

# HALLIBURTON

## ARRAY COMPENSATED TRUE RESISTIVITY 2" LOG

COMPANY		MERIT ENERGY COMPANY LLC	
WELL		EMMA WARD 3	
FIELD/BLOCK		WILDCAT	
COUNTY		HASKELL	
STATE		KANSAS	
Permanent Datum		GL	Elev: 3038.4 ft
Log measured from		KB	D.F. 3048.4 ft
Drilling measured from		KB	G.L. 3038.4 ft
Date		17-Aug-19	
Run No.		1	
Depth - Driller		5529.0 ft	
Depth - Logger		5504.0 ft	
Bottom - Logged Interval		5494	
Top - Logged Interval		1771	
Casing - Driller		8.625 in	@ 1772.0 ft
Casing - Logger		1771.0 ft	@
Bit Size		7.875 in	@
Type Fluid in Hole		Water Based Mud	
Density		9.20 g/cc	60.00 s/qt
PH		11.00 pH	6.8 cptom
Source of Sample		FLOWLINE	
Rm @ Meas. Temperature		1.15 ohmm	@ 82.00 degF
Rmf @ Meas. Temperature		0.93 ohmm	@ 80.00 degF
Rmc @ Meas. Temperature		1.34 ohmm	@ 80.00 degF
Source Rmf		MEAS	MEAS
Rm @ BHT		0.69 ohmm	@ 142.0 degF
Time Since Circulation		05:00 hr	
Time on Bottom		17-Aug-19 09:45	
Max. Rec. Temperature		142.00 degF	@ 5503.0 ft
Equipment Location		12156883	EL RENO, OK
Recorded By		WHITLOCK	
Witnessed By		KRYSTIN ROBINSON	
COMPANY		MERIT ENERGY COMPANY LLC	
WELL		EMMA WARD 3	
FIELD/BLOCK		WILDCAT	
COUNTY		HASKELL	
STATE		KANSAS	
API No.		15081221940000	
Location		(SHL) SW SW NE NW 1585 FWL & 1122' FNL	
Sect.		35	Twp. 27S
Rge.		34W	
Other Services:		ACT SDL-DSN MICROLOG SONIC	

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Service Ticket No.: 905916210				API No.: 15081221940000				PGM Version: WL INSITE R6.2.1 (Build 2)									
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.		@		@													
Rmc @ Meas. Temp.		@		@													
Source Rmf	Rmc																
Rm @ BHT		@		@													
Rmf @ BHT		@		@													
Rmc @ BHT		@		@													
EQUIPMENT DATA																	
GAMMA				ACOUSTIC				DENSITY				NEUTRON					
Run No.				Run No.				Run No.				Run No.					
Serial No.				Serial No.				Serial No.				Serial No.					
Model No.				Model No.				Model No.				Model No.					
Diameter				No. of Cent.				Diameter				Diameter					
Detector Model No.				Spacing				Log Type				Log Type					
Type								Source Type				Source Type					
Length				LSA [Y/N]				Serial No.				Serial No.					
Distance to Source				FWDA [Y/N]				Strength				Strength					
LOGGING DATA																	
GENERAL						GAMMA			ACOUSTIC			DENSITY			NEUTRON		
Run No.	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix			
	From	To	ft/min	L	R	L	R		L	R		L	R				

DIRECTIONAL INFORMATION

Maximum Deviation @ KOP @

Remarks: 5 1/2" CASING USED FOR ANNULAR HOLE VOLUME

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.

