HALLIBURTON

MICROLOG

COMPANY	VESS OIL CORPORATION
WELL	McCORD A-20H
FIELD	BEMIS-SHUTTS
COUNTY	ELLIS
STATE	KANSAS

COMPANY **VESS OIL CORPORATION**
WELL **McCORD A-20H**
FIELD **BEMIS-SHUTTS**
COUNTY **ELLIS** STATE **KANSAS**

API No. 15-051-26218
Location 1680' FNL & 788' FEL

Other Services:
ACRT
WSTT
DSNT/SDLT

Sect. 26 Twp. 11S Rge. 17W

Permanent Datum	GL	Elev. 2091.0 ft	Elev.: K.B. 2100.0 ft
Log measured from	KB	9.0 ft above perm. Datum	D.F. 2099.0 ft
Drilling measured from	KB		G.L. 2091.0 ft

Date	11-Nov-11		
Run No.	2		
Depth - Driller	3740.00 ft		
Depth - Logger	3737.0 ft		
Bottom - Logged Interval	3732 ft		
Top - Logged Interval	2700 ft		
Casing - Driller	9.625 in @ 1279.0 ft	@	@
Casing - Logger	1279.0 ft		
Bit Size	8.750 in	@	@
Type Fluid in Hole	WATER BASED MUD		
Density / Viscosity	9.2 ppg / 55.00 s/qt		
PH / Fluid Loss	10.50 pH / 6.4 cptm		
Source of Sample	FLOWLINE		
Rm @ Meas. Temperature	0.700 ohmm @ 78.00 degF	@	@
Rmf @ Meas. Temperature	0.60 ohmm @ 75.00 degF	@	@
Rmc @ Meas. Temperature	0.820 ohmm @ 75.00 degF	@	@
Source Rmf / Rmc	MEASURED / MEASURED		
Rm @ BHT	0.56 ohmm @ 100.0 degF	@	@
Time Since Circulation	12.5 hr		
Time on Bottom	11-Nov-11 12:36		
Max. Rec. Temperature	100.0 degF @ 3737.0 ft	@	@
Equipment / Location	10782954 / LIBERAL		
Recorded By	C. MARLOWE		
Witnessed By	R. MARTIN	M. ANDREPONT	P. CANADAY

Fold here

Service Ticket No.: 9041284 API Serial No.: 15-051-26218 PGM Version: WL INSITE R3.4.2 (Build 2)

CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE					
Date	Sample No.				
Depth-Driller					
Type Fluid in Hole					
Density	Viscosity				
Ph	Fluid Loss				
Source of Sample					
Rm @ Meas. Temp		@		@	
Rmf @ Meas. Temp.		@		@	
Rmc @ Meas. Temp.		@		@	
Source Rmf	Rmc				
Rm @ BHT		@		@	
Rmf @ BHT		@		@	
Rmc @ BHT		@		@	

RESISTIVITY SCALE CHANGES			
Type Log	Depth	Scale Up Hole	Scale Down Hole

RESISTIVITY EQUIPMENT DATA				
Run No.	Tool Type & No.	Pad Type	Tool Pos.	Other
TWO	MICROLOG	RUBBER	ADJ	N/A

EQUIPMENT DATA

GAMMA		ACOUSTIC		DENSITY		NEUTRON	
Run No.	ONE	Run No.		Run No.	ONE	Run No.	ONE
Serial No.	10748374	Serial No.		Serial No.	I066_M73803_P90	Serial No.	10755066
Model No.	GTET	Model No.		Model No.	SDLT	Model No.	DSNT
Diameter	3.625"	No. of Cent.		Diameter	4.75"	Diameter	3.625"
Detector Model No.	T-102	Spacing		Log Type	GAM-GAM	Log Type	NEU-NEU
Type	SCINT			Source Type	CS 137	Source Type	AM241BE
Length	8"	LSA [Y/N]		Serial No.	5073GW	Serial No.	DSN-436
Distance to Source	15"	FWDA [Y/N]		Strength	1.5 CI	Strength	15 CI

LOGGING DATA

GENERAL	GAMMA	ACOUSTIC	DENSITY	NEUTRON

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	TD	2700	REC`	10	150				30	-10	2.71	30	-10	LIME

