

COMPANY: Lamont Doherty

WELL: ODP Leg 195, Site 1201D (WP-1B)

FIELD: ION

Country: Japan Ocean: West Phillipine

Schlumberger APS/Density Porosity

Country: Japan
 Field: ION
 Location: Rig- Joides Resolution
 Well: ODP Leg 195, Site 1201D (WP-1)
 Company: Lamont Doherty

LOCATION		Rig- Joides Resolution	
Permanent Datum:	MSL	Elev.:	K.B. 11,2989 m
Log Measured From:	DES		G.L. -5720 m
Drilling Measured From:	DES		D.F. 11 m
Elev.: 0 m		11.3 m above Perm. Datum	
API Serial No.	Max. Hole Devi. 0 deg	Longitude E 151.9836	Latitude S 20.2425

Logging Date	Run Number	Run 1	Run 2	Run
12-Apr-2001	1			
Depth Driller	6320 m			
Schlumberger Depth	6314 m			
Bottom Log Interval	6295 m			
Top Log Interval	5723 m			
Casing Driller Size @ Depth	0.000 in @ 5800 m			
Casing Schlumberger	5799.5 m			
Bit Size	9.875 in			
Type Fluid In Hole	Sepiolite/Salt water			
Density	1.05 g/cm3			
Fluid Loss	PH			
Source Of Sample	Mud Tank			
RM @ Measured Temperature	0.224 ohm.m @ 82 degC			
RMF @ Measured Temperature	@ @			
RMC @ Measured Temperature	@ @			
Source RMF	RMC			
RM @ MRT	0.612 @ 16 @ 16			
Maximum Recorded Temperatures	16 degC			
Circulation Stopped	12-Apr-2001 1:00			
Logger On Bottom	12-Apr-2001 See Log			
Unit Number	99 Houston			
Recorded By	Kerry M. Swain			
Witnessed By	Samantha Barr, Phillippe Galliot			

DISCLAIMER



THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

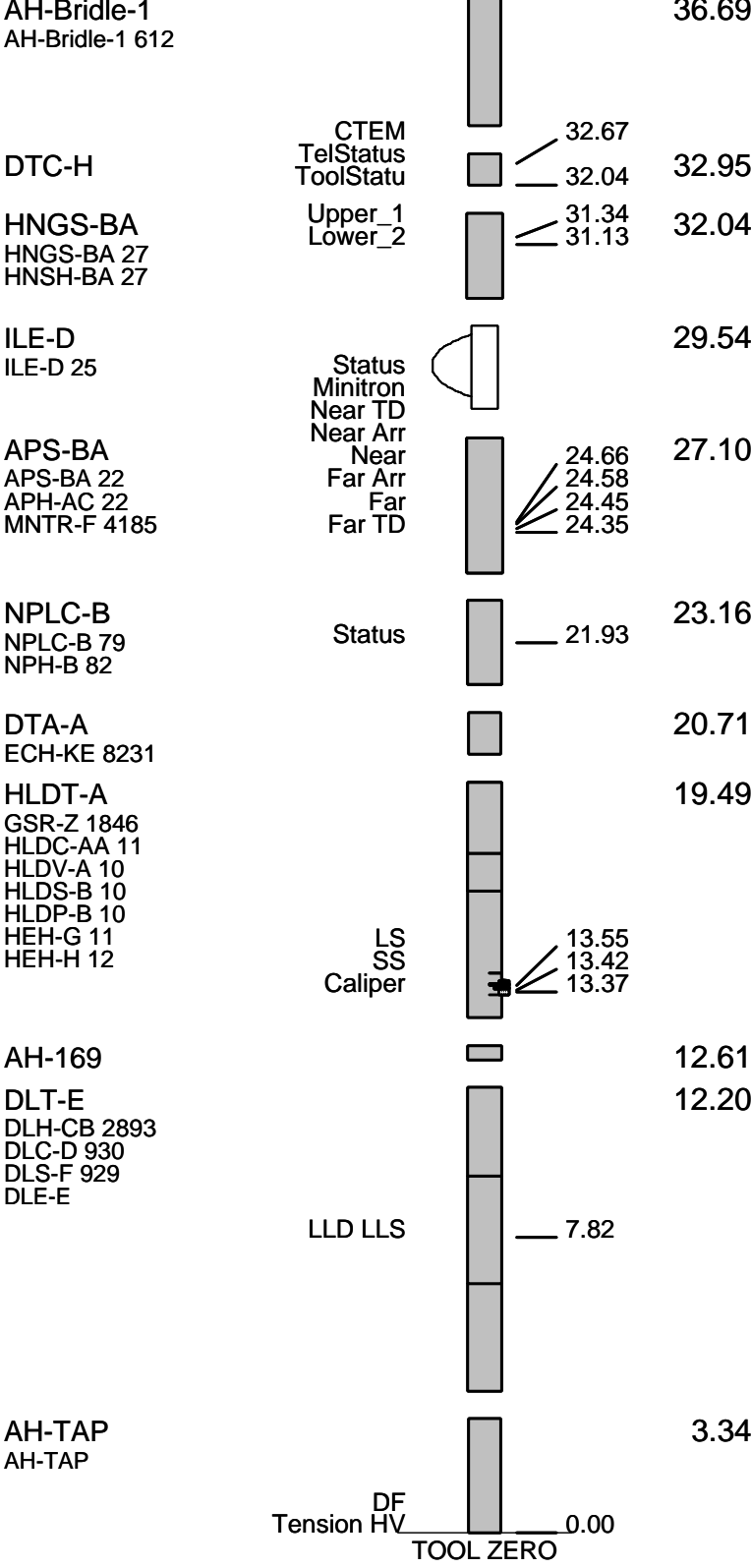
OTHER SERVICES1 OS1: MESTB/LSS OS2: DLT/HNGS OS3: OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
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REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Hole Cored With RCB.	
WHC used on all runs.	
Seas calm.	
Log Measured in Meters Below Rig Floor (MBRF).	
TD Driller- 6320 MBRF.	
Sea Floor Driller- 5720 MBRF.	
TD Logger- 6314 MBRF.	
Sea Floor Logger- 5723 MBRF.	
Drill Pipe Logger- 5799.5 MBRF.	
Drill Pipe Driller- 5800 MBRF.	
Splice at 6119.5 of original uplogs.	
Sepiolite mud used to displace hole after drilling.	
The density/PEF curves are unreliable between 6147-6167mbrf, unstable voltage.	
Original log files recorded with real time speed correction. Displayed data are corrected back to measured depth.	

RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION:	9C2-303		PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1		RUN 2	
SURFACE EQUIPMENT			
LCM-AA 728	WITM (DTS)-A		
SFT-281 24			
SFT-178 4722			
GSR-U 135			
DOWNHOLE EQUIPMENT			
LEH-QT		41.31	
AH-Bridle-2		40.42	
AH-Bridle-2 148			



MAXIMUM STRING DIAMETER 3.88 IN
 MEASUREMENTS RELATIVE TO TOOL ZERO
 ALL LENGTHS IN METERS

Input DLIS Files

DEFAULT	SPLICE_DLL_LDL_APS_096	FN:1	PRODUCER	14-Apr-2001 10:44	6317.7 M	5703.9 M
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Output DLIS Files

DEFAULT	DLL_LDL_APS_HNGS_097PUP	FN:81	PRODUCER	14-Apr-2001 10:46	6317.7 M	5712.9 M
REDUCE	DLL_LDL_APS_HNGS_097PUP	FN:82	PRODUCER	14-Apr-2001 10:46	6317.7 M	5712.9 M

OP System Version: 9C2-303

MCM

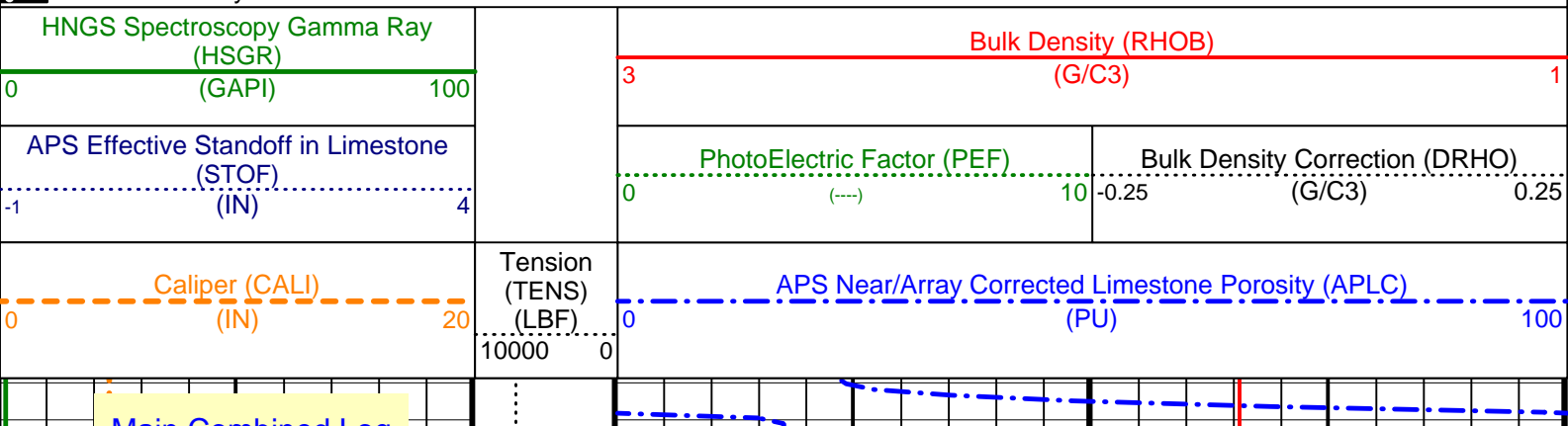
DLT-E	9C2-303	HLDT-A	9C2-303
DTA-A	9C2-303	NPLC-B	9C2-303
APS-BA	9C2-303	HNGS-BA	9C2-303
DTC-H	9C2-303		

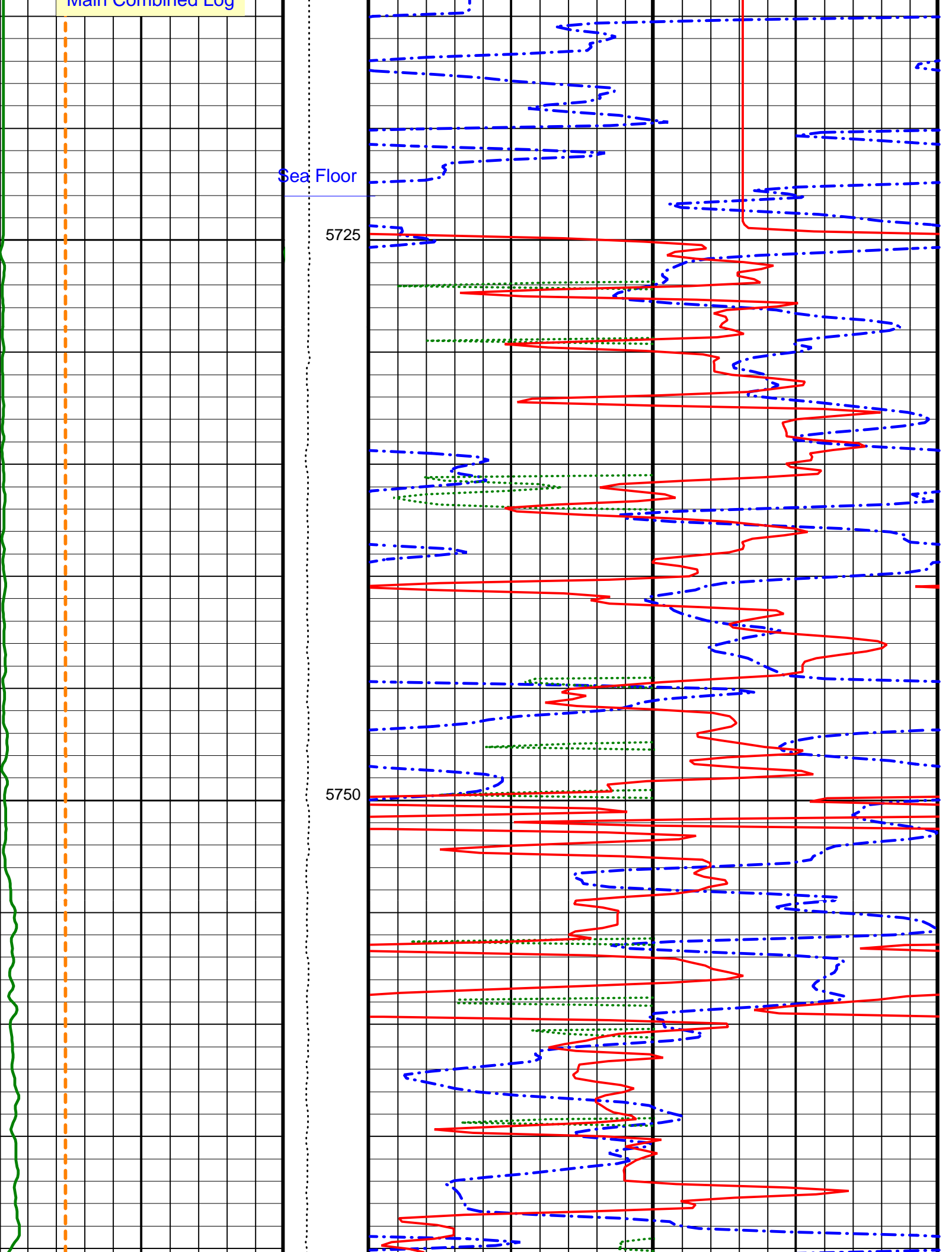
Changed Parameter Summary

DLIS Name	New Value	Previous Value	Depth & Time
BHS	CASED	OPEN	5804.3 10:53:48
GCSE	BS	CALI	5804.3 10:53:44

