Schlumberger

Company: **NEW GULF OPERATING LLC**

Well: **BEVERLY #1**
Field: **VINCENT**
County: **RENO** State: **KANSAS**

County: RENO
Field: VINCENT
Location: 4290 FSL & 2870 FEL
Well: BEVERLY #1
Company: NEW GULF OPERATING LLC

TRIPLE COMBO LOG

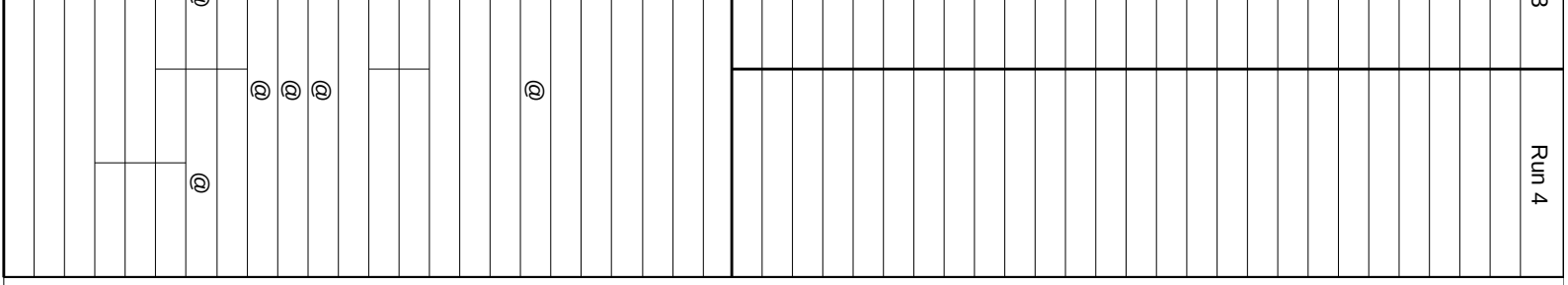
LOCATION

4290 FSL & 2870 FEL		Elev.: K.B.	1736.00 ft
		G.L.	1729.00 ft
		D.F.	1735.00 ft
Permanent Datum:	GROUND LEVEL	Elev.:	1729.00 ft
Log Measured From:	KELLY BUSHING	7.00 ft	above Perm. Datum
Drilling Measured From:	KELLY BUSHING		

API Serial No.	Section:	Township:	Range:
15-155-21310-00-0	12	24S	10W

	Run 1	Run 2	Run 3
Logging Date	10-Mar-2010		
Run Number	1		
Depth Driller	4201 ft		
Schlumberger Depth	4198 ft		
Bottom Log Interval	4198 ft		
Top Log Interval	251 ft		
Casing Driller Size @ Depth	8.625 in @ 247 ft	@	
Casing Schlumberger	251 ft		
Bit Size	7.875 in		
Type Fluid In Hole	WATER BASED MUD		
MUD Density / Viscosity	9.1 lbm/gal / 47 s		
MUD Fluid Loss / PH	10 cm3 / 10		
MUD Source Of Sample	MUD PIT		
RM @ Measured Temperature	0.851 ohm.m @ 30 degF	@	
RMF @ Measured Temperature	0.303 ohm.m @ 75 degF	@	
RMC @ Measured Temperature	0.388 ohm.m @ 75 degF	@	
Source RMF / RMC	CALCULATED / CALCULATED		
RM @ MRT / RMF @ MRT	0.280 @ 105 / 0.222 @ 105	@ / @	
Maximum Recorded Temperatures	105 degF		
Circulation Stopped / Time	10-Mar-2010 / 5:00		
Logger On Bottom / Time	10-Mar-2010 / 11;00		
Unit Number / Location	2281 / ELK CITY		
Recorded By	MIKE OLOYEDE/KHALID		
Witnessed By	MR. JOE BAKER		

	Run 1	Run 2	Run 3
Logging Date			
Run Number			
Depth Driller			
Schlumberger Depth			
Bottom Log Interval			
Top Log Interval			
Casing Driller Size @ Depth	@		
Casing Schlumberger			
Bit Size			
Type Fluid In Hole			
MUD Density / Viscosity			
MUD Fluid Loss / PH			
MUD Source Of Sample			
RM @ Measured Temperature	@		
RMF @ Measured Temperature	@		
RMC @ Measured Temperature	@		
Source RMF / RMC			
RM @ MRT / RMF @ MRT	@ / @		@
Maximum Recorded Temperatures			
Circulation Stopped / Time			
Logger On Bottom / Time			
Unit Number / Location			
Recorded By			
Witnessed By			



DEPTH SUMMARY LISTING

Date Created: 10−MAR−2010 9:36:06

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW−B	Type:	CMTD−B/A	Type:	7−46A XS
Serial Number:	5938	Serial Number:	2773	Serial Number:	707020
Calibration Date:	1−FEB−2010	Calibration Date:	25−FEB−201(	Length:	24800 FT
Calibrator Serial Number:	33	Calibrator Serial Number:	1018		
Calibration Cable Type:	7−46A XS	Number of Calibration Points:	10	Conveyance Method:	Wireline
Wheel Correction 1:	−6	Calibration RMS:	12	Rig Type:	LAND
Wheel Correction 2:	−6	Calibration Peak Error:	22		

Depth Control Parameters

Log Sequence:	First Log In the Well
Rig Up Length At Surface:	225.60 FT
Rig Up Length At Bottom:	224.90 FT
Rig Up Length Correction:	0.70 FT
Stretch Correction:	
Tool Zero Check At Surface:	0.80 FT

Depth Control Remarks

1. ALL SCHLUMBERGER DEPTH CONTROL POLICIES AND PROCEDURES ARE FOLLOWEI
2. IDW USED AS PRIMARY DEPTH CONTROL DEVICE
3. Z−CHART USED AS SECONDARY DEPTH CONTROL DEVICI
4. DOWLONG USED AS ON−DEPTH CORRELATION LOG FROM TD TO 1000F
5.
6.

OTHER SERVICES1	OTHER SERVICES2
OS1: ARRAY INDUCTION	OS1:
OS2: GAMMA RAY − SP	OS2:
OS3: HOLE & CEMENT VOLUME	OS3:
OS4: COMPENSATED NEUTRON	OS4:
OS5: LITHOLOGY DENSITY	OS5:

REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Tool string ran eccentered as per tool sketch	
Logging intervals & presentations follow from wellsite geologist	
High resolution data logged from TD to 3600ft during main pass	
Density, porosity data logged using a limestone matrix (MDEN=2.71g/cc)	
Bottom hole temperature obtained from HGNS temperature sensor (Tmax=105degF)	
Future casing diameter = 5.5"	
Repeatability within tolerance for all measurements	

Your team for today: Jonathan, Steven, Khalid, Mike

Thank you for choosing Schlumberger of Elk City

580−225−4300

RUN 1			RUN 2		
SERVICE ORDER #:	B5DH−00028		SERVICE ORDER #:		
PROGRAM VERSION:	17C0−154		PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

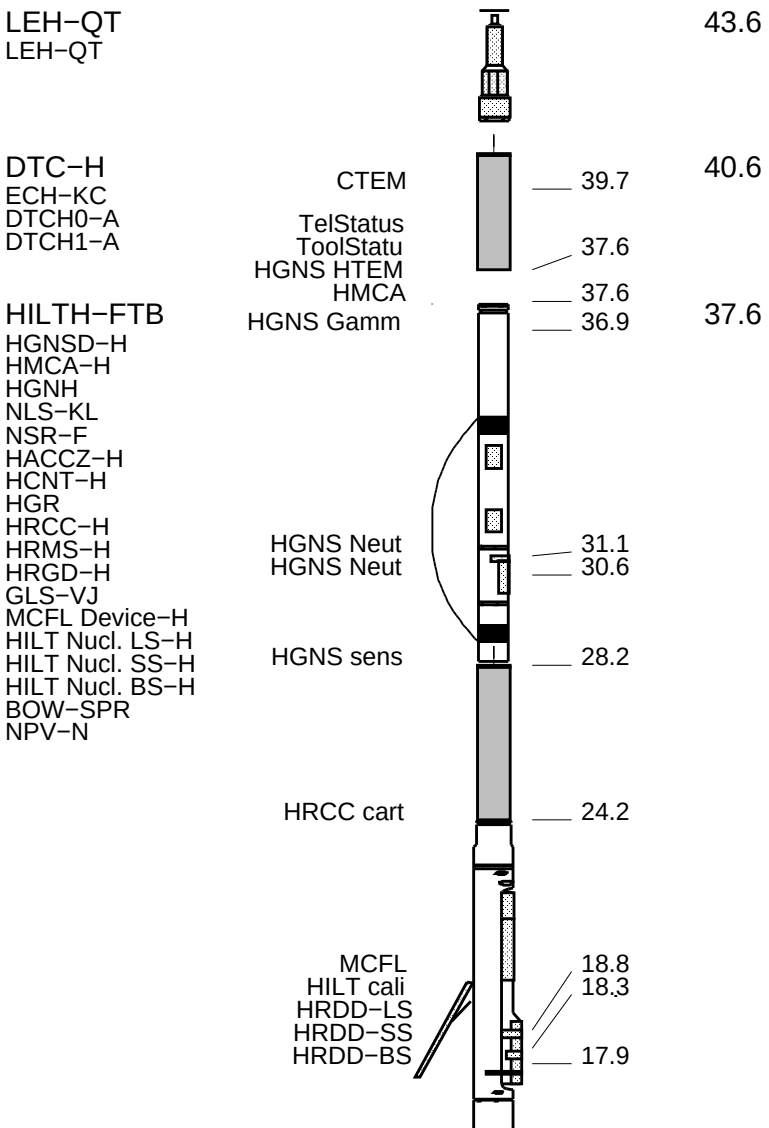
EQUIPMENT DESCRIPTION

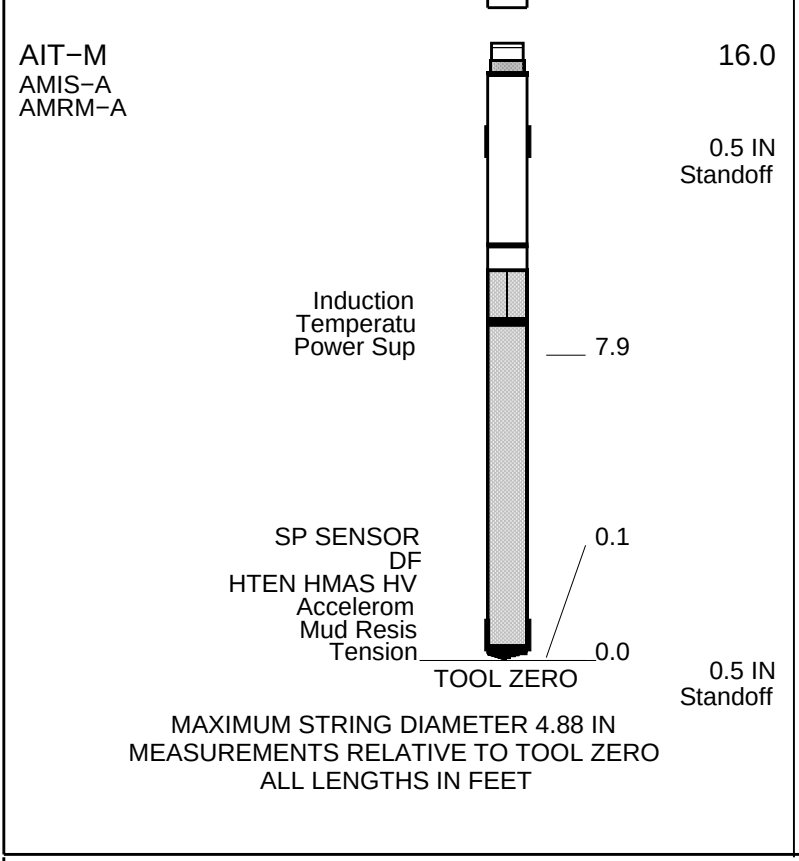
RUN 1 RUN 2

SURFACE EQUIPMENT

GSR−U/Y
NCT−B
CNB−AB
NCS−VB
WITM (DTS)−A

DOWNHOLE EQUIPMENT



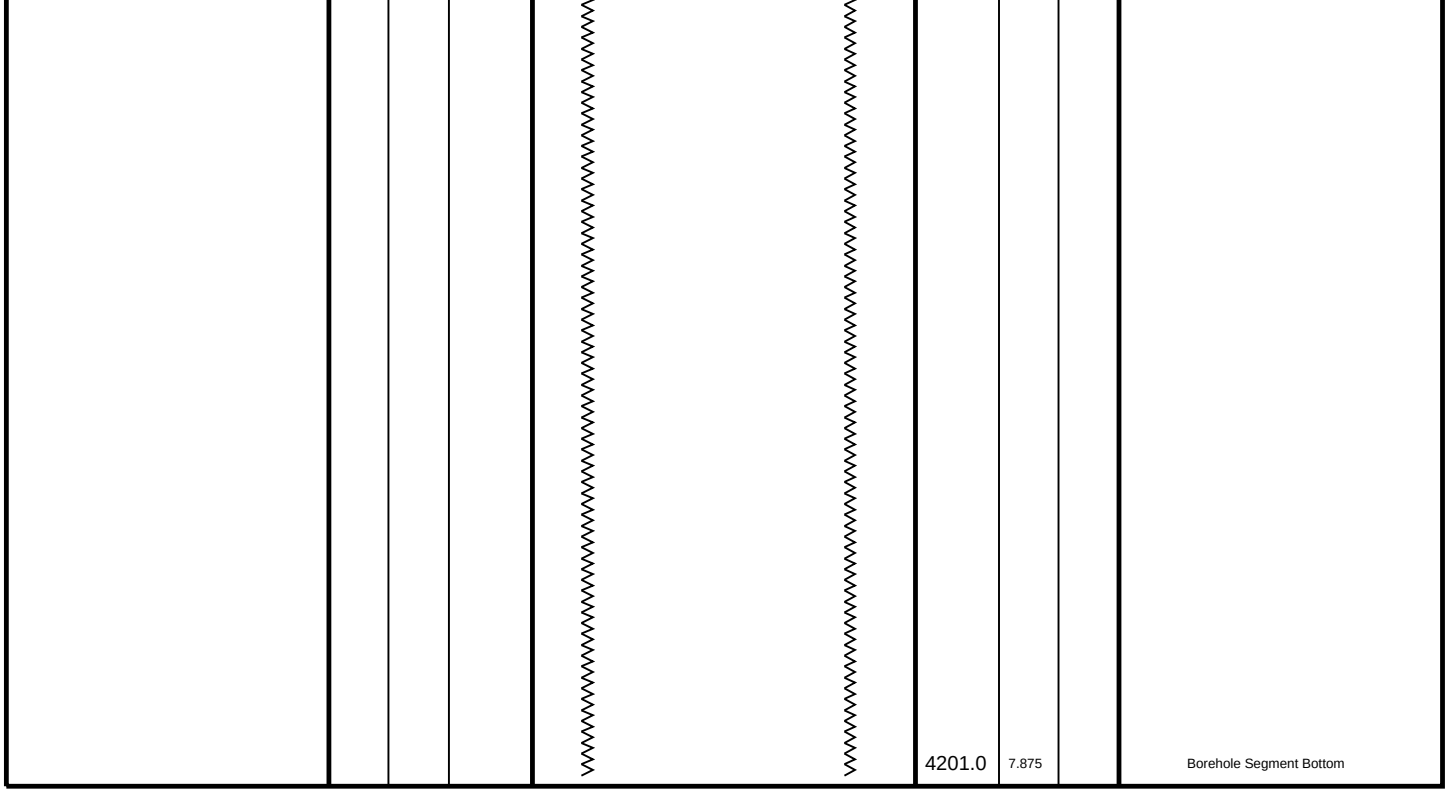


Client: NEW GULF OPERATING LLC
Well: BEVERLY #1
Field: VINCENT
State: KANSAS
Country: USA

Drawing Date: 3/10/2010
API #: 15−155−21310−00−01

Rig Name: DUKE RIG #2
Reference Datum: GROUND LEVEL
Elevation: 1729.0 ft

Production String	(in) OD	(in) ID	(ft) MD	Well Schematic	(ft) MD	(in) OD	(in) ID	Casing String
					0.0	8.625		Casing String, 24.0 lbm/ft
					247.0	8.625		Casing Shoe
					247.0	7.875		Borehole Segment



ALL DEPTHS ARE PER DRILLER'S DEPTHS

Schlumberger

Main Pass 5" = 100'

MAXIS Field Log

Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_013LUP	FN:24	PRODUCER	10−Mar−2010 11:31	4209.0 FT	133.5 FT
RTB	AIT_TLD_MCFL_CNL_013LUP	FN:25	PRODUCER	10−Mar−2010 11:32	4209.0 FT	133.5 FT
CUSTOMER	AIT_TLD_MCFL_CNL_013LUC	FN:26	CUSTOMER	10−Mar−2010 11:31	4209.0 FT	133.5 FT

Integrated Hole/Cement Volume Summary

Hole Volume = 2466.26 F3

Cement Volume = 1815.00 F3 (assuming 5.50 IN casing O.D.)

