HALLIBURTON

ARRAY COMPENSATED TRUE RESISTIVITY LOG

COMPANY	**VESS OIL CORPORATION**
WELL	**McCORD A-20H**
FIELD	**BEMIS-SHUTTS**
COUNTY	**ELLIS**
STATE	**KANSAS**

COMPANY	**VESS OIL CORPORATION**		
WELL	**McCORD A-20H**		
FIELD	**BEMIS-SHUTTS**		
COUNTY	**ELLIS**	STATE	**KANSAS**
API No.	15-051-26218	Other Services:	DSNT/SDLT/ML WSTT
Location	1680' FNL & 788' FEL		
Sect. 26	Twp. 11S	Rge. 17W	

Permanent Datum	GL	Elev. 2091.0 ft	Elev.: K.B.	2100.0 ft
Log measured from	KB	, 9.0 ft above perm. Datum	D.F.	2099.0 ft
Drilling measured from	KB		G.L.	2091.0 ft

Date	11-Nov-11		
Run No.	1		
Depth - Driller	3740.00 ft		
Depth - Logger	3737.0 ft		
Bottom - Logged Interval	3728 ft^		
Top - Logged Interval	1279 ft		
Casing - Driller	9.625 in @ 1279.0 ft	@	@
Casing - Logger	1279.0 ft		
Bit Size	8.750 in	@	@
Type Fluid in Hole	WATER BASED MUD		
Density / Viscosity	9.2 ppg / 55.00 s/qt		
PH / Fluid Loss	10.50 pH / 6.4 cptm		
Source of Sample	FLOWLINE		
Rm @ Meas. Temperature	0.700 ohmm @ 78.00 degF	@	@
Rmf @ Meas. Temperature	0.60 ohmm @ 75.00 degF	@	@
Rmc @ Meas. Temperature	0.820 ohmm @ 75.00 degF	@	@
Source Rmf / Rmc	MEASURED / MEASURED		
Rm @ BHT	0.56 ohmm @ 100.0 degF	@	@
Time Since Circulation	5.8 hr		
Time on Bottom	11-Nov-11 10:44		
Max. Rec. Temperature	100.0 degF @ 3737.0 ft	@	@
Equipment / Location	10782954 / LIBERAL		
Recorded By	C. MARLOWE		
Witnessed By	R. MARTIN	M. ANDREPONT	P. CANADAY

Fold here

Service Ticket No.: 9041284 API Serial No.: 15-051-26218 PGM Version: WL INSITE R3.4.2 (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	N/A	ADJ	N/A
	I776-S775			

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	N/A	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	TD	CSG	REC	0	150									

DIRECTIONAL INFORMATION

Maximum Deviation	2100.00 deg	@	2099.00 ft	KOP	@	2091.00 ft

Remarks: ANNULAR HOLE VOLUME CALCULATED FOR 7 INCH CASING

CHLORIDES REPORTED AT 3400 PPM

GPS COORDINATES:39º04' N & 99º10' W

TODAY'S CREW: F. VILLA, A. VAQUERA

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

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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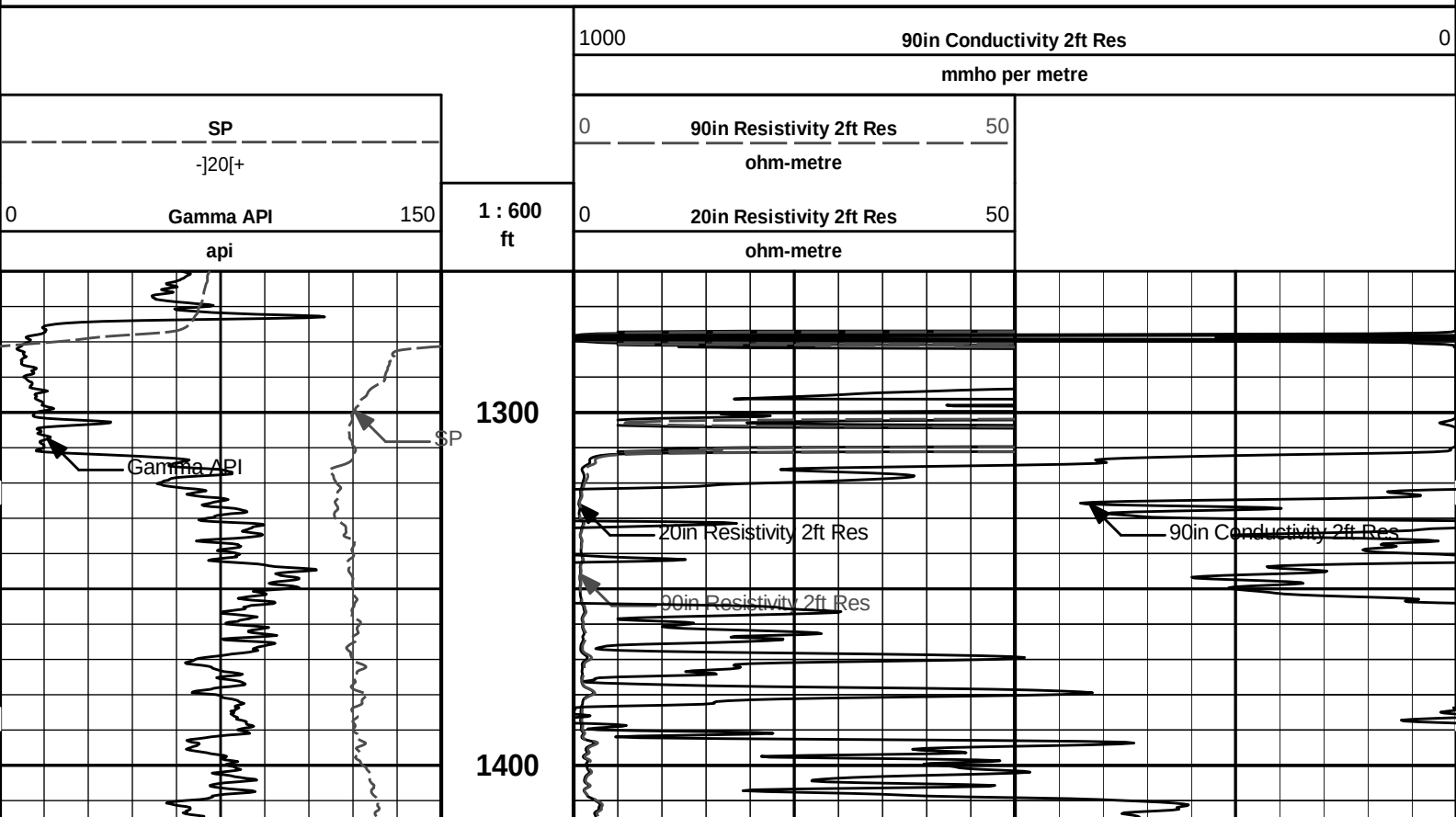
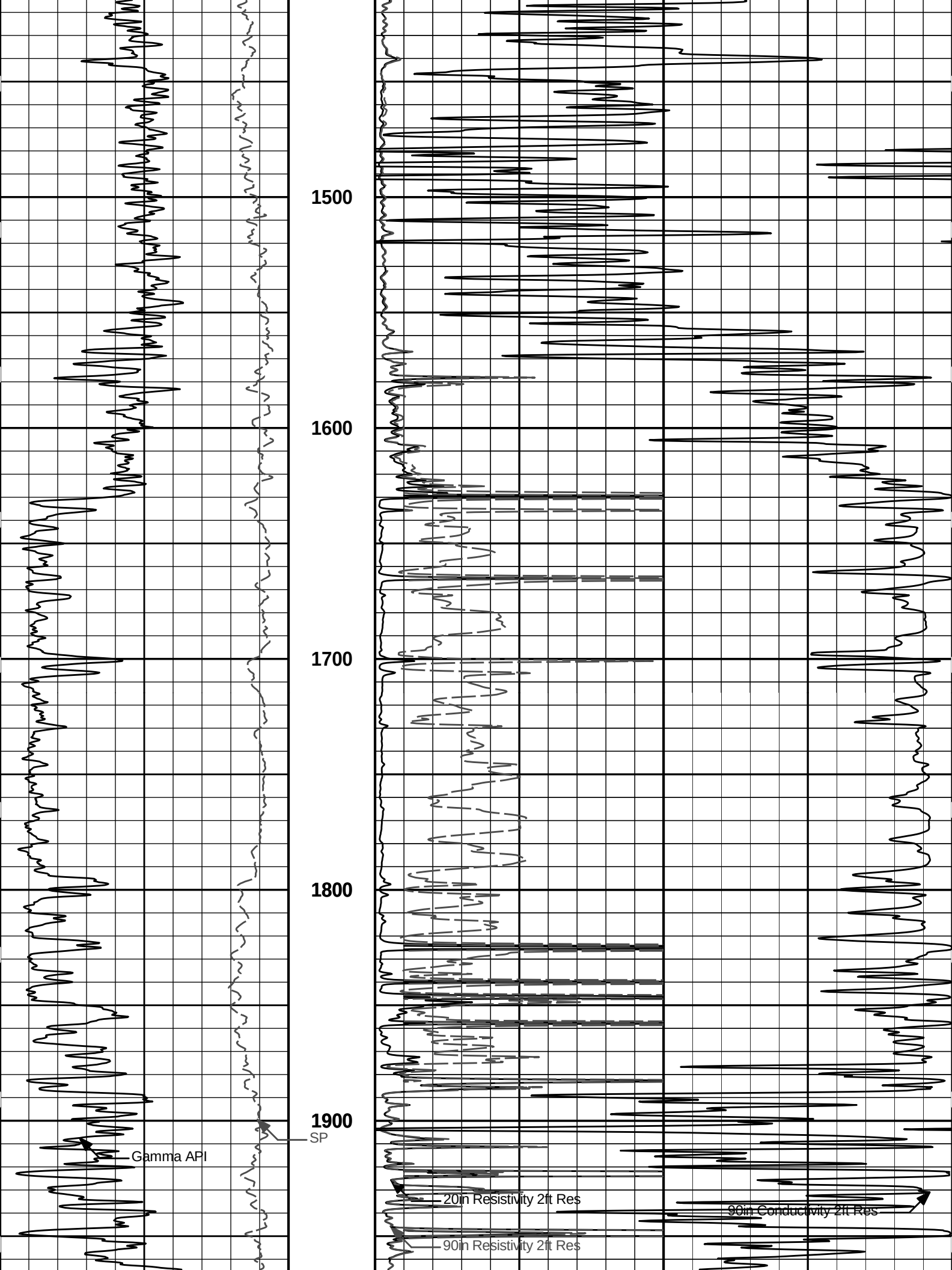
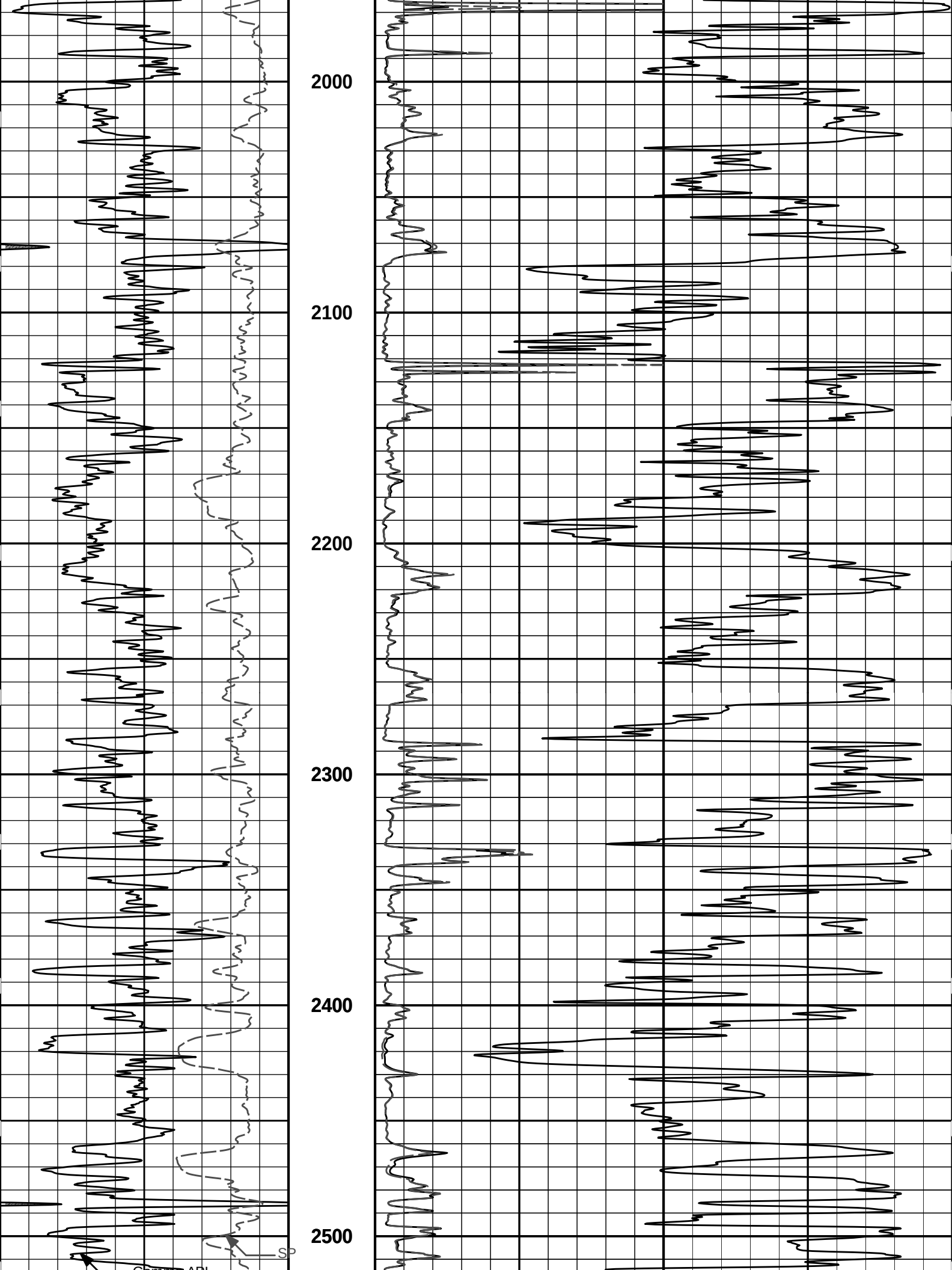
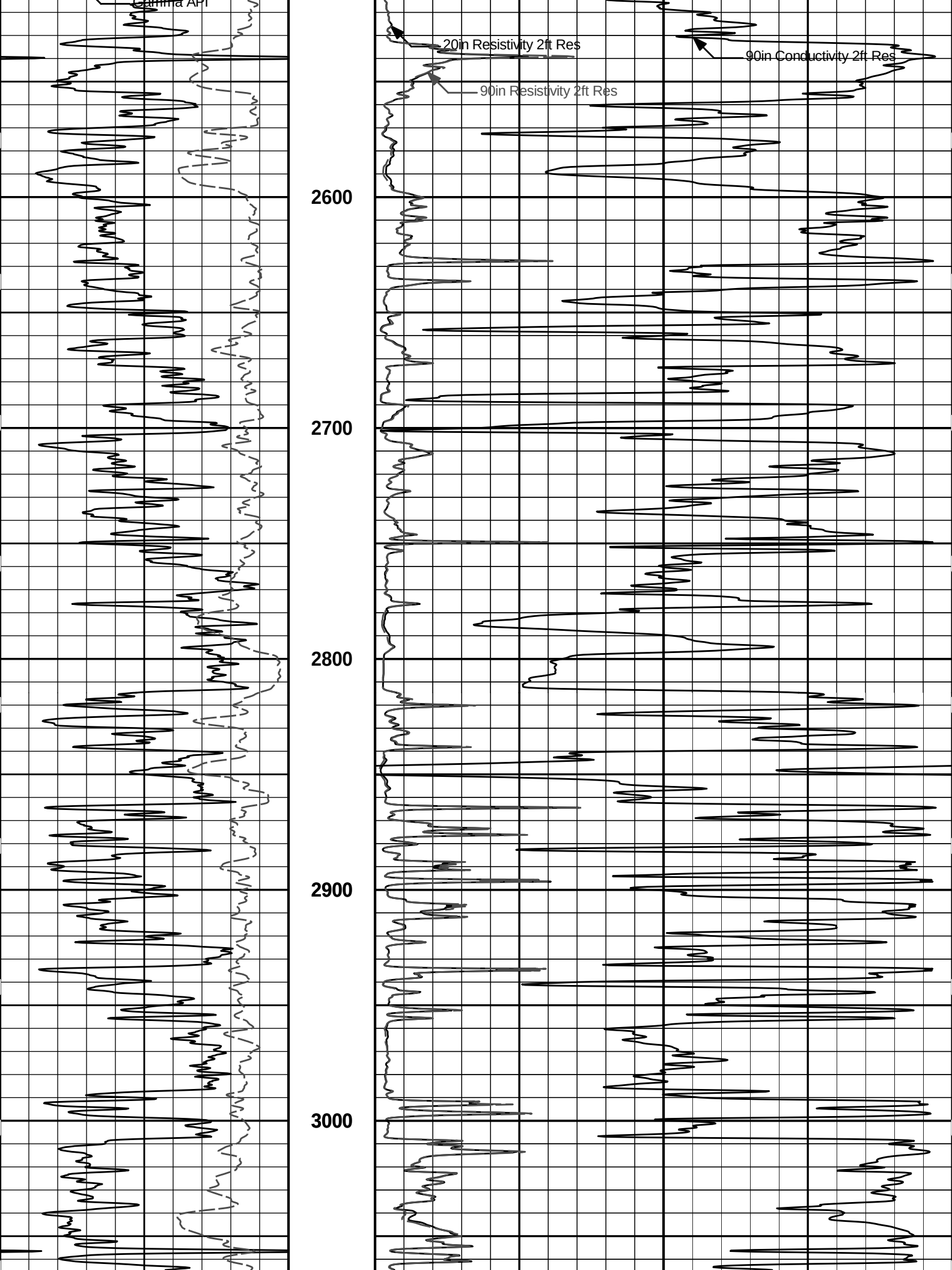
Plot Time: 11-Nov-11 15:11:05
Plot Range: 1260 ft to 3748.33 ft
Data: MCCORD_A_20H\Well Based\ACRT
Plot File: \\-LOCAL-\MCCORD_A_20H\0001 SP-GTET-FLEX-ACRT-HOLEFINDER\ACRT\ACRT_2_lib

