



KANSAS CORPORATION COMMISSION 1060100  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_- Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1060100

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
---	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
-----------------------------------	-----------	---------	-------------	---------------	---------

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Val Energy, Inc.
Well Name	WHELAN V1-29
Doc ID	1060100

Tops

Name	Top	Datum
HEEBNER	3562	-1983
DOUGLASS SS	3666	-2087
LKC	3753	-2174
STARK	4120	-2541
CHEROKEE	4302	-2723
MISS	4326	-2747
KINDERHOOK	4448	-2869
VIOLA	4591	-3012

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

September 08, 2011

TODD ALLAM  
Val Energy, Inc.  
200 W DOUGLAS AVE STE 520  
WICHITA, KS 67202-3005

Re: ACO1  
API 15-007-23726-00-00  
WHELAN V1-29  
NW/4 Sec.29-31S-11W  
Barber County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
TODD ALLAM



RECEIVED  
JUN 30 2011

PAGE 1 of 1	CUST NO 1004409	INVOICE DATE 06/29/2011
INVOICE NUMBER <b>1718 - 90634125</b>		

Pratt (620) 672-1201  
 B VAL ENERGY  
 I 200 W DOUGLAS AVE STE 520  
 L WICHITA  
 L KS US 67202  
 T  
 O ATTN:

J LEASE NAME Whelan V1-29  
 O LOCATION  
 B COUNTY Barber  
 S STATE KS *85/8*  
 I JOB DESCRIPTION Cement-New Well Casing/Pi *V1-19*  
 T  
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40337436	19905	<i>9208</i>	Net - 30 days	07/29/2011

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 06/26/2011 to 06/26/2011</i>				
0040337436				
171804371A Cement-New Well Casing/Pi 06/26/2011 Surface				
60/40 POZ	190.00	EA	9.24	1,755.61 T
Cello-flake	48.00	EA	2.85	136.75 T
Calcium Chloride	492.00	EA	0.81	397.78 T
Sugar	50.00	EA	1.54	77.00 T
Wooden Cement Plug 8 5/8"	1.00	EA	123.20	123.20
Unit Mileage Charge-Pickups, Vans & Cars	35.00	HR	3.27	114.54
Heavy Equipment Mileage	70.00	MI	5.39	377.30
Proppant and Bulk Delivery Charges	287.00	MI	1.23	353.58
Depth Charge; 0-500'	1.00	HR	770.00	770.00
Blending & Mixing Service Charge	190.00	MI	1.08	204.82
Plug Container Utilization Charge	1.00	EA	192.50	192.50
Supervisor	1.00	HR	134.75	134.75

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	4,637.83
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	172.80
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	4,810.63
DALLAS, TX 75284-1903	MIDLAND, TX 79702		



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

FIELD SERVICE TICKET  
1718 04371 A

29-315-11W

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB 6-26-11		DISTRICT Pratt, Kansas		NEW WELL <input checked="" type="checkbox"/>		OLD WELL <input type="checkbox"/>		PROD <input type="checkbox"/>		INJ <input type="checkbox"/>		WDW <input type="checkbox"/>		CUSTOMER ORDER NO.:	
CUSTOMER Val Energy, Incorporated				LEASE Whelan				WELL NO. 11-29							
ADDRESS				COUNTY Barber				STATE Kansas							
CITY				STATE				SERVICE CREW C. Messick: M. Mattal: J. Brungardt							
AUTHORIZED BY				JOB TYPE: C.N.W. - Surface											
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME						
37,216	.75						6-25-11	PM	9:30						
						ARRIVED AT JOB	6-25-11	PM	11:30						
19,903-19,905	.75					START OPERATION	6-26-11	AM	2:15						
						FINISH OPERATION	6-26-11	PM	3:00						
19,826-19,860	.75					RELEASED	6-26-11	PM	3:15						
						MILES FROM STATION TO WELL	35								

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: Kandy Smith  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 103	60/40 Poz Cement	sk	190	\$	2,280.00
CE 102	Cell Plate	Lb	48	\$	177.60
CC 109	Calcium Chloride	Lb	492	\$	516.60
CF 153	Wooden Plug, 8 5/8"	ea	1	\$	160.00
CC 131	Sugar	Lb	50	\$	100.00
E 100	Pickup Mileage	mi	35	\$	148.75
E 101	Heavy Equipment Mileage	mi	70	\$	490.00
E 113	Bulk Delivery	tm	287	\$	459.20
CE 200	Cement Pump: 0 Feet To 500 Feet	hrs	4	\$	1,000.00
CE 240	Blending and Mixing Service	sk	190	\$	266.00
CE 504	Plug Container	Job	1	\$	250.00
S003	Service Supervisor	hrs	8	\$	175.00

CHEMICAL / ACID DATA:			

SUB TOTAL DLS \$ 4637.83

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE <u>Angene R. Wood</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>Kandy Smith</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
--	---

FIELD SERVICE ORDER NO.



Customer Val Energy, Incorporated	Lease No.	Date 6-26-11
Lease Whelan	Well # V1-29	
Field Order # 4371	Station Pratt, Kansas	Casing 8 5/8 23Lb.
		Depth 224 Feet
Type Job C.N.W. - Surface	Formation	County Barber
		State Kansas
		Legal Description 29-315-11W

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 8 5/8 23Lb./ft.	Tubing Size 4 1/2 16.6Lb./ft.	Shots/Ft	190 sacks	Acid	60/40 Poz with	RATE	PRESS	ISIP
Depth 224 Feet	Depth	From	To 28 Gel	Pre Pad	38 Calcium Chloride			5 Min.
Volume 4.3 Bbl.	Volume	From	To 14.81	Pad	1 Gal., 5.18 cu. ft./stk.	Min		10 Min.
Max Press 350 P.S.I.	Max Press	From	To	Frac		Avg		15 Min.
Well Connection Plug container	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth 209 Feet	Packer Depth	From	To	Flush	13.5 Bbl. Fresh Water	Gas Volume		Total Load

Customer Representative Randy Smith	Station Manager David Scott	Treater Clarence R. Messick
Service Units 37,216	19,903	19,905
Driver Names Messick	Mattal	Brungardt
19,826	19,860	

Time P.M.	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
11:30	6-25-11				Trucks on location and hold safety meeting.
1:10	6-26-11	Val	Drilling start	to run 5 Taints new 23Lb./ft. 8 5/8" casing.	
2:10					Casing in well. Circulate for 5 minutes.
2:20	300			5	start Fresh Water Pre flush.
	300		10	5	start mixing 190 sacks 60/40 Poz cement.
	150		51		stop pumping. Shut in well. Release Wooden Plug. Open Well.
2:45	350		13.5		Plug down. Shut in well.
					Circulated 10 sacks cement to the pit.
					Washup pump truck.
3:15					Job Complete.
					Thank You.
					Clarence, Mitre, Jerrod



PAGE 1 of 1	CUST NO 1004409	INVOICE DATE 07/08/2011
INVOICE NUMBER 1718 - 90641402		

Pratt (620) 672-1201

B VAL ENERGY  
I 200 W DOUGLAS AVE STE 520  
L WICHITA  
L KS US 67202  
T  
O ATTN:

RECEIVED

JUL 09 2011

J LEASE NAME Whelan V1-29  
O LOCATION  
B COUNTY Barber  
S STATE KS  
I JOB DESCRIPTION Cement-New Well Casing/Pi  
T JOB CONTACT  
E

5 1/2" Prod. Cement

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40340894	20920	9308	Net - 30 days	08/07/2011
<b>For Service Dates: 07/07/2011 to 07/07/2011</b>				
0040340894				
171803436A Cement-New Well Casing/Pi 07/07/2011 5 1/2" Longstring				
AA2 Cement		100.00	EA	13.43
60/40 POZ		50.00	EA	9.48
De-foamer (Powder)		24.00	EA	3.16
Salt (Fine)		455.00	EA	0.39
Gas-Blok		94.00	EA	4.07
FLA-322		76.00	EA	5.92
Gilsonite		500.00	EA	0.53
Super Flush II		500.00	EA	1.21
Top Rubber Cement Plug 5 1/2"		1.00	EA	82.95
Guide Shoe-Regular 5 1/2" (Blue)		1.00	EA	197.49
Flapper Type Insert Float Valves 5 1/2"		1.00	EA	169.84
Turbolizer 5 1/2" (Blue)		5.00	EA	86.90
5 1/2" Basket (Blue)		1.00	EA	229.09
Unit Mileage Charge-Pickups, Vans & Cars		35.00	HR	3.36
Heavy Equipment Mileage		70.00	MI	5.53
Proppant and Bulk Delivery Charges		240.00	MI	1.26
Depth Charge; 4001-5000'		1.00	HR	1,990.73
Blending & Mixing Service Charge		150.00	MI	1.11
Plug Container Utilization Charge		1.00	EA	197.49
Supervisor		1.00	HR	138.24
<b>PLEASE REMIT TO:</b>				<b>SUB TOTAL</b>
BASIC ENERGY SERVICES, LP				8,188.31
PO BOX 841903				<b>TAX</b>
DALLAS, TX 75284-1903				275.51
<b>SEND OTHER CORRESPONDENCE TO:</b>				<b>INVOICE TOTAL</b>
BASIC ENERGY SERVICES, LP				8,463.82
PO BOX 10460				
MIDLAND, TX 79702				









**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

FIELD SERVICE TICKET  
1718 03436 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB 7-7-11	DISTRICT Pratt	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:			
CUSTOMER Village	LEASE Village	WELL NO. 512								
ADDRESS	COUNTY Pratt	STATE KS								
CITY	STATE	SERVICE CREW Sutton, Miller, Hester								
AUTHORIZED BY	JOB TYPE: COW									
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
32224-19823	3			9306			7:20			
1982-19862	3									
37400										2:25
										3:00
										7:45

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: \_\_\_\_\_  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 102	4 1/2" pipe	sk	100		1,700.00
CP 103	6 1/4" pipe	sk	50		600.00
CC 105	2" nipple	lb	34		96.00
CC 111	Sulf	lb	455		227.50
CC 115	1" - 1/2" pipe	lb	94		484.10
CC 127	7/8" 3/22	lb	70		570.00
CC 201	coupling	lb	500		335.00
CF 103	Top Pump Plug 5" 1/2	ea	1		103.00
CF 231	Anchor Bolt	ea	1		250.00
CF 145	Flange	ea	1		215.00
CF 165	Tubing	ea	5		590.00
CF 151	nut	ea	1		290.00
CF 155	pipe flange	ea	500		765.00
CF 100	2 1/2" nipple	ea	35		148.75
CF 101	4" nipple	ea	70		490.00
CF 113	1/2" 1/2" pipe	ea	240		383.60
CF 205	2" pipe	ea	1		2,520.00
CF 240	1/2" 1/2" pipe	ea	150		210.00
CF 209	1/2" 1/2" pipe	ea	1		250.00
3003	2" pipe	ea	1		175.00
SUB TOTAL					8,188.31

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		8,188.31

SERVICE REPRESENTATIVE <i>[Signature]</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>[Signature]</i> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
--	--

FIELD SERVICE ORDER NO. \_\_\_\_\_



Customer <i>VAL-ENCR94</i>	Lease No.	Date <i>7-7-11</i>			
Lease <i>Whelan</i>	Well # <i>V1-29</i>				
Field Order # <i>3436</i>	Station <i>PRATT KS</i>	Casing <i>5 1/2</i>	Depth	County <i>BARBER</i>	State <i>KS</i>
Type Job <i>CNW 5 1/2" Longstop</i>	Formation			Legal Description <i>29-31-11</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>5 1/2</i>							5 Min.	
Depth <i>7610</i>	Depth	From	To	Pre Pad	Max			
Volume <i>109</i>	Volume	From	To	Pad	Min		10 Min.	
Max Press <i>1500</i>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection <i>P.C.</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <i>4572</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative				Station Manager <i>DAVE SCOTT</i>		Treater <i>Robert Williams</i>			
Service Units	<i>37900</i>	<i>33708</i>	<i>20920</i>	<i>19832</i>	<i>19862</i>				
Driver Names	<i>Sullivan</i>	<i>Melson</i>	<i>Hunter</i>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>9:45 Am</i>					<i>on line softy meeting</i>
					<i>Run 118 sts 5 1/2 csg</i>
					<i>1, 3, 5, 7, 10 "8 Bbed</i>
<i>1:35 pm</i>					<i>CASING ON BOTTOM</i>
<i>1:45</i>					<i>Hook Rig To cirk.</i>
<i>2:25</i>	<i>100</i>		<i>12</i>	<i>3.5</i>	<i>St Upper fluid</i>
			<i>3</i>		<i>St Spikes</i>
				<i>5.5</i>	<i>mix cont 100 st AA-2</i>
			<i>24</i>		<i>cont mix-D. shot down wash, pump, lines</i>
					<i>Release Plug</i>
				<i>6</i>	<i>St Dip</i>
	<i>300</i>		<i>83</i>		<i>lift Ps.</i>
	<i>500</i>			<i>4.5</i>	<i>slow Rate</i>
<i>3:00</i>	<i>1500</i>		<i>109</i>		<i>plug down</i>
			<i>7</i>		<i>plug m-4</i>
			<i>5</i>		<i>plug R.H</i>
					<i>5013 complete</i>
					<i>Thank you</i>

# HALLIBURTON

## ARRAY COMPENSATED TRUE RESISTIVITY LOG

COMPANY **VAL ENERGY INC**  
WELL **WHELAN V1-29**  
FIELD **UNKNOWN**  
COUNTY **BARBER**  
STATE **KANSAS**

COMPANY **VAL ENERGY INC**  
WELL **WHELAN V1-29**  
FIELD **UNKNOWN**  
COUNTY **BARBER**  
STATE **KANSAS**

API No. 15-007-23726  
Location 2080' FNL & 1980' FWL

Sect. 29 Twp. 31S Rge. 11W

Other Services:  
DSN/SDL  
MICRO

Elev. 1570.0 ft  
Elev. K.B. 1579.0 ft  
D.F. 1578.0 ft  
G.L. 1570.0 ft

Permanent Datum GL  
Log measured from KB  
Drilling measured from KB  
Date 06-Jul-11

Run No. 1  
Depth - Driller 4650.00 ft  
Depth - Logger 4646.0 ft  
Bottom - Logged Interval 4637.0 ft

Top - Logged Interval 224.0 ft  
Casing - Driller 8.625 in @ 224.0 ft  
Casing - Logger 224.0 ft

Bit Size 7.875 in  
Type Fluid in Hole WATER BASED MUD  
Density 9.0 ppg 54.00 s/qt  
PH 11.00 pH 8.0 cpm

Source of Sample FLOW LINE  
Rm @ Meas. Temperature 0.330 ohmm @ 100.00 degF  
Rmf @ Meas. Temperature 0.28 ohmm @ 95.00 degF  
Rmc @ Meas. Temperature 0.390 ohmm @ 95.00 degF

Source Rmf MEAS  
Rm @ BHT 0.27 ohmm @ 120.0 degF  
Time Since Circulation 4.0 hr  
Time on Bottom 06-Jul-11 23:56

Max. Rec. Temperature 120.0 degF @ 4846.0 ft  
Equipment Location 10546896 LIBERAL

Recorded By J. BOSH  
Missed By Z. STEWART

Fold here

Service Ticket No.: 8287001 API Serial No.: 15-007-23726 PGM Version: WL INSITE R3.2.0 (Build 7)

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 S909	N/A	1.5" S.O.	N/A
Rmc @ Meas. Temp.	@	@						
Source Rmf	Rmc							
Rm @ BHT	@	@						
Rmf @ BHT	@	@						
Rmc @ BHT	@	@						

EQUIPMENT DATA							
GAMMA		ACOUSTIC		DENSITY		NEUTRON	
Run No.	ONE	Run No.		Run No.		Run No.	
Serial No.	11048627	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



Run No.	Depth		Speed ft/min	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix
	From	To		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: 9000 PPM

