

Company: SG Interests I, LTD

Well: Falcon Seaboard 11-90-12 #3

Field: Bull Mountain #7819

County: Gunnison Country: US

Platform Express

Triple Combo

County:Gunnison

Field:Bull Mountain #7819

Location:SHL: S12, T11S, R90W

Well:Falcon Seaboard 11-90-12 #3

Company:SG Interests I, LTD

Location:SHL: S12, T11S, R90W  
1847' FSL & 1848' FWL  
LAT: 39.112410 / LONG: -107.399380

Elev.:K.B. 7548.60 ft  
G.L. 7531.00 ft  
D.F. 7547.60 ft

Permanent Datum:Ground Level

Elev.:7531.00 f

Log Measured From:Kelly Bushing

17.60 ft

above Perm.Datum

Drilling Measured From:Kelly Bushing

API Serial No.05-045-06045

Max.Hole Deviation

Longitude:107° 23' 57.768" W

Latitude:39° 6' 44.676" N

Logging Date	26-Jul-2015				
Run Number	ONE				
Depth Driller	9361.00 ft				
Schlumberger Depth	9365.00 ft				
Bottom Log Interval	9365.00 ft				
Top Log Interval	5517.00 ft				
Casing Driller Size @ Depth	9.625 in @ 5517.00 ft				
Casing Schlumberger	5517 ft				
Bit Size	8.5 in				
Type Fluid In Hole	Water				
Dens	Density	9.1 lbm/gal	45 s		
	Fluid Loss	PH	9.1		
MUD	Source of Sample				
RM @ Meas Temp	1.87 ohm.m @ 75 degF				
RMF @ Meas Temp	1.4 ohm.m @ 75 degF				
RMC @ Meas Temp	2.8 ohm.m @ 75 degF				
Source RMF	RMC		Pressed		
RM @ BHT	RMF @ BHT	0.58 @ 256	0.44 @ 256		
Max Recorded Temperatures			256 degF		
Circulation Stopped		Time	17:30:00		
Logger on Bottom		Time	05:12:00		
Unit Number	Location:	9108	Fort Morgan, CO		
Recorded By	Benjamin Mammon				
Witnessed By	Paul Welch				

Disclaimer

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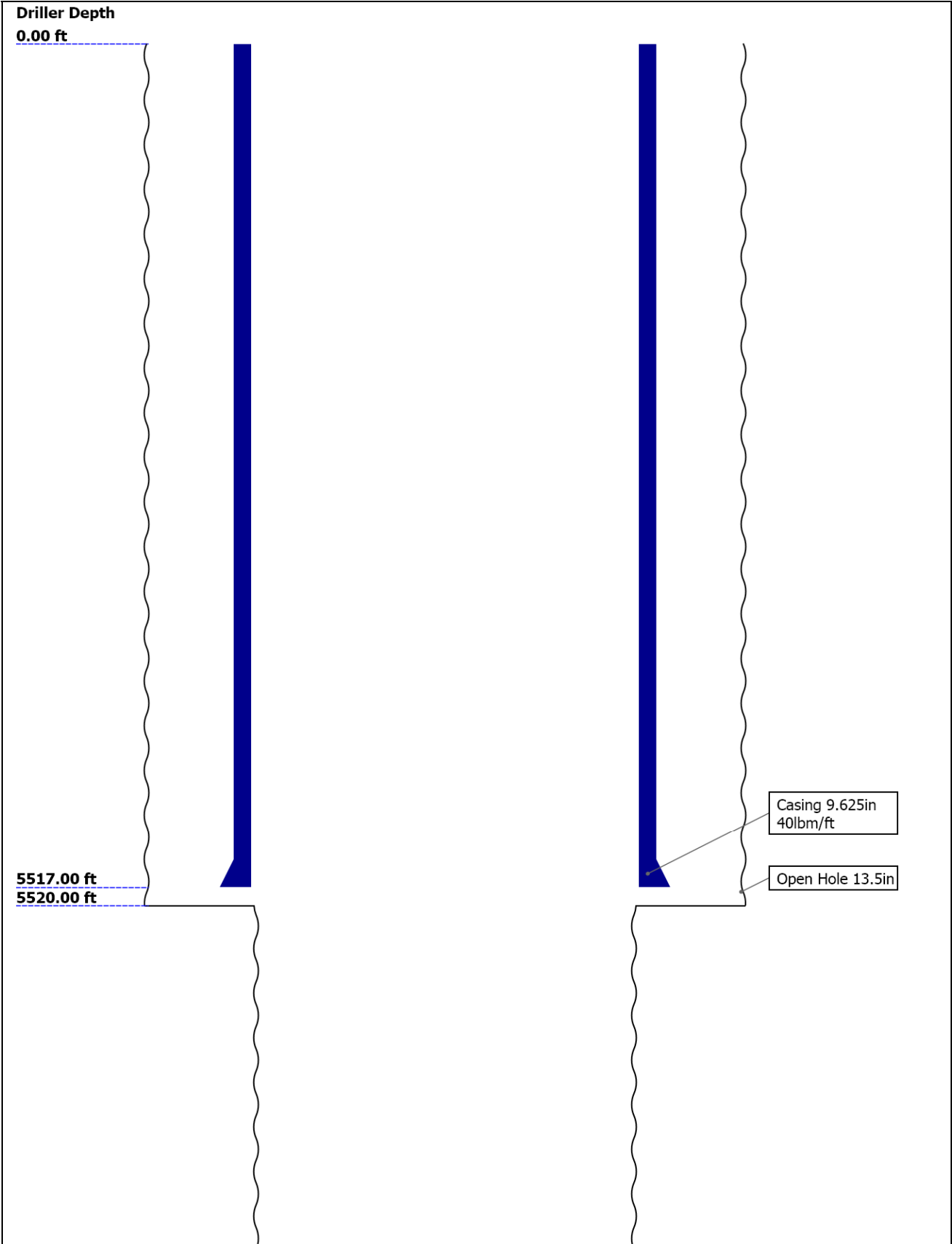
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Well Sketch





## Borehole Size/Casing/Tubing Record








Bit						
Bit Size ( in )	13.5	8.5				
Top Driller ( ft )	0	5520				
Top Logger ( ft )	0	5520				
Bottom Driller ( ft )	5520	9361				
Bottom Logger ( ft )	5520	9365				
Casing						
Size ( in )	9.625					
Weight ( lbm/ft )	40					
Inner Diameter ( in )	8.835					
Grade	J55					
Top Driller ( ft )	0					
Top Logger ( ft )	0					
Bottom Driller ( ft )	5517					
Bottom Logger ( ft )	5517					

## Operational Run Summary

Parameter ( unit )	ONE					
Date Log Started	26-Jul-2015					
Time Log Started	04:16:35					
Date Log Finished						
Time Log Finished						
Top Log Interval ( ft )						
Bottom Log Interval ( ft )						
Total Depth ( ft )	9365.00					
Max Hole Deviation ( deg )						
Azimuth of Max Deviation ( deg )						
Bit Size ( in )	8.500					
Logging Unit Number	9108					
Logging Unit Location	Fort Morgan, CO					
Recorded By	Benjamin Marmon					

Witnessed By	Paul Welch					
Service Order Number	D5ND-00080					

Remarks and Equipment Summary

ONE: Toolstring				ONE: Remarks	
<div><div>Equip name</div><div>LEH-QT:2868</div><div>LEH-QT:2868</div></div>	<div><div>Length</div><div>43.57</div></div>		<div><div>MP name</div><div>Offset</div></div>	This is the second run in the hole.	
				Toolstring run as per toolsketch.	
				Log correlated to previous Schlumber GR log 8-Jul-2015	
<div><div>DTC-H</div><div>ECH-KC</div><div>DTC-H</div></div>	<div><div>Length</div><div>40.65</div></div>		<div><div>CTEM HV</div><div>39.75</div><div>0.00</div></div>	Matrix: Sandstone MDEN: 2.68 g/cc	
				TD: 9365' CS: 5517'	
<div><div>HGNS-H:4736</div><div>HGNH:2987</div><div>NSR-F:5069</div><div>NPV-N</div><div>HMCA-H</div><div>HGNS-H:4736</div><div>HACCZ-H:5118</div></div>	<div><div>Length</div><div>37.65</div></div>		<div><div>TelStatus</div><div>37.65</div><div>ToolStatus</div><div>37.65</div><div>Temperature</div><div>37.62</div></div>	Caliper Shift: -0.937"	
				BHT: 256 degF	
<div><div>HDRS-H:4819</div><div>ECH-MEB:3914</div><div>HRCC-H:4881</div><div>HRMS-H:4819</div><div>Short Spacing</div><div>Long Spacing</div><div>:28629</div><div>GPV-Q</div><div>Backscatter</div><div>GSR-J:5471</div><div>HRGD-H:3871</div></div>	<div><div>Length</div><div>28.24</div></div>		<div><div>CNL Porosity</div><div>30.57</div><div>HGNS</div><div>28.24</div><div>HMCA</div><div>28.24</div><div>Accelerometer</div><div>0.00</div></div>		
<div><div>AIT-H:398</div><div>AHIS:398</div><div>AHRM:398</div></div>	<div><div>Length</div><div>16.00</div></div>		<div><div>HRCC</div><div>24.24</div></div>		
			<div><div>MCFL</div><div>18.81</div><div>Caliper</div><div>18.33</div><div>TLD Density</div><div>17.94</div></div>		
			<div><div>Power Supply</div><div>7.91</div><div>Induction</div><div>7.91</div><div>Temperature</div><div>7.91</div></div>		

 <p>Lengths are in ft Maximum Outer Diameter = 6.000 in Line: Sensor Location, Value: Gating Offset All measurements are relative to TOOL_ZERO</p>			
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Depth Summary

	ONE		
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Depth Measuring Device

Type	IDW-JA		
Serial Number	6510		
Calibration Date	28-MAR-2015		
Calibrator Serial Number			
Calibration Cable Type	7-46 AXS		
Wheel Correction 1	-4		
Wheel Correction 2	-2		

Tension Device

Type	CMTD-B/A		
Serial Number	171		
Calibration Date	26-JUN-2015		
Calibrator Serial Number	123		
Number of Calibration Points	10		
Calibration Root Mean Square Error	13		
Calibration Peak Error	31		

Logging Cable

Type	7-46A-XS		
Serial Number	U714071		
Length	17500.00 ft		
Conveyance Type	Wireline		
Rig Type	Land		

ONE:Depth Control Parameters

Depth Control Remarks

Log Sequence	Subsequent Trip To the Well	All Schlumberger depth control procedures followed during logging operation.  IDW used as primary depth control.  Z-Chart used as secondary depth control.
Reference Log Name	Platform Express Triple Combo	
Reference Log Run Number	ONE	
Reference Log Date	08-Jul-2015	
Subsequent Trip Down Log Correction	3.50 ft	

ONE

5" Triple Combo

Software Version

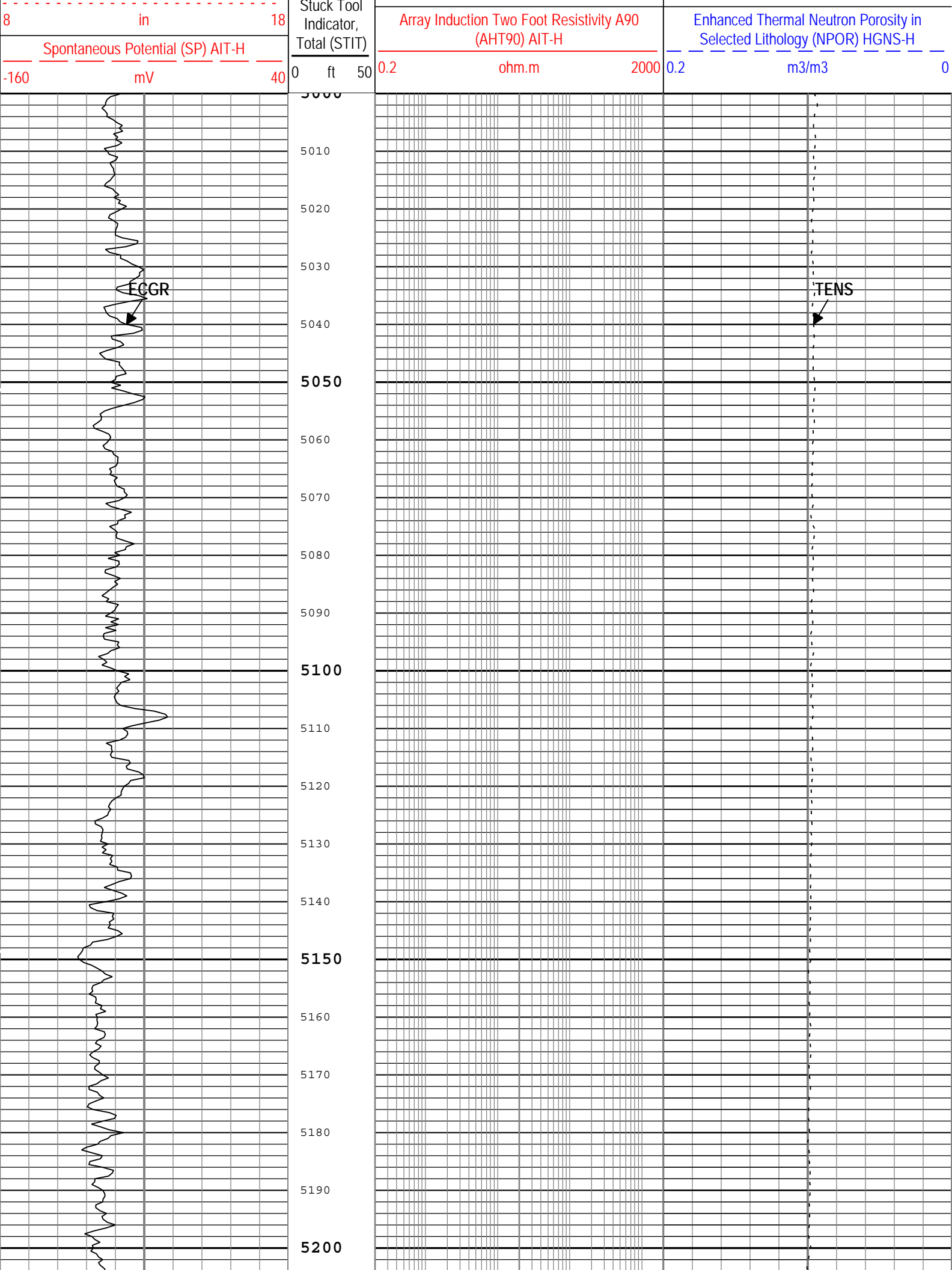
Acquisition System	Version
Maxwell 2014 SP3	5.3.45427.3100