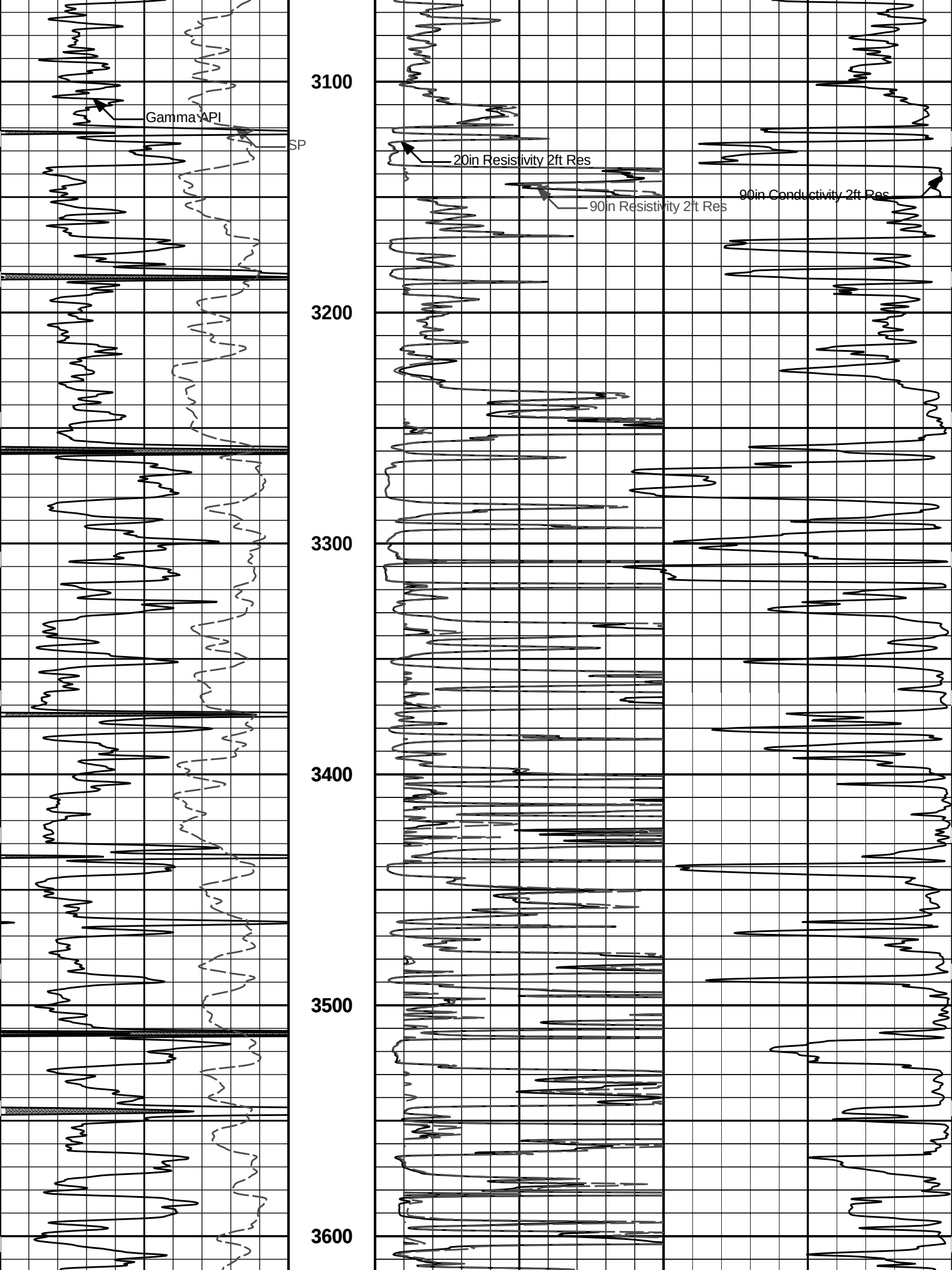
2 INCH MAIN LOG

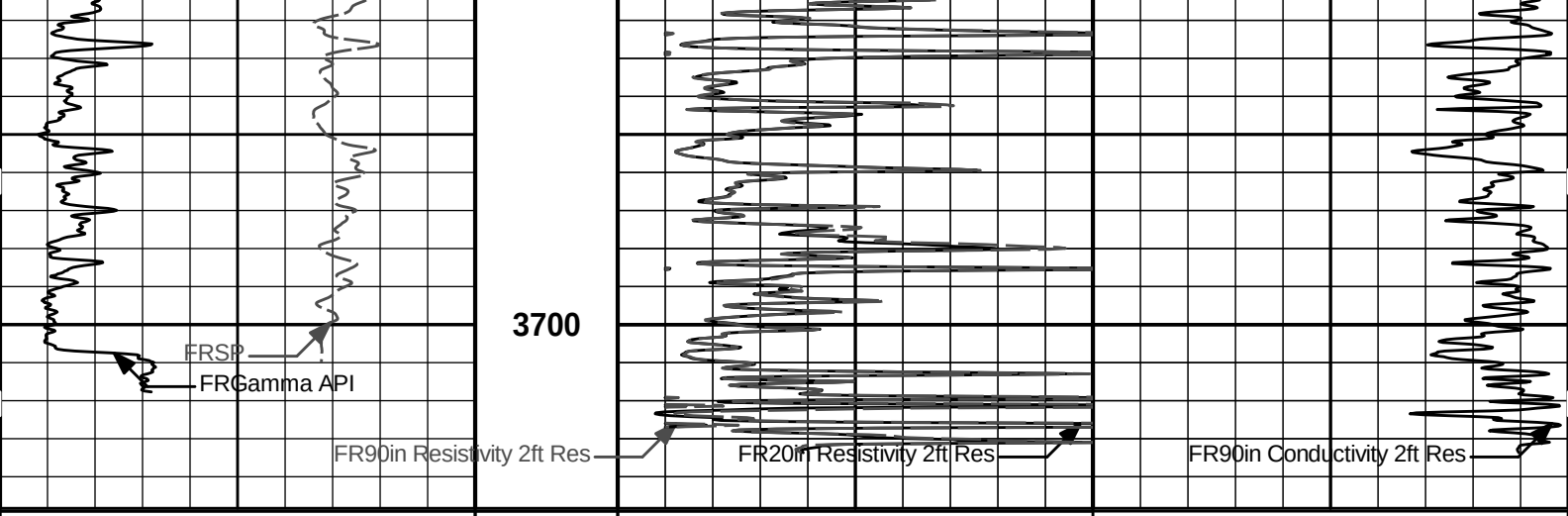



1500
1600
1700
1800
1900
SP
Gamma API
20in Resistivity 2ft Res
90in Conductivity 2ft Res
90in Resistivity 2ft Res


2000
2100
2200
2300
2400
2500
SP


Gamma API
20in Resistivity 2ft Res
90in Conductivity 2ft Res
90in Resistivity 2ft Res
2600
2700
2800
2900
3000


3100
3200
3300
3400
3500
3600
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: 11-Nov-11 15:11:20
Plot Range: 1260 ft to 3748.33 ft
Data: MCCORD_A_20H\Well Based\ACRT
Plot File: \\-LOCAL-\MCCORD_A_20H\0001 SP-GTET-FLEX-ACRT-HOLEFINDER\ACRT\ACRT_2_lib

