HALLIBURTON

ARRAY COMPENSATED TRUE RESISTIVITY LOG

COMPANY HERMAN L. LOEB, LLC
WELL YOST 2-28
FIELD/BLOCK EINSEL
COUNTY KIOWA
STATE KANSAS

COMPANY **HERMAN L. LOEB, LLC**

WELL **YOST 2-28**

FIELD/BLOCK **EINSEL**

COUNTY **KIOWA** STATE **KANSAS**

API No. 15-097-21816-00-00

Location (SHL) 1866' FSL & 549' FWL

Sect. 28 Twp. 27S Rge. 18W

Other Services:
DSNT/SDLT
MICROLOG
MRIL

Permanent Datum	GL	Elev. 2212.0 ft	Elev.: K.B. 2225.0 ft
Log measured from	KB	13.0 ft above perm. Datum	D.F. 2224.0 ft
Drilling measured from	KB		G.L. 2212.0 ft

Date		30-Mar-15					
Run No.		ONE					
Depth - Driller		4840.00 ft					
Depth - Logger		4839.0 ft					
Bottom - Logged Interval		4830.00 ft					
Top - Logged Interval		549.00 ft					
Casing - Driller		8.625 in	@ 549.0 ft	@		@	
Casing - Logger		549.0 ft					
Bit Size		7.875 in		@		@	
Type Fluid in Hole		Water Based Mud					
Density	Viscosity	9.2 ppg	62.00 s/qt				
PH	Fluid Loss	9.00 pH	5900.0 cptm				
Source of Sample		MUD PIT					
Rm @ Meas. Temperature		0.670 ohmm	@ 74.00 degF	@		@	
Rmf @ Meas. Temperature		0.37 ohmm	@ 74.00 degF	@		@	
Rmc @ Meas. Temperature		0.890 ohmm	@ 74.00 degF	@		@	
Source Rmf	Rmc	MEASURED	MEASURED				
Rm @ BHT		0.41 ohmm	@ 110.0 degF	@		@	
Time Since Circulation		4.7500 hr					
Time on Bottom		30-Mar-15 23:15:23.000					
Max. Rec. Temperature		110.0 degF	@ 4839.0 ft	@		@	
Equipment	Location	11072142	Liberal, KS, US				
Recorded By		SUHAIL BISHTI					
Witnessed By		JON CHRISTENSEN					

Fold here

Service Ticket No.: 902259578 API Serial No.: 15-097-21816-00-00 PGM Version: WL INSITE R4.6.4 (Build 3)

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
	ONE	ACRT	N/A	1.5" S.O	N/A
		I962_S909			

EQUIPMENT DATA

GAMMA		ACOUSTIC		DENSITY		NEUTRON	
Run No.	ONE	Run No.		Run No.		Run No.	
Serial No.	11048627	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	

LOGGING DATA

GENERAL				GAMMA			ACOUSTIC			DENSITY			NEUTRON		
Run No.	Depth From	Depth To	Speed ft/min	Scale L	Scale R	Matrix	Scale L	Scale R	Matrix	Scale L	Scale R	Matrix	Scale L	Scale R	Matrix
ONE	TD	CSG	REC	0	150										

