Schlumberger

Company: **Lamont Doherty Earth Observatory**
Shell
Well: **Expedition 344S, U0080A (USC80)**
Field: **Baffin Bay**
Rig: **JOIDES Resolution** Country: **USA**

Rig: JOIDES Resolution
Field: Baffin Bay
Location: Latitude: N 75* 35.9015'
Well: Expedition 344S, U0080A (USC8
Company: Lamont Doherty Earth Observato

APS Porosity
HLDS Litho−Density

LOCATION

Latitude: N 75* 35.9015'
Longitude: W 65* 02.8928'

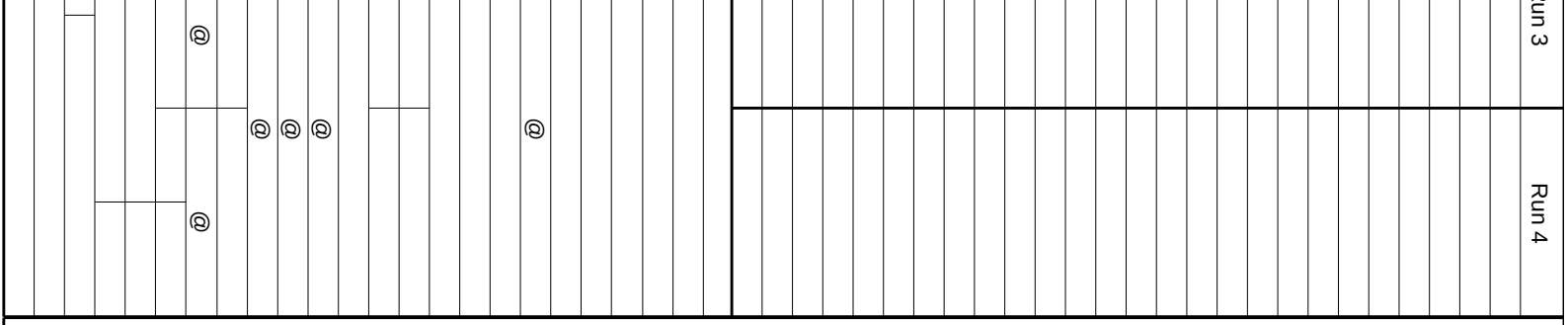
Elev.: K.B. 11.00 m
G.L. −234.00 m
D.F. 11.00 m

Permanent Datum: Mean Sea Level
Elev.: 0.00 m
Log Measured From: Drill Floor
11.00 m above Perm. Datum
Drilling Measured From: Drill Floor

Ocean:	Max. Well Deviation	Longitude	Latitude
Atlantic	0 deg	N 75* 35.9015'	W 65* 02.8928'

	Run 1	Run 2	R
Logging Date	21−Aug−2012		
Run Number	1		
Depth Driller	358.5 m		
Schlumberger Depth	354.5 m		
Bottom Log Interval	334 m		
Top Log Interval	34.8 m		
Casing Driller Size @ Depth	7.000 in @ 31 m	@	@
Casing Schlumberger	31 m		
Bit Size	9.875 in		
Type Fluid In Hole	Seawater		
MUD Density / Viscosity	1.05 g/cm3		
MUD Fluid Loss / PH			
MUD Source Of Sample	N/A		
RM @ Measured Temperature	@	@	@
RMF @ Measured Temperature	@	@	@
RMC @ Measured Temperature	@	@	@
Source RMF / RMC	N/A / N/A		
RM @ MRT / RMF @ MRT	@ 9 / @ 9	@ / @	@ / @
Maximum Recorded Temperatures	9 degC		
Circulation Stopped / Time	21−Aug−2012 / 4:00		
Logger On Bottom / Time	21−Aug−2012 / 17:40		
Unit Number / Location	625003 / Houston		
Recorded By	C. Furman		
Witnessed By	G. Guerin, H. Evans		

	Run 1	Run 2	R
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			



OTHER SERVICES1

OS1: MSS, HRLA

OS2: HNGS, DSI, FMS

OS3: VSI

REMARKS: RUN NUMBER 1

Site U0080, client designation USC 080, was cored for exploration using the RCB system.

This site is subcontracted to Shell from LDEO, not a standard USIO/IODP site!

Eccentralized tools run using inline bowspring type eccentralizers, as per tool sketch.

Centralized tools run using modified MCD chasis as inline centralizer, as per tool sketch.

Eccentered / Centered tools decoupled using knuckle joints with a through−wired spacer.

HLDS Caliper used for applicable hole size corrections.

Tools conveyed to hole on wireline through drill pipe, as is standard for this riser−less operation.

Logs recorded from Drill Floor, but played back with zero reference at sea bed for compatibility with core data.

Original sea bed, as measured from drill floor, was 231.5m uncorrected measured depth below drill floor.

Heave compensation was not required due to exceptionally calm sea state and favorable weather during logging.

TD was not tagged in order to avoid potential sticking risk associated with dropped RCB bit.

Caliper closed 10m prior to entering drill pipe; pipe set at 265mbrf (31mbsf) for logging.

APS Minitron switched off at 34.8m, prior to entering pipe.

RUN 1

SERVICE ORDER #:

PROGRAM VERSION: 19C0−187

FLUID LEVEL:

LOGGED INTERVAL	START	STOP

RUN 2

SERVICE ORDER #:

PROGRAM VERSION:

FLUID LEVEL:

LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1

SURFACE EQUIPMENT

SFT−281 1
SFT−178 1
GSR−U 616008
WITM (EDTS)−A

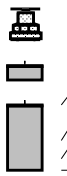
DOWNHOLE EQUIPMENT

LEH−MT

AH−369

EDTC−B
EDTH−B 8528
EDTC−B 8529

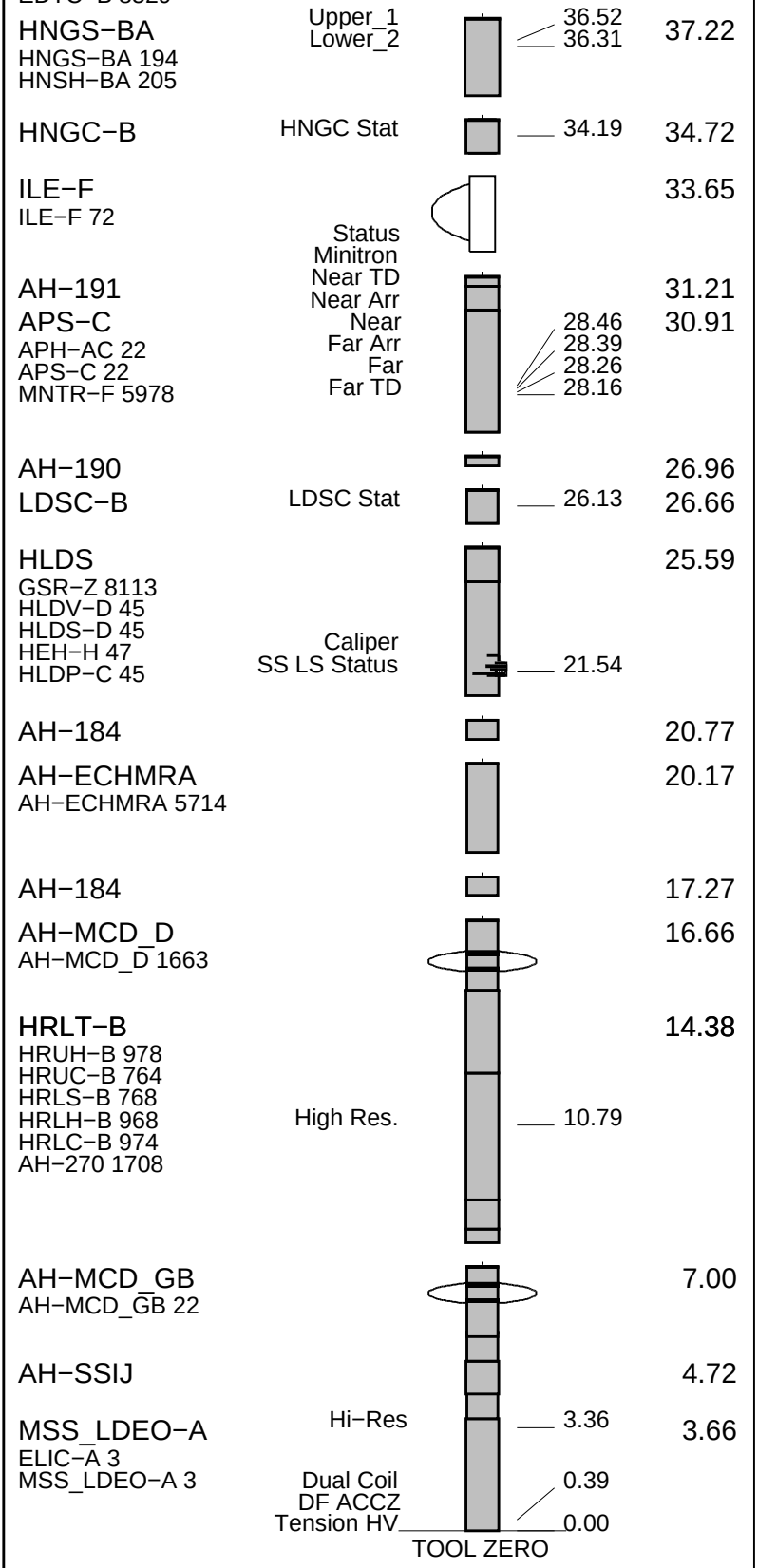
MDSB_EDTC
Mud Tempe
CTEM
Gamma Ray
EFTB DIAG
TelStatus
EDTCB Ele



39.20
38.13
37.56
37.22

40.59
39.63
39.20

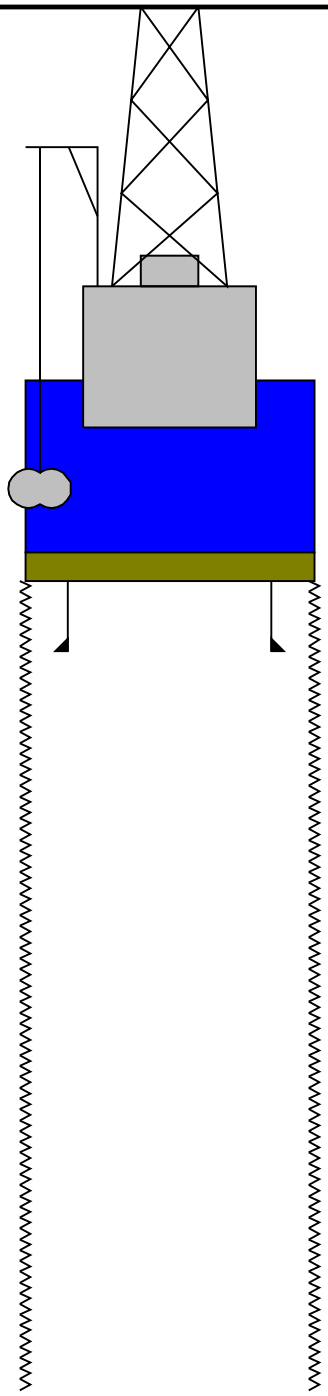
RUN 2



MAXIMUM STRING DIAMETER 4.50 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

Production String	(in) OD	(in) ID	(m) MD	Well Schematic	(m) MD	(in) OD	(in) ID	Casing String

	OD	ID	MD
Kelly Bushing Elevation			−234.0
Derrick Floor Elevation			−234.0
Mean Sea Level			−223.0
Seismic Gun depth below MSL			7.0



MD	OD	ID	
0.0			Sea Bed
31.0			Pipe
358.5	9.875		TD − Driller

Schlumberger

Main Log

MAXIS Field Log

Company: Lamont Doherty Earth Observatory **Well: Expedition 344S, U0080A (USC80)**

Input DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_019LUP	FN:22	PRODUCER	21−Aug−2012 19:43	585.2 M	224.2 M

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_039PUP	FN:46	PRODUCER	24−Aug−2012 18:52	353.6 M	−7.2 M
CLIENT	MSS_LDEO_HRLA_LDL_039PUC	FN:47	CUSTOMER	24−Aug−2012 18:52	353.6 M	−7.2 M

OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
HLDS	19C0−187	LDSC−B	19C0−187
APS−C	19C0−187	HNGC−B	19C0−187