2 INCH MAIN LOG

HALLIBURTON

Plot Time: 11-Nov-11 15:11:20
Plot Range: 1260 ft to 3748.33 ft
Data: MCCORD_A_20H\Well Based\ACRT
Plot File: \\-LOCAL-\MCCORD_A_20H\0001 SP-GTET-FLEX-ACRT-HOLEFINDER\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

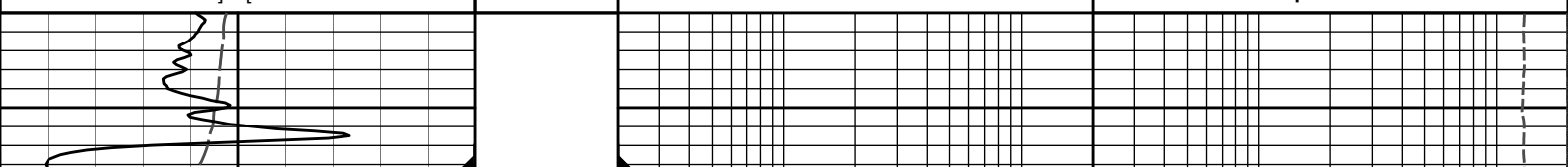
SHALE
Tension Pull

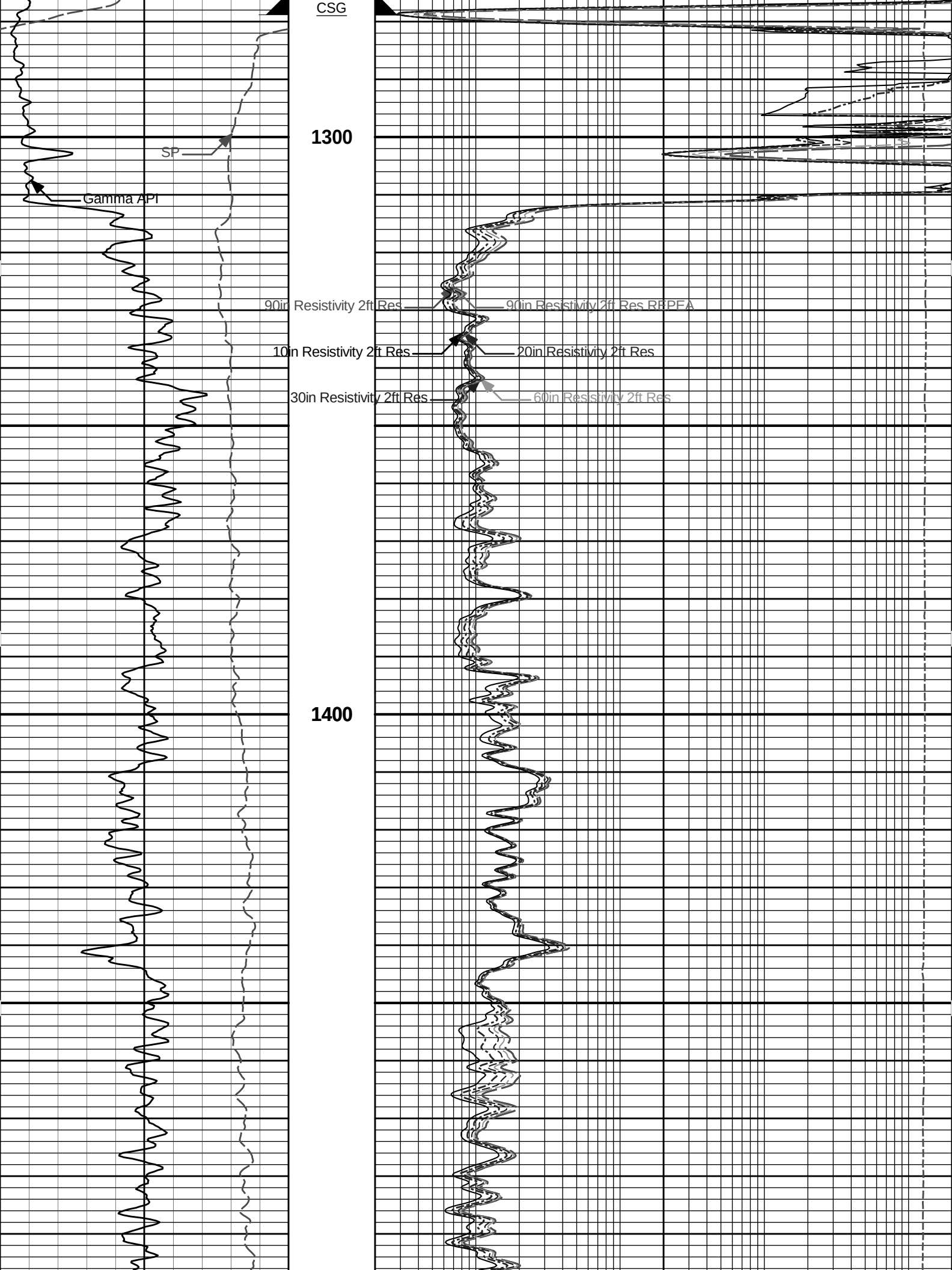
0 **Gamma API** 150
api
SP
-]20[+

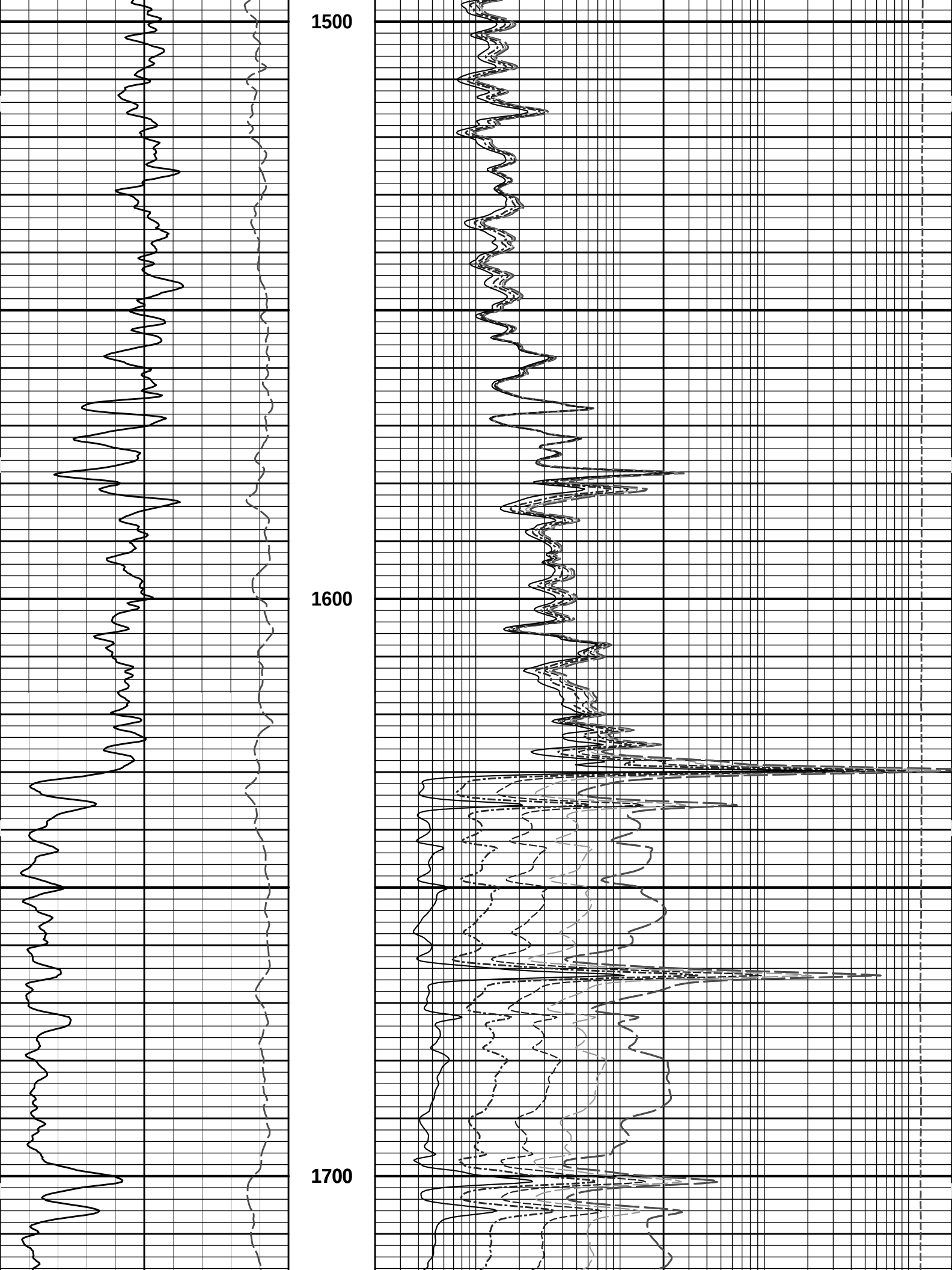
