

HALLIBURTON

ARRAY COMPENSATED
TRUE RESISTIVITY
LOG
2 INCH

MERIT ENERGY COMPANY					COMPANY					MERIT ENERGY COMPANY				
BATMAN B4					WELL					BATMAN B4				
SANTA FE NORTH					FIELD/BLOCK					SANTA FE NORTH				
HASKELL					COUNTY					HASKELL				
KANSAS					COUNTY					STATE KANSAS				
COMPANY					API No. 15081221710000					Other Services: DSNT/SDLT MICROLOG BSAT ACRT				
WELL					Location (SHL) 1193' FNL & 752' FEL SE SW NE NE									
FIELD/BLOCK														
COUNTY					HASKELL									
STATE					KANSAS									
Permanent Datum					GL					Elev. 2978.6 ft				
Log measured from					KB					D.F. 2991.6 ft				
Drilling measured from					KB					G.L. 2978.6 ft				
Date					25-Feb-18									
Run No.					ONE									
Depth - Driller					5655.0 ft									
Depth - Logger					5662.0 ft									
Bottom - Logged Interval					5653.00 ft									
Top - Logged Interval					1827.00 ft									
Casing - Driller					8.625 in @ 1826.0 ft					@				
Casing - Logger					1827.0 ft									
Bit Size					7.875 in					@				
Type Fluid in Hole					Water Based Mud									
Density					9.1 ppg					56.00 s/qt				
Viscosity					11.00 pH					6.4 cpm				
Fluid Loss					FLOWLINE									
Source of Sample														
Rm @ Meas. Temperature					1.67 ohmm @ 75.00 degF					@				
Rmf @ Meas. Temperature					1.51 ohmm @ 75.00 degF					@				
Rmc @ Meas. Temperature					1.82 ohmm @ 75.00 degF					@				
Source Rmf					MEAS									
Rm @ BHT					0.96 ohmm @ 135.0 degF					@				
Time Since Circulation					5.0 hr									
Time on Bottom					25-Feb-18 20:45									
Max. Rec. Temperature					135.00 degF @ 5662.0 ft					@				
Equipment					12147634 EL RENO									
Recorded By					JORGE ORLANDO PEREZ									
Witnessed By					MATTHEW GARVIN					AUSTIN GARNER				

Fold here

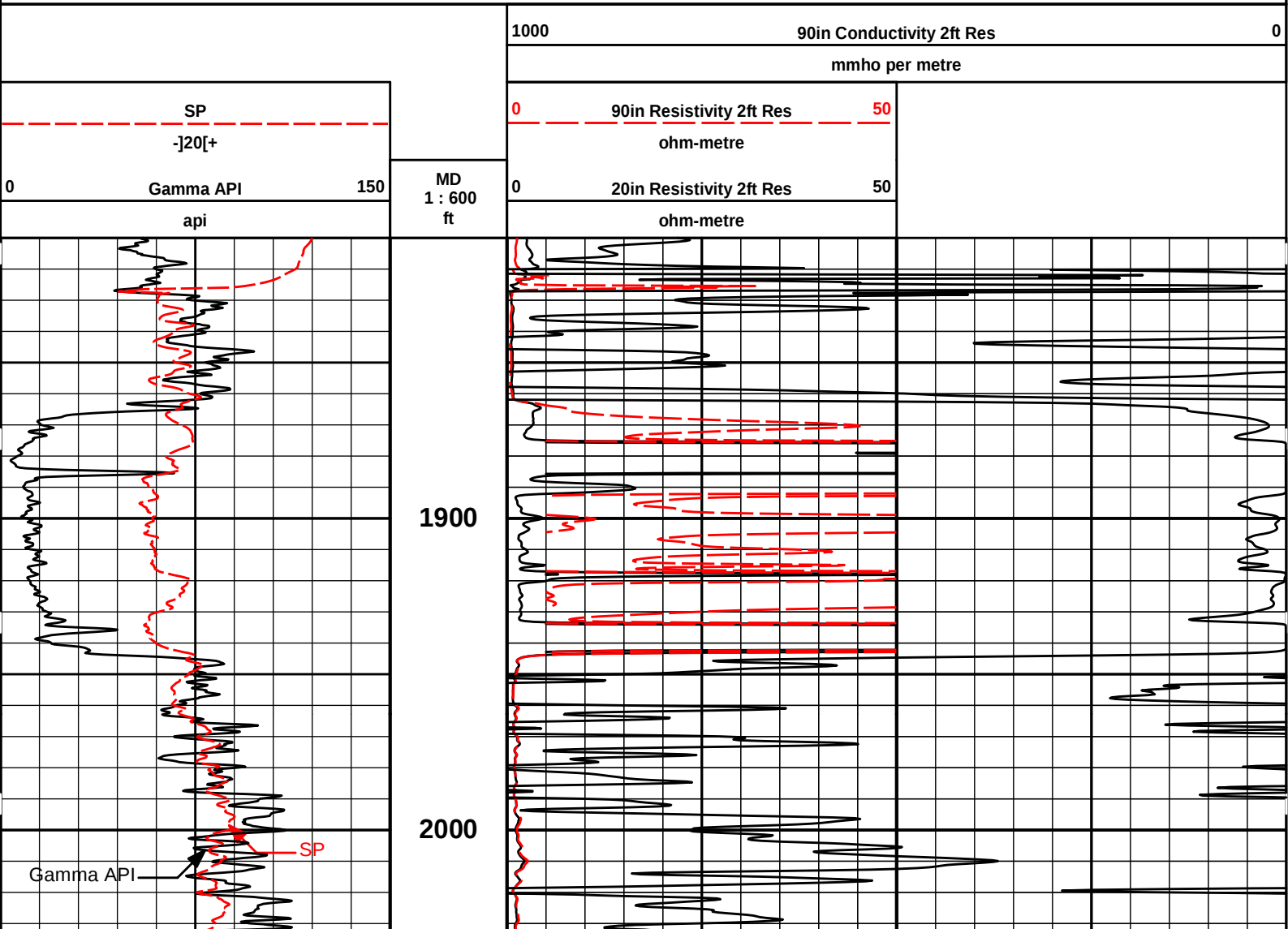
Service Ticket No.: 904653282						API No.: 15081221710000						PGM Version: WL INSITE R5.0.5 (Build 8)					
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE								RESISTIVITY SCALE CHANGES									
Date	Sample No.					Type Log	Depth	Scale Up Hole		Scale Down Hole							
Depth-Driller																	
Type Fluid 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-11026095										
Source Rmf	Rmc						S-11005908										
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.		11958947		Serial No.		10747683		Serial No.		10960494		Serial No.		11055304			
Model No.		GTET		Model No.		BSAT		Model No.		SDLT		Model No.		DSNT			
Diameter		3.625"		No. of Cent.		2		Diameter		5.5"		Diameter		3.625"			
Detector Model No.		T-102		Spacing		EVEN		Log Type		GAM-GAM		Log Type		NEU-NEUI			
Type		SCINT						Source Type		CS137		Source Type		AM241BE			
Length		8"		LSA [Y/N]				Serial No.		5168GW		Serial No.		DSN-424			
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			