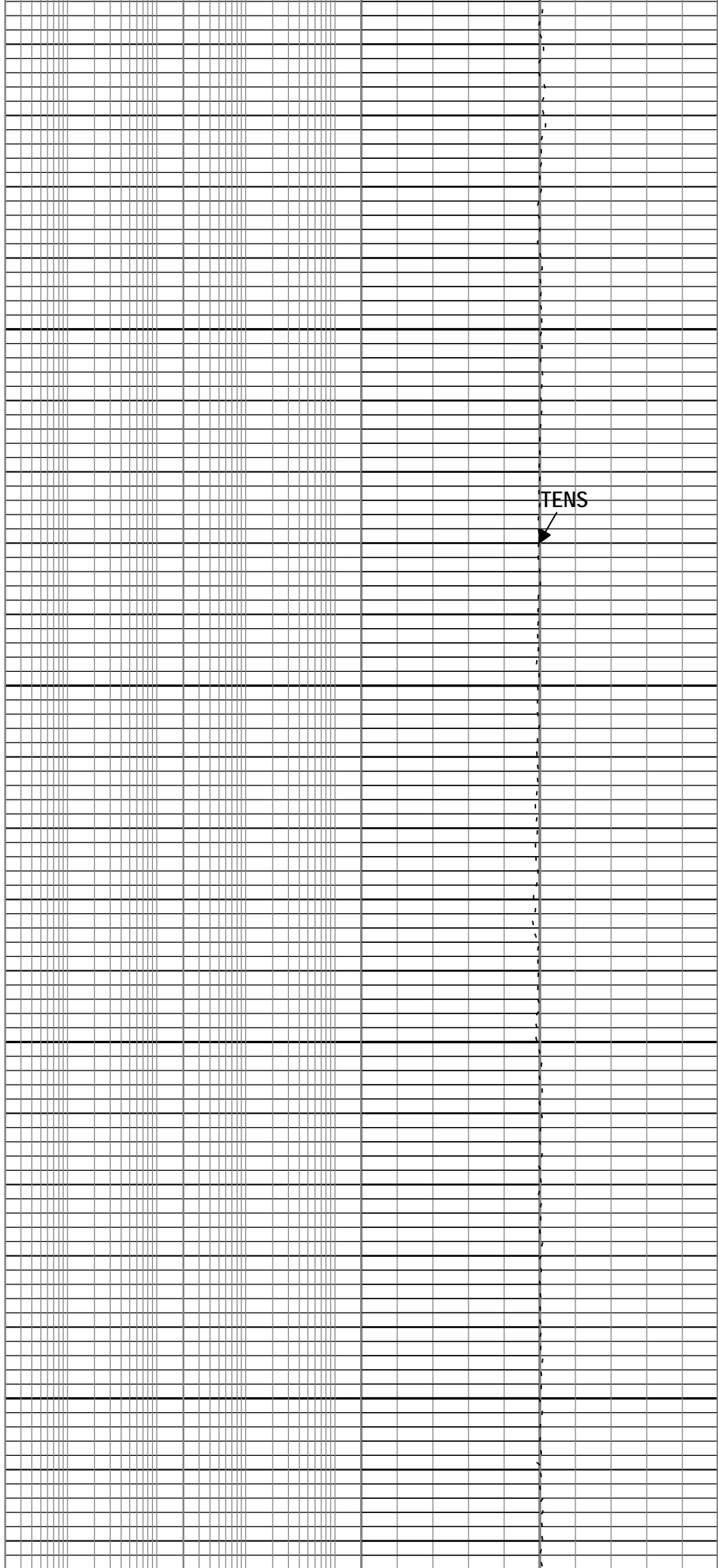
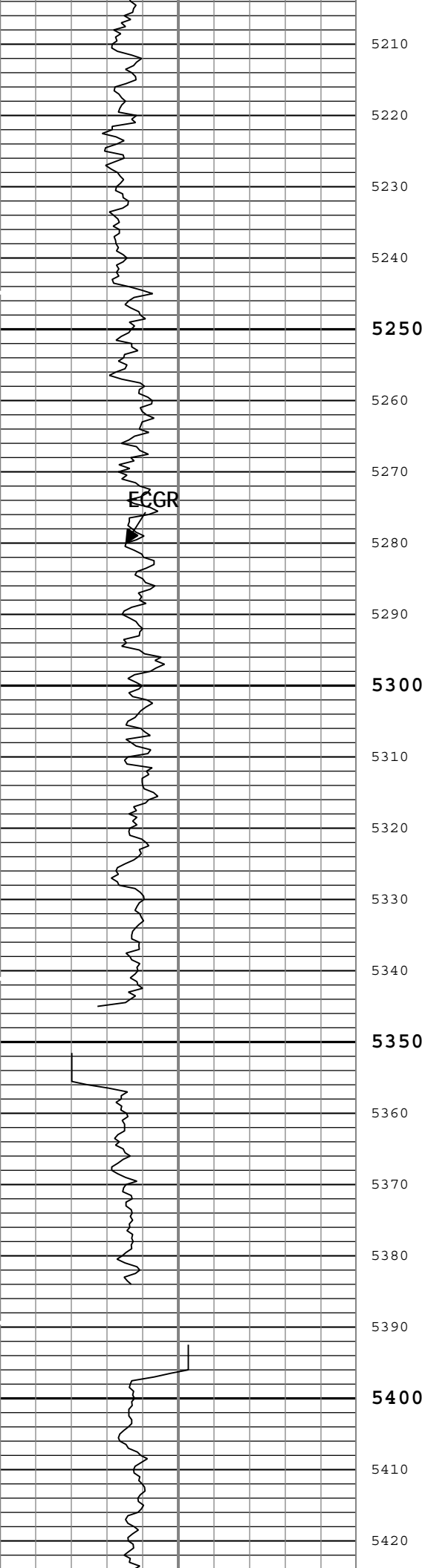
Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[3]:Up	Up	4317.40 ft	9382.68 ft	26-Jul-2015 5:29:57 AM	26-Jul-2015 6:53:19 AM	ON	0.00 ft	No

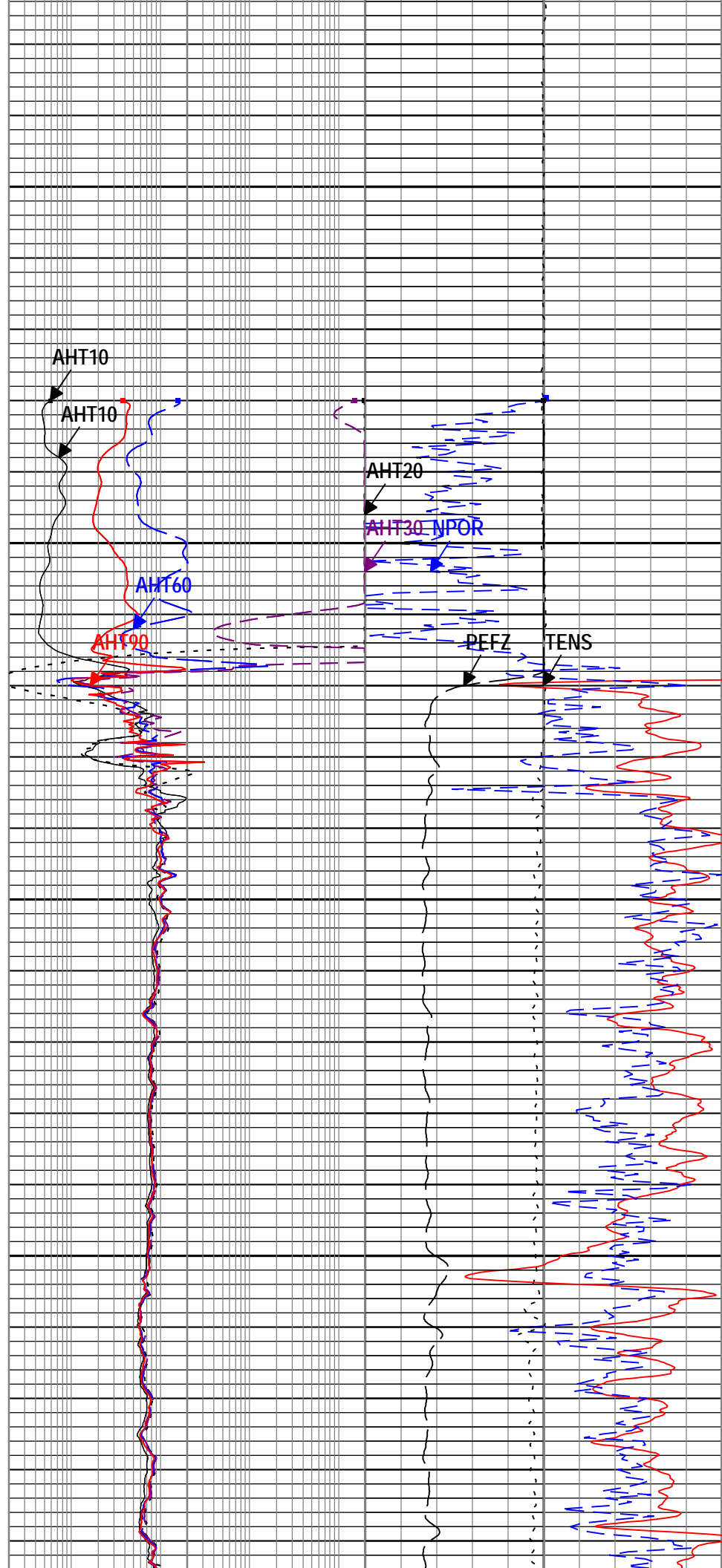
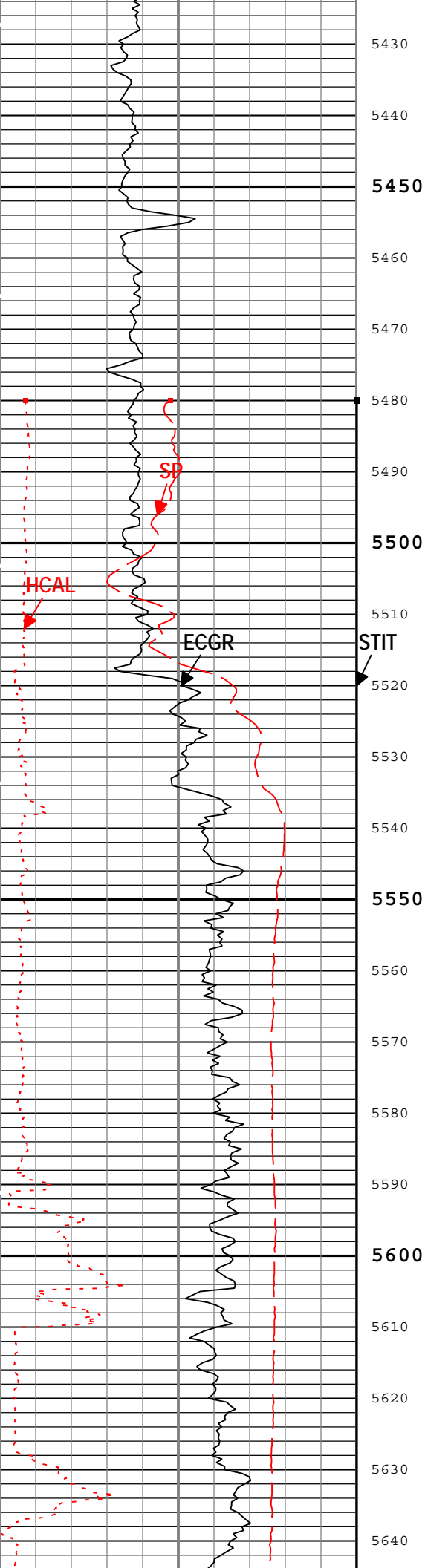
All depths are referenced to toolstring zero

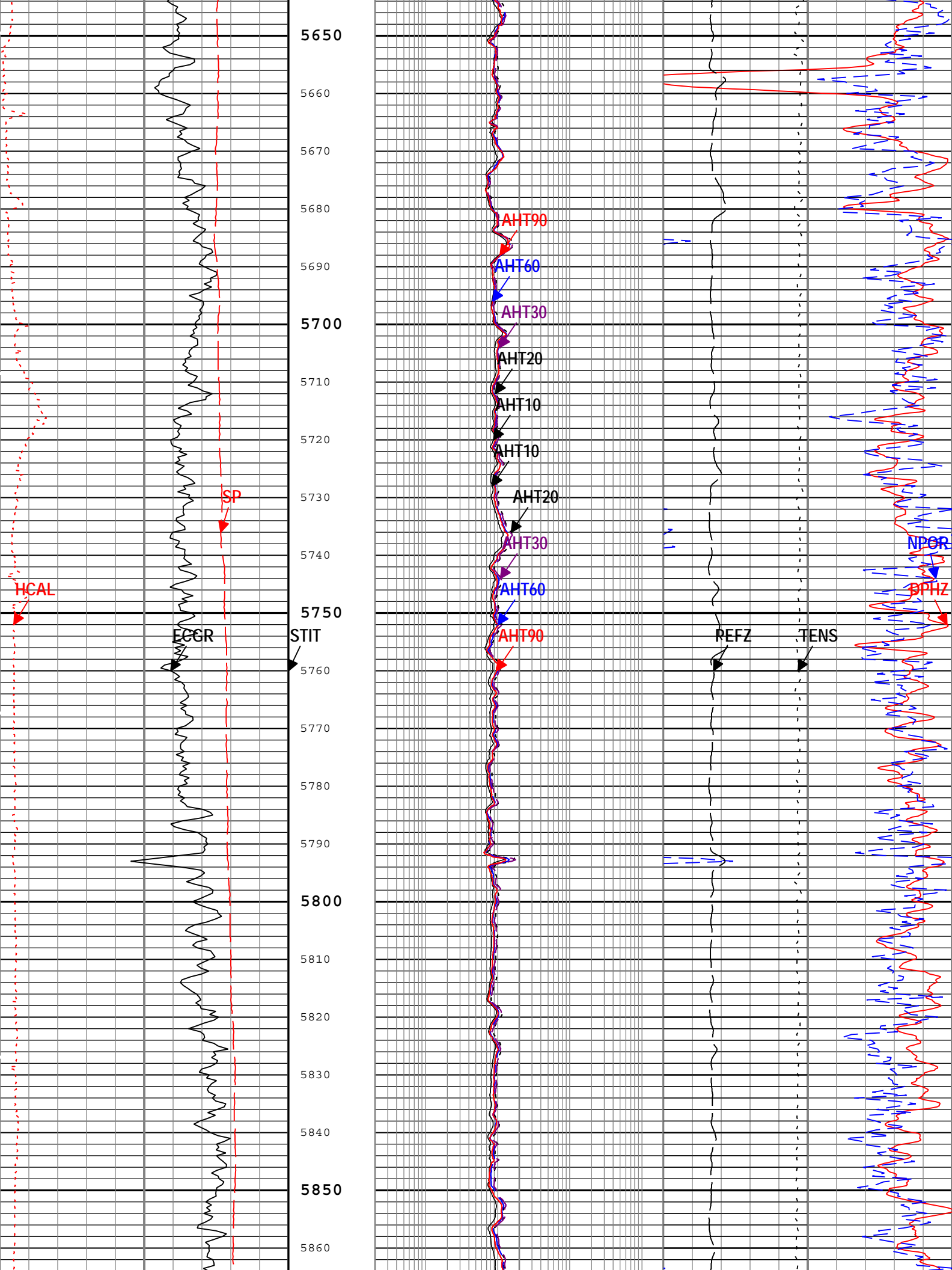
Log		Company:SG Interests I, LTD		Well:Falcon Seaboard 11-90-12 #3	
ONE: Log[3]:Up:S007					
Description: HGNS standard resolution porosities for Platform Express    Format: Log ( Import of KM 5in Triple Combo )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured Depth    Creation Date: 26-Jul-2015 07:09:27					
Channel	Source	Sampling			
AT10	AIT-H:AHIS:AHIS	3in			
AT20	AIT-H:AHIS:AHIS	3in			
AT30	AIT-H:AHIS:AHIS	3in			
AT60	AIT-H:AHIS:AHIS	3in			
AT90	AIT-H:AHIS:AHIS	3in			
CALI	HDRS-H:HRCC-H:HRCC-H	1in			
DPHZ	HDRS-H:HRMS-H:HRGD-H	2in			
GR	HGNS-H:HGNS-H:HGNS-H	6in			
NPOR	HGNS-H:HGNS-H:HGNS-H	6in			
PEFZ	HDRS-H:HRMS-H:HRGD-H	2in			
SP	AIT-H:AHIS:AHIS	6in			
STIT	DepthCorrection	6in			
TENS	WLWorkflow	6in			
TIME_1900	WLWorkflow	0.1in			
TIME_1900 - Time Marked every 60.00 (s)					
		<div>Array Induction Two Foot Resistivity A90 (AHT90) AIT-H</div> <div>0.2ohm.m2000</div>			
		<div>Array Induction Two Foot Resistivity A60 (AHT60) AIT-H</div> <div>0.2ohm.m2000</div>			
		<div>Array Induction Two Foot Resistivity A30 (AHT30) AIT-H</div> <div>0.2ohm.m2000</div>			
		<div>Array Induction Two Foot Resistivity A20 (AHT20) AIT-H</div> <div>0.2ohm.m2000</div>			
		<div>Array Induction Two Foot Resistivity A10 (AHT10) AIT-H</div> <div>0.2ohm.m2000</div>			
		<div>Array Induction Two Foot Resistivity A10 (AHT10) AIT-H</div> <div>0.2ohm.m2000</div>			
		<div>Array Induction Two Foot Resistivity A20 (AHT20) AIT-H</div> <div>0.2ohm.m2000</div>			
		<div>Array Induction Two Foot Resistivity A30 (AHT30) AIT-H</div> <div>0.2ohm.m2000</div>			
		<div>Array Induction Two Foot Resistivity A60 (AHT60) AIT-H</div> <div>0.2ohm.m2000</div>			
		<div>Array Induction Two Foot Resistivity A60 (AHT60) AIT-H</div> <div>0.2ohm.m2000</div>			
Gamma Ray Back up		<div>Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS-H</div> <div>010</div>			
Gamma Ray (ECGR) HGNS-H		<div>Gas Effect</div>			
gAPI200		<div>Cable Tension (TENS)</div> <div>5000lbf0</div>			
Caliper (HCAL) HDRS-H		<div>Standard Resolution Density Porosity (DPHZ) HDRS-H</div> <div>0.2ft3/ft30</div>			