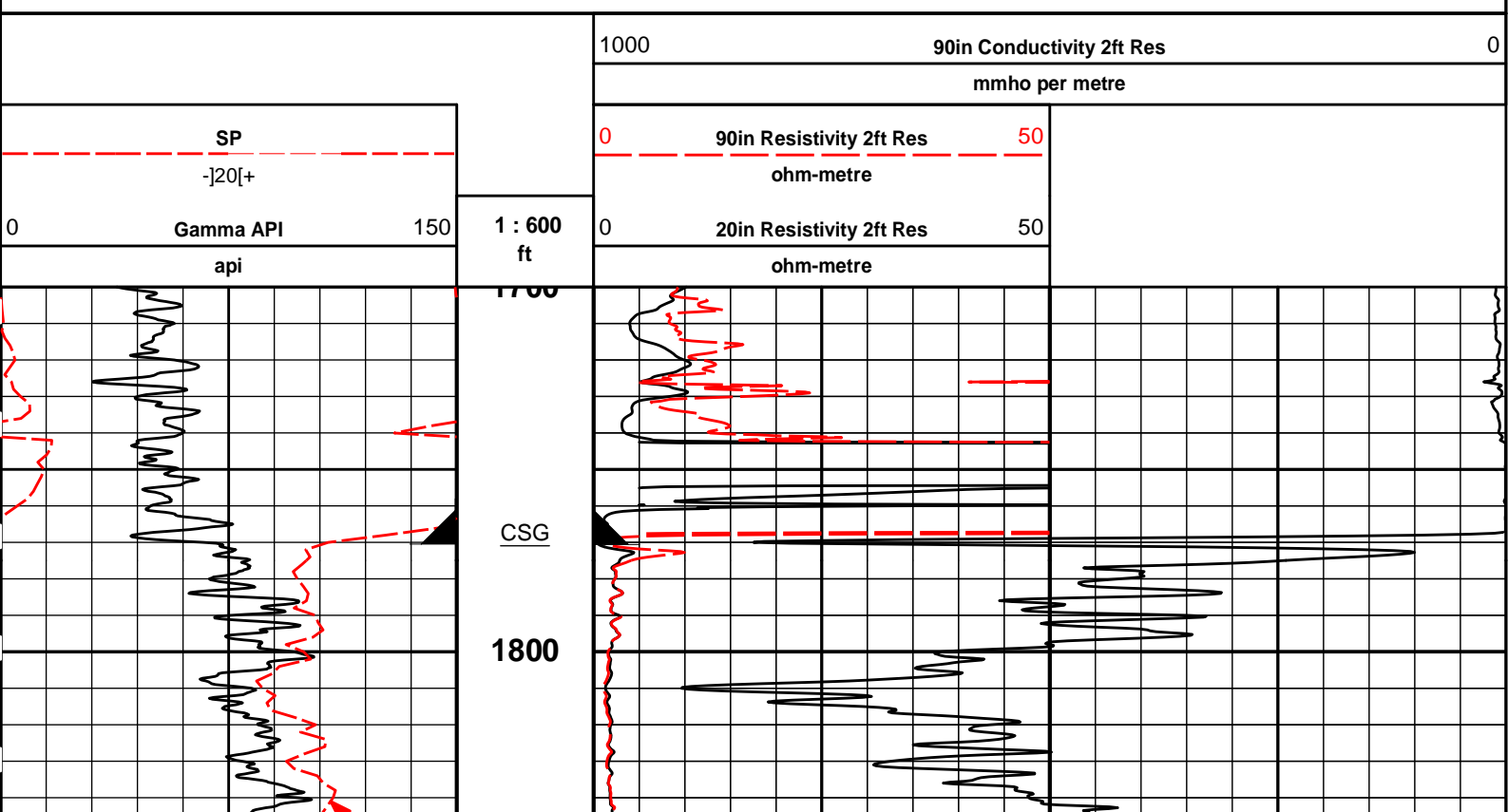
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