DIRECTIONAL INFORMATION

Maximum Deviation	@	KOP	@

Remarks: ANNULAR HOLE VOLUME CALCULATED FOR 5.5" CASING

CHLORIES REPORTED AT 4500 PPM

LCM REPORTED AT 2 PPM

GTET- ACRT RUN IN COMBINATION IN THE FIRST RUN

TODAY'S CREW:F.VILLA & A.ESTRADA

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

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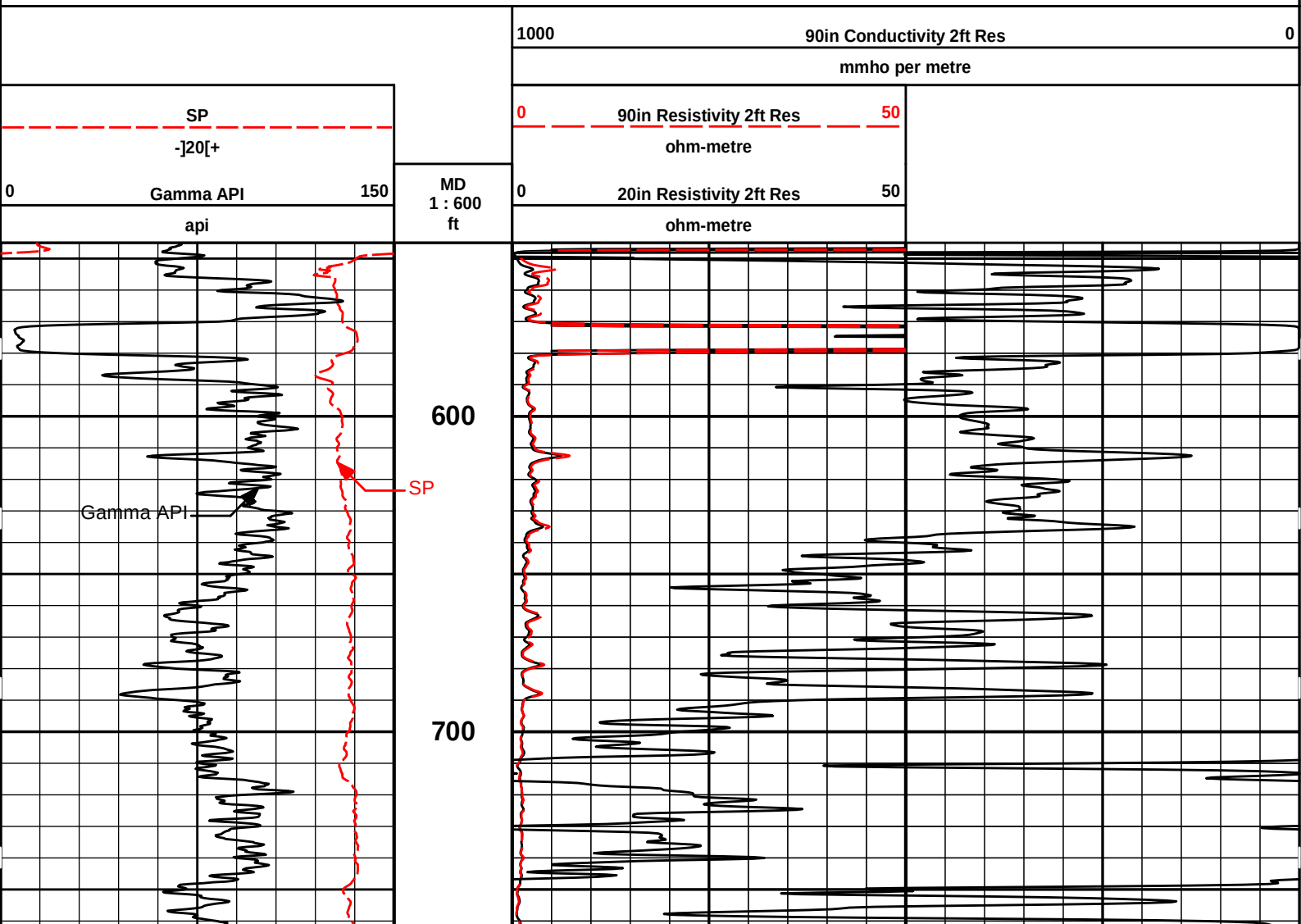
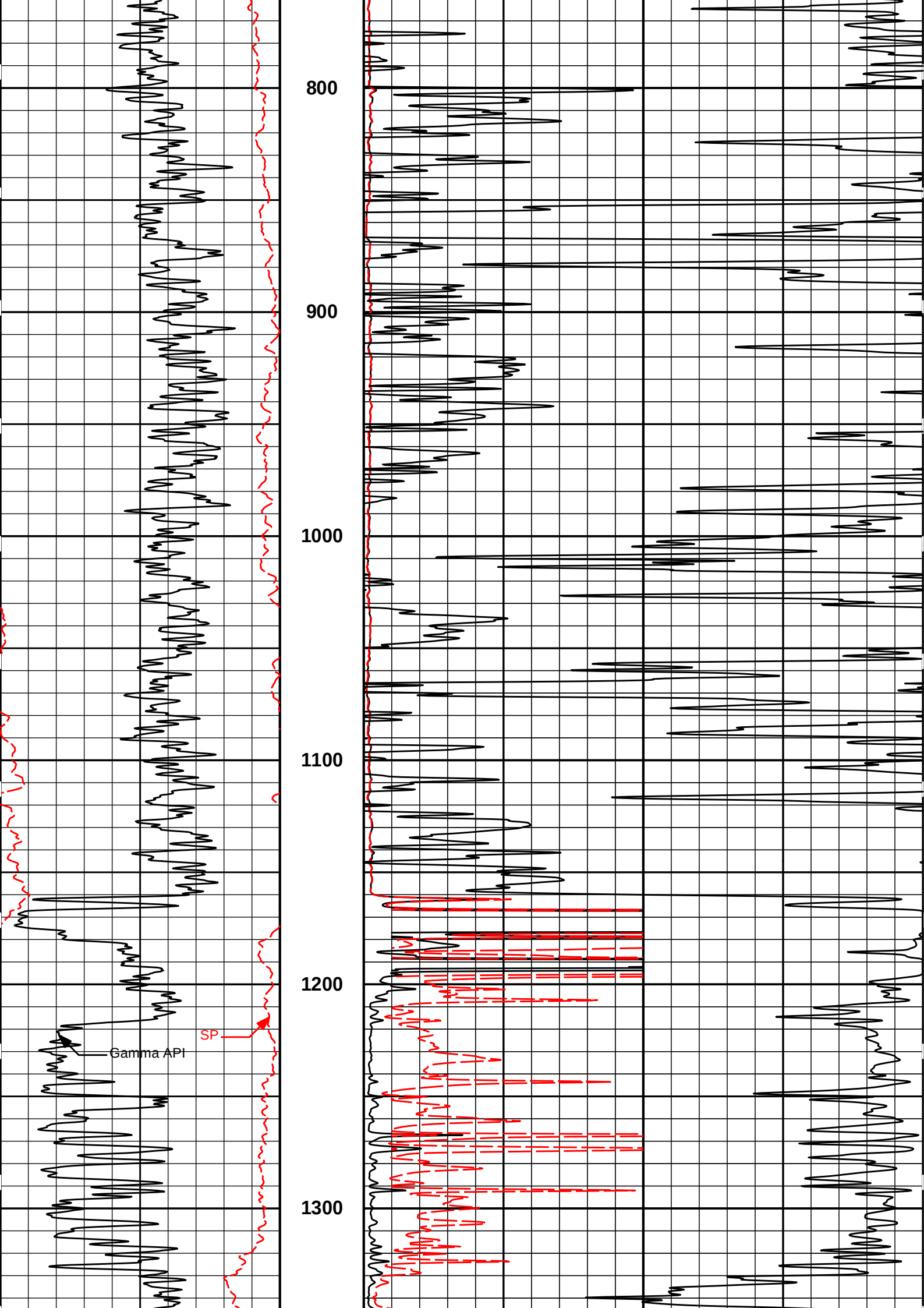
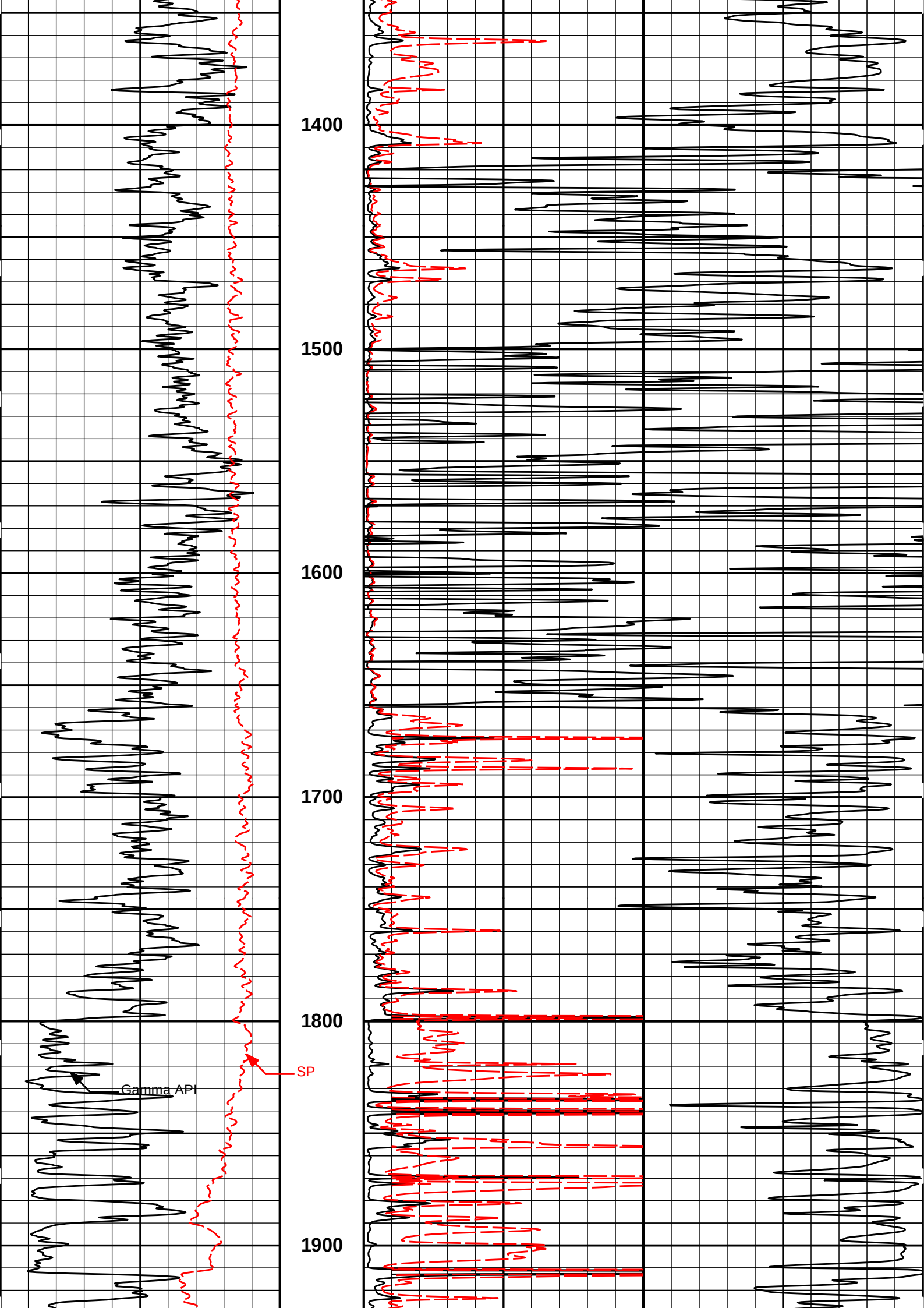
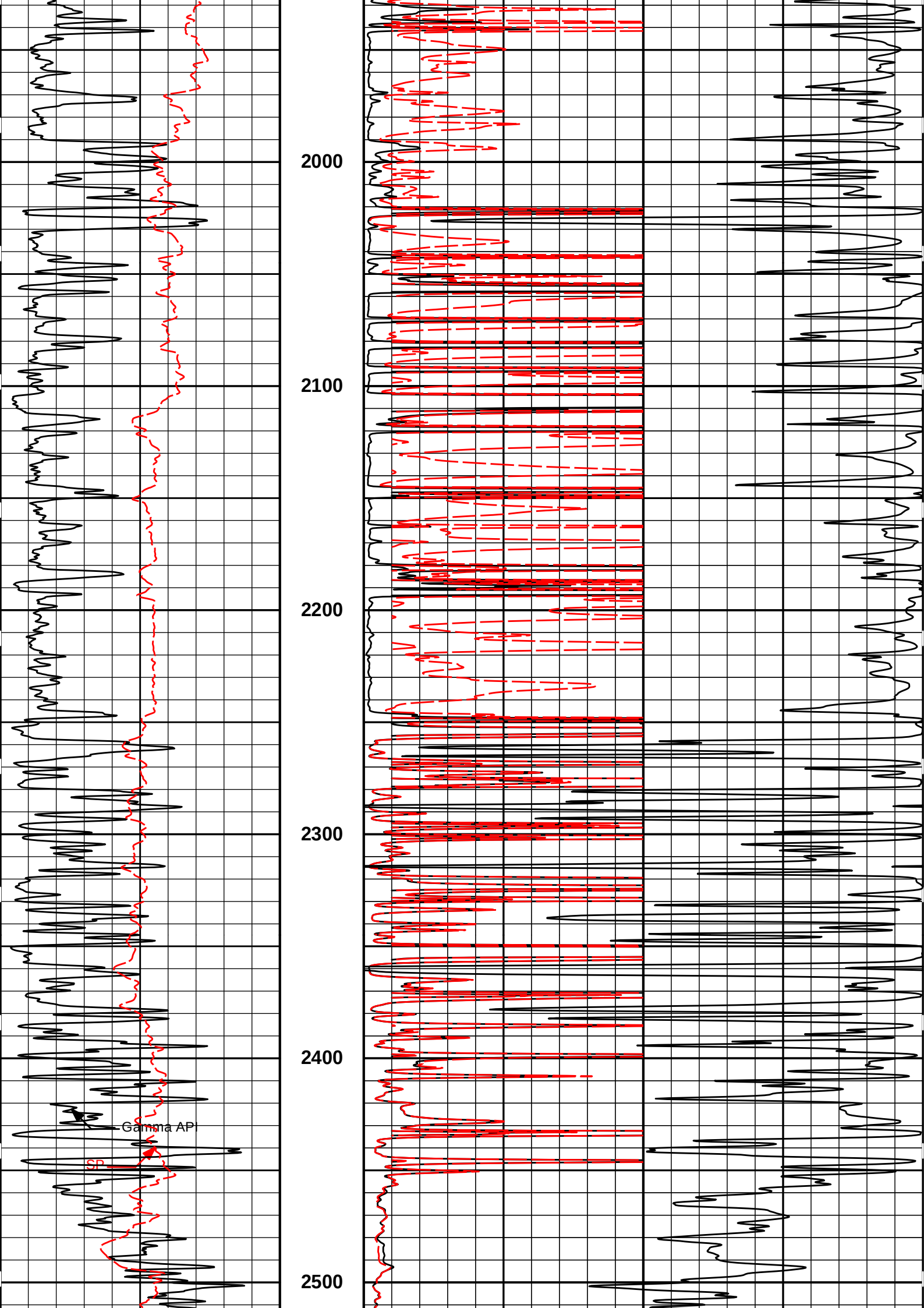
Plot Time: 31-Mar-15 01:31:26
Plot Range: 545 ft to 4845.92 ft
Data: YOST 2-28\Well Based\ACRT MAIN
Plot File: \\-LOCAL-\YOST 2-28\Well Based\ACRT 5\ACRT_2_lib