DIRECTIONAL INFORMATION

Maximum Deviation	2100.00 deg	@	2099.00 ft	KOP	@	2091.00 ft

Remarks: ANNULAR HOLE VOLUME CALCULATED FOR 7 INCH CASING

CHLORIDES REPORTED AT 3400 PPM

GPS COORDINATES: 3º04' N & 99º10' W

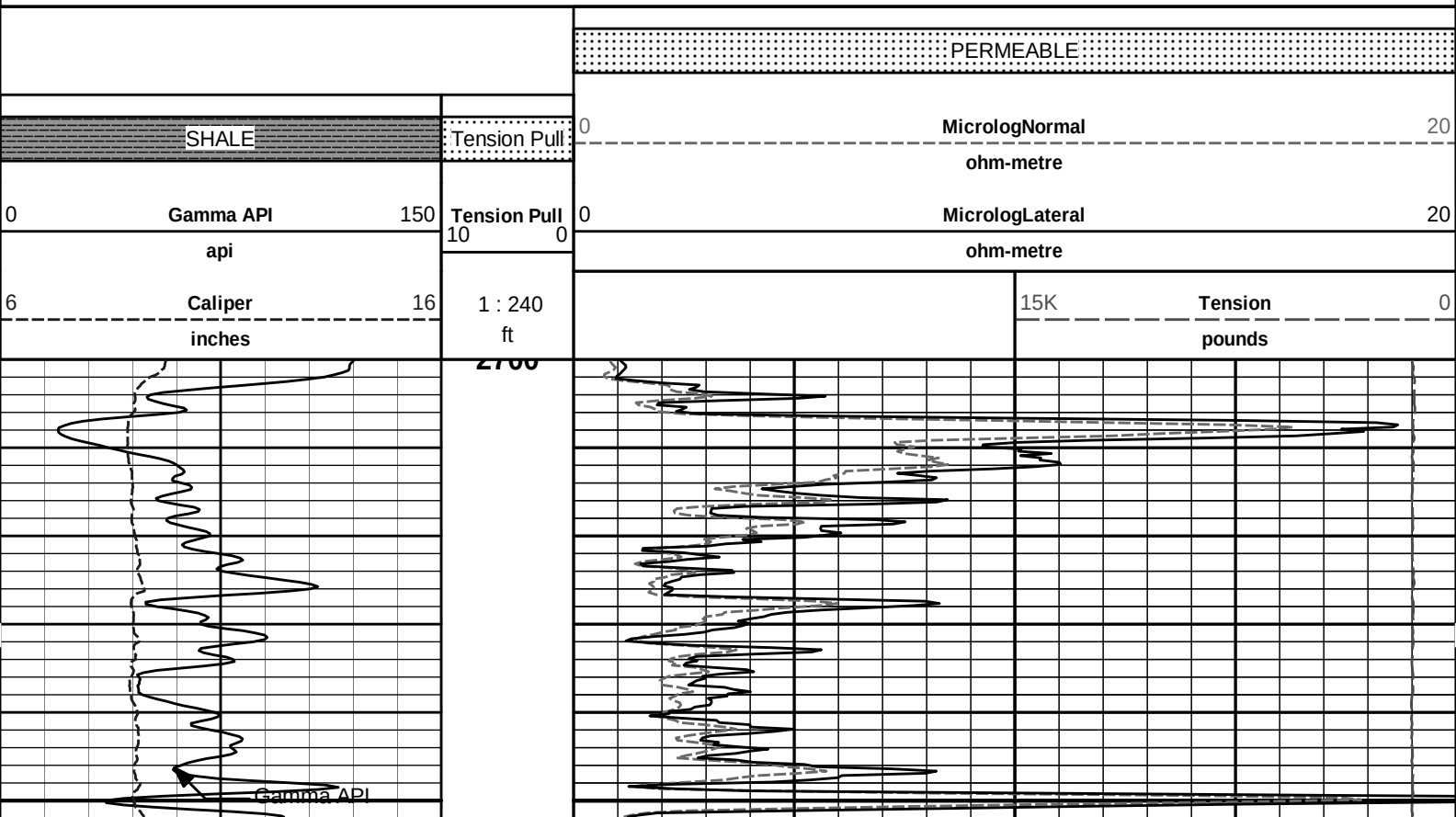
TODAY'S CREW: F. VILLA, A. VAQUERA

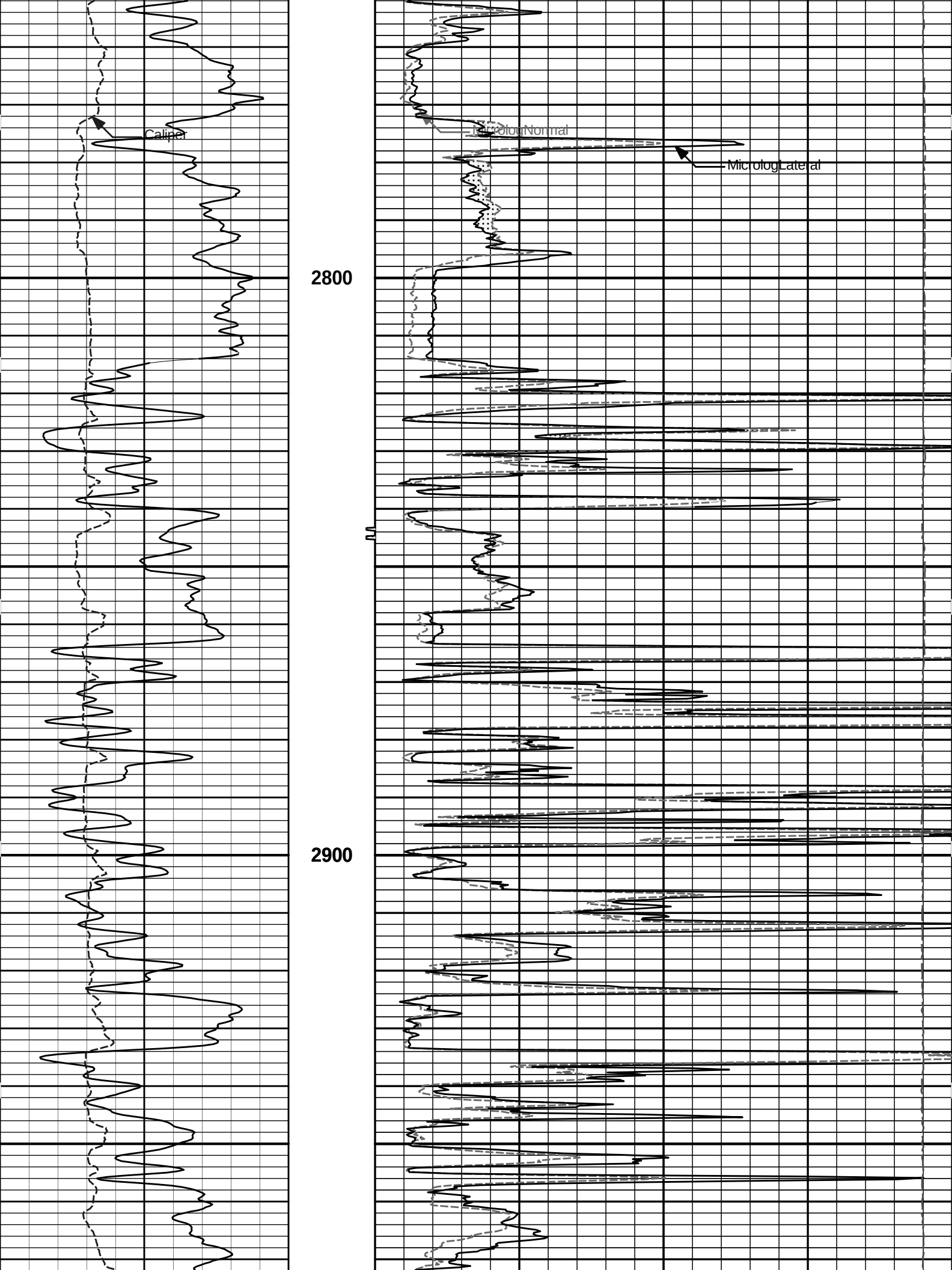
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES: LIBERAL, KS 620-624-8123

