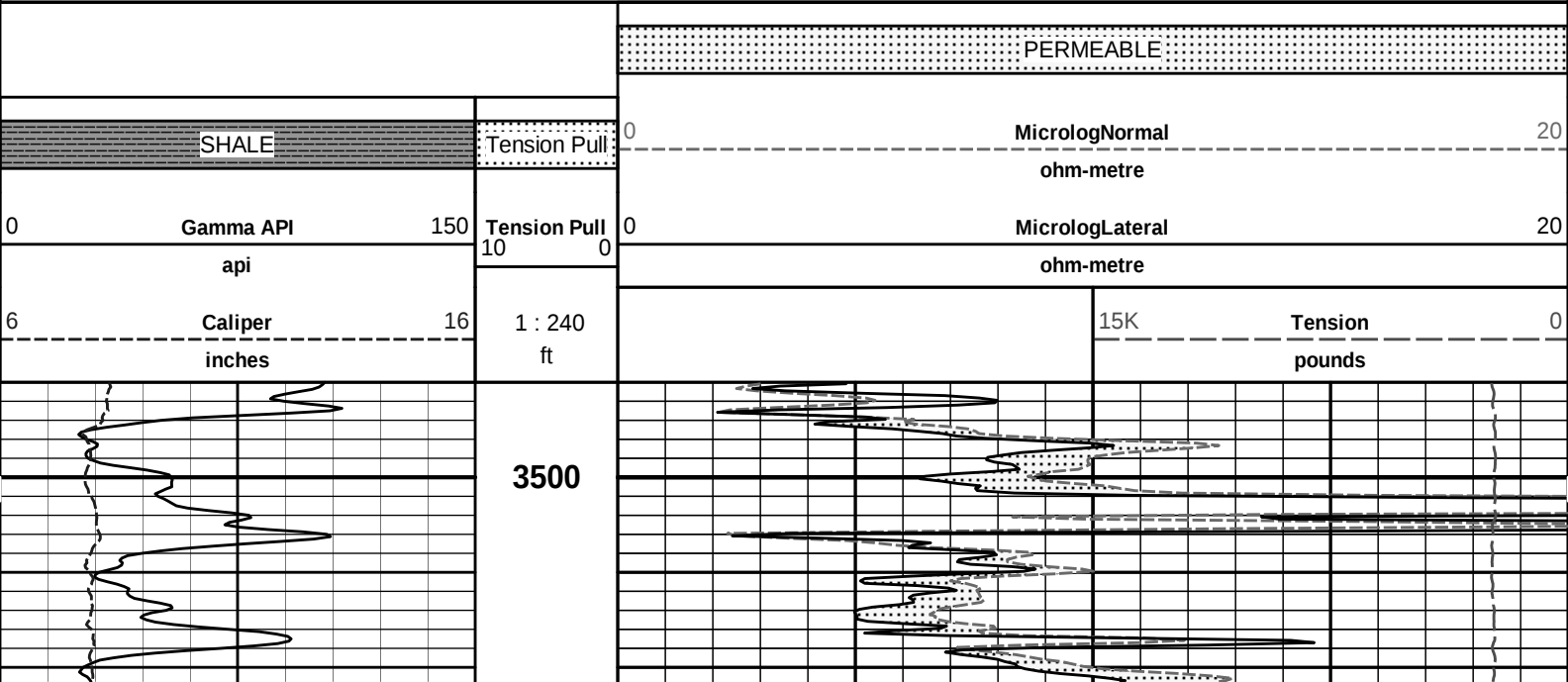
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Plot File: \\-LOCAL-\\DOWELL_1_33\\0001 TRIPLE COMBO\\MICRO\\Microlog_IQ_5_main_lib

5 INCH MAIN LOG

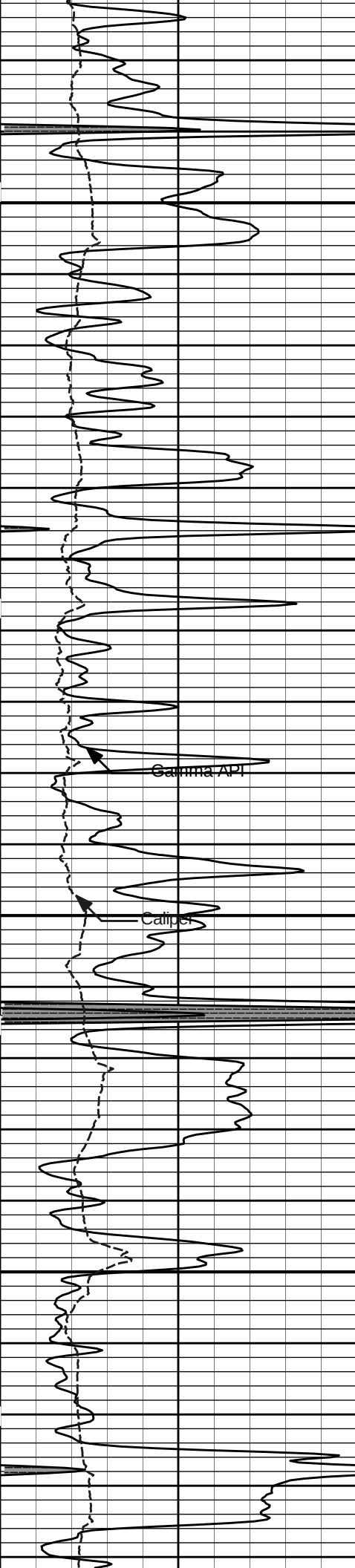
HALLIBURTON

Plot Time: 13-Aug-12 22:00:40
Plot Range: 3490 ft to 4390 ft
Data: DOWELL_1_33\Well Based\R1_DETAIL\
Plot File: \\-LOCAL-\\DOWELL_1_33\\0001 TRIPLE COMBO\\MICRO\\Microlog_IQ_5_main_lib