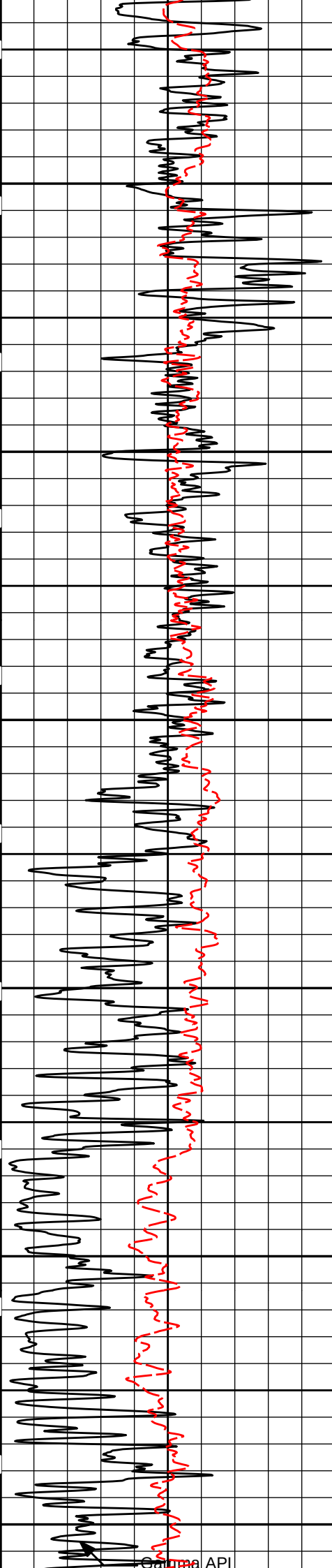
DIRECTIONAL INFORMATION														
Maximum Deviation @								KOP @						
Remarks: ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING														
CHLORIDES REPORTED AT 1100 ppm														
HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA 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														

HALLIBURTON

Plot Time: 25-Feb-18 21:58:59
Plot Range: 1810 ft to 5665.42 ft
Data: BATMAN_B4\Well Based\MAIN\
Plot File: \\LOCAL-BATMAN_B4\Well Based\ACRT2\ACRT_2_lib