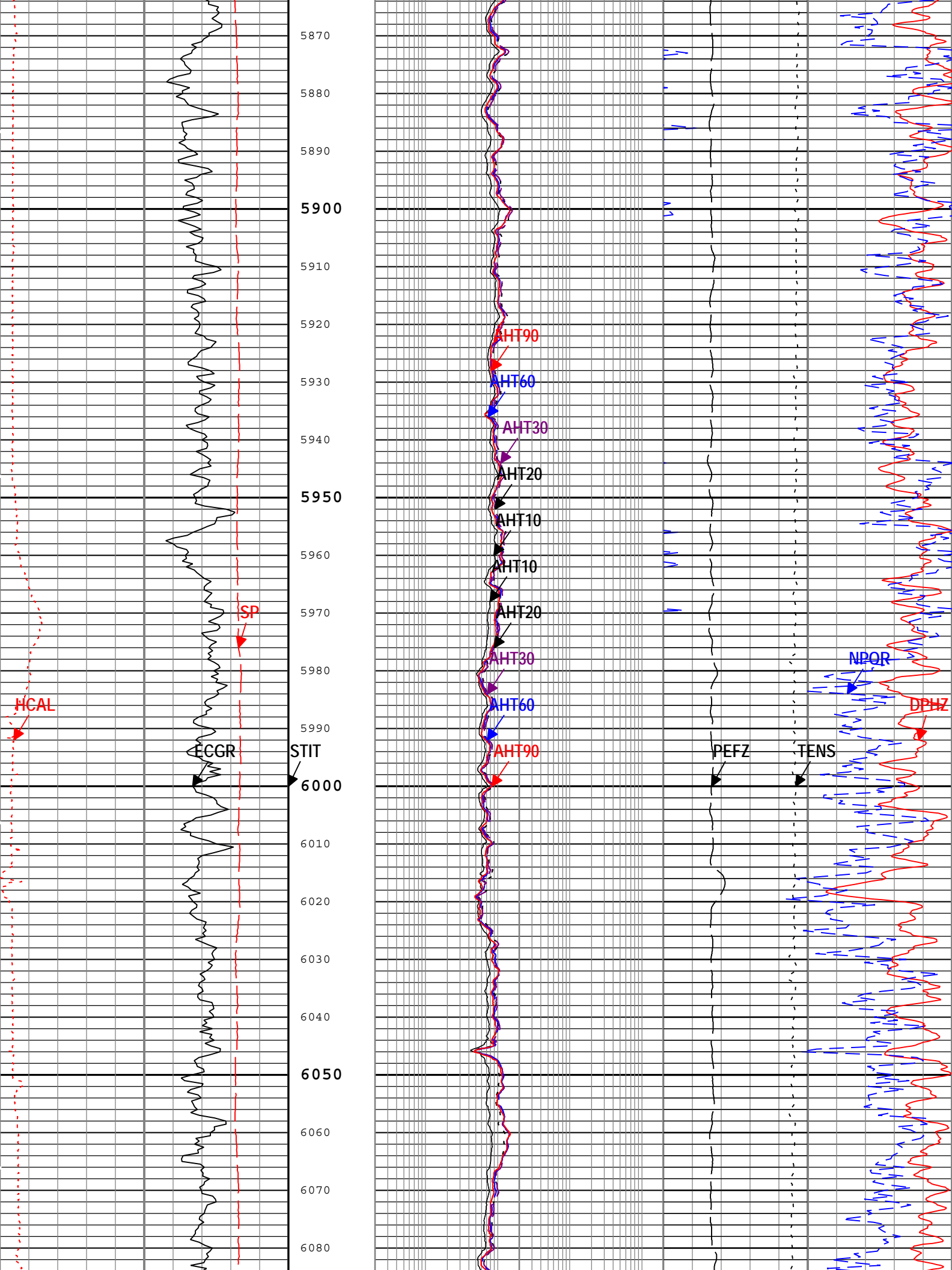


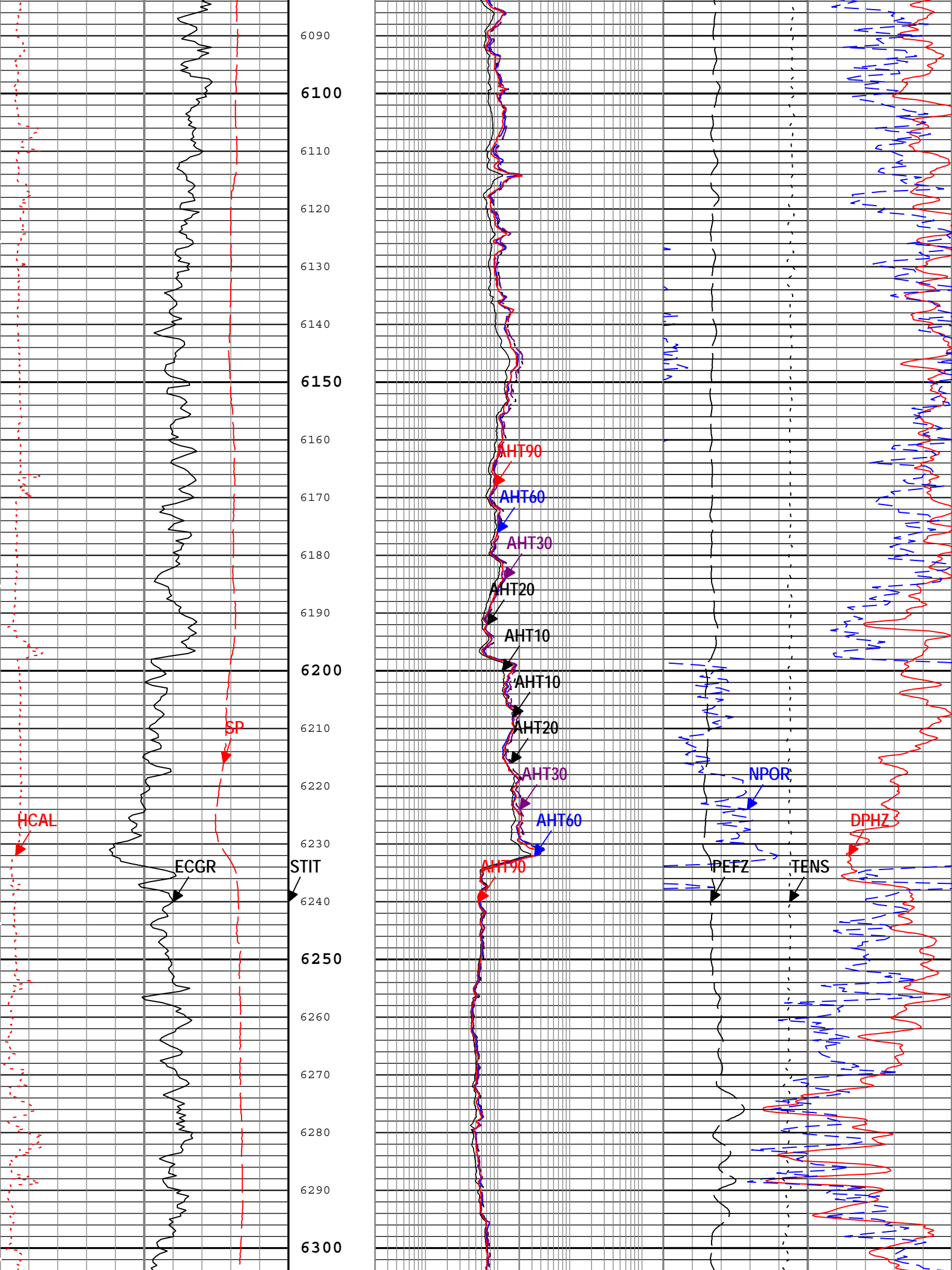


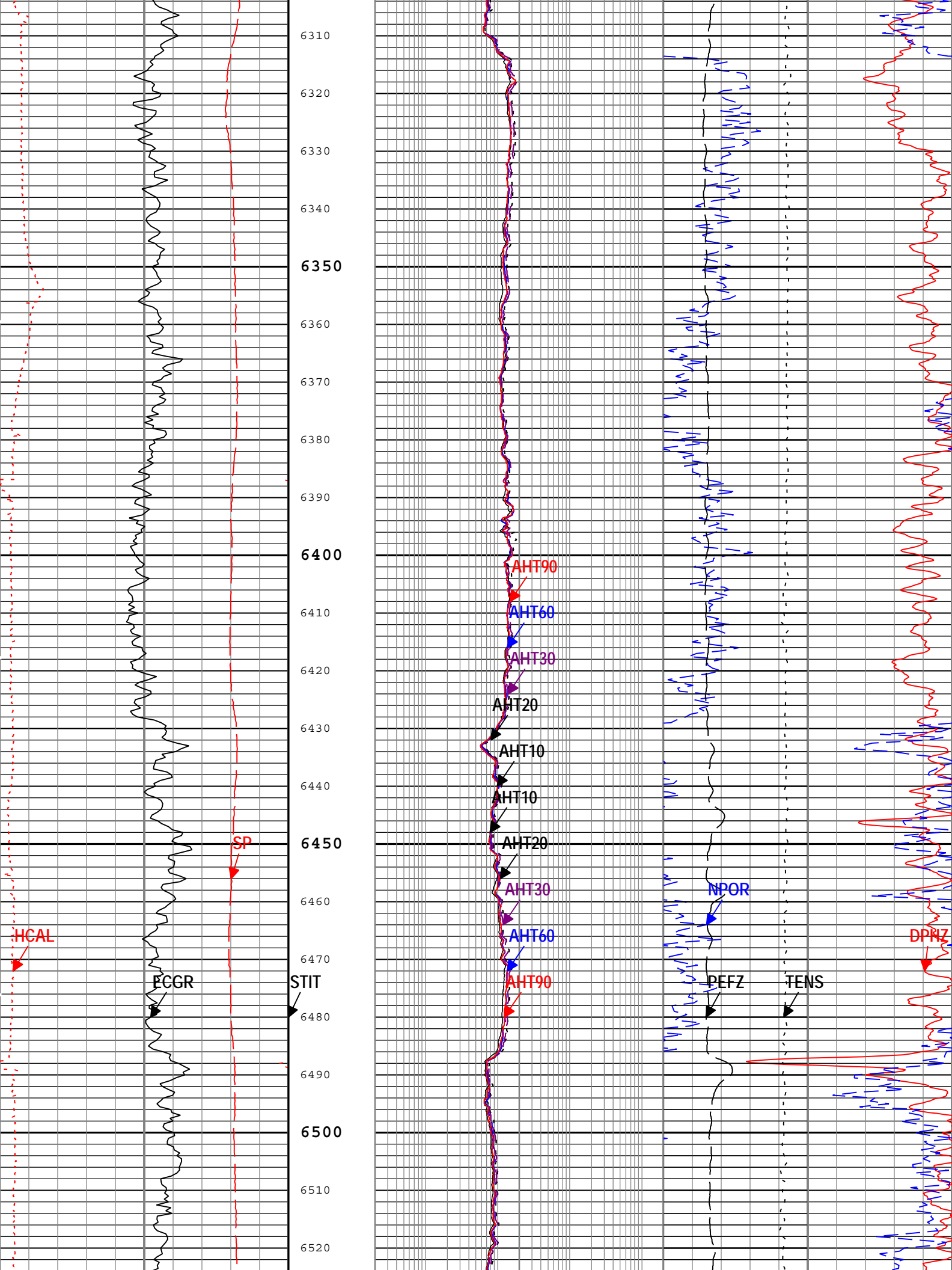


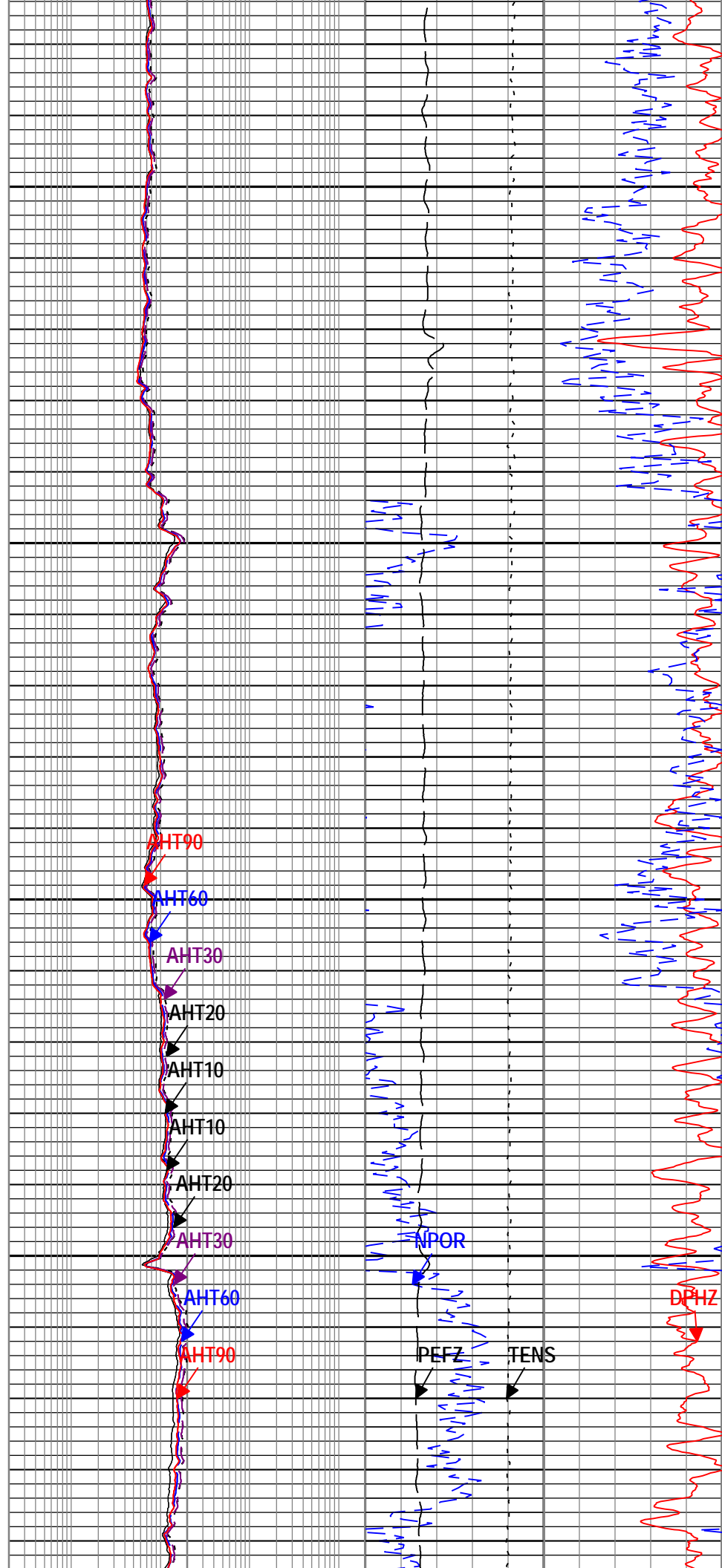
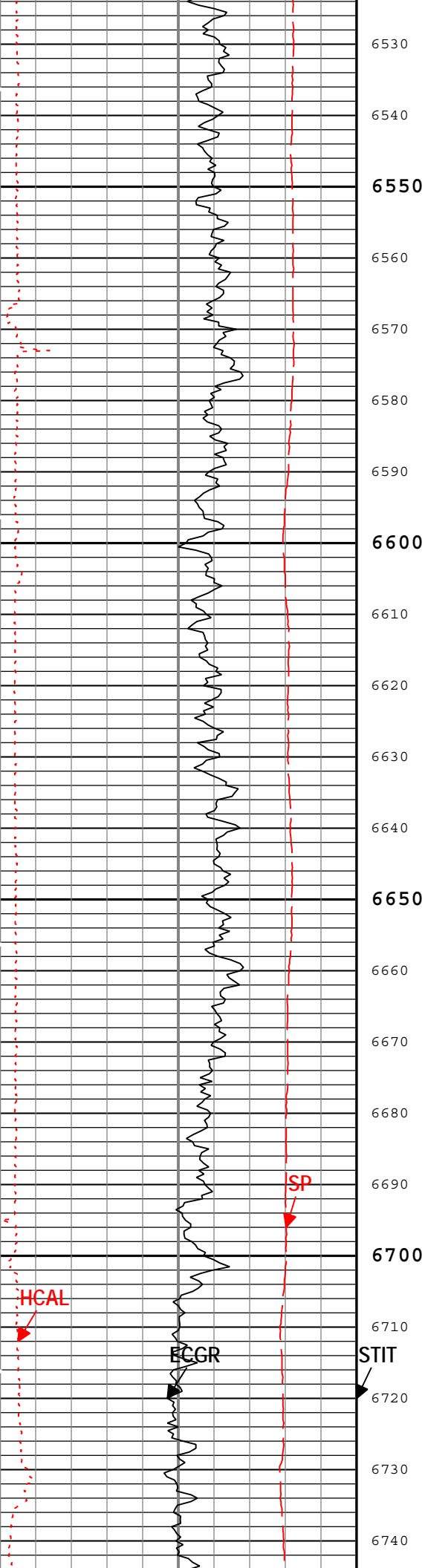