5 INCH MAIN LOG

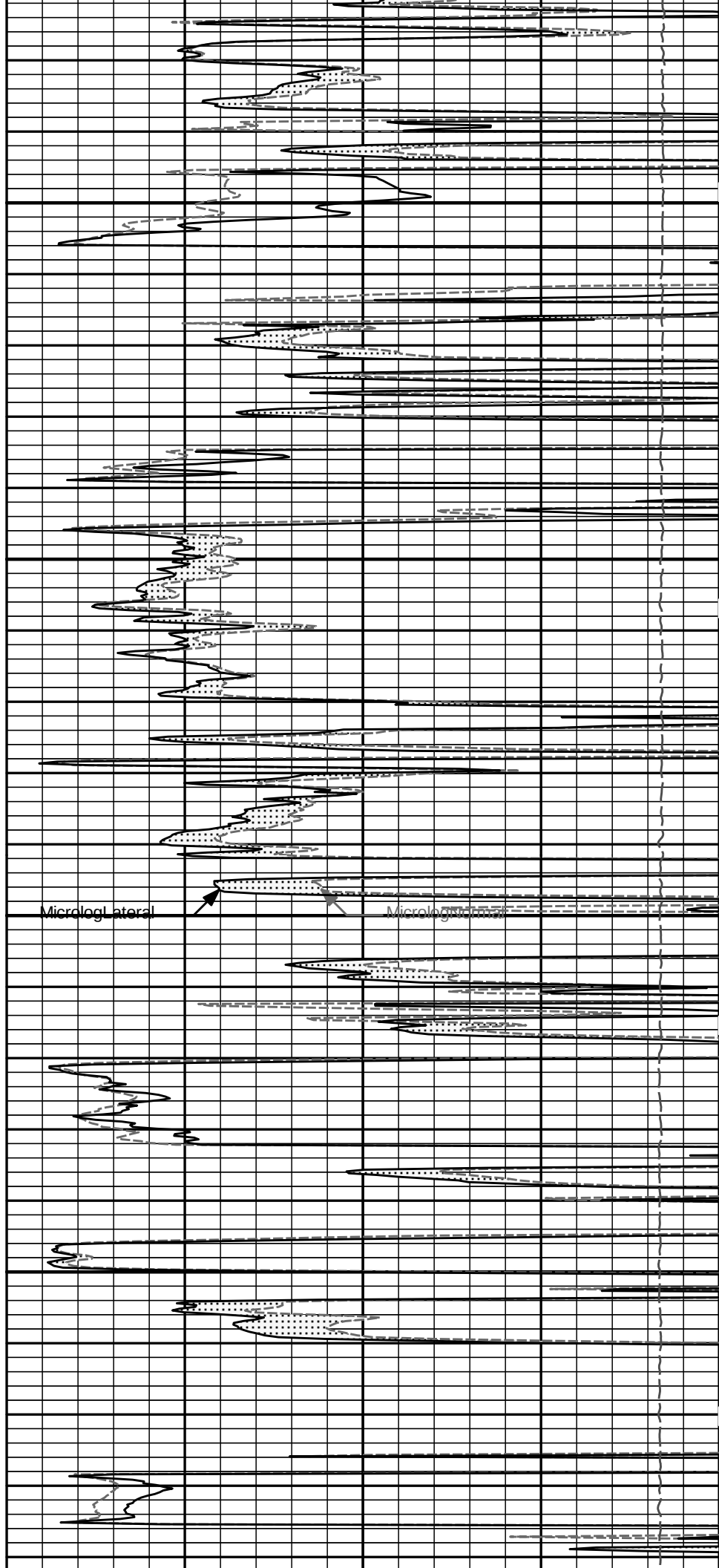


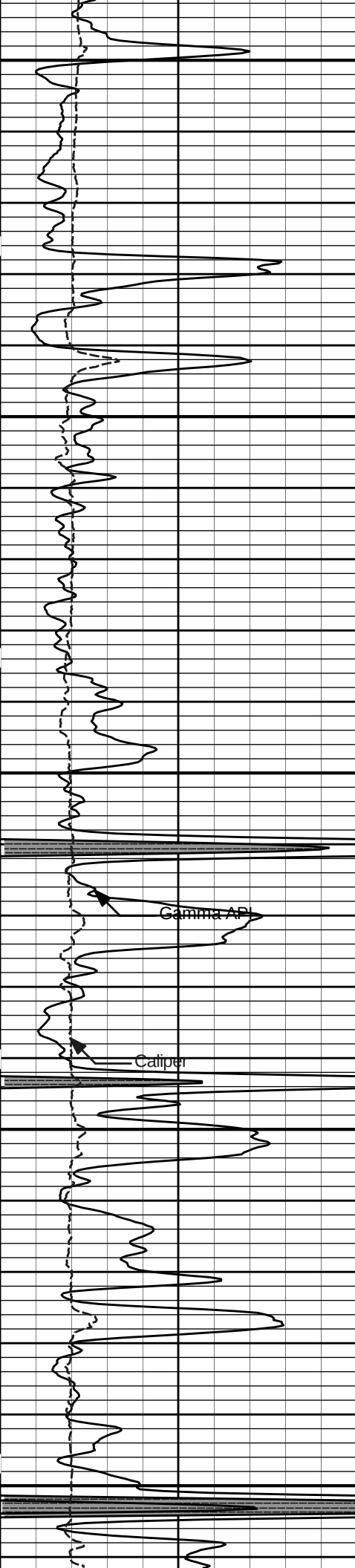
					PERMEABLE	
	SHALE	Tension Pull	0	MicrologNormal	ohm-metre	20
0	Gamma API	150	Tension Pull	0	MicrologLateral	20
	api		10 0		ohm-metre	
6	Caliper	16	1 : 240	15K	Tension	0
	inches		ft		pounds	
		3500				