GPS COORDINATES: LAT: 37.19 N LONG: 98.32 W

TODAY'S CREW: K. KING, V. JAIME

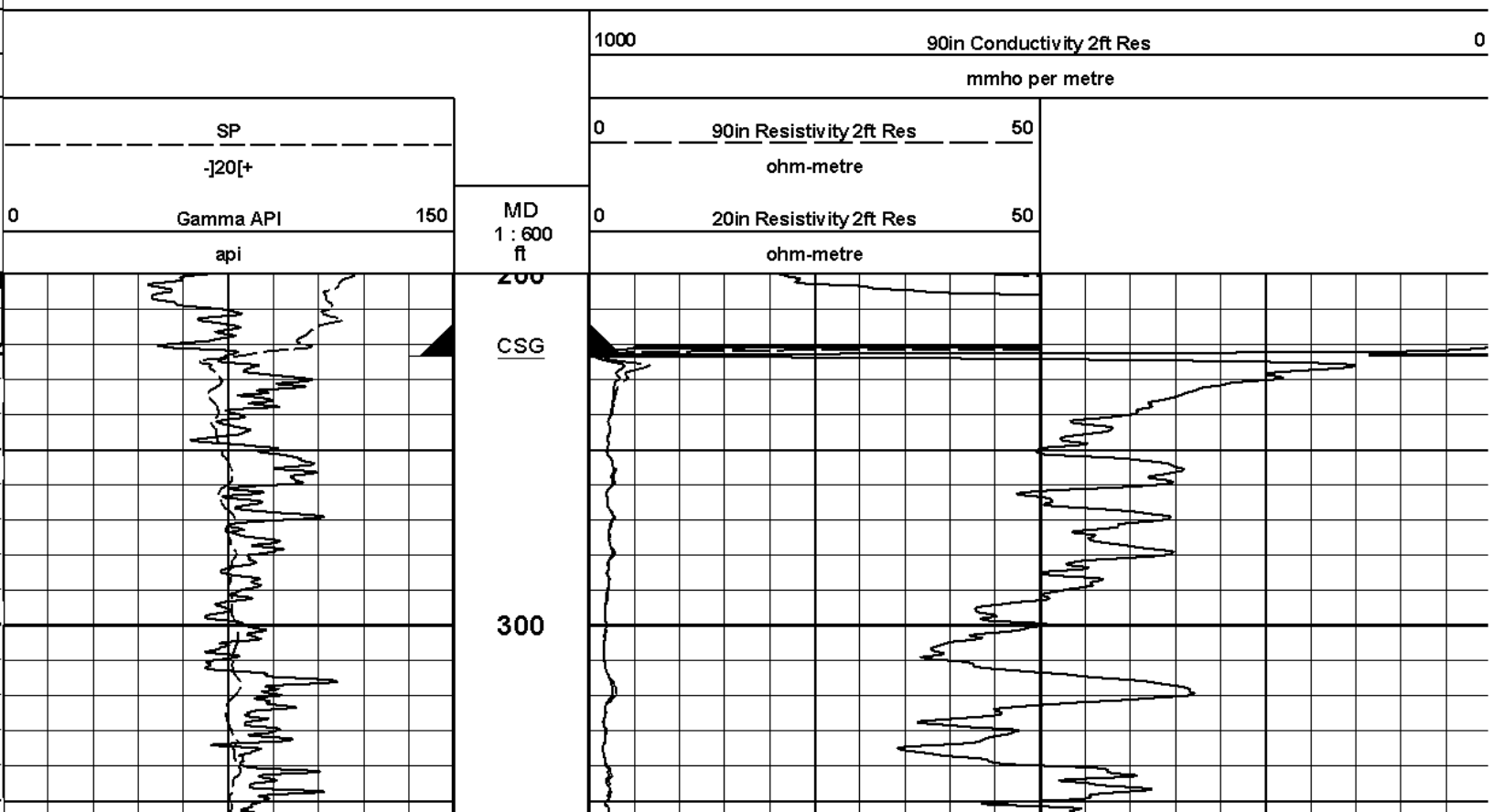
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES, LIBERAL, KS 620-824-8123

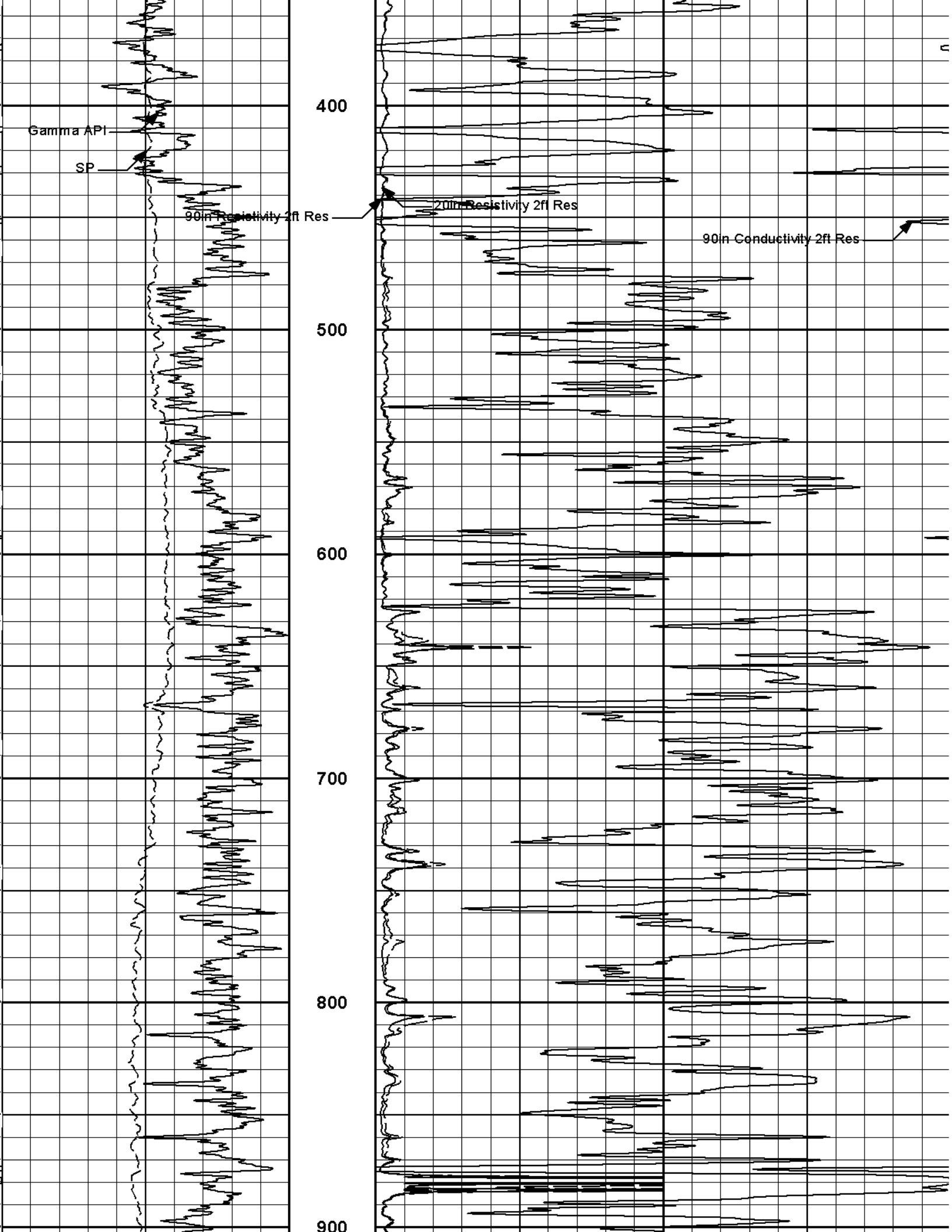
HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR 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.

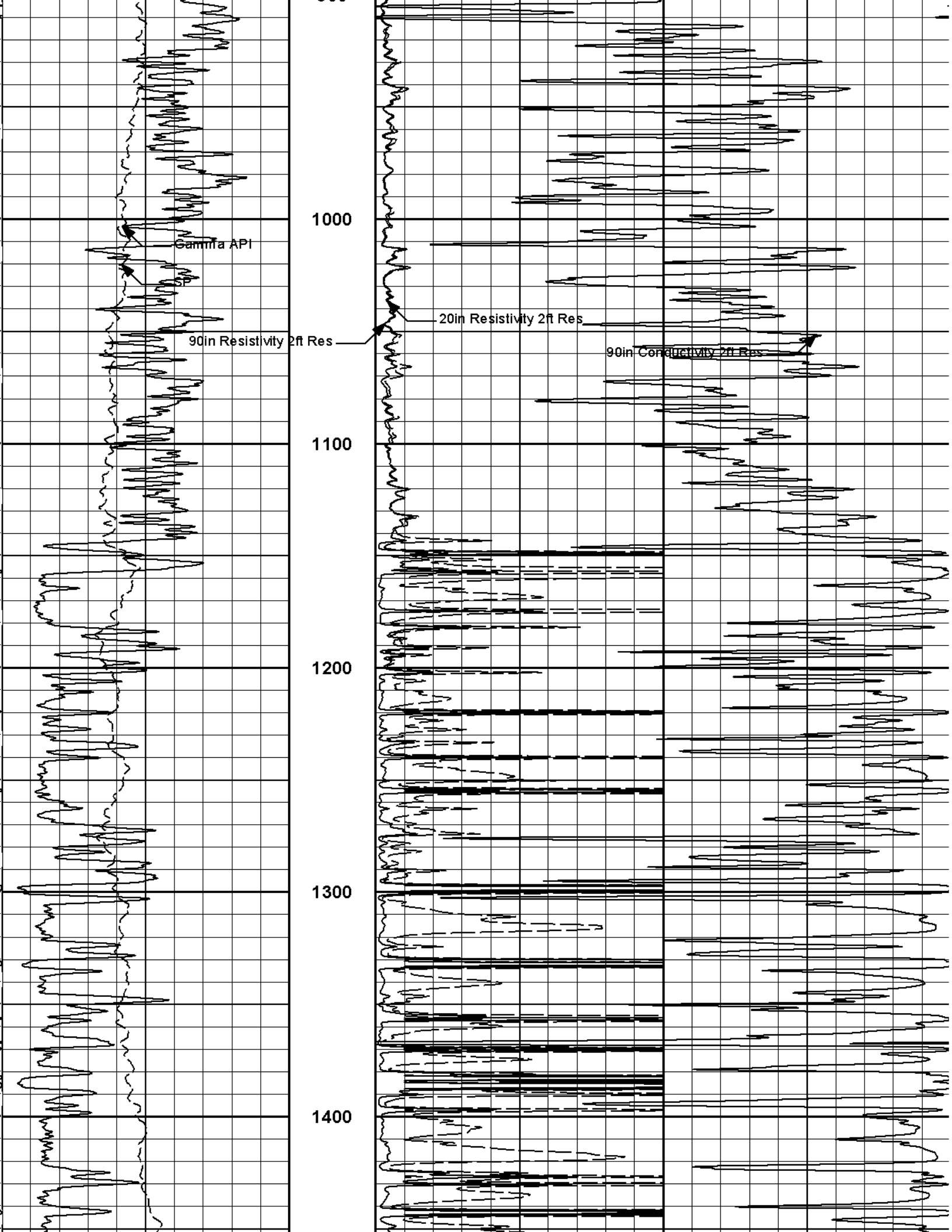
HALLIBURTON

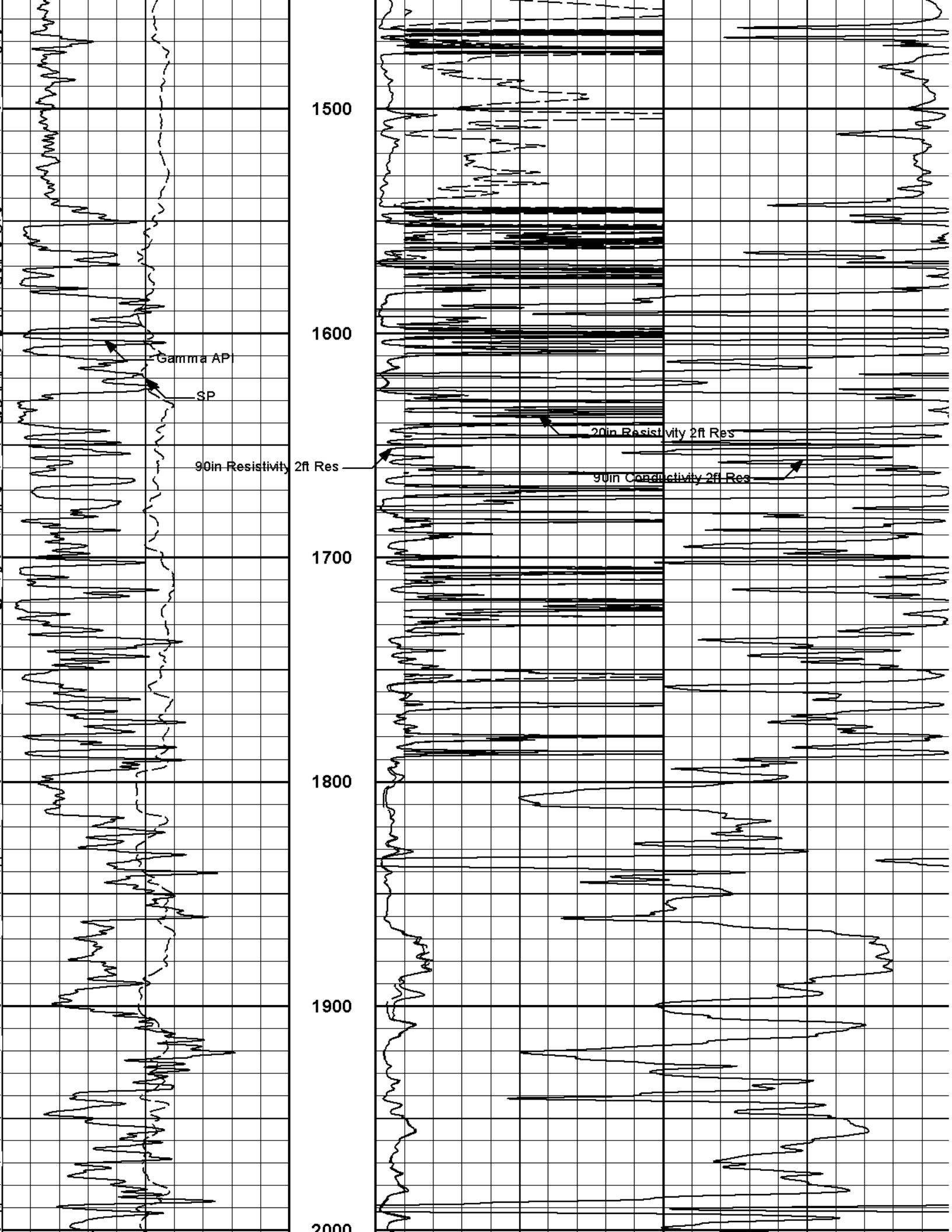
**HALLIBURTON** Plot Time: 07-Jul-11 03:18:19  
 Plot Range: 200 ft to 4650.17 ft  
 Data: WHELAN\_V1\_29\Well Based\DAQ-0001-003\  
 Plot File: \\LOCAL\WHELAN\_V1\_29\Well Based\ACRT\ACRT\_2.lib