Tension Pull
10 0

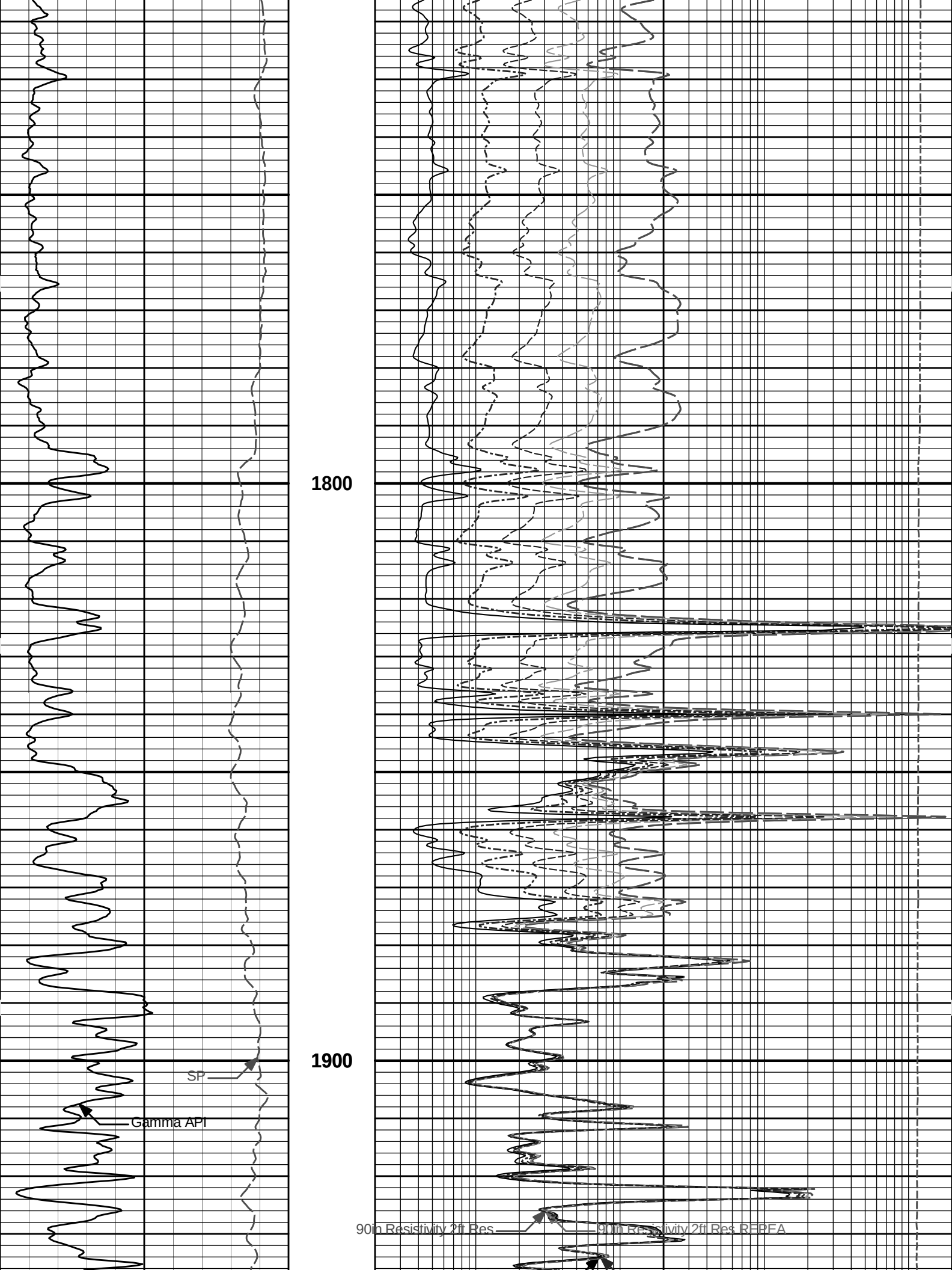
1 : 240
ft

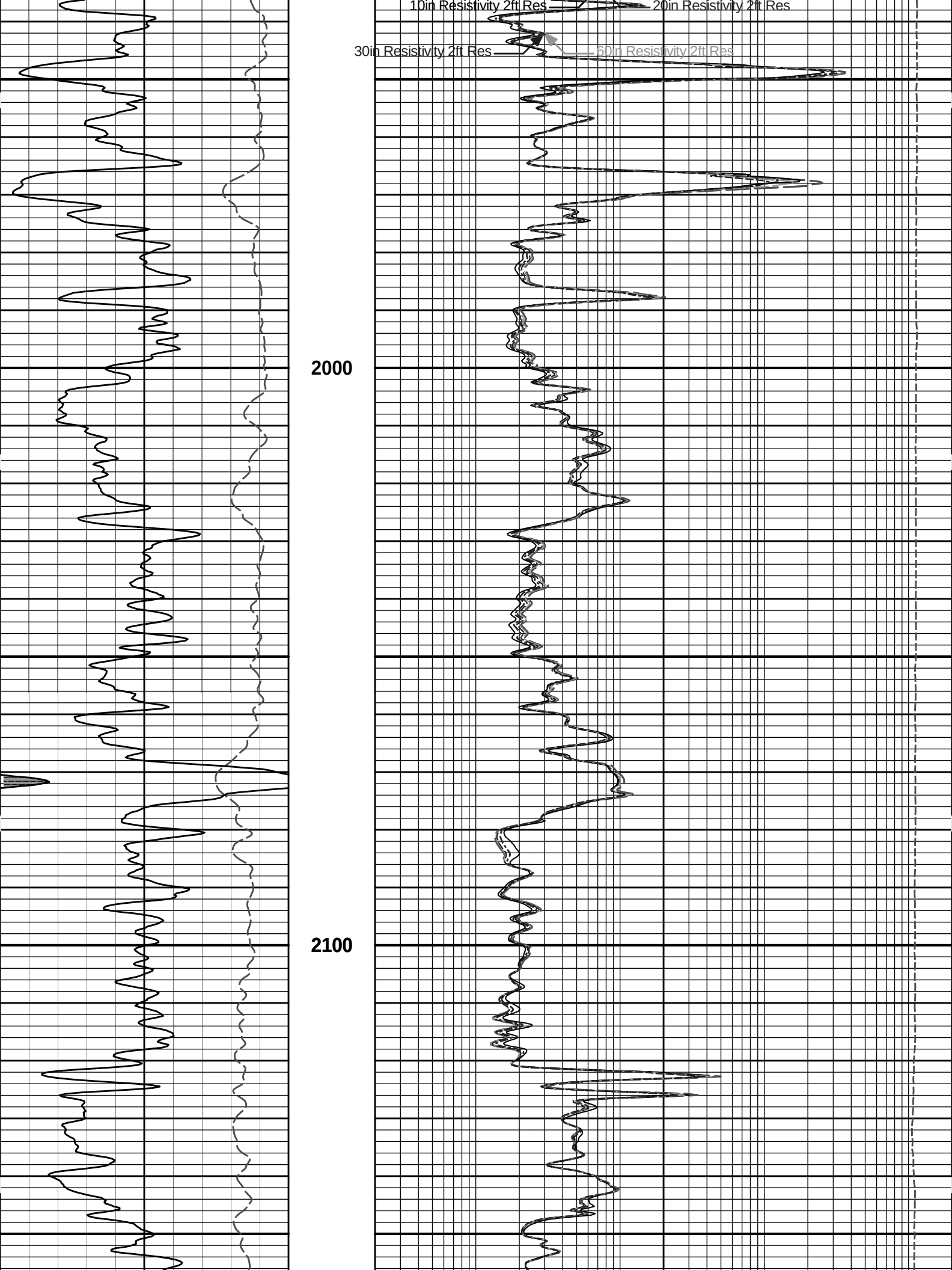
10K **Tension** 0
pounds

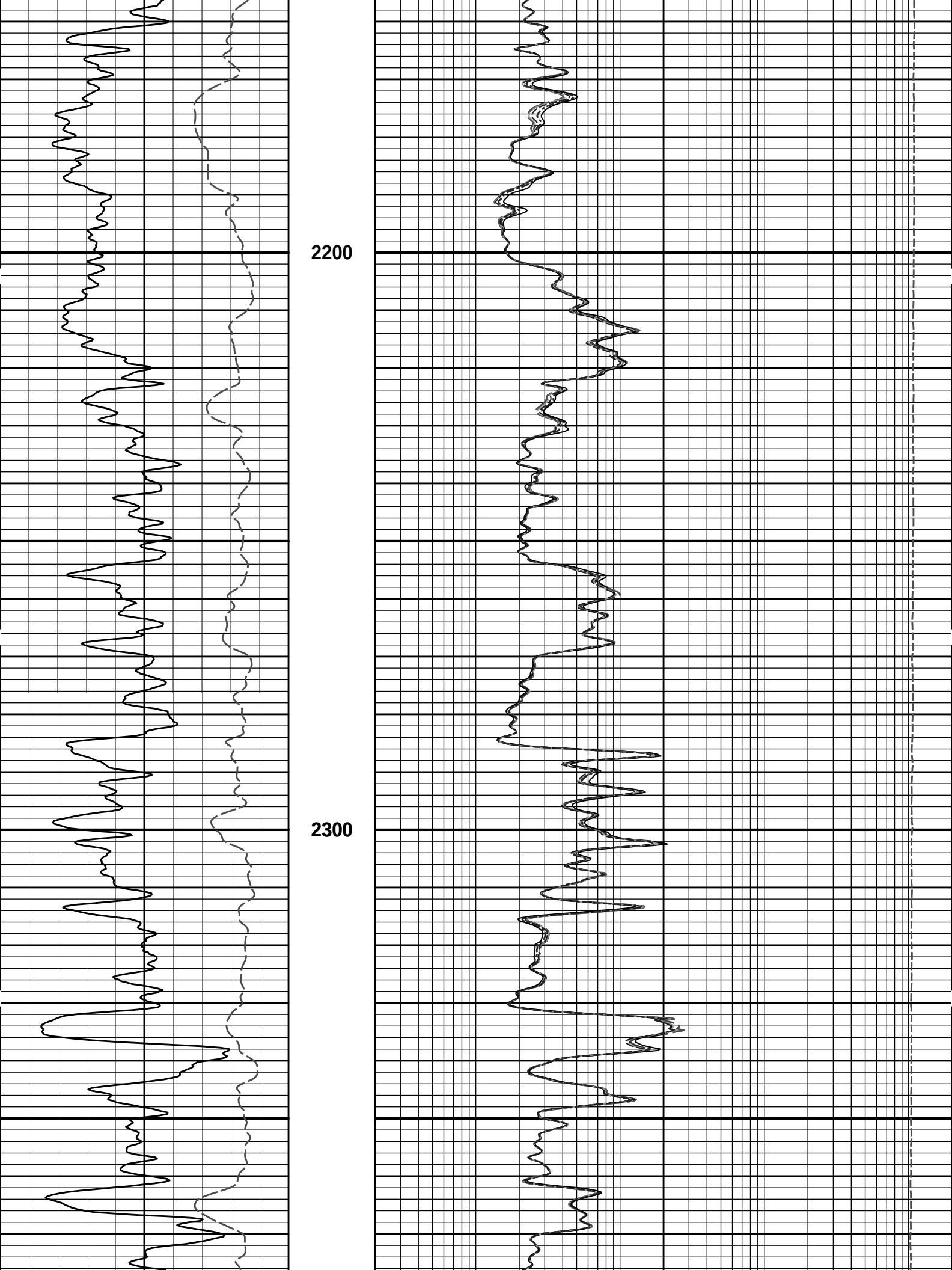


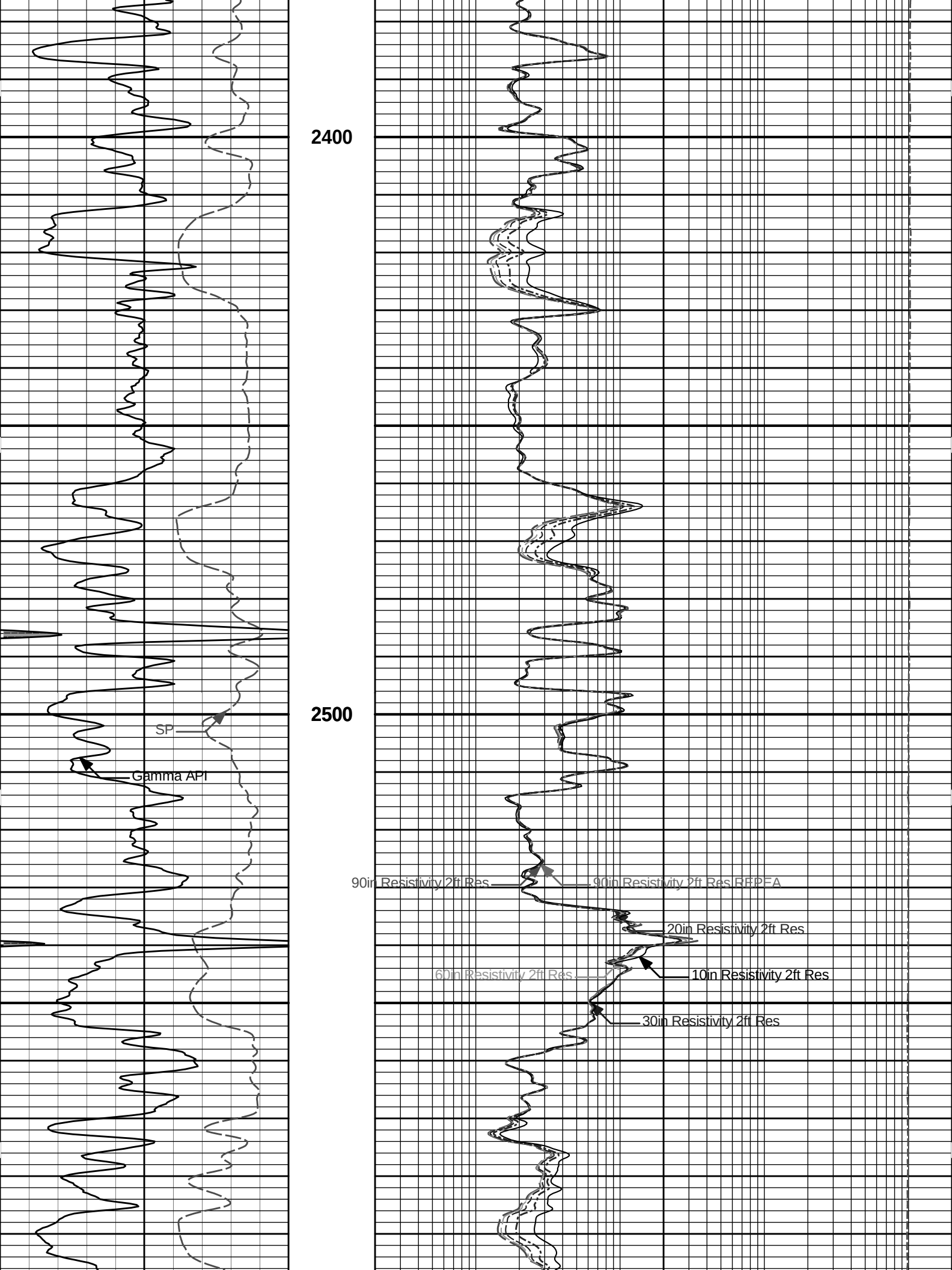

CSG
1300
SP
Gamma API
90in Resistivity 2ft Res
90in Resistivity 2ft Res RBPEA
10in Resistivity 2ft Res
20in Resistivity 2ft Res
30in Resistivity 2ft Res
60in Resistivity 2ft Res
1400

