

HERMAN L. LOEB, LLC										ARRAY COMPENSATED TRUE RESISTIVITY LOG																			
COMPANY					KOGER #3					COMPANY					HERMAN L. LOEB, LLC														
WELL					ALFORD					WELL					KOGER #3														
FIELD/BLOCK					KIOWA					FIELD/BLOCK					ALFORD														
COUNTY					KANSAS					COUNTY					KIOWA														
STATE					KANSAS					STATE					KANSAS														
Permanent Datum					GL					Sect. 1					Twp. 30S					Rge. 19W					Other Services: DSNT/SDLT MICROLOG BSAT ACRT				
Log measured from					KB					Elev. 2270.0 ft										Elev.: K.B. 2281.0 ft									
Drilling measured from					KB					11.0 ft above perm. Datum										D.F. 2281.0 ft									
Date					15-Apr-16															G.L. 2270.0 ft									
Run No.					ONE																								
Depth - Driller					5357.00 ft																								
Depth - Logger					5356.0 ft																								
Bottom - Logged Interval					5347.00 ft																								
Top - Logged Interval					660.00 ft																								
Casing - Driller					8.625 in @ 660.0 ft															@									
Casing - Logger					660.0 ft																								
Bit Size					7.875 in															@									
Type Fluid in Hole					Water Based Mud																								
Density					9.3 ppg					62.00 s/qt																			
PH					10.50 pH					4.6 cpm																			
Source of Sample					MUD PIT																								
Rm @ Meas. Temperature					1.040 ohmm @ 75.00 degF															@									
Rmf @ Meas. Temperature					0.89 ohmm @ 75.00 degF															@									
Rmc @ Meas. Temperature					1.181 ohmm @ 75.00 degF															@									
Source Rmf					Rmc					MEAS					MEAS														
Rm @ BHT					0.65 ohmm @ 124.0 degF															@									
Time Since Circulation					3.0000 hr																								
Time on Bottom					15-Apr-16 02:45:00.000																								
Max. Rec. Temperature					124.0 degF @ 5356.0 ft															@									
Equipment					12156883					EL RENO																			
Recorded By					JORGE ORLANDO PEREZ																								
Witnessed By					JON CHRISTENSEN																								

Fold here

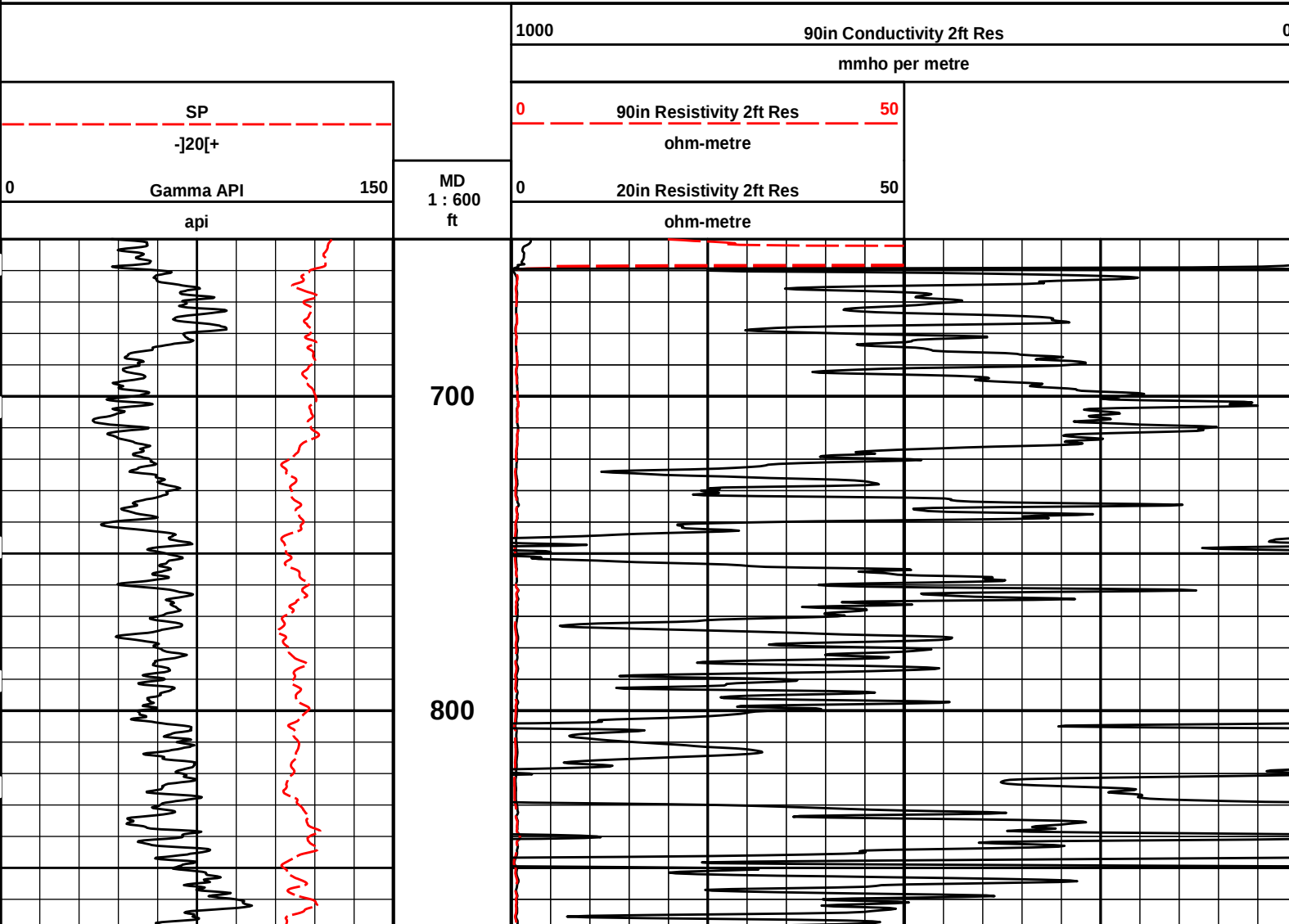
Service Ticket No.: 903246317						API Serial No.: 15-097-21823-00-00						PGM Version: WL INSITE R4.6.3 (Build 5)							
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE										RESISTIVITY SCALE CHANGES									
Date	Sample No.					Type Log	Depth	Scale Up Hole				Scale Down Hole							
Depth-Driller																			
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	ACRT	N/A		1.5 S.O.		N/A							
Rmc @ Meas. Temp.		@		@			I-11055059												
Source Rmf	Rmc						S-11038385												
Rm @ BHT		@		@															
Rmf @ BHT		@		@															
Rmc @ BHT		@		@															
EQUIPMENT DATA																			
GAMMA				ACOUSTIC				DENSITY				NEUTRON							
Run No.	ONE			Run No.	ONE			Run No.	ONE			Run No.	ONE						
Serial No.	11021139			Serial No.	11014316			Serial No.	10951315			Serial No.	11019641						
Model No.	GTET			Model No.	BSAT			Model No.	SDLT			Model No.	DSNT						
Diameter	3.625"			No. of Cent.	2			Diameter	5.3"			Diameter	3.625"						
Detector Model No.	T-102			Spacing	EVEN			Log Type	GAM-GAM			Log Type	NEU-NEU						
Type	SCINT							Source Type	CS137			Source Type	AM241BE						
Length	8"			LSA [Y/N]				Serial No.	5577GW			Serial No.	DSN-373						
Distance to Source	N/A			FWDA [Y/N]				Strength	1.5 Ci			Strength	15.0 Ci						
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	TD	CSG	REC	0	150	30	-10	47.6 uSec/ft	30	-10	2.71 gr/cc	30	-10	LIME					

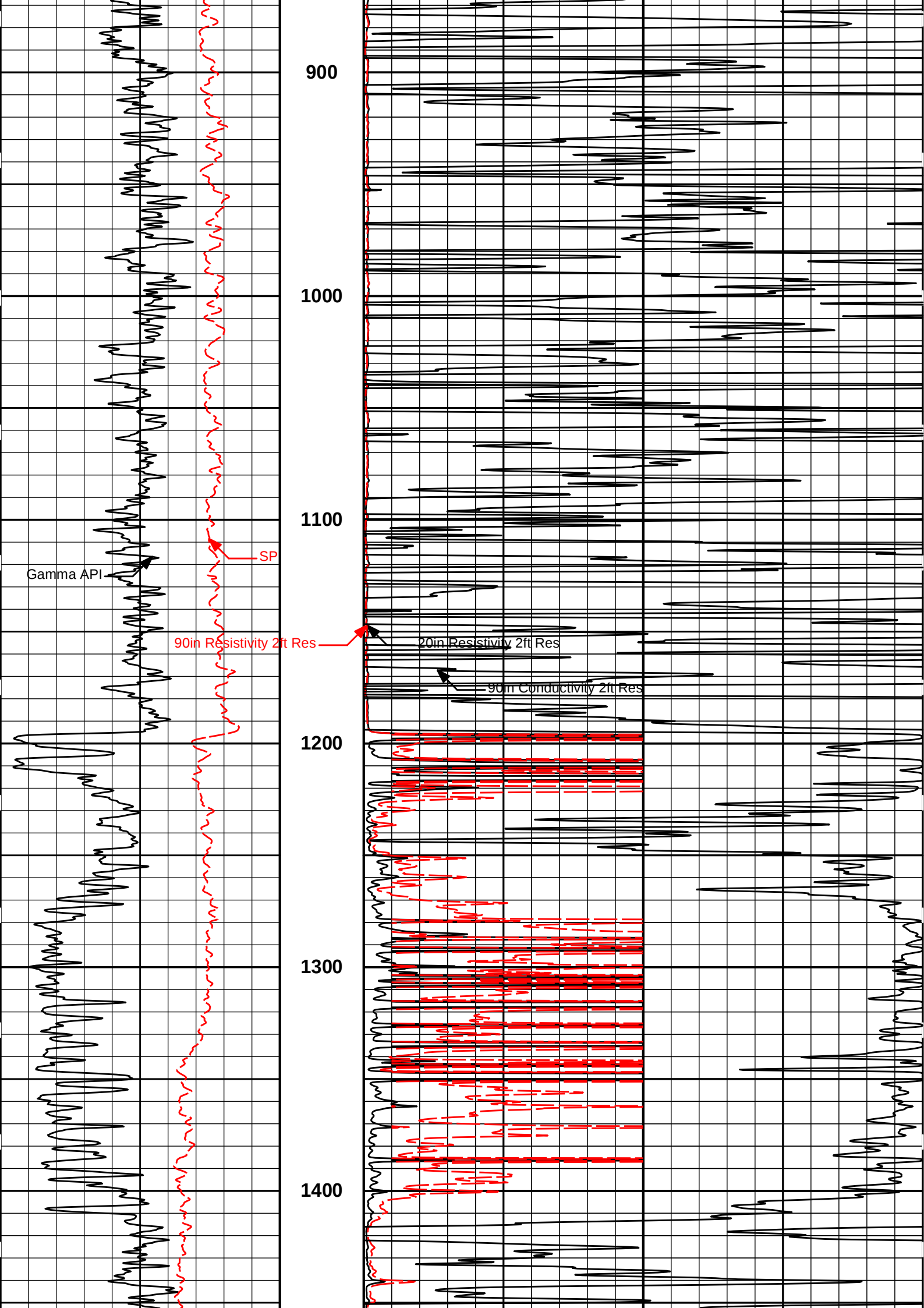
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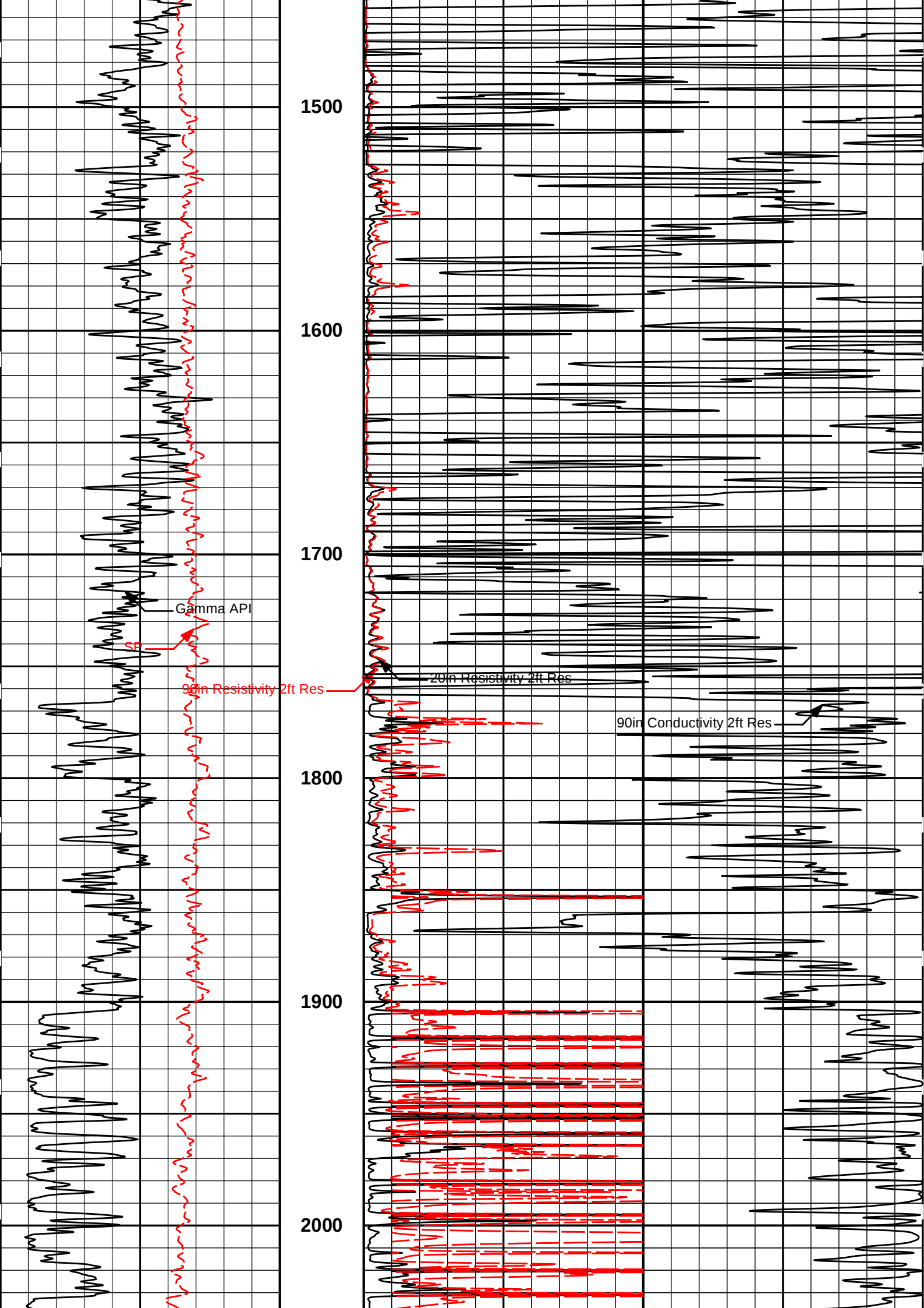
HALLIBURTON