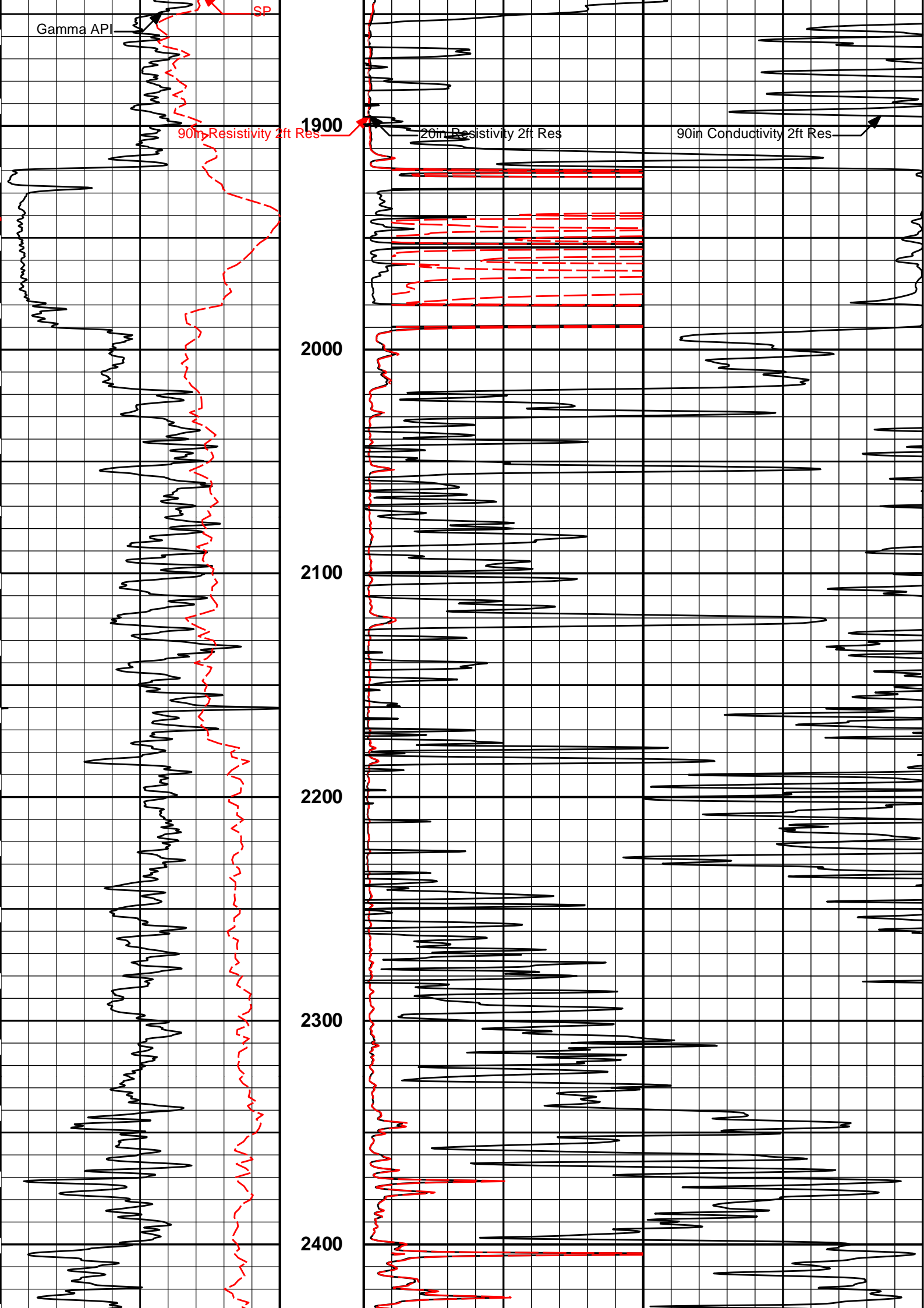