Computed from 4198.0 FT to 251.0 FT using data channel(s) HCAL

OP System Version: 17C0−154

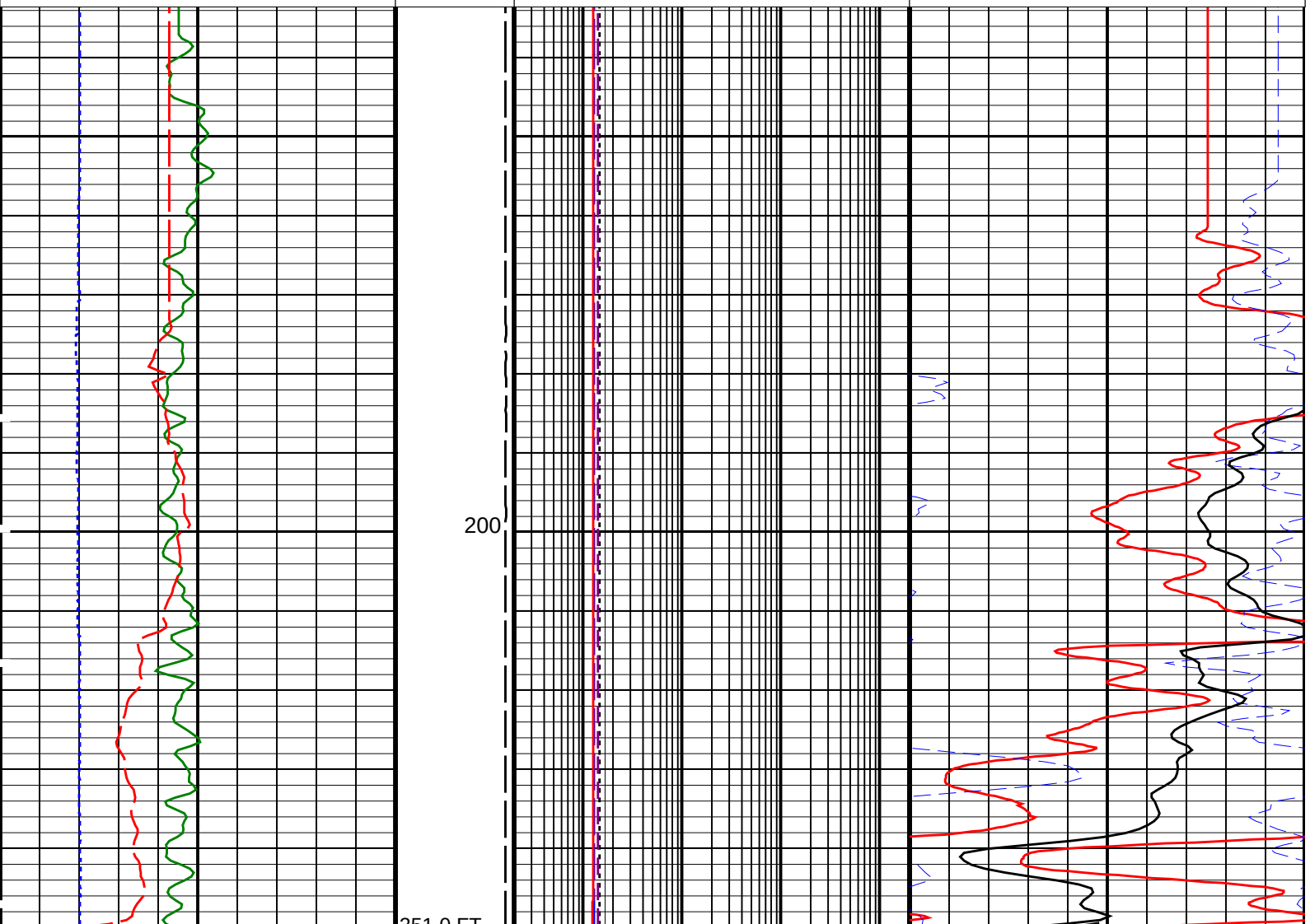
AIT−M	17C0−154	HILTH−FTB	17C0−154

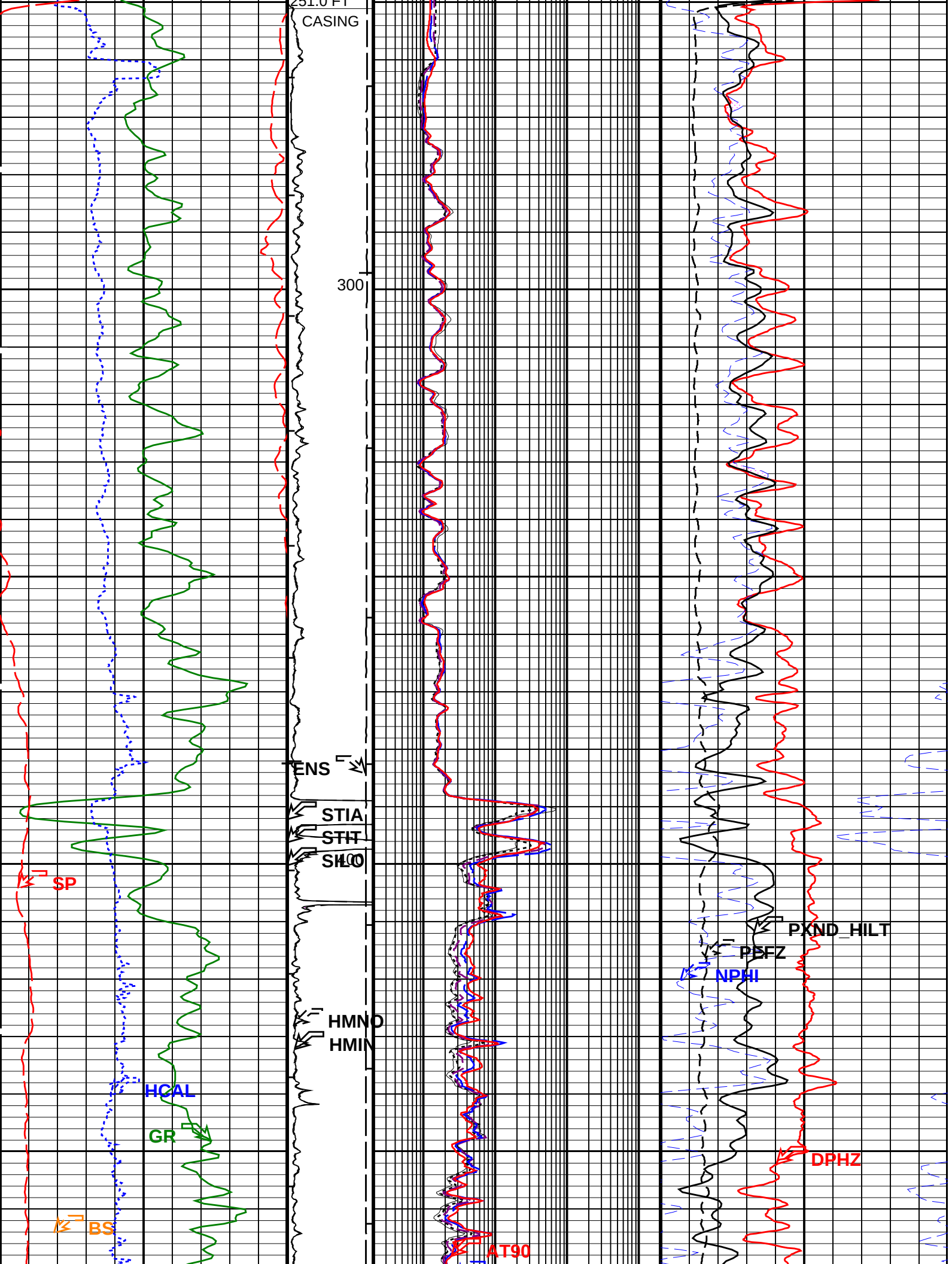
DTC-H 17C0-154

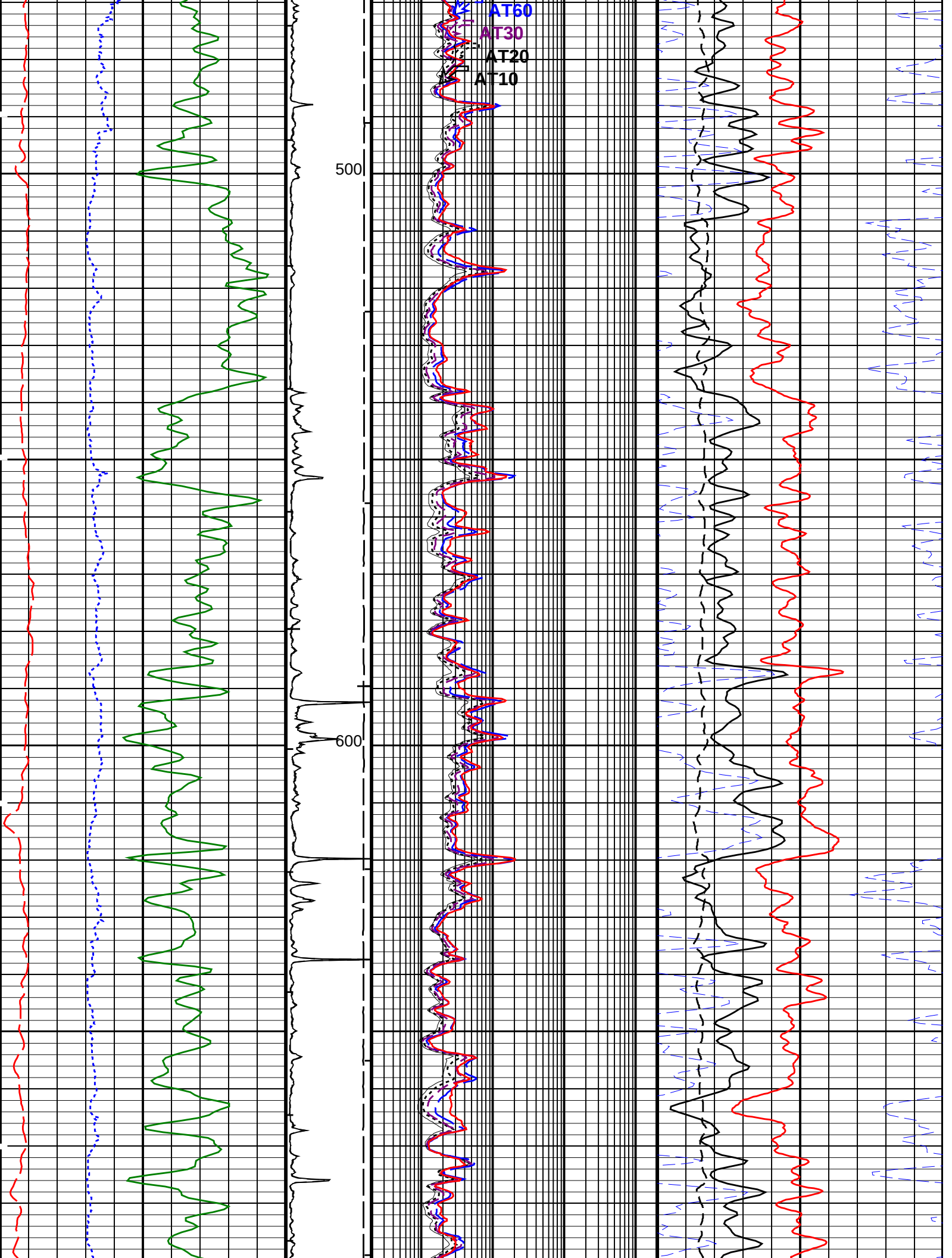
PIP SUMMARY

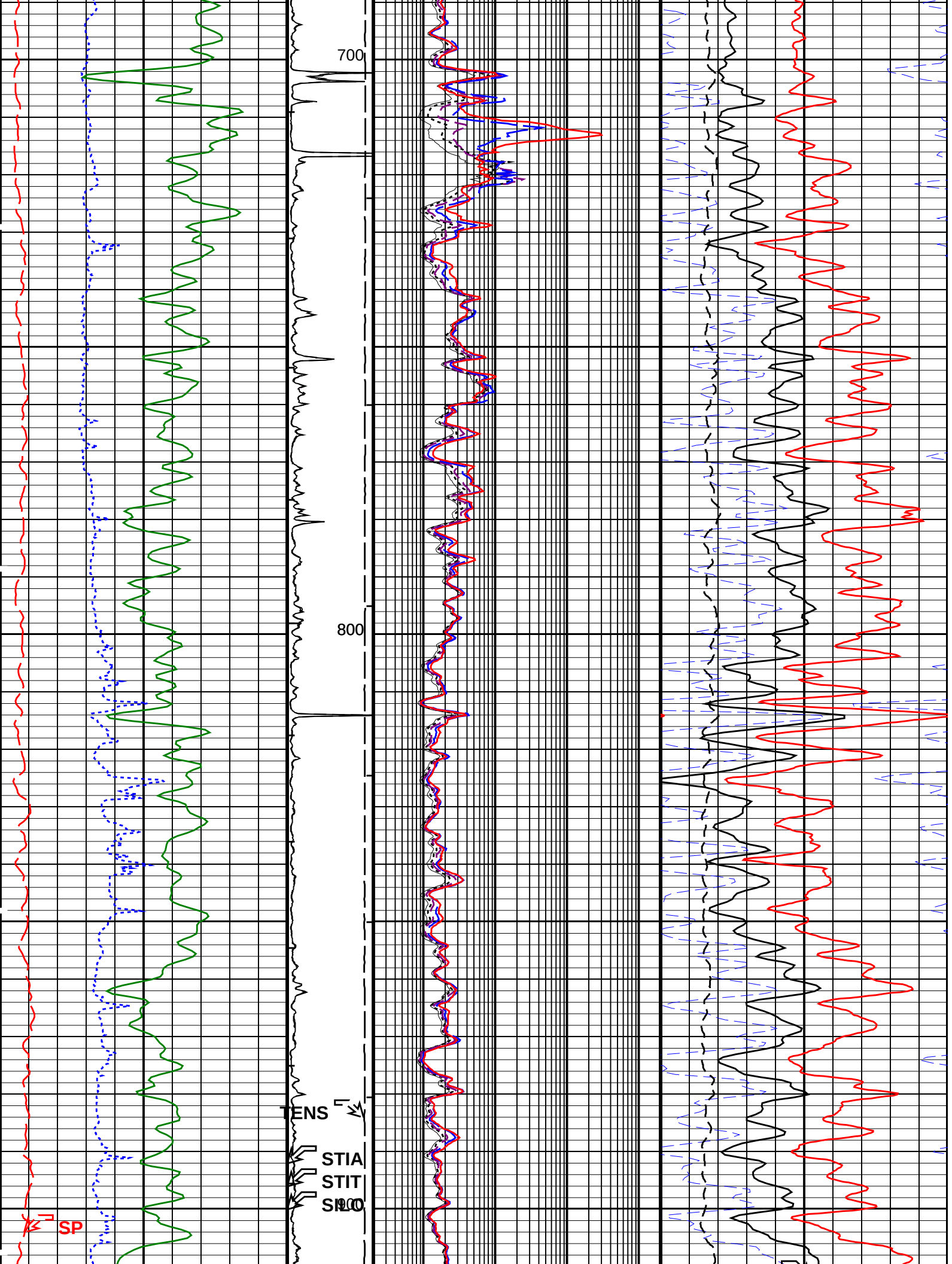
Integrated Hole Volume Minor Pip Every 10 F3
Integrated Hole Volume Major Pip Every 100 F3
Integrated Cement Volume Minor Pip Every 10 F3
Integrated Cement Volume Major Pip Every 100 F3
Time Mark Every 60 S