## 2 INCH MAIN LOG

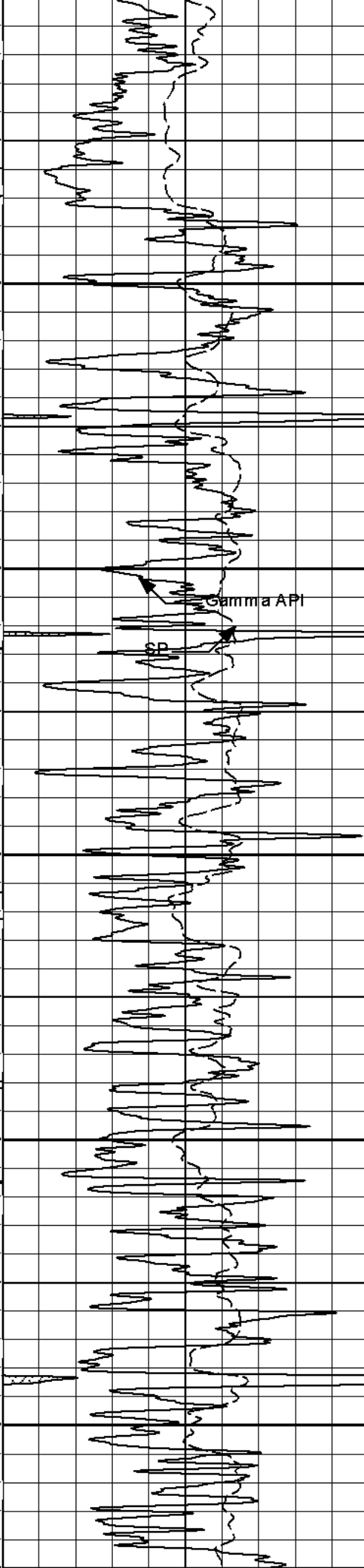




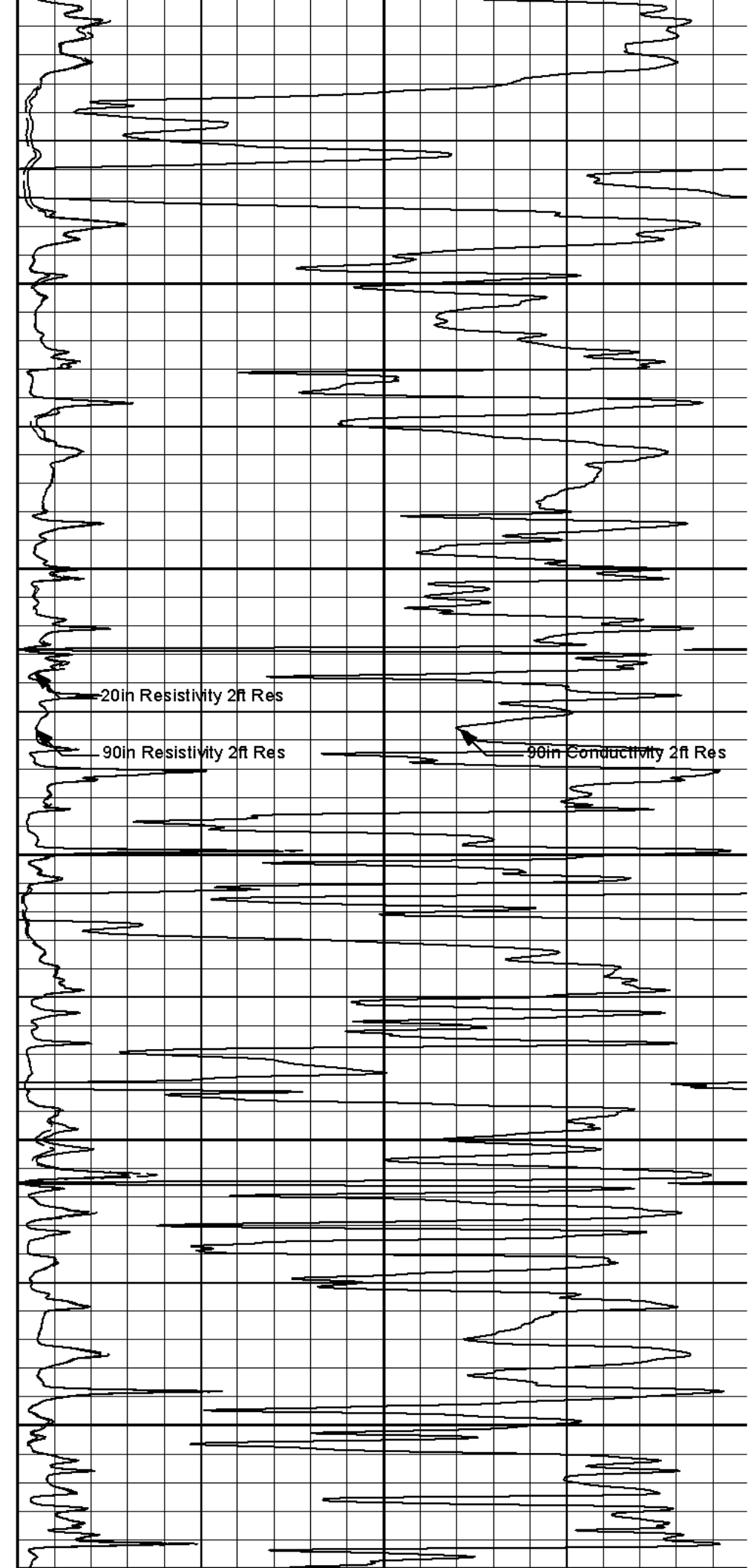








2000  
2100  
2200  
2300  
2400  
2500



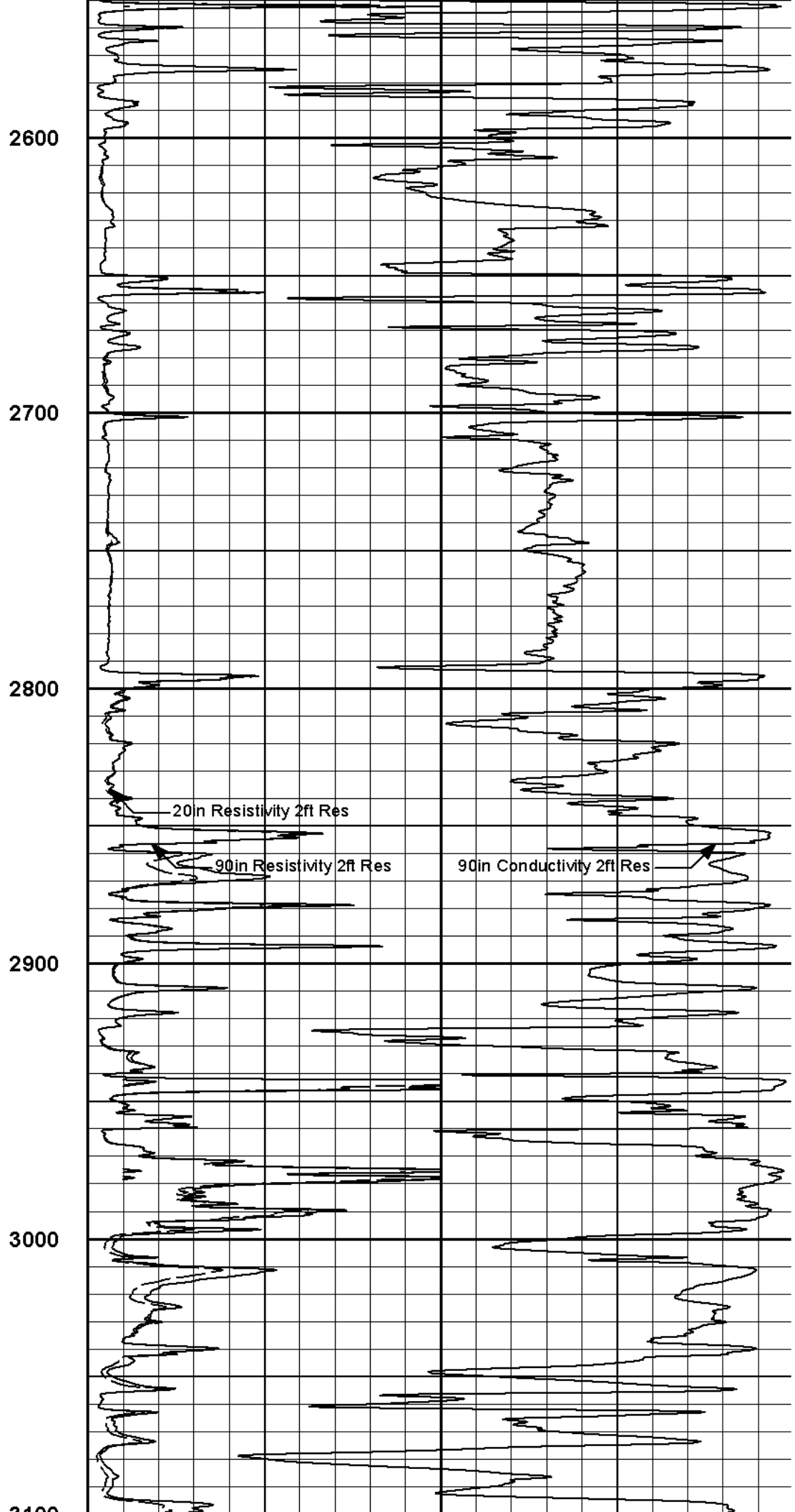
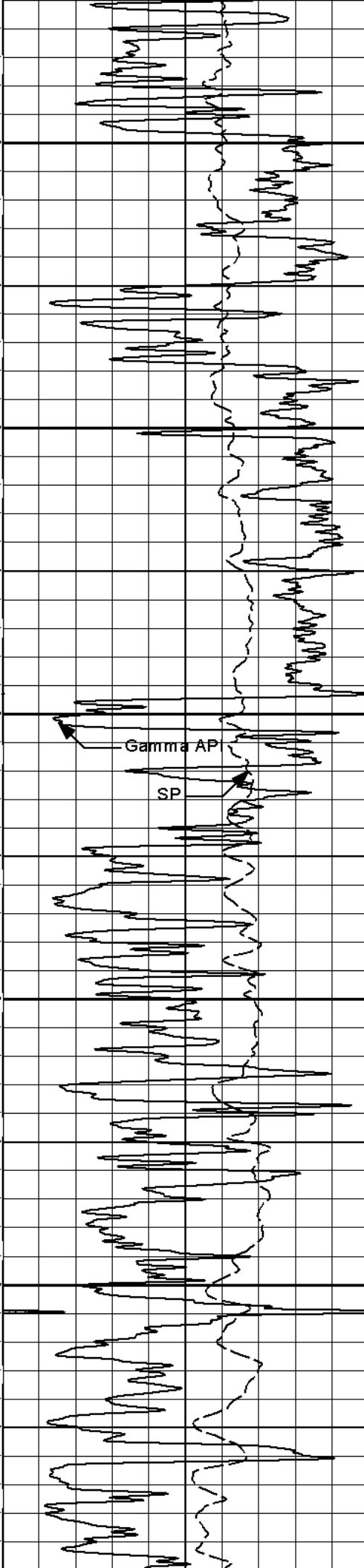
Gamma API

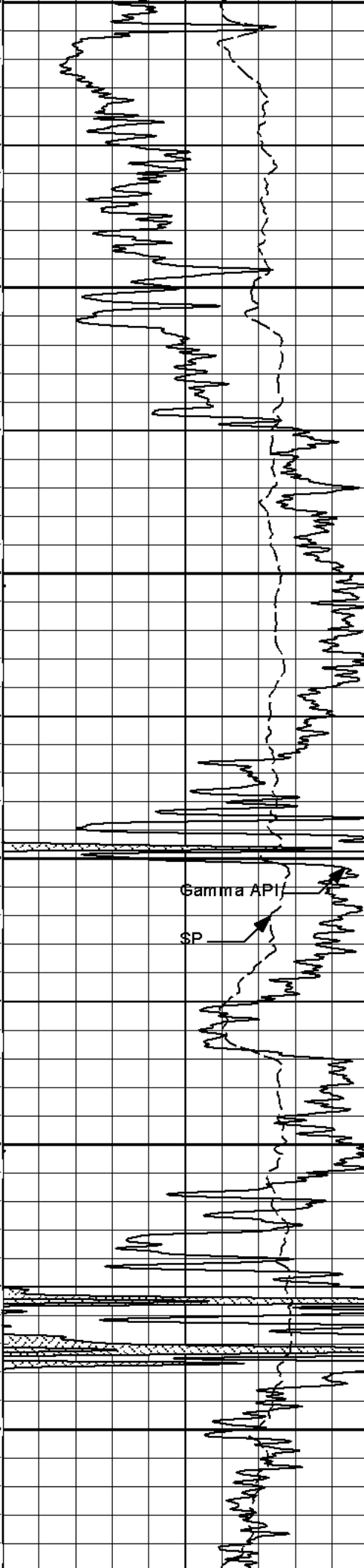
2F

20in Resistivity 2ft Res

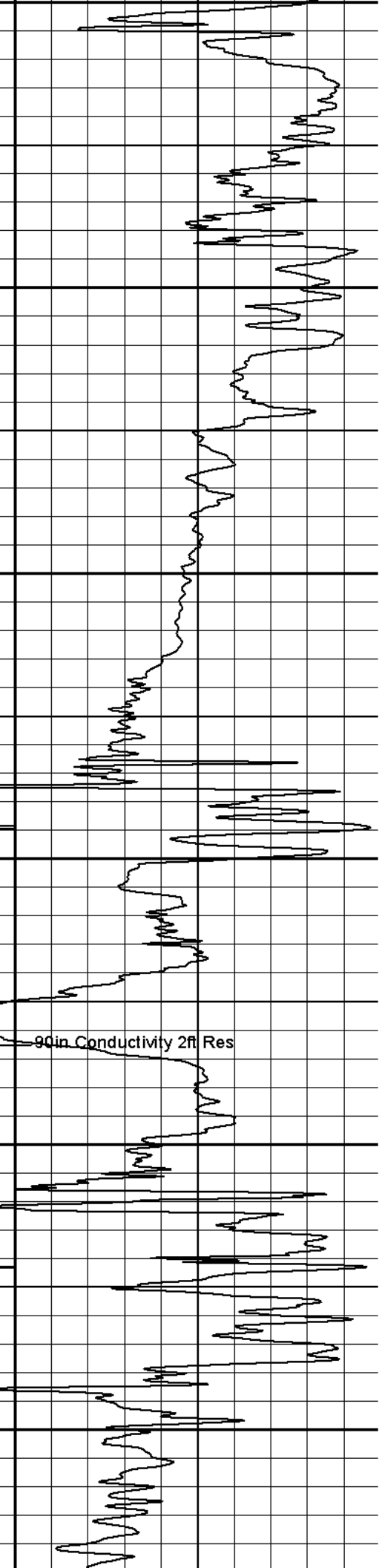
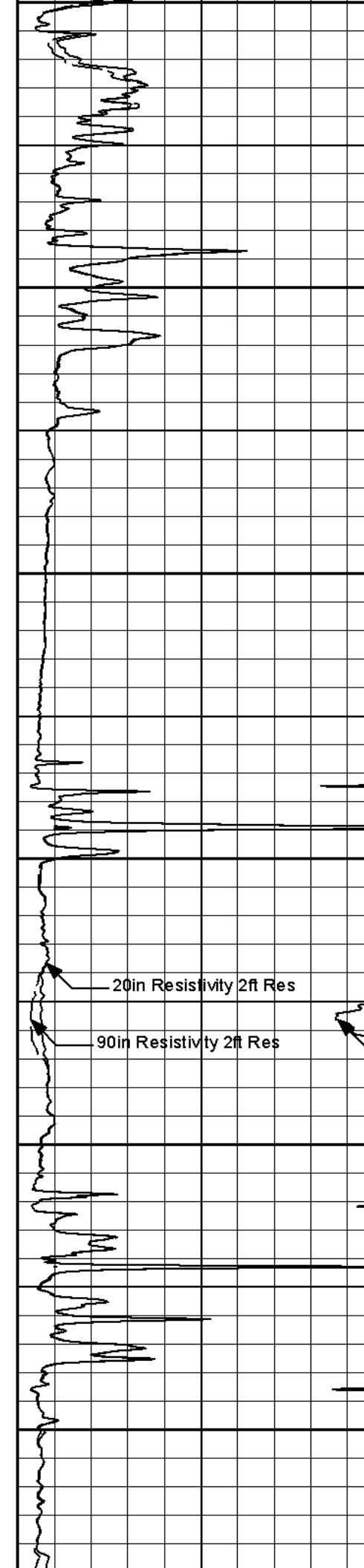
90in Resistivity 2ft Res