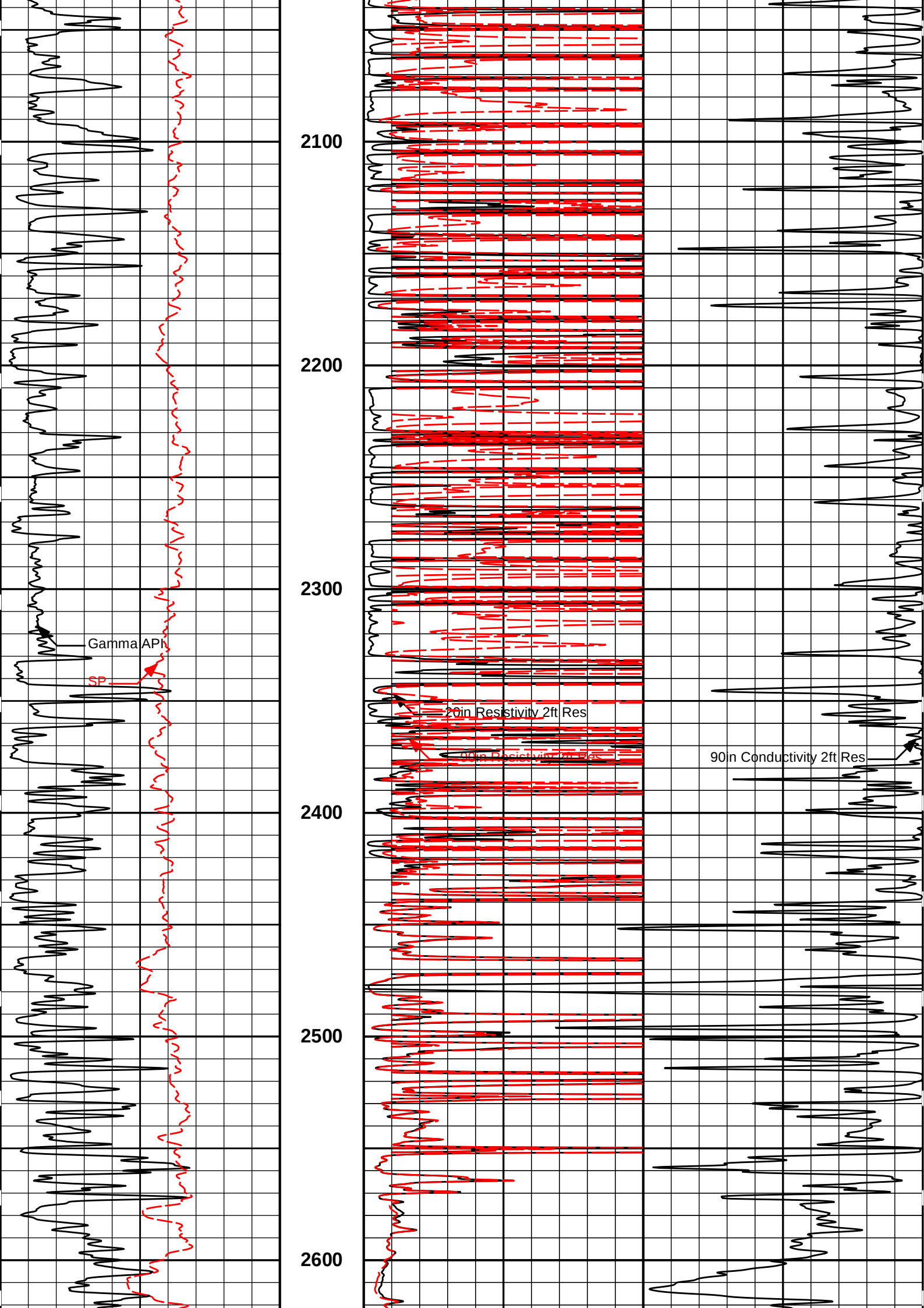
Plot Time: 15-Apr-16 04:44:55
Plot Range: 650 ft to 5359.42 ft
Data: KOGER_3\Well Based\MAIN\
Plot File: \\-LOCAL-KOGER_3\Well Based\ACRT\ACRT_2.lib

