HALLIBURTON

ARRAY COMPENSATED TRUE RESISTIVITY 2 INCH

COMPANY MERIT ENERGY COMPANY, LLC
WELL NORTH REEVE 1-11
FIELD/BLOCK WILDCAT
COUNTY FINNEY STATE KS

COMPANY **MERIT ENERGY COMPANY, LLC**

WELL **NORTH REEVE 1-11**

FIELD/BLOCK **WILDCAT**

COUNTY **FINNEY** STATE **KS**

API No. 15055225460100

Location 2421' FWL & 2160' FSL
SE NE NE SW

Sect. 11 Twp. 25 Rge. 33W

Other Services:
GTET
DSNT-SDLT
BSAT
ACRT

Permanent Datum	GL	Elev. 2897.0 ft	Elev.: K.B. 2909.0 ft
Log measured from	KB	12.0 ft above perm. Datum	D.F. 2908.0 ft
Drilling measured from	KB		G.L. 2897.0 ft

Date		04-Oct-22					
Run No.		ONE					
Depth - Driller		5185.0 ft					
Depth - Logger		5185.0 ft					
Bottom - Logged Interval		5173.0 ft					
Top - Logged Interval		1796.0 ft					
Casing - Driller		8.625 in	@ 1795.0 ft	@		@	
Casing - Logger		1796.0 ft					
Bit Size		7.875 in		@		@	
Type Fluid in Hole		Water Based Mud					
Density	Viscosity	9.3 ppg	52.00 s/qt				
PH	Fluid Loss	10.50 pH	5.6 cptm				
Source of Sample		MUDPIT					
Rm @ Meas. Temperature		1.11 ohmm	@ 66.00 degF	@		@	
Rmf @ Meas. Temperature		0.97 ohmm	@ 66.00 degF	@		@	
Rmc @ Meas. Temperature		1.36 ohmm	@ 66.00 degF	@		@	
Source Rmf	Rmc	CHART	CHART				
Rm @ BHT		0.55 ohmm	@ 140.0 degF	@		@	
Time Since Circulation		07:45 hr					
Time on Bottom		04-Oct-22 06:58					
Max. Rec. Temperature		140.00 degF	@ 5180.0 ft	@		@	
Equipment	Location	12128583	ALVARADO, T				
Recorded By		K. BJERGA					
Witnessed By		M. LANGE					

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Sales Order Number: 908146768 API No.: 15055225460100 PGM Version: WL INSITE R6.6.7 (Build 8)

CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE

	Sample No.	Type Log	Depth	Scale Up Hole	Scale Down Hole
Date					
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

RESISTIVITY EQUIPMENT DATA

	Run No.	Tool Type & No.	Pad Type	Tool Pos.	Other
	@				
	@ ONE	ACRT	NONE	CENT	N/A
	@	S - 10933411			
	@				
	@				
	@				

EQUIPMENT DATA

GAMMA		ACOUSTIC		DENSITY		NEUTRON	
Run No.	ONE	Run No.		Run No.		Run No.	
Serial No.	11405267	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.	GTET	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	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix
No.	From	To	ft/min	L	R	L	R		L	R		L	R	
ONE	5185'	1796'	REC	0 gapi	150 gapi									

DIRECTIONAL INFORMATION

Maximum Deviation	@	KOP	@

Remarks: FIRST LOG ON WELL, POSITIVE DEPTH CONTROL APPLIED
SCALES AND PRESENTATIONS ARE AS PER CUSTOMER REQUEST
TOOLS RAN IN COMBINATION AS PER TOOLSTRING DIAGRAM
ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING

CREW: C. HERRERA, B. EZEKWU, S. MORALES
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES

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.