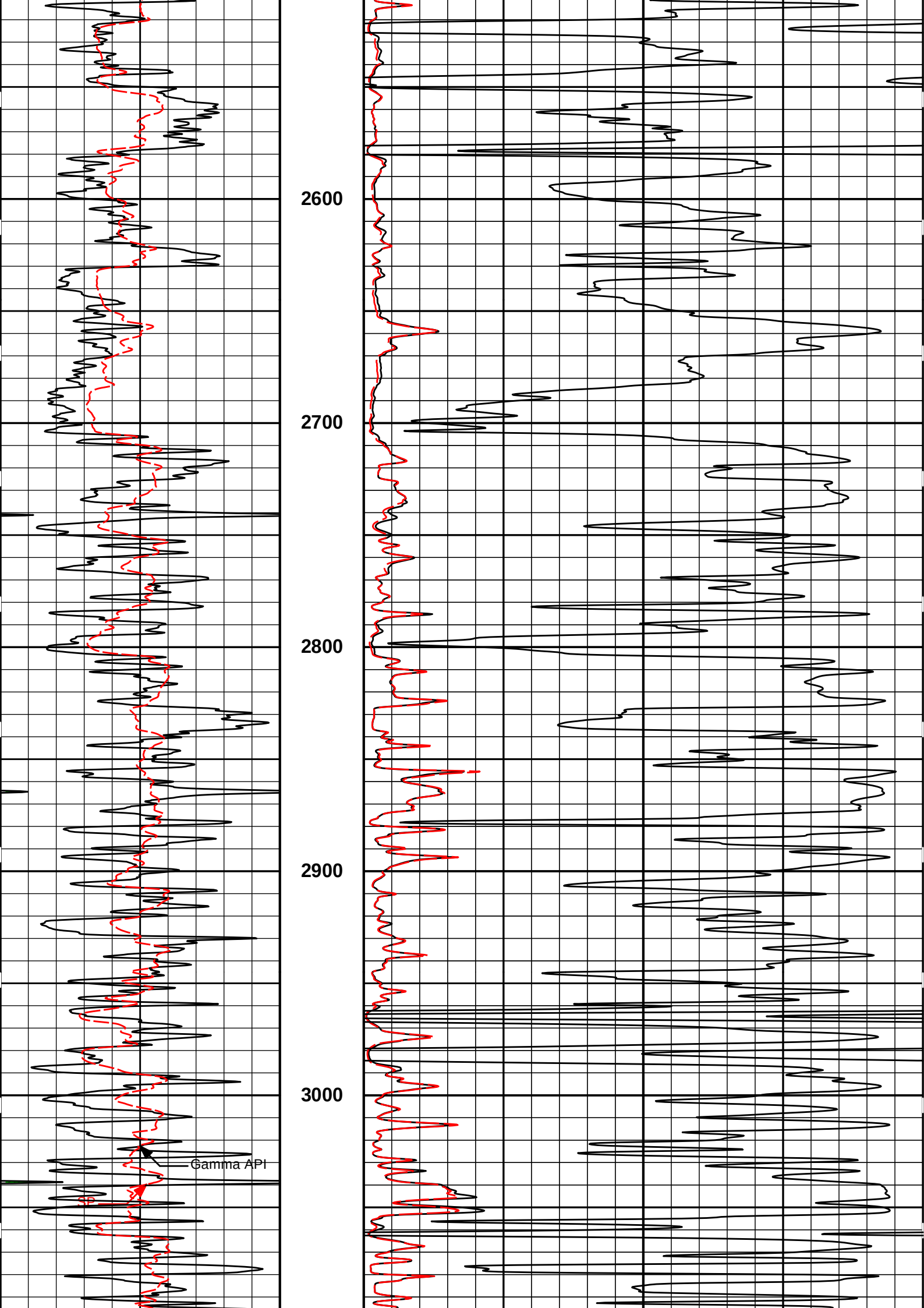
2 INCH MAIN LOG

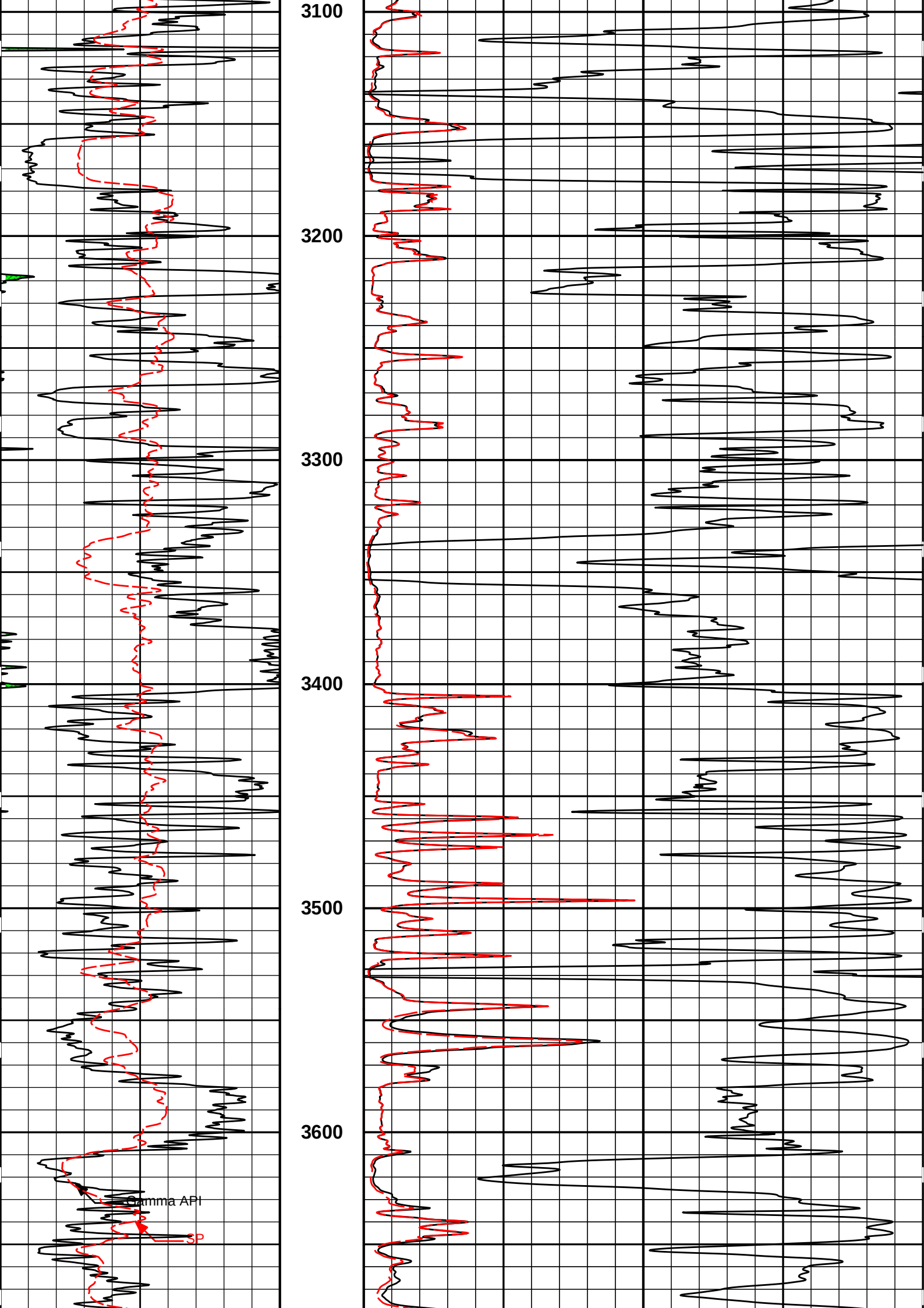


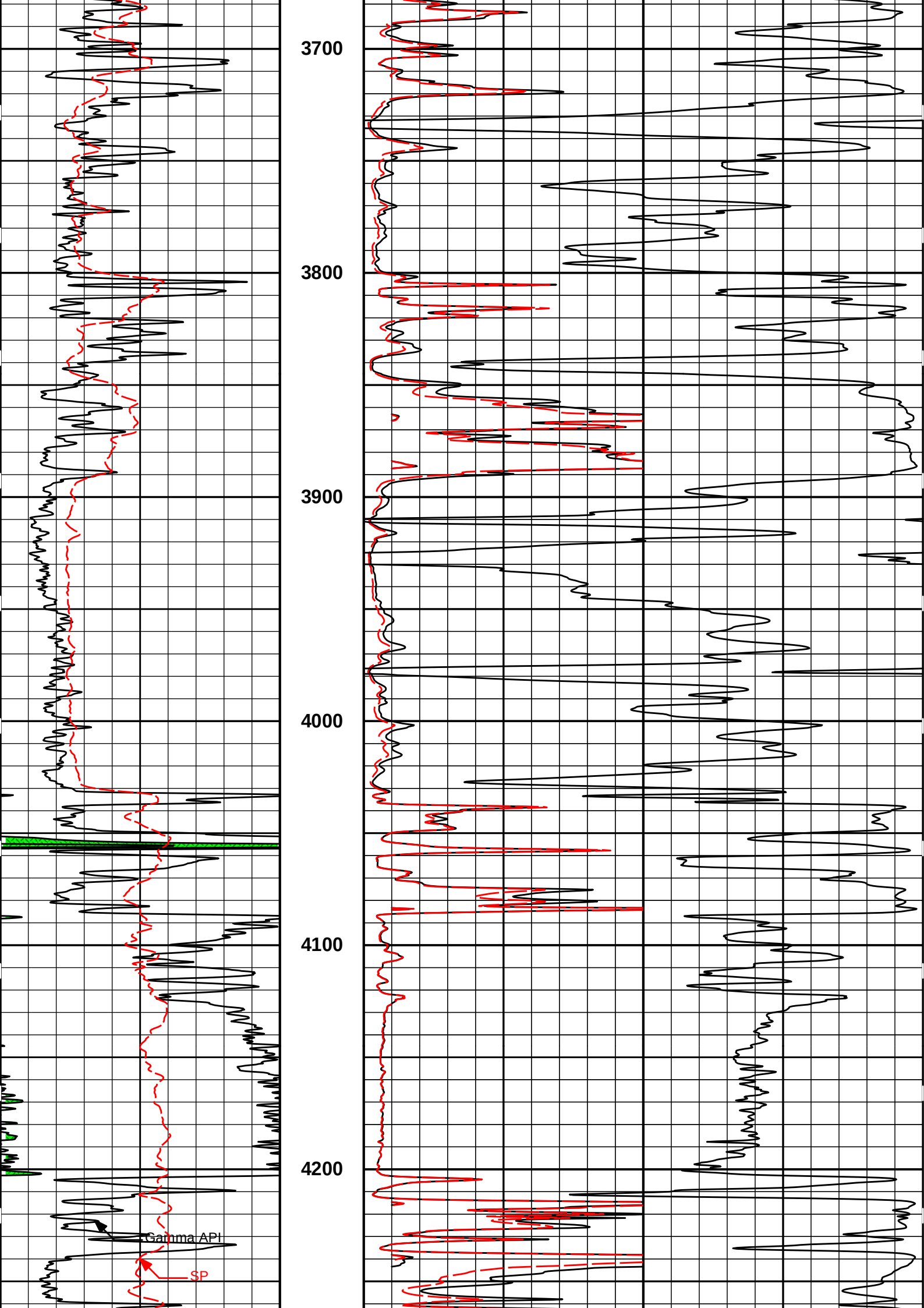

800
900
1000
1100
1200
1300
SP
Gamma API

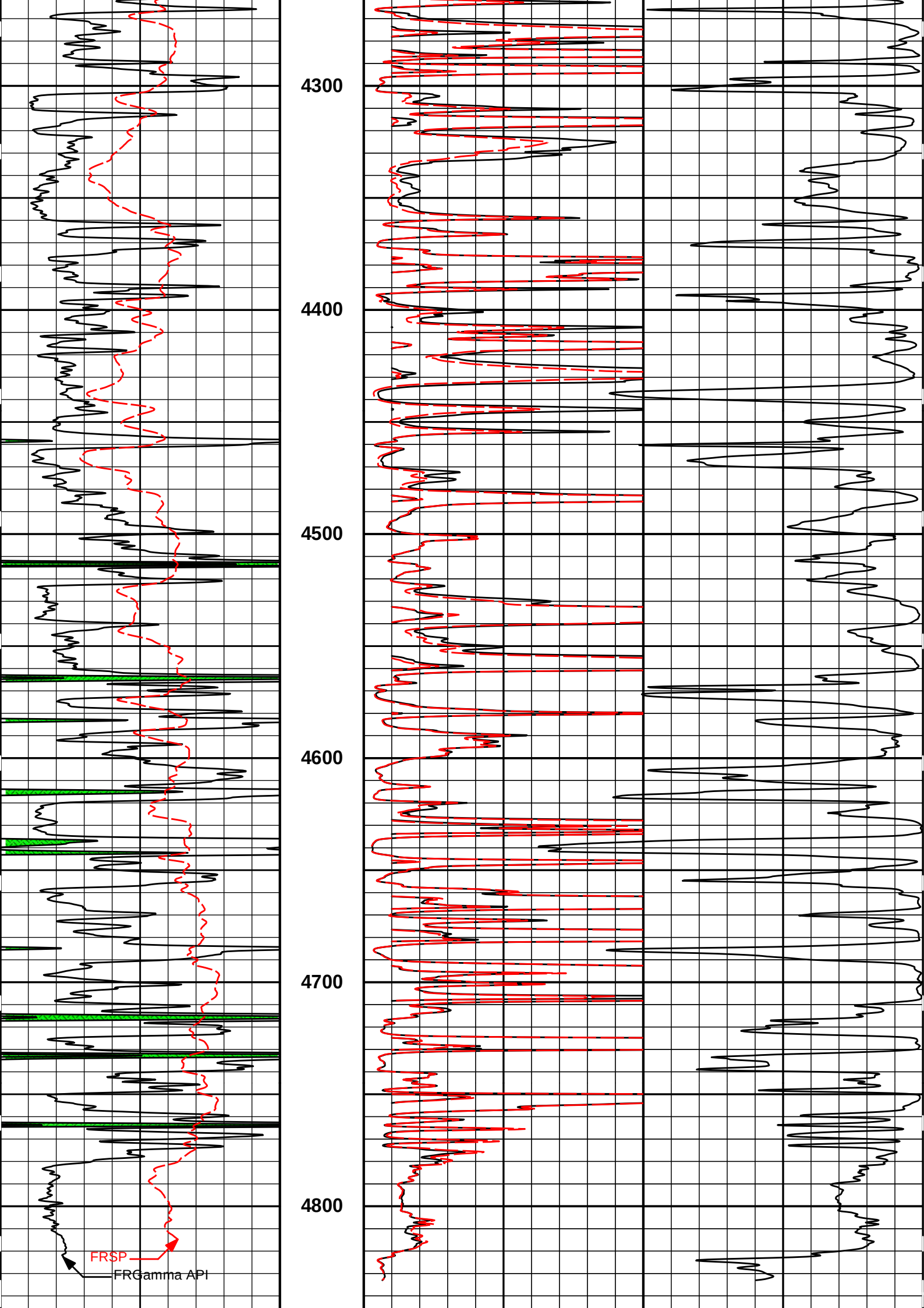

1400
1500
1600
1700
1800
1900
SP
Gamma API


2000
2100
2200
2300
2400
2500
Gamma API
SP


2600
2700
2800
2900
3000
Gamma API


3100
3200
3300
3400
3500
3600
Gamma API
SP


3700
3800
3900
4000
4100
4200
Gamma API
SP


4300
4400
4500
4600
4700
4800
FRSP
FRGamma API

0 Gamma API 150	MD 1 : 600 ft	0 20in Resistivity 2ft Res 50
api		ohm-metre
SP		0 90in Resistivity 2ft Res 50
-]20[+		ohm-metre
		1000 90in Conductivity 2ft Res 0
		mmho per metre

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Plot Time: 31-Mar-15 01:31:30
Plot Range: 545 ft to 4845.92 ft
Data: YOST 2-28\Well Based\ACRT MAIN\
Plot File: \\-LOCAL-\YOST 2-28\Well Based\ACRT 5\ACRT_2_lib