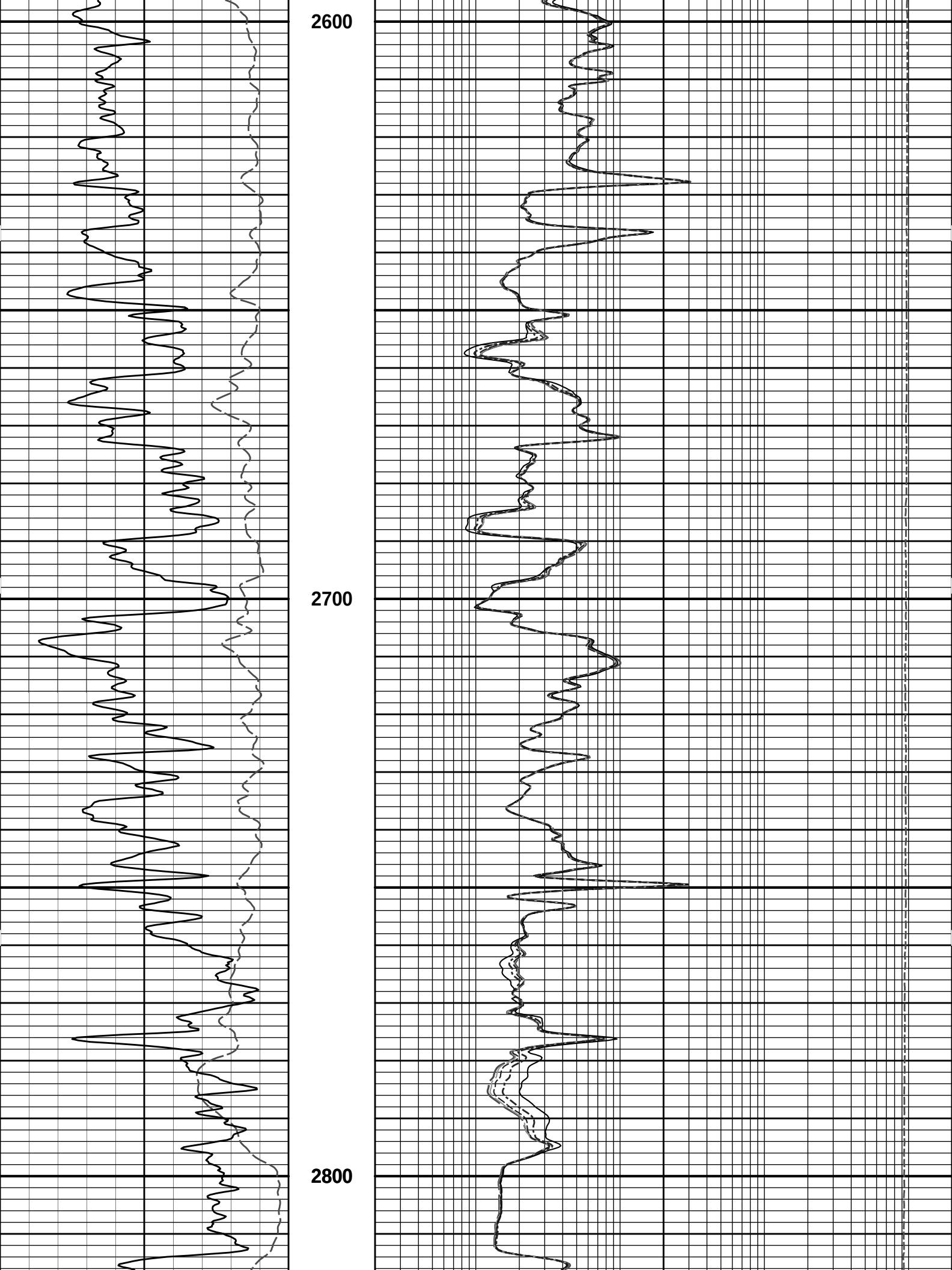

1500
1600
1700

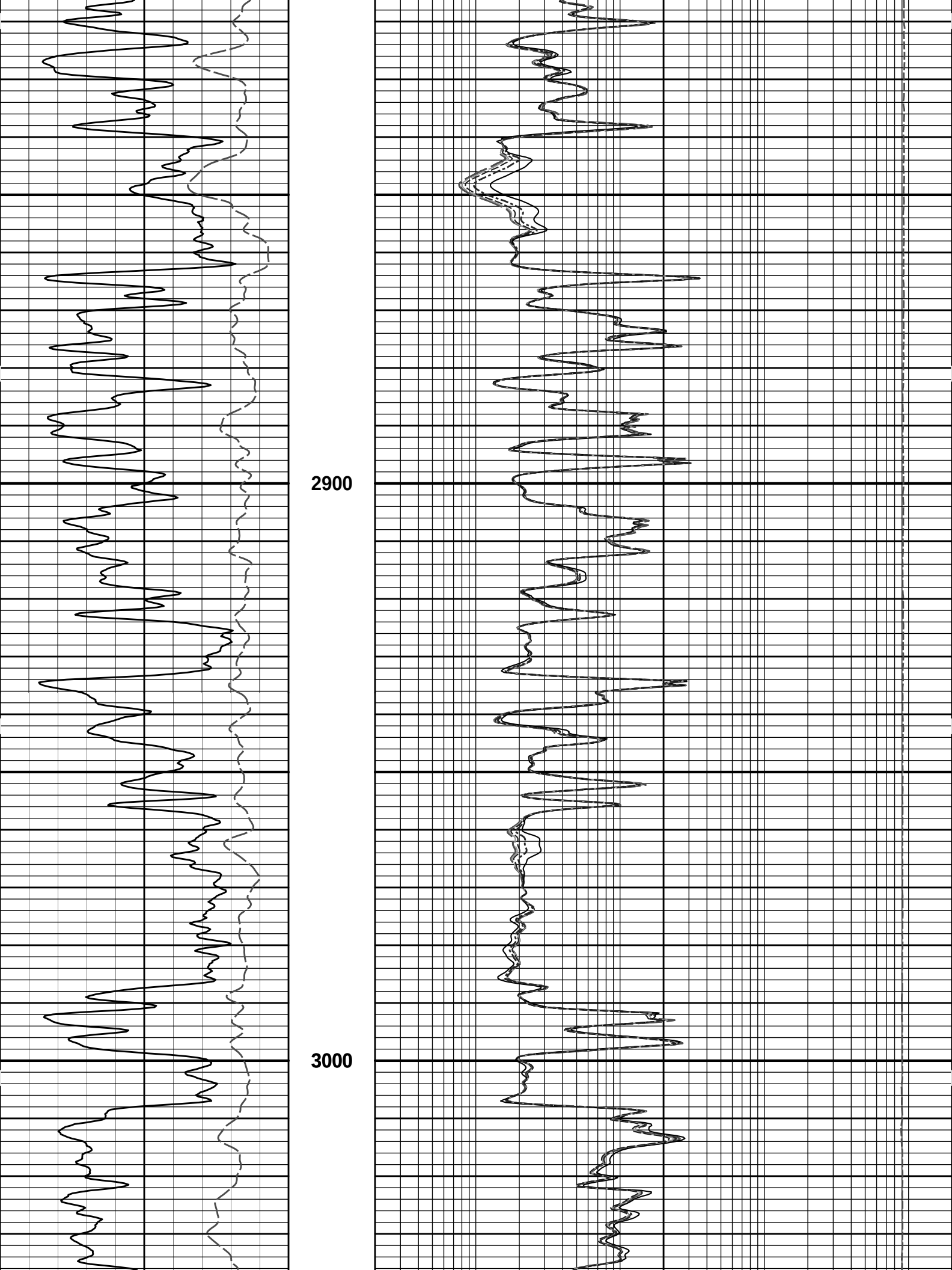

1800
1900
SP
Gamma API
90in Resistivity 2ft Res
90in Resistivity 2ft Res REPEA

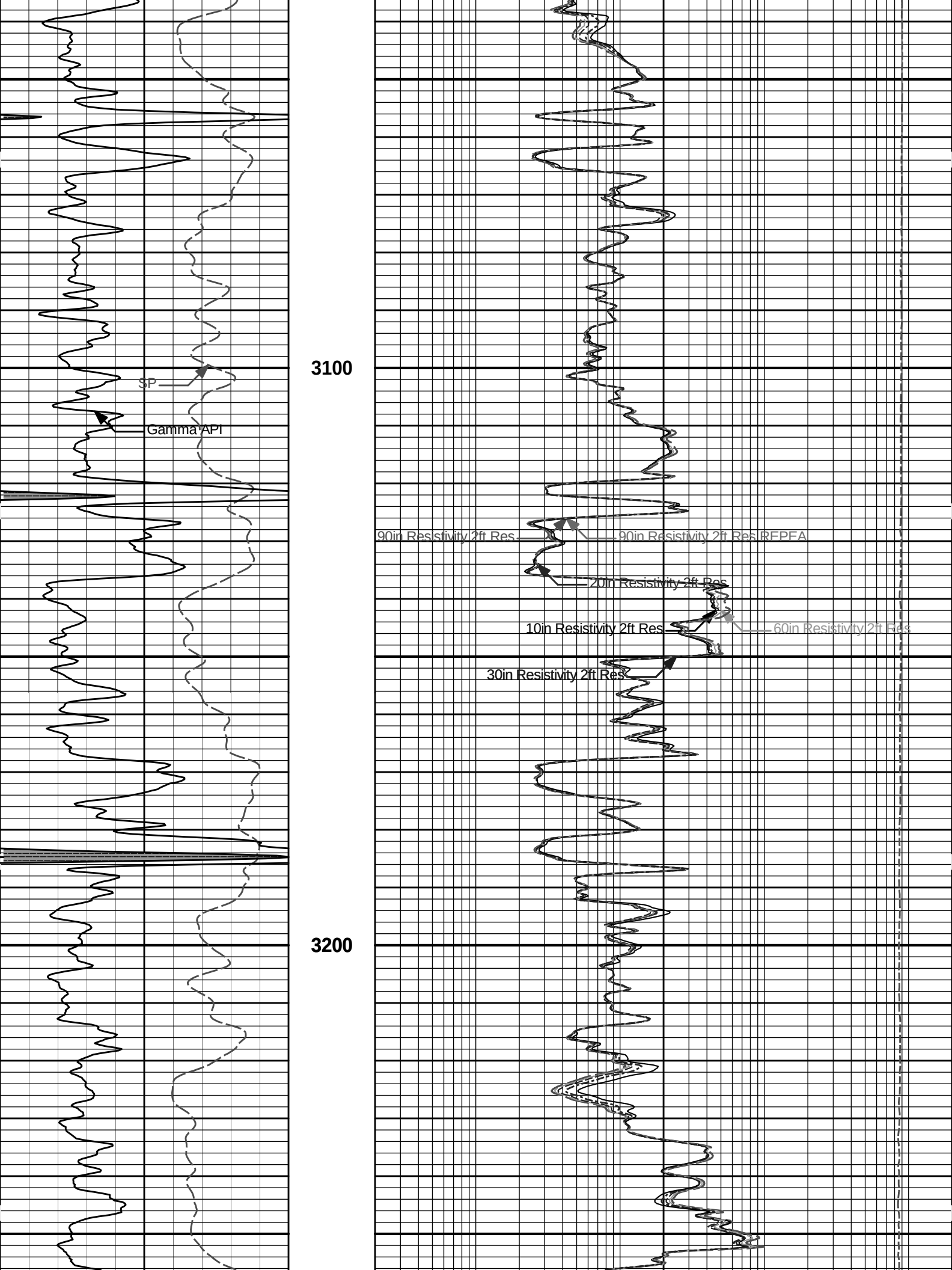

10in Resistivity 2ft Res
20in Resistivity 2ft Res
30in Resistivity 2ft Res
60in Resistivity 2ft Res
2000
2100