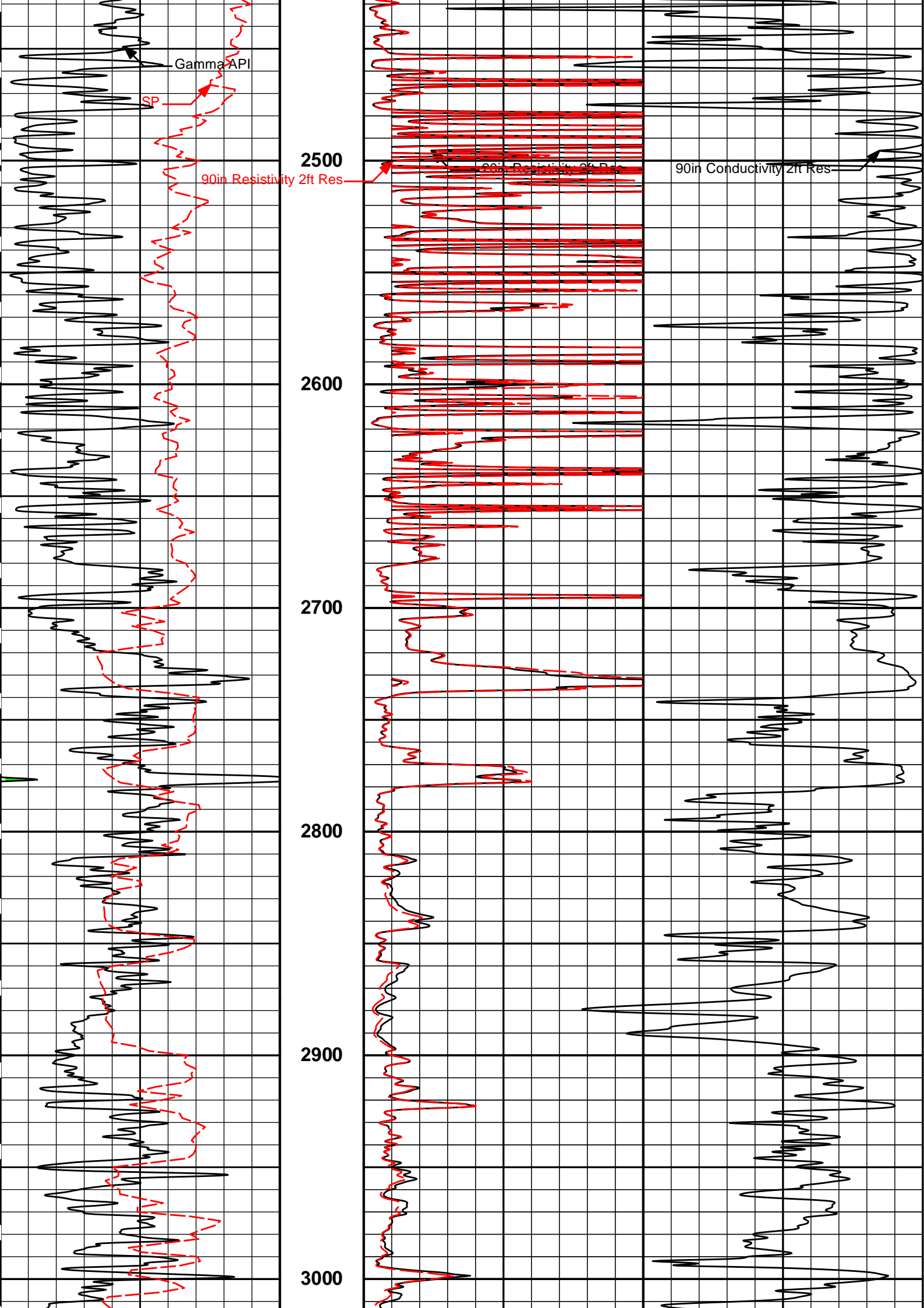
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 Plot Range: 1700 ft to 5508.58 ft  
 Data: MERIT\_EMMA\_WARD\Well Based\DAQ-0001-003\  
 Plot File: \\-LOCAL-MERIT\_EMMA\_WARD\0001 GTET-DSN-SDL-BSAT-ACRT\ACRT-2\ACRT\_2\_main