HNGS−BA 19C0−187 EDTC−B SKK−5169−EDTCB

PIP SUMMARY

Time Mark Every 60 S

APS Total Correction in APLC (PHICOR_APLC)
−10 (PU) 10

HLDS Bulk Density Correction (DRH)
−0.25 (G/C3) 0.25

HLDS Enhanced Bulk Density (NRHB)
2 (G/C3) 3

Mudcake
From HLDS_CALIPER to BS

HLDS Bulk Density (RHOM)
2 (G/C3) 3

APS Sigma Formation (SIGF)
0 (CU) 50

HLDS Long Spaced Photoelectric Effect (PEFL)
0 (−−−−) 10

APS Sigma Formation Quality (QSGF)
10 (−−−−) 0

HLDS Caliper (LCAL)
0 (IN) 20

Gas_Effect
From HLDS_DENSITY_POROSITY to APS_EPI_ARR_POR_LS_COR

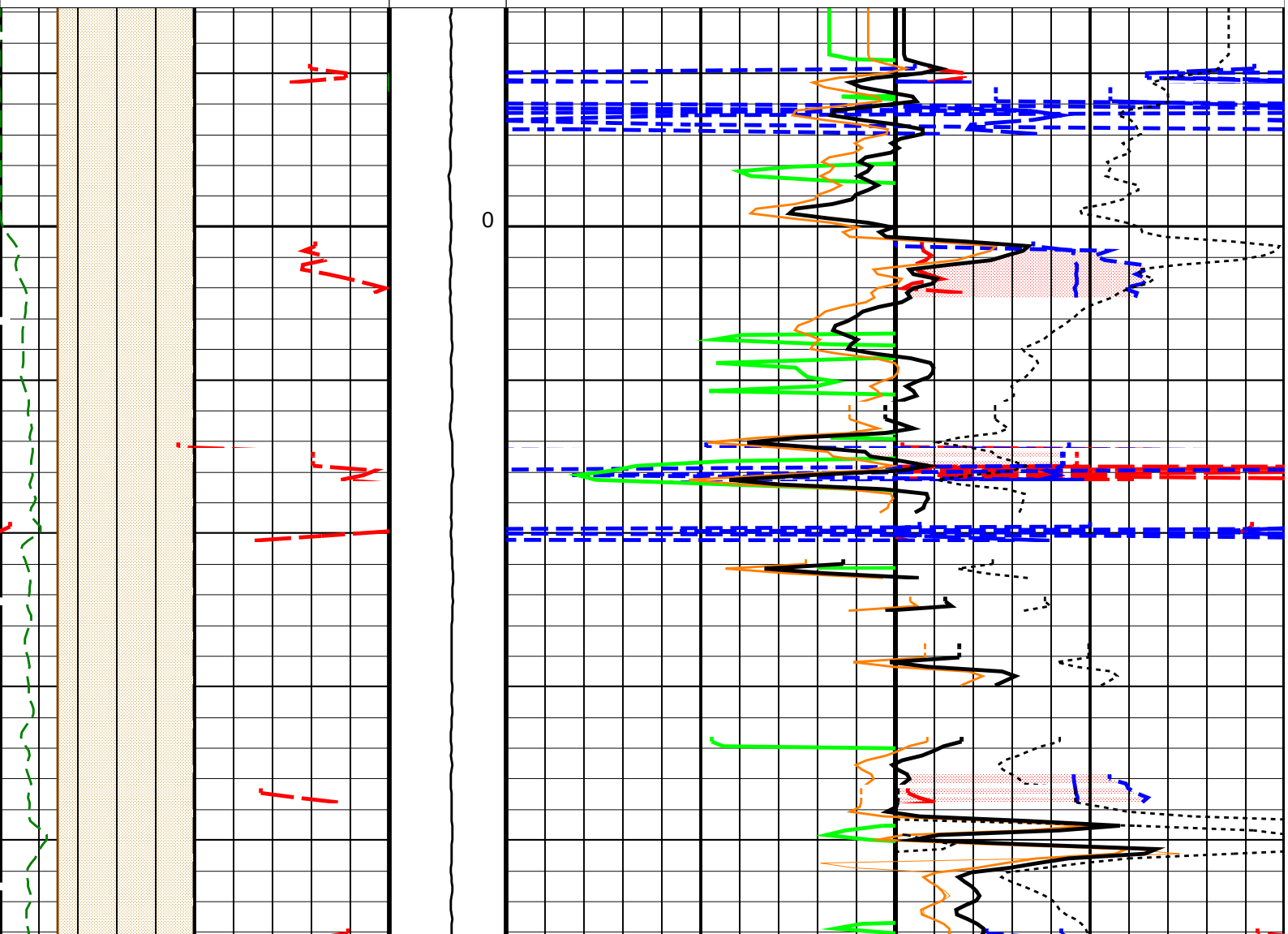
Total Gamma ray (HSGR)
0 (GAPI) 150

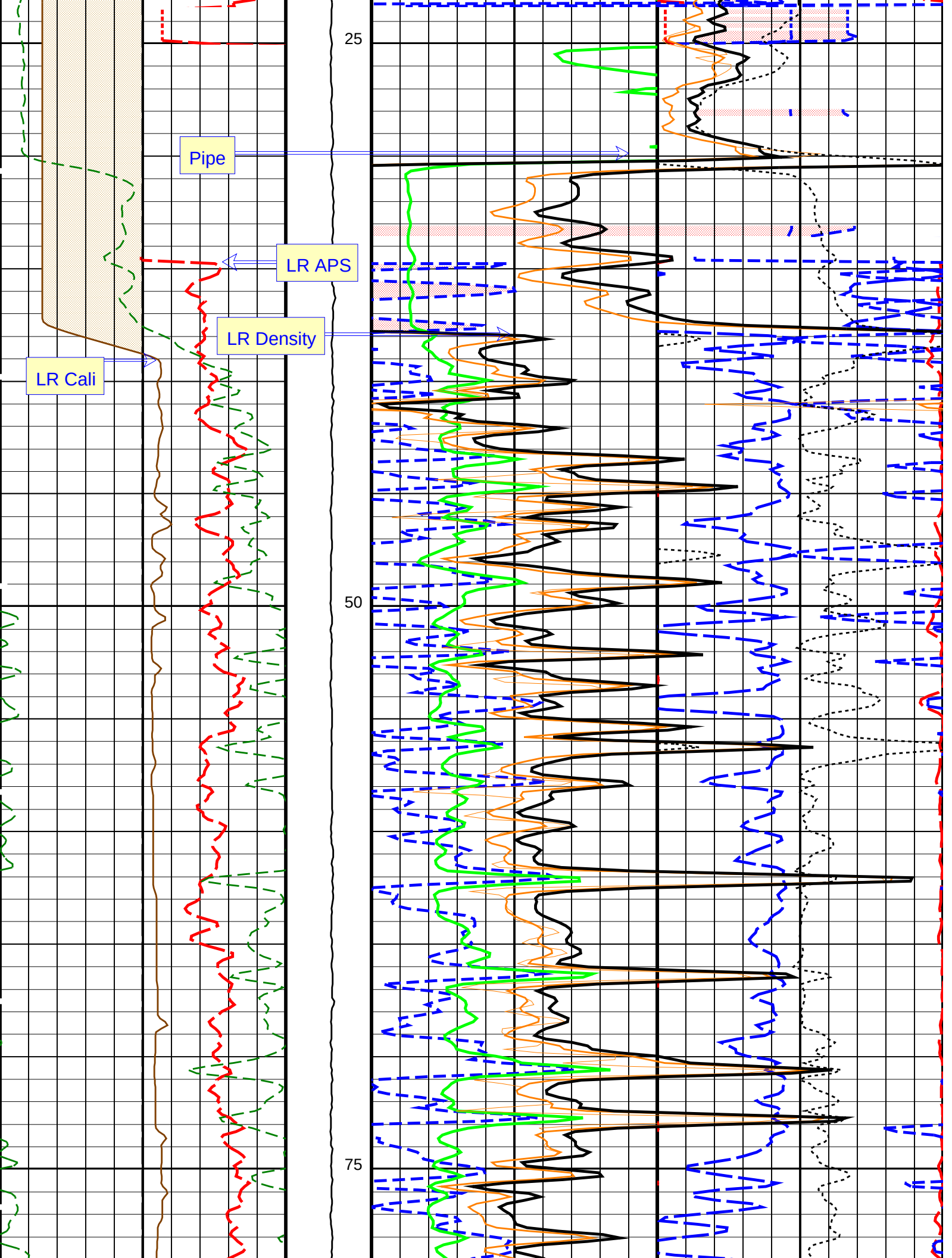
HLDS Density Porosity (DPO)
