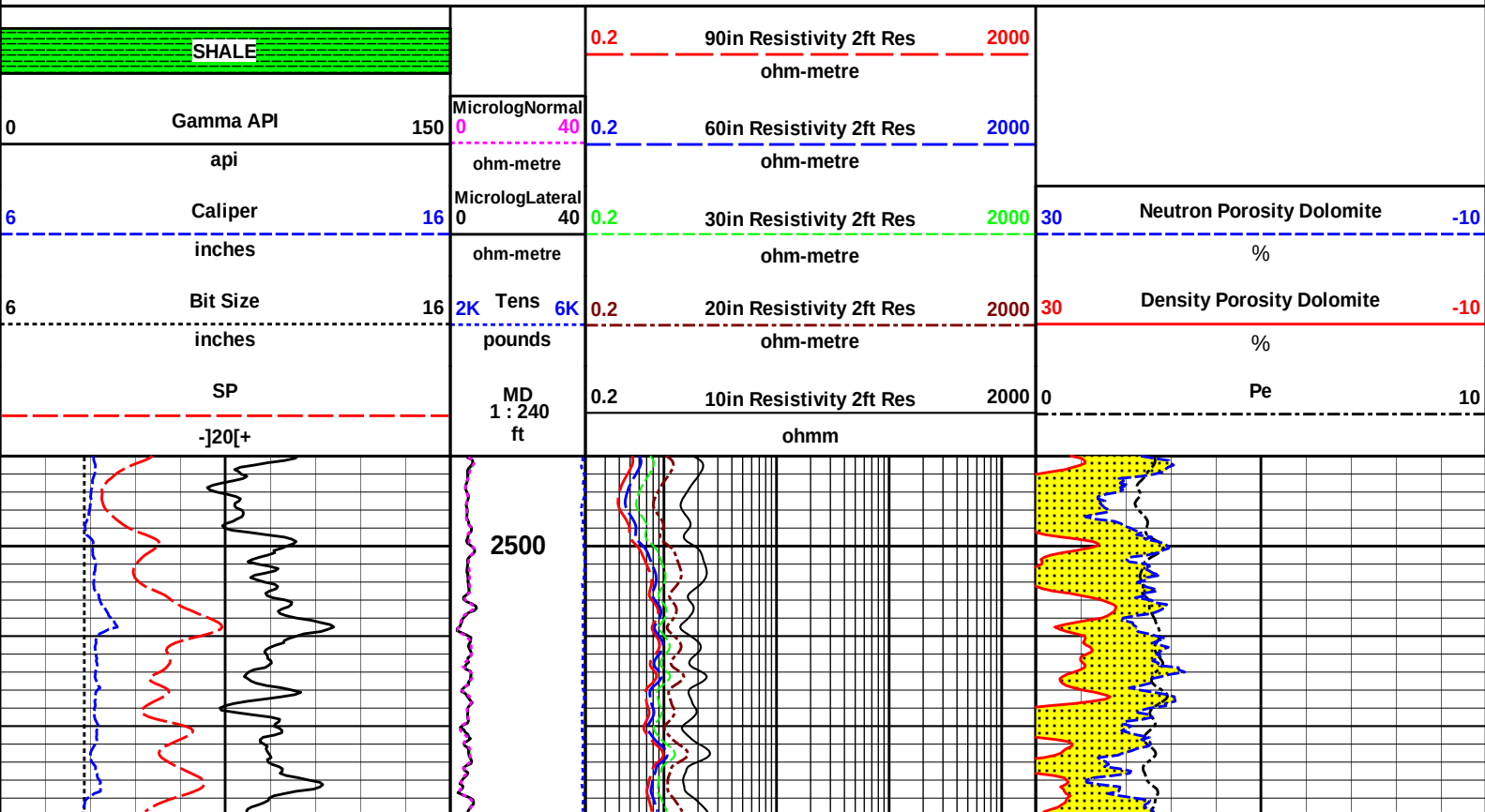


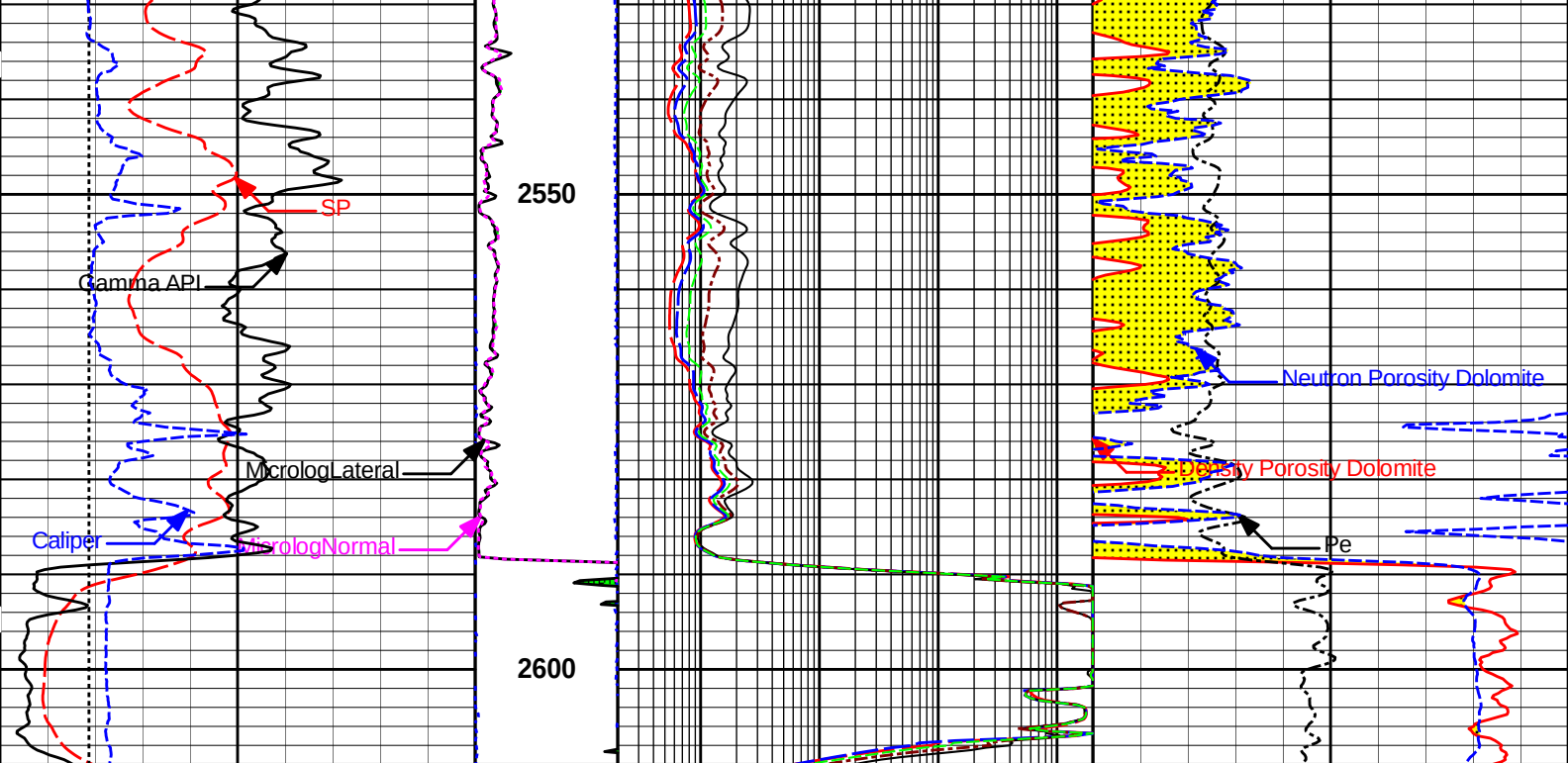
TRIPLE COMBO LOG

Fold here

LOGGING DATA

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	4756	261	REC	0	150				30	-10	2.71	30	-10	LIME
DIRECTIONAL INFORMATION														
Maximum Deviation @								KOP @						
Remarks: ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING														
LCM REPORTED AT 2 PPB														
CHLORIDES REPORTED AT 3000 MG/L														
TODAY'S CREW F. VILLA E. ZAPIEN K. PIDDINGTON														
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES LIBERAL, KANSAS 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.														
HALLIBURTON														