PIP SUMMARY

Time Mark Every 60 S

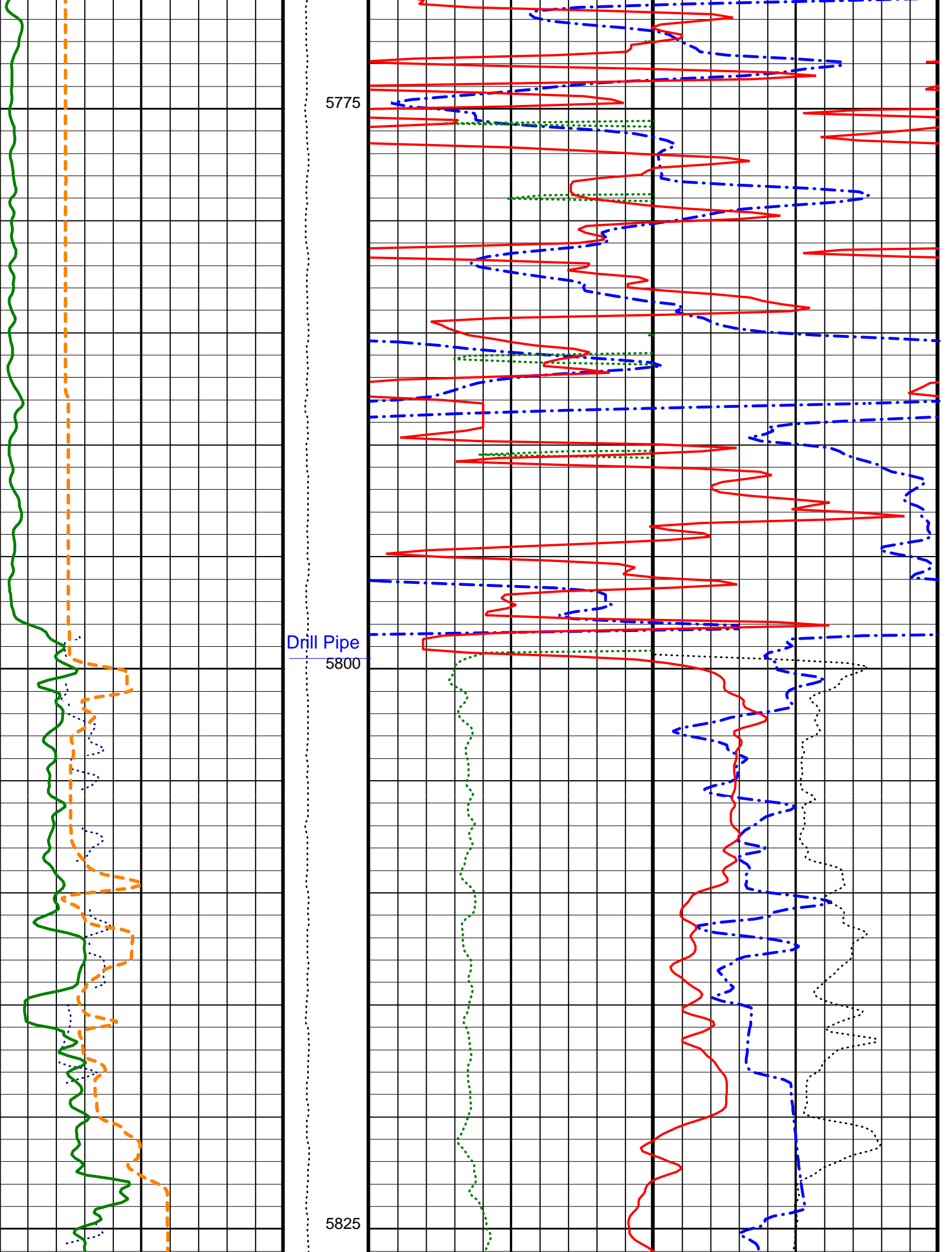


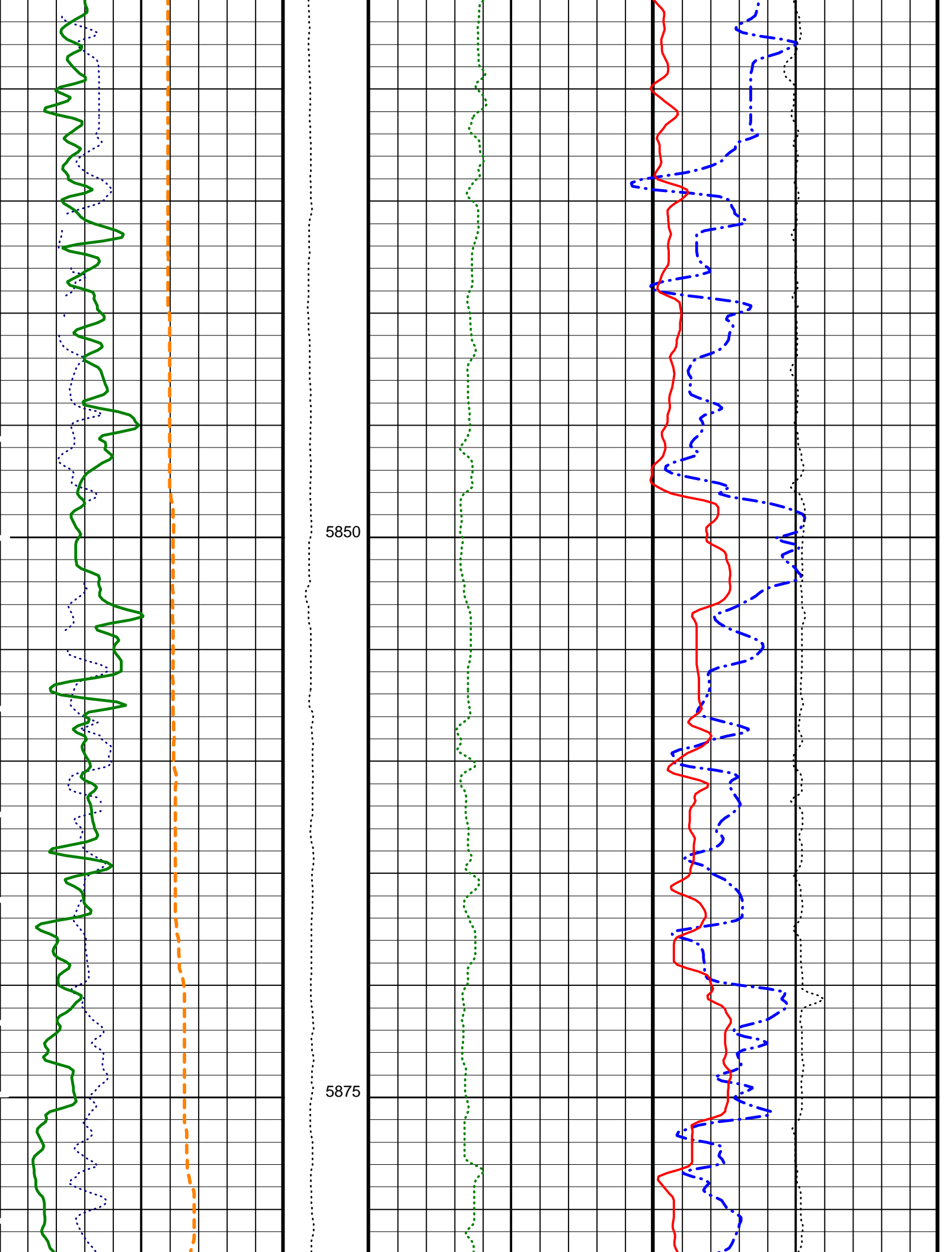


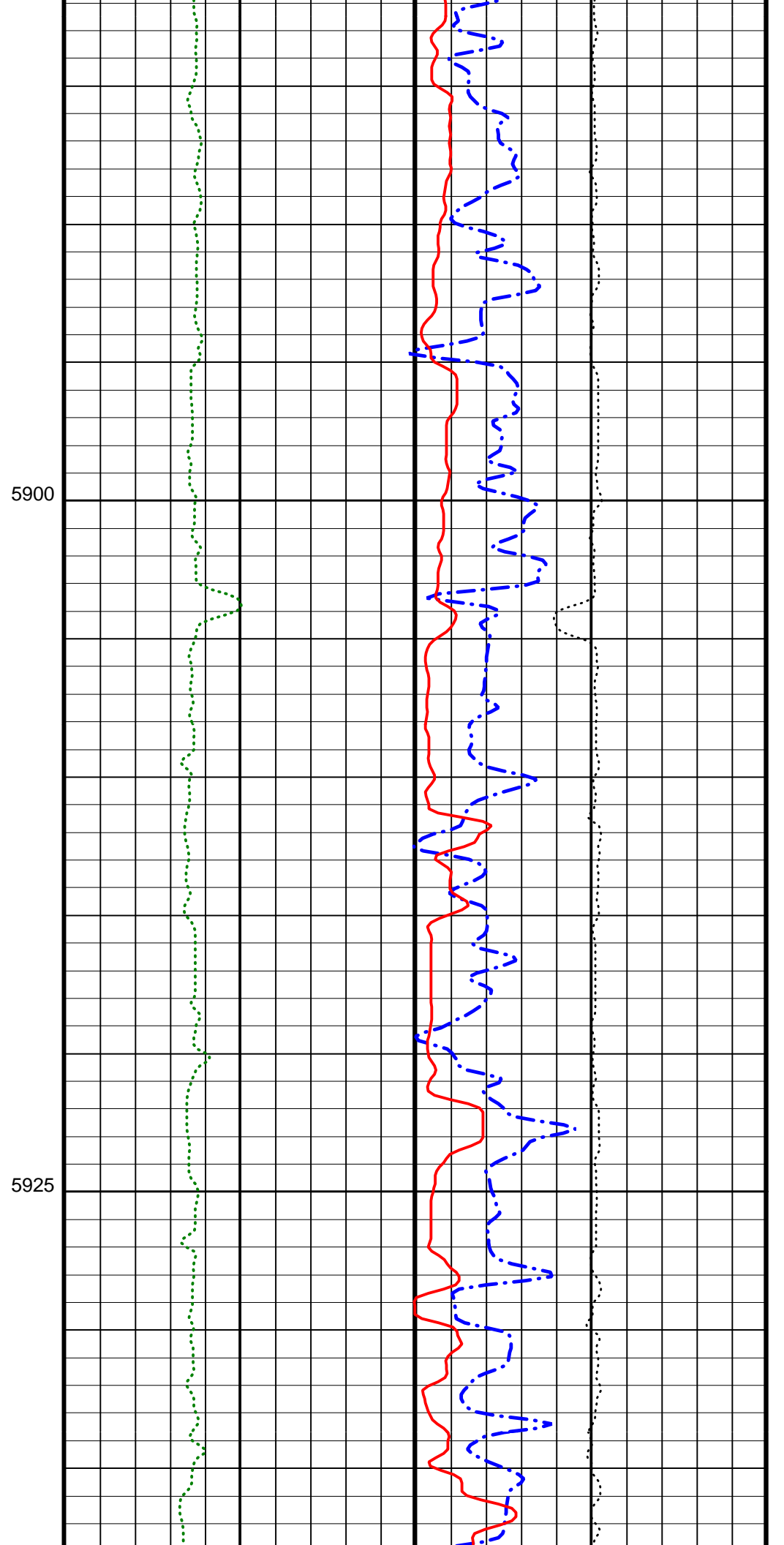
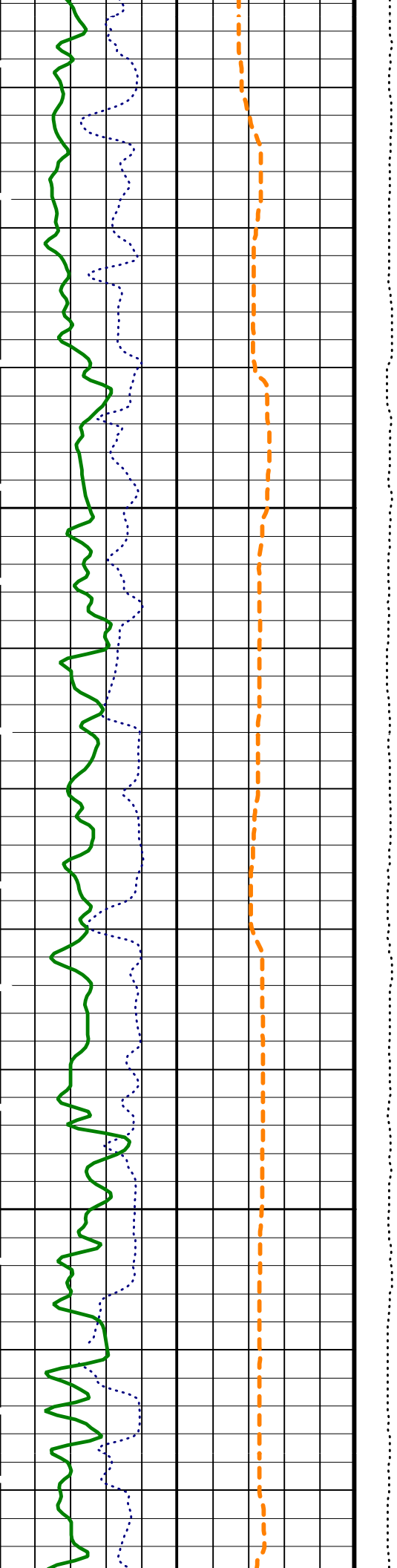
Sea Floor