2 INCH MAIN LOG





2100

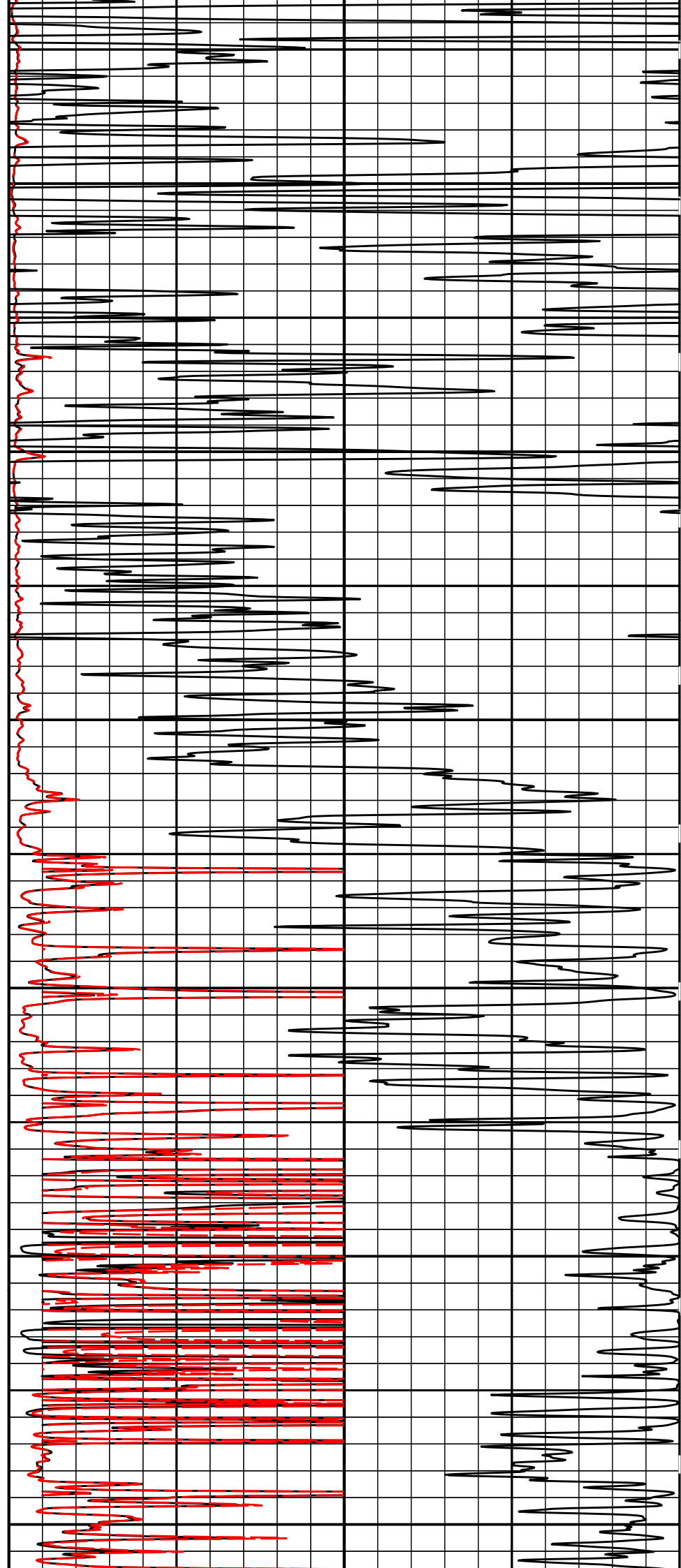
2200

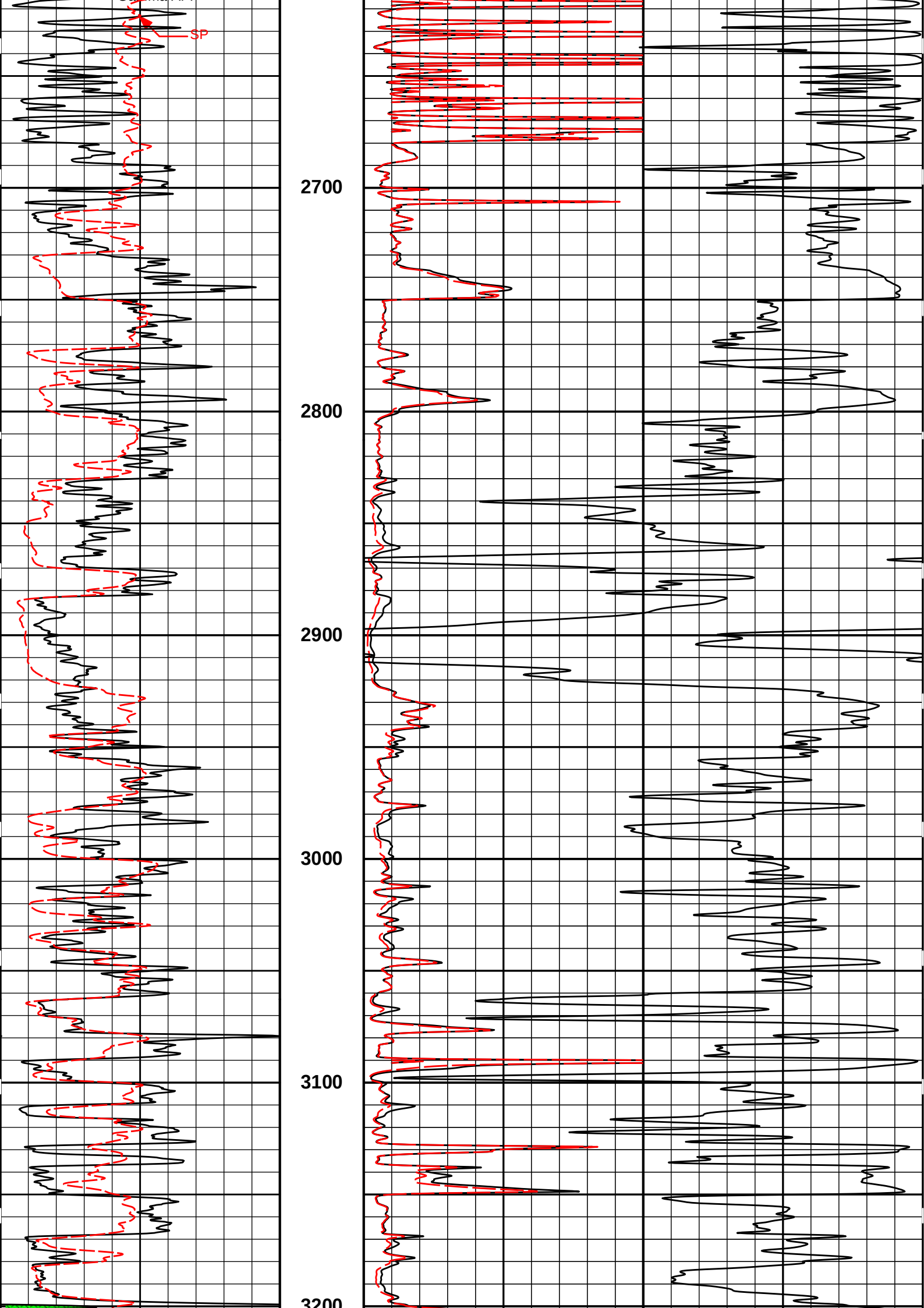