SP	MD 1 : 240 ft	0.2	10in Resistivity 2ft Res	2000	0	Pe	10
-J20[+			ohmm				
6 Bit Size 16	2K Tens 6K	0.2	20in Resistivity 2ft Res	2000	30	Density Porosity Dolomite	-10
inches	pounds		ohm-metre			%	
6 Caliper 16	MicrologLateral 0 40	0.2	30in Resistivity 2ft Res	2000	30	Neutron Porosity Dolomite	-10
inches	ohm-metre		ohm-metre			%	
0 Gamma API 150	MicrologNormal 0 40	0.2	60in Resistivity 2ft Res	2000			
api	ohm-metre		ohm-metre				
SHALE		0.2	90in Resistivity 2ft Res	2000			
			ohm-metre				

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Plot Time: 25-Apr-14 12:36:21
Plot Range: 2490 ft to 2610 ft
Data: BOYD 1-3\Well Based\DAQ-0001-004\
Plot File: \\TC\TC_5_MAIN

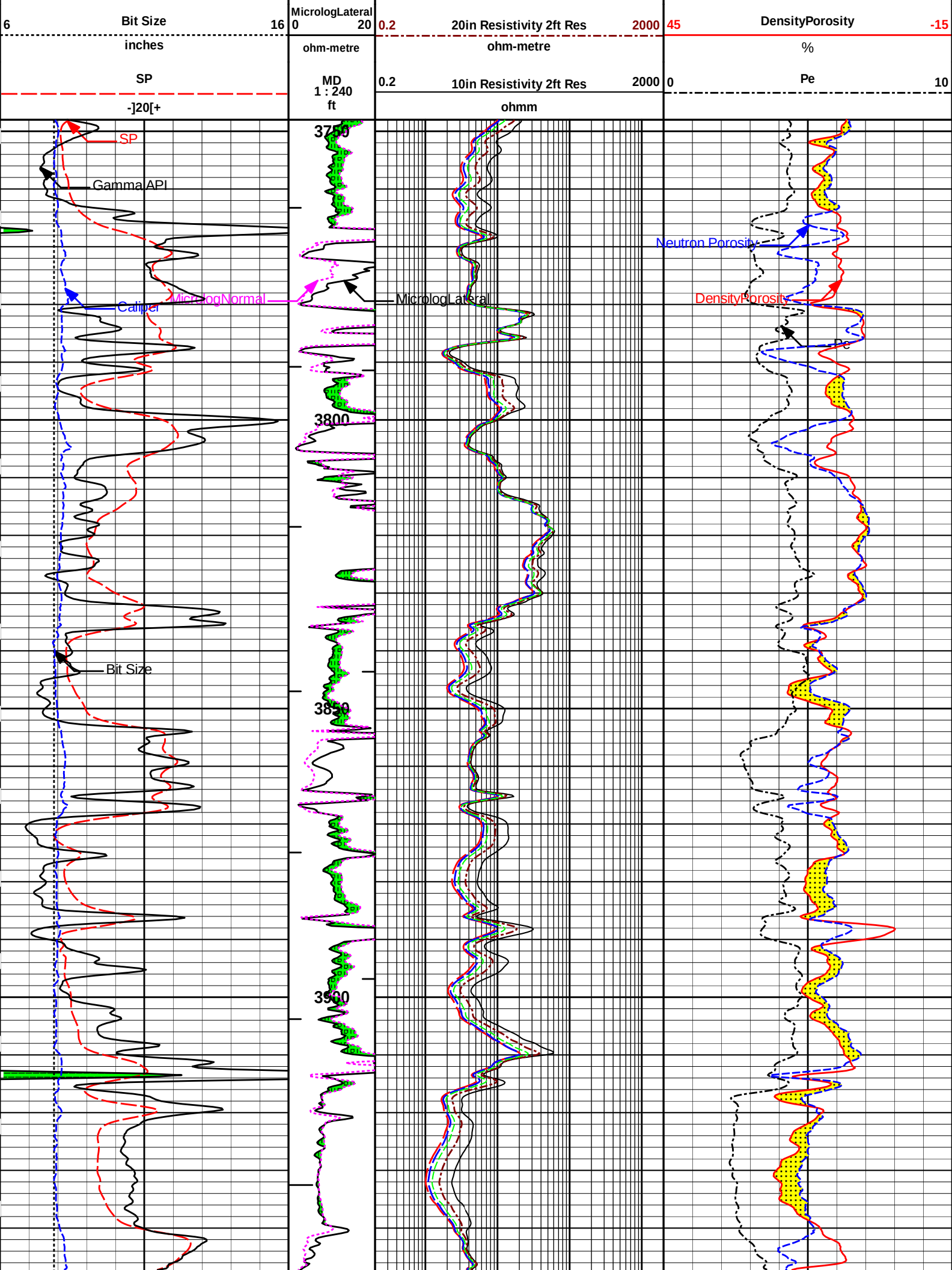
5 INCH MAIN LOG

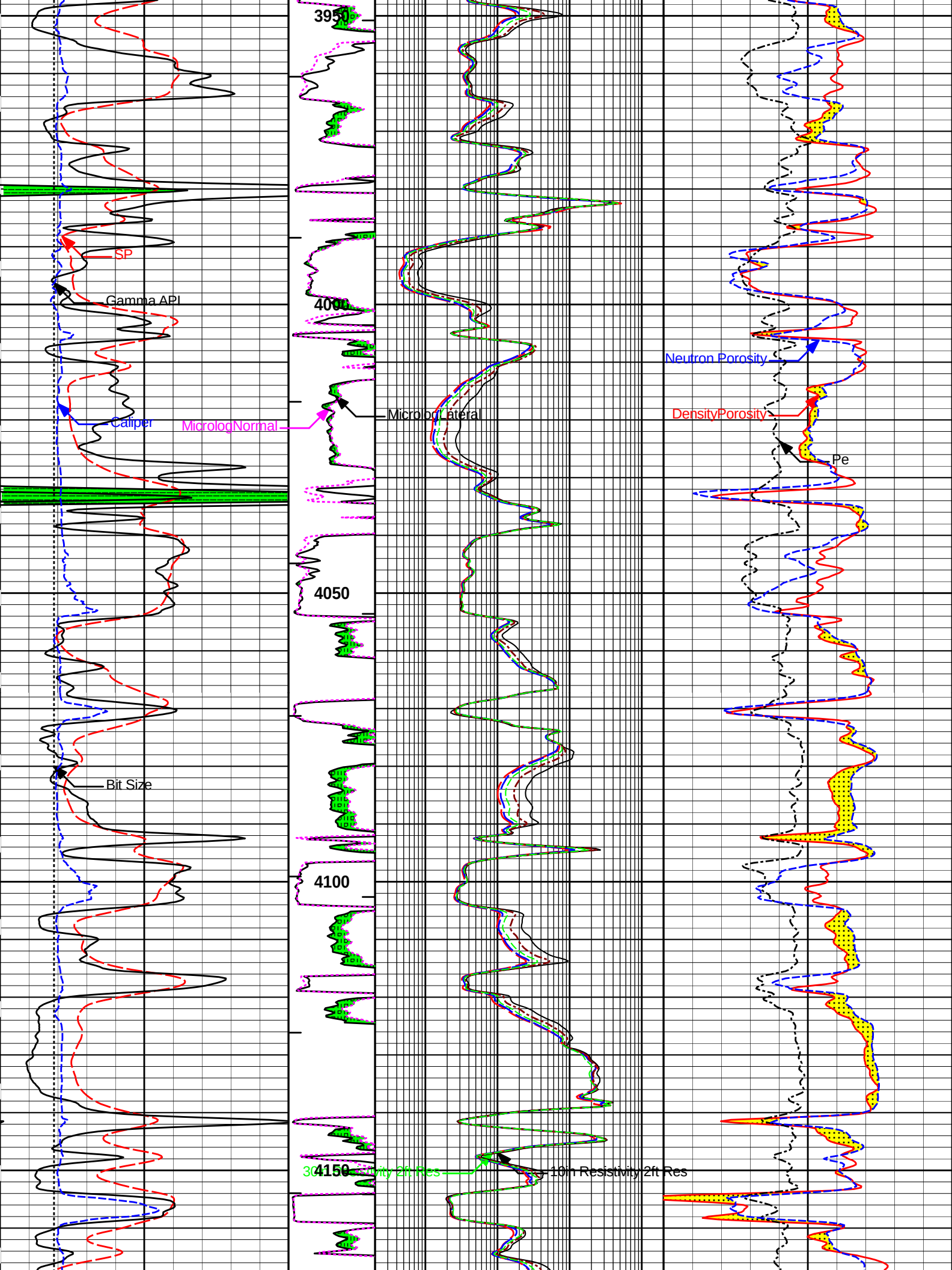
HALLIBURTON

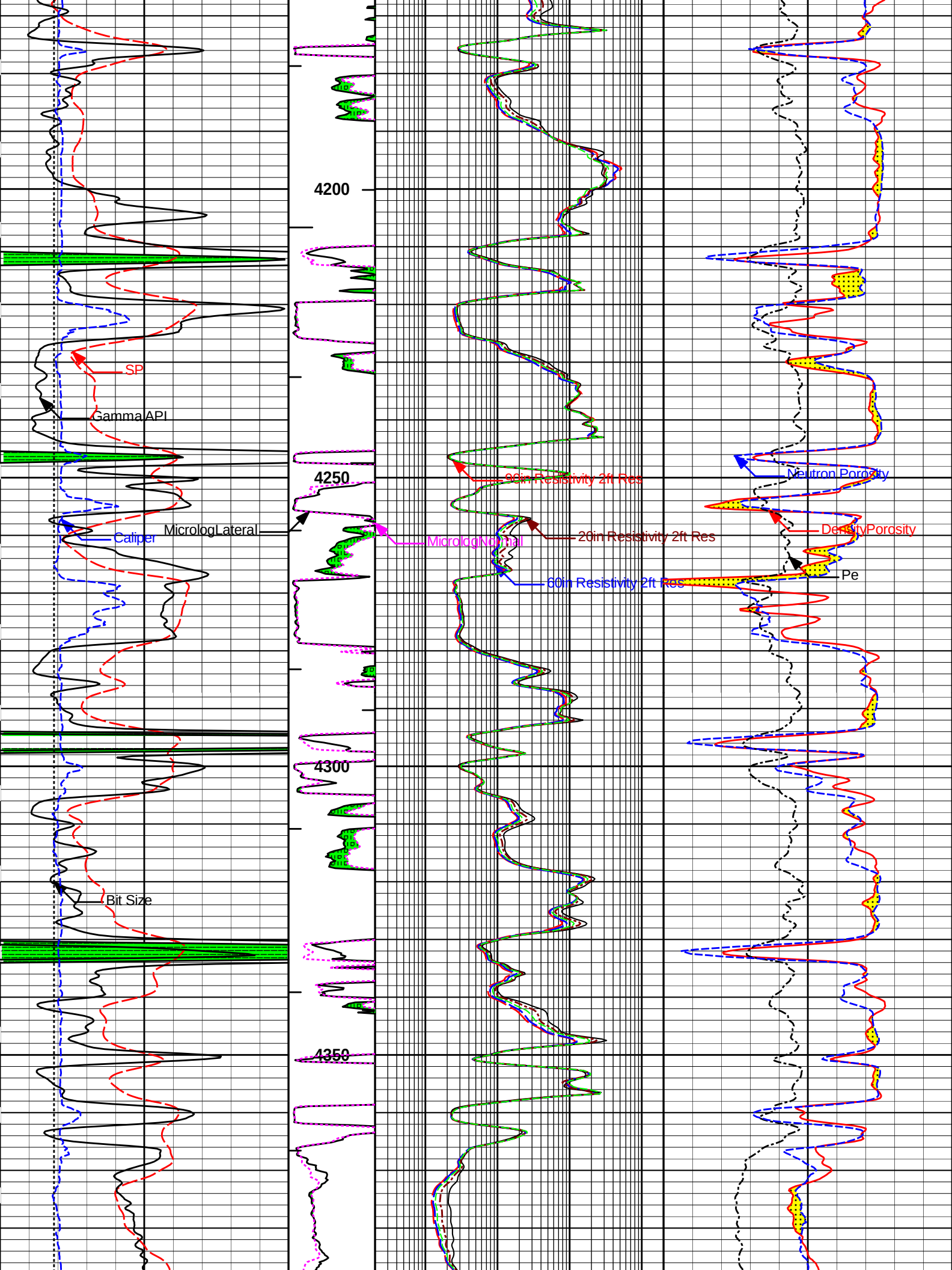
Plot Time: 25-Apr-14 12:36:21
Plot Range: 3748 ft to 4759.75 ft
Data: BOYD 1-3\Well Based\DAQ-0001-004\
Plot File: \\TC\TC_5_MAIN