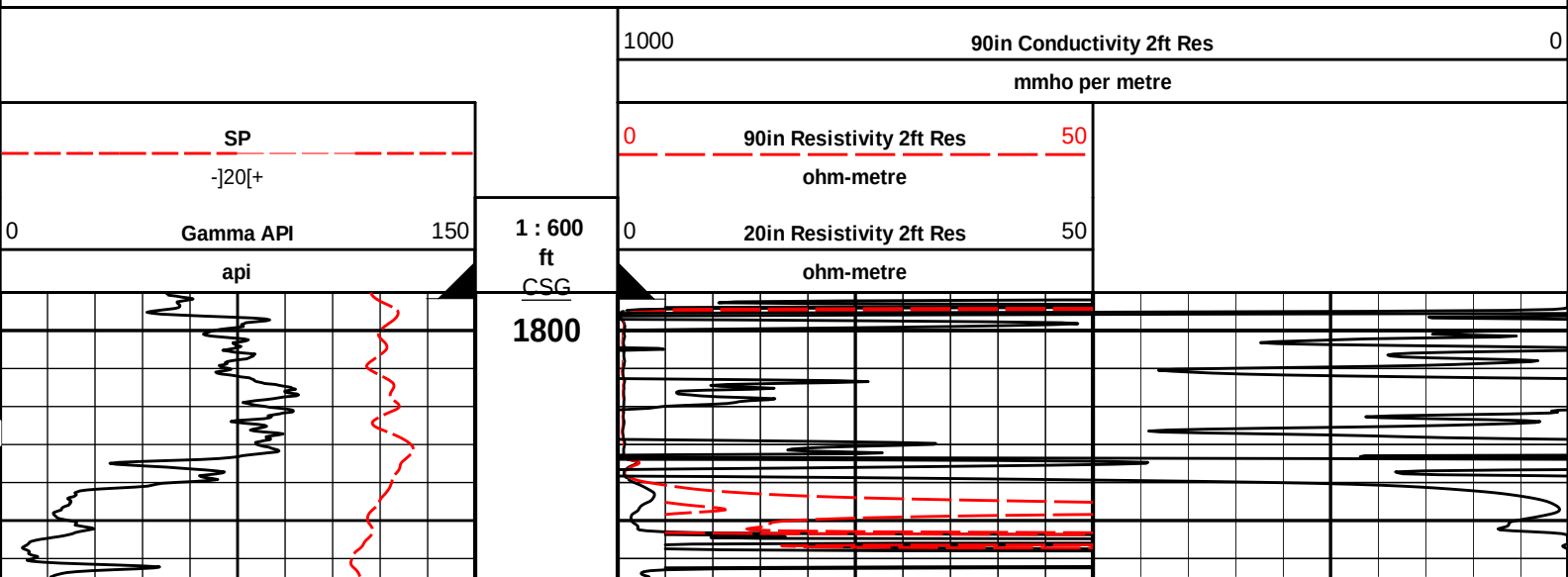
HALLIBURTON

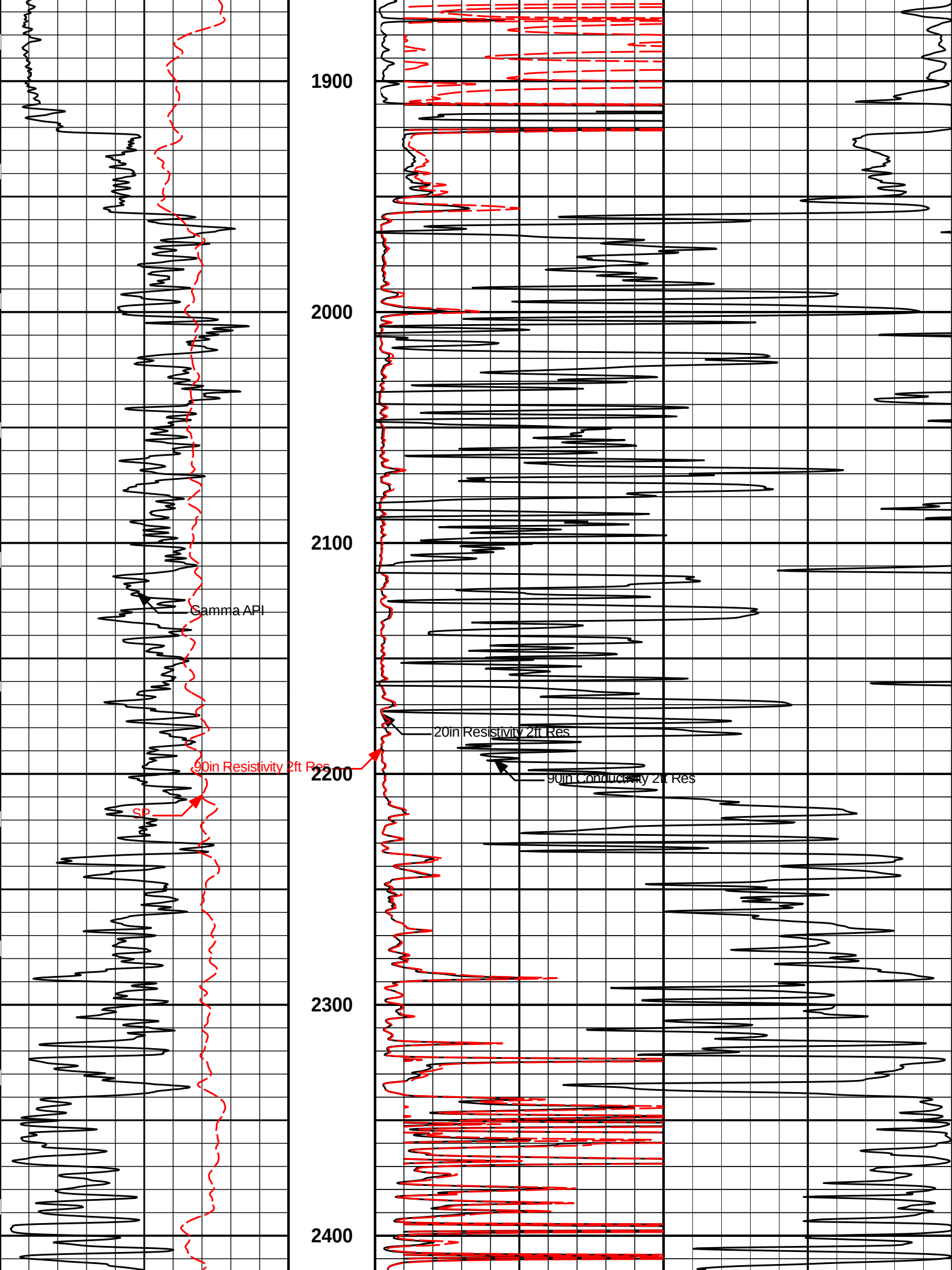
HALLIBURTON

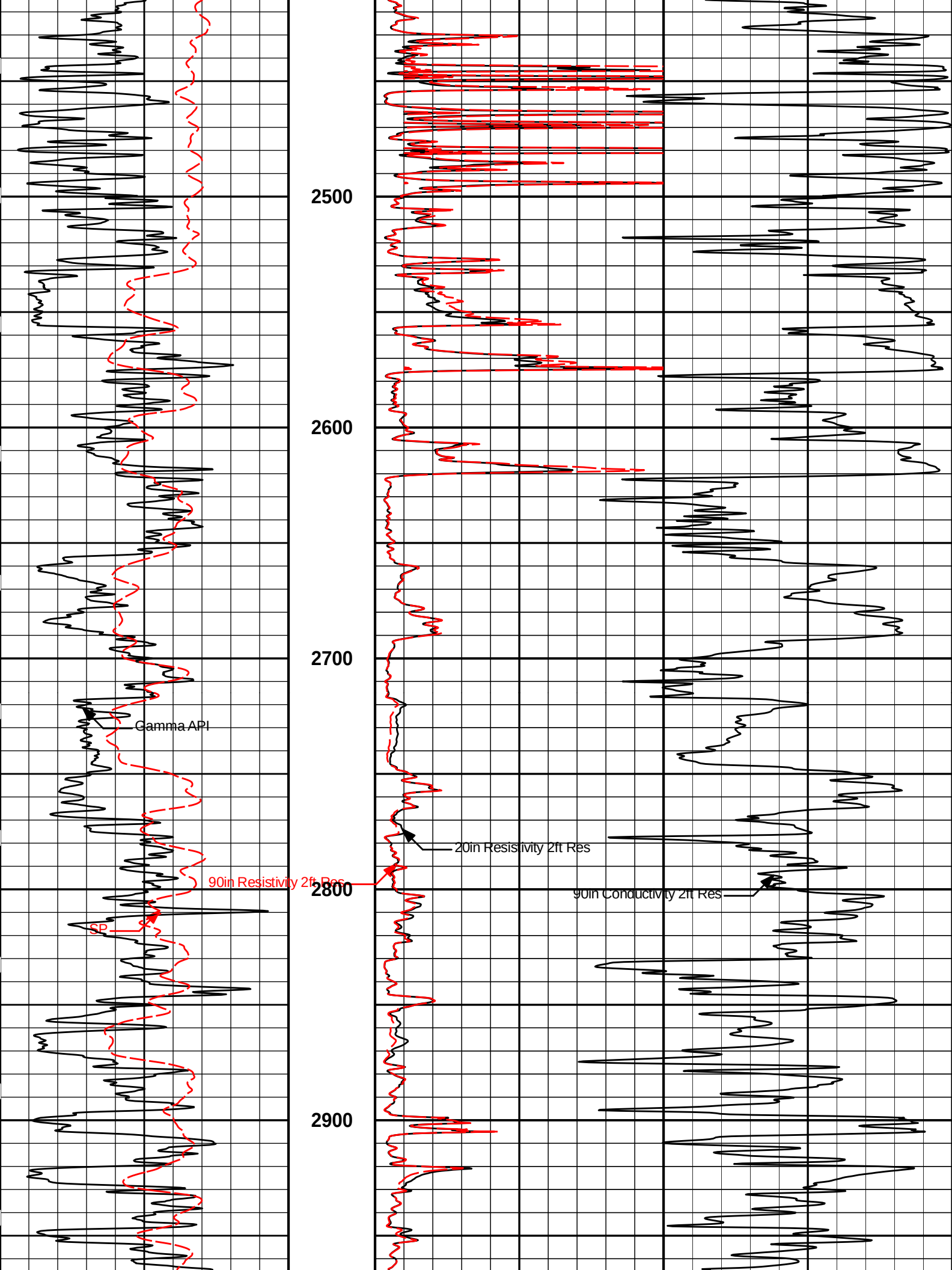
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Plot Range: 1790 ft to 5187 ft
Data: 10_04_MERIT\Well Based\DAQ-0001-005
Plot File: \\-LOCAL-\10_04_MERIT\0001 GTET-DSNT-SDLT-BSAT-ACRT\ACRT2\ACRT_2_main

