HALLIBURTON

ARRAY COMPENSATED TRUE RESISTIVITY LOG

COMPANY	HARTMAN OIL COMPANY, INC.
WELL	DAMME #41-A
FIELD	DAMME
COUNTY	FINNEY
STATE	KANSAS

COMPANY HARTMAN OIL COMPANY, INC.
WELL DAMME #41-A
FIELD DAMME
COUNTY FINNEY STATE KANSAS

API No. 15-055-22102
Location 1065' FSL & 2310' FEL

Other Services:
DSN/SDL
MICRO

Sect. 21 Twp. 22S Rge. 33W

Permanent Datum	GL	Elev. 2892.0 ft	Elev.: K.B. 2902.0 ft
Log measured from	KB	10.0 ft above perm. Datum	D.F. 2901.0 ft
Drilling measured from	KB		G.L. 2892.0 ft

Date	10-Aug-11		
Run No.	1		
Depth - Driller	4875.00 ft		
Depth - Logger	7871.0 ft		
Bottom - Logged Interval	7862.0 ft		
Top - Logged Interval	756.0 ft		
Casing - Driller	8.625 in @ 752.0 ft	@	@
Casing - Logger	756.0 ft		
Bit Size	7.875 in	@	@
Type Fluid in Hole	WATER BASED MUD		
Density / Viscosity	8.7 ppg / 50.00 s/qt		
PH / Fluid Loss	9.50 pH / 8.0 cptm		
Source of Sample	FLOW LINE		
Rm @ Meas. Temperature	1.030 ohmm @ 85.00 degF	@	@
Rmf @ Meas. Temperature	0.85 ohmm @ 80.00 degF	@	@
Rmc @ Meas. Temperature	1.230 ohmm @ 80.00 degF	@	@
Source Rmf / Rmc	MEASURED / MEASURED		
Rm @ BHT	0.83 ohmm @ 120.0 degF	@	@
Time Since Circulation	5.0 hr		
Time on Bottom	10-Aug-11 09:39		
Max. Rec. Temperature	120.0 degF @ 7871.0 ft	@	@
Equipment / Location	10782954 / LIBERAL		
Recorded By	J. BOSH		
Witnessed By	B. ARDE	C. PETERS	

Fold here

Service Ticket No.: 83728564 API Serial No.: 15-055-22102 PGM Version: WL INSITE R3.2.5 (Build 2)

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 S775	N/A	1.5" S.O.	N/A

EQUIPMENT DATA

GAMMA		ACOUSTIC		DENSITY		NEUTRON	
Run No.	ONE	Run No.		Run No.		Run No.	
Serial No.	10748374	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

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									

DIRECTIONAL INFORMATION

Maximum Deviation	@	KOP	@

Remarks: ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING

CHLORIDES: 1000 PPM LCM: 24 #/BBL

GPS COORDINATES: LAT: 38.72 N LONG: 100.95 W

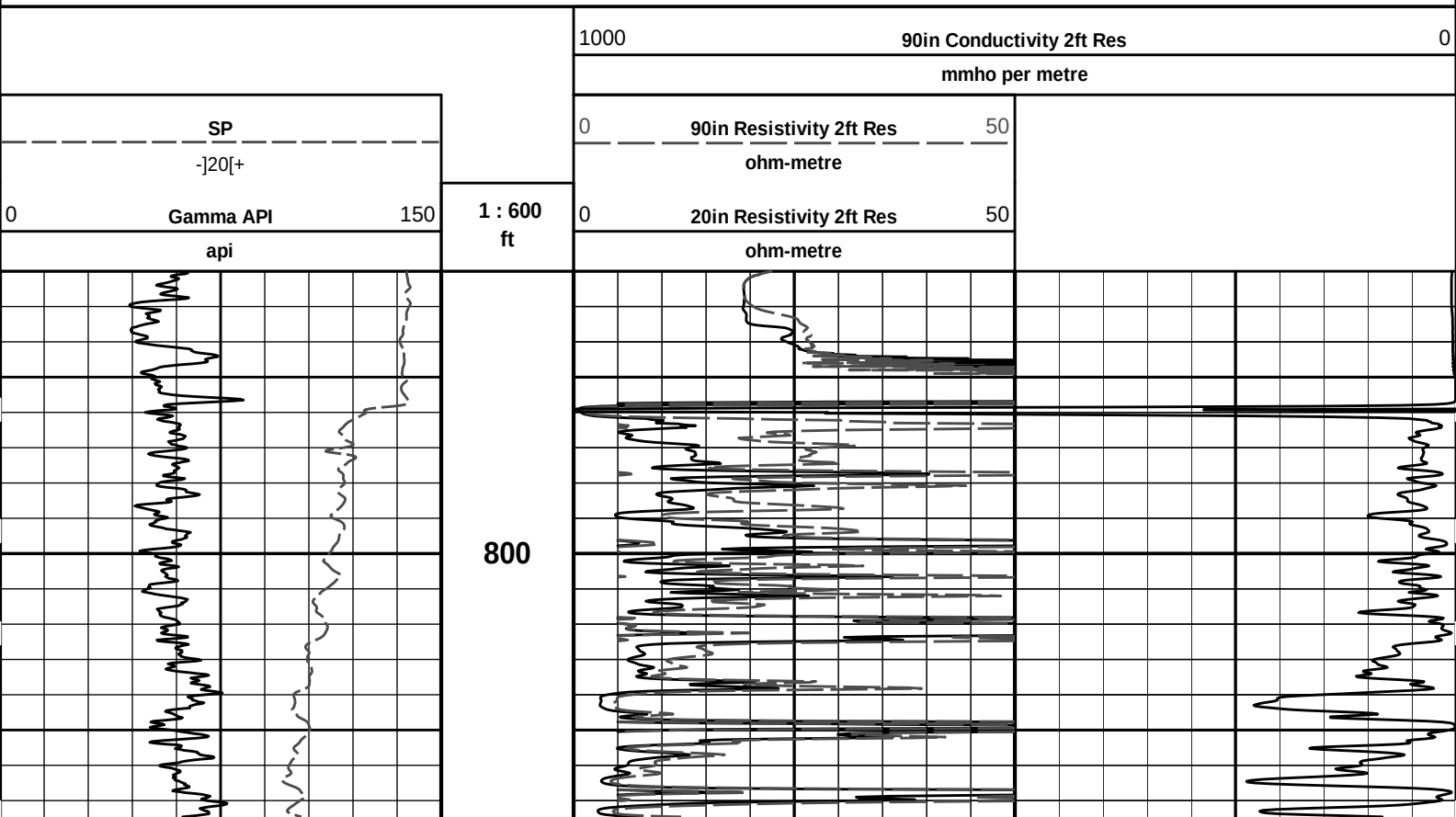
TODAY'S CREW: A. VAQUERA, P. COBLE

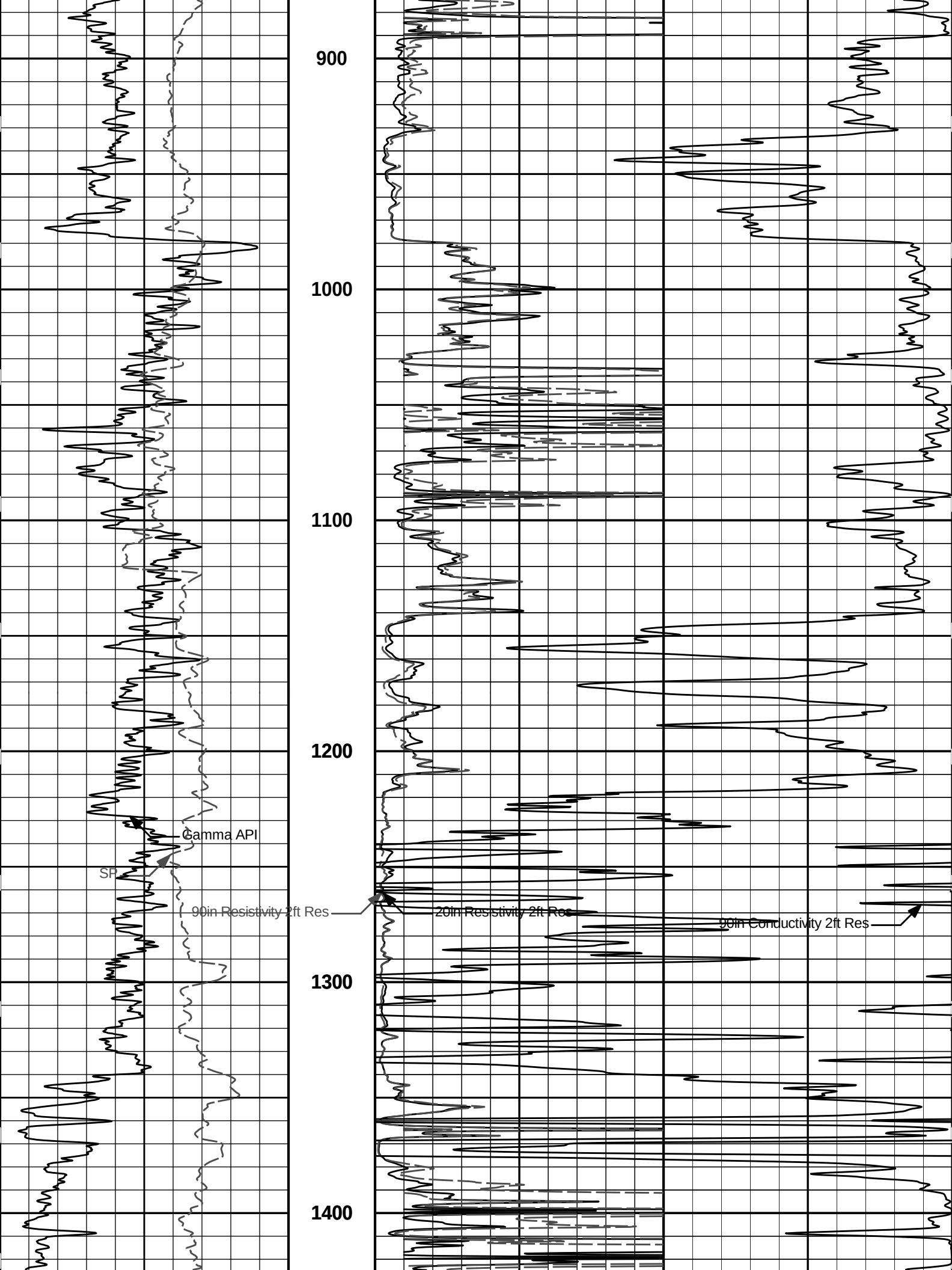
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES. LIBERAL, KS 620-624-8123