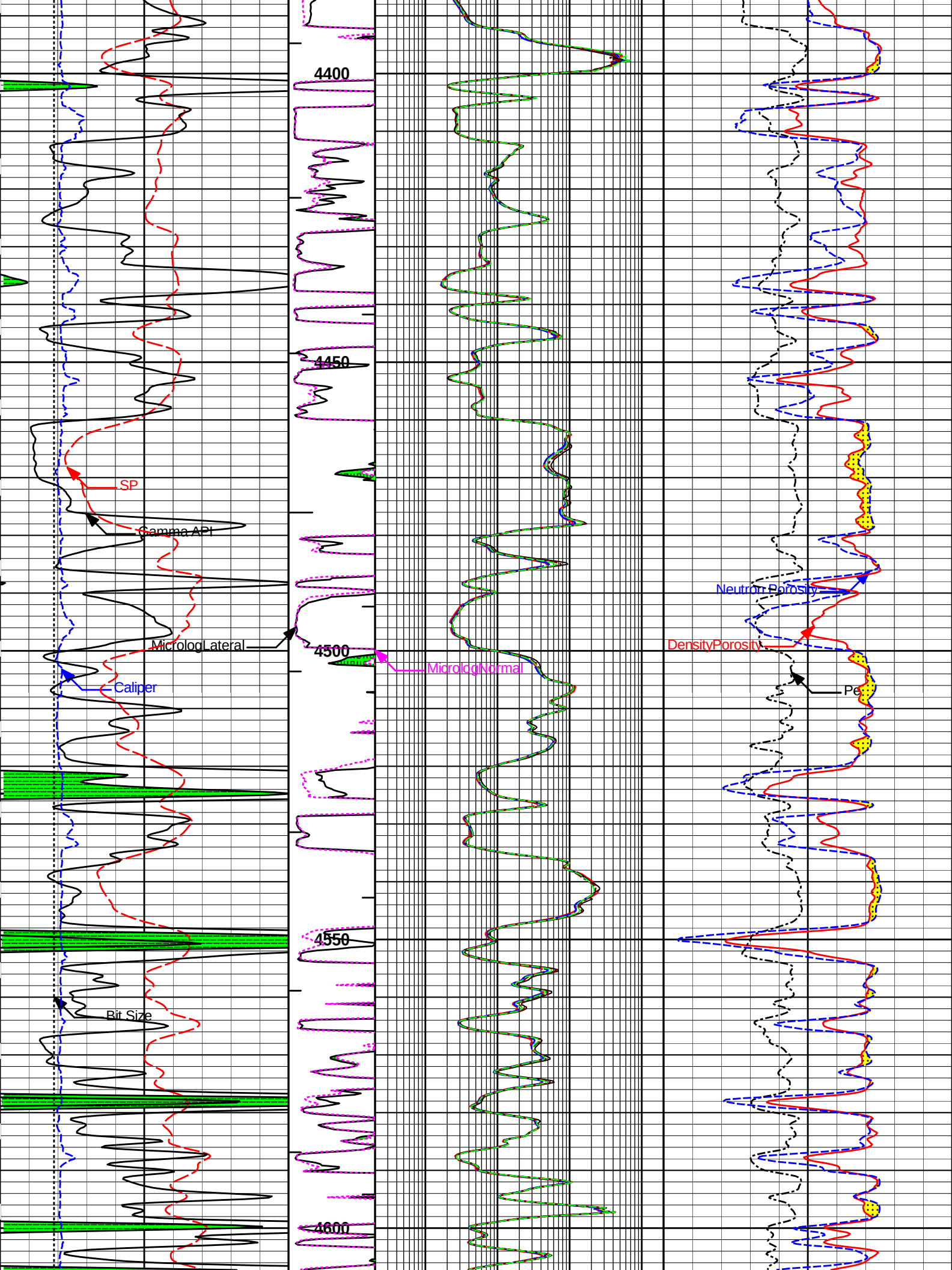
5 INCH MAIN LOG

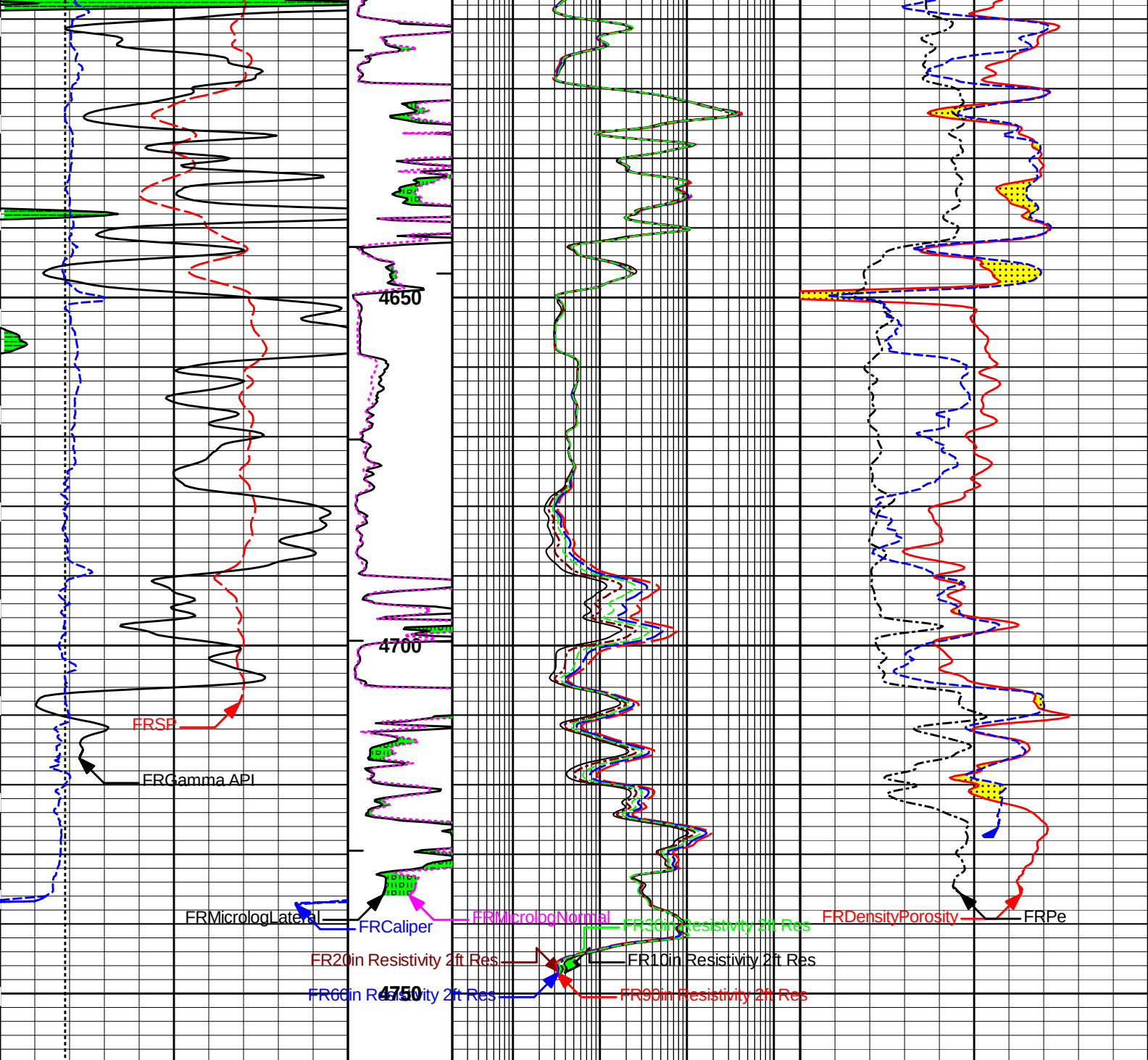
SHALE	AHVT	0.2	90in Resistivity 2ft Res	2000		
			ohm-metre			
0 Gamma API 150	BHVT	0.2	60in Resistivity 2ft Res	2000		
api			ohm-metre			
6 Caliper 16	MicrologNormal 0 20	0.2	30in Resistivity 2ft Res	2000	45	Neutron Porosity
inches	ohm-metre		ohm-metre			%











SP	MD	10in Resistivity 2ft Res	Pe
-]20[+	1 : 240 ft	0.2 2000 0	10
Bit Size	MicrologLateral	ohmm	DensityPorosity