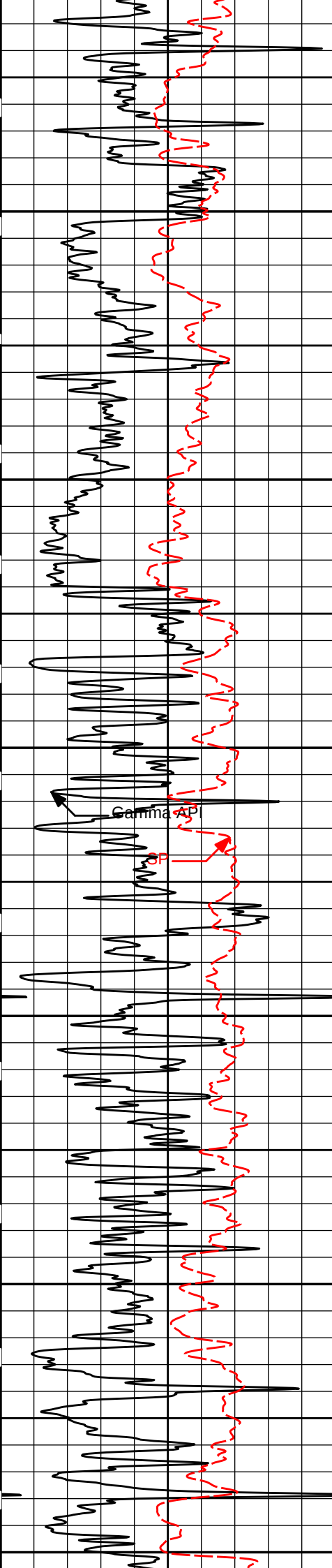
2 INCH MAIN LOG











2700

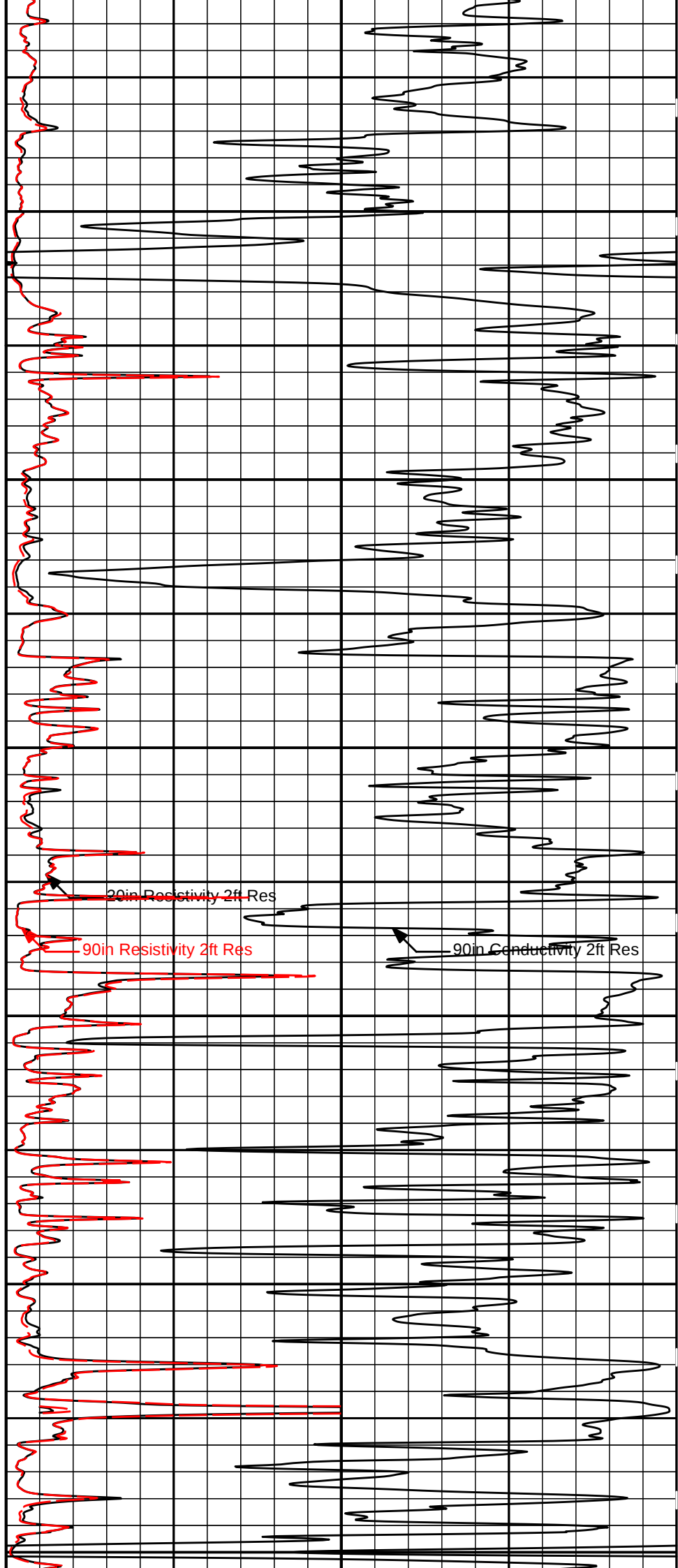
2800

2900

3000

3100

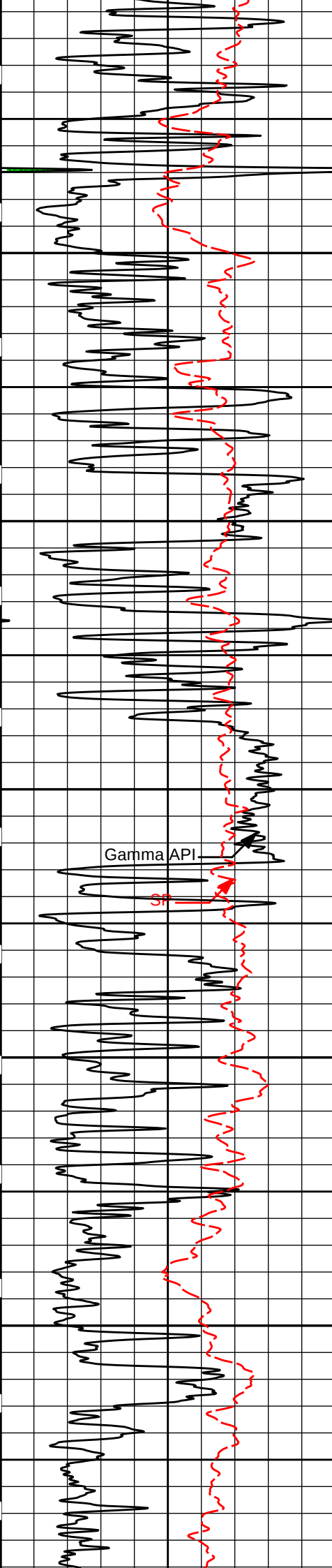
3200



20in Resistivity 2ft Res

90in Resistivity 2ft Res

90in Conductivity 2ft Res



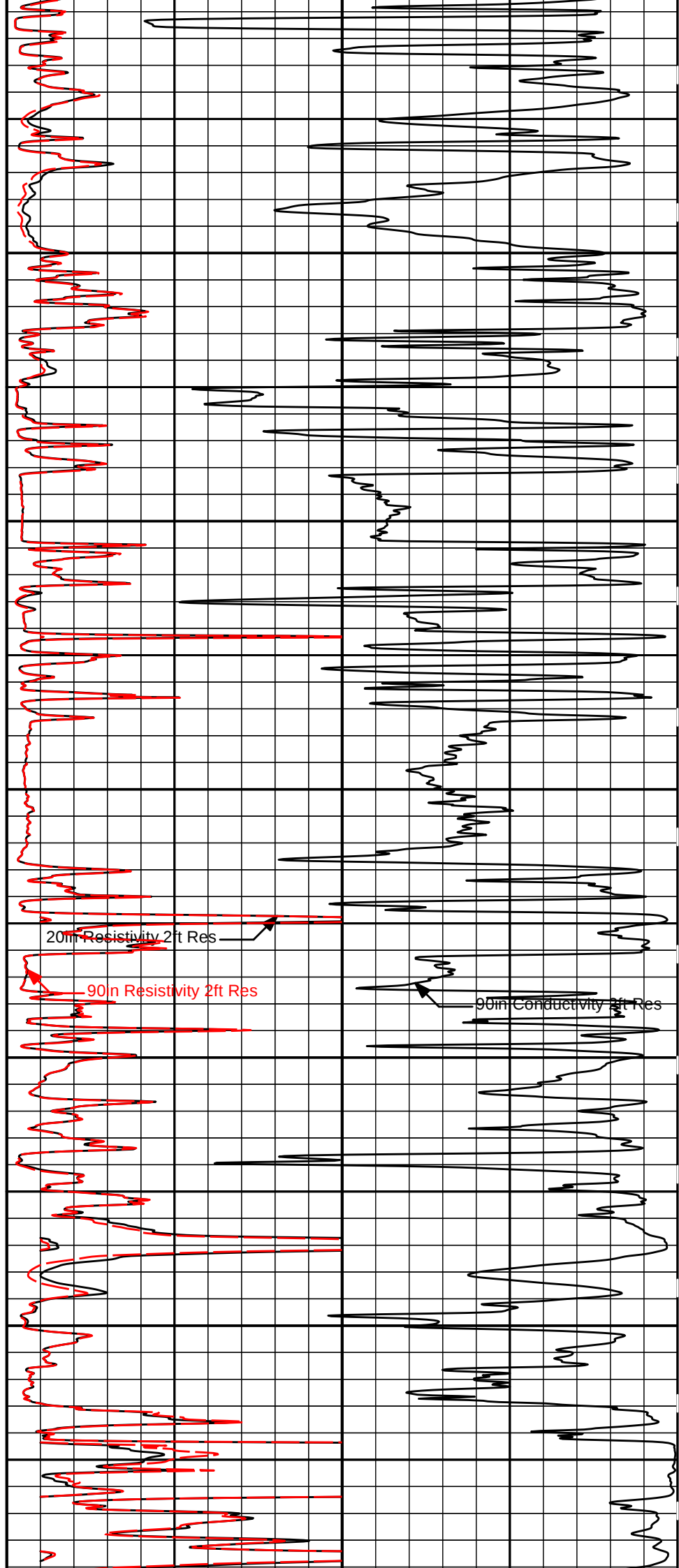
3300

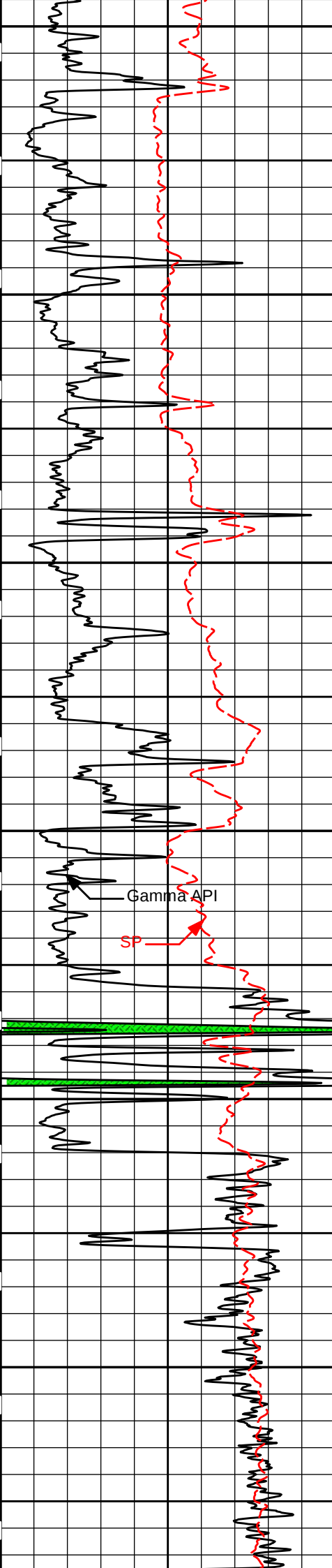
3400

3500

3600

3700





3800

3900

4000

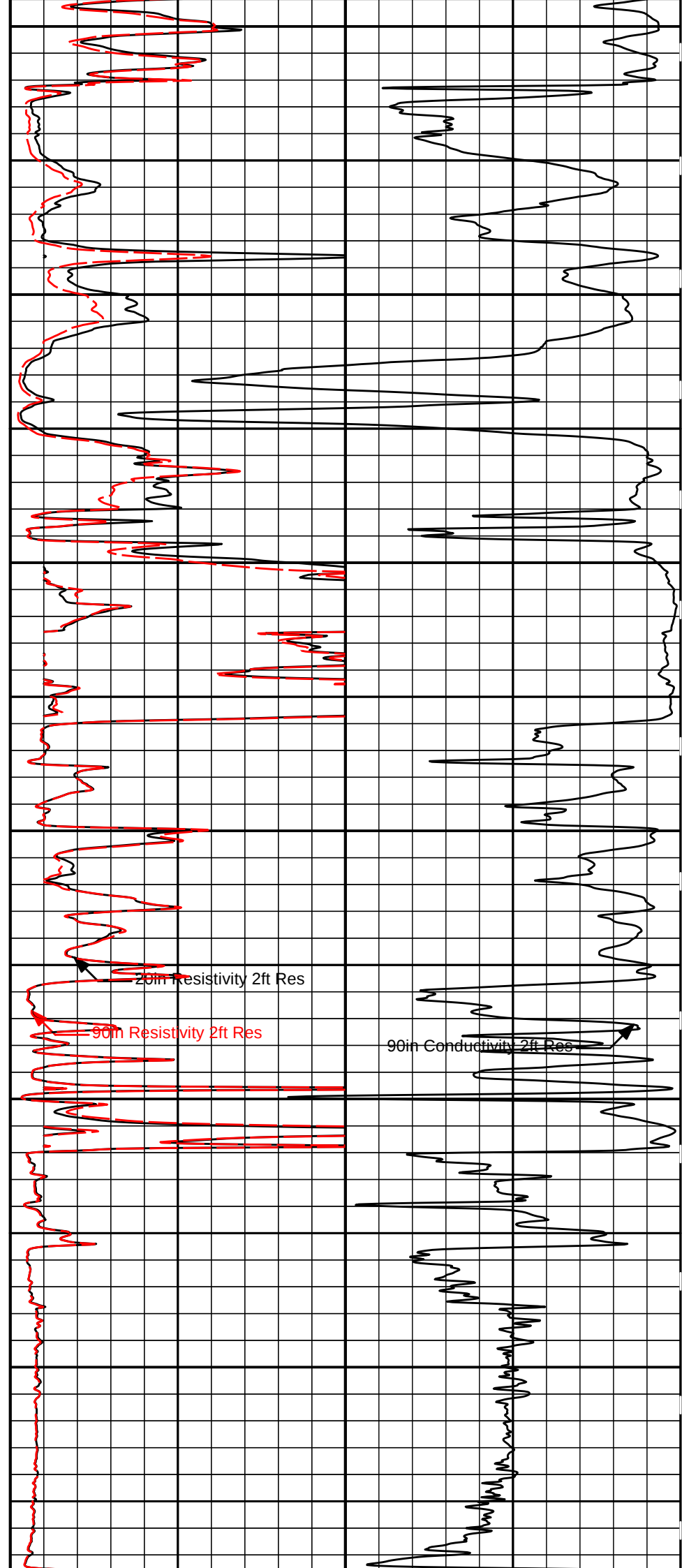
4100

4200

4300

Gamma API

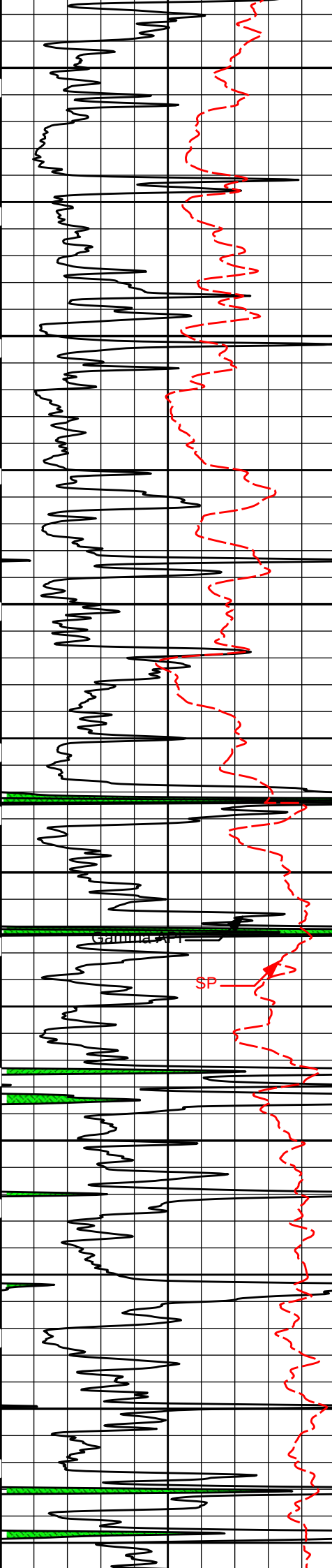
SP



20in Resistivity 2ft Res

90in Resistivity 2ft Res

90in Conductivity 2ft Res



4400

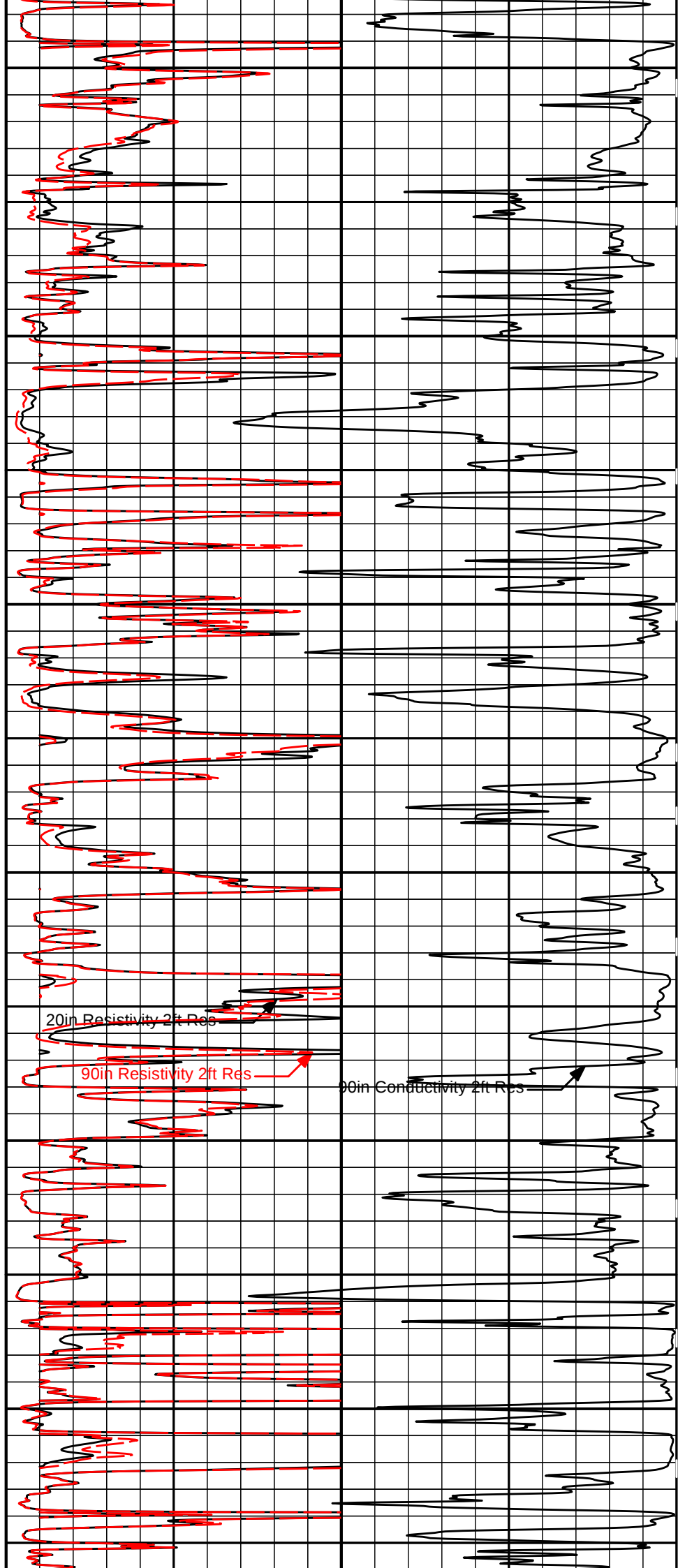
4500

4600

4700

4800

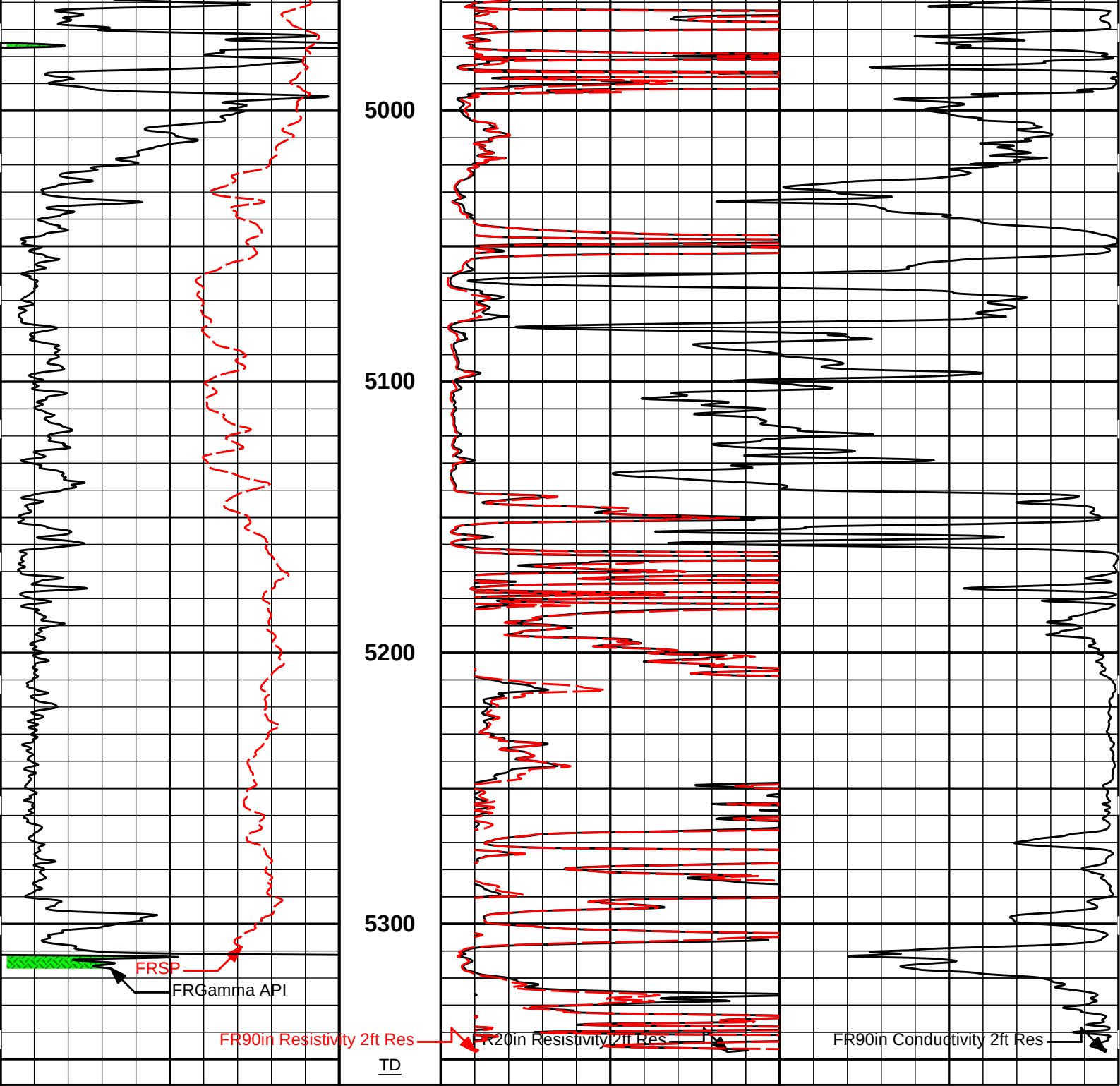
4900