45 (PU) −15

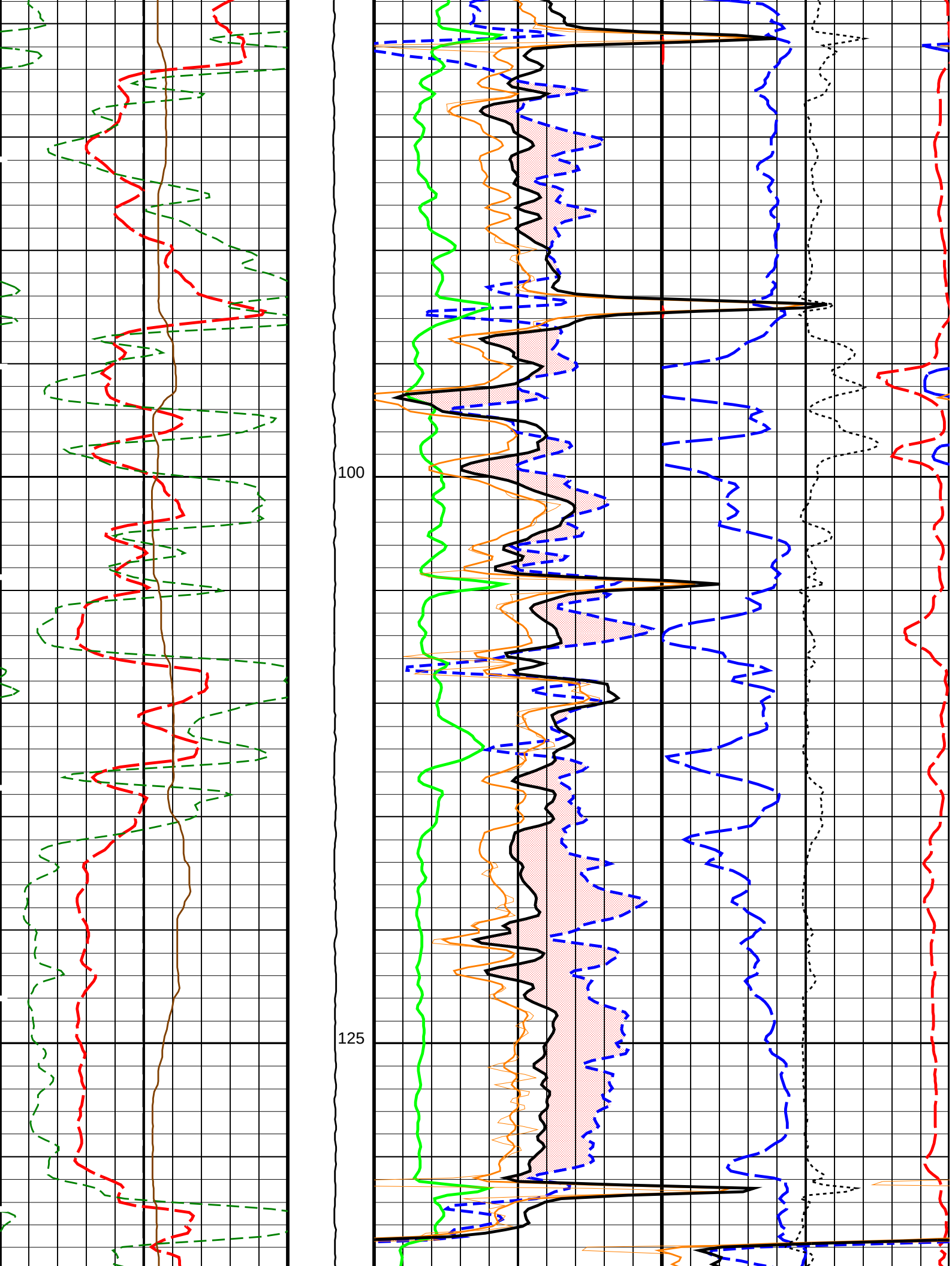
Bit Size (BS)
0 (IN) 20

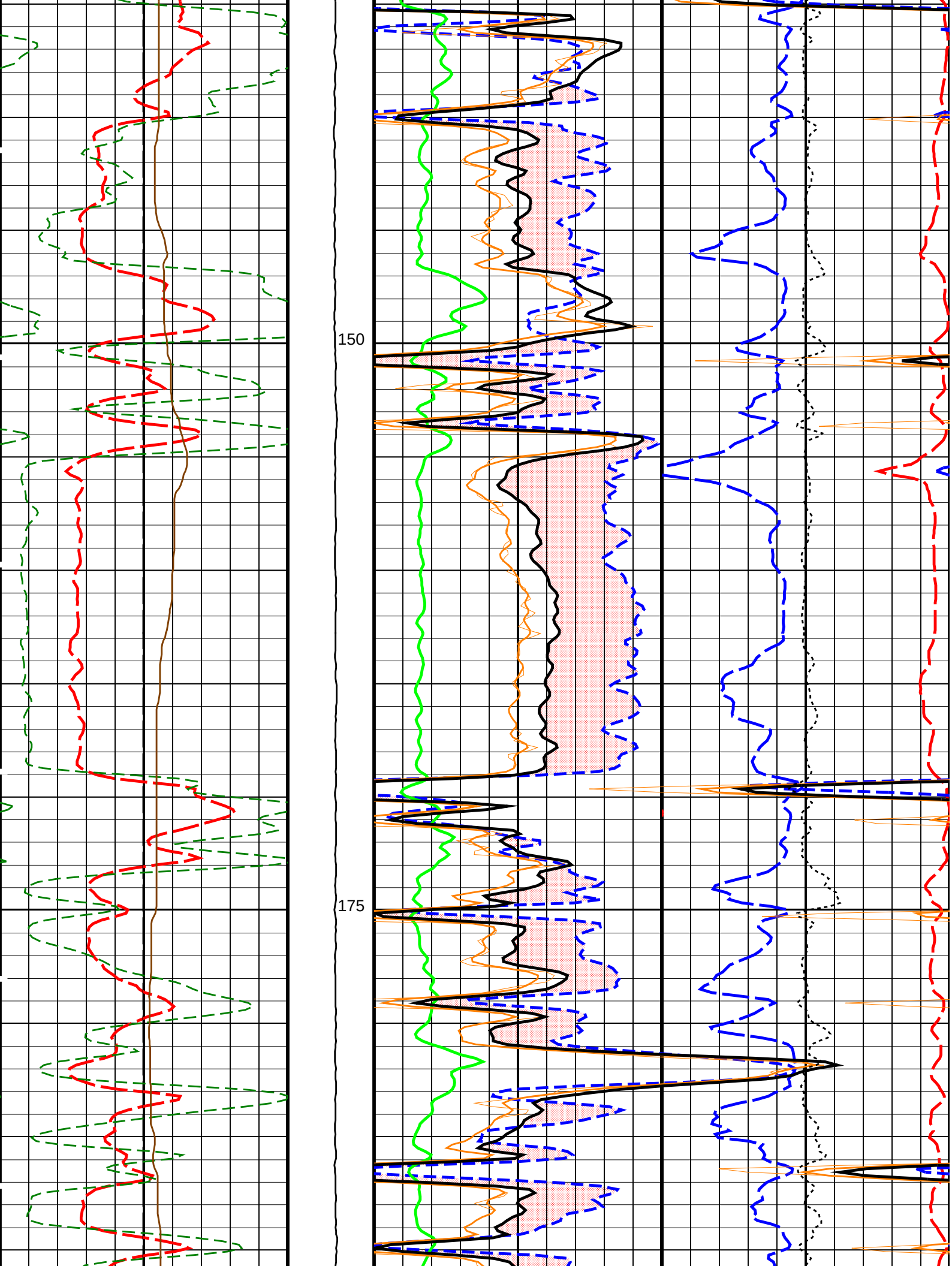
Tension (TENS) (LBF)
0 5000

APS Near/Array Corrected Limestone Porosity (APLC)
45 (PU) −15




25
50
75
Pipe
LR APS
LR Density
LR Cali


100
125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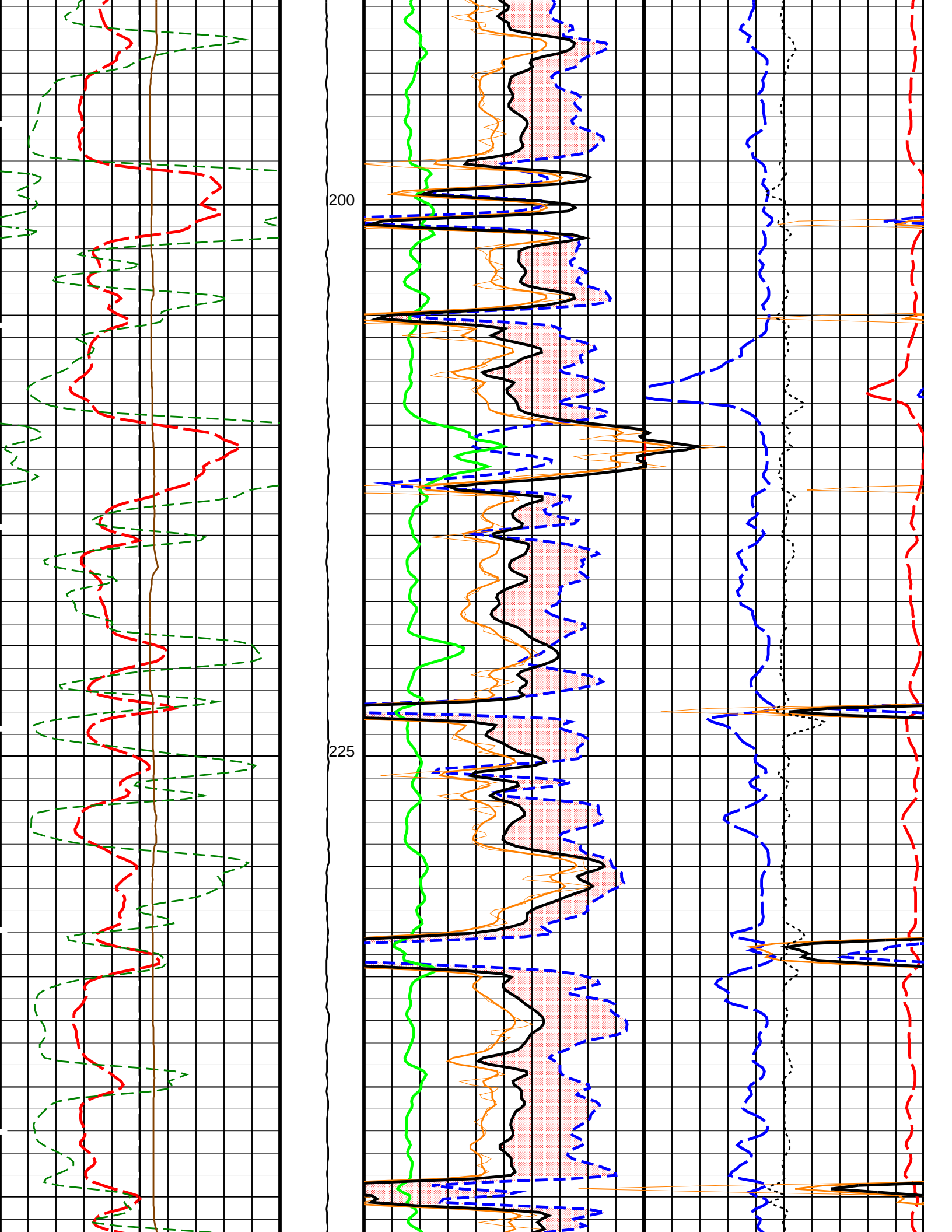
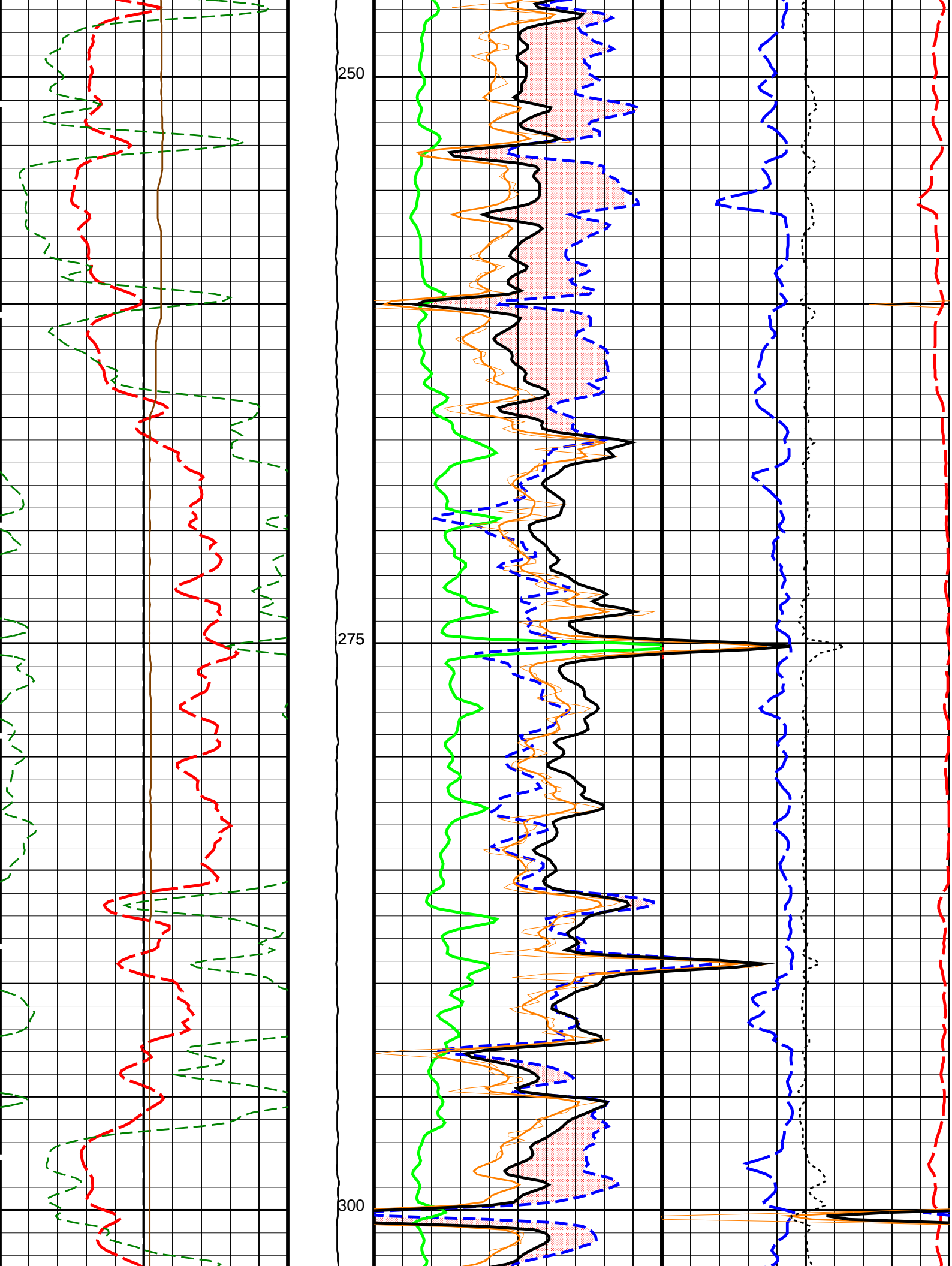
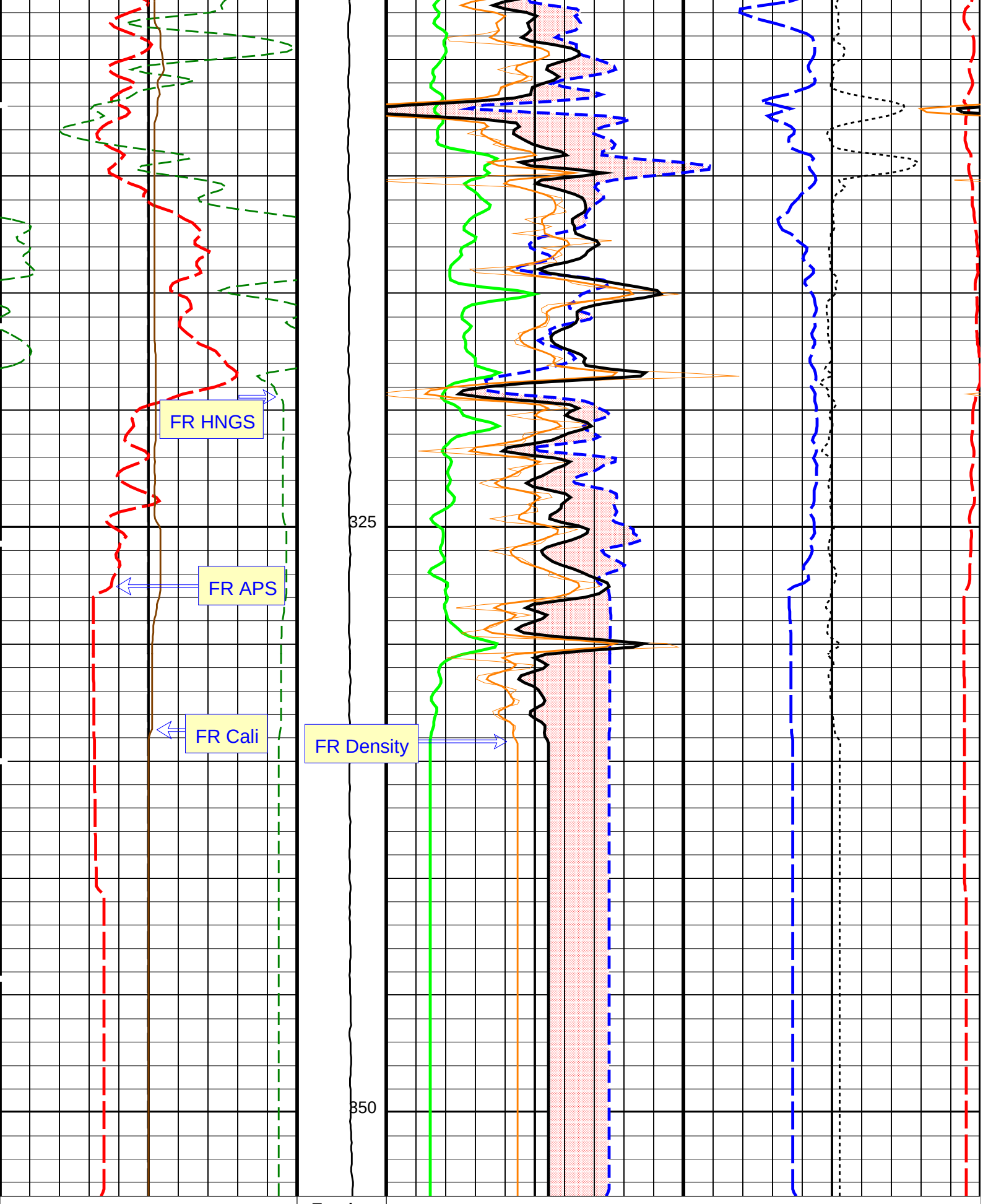
175


200
225


250
275
300



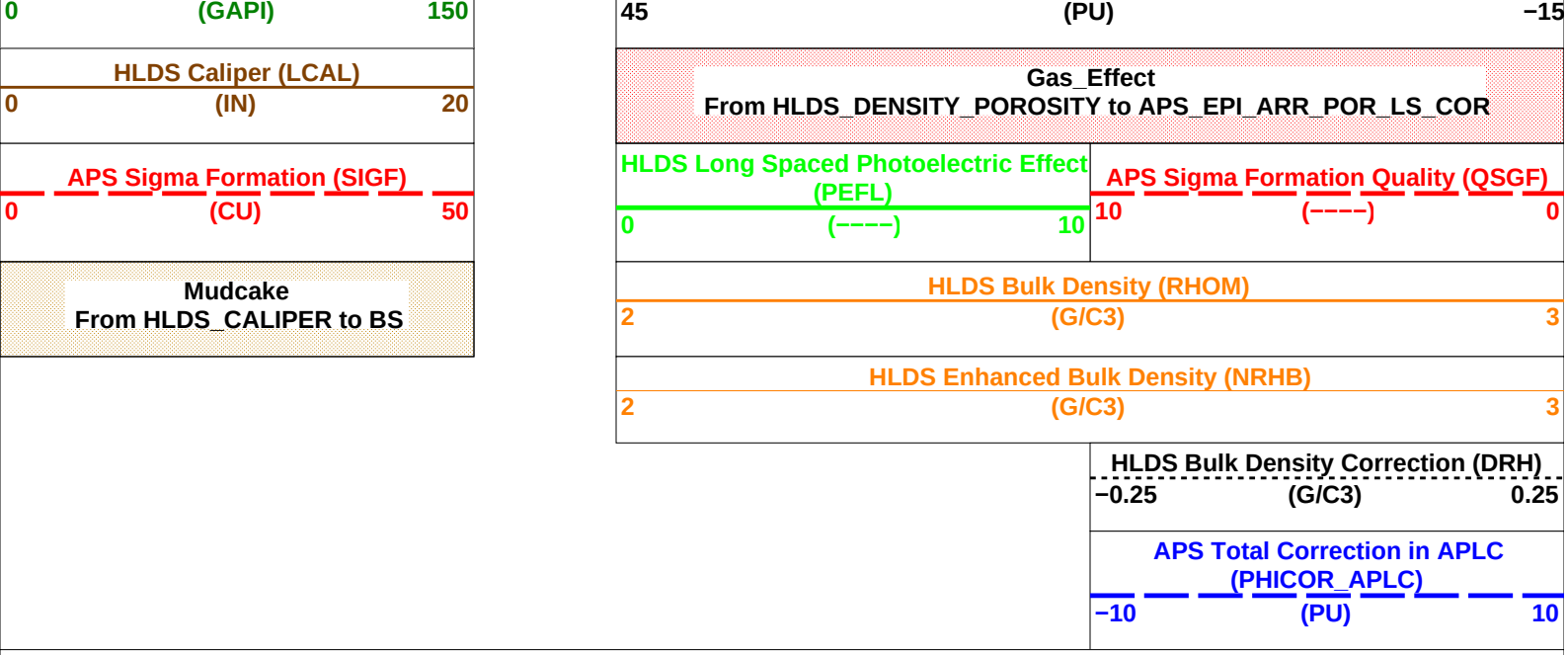
Bit Size (BS)
0 (IN) 20

Tension (TENS) (LBF)
0 5000

APS Near/Array Corrected Limestone Porosity (APLC)
45 (PU) −15

Total Gamma ray (HSGR)

HLDS Density Porosity (DPO)



PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	HRLT−B: High Resolution Laterolog Array − B		
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	9	DEGC
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	−2	DEGC
	HLDS: Hostile Litho−Density Sonde		
DHC	Density Hole Correction	CALIPER	
DPPM	Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1	G/C3
LATC	HLDS Activation Correction	ON	
MDEN	Matrix Density	2.71	G/C3
	APS−C: Accelerator−Porosity Tool		
	APS Software Version	0	
AASD	APS Thermal and Array Detectors High Voltage Setting	1965.68	V
ADSO	APS Array Detectors Data Source Switch	Both	
AFSD	APS Far Detector High Voltage Setting	2079.93	V
AHCS	APS Holesize Correction Source	GCSE	
AHSS	APS Holesize Correction Switch	ON	
AMTY	APS Environmental Corrections Mud Type	WaterBaseBarite	
ANSD	APS Near Detector High Voltage Setting	1734.69	V
ASOS	APS Standoff Correction Switch	ON	
ATSS	APS Temperature−Pressure−Salinity Correction Switch	ON	
BHFL_APS	APS TNPH Borehole Fluid Type	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	9	DEGC
BSCO_APS	APS TNPH Borehole Salinity Correction Option	YES	
DPPM	Density Porosity Processing Mode	HIRS	
DSCO_APS	APS TNPH Density Source Correction Option	COMPUTED	
FSAL	Formation Salinity	−50000	PPM
FSCO_APS	APS TNPH Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HSCO_APS	APS TNPH Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO_APS	APS TNPH Mud Cake Correction Option	YES	
MCOR_APS	APS TNPH Mud Correction	NATU	
MWCO_APS	APS TNPH Mud Weight Correction Option	YES	
NARC	APS Near/Array Calibration Ratio	1.06544	
NFRC	APS Near/Far Calibration Ratio	0.887792	
PTCO_APS	APS TNPH Pressure/Temperature Correction Option	YES	
SHT	Surface Hole Temperature	−2	DEGC
TNCO_APS	APS TNPH Computation Option	NO	

TNCO_APS	APS TNPH Computation Option	NO	
	HNGS−BA: Hostile Natural Gamma Ray Sonde		
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	9	DEGC
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
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	−0.00186494	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	−999.25	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	−999.25	CPS
SGRC	HNGS Standard Gamma−Ray Correction Flag	YES	
SHT	Surface Hole Temperature	−2	DEGC
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.01327	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.00569	
	EDTC−B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	9	DEGC
DPPM	Density Porosity Processing Mode	HIRS	
FSAL	Formation Salinity	−50000	PPM
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	−2	DEGC
	System and Miscellaneous		
BS	Bit Size	9.875	IN
BSAL	Borehole Salinity	−50000.00	PPM
CSIZ	Current Casing Size	7.000	IN
CWEI	Casing Weight	168.00	LB/F
DFD	Drilling Fluid Density	1.05	G/C3
DO	Depth Offset for Playback	−231.5	M
FLEV	Fluid Level	−50000.00	M
PP	Playback Processing	NORMAL	
TD	Total Depth	589.5	M

Format: HLDSAPS Vertical Scale: 1:200 Graphics File Created: 24−Aug−2012 18:52

OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
HLDS	19C0−187	LDSC−B	19C0−187
APS−C	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	SKK−5169−EDTCB

Input DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_019LUP	FN:22	PRODUCER	21−Aug−2012 19:43	585.2 M	224.2 M

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_039PUP	FN:46	PRODUCER	24−Aug−2012 18:52
CLIENT	MSS_LDEO_HRLA_LDL_039PUC	FN:47	CUSTOMER	24−Aug−2012 18:52

Schlumberger

Repeat Section

MAXIS Field Log

Company: Lamont Doherty Earth Observatory — **Well: Expedition 344S, U0080A (USC80)**

Input DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_018LUP	FN:20	PRODUCER	21−Aug−2012 19:13	585.2 M	461.8 M

Output DLIS Files

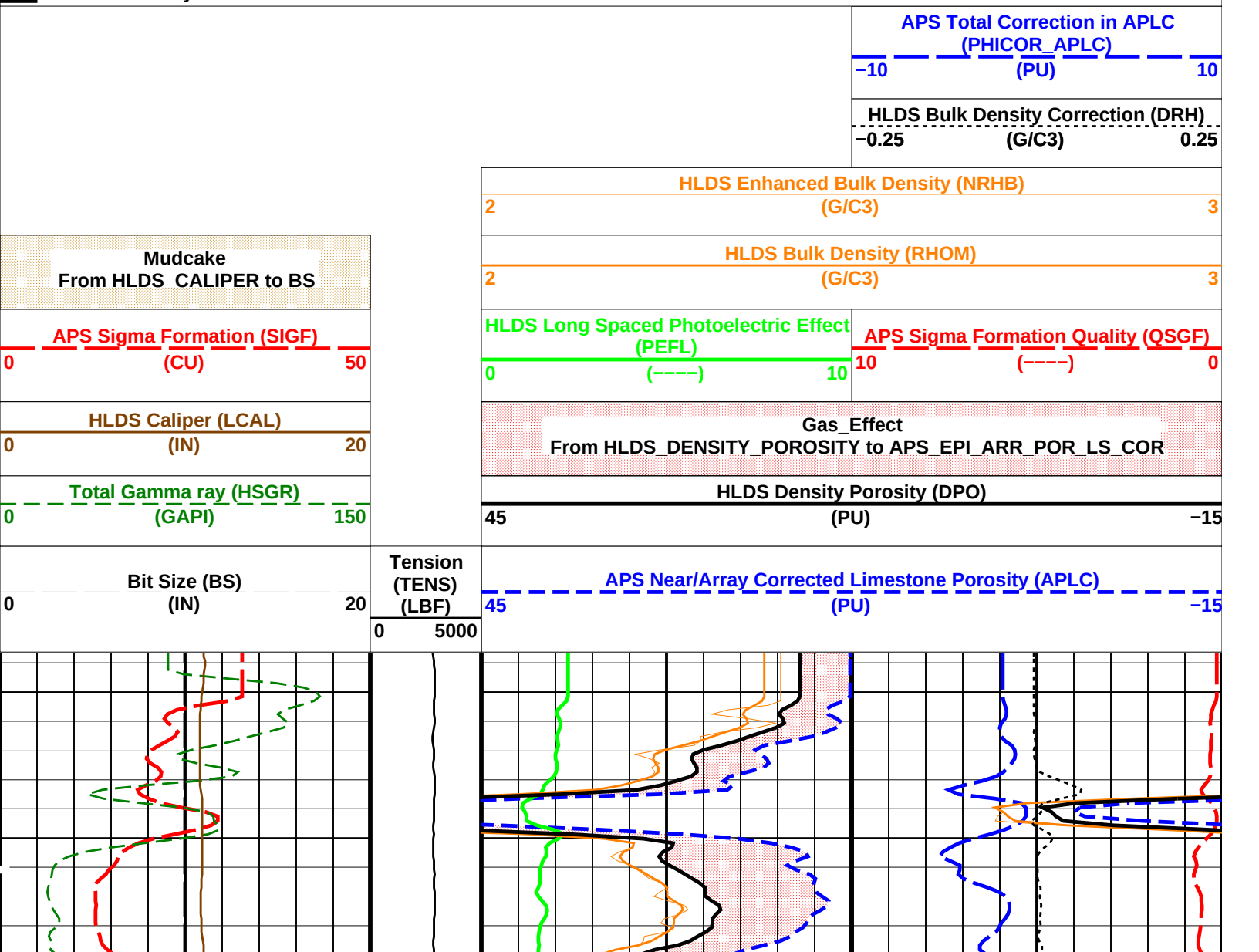
DEFAULT	MSS_LDEO_HRLA_LDL_040PUP	FN:48	PRODUCER	24−Aug−2012 19:00	353.6 M	228.6 M
CLIENT	MSS_LDEO_HRLA_LDL_040PUC	FN:49	CUSTOMER	24−Aug−2012 19:00	353.6 M	228.6 M

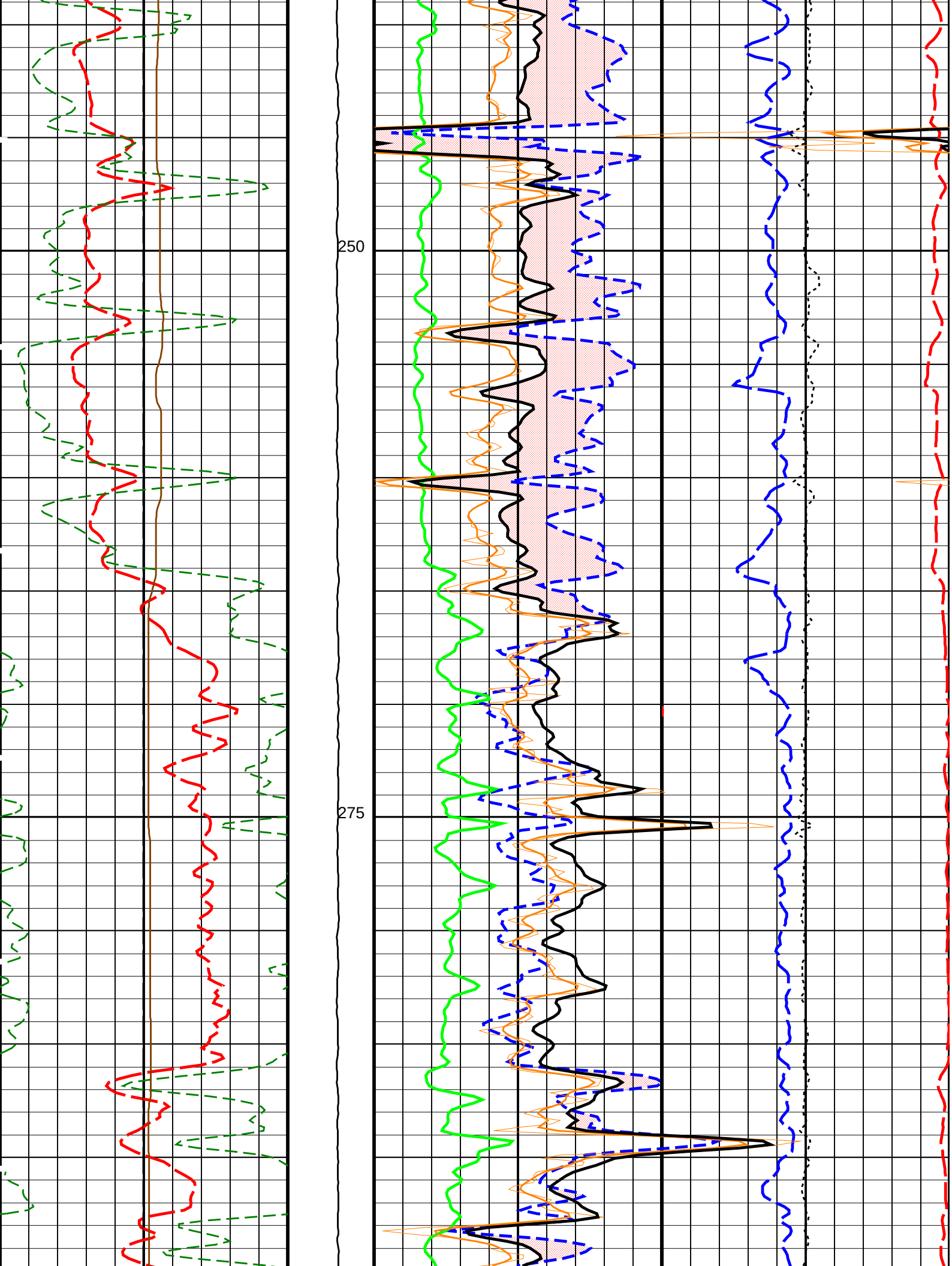
OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
HLDS	19C0−187	LDSC−B	19C0−187
APS−C	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	SKK−5169−EDTCB

PIP SUMMARY

Time Mark Every 60 S

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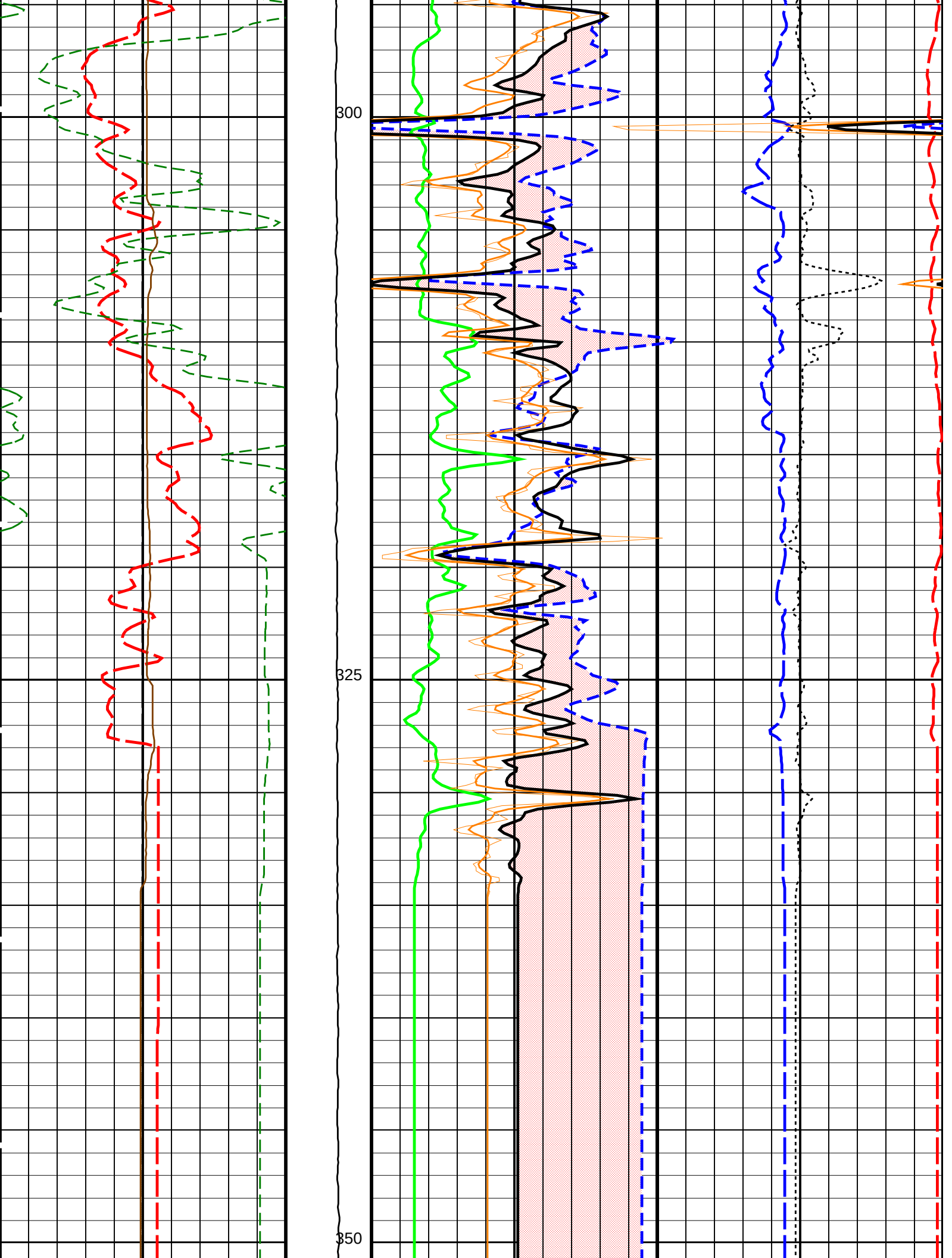
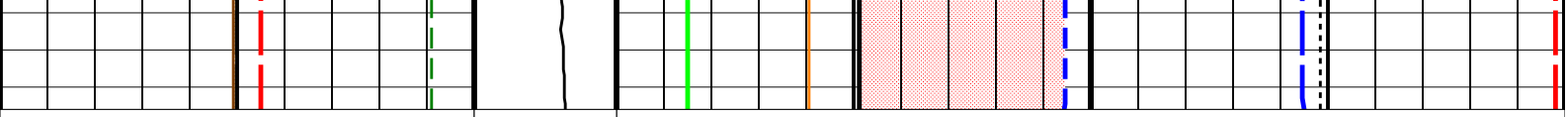