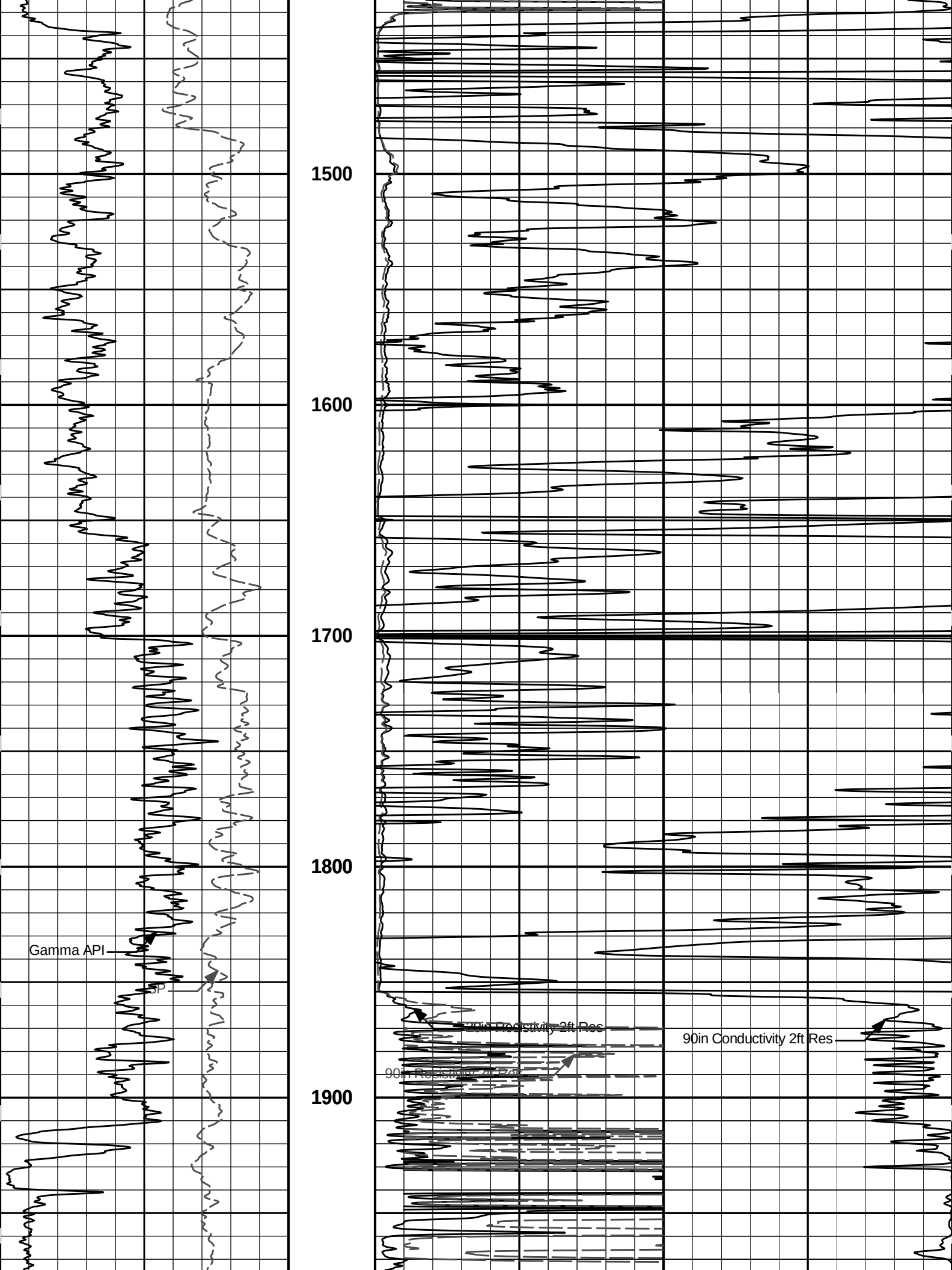
HALLIBURTON

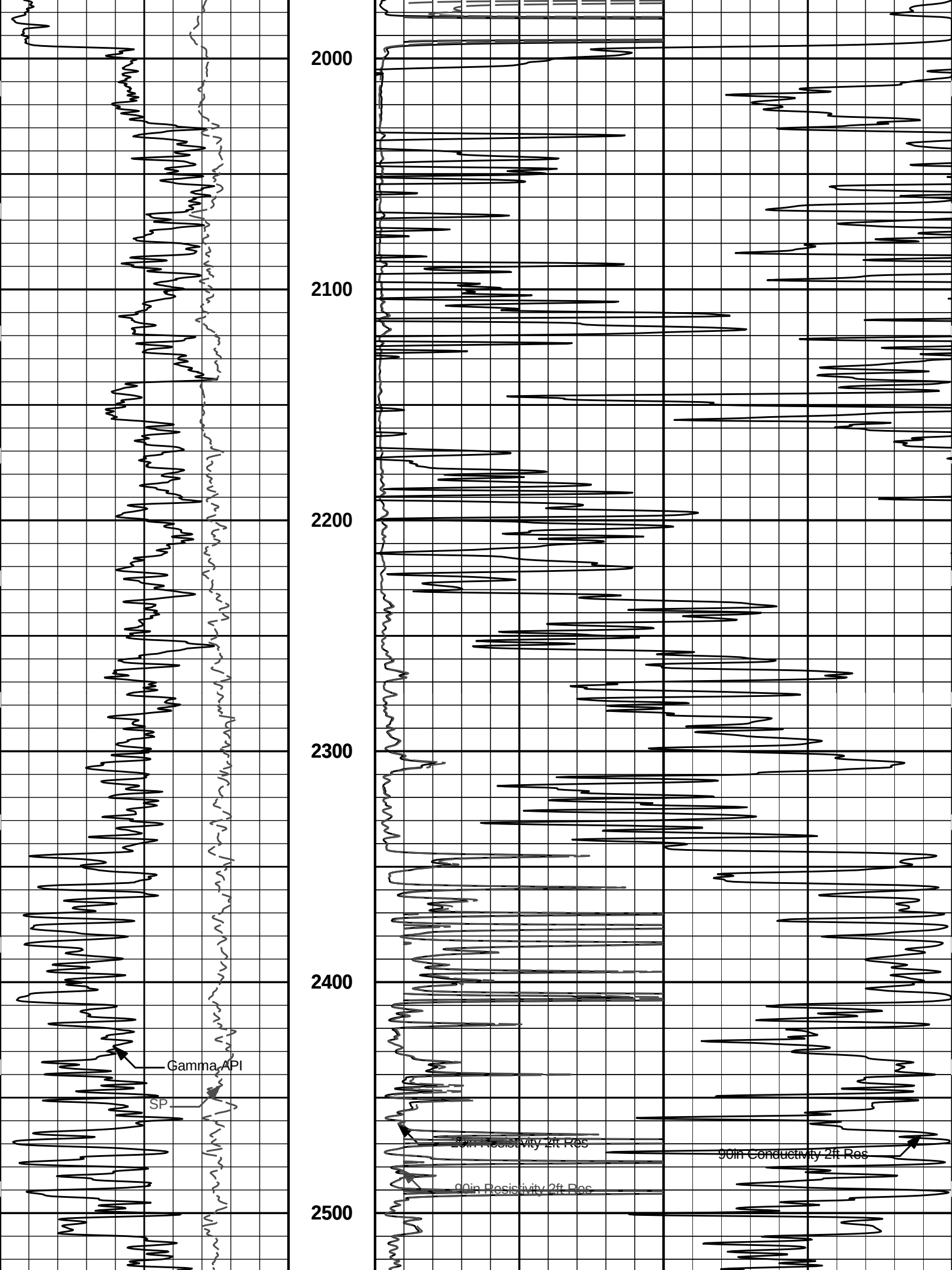
Plot Time: 10-Aug-11 12:22:33
Plot Range: 720 ft to 4879.17 ft
Data: DAMME_41_A\Well Based\DAQ-0001-003
Plot File: \\-LOCAL-\DAMME_41_A\Well Based\ACRT\ACRT_2_lib