6 16	0 20	0.2 2000 45	-15
inches	ohm-metre	ohm-metre	%
Caliper	MicrologNormal	30in Resistivity 2ft Res	Neutron Porosity
6 16	0 20	0.2 2000 45	-15
inches	ohm-metre	ohm-metre	%
Gamma API	BHVT	60in Resistivity 2ft Res	
0 150		0.2 2000	
api		ohm-metre	
SHALE	AHVT	90in Resistivity 2ft Res	
		0.2 2000	
		ohm-metre	

HALLIBURTON

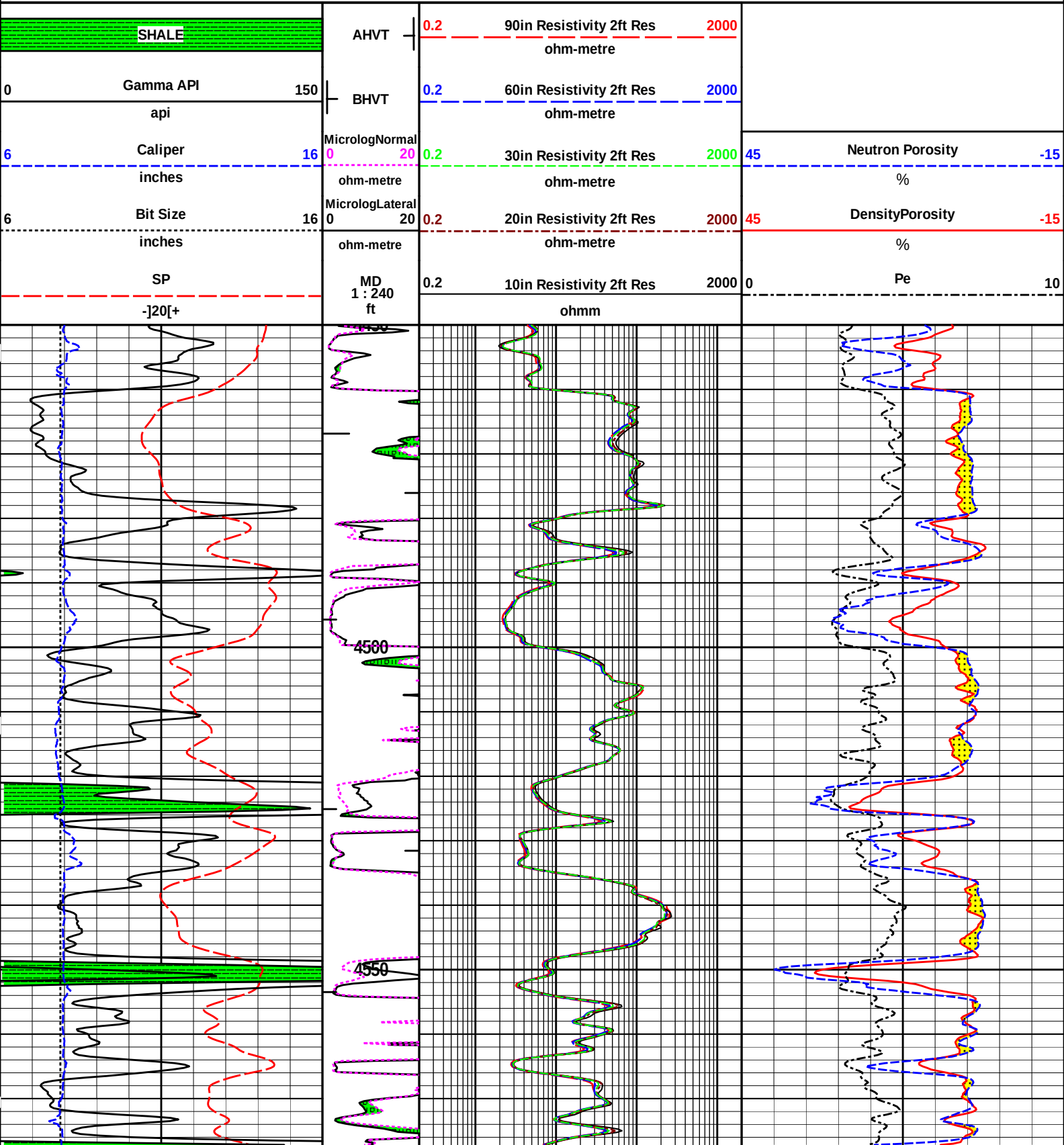
Plot Time: 25-Apr-14 12:36:23
 Plot Range: 3748 ft to 4759.75 ft
 Data: BOYD 1-3\Well Based\DAQ-0001-004\
 Plot File: \\TC\TC_5_MAIN