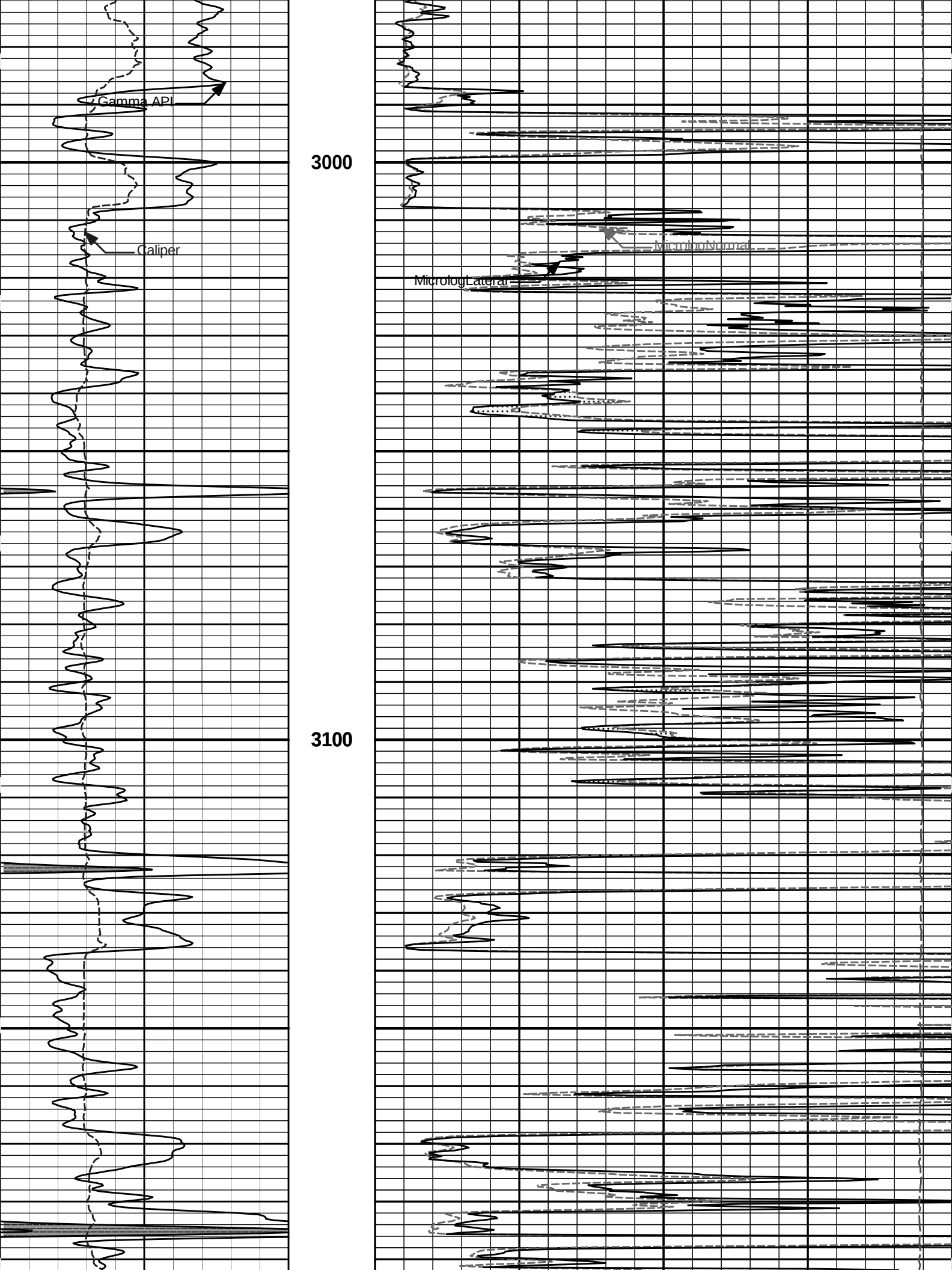
HALLIBURTON

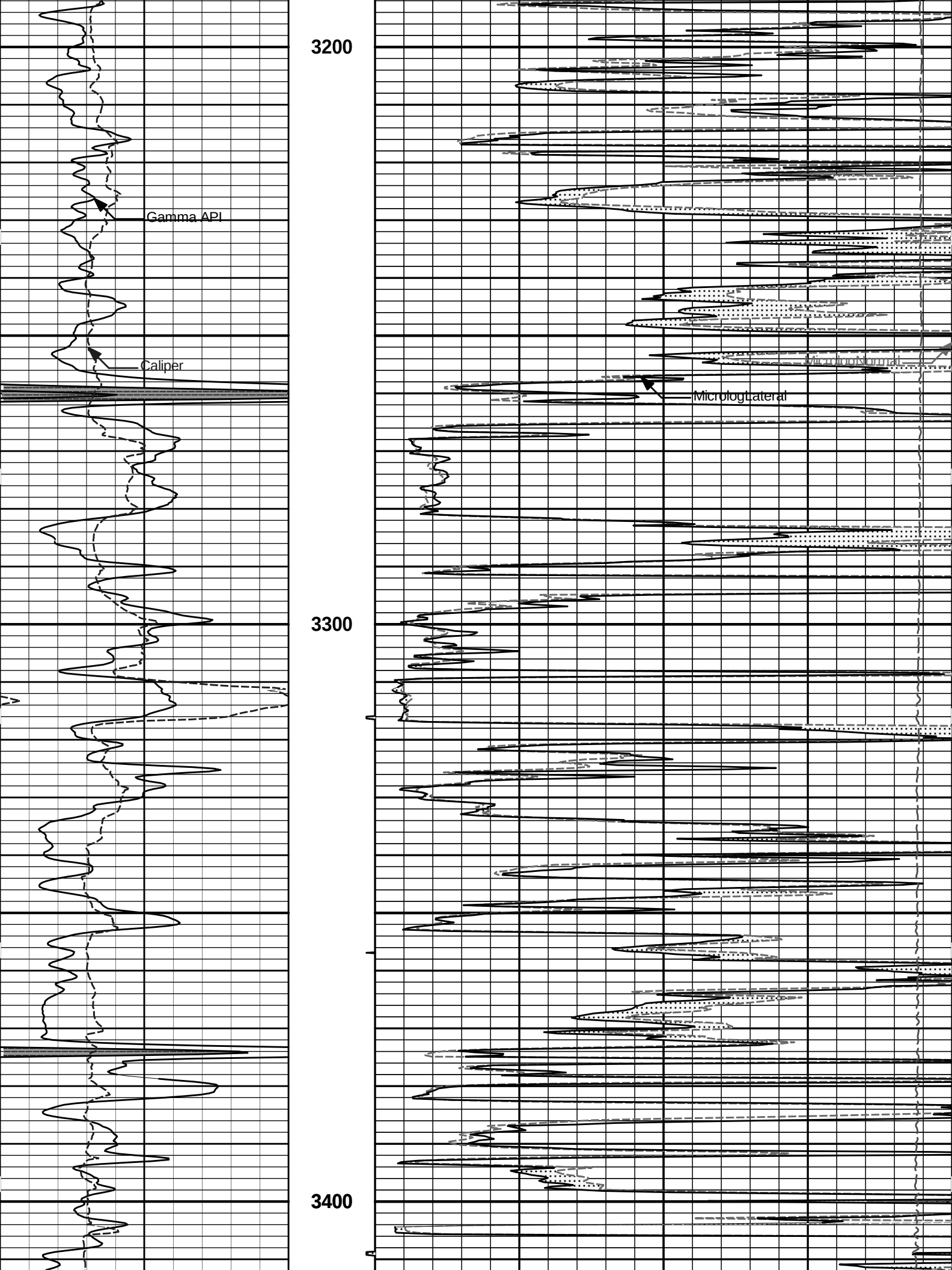
Plot Time: 11-Nov-11 16:23:40
Plot Range: 2700 ft to 3748.17 ft
Data: MCCORD_A_20H\Well Based\DETAIL2
Plot File: \\-LOCAL-\MCCORD_A_20H\0003 SP-GTET-FLEX-IDT-WSTT\MICROLOG\Microlog_IQ_5_main_lib