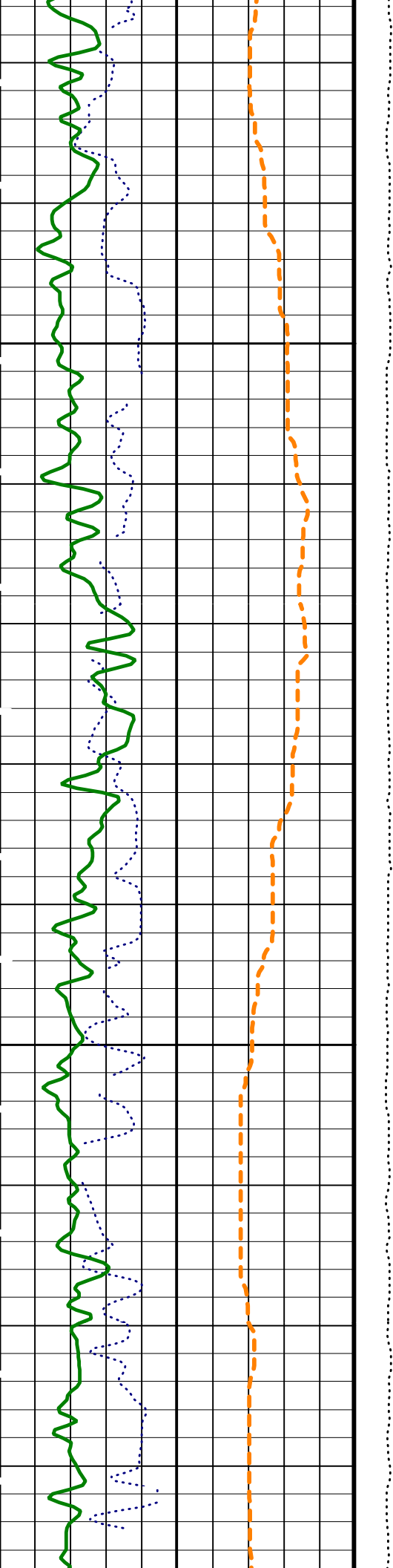
5725

5750



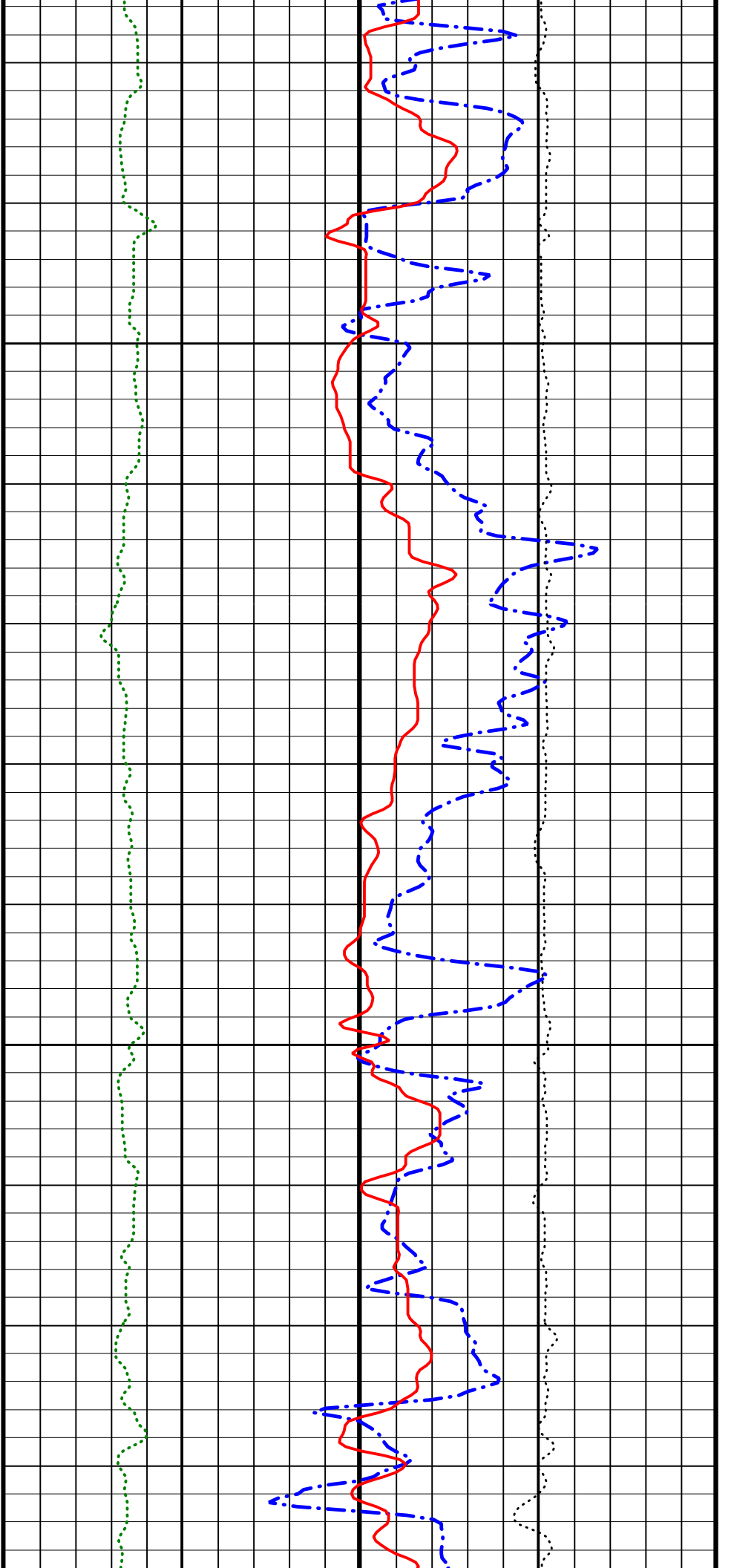


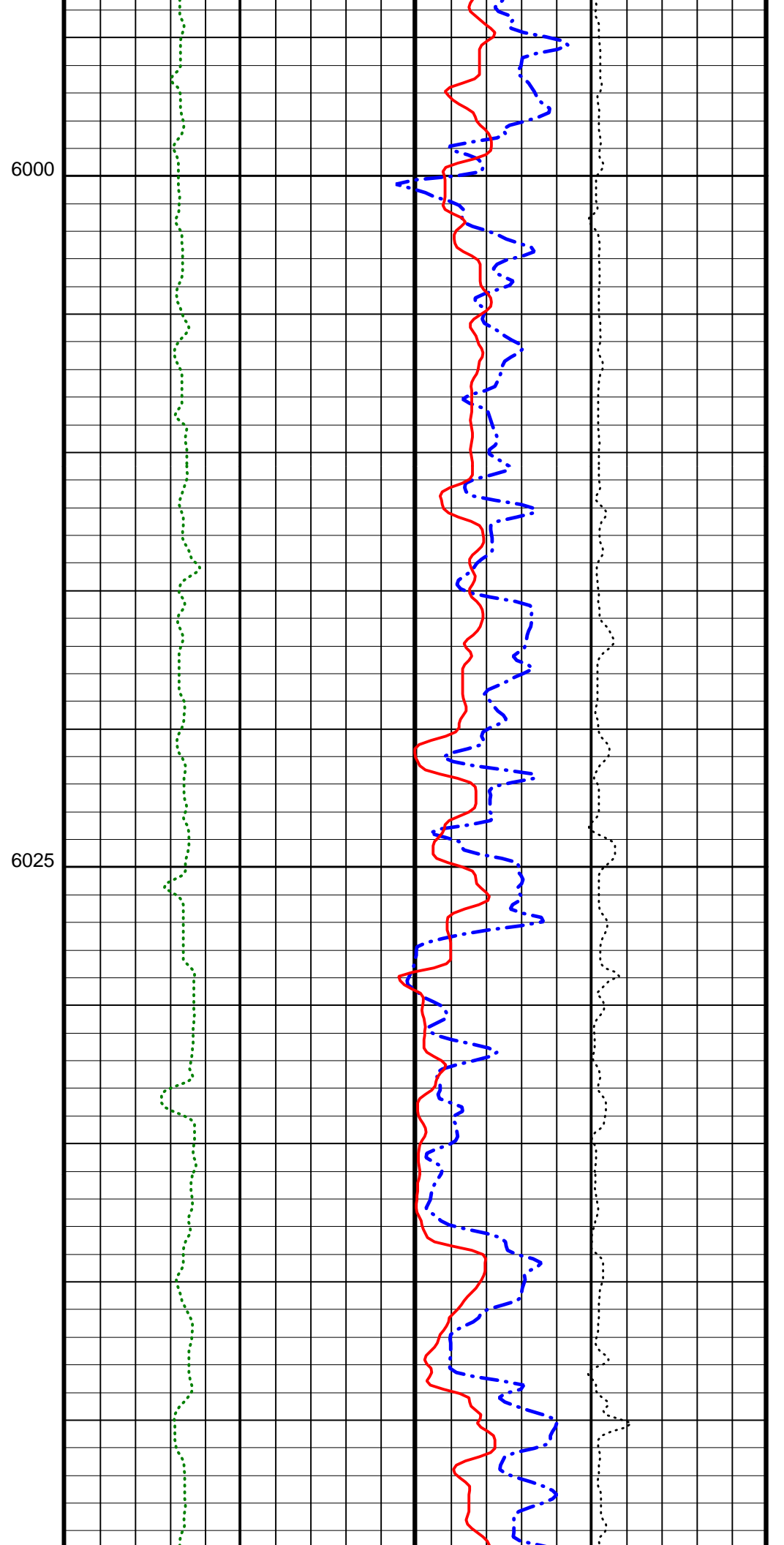
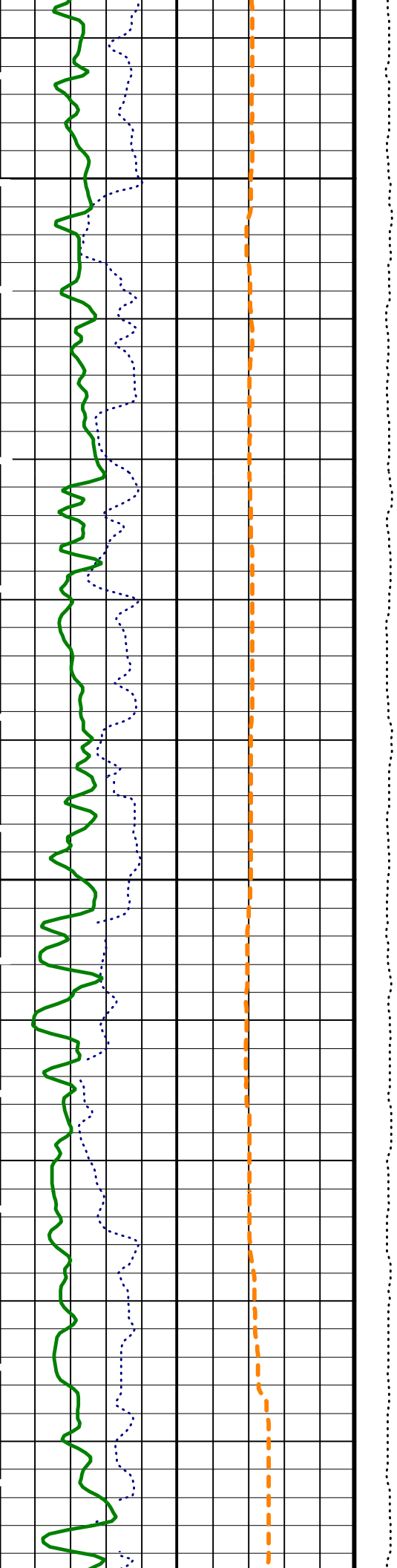