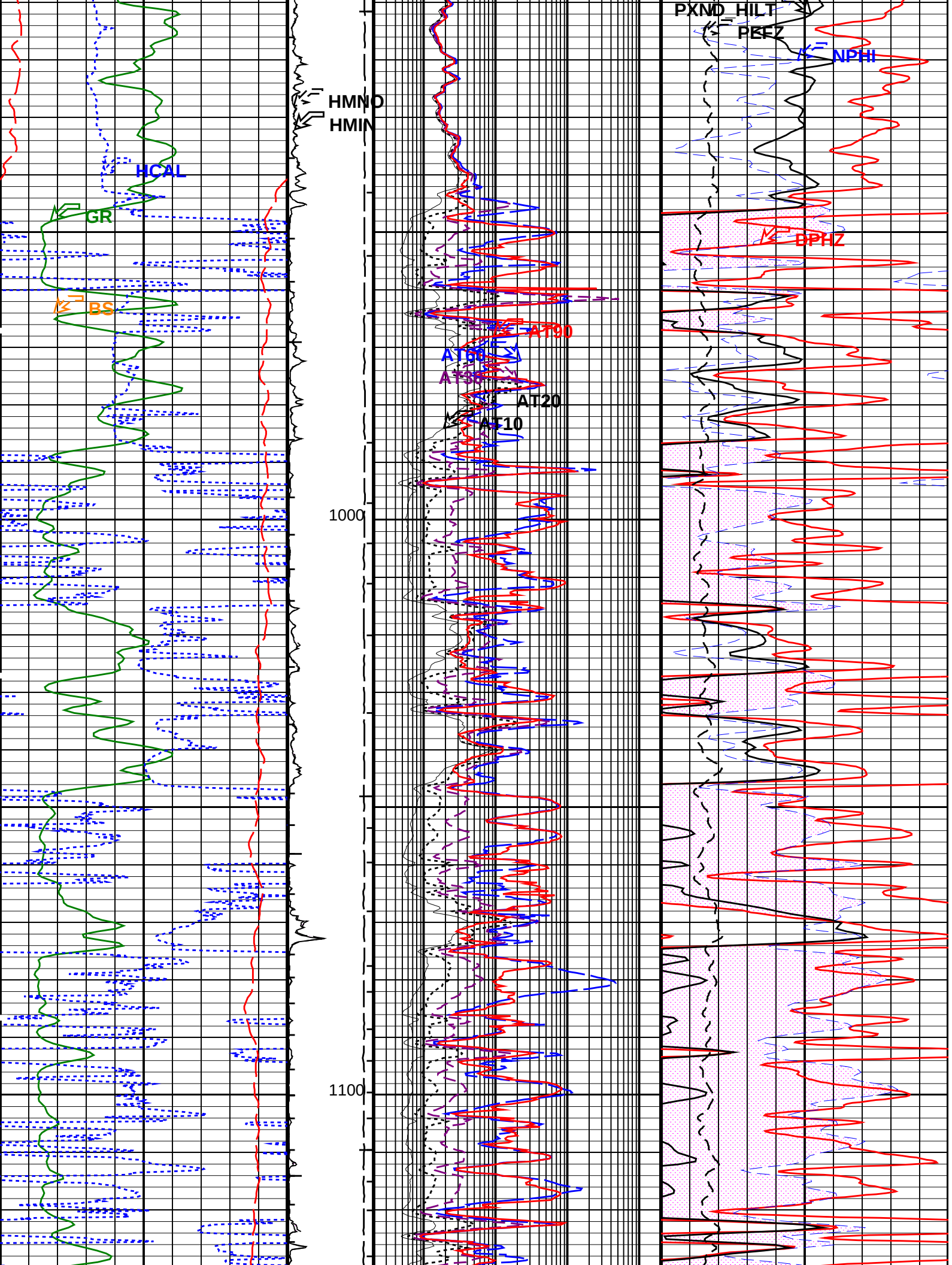
Area From HCAL to BS		AIT 90 Inch Investigation (AT90) 0.2 (OHMM) 2000	Crossover From DPHZ to NPHI
GR_BackUp From T1 to GR_1	Computed Micro Normal (HMNO) (OHMM) 0 20	AIT 60 Inch Investigation (AT60) 0.2 (OHMM) 2000	Hilt Porosity CrossPlot (PXND_HILT) 0.4 (V/V) 0
SP (SP) −160 (MV) 40	Computed Micro Inverse (HMIN) (OHMM) 0 20	AIT 30 Inch Investigation (AT30) 0.2 (OHMM) 2000	Std. Res. Formation Pe (PEFZ) 0 (---- 10
Caliper (HCAL) 6 (IN) 16	Perm. From HMIN to HMNO	AIT 20 Inch Investigation (AT20) 0.2 (OHMM) 2000	Neutron Porosity (NPHI) 0.4 (V/V) 0
Gamma Ray (GR) 0 (GAPI) 150	Tension (TENS) (LBF) 10000 0	AIT 10 Inch Investigation (AT10) 0.2 (OHMM) 2000	Std. Res. Density Porosity (DPHZ) 0.4 (V/V) 0