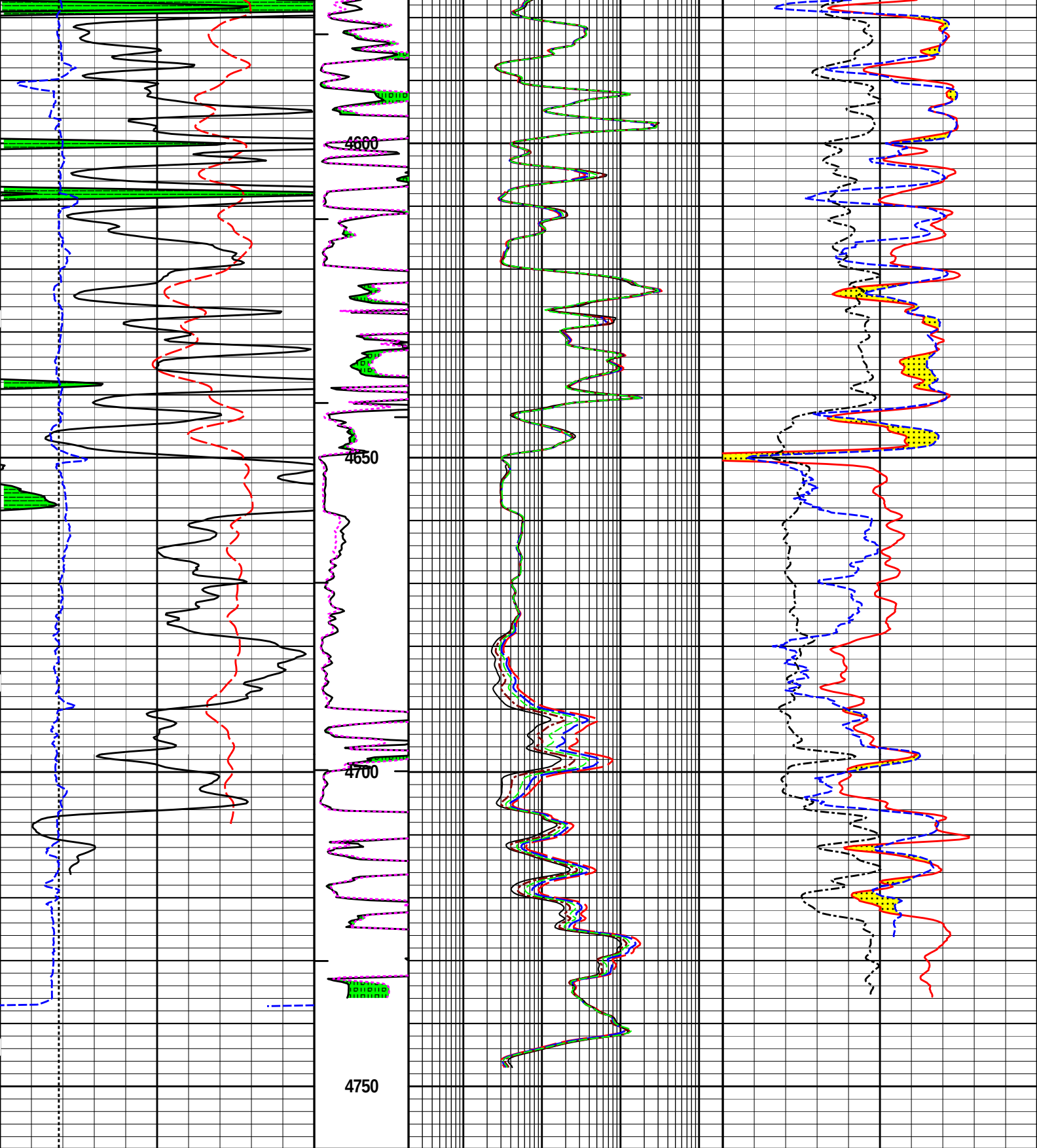
5 INCH MAIN LOG

HALLIBURTON

Plot Time: 25-Apr-14 12:36:24
Plot Range: 4450 ft to 4759.92 ft
Data: BOYD 1-3\Well Based\DAQ-0001-003\
Plot File: \\TC\TC_5_REPEAT

5 INCH MAIN LOG





SP		MD 1 : 240 ft	0.2 10in Resistivity 2ft Res 2000 0		Pe 10	
-]20[+			ohmm			
6	Bit Size 16	MicrologLateral 0 20	0.2 20in Resistivity 2ft Res 2000 45	DensityPorosity -15		
inches		ohm-metre	ohm-metre		%	
6	Caliper 16	MicrologNormal 0 20	0.2 30in Resistivity 2ft Res 2000 45	Neutron Porosity -15		
inches		ohm-metre	ohm-metre		%	
0	Gamma API 150	BHVT	0.2 60in Resistivity 2ft Res 2000			
api			ohm-metre			

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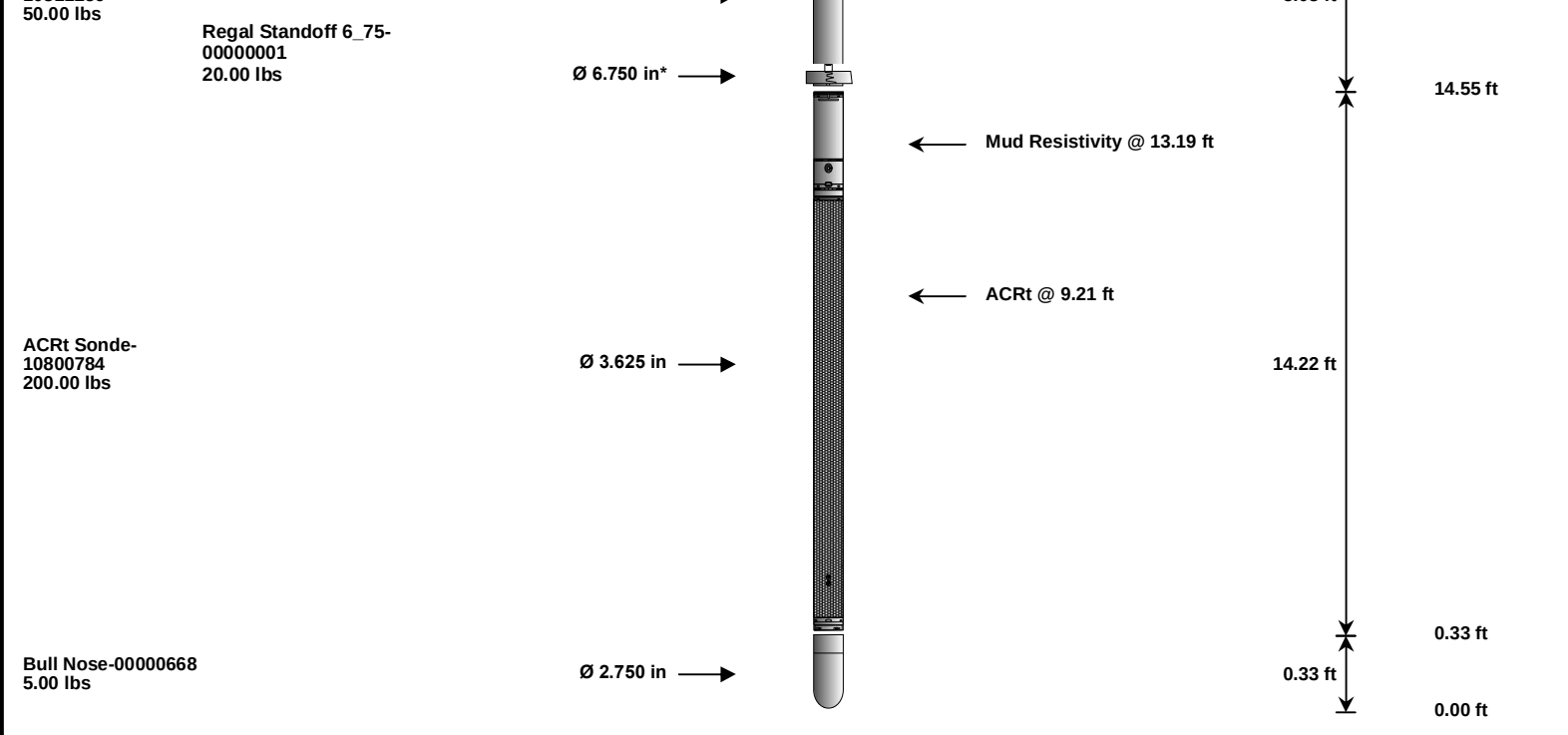
Plot Time: 25-Apr-14 12:36:25
Plot Range: 4450 ft to 4759.92 ft
Data: BOYD 1-3\Well Based\DAQ-0001-003\
Plot File: \\TC\TC_5_REPEAT