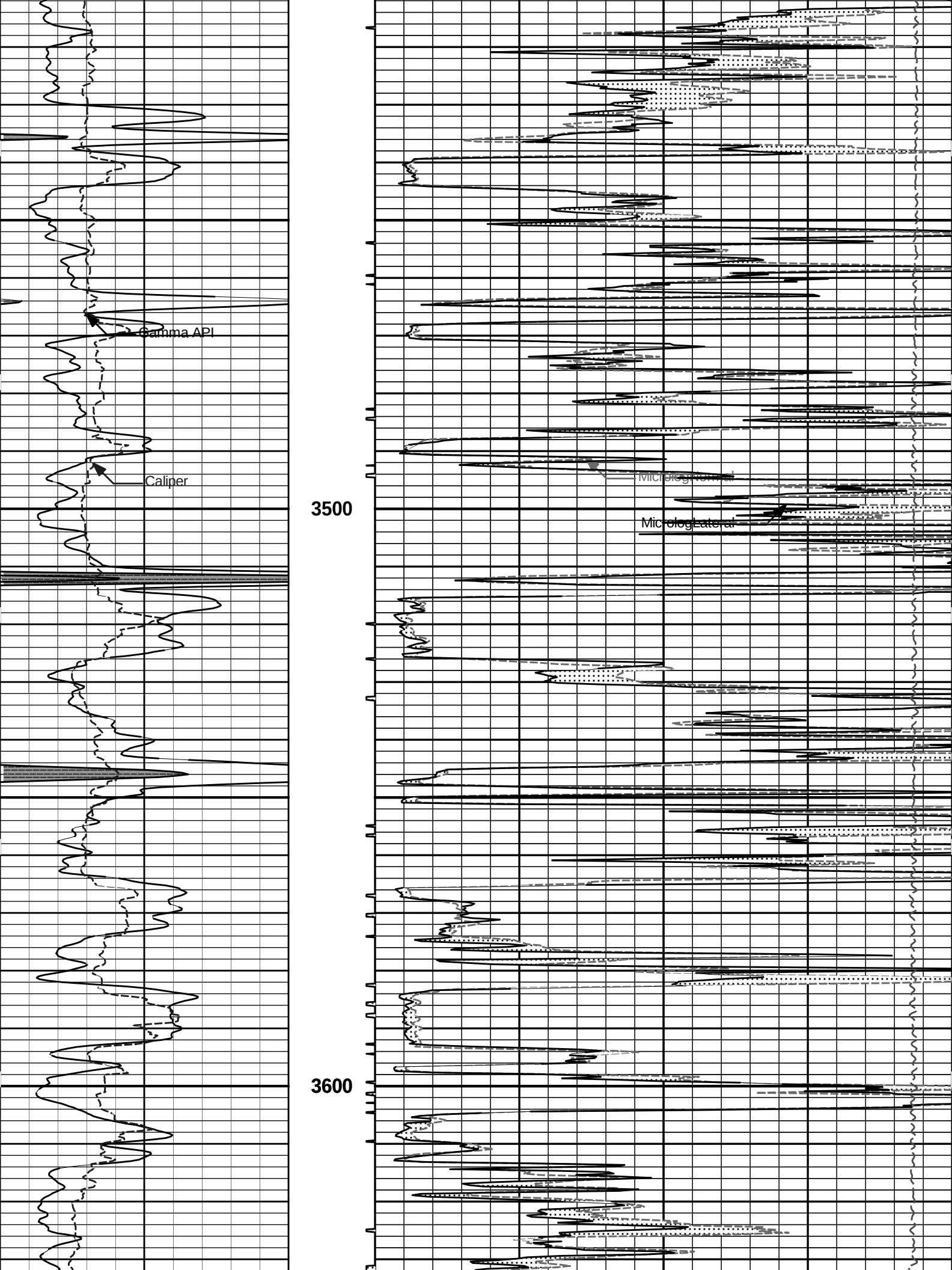
5 INCH MAIN LOG

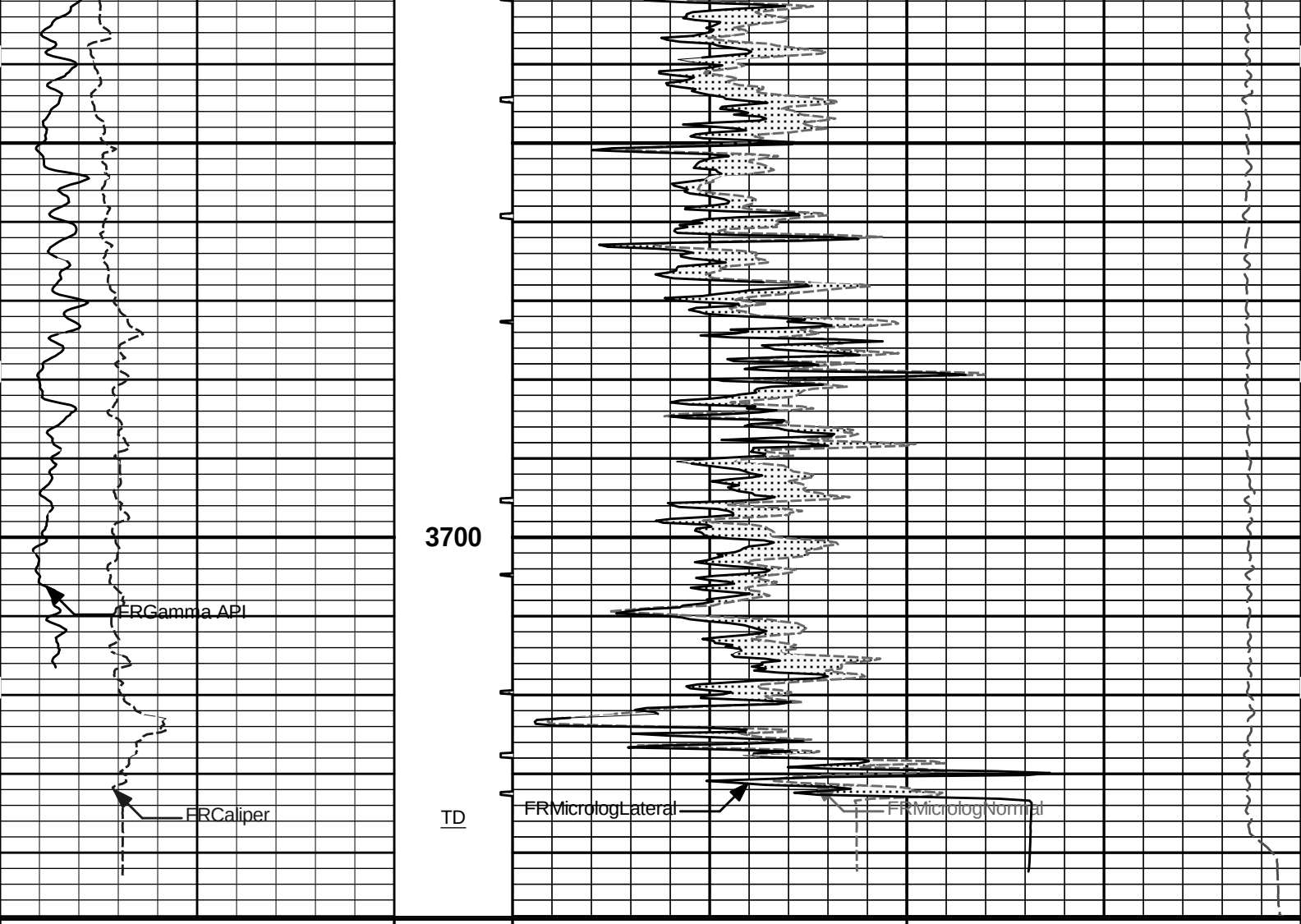



Caliper
MicrologNormal
MicrologLateral
2800
2900


Gamma API
Caliper
3000
MicrologNormal
MicrologLateral
3100


3200
Gamma API
Caliper
MicrologNormal
MicrologLateral
3300
3400


Gamma API
Caliper
3500
MicrologNormal
MicrologLateral
3600



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

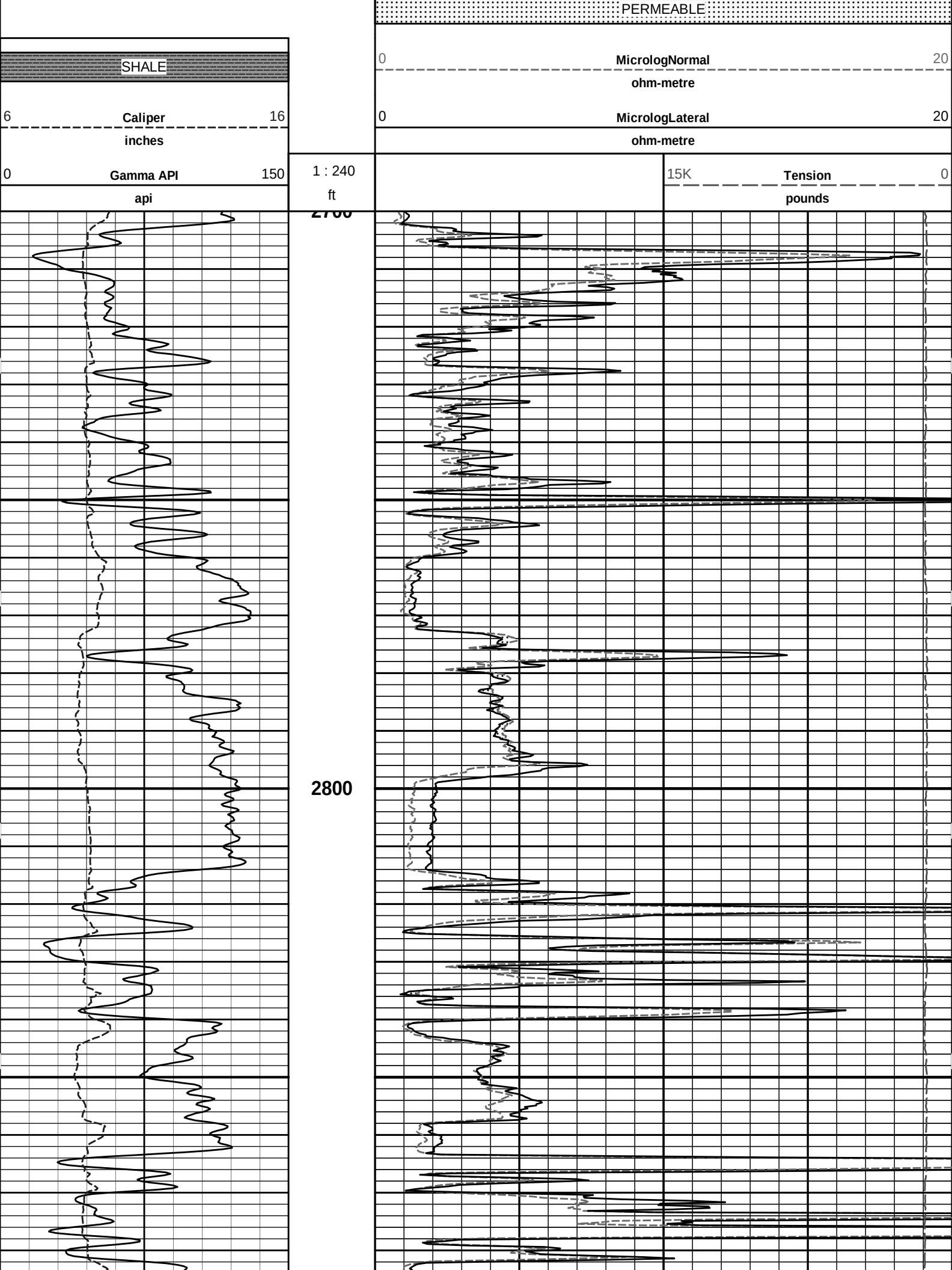
Plot Time: 11-Nov-11 16:23:42
Plot Range: 2700 ft to 3748.17 ft
Data: MCCORD_A_20H\Well Based\DETAIL2\