300
325
350



Bit Size (BS) (IN) 0 20

Tension (TENS) (LBF) 0 5000

APS Near/Array Corrected Limestone Porosity (APLC) 45 (PU) −15

Total Gamma ray (HSGR) 0 (GAPI) 150

HLDS Density Porosity (DPO) 45 (PU) −15

HLDS Caliper (LCAL) 0 (IN) 20

Gas_Effect
From HLDS_DENSITY_POROSITY to APS_EPI_ARR_POR_LS_COR

APS Sigma Formation (SIGF) 0 (CU) 50

HLDS Long Spaced Photoelectric Effect (PEFL) 0 (−−−−) 10

APS Sigma Formation Quality (QSGF) 10 (−−−−) 0

Mudcake
From HLDS_CALIPER to BS

HLDS Bulk Density (RHOM) 2 (G/C3) 3

HLDS Enhanced Bulk Density (NRHB) 2 (G/C3) 3

HLDS Bulk Density Correction (DRH) −0.25 (G/C3) 0.25

APS Total Correction in APLC (PHICOR_APLC) −10 (PU) 10

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	HRLT−B: High Resolution Laterolog Array − B		
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	9	DEGC
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	−2	DEGC
	HLDS: Hostile Litho−Density Sonde		
DHC	Density Hole Correction	CALIPER	
DPPM	Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1	G/C3
LATC	HLDS Activation Correction	ON	
MDEN	Matrix Density	2.71	G/C3
	APS−C: Accelerator−Porosity Tool		
	APS Software Version	0	
AASD	APS Thermal and Array Detectors High Voltage Setting	1965.68	V
ADSO	APS Array Detectors Data Source Switch	Both	
AFSD	APS Far Detector High Voltage Setting	2079.93	V
AHCS	APS Holesize Correction Source	GCSE	
AHSS	APS Holesize Correction Switch	ON	
AMTY	APS Environmental Corrections Mud Type	WaterBaseBarite	
ANSD	APS Near Detector High Voltage Setting	1734.69	V
ASOS	APS Standoff Correction Switch	ON	
ATSS	APS Temperature−Pressure−Salinity Correction Switch	ON	
BHFL_APS	APS TNPH Borehole Fluid Type	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	9	DEGC
BSCO_APS	APS TNPH Borehole Salinity Correction Option	YES	
DPPM	Density Porosity Processing Mode	HIRS	
DSCO_APS	APS TNPH Density Source Correction Option	COMPUTED	
FSAL	Formation Salinity	−50000	PPM
FSCO_APS	APS TNPH Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M

GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HSCO_APS	APS TNPH Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO_APS	APS TNPH Mud Cake Correction Option	YES	
MCOR_APS	APS TNPH Mud Correction	NATU	
MWCO_APS	APS TNPH Mud Weight Correction Option	YES	
NARC	APS Near/Array Calibration Ratio	1.06544	
NFRC	APS Near/Far Calibration Ratio	0.887792	
PTCO_APS	APS TNPH Pressure/Temperature Correction Option	YES	
SHT	Surface Hole Temperature	−2	DEGC
TNCO_APS	APS TNPH Computation Option	NO	
HNGS−BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	9	DEGC
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
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	−0.00186494	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	−999.25	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	−999.25	CPS
SGRC	HNGS Standard Gamma−Ray Correction Flag	YES	
SHT	Surface Hole Temperature	−2	DEGC
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.01327	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.00569	
EDTC−B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	9	DEGC
DPPM	Density Porosity Processing Mode	HIRS	
FSAL	Formation Salinity	−50000	PPM
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	−2	DEGC
System and Miscellaneous			
BS	Bit Size	9.875	IN
BSAL	Borehole Salinity	−50000.00	PPM
CSIZ	Current Casing Size	7.000	IN
CWEI	Casing Weight	168.00	LB/F
DFD	Drilling Fluid Density	1.05	G/C3
DO	Depth Offset for Playback	−231.5	M
FLEV	Fluid Level	−50000.00	M
PP	Playback Processing	NORMAL	
TD	Total Depth	589.5	M

Format: HLDSAPS **Vertical Scale: 1:200** **Graphics File Created: 24−Aug−2012 19:00**

OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
HLDS	19C0−187	LDSC−B	19C0−187
APS−C	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	SKK−5169−EDTCB

Input DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_018LUP	FN:20	PRODUCER	21−Aug−2012 19:13	585.2 M	461.8 M

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_040PUP	FN:48	PRODUCER	24−Aug−2012 19:00	
CLIENT	MSS_LDEO_HRLA_LDL_040PUC	FN:49	CUSTOMER	24−Aug−2012 19:00	

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Downlog

MAXIS Field Log

Company: Lamont Doherty Earth Observatory **Well: Expedition 344S, U0080A (USC80)**

Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_047PUP	PRODUCER	24−Aug−2012 19:26	354.0 M	−49.5 M

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_048PUP	FN:60	PRODUCER	24−Aug−2012 19:27	354.0 M	−49.5 M
CLIENT	MSS_LDEO_HRLA_LDL_048PUC	FN:61	CUSTOMER	24−Aug−2012 19:27	354.0 M	−49.5 M

OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
HLDS	19C0−187	LDSC−B	19C0−187
APS−C	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	SKK−5169−EDTCB