2300

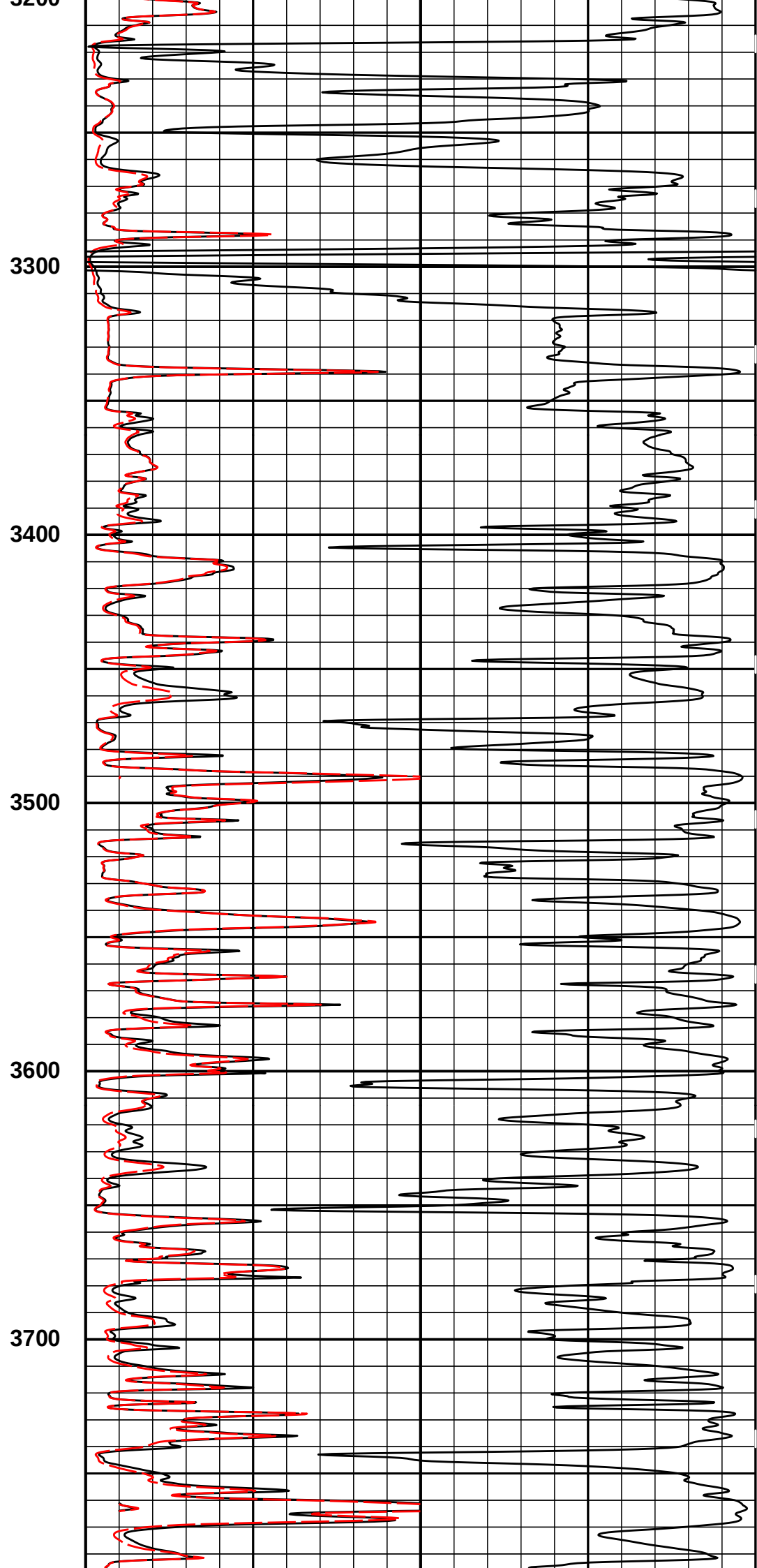
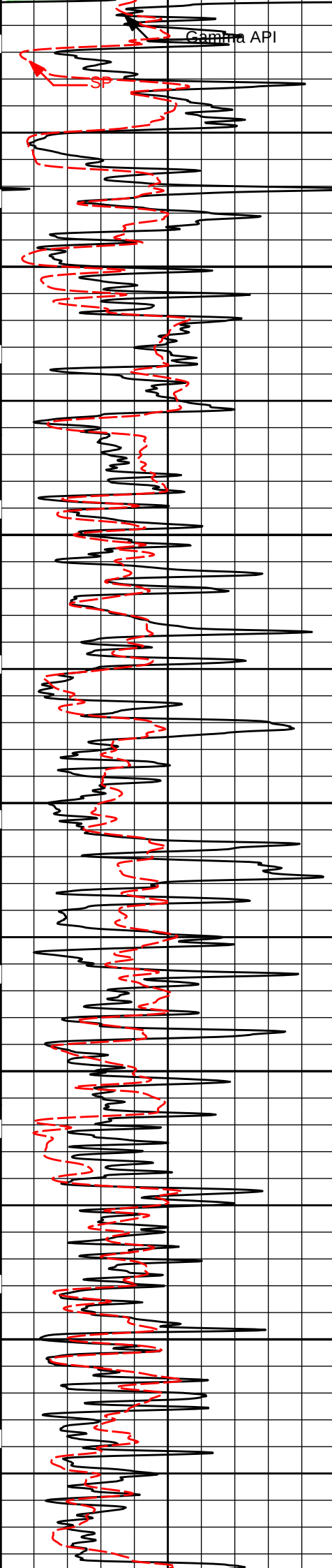
2400