Plot File: \\-LOCAL-\MCCORD_A_20H\0003 SP-GTET-FLEX-IDT-WSTT\MICROLOG\Microlog_IQ_5_main_lib

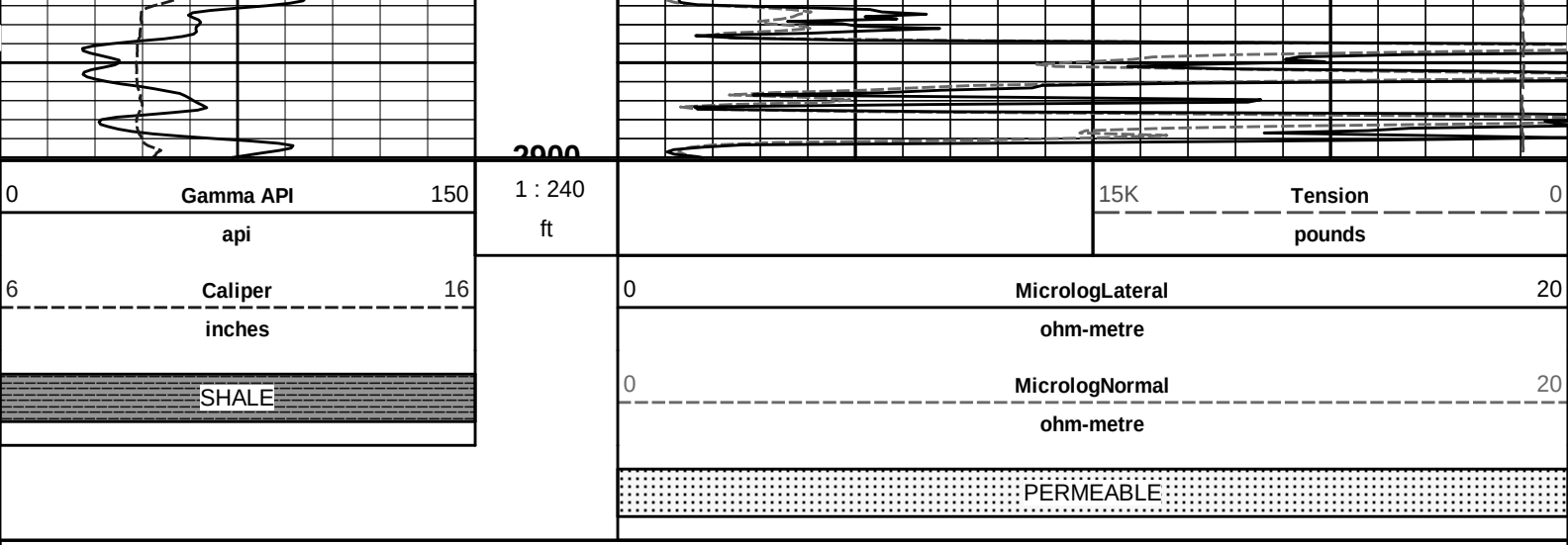
5 INCH MAIN LOG

HALLIBURTON

Plot Time: 11-Nov-11 16:23:42
Plot Range: 2700 ft to 2900 ft
Data: MCCORD_A_20H\Well Based\DAQ-0002-002\
Plot File: \\-LOCAL-\MCCORD_A_20H\0003 SP-GTET-FLEX-IDT-WSTT\MICROLOG\Microlog_IQ_5_rep_lib

REPEAT SECTION


PERMEABLE
SHALE
0
MicrologNormal
20
ohm-metre
6
Caliper
16
inches
0
MicrologLateral
20
ohm-metre
0
Gamma API
150
api
1 : 240
ft
15K
Tension
0
pounds
2800