20in Resistivity 2ft Res

90in Resistivity 2ft Res

90in Conductivity 2ft Res



0	Gamma API	150	MD 1 : 600 ft	0	20in Resistivity 2ft Res	50	
	api			ohm-metre			
	SP			0	90in Resistivity 2ft Res	50	
	-j20[+			ohm-metre			
				1000	90in Conductivity 2ft Res	0	
				mmho per metre			

HALLIBURTON

Plot Time: 15-Apr-16 04:44:57
Plot Range: 650 ft to 5359.42 ft
Data: KOGER_3\Well Based\MAIN\
Plot File: \\-LOCAL-KOGER_3\Well Based\ACRT\ACRT_2_lib

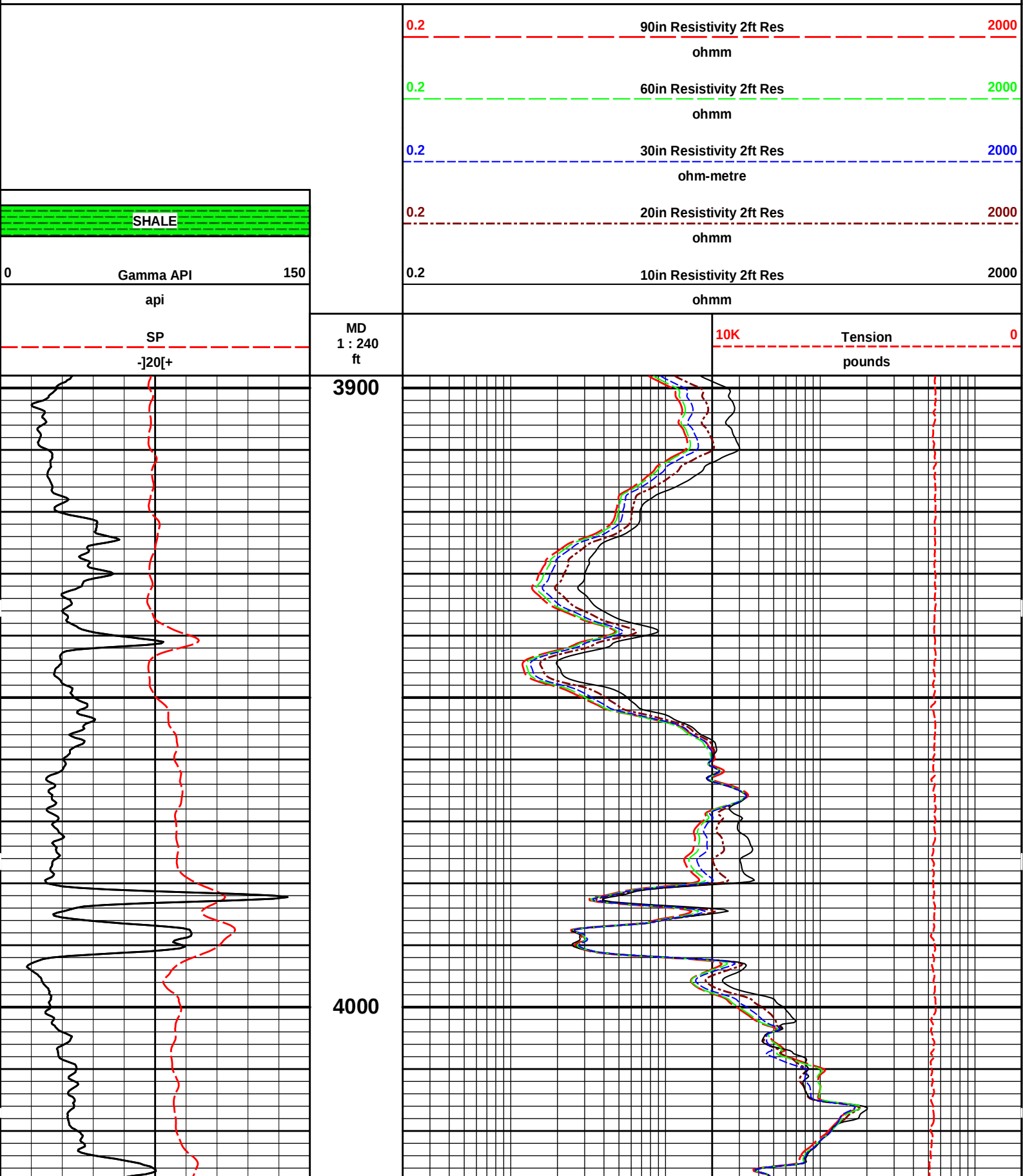
2 INCH MAIN LOG

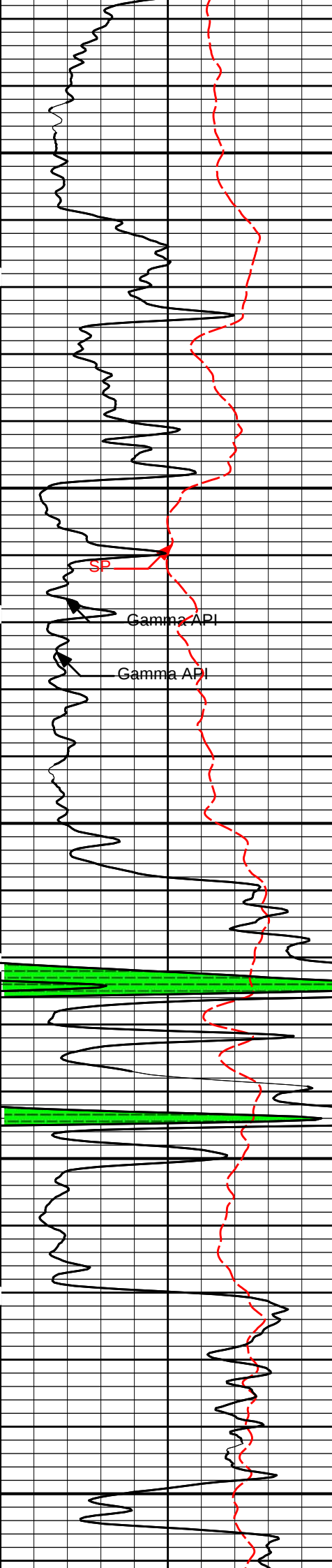
HALLIBURTON

Plot Time: 15-Apr-16 04:44:57
Plot Range: 3898 ft to 5359.42 ft
Data: KOGER_3\Well Based\DETAILS\
Plot File: \\-LOCAL-KOGER_3\Well Based\ACRT\ACRT_5_main_lib