5 INCH MAIN LOG

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TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
Cable Head- 12345678 30.00 lbs		Ø 3.625 in →			1.92 ft	54.26 ft
SP Sub-12345678 60.00 lbs		Ø 3.625 in →		← SP @ 50.56 ft	3.74 ft	52.34 ft
GTET-10811258 165.00 lbs		Ø 3.625 in →		← GammaRay @ 42.54 ft	8.52 ft	48.60 ft
DSNT-10755066 174.00 lbs	DSN Decentralizer- 10735145 6.60 lbs	Ø 5.000 in* → Ø 3.625 in →		← DSN Far @ 33.15 ft ← DSN Near @ 32.40 ft	9.69 ft	40.08 ft
SDLT-10685803 360.00 lbs	SDLT Pad-10714945 65.00 lbs Microlog Pad-10685803 8.00 lbs	Ø 4.500 in → Ø 4.750 in* → Ø 4.750 in* →		Microlog @ 22.58 ft SDL Caliper @ 22.40 ft SDL @ 22.39 ft	10.81 ft	30.40 ft
ACRT Instrument- 10811256		Ø 3.625 in →			5.03 ft	19.58 ft



Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
CH	Standard OH Cable Head	12345678	30.00	1.92	52.34	300.00
SP	SP Sub	12345678	60.00	3.74	48.60	300.00
GTET	Gamma Telemetry Tool	10811258	165.00	8.52	40.08	60.00
DSNT	Dual Spaced Neutron	10755066	174.00	9.69	30.40	60.00
DCNT	DSN Decentralizer	10735145	6.60	5.13	33.73	300.00
SDLT	Spectral Density Tool	10685803	360.00	10.81	19.58	60.00
SDLP	Density Insite Pad	10714945	65.00	2.55	21.79	60.00
MICP	Microlog Pad	10685803	8.00	1.00	22.08	60.00
ACRt	Array Compensated True Resistivity Instrument Section	10811256	50.00	5.03	14.55	120.00
RSOF	Regal Standoff 6.75in	00000001	20.00	0.52	14.71	300.00
ACRt	Array Compensated True Resistivity Sonde Section	10800784	200.00	14.22	0.33	120.00
BLNS	Bull Nose	00000668	5.00	0.33	0.00	300.00
Total			1,143.60	54.26		
* Not included in Total Length and Length Accumulation.						
Data: BOYD 1-310001 SP-GTET-DSNT-SDLT-ACRT-BNIDLE					Date: 25-Apr-14 08:10:20	

HALLIBURTON CALIBRATION REPORT			
NATURAL GAMMA RAY TOOL SHOP CALIBRATION			
Tool Name:	GTET - 10811258	Reference Calibration Date:	25-Apr-14 08:20:22
Engineer:	THOMAS K HYDE	Calibration Date:	25-Apr-14 08:23:37
Software Version:	WL INSITE R4.2.0 (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	44.8	44.7	api
Background + Calibrator	277.2	276.7	api
Calibrator	232.4	232.0	api
NATURAL GAMMA RAY TOOL FIELD CALIBRATION			

Tool Name:

GTET - 10811258

Engineer:

THOMAS K HYDE

Software Version:

WL INSITE R4.2.0 (Build 2)

Reference Calibration Date:

25-Apr-14 08:23:37

Calibration Date:

25-Apr-14 08:26:59

Calibration Version:

1

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	44.7	43.9	api
Background + Calibrator	276.7	279.3	api
Calibrator	232.0	235.4	api

Shop	Field	Difference	Tolerance
232.0	235.4	-3.4	+/- 9.00

Tool Name:

DSNT - 10755066

Engineer:

J. BOLLLOM

Software Version:

WL INSITE R4.2.0 (Build 2)

Reference Calibration Date:

14-Apr-14 13:53:02

Calibration Date:

14-Apr-14 14:08:27

Calibration Version:

1

Logging Source S/N: DSN-436

Tank Serial Number: LIBERAL

Reference value assigned to Tank: 51.680

Snow Block S/N: 668

Calibration Tank Water Temperature: 65 degF

Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS			
Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.949	0.948	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):	0.2113	0.2110	0.0003	+/- 0.0020
Calibrated Ratio:	9.74	9.73	0.011	+/- 0.050

VERIFIER		
Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0629	0.02000 - 0.09000

PASS/FAIL SUMMARY	
Background Check:	Passed
Gain-Range Check:	Passed
Snow-Block Check:	Passed

Tool Name:

DSNT - 10755066

Engineer:

THOMAS K HYDE

Software Version:

WL INSITE R4.2.0 (Build 2)

Reference Calibration Date:

14-Apr-14 14:08:27

Calibration Date:

25-Apr-14 08:30:18

Calibration Version:

1

Logging Source S/N: DSN-436

Snow Block S/N: 668

NEUTRON FIELD CHECK SUMMARY	
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NEUTRON FIELD-CHECK SUMMARY				
	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decg):	0.0629	0.0577	-0.0052	+/- 0.0150
PASS/FAIL SUMMARY				
Block Change Check:			Passed	
Snow Block Stat Check:			Passed	
Temperature Check:			Passed	

DENSITY CALIPER SHOP CALIBRATION				
Tool Name:	SDLT - 10685803		Reference Calibration Date:	14-Apr-14 11:26:43
Engineer:	J. BOLLUM		Calibration Date:	14-Apr-14 11:31:00
Software Version:	WL INSITE R4.2.0 (Build 2)		Calibration Version:	1
Host Tool Name:	DSNT - 10755066			

CALIBRATION COEFFICIENTS				
Measurement	Previous Value	New Value	Control Limit On New Value	
Pad Offset	-4362.95	-4420.65	-7000.00 - -1000.00	
Pad Gain	0.0003849	0.0003863	0.000200 - 0.000600	
Arm Offset	-3135.46	-3304.43	-5000.00 - 3000.00	
Arm Gain	0.0005085	0.0005300	0.000300 - 0.000700	
Arm Power	-0.000004496	-0.000005774	-0.000010000 - 0.000010000	
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)	2.01	2.00	-0.01	+/- 0.20
Medium Ring (in)	3.76	3.75	-0.01	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.53	6.50	-0.03	+/- 0.20
Medium Ring (in)	8.24	8.25	0.01	+/- 0.20
Large Ring (in)	15.00	15.00	0.00	+/- 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 - 10685803		Reference Calibration Date:	14-Apr-14 11:31:00
Engineer:	THOMAS K HYDE		Calibration Date:	25-Apr-14 08:32:19
Software Version:	WL INSITE R4.2.0 (Build 2)		Calibration Version:	1

MEASURED CALIPER VALUES				
Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.73	-0.02	+/- 0.10
Ring Diameter	8.25	8.35	0.10	+/- 0.15
PASS/FAIL SUMMARY				

Pad Extension Check:	Passed
Diameter Check:	Passed

SPECTRAL DENSITY SHOP CALIBRATION

Tool Name:	SDLT Pad - 10714945	Reference Calibration Date:	19-Mar-14 09:26:25
Engineer:	THOMAS K HYDE	Calibration Date:	19-Mar-14 09:44:49
Software Version:	WL INSITE R4.2.0 (Build 2)	Calibration Version:	1

Logging Source S/N: 5073 GW		
Aluminum Block S/N: LIBERAL	Density: 2.598g/cc	Pe: 3.170
Magnesium Block S/N: LIBERAL	Density: 1.684g/cc	Pe: 2.598