PIP SUMMARY

Time Mark Every 60 S

APS Total Correction in APLC (PHICOR_APLC)
−10 (PU) 10

HLDS Bulk Density Correction (DRH)
−0.25 (G/C3) 0.25

HLDS Enhanced Bulk Density (NRHB)
2 (G/C3) 3

Mudcake
From HLDS_CALIPER to BS

HLDS Bulk Density (RHOM)
2 (G/C3) 3

APS Sigma Formation (SIGF)
0 (CU) 50

HLDS Long Spaced Photoelectric Effect (PEFL)
0 (−−−−) 10

APS Sigma Formation Quality (QSGF)
10 (−−−−) 0

HLDS Caliper (LCAL)
0 (IN) 20

Gas_Effect
From HLDS_DENSITY_POROSITY to APS_EPI_ARR_POR_LS_COR

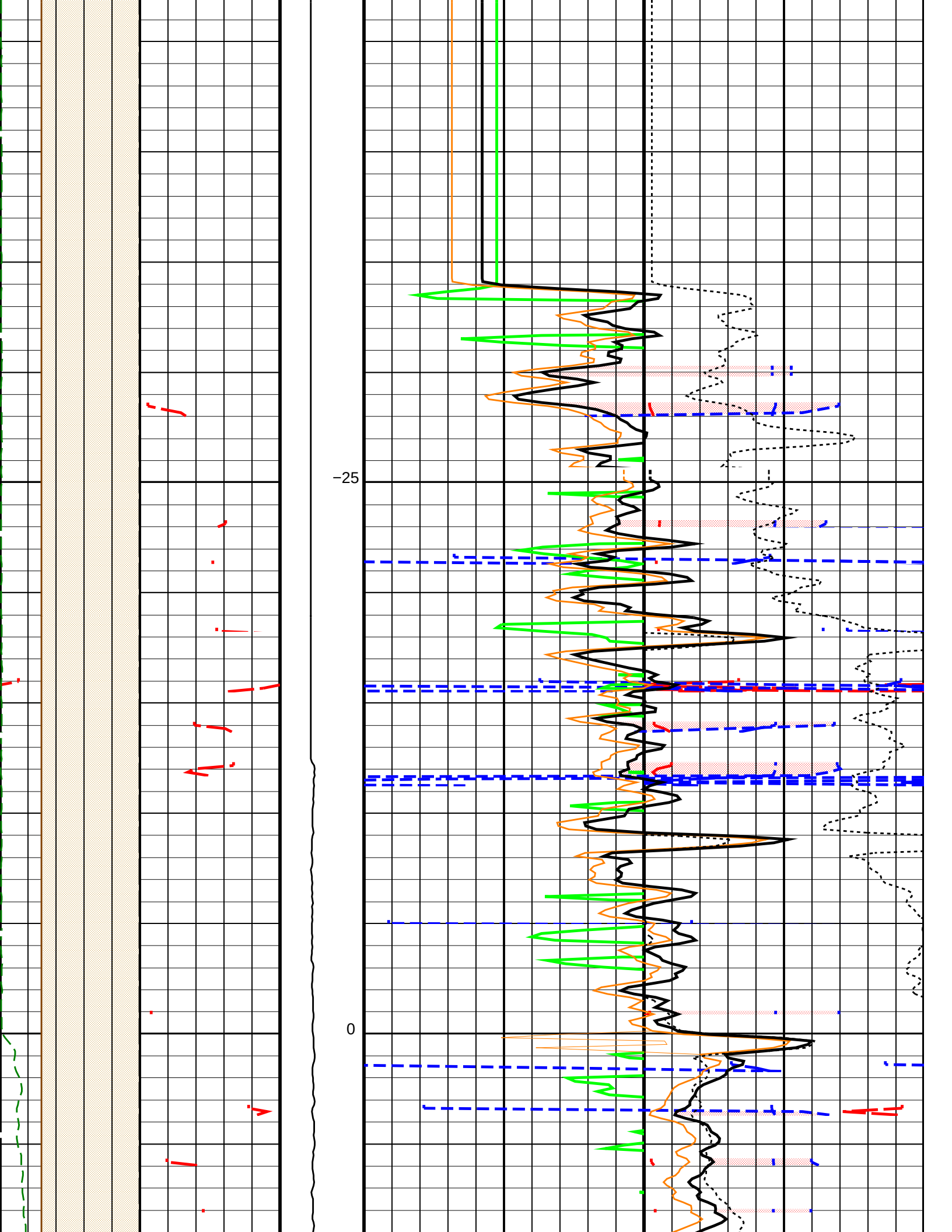
Total Gamma ray (HSGR)
0 (GAPI) 150

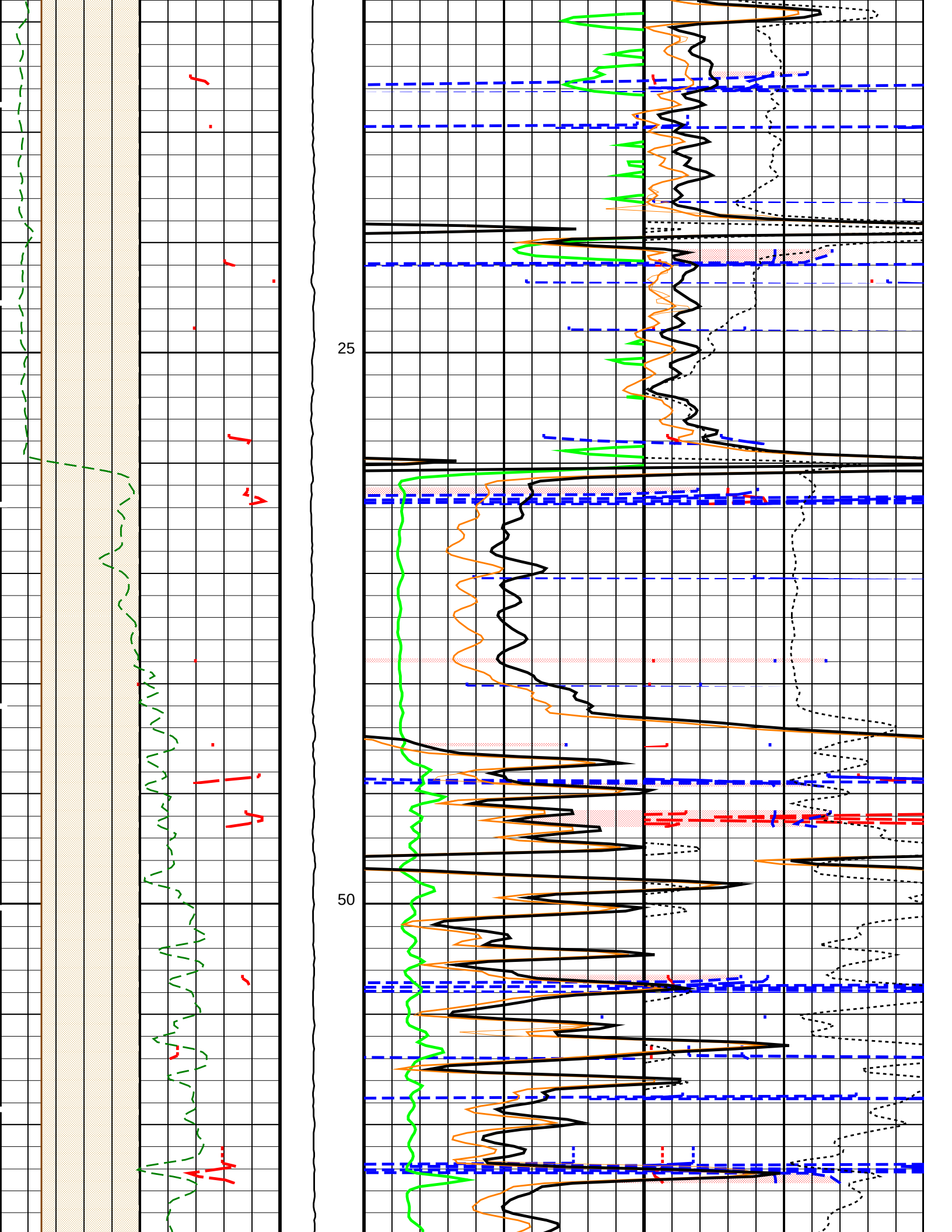
HLDS Density Porosity (DPO)
45 (PU) −15

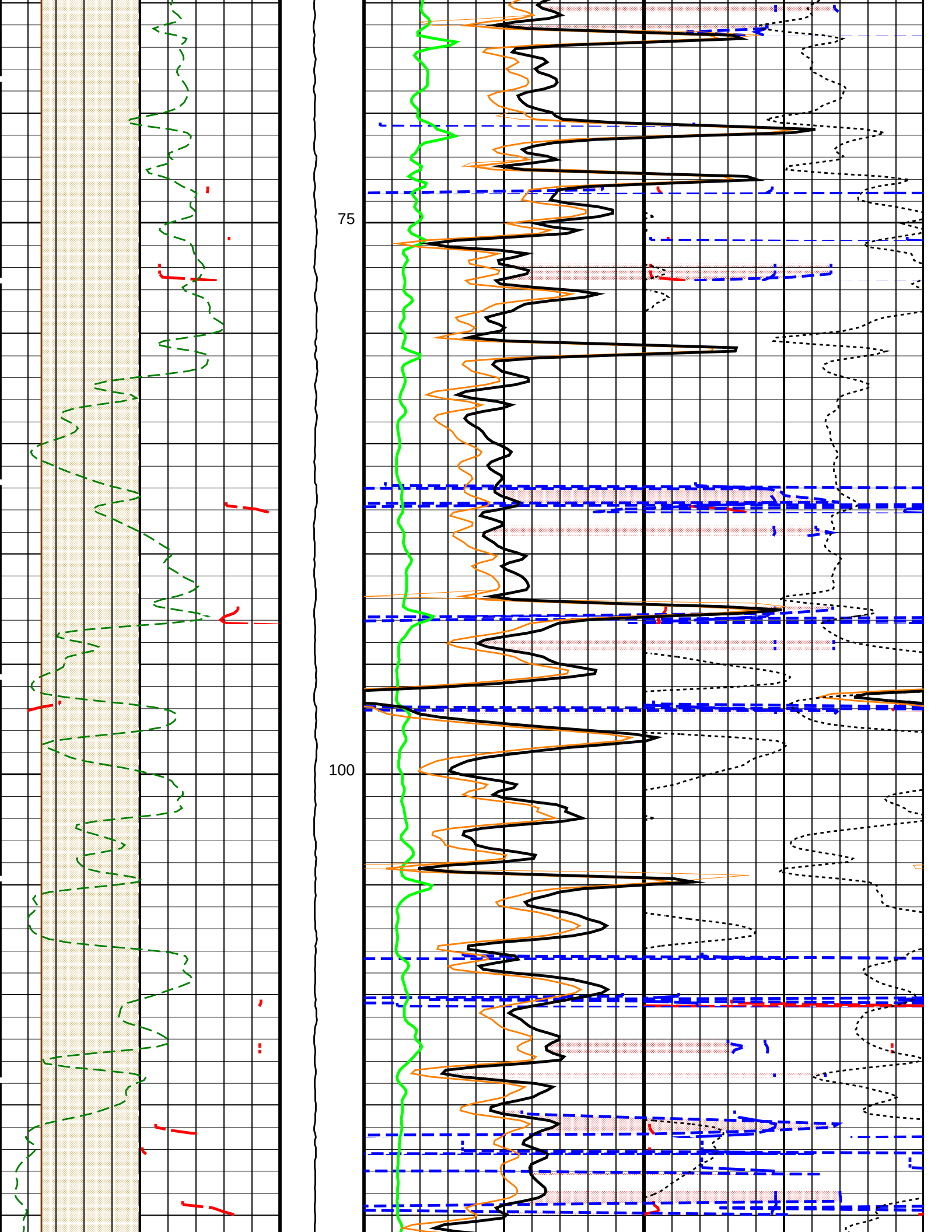
Bit Size (BS)
0 (IN) 20

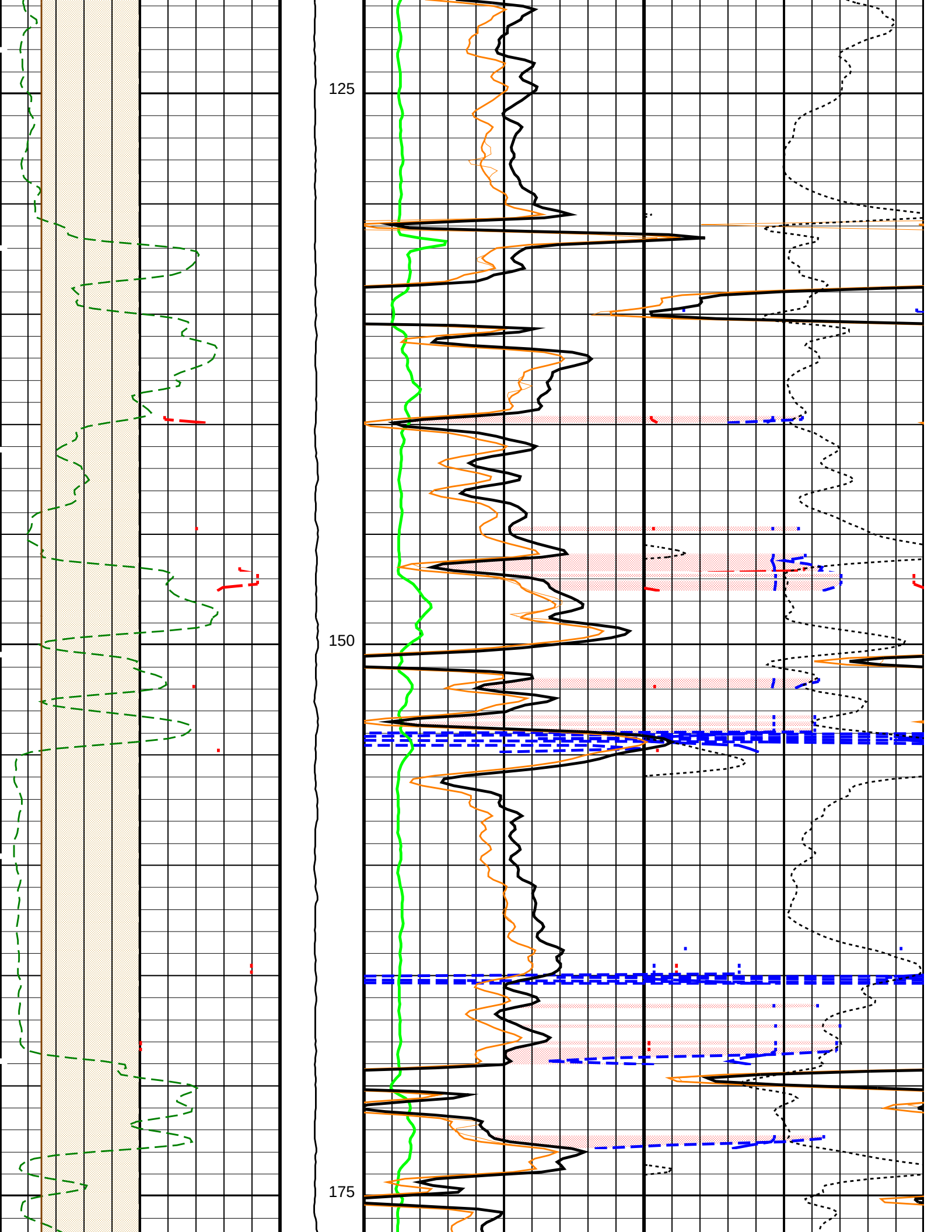
Tension (TENS) (LBF)
0 5000

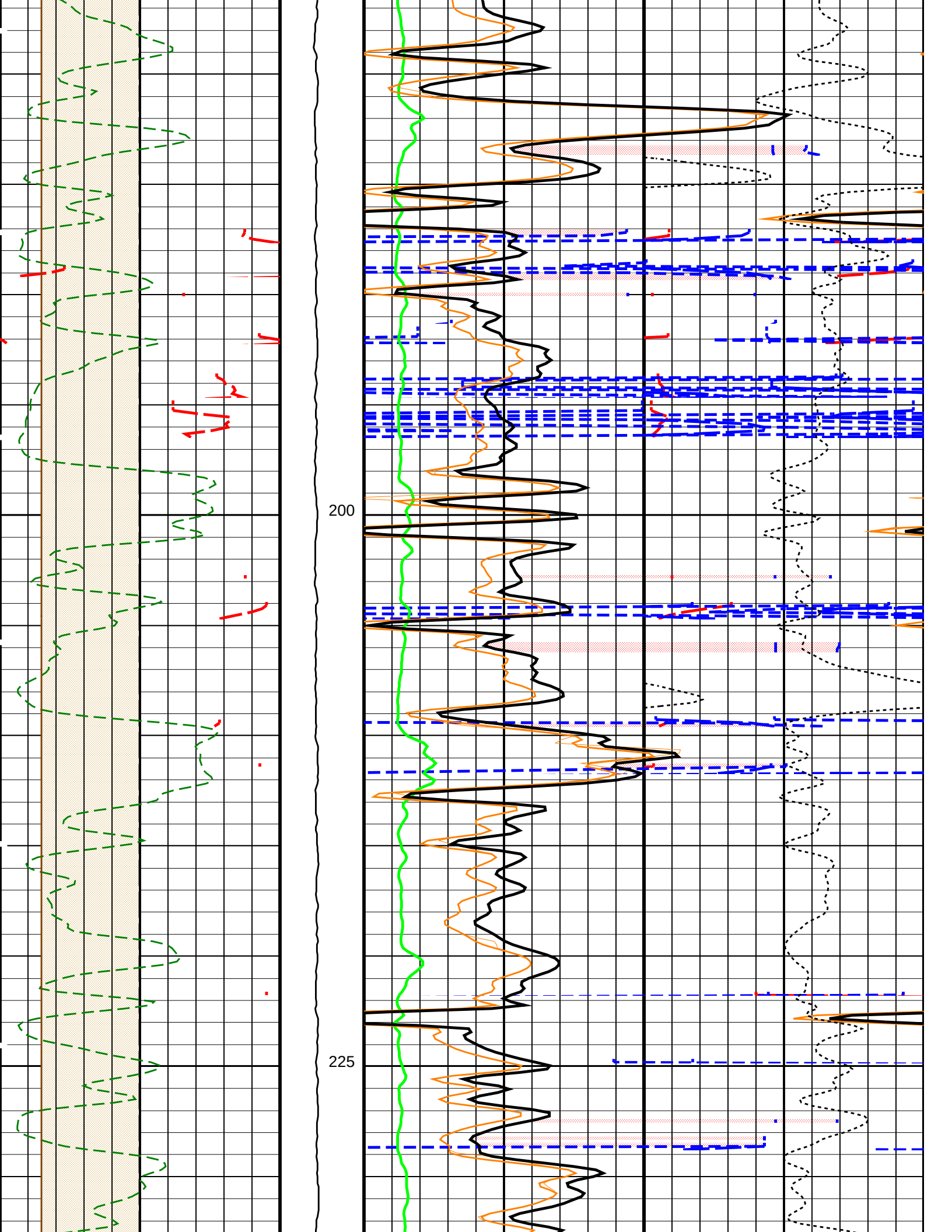
APS Near/Array Corrected Limestone Porosity (APLC)
45 (PU) −15