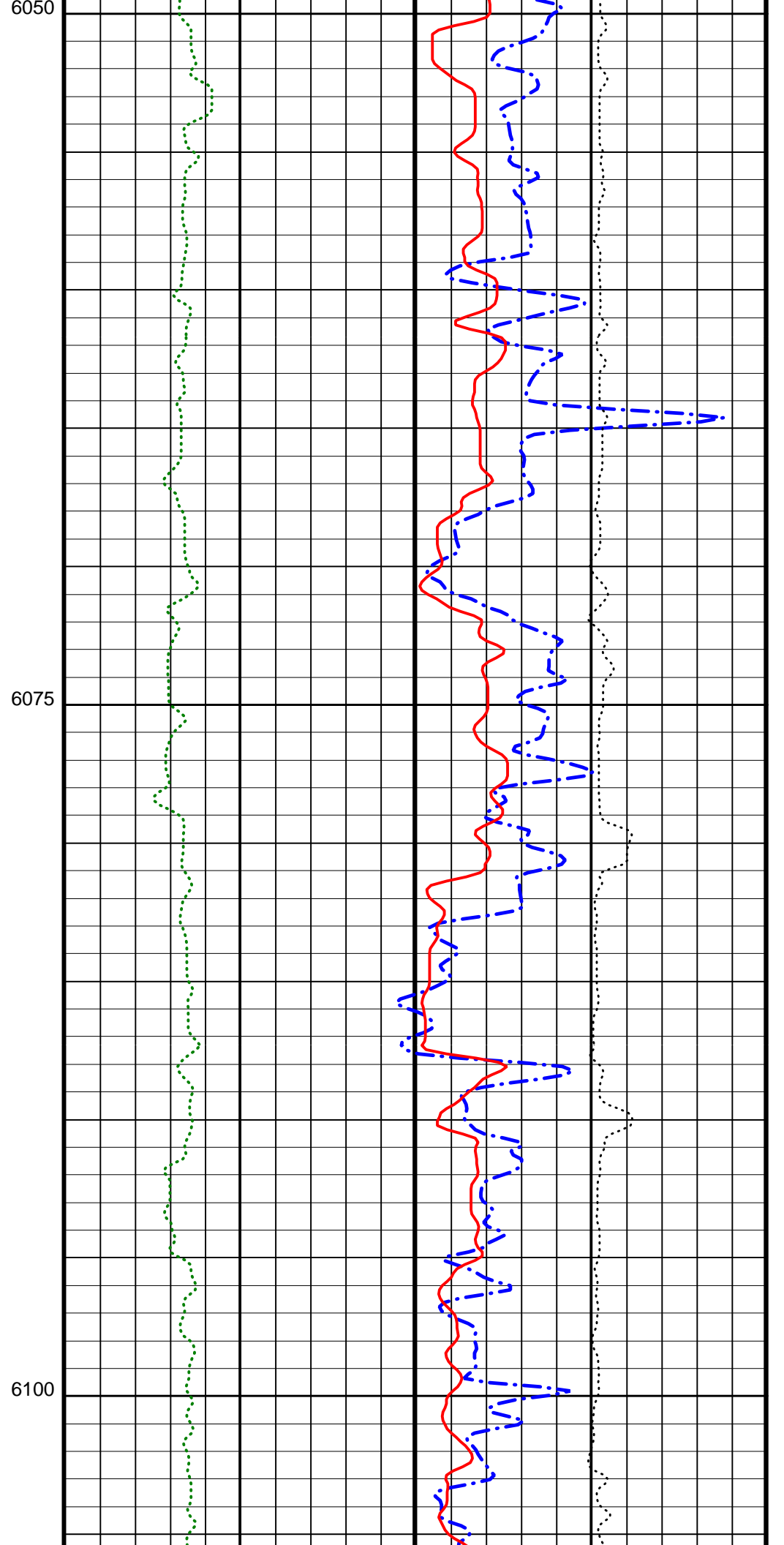
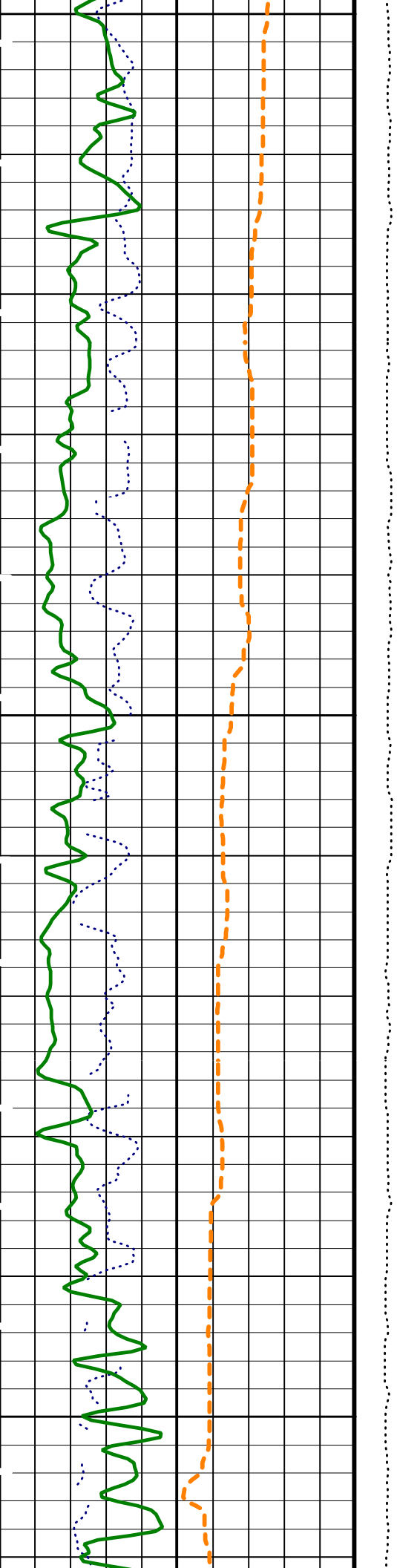


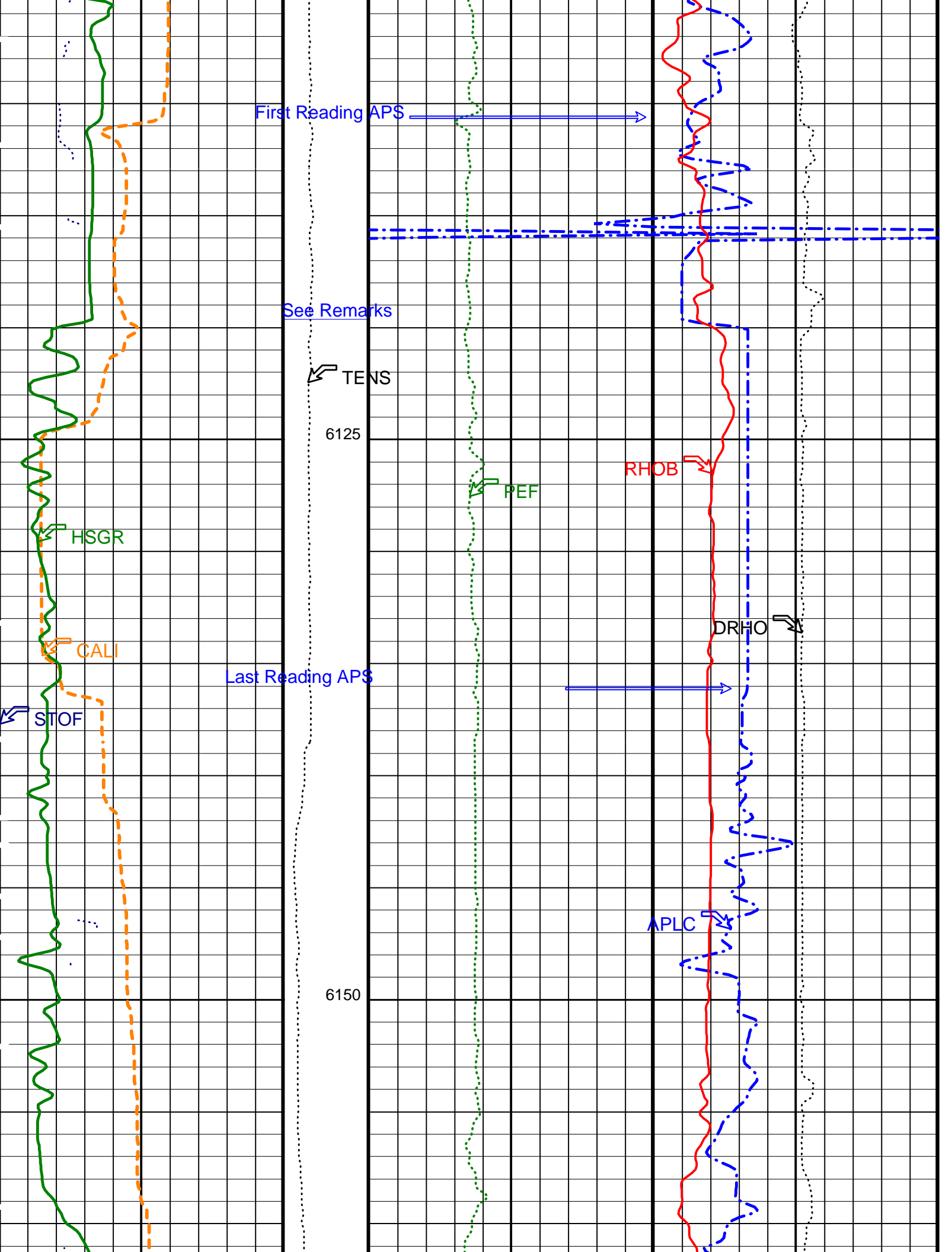
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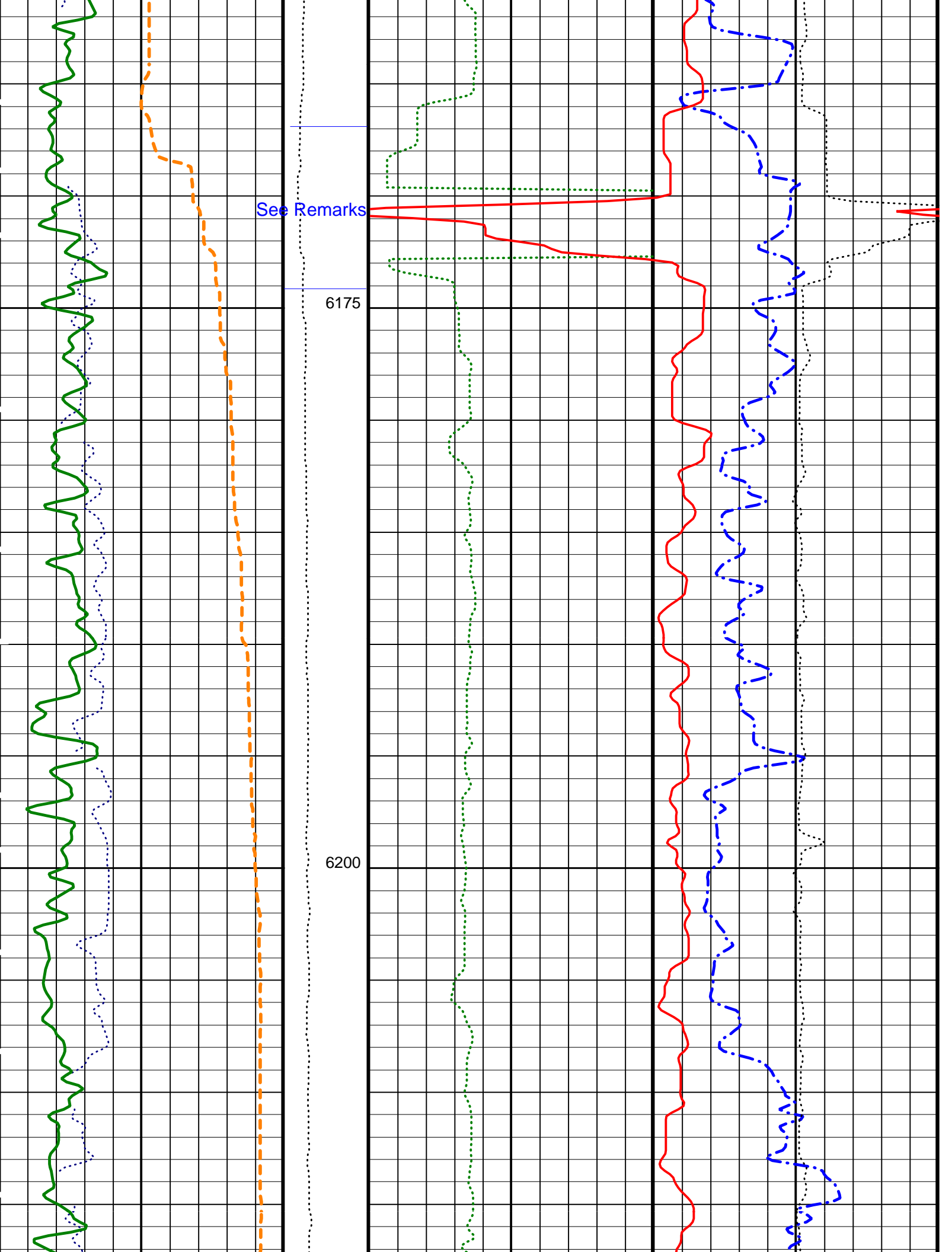
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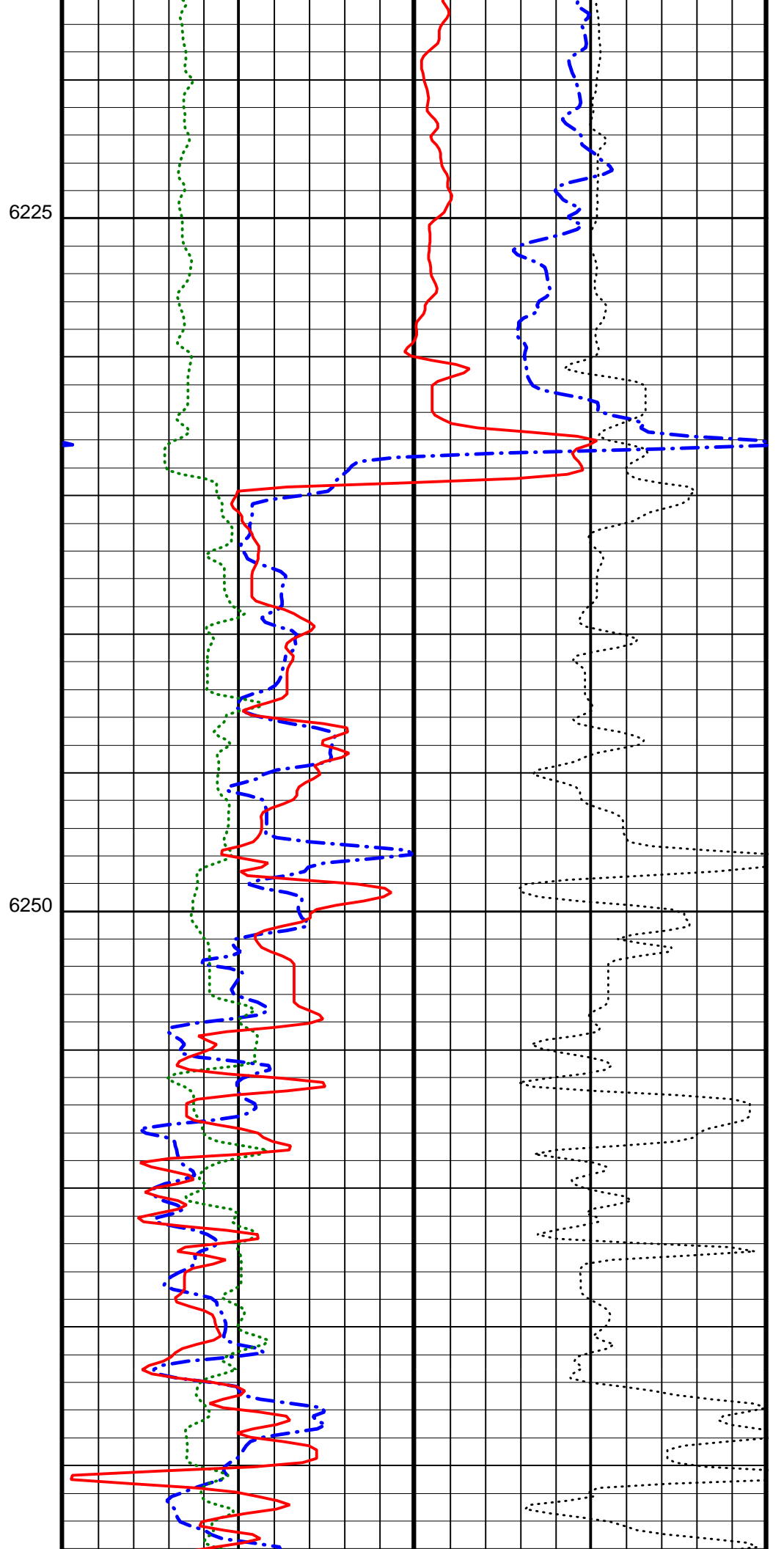
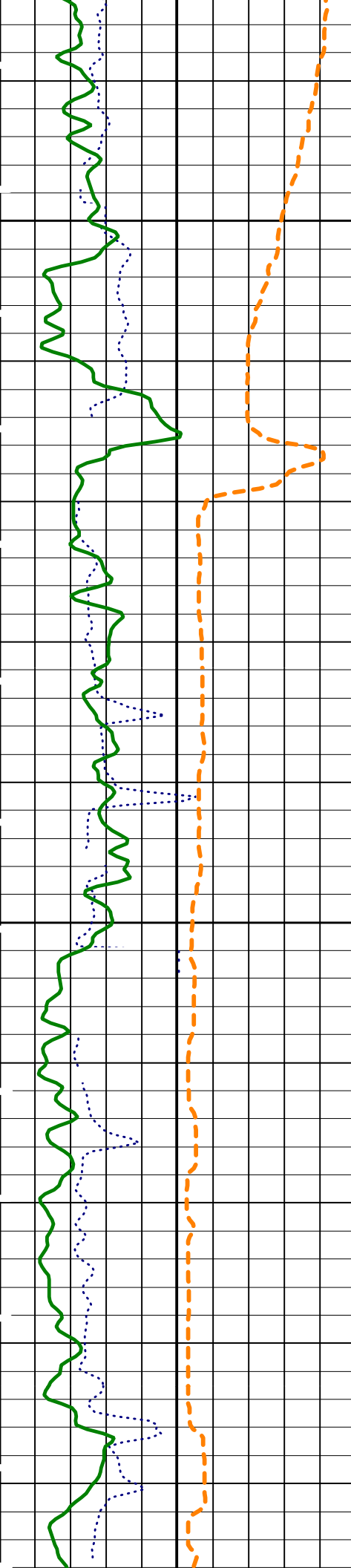