DENSITY CALIBRATION SUMMARY			
Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0250	1.0159	0.90 - 1.10
Near Dens Gain	1.0029	1.0031	0.90 - 1.10
Near Peak Gain	1.0141	0.9933	0.90 - 1.10
Near Lith Gain	0.9906	0.9672	0.90 - 1.10
Far Bar Gain	1.0073	1.0056	0.90 - 1.10
Far Dens Gain	0.9954	0.9960	0.90 - 1.10
Far Peak Gain	0.9889	0.9924	0.90 - 1.10
Far Lith Gain	0.9706	0.9726	0.90 - 1.10
Near Bar Offset	0.0725	0.1547	NONE
Near Dens Offset	0.2447	0.2443	NONE
Near Peak Offset	0.1342	0.3085	NONE
Near Lith Offset	0.2942	0.4893	NONE
Far Bar Offset	0.1435	0.1572	NONE
Far Dens Offset	0.2251	0.2198	NONE
Far Peak Offset	0.2698	0.2399	NONE
Far Lith Offset	0.3742	0.3620	NONE
Near Bar Background	953.28	949.61	700 - 1450
Near Dens Background	316.71	314.65	230 - 480
Near Peak Background	138.04	137.76	100 - 210
Near Lith Background	168.70	167.57	125 - 260
Far Bar Background	484.96	489.13	450 - 900
Far Dens Background	189.91	190.41	175 - 345
Far Peak Background	74.41	74.49	70 - 140
Far Lith Background	78.83	77.89	75 - 145

CALIBRATION BLOCK SUMMARY				
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.683	1.684	0.001	+/- 0.015
Pe	2.560	2.557	-0.003	+/- 0.150
ALUMINUM				
Density (g/cc)	2.593	2.598	0.005	+/- 0.01500
Pe	3.155	3.126	-0.029	+/- 0.150

TOOL SUMMARY				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits

	Value	Control Limits	Value	Control Limits
QUALITY				
Background	0.0013	+/- 0.0110	0.0009	+/- 0.0140
Magnesium Block	-0.0012	+/- 0.0110	0.0011	+/- 0.0140
Aluminum Block	0.0006	+/- 0.0110	0.0009	+/- 0.0140
Resolution	9.87	6.00 - 11.50	9.15	6.00 - 11.50
Internal Verifier(B+D+P+L)	1570	1200 - 2700	832	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 - 10714945	Reference Calibration Date:	19-Mar-14 09:44:49
Engineer:	THOMAS K HYDE	Calibration Date:	25-Apr-14 08:36:16
Software Version:	WL INSITE R4.2.0 (Build 2)	Calibration Version:	1

Pad Temperature: 71.7 degF

DENSITY FIELD CALIBRATION SUMMARY				
Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1569.604	1579.566	9.962	15.941
Far (B+D+P+L) cps	831.924	828.636	-3.288	15.877
Near Resolution	9.87	9.83	-0.040	0.50
Far Resolution	9.15	9.24	0.090	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 - 10685803	Reference Calibration Date:	05-Mar-14 15:40:55
Engineer:	THOMAS K HYDE	Calibration Date:	19-Mar-14 08:32:41
Software Version:	WL INSITE R4.2.0 (Build 2)	Calibration Version:	1
Host Tool Name:	DSNT - 10755066		

CALIBRATION COEFFICIENT SUMMARY					
Measurement	Micro Log Normal		Micro Log Lateral		Units
	Measured	Calibrated	Measured	Calibrated	
Tool Zero	-0.08	-0.07	-0.00	-0.00	ohmm
Calibration Point #1	-0.01	0.00	0.00	0.00	ohmm
Calibration Point #2	19.98	20.00	20.00	20.00	ohmm
Internal Reference	19.92	19.94	20.00	20.01	ohmm

Measurement	Micro Log Normal Tool Value	Micro Log Lateral Tool Value	Units
Tool Zero	-1.73	0.52	V

MICRO LOG FIELD CHECK			
Tool Name:	Microlog Pad - 10685803	Reference Calibration Date:	19-Mar-14 08:32:41
Engineer:	THOMAS K HYDE	Calibration Date:	25-Apr-14 08:37:15
Software Version:	WL INSITE R4.2.0 (Build 2)	Calibration Version:	1

	Measurement	Micro Log Normal		Micro Log Lateral		
		Shop	Field	Shop	Field	Units
	Tool Zero	-0.07	-0.07	-0.00	-0.00	ohmm
	Internal Reference	19.94	19.95	20.01	20.02	ohmm
	Summary					
Signal	Shop	Field	Difference	Tolerance		
Microlog Normal	19.94	19.95	-0.01	+/- 0.80		
Microlog Lateral	20.01	20.02	-0.01	+/- 0.80		

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION			
Tool Name:	ACRt Sonde - 10800784	Reference Calibration Date:	19-Mar-14 11:38:30
Engineer:	THOMAS K HYDE	Calibration Date:	19-Mar-14 11:46:10
Software Version:	WL INSITE R4.2.0 (Build 2)	Calibration Version:	1
Host Tool Name:	ACRt Instrument - 10811256		

TYPICAL GAIN RANGE									
Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.0309	1.05	0.95	1.0230	1.05	0.95	1.0090	1.05
A2 (50")	0.95	1.0448	1.05	0.95	1.0375	1.05	0.95	1.0253	1.05
A3 (29")	0.95	1.0143	1.05	0.95	1.0067	1.05	0.95	0.9946	1.05
A4 (17")	0.95	1.0172	1.05	0.95	1.0083	1.05	0.95	1.0003	1.05
A5 (10")	N/A	N/A	N/A	0.95	1.0099	1.05	0.95	1.0014	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9987	1.05	0.95	0.9903	1.05

SONDE OFFSET			
Subarray	R12KHz	R36KHz	R72KHz
	(mmho/m)	(mmho/m)	(mmho/m)
A1 (80")	0.282	-3.841	-5.287
A2 (50")	-1.602	-3.836	-4.722
A3 (29")	-16.009	-4.660	-3.606
A4 (17")	-99.202	-32.925	-26.758
A5 (10")	N/A	-99.062	-49.020
A6 (6")	N/A	297.853	159.220

TRANSMITTER CURRENT GAIN			
Signal	Lower	R	Upper
12K	0.6	0.85	1.3
36K	1.0	1.18	2.0
72K	1.0	1.51	2.0

PASS/FAIL SUMMARY

GAIN RANGE CHK				PASS		
SONDE OFFSET CHK				PASS		
TOOL OK TO LOG						
CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-10811258						
Gamma Ray Calibrator	232.0	235.4	-----	-3.4	+/- 9.00	api
DSNT-10755066						
Snow-Block Porosity	0.0629	0.0577	-----	0.0052	+/- 0.0150	decp
SDLT-10685803						
Pad Extension	3.75	3.73	-----	0.02	+/-0.10	in
Ring Diameter	8.25	8.35	-----	-0.10	+/-0.15	in
SDLT Pad-10714945						
Near(B+D+P+L)	1569.604	1579.566	-----	-9.962	+/-15.941	cps
Far(B+D+P+L)	831.924	828.636	-----	3.288	+/-15.877	cps
Microlog Pad-10685803						
MicroLog Normal	19.94	19.95	-----	-0.01	+/-0.80	ohmm
MicroLog Lateral	20.01	20.02	-----	-0.01	+/-0.80	ohmm
ACRt Sonde-10800784						
Mud Cell	1.00	-----	-----	0.00	-----	ohm-m
Data: BOYD 1-310001 SP-GTET-DSNT-SDLT-ACRT-BN\IDLE						
Date: 25-Apr-14 08:55:04						
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	9.300	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	2.000	ohmm	
	SHARED	TRM	Temperature of Mud	75.0	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	4720.00	ft	
	SHARED	BHT	Bottom Hole Temperature	200.0	degF	
	SHARED	SVTM	Navigation and Survey Master Tool	NONE		
	SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET		
	SHARED	TEMM	Temperature Master Tool	NONE		
	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	
Rwa / CrossPlot	BHSM	Borehole Size Source Tool	SDLT	
GTET	GROK	Process Gamma Ray?	Yes	
GTET	GRSO	Gamma Tool Standoff	0.000	in
GTET	GEOK	Process Gamma Ray EVR?	Yes	
GTET	TPOS	Tool Position for Gamma Ray Tools.	Eccentered	
GTET	BHSM	Borehole Size Source Tool	SDLT	
DSNT	DNOK	Process DSN?	Yes	
DSNT	DEOK	Process DSN EVR?	Yes	
DSNT	NLIT	Neutron Lithology	Limestone	
DSNT	DSNO	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	
DSNT	BHSM	Borehole Size Source Tool	SDLT	
SDLT	CLOK	Process Caliper Outputs?	Yes	
SDLT Pad	DNOK	Process Density?	Yes	
SDLT Pad	DNOK	Process Density EVR?	Yes	
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
SDLT Pad	BHSM	Borehole Size Source Tool	SDLT	
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
ACRt Sonde	BHSM	Borehole Size Source Tool	SDLT	
BOTTOM				
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HALLIBURTON