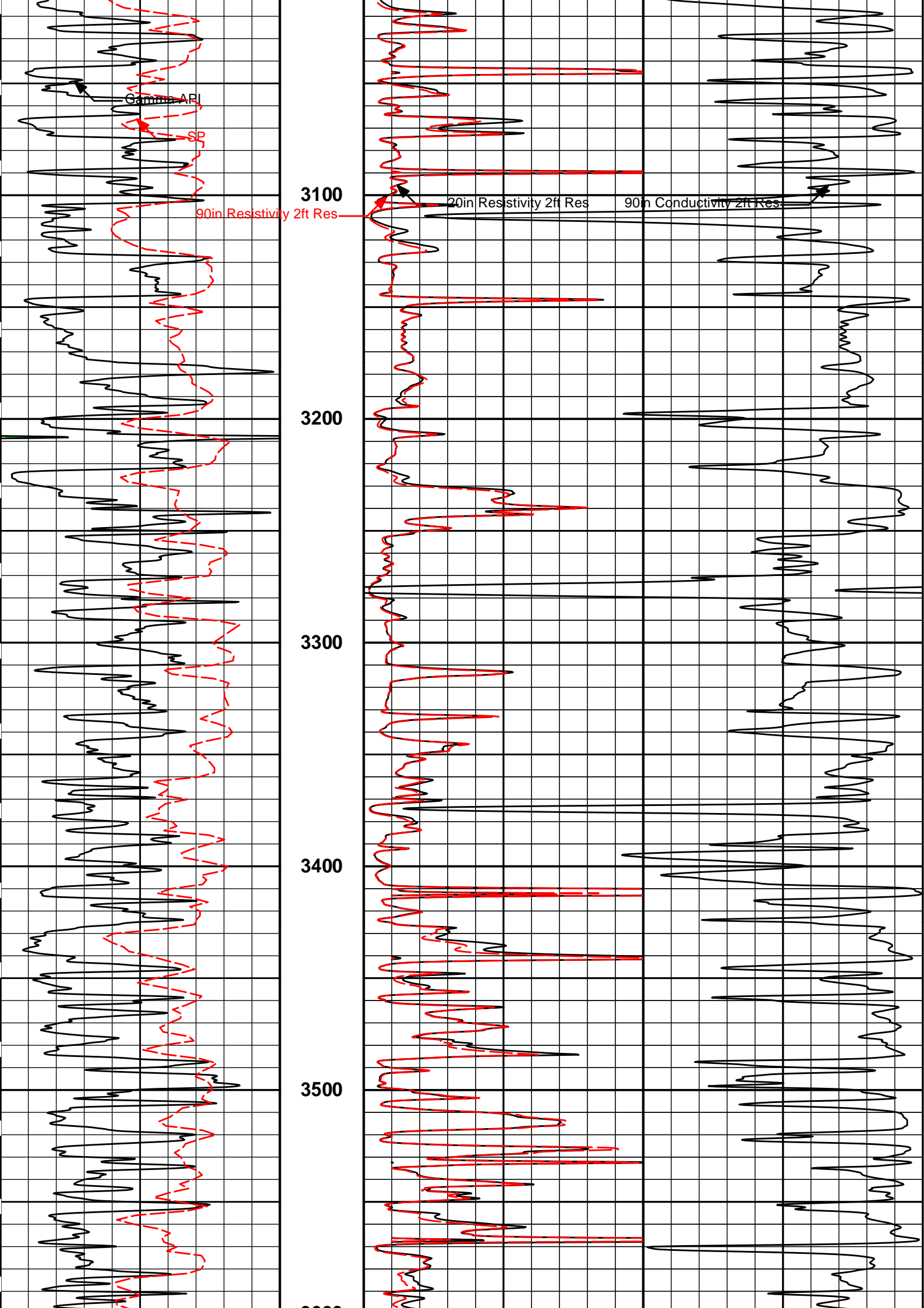
## 2 INCH MAIN LOG