3600

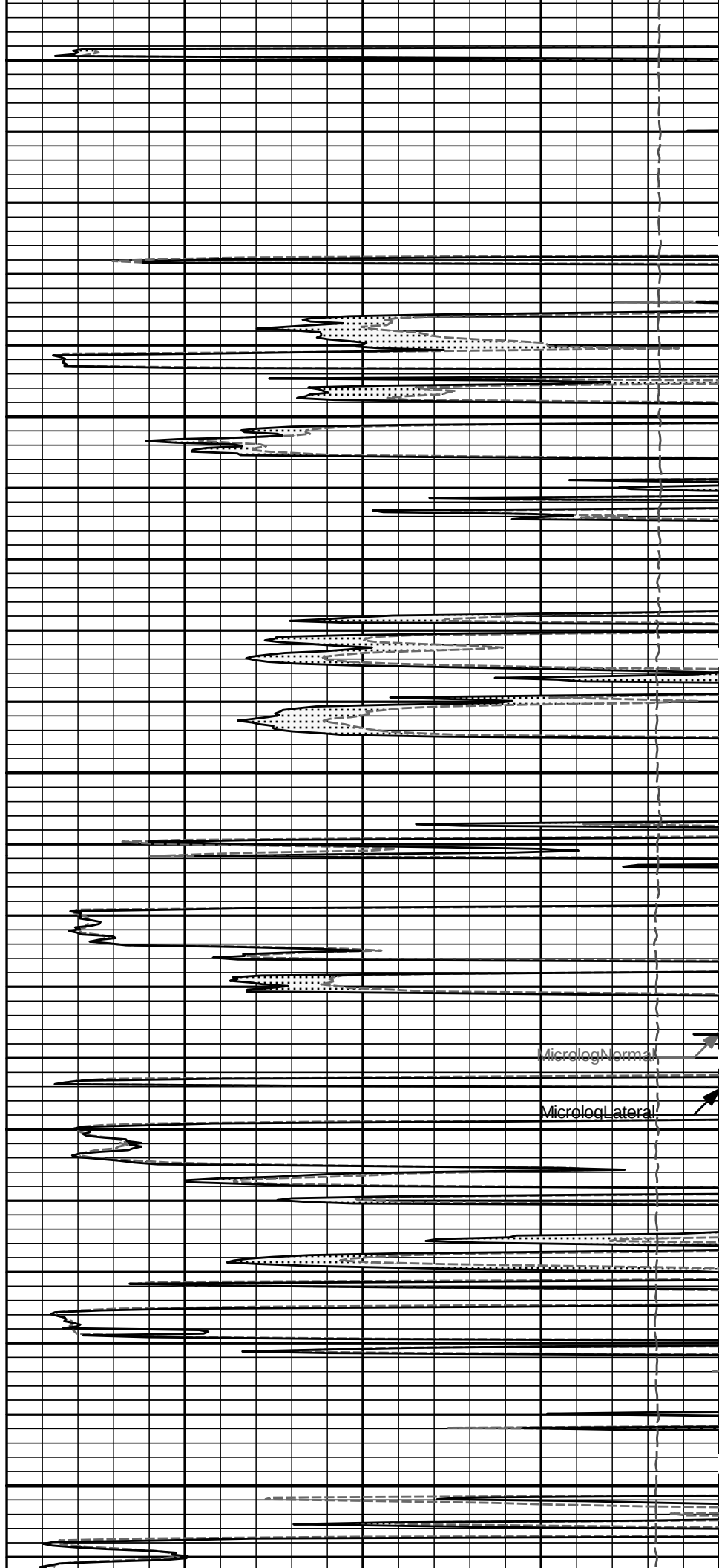
3700





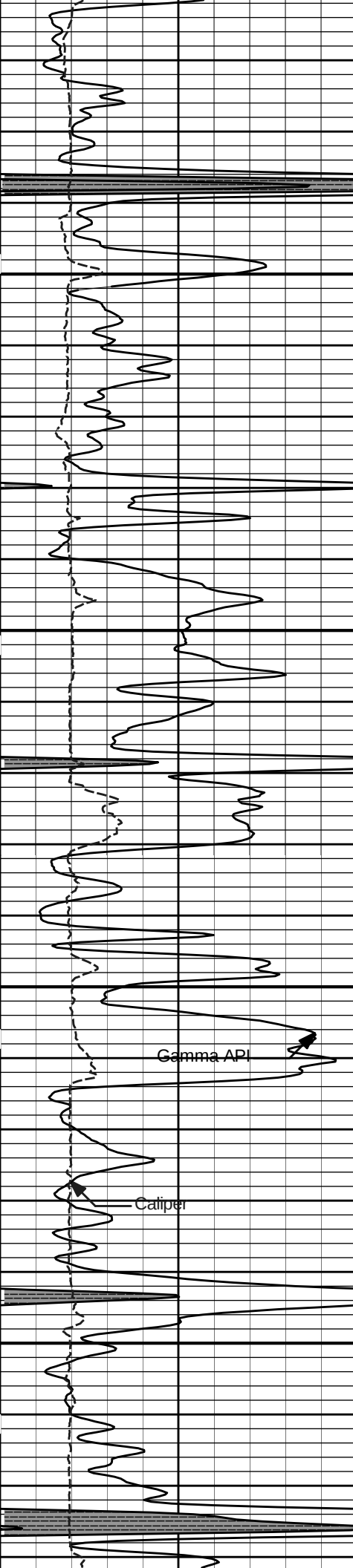
3800

3900



MicrologNormal

MicrologLateral

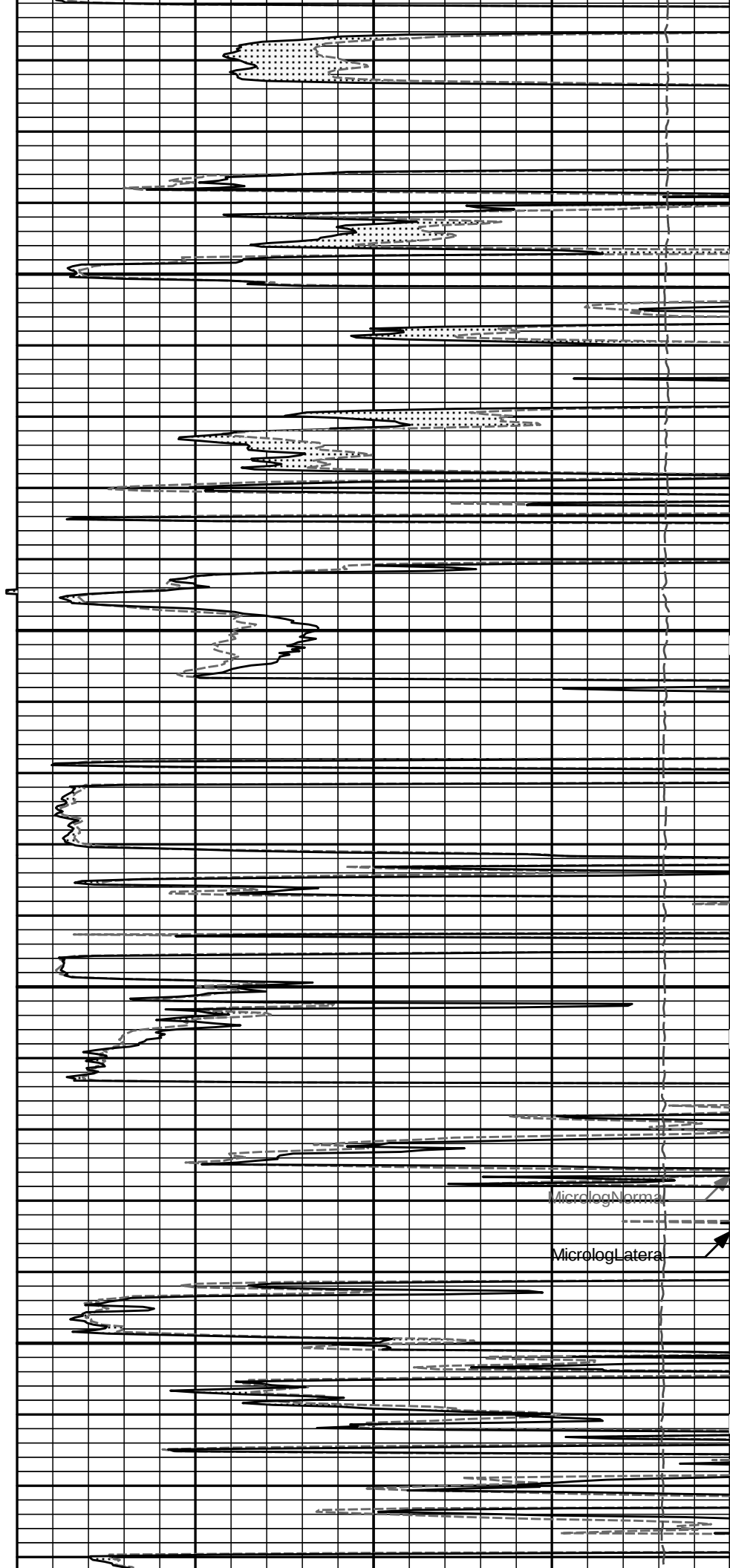


4000

4100

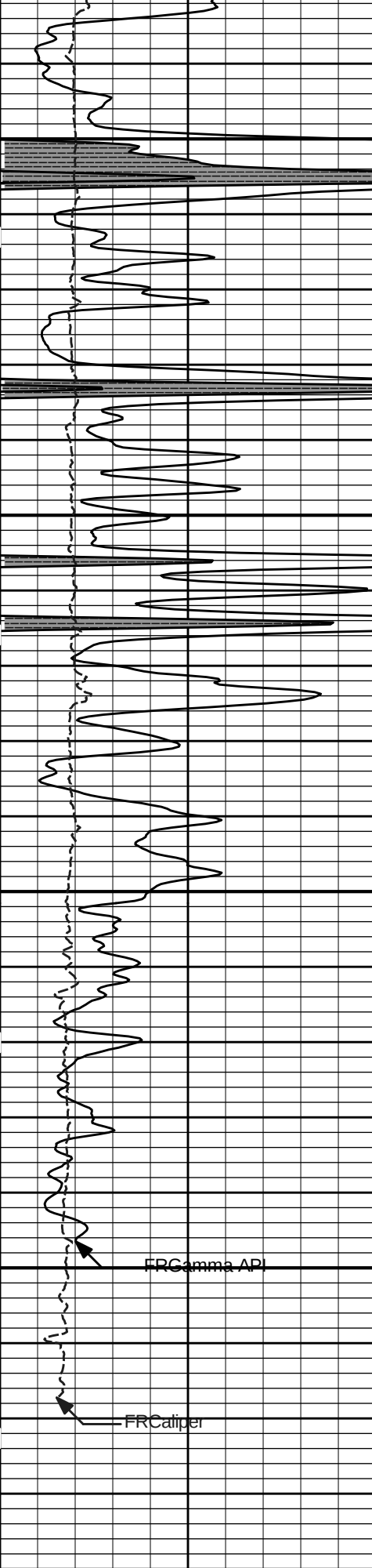
Gamma API

Caliper



MicrologNormal

MicrologLateral

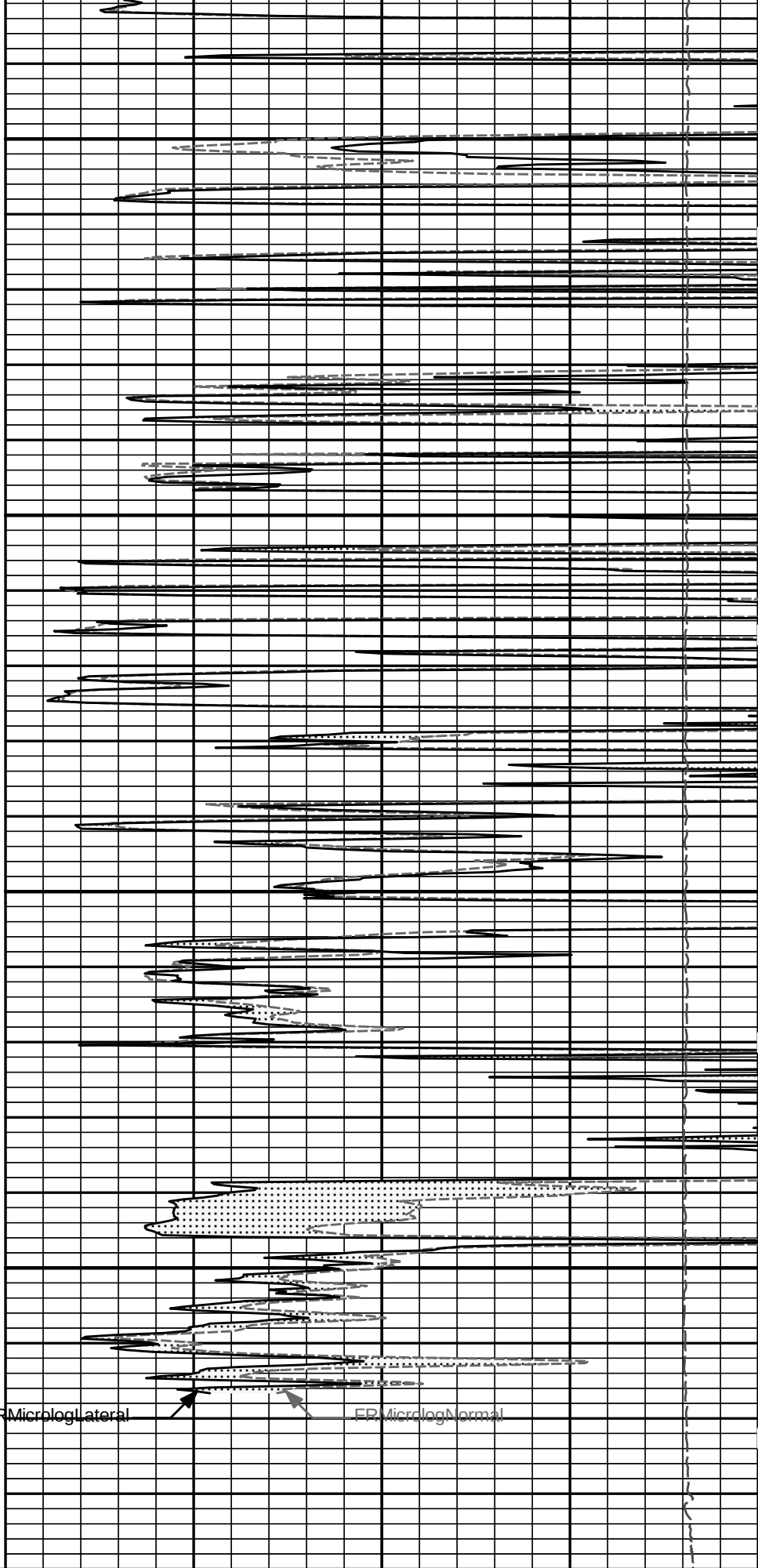


4200

4300

FRCgamma API

FRCaliper



FRCmicrologLateral

FRCmicrologNormal

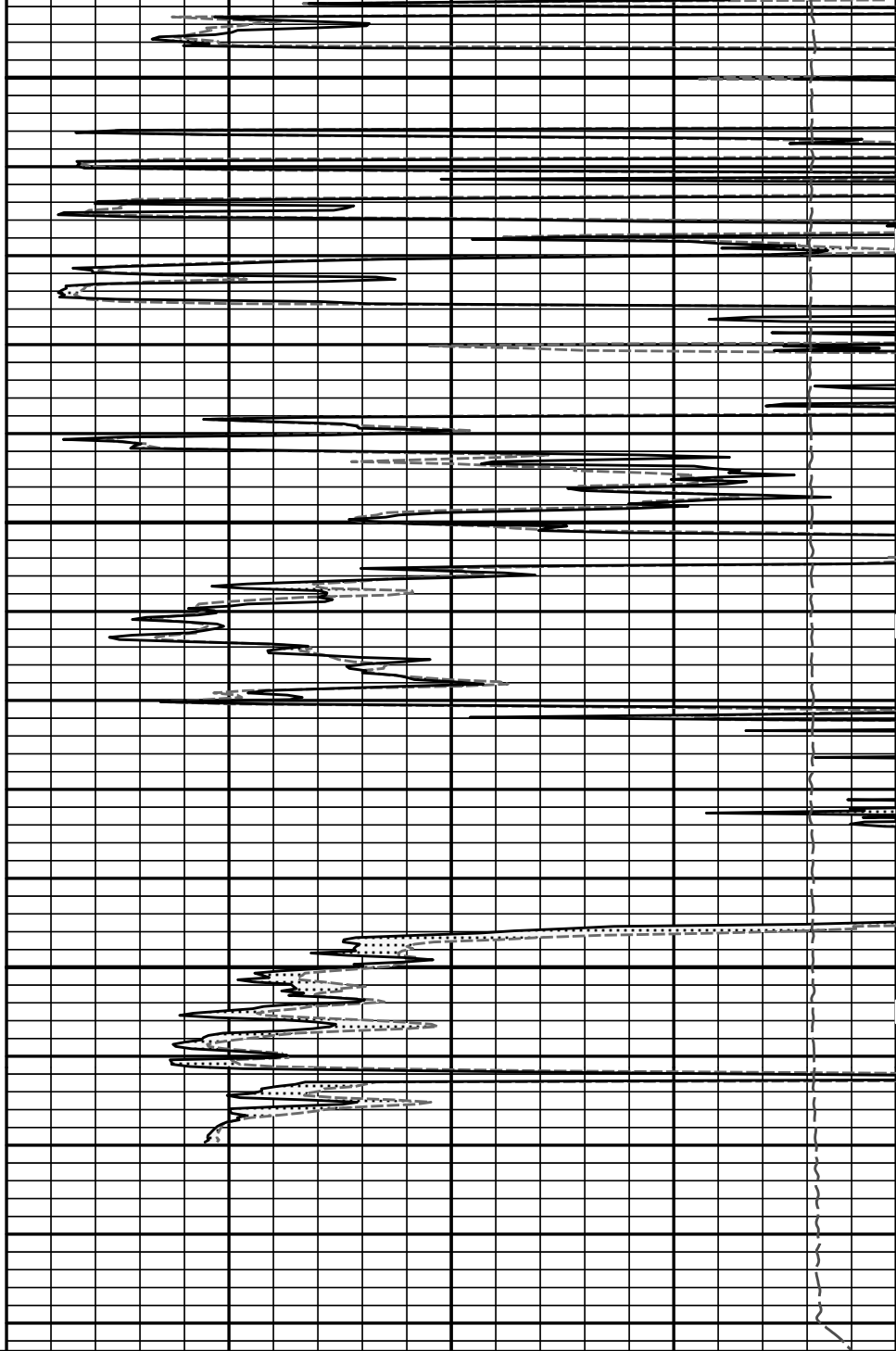
6 Caliper inches 16

1 : 240 ft

15K Tension pounds 0



4300



0	Gamma API	150
	api	
6	Caliper	16
	inches	
	SHALE	

1 : 240
ft

15K Tension
pounds 0

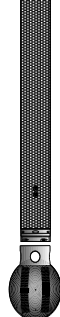
0	MicrologLateral	20
	ohm-metre	
0	MicrologNormal	20
	ohm-metre	
	PERMEABLE	

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
Cable Head- PROT01 30.00 lbs		Ø 3.625 in →			1.92 ft	54.51 ft
SP Sub-TRK954 60.00 lbs		Ø 3.625 in →		← SP @ 50.81 ft	3.74 ft	52.59 ft
GTET-10811258 165.00 lbs		Ø 3.625 in →		← GammaRay @ 42.79 ft	8.52 ft	48.85 ft