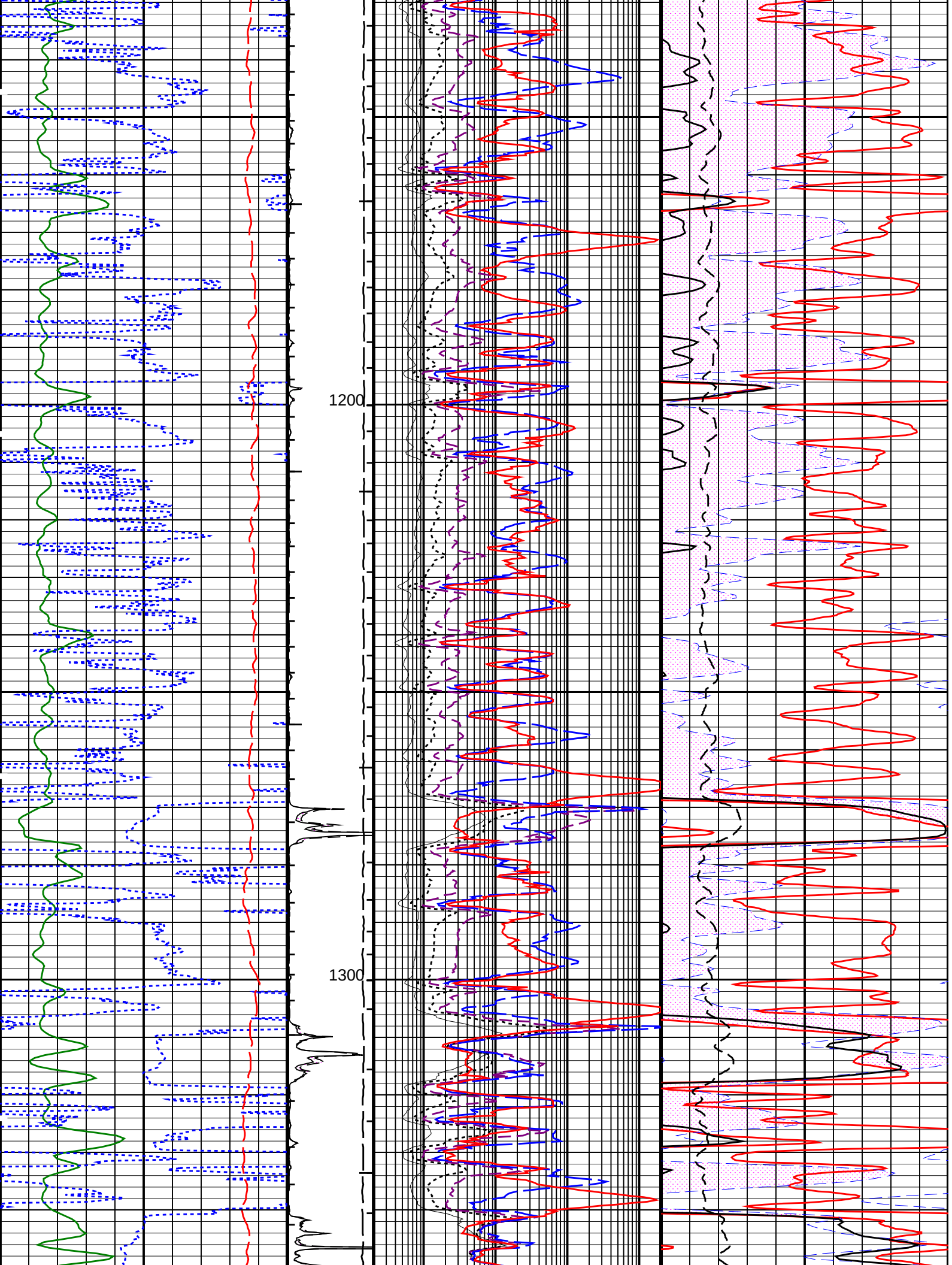


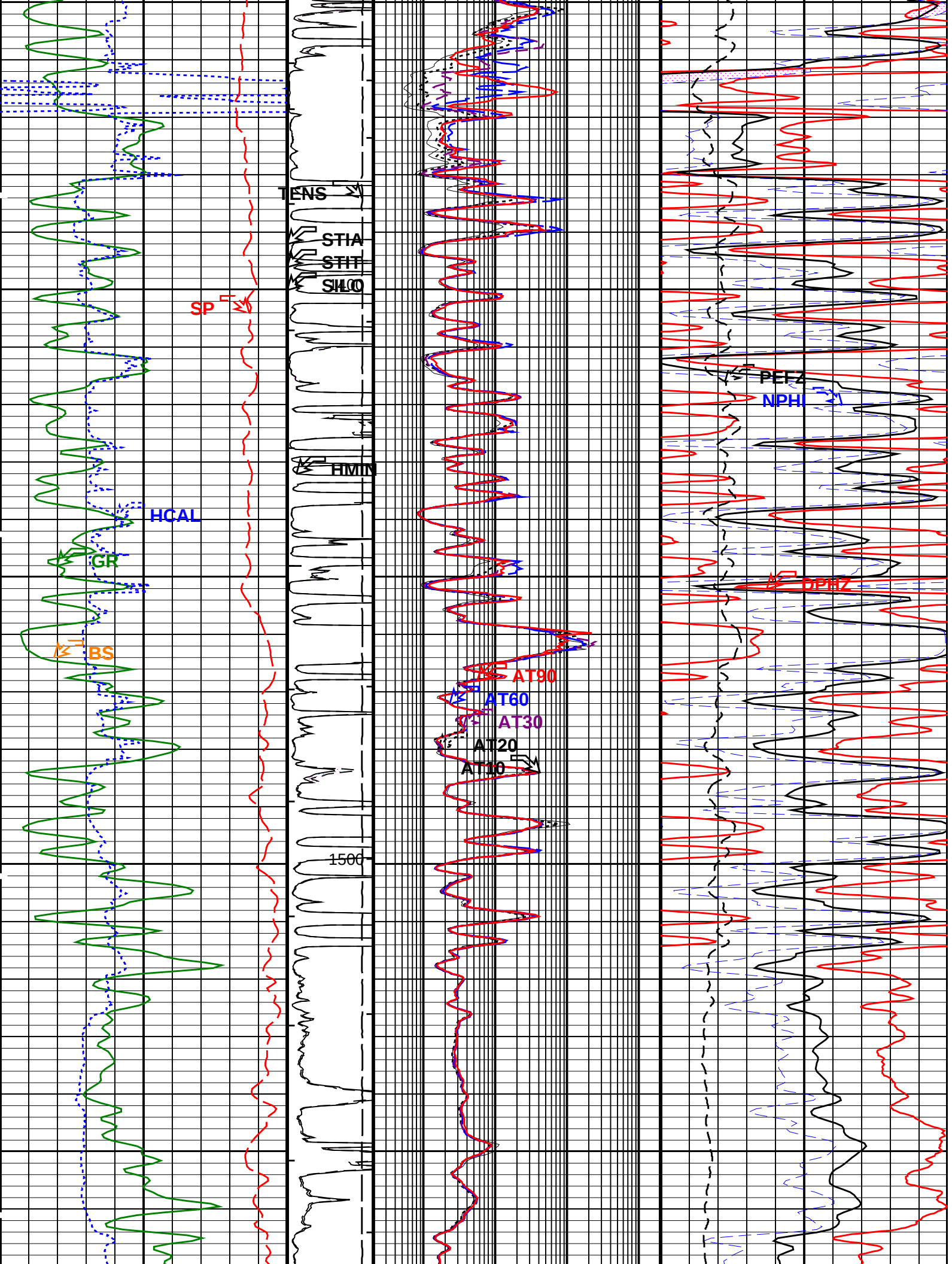

251.0 FT
CASING
300
ENS
STIA
STIT
SHOO
SP
HMNO
HMIN
HCAL
GR
BS
AT90
PXND_HILT
PEFZ
NPHI
DPHZ

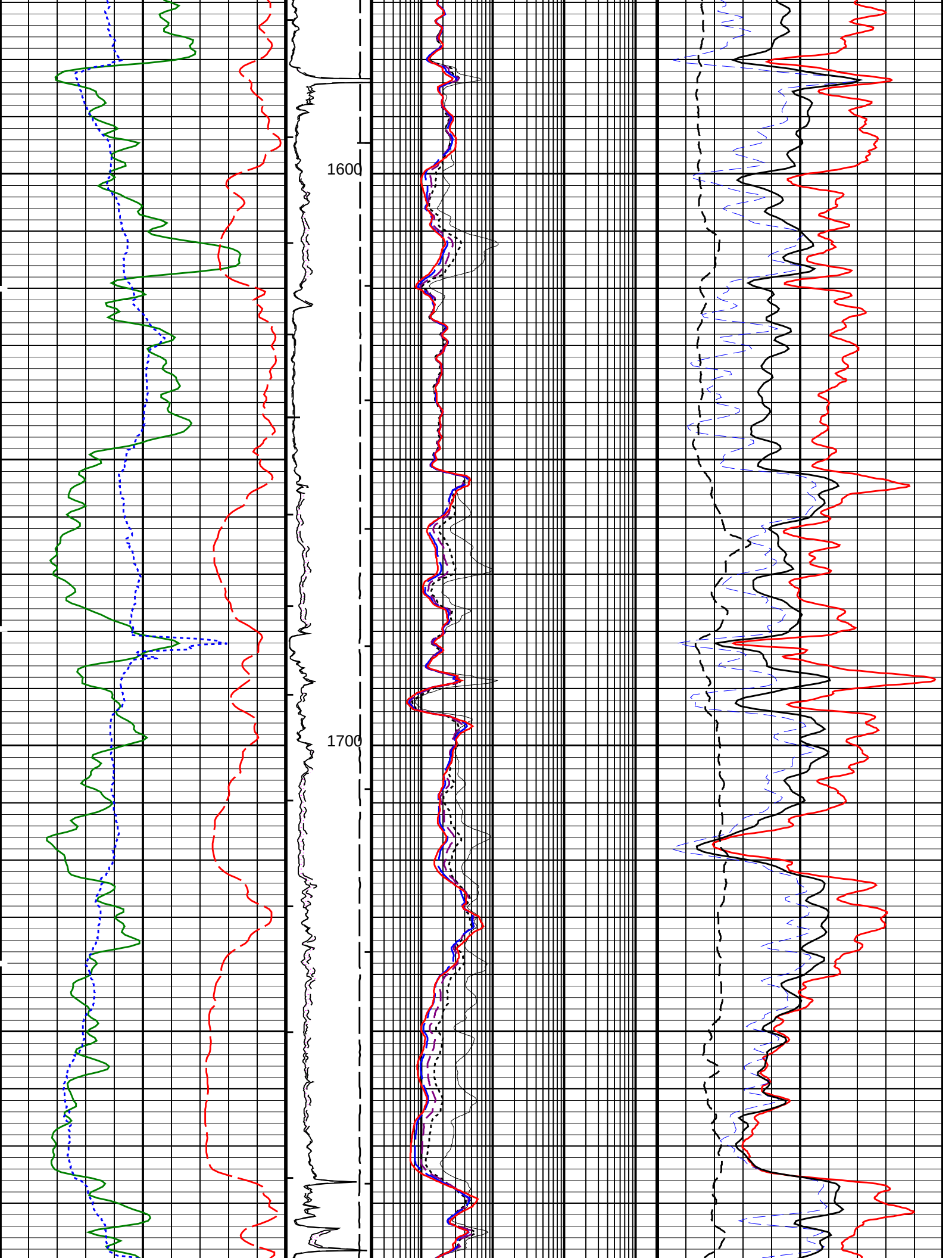

AT60
AT30
AT20
AT10
500
600

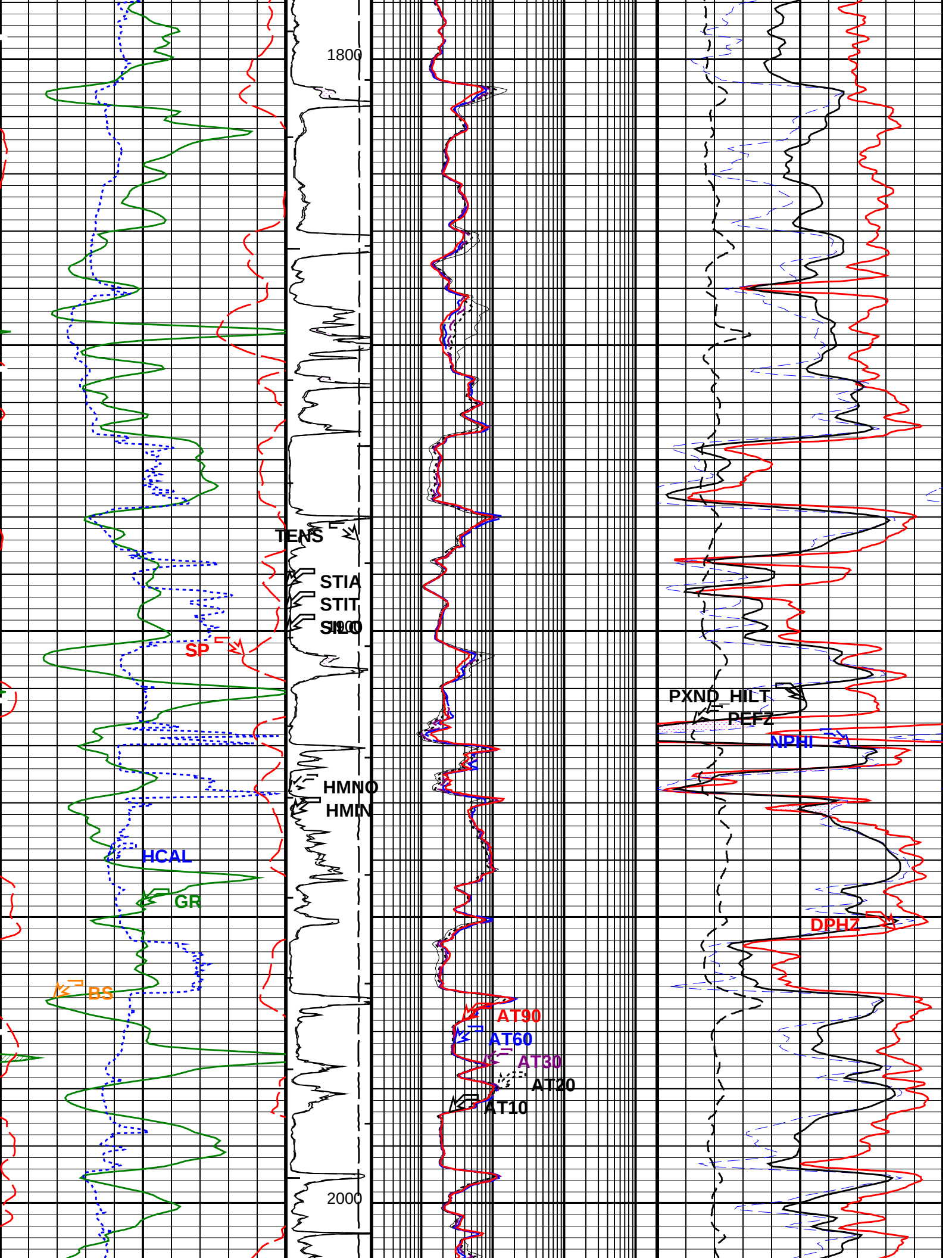

700
800
TENS
STIA
STIT
SP

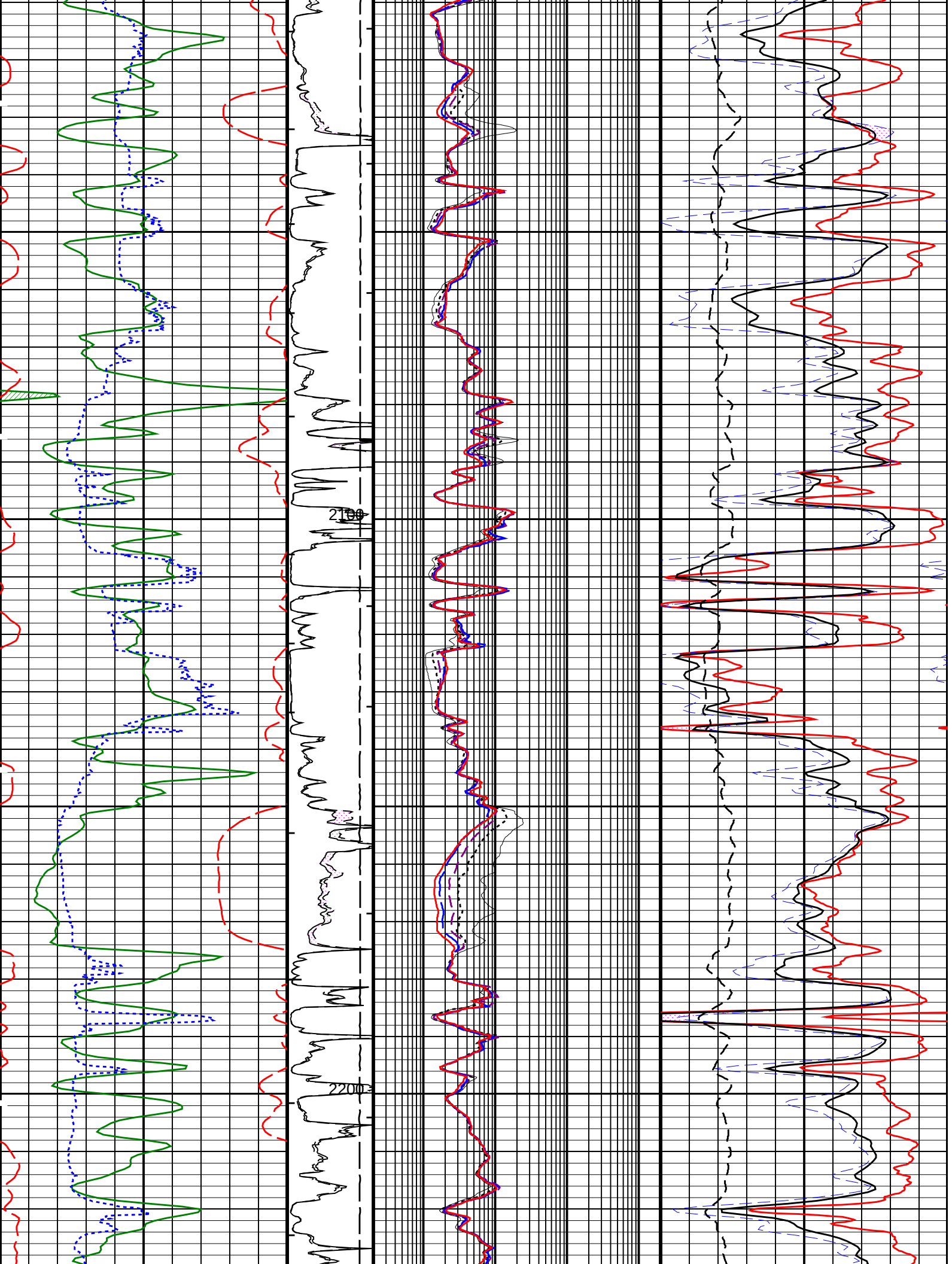

HMNO
HMIN
HCAL
GR
BS
AT90
AT60
AT30
AT20
AT10
1000
1100
PXND_HILT
PEFZ
NPHI
DPHZ

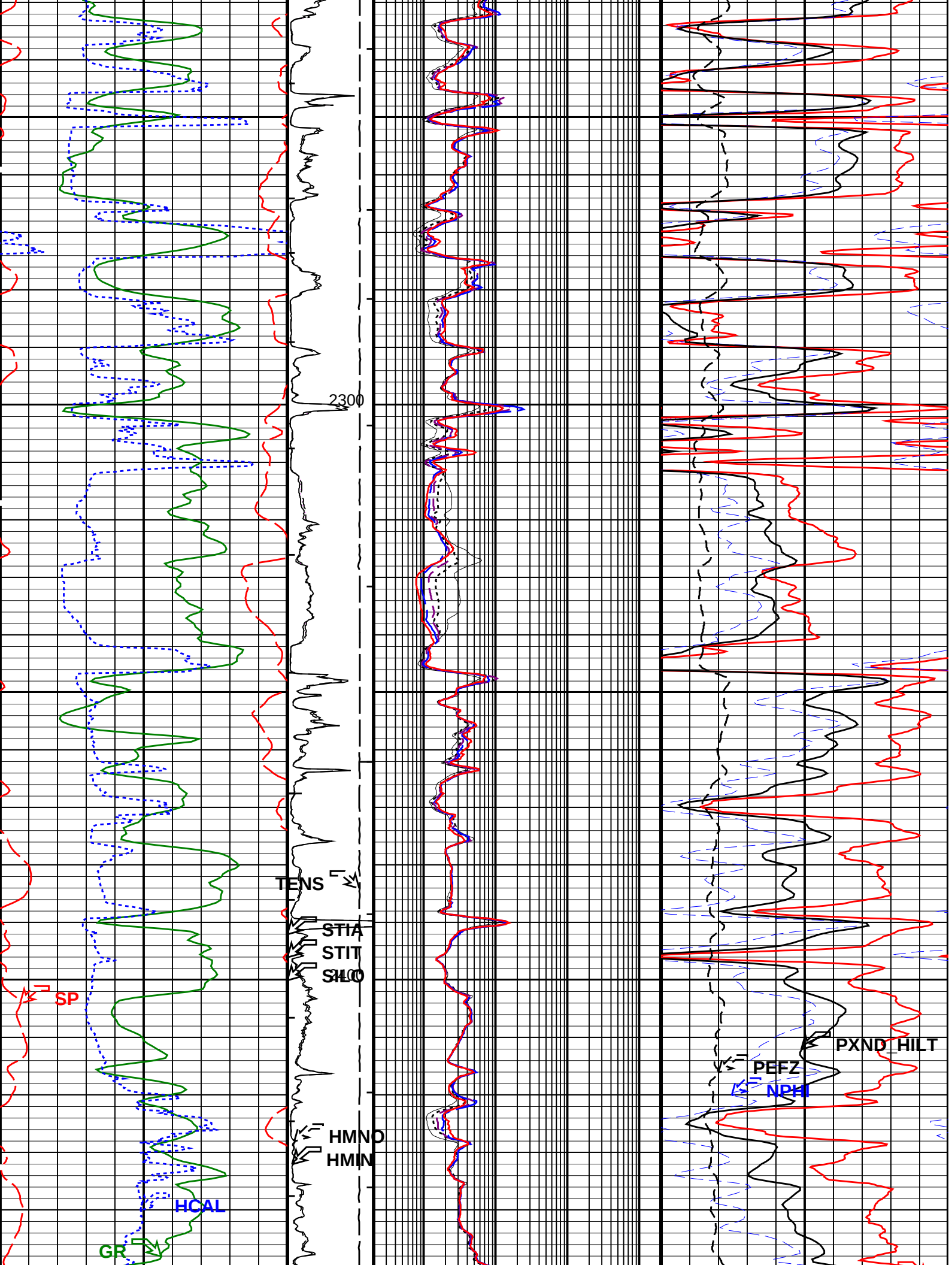

1200