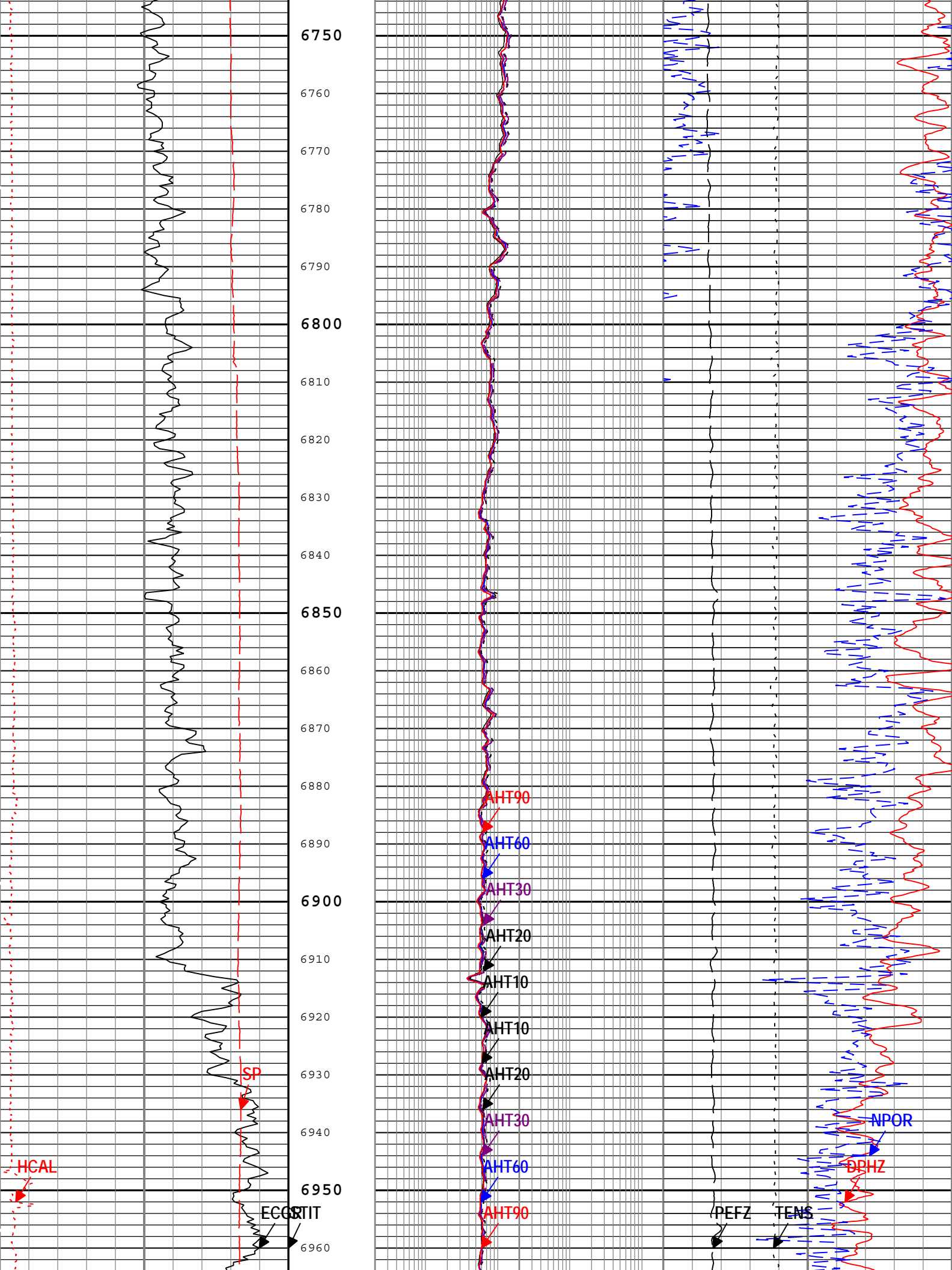


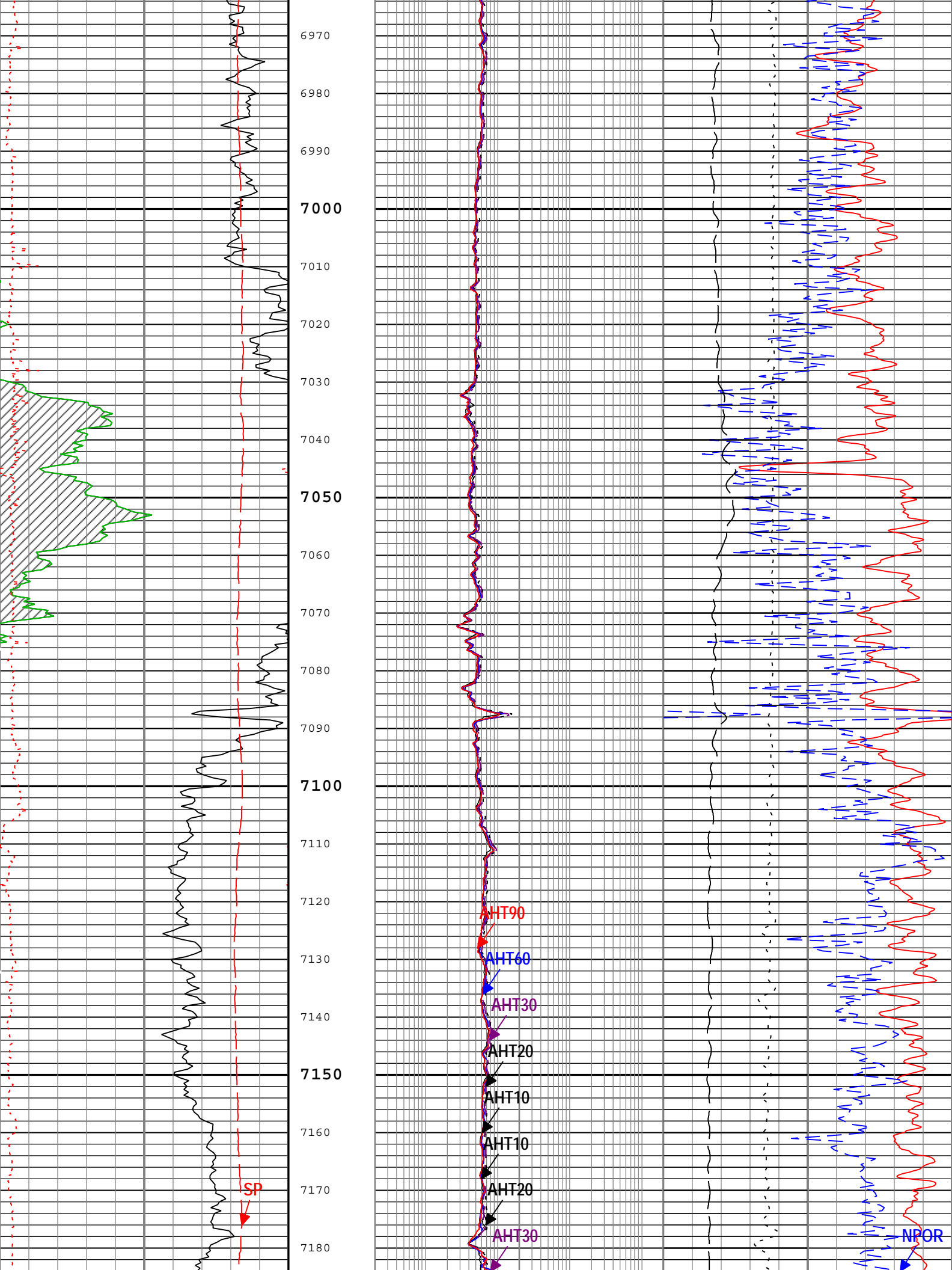




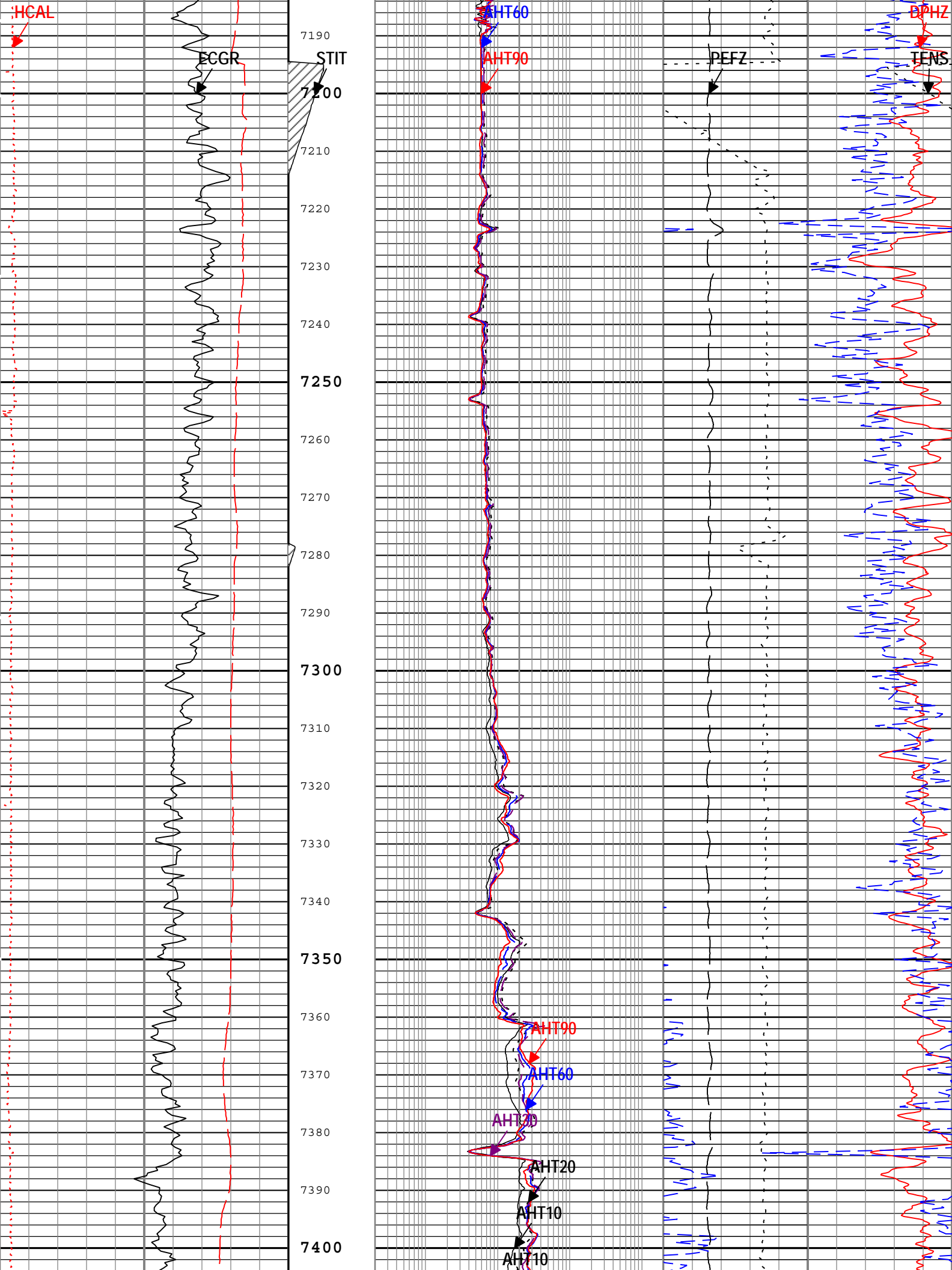


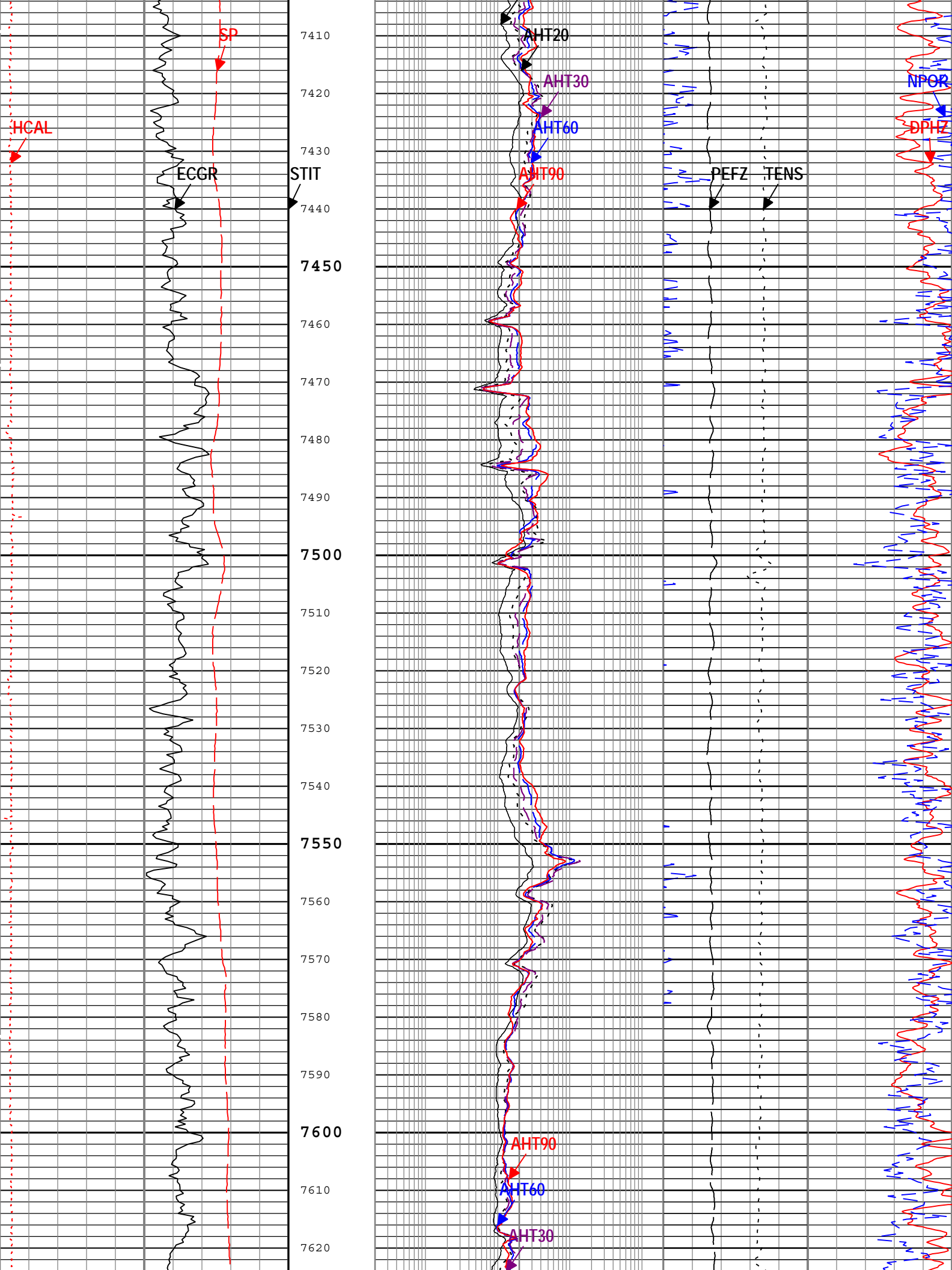


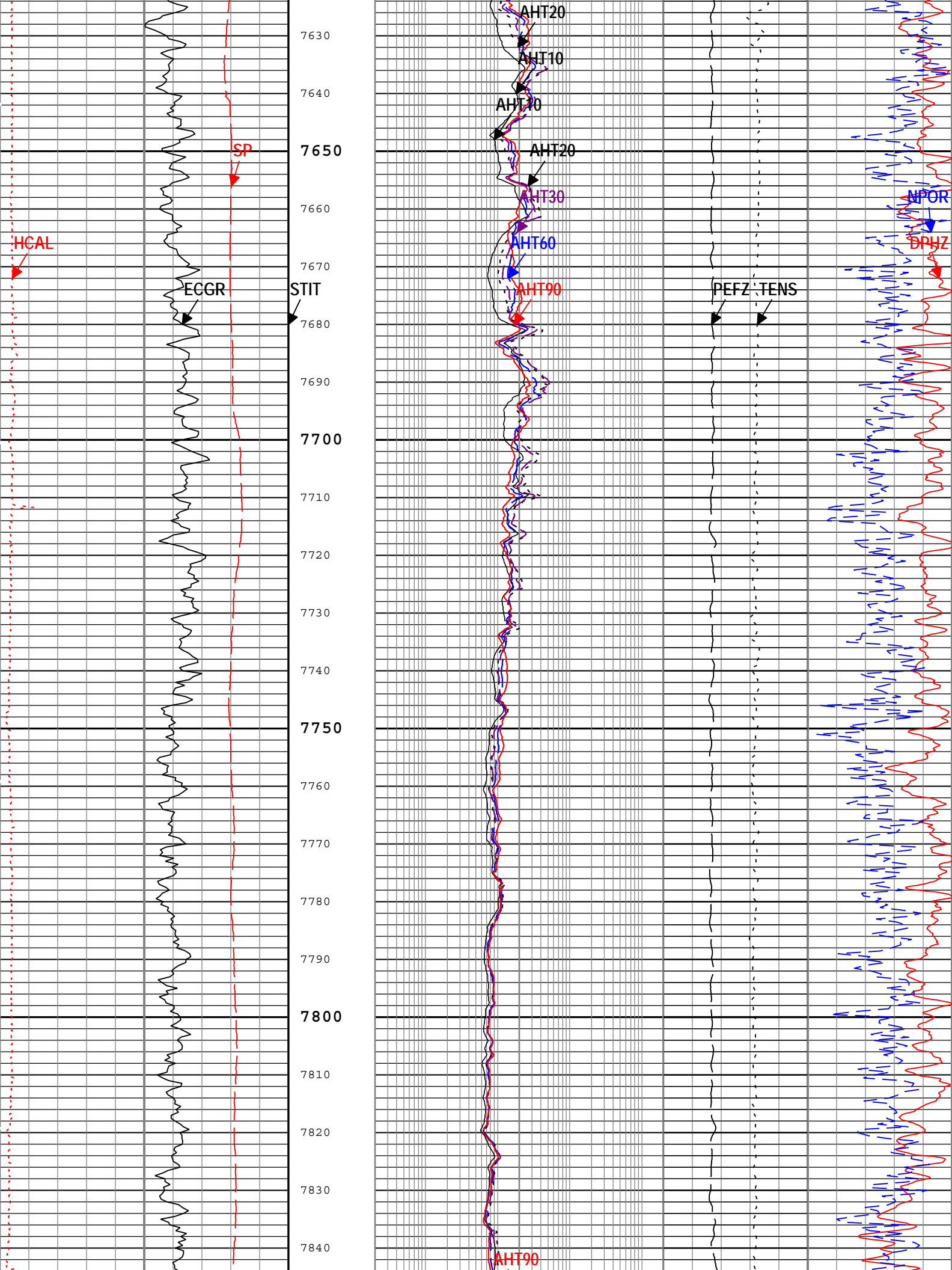


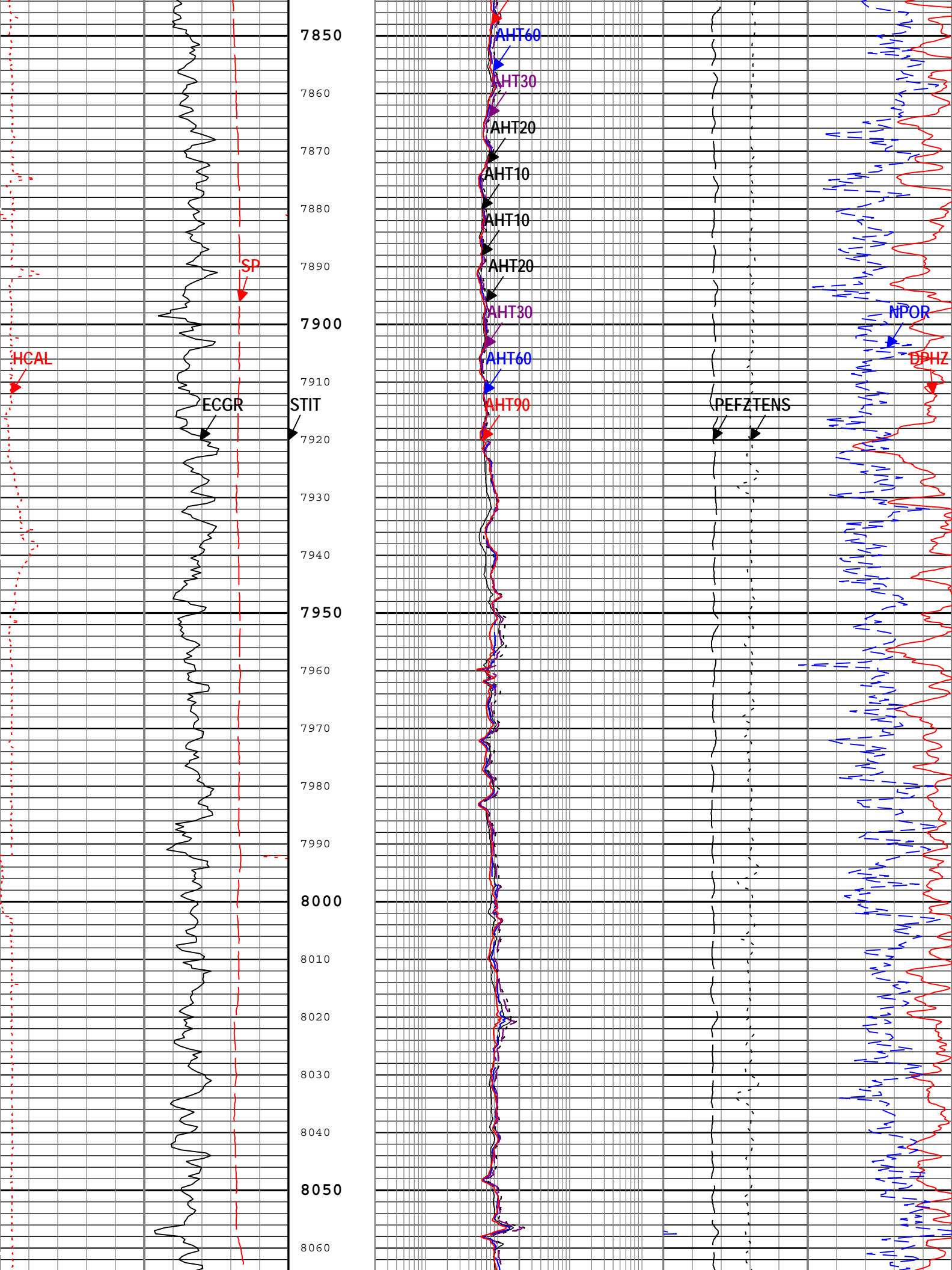


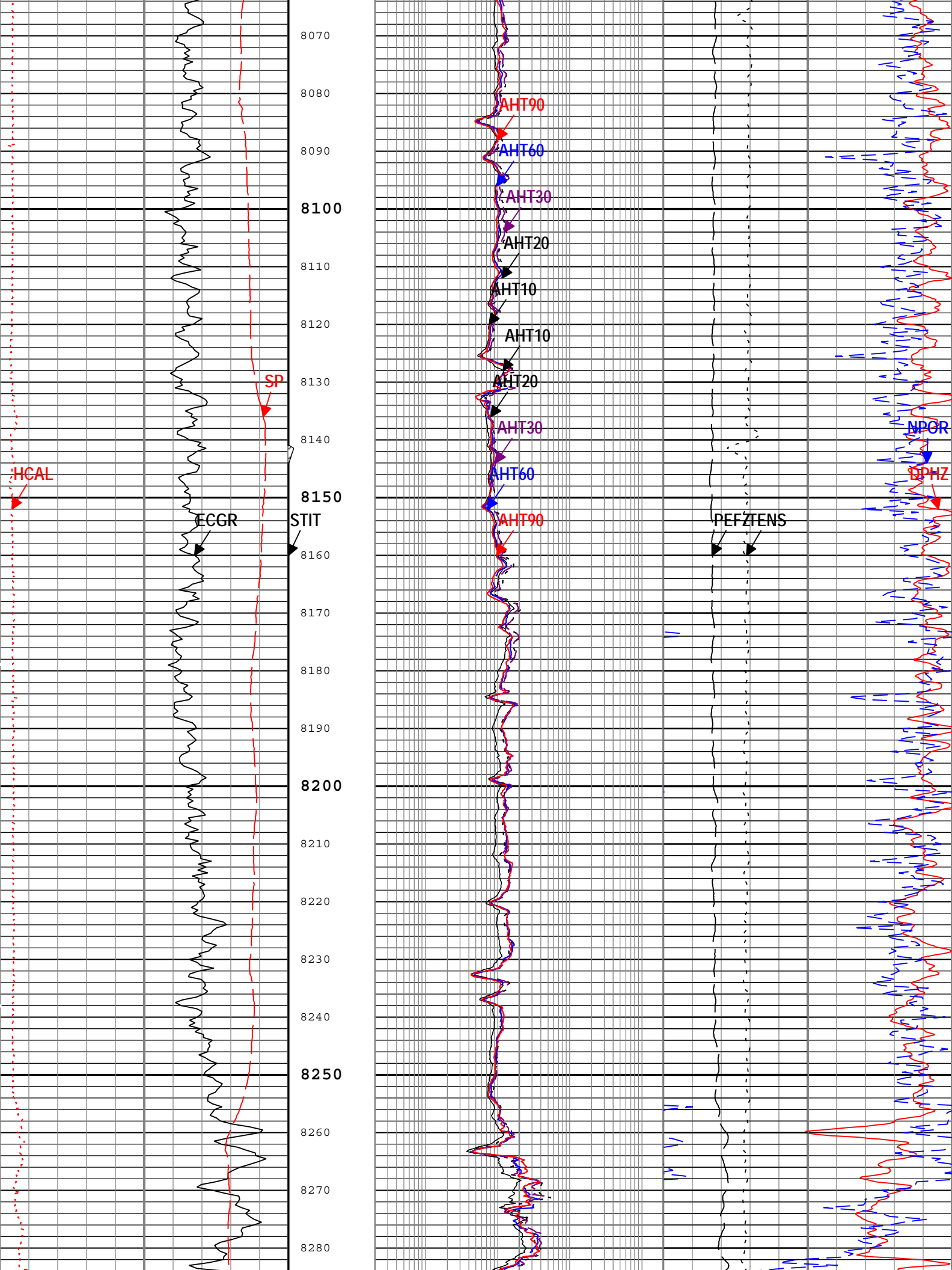


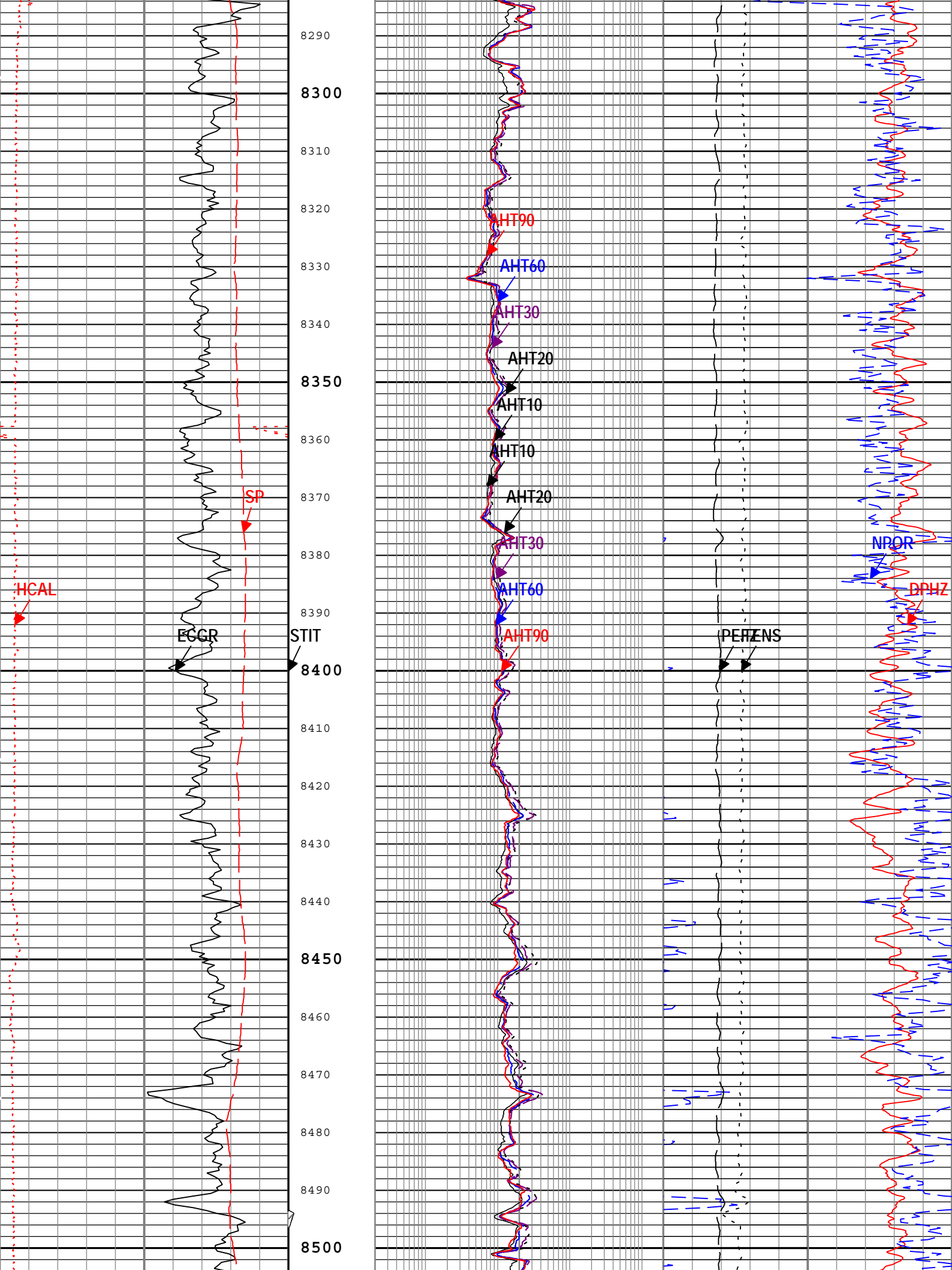


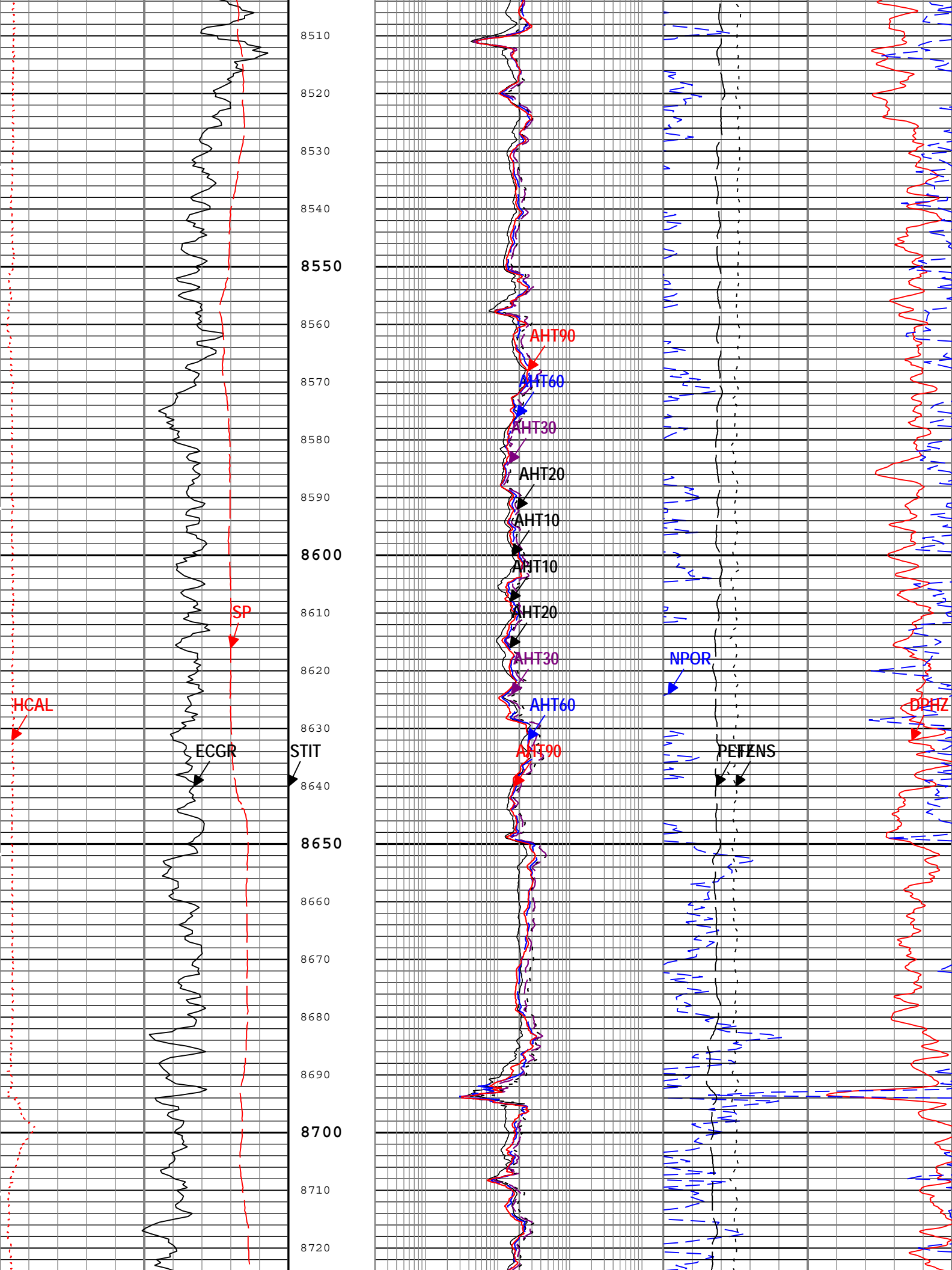


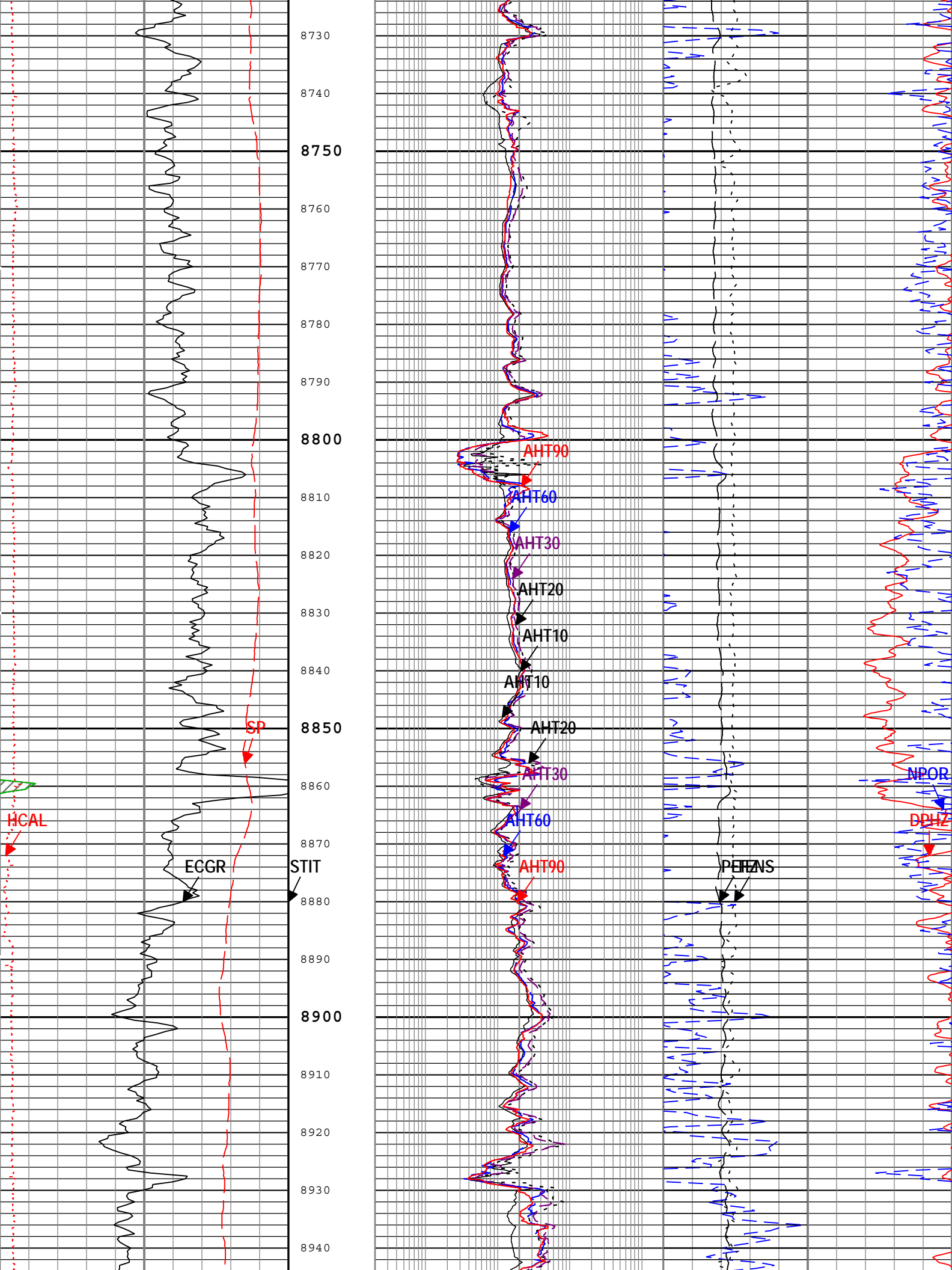




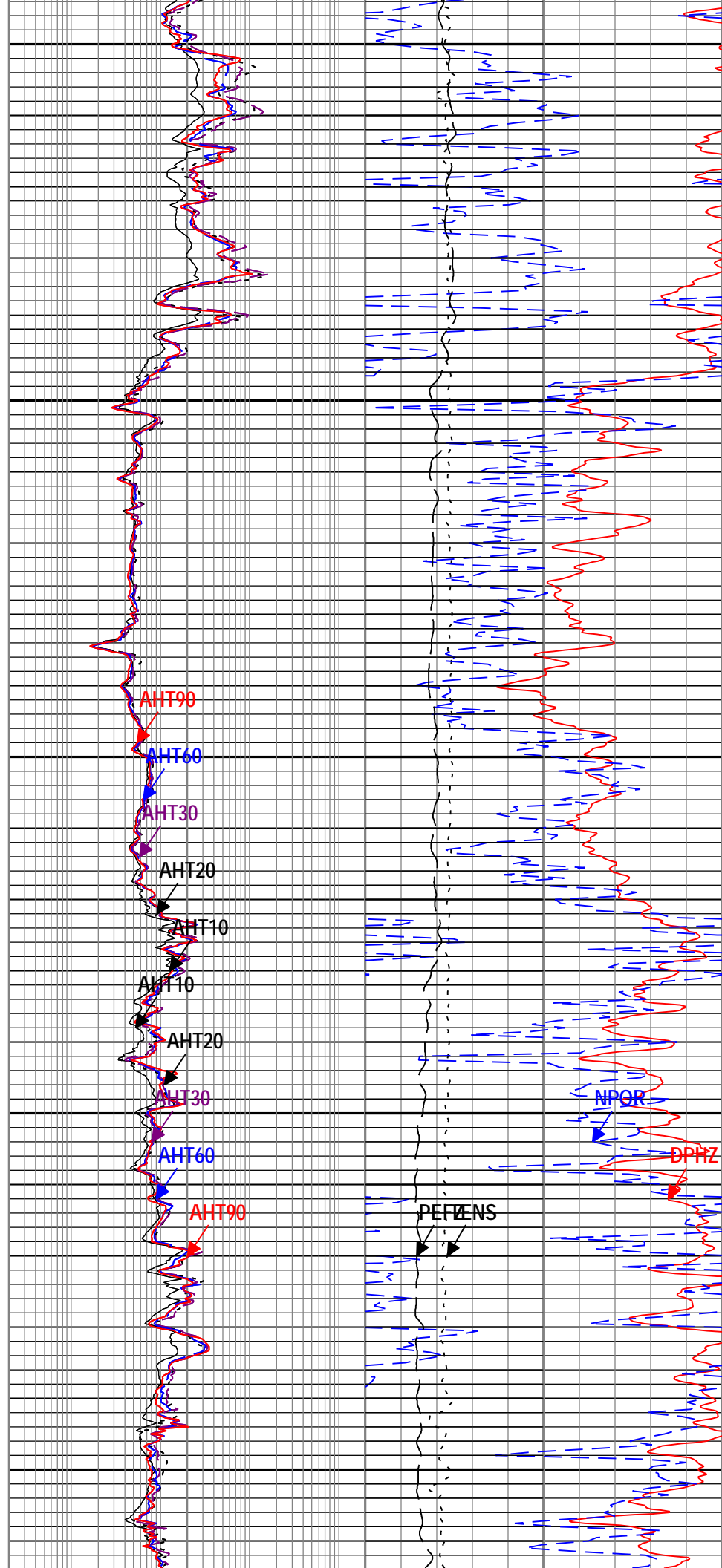
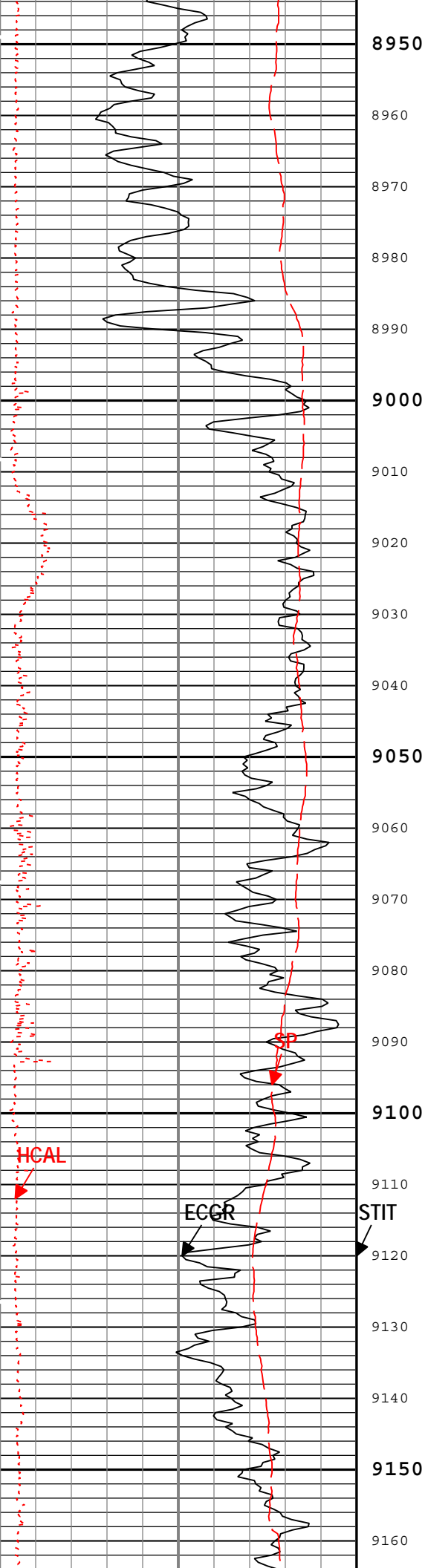


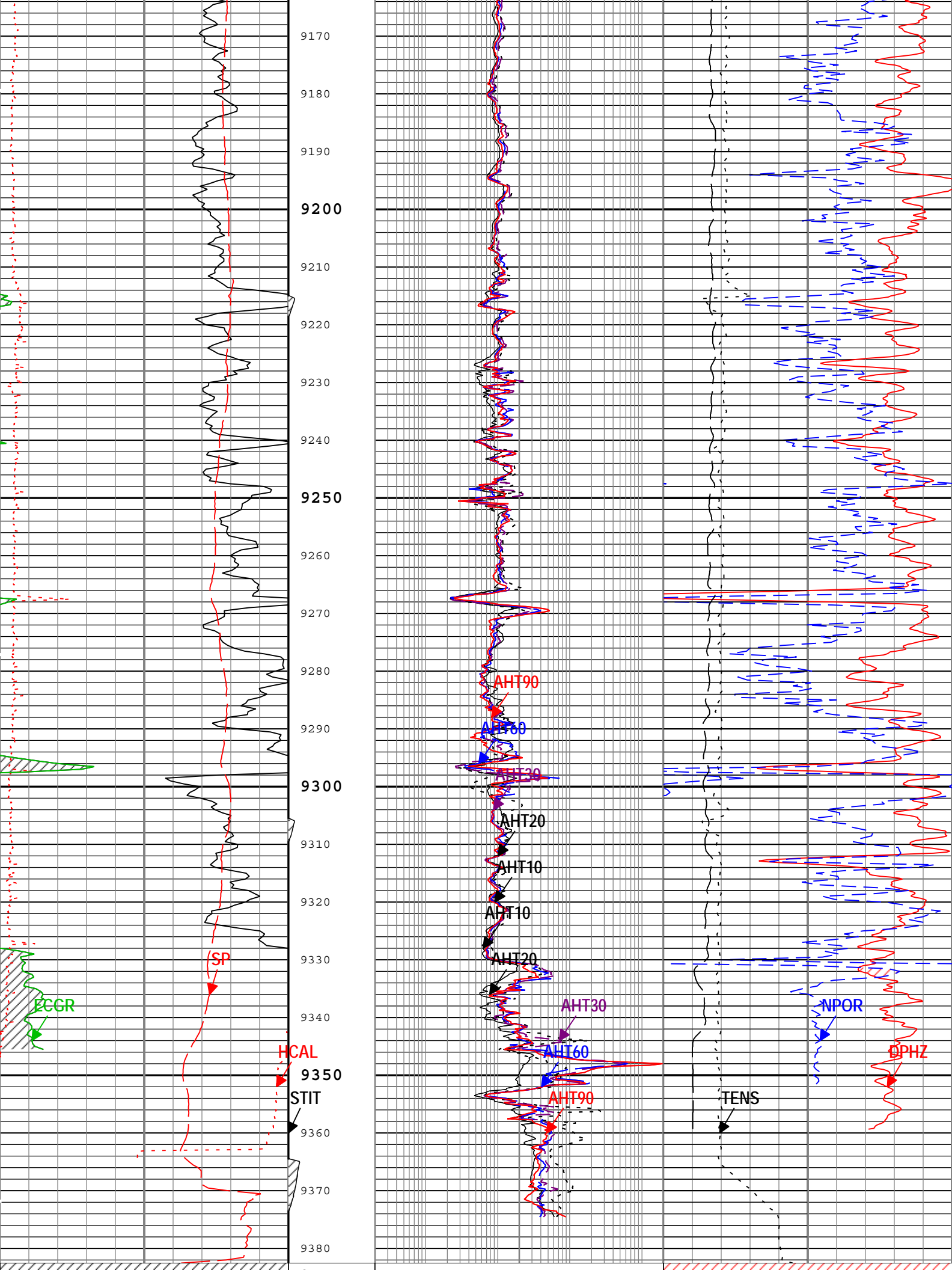












Gamma Ray Back up	Stuck Tool Indicator, Total (STIT)	Array Induction Two Foot Resistivity A90 (AHT90) AIT-H	Gas Effect
Gamma Ray (ECGR) HGNS-H		0.2 ohm.m 2000	Cable Tension (TENS)
0 gAPI 200	0 ft 50		5000 lbf 0
Caliper (HCAL) HDRS-H		Array Induction Two Foot Resistivity A60 (AHT60) AIT-H	Standard Resolution Density Porosity (DPHZ) HDRS-H
8 in 18		0.2 ohm.m 2000	0.2 ft3/ft3 0
Spontaneous Potential (SP) AIT-H		Array Induction Two Foot Resistivity A30 (AHT30) AIT-H	Enhanced Thermal Neutron Porosity in Selected Lithology (NPOR) HGNS-H
-160 mV 40		0.2 ohm.m 2000	0.2 m3/m3 0
		Array Induction Two Foot Resistivity A20 (AHT20) AIT-H	Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS-H