DSNT-10735145 174.00 lbs	DSN Decentralizer- 10735145 6.60 lbs	Ø 5.000 in* → Ø 3.625 in →		← DSN Far @ 33.39 ft ← DSN Near @ 32.64 ft	9.69 ft	40.33 ft
SDLT- 1145_M73803_P90 360.00 lbs	SDLT Pad-90 65.00 lbs Microlog Pad- 1145_M73803_P90 8.00 lbs	Ø 4.500 in → Ø 4.750 in* → Ø 4.750 in* →		Microlog @ 22.83 ft SDL Caliper @ 22.65 ft SDL @ 22.64 ft	10.81 ft	30.64 ft
ACRt Instrument- I776 50.00 lbs		Ø 3.625 in →			5.03 ft	19.83 ft
ACRt Sonde- I776_S775 200.00 lbs		Ø 3.625 in →		← Mud Resistivity @ 13.44 ft ← ACRt @ 9.46 ft	14.22 ft	14.80 ft

Cabbage Head-
TRK954
10.00 lbs

Ø 3.625 in
Ø 6.000 in



0.58 ft
0.00 ft

Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
CH	Standard OH Cable Head	PROT01	30.00	1.92	52.59	300.00
SP	SP Sub	TRK954	60.00	3.74	48.85	300.00
GTET	Gamma Telemetry Tool	10811258	165.00	8.52	40.33	60.00
DSNT	Dual Spaced Neutron	10735145	174.00	9.69	30.64	60.00
DCNT	DSN Decentralizer	10735145	6.60	5.13	* 33.97	300.00
SDLT	Spectral Density Tool	I145_M73803_P90	360.00	10.81	19.83	60.00
MICP	Microlog Pad	I145_M73803_P90	8.00	1.00	* 22.33	60.00
SDLP	Density Insite Pad	90	65.00	2.55	* 22.04	60.00