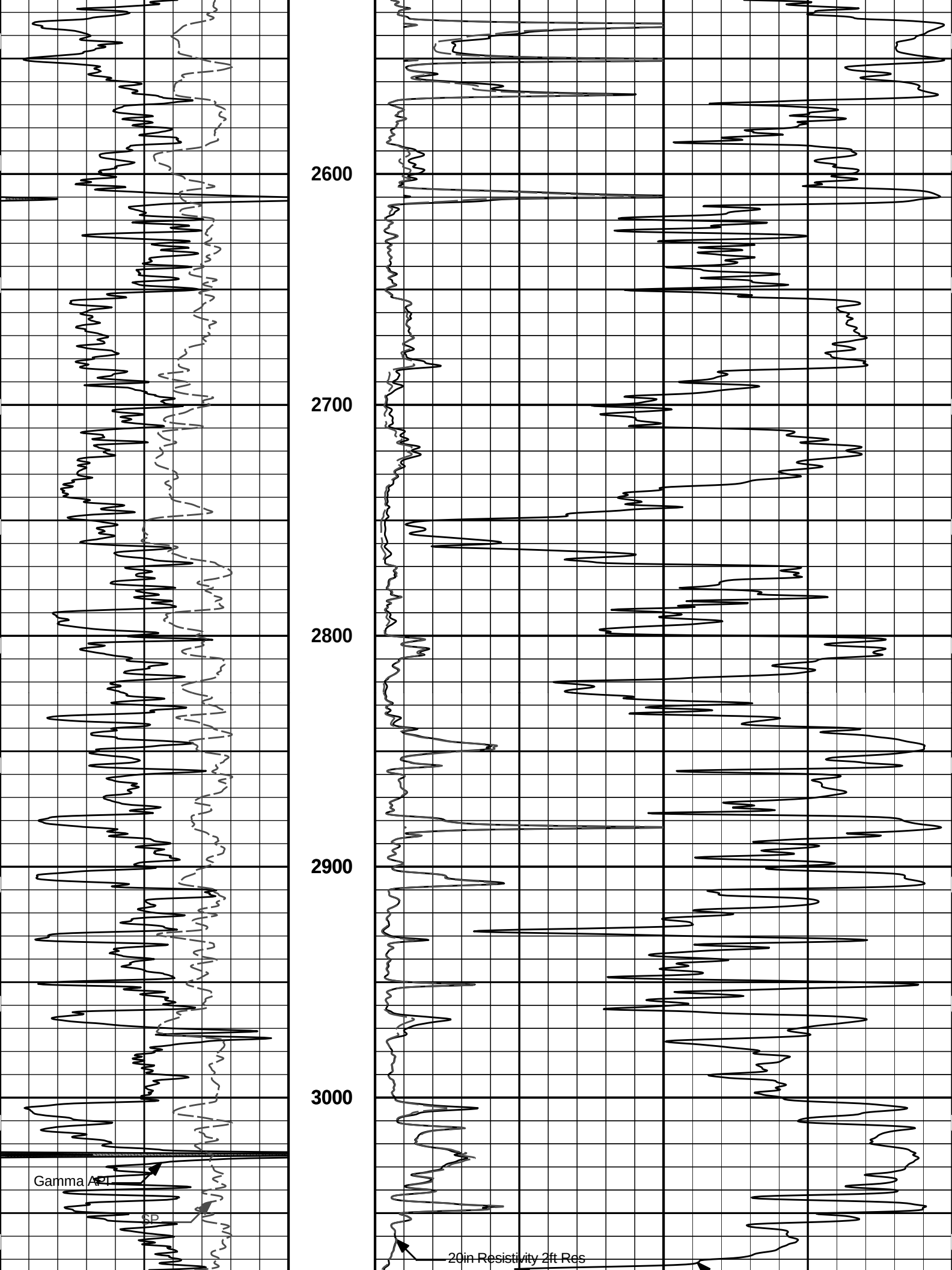
2 INCH MAIN LOG

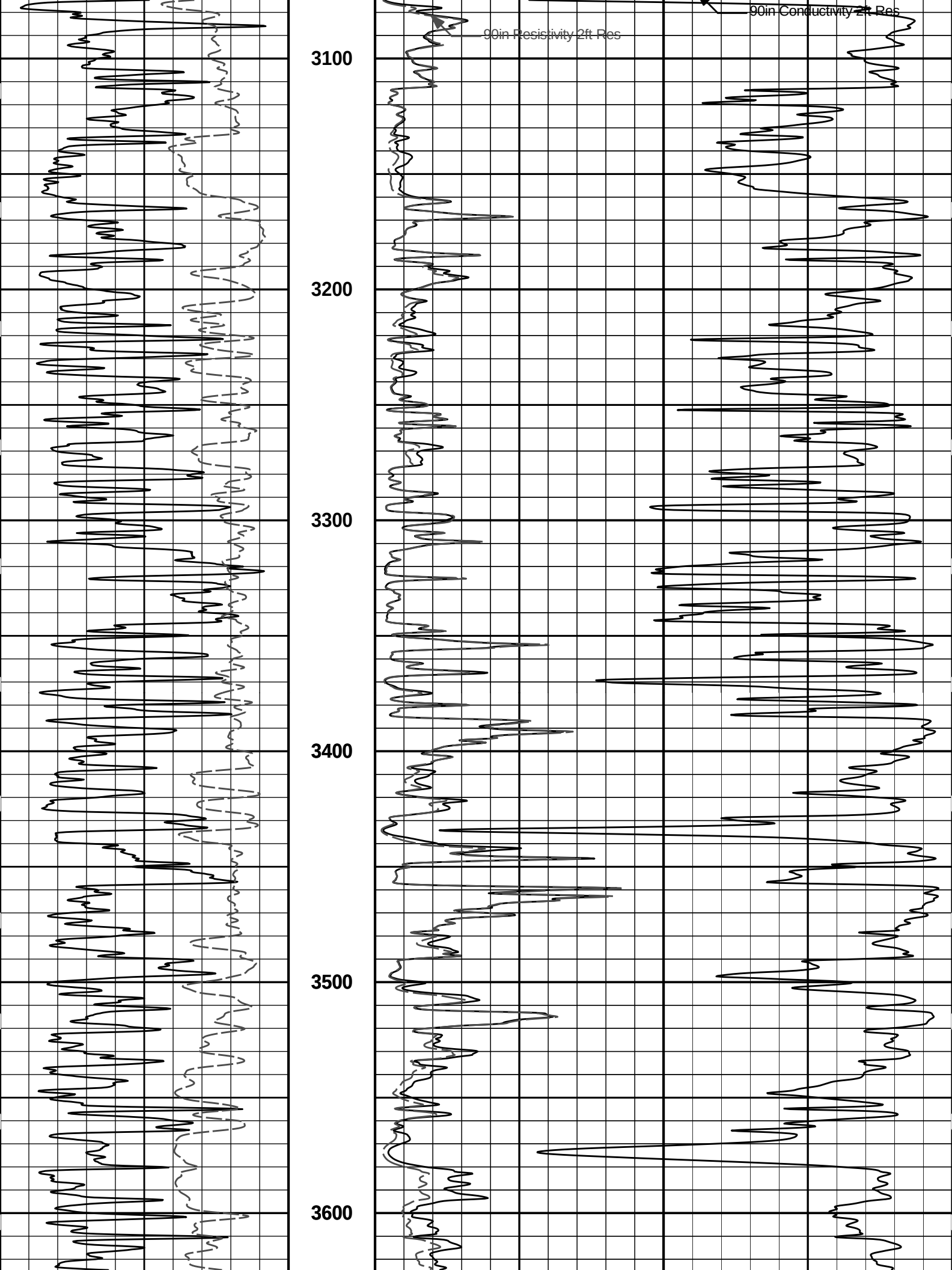


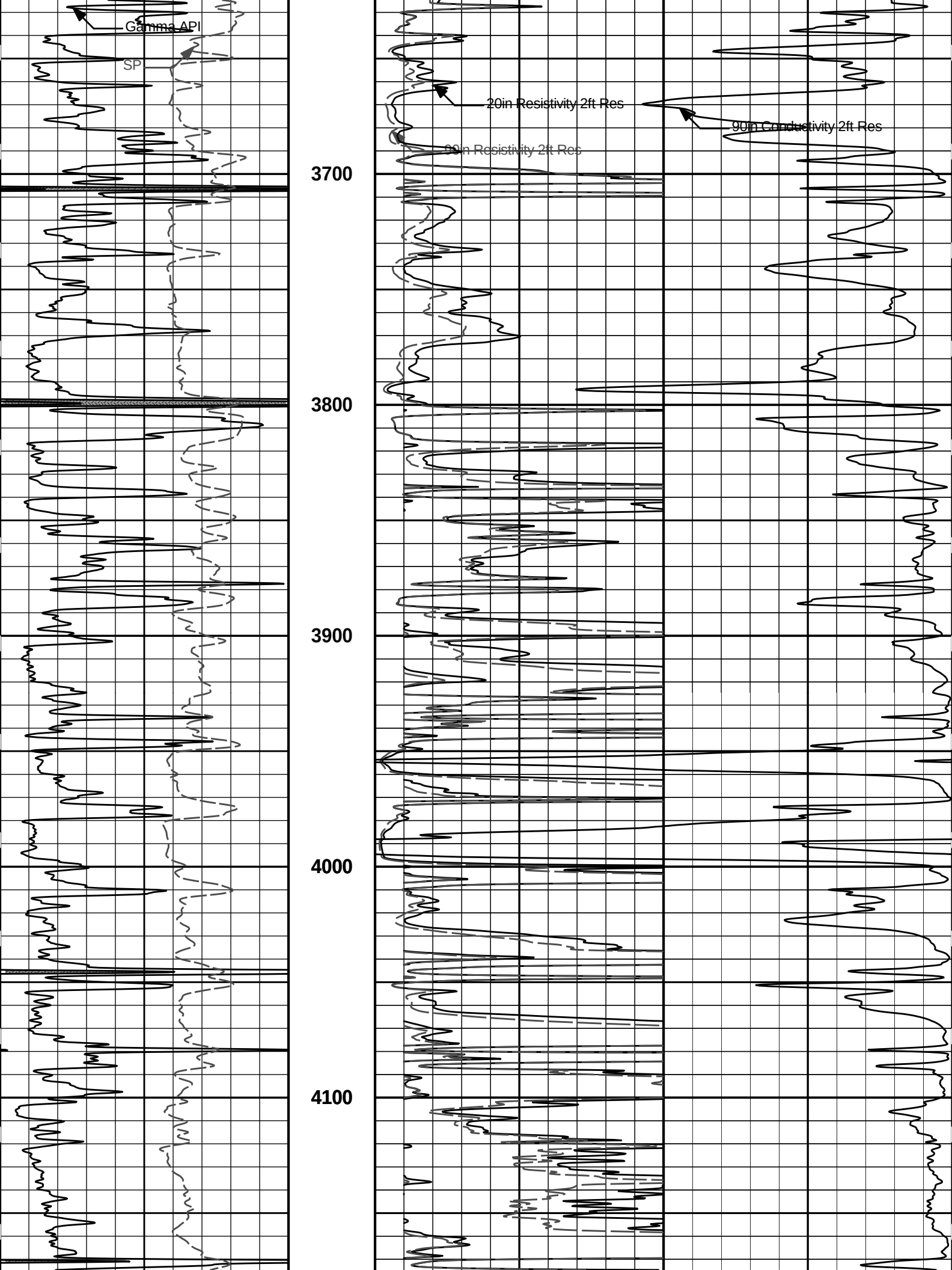

900
1000
1100
1200
1300
1400
Gamma API
SP
90in Resistivity 2ft Res
20in Resistivity 2ft Res
90in Conductivity 2ft Res

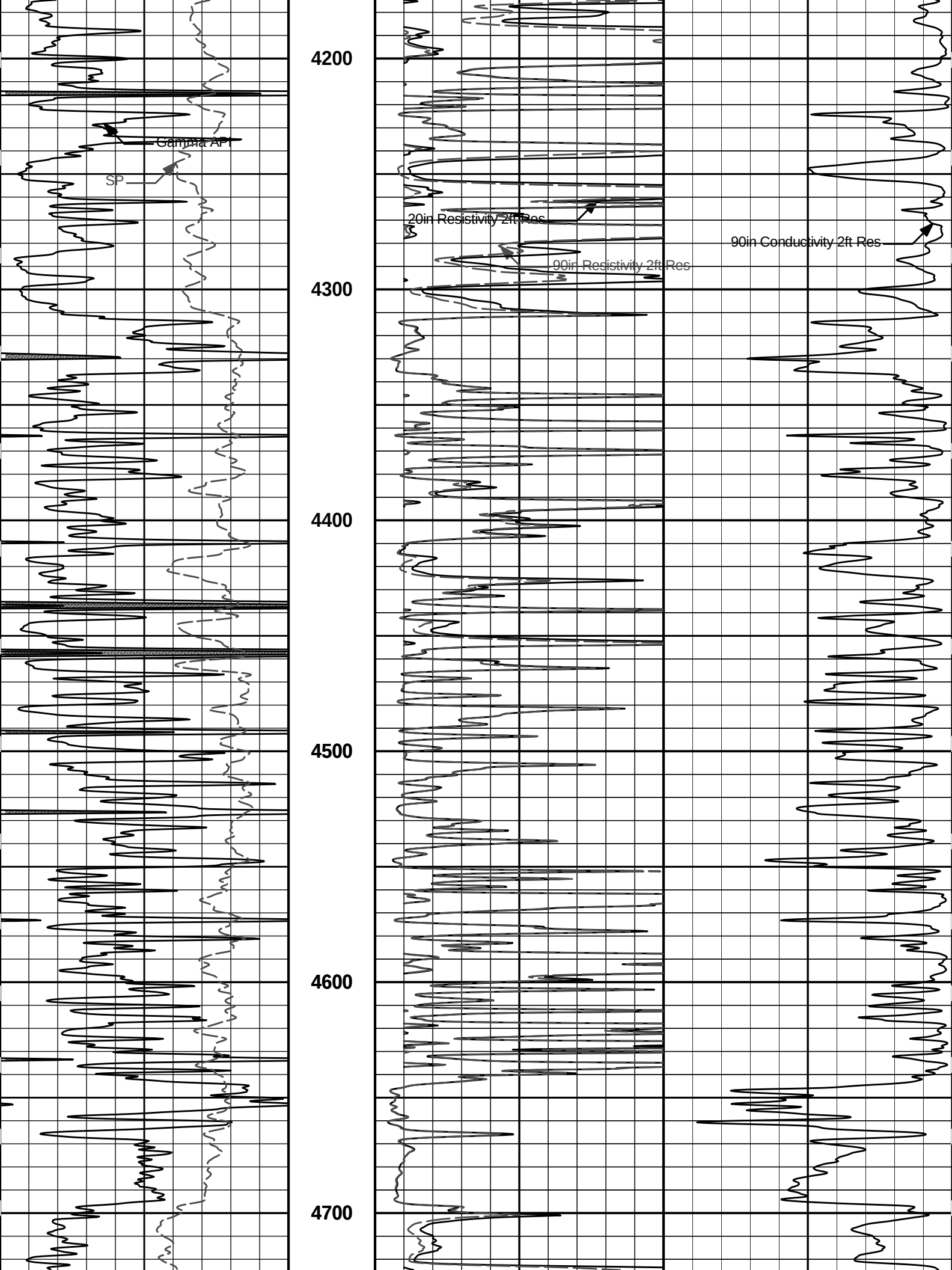

1500
1600
1700
1800
1900
Gamma API
SP
90in Conductivity 2ft Res

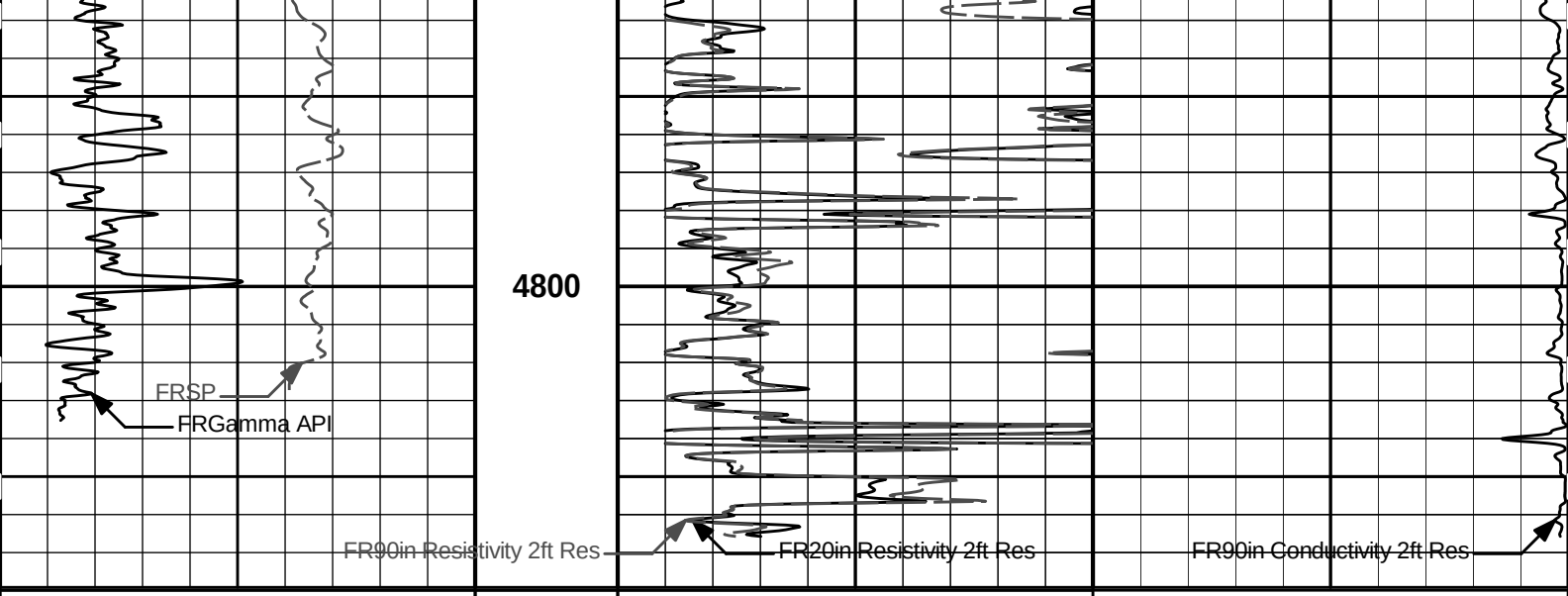

2000
2100
2200
2300
2400
2500
Gamma API
SP
90in Conductivity 2ft Res
90in Resistivity 2ft Res


2600
2700
2800
2900
3000
Gamma API
SP
20in Resistivity 2ft Res


90in Conductivity 2ft Res
90in Resistivity 2ft Res
3100
3200
3300
3400
3500
3600


Gamma API
SP
20in Resistivity 2ft Res
90in Conductivity 2ft Res
90in Resistivity 2ft Res
3700
3800
3900
4000
4100


4200
4300
4400
4500
4600
4700
Gamma API
SP
20in Resistivity 2ft Res
90in Resistivity 2ft Res
90in Conductivity 2ft Res



0 **Gamma API** 150
api
SP
-]20[+

1 : 600 ft

0 **20in Resistivity 2ft Res** 50
ohm-metre
0 **90in Resistivity 2ft Res** 50
ohm-metre

1000 **90in Conductivity 2ft Res** 0
mmho per metre

HALLIBURTON

Plot Time: 10-Aug-11 12:22:43
Plot Range: 720 ft to 4879.17 ft
Data: DAMME_41_A\Well Based\DAQ-0001-003
Plot File: \\-LOCAL-\DAMME_41_A\Well Based\ACRT\ACRT_2_lib

2 INCH MAIN LOG

HALLIBURTON

Plot Time: 10-Aug-11 12:22:43
Plot Range: 3550 ft to 4879.17 ft
Data: DAMME_41_A\Well Based\DAQ-0001-003
Plot File: \\-LOCAL-\DAMME_41_A\Well Based\ACRT\ACRT_5_main_lib

5 INCH MAIN LOG

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
0.2 **20in Resistivity 2ft Res** 2000
ohmm
0.2 **10in Resistivity 2ft Res** 2000
ohmm