5 INCH MAIN LOG

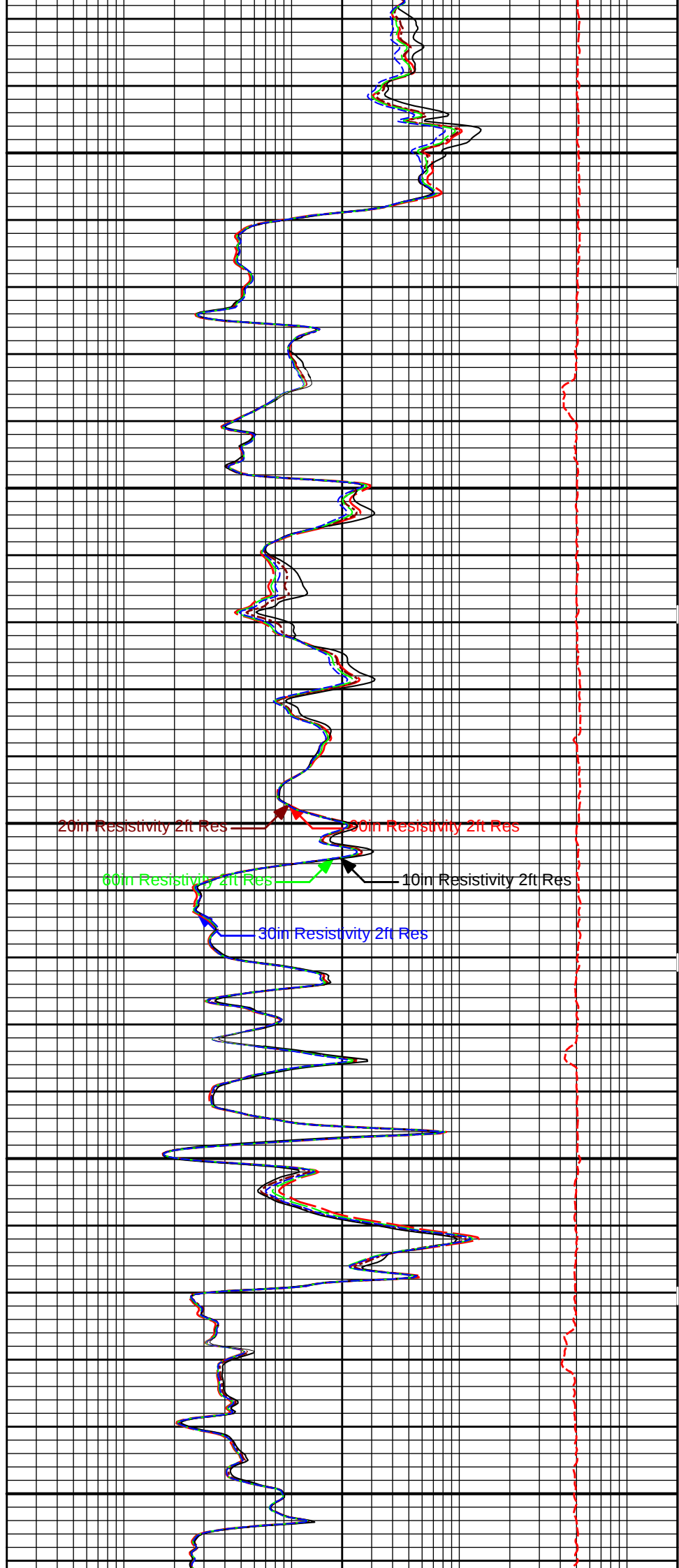
MEASURED DEPTH
MAIN SECTION 5" PER 100'