−25
0


25
50


75
100


125
150
175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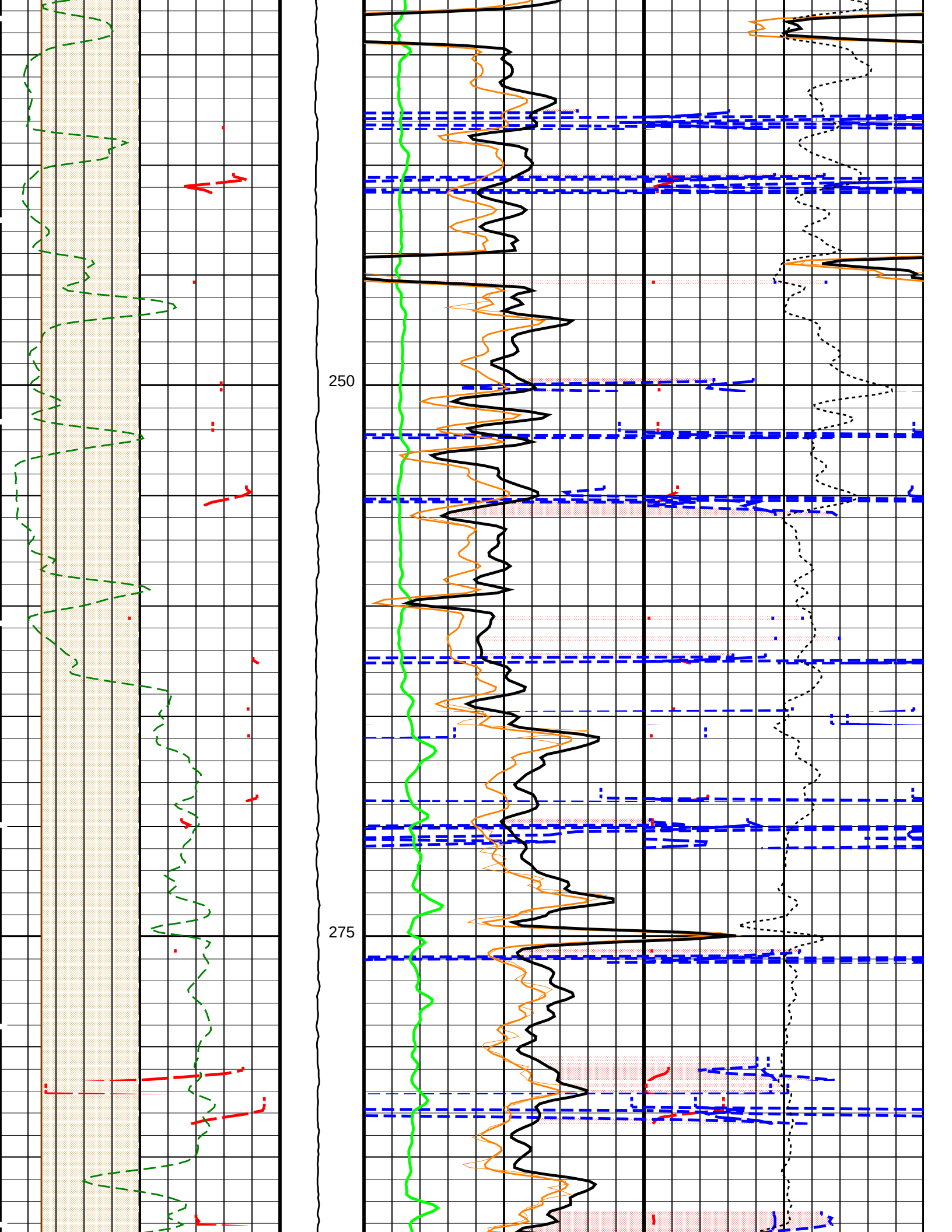
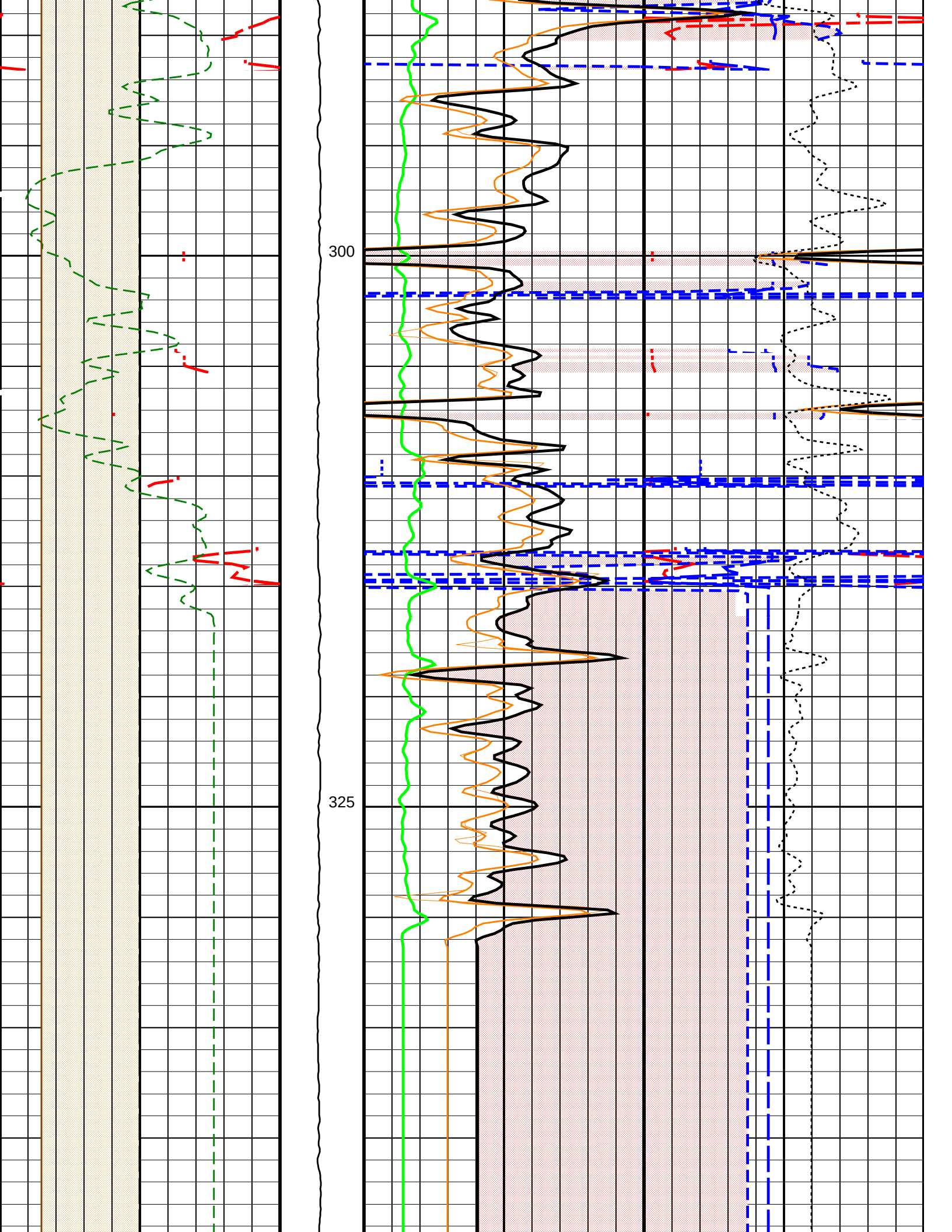
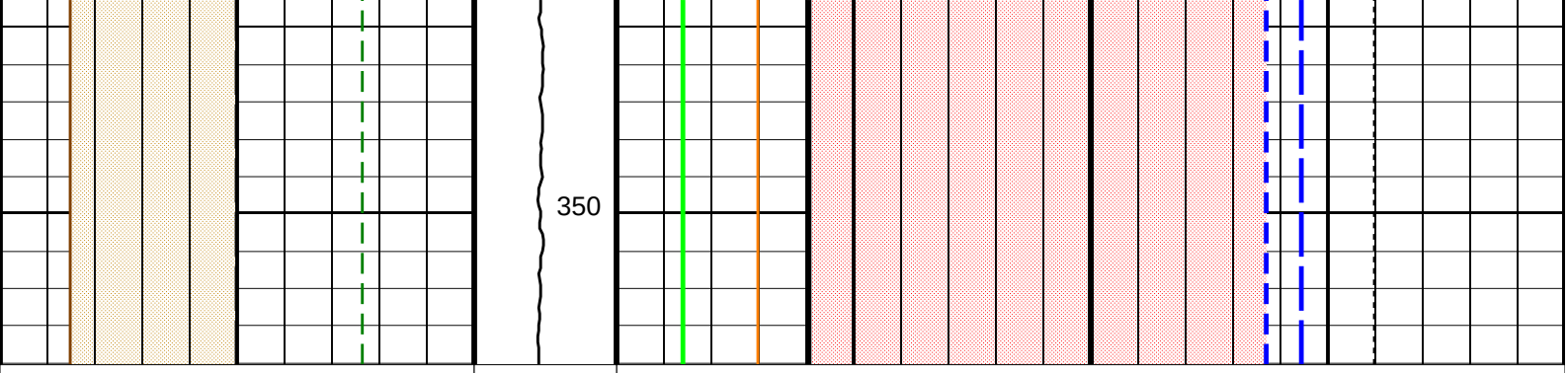
225


250
275


300
325



Bit Size (BS) (IN) 0 20

Tension (TENS) (LBF) 0 5000

APS Near/Array Corrected Limestone Porosity (APLC) 45 (PU) −15

Total Gamma ray (HSGR) 0 (GAPI) 150

HLDS Density Porosity (DPO) 45 (PU) −15

HLDS Caliper (LCAL) 0 (IN) 20

Gas_Effect
From HLDS_DENSITY_POROSITY to APS_EPI_ARR_POR_LS_COR

APS Sigma Formation (SIGF) 0 (CU) 50

HLDS Long Spaced Photoelectric Effect (PEFL) 0 (−−−−) 10

APS Sigma Formation Quality (QSGF) 10 (−−−−) 0

Mudcake
From HLDS_CALIPER to BS

HLDS Bulk Density (RHOM) 2 (G/C3) 3

HLDS Enhanced Bulk Density (NRHB) 2 (G/C3) 3

HLDS Bulk Density Correction (DRH) −0.25 (G/C3) 0.25

APS Total Correction in APLC (PHICOR_APLC) −10 (PU) 10

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	HRLT−B: High Resolution Laterolog Array − B		
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	9	DEGC
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	−2	DEGC
	HLDS: Hostile Litho−Density Sonde		
DHC	Density Hole Correction	CALIPER	
DPPM	Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1	G/C3
LATC	HLDS Activation Correction	ON	
MDEN	Matrix Density	2.71	G/C3
	APS−C: Accelerator−Porosity Tool		
	APS Software Version	5	
AASD	APS Thermal and Array Detectors High Voltage Setting	1965.68	V
ADSO	APS Array Detectors Data Source Switch	Both	
AFSD	APS Far Detector High Voltage Setting	2079.93	V
AHCS	APS Holesize Correction Source	GCSE	
AHSS	APS Holesize Correction Switch	ON	
AMTY	APS Environmental Corrections Mud Type	WaterBaseBarite	
ANSD	APS Near Detector High Voltage Setting	1734.69	V
ASOS	APS Standoff Correction Switch	ON	
ATSS	APS Temperature−Pressure−Salinity Correction Switch	ON	
BHFL_APS	APS TNPH Borehole Fluid Type	WATER	

BHFL_APS	APS TNPH Borehole Fluid Type	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	9	DEGC
BSCO_APS	APS TNPH Borehole Salinity Correction Option	YES	
DPPM	Density Porosity Processing Mode	HIRS	
DSCO_APS	APS TNPH Density Source Correction Option	COMPUTED	
FSAL	Formation Salinity	−50000	PPM
FSCO_APS	APS TNPH Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HSCO_APS	APS TNPH Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO_APS	APS TNPH Mud Cake Correction Option	YES	
MCOR_APS	APS TNPH Mud Correction	NATU	
MWCO_APS	APS TNPH Mud Weight Correction Option	YES	
NARC	APS Near/Array Calibration Ratio	1.06544	
NFRC	APS Near/Far Calibration Ratio	0.887792	
PTCO_APS	APS TNPH Pressure/Temperature Correction Option	YES	
SHT	Surface Hole Temperature	−2	DEGC
TNCO_APS	APS TNPH Computation Option	NO	
HNGS−BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	9	DEGC
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
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	−0.00186494	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	−999.25	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	−999.25	CPS
SGRC	HNGS Standard Gamma−Ray Correction Flag	YES	
SHT	Surface Hole Temperature	−2	DEGC
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.01327	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.00569	
EDTC−B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	9	DEGC
DPPM	Density Porosity Processing Mode	HIRS	
FSAL	Formation Salinity	−50000	PPM
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	−2	DEGC
System and Miscellaneous			
BS	Bit Size	9.875	IN
BSAL	Borehole Salinity	−50000.00	PPM
CSIZ	Current Casing Size	7.000	IN
CWEI	Casing Weight	168.00	LB/F
DFD	Drilling Fluid Density	1.05	G/C3
DO	Depth Offset for Playback	0.0	M
FLEV	Fluid Level	−50000.00	M
PP	Playback Processing	OFF	
TD	Total Depth	589.5	M

Format: HLDSAPS **Vertical Scale: 1:200** **Graphics File Created: 24−Aug−2012 19:27**

OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
HLDS	19C0−187	LDSC−B	19C0−187
APS−C	19C0−187	HNGC−B	19C0−187

HNGS−BA	**19C0−187**	**EDTC−B**	**SKK−5169−EDTCB**

Input DLIS Files

DEFAULT	**Flip_MSS_LDEO_HRLA_047PUP**	**PRODUCER**	**24−Aug−2012 19:26**	**354.0 M**	**−49.5 M**

Output DLIS Files

DEFAULT	**MSS_LDEO_HRLA_LDL_048PUP**	**FN:60**	**PRODUCER**	**24−Aug−2012 19:27**
CLIENT	**MSS_LDEO_HRLA_LDL_048PUC**	**FN:61**	**CUSTOMER**	**24−Aug−2012 19:27**

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Calibrations

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
High Resolution Laterolog Array − B Wellsite Calibration − HRLT M01							
Before: 21−Aug−2012 17:43 After: 21−Aug−2012 20:35							
HRLT M0−M1 Voltage Plus − 0	0	N/A	−319.6	−319.4	0.2041	9.681	UV
HRLT M0−M1 Voltage Plus − 1	0	N/A	−338.0	−338.2	−0.2024	9.681	UV
HRLT M0−M1 Voltage Plus − 2	0	N/A	−337.0	−337.7	−0.7527	9.681	UV
HRLT M0−M1 Voltage Plus − 3	0	N/A	−339.7	−340.4	−0.6500	9.681	UV
HRLT M0−M1 Voltage Plus − 4	0	N/A	−326.6	−327.0	−0.3691	9.681	UV
HRLT M0−M1 Voltage Plus − 5	0	N/A	−322.4	−322.8	−0.3436	9.681	UV
HRLT M0−M1 Voltage Plus − 6	0	N/A	329.6	329.5	−0.1481	9.681	UV
HRLT M0−M1 Voltage Plus − 7	0	N/A	−322.7	−322.7	0	9.681	UV
High Resolution Laterolog Array − B Wellsite Calibration − HRLT M12							
Before: 21−Aug−2012 17:43 After: 21−Aug−2012 20:35							
HRLT M1−M2 Voltage Plus − 0	0	N/A	1756	1756	−0.6158	53.42	UV
HRLT M1−M2 Voltage Plus − 1	0	N/A	1856	1857	0.9617	53.42	UV
HRLT M1−M2 Voltage Plus − 2	0	N/A	1846	1850	4.336	53.42	UV
HRLT M1−M2 Voltage Plus − 3	0	N/A	1861	1865	3.586	53.42	UV
HRLT M1−M2 Voltage Plus − 4	0	N/A	1792	1793	1.703	53.42	UV
HRLT M1−M2 Voltage Plus − 5	0	N/A	1770	1771	1.726	53.42	UV
HRLT M1−M2 Voltage Plus − 6	0	N/A	−1818	−1817	0.3804	53.42	UV
HRLT M1−M2 Voltage Plus − 7	0	N/A	1781	1781	0	53.42	UV
High Resolution Laterolog Array − B Wellsite Calibration − HRLT M23							
Before: 21−Aug−2012 17:43 After: 21−Aug−2012 20:35							
HRLT M2−M3 Voltage Plus − 0	0	N/A	1743	1741	−1.801	53.42	UV
HRLT M2−M3 Voltage Plus − 1	0	N/A	1855	1855	0.05615	53.42	UV
HRLT M2−M3 Voltage Plus − 2	0	N/A	1846	1849	3.004	53.42	UV
HRLT M2−M3 Voltage Plus − 3	0	N/A	1865	1867	2.499	53.42	UV
HRLT M2−M3 Voltage Plus − 4	0	N/A	1788	1789	0.4794	53.42	UV
HRLT M2−M3 Voltage Plus − 5	0	N/A	1767	1768	0.9688	53.42	UV
HRLT M2−M3 Voltage Plus − 6	0	N/A	−1805	−1803	1.592	53.42	UV
HRLT M2−M3 Voltage Plus − 7	0	N/A	1781	1781	0	53.42	UV
High Resolution Laterolog Array − B Wellsite Calibration − HRLT V34							
Before: 21−Aug−2012 17:43 After: 21−Aug−2012 20:35							
HRLT A3−A4 Voltage Plus − 0	0	N/A	68490	68480	−6.898	2100	UV
HRLT A3−A4 Voltage Plus − 1	0	N/A	72670	72730	55.78	2100	UV
HRLT A3−A4 Voltage Plus − 2	0	N/A	72620	72790	173.3	2100	UV
HRLT A3−A4 Voltage Plus − 3	0	N/A	73650	73790	141.9	2100	UV
HRLT A3−A4 Voltage Plus − 4	0	N/A	70590	70670	84.90	2100	UV
HRLT A3−A4 Voltage Plus − 5	0	N/A	69790	69860	67.97	2100	UV
HRLT A3−A4 Voltage Plus − 6	0	N/A	−69690	−69700	−4.336	2100	UV
HRLT A3−A4 Voltage Plus − 7	0	N/A	70000	70000	0	2100	UV