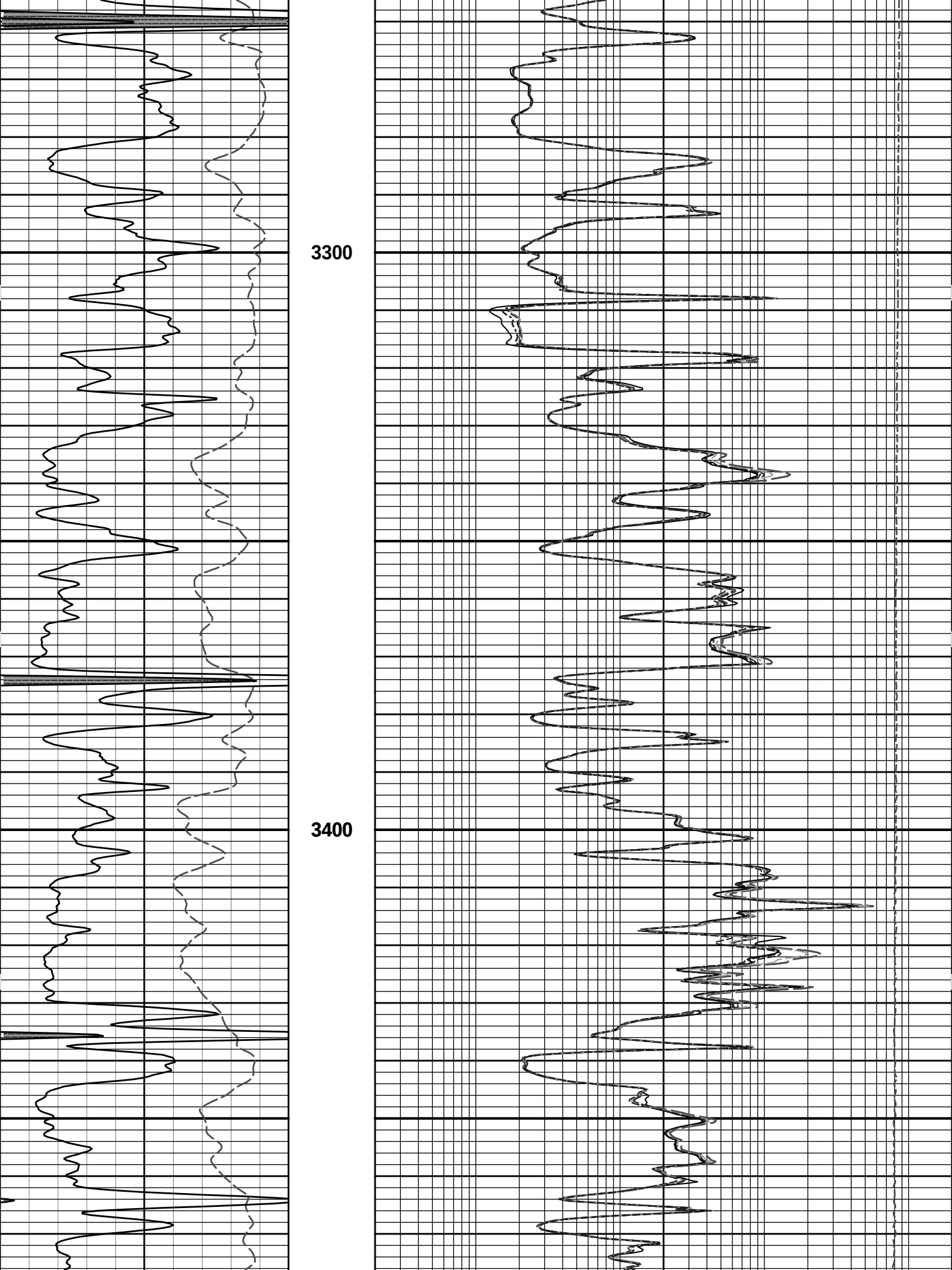

2200
2300

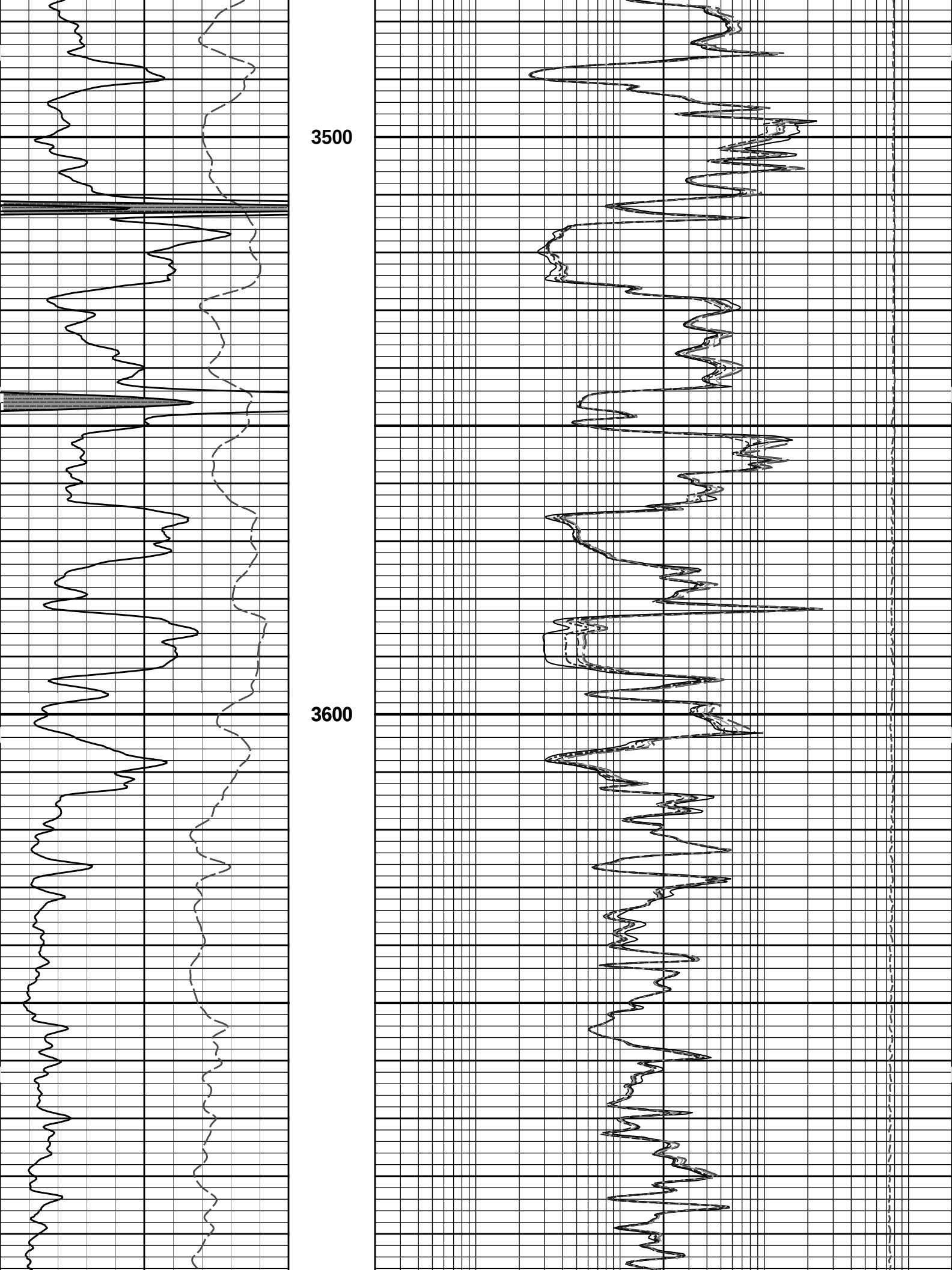

2400
2500
SP
Gamma API
90in Resistivity 2ft Res
90in Resistivity 2ft Res REPEA
20in Resistivity 2ft Res
60in Resistivity 2ft Res
10in Resistivity 2ft Res
30in Resistivity 2ft Res

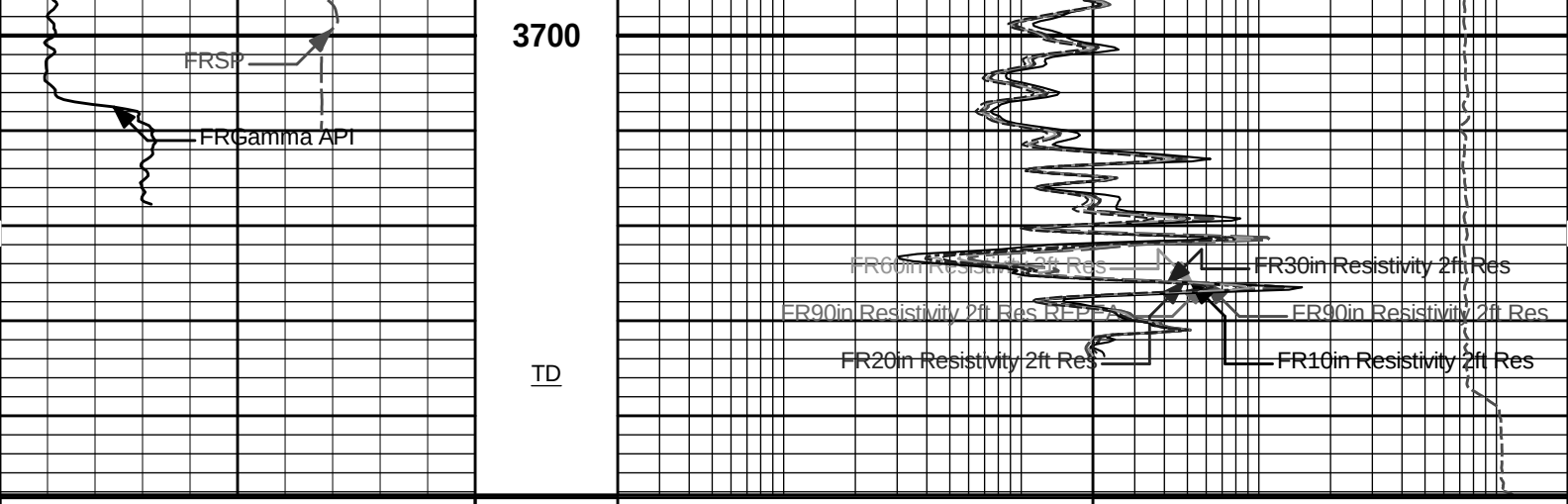

2600
2700
2800


2900
3000


3100
SP
Gamma API
90in Resistivity 2ft Res
90in Resistivity 2ft Res REPEA
20in Resistivity 2ft Res
10in Resistivity 2ft Res
60in Resistivity 2ft Res
30in Resistivity 2ft Res
3200


3300
3400


3500
3600



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

1 : 240
ft
Tension Pull
10 0
Tension Pull

10K Tension 0
pounds

0.2 10in Resistivity 2ft Res 2000
ohmm
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: 11-Nov-11 15:11:24
Plot Range: 1260 ft to 3748.33 ft
Data: MCCORD_A_20H\Well Based\ACRT
Plot File: \\-LOCAL-\MCCORD_A_20H\0001 SP-GTET-FLEX-ACRT-HOLEFINDER\ACRT\ACRT_5_main_lib