		0.2 ohm.m 2000	0 10
		Array Induction Two Foot Resistivity A10 (AHT10) AIT-H	
		0.2 ohm.m 2000	
		Array Induction Two Foot Resistivity A10 (AHT10) AIT-H	
		0.2 ohm.m 2000	
		Array Induction Two Foot Resistivity A20 (AHT20) AIT-H	
		0.2 ohm.m 2000	
		Array Induction Two Foot Resistivity A30 (AHT30) AIT-H	
		0.2 ohm.m 2000	
		Array Induction Two Foot Resistivity A60 (AHT60) AIT-H	
		0.2 ohm.m 2000	
		Array Induction Two Foot Resistivity A90 (AHT90) AIT-H	
		0.2 ohm.m 2000	

TIME\_1900 - Time Marked every 60.00 (s)

Description: HGNS standard resolution porosities for Platform Express    Format: Log ( Import of KM 5in Triple Combo )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured Depth    Creation Date: 26-Jul-2015 07:09:27

Channel Processing Parameters				
ONE: Parameters				
Parameter	Description	Tool	Value	Unit
AHBHM	Array Induction Borehole Correction Mode	AIT-H	Compute Standoff	
AHSTA	Array Induction Tool Standoff	AIT-H	1.125	in
ISSBAR	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BHT	Bottom Hole Temperature	Borehole	256	degF
BS	Bit Size	WLSESSION	Depth Zoned	in
BSAL	Borehole Salinity	Borehole	0	ppm