90in Conductivity 2ft Res





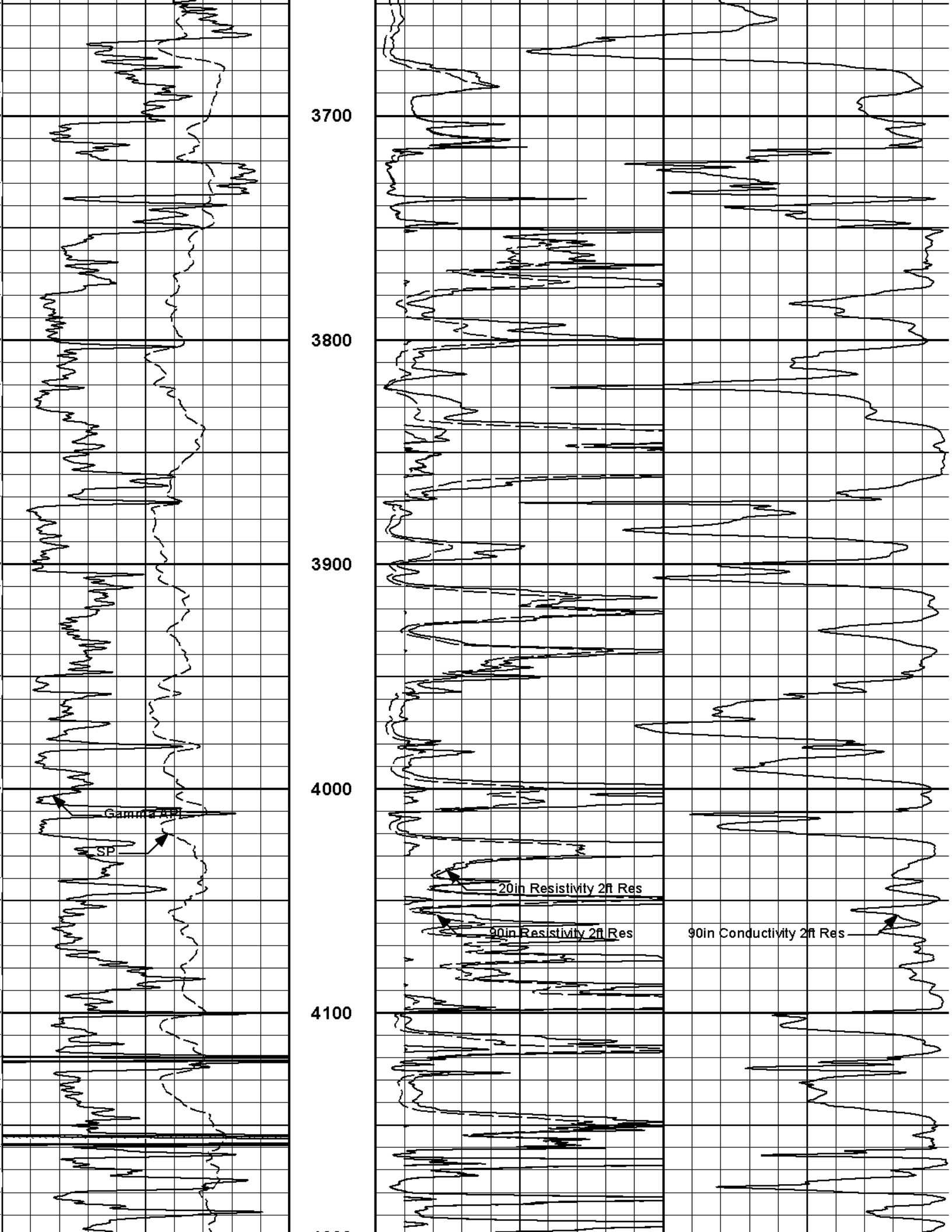
3100  
3200  
3300  
3400  
3500  
3600



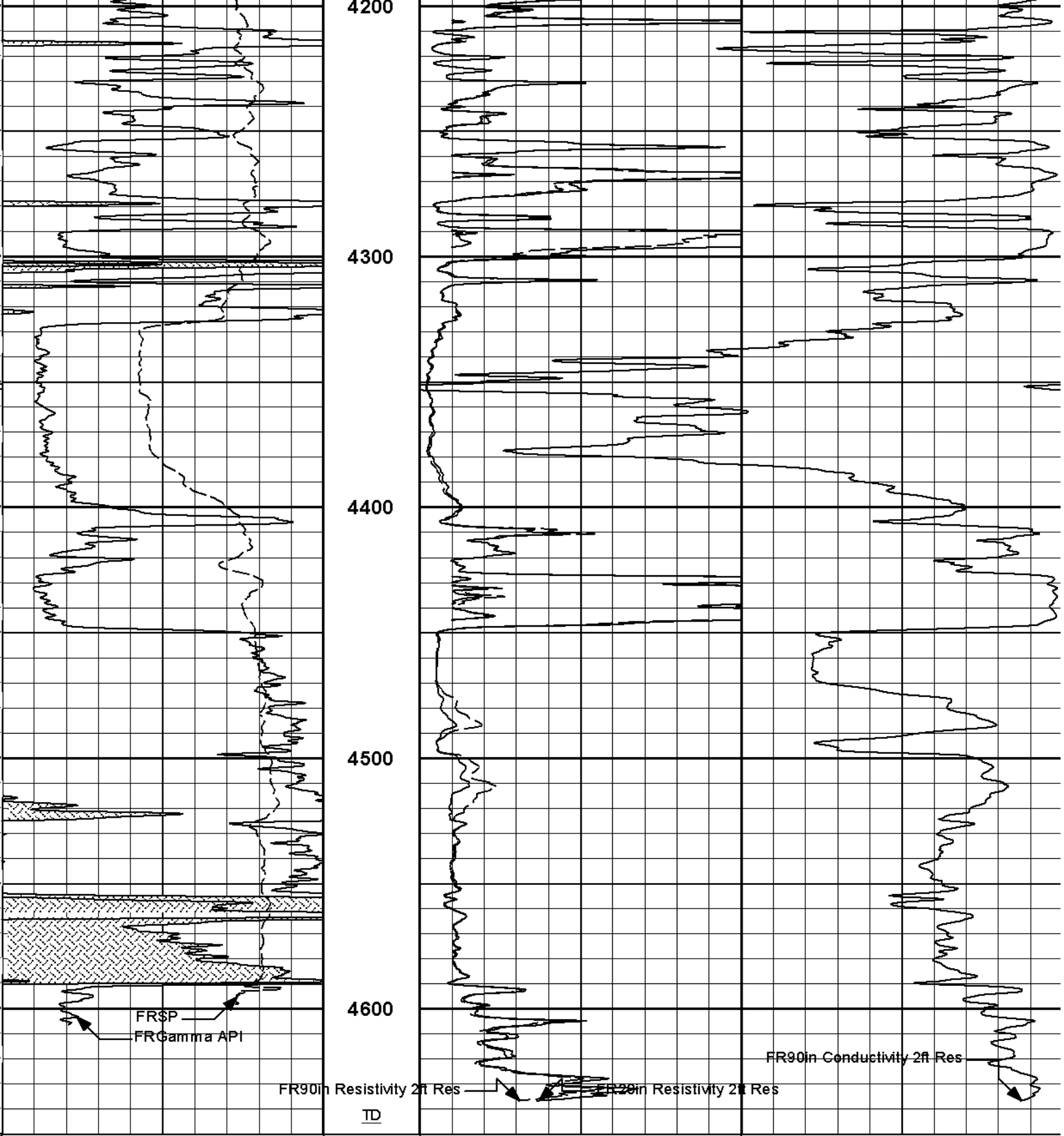
Gamma API  
SP

20in Resistivity 2ft Res  
90in Resistivity 2ft Res

90in Conductivity 2ft Res







0	Gamma API	150
	api	
	SP	
	-]20[+	

MD  
1 : 600  
ft

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

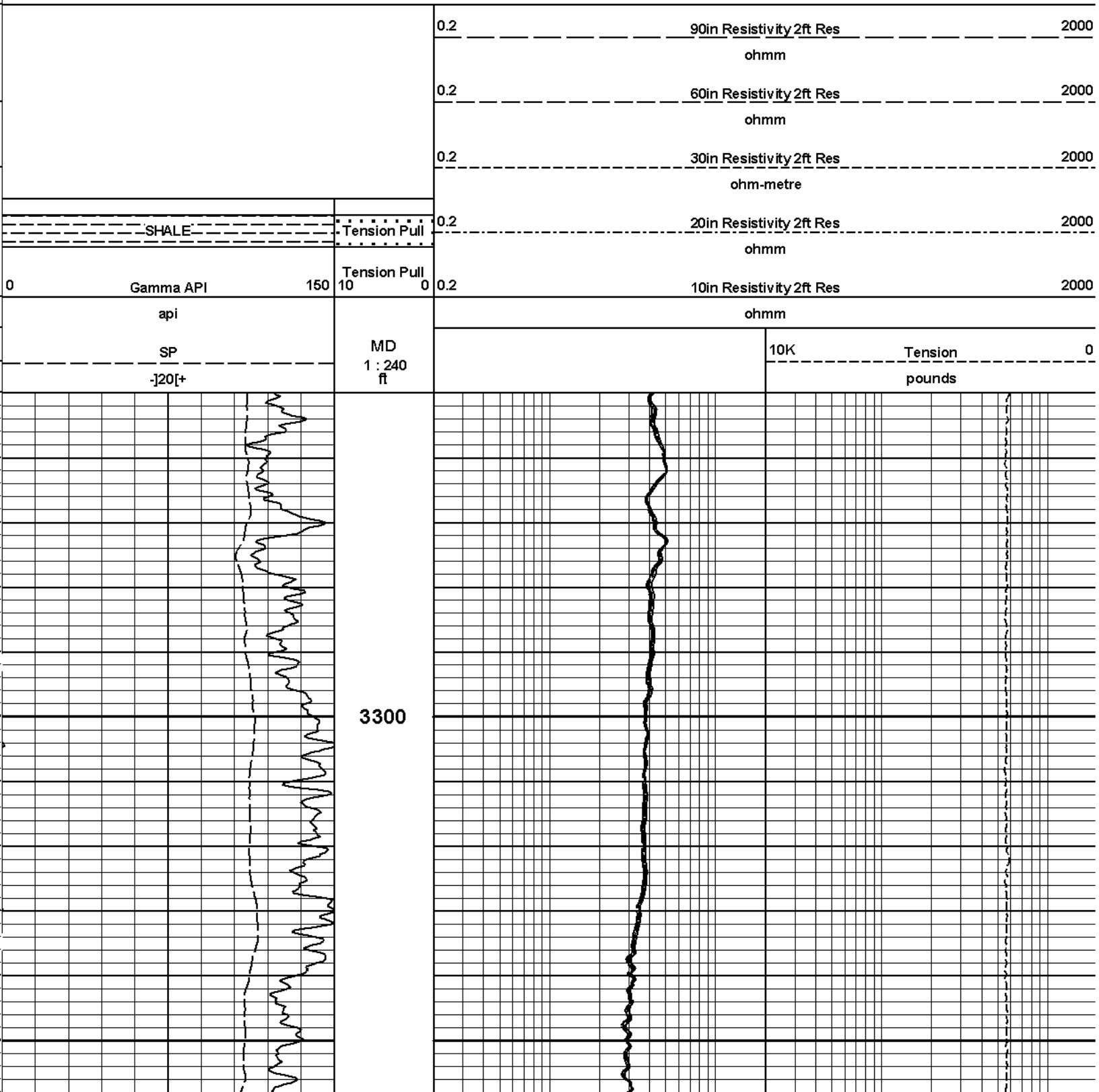
1000	90in Conductivity 2ft Res	0
	mmho per metre	

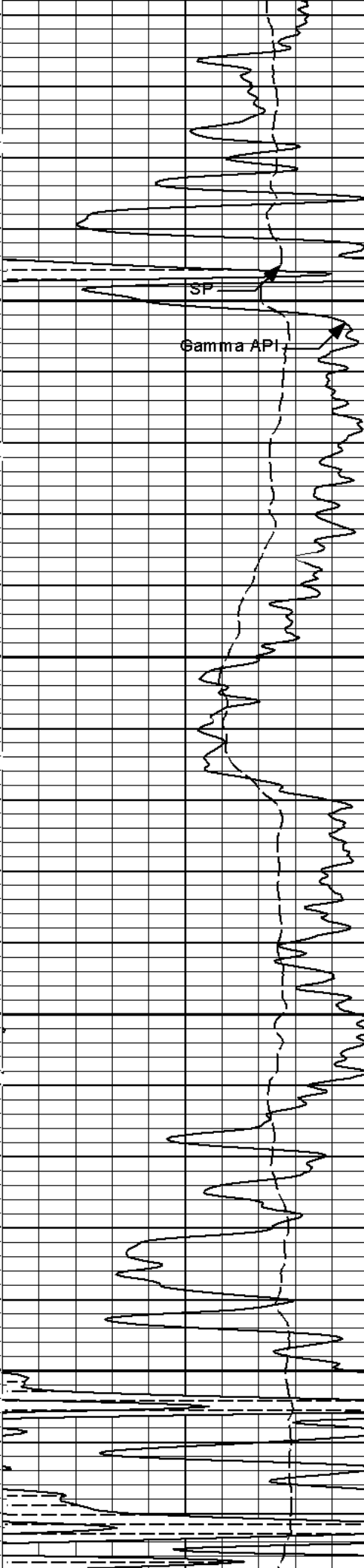
# 2 INCH MAIN LOG

**HALLIBURTON**

Plot Time: 07-Jul-11 03:18:29  
 Plot Range: 3250 ft to 4650.17 ft  
 Data: WHELAN\_V1\_29\Well Based\DAQ-0001-0031  
 Plot File: \\LOCAL-WHELAN\_V1\_29\Well Based\ACRT\ACRT\_5\_main\_lib