SHALE

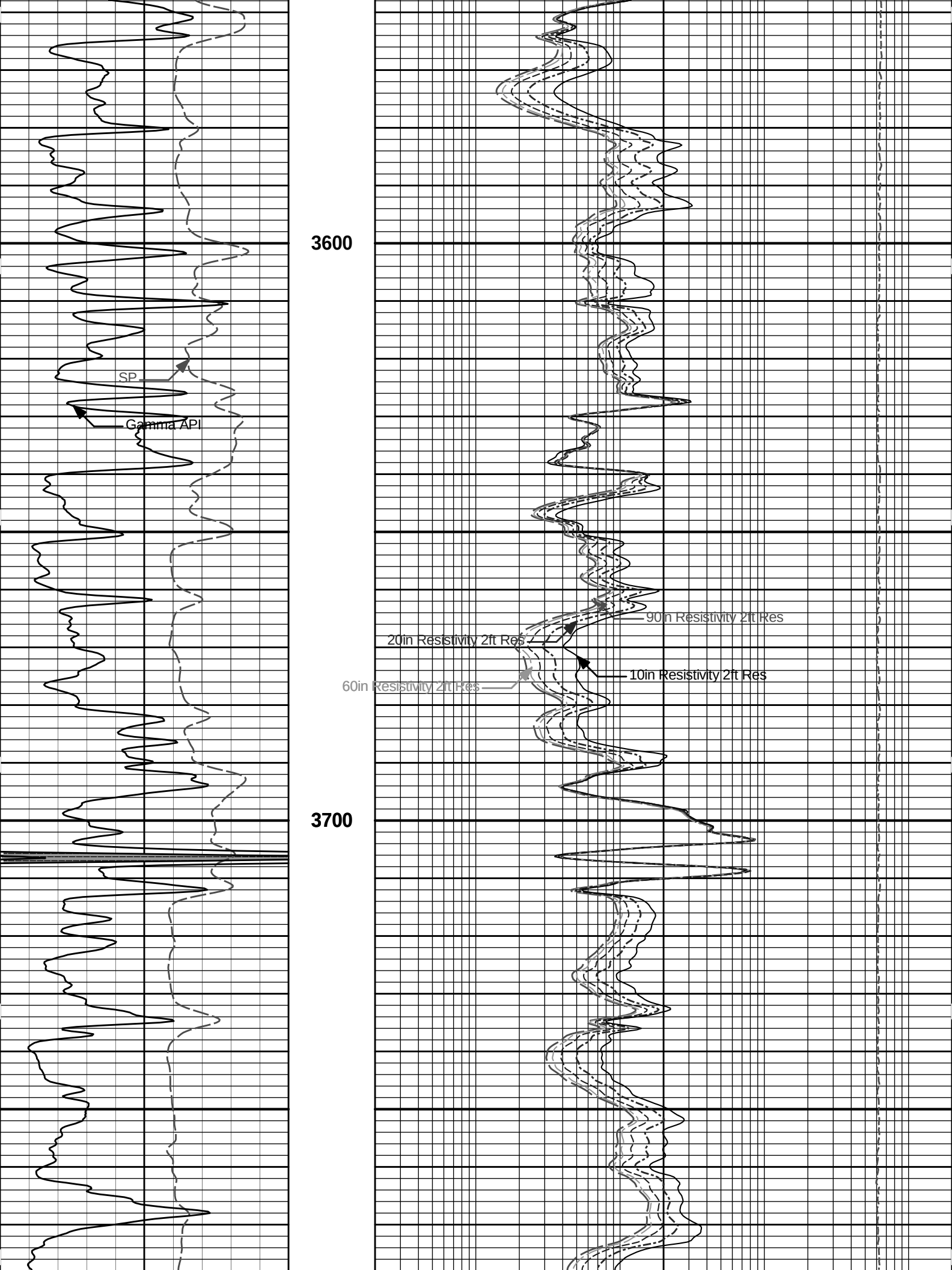
Tension Pull

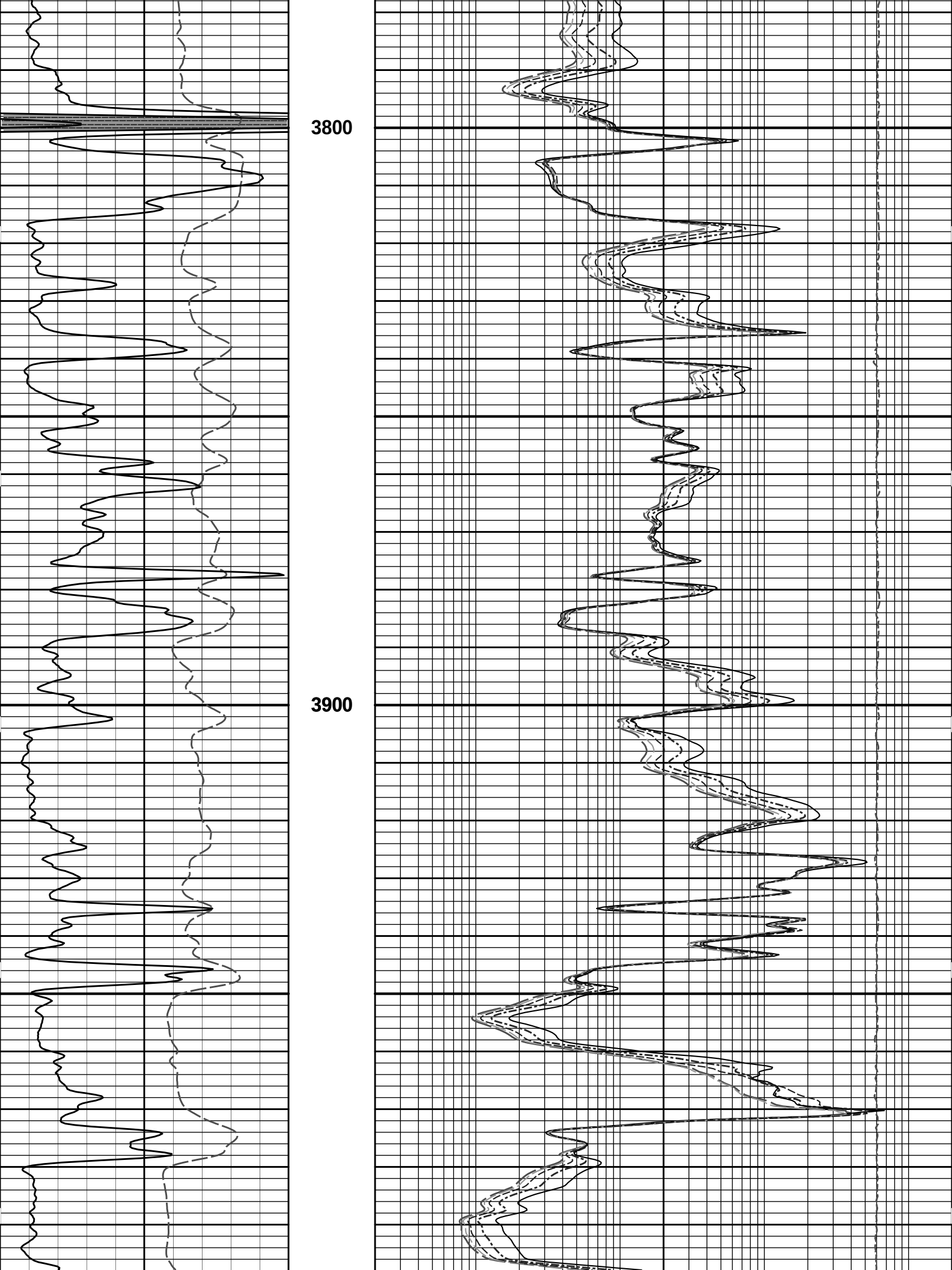
0 **Gamma API** 150
api
SP
-]20[+

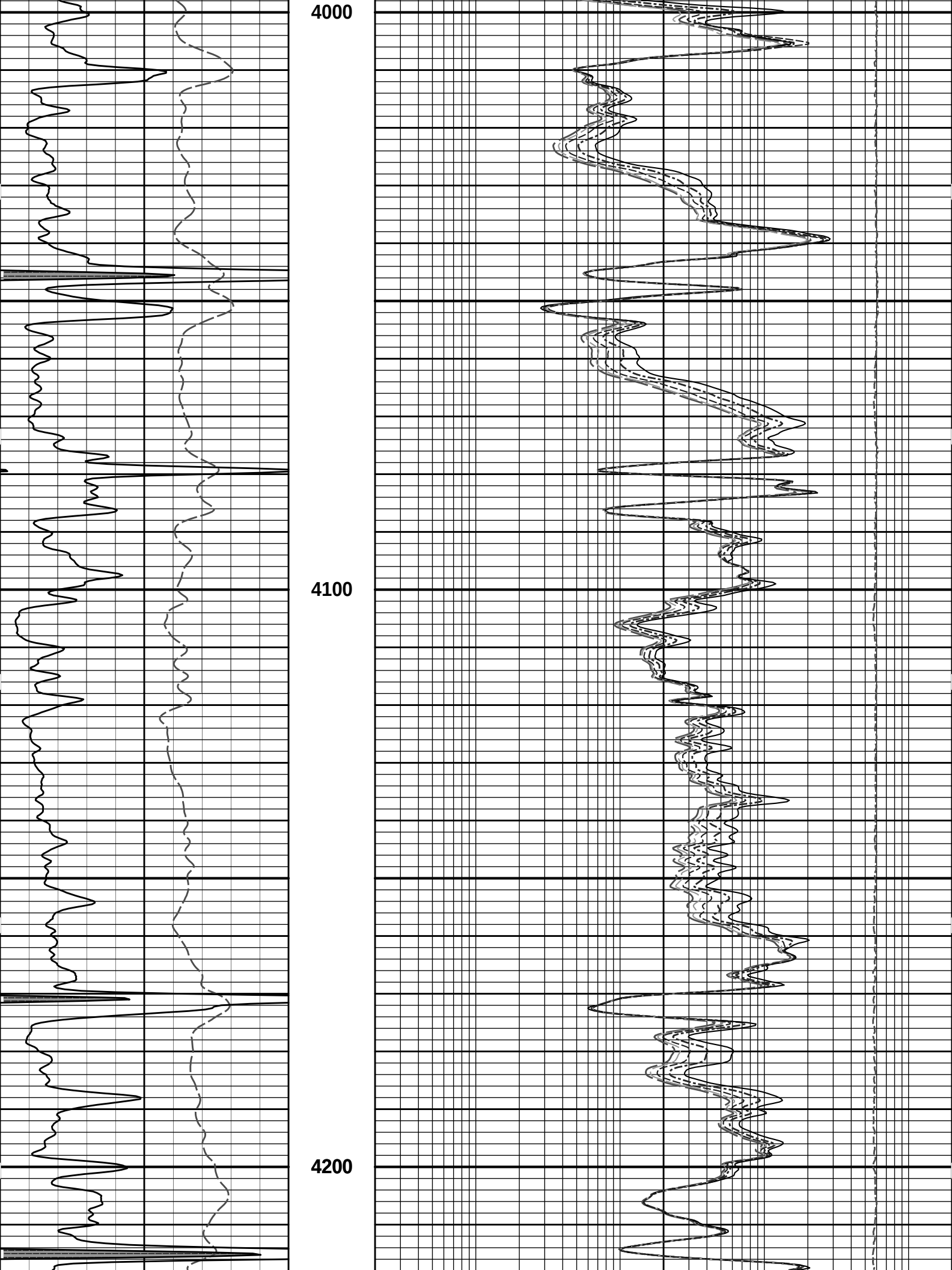
Tension Pull 10 0

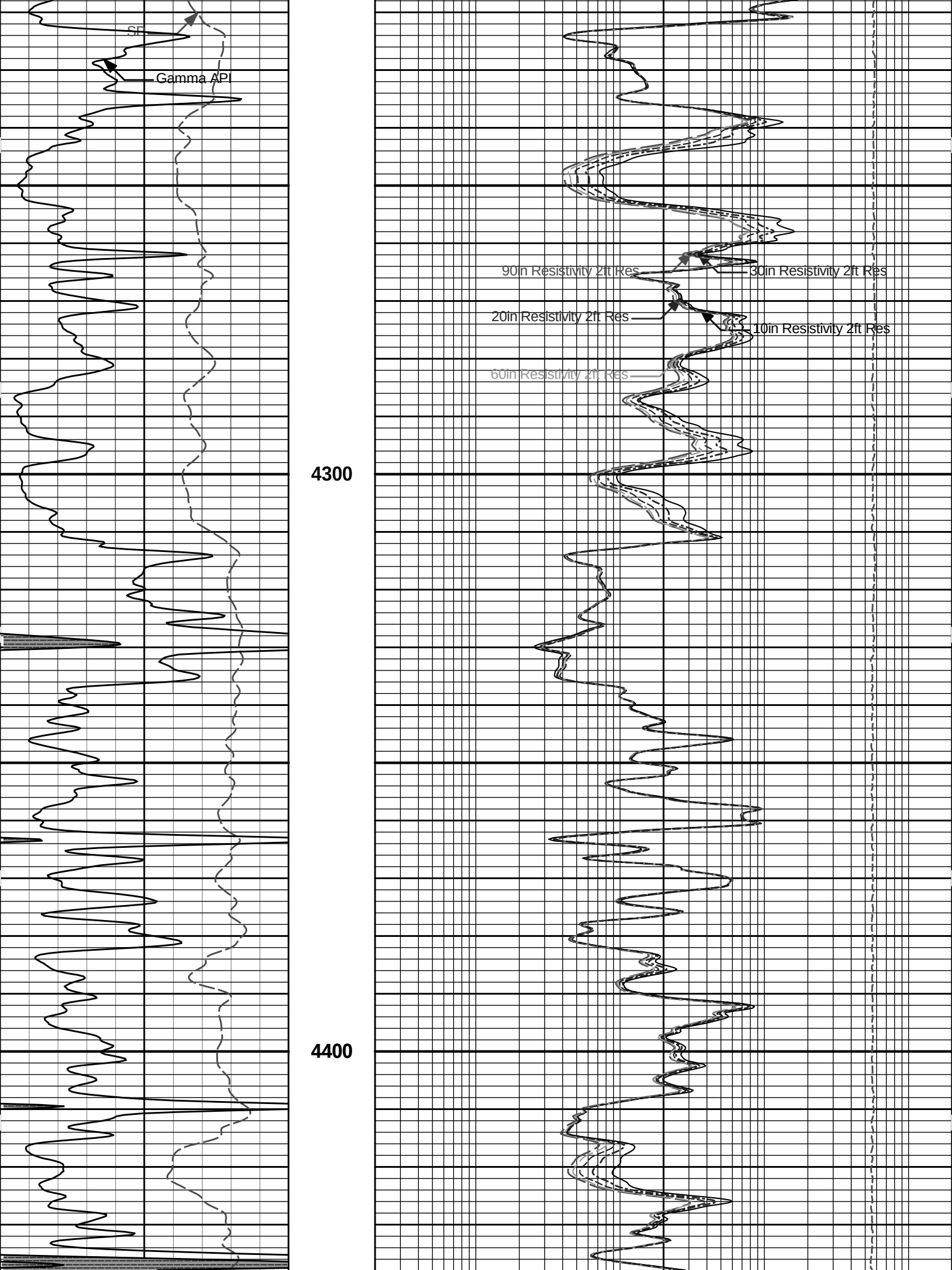
1 : 240 ft

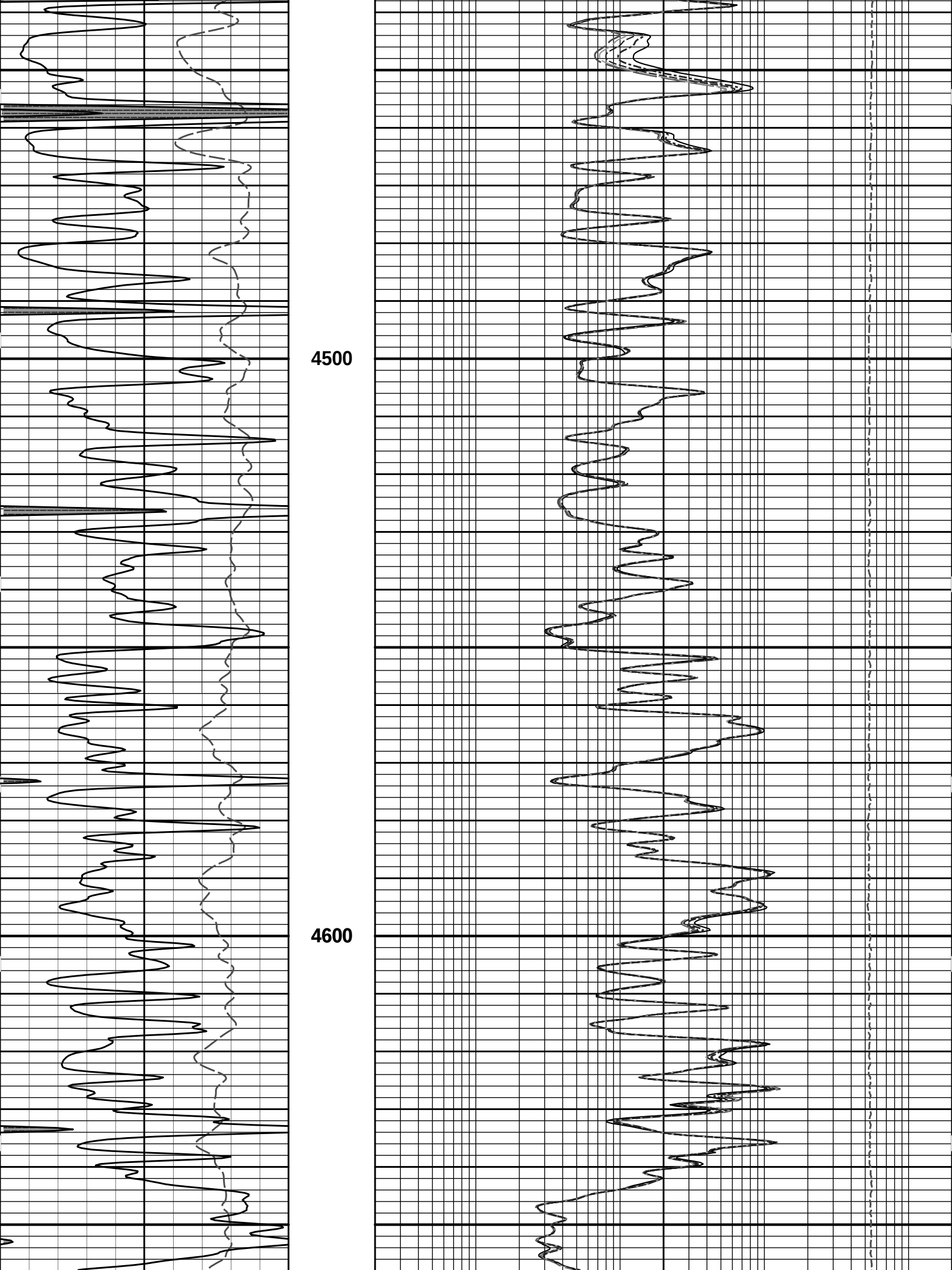
10K **Tension** 0
pounds

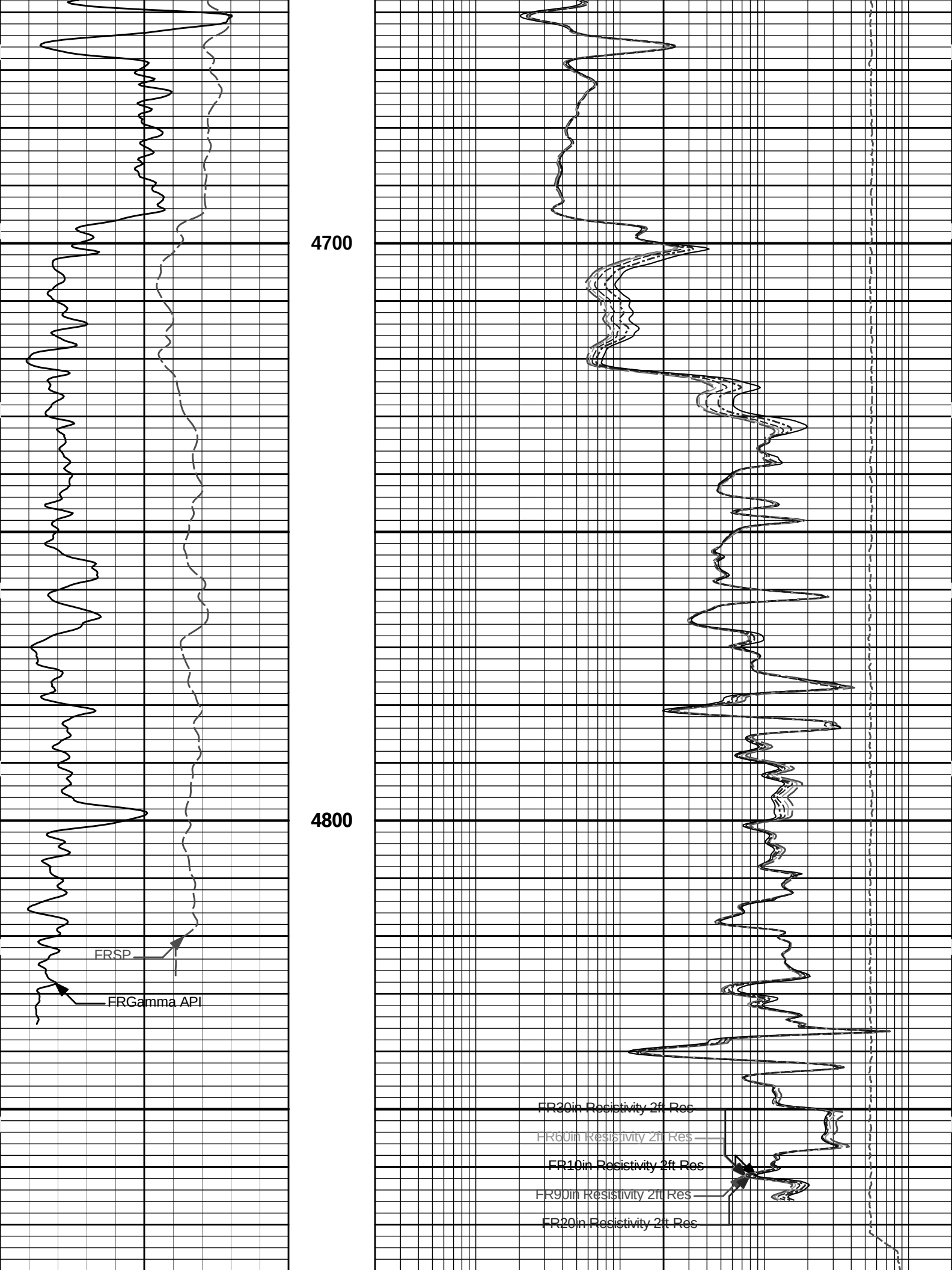

3600
SP
Gamma API
90in Resistivity 2ft Res
20in Resistivity 2ft Res
10in Resistivity 2ft Res