HALLIBURTON

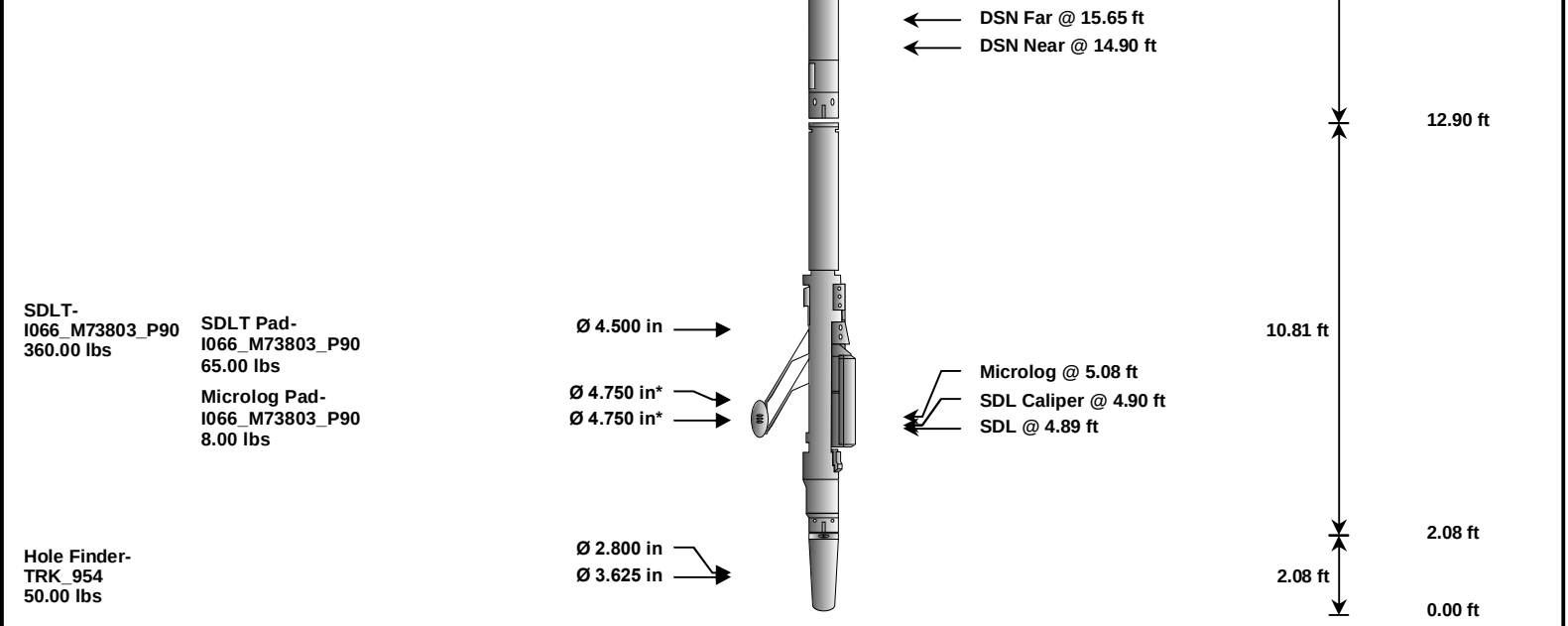
Plot Time: 11-Nov-11 16:23:43
Plot Range: 2700 ft to 2900 ft
Data: MCCORD_A_20H\Well Based\DAQ-0002-002
Plot File: \\-LOCAL-\MCCORD_A_20H\0003 SP-GTET-FLEX-IDT-WSTT\MICROLOG\Microlog_IQ_5_rep_lib

REPEAT SECTION

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
						42.43 ft
Cable Head-PROT01 30.00 lbs		Ø 3.625 in			1.92 ft	
						40.51 ft
SP Sub-TRK954 60.00 lbs		Ø 3.625 in		SP @ 38.73 ft	3.74 ft	
						36.77 ft
GTET-10748374 165.00 lbs		Ø 3.625 in		GammaRay @ 30.71 ft	8.52 ft	
						28.25 ft
Flex Joint-001 140.00 lbs		Ø 3.625 in			5.67 ft	
						22.58 ft
DSNT-10755066 174.00 lbs	DSN Decentralizer-10735145 6.60 lbs	Ø 5.000 in* Ø 3.625 in			9.69 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		40.51	300.00
SP	SP Sub	TRK954	60.00	3.74		36.77	300.00
GTET	Gamma Telemetry Tool	10748374	165.00	8.52		28.25	60.00
FLEX	Flex Joint	001	140.00	5.67		22.58	300.00
DSNT	Dual Spaced Neutron	10755066	174.00	9.69		12.90	60.00
DCNT	DSN Decentralizer	10735145	6.60	5.13	*	16.23	300.00
SDLT	Spectral Density Tool	I066_M73803_P90	360.00	10.81		2.08	60.00
MICP	Microlog Pad	I066_M73803_P90	8.00	1.00	*	4.58	60.00
SDLP	Density Insite Pad	I066_M73803_P90	65.00	2.55	*	4.29	60.00
HFND	Hole Finder	TRK_954	50.00	2.08		0.00	300.00
Total			**1,058.60**	**42.43**			

* Not included in Total Length and Length Accumulation.

Data: MCCORD_A_20H\0002 SP-GTET-FLEX-DSN-SDL-HOLEFINDER\IDLE **Date: 11-Nov-11 11:52:09**

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:	**GTET - 10748374**	**Reference Calibration Date:**	**09-Aug-11 05:40:36**
Engineer:	**C. MARLOWE**	**Calibration Date:**	**02-Nov-11 10:46:23**
Software Version:	**WL INSITE R3.4.2 (Build 2)**	**Calibration Version:**	**1**

Calibrator Source S/N: TB-185

Calibrator API Reference:228.00 api

Equivalent Calibrator API Reference:232.0 api

Measurement	Measured	Calibrated	Units
Background	57.6	58.9	api
Background + Calibrator	284.6	290.9	api
Calibrator	226.9	232.0	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name:	**GTET - 10748374**	**Reference Calibration Date:**	**02-Nov-11 10:46:23**
Engineer:	**C. HAVERKAMP**	**Calibration Date:**	**10-Nov-11 15:15:49**
Software Version:	**WL INSITE R3.4.2 (Build 2)**	**Calibration Version:**	**1**

Calibrator Source S/N: TB-185

Calibrator Source S/N: TB-185
Calibrator API Reference:228.00 api
Equivalent Calibrator API Reference:232.0 api

Field Verification	Shop	Field	Units
Background	58.9	29.5	api
Background + Calibrator	290.9	268.9	api
Calibrator	232.0	239.4	api

Shop	Field	Difference	Tolerance
232.0	239.4	-7.4	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name:	**DSNT - 10755066**	**Reference Calibration Date:**	**22-Sep-11 16:20:33**
Engineer:	**C. HAVERKAMP**	**Calibration Date:**	**06-Nov-11 14:36:25**
Software Version:	**WL INSITE R3.4.2 (Build 2)**	**Calibration Version:**	**1**

Logging Source S/N: DSN-436
Tank Serial Number: 105060
Reference value assigned to Tank: 51.680
Snow Block S/N: TRK_10782954
Calibration Tank Water Temperature: 60 degF
Min. Tool Housing Outside Diameter: 3.615 in

CALIBRATION CONSTANTS

Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.949	0.949	0.900 - 1.100

WATER TANK SUMMARY (Horizontal Water Tank)