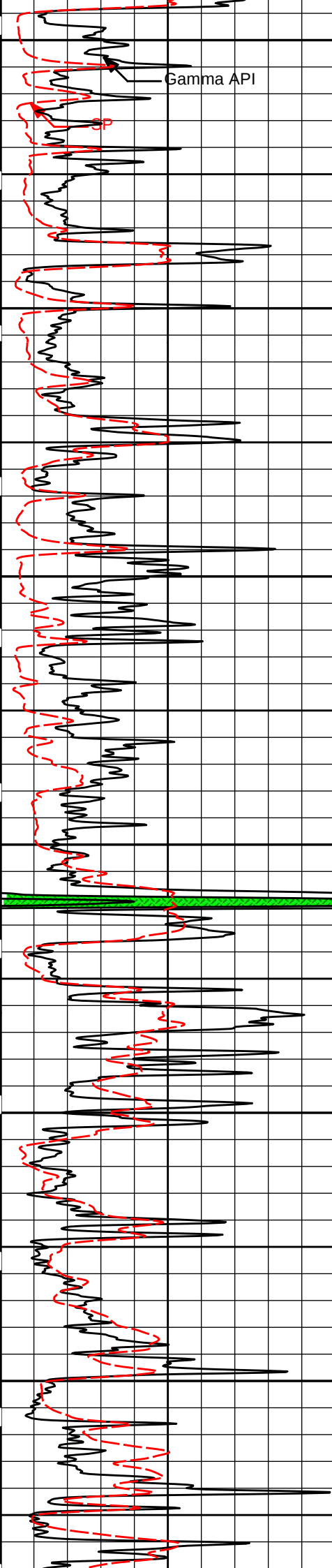
2500

2600









3800

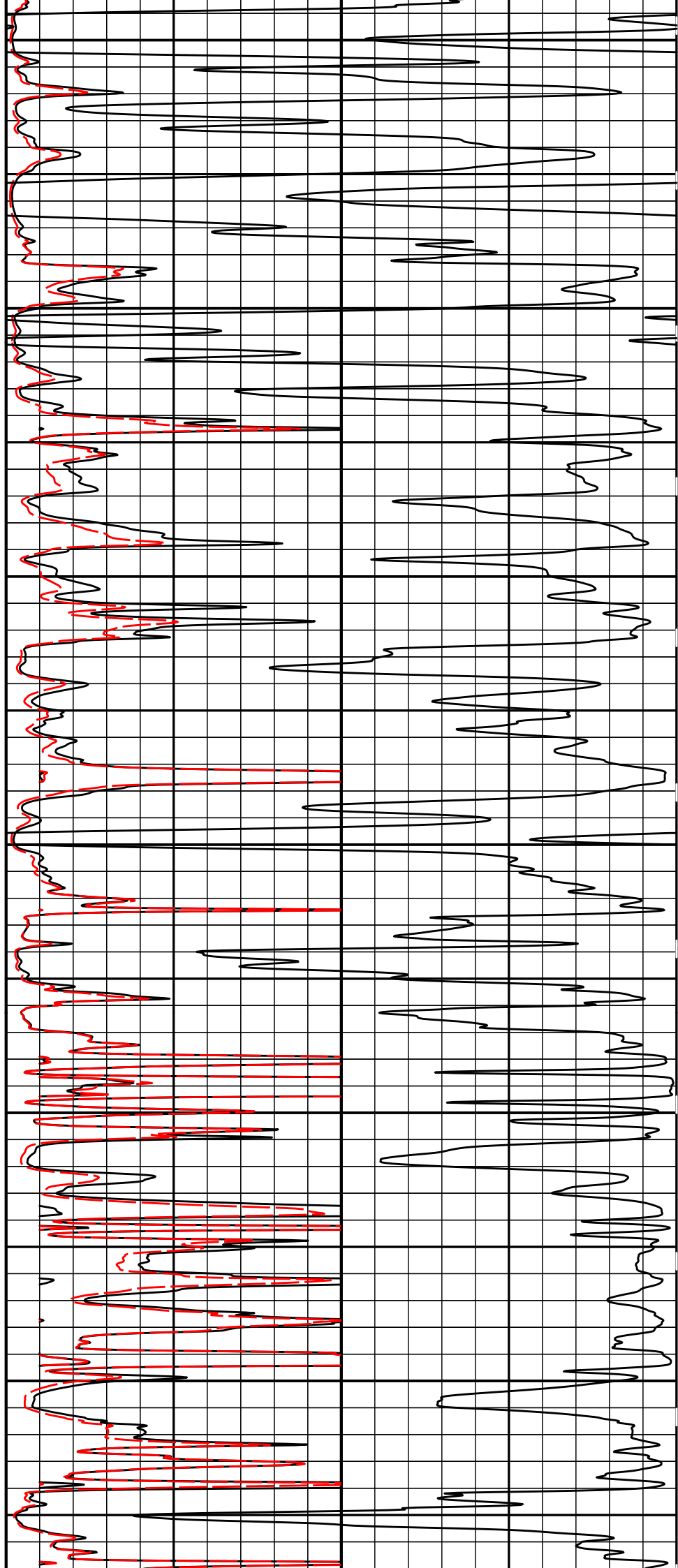
3900

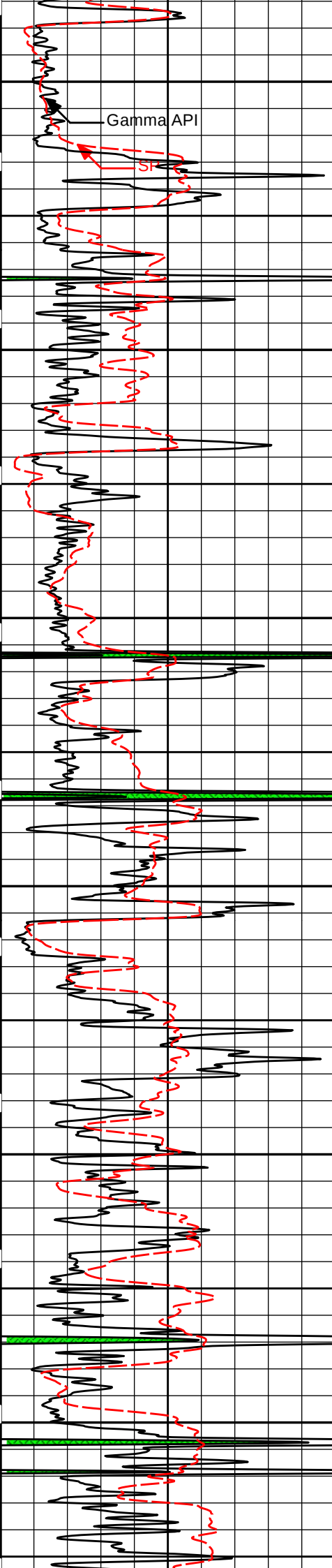
4000

4100

4200

4300





4400