ACRt	Array Compensated True Resistivity Instrument Section	I776	50.00	5.03	14.80	300.00
ACRt	Array Compensated True Resistivity Sonde Section	I776_S775	200.00	14.22	0.58	300.00
CBHD	Cabbage Head	TRK954	10.00	0.58	0.00	300.00
Total			1,128.60	54.51		
						* Not included in Total Length and Length Accumulation.
Data: DOWELL_1_33I0001 TRIPLE COMBOIDLE						Date: 13-Aug-12 20:08:15

HALLIBURTON

CALIBRATION REPORT

MICRO LOG SHOP CALIBRATION

Tool Name:	Microlog Pad - I145_M73803_P90	Reference Calibration Date:	24-Jul-12 19:44:03
Engineer:	C. HAVERKAMP	Calibration Date:	13-Aug-12 11:22:16
Software Version:	WL INSITE R3.6.0 (Build 3)	Calibration Version:	1
Host Tool Name:	DSNT - 10735145		

CALIBRATION COEFFICIENT SUMMARY					
Measurement	Micro Log Normal		Micro Log Lateral		Units
	Measured	Calibrated	Measured	Calibrated	
Tool Zero	-0.11	-0.08	-0.00	-0.01	ohmm
Calibration Point #1	-0.03	0.00	0.00	0.00	ohmm
Calibration Point #2	19.88	20.00	19.91	20.00	ohmm
Internal Reference	19.88	20.01	20.00	20.09	ohmm