1300

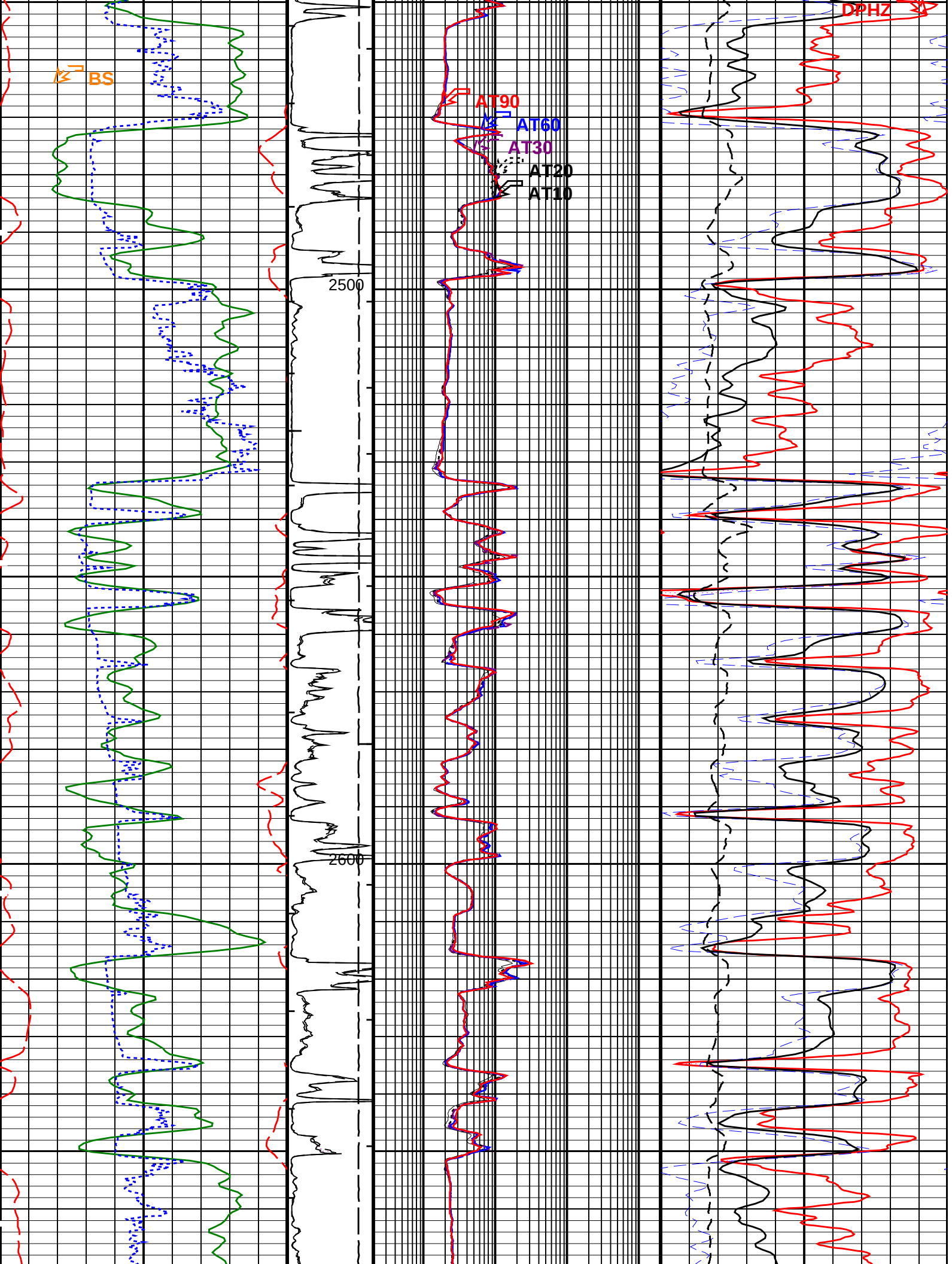

TENS
STIA
STIT
SP
HMIN
HCAL
GR
BS
AT90
AT60
AT30
AT20
AT10
1500
PEFZ
NPHI
DPHZ


1600
1700


1800
TENS
STIA
STIT
SP
PXND_HILT
PEFZ
NPHI
HMNO
HMIN
HCAL
GR
DPHZ
BS
AT90
AT60
AT30
AT20
AT10
2000


2100
2200


2300
TENS
STIA
STIT
SP
PXND_HILT
PEFZ
NPHI
HMNO
HMIN
HCAL
GR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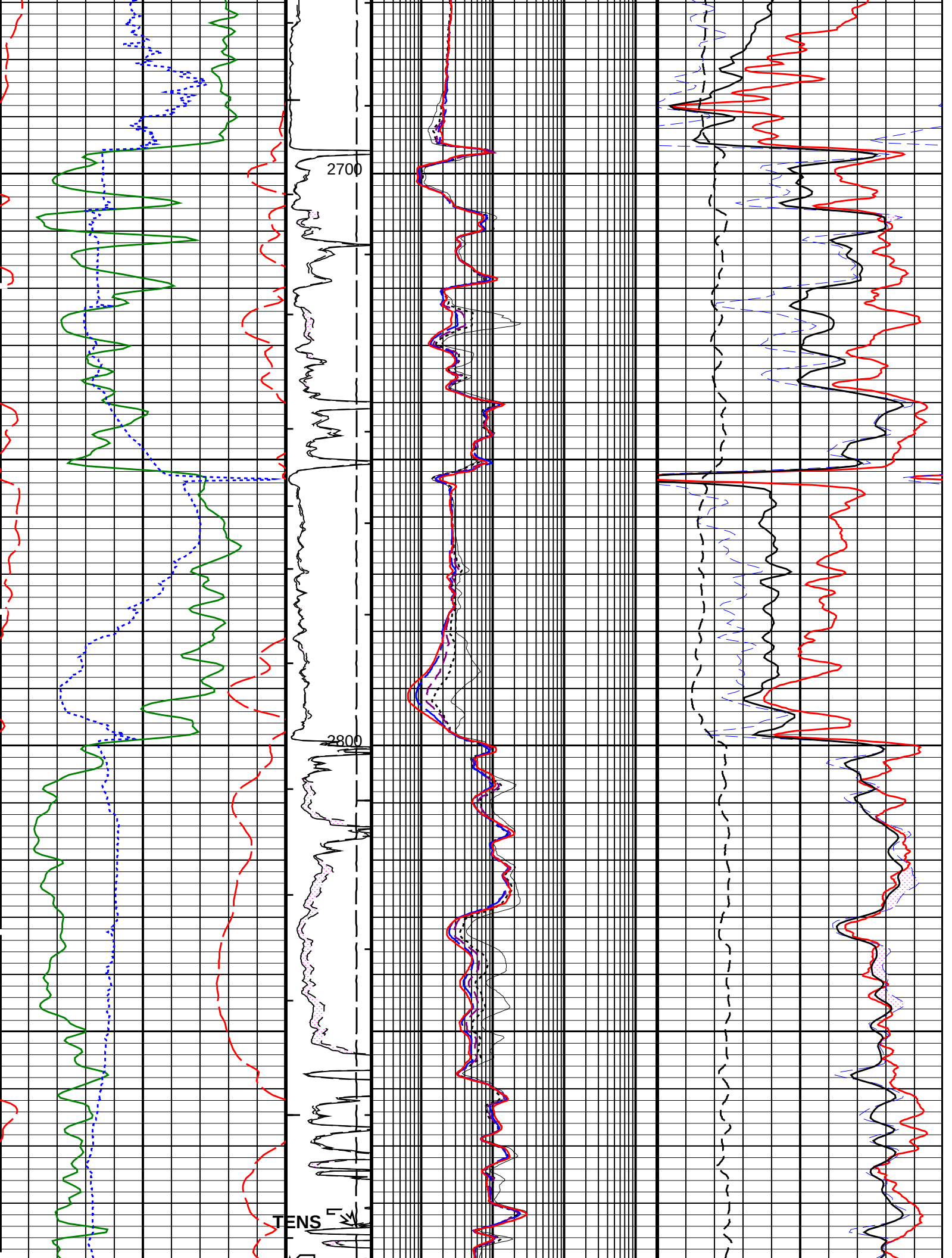
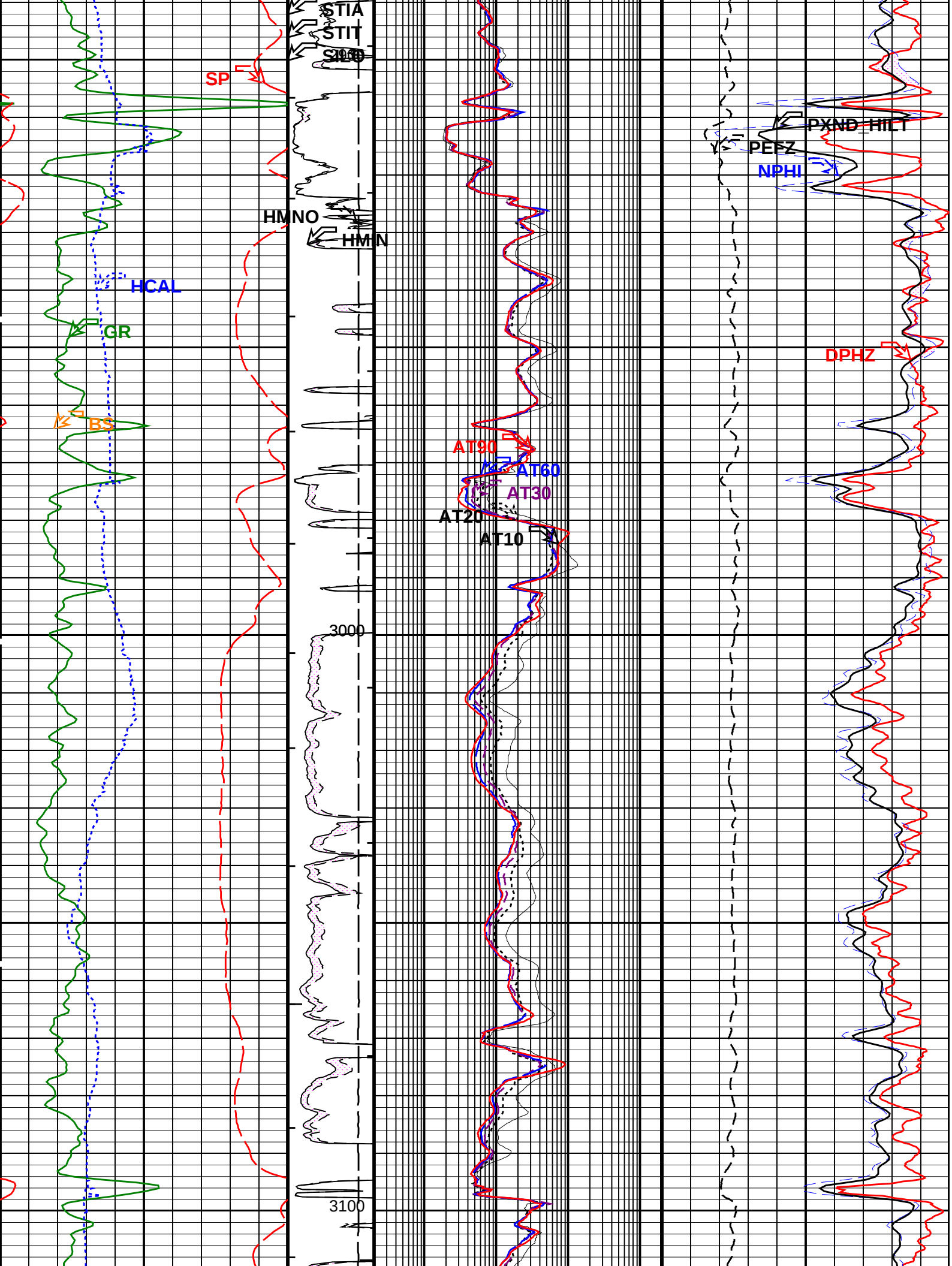
AT60
AT30
AT20
AT10
DPHZ
2500
2600