CALI_SHIFT	CALI Supplementary Offset	HDRS-H	-0.937	in
CBLO	Casing Bottom (Logger)	WLSESSION	5517	ft
CDEN	Cement Density	HGNS-H	2	g/cm3

DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	9.1	lbm/gal
DFT	Drilling Fluid Type	Borehole	Water	
DHC	Density Hole Correction	HDRS-H	Bit Size	
FD	Fluid Density	Borehole	1	g/cm3
FSAL	Formation Salinity	Borehole	0	ppm
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	CALI	
GRSE	Generalized Mud Resistivity Selection, from Measured or Computed Mud Resistivity	Borehole	AMF	
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	CTEM	
HSCO	Hole Size Correction Option	HGNS-H	Yes	
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	SANDSTONE	
MDEN	Matrix Density for Density Porosity	Borehole	2.68	g/cm3
MFST	Mud Filtrate Sample Temperature	Borehole	75	degF
MWCO	Mud Weight Correction Option	HGNS-H	Yes	
PTCO	Pressure Temperature Correction Option	HGNS-H	Yes	
RMFS	Resistivity of Mud Filtrate Sample	Borehole	1.4	ohm.m
SOCO	Standoff Correction Option	HGNS-H	Yes	
SPDR	SP Drift Per Foot	AIT-H	0	mV/ft
TD	Total Measured Depth	Borehole	9365	ft

Depth Zone Parameters			
Parameter	Value	Start ( ft )	Stop ( ft )
BS	13.5	5000	5520
BS	8.5	5520	9365

All depth are actual.