Measurement	Micro Log Normal Tool Value		Micro Log Lateral Tool Value		Units
Tool Zero	-0.45		0.00		V
Calibration Point #1	21.35		1.92		V
Calibration Point #2	5373.24		6978.08		V
Internal Reference	5374.76		7010.52		V

MICRO LOG FIELD CHECK

Tool Name:	Microlog Pad - I145_M73803_P90	Reference Calibration Date:	13-Aug-12 11:22:16
Engineer:	C. HAVERKAMP	Calibration Date:	13-Aug-12 11:22:53

Software Version: WL INSITE R3.6.0 (Build 3)			Calibration Version: 1			
	Measurement	Micro Log Normal		Micro Log Lateral		
		Shop	Field	Shop	Field	Units
	Tool Zero	-0.08	-0.08	-0.01	-0.01	ohmm
	Internal Reference	20.01	20.01	20.09	20.10	ohmm
	Summary					
	Signal	Shop	Field	Difference	Tolerance	
	Microlog Normal	20.01	20.01	0.00	+/- 0.80	
	Microlog Lateral	20.09	20.10	-0.01	+/- 0.80	
	CALIBRATION SUMMARY					
	Sensor	Shop	Field	Post	Difference	Tolerance
Microlog Pad-I145_M73803_P90						
MicroLog Normal	20.01	20.01	-----	0.00	+/-0.80	ohmm
MicroLog Lateral	20.09	20.10	-----	-0.01	+/-0.80	ohmm
Data: DOWELL_1_33\0001 TRIPLE COMBO\001 13-Aug-12 19:53 Dn @311.8f						Date: 13-Aug-12 20:07:13