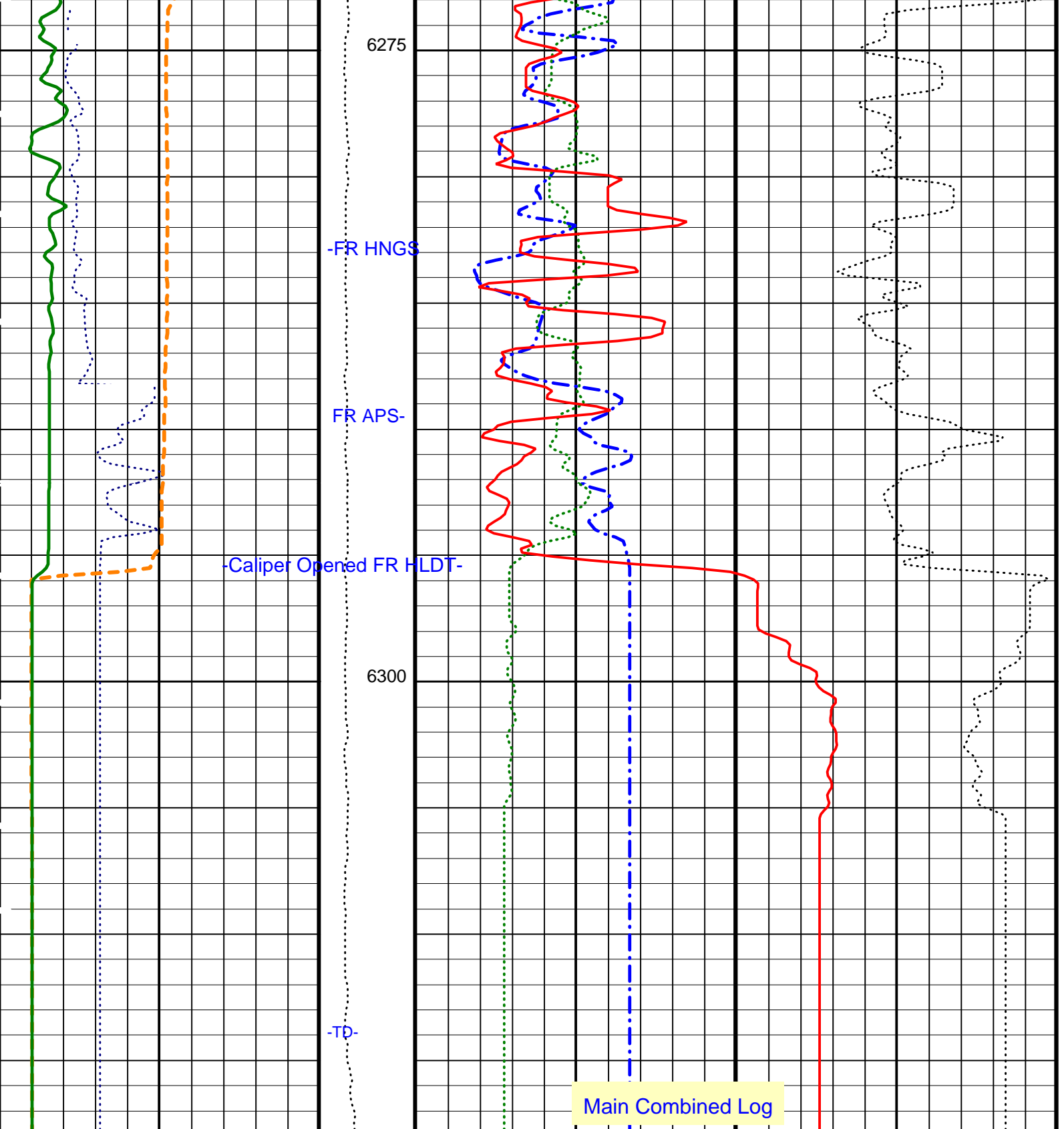












Caliper (CALI) (IN)	0	20	Tension (TENS) (LBF)	0	10000	APS Near/Array Corrected Limestone Porosity (APLC) (PU)	0	100
APS Effective Standoff in Limestone (STOF) (IN)	-1	4	PhotoElectric Factor (PEF) (----)	0	10	Bulk Density Correction (DRHO) (G/C3)	-0.25	0.25
HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)	0	100	Bulk Density (RHOB) (G/C3)	3	1			

Parameters

DLIS Name	Description	Value	
	APS Cement Thickness Source	COMPUTED	
	Apparent Thickness of Cement	0	IN
	APS Software Version	5	
AASD	APS Thermal and Array Detectors High Voltage Setting	1968.98	V
ABOS	APS Neutron Burst-Off Background Subtraction Switch	ON	
ADSO	APS Array Detectors Data Source Switch	Both	
AFSD	APS Far Detector High Voltage Setting	2052.03	V
AHCS	APS Holesize Correction Source	BS	
AHSS	APS Holesize Correction Switch	ON	
ALTDPCCHAN	Name of alternate depth channel	MeasuredDepth	
AMTY	APS Environmental Corrections Mud Type	WaterBaseBarite	
ANSD	APS Near Detector High Voltage Setting	1748.3	V
AOTS	APS Old Temperature Sensor Switch	NO	
ASOS	APS Standoff Correction Switch	ON	
ATSS	APS Temperature-Pressure-Salinity Correction Switch	ON	
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BFM	Borehole Fluid Medium	LIQUID	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	40	DEGF
BKSF	HNGS Borehole Fluid Excluder Sleeve Algorithm Factor	1	
BKSH	HNGS Borehole Fluid Excluder Sleeve Algorithm High Channel	245	
BKSL	HNGS Borehole Fluid Excluder Sleeve Algorithm Low Channel	17	
BS	Bit Size	9.875	IN
BSAL	Borehole Salinity	35000.00	PPM
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSIZ	Current Casing Size	0.000	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
CWEI	Casing Weight	0.00	LB/F
D1PR	HNGS Detector 1 Calibration Thorium Peak Resolution	8.0343	%
D1TC	HNGS Detector 1 Calibration Temperature	87.4251	DEGF
D1TL	HNGS Detector 1 Calibration Thorium Peak Location	210.477	
D2PR	HNGS Detector 2 Calibration Thorium Peak Resolution	7.33894	%
D2TC	HNGS Detector 2 Calibration Temperature	85.5201	DEGF
D2TL	HNGS Detector 2 Calibration Thorium Peak Location	208.56	
DBCC	HNGS Barite Constant Correction Flag	NONE	
DFD	Drilling Fluid Density	1.05	G/C3
DHC	Density Hole Correction	BS	
DO	Depth Offset for Playback	0.0	M
DPPM	Density Porosity Processing Mode	HIRS	
DPRF	DEEP REFERENCE POWER	550	NW
FD	Fluid Density	1	G/C3
FSAL	Formation Salinity	35500	PPM
GCF1_START	HNGS Detector 1 GCF Constant	1	
GCF2_START	HNGS Detector 2 GCF Constant	1	
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00377598	
HALF	HNGS Alpha Filter Length	60	IN
HATIM	HNGS Marquardt Accumulation Time	600	S
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
HSLV	HNGS Borehole Fluid Excluder Sleeve Status	NO	
HSVN	HNGS Spectral Standards Version Number	3.92875e-032	
KFAC	K FACTOR	SOND	
LLOO	LATEROLOG LOOP	OFF	
LSHC	LS Hardware Loop Control	DISALLOW	
MARQ_START	HNGS Marquardt Start-up Mode	INTERNAL	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MDEN	Matrix Density	2.71	G/C3
MST	Mud Sample Temperature	82.00	DEGC
NARC	APS Near/Array Calibration Ratio	1.06443	
NFRC	APS Near/Far Calibration Ratio	0.900767	
NOTS	NPLC Old Temperature Sensor	NO	
PBVSADP	Use alternate depth channel for playback	NO	
PLRM	POWER LOOP REFERENCE MODE	DEEP	
PP	Playback Processing	NORMAL	
QPPS	Quicklook Processing Pe Select	PEFL	
RDE1_START	HNGS Detector 1 RDE Constant	0	

RDF1_START	HNGS Detector 1 RDF Constant	0	
RDF2_START	HNGS Detector 2 RDF Constant	0	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S1NA	HNGS Detector 1 Calibration Sodium Count Rate	21.323	CPS
S1NG	HNGS Detector 1 Calibration End-On / Side-On Gain Ratio	0.986452	
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
S2NA	HNGS Detector 2 Calibration Sodium Count Rate	21.8134	CPS
S2NG	HNGS Detector 2 Calibration End-On / Side-On Gain Ratio	0.977534	
SABK	HNGS Statistical Uncertainty in Borehole Potassium Running Average	9.20898e-005	
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
SHT	Surface Hole Temperature	68	DEGF
SPRF	SHALLOW REFERENCE POWER	550	NW
SSHC	SS Hardware Loop Control	DISALLOW	
TD	Total Depth	20734	FT
TDD	Total Depth - Driller	6320.00	M
TDL	Total Depth - Logger	6320.00	M
TPOS	Tool Position	ECCE	
TWS	Temperature of Connate Water Sample	37.78	DEGC
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.07226	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.02923	
WMUD	Mud Weight	0.994556	G/C3

Format: APSLiquidPorosity_1 Vertical Scale: 1:200 Graphics File Created: 14-Apr-2001 10:46

OP System Version: 9C2-303			
MCM			
DLT-E	9C2-303	HLDT-A	9C2-303
DTA-A	9C2-303	NPLC-B	9C2-303
APS-BA	9C2-303	HNGS-BA	9C2-303
DTC-H	9C2-303		

Input DLIS Files						
DEFAULT	SPLICE_DLL_LDL_APS_096	FN:1	PRODUCER	14-Apr-2001 10:44	6317.7 M	5703.9 M
Output DLIS Files						
DEFAULT	DLL_LDL_APS_HNGS_097PUP	FN:81	PRODUCER	14-Apr-2001 10:46		
REDUCE	DLL_LDL_APS_HNGS_097PUP	FN:82	PRODUCER	14-Apr-2001 10:46		