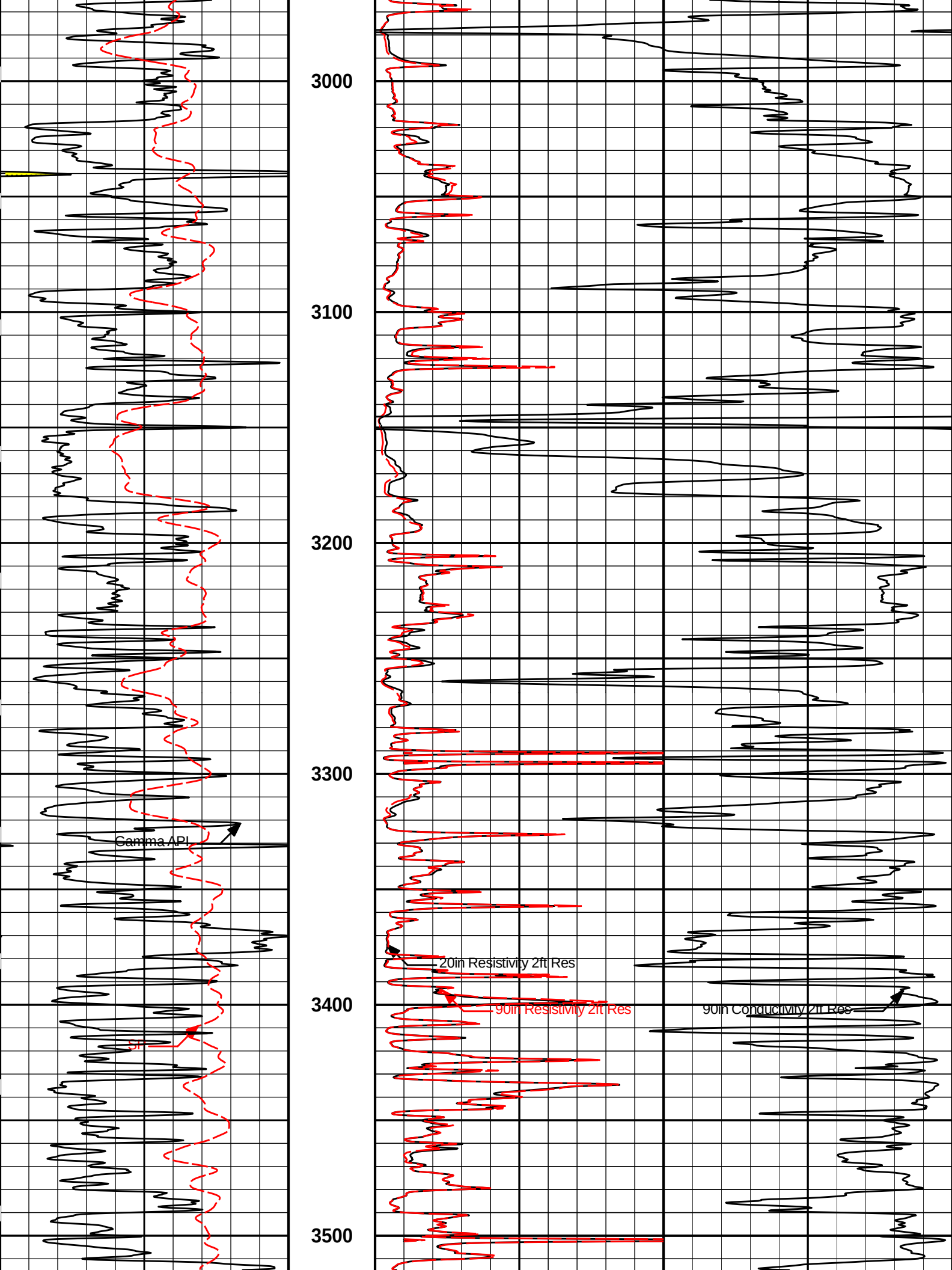
2 INCH MAIN LOG

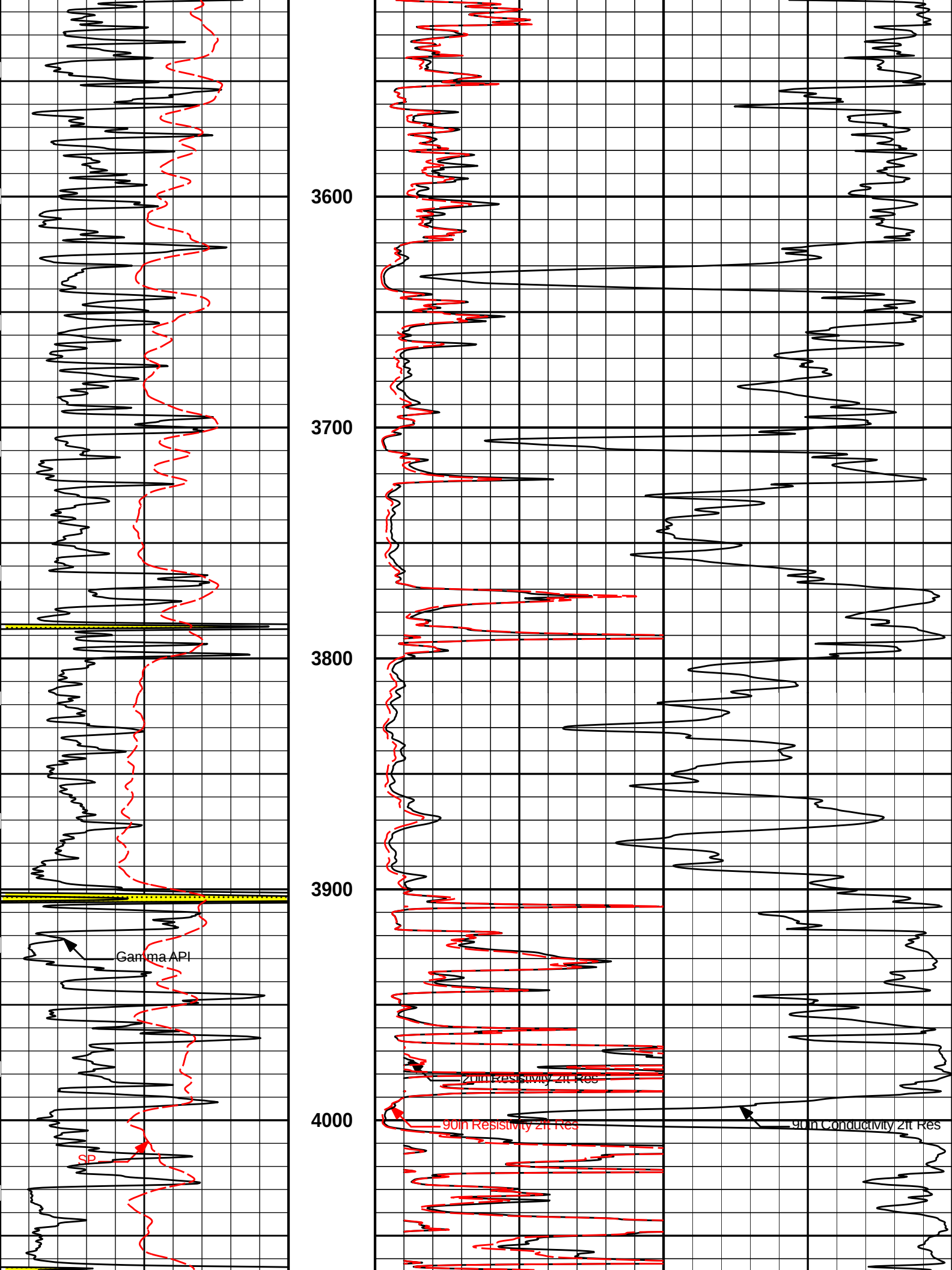
2 INCH MAIN LOG

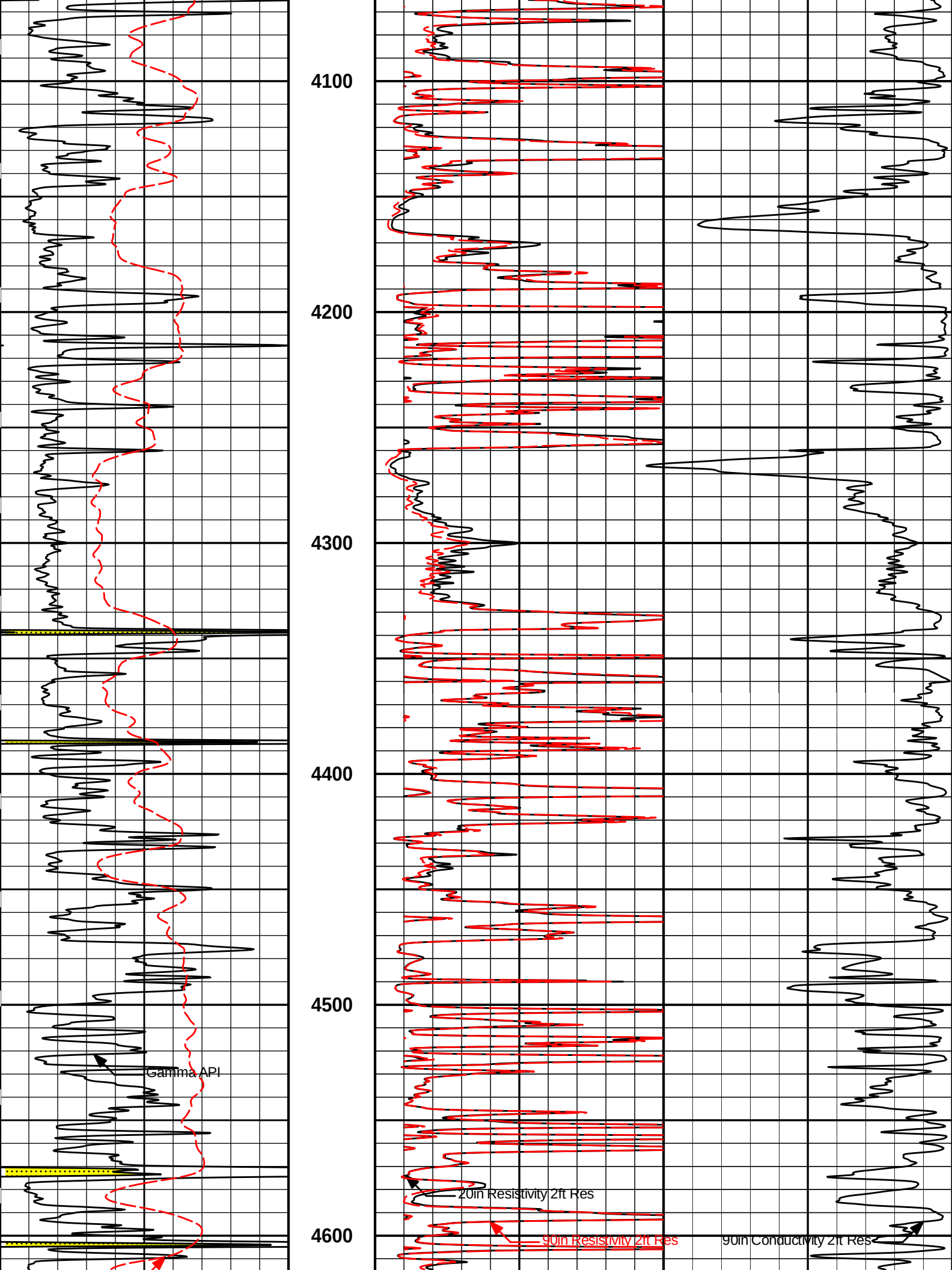


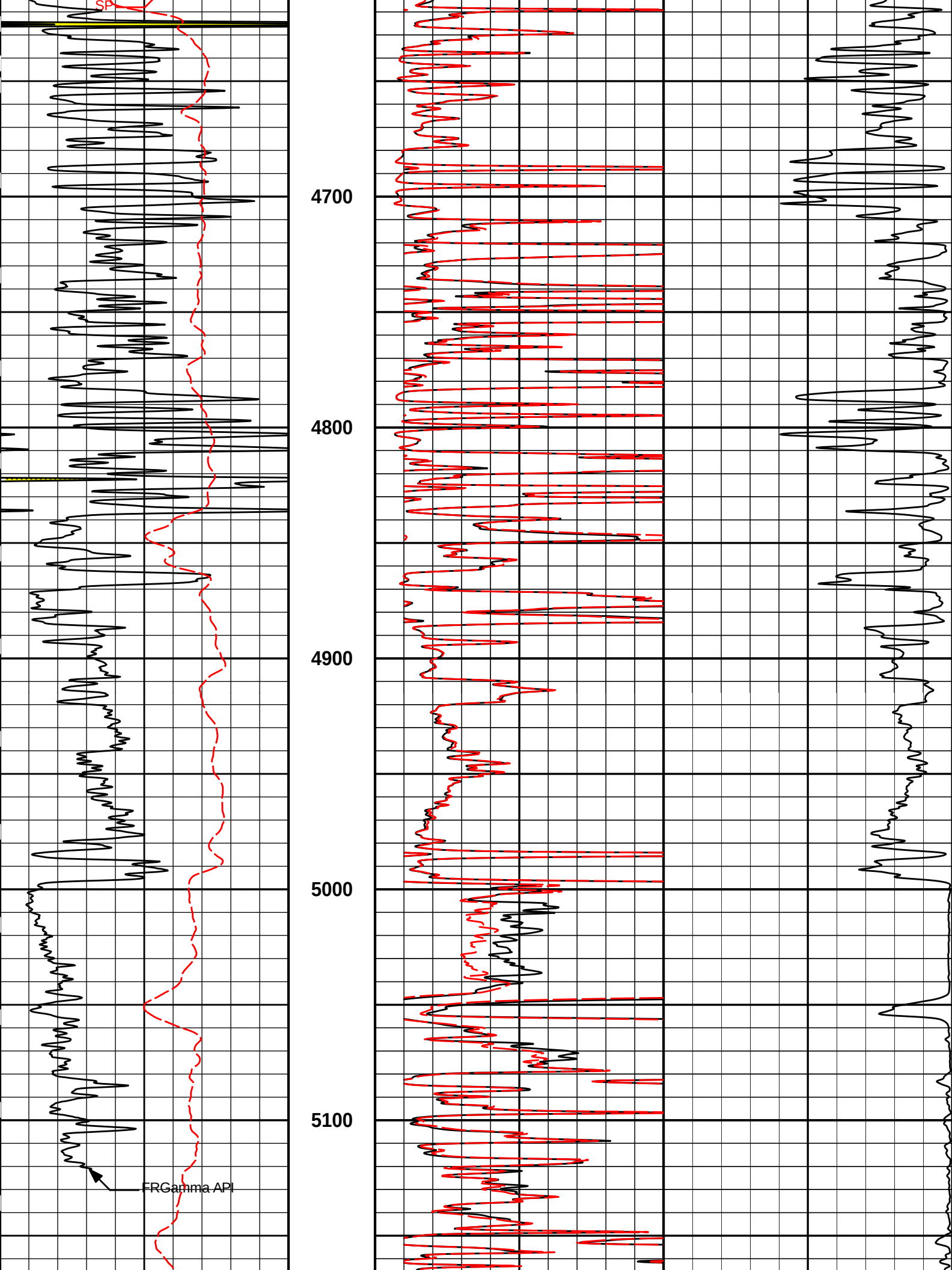

1900
2000
2100
2200
2300
2400
Gamma API
20in Resistivity 2ft Res