# 5 INCH MAIN LOG





3400

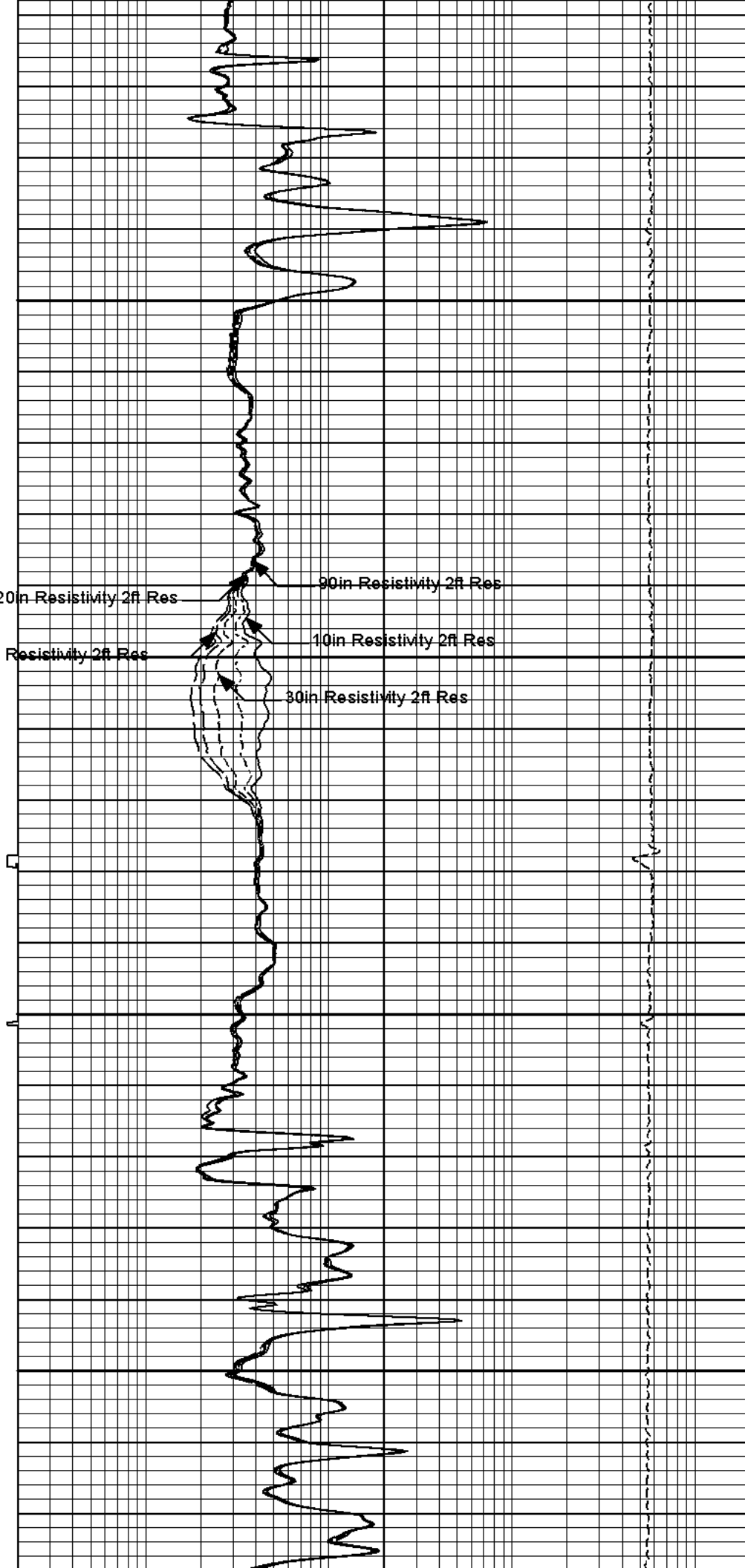
SP

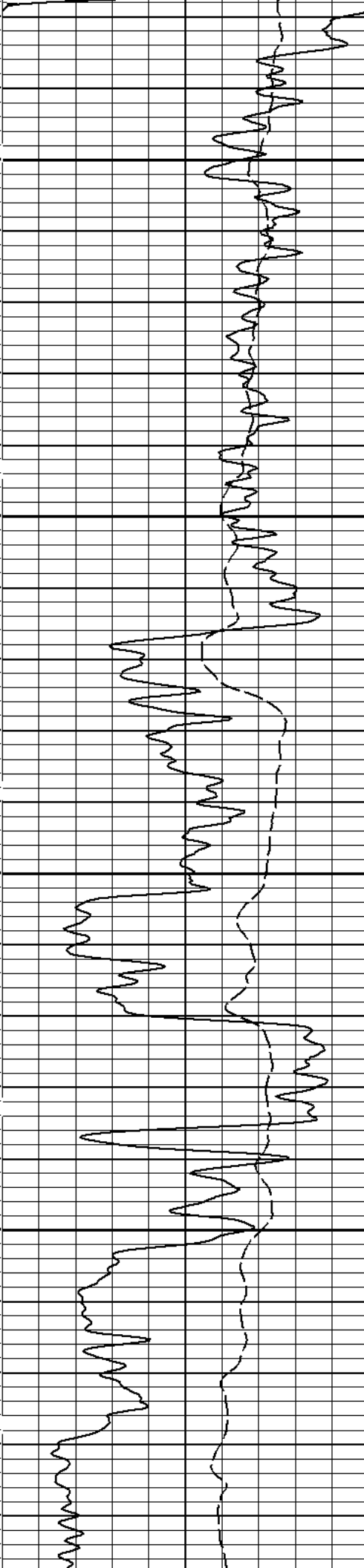
Gamma API

3500

20in Resistivity 2ft Res  
60in Resistivity 2ft Res

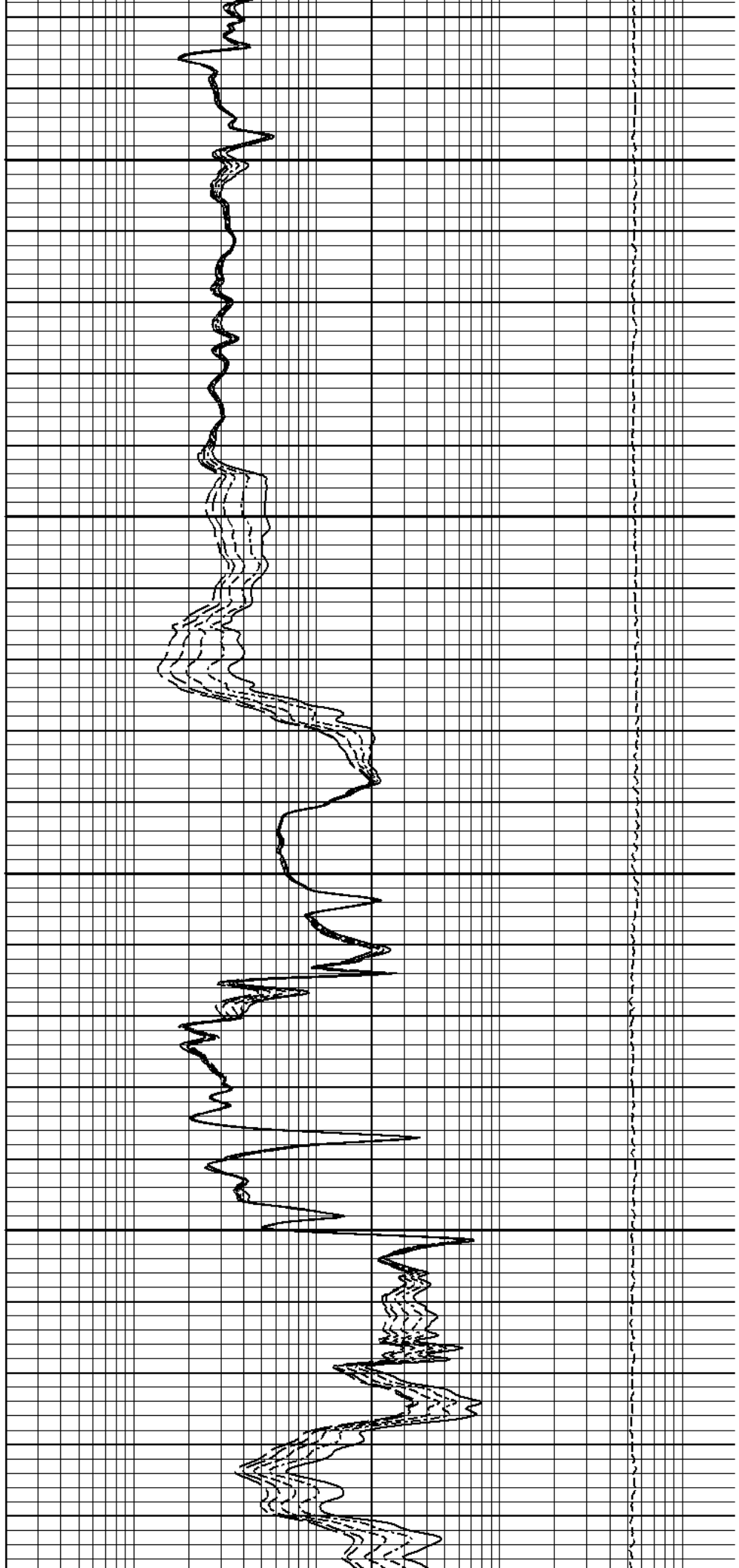
90in Resistivity 2ft Res  
10in Resistivity 2ft Res  
30in Resistivity 2ft Res