2 INCH MAIN LOG

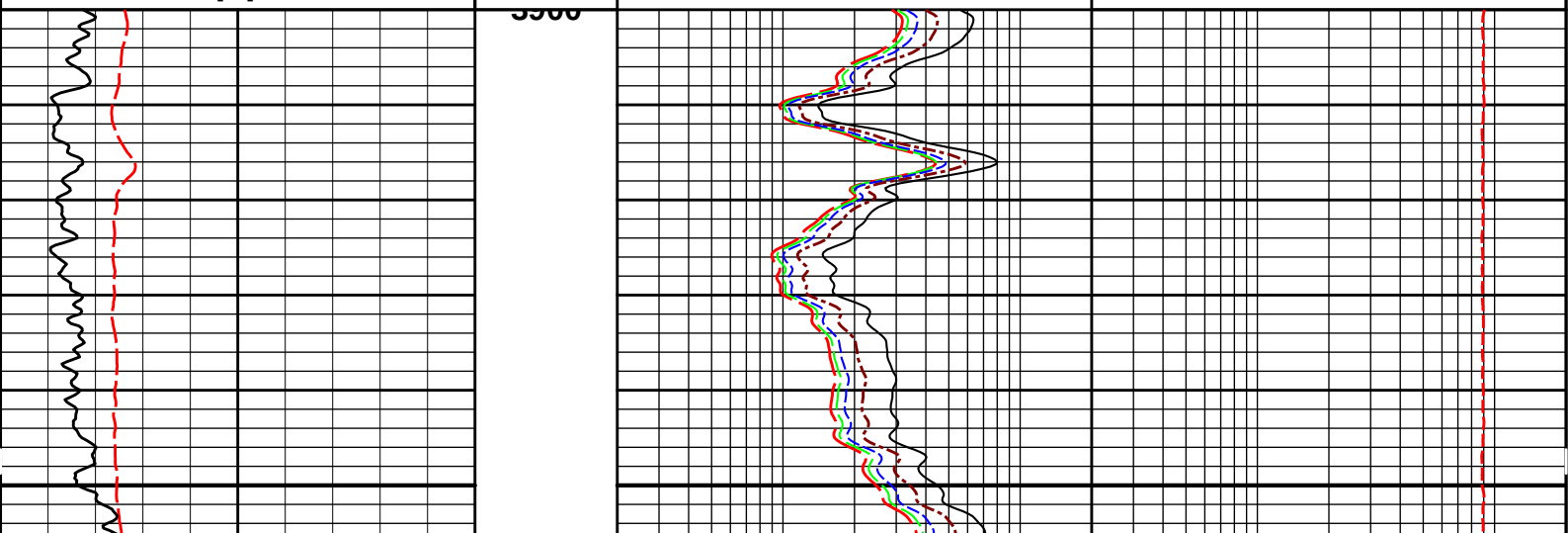
HALLIBURTON

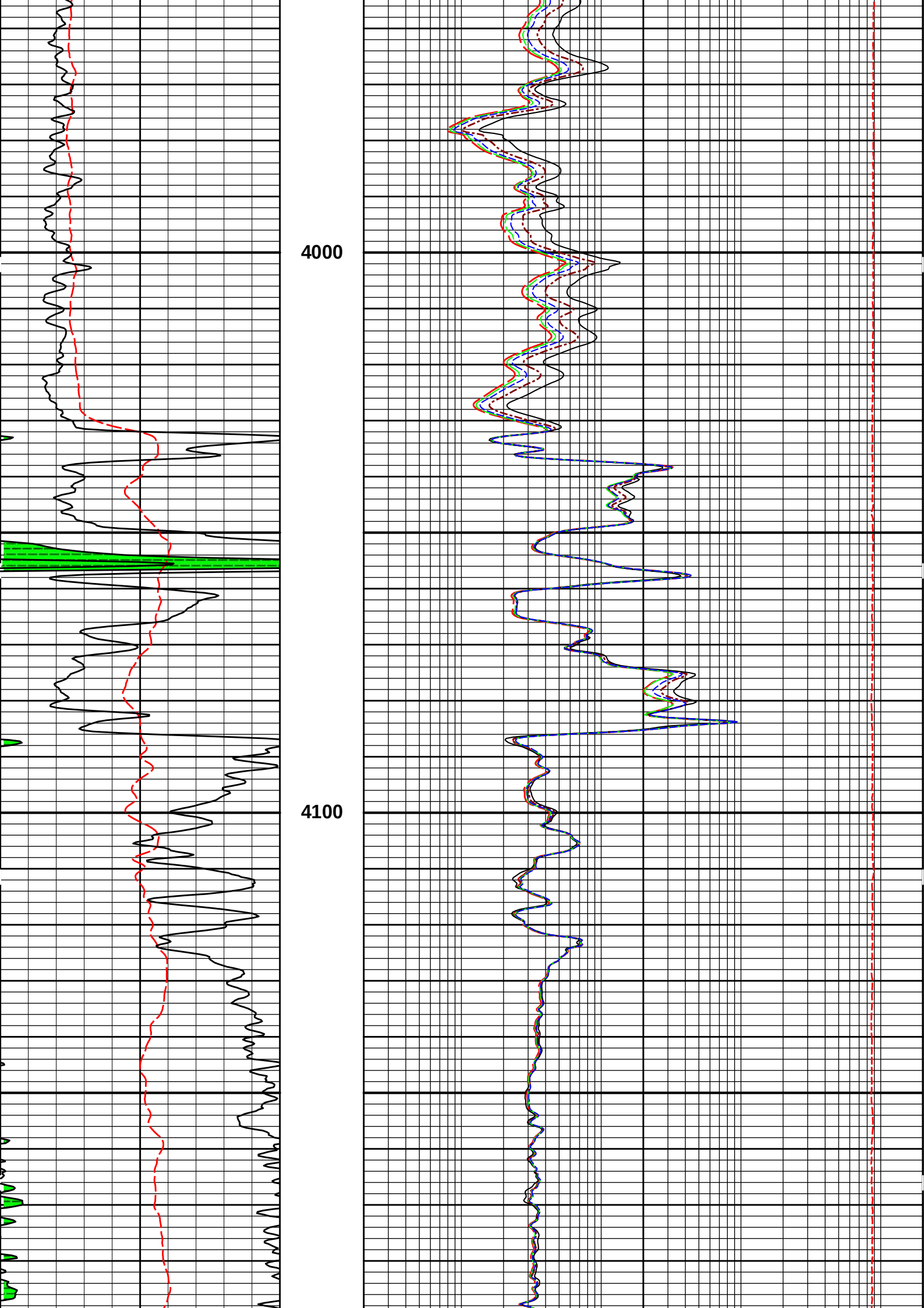
Plot Time: 31-Mar-15 01:31:30
Plot Range: 3900 ft to 4845.92 ft
Data: YOST 2-28\Well Based\ACRT DETAILS\
Plot File: \\-LOCAL-\YOST 2-28\Well Based\ACRT 5\ACRT_5_main_lib