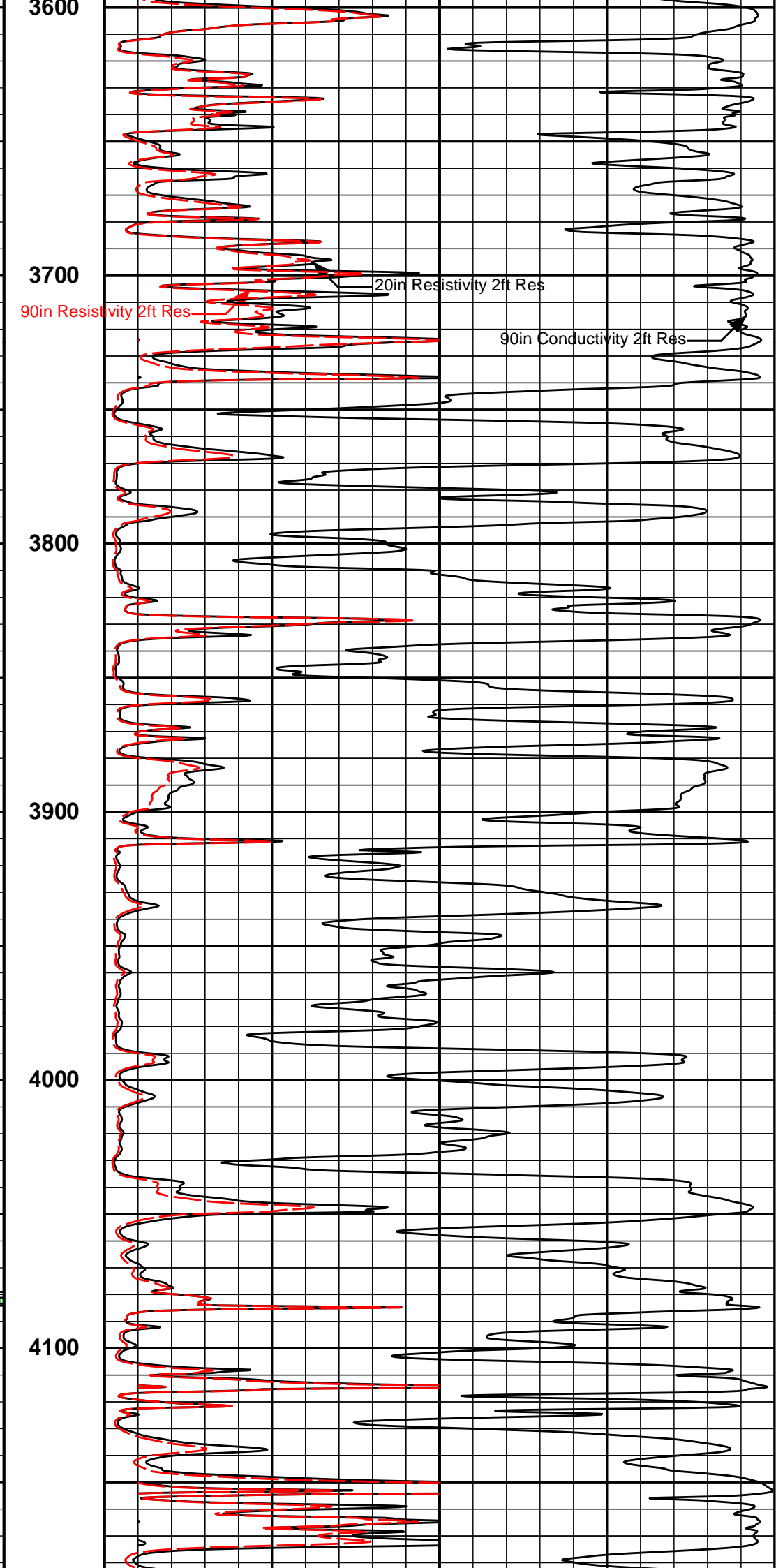
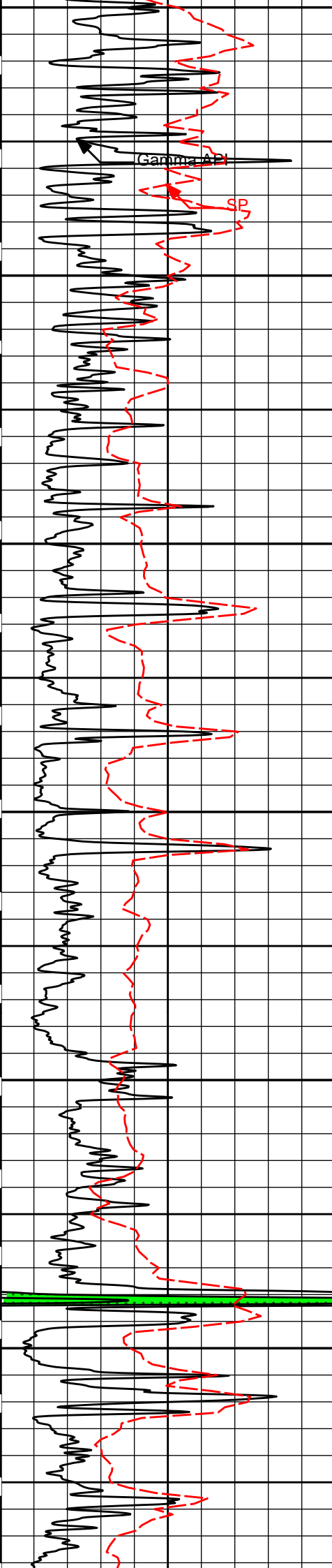