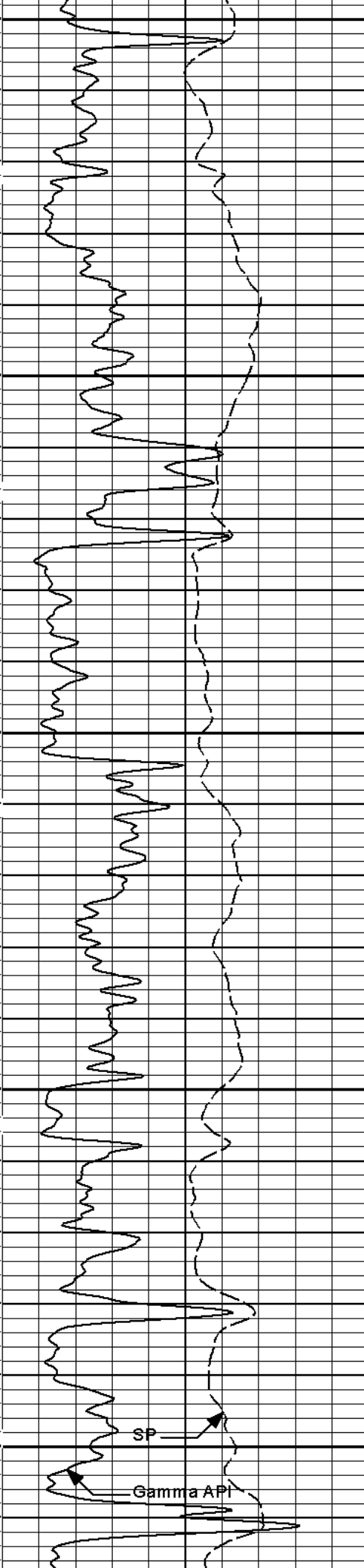




3600

3700





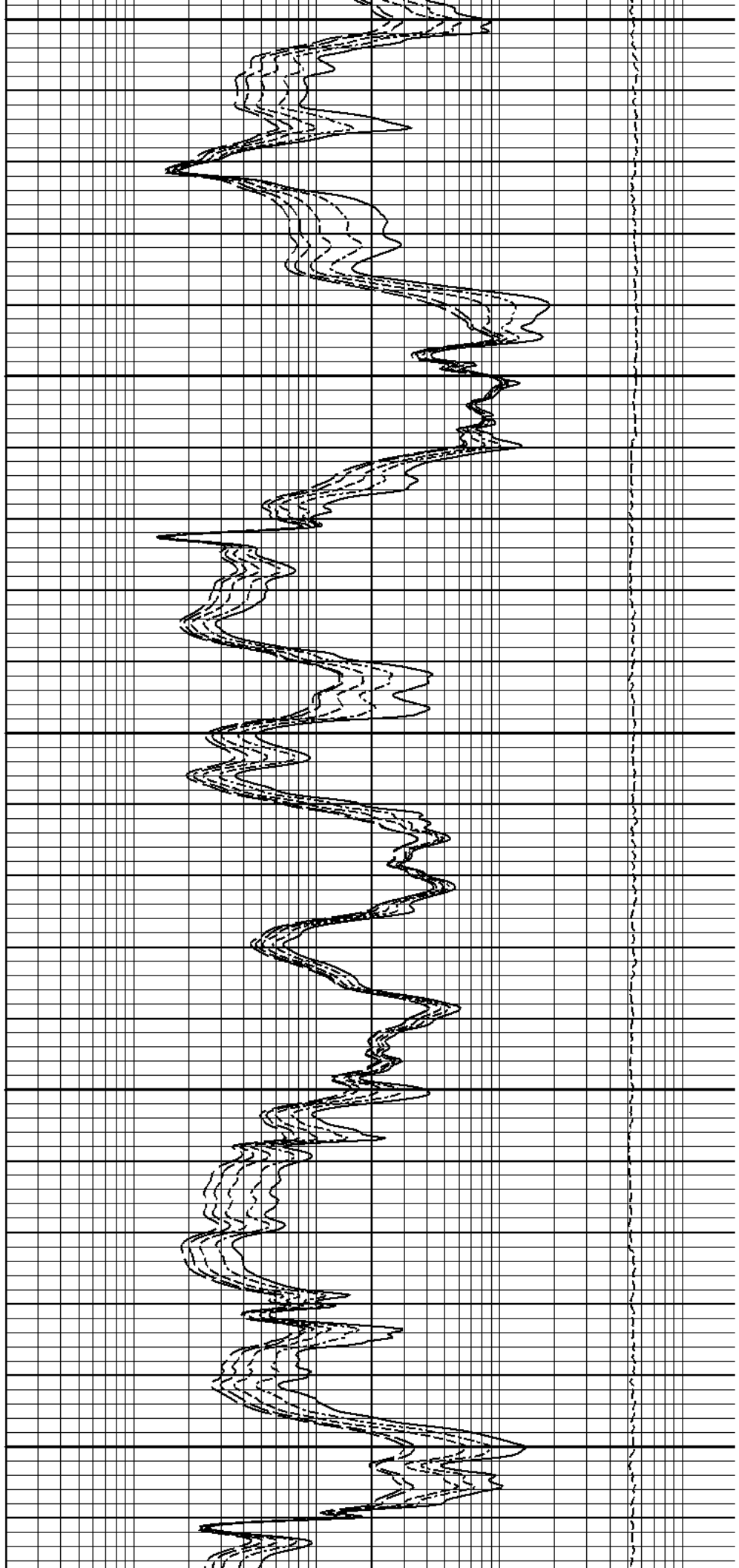
3800

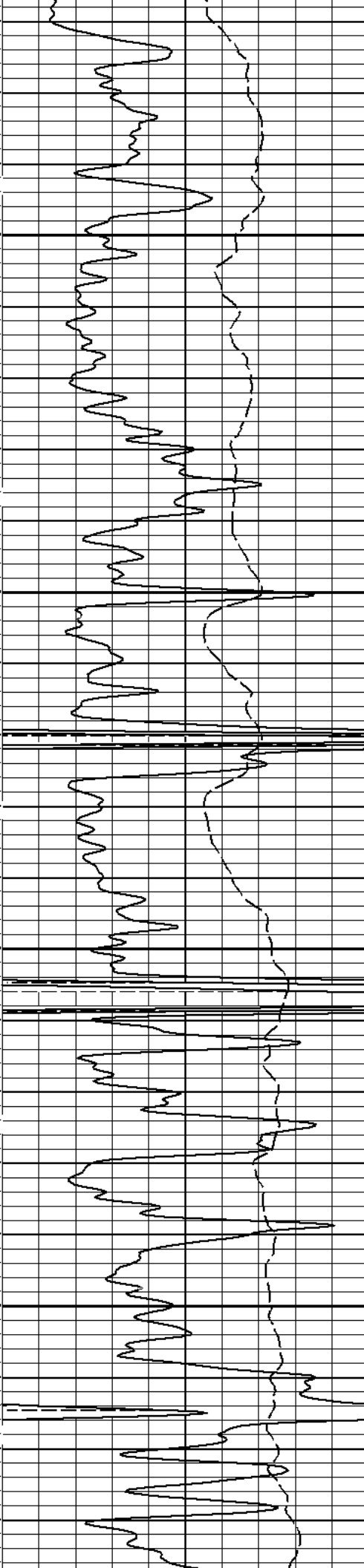
3900

4000

SP

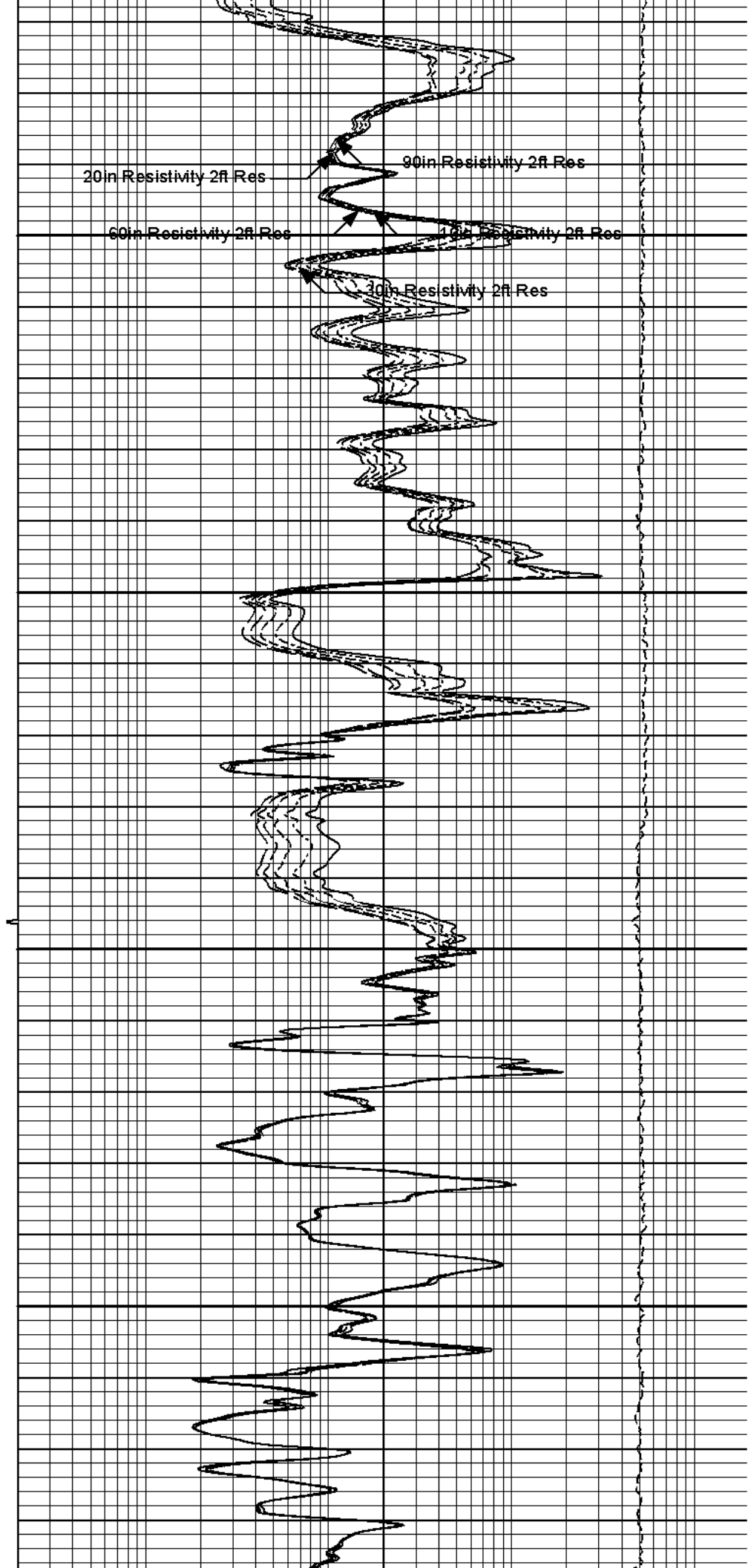
Gamma API

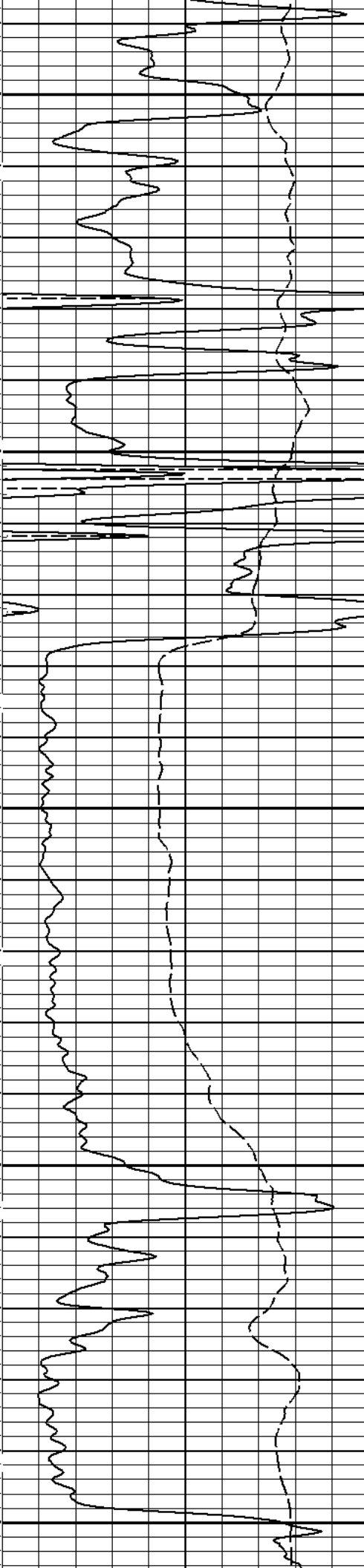




4100

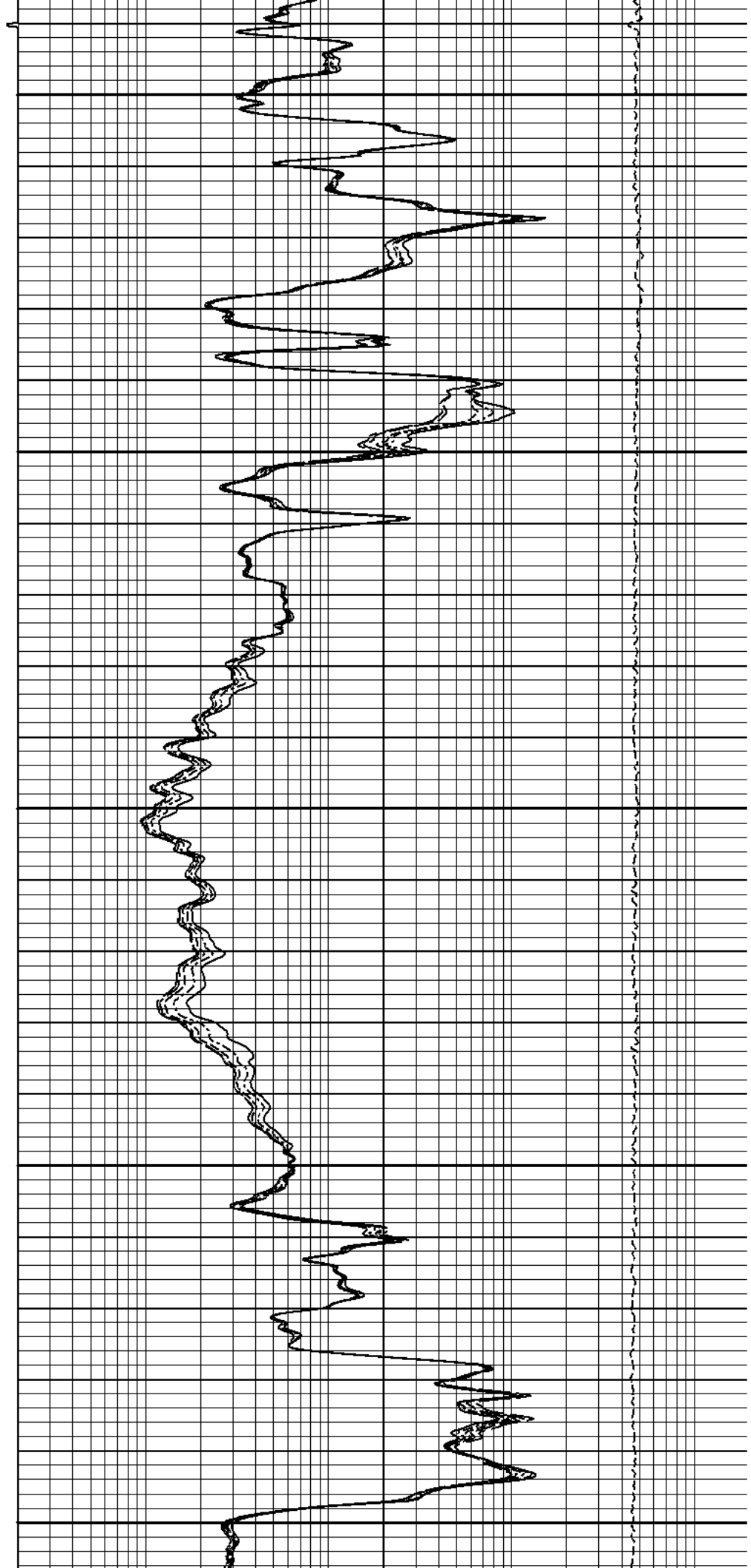
4200



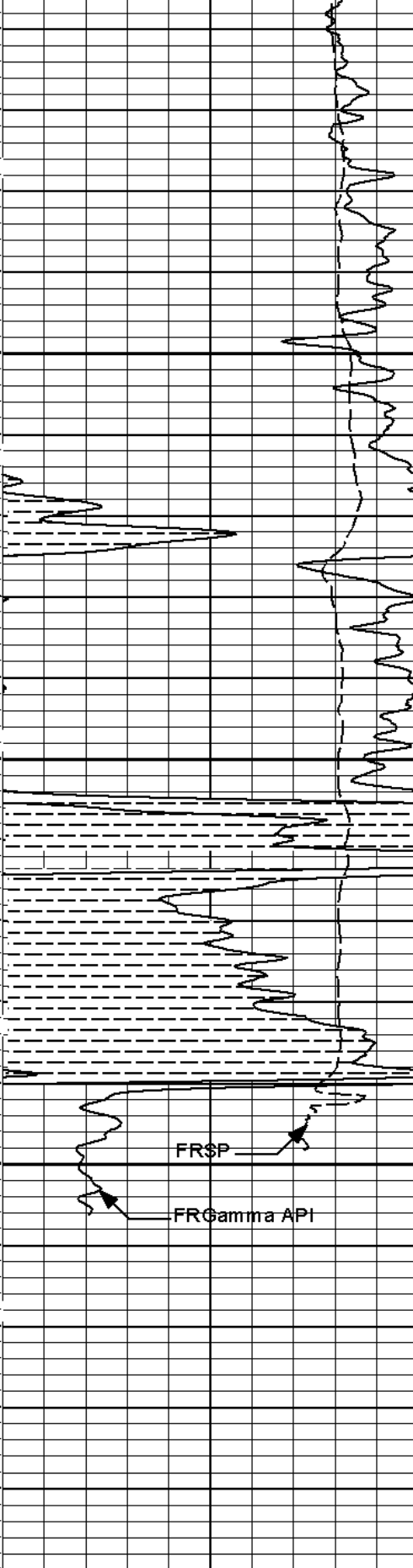


4300

4400



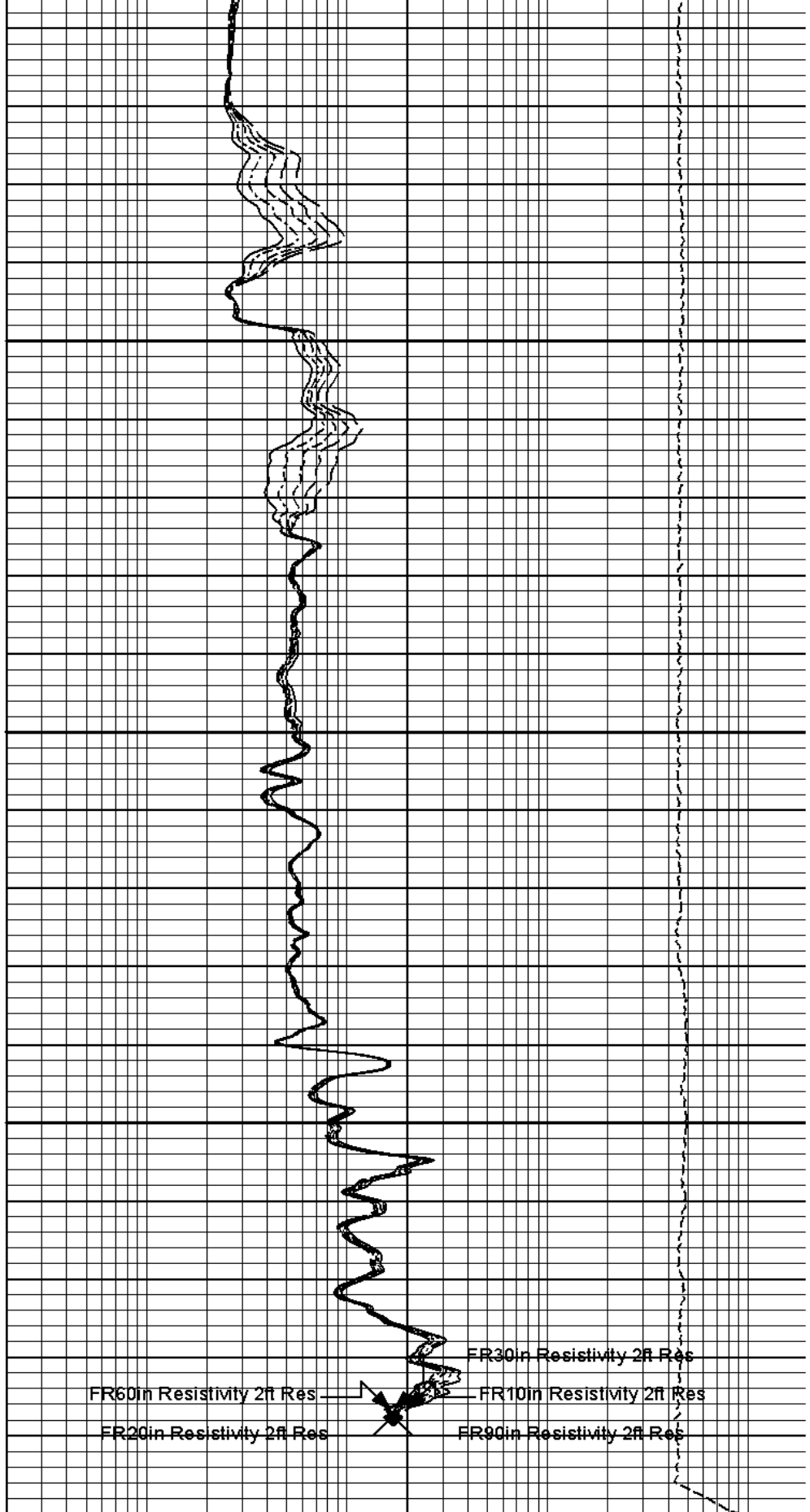




4500

4600

TD



FR60in Resistivity 2ft Res  
FR20in Resistivity 2ft Res

FR30in Resistivity 2ft Res  
FR10in Resistivity 2ft Res  
FR90in Resistivity 2ft Res

SP	MD	10K	Tension	0
-]20[+	1 : 240		pounds	
Gamma API	Tension Pull	0.2	10in Resistivity 2ft Res	2000
api			ohmm	
SHALE	Tension Pull	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**

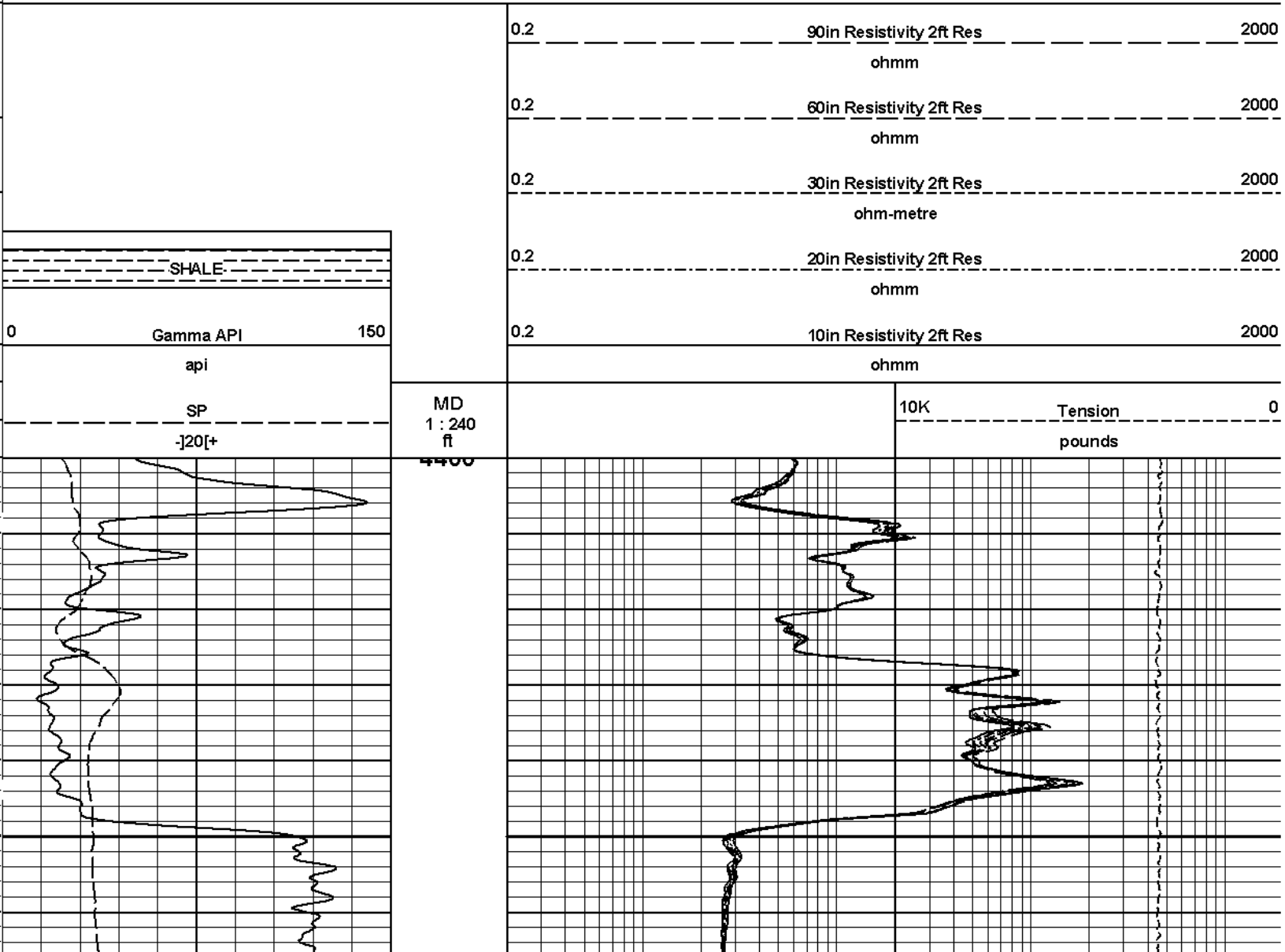
Plot Time: 07-Jul-11 03:18:35  
 Plot Range: 3250 ft to 4650.17 ft  
 Data: WHELAN\_V1\_29\Well Based\DAQ-0001-003\  
 Plot File: \\LOCAL-WHELAN\_V1\_29\Well Based\ACRT\ACRT\_5\_main\_lib