HALLIBURTON						
PARAMETERS REPORT						
Depth (ft)	Tool Name	Mnemonic	Description	Value	Units	
TOP						
	SHARED	BS	Bit Size	7.875	in	
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No		
	SHARED	MDBS	Mud Base	Water		
	SHARED	MDWT	Borehole Fluid Weight	9.200	ppg	
	SHARED	WAGT	Weighting Agent	Natural		
	SHARED	BSAL	Borehole salinity	2300.00	ppm	
	SHARED	FSAL	Formation Salinity NaCl	0.00	ppm	
	SHARED	KPCT	Percent K in Mud by Weight?	0.00	%	
	SHARED	RMUD	Mud Resistivity	0.760	ohmm	
	SHARED	TRM	Temperature of Mud	91.0	degF	
	SHARED	CSD	Logging Interval is Cased?	No		
	SHARED	ICOD	AHV Casing OD	5.500	in	
	SHARED	ST	Surface Temperature	75.0	degF	
	SHARED	TD	Total Well Depth	4400.00	ft	
	SHARED	BHT	Bottom Hole Temperature	120.0	degF	
	SHARED	SVTM	Navigation and Survey Master Tool	NONE		
	SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET		
	SHARED	TEMM	Temperature Master Tool	NONE		
	SHARED	BHSM	Borehole Size Master Tool	NONE		
	Rwa / CrossPlot	XPOK	Process Crossplot?	Yes		
	Rwa / CrossPlot	FCHO	Select Source of F	Automatic		
	Rwa / CrossPlot	AFAC	Archie A factor	0.6200		
	Rwa / CrossPlot	MFAC	Archie M factor	2.1500		
	Rwa / CrossPlot	RMFR	Rmf Reference	0.10	ohmm	
	Rwa / CrossPlot	TMFR	Rmf Ref Temp	75.00	degF	

CrossPlot	Rwa / CrossPlot	RWA	Resistivity of Formation Water	0.05	ohmm
	Rwa / CrossPlot	ADP	Use Air Porosity to calculate CrossplotPhi	No	
	GTET	GROK	Process Gamma Ray?	Yes	
	GTET	GRSO	Gamma Tool Standoff	0.000	in
	GTET	GEOK	Process Gamma Ray EVR?	No	
	GTET	TPOS	Tool Position for Gamma Ray Tools.	Eccentered	
	DSNT	DNOK	Process DSN?	Yes	
	DSNT	DEOK	Process DSN EVR?	No	
	DSNT	NLIT	Neutron Lithology	Limestone	
	DSNT	DNSO	DSN Standoff - 0.25 in (6.35 mm) Recommended	0.250	in
	DSNT	DNTP	Temperature Correction Type	None	
	DSNT	DPRS	DSN Pressure Correction Type	None	
	DSNT	SHCO	View More Correction Options	No	
	DSNT	UTVD	Use TVD for Gradient Corrections?	No	
	DSNT	LHWT	Logging Horizontal Water Tank?	No	
	SDLT	CLOK	Process Caliper Outputs?	Yes	
	SDLT Pad	DNOK	Process Density?	Yes	
	SDLT Pad	DNOK	Process Density EVR?	No	
	SDLT Pad	CB	Logging Calibration Blocks?	No	
	SDLT Pad	SPVT	SDLT Pad Temperature Valid?	Yes	
	SDLT Pad	DTWN	Disable temperature warning	No	
	SDLT Pad	DMA	Formation Density Matrix	2.710	g/cc
	SDLT Pad	DFL	Formation Density Fluid	1.000	g/cc
	Microlog Pad	MLOK	Process MicroLog Outputs?	Yes	
	ACRt Sonde	RTOK	Process ACRt?	Yes	
	ACRt Sonde	MNSO	Minimum Tool Standoff	1.50	in
	ACRt Sonde	TCS1	Temperature Correction Source	FP Lwr & FP Up	
	ACRt Sonde	TPOS	Tool Position	Free Hanging	
	ACRt Sonde	RMOP	Rmud Source	Mud Cell	
	ACRt Sonde	RMIN	Minimum Resistivity for MAP	0.20	ohmm
	ACRt Sonde	RMIN	Maximum Resistivity for MAP	200.00	ohmm
	ACRt Sonde	THQY	Threshold Quality	0.50	
	ACRt Sonde	MRFX	Fixed mud resistivity	2000	ohmm
BOTTOM					
Data: DOWELL_1_33\0001 TRIPLE COMBOIDLE				Date: 13-Aug-12 20:07:37	

HALLIBURTON					
INPUTS, DELAYS AND FILTERS TABLE					
Mnemonic		Input Description	Delay (ft)	Filter Type	Filter Length (ft)
Depth Panel					
TENS	Tension		0.00	NO	
SP Sub					
PLTC	Plot Control Mask		50.81	NO	
SP	Spontaneous Potential		50.81	BLK	1.250
SPR	Raw Spontaneous Potential		50.81	NO	
SPO	Spontaneous Potential Offset		50.81	NO	
GTET					
TPUL	Tension Pull		42.79	NO	