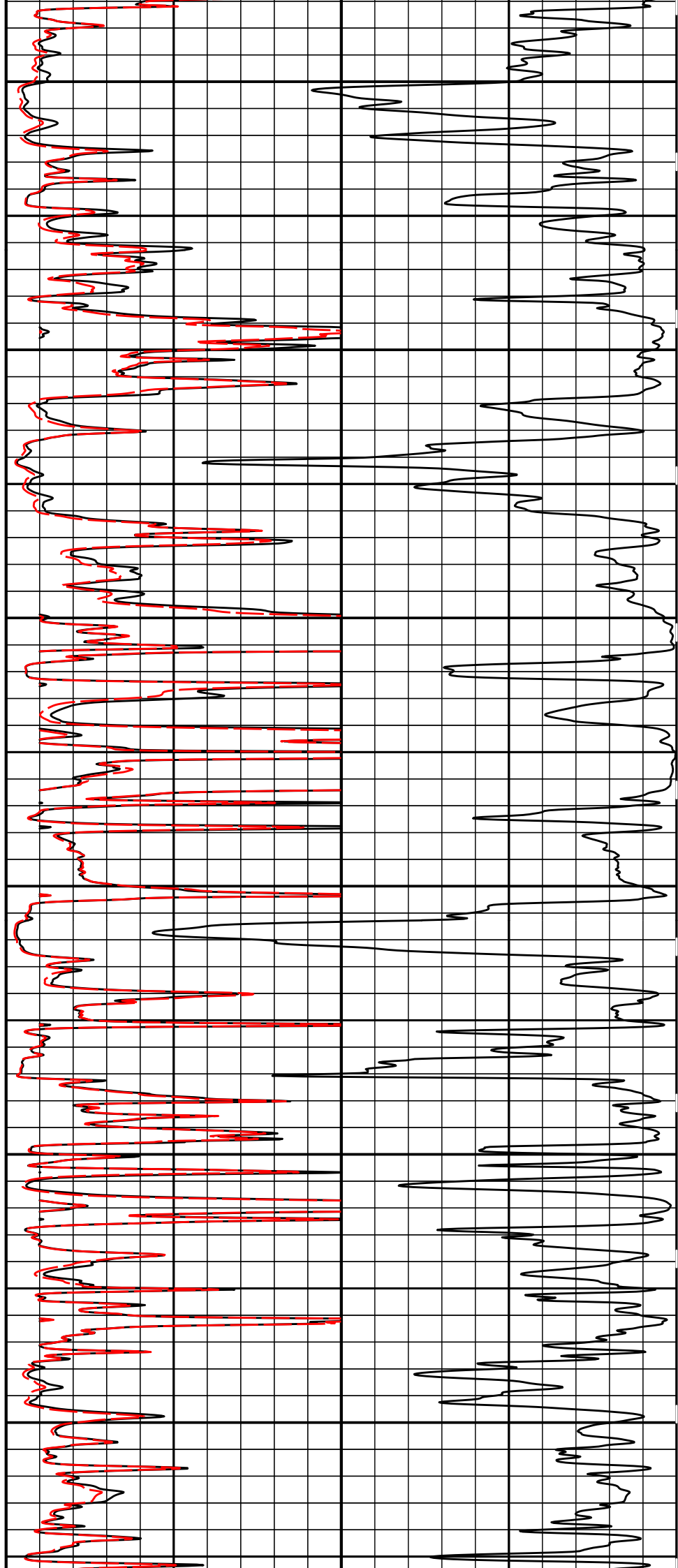
4500

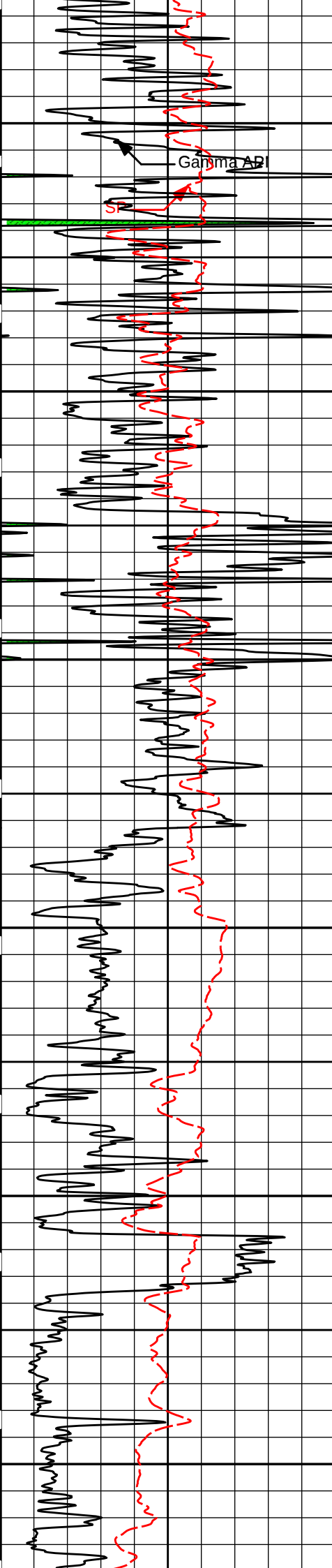
4600

4700

4800

4900





5000

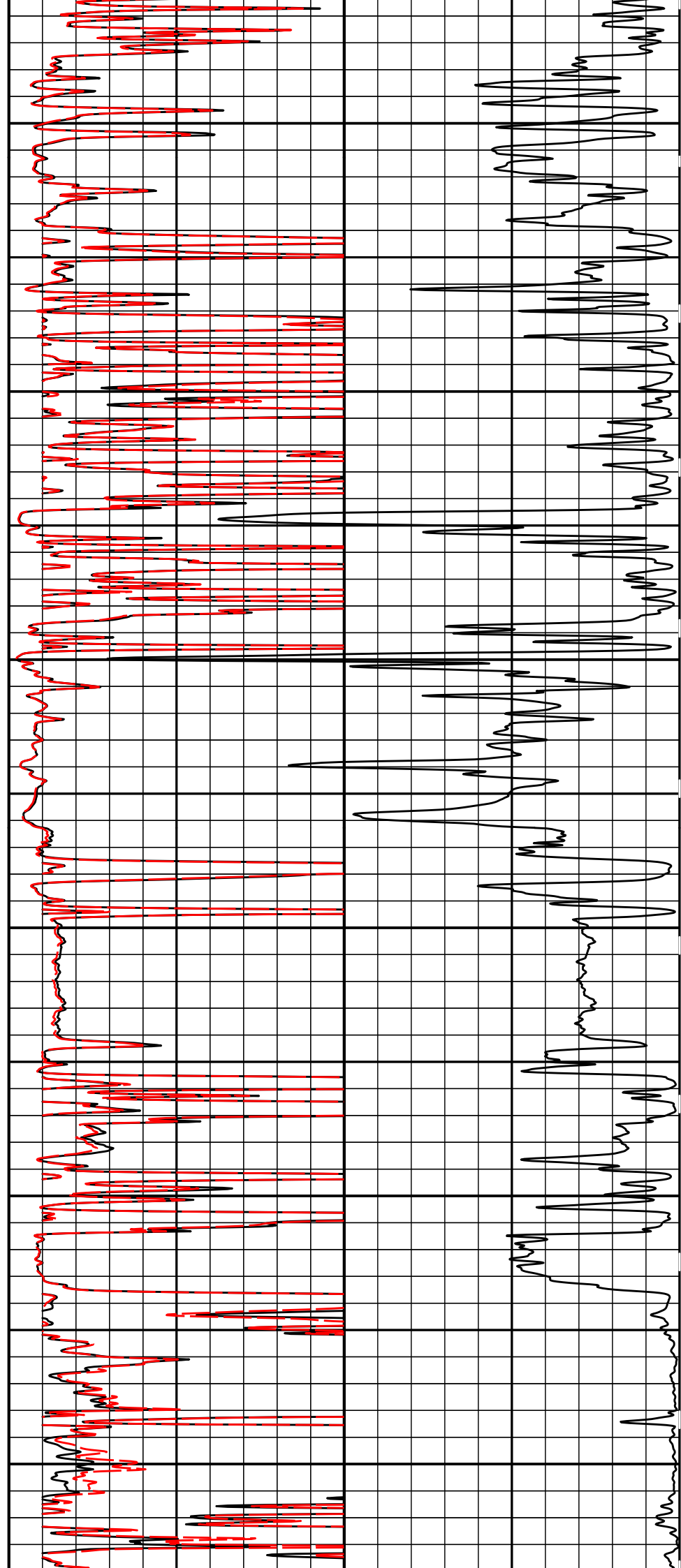
5100

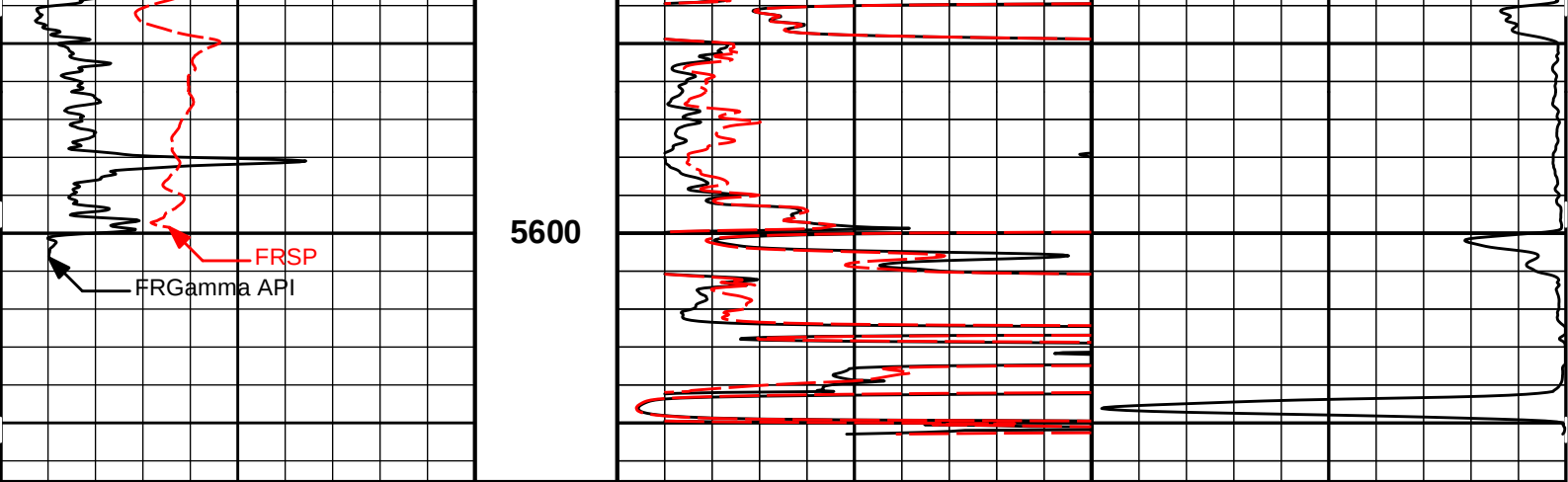
5200

5300

5400

5500





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

HALLIBURTON	Plot Time: 25-Feb-18 21:59:04 Plot Range: 1810 ft to 5665.42 ft Data: BATMAN_B4\Well Based\MAIN\ Plot File: \\-LOCAL-BATMAN_B4\Well Based\ACRT2\ACRT_2_lib
2 INCH MAIN LOG	

COMPANY	MERIT ENERGY COMPANY		
WELL	BATMAN B4		
FIELD	SANTA FE NORTH		
COUNTY	HASKELL	STATE	KANSAS
HALLIBURTON		ARRAY COMPENSATED TRUE RESISTIVITY LOG 2 INCH	