60in Resistivity 2ft Res
3700

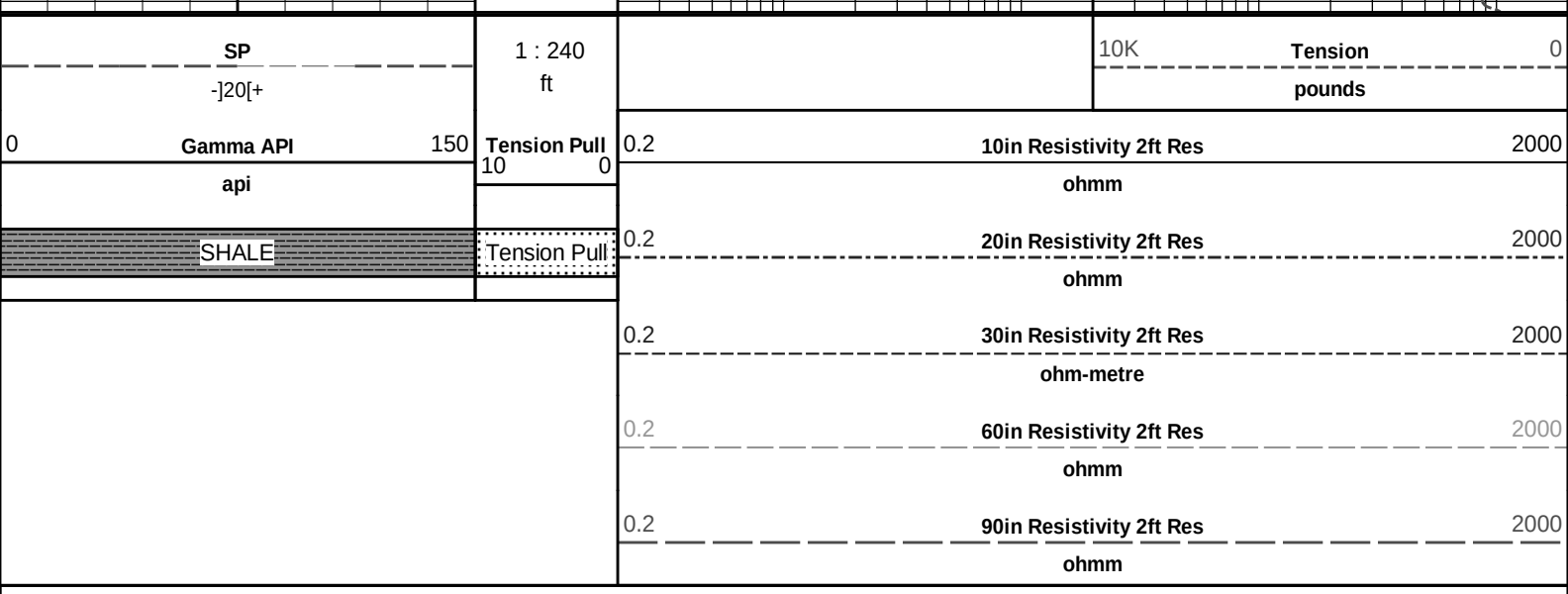

3800
3900


4000
4100
4200


SP
Gamma API
90in Resistivity 2ft Res
30in Resistivity 2ft Res
20in Resistivity 2ft Res
10in Resistivity 2ft Res
60in Resistivity 2ft Res
4300
4400


4500
4600


4700
4800
FRSP
FRGamma API
FR30in Resistivity 2ft Res
FR60in Resistivity 2ft Res
FR10in Resistivity 2ft Res
FR90in Resistivity 2ft Res
FR20in Resistivity 2ft Res