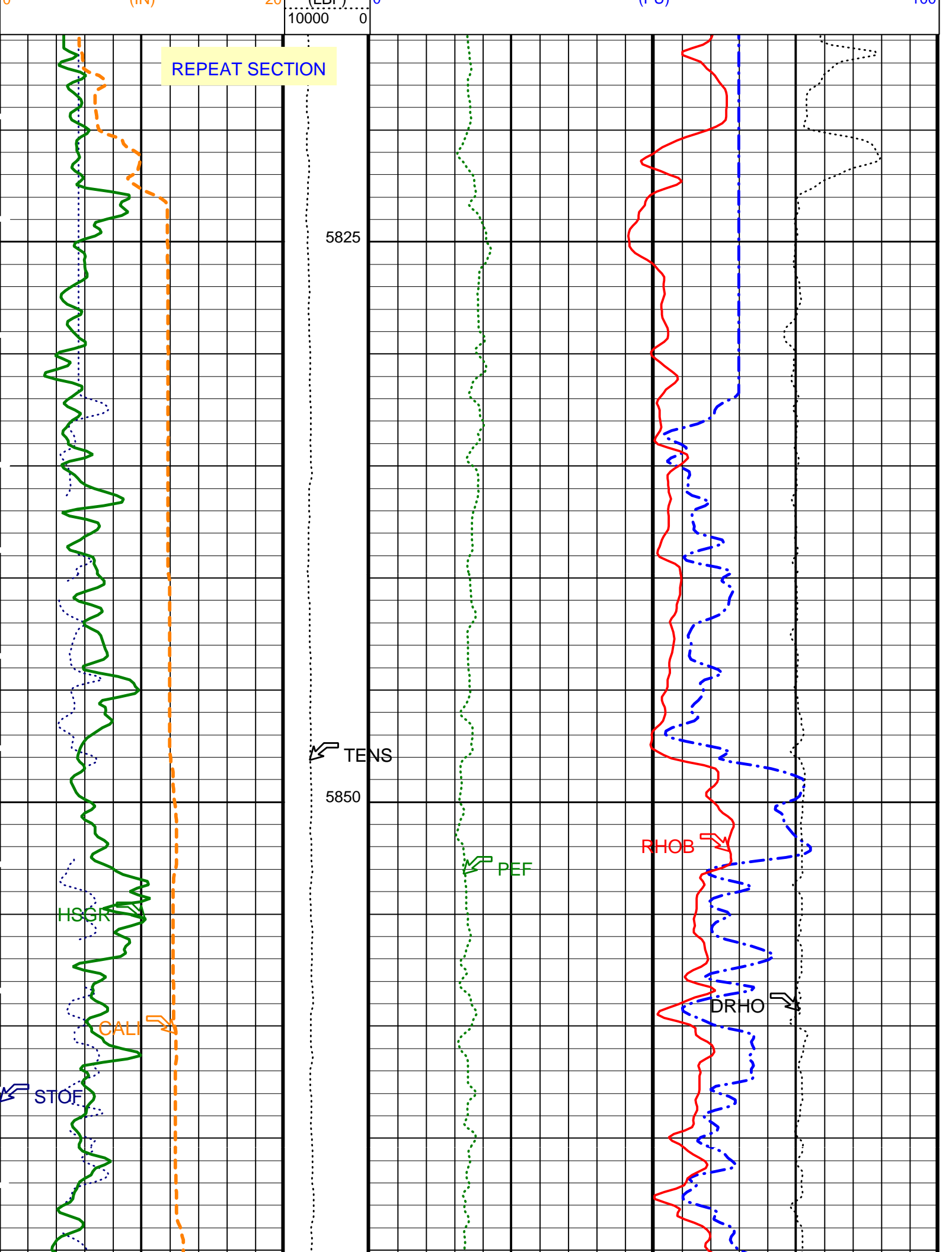
Input DLIS Files						
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Output DLIS Files						
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REDUCE	DLL_LDL_APS_HNGS_038PUP	FN:37	PRODUCER	13-Apr-2001 00:53	5904.7 M	5815.7 M

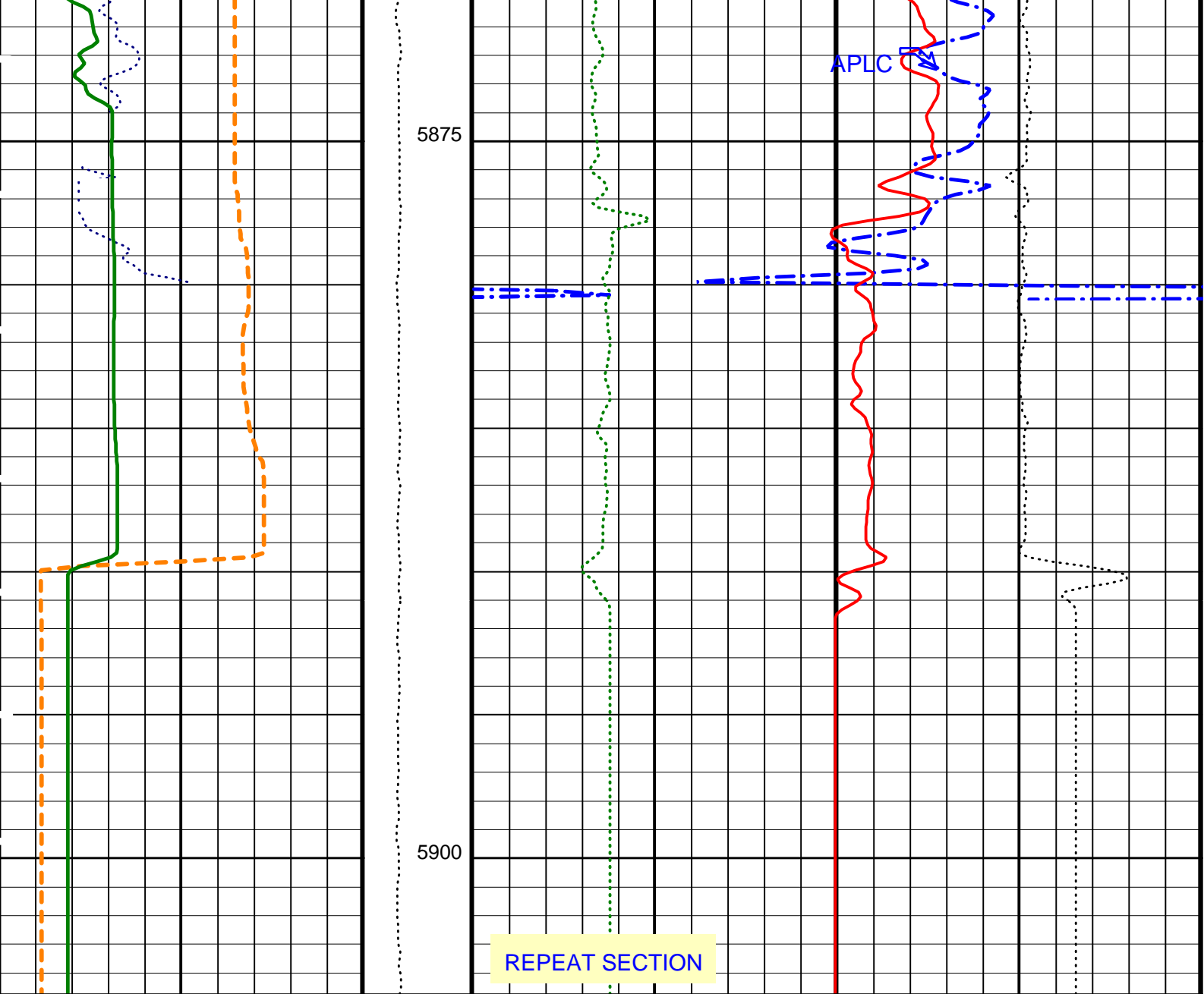
OP System Version: 9C2-303			
MCM			
DLT-E	9C2-303	HLDT-A	9C2-303
DTA-A	9C2-303	NPLC-B	9C2-303
APS-BA	9C2-303	HNGS-BA	9C2-303
DTC-H	9C2-303		

PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)		Bulk Density (RHOB)			
(GAPI) 0 100		(G/C3) 3 1			
APS Effective Standoff in Limestone (STOF)		PhotoElectric Factor (PEF)		Bulk Density Correction (DRHO)	
(IN) -1 4		(---) 0 10		(G/C3) -0.25 0.25	
Caliper (CALI)		APS Near/Array Corrected Limestone Porosity (APLC)			
(IN) 0 20		(PLI) 0 100			
Tension (TENS)		---			
(LBF) 0 20		---			





Caliper (CALI) (IN)	0	20	Tension (TENS) (LBF)	0	10000	APS Near/Array Corrected Limestone Porosity (APLC) (PU)	0	100
APS Effective Standoff in Limestone (STOF) (IN)	-1	4	PhotoElectric Factor (PEF) (---)	0	10	Bulk Density Correction (DRHO) (G/C3)	-0.25	0.25
HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)	0	100	Bulk Density (RHOB) (G/C3)	3	1			

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
	APS Cement Thickness Source	COMPUTED
	Apparent Thickness of Cement	0 IN
	APS Software Version	5
AASD	APS Thermal and Array Detectors High Voltage Setting	1968.98 V
ABOS	APS Neutron Burst-Off Background Subtraction Switch	ON
ADSO	APS Array Detectors Data Source Switch	Both
AFSD	APS Far Detector High Voltage Setting	2052.03 V
AHCS	APS Holedsize Correction Source	BS
AISS	APS Holedsize Correction Switch	ON

AHSS	APS Holesize Correction Switch	ON	
ALTDPCCHAN	Name of alternate depth channel	MeasuredDepth	
AMTY	APS Environmental Corrections Mud Type	WaterBaseBarite	
ANSD	APS Near Detector High Voltage Setting	1748.3	V
AOTS	APS Old Temperature Sensor Switch	NO	
ASOS	APS Standoff Correction Switch	ON	
ATSS	APS Temperature-Pressure-Salinity Correction Switch	ON	
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BFM	Borehole Fluid Medium	LIQUID	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	40	DEGF
BKSF	HNGS Borehole Fluid Excluder Sleeve Algorithm Factor	1	
BKSH	HNGS Borehole Fluid Excluder Sleeve Algorithm High Channel	245	
BKSL	HNGS Borehole Fluid Excluder Sleeve Algorithm Low Channel	17	
BS	Bit Size	9.875	IN
BSAL	Borehole Salinity	35000.00	PPM
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSIZ	Current Casing Size	0.000	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
CWEI	Casing Weight	0.00	LB/F
D1PR	HNGS Detector 1 Calibration Thorium Peak Resolution	8.0343	%
D1TC	HNGS Detector 1 Calibration Temperature	87.4251	DEGF
D1TL	HNGS Detector 1 Calibration Thorium Peak Location	210.477	
D2PR	HNGS Detector 2 Calibration Thorium Peak Resolution	7.33894	%
D2TC	HNGS Detector 2 Calibration Temperature	85.5201	DEGF
D2TL	HNGS Detector 2 Calibration Thorium Peak Location	208.56	
DBCC	HNGS Barite Constant Correction Flag	NONE	
DFD	Drilling Fluid Density	1.05	G/C3
DHC	Density Hole Correction	BS	
DO	Depth Offset for Playback	0.0	M
DPPM	Density Porosity Processing Mode	HIRS	
DPRF	DEEP REFERENCE POWER	550	NW
FD	Fluid Density	1	G/C3
FSAL	Formation Salinity	35500	PPM
GCF1_START	HNGS Detector 1 GCF Constant	1	
GCF2_START	HNGS Detector 2 GCF Constant	1	
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.0040082	
HALF	HNGS Alpha Filter Length	60	IN
HATIM	HNGS Marquardt Accumulation Time	600	S
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
HSLV	HNGS Borehole Fluid Excluder Sleeve Status	NO	
HSVN	HNGS Spectral Standards Version Number	2.30388e-036	
KFAC	K FACTOR	SOND	
LLOO	LATEROLOG LOOP	OFF	
LSHC	LS Hardware Loop Control	DISALLOW	
MARQ_START	HNGS Marquardt Start-up Mode	INTERNAL	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MDEN	Matrix Density	2.71	G/C3
MST	Mud Sample Temperature	82.00	DEGC
NARC	APS Near/Array Calibration Ratio	1.06443	
NFRC	APS Near/Far Calibration Ratio	0.900767	
NOTS	NPLC Old Temperature Sensor	NO	
PBVSADP	Use alternate depth channel for playback	YES	
PLRM	POWER LOOP REFERENCE MODE	DEEP	
PP	Playback Processing	RECOMPUTE	
QPPS	Quicklook Processing Pe Select	PEFL	
RDF1_START	HNGS Detector 1 RDF Constant	0	
RDF2_START	HNGS Detector 2 RDF Constant	0	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S1NA	HNGS Detector 1 Calibration Sodium Count Rate	21.323	CPS
S1NG	HNGS Detector 1 Calibration End-On / Side-On Gain Ratio	0.986452	
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
S2NA	HNGS Detector 2 Calibration Sodium Count Rate	21.8134	CPS
S2NG	HNGS Detector 2 Calibration End-On / Side-On Gain Ratio	0.977534	
SABK	HNGS Statistical Uncertainty in Borehole Potassium Running Average	8.45832e-005	
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
SHT	Surface Hole Temperature	68	DEGF
SPRF	SHALLOW REFERENCE POWER	550	NW
SSHHC	SS Hardware Loop Control	DISALLOW	

TD	Total Depth	20734	FT
TDD	Total Depth - Driller	6320.00	M
TDL	Total Depth - Logger	6320.00	M
TPOS	Tool Position	ECCE	
TWS	Temperature of Connate Water Sample	37.78	DEGC
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.06885	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.04232	
WMUD	Mud Weight	0.994556	G/C3

Format: APSLiquidPorosity_1 Vertical Scale: 1:200 Graphics File Created: 13-Apr-2001 00:53

OP System Version: 9C2-303

MCM

DLT-E	9C2-303	HLDT-A	9C2-303
DTA-A	9C2-303	NPLC-B	9C2-303
APS-BA	9C2-303	HNGS-BA	9C2-303
DTC-H	9C2-303		

Input DLIS Files

DEFAULT	DLL_LDL_APS_HNGS_030LUP	FN:20	PRODUCER	12-Apr-2001 21:59	5904.7 M	5810.1 M
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Output DLIS Files

DEFAULT	DLL_LDL_APS_HNGS_038PUP	FN:36	PRODUCER	13-Apr-2001 00:53
REDUCE	DLL_LDL_APS_HNGS_038PUP	FN:37	PRODUCER	13-Apr-2001 00:53