Measurement	Current Reading (Previous Coef.)	Calibrated (New Coef.)	Change	Control Limit On Change
Porosity (decp):	0.2101	0.2103	0.0001	+/- 0.0020
Calibrated Ratio:	9.70	9.70	0.005	+/- 0.050

VERIFIER

Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0536	0.02000 - 0.09000

PASS/FAIL SUMMARY

Background Check:	Passed
Gain-Range Check:	Passed
Snow-Block Check:	Passed

DUAL SPACED NEUTRON FIELD CALIBRATION

Tool Name:	**DSNT - 10755066**	**Reference Calibration Date:**	**06-Nov-11 14:36:25**
Engineer:	**C. HAVERKAMP**	**Calibration Date:**	**10-Nov-11 15:19:04**
Software Version:	**WL INSITE R3.4.2 (Build 2)**	**Calibration Version:**	**1**

Logging Source S/N: DSN-436
Snow Block S/N: TRK_10782954

NEUTRON FIELD-CHECK SUMMARY

	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0536	0.0548	0.0012	+/- 0.0150

PASS/FAIL SUMMARY	
Block Change Check:	Passed
Snow Block Stat Check:	Passed
Temperature Check:	Passed

DENSITY CALIPER SHOP CALIBRATION

Tool Name: SDLT - I066_M73803_P90 **Reference Calibration Date:** 18-Apr-11 16:28:53

Engineer: C. HAVERKAMP **Calibration Date:** 10-Nov-11 15:30:03

Software Version: WL INSITE R3.4.2 (Build 2) **Calibration Version:** 1

CALIBRATION COEFFICIENTS

Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-2471.75	-2782.33	-7000.00 - -1000.00
Pad Gain	0.0003949	0.0003968	0.000200 - 0.000600
Arm Offset	-1655.13	-1328.61	-5000.00 - 3000.00
Arm Gain	0.0005196	0.0005335	0.000300 - 0.000700
Arm Power	-0.000005277	-0.000006032	-0.000010 - 0.000010

The ring diameter is computed from: DIAMETER = PAD EXTENSION + ARM EXTENSION + TOOL DIAMETER

Tool Diameter: 4.50 in

CALIBRATION RINGS

Measurement	Current Reading (Previous Coeff.)	Calibrated (New Coeff.)	Change	Control Limit On New Value
PAD EXTENSION:				
Small Ring (in)	2.11	2.00	-0.11	+/- 0.20
Medium Ring (in)	3.85	3.75	-0.10	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.41	6.50	0.09	+/- 0.20
Medium Ring (in)	8.14	8.25	0.11	+/- 0.20
Large Ring (in)	14.93	15.00	0.07	+/- 0.20

PASS/FAIL SUMMARY	
Calibration-Coefficients Range Check:	Passed
Ring-Measurement Check:	Passed

PASS/FAIL SUMMARY	
Calibration-Coefficients Range Check:	Passed

SDLT CALIPER FIELD CALIBRATION

Tool Name: SDLT - I066_M73803_P90 **Reference Calibration Date:** 10-Nov-11 15:30:03

Engineer: C. HAVERKAMP **Calibration Date:** 10-Nov-11 15:32:55

Software Version: WL INSITE R3.4.2 (Build 2) **Calibration Version:** 1

MEASURED CALIPER VALUES

Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.76	0.01	+/- 0.10
Ring Diameter	8.25	8.29	0.04	+/- 0.15

PASS/FAIL SUMMARY	
Pad Extension Check:	Passed
Diameter Check:	Passed

SPECTRAL DENSITY SHOP CALIBRATION

Tool Name: SDLT Pad - I066_M73803_P90 **Reference Calibration Date:** 09-Nov-11 12:01:02

Engineer: C. HAVERKAMP **Calibration Date:** 09-Nov-11 12:19:53

Software Version: WL INSITE R3.4.2 (Build 2) **Calibration Version:** 1

Logging Source S/N: 5073GW

Aluminum Block S/N: 63061 Density: 2.591g/cc Pe: 3.170

Magnesium Block S/N: 63393 Density: 1.690g/cc Pe: 2.594

DENSITY CALIBRATION SUMMARY

Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	0.9687	0.9764	0.90 - 1.10
Near Dens Gain	0.9735	0.9708	0.90 - 1.10
Near Peak Gain	0.9769	0.9784	0.90 - 1.10
Near Lith Gain	0.9623	0.9630	0.90 - 1.10
Far Bar Gain	0.9880	0.9890	0.90 - 1.10
Far Dens Gain	0.9793	0.9811	0.90 - 1.10
Far Peak Gain	0.9742	0.9723	0.90 - 1.10
Far Lith Gain	0.9433	0.9438	0.90 - 1.10
Near Bar Offset	0.4631	0.3922	NONE
Near Dens Offset	0.4004	0.4235	NONE
Near Peak Offset	0.3535	0.3396	NONE
Near Lith Offset	0.4564	0.4481	NONE
Far Bar Offset	0.2061	0.1937	NONE
Far Dens Offset	0.2602	0.2445	NONE
Far Peak Offset	0.2444	0.2610	NONE
Far Lith Offset	0.3914	0.3873	NONE
Near Bar Background	889.85	890.93	700 - 1450
Near Dens Background	294.40	295.52	230 - 480
Near Peak Background	129.16	130.19	100 - 210
Near Lith Background	158.35	159.12	125 - 260
Far Bar Background	599.23	598.12	450 - 900
Far Dens Background	235.93	236.46	175 - 345
Far Peak Background	92.44	92.56	70 - 140
Far Lith Background	97.40	98.43	75 - 145

CALIBRATION BLOCK SUMMARY

Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.690	1.690	0.000	+/- 0.015
Pe	2.530	2.550	0.020	+/- 0.150
ALUMINUM				
Density (g/cc)	2.590	2.591	0.001	+/- 0.01500
Pe	3.116	3.124	0.008	+/- 0.150

TOOL SUMMARY

Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	0.0008	+/- 0.0110	-0.0015	+/- 0.0140
Magnesium Block	-0.0009	+/- 0.0110	0.0002	+/- 0.0140
Aluminum Block	0.0006	+/- 0.0110	-0.0001	+/- 0.0140
Resolution	8.87	6.00 - 11.50	8.97	6.00 - 11.50
Internal Verifier(B+D+P+L)	1476	1200 - 2700	1026	800 - 1700

PASS/FAIL SUMMARY	
Background Quality Check:	Passed
Background Range Check:	Passed
Background Resolution Check:	Passed
Background Verification Check:	Passed
Magnesium Quality Check:	Passed
Aluminum Quality Check:	Passed
Gains Check:	Passed
Changes in Calibration Blocks:	Passed

SPECTRAL DENSITY FIELD CHECK

Tool Name: SDLT Pad - I066_M73803_P90 **Reference Calibration Date:** 09-Nov-11 12:19:53

Engineer: C. HAVERKAMP **Calibration Date:** 10-Nov-11 15:15:07

Software Version: WL INSITE R3.4.2 (Build 2) **Calibration Version:** 1

Pad Temperature: 61.1 degF

DENSITY FIELD CALIBRATION SUMMARY

Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1475.756	1472.193	-3.563	15.487
Far (B+D+P+L) cps	1025.566	1019.867	-5.699	17.077
Near Resolution	8.87	8.89	0.020	0.50
Far Resolution	8.97	9.09	0.120	1.00