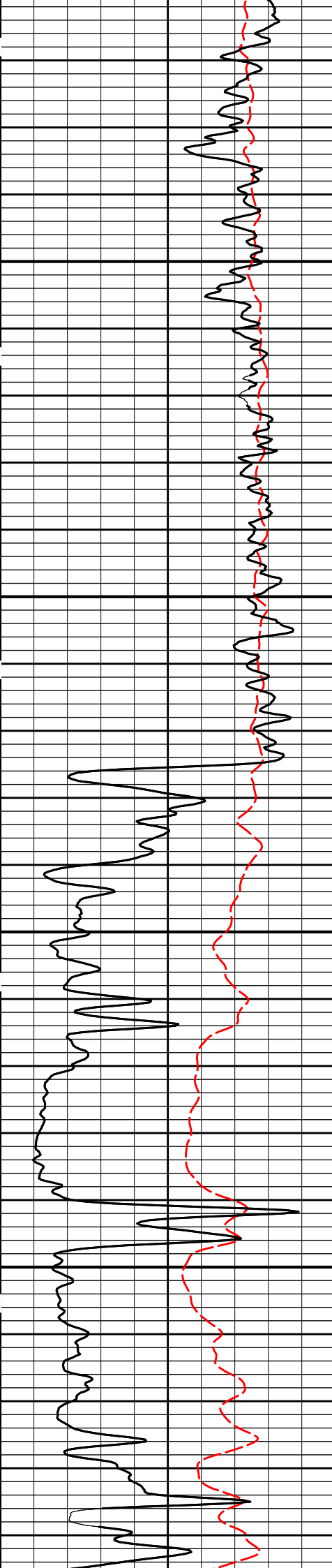




4100

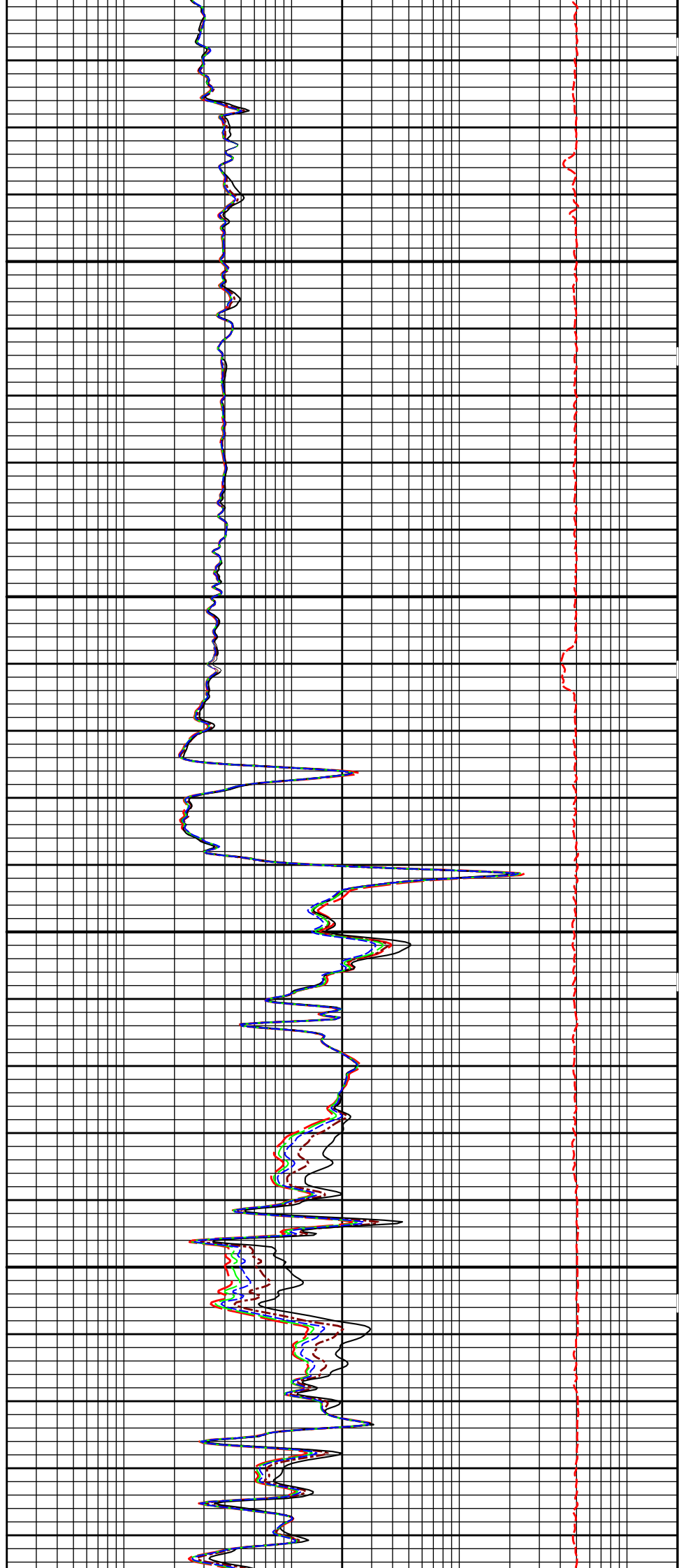
4200

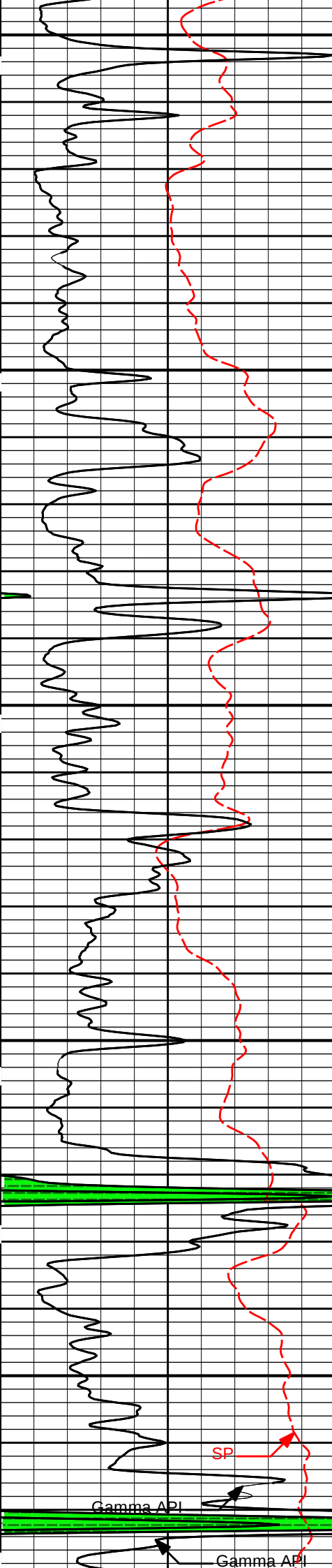




4300

4400

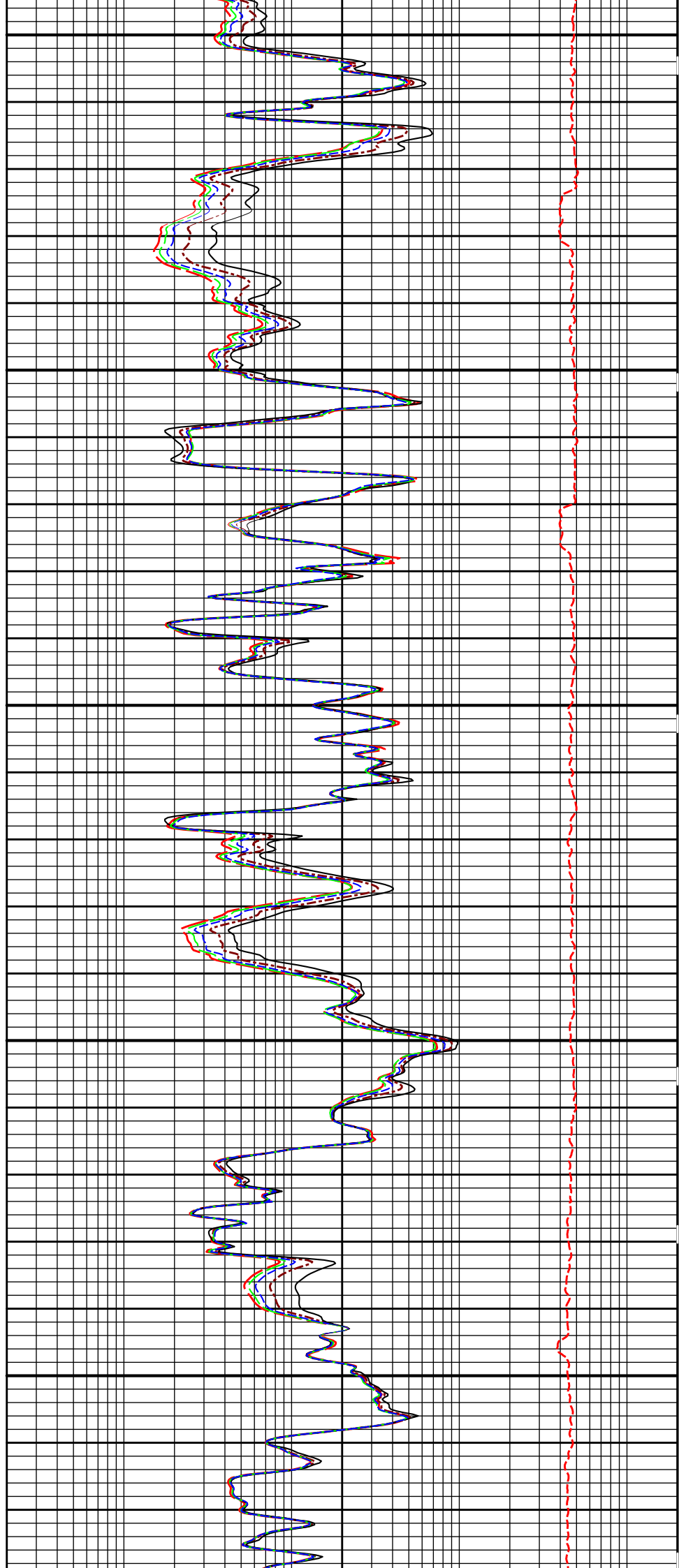


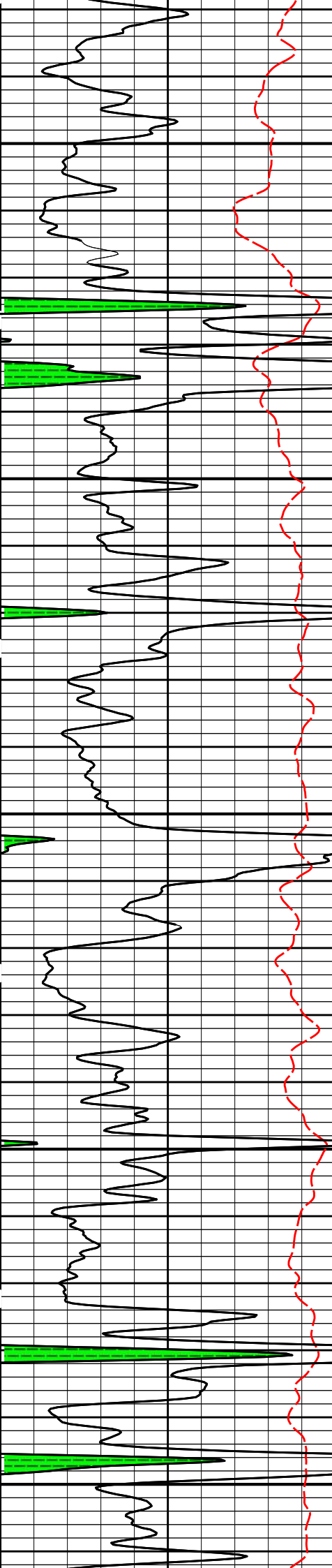


4500

4600

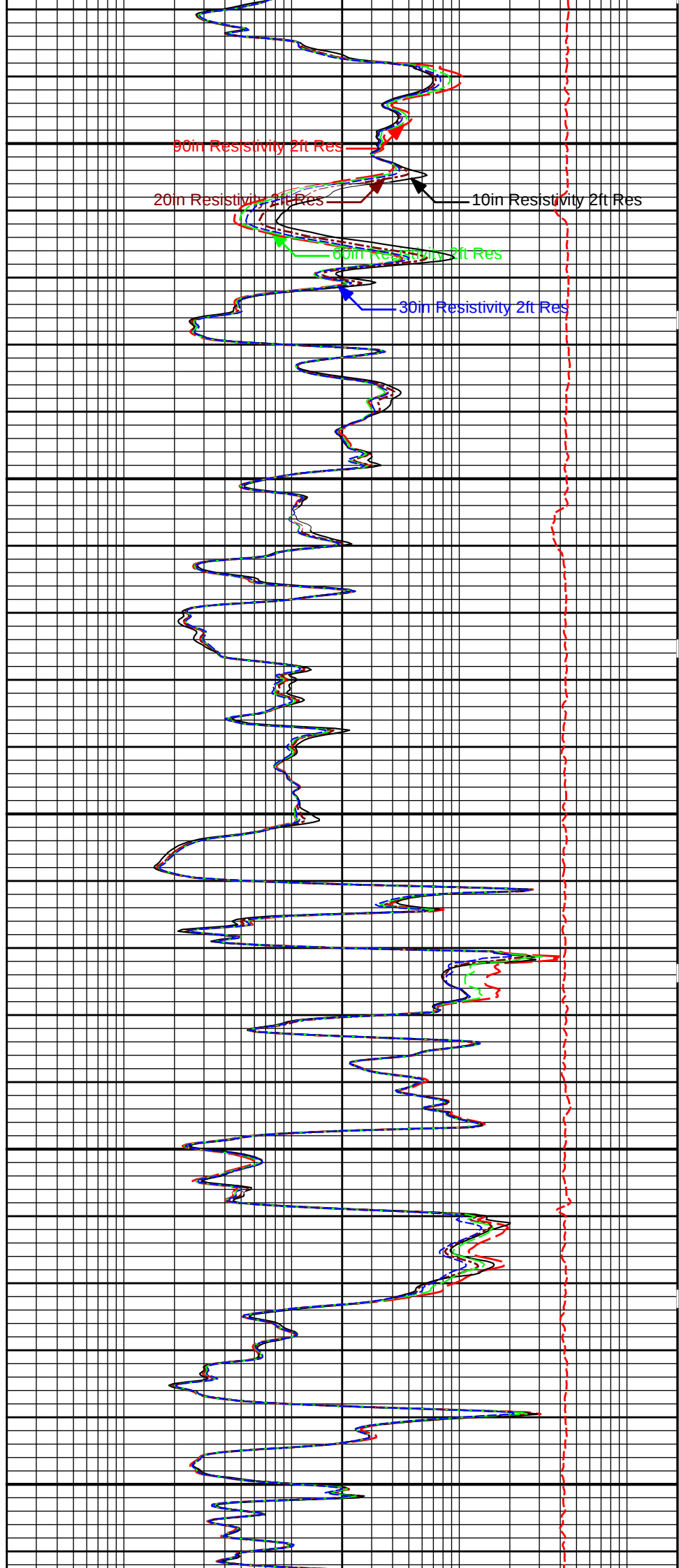
4700





4800

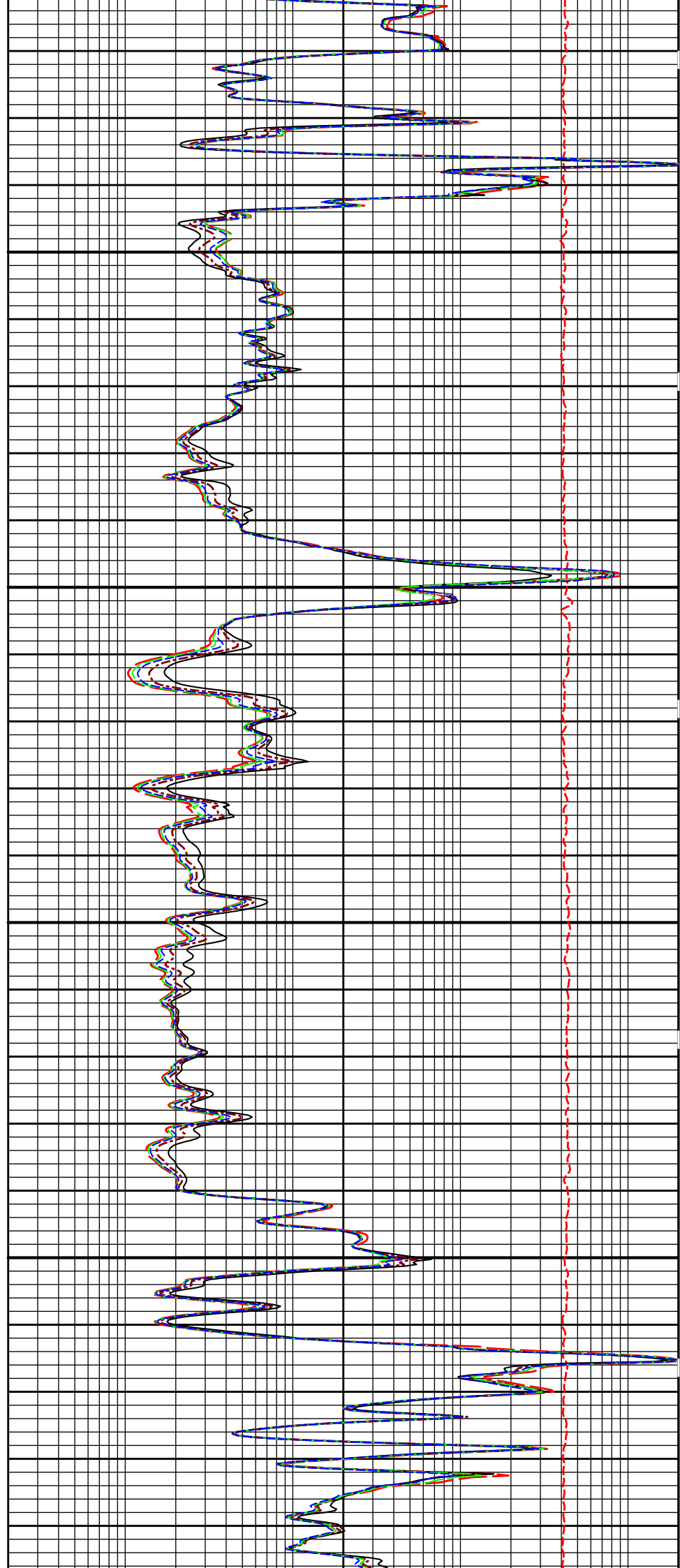
4900

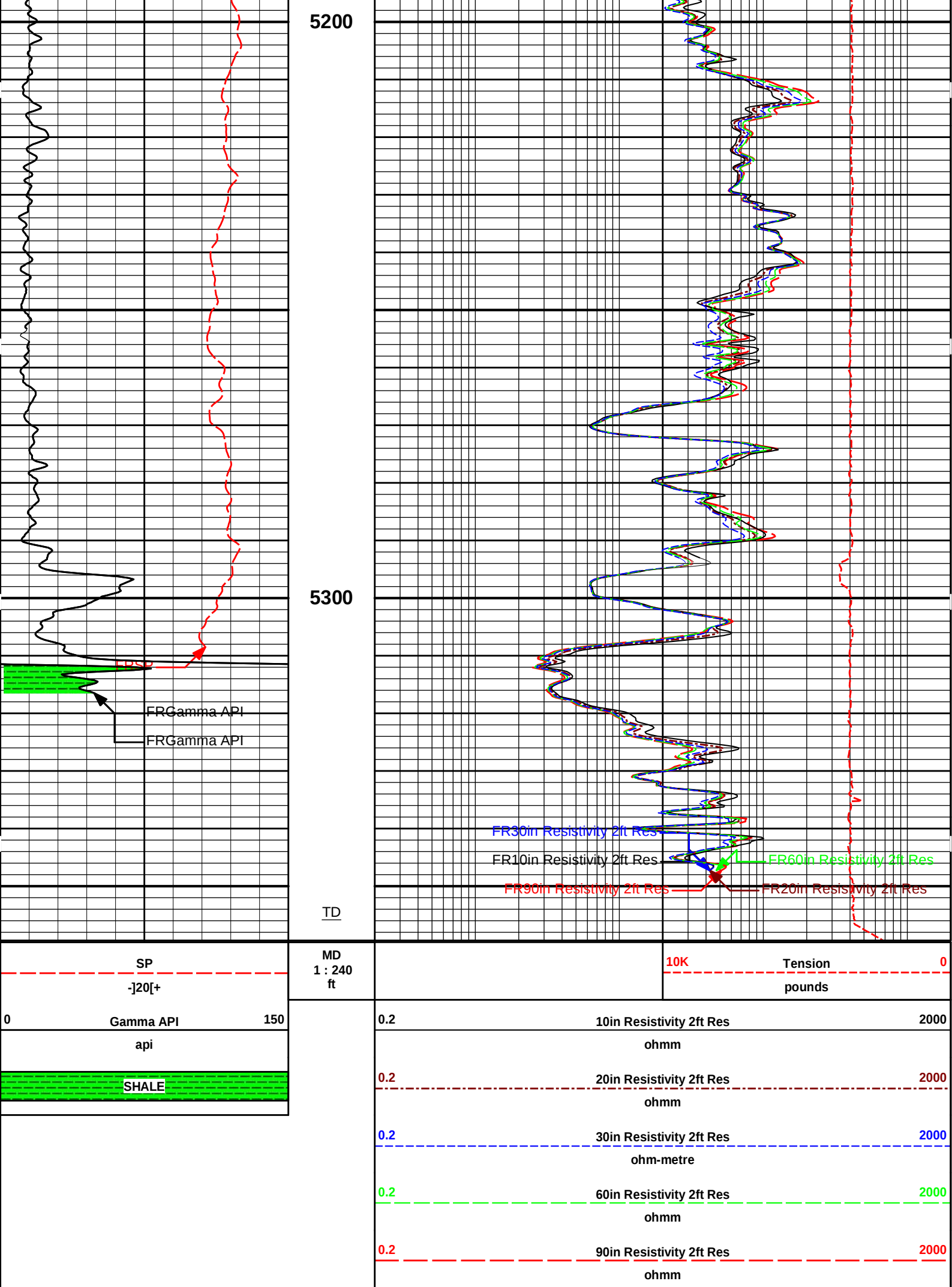




5000

5100