HALLIBURTON

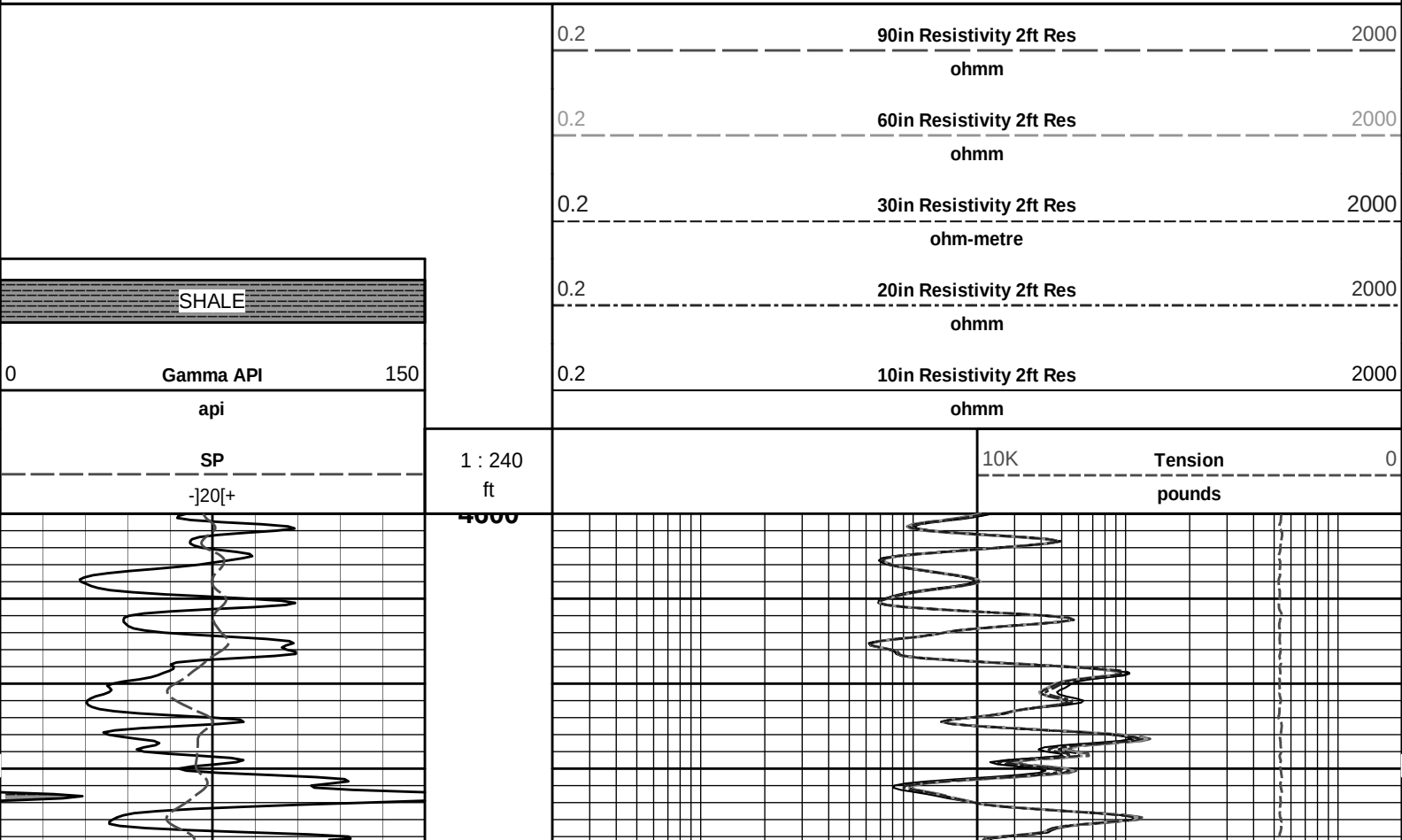
Plot Time: 10-Aug-11 12:22:46
Plot Range: 3550 ft to 4879.17 ft
Data: DAMME_41_A\Well Based\DAQ-0001-003
Plot File: \\-LOCAL-\DAMME_41_A\Well Based\ACRT\ACRT_5_main_lib

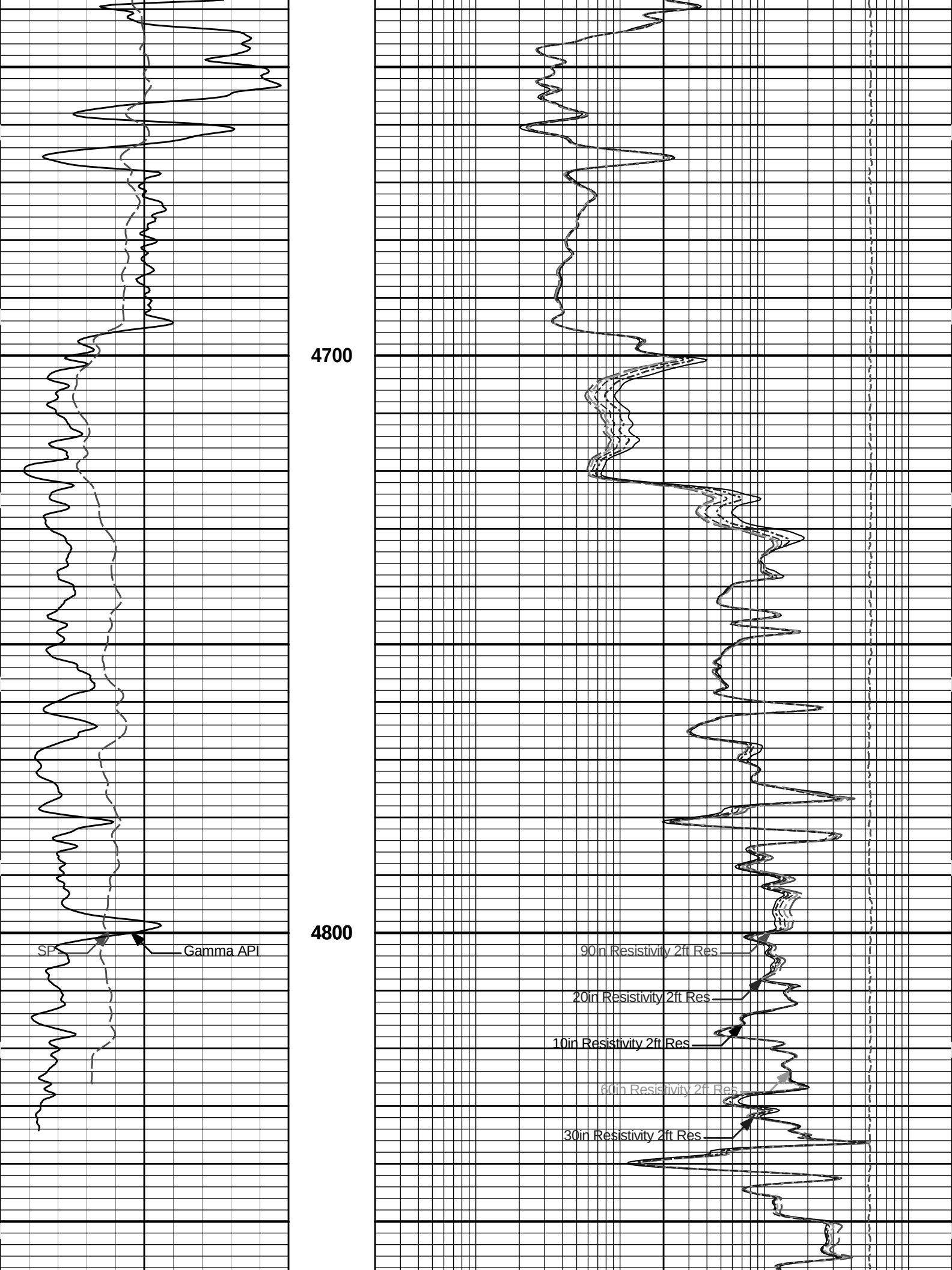
5 INCH MAIN LOG

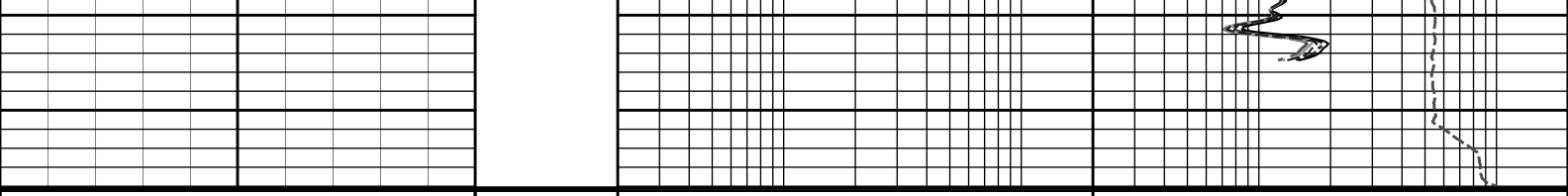
HALLIBURTON

Plot Time: 10-Aug-11 12:22:47
Plot Range: 4600 ft to 4878.17 ft
Data: DAMME_41_A\Well Based\DAQ-0001-002
Plot File: \\-LOCAL-\DAMME_41_A\Well Based\ACRT\ACRT_5_repeat_lib

REPEAT SECTION




4700
4800
SP
Gamma API
90in Resistivity 2ft Res
20in Resistivity 2ft Res
10in Resistivity 2ft Res
60in Resistivity 2ft Res
30in Resistivity 2ft Res



SP	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

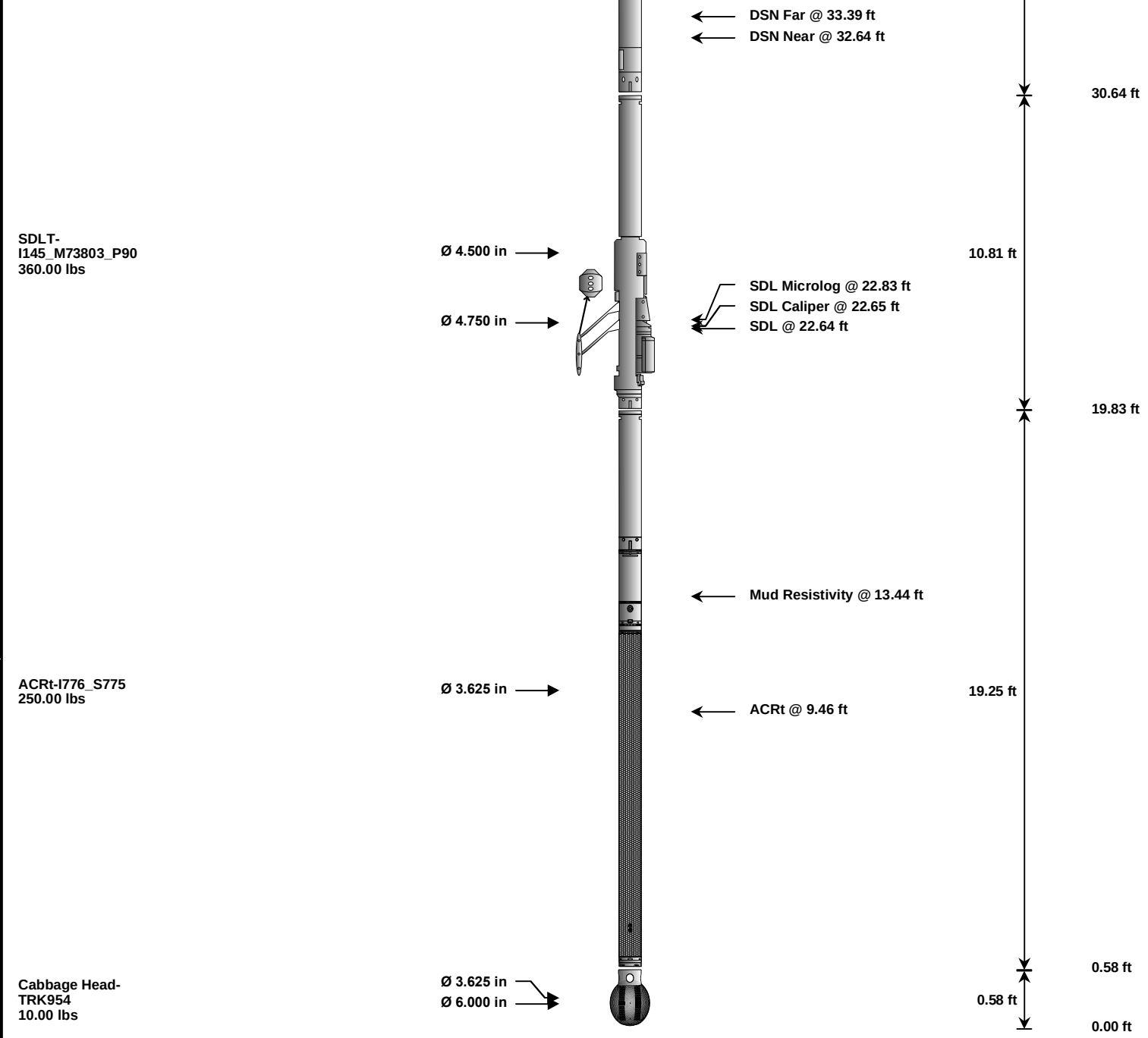
Plot Time: 10-Aug-11 12:22:50
Plot Range: 4600 ft to 4878.17 ft
Data: DAMME_41_A\Well Based\DAQ-0001-002
Plot File: \\-LOCAL-\DAMME_41_A\Well Based\ACRT\ACRT_5_repeat_lib

REPEAT SECTION

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
						54.51 ft
Cable Head-PROT01 30.00 lbs		Ø 3.625 in			1.92 ft	
						52.59 ft
SP Sub-TRK954 60.00 lbs		Ø 3.625 in		SP @ 50.81 ft	3.74 ft	
						48.85 ft
GTET-10748374 165.00 lbs		Ø 3.625 in		GammaRay @ 42.79 ft	8.52 ft	
						40.33 ft
DSNT-10735145 174.00 lbs	DSN Decentralizer-11005605 6.60 lbs	Ø 3.625 in* Ø 3.625 in			9.69 ft	



Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
CH	Standard OH Cable Head	PROT01	30.00	1.92	52.59	300.00
SP	SP Sub	TRK954	60.00	3.74	48.85	300.00
GTET	Gamma Telemetry Tool	10748374	165.00	8.52	40.33	60.00
DSNT	Dual Spaced Neutron	10735145	174.00	9.69	30.64	60.00
DCNT	DSN Decentralizer	11005605	6.60	5.13	* 33.97	300.00
SDLT	Spectral Density Tool	I145_M73803_P90	360.00	10.81	19.83	60.00
ACRt	Array Compensated True Resistivity	I776_S775	250.00	19.25	0.58	300.00
CBHD	Cabbage Head	TRK954	10.00	0.58	0.00	300.00
Total			**1,055.60**	**54.51**		

* Not included in Total Length and Length Accumulation.