PASS/FAIL SUMMARY	
Bkg Quality Check:	Passed
Bkg Resolution Check:	Passed
Bkg Verification Check:	Passed

MICRO LOG SHOP CALIBRATION

Tool Name: Microlog Pad - I066_M73803_P90 **Reference Calibration Date:** 21-Jan-11 12:40:57

Engineer: C. HAVERKAMP **Calibration Date:** 10-Nov-11 15:35:12

Software Version: WL INSITE R3.4.2 (Build 2) **Calibration Version:** 1

CALIBRATION COEFFICIENT SUMMARY

Measurement	Micro Log Normal		Micro Log Lateral		
	Measured	Calibrated	Measured	Calibrated	Units
Tool Zero	-0.08	-0.09	-0.00	-0.00	ohmm
Calibration Point #1	0.01	0.00	-0.00	0.00	ohmm
Calibration Point #2	19.50	20.00	20.37	20.00	ohmm
Internal Reference	20.00	20.51	19.93	19.56	ohmm

Measurement	Micro Log Normal Tool Value	Micro Log Lateral Tool Value	Units
Tool Zero	-2.04	0.97	V
Calibration Point #1	21.81	1.02	V
Calibration Point #2	5147.53	7025.88	V
Internal Reference	5279.27	6871.04	V

MICRO LOG FIELD CHECK

Tool Name: Microlog Pad - I066_M73803_P90 **Reference Calibration Date:** 10-Nov-11 15:35:12

Engineer: C. HAVERKAMP **Calibration Date:** 10-Nov-11 15:35:46

Software Version: WL INSITE R3.4.2 (Build 2) **Calibration Version:** 1

Measurement	Micro Log Normal		Micro Log Lateral		
	Shop	Field	Shop	Field	Units
Tool Zero	-0.09	-0.10	-0.00	0.00	ohmm
Internal Reference	20.51	20.52	19.56	19.56	ohmm

Summary				
Signal	Shop	Field	Difference	Tolerence
Microlog Normal	20.51	20.52	-0.01	+/- 0.80
Microlog Lateral	19.56	19.56	0.00	+/- 0.80

CALIBRATION SUMMARY

Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-10748374						
Gamma Ray Calibrator	232.0	239.4	----------	-7.4	+/- 9.00	api
DSNT-10755066						
Snow-Block Porosity	0.0536	0.0548	----------	-0.0012	+/- 0.0150	decp
SDLT-I066_M73803_P90						
Pad Extension	3.75	3.76	----------	-0.01	+/-0.10	in
Ring Diameter	8.25	8.29	----------	-0.040	+/-0.15	in
SDLT Pad-I066_M73803_P90						
Near(B+D+P+L)	1475.756	1472.193	----------	3.563	+/-15.487	cps
Far(B+D+P+L)	1025.566	1019.867	----------	5.699	+/-17.077	cps
Microlog Pad-I066_M73803_P90						
MicroLog Normal	20.51	20.52	----------	-0.01	+/-0.80	ohmm
MicroLog Lateral	19.56	19.56	----------	0.00	+/-0.80	ohmm

Data: MCCORD_A_20H\0002 SP-GTET-FLEX-DSN-SDL-HOLEFINDER\IDLE **Date: 11-Nov-11 12:43:39**

HALLIBURTON

PARAMETERS REPORT

Depth ((ft))	Tool Name	Mnemonic	Description	Value	Units
TOP					
	SHARED	BS	Bit Size	8.750	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	0.00	ppm
	SHARED	FSAL	Formation Salinity NaCl	0.00	ppm
	SHARED	KPCT	Percent K in Mud by Weight?	0.00	%
	SHARED	RMUD	Mud Resistivity	0.700	ohmm
	SHARED	TRM	Temperature of Mud	78.0	degF
	SHARED	CSD	Logging Interval is Cased?	No	
	SHARED	ICOD	AHV Casing OD	7.000	in
	SHARED	ST	Surface Temperature	75.0	degF
	SHARED	TD	Total Well Depth	3737.00	ft
	SHARED	BHT	Bottom Hole Temperature	100.0	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
	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	
BOTTOM					

Data: MCCORD_A_20H\0002 SP-GTET-FLEX-DSN-SDL-HOLEFINDER\IDLE **Date: 11-Nov-11 12:44:45**

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	38.73	NO	
SP	Spontaneous Potential	38.73	BLK	1.250
SPR	Raw Spontaneous Potential	38.73	NO	
SPO	Spontaneous Potential Offset	38.73	NO	
	GTET			
TPUL	Tension Pull	30.71	NO	

TPUL	Tension Pull	30.71	NO	
GR	Natural Gamma Ray API	30.71	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	30.71	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	30.71	W	1.416 , 0.750
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	

DSNT				
TPUL	Tension Pull	14.80	NO	
RNDS	Near Detector Telemetry Counts	14.90	BLK	1.417
RFDS	Far Detector Telemetry Counts	15.65	TRI	0.583
DNTT	DSN Tool Temperature	14.90	NO	
DSNS	DSN Tool Status	14.80	NO	
ERND	Near Detector Telemetry Counts EVR	14.90	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	15.65	BLK	0.000
ENTM	DSN Tool Temperature EVR	14.90	NO	

SDLT				
TPUL	Tension Pull	4.90	NO	
PCAL	Pad Caliper	4.90	TRI	0.250
ACAL	Arm Caliper	4.90	TRI	0.250

SDLT Pad				
TPUL	Tension Pull	4.89	NO	
NAB	Near Above	4.71	BLK	0.920
NHI	Near Cesium High	4.71	BLK	0.920
NLO	Near Cesium Low	4.71	BLK	0.920
NVA	Near Valley	4.71	BLK	0.920
NBA	Near Barite	4.71	BLK	0.920
NDE	Near Density	4.71	BLK	0.920
NPK	Near Peak	4.71	BLK	0.920
NLI	Near Lithology	4.71	BLK	0.920
NBAU	Near Barite Unfiltered	4.71	BLK	0.250
NLIU	Near Lithology Unfiltered	4.71	BLK	0.250
FAB	Far Above	5.06	BLK	0.250
FHI	Far Cesium High	5.06	BLK	0.250
FLO	Far Cesium Low	5.06	BLK	0.250
FVA	Far Valley	5.06	BLK	0.250
FBA	Far Barite	5.06	BLK	0.250
FDE	Far Density	5.06	BLK	0.250
FPK	Far Peak	5.06	BLK	0.250
FLI	Far Lithology	5.06	BLK	0.250
PTMP	Pad Temperature	4.90	BLK	0.920
NHV	Near Detector High Voltage	4.29	NO	
FHV	Far Detector High Voltage	4.29	NO	
ITMP	Instrument Temperature	4.29	NO	
DDHV	Detector High Voltage	4.29	NO	

Microlog Pad				
TPUL	Tension Pull	5.08	NO	
MINV	Microlog Lateral	5.08	BLK	0.750
MNOR	Microlog Normal	5.08	BLK	0.750

Data: MCCORD_A_20H\0002 SP-GTET-FLEX-DSN-SDL-HOLEFINDER\IDLE **Date: 11-Nov-11 12:44:15**

COMPANY **VESS OIL CORPORATION**

WELL	**McCORD A-20H**		
FIELD	**BEMIS-SHUTTS**		
COUNTY	**ELLIS**	STATE	**KANSAS**

HALLIBURTON

MICROLOG