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
DUAL LATEROLOG - E Wellsite Calibration - DLT ELECTRONICS CALIBRATION Laterolog Measurement							
Before: 12-Apr-2001 19:31 After: 13-Apr-2001 0:05							
MEASURED LLD	31.62	N/A	31.96	31.95	-0.009939	0.9000	OHMM
MEASURED LLS	31.62	N/A	31.13	31.15	0.01953	0.9000	OHMM
Hostile Environment Litho Density - A Wellsite Calibration - Background Measurement							
Master: 25-Feb-2001 4:31 Before: 17-Mar-2001 2:28 After: 13-Apr-2001 2:11							
LSW1 Background	100.0	89.57	90.13	89.70	-0.4220	3.000	CPS
LSW2 Background	105.0	93.01	94.83	94.01	-0.8213	3.150	CPS
LSW3 Background	210.0	182.4	180.0	181.4	1.325	6.300	CPS
LSW4 Background	290.0	244.1	244.0	243.0	-1.012	8.700	CPS
LSW5 Background	610.0	539.3	535.2	533.1	-2.070	18.30	CPS
SSW1 Background	100.0	86.90	87.09	86.97	-0.1207	3.000	CPS
SSW2 Background	200.0	172.0	171.7	170.1	-1.511	6.000	CPS
SSW3 Background	530.0	455.8	454.0	451.8	-2.122	15.90	CPS
SSW4 Background	280.0	240.8	240.9	239.7	-1.131	8.400	CPS
SSW5 Background	205.0	178.8	179.0	179.2	0.2390	6.150	CPS
Hostile Environment Litho Density - A Wellsite Calibration - Tool Quality Control Information High Voltage							
Master: 25-Feb-2001 4:31 Before: 17-Mar-2001 2:28 After: 13-Apr-2001 2:11							
LS Bkg. High Voltage	1127	1127	1132	1134	2.103	N/A	V
SS Bkg. High Voltage	1178	1178	1178	1180	2.536	N/A	V
Hostile Environment Litho Density - A Wellsite Calibration - Detectors Resolution From BKG Measurements							
Master: 25-Feb-2001 4:31 Before: 17-Mar-2001 2:28 After: 13-Apr-2001 2:11							
LS Background Resolution	1.000	1.027	1.041	1.045	0.003996	N/A	
SS Background Resolution	1.000	0.9461	0.9462	0.9470	0.0008126	N/A	
Hostile Environment Litho Density - A Wellsite Calibration - Caliper Calibration							
Before: 17-Mar-2001 2:07							
Caliper Small Ring	12.00	N/A	16.23	N/A	N/A	N/A	IN
Caliper Large Ring	18.25	N/A	23.88	N/A	N/A	N/A	IN
Hostile Environment Litho Density - A Master Calibration - Aluminum Measurement							
Master: 25-Feb-2001 4:52							
LSW1 Aluminum	648.4	598.2	--	--	--	--	CPS
LSW2 Aluminum	1018	955.0	--	--	--	--	CPS
LSW3 Aluminum	1105	1008	--	--	--	--	CPS
LSW4 Aluminum	609.5	556.2	--	--	--	--	CPS
LSW5 Aluminum	533.8	492.0	--	--	--	--	CPS
SSW1 Aluminum	2664	2543	--	--	--	--	CPS
SSW2 Aluminum	7731	7423	--	--	--	--	CPS

SSW3 Aluminum	10380	9983	--	--	--	--	CPS
SSW4 Aluminum	4574	4364	--	--	--	--	CPS
SSW5 Aluminum	745.2	725.1	--	--	--	--	CPS

Hostile Environment Litho Density - A Master Calibration - Tool Quality Control Information: High Voltage

Master: 25-Feb-2001 4:52

LS Alum. High Voltage	1127	1130	--	--	--	--	V
SS Alum. High Voltage	1178	1167	--	--	--	--	V

Hostile Environment Litho Density - A Master Calibration - Detectors Resolution From Aluminum Measurement

Master: 25-Feb-2001 4:52

LS Aluminum Resolution	1.000	1.041	--	--	--	--	
SS Aluminum Resolution	1.000	1.028	--	--	--	--	

Hostile Environment Litho Density - A Master Calibration - Aluminum Measurement (Window Ratios)

Master: 25-Feb-2001 4:52

LSW1/(LSW4 + LSW5) Calc.	0.5400	0.5707	--	--	--	--	
LSW3/(LSW4 + LSW5) Calc.	0.9600	0.9613	--	--	--	--	
SSW1/(SSW4 + SSW5) Calc.	0.4600	0.4997	--	--	--	--	
SSW3/(SSW4 + SSW5) Calc.	1.900	1.962	--	--	--	--	

Hostile Environment Litho Density - A Master Calibration - Litholog Measurement

Master: 25-Feb-2001 4:47

LSW1 Iron	410.0	429.9	--	--	--	--	CPS
LSW2 Iron	870.0	810.2	--	--	--	--	CPS
LSW3 Iron	1030	934.8	--	--	--	--	CPS
LSW4 Iron	590.0	523.3	--	--	--	--	CPS
LSW5 Iron	530.0	468.6	--	--	--	--	CPS
SSW1 Iron	1850	1887	--	--	--	--	CPS
SSW2 Iron	6500	6358	--	--	--	--	CPS
SSW3 Iron	10000	9323	--	--	--	--	CPS
SSW4 Iron	4500	4091	--	--	--	--	CPS
SSW5 Iron	750.0	658.2	--	--	--	--	CPS

Hostile Environment Litho Density - A Master Calibration - Tool Quality Control Information: High Voltage

Master: 25-Feb-2001 4:47

LS Lith High Voltage	1127	1129	--	--	--	--	V
SS Lith High Voltage	1178	1169	--	--	--	--	V

Hostile Environment Litho Density - A Master Calibration - Detectors Resolution From Litholog Measurement

Master: 25-Feb-2001 4:47

LS Lith Resolution	1.000	1.033	--	--	--	--	
SS Lith Resolution	1.000	1.032	--	--	--	--	

Accelerator-Porosity Tool Wellsite Calibration - Detector Background

Master: 24-Feb-2001 4:02 Before: 12-Apr-2001 16:55 After: 12-Apr-2001 23:55

Near Det Bkg Cntrate	30.00	32.57	32.70	55.83	23.12	N/A	CPS
Far Det Bkg Cntrate	30.00	32.66	32.64	34.38	1.745	N/A	CPS
Array-1 Det Bkg Cntrate	30.00	29.51	29.03	38.58	9.554	N/A	CPS
Array-2 Det Bkg Cntrate	30.00	30.14	31.34	37.91	6.580	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	33.69	31.99	38.16	6.171	N/A	CPS

Accelerator-Porosity Tool Wellsite Calibration - Calibration Ratios

Master: 24-Feb-2001 4:02

Near/Far Calibration Ratio	0.9250	0.9008	N/A	N/A	N/A	N/A	
Near/Array Calibration Ratio	1.030	1.064	N/A	N/A	N/A	N/A	

Accelerator-Porosity Tool Master Calibration - Tank Check

Master: 24-Feb-2001 4:02

Array-1 Standoff Porosity	10.25	11.67	--	--	--	--	PU
Array-2 Standoff Porosity	10.25	11.37	--	--	--	--	PU
Sigma Formation	27.50	28.08	--	--	--	--	CU

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 1 Check

Master: 24-Feb-2001 5:08 Before: 11-Mar-2001 3:09 After: 13-Apr-2001 2:16

Na 511 Peak Loc	40.00	40.59	40.57	40.79	0.2230	1.000	
Na 511 Peak Res	15.50	16.64	16.82	15.62	-1.199	2.000	%
High Voltage	1150	1101	1108	1108	-0.2228	30.00	V
Na 1785 Peak Loc	142.6	145.5	146.4	146.3	-0.03072	7.000	
Na 1785 Peak Res	8.500	9.019	9.237	9.499	0.2612	2.000	%
Temperature	15.50	30.80	32.93	30.94	-1.994	N/A	DEGC
Na Count Rate	45.00	21.32	21.01	20.42	-0.5898	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 2 Check

Master: 24-Feb-2001 5:08 Before: 11-Mar-2001 3:09 After: 13-Apr-2001 2:16

Na 511 Peak Loc	40.00	40.60	40.59	40.49	-0.09770	1.000	
Na 511 Peak Res	15.50	16.11	16.15	15.31	-0.8404	2.000	%
High Voltage	1150	1189	1197	1196	-0.6383	30.00	V
Na 1785 Peak Loc	142.6	144.7	145.0	144.8	-0.2100	7.000	
Na 1785 Peak Res	8.500	9.551	7.951	8.858	0.9066	2.000	%
Temperature	15.50	29.75	31.98	30.79	-1.189	N/A	DEGC
Na Count Rate	45.00	21.81	21.19	20.76	-0.4358	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Ratio Of Detector 1 To Detector 2						
Master: 24-Feb-2001 5:08 Before: 11-Mar-2001 3:09 After: 13-Apr-2001 2:16						
Coincidence Count Rate Ratio	1.000	0.9809	0.9916	0.9853	-0.006294	0.05000
Hostile Natural Gamma Ray Sonde Master Calibration - Detector 1 Calibration						
Master: 24-Feb-2001 4:53						
Na 511 Peak Set Point	40.00	41.00	--	--	--	--
Th Peak Loc	209.6	210.5	--	--	--	--
Th Peak Res	7.000	8.034	--	--	--	--
Background Count Rate	142.5	16.57	--	--	--	CPS
Gain Ratio	1.000	0.9865	--	--	--	--
Hostile Natural Gamma Ray Sonde Master Calibration - Detector 2 Calibration						
Master: 24-Feb-2001 4:53						
Na 511 Peak Set Point	40.00	41.00	--	--	--	--
Th Peak Loc	209.6	208.6	--	--	--	--
Th Peak Res	7.000	7.339	--	--	--	--
Background Count Rate	142.5	18.32	--	--	--	CPS
Gain Ratio	1.000	0.9775	--	--	--	--

Accelerator-Porosity Tool - Detector Plateau Settings :

Near Detector Plateau Setting 1748 V
Far Detector Plateau Setting 2052 V
Array Detector Plateau Setting 1969 V

DUAL LATEROLOG - E / Equipment Identification		
Primary Equipment:		
Auxiliary Equipment:		
Dual Laterolog Electrode	DLE - E	
Dual Laterolog Sonde	DLS - F	929
Dual Laterolog Housing	DLH - CB	2893
Dual Laterolog Cartridge	DLC - D	930
Laterolog Control Module	LCM - AA	728

Hostile Environment Litho Density - A / Equipment Identification		
Primary Equipment:		
HOSTILE ENVIRONMENT LITHO DENSITY HIGH V	HLDV - A	10
HOSTILE ENVIRONMENT LITHO DENSITY CARTRI	HLDC - AA	11
Gamma Source Radioactive	GSR - Z	1846
Auxiliary Equipment:		
HOSTILE ENVIRONMENT LITHO DENSITY SONDE	HLDS - B	10
HOSTILE ENVIRONMENT ELECTRONICS CARTRIDG	HEH - H	12
HOSTILE ENVIRONMENT ELECTRONICS CARTRIDG	HEH - G	11
HOSTILE ENVIRONMENT LITHO DENSITY PAD	HLDP - B	10

Hostile Environment Litho Density - A Wellsite Calibration								
Background Measurement								
Phase	LSW1 Background CPS	Value	Phase	LSW2 Background CPS	Value	Phase	LSW3 Background CPS	Value
Master		89.57	Master		93.01	Master		182.4
Before		90.13	Before		94.83	Before		180.0
After		89.70	After		94.01	After		181.4
65.00 (Minimum)		100.0 (Nominal)	125.0 (Maximum)		70.00 (Minimum)		105.0 (Nominal)	130.0 (Maximum)
150.0 (Minimum)		210.0 (Nominal)	250.0 (Maximum)		Phase		SSW1 Background CPS	Value
Master		244.1	Master		539.3	Master		86.90
Before		244.0	Before		535.2	Before		87.09
After		243.0	After		533.1	After		86.97
220.0 (Minimum)		290.0 (Nominal)	330.0 (Maximum)		430.0 (Minimum)		610.0 (Nominal)	730.0 (Maximum)
70.00 (Minimum)		100.0 (Nominal)	120.0 (Maximum)					

Phase	SSW2 Background CPS	Value	Phase	SSW3 Background CPS	Value	Phase	SSW4 Background CPS	Value	
Master		172.0	Master		455.8	Master		240.8	
Before		171.7	Before		454.0	Before		240.9	
After		170.1	After		451.8	After		239.7	
	140.0 (Minimum)	200.0 (Nominal)	240.0 (Maximum)	380.0 (Minimum)	530.0 (Nominal)	630.0 (Maximum)	190.0 (Minimum)	280.0 (Nominal)	340.0 (Maximum)
Phase	SSW5 Background CPS	Value							
Master		178.8							
Before		179.0							
After		179.2							
	140.0 (Minimum)	205.0 (Nominal)	250.0 (Maximum)						
Master: 25-Feb-2001 4:31			Before: 17-Mar-2001 2:28			After: 13-Apr-2001 2:11			

Hostile Environment Litho Density - A Wellsite Calibration						
Detectors Resolution From BKG Measurements						
Phase	LS Background Resolution	Value	Phase	SS Background Resolution	Value	
Master		1.027	Master		0.9461	
Before		1.041	Before		0.9462	
After		1.045	After		0.9470	
	0.7000 (Minimum)	1.000 (Nominal)	1.111 (Maximum)	0.7000 (Minimum)	1.000 (Nominal)	1.111 (Maximum)
Master: 25-Feb-2001 4:31			Before: 17-Mar-2001 2:28			
After: 13-Apr-2001 2:11						