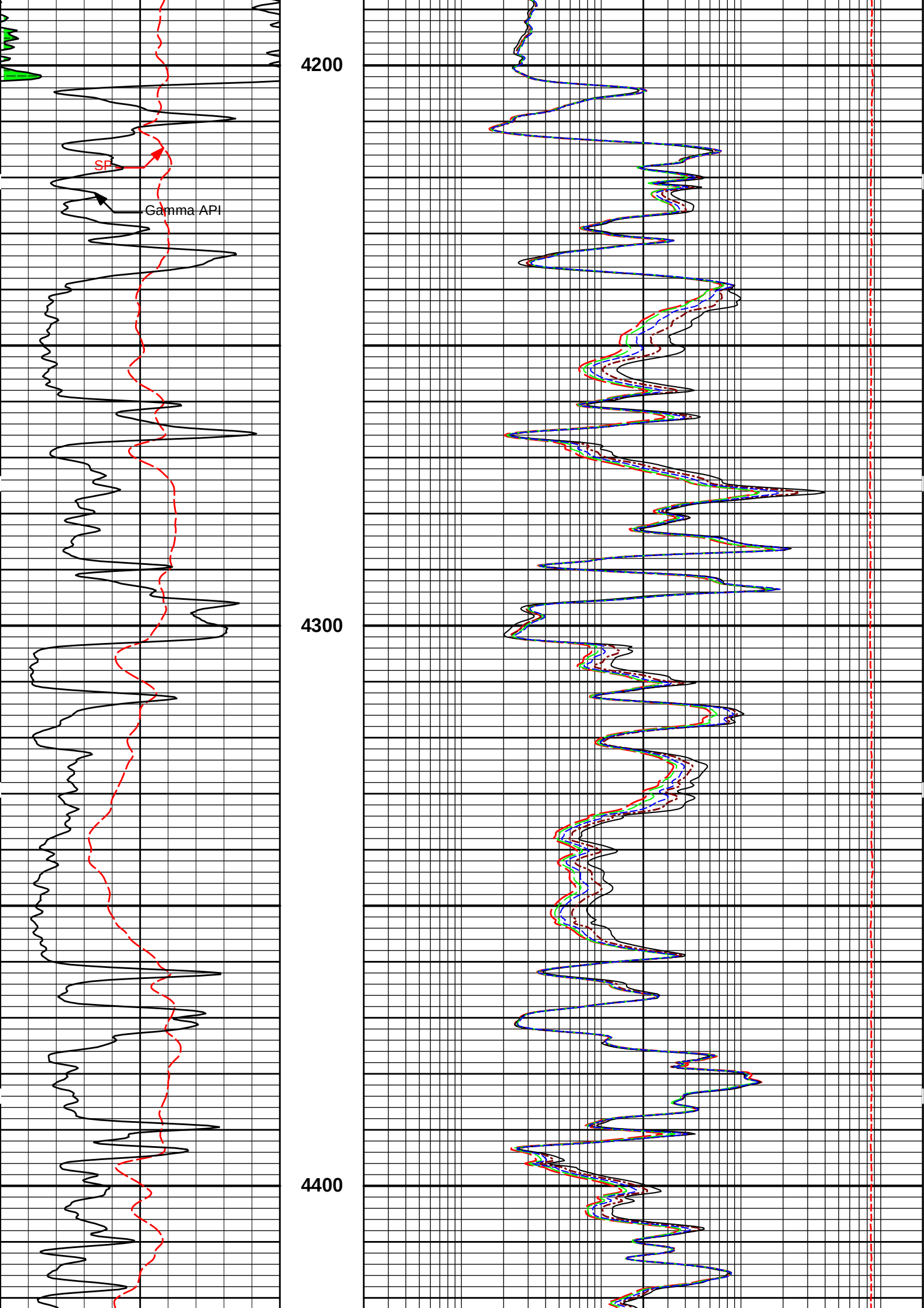
5 INCH MAIN LOG

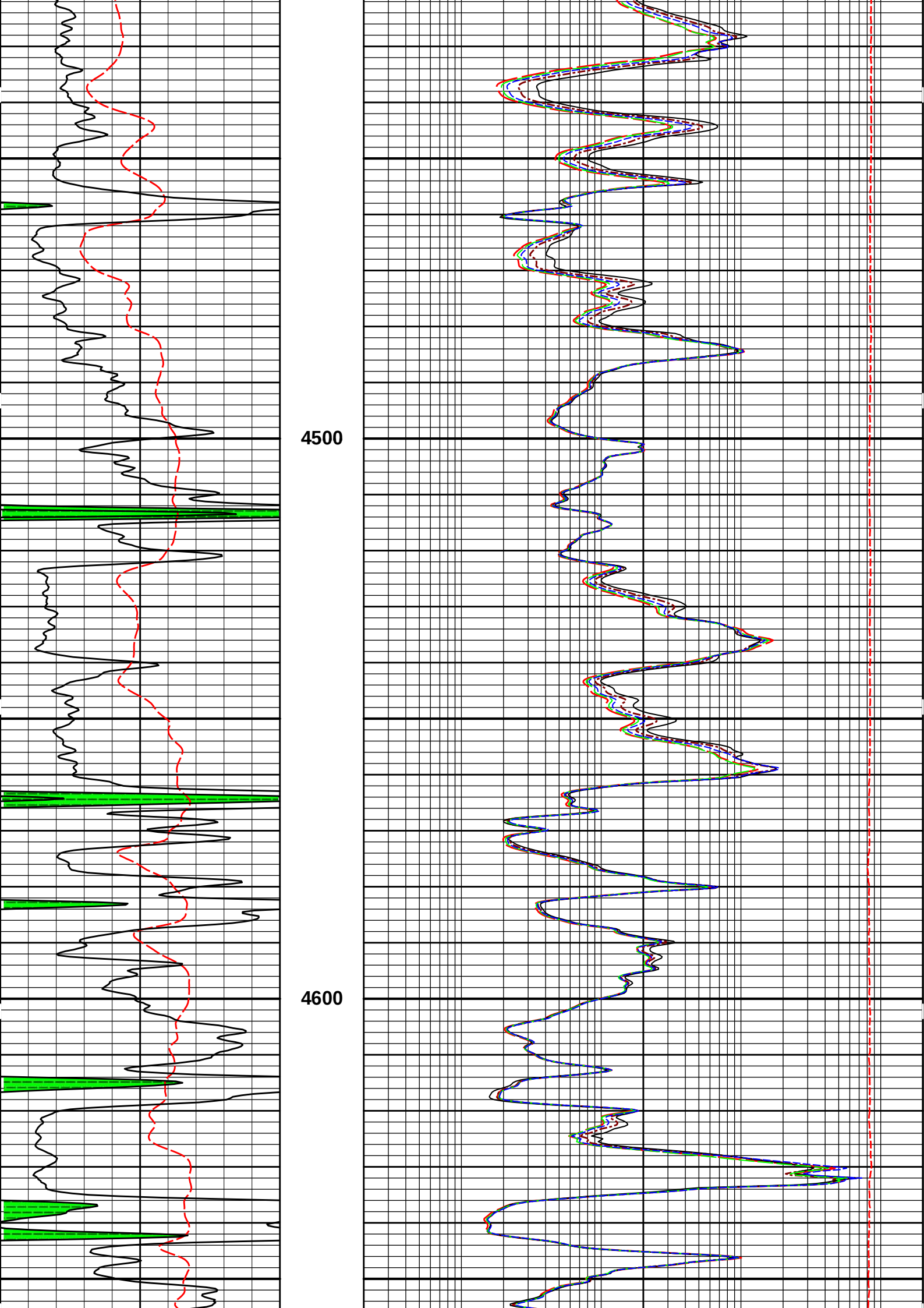
MEASURED DEPTH
MAIN SECTION 5" PER 100'

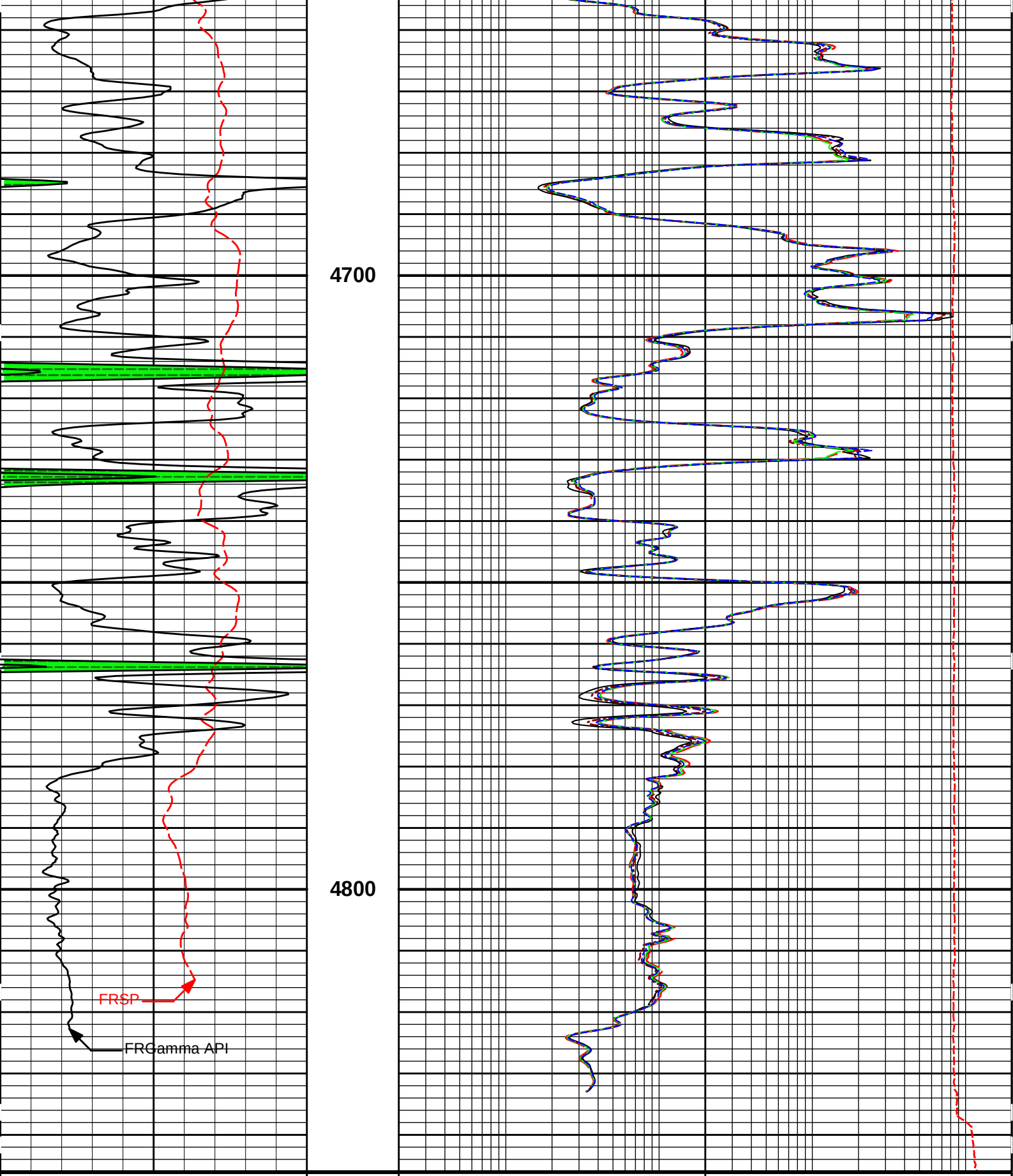
		0.2 90in Resistivity 2ft Res 2000
		ohmm
		0.2 60in Resistivity 2ft Res 2000
		ohmm
		0.2 30in Resistivity 2ft Res 2000
		ohm-metre
SHALE		0.2 20in Resistivity 2ft Res 2000
		ohmm
0 Gamma API 150		0.2 10in Resistivity 2ft Res 2000
api		ohmm
SP	MD 1 : 240 ft	10K Tension 0
-]20[+		pounds
	3900	