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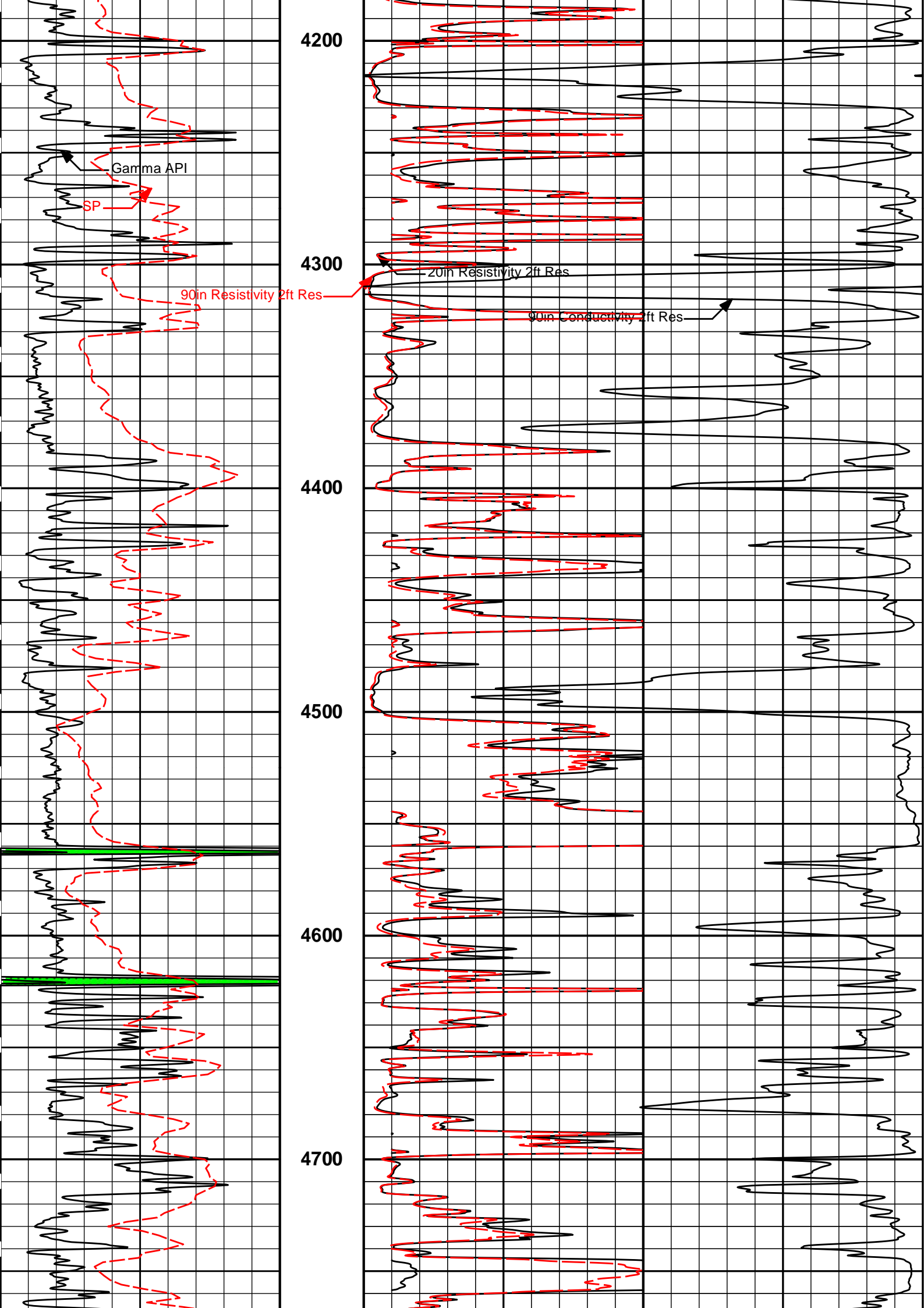