Hostile Environment Litho Density - A Master Calibration									
Aluminum Measurement									
Phase	LSW1 Aluminum CPS	Value	Phase	LSW2 Aluminum CPS	Value	Phase	LSW3 Aluminum CPS	Value	
Master		598.2	Master		955.0	Master		1008	
	440.0 (Minimum)	648.4 (Nominal)	840.0 (Maximum)	840.0 (Minimum)	1018 (Nominal)	1200 (Maximum)	920.0 (Minimum)	1105 (Nominal)	1280 (Maximum)
Phase	LSW4 Aluminum CPS	Value	Phase	LSW5 Aluminum CPS	Value	Phase	SSW1 Aluminum CPS	Value	
Master		556.2	Master		492.0	Master		2543	
	520.0 (Minimum)	609.5 (Nominal)	720.0 (Maximum)	450.0 (Minimum)	533.8 (Nominal)	670.0 (Maximum)	1850 (Minimum)	2664 (Nominal)	2900 (Maximum)
Phase	SSW2 Aluminum CPS	Value	Phase	SSW3 Aluminum CPS	Value	Phase	SSW4 Aluminum CPS	Value	
Master		7423	Master		9983	Master		4364	
	6200 (Minimum)	7731 (Nominal)	8500 (Maximum)	8750 (Minimum)	10380 (Nominal)	11750 (Maximum)	4000 (Minimum)	4574 (Nominal)	5400 (Maximum)
Phase	SSW5 Aluminum CPS	Value							
Master		725.1							
	570.0 (Minimum)	745.2 (Nominal)	1110 (Maximum)						
Master: 25-Feb-2001 4:52									

Hostile Environment Litho Density - A Master Calibration						
Detectors Resolution From Aluminum Measurement						
Phase	LS Aluminum Resolution	Value	Phase	SS Aluminum Resolution	Value	
Master		1.041	Master		1.028	
	0.7000 (Minimum)	1.000 (Nominal)	1.111 (Maximum)	0.7000 (Minimum)	1.000 (Nominal)	1.111 (Maximum)
Master: 25-Feb-2001 4:52						

Hostile Environment Litho Density - A Master Calibration						
Aluminum Measurement (Window Ratios)						
Phase	LSW1/(LSW4 + LSW5) Calc.	Value	Phase	LSW3/(LSW4 + LSW5) Calc.	Value	
Master		0.5707	Master		0.9613	
	0.3400 (Minimum)	0.5400 (Nominal)	0.7400 (Maximum)	0.7600 (Minimum)	0.9600 (Nominal)	1.160 (Maximum)
Phase	SSW1/(SSW4 + SSW5) Calc.	Value	Phase	SSW3/(SSW4 + SSW5) Calc.	Value	
Master		0.4997	Master		1.962	
	0.3600 (Minimum)	0.4600 (Nominal)	0.5600 (Maximum)	1.700 (Minimum)	1.900 (Nominal)	2.100 (Maximum)

Hostile Environment Litho Density - A Master Calibration											
Litholog Measurement											
Phase	LSW1 Iron CPS		Value	Phase	LSW2 Iron CPS		Value	Phase	LSW3 Iron CPS		Value
Master			429.9	Master			810.2	Master			934.8
	310.0 (Minimum)	410.0 (Nominal)	510.0 (Maximum)		660.0 (Minimum)	870.0 (Nominal)	980.0 (Maximum)		810.0 (Minimum)	1030 (Nominal)	1170 (Maximum)
Phase	LSW4 Iron CPS		Value	Phase	LSW5 Iron CPS		Value	Phase	SSW1 Iron CPS		Value
Master			523.3	Master			468.6	Master			1887
	470.0 (Minimum)	590.0 (Nominal)	670.0 (Maximum)		400.0 (Minimum)	530.0 (Nominal)	620.0 (Maximum)		1400 (Minimum)	1850 (Nominal)	2120 (Maximum)
Phase	SSW2 Iron CPS		Value	Phase	SSW3 Iron CPS		Value	Phase	SSW4 Iron CPS		Value
Master			6358	Master			9323	Master			4091
	5170 (Minimum)	6500 (Nominal)	7270 (Maximum)		8100 (Minimum)	10000 (Nominal)	11000 (Maximum)		3620 (Minimum)	4500 (Nominal)	5020 (Maximum)
Phase	SSW5 Iron CPS		Value								
Master			658.2								
	470.0 (Minimum)	750.0 (Nominal)	10100 (Maximum)								

Master: 25-Feb-2001 4:47

Hostile Environment Litho Density - A Master Calibration							
Detectors Resolution From Litholog Measurement							
Phase	LS Lith Resolution		Value	Phase	SS Lith Resolution		Value
Master			1.033	Master			1.032
	0.7000 (Minimum)	1.000 (Nominal)	1.111 (Maximum)		0.7000 (Minimum)	1.000 (Nominal)	1.111 (Maximum)

Master: 25-Feb-2001 4:47

Nuclear Porosity Lithology Cartridge - B / Equipment Identification		
Primary Equipment:		
NPLC Cartridge	NPLC - B	79
Auxiliary Equipment:		
NPLC Housing	NPH - B	82

Accelerator-Porosity Tool / Equipment Identification		
Primary Equipment:		
Accelerator-Porosity Sonde	APS - BA	22
APS Minitron	MNTR - F	4185
Auxiliary Equipment:		
Accelerator-Porosity Housing	APH - AC	22
APS Calibration Water Tank	SFT - 178	4722
APS Aluminium Calibrator Sleeve	SFT - 281	24

Near Bkg high because measurement taken shortly after logging.

Accelerator-Porosity Tool Wellsite Calibration											
Detector Background											
Phase	Near Det Bkg Cntrate CPS		Value	Phase	Far Det Bkg Cntrate CPS		Value	Phase	Array-1 Det Bkg Cntrate CPS		Value
Master			32.57	Master			32.66	Master			29.51
Before			32.70	Before			32.64	Before			29.03
After			55.83	After			34.38	After			38.58
	0 (Minimum)	30.00 (Nominal)	50.00 (Maximum)		0 (Minimum)	30.00 (Nominal)	50.00 (Maximum)		0 (Minimum)	30.00 (Nominal)	50.00 (Maximum)
Phase	Array-2 Det Bkg Cntrate CPS		Value	Phase	Array Therm Det Bkg Cntrate CPS		Value				
Master			30.14	Master			33.69				
Before			31.34	Before			31.99				
After			37.91	After			38.16				

0 (Minimum)	30.00 (Nominal)	50.00 (Maximum)	0 (Minimum)	30.00 (Nominal)	50.00 (Maximum)
Master: 24-Feb-2001 4:02			Before: 12-Apr-2001 16:55		
After: 12-Apr-2001 23:55					

Accelerator-Porosity Tool Wellsite Calibration						
Calibration Ratios						
Phase	Near/Far Calibration Ratio		Value	Phase	Near/Array Calibration Ratio	
Master			0.9008	Master		
	0.8000 (Minimum)	0.9250 (Nominal)	1.050 (Maximum)		0.9000 (Minimum)	1.030 (Nominal)
Master: 24-Feb-2001 4:02						

Accelerator-Porosity Tool Master Calibration						
Detector Calibration						
Phase	Near/Far Calibration Ratio		Value	Phase	Near/Array Calibration Ratio	
Master			0.9008	Master		
	0.8000 (Minimum)	0.9250 (Nominal)	1.050 (Maximum)		0.9000 (Minimum)	1.030 (Nominal)
Master: 24-Feb-2001 4:02						

Accelerator-Porosity Tool Master Calibration													
Tank Check													
Phase	Array-1 Standoff Porosity PU			Value	Phase	Array-2 Standoff Porosity PU			Value	Phase	Sigma Formation CU		Value
Master				11.67	Master				11.37	Master			28.08
	5.500 (Minimum)	10.25 (Nominal)	15.00 (Maximum)			5.500 (Minimum)	10.25 (Nominal)	15.00 (Maximum)			20.00 (Minimum)	27.50 (Nominal)	35.00 (Maximum)
Master: 24-Feb-2001 4:02													

Hostile Natural Gamma Ray Sonde / Equipment Identification			
Primary Equipment:	HNGS Sonde	HNGS - BA	27
Auxiliary Equipment:	HNGS Sonde Housing	HNSH - BA	27
	Gamma Source Radioactive	GSR - U	135

Hostile Natural Gamma Ray Sonde Wellsite Calibration											
Detector 1 Check											
Phase	Na 511 Peak Loc		Value	Phase	Na 511 Peak Res %		Value	Phase	High Voltage V		Value
Master			40.59	Master			16.64	Master			1101
Before			40.57	Before			16.82	Before			1108
After			40.79	After			15.62	After			1108
	37.50 (Minimum)	40.00 (Nominal)	42.50 (Maximum)		12.00 (Minimum)	15.50 (Nominal)	19.00 (Maximum)		900.0 (Minimum)	1150 (Nominal)	1600 (Maximum)
Phase	Na 1785 Peak Loc		Value	Phase	Na 1785 Peak Res %		Value	Phase	Temperature DEGC		Value
Master			145.5	Master			9.019	Master			30.80
Before			146.4	Before			9.237	Before			32.93
After			146.3	After			9.499	After			30.94
	135.0 (Minimum)	142.6 (Nominal)	150.3 (Maximum)		7.000 (Minimum)	8.500 (Nominal)	11.00 (Maximum)		-28.89 (Minimum)	15.50 (Nominal)	60.00 (Maximum)
Phase	Na Count Rate CPS		Value								
Master			21.32								
Before			21.01								
After			20.42								
	15.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)								
Master: 24-Feb-2001 5:08											
Before: 11-Mar-2001 3:09											
After: 13-Apr-2001 2:16											

Hostile Natural Gamma Ray Sonde Wellsite Calibration											
Detector 2 Check											
Phase	Na 511 Peak Loc		Value	Phase	Na 511 Peak Res %		Value	Phase	High Voltage V		Value
Master			40.59	Master			16.64	Master			1101
Before			40.57	Before			16.82	Before			1108
After			40.79	After			15.62	After			1108
	37.50 (Minimum)	40.00 (Nominal)	42.50 (Maximum)		12.00 (Minimum)	15.50 (Nominal)	19.00 (Maximum)		900.0 (Minimum)	1150 (Nominal)	1600 (Maximum)

Master		40.60	Master		16.11	Master		1189				
Before		40.59	Before		16.15	Before		1197				
After		40.49	After		15.31	After		1196				
37.50 (Minimum)		40.00 (Nominal)	42.50 (Maximum)	12.00 (Minimum)		15.50 (Nominal)	19.00 (Maximum)	900.0 (Minimum)		1150 (Nominal)	1600 (Maximum)	
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value				
Master		144.7	Master		9.551	Master		29.75				
Before		145.0	Before		7.951	Before		31.98				
After		144.8	After		8.858	After		30.79				
135.0 (Minimum)		142.6 (Nominal)	150.3 (Maximum)	7.000 (Minimum)		8.500 (Nominal)	11.00 (Maximum)	-28.89 (Minimum)		15.50 (Nominal)	60.00 (Maximum)	
Phase	Na Count Rate CPS	Value										
Master		21.81										
Before		21.19										
After		20.76										
15.00 (Minimum)		45.00 (Nominal)	100.0 (Maximum)									
Master: 24-Feb-2001 5:08			Before: 11-Mar-2001 3:09			After: 13-Apr-2001 2:16						

Hostile Natural Gamma Ray Sonde Wellsite Calibration			
Ratio Of Detector 1 To Detector 2			
Phase	Coincidence Count Rate Ratio	Value	
Master		0.9809	
Before		0.9916	
After		0.9853	
0.9500 (Minimum)		1.000 (Nominal)	1.050 (Maximum)
Master: 24-Feb-2001 5:08			
Before: 11-Mar-2001 3:09			
After: 13-Apr-2001 2:16			

Hostile Natural Gamma Ray Sonde Master Calibration											
Detector 1 Calibration											
Phase	Na 511 Peak Set Point	Value	Phase	Th Peak Loc	Value	Phase	Th Peak Res %	Value			
Master		41.00	Master		210.5	Master		8.034			
38.00 (Minimum)		40.00 (Nominal)	42.00 (Maximum)	201.0 (Minimum)		209.6 (Nominal)	218.3 (Maximum)	5.000 (Minimum)		7.000 (Nominal)	9.000 (Maximum)
Phase	Background Count Rate CPS	Value	Phase	Gain Ratio	Value						
Master	EXCEEDS LIMIT	16.57	Master		0.9865						
20.00 (Minimum)		142.5 (Nominal)	265.0 (Maximum)	0.9400 (Minimum)		1.000 (Nominal)	1.060 (Maximum)				
Master: 24-Feb-2001 4:53											

Hostile Natural Gamma Ray Sonde Master Calibration											
Detector 2 Calibration											
Phase	Na 511 Peak Set Point	Value	Phase	Th Peak Loc	Value	Phase	Th Peak Res %	Value			
Master		41.00	Master		208.6	Master		7.339			
38.00 (Minimum)		40.00 (Nominal)	42.00 (Maximum)	201.0 (Minimum)		209.6 (Nominal)	218.3 (Maximum)	5.000 (Minimum)		7.000 (Nominal)	9.000 (Maximum)
Phase	Background Count Rate CPS	Value	Phase	Gain Ratio	Value						
Master	EXCEEDS LIMIT	18.32	Master		0.9775						
20.00 (Minimum)		142.5 (Nominal)	265.0 (Maximum)	0.9400 (Minimum)		1.000 (Nominal)	1.060 (Maximum)				
Master: 24-Feb-2001 4:53											

Background source low, does not affect log measurement.

COMPANY: Lamont Doherty WELL: ODP Leg 195, Site 1201D (WP-1B) FIELD: ION Country: Japan Ocean: West Phillipine Sea	BOTTOM LOG INTERVAL	6295 m
	SCHLUMBERGER DEPTH	6314 m
	DEPTH DRILLER	6320 m
	KELLY BUSHING	11.2989 m
	DRILL FLOOR	11 m
	GROUND LEVEL	-5720 m

Schlumberger

APS/Density Porosity