4000
4100


4200
4300
4400
SP
Gamma API


4500
4600



SP

-]20[+

0 Gamma API 150

api

SHALE

MD
1 : 240
ft

10K Tension 0

pounds

0.2 10in Resistivity 2ft Res 2000

ohmm

0.2 20in Resistivity 2ft Res 2000

ohmm

0.2 30in Resistivity 2ft Res 2000

ohm-metre

0.2 60in Resistivity 2ft Res 2000

ohmm

0.2 90in Resistivity 2ft Res 2000

ohmm

HALLIBURTON

Plot Time: 31-Mar-15 01:31:32
Plot Range: 3900 ft to 4845.92 ft
Data: YOST 2-28\Well Based\ACRT DETAILS\
Plot File: \\-LOCAL-\YOST 2-28\Well Based\ACRT 5\ACRT_5_main_lib

5 INCH MAIN LOG

MEASURED DEPTH
MAIN SECTION 5" PER 100'

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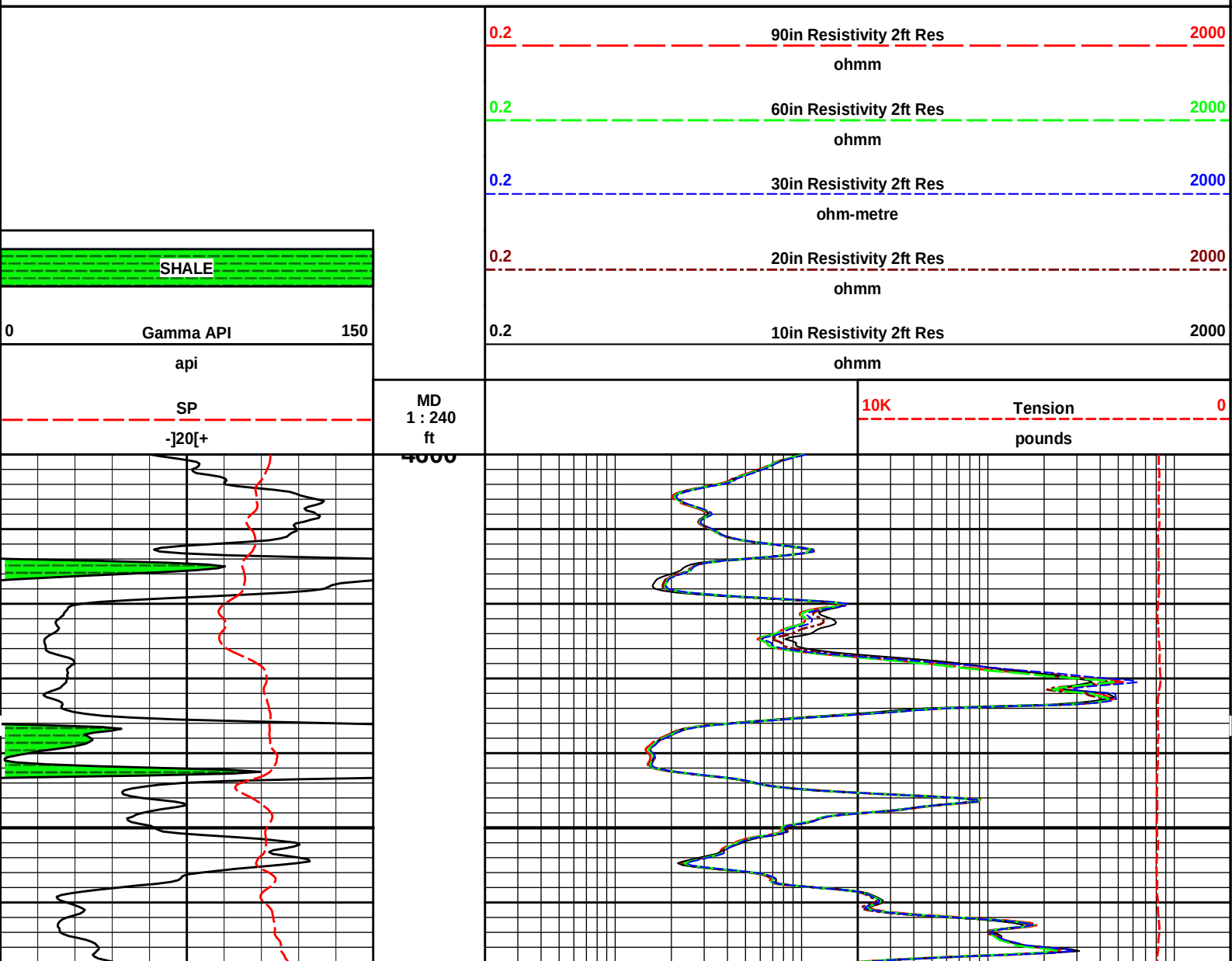
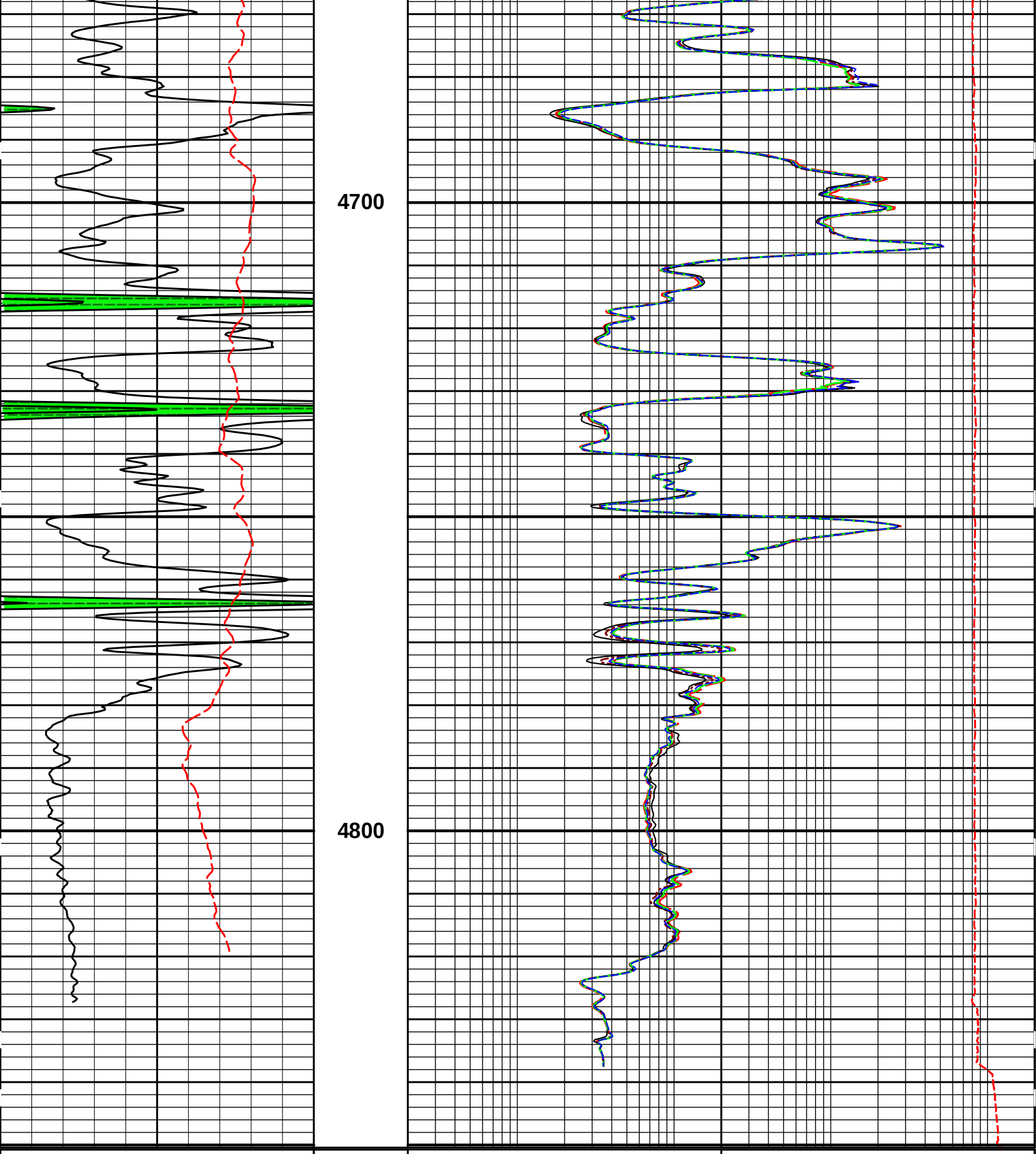
Plot Time: 31-Mar-15 01:31:33
Plot Range: 4600 ft to 4850.42 ft
Data: YOST 2-28\Well Based\ACRT REPEAT\
Plot File: \\-LOCAL-\YOST 2-28\Well Based\ACRT 5\ACRT_5_repeat_lib