5 INCH MAIN LOG

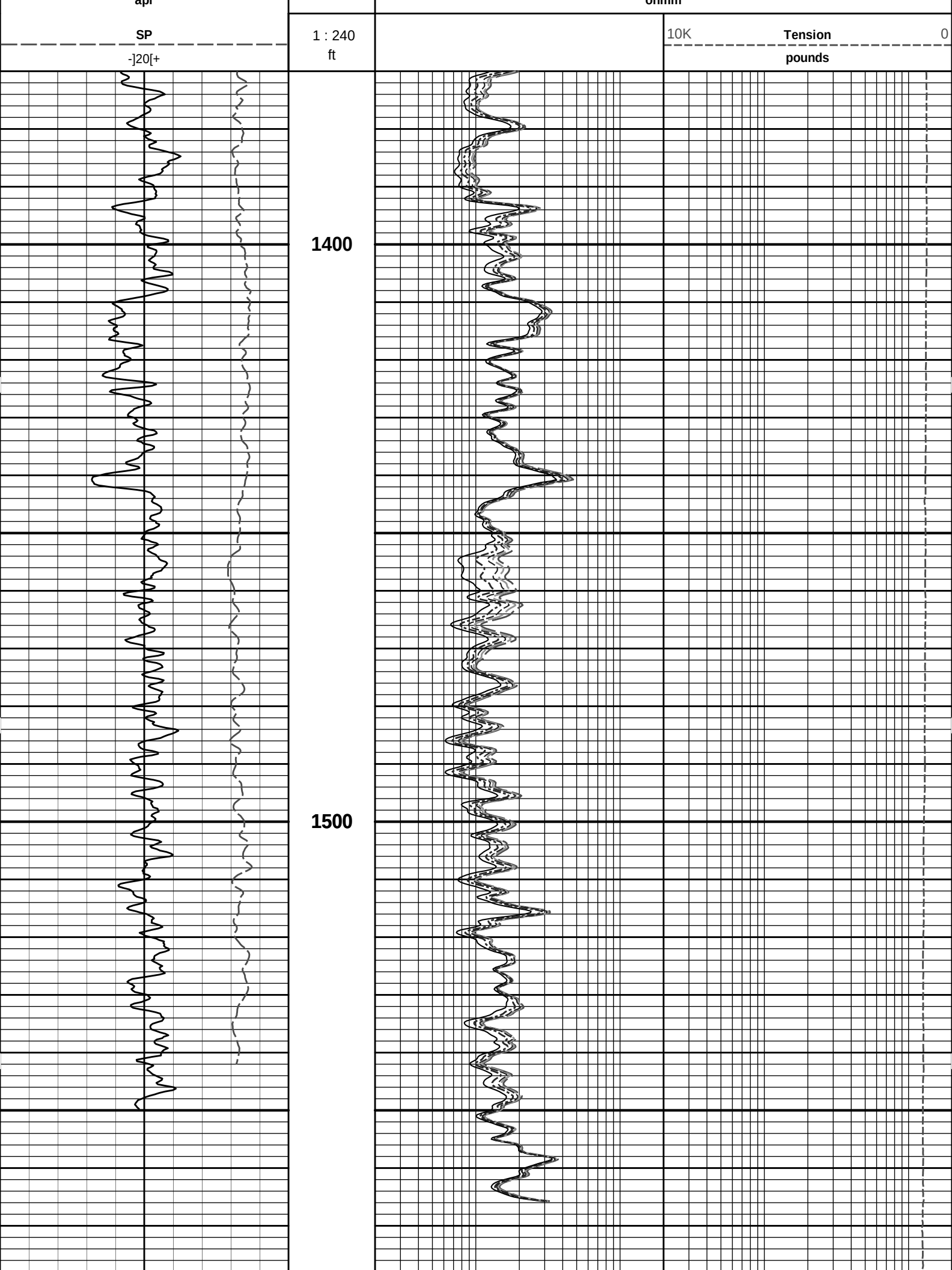
HALLIBURTON

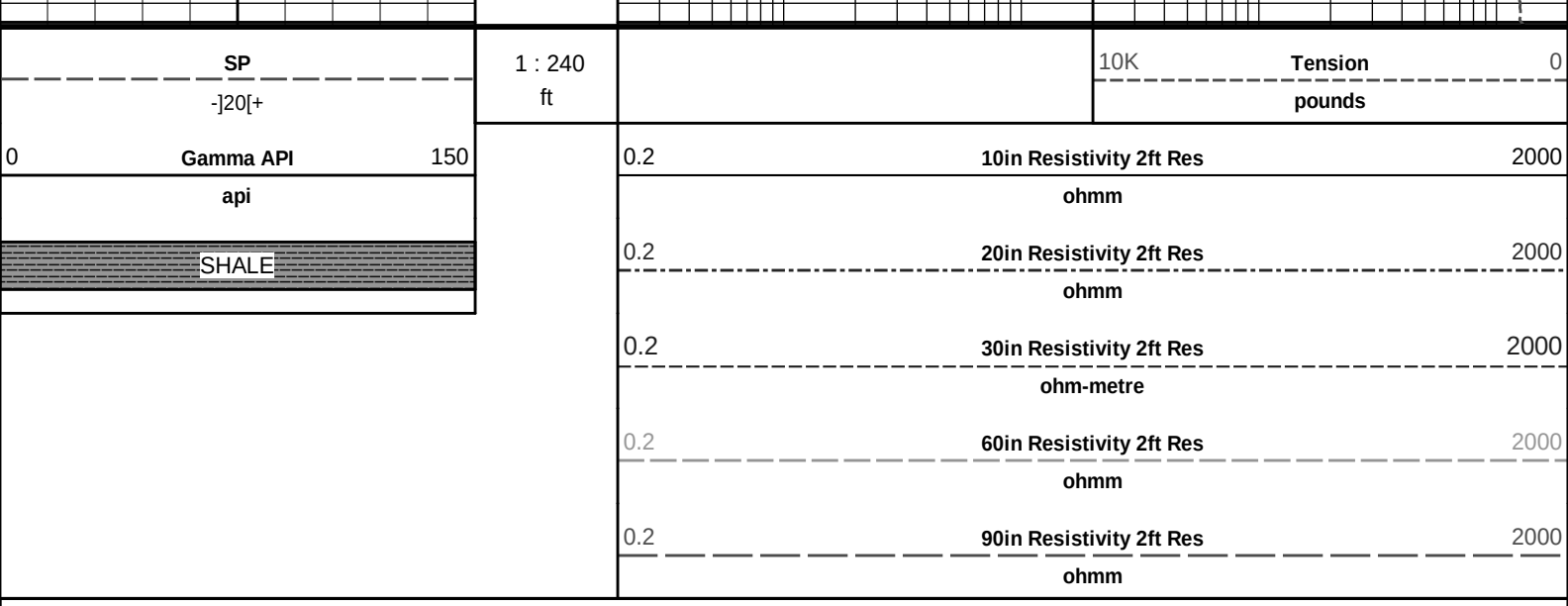
Plot Time: 11-Nov-11 15:11:24
Plot Range: 1370 ft to 1580.33 ft
Data: MCCORD_A_20H\Well Based\DAQ-0001-003
Plot File: \\-LOCAL-\MCCORD_A_20H\0001 SP-GTET-FLEX-ACRT-HOLEFINDER\ACRT\ACRT_5_repeat_lib

REPEAT SECTION

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
0 Gamma API 150
api


api
SP
-]20[+
1 : 240
ft
ohmm
10K
Tension
0
pounds
1400
1500



HALLIBURTON

Plot Time: 11-Nov-11 15:11:27
Plot Range: 1370 ft to 1580.33 ft
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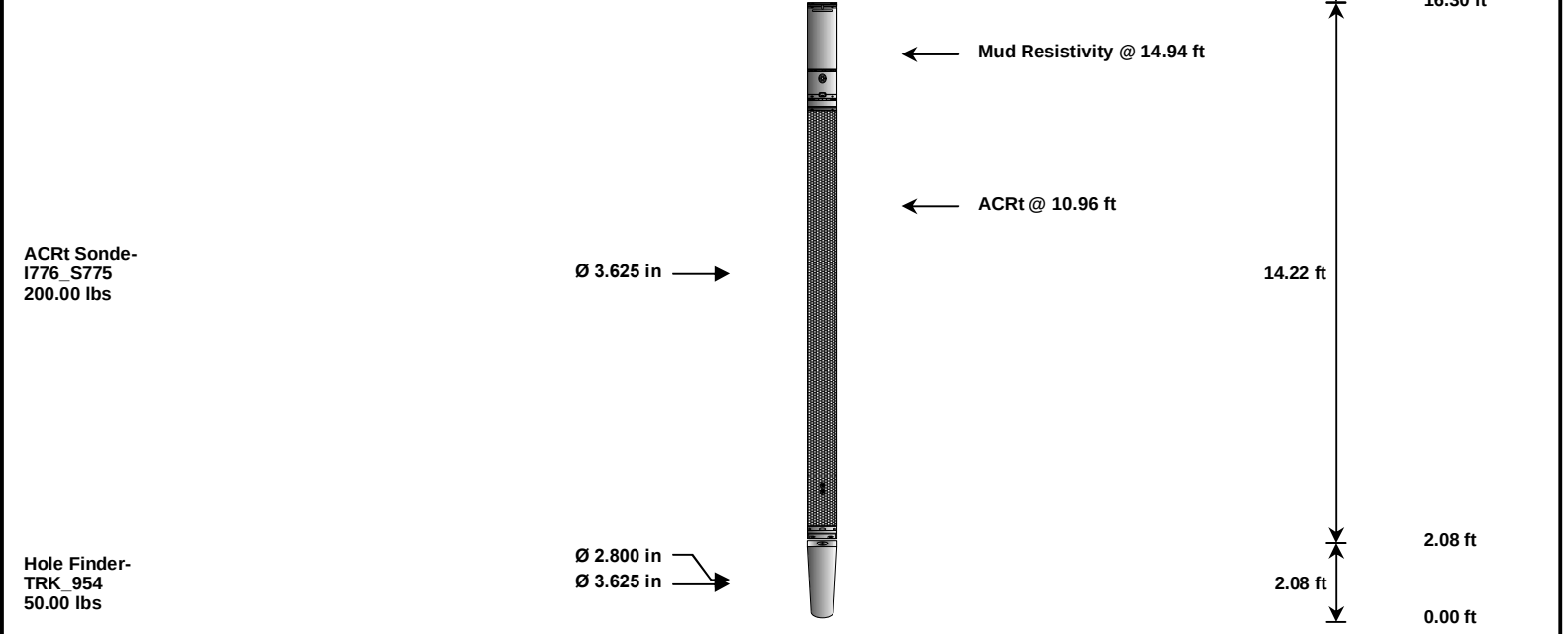
Plot File: \\-LOCAL-\MCCORD_A_20H\0001 SP-GTET-FLEX-ACRT-HOLEFINDER\ACRT\ACRT_5_repeat_lib

REPEAT SECTION

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
Cable Head-PROT01 30.00 lbs		Ø 3.625 in			1.92 ft	41.18 ft
SP Sub-TRK954 60.00 lbs		Ø 3.625 in		SP @ 37.48 ft	3.74 ft	39.26 ft
GTET-10748374 165.00 lbs		Ø 3.625 in		GammaRay @ 29.46 ft	8.52 ft	35.52 ft
Flex Joint-001 140.00 lbs		Ø 3.625 in			5.67 ft	27.00 ft
ACRt Instrument-I776 50.00 lbs		Ø 3.625 in			5.03 ft	21.33 ft
						16.30 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	39.26	300.00
SP	SP Sub	TRK954	60.00	3.74	35.52	300.00
GTET	Gamma Telemetry Tool	10748374	165.00	8.52	27.00	60.00
FLEX	Flex Joint	001	140.00	5.67	21.33	300.00
ACRt	Array Compensated True Resistivity Instrument Section	I776	50.00	5.03	16.30	300.00
ACRt	Array Compensated True Resistivity	I776_S775	200.00	14.22	2.08	300.00
HFND	Hole Finder	TRK_954	50.00	2.08	0.00	300.00
Total			**695.00**	**41.18**		

Data: MCCORD_A_20H\0001 SP-GTET-FLEX-ACRT-HOLEFINDER\IDLE **Date: 11-Nov-11 10:16:48**

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:	**GTET - 10748374**	**Reference Calibration Date:**	**09-Aug-11 05:40:36**
Engineer:	**C. MARLOWE**	**Calibration Date:**	**02-Nov-11 10:46:23**
Software Version:	**WL INSITE R3.4.2 (Build 2)**	**Calibration Version:**	**1**

Calibrator Source S/N: TB-185

Calibrator API Reference:228.00 api

Equivalent Calibrator API Reference:232.0 api

Measurement	Measured	Calibrated	Units
Background	57.6	58.9	api
Background + Calibrator	284.6	290.9	api
Calibrator	226.9	232.0	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name:	**GTET - 10748374**	**Reference Calibration Date:**	**02-Nov-11 10:46:23**
Engineer:	**C. HAVERKAMP**	**Calibration Date:**	**10-Nov-11 15:15:49**
Software Version:	**WL INSITE R3.4.2 (Build 2)**	**Calibration Version:**	**1**

Calibrator Source S/N: TB-185

Calibrator API Reference:228.00 api

Equivalent Calibrator API Reference:232.0 api

Field Verification	Shop	Field	Units

Field Verification	Shop	Field	Units
Background	58.9	29.5	api
Background + Calibrator	290.9	268.9	api
Calibrator	232.0	239.4	api

Shop	Field	Difference	Tolerance
232.0	239.4	-7.4	+/- 9.00

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION

Tool Name: ACRt Sonde - I776_S775 **Reference Calibration Date:** 03-Oct-11 09:54:31

Engineer: C. HAVERKAMP **Calibration Date:** 06-Nov-11 13:13:00

Software Version: WL INSITE R3.4.2 (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	1.0201	1.05	0.95	1.0238	1.05	0.95	1.0235	1.05
A2 (50")	0.95	1.0200	1.05	0.95	1.0244	1.05	0.95	1.0221	1.05
A3 (29")	0.95	1.0125	1.05	0.95	1.0161	1.05	0.95	1.0136	1.05
A4 (17")	0.95	1.0136	1.05	0.95	1.0163	1.05	0.95	1.0170	1.05
A5 (10")	N/A	N/A	N/A	0.95	1.0073	1.05	0.95	1.0086	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9980	1.05	0.95	1.0023	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	-1.563	2	-6	-4.270	-2	-8	-4.266	-2
A2 (50")	-7	-2.713	-1	-6	-4.225	-2	-7	-4.268	-2
A3 (29")	-27	-14.636	-9	-9	-4.382	-3	-7	-2.482	-1
A4 (17")	-180	-102.263	-60	-45	-31.423	-15	-39	-24.334	-13
A5 (10")	N/A	N/A	N/A	-150	-116.895	-50	-80	-53.601	-10
A6 (6")	N/A	N/A	N/A	175	276.554	525	90	138.421	270

TRANSMITTER CURRENT GAIN

Signal	Lower	R	Upper
12K	0.6	0.8454	1.3
36K	1.0	1.1743	2.0
72K	1.0	1.4617	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
GTET-10748374						
Gamma Ray Calibrator	232.0	239.4	----------	-7.4	+/- 9.00	api
ACRt Sonde-I776_S775						
Mud Cell	0.991	----------	----------	0.000	----------	ohm-m

Data: MCCORD_A_20H\0001 SP-GTET-FLEX-ACRT-HOLEFINDER\IDLE **Date: 11-Nov-11 11:21:57**

HALLIBURTON

PARAMETERS REPORT

Depth

Depth ((ft))	Tool Name	Mnemonic	Description	Value	Units
TOP					
	SHARED	BS	Bit Size	8.750	in
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No	
	SHARED	MDBS	Mud Base	Water	
	SHARED	MDWT	Borehole Fluid Weight	9.200	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	7.000	in
	SHARED	ST	Surface Temperature	75.0	degF
	SHARED	TD	Total Well Depth	3737.00	ft
	SHARED	BHT	Bottom Hole Temperature	100.0	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 for Gamma Ray Tools.	Eccentered	
	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	Eccentered	
	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	
BOTTOM					