2700
2800
TENS


STIA
STIT
SP
HMNO
HMIN
HCAL
GR
BS
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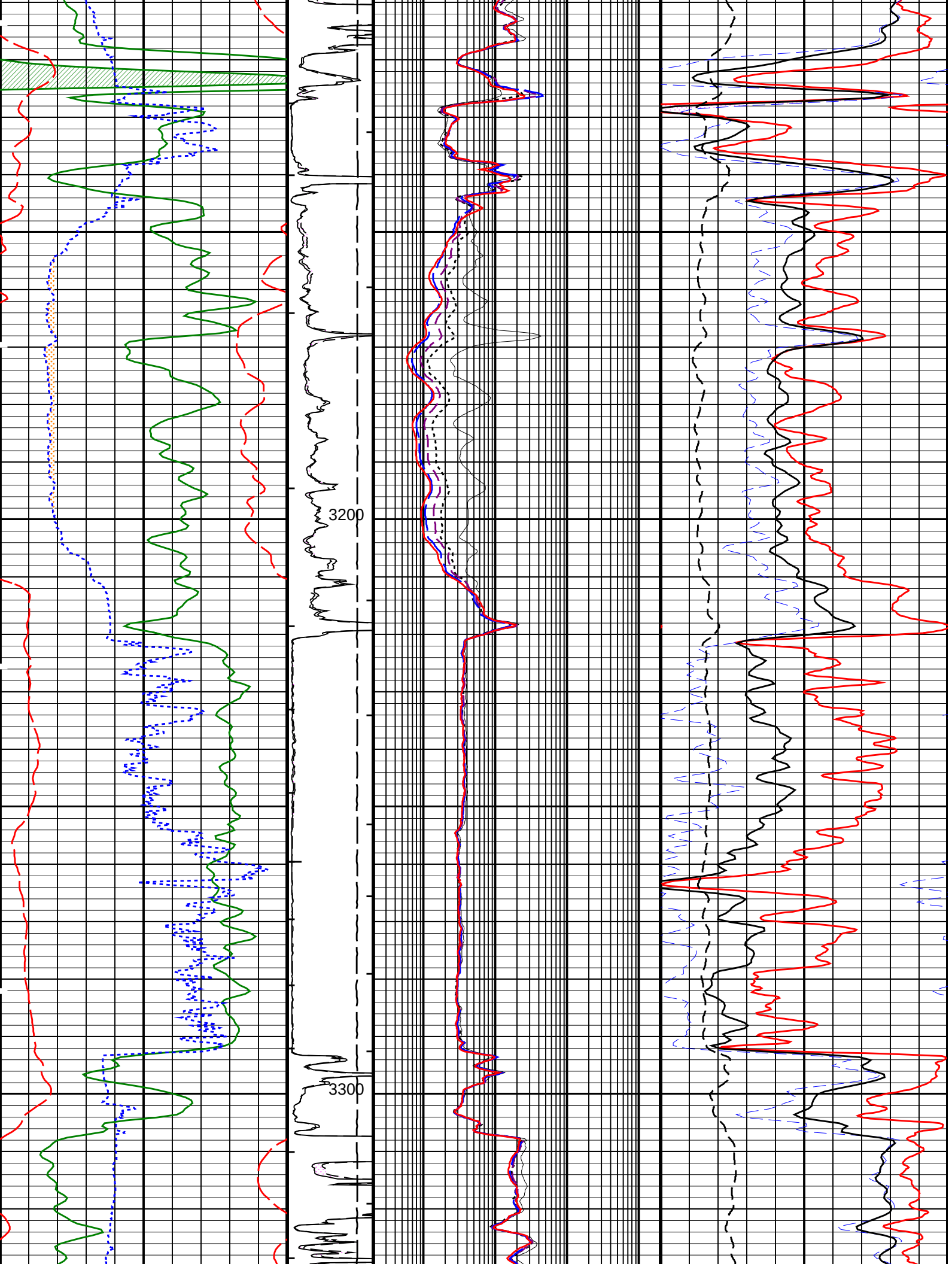
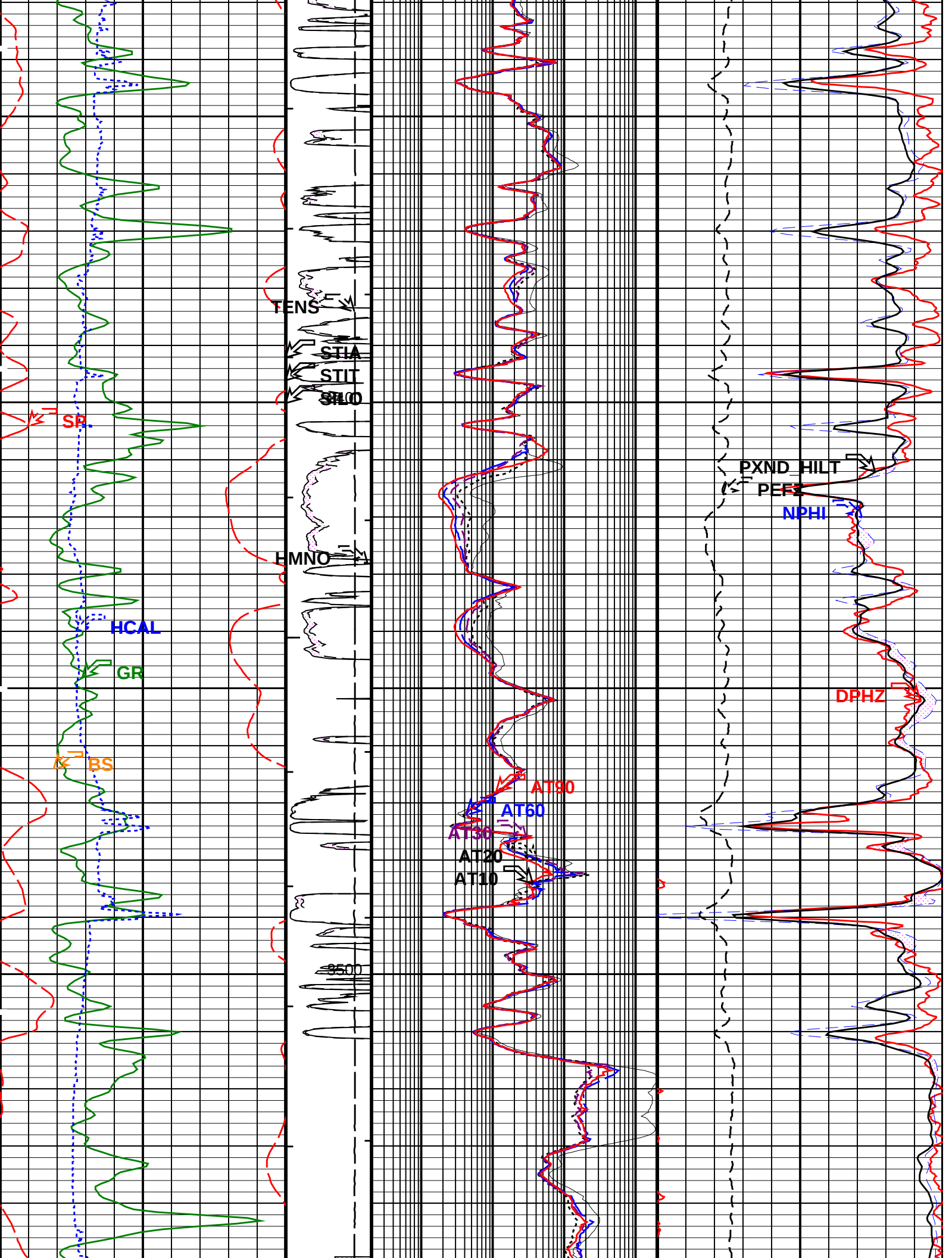
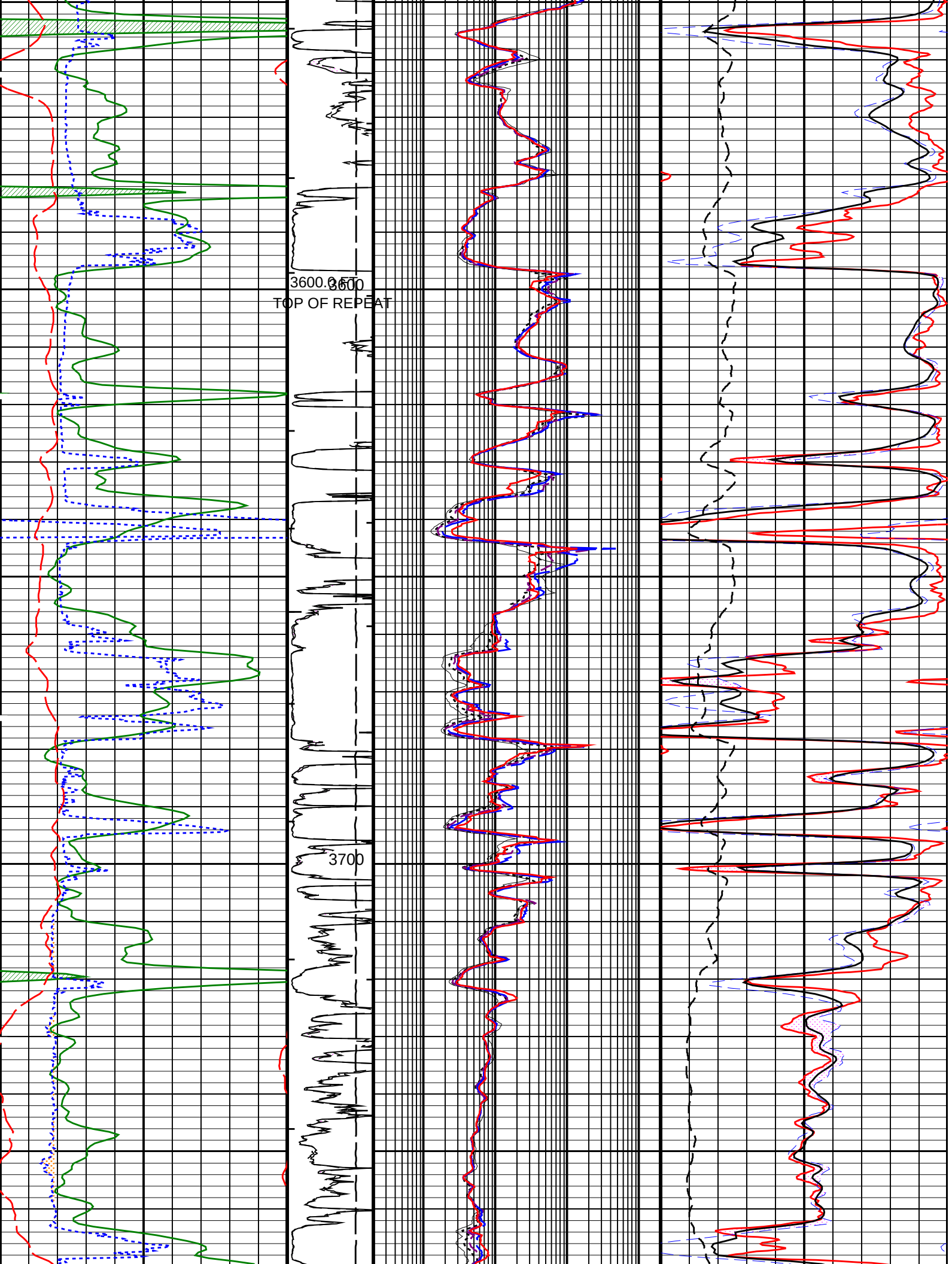
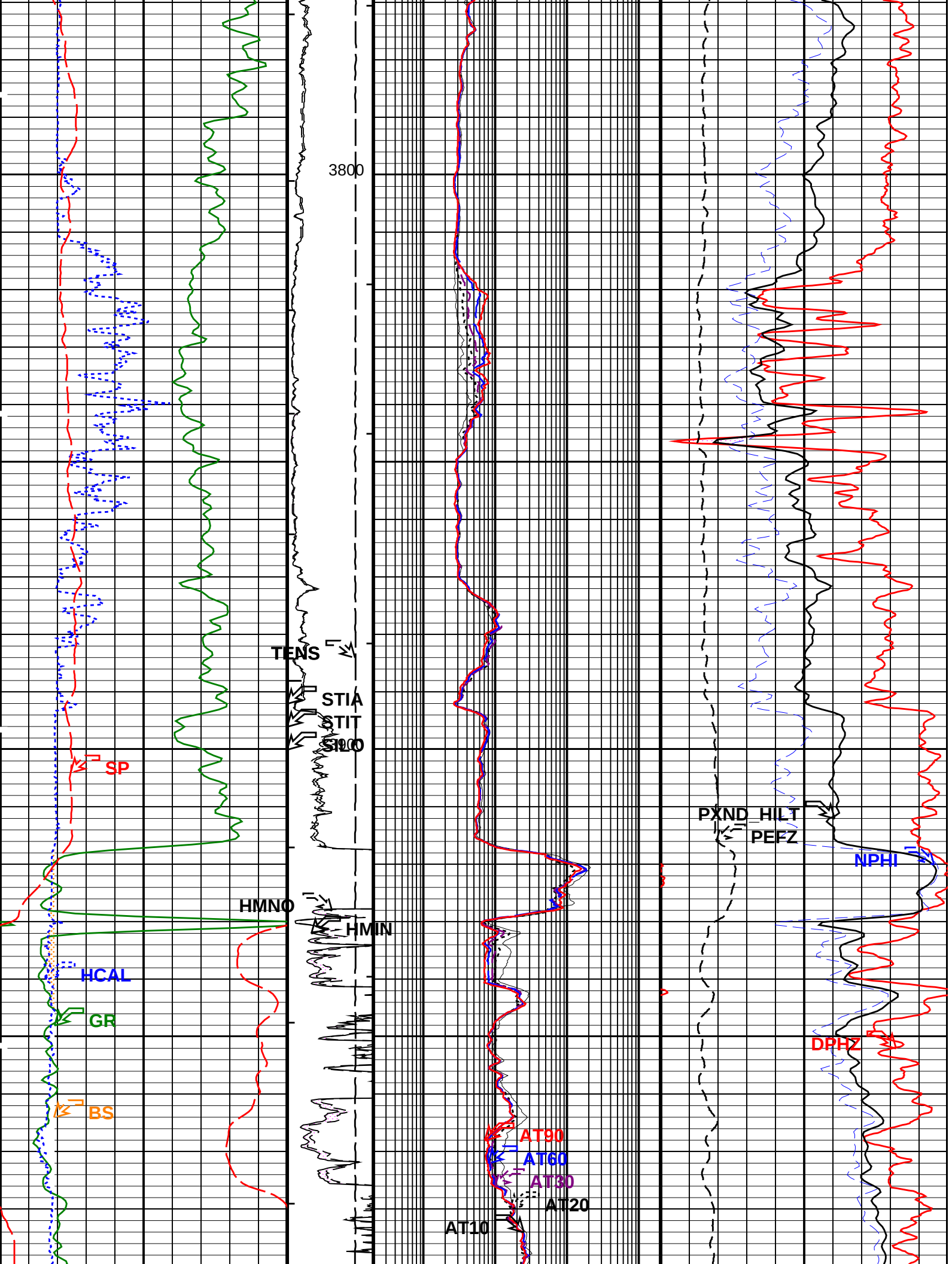
AT60
AT30
AT20
AT10
PXND
HILT
PEFZ
NPHI
DPHZ
3000
3100


3200
3300


TENS
STIA
STIT
SHO
SP
HMNO
HCAL
GR
BS
AT90
AT60
AT30
AT20
AT10
9500
PXND_HILT
PEFZ
NPHI
DPHZ


3600.0 FT
3600
TOP OF REPEAT
3700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TENS
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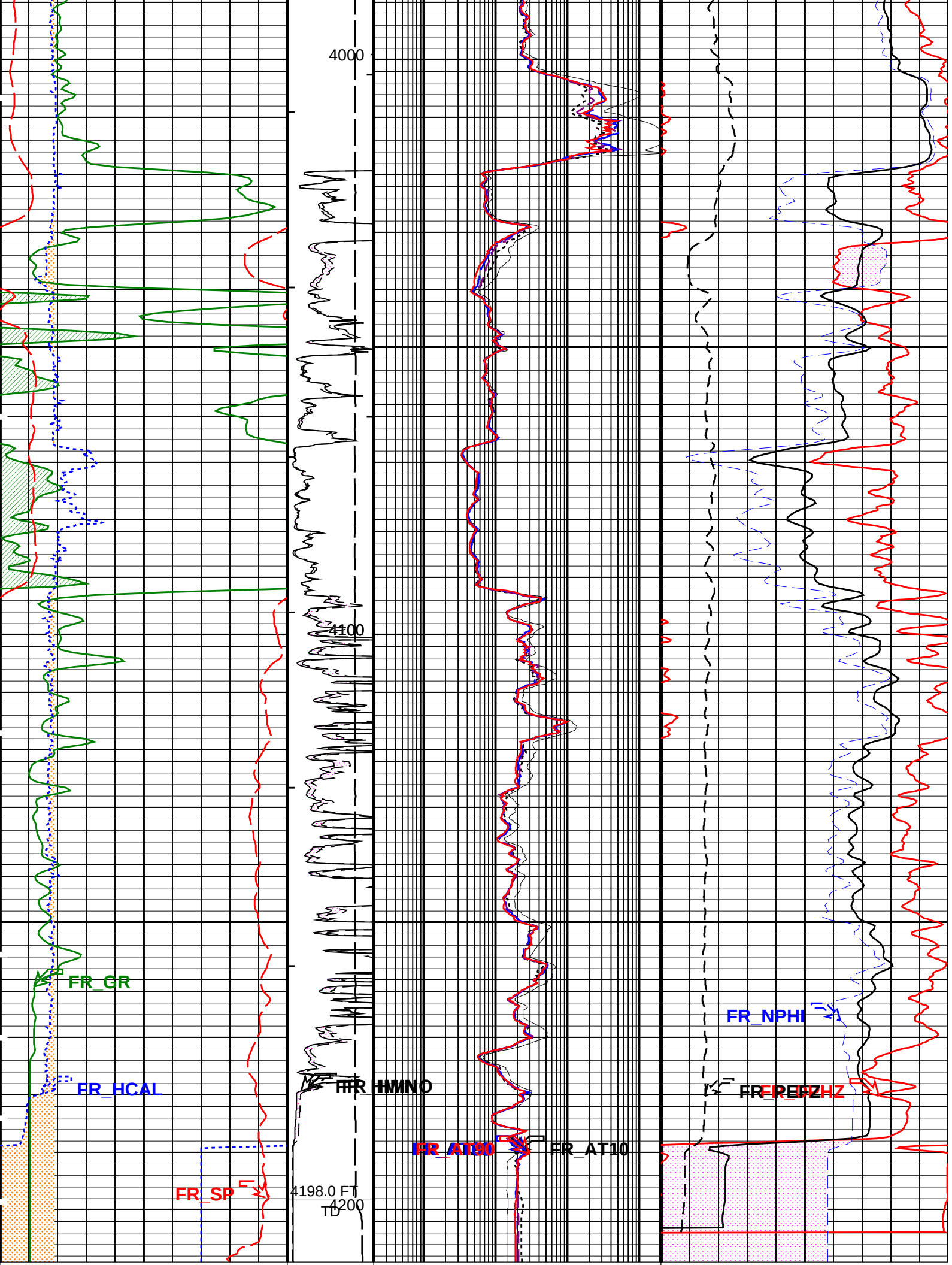
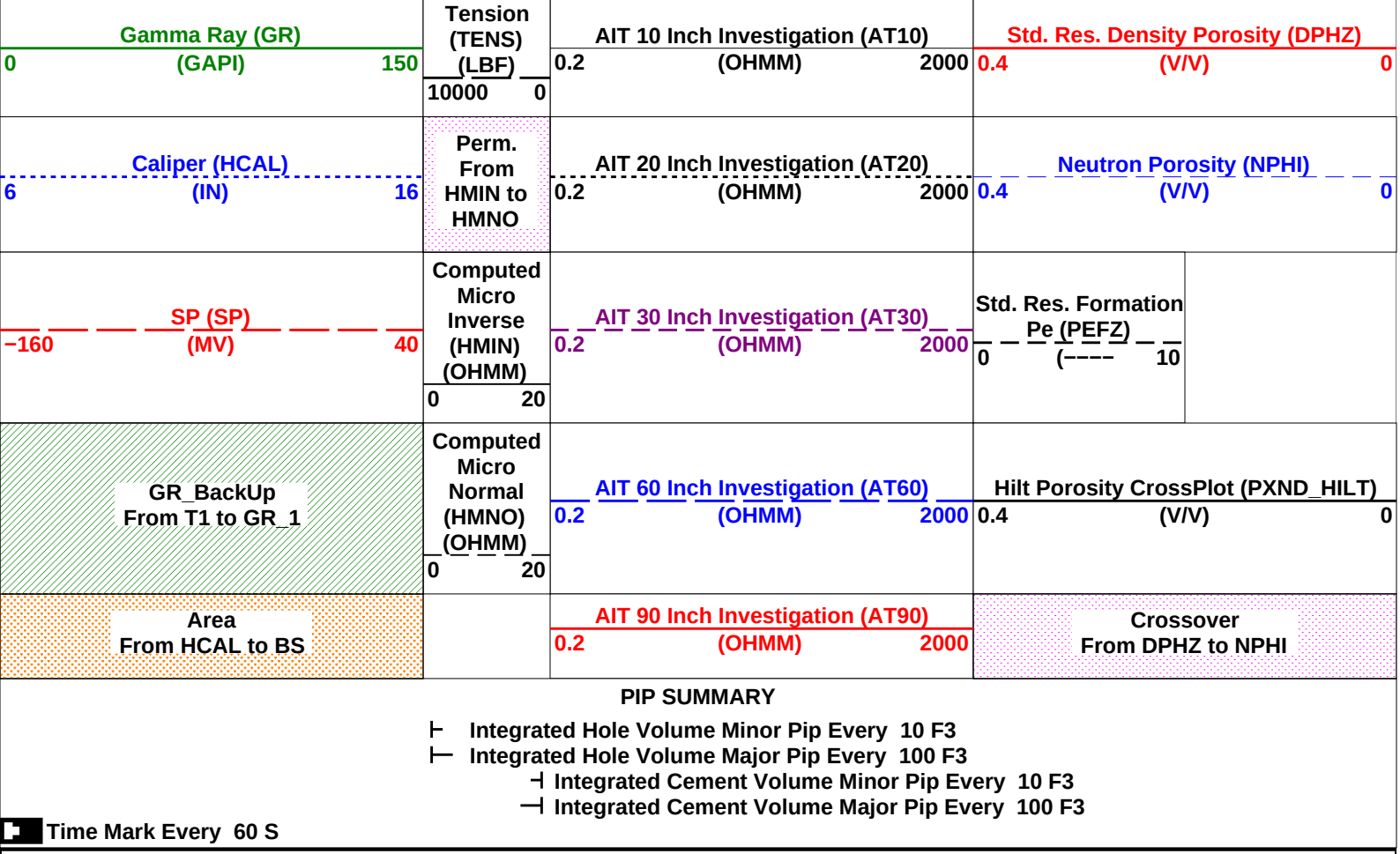
DPHZ