Tool Control Parameters	
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ONE: Parameters				
Parameter	Description	Tool	Value	Unit
HMCA_BOARD_TYPE	HMCA Board Type	HGNS-H	1	
HRGD_BOARD_TYPE	HRGD Board Type	HDRS-H	WITH_HET	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	3600	ft/h

ONE
5" Triple Combo

Software Version	
Acquisition System	Version
Maxwell 2014 SP3	5.3.45427.3100

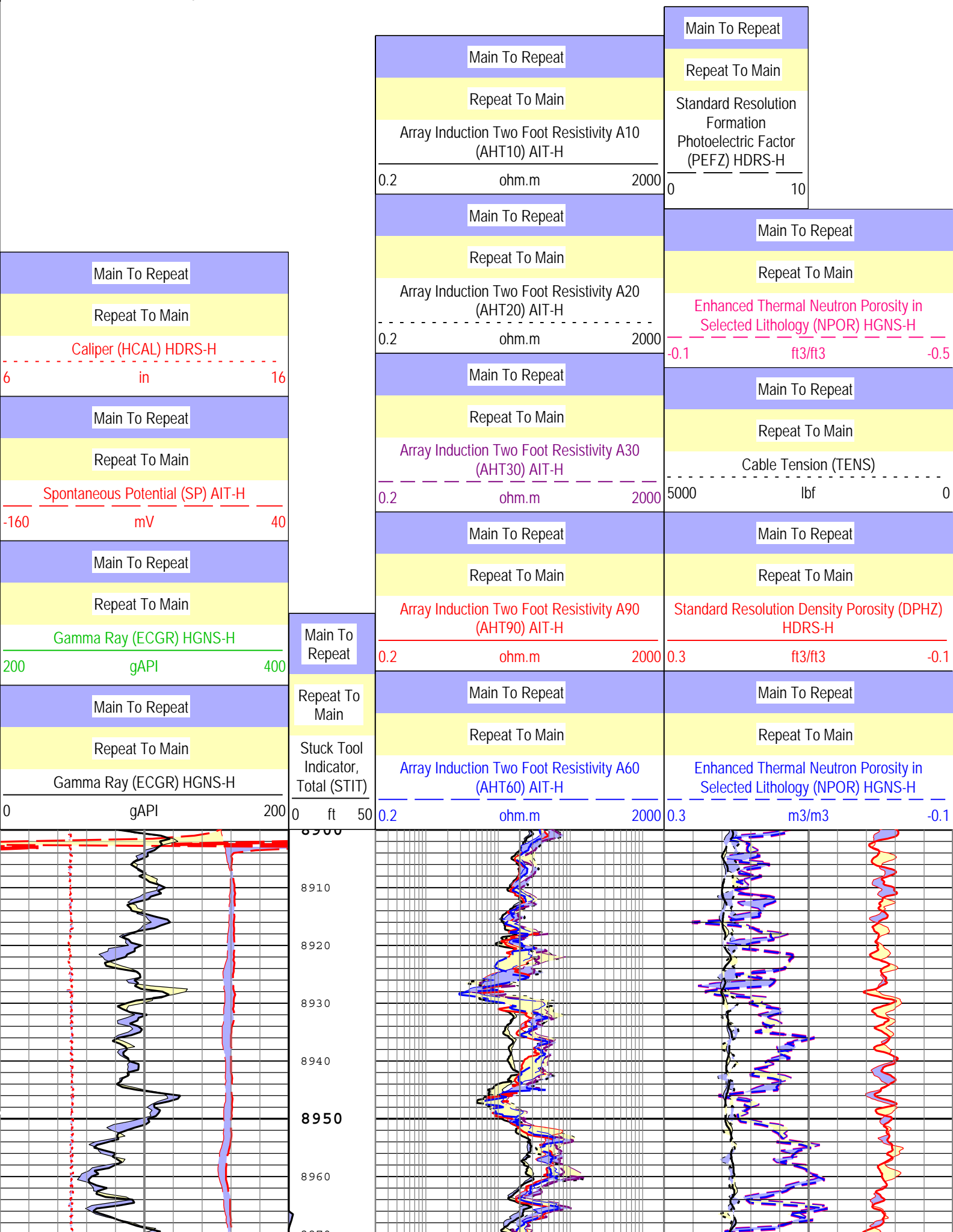
Pass Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[2]:Up	Up	8852.73 ft	9384.67 ft	26-Jul-2015 5:12:09 AM	26-Jul-2015 5:25:11 AM	ON	10.01 ft	No
ONE	Log[3]:Up	Up	4317.40 ft	9382.68 ft	26-Jul-2015 5:29:57 AM	26-Jul-2015 6:53:19 AM	ON	0.00 ft	No

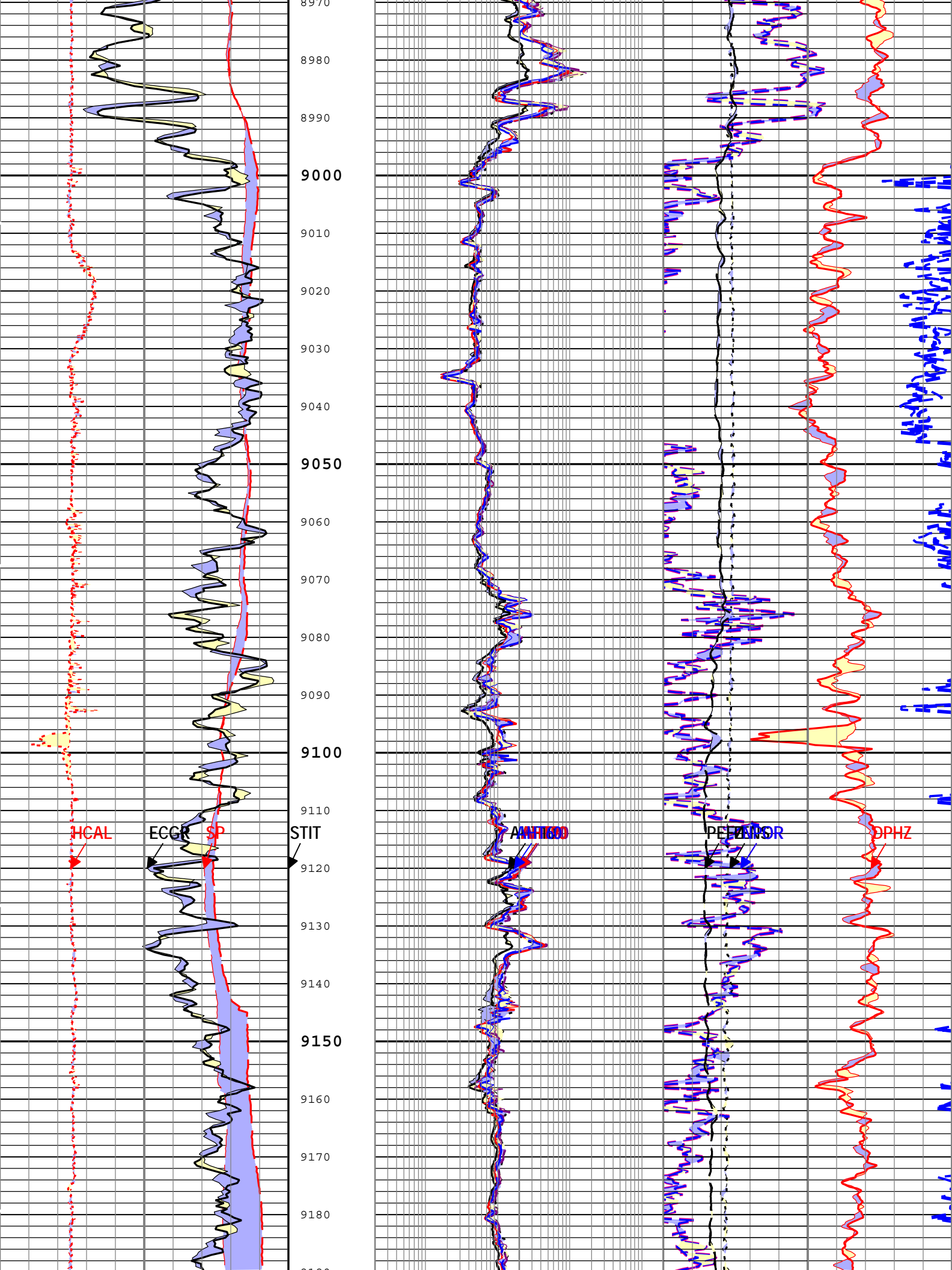
All depths are referenced to toolstring zero

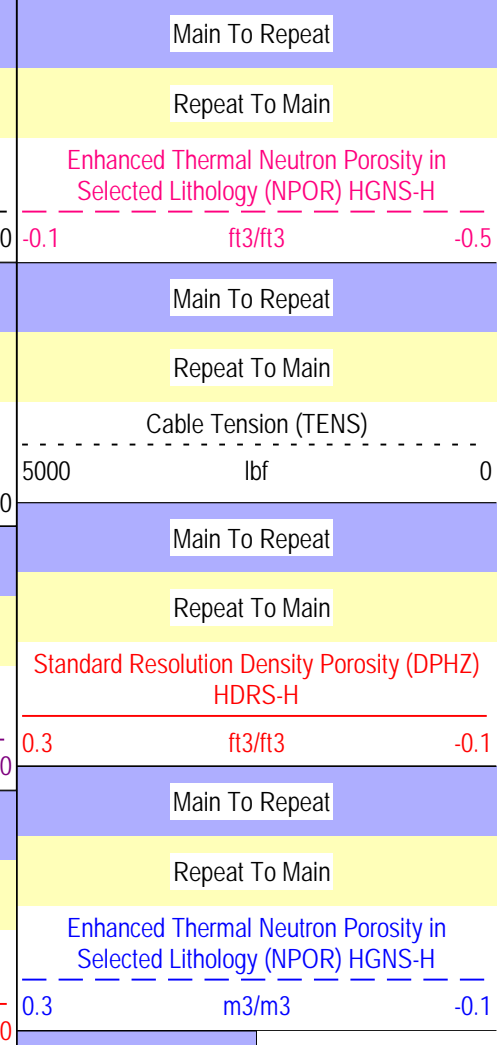
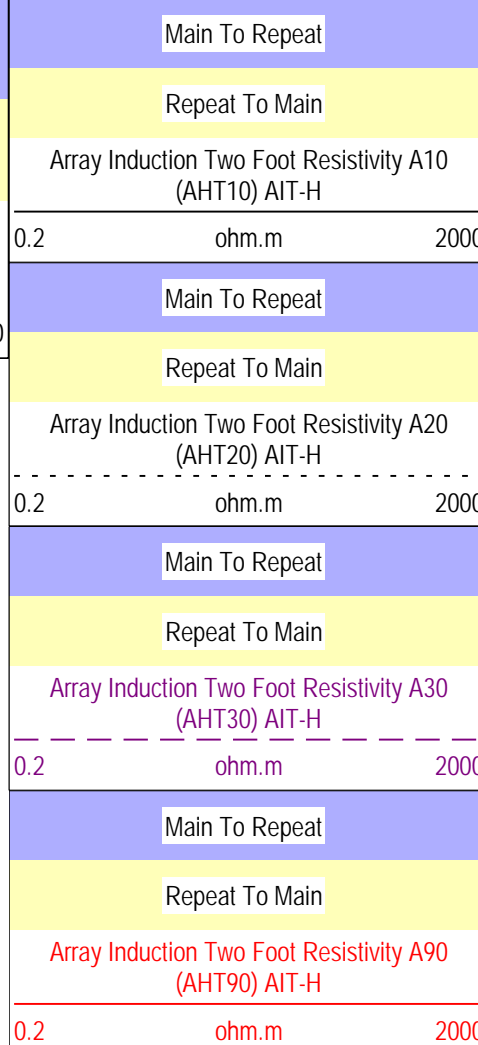
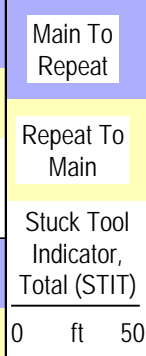
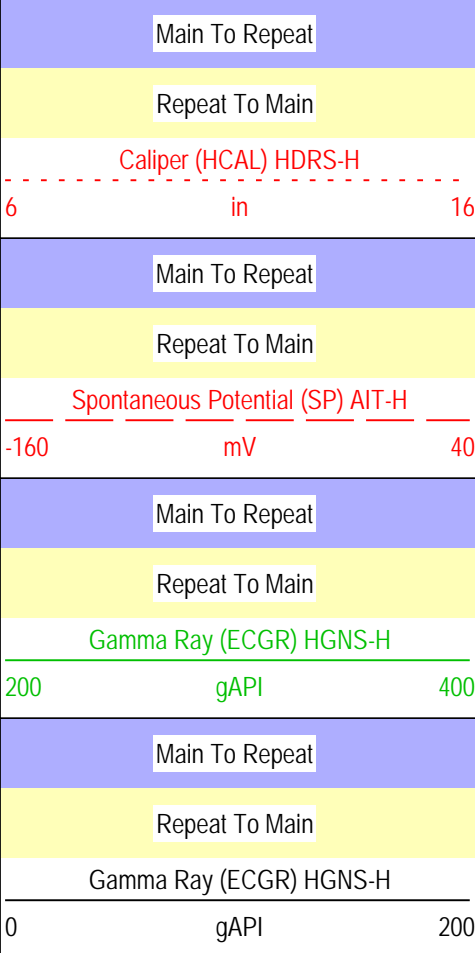
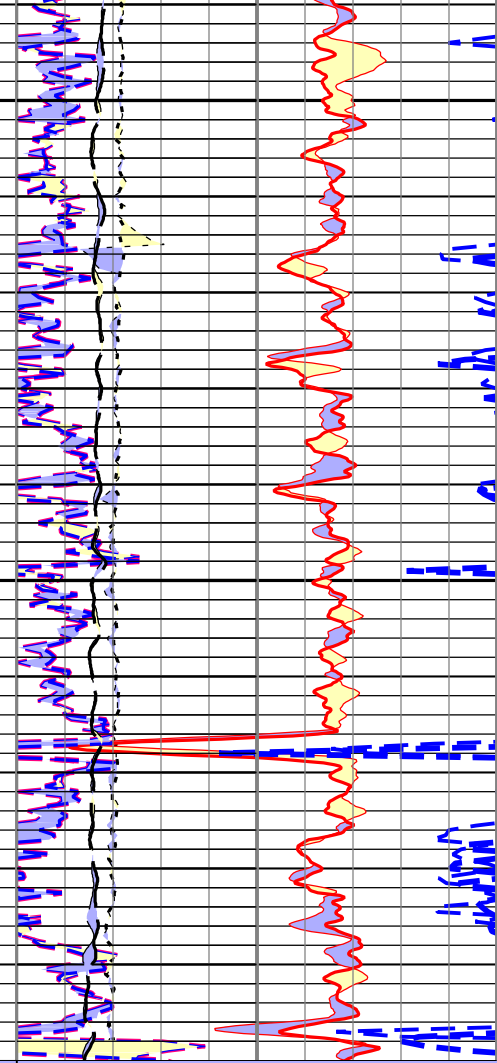
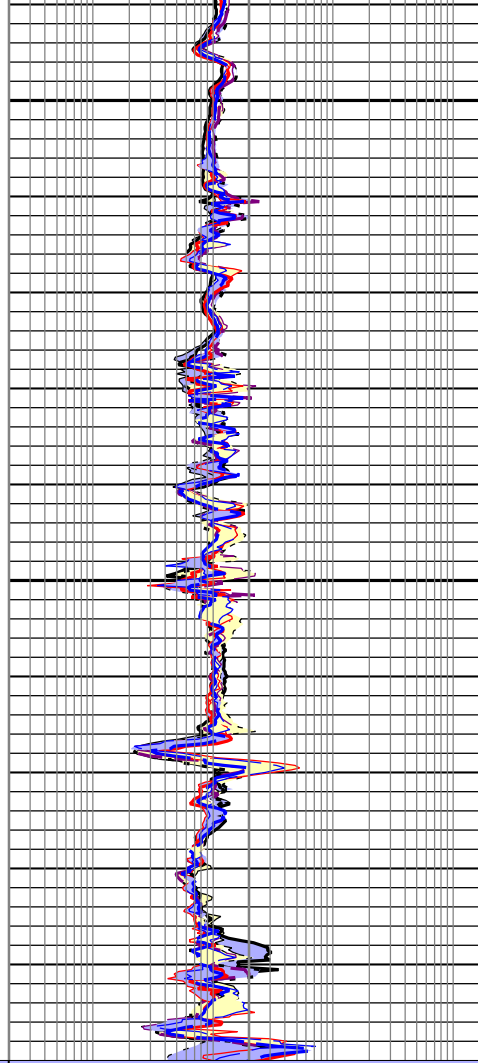
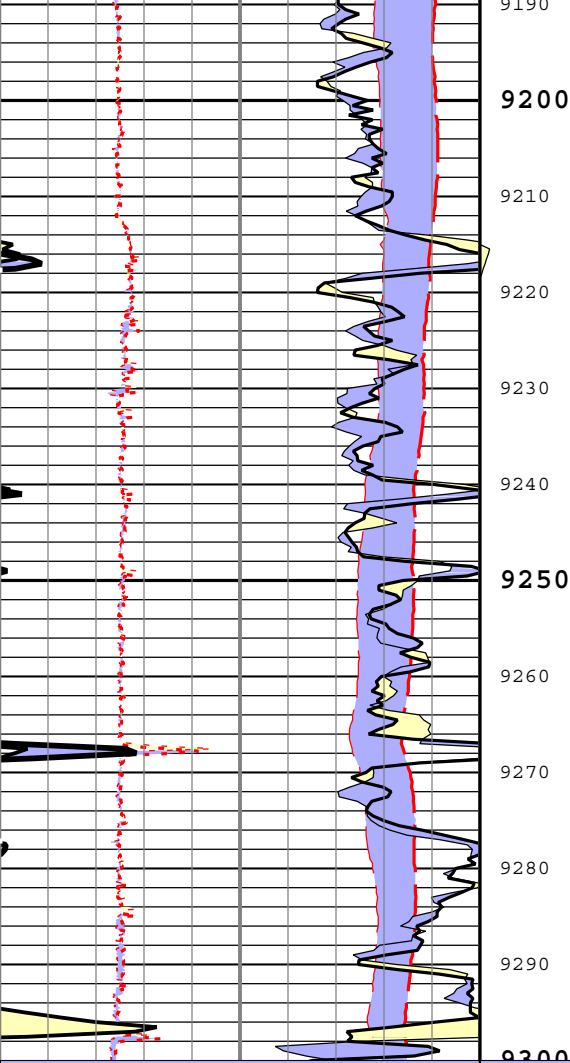
Log	Company:SG Interests I, LTD      Well:Falcon Seaboard 11-90-12 #3
	ONE: Log[3]:Up:S007