Data: MCCORD_A_20H\0001 SP-GTET-FLEX-ACRT-HOLEFINDER\IDLE **Date: 11-Nov-11 11:23:37**

HALLIBURTON

INPUTS, DELAYS AND FILTERS TABLE

Mnemonic	Input Description	Delay	Filter Type	Filter Length

Mnemonic	Input Description	(ft)	Filter Type	(ft)
Depth Panel				
TENS	Tension	0.00	NO	
SP Sub				
PLTC	Plot Control Mask	37.48	NO	
SP	Spontaneous Potential	37.48	BLK	1.250
SPR	Raw Spontaneous Potential	37.48	NO	
SPO	Spontaneous Potential Offset	37.48	NO	
GTET				
TPUL	Tension Pull	29.46	NO	
GR	Natural Gamma Ray API	29.46	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	29.46	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	29.46	W	1.416 , 0.750
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	
ACRt Sonde				
TPUL	Tension Pull	4.48	NO	
F1R1	ACRT 12KHz - 80in R value	10.73	BLK	0.000
F1X1	ACRT 12KHz - 80in X value	10.73	BLK	0.000
F1R2	ACRT 12KHz - 50in R value	8.23	BLK	0.000
F1X2	ACRT 12KHz - 50in X value	8.23	BLK	0.000
F1R3	ACRT 12KHz - 29in R value	6.73	BLK	0.000
F1X3	ACRT 12KHz - 29in X value	6.73	BLK	0.000
F1R4	ACRT 12KHz - 17in R value	5.73	BLK	0.000
F1X4	ACRT 12KHz - 17in X value	5.73	BLK	0.000
F1R5	ACRT 12KHz - 10in R value	5.23	BLK	0.000
F1X5	ACRT 12KHz - 10in X value	5.23	BLK	0.000
F1R6	ACRT 12KHz - 6in R value	4.98	BLK	0.000
F1X6	ACRT 12KHz - 6in X value	4.98	BLK	0.000
F2R1	ACRT 36KHz - 80in R value	10.73	BLK	0.000
F2X1	ACRT 36KHz - 80in X value	10.73	BLK	0.000
F2R2	ACRT 36KHz - 50in R value	8.23	BLK	0.000
F2X2	ACRT 36KHz - 50in X value	8.23	BLK	0.000
F2R3	ACRT 36KHz - 29in R value	6.73	BLK	0.000
F2X3	ACRT 36KHz - 29in X value	6.73	BLK	0.000
F2R4	ACRT 36KHz - 17in R value	5.73	BLK	0.000
F2X4	ACRT 36KHz - 17in X value	5.73	BLK	0.000
F2R5	ACRT 36KHz - 10in R value	5.23	BLK	0.000
F2X5	ACRT 36KHz - 10in X value	5.23	BLK	0.000
F2R6	ACRT 36KHz - 6in R value	4.98	BLK	0.000
F2X6	ACRT 36KHz - 6in X value	4.98	BLK	0.000
F3R1	ACRT 72KHz - 80in R value	10.73	BLK	0.000
F3X1	ACRT 72KHz - 80in X value	10.73	BLK	0.000
F3R2	ACRT 72KHz - 50in R value	8.23	BLK	0.000
F3X2	ACRT 72KHz - 50in X value	8.23	BLK	0.000
F3R3	ACRT 72KHz - 29in R value	6.73	BLK	0.000
F3X3	ACRT 72KHz - 29in X value	6.73	BLK	0.000
F3R4	ACRT 72KHz - 17in R value	5.73	BLK	0.000
F3X4	ACRT 72KHz - 17in X value	5.73	BLK	0.000
F3R5	ACRT 72KHz - 10in R value	5.23	BLK	0.000
F3X5	ACRT 72KHz - 10in X value	5.23	BLK	0.000
F3R6	ACRT 72KHz - 6in R value	4.98	BLK	0.000
F3X6	ACRT 72KHz - 6in X value	4.98	BLK	0.000
RMUD	Mud Resistivity	14.27	BLK	0.000

RMUD	Mud Resistivity	14.27	BLK	0.000
F1RT	Transmitter Reference 12 KHz Real Signal	4.48	BLK	0.000
F1XT	Transmitter Reference 12 KHz Imaginary Signal	4.48	BLK	0.000
F2RT	Transmitter Reference 36 KHz Real Signal	4.48	BLK	0.000
F2XT	Transmitter Reference 36 KHz Imaginary Signal	4.48	BLK	0.000
F3RT	Transmitter Reference 72 KHz Real Signal	4.48	BLK	0.000
F3XT	Transmitter Reference 72 KHz Imaginary Signal	4.48	BLK	0.000
TFPU	Upper Feedpipe Temperature Calculated	4.48	BLK	0.000
TFPL	Lower Feedpipe Temperature Calculated	4.48	BLK	0.000
ITMP	Instrument Temperature	4.48	BLK	0.000
TCVA	Temperature Correction Values Loop Off	4.48	NO	
TIDV	Instrument Temperature Derivative	4.48	NO	
TUDV	Upper Temperature Derivative	4.48	NO	
TLDV	Lower Temperature Derivative	4.48	NO	
TRBD	Receiver Board Temperature	4.48	NO	

Data: MCCORD_A_20H\0001 SP-GTET-FLEX-ACRT-HOLEFINDER\IDLE **Date: 11-Nov-11 11:23:10**

COMPANY	**VESS OIL CORPORATION**
WELL	**McCORD A-20H**
FIELD	**BEMIS-SHUTTS**
COUNTY	**ELLIS** STATE **KANSAS**

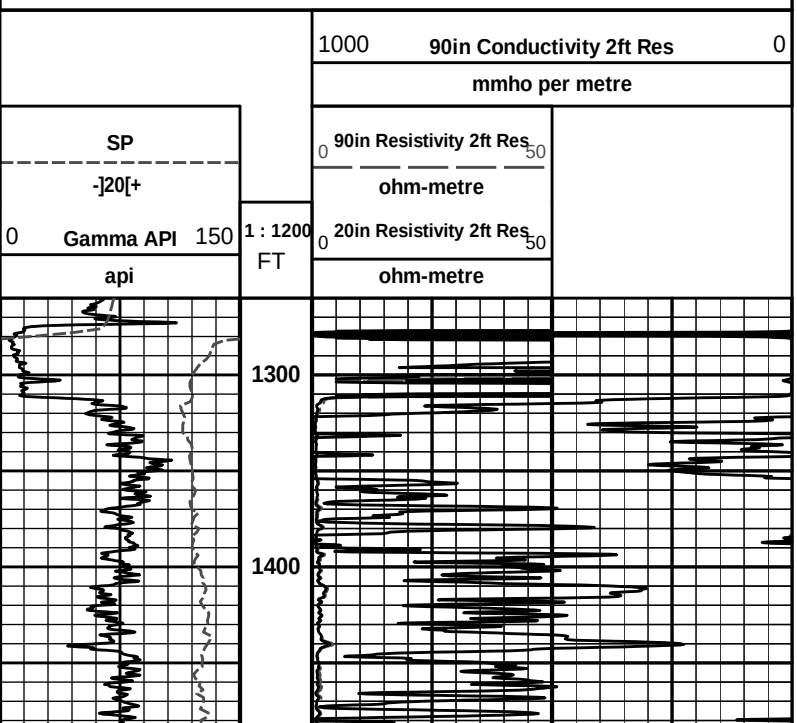
HALLIBURTON

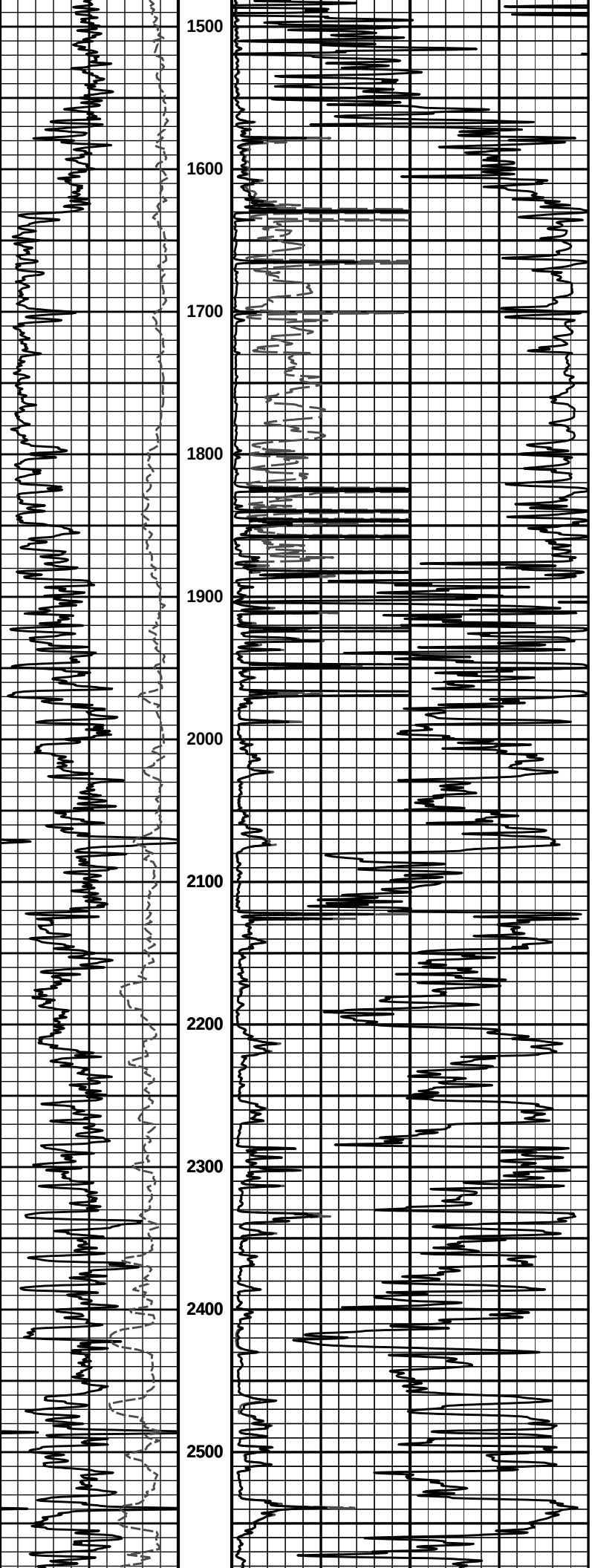
ARRAY COMPENSATED TRUE RESISTIVITY LOG

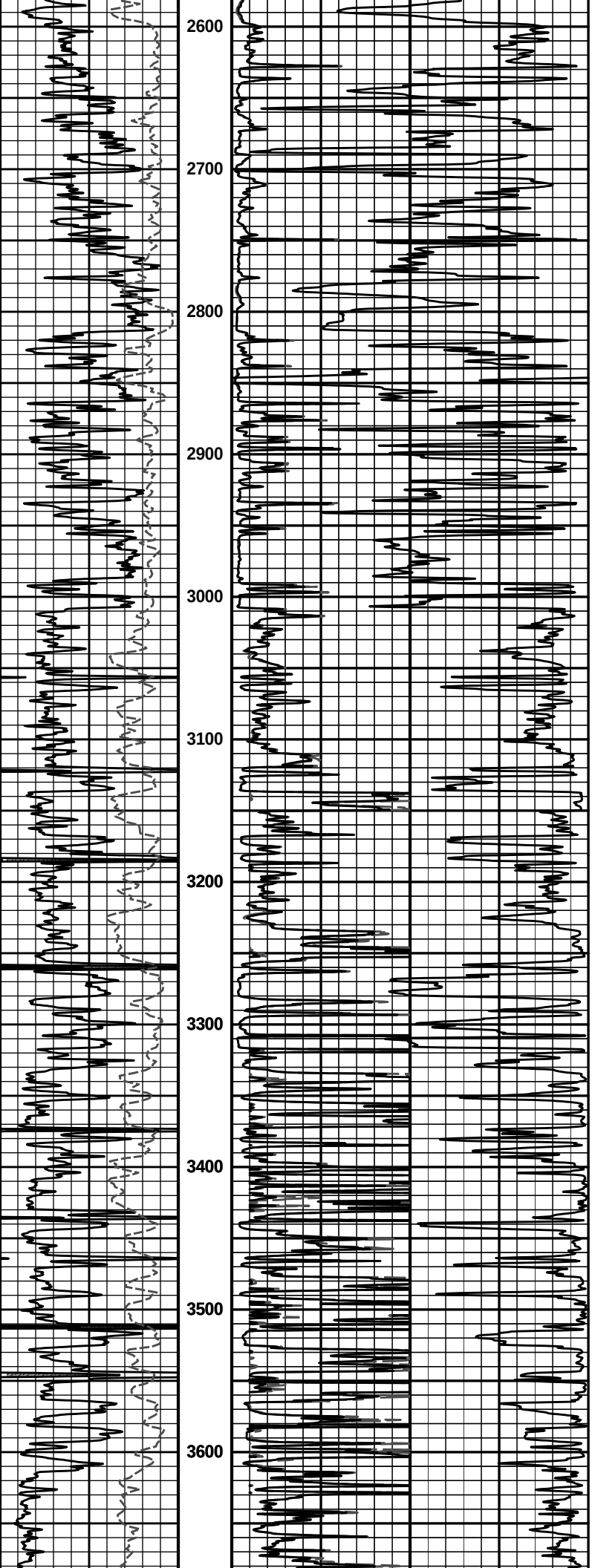
HALLIBURTON

Plot Time: 11-Nov-11 15:11:27
Plot Range: 1260 ft to 3733.75 ft
Data: MCCORD_A_20H\Well Based\ACRT
Plot File: \\-LOCAL-\MCCORD_A_20H\0001 SP-GTET-FLEX-ACRT-HOLEFINDER\...\ACRT_1_lib

1 INCH MAIN LOG




1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500


2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600

3700

0 **Gamma API** 150

api

SP

-]20[+

1 : 1200

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: 11-Nov-11 15:11:29
Plot Range: 1260 ft to 3733.75 ft
Data: MCCORD_A_20H\Well Based\ACRT
Plot File: \\-LOCAL-\MCCORD_A_20H\0001 SP-GTET-FLEX-ACRT-HOLEFINDER\...\ACRT_1_lib

1 INCH MAIN LOG