4000
4100
4200
FR_GR
FR_HCAL
FR_SP
FR_RMNO
FR_AT90
FR_AT10
FR_NPHI
FR_RPEZ
4198.0 FT
TD



Parameters

DLIS Name	Description	Value	
	AIT−M: Array Induction Tool − M		
ABHM	Array Induction Borehole Correction Mode	2_ComputeStandoff	
ABHV	Array Induction Borehole Correction Code Version Number	900	
ABLM	Array Induction Basic Logs Mode	6_One_Two_and_Four	
ABLV	Array Induction Basic Logs Code Version Number	223	
ACDE	Array Induction Casing Detection Enable	Yes	
ACEN	Array Induction Tool Centering Flag (in Borehole)	Eccentered	
ACSED	Array Induction Casing Shoe Estimated Depth	−50000	FT
AETP	Array Induction Enable Sonde Error Temp&Pres Corr	Yes	
AFRSV	Array Induction Response Set Version for Four ft Resolution	41.70.24.20	
AIGS	Array Induction Select Akima Interpolation Gating	On	
AMRF	Array Induction Mud Resistivity Factor	1	
AORSV	Array Induction Response Set Version for One ft Resolution	41.70.24.20	
ARFV	Array Induction Radial Profiling Code Version Number	701	
ARPV	Array Induction Radial Parametrization Code Version Number	232	
ASTA	Array Induction Tool Standoff	0.6	IN
ATRSV	Array Induction Response Set Version for Two ft Resolution	41.70.24.20	
ATSE	Array Induction Temperature Selection(Sonde Error Correction)	Internal	
AULV	Array Induction User Level Control	Normal	
AZRSV	Array Induction Response Set Version for Z Resolution	00.10.25.00	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	100	DEGF
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	2.57	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITM_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	35	DEGF
SPNV	SP Next Value	0	MV
	HILTH−FTB: High resolution Integrated Logging Tool−DTS		
BHFL_TLD	HILT Nuclear Mud Base	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	100	DEGF
DHC	Density Hole Correction	BS	
FD	Fluid Density	1	G/C3
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	

GCLF	Germany Coal−like Formation Option	NO	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	2.57	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITM_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MDEN	Matrix Density	2.71	G/C3
MPOF	MCFL Processing Operation Mode	ON	
NAAC	HRDD APS Activation Correction	OFF	
NMT	HILT Nuclear Mud Type	NOBARITE	
NPRM	HRDD Processing Mode	HiRes	
NSAR	HRDD Depth Sampling Rate	1	IN
SHT	Surface Hole Temperature	35	DEGF
RWA: Apparent Water Resistivity			
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
FEQL: Formation Evaluation Quick Look			
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	100	DEGF
FCD	Future Casing (Outer) Diameter	5.5	IN
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	2.57	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITM_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HVCS	Integrated Hole Volume Caliper Selection	AUTOMATIC	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	35	DEGF
PERT: Preliminary Evaluation − Real Time			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	100	DEGF
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	2.57	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITM_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	35	DEGF
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	2.5	FT
TDD	Total Depth − Driller	4201.00	FT
TDL	Total Depth − Logger	4198.00	FT
System and Miscellaneous			
BS	Bit Size	7.875	IN
BSAL	Borehole Salinity	25000.00	PPM
DFD	Drilling Fluid Density	9.10	LB/G
DORL	Depth Offset for Repeat Analysis	0.0	FT
FLEV	Fluid Level	−50000.00	FT
MST	Mud Sample Temperature	30.00	DEGF
TD	Total Depth	4198	FT

Format: COMBINED Vertical Scale: 5" per 100’ Graphics File Created: 10−Mar−2010 11:31

OP System Version: 17C0−154

AIT−M	17C0−154	HILTH−FTB	17C0−154
DTC−H	17C0−154		

Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_013LUP	FN:24	PRODUCER	10−Mar−2010 11:31
RTB	AIT_TLD_MCFL_CNL_013LUP	FN:25	PRODUCER	10−Mar−2010 11:32
CUSTOMER	AIT_TLD_MCFL_CNL_013LUC	FN:26	CUSTOMER	10−Mar−2010 11:31

Schlumberger

Repeat Section 5" = 100’

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_011LUP	FN:18	PRODUCER	10−Mar−2010 10:59	4212.0 FT	3444.5 FT

Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_012PUP	FN:21	PRODUCER	10−Mar−2010 11:29	4213.5 FT	3405.5 FT
RTB	AIT_TLD_MCFL_CNL_012PUP	FN:22	PRODUCER	10−Mar−2010 11:29	4213.5 FT	3405.5 FT
CUSTOMER	AIT_TLD_MCFL_CNL_012PUC	FN:23	CUSTOMER	10−Mar−2010 11:29	4213.5 FT	3405.5 FT

Integrated Hole/Cement Volume Summary

Hole Volume = 287.82 F3

Cement Volume = 163.68 F3 (assuming 5.50 IN casing O.D.)

Computed from 4198.0 FT to 3446.0 FT using data channel(s) HCAL

OP System Version: 17C0−154

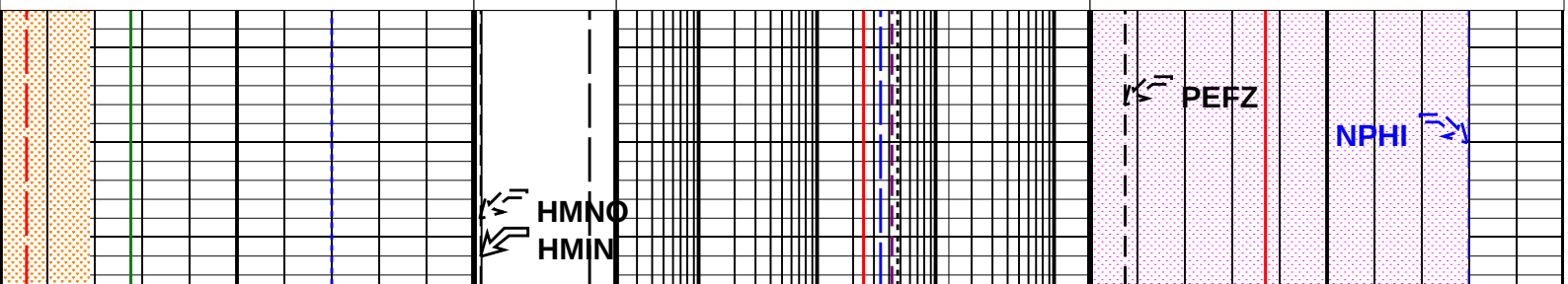
AIT−M	17C0−154	HILTH−FTB	17C0−154
DTC−H	17C0−154		

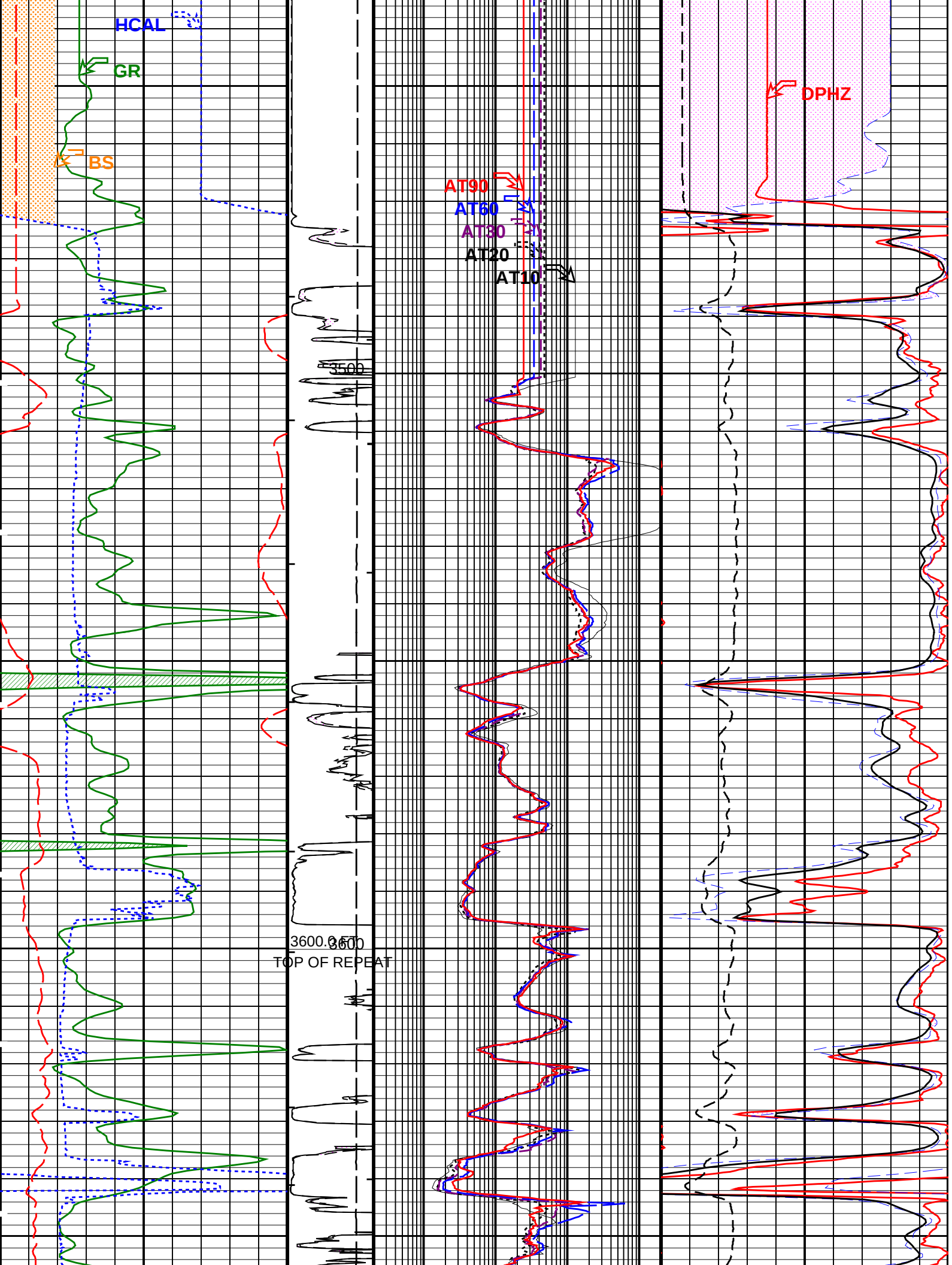
PIP SUMMARY

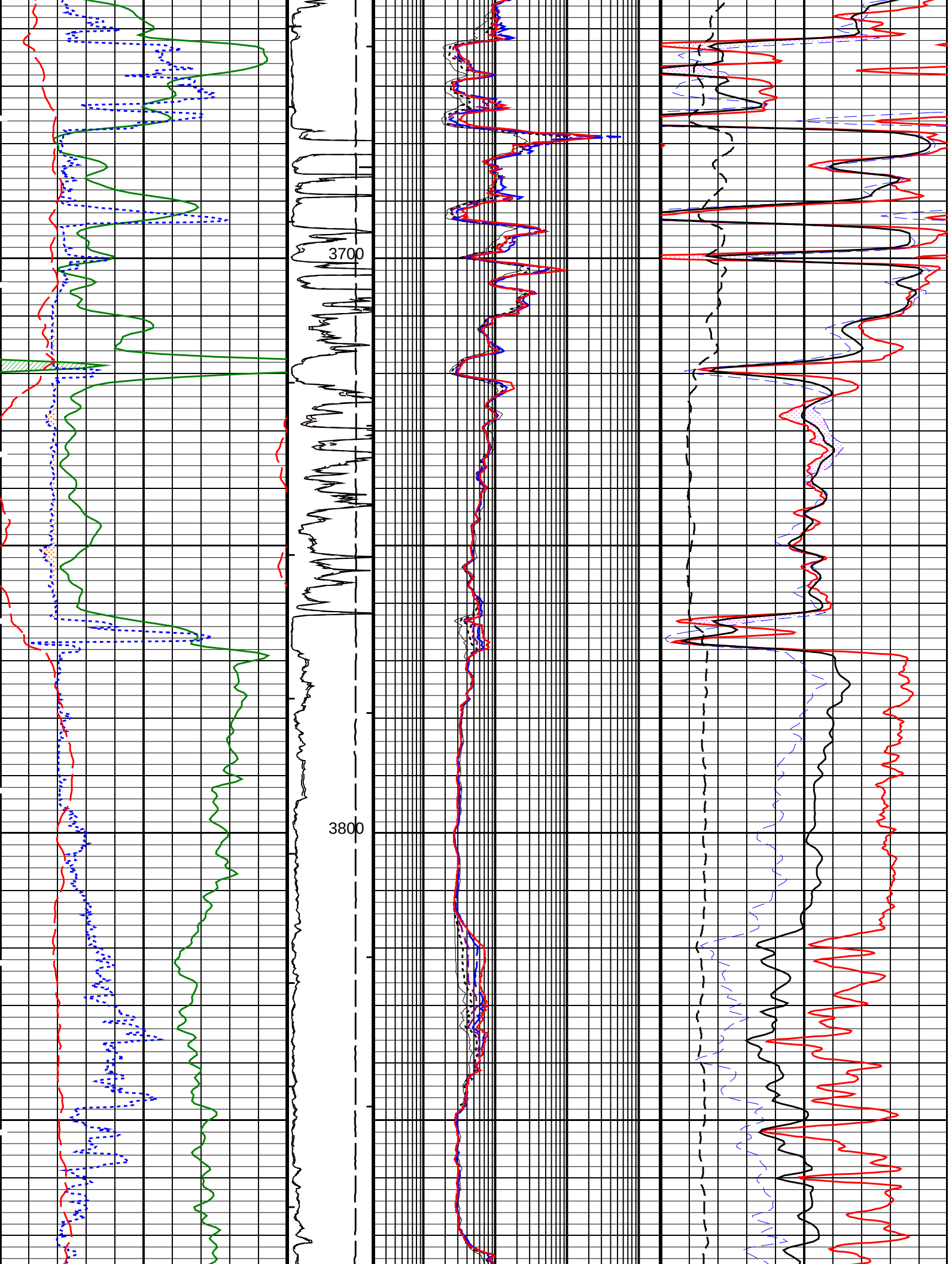
- Integrated Hole Volume Minor Pip Every 10 F3
- Integrated Hole Volume Major Pip Every 100 F3
- Integrated Cement Volume Minor Pip Every 10 F3
- Integrated Cement Volume Major Pip Every 100 F3