90in Resistivity 2ft Res
SP
90in Conductivity 2ft Res

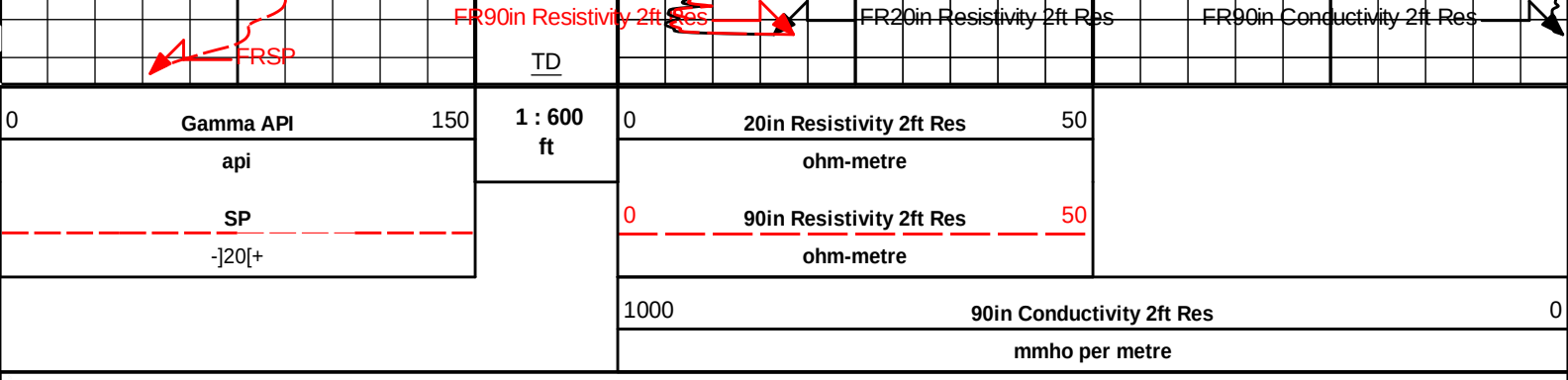

2500
2600
2700
2800
2900
Gamma API
20in Resistivity 2ft Res
90in Resistivity 2ft Res
SP
90in Conductivity 2ft Res


3000
3100
3200
3300
3400
3500
Gamma API
20in Resistivity 2ft Res
90in Resistivity 2ft Res
90in Conductivity 2ft Res


3600
3700
3800
3900
4000
Gamma API
SP
20in Resistivity 2ft Res
90in Resistivity 2ft Res
90in Conductivity 2ft Res


4100
4200
4300
4400
4500
4600
Gamma API
20in Resistivity 2ft Res
90in Resistivity 2ft Res
90in Conductivity 2ft Res


SP
4700
4800
4900
5000
5100
FRGamma API



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Plot Time: 04-Oct-22 09:44:11
Plot Range: 1790 ft to 5187 ft
Data: 10_04_MERIT\Well Based\DAQ-0001-005\
Plot File: \\-LOCAL-\10_04_MERIT\0001 GTET-DSNT-SDLT-BSAT-ACRT\ACRT2\ACRT_2_main