Description: HGNS standard resolution porosities for Platform Express    Format: Import of KM 5in Triple Combo RA    Index Scale: 5 in per 100 ft    Index Unit: ft

TIME\_1900 - Time Marked every 60.00 (s)









Parameter	Description	Tool	Value	Unit
HMCA_BOARD_TYPE	HMCA Board Type	HGNS-H	1	
HRGD_BOARD_TYPE	HRGD Board Type	HDRS-H	WITH_HET	



MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	3600	ft/h
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Calibration Report

AIT-H (Array Induction Tool - H) Calibration - Run ONE

Primary Equipment :			
File code for AIT-HA Sonde Tool Element	AHIS	398	
Auxiliary Equipment :			
File code for AIT Bottom Nose Tool Element	AHRM	398	

AIT Sonde Calibration - Test Loop Gain

Master (Measured):		15:20:34 20-Jun-2015					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Test Loop Gain - 0		Master	1.000	0.950	1.018	1.050	
Test Loop Phase - 0	deg	Master	0	-3.000	1.093	3.000	
Test Loop Gain - 1		Master	1.000	0.950	1.018	1.050	
Test Loop Phase - 1	deg	Master	0	-3.000	-0.175	3.000	
Test Loop Gain - 2		Master	1.000	0.950	1.018	1.050	
Test Loop Phase - 2	deg	Master	0	-3.000	-0.495	3.000	
Test Loop Gain - 3		Master	1.000	0.950	1.017	1.050	
Test Loop Phase - 3	deg	Master	0	-3.000	-0.106	3.000	
Test Loop Gain - 4		Master	1.000	0.950	0.996	1.050	
Test Loop Phase - 4	deg	Master	0	-3.000	-0.312	3.000	
Test Loop Gain - 5		Master	1.000	0.950	1.013	1.050	
Test Loop Phase - 5	deg	Master	0	-3.000	-0.089	3.000	
Test Loop Gain - 6		Master	1.000	0.950	1.019	1.050	
Test Loop Phase - 6	deg	Master	0	-3.000	0.241	3.000	
Test Loop Gain - 7		Master	1.000	0.950	1.029	1.050	
Test Loop Phase - 7	deg	Master	0	-3.000	-0.190	3.000	

AIT Sonde Calibration - Sonde Error Correction




















Master (Measured):		15:20:34 20-Jun-2015					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Sonde Error Correction Real - 0	mS/m	Master	-----	-231.000	-83.421	119.000	
Sonde Error Correction Quad - 0		Master	-----	-2250.000	167.489	2250.000	
Sonde Error Correction Real - 1	mS/m	Master	-----	114.000	172.900	204.000	
Sonde Error Correction Quad - 1		Master	-----	-625.000	133.702	625.000	
Sonde Error Correction Real - 2	mS/m	Master	-----	66.000	112.263	156.000	
Sonde Error Correction Quad - 2		Master	-----	-350.000	14.209	350.000	
Sonde Error Correction Real - 3	mS/m	Master	-----	39.000	59.759	89.000	
Sonde Error Correction Quad - 3		Master	-----	-250.000	53.502	250.000	
Sonde Error Correction Real - 4	mS/m	Master	-----	15.000	23.174	35.000	
Sonde Error Correction Quad - 4		Master	-----	-63.000	-11.904	63.000	
Sonde Error Correction Real - 5	mS/m	Master	-----	4.000	14.161	24.000	
Sonde Error Correction Quad - 5		Master	-----	-50.000	1.483	50.000	
Sonde Error Correction Real - 6	mS/m	Master	-----	5.000	9.491	15.000	
Sonde Error Correction Quad - 6		Master	-----	-30.000	4.963	30.000	
Sonde Error Correction Real - 7	mS/m	Master	-----	-5.000	-0.775	5.000	
Sonde Error Correction Quad - 7		Master	-----	-30.000	2.698	30.000	

AIT Mud Calibration - Mud Calibration Gain

Master (EEPROM):		14:11:06 18-Jan-2015 Expired by 98 days					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Coarse Gain		Master	1.000	0.800	0.820	1.200	
Fine Gain		Master	1.000	0.800	0.818	1.200	

AIT Electronics Check - Thru Calibration Check

Master (EEPROM):		14:11:06 18-Jan-2015 Expired by 98 days		Before (Measured):		04:20:02 26-Jul-2015	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Thru Cal Mag - 0	V	Master	-----	0.363	0.624	0.847	
		Before	-----	0.363	0.627	0.847	
		Before-Master	-----	-----	0.003	-----	

Thru Cal Phase - 0	deg	Master Before Before-Master	----- ----- -----	11.000 11.000 -----	74.306 74.538 0.232	131.000 131.000 -----	
Thru Cal Mag - 1	V	Master Before Before-Master	----- ----- -----	0.762 0.762 -----	1.278 1.285 0.007	1.778 1.778 -----	
Thru Cal Phase - 1	deg	Master Before Before-Master	----- ----- -----	10.000 10.000 -----	73.283 73.499 0.216	130.000 130.000 -----	
Thru Cal Mag - 2	V	Master Before Before-Master	----- ----- -----	0.374 0.374 -----	0.633 0.637 0.004	0.872 0.872 -----	
Thru Cal Phase - 2	deg	Master Before Before-Master	----- ----- -----	6.000 6.000 -----	69.110 69.311 0.201	126.000 126.000 -----	
Thru Cal Mag - 3	V	Master Before Before-Master	----- ----- -----	0.422 0.422 -----	0.720 0.723 0.003	0.986 0.986 -----	
Thru Cal Phase - 3	deg	Master Before Before-Master	----- ----- -----	5.000 5.000 -----	68.209 68.411 0.202	125.000 125.000 -----	
Thru Cal Mag - 4	V	Master Before Before-Master	----- ----- -----	0.802 0.802 -----	1.341 1.348 0.007	1.872 1.872 -----	
Thru Cal Phase - 4	deg	Master Before Before-Master	----- ----- -----	-1.000 -1.000 -----	61.265 61.441 0.176	119.000 119.000 -----	
Thru Cal Mag - 5	V	Master Before Before-Master	----- ----- -----	1.173 1.173 -----	1.937 1.947 0.010	2.737 2.737 -----	
Thru Cal Phase - 5	deg	Master Before Before-Master	----- ----- -----	-3.000 -3.000 -----	59.112 59.251 0.139	117.000 117.000 -----	
Thru Cal Mag - 6	V	Master Before Before-Master	----- ----- -----	1.173 1.173 -----	1.933 1.943 0.010	2.737 2.737 -----	
Thru Cal Phase - 6	deg	Master Before Before-Master	----- ----- -----	-3.000 -3.000 -----	59.177 59.316 0.139	117.000 117.000 -----	
Thru Cal Mag - 7	V	Master Before Before-Master	----- ----- -----	0.849 0.849 -----	1.376 1.382 0.006	1.981 1.981 -----	
Thru Cal Phase - 7	deg	Master Before Before-Master	----- ----- -----	-7.000 -7.000 -----	53.702 53.636 -0.066	113.000 113.000 -----	
SPA Zero	mV	Master Before Before-Master	----- ----- -----	-50.000 -50.000 -----	-0.042 -0.040 0.002	50.000 50.000 -----	
SPA Plus	mV	Master Before Before-Master	----- ----- -----	941.000 941.000 -----	993.193 992.892 -0.301	1040.000 1040.000 -----	
Temperature Zero	V	Master Before Before-Master	----- ----- -----	-0.050 -0.050 -----	0.000 0.000 0.000	0.050 0.050 -----	
Temperature Plus	V	Master Before Before-Master	----- ----- -----	0.870 0.870 -----	0.920 0.920 0.000	0.960 0.960 -----	

HDRS-H (HILT Density and Rxo Sonde, 150 degC) Calibration - Run ONE			
Primary Equipment :			
HILT High-Resolution Control Cartridge, 150 degC	HRCC-H	4881	
HILT Resistivity Gamma-Ray Density Device, 150 degC	HRGD-H	3871	

Auxiliary Equipment :

HRDD Backscatter Detector	Backscatter	
HRDD Long Spacing Detector	Long Spacing	28629
HRDD Short Spacing Detector	Short Spacing	
Cesium 137 Gamma-Ray Logging Source	GSR-J	5471
HILT High-Resolution Control Cartridge, 150 degC	HRCC-H	4881
HILT High-Resolution Mechanical Sonde, 150 degC	HRMS-H	4819

Calibration Parameter :

Small Ring Size (Caliper Calibration Small Ring)	8.90
Large Ring Size (Caliper Calibration Large Ring)	12.00

HDRS Caliper Calibration - Caliper Accumulations

Before (Measured): 02:32:02 20-Jul-2015 Expired by 5 days

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Small Ring	in	Before	8.90	6.68	8.16	11.13	
Large Ring	in	Before	12.00	9.00	11.33	15.00	

HDRS Density Calibration - Inversion Results

Master (EEPROM): 10:10:08 08-Jul-2015

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Rho Aluminum	g/cm3	Master	2.596	2.586	2.600	2.606	
Rho Magnesium	g/cm3	Master	1.686	1.676	1.685	1.696	
Pe Aluminum		Master	2.570	2.470	2.574	2.670	
Pe Magnesium		Master	2.650	2.550	2.618	2.750	

HDRS Density Calibration - Deviation Summary

Master (EEPROM): 10:10:08 08-Jul-2015

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Average Deviation	%	Master	0	-0.6000	0.2392	0.6000	
BS Max Deviation	%	Master	0	-1.6000	0.6041	1.6000	
SS Average Deviation	%	Master	0	-1.0000	0.2431	1.0000	
SS Max Deviation	%	Master	0	-2.5000	0.8036	2.5000	
LS Average Deviation	%	Master	0	-1.5000	0.6788	1.5000	
LS Max Deviation	%	Master	0	-3.5000	1.5946	3.5000	

HDRS Density Calibration - Background Summary

Master (EEPROM): 10:10:08 08-Jul-2015 Before (Measured): 02:07:55 20-Jul-2015 Expired by 5 days

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Window Ratio		Master	1.0000		0.7412		
		Before	0.7484	0.7109	0.7488	0.7858	
		Before-Master	----	----	0.0076	----	
BS Window Sum	1/s	Master	1		22489		
		Before	22966	21818	22927	24114	
		Before-Master	----	----	438	----	
SS Window Ratio		Master	1.0000		0.4904		
		Before	0.4879	0.4635	0.4862	0.5122	
		Before-Master	----	----	-0.0042	----	
SS Window Sum	1/s	Master	1		10314		
		Before	10775	10237	10764	11314	
		Before-Master	----	----	450	----	
LS Window Ratio		Master	1.0000		0.2961		
		Before	0.3029	0.2878	0.2979	0.3181	
		Before-Master	----	----	0.0018	----	
LS Window Sum	1/s	Master	1		1185		
		Before	1171	1113	1176	1230	
		Before-Master	----	----	-9	----	

HDRS Density Calibration - Photo-multiplier High Voltages

Master (EEPROM): 10:10:08 08-Jul-2015 Before (Measured): 02:07:55 20-Jul-2015 Expired by 5 days

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS PM High Voltage	V	Master		1000	1372	2400	



Accelerometer Coefficients - 9		Master	----	----	0.993	----	
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## HGNS Neutron Calibration - HGNS Neutron Accumulations

Master (EEPROM):		20:38:40 17-Jun-2015		Before (Measured):		02:03:19 20-Jul-2015 Expired by 5 days	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Near Zero Measurement	1/s	Master	0	5.0	28.8	40.0	
		Before	0	5.0	27.3	40.0	
		Before-Master	----	-4.3	-1.5	4.3	
Far Zero Measurement	1/s	Master	0	5.0	32.6	40.0	
		Before	0	5.0	29.2	40.0	
		Before-Master	----	-4.9	-3.4	4.9	
Near Plus Measurement	1/s	Master	6031.0	4700.0	5549.0	6900.0	
		Before	----	----	----	----	
		Before-Master	----	----	----	----	
Far Plus Measurement	1/s	Master	2793.0	1900.0	2287.0	2900.0	
		Before	----	----	----	----	
		Before-Master	----	----	----	----	
Near Corrected Plus Measurement	1/s	Master		4700.0	5604.0	6900.0	
		Before	----	----	----	----	
		Before-Master	----	----	----	----	
Far Corrected Plus Measurement	1/s	Master		1900.0	2307.0	2900.0	
		Before	----	----	----	----	
		Before-Master	----	----	----	----	

## HGNS Gamma-Ray Calibration - Gamma-Ray Accumulations

Before (Measured):		02:08:48 20-Jul-2015 Expired by 5 days					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
RGR Zero Measurement	gAPI	Before	30.0	0	65.0	120.0	
RGR Plus Measurement	gAPI	Before	185.4	157.1	177.2	206.3	
GR Calibration Gain		Before	0.89	0.80	0.93	1.05	

Company:	SG Interests I, LTD	Schlumberger
Well:	Falcon Seaboard 11-90-12 #3	
Field:	Bull Mountain #7819	
County:	Gunnison	
Country:	US	
Platform Express		
Triple Combo		