HALLIBURTON

Plot Time: 15-Apr-16 04:44:59
Plot Range: 3898 ft to 5359.42 ft
Data: KOGAR_3\Well Based\DETAILS\

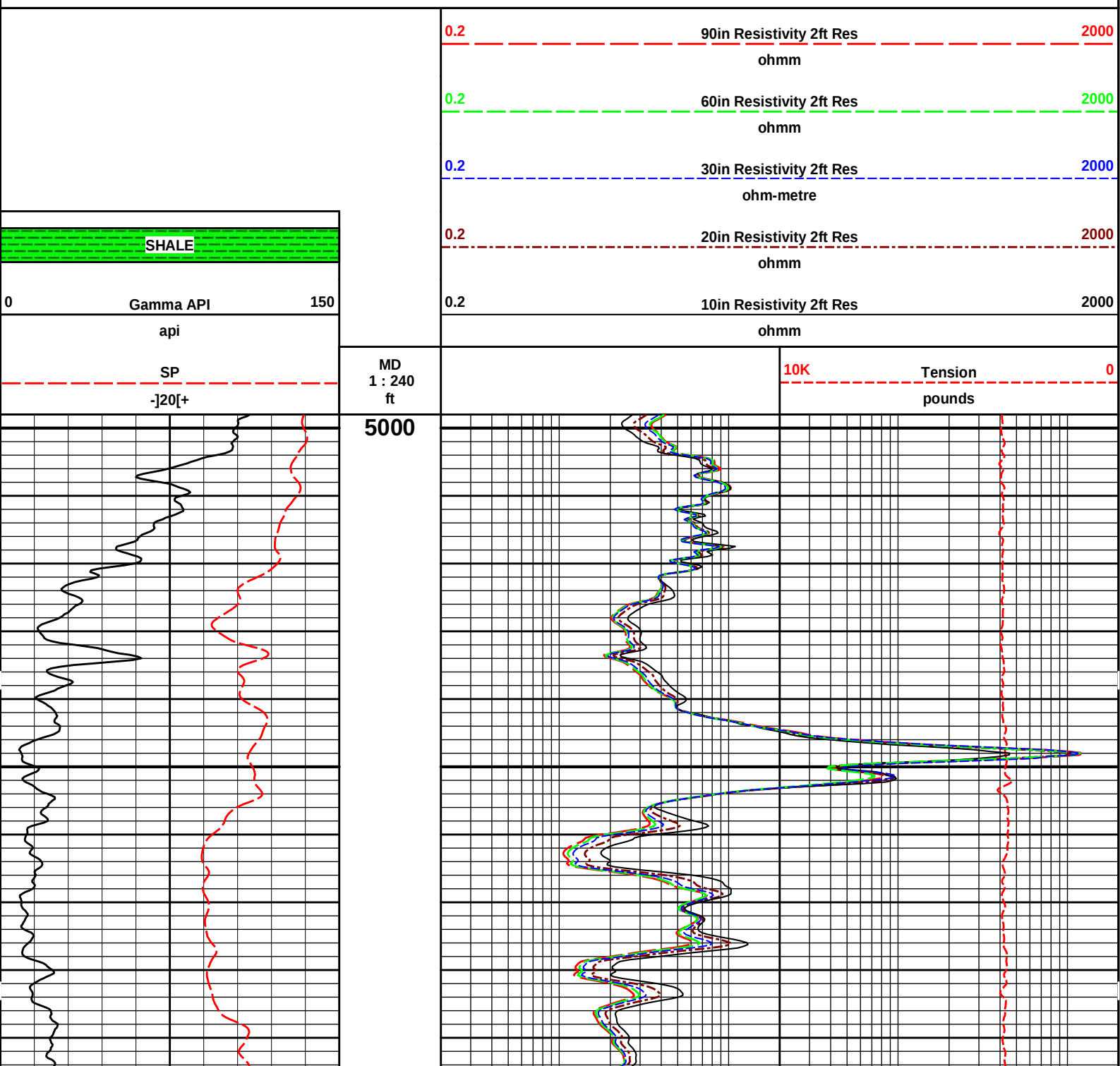
5 INCH MAIN LOG

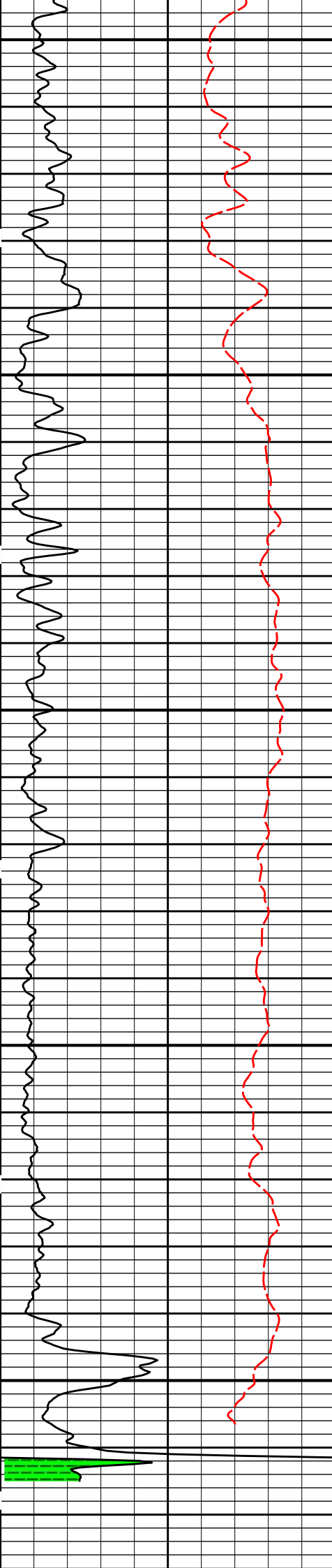
MEASURED DEPTH
MAIN SECTION 5" PER 100'

HALLIBURTON

Plot Time: 15-Apr-16 04:44:59
Plot Range: 4998 ft to 5357.67 ft
Data: KOGER_3\Well Based\REPEAT\
Plot File: \\-LOCAL-KOGER_3\Well Based\ACRT\ACRT_5_repeat_lib