GR	Natural Gamma Ray API	42.79	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	42.79	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	42.79	W	1.416 , 0.750
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	
DSNT				
TPUL	Tension Pull	32.54	NO	
RNDS	Near Detector Telemetry Counts	32.64	BLK	1.417
RFDS	Far Detector Telemetry Counts	33.39	TRI	0.583
DNTT	DSN Tool Temperature	32.64	NO	
DSNS	DSN Tool Status	32.54	NO	
ERND	Near Detector Telemetry Counts EVR	32.64	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	33.39	BLK	0.000
ENTM	DSN Tool Temperature EVR	32.64	NO	
SDLT				
TPUL	Tension Pull	22.65	NO	
PCAL	Pad Caliper	22.65	TRI	0.250
ACAL	Arm Caliper	22.65	TRI	0.250
ACRt Sonde				
TPUL	Tension Pull	2.97	NO	
F1R1	ACRT 12KHz - 80in R value	9.22	BLK	0.000
F1X1	ACRT 12KHz - 80in X value	9.22	BLK	0.000
F1R2	ACRT 12KHz - 50in R value	6.72	BLK	0.000
F1X2	ACRT 12KHz - 50in X value	6.72	BLK	0.000
F1R3	ACRT 12KHz - 29in R value	5.22	BLK	0.000
F1X3	ACRT 12KHz - 29in X value	5.22	BLK	0.000
F1R4	ACRT 12KHz - 17in R value	4.22	BLK	0.000
F1X4	ACRT 12KHz - 17in X value	4.22	BLK	0.000
F1R5	ACRT 12KHz - 10in R value	3.72	BLK	0.000
F1X5	ACRT 12KHz - 10in X value	3.72	BLK	0.000
F1R6	ACRT 12KHz - 6in R value	3.47	BLK	0.000
F1X6	ACRT 12KHz - 6in X value	3.47	BLK	0.000
F2R1	ACRT 36KHz - 80in R value	9.22	BLK	0.000
F2X1	ACRT 36KHz - 80in X value	9.22	BLK	0.000
F2R2	ACRT 36KHz - 50in R value	6.72	BLK	0.000
F2X2	ACRT 36KHz - 50in X value	6.72	BLK	0.000
F2R3	ACRT 36KHz - 29in R value	5.22	BLK	0.000
F2X3	ACRT 36KHz - 29in X value	5.22	BLK	0.000
F2R4	ACRT 36KHz - 17in R value	4.22	BLK	0.000
F2X4	ACRT 36KHz - 17in X value	4.22	BLK	0.000
F2R5	ACRT 36KHz - 10in R value	3.72	BLK	0.000
F2X5	ACRT 36KHz - 10in X value	3.72	BLK	0.000
F2R6	ACRT 36KHz - 6in R value	3.47	BLK	0.000
F2X6	ACRT 36KHz - 6in X value	3.47	BLK	0.000
F3R1	ACRT 72KHz - 80in R value	9.22	BLK	0.000
F3X1	ACRT 72KHz - 80in X value	9.22	BLK	0.000
F3R2	ACRT 72KHz - 50in R value	6.72	BLK	0.000
F3X2	ACRT 72KHz - 50in X value	6.72	BLK	0.000
F3R3	ACRT 72KHz - 29in R value	5.22	BLK	0.000
F3X3	ACRT 72KHz - 29in X value	5.22	BLK	0.000
F3R4	ACRT 72KHz - 17in R value	4.22	BLK	0.000
F3X4	ACRT 72KHz - 17in X value	4.22	BLK	0.000
F3R5	ACRT 72KHz - 10in R value	3.72	BLK	0.000

F3X5	ACRT 72KHz - 10in X value	3.72	BLK	0.000
F3R6	ACRT 72KHz - 6in R value	3.47	BLK	0.000
F3X6	ACRT 72KHz - 6in X value	3.47	BLK	0.000
RMUD	Mud Resistivity	12.76	BLK	0.000
F1RT	Transmitter Reference 12 KHz Real Signal	2.97	BLK	0.000
F1XT	Transmitter Reference 12 KHz Imaginary Signal	2.97	BLK	0.000
F2RT	Transmitter Reference 36 KHz Real Signal	2.97	BLK	0.000
F2XT	Transmitter Reference 36 KHz Imaginary Signal	2.97	BLK	0.000
F3RT	Transmitter Reference 72 KHz Real Signal	2.97	BLK	0.000
F3XT	Transmitter Reference 72 KHz Imaginary Signal	2.97	BLK	0.000
TFPU	Upper Feedpipe Temperature Calculated	2.97	BLK	0.000
TFPL	Lower Feedpipe Temperature Calculated	2.97	BLK	0.000
ITMP	Instrument Temperature	2.97	BLK	0.000
TCVA	Temperature Correction Values Loop Off	2.97	NO	
TIDV	Instrument Temperature Derivative	2.97	NO	
TUDV	Upper Temperature Derivative	2.97	NO	
TLDV	Lower Temperature Derivative	2.97	NO	
TRBD	Receiver Board Temperature	2.97	NO	

SDLT Pad				
TPUL	Tension Pull	22.64	NO	
NAB	Near Above	22.46	BLK	0.920
NHI	Near Cesium High	22.46	BLK	0.920
NLO	Near Cesium Low	22.46	BLK	0.920
NVA	Near Valley	22.46	BLK	0.920
NBA	Near Barite	22.46	BLK	0.920
NDE	Near Density	22.46	BLK	0.920
NPK	Near Peak	22.46	BLK	0.920
NLI	Near Lithology	22.46	BLK	0.920
NBAU	Near Barite Unfiltered	22.46	BLK	0.250
NLIU	Near Lithology Unfiltered	22.46	BLK	0.250
FAB	Far Above	22.81	BLK	0.250
FHI	Far Cesium High	22.81	BLK	0.250
FLO	Far Cesium Low	22.81	BLK	0.250
FVA	Far Valley	22.81	BLK	0.250
FBA	Far Barite	22.81	BLK	0.250
FDE	Far Density	22.81	BLK	0.250
FPK	Far Peak	22.81	BLK	0.250
FLI	Far Lithology	22.81	BLK	0.250
PTMP	Pad Temperature	22.65	BLK	0.920
NHV	Near Detector High Voltage	22.04	NO	
FHV	Far Detector High Voltage	22.04	NO	
ITMP	Instrument Temperature	22.04	NO	
DDHV	Detector High Voltage	22.04	NO	

Microlog Pad				
TPUL	Tension Pull	22.83	NO	
MINV	Microlog Lateral	22.83	BLK	0.750
MNOR	Microlog Normal	22.83	BLK	0.750

Data: DOWELL_1_33\0001 TRIPLE COMBO\DLLE	Date: 13-Aug-12 20:07:49
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COMPANY	HARTMAN OIL CO.
WELL	DOWELL 1-33

FIELD	WILDCAT		
COUNTY	GOVE	STATE	KANSAS
HALLIBURTON		MICROLOG	