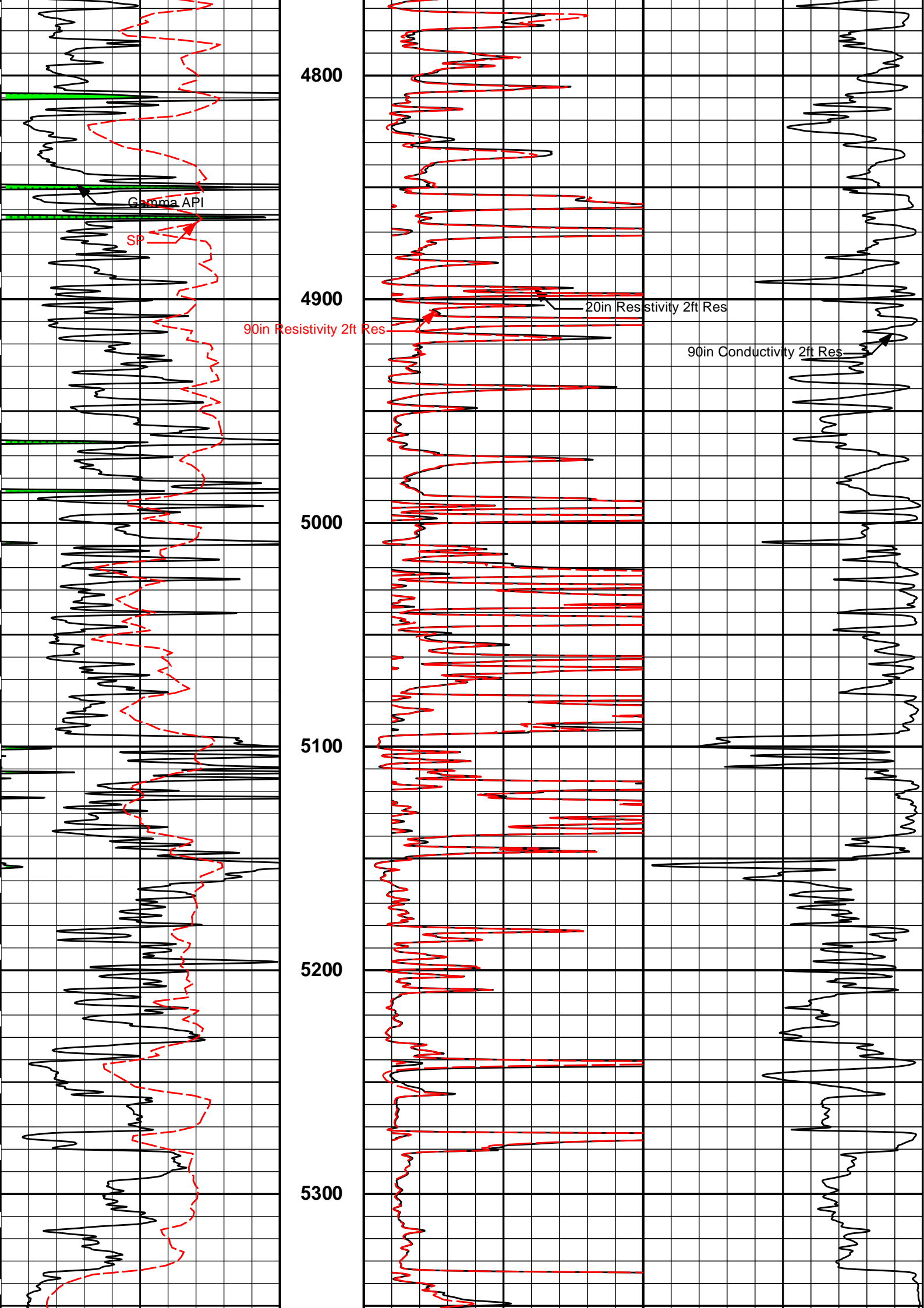


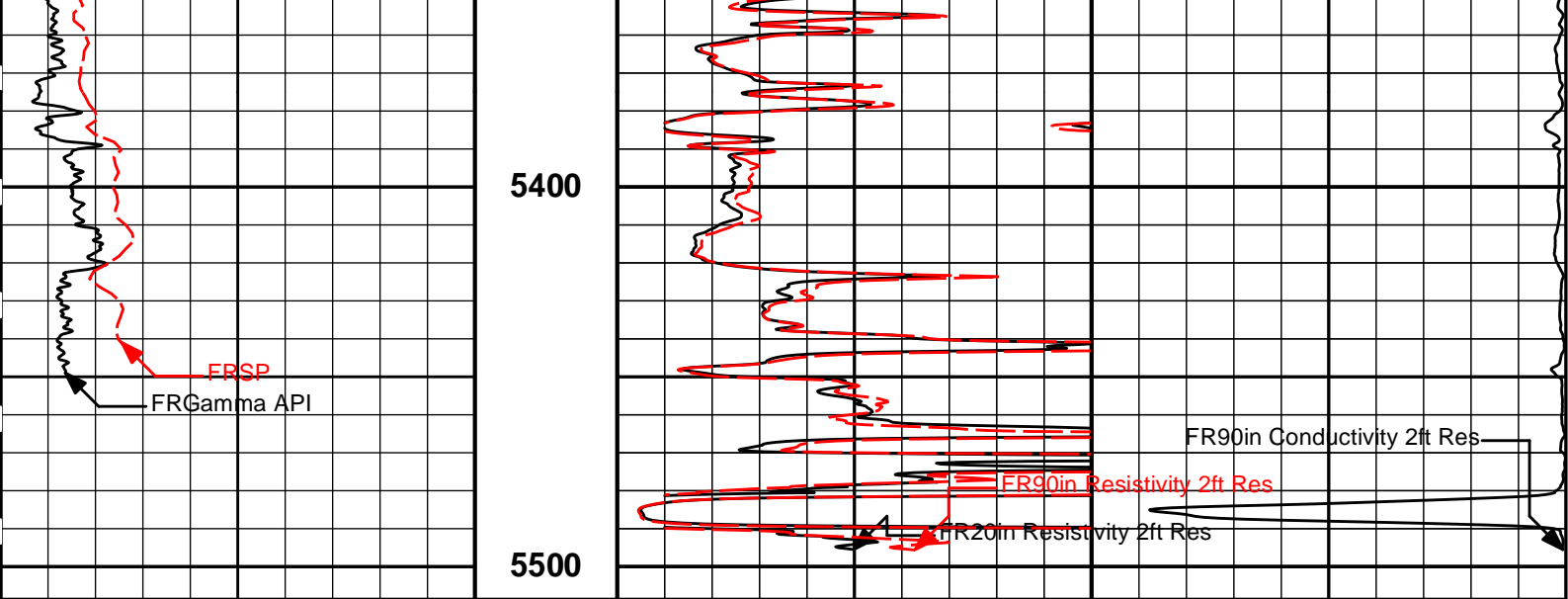












0	Gamma API	150	1 : 600 ft	0	20in Resistivity 2ft Res	50
	api			0	90in Resistivity 2ft Res	50
	SP					
	-]20[+			1000	90in Conductivity 2ft Res	0
					mmho per metre	

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