REPEAT SECTION





SP

-]20[+

0 Gamma API 150

api

SHALE

MD
1 : 240
ft

10K Tension 0

pounds

0.2 10in Resistivity 2ft Res 2000

ohmm

0.2 20in Resistivity 2ft Res 2000

ohmm

0.2 30in Resistivity 2ft Res 2000

ohm-metre

0.2 60in Resistivity 2ft Res 2000

ohmm

0.2	90in Resistivity 2ft Res	2000
	ohmm	

HALLIBURTON

Plot Time: 31-Mar-15 01:31:34
Plot Range: 4600 ft to 4850.42 ft
Data: YOST 2-28\Well Based\ACRT REPEAT\
Plot File: \\-LOCAL-\YOST 2-28\Well Based\ACRT 5\ACRT_5_repeat_lib

REPEAT SECTION

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TOOL STRING DIAGRAM : SP-GTET-ACRT-BN

Description	Overbody Description	O.D.	Sensors @ Delays	Length	Accumulated Length
					38.09 ft
RWCH-12156658 135.00 lbs		Ø 3.625 in	Load Cell @ 34.41 ft BH Temperature @ 33.84 ft	6.25 ft	
					31.84 ft
SP Sub-12345678 60.00 lbs		Ø 3.625 in	SP @ 30.06 ft	3.74 ft	
					28.10 ft
GTET-11048627 165.00 lbs		Ø 3.625 in	GammaRay @ 22.04 ft	8.52 ft	
					19.58 ft
ACRt Instrument-11022962 50.00 lbs		Ø 3.625 in		5.03 ft	
					14.55 ft
	Regal Standoff 6_75-00000001 20.00 lbs	Ø 6.750 in*	Mud Resistivity @ 13.19 ft		
			ACRt @ 9.21 ft		
ACRt Sonde-11005909 200.00 lbs		Ø 3.625 in		14.22 ft	
					0.33 ft
Bull Nose-00000001 5.00 lbs		Ø 2.750 in		0.33 ft	
					0.00 ft

Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)

RWCH	Releasable Wireline Cable Head	12156658	135.00	6.25	31.84	300.00
SP	SP Sub	12345678	60.00	3.74	28.10	300.00
GTET	Gamma Telemetry Tool	11048627	165.00	8.52	19.58	60.00
ACRt	Array Compensated True Resistivity Instrument Section	11022962	50.00	5.03	14.55	120.00
ACRt	Array Compensated True Resistivity Sonde Section	11005909	200.00	14.22	0.33	120.00
RSOF	Regal Standoff 6.75in	00000001	20.00	0.52 *	12.25	300.00
BLNS	Bull Nose	00000001	5.00	0.33	0.00	300.00
Total			**635.00**	**38.09**		

* Not included in Total Length and Length Accumulation.

Data: SP-GTET-ACRT-BN **Date: 30-Mar-15 21:40:19**

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CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name: GTET - 11048627 **Reference Calibration Date:** 30-Mar-15 15:50:45

Engineer: SUHAIL BISHTI **Calibration Date:** 30-Mar-15 15:53:53

Software Version: WL INSITE R4.6.4 (Build 3) **Calibration Version:** 1

Calibrator Source S/N: Error

Calibrator API Reference:265.00 api

Equivalent Calibrator API Reference:269.6 api

Measurement	Measured	Calibrated	Units
Background	52.6	52.1	api
Background + Calibrator	324.9	321.7	api
Calibrator	272.3	269.6	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name: GTET - 11048627 **Reference Calibration Date:** 30-Mar-15 15:53:53

Engineer: SUHAIL BISHTI **Calibration Date:** 30-Mar-15 15:56:51

Software Version: WL INSITE R4.6.4 (Build 3) **Calibration Version:** 1

Calibrator Source S/N: Error

Calibrator API Reference:265.00 api

Equivalent Calibrator API Reference:269.6 api

Field Verification	Shop	Field	Units
Background	52.1	52.3	api
Background + Calibrator	321.7	323.7	api
Calibrator	269.6	271.4	api

Shop	Field	Difference	Tolerance
269.6	271.4	-1.8	+/- 9.00

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION

Tool Name: ACRt Sonde - 11005909 **Reference Calibration Date:** 29-Dec-14 10:31:07

Engineer: J. BOLLOM **Calibration Date:** 18-Feb-15 09:38:01

Software Version: WL INSITE R4.6.4 (Build 3) **Calibration Version:** 1

Host Tool Name: ACRt Instrument - 11022962

TYPICAL GAIN RANGE

Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.0335	1.05	0.95	1.0347	1.05	0.95	1.0301	1.05
A2 (50")	0.95	1.0208	1.05	0.95	1.0224	1.05	0.95	1.0199	1.05
A3 (29")	0.95	1.0209	1.05	0.95	1.0226	1.05	0.95	1.0184	1.05
A4 (17")	0.95	1.0226	1.05	0.95	1.0210	1.05	0.95	1.0182	1.05
A5 (10")	N/A	N/A	N/A	0.95	1.0245	1.05	0.95	1.0188	1.05

A6 (6")	N/A	N/A	N/A	0.95	0.9939	1.05	0.95	0.9899	1.05

SONDE OFFSET

Subarray	R12KHz (mmho/m)	R36KHz (mmho/m)	R72KHz (mmho/m)
A1 (80")	-0.341	-3.614	-5.292
A2 (50")	-1.566	-3.514	-4.651
A3 (29")	-14.315	-4.432	-2.846
A4 (17")	-103.295	-30.860	-26.404
A5 (10")	N/A	-102.126	-46.126
A6 (6")	N/A	286.597	151.999

TRANSMITTER CURRENT GAIN

Signal	Lower	R	Upper
12K	0.6	0.87	1.3
36K	1.0	1.34	2.0
72K	1.0	1.58	2.0

R-MUD VERIFICATION

Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
Mud Cell	0.95	1.00	1.05

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-11048627						
Gamma Ray Calibrator	269.6	271.4	----------	-1.8	+/- 9.00	api
ACRt Sonde-11005909						
Mud Cell	1.00	----------	----------	0.00	----------	ohm-m

Data: YOST 2-28\0001 SP-GTET-ACRT-BN\IDLE **Date: 30-Mar-15 21:44:25**

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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	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	4840.00	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	Depth Panel	
	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	
	GTET	BHSM	Borehole Size Source Tool	Depth Panel	
	ACRt Sonde	RTOK	Process ACRt?	Yes	
	ACRt Sonde	MNSO	Minimum Tool Standoff	1.50	in
	ACRt Sonde	TCS1	Temperature Correction Source	FP Lwr & FP Upr	
	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	Depth Panel	
	ACRt Sonde	MBFL	Apply Corkscrew Effect?	No	
BOTTOM					

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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	38.09	NO	
BS	Bit Size	38.09	NO	
HDIA	Measured Hole Diameter	0.00	NO	
	RWCH			
DHTN	DownholeTension	0.00	BLK	0.000
	SP Sub			
PLTC	Plot Control Mask	30.06	NO	
SP	Spontaneous Potential	30.06	BLK	1.250
SPR	Raw Spontaneous Potential	30.06	NO	
SPO	Spontaneous Potential Offset	30.06	NO	

GTET				
TPUL	Tension Pull	22.04	NO	
GR	Natural Gamma Ray API	22.04	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	22.04	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	22.04	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	

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
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

Data: YOST 2-28\0001 SP-GTET-ACRT-BN\IDLE **Date: 30-Mar-15 21:43:48**

COMPANY	**HERMAN L. LOEB, LLC**		
WELL	**YOST 2-28**		
FIELD	**EINSEL**		
COUNTY	**KIOWA**	STATE	**KANSAS**

HALLIBURTON

ARRAY COMPENSATED TRUE RESISTIVITY LOG