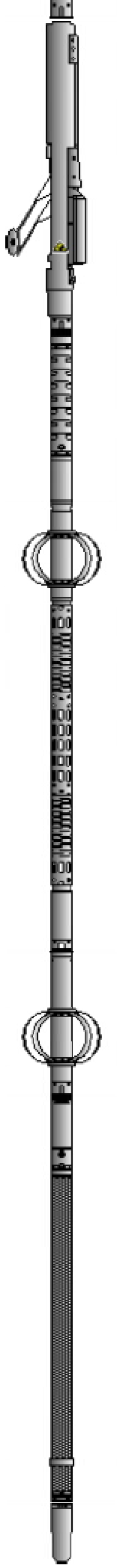
2 INCH MAIN LOG

2 INCH MAIN LOG

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TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
		Ø 2.310 in		Fishing Neck @ 77.47 ft		78.35 ft
RWCH-12027540 135.00 lbs		Ø 3.625 in		Load Cell @ 74.66 ft BH Temperature @ 74.10 ft	6.25 ft	
	Weak Point 12000 lbs- 00000012 0.01 lbs	Ø 0.010 in*		Z-Accelerometer @ 71.65 ft		72.10 ft
GTET-11405267 165.00 lbs		Ø 3.625 in		GammaRay @ 66.04 ft	8.52 ft	
						63.58 ft
	DSN Decentralizer- 11019643 6.60 lbs	Ø 5.000 in*				
DSNT-11019641 174.00 lbs		Ø 3.625 in		DSN Far @ 56.64 ft DSN Near @ 55.89 ft	9.69 ft	



SDLT-10695352
360.00 lbs

SDLT Pad-10865883
65.00 lbs

Microlog Pad-10695352
8.00 lbs

RAM-Cs137-10020004
1.00 lbs

Ø 4.500 in
Ø 4.500 in*
Ø 4.750 in*
Ø 0.800 in*

Microlog @ 46.08 ft
SDL Caliper @ 45.89 ft
SDL @ 45.88 ft

53.89 ft
10.81 ft
43.08 ft

Flex Joint -
Pressure Comp-
11068239
140.00 lbs

Ø 3.625 in

5.97 ft
37.11 ft

Centralizer 25-00000001
8.00 lbs

Ø 4.000 in*

BSAT-10747681
300.00 lbs

Ø 3.625 in

Receiver Array @ 28.59 ft
Sonic Receivers @ 28.59 ft

15.77 ft
21.33 ft

ACRt Instrument-
10967817
50.00 lbs

Centralizer 25-00000002
8.00 lbs

Ø 3.625 in
Ø 4.000 in*

5.03 ft
16.30 ft

Mud Resistivity @ 14.94 ft

ACRt @ 10.96 ft

ACRt Sonde-
10933411
200.00 lbs

Ø 3.625 in

14.22 ft

SP Ring-10933411
0.00 lbs

Ø 3.625 in*

SP @ 3.36 ft

2.08 ft

Hole Finder-
11111111
50.00 lbs

Ø 2.800 in
Ø 3.625 in

2.08 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	12027540	135.00	6.25		72.10	300.00
WP12K	Weak Point 12000 lbs	00000012	0.01	0.01	*	72.90	300.00
GTET	Gamma Telemetry Tool	11405267	165.00	8.52		63.58	60.00
DSNT	Dual Spaced Neutron	11019641	174.00	9.69		53.89	60.00
DCNT	DSN Decentralizer	11019643	6.60	5.13	*	57.22	300.00
SDLT	Spectral Density Tool	10695352	360.00	10.81		43.08	60.00
SDLP	Density Insite Pad	10865883	65.00	2.55	*	45.29	60.00
Cs137	Logging Source, SDLT-I, 1.78 Ci - Cs137	10020004	1.00	0.80	*	45.52	300.00
MICP	Microlog Pad	10695352	8.00	1.00	*	45.58	60.00
FLEX	Flex Joint - Pressure Compensated	11068239	140.00	5.97		37.11	300.00
BSAT	Borehole Sonic Array Tool	10747681	300.00	15.77		21.33	60.00
OBCEN	Centralizer - 25 in. Overbody	00000001	8.00	2.08	*	33.99	300.00
ACRt	Array Compensated True Resistivity Instrument Section	10967817	50.00	5.03		16.30	120.00
OBCEN	Centralizer - 25 in. Overbody	00000002	8.00	2.08	*	17.29	300.00
ACRt	Array Compensated True Resistivity Sonde Section	10933411	200.00	14.22		2.08	120.00
SP	SP Ring	10933411	0.00	0.25	*	3.36	300.00
HFND	Hole Finder	11111111	50.00	2.08		0.00	300.00
Total			**1,670.61**	**78.35**			

* Not included in Total Length and Length Accumulation.

Data: 10_04_MERIT\0001 GTET-DSNT-SDLT-BSAT-ACRT\IDLE **Date: 04-Oct-22 06:05:33**

COMPANY	**MERIT ENERGY COMPANY, LLC**		
WELL	**NORTH REEVE 1-11**		
FIELD	**WILDCAT**		
COUNTY	**FINNEY**	STATE	**KS**

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ARRAY COMPENSATED TRUE RESISTIVITY 2 INCH