Data: DAMME_41_A\0001 TRIPLE COMBO\IDLE **Date: 10-Aug-11 09:37:17**

HALLIBURTON

CALIBRATION REPORT

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION

Tool Name:	**ACRt - I776_S775**	**Reference Calibration Date:**	**14-Jun-11 13:34:06**
Engineer:	**C. MARLOWE**	**Calibration Date:**	**11-Jul-11 14:07:44**
Software Version:	**WL INSITE R3.2.5 (Build 2)**	**Calibration Version:**	**1**

TYPICAL GAIN RANGE

Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.0194	1.05	0.95	1.0268	1.05	0.95	1.0295	1.05
A2 (50")	0.95	1.0240	1.05	0.95	1.0298	1.05	0.95	1.0311	1.05
A3 (29")	0.95	1.0006	1.05	0.95	1.0060	1.05	0.95	1.0058	1.05
A4 (17")	0.95	1.0192	1.05	0.95	1.0228	1.05	0.95	1.0259	1.05
A5 (10")	N/A	N/A	N/A	0.95	1.0369	1.05	0.95	1.0397	1.05
A6 (6")	N/A	N/A	N/A	0.95	1.0094	1.05	0.95	1.0120	1.05

TYPICAL SONDE OFFSET RANGE

Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	-5	-1.395	2	-6	-3.995	-2	-8	-4.054	-2
A2 (50")	-7	-2.587	-1	-6	-3.948	-2	-7	-3.982	-2
A3 (29")	-27	-13.992	-9	-9	-4.225	-3	-7	-2.518	-1
A4 (17")	-180	-103.087	-60	-45	-31.353	-15	-39	-24.284	-13
A5 (10")	N/A	N/A	N/A	-150	-121.950	-50	-80	-55.967	-10
A6 (6")	N/A	N/A	N/A	175	281.568	525	90	139.065	270

TRANSMITTER CURRENT GAIN

Signal	Lower	R	Upper
12K	0.6	0.8807	1.3
36K	1.0	1.1947	2.0
72K	1.0	1.4630	2.0

R-MUD VERIFICATION

Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
Mud Cell	0.95	0.991	1.05

CALIBRATION SUMMARY

Sensor	Shop	Field	Post	Difference	Tolerance	Units
ACRt-I776_S775						
Mud Cell	0.991	----------	----------	0.000	----------	ohm-m

Data: DAMME_41_A\0001 TRIPLE COMBO\IDLE **Date: 10-Aug-11 10:19:51**

HALLIBURTON

PARAMETERS REPORT

Depth (ft)	Tool Name	Mnemonic	Description	Value	Units
TOP					
	DSNT	DNOK	Process DSN?	No	
	SDLT	DNOK	Process Density?	No	
	SDLT	MLOK	Process MicroLog Outputs?	No	
3550.00					
	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	8.700	ppg
SHARED	WAGT	Weighting Agent	Barite	
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	0.830	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	4871.00	ft
SHARED	BHT	Bottom Hole Temperature	120.0	degF
SHARED	SVTM	Navigation and Survey Master Tool	NONE	
SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET	
SHARED	TEMM	Temperature Master Tool	NONE	
SHARED	BHSM	Borehole Size 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	
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	Centered	
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	
SDLT	DNOK	Process Density?	Yes	
SDLT	DNOK	Process Density EVR?	No	
SDLT	CB	Logging Calibration Blocks?	No	
SDLT	SPVT	SDLT Pad Temperature Valid?	Yes	
SDLT	DTWN	Disable temperature warning	No	
SDLT	DMA	Formation Density Matrix	2.710	g/cc
SDLT	DFL	Formation Density Fluid	1.000	g/cc
SDLT	CLOK	Process Caliper Outputs?	Yes	
SDLT	MLOK	Process MicroLog Outputs?	Yes	
ACRt	RTOK	Process ACRt?	Yes	
ACRt	MNSO	Minimum Tool Standoff	1.50	in
ACRt	TCS1	Temperature Correction Source	FP Lwr & FP Upr	
ACRt	TPOS	Tool Position	Free Hanging	
ACRt	RMOP	Rmud Source	Mud Cell	
ACRt	RMIN	Minimum Resistivity for MAP	0.20	ohmm

ACRt	RMIN	Maximum Resistivity for MAP	200.00	ohmm
ACRt	THQY	Threshold Quality	0.50	

BOTTOM

HALLIBURTON

INPUTS, DELAYS AND FILTERS TABLE

Mnemonic	Input Description	Delay (ft)	Filter Type	Filter Length (ft)
	Depth Panel			
TENS	Tension	0.00	NO	
	SP Sub			
PLTC	Plot Control Mask	50.81	NO	
SP	Spontaneous Potential	50.81	BLK	1.250
SPR	Raw Spontaneous Potential	50.81	NO	
SPO	Spontaneous Potential Offset	50.81	NO	
	GTET			
TPUL	Tension Pull	42.79	NO	
GR	Natural Gamma Ray API	42.79	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	42.79	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	42.79	W	1.416 , 0.750
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	
	DSNT			
TPUL	Tension Pull	32.54	NO	
RNDS	Near Detector Telemetry Counts	32.64	BLK	1.417
RFDS	Far Detector Telemetry Counts	33.39	TRI	0.583
DNTT	DSN Tool Temperature	32.64	NO	
DSNS	DSN Tool Status	32.54	NO	
ERND	Near Detector Telemetry Counts EVR	32.64	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	33.39	BLK	0.000
ENTM	DSN Tool Temperature EVR	32.64	NO	
	SDLT			
TPUL	Tension Pull	22.64	NO	
NAB	Near Above	22.46	BLK	0.920
NHI	Near Cesium High	22.46	BLK	0.920
NLO	Near Cesium Low	22.46	BLK	0.920
NVA	Near Valley	22.46	BLK	0.920
NBA	Near Barite	22.46	BLK	0.920
NDE	Near Density	22.46	BLK	0.920
NPK	Near Peak	22.46	BLK	0.920
NLI	Near Lithology	22.46	BLK	0.920
NBAU	Near Barite Unfiltered	22.46	BLK	0.250
NLIU	Near Lithology Unfiltered	22.46	BLK	0.250
FAB	Far Above	22.81	BLK	0.250
FHI	Far Cesium High	22.81	BLK	0.250
FLO	Far Cesium Low	22.81	BLK	0.250
FVA	Far Valley	22.81	BLK	0.250

FBA	Far Barite	22.81	BLK	0.250
FDE	Far Density	22.81	BLK	0.250
FPK	Far Peak	22.81	BLK	0.250
FLI	Far Lithology	22.81	BLK	0.250
PTMP	Pad Temperature	22.65	BLK	0.920
NHV	Near Detector High Voltage	19.83	NO	
FHV	Far Detector High Voltage	19.83	NO	
ITMP	Instrument Temperature	19.83	NO	
DDHV	Detector High Voltage	19.83	NO	
TPUL	Tension Pull	22.65	NO	
PCAL	Pad Caliper	22.65	TRI	0.250
ACAL	Arm Caliper	22.65	TRI	0.250
TPUL	Tension Pull	22.83	NO	
MINV	Microlog Lateral	22.83	BLK	0.750
MNOR	Microlog Normal	22.83	BLK	0.750

ACRt				
TPUL	Tension Pull	2.97	NO	
F1R1	ACRT 12KHz - 80in R value	9.22	BLK	0.000
F1X1	ACRT 12KHz - 80in X value	9.22	BLK	0.000
F1R2	ACRT 12KHz - 50in R value	6.72	BLK	0.000
F1X2	ACRT 12KHz - 50in X value	6.72	BLK	0.000
F1R3	ACRT 12KHz - 29in R value	5.22	BLK	0.000
F1X3	ACRT 12KHz - 29in X value	5.22	BLK	0.000
F1R4	ACRT 12KHz - 17in R value	4.22	BLK	0.000
F1X4	ACRT 12KHz - 17in X value	4.22	BLK	0.000
F1R5	ACRT 12KHz - 10in R value	3.72	BLK	0.000
F1X5	ACRT 12KHz - 10in X value	3.72	BLK	0.000
F1R6	ACRT 12KHz - 6in R value	3.47	BLK	0.000
F1X6	ACRT 12KHz - 6in X value	3.47	BLK	0.000
F2R1	ACRT 36KHz - 80in R value	9.22	BLK	0.000
F2X1	ACRT 36KHz - 80in X value	9.22	BLK	0.000
F2R2	ACRT 36KHz - 50in R value	6.72	BLK	0.000
F2X2	ACRT 36KHz - 50in X value	6.72	BLK	0.000
F2R3	ACRT 36KHz - 29in R value	5.22	BLK	0.000
F2X3	ACRT 36KHz - 29in X value	5.22	BLK	0.000
F2R4	ACRT 36KHz - 17in R value	4.22	BLK	0.000
F2X4	ACRT 36KHz - 17in X value	4.22	BLK	0.000
F2R5	ACRT 36KHz - 10in R value	3.72	BLK	0.000
F2X5	ACRT 36KHz - 10in X value	3.72	BLK	0.000
F2R6	ACRT 36KHz - 6in R value	3.47	BLK	0.000
F2X6	ACRT 36KHz - 6in X value	3.47	BLK	0.000
F3R1	ACRT 72KHz - 80in R value	9.22	BLK	0.000
F3X1	ACRT 72KHz - 80in X value	9.22	BLK	0.000
F3R2	ACRT 72KHz - 50in R value	6.72	BLK	0.000
F3X2	ACRT 72KHz - 50in X value	6.72	BLK	0.000
F3R3	ACRT 72KHz - 29in R value	5.22	BLK	0.000
F3X3	ACRT 72KHz - 29in X value	5.22	BLK	0.000
F3R4	ACRT 72KHz - 17in R value	4.22	BLK	0.000
F3X4	ACRT 72KHz - 17in X value	4.22	BLK	0.000
F3R5	ACRT 72KHz - 10in R value	3.72	BLK	0.000
F3X5	ACRT 72KHz - 10in X value	3.72	BLK	0.000
F3R6	ACRT 72KHz - 6in R value	3.47	BLK	0.000
F3X6	ACRT 72KHz - 6in X value	3.47	BLK	0.000
RMUD	Mud Resistivity	12.76	BLK	0.000
F1RT	Transmitter Reference 12 KHz Real Signal	2.97	BLK	0.000

F1XT	Transmitter Reference 12 KHz Imaginary Signal	2.97	BLK	0.000
F2RT	Transmitter Reference 36 KHz Real Signal	2.97	BLK	0.000
F2XT	Transmitter Reference 36 KHz Imaginary Signal	2.97	BLK	0.000
F3RT	Transmitter Reference 72 KHz Real Signal	2.97	BLK	0.000
F3XT	Transmitter Reference 72 KHz Imaginary Signal	2.97	BLK	0.000
TFPU	Upper Feedpipe Temperature Calculated	2.97	BLK	0.000
TFPL	Lower Feedpipe Temperature Calculated	2.97	BLK	0.000
ITMP	Instrument Temperature	2.97	BLK	0.000
TCVA	Temperature Correction Values Loop Off	2.97	NO	
TIDV	Instrument Temperature Derivative	2.97	NO	
TUDV	Upper Temperature Derivative	2.97	NO	
TLDV	Lower Temperature Derivative	2.97	NO	
TRBD	Receiver Board Temperature	2.97	NO	