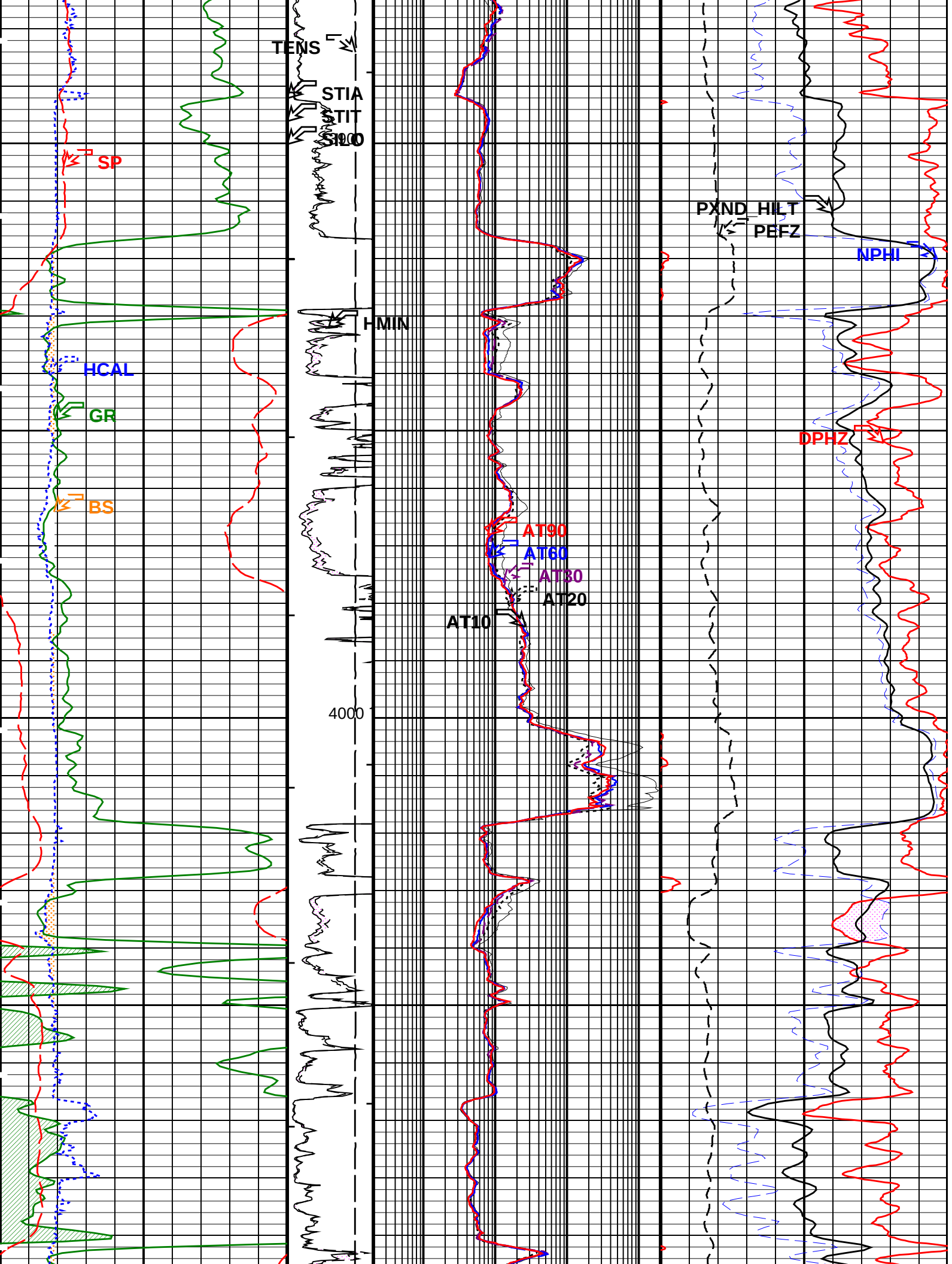
Time Mark Every 60 S

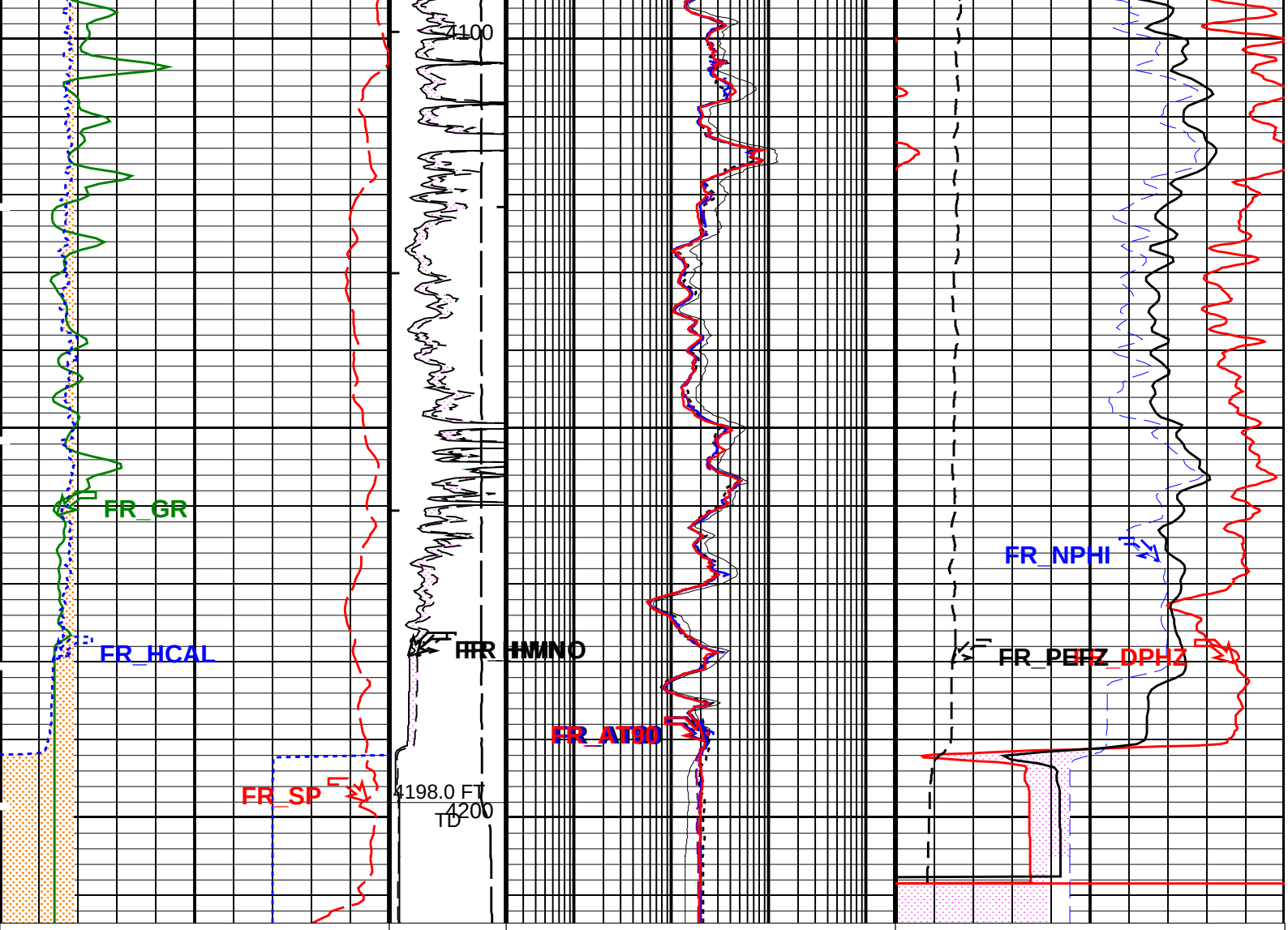
Area From HCAL to BS		AIT 90 Inch Investigation (AT90) 0.2 (OHMM) 2000	Crossover From DPHZ to NPHI
GR_BackUp From T1 to GR_1	Computed Micro Normal (HMNO) (OHMM) 0 20	AIT 60 Inch Investigation (AT60) 0.2 (OHMM) 2000	Hilt Porosity CrossPlot (PXND_HILT) 0.4 (V/V) 0
SP (SP) −160 (MV) 40	Computed Micro Inverse (HMIN) (OHMM) 0 20	AIT 30 Inch Investigation (AT30) 0.2 (OHMM) 2000	Std. Res. Formation Pe (PEFZ) 0 (---- 10
Caliper (HCAL) 6 (IN) 16	Perm. From HMIN to HMNO	AIT 20 Inch Investigation (AT20) 0.2 (OHMM) 2000	Neutron Porosity (NPHI) 0.4 (V/V) 0
Gamma Ray (GR) 0 (GAPI) 150	Tension (TENS) (LBF) 10000 0	AIT 10 Inch Investigation (AT10) 0.2 (OHMM) 2000	Std. Res. Density Porosity (DPHZ) 0.4 (V/V) 0




HCAL
GR
BS
AT90
AT60
AT30
AT20
AT10
DPHZ
3500
3600.0 FT
3600
TOP OF REPEAT


3700
3800


TENS
STIA
STIT
SP
PXND_HILT
PEFZ
NPHI
HMIN
HCAL
GR
DPHZ
BS
AT90
AT60
AT30
AT20
AT10
4000



Gamma Ray (GR) 0 (GAPI) 150	Tension (TENS) (LBF) 10000 0	AIT 10 Inch Investigation (AT10) 0.2 (OHMM) 2000	Std. Res. Density Porosity (DPHZ) 0.4 (V/V) 0
Caliper (HCAL) 6 (IN) 16	Perm. From HMIN to HMNO	AIT 20 Inch Investigation (AT20) 0.2 (OHMM) 2000	Neutron Porosity (NPHI) 0.4 (V/V) 0
SP (SP) −160 (MV) 40	Computed Micro Inverse (HMIN) (OHMM) 0 20	AIT 30 Inch Investigation (AT30) 0.2 (OHMM) 2000	Std. Res. Formation Pe (PEFZ) 0 (---- 10
GR_BackUp From T1 to GR_1	Computed Micro Normal (HMNO) (OHMM) 0 20	AIT 60 Inch Investigation (AT60) 0.2 (OHMM) 2000	Hilt Porosity CrossPlot (PXND_HILT) 0.4 (V/V) 0
Area From HCAL to BS		AIT 90 Inch Investigation (AT90) 0.2 (OHMM) 2000	Crossover From DPHZ to NPHI

PIP SUMMARY

- Integrated Hole Volume Minor Pip Every 10 F3
- Integrated Hole Volume Major Pip Every 100 F3
- Integrated Cement Volume Minor Pip Every 10 F3
- Integrated Cement Volume Major Pip Every 100 F3

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	AIT−M: Array Induction Tool − M		
ABHM	Array Induction Borehole Correction Mode	2_ComputeStandoff	
ABHV	Array Induction Borehole Correction Code Version Number	900	
ABLM	Array Induction Basic Logs Mode	6_One_Two_and_Four	
ABLV	Array Induction Basic Logs Code Version Number	223	
ACDE	Array Induction Casing Detection Enable	Yes	
ACEN	Array Induction Tool Centering Flag (in Borehole)	Eccentered	
ACSED	Array Induction Casing Shoe Estimated Depth	−50000	FT
AETP	Array Induction Enable Sonde Error Temp&Pres Corr	Yes	
AFRSV	Array Induction Response Set Version for Four ft Resolution	41.70.24.20	
AIGS	Array Induction Select Akima Interpolation Gating	On	
AMRF	Array Induction Mud Resistivity Factor	1	
AORSV	Array Induction Response Set Version for One ft Resolution	41.70.24.20	
ARFV	Array Induction Radial Profiling Code Version Number	701	
ARPV	Array Induction Radial Parametrization Code Version Number	232	
ASTA	Array Induction Tool Standoff	0.6	IN
ATRSV	Array Induction Response Set Version for Two ft Resolution	41.70.24.20	
ATSE	Array Induction Temperature Selection(Sonde Error Correction)	Internal	
AULV	Array Induction User Level Control	Normal	
AZRSV	Array Induction Response Set Version for Z Resolution	00.10.25.00	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	100	DEGF
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	2.57	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITM_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	35	DEGF
SPNV	SP Next Value	0	MV
	HILTH−FTB: High resolution Integrated Logging Tool−DTS		
BHFL_TLD	HILT Nuclear Mud Base	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	100	DEGF
DHC	Density Hole Correction	BS	
FD	Fluid Density	1	G/C3
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
GCLF	Germany Coal−like Formation Option	NO	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	2.57	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITM_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MDEN	Matrix Density	2.71	G/C3
MPOF	MCFL Processing Operation Mode	ON	
NAAC	HRDD APS Activation Correction	OFF	
NMT	HILT Nuclear Mud Type	NOBARITE	
NPRM	HRDD Processing Mode	HiRes	
NSAR	HRDD Depth Sampling Rate	1	IN
SHT	Surface Hole Temperature	35	DEGF
	RWA: Apparent Water Resistivity		
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
	FEQL: Formation Evaluation Quick Look		
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
	HOLEV: Integrated Hole/Cement Volume		
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	100	DEGF
FCD	Future Casing (Outer) Diameter	5.5	IN
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	2.57	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITM_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HVCS	Integrated Hole Volume Caliper Selection	AUTOMATIC	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	35	DEGF
	PERT: Preliminary Evaluation − Real Time		
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	100	DEGF
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	2.57	DEG

GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITM_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	35	DEGF
	STI: Stuck Tool Indicator		
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	2.5	FT
TDD	Total Depth − Driller	4201.00	FT
TDL	Total Depth − Logger	4198.00	FT
	System and Miscellaneous		
BS	Bit Size	7.875	IN
BSAL	Borehole Salinity	25000.00	PPM
DFD	Drilling Fluid Density	9.10	LB/G
DO	Depth Offset for Playback	1.0	FT
FLEV	Fluid Level	−50000.00	FT
MST	Mud Sample Temperature	30.00	DEGF
PP	Playback Processing	NORMAL	
TD	Total Depth	4198	FT

Format: COMBINED **Vertical Scale: 5" per 100'** **Graphics File Created: 10−Mar−2010 11:29**

OP System Version: 17C0−154

AIT−M	17C0−154	HILTH−FTB	17C0−154
DTC−H	17C0−154		

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_011LUP	FN:18	PRODUCER	10−Mar−2010 10:59	4212.0 FT	3444.5 FT

Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_012PUP	FN:21	PRODUCER	10−Mar−2010 11:29
RTB	AIT_TLD_MCFL_CNL_012PUP	FN:22	PRODUCER	10−Mar−2010 11:29
CUSTOMER	AIT_TLD_MCFL_CNL_012PUC	FN:23	CUSTOMER	10−Mar−2010 11:29

Company: **NEW GULF OPERATING LLC**

Schlumberger

Well: **BEVERLY #1**
Field: **VINCENT**
County: **RENO**
State: **KANSAS**

TRIPLE COMBO LOG