REPEAT SECTION

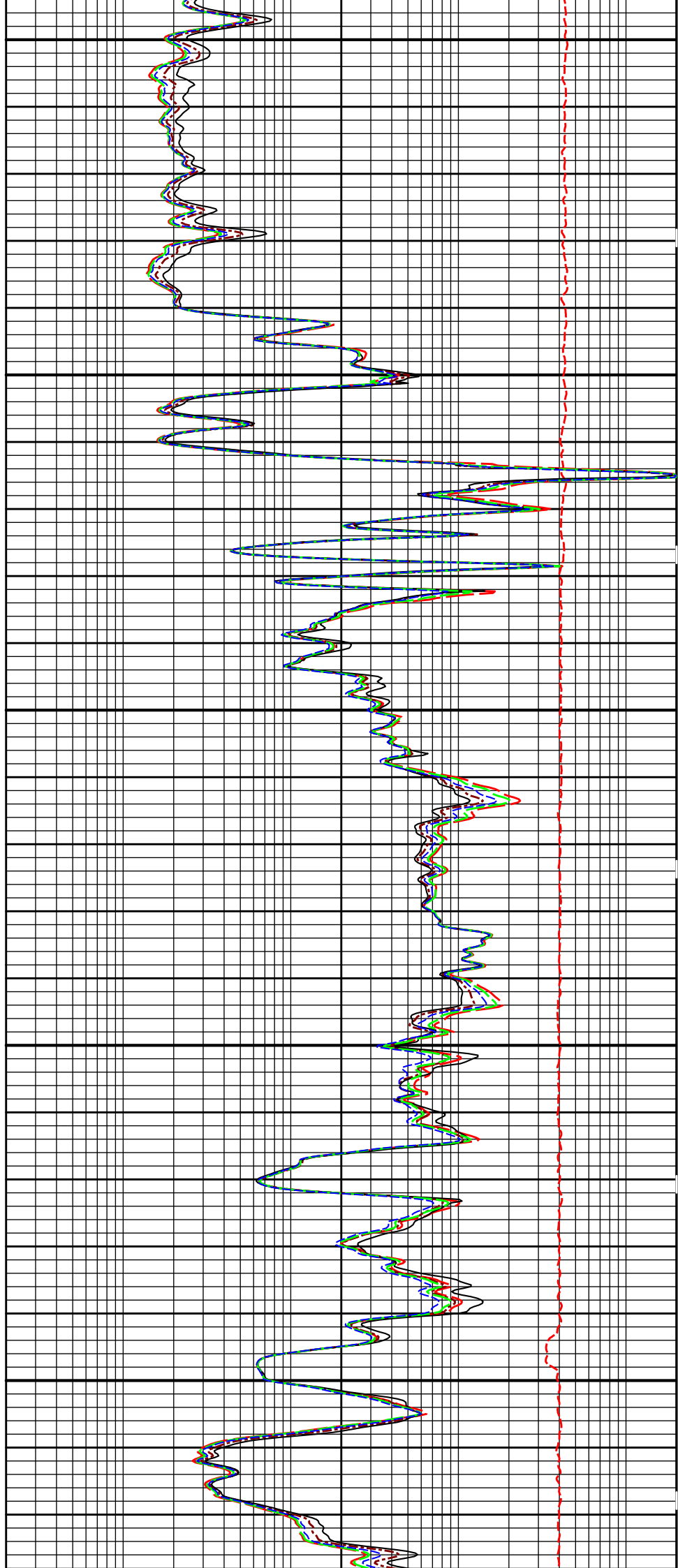


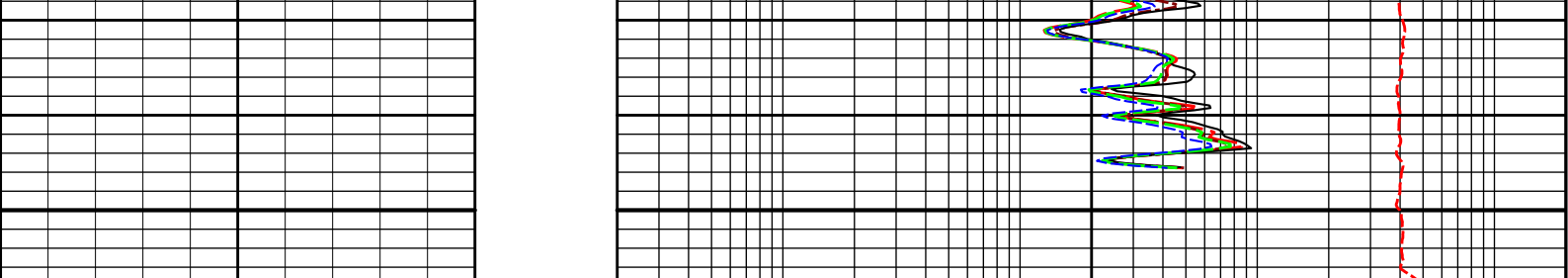


5100

5200

5300





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

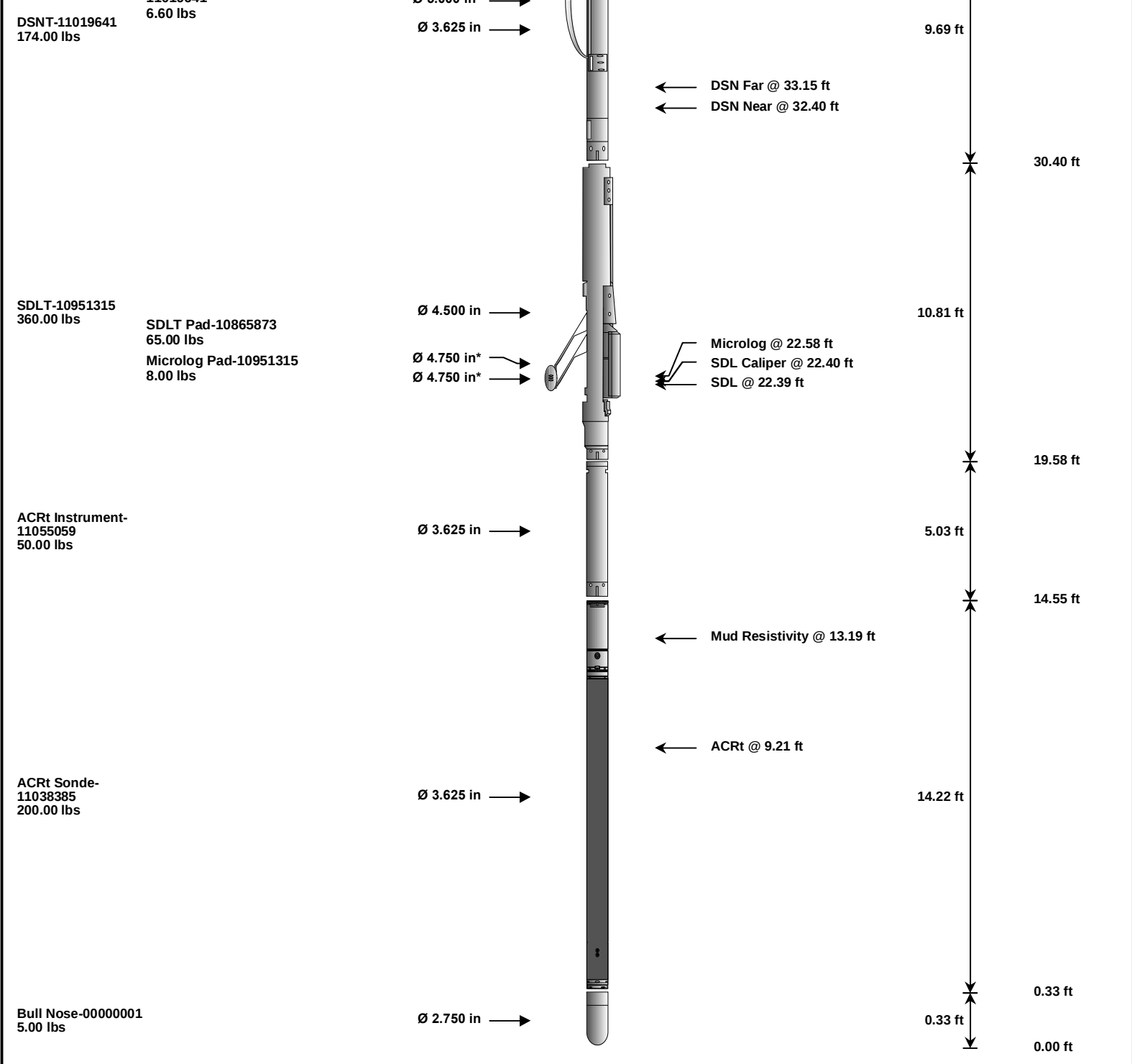
Plot Time: 15-Apr-16 04:45:00
Plot Range: 4998 ft to 5357.67 ft
Data: KOGER_3\Well Based\REPEAT\
Plot File: \\LOCAL-KOGER_3\Well Based\ACRT\ACRT_5_repeat_lib

REPEAT SECTION

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
CH_HOS_I 37.50 lbs		Ø 2.750 in →		← Temperature @ 55.29 ft	3.50 ft	56.79 ft
XOHD-12345678 20.00 lbs		Ø 2.750 in → Ø 3.625 in →			0.95 ft	53.29 ft
SP Sub-10904995 60.00 lbs		Ø 3.625 in →		← SP @ 50.56 ft	3.74 ft	52.34 ft
						48.60 ft
GTET-11021139 165.00 lbs		Ø 3.625 in →		← GammaRay @ 42.54 ft	8.52 ft	
						40.08 ft
DSN Decentralizer- 11019641		Ø 5.000 in* →				



Mnemonic		Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
CH_HOS	Hostile Cable Head with Load Cell	CH_HOS_I	37.50	3.50	53.29	300.00	
XOHD	Hostile to Dits Cross Over	12345678	20.00	0.95	52.34	300.00	
SP	SP Sub	10904995	60.00	3.74	48.60	300.00	
GTET	Gamma Telemetry Tool	11021139	165.00	8.52	40.08	60.00	
DSNT	Dual Spaced Neutron	11019641	174.00	9.69	30.40	60.00	
DCNT	DSN Decentralizer	11019641	6.60	5.13	*	33.73	300.00
SDLT	Spectral Density Tool	10951315	360.00	10.81	19.58	60.00	
SDLP	Density Insite Pad	10865873	65.00	2.55	*	21.79	60.00
MICP	Microlog Pad	10951315	8.00	1.00	*	22.08	60.00
ACRt	Array Compensated True Resistivity Instrument Section	11055059	50.00	5.03	14.55	120.00	
ACRt	Array Compensated True Resistivity Sonde Section	11038385	200.00	14.22	0.33	120.00	
BLNS	Bull Nose	00000001	5.00	0.33	0.00	300.00	
Total			1,151.10	56.79			
* Not included in Total Length and Length Accumulation.							
Data: KOGER_310001 RED_TRIPLEIDLE							
Date: 15-Apr-16 01:57:07							

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	5357.00	ft
	SHARED	BHT	Bottom Hole Temperature	125.0	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?	No	
	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?	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	
	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?	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
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 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	SDLT	
ACRt Sonde	MBFL	Apply Corkscrew Effect?	No	
BOTTOM				
Data: KOGER_3\0001 RED_TRIPLE\IDLE				
Date: 15-Apr-16 01:59:06				



CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:	GTET - 11021139	Reference Calibration Date:	26-Feb-16 09:56:46
Engineer:	WHITLOCK	Calibration Date:	10-Apr-16 15:48:49
Software Version:	WL INSITE R4.6.3 (Build 5)	Calibration Version:	1

Calibrator Source S/N: TB 79
Calibrator API Reference:222.00 api
Equivalent Calibrator API Reference:225.9 api

Measurement	Measured	Calibrated	Units
Background	23.0	23.1	api
Background + Calibrator	248.2	249.0	api
Calibrator	225.2	225.9	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name:	GTET - 11021139	Reference Calibration Date:	10-Apr-16 15:48:49
Engineer:	WHITLOCK	Calibration Date:	10-Apr-16 15:54:51
Software Version:	WL INSITE R4.6.3 (Build 5)	Calibration Version:	1

Calibrator Source S/N: TB 79
Calibrator API Reference:222.00 api
Equivalent Calibrator API Reference:225.9 api

Field Verification	Shop	Field	Units
Background	23.1	23.3	api
Background + Calibrator	249.0	248.9	api
Calibrator	225.9	225.6	api

Shop	Field	Difference	Tolerance
225.9	225.6	0.3	+/- 9.00

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION

Tool Name:	ACRt Sonde - 11038385	Reference Calibration Date:	14-Sep-15 09:09:02
Engineer:	JORGE ORLANDO PEREZ	Calibration Date:	26-Feb-16 10:05:33
Software Version:	WL INSITE R4.6.0 (Build 4)	Calibration Version:	1
Host Tool Name:	ACRt Instrument - 11055059		

TYPICAL GAIN RANGE

Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.0064	1.05	0.95	1.0111	1.05	0.95	1.0242	1.05
A2 (50")	0.95	1.0082	1.05	0.95	1.0125	1.05	0.95	1.0202	1.05
A3 (29")	0.95	1.0140	1.05	0.95	1.0173	1.05	0.95	1.0207	1.05
A4 (17")	0.95	1.0033	1.05	0.95	1.0042	1.05	0.95	1.0087	1.05
A5 (10")	N/A	N/A	N/A	0.95	1.0051	1.05	0.95	1.0087	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9868	1.05	0.95	0.9905	1.05

SONDE OFFSET									
Subarray	R12KHz			R36KHz			R72KHz		
	(mmho/m)			(mmho/m)			(mmho/m)		
A1 (80")	-1.138			-4.394			-4.225		
A2 (50")	-1.269			-3.123			-3.680		
A3 (29")	-12.811			-3.259			-2.357		
A4 (17")	-101.826			-29.487			-22.428		
A5 (10")	N/A			-77.638			-37.572		
A6 (6")	N/A			336.130			167.110		

TRANSMITTER CURRENT GAIN				R-MUD VERIFICATION			
Signal	Lower	R	Upper	Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
12K	0.6	0.86	1.3	Mud Cell	0.95	1.00	1.05
36K	1.0	1.34	2.0				
72K	1.0	1.62	2.0				
PASS/FAIL SUMMARY							
GAIN RANGE CHK				PASS			
SONDE OFFSET CHK				PASS			
TOOL OK TO LOG							

DOWNHOLE POSITION		0.00	BLK	0.000
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
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: KOGER_3I0001 RED_TRIPLE\IDLE		Date: 15-Apr-16 02:15:10	
COMPANY	HERMAN L. LOEB, LLC		
WELL	KOGER #3		
FIELD	ALFORD		
COUNTY	KIOWA	STATE	KANSAS
HALLIBURTON		ARRAY COMPENSATED TRUE RESISTIVITY LOG	