Data: DAMME_41_A\0001 TRIPLE COMBO\IDLE **Date: 10-Aug-11 10:20:20**

COMPANY	**HARTMAN OIL COMPANY, INC.**		
WELL	**DAMME #41-A**		
FIELD	**DAMME**		
COUNTY	**FINNEY**	STATE	**KANSAS**

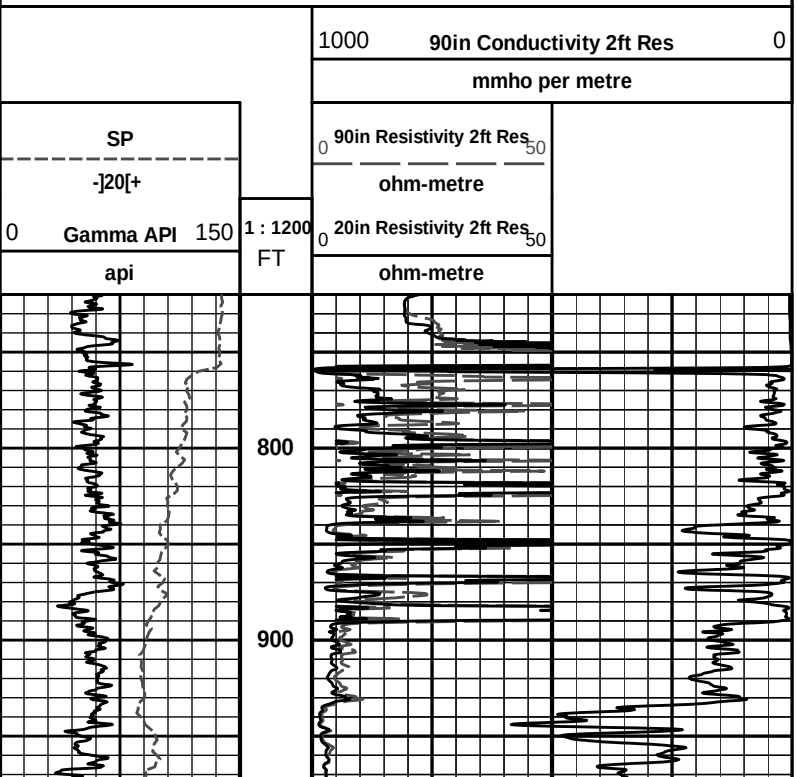
HALLIBURTON

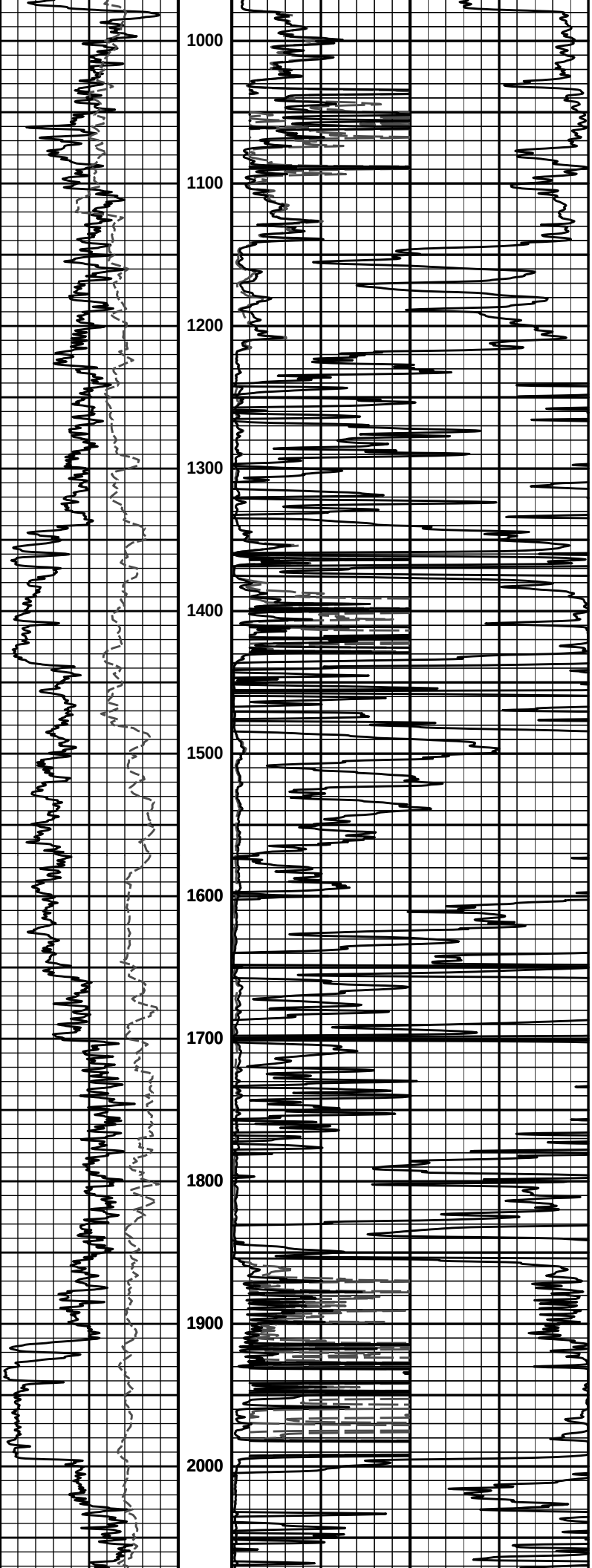
ARRAY COMPENSATED TRUE RESISTIVITY LOG

HALLIBURTON

Plot Time: 10-Aug-11 12:22:51
Plot Range: 720 ft to 4865.75 ft
Data: DAMME_41_A\Well Based\DAQ-0001-003
Plot File: \\-LOCAL-\DAMME_41_A\Well Based\ACRT\ACRT_1_lib

1 INCH MAIN LOG

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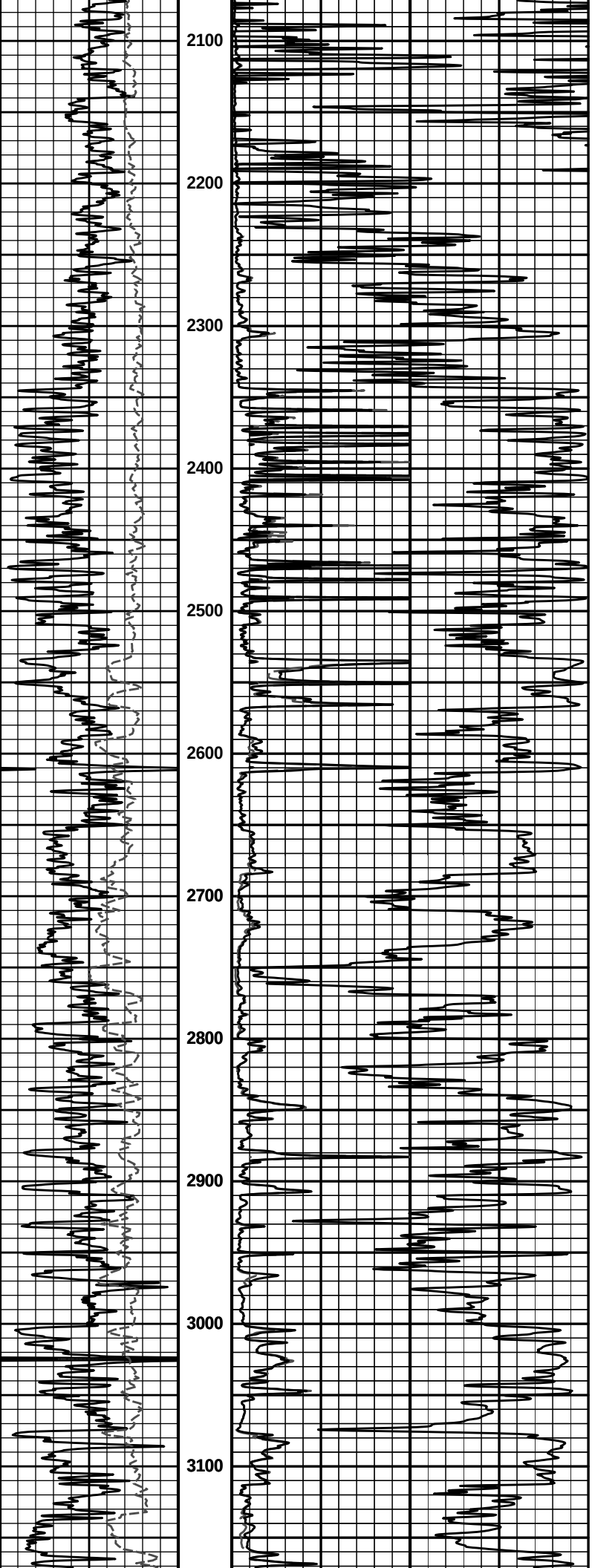
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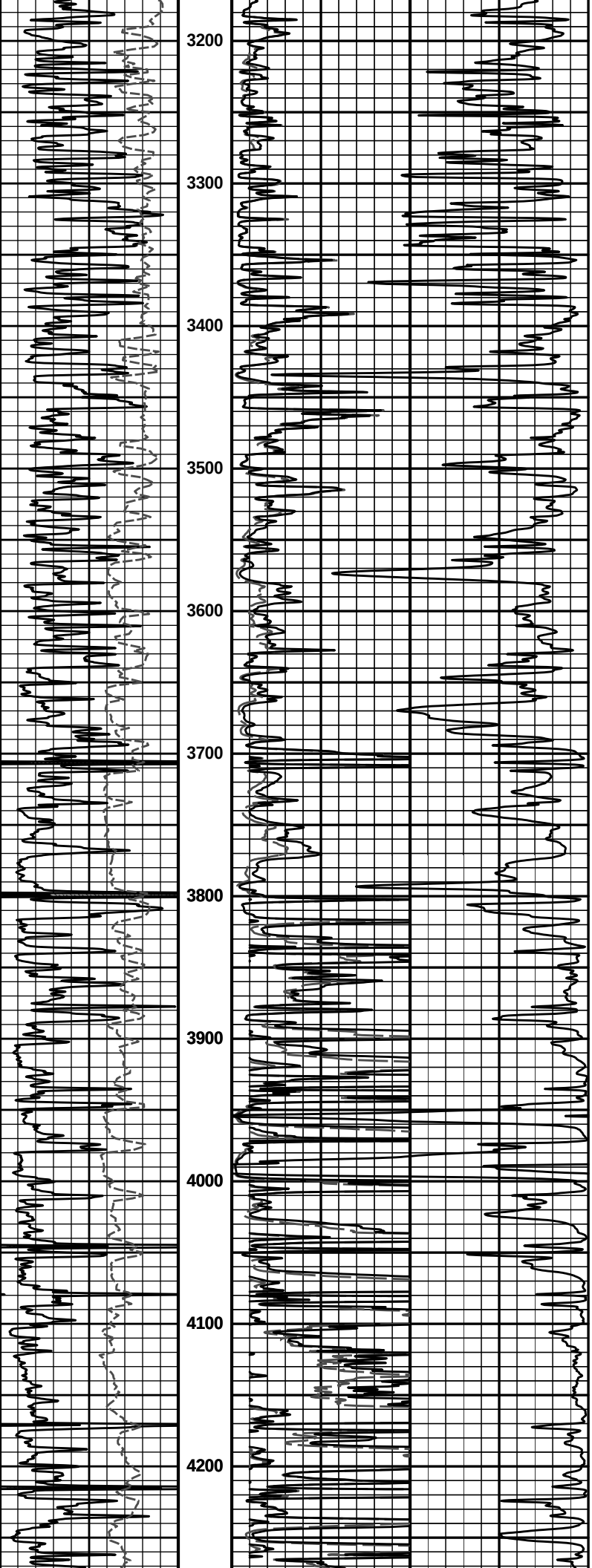
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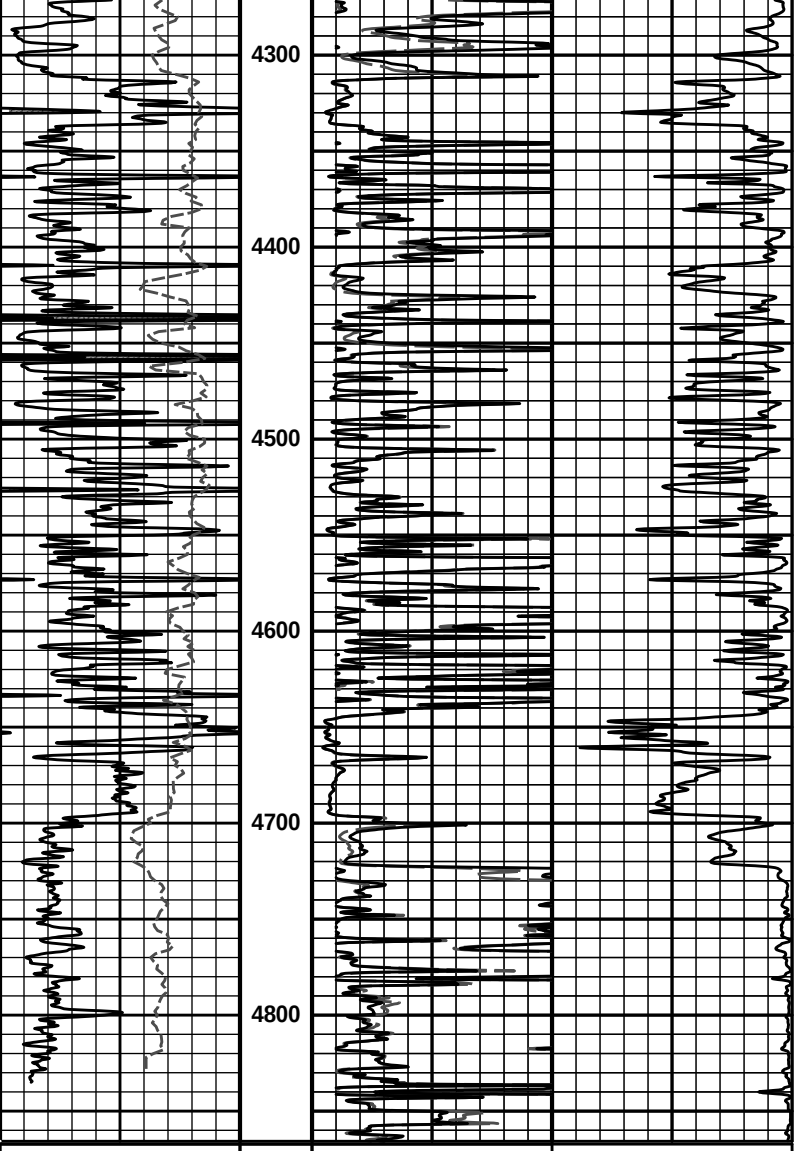

0 Gamma API 150	1 : 1200 FT	0 20in Resistivity 2ft Res 50
api		ohm-metre
SP		0 90in Resistivity 2ft Res 50
-]20[+		ohm-metre
		1000 90in Conductivity 2ft Res 0
		mmho per metre

HALLIBURTON

Plot Time: 10-Aug-11 12:22:53
Plot Range: 720 ft to 4865.75 ft
Data: DAMME_41_A\Well Based\DAQ-0001-003
Plot File: \\-LOCAL-\DAMME_41_A\Well Based\ACRT\ACRT_1_lib

1 INCH MAIN LOG