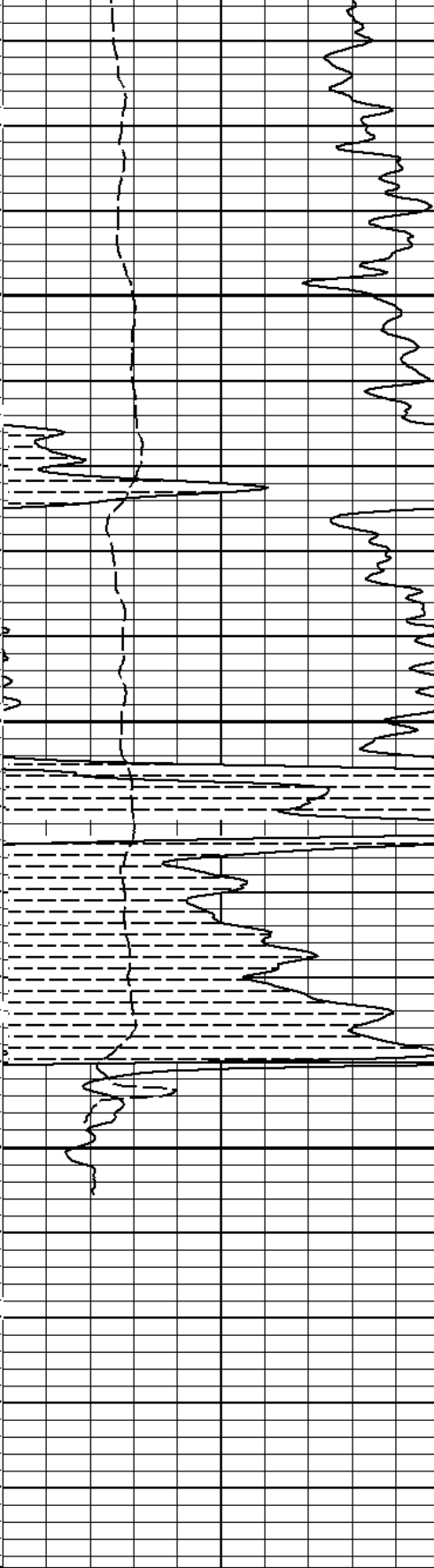
**5 INCH MAIN LOG**

**HALLIBURTON**

Plot Time: 07-Jul-11 03:18:35  
 Plot Range: 4400 ft to 4649.42 ft  
 Data: WHELAN\_V1\_29\Well Based\DAQ-0001-002\  
 Plot File: \\LOCAL-WHELAN\_V1\_29\Well Based\ACRT\ACRT\_5\_repeat\_lib

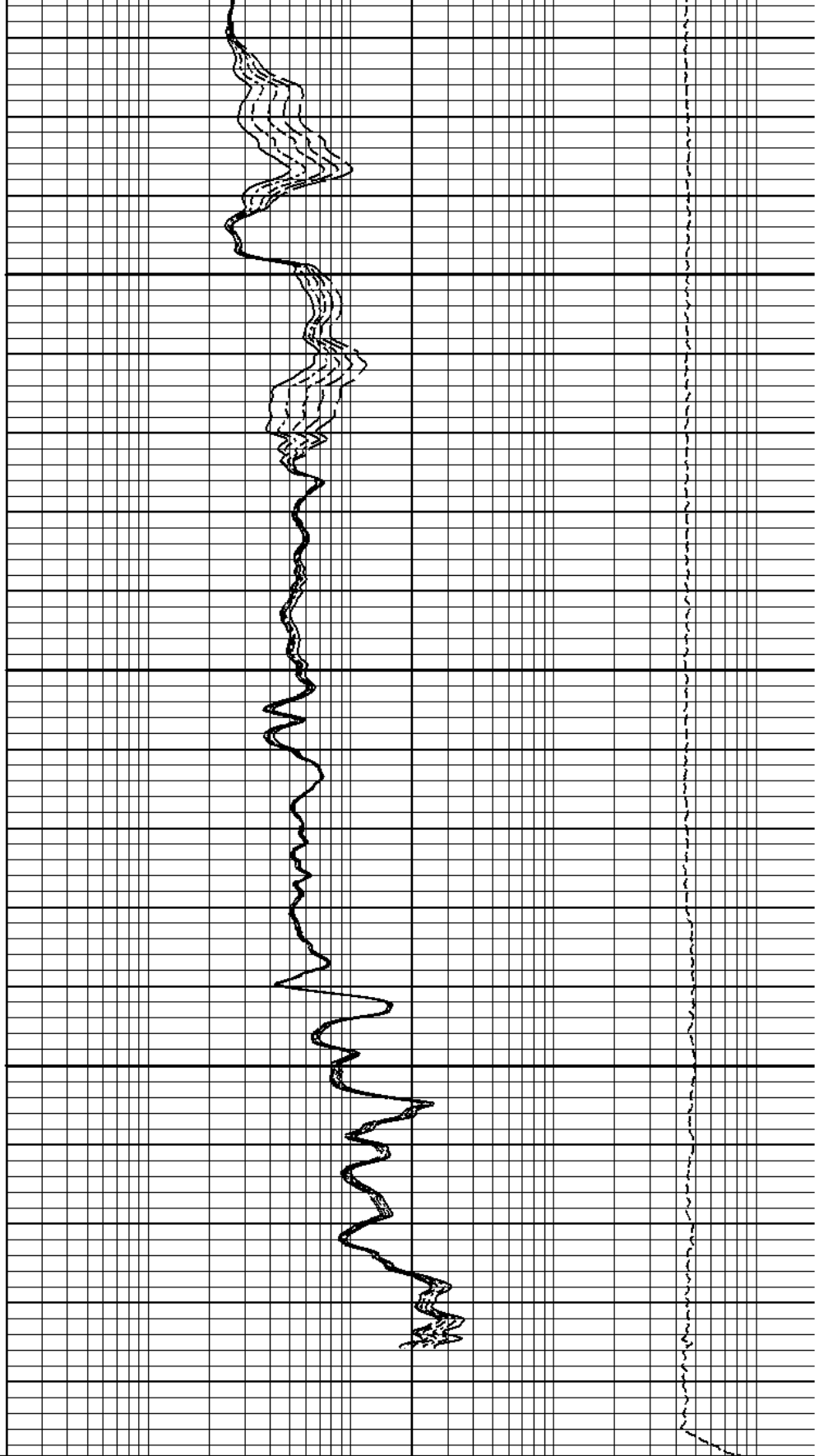
**REPEAT SECTION**





4500

4600



SP -]20[+	MD 1 : 240 ft	10K	Tension pounds	0
0      Gamma API      150 api	0.2      10in Resistivity 2ft Res      2000 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**

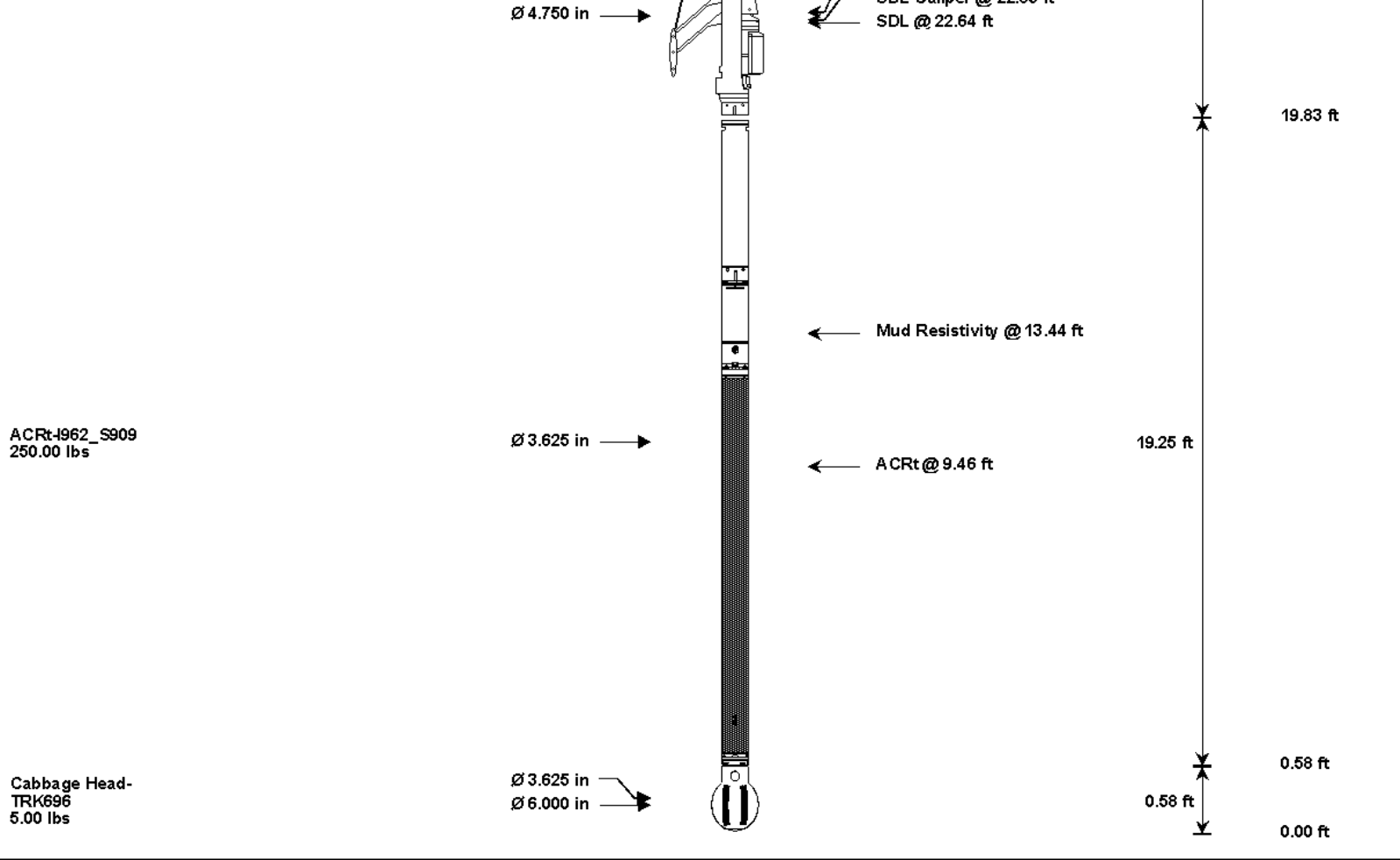
Plot Time: 07-Jul-11 03:18:40  
 Plot Range: 4400 ft to 4649.42 ft  
 Data: WHELAN\_V1\_29\Well Based\DAQ-0001-0021  
 Plot File: \\LOCAL\WHELAN\_V1\_29\Well Based\ACRT\ACRT\_5\_repeat.lib

## REPEAT SECTION

**HALLIBURTON**

### TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
CH_HOS-CH_696 37.50 lbs		Ø 2.750 in →		← Temperature @ 55.54 ft	3.03 ft	56.57 ft
XOHD-TRK696 20.00 lbs		Ø 2.750 in → Ø 3.625 in →		← SP @ 50.81 ft	0.95 ft	53.54 ft
SP Sub-PROT01 60.00 lbs		Ø 3.625 in →			3.74 ft	52.59 ft
GTET-11048627 165.00 lbs		Ø 3.625 in →		← GammaRay @ 42.79 ft	8.52 ft	48.85 ft
DSNT-11055304 174.00 lbs	DSN Decentralizer- 10755066 6.60 lbs	Ø 3.625 in → Ø 3.625 in →		← DSN Far @ 33.39 ft ← DSN Near @ 32.64 ft	9.69 ft	40.33 ft
SDLT-104_P84 360.00 lbs		Ø 4.500 in →		← SDL Microlog @ 22.83 ft ← SDL Caliner @ 22.65 ft	10.81 ft	30.64 ft



Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max. Log. Speed (fpm)
CH_HOS	Hostile Cable Head with Load Cell	CH_696	37.50	3.03	53.54	300.00
XOHD	Hostile to Dits Cross Over	TRK696	20.00	0.95	52.59	300.00
SP	SP Sub	PROT01	60.00	3.74	48.85	300.00
GTET	Gamma Telemetry Tool	11048627	165.00	8.52	40.33	60.00
DSNT	Dual Spaced Neutron	11055304	174.00	9.69	30.64	60.00
DCNT	DSN Decentralizer	10755066	6.60	5.13	33.97	300.00
SDLT	Spectral Density Tool	I04_P84	360.00	10.81	19.83	60.00
ACRt	Array Compensated True Resistivity	I962_S909	250.00	19.25	0.58	300.00
CBHD	Cabbage Head	TRK696	5.00	0.58	0.00	300.00
<b>Total</b>			<b>1,078.10</b>	<b>56.57</b>		

\* Not included in Total Length and Length Accumulation.

Data: WHELAN\_V1\_29\0001 SP-GTET-DSN-SDL-ACRT-CHIDLE Date: 07-Jul-11 00:08:41

# HALLIBURTON

## CALIBRATION REPORT

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION			
Tool Name:	ACRt - I962_S909	Reference Calibration Date:	03-May-11 14:28:43
Engineer:	C. MARLOWE	Calibration Date:	14-Jun-11 12:22:56
Software Version:	WL INSITE R3.2.5 (Build 2)	Calibration Version:	1

Subarray	TYPICAL GAIN RANGE								
	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.0092	1.05	0.95	1.0164	1.05	0.95	1.0153	1.05
A2 (50")	0.95	1.0324	1.05	0.95	1.0414	1.05	0.95	1.0436	1.05

A2 (50")	0.95	1.0024	1.05	0.95	1.0414	1.05	0.95	1.0455	1.05
A3 (29")	0.95	1.0045	1.05	0.95	1.0103	1.05	0.95	1.0089	1.05
A4 (17")	0.95	1.0048	1.05	0.95	1.0097	1.05	0.95	1.0101	1.05
A5 (10")	N/A	N/A	N/A	0.95	1.0198	1.05	0.95	1.0193	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9973	1.05	0.95	0.9969	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	-0.654	2	-6	-3.605	-2	-8	-4.455	-2
A2 (50")	-7	-1.760	-1	-6	-3.423	-2	-7	-4.210	-2
A3 (29")	-27	-14.677	-9	-9	-4.421	-3	-7	-2.557	-1
A4 (17")	-180	-101.481	-60	-45	-31.116	-15	-39	-26.047	-13
A5 (10")	N/A	N/A	N/A	-150	-101.037	-50	-80	-45.913	-10
A6 (6")	N/A	N/A	N/A	175	286.578	525	90	150.035	270

**TRANSMITTER CURRENT GAIN**

**R-MUD VERIFICATION**

Signal	Lower	R	Upper	Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
12K	0.6	0.9283	1.3	Mud Cell	0.95	1.002	1.05
36K	1.0	1.3668	2.0				
72K	1.0	1.5818	2.0				

**CALIBRATION SUMMARY**

Sensor	Shop	Field	Post	Difference	Tolerance	Units
<b>ACRT-I962_S909</b>						
Mud Cell	1.002	-----	-----	0.000	-----	ohm-m

Data: WHEL AN\_V1\_29\0001 SP-GTET-DSN-SDL-ACRT-CHUDLE

Date: 07-Jul-11 00:10:19

**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	
3240.00	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	9.000	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	0.330	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	4646.00	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	
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 Up	
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

Data: WHELAN\_V1\_2910001 SP-GTET-DSN-SDL-ACRT-CHIDDLE

Date: 07-Jul-11 01:53:51

# HALLIBURTON

## INPUTS, DELAYS AND FILTERS TABLE

Mnemonic	Input Description	Delay (ft)	Filter Type	Filter Length (ft)
<b>Depth Panel</b>				
TENS	Tension	0.00	NO	
<b>CH_HOS</b>				
DHTN	DownholeTension	0.00	BLK	0.000
<b>SP Sub</b>				
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	



		30.81	NO	
<b>GTET</b>				
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	
<b>DSNT</b>				
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	
<b>SDLT</b>				
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
<b>ACRt</b>				
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: WHELAN\_V1\_29\0001 SP-GTET-DSN-SDL-ACRT-CHIDLE