INPUTS, DELAYS AND FILTERS TABLE

Mnemonic	Input Description	Delay (ft)	Filter Type	Filter Length (ft)
Depth Panel				
TENS	Tension	0.00	NO	

Rwa / CrossPlot				
TPUL	Tension Pull	54.26	NO	
BS	Bit Size	54.26	NO	
HDIA	Measured Hole Diameter	0.00	NO	
SP Sub				
PLTC	Plot Control Mask	50.56	NO	
SP	Spontaneous Potential	50.56	BLK	1.250
SPR	Raw Spontaneous Potential	50.56	NO	
SPO	Spontaneous Potential Offset	50.56	NO	
GTET				
TPUL	Tension Pull	42.54	NO	
GR	Natural Gamma Ray API	42.54	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	42.54	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	42.54	W	1.416 , 0.750
HDIA	Measured Hole Diameter	0.00	NO	
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	
DSNT				
TPUL	Tension Pull	32.30	NO	
RNDS	Near Detector Telemetry Counts	32.40	BLK	1.417
RFDS	Far Detector Telemetry Counts	33.15	TRI	0.583
DNTT	DSN Tool Temperature	32.40	NO	
DSNS	DSN Tool Status	32.30	NO	
ERND	Near Detector Telemetry Counts EVR	32.40	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	33.15	BLK	0.000
ENTM	DSN Tool Temperature EVR	32.40	NO	
HDIA	Measured Hole Diameter	0.00	NO	
SDLT				
TPUL	Tension Pull	22.40	NO	
PCAL	Pad Caliper	22.40	TRI	0.250
ACAL	Arm Caliper	22.40	TRI	0.250
ACRt Sonde				
TPUL	Tension Pull	2.73	NO	
F1R1	ACRT 12KHz - 80in R value	8.98	BLK	0.000
F1X1	ACRT 12KHz - 80in X value	8.98	BLK	0.000
F1R2	ACRT 12KHz - 50in R value	6.48	BLK	0.000
F1X2	ACRT 12KHz - 50in X value	6.48	BLK	0.000
F1R3	ACRT 12KHz - 29in R value	4.98	BLK	0.000
F1X3	ACRT 12KHz - 29in X value	4.98	BLK	0.000
F1R4	ACRT 12KHz - 17in R value	3.98	BLK	0.000
F1X4	ACRT 12KHz - 17in X value	3.98	BLK	0.000
F1R5	ACRT 12KHz - 10in R value	3.48	BLK	0.000
F1X5	ACRT 12KHz - 10in X value	3.48	BLK	0.000
F1R6	ACRT 12KHz - 6in R value	3.23	BLK	0.000
F1X6	ACRT 12KHz - 6in X value	3.23	BLK	0.000
F2R1	ACRT 36KHz - 80in R value	8.98	BLK	0.000
F2X1	ACRT 36KHz - 80in X value	8.98	BLK	0.000
F2R2	ACRT 36KHz - 50in R value	6.48	BLK	0.000
F2X2	ACRT 36KHz - 50in X value	6.48	BLK	0.000
F2R3	ACRT 36KHz - 29in R value	4.98	BLK	0.000
F2X3	ACRT 36KHz - 29in X value	4.98	BLK	0.000

F2X3	ACRT 36KHz - 29in X value	4.98	BLK	0.000
F2R4	ACRT 36KHz - 17in R value	3.98	BLK	0.000
F2X4	ACRT 36KHz - 17in X value	3.98	BLK	0.000
F2R5	ACRT 36KHz - 10in R value	3.48	BLK	0.000
F2X5	ACRT 36KHz - 10in X value	3.48	BLK	0.000
F2R6	ACRT 36KHz - 6in R value	3.23	BLK	0.000
F2X6	ACRT 36KHz - 6in X value	3.23	BLK	0.000
F3R1	ACRT 72KHz - 80in R value	8.98	BLK	0.000
F3X1	ACRT 72KHz - 80in X value	8.98	BLK	0.000
F3R2	ACRT 72KHz - 50in R value	6.48	BLK	0.000
F3X2	ACRT 72KHz - 50in X value	6.48	BLK	0.000
F3R3	ACRT 72KHz - 29in R value	4.98	BLK	0.000
F3X3	ACRT 72KHz - 29in X value	4.98	BLK	0.000
F3R4	ACRT 72KHz - 17in R value	3.98	BLK	0.000
F3X4	ACRT 72KHz - 17in X value	3.98	BLK	0.000
F3R5	ACRT 72KHz - 10in R value	3.48	BLK	0.000
F3X5	ACRT 72KHz - 10in X value	3.48	BLK	0.000
F3R6	ACRT 72KHz - 6in R value	3.23	BLK	0.000
F3X6	ACRT 72KHz - 6in X value	3.23	BLK	0.000
RMUD	Mud Resistivity	12.52	BLK	0.000
F1RT	Transmitter Reference 12 KHz Real Signal	2.73	BLK	0.000
F1XT	Transmitter Reference 12 KHz Imaginary Signal	2.73	BLK	0.000
F2RT	Transmitter Reference 36 KHz Real Signal	2.73	BLK	0.000
F2XT	Transmitter Reference 36 KHz Imaginary Signal	2.73	BLK	0.000
F3RT	Transmitter Reference 72 KHz Real Signal	2.73	BLK	0.000
F3XT	Transmitter Reference 72 KHz Imaginary Signal	2.73	BLK	0.000
TFPU	Upper Feedpipe Temperature Calculated	2.73	BLK	0.000
TFPL	Lower Feedpipe Temperature Calculated	2.73	BLK	0.000
ITMP	Instrument Temperature	2.73	BLK	0.000
TCVA	Temperature Correction Values Loop Off	2.73	NO	
TIDV	Instrument Temperature Derivative	2.73	NO	
TUDV	Upper Temperature Derivative	2.73	NO	
TLDV	Lower Temperature Derivative	2.73	NO	
TRBD	Receiver Board Temperature	2.73	NO	
HDIA	Measured Hole Diameter	0.00	NO	
SDLT Pad				
TPUL	Tension Pull	22.39	NO	
NAB	Near Above	22.21	BLK	0.920
NHI	Near Cesium High	22.21	BLK	0.920
NLO	Near Cesium Low	22.21	BLK	0.920
NVA	Near Valley	22.21	BLK	0.920
NBA	Near Barite	22.21	BLK	0.920
NDE	Near Density	22.21	BLK	0.920
NPK	Near Peak	22.21	BLK	0.920
NLI	Near Lithology	22.21	BLK	0.920
NBAU	Near Barite Unfiltered	22.21	BLK	0.250
NLIU	Near Lithology Unfiltered	22.21	BLK	0.250
FAB	Far Above	22.56	BLK	0.250
FHI	Far Cesium High	22.56	BLK	0.250
FLO	Far Cesium Low	22.56	BLK	0.250
FVA	Far Valley	22.56	BLK	0.250
FBA	Far Barite	22.56	BLK	0.250
FDE	Far Density	22.56	BLK	0.250
FPK	Far Peak	22.56	BLK	0.250
FLI	Far Lithology	22.56	BLK	0.250

PTMP	Pad Temperature	22.40	BLK	0.920
NHV	Near Detector High Voltage	21.79	NO	
FHV	Far Detector High Voltage	21.79	NO	
ITMP	Instrument Temperature	21.79	NO	
DDHV	Detector High Voltage	21.79	NO	
HDIA	Measured Hole Diameter	0.00	NO	
Microlog Pad				
TPUL	Tension Pull	22.58	NO	
MINV	Microlog Lateral	22.58	BLK	0.750
MNOR	Microlog Normal	22.58	BLK	0.750
Data: BOYD 1-3\0001 SP-GTET-DSNT-SDLT-ACRT-BN\IDLE			Date: 25-Apr-14 08:55:48	
COMPANY	NEW GULF RESOURCES, LLC			
WELL	BOYD 1-3			
FIELD	WILDCAT			
COUNTY	LOGAN	STATE	KANSAS	
HALLIBURTON		TRIPLE COMBO LOG		