Date: 07-Jul-11 00:12:42

COMPANY VAL ENERGY INC

WELL WHELAN V1-29

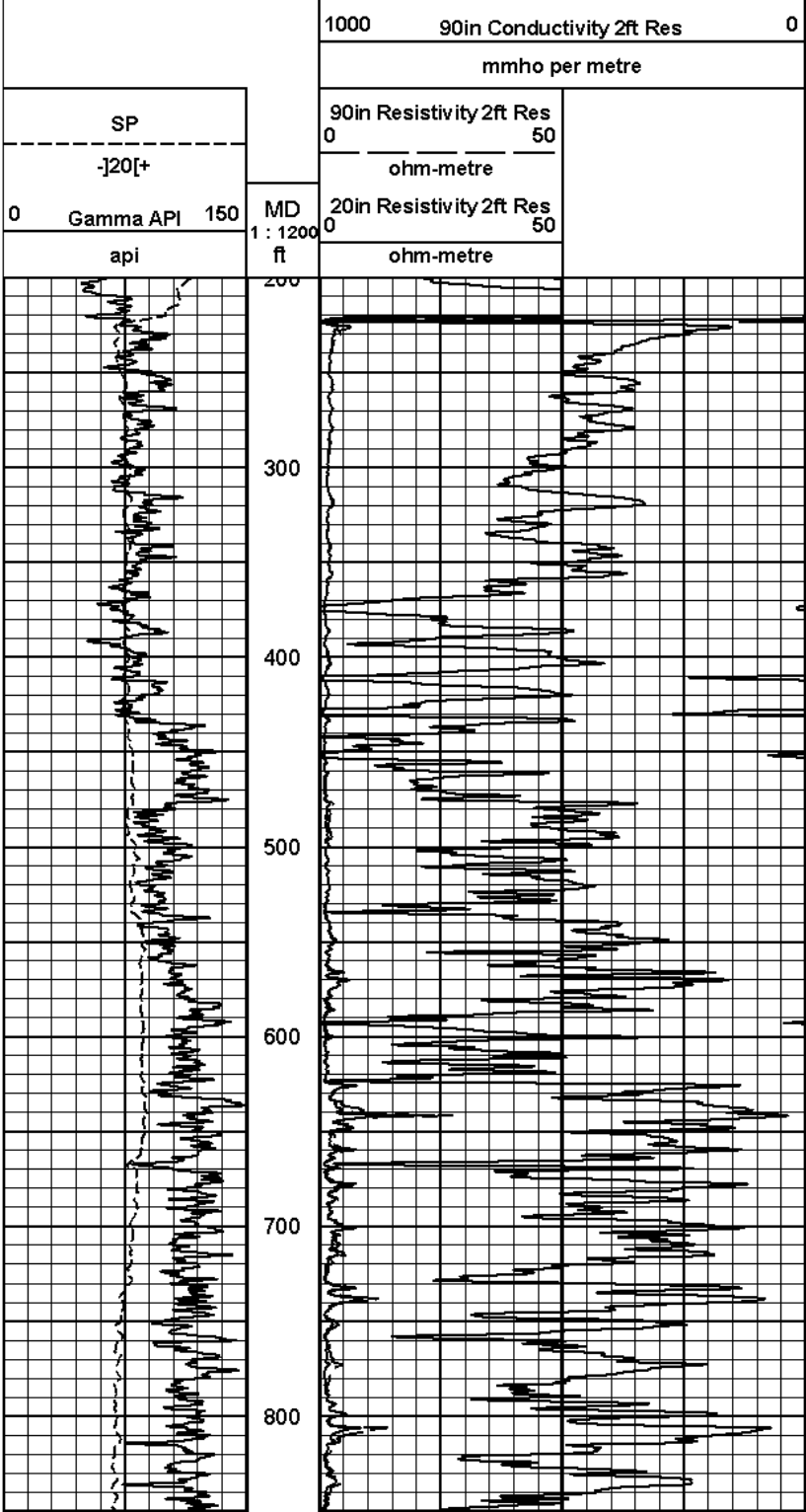
FIELD UNKNOWN

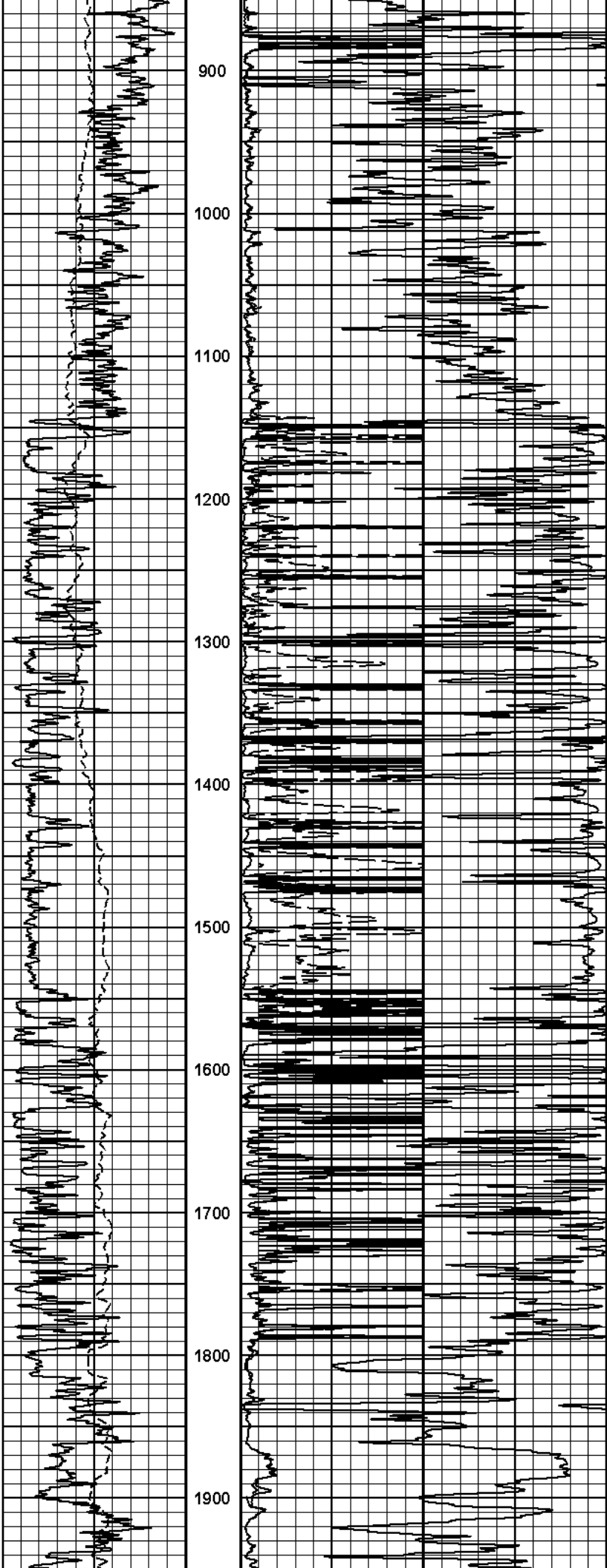
# HALLIBURTON

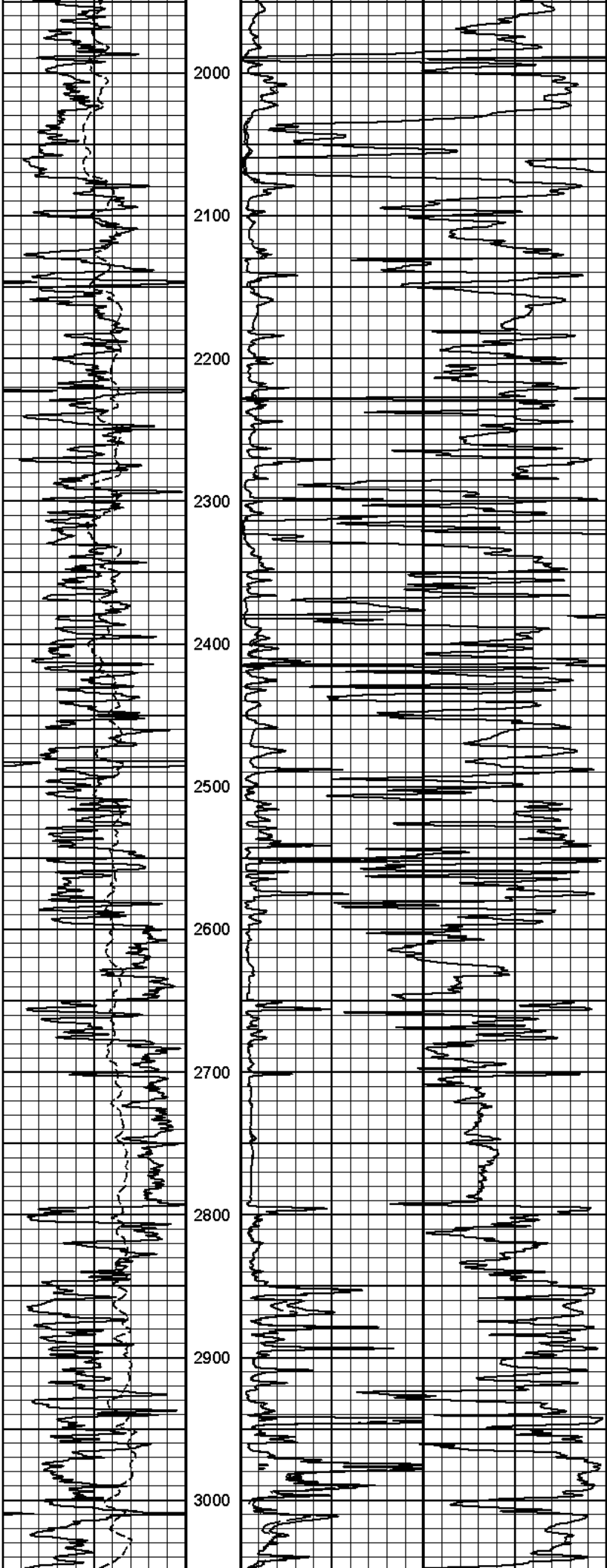
ARRAY COMPENSATED  
TRUE RESISTIVITY  
LOG

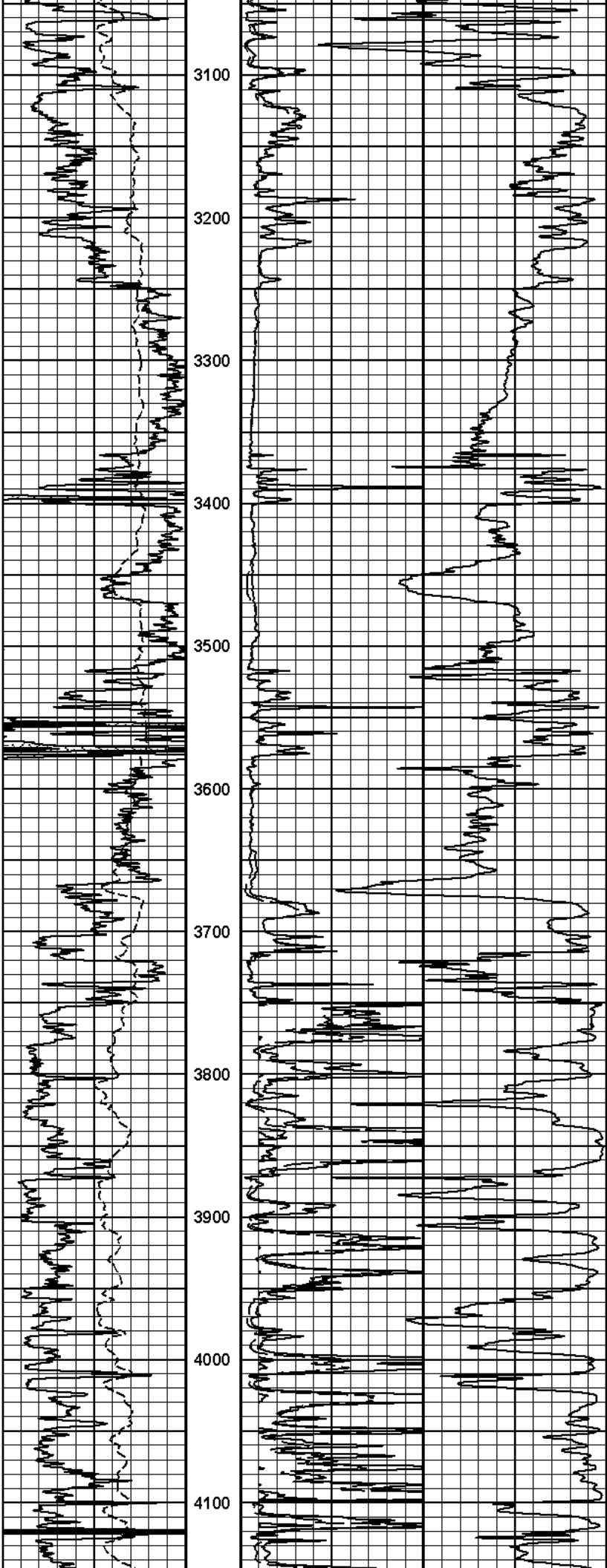
**HALLIBURTON**  
 Plot Time: 07-Jul-11 03:18:40  
 Plot Range: 200 ft to 4636.75 ft  
 Data: WHELAN\_V1\_29Well Based\DAQ-0001-003\  
 Plot File: II-LOCAL-WHELAN\_V1\_29Well Based\ACRT\ACRT\_1\_lib

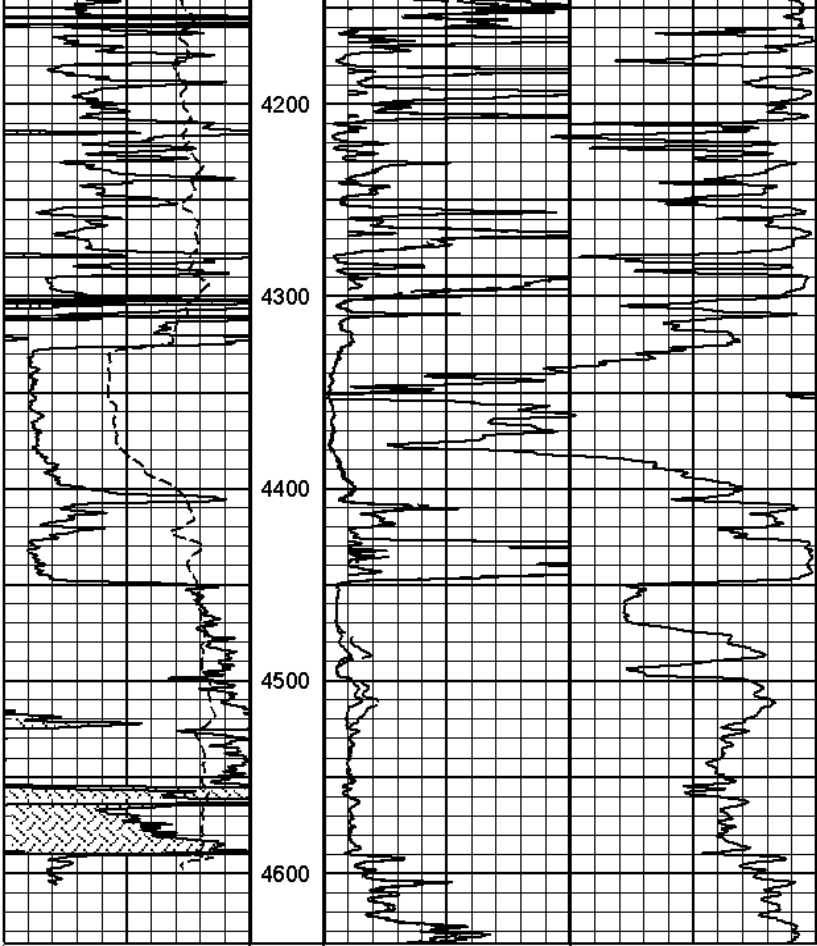
## 1 INCH MAIN LOG











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

**HALLIBURTON**

Plot Time: 07-Jul-11 03:18:44  
 Plot Range: 200 ft to 4636.75 ft  
 Data: WHELAN\_V1\_29\Well Based\DAQ-0001-0031  
 Plot File: \\-LOCAL-WHELAN\_V1\_29\Well Based\ACRT\ACRT\_1\_lib

**1 INCH MAIN LOG**