High Resolution Laterolog Array − B Wellsite Calibration − HRLT V45
Before: 21−Aug−2012 17:43 After: 21−Aug−2012 20:35

HRLT A4−A5 Voltage Plus − 0	0	N/A	68770	68770	−6.273	2100	UV
HRLT A4−A5 Voltage Plus − 1	0	N/A	73080	73130	47.55	2100	UV
HRLT A4−A5 Voltage Plus − 2	0	N/A	72990	73150	162.7	2100	UV
HRLT A4−A5 Voltage Plus − 3	0	N/A	74000	74160	158.6	2100	UV
HRLT A4−A5 Voltage Plus − 4	0	N/A	70890	70980	84.23	2100	UV
HRLT A4−A5 Voltage Plus − 5	0	N/A	70070	70140	70.54	2100	UV
HRLT A4−A5 Voltage Plus − 6	0	N/A	−70090	−70090	0.8594	2100	UV
HRLT A4−A5 Voltage Plus − 7	0	N/A	70000	70000	0	2100	UV

High Resolution Laterolog Array − B Wellsite Calibration − HRLT V56
Before: 21−Aug−2012 17:43 After: 21−Aug−2012 20:35

HRLT A5−A6 Voltage Plus − 0	0	N/A	68670	68670	1.883	2100	UV
HRLT A5−A6 Voltage Plus − 1	0	N/A	72800	72850	57.60	2100	UV
HRLT A5−A6 Voltage Plus − 2	0	N/A	72750	72920	164.3	2100	UV
HRLT A5−A6 Voltage Plus − 3	0	N/A	73780	73950	167.0	2100	UV
HRLT A5−A6 Voltage Plus − 4	0	N/A	70750	70840	94.93	2100	UV
HRLT A5−A6 Voltage Plus − 5	0	N/A	69950	70040	95.79	2100	UV
HRLT A5−A6 Voltage Plus − 6	0	N/A	−69820	−69820	−2.602	2100	UV
HRLT A5−A6 Voltage Plus − 7	0	N/A	70000	70000	0	2100	UV

High Resolution Laterolog Array − B Wellsite Calibration − HRLT VTP
Before: 21−Aug−2012 17:43 After: 21−Aug−2012 20:35

HRLT Torpedo−M0 Voltage − 0	0	N/A	−68360	−68350	8.391	2100	UV
HRLT Torpedo−M0 Voltage − 1	0	N/A	−73140	−73190	−48.68	2100	UV
HRLT Torpedo−M0 Voltage − 2	0	N/A	−73060	−73230	−169.7	2100	UV
HRLT Torpedo−M0 Voltage − 3	0	N/A	−74090	−74240	−149.0	2100	UV
HRLT Torpedo−M0 Voltage − 4	0	N/A	−70970	−71050	−78.51	2100	UV
HRLT Torpedo−M0 Voltage − 5	0	N/A	−70110	−70190	−76.04	2100	UV
HRLT Torpedo−M0 Voltage − 6	0	N/A	70100	70100	−3.305	2100	UV
HRLT Torpedo−M0 Voltage − 7	0	N/A	−70000	−70000	0	2100	UV

High Resolution Laterolog Array − B Wellsite Calibration − HRLT VBD
Before: 21−Aug−2012 17:43 After: 21−Aug−2012 20:35

HRLT Bridle#9−M0 Voltage − 0	0	N/A	−68350	−68340	11.38	2100	UV
HRLT Bridle#9−M0 Voltage − 1	0	N/A	−73100	−73170	−66.95	2100	UV
HRLT Bridle#9−M0 Voltage − 2	0	N/A	−73030	−73210	−177.5	2100	UV
HRLT Bridle#9−M0 Voltage − 3	0	N/A	−74060	−74230	−162.8	2100	UV
HRLT Bridle#9−M0 Voltage − 4	0	N/A	−70950	−71030	−87.45	2100	UV
HRLT Bridle#9−M0 Voltage − 5	0	N/A	−70110	−70190	−84.08	2100	UV
HRLT Bridle#9−M0 Voltage − 6	0	N/A	70080	70080	0.8281	2100	UV
HRLT Bridle#9−M0 Voltage − 7	0	N/A	−70000	−70000	0	2100	UV

High Resolution Laterolog Array − B Wellsite Calibration − HRLT ISO
Before: 21−Aug−2012 17:43 After: 21−Aug−2012 20:35

HRLT Source Current Plus − 0	0	N/A	284.9	284.9	−0.02887	8.520	UA
HRLT Source Current Plus − 1	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus − 2	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus − 3	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus − 4	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus − 5	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus − 6	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus − 7	0	N/A	281.1	281.1	0	8.520	UA

High Resolution Laterolog Array − B Wellsite Calibration − HRLT MV
Before: 21−Aug−2012 17:43 After: 21−Aug−2012 20:35

HRLT Vertical Voltage Pl − 0	0	N/A	−321.9	−321.5	0.4278	9.681	UV
HRLT Vertical Voltage Pl − 1	0	N/A	−332.0	−332.0	−0.006592	9.681	UV
HRLT Vertical Voltage Pl − 2	0	N/A	−330.2	−330.8	−0.5406	9.681	UV
HRLT Vertical Voltage Pl − 3	0	N/A	−331.3	−331.8	−0.4989	9.681	UV
HRLT Vertical Voltage Pl − 4	0	N/A	−316.0	−316.1	−0.08594	9.681	UV
HRLT Vertical Voltage Pl − 5	0	N/A	−327.0	−327.2	−0.1545	9.681	UV
HRLT Vertical Voltage Pl − 6	0	N/A	336.8	336.4	−0.3550	9.681	UV
HRLT Vertical Voltage Pl − 7	0	N/A	−322.7	−322.7	0	9.681	UV

Hostile Litho−Density Sonde Wellsite Calibration − Background Measurement
Master: 3−Aug−2012 12:38 Before: 21−Aug−2012 17:46 After: 21−Aug−2012 20:59

SS Cs Resolution Bkg	9.000	7.952	8.041	7.929	−0.1112	1.800	%
LS Cs Resolution Bkg	9.000	8.109	8.122	8.094	−0.02860	1.800	%
LSW1 Background	100.0	71.68	71.83	71.86	0.02771	3.000	CPS
LSW2 Background	100.0	68.54	66.87	67.12	0.2519	3.000	CPS
LSW3 Background	200.0	146.7	147.7	146.2	−1.504	6.000	CPS
LSW4 Background	250.0	177.8	177.9	178.8	0.8978	7.500	CPS
LSW5 Background	600.0	409.7	409.1	409.8	0.7755	18.00	CPS
SSW1 Background	100.0	81.22	80.95	80.92	−0.03426	3.000	CPS
SSW2 Background	200.0	145.7	142.7	143.5	0.8675	6.000	CPS
SSW3 Background	500.0	389.5	386.1	386.2	0.1094	15.00	CPS
SSW4 Background	270.0	200.9	202.5	201.8	−0.7112	8.100	CPS
SSW5 Background	200.0	146.3	145.8	144.3	−1.516	6.000	CPS

Hostile Litho−Density Sonde Wellsite Calibration − Aluminum Measurement
Master: 3−Aug−2012 13:08

LSW1 Aluminum	600.0	531.2	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	759.6	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	924.3	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	467.3	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	427.7	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	2539	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	6810	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	9419	N/A	N/A	N/A	N/A	CPS
SSW4 Aluminum	5000	3830	N/A	N/A	N/A	N/A	CPS
SSW5 Aluminum	660.0	469.0	N/A	N/A	N/A	N/A	CPS

Hostile Litho−Density Sonde Wellsite Calibration − Lithology Measurement
Master: 3−Aug−2012 13:03

LSW1 Iron	400.0	367.3	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	618.0	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	815.0	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	424.5	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	392.6	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1845	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	5678	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	8586	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	3500	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	417.1	N/A	N/A	N/A	N/A	CPS

Hostile Litho−Density Sonde Wellsite Calibration − Caliper Calibration
Before: 3−Aug−2012 13:28

HLDS Caliper Small Ring	12.00	N/A	15.62	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	15.19	N/A	19.44	N/A	N/A	N/A	IN

Accelerator−Porosity Tool Wellsite Calibration − Detector Background
Master: 26−Jul−2012 12:44 Before: 21−Aug−2012 17:50 After: 21−Aug−2012 20:56

Near Det Bkg Cntrate	30.00	32.40	31.99	30.83	−1.151	N/A	CPS
Far Det Bkg Cntrate	30.00	33.26	33.21	33.08	−0.1335	N/A	CPS
Array−1 Det Bkg Cntrate	30.00	29.98	29.85	28.78	−1.068	N/A	CPS
Array−2 Det Bkg Cntrate	30.00	29.00	29.26	29.63	0.3670	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	32.46	30.67	33.62	2.949	N/A	CPS

Accelerator−Porosity Tool Wellsite Calibration − Calibration Ratios
Master: 26−Jul−2012 12:45

Near/Far Calibration Ratio	0.9250	0.8878	N/A	N/A	N/A	N/A	
Near/Array Calibration Ratio	1.030	1.065	N/A	N/A	N/A	N/A	
Near/Array Cal Ratio Up/Down	1.000	1.018	N/A	N/A	N/A	N/A	

Accelerator−Porosity Tool Wellsite Calibration − Tank Check
Master: 26−Jul−2012 12:45

Array−1 Standoff Porosity	11.75	10.57	N/A	N/A	N/A	N/A	PU
Array−2 Standoff Porosity	11.75	10.16	N/A	N/A	N/A	N/A	PU
Average Slowing Down Time	6.000	6.071	N/A	N/A	N/A	N/A	US
Array−1 SDT Ratio Up/Down	1.000	0.9785	N/A	N/A	N/A	N/A	
Array−2 SDT Ratio Up/Down	1.000	0.9681	N/A	N/A	N/A	N/A	
Sigma Formation	27.50	28.31	N/A	N/A	N/A	N/A	CU

Accelerator−Porosity Tool Wellsite Calibration − CCR7 signal boxes
Master: 26−Jul−2012 12:07

Near Detector Plateau Setting	1650	1735	N/A	N/A	N/A	N/A	V
Far Detector Plateau Setting	2000	2080	N/A	N/A	N/A	N/A	V
Array Detector Plateau Setting	2000	1966	N/A	N/A	N/A	N/A	V

Hostile Natural Gamma Ray Sonde Wellsite Calibration − Detector 1 Check
Master: 15−Jul−2012 1:37 Before: 21−Aug−2012 17:48 After: 21−Aug−2012 21:00

Na 511 Peak Loc	40.00	39.55	39.72	39.70	−0.01978	1.000	
Na 511 Peak Res	15.50	15.74	15.19	14.31	−0.8807	2.000	%
High Voltage	1150	1192	1137	1140	3.181	N/A	V
Na 1785 Peak Loc	142.6	141.9	142.9	142.4	−0.5346	7.000	
Na 1785 Peak Res	8.500	8.399	8.027	8.850	0.8229	2.000	%
Temperature	15.50	30.02	10.49	10.59	0.09754	N/A	DEGC
Na Count Rate	45.00	18.00	16.36	17.10	0.7449	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration − Detector 2 Check
Master: 15−Jul−2012 1:37 Before: 21−Aug−2012 17:48 After: 21−Aug−2012 21:00

Na 511 Peak Loc	40.00	39.55	39.73	39.56	−0.1735	1.000	
Na 511 Peak Res	15.50	16.74	14.78	14.73	−0.05517	2.000	%
High Voltage	1150	1112	1075	1075	−0.2274	N/A	V
Na 1785 Peak Loc	142.6	142.2	143.4	141.5	−1.892	7.000	
Na 1785 Peak Res	8.500	9.140	7.340	9.782	2.442	2.000	%
Temperature	15.50	30.92	10.72	11.80	1.089	N/A	DEGC
Na Count Rate	45.00	18.43	16.45	17.17	0.7161	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration − Ratio Of Detector 1 To Detector 2
Master: 15−Jul−2012 1:37 Before: 21−Aug−2012 17:48 After: 21−Aug−2012 21:00

Master: 15−Jul−2012 1:37 Before: 21−Aug−2012 17:48 After: 21−Aug−2012 21:00

Coincidence Count Rate Ratio	1.000	0.9742	0.9958	0.9997	0.003894	0.05000	

Enhanced DTS Cartridge Wellsite Calibration − EDTC Accelerometer Calibration
Before: 21−Aug−2012 17:57

EDTC Z−Axis Acceleration	9.810	N/A	9.859	N/A	N/A	N/A	M/S2

Enhanced DTS Cartridge Wellsite Calibration − Detector Calibration
Before: 21−Aug−2012 17:45 After: 21−Aug−2012 20:57

Gamma Ray (Jig − Bkg)	163.2	N/A	163.2	162.5	−0.6715	14.83	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	164.3	−0.6790	15.00	GAPI

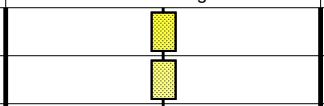
Accelerator−Porosity Tool − Detector Plateau Settings :

Near Detector Plateau Setting 1735 V
Far Detector Plateau Setting 2080 V
Array Detector Plateau Setting 1966 V

High Resolution Laterolog Array − B / Equipment Identification

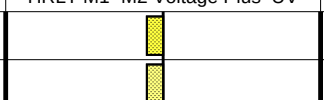
Primary Equipment:		
HRLT Sonde	HRLS − B	768
Auxiliary Equipment:		
HRLT lower Housing	HRLH − B	968
HRLT Lower Cartridge	HRLC − B	974
HRLT upper Housing	HRUH − B	978
HRLT Upper Cartridge	HRUC − B	764

High Resolution Laterolog Array − B Wellsite Calibration
HRLT M01

Idx	Phase	HRLT M0−M1 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		−319.6	−322.7	−280.7	−379.7
	After		−319.4			
1	Before		−338.0	−322.7	−280.7	−379.7
	After		−338.2			
2	Before		−337.0	−322.7	−280.7	−379.7
	After		−337.7			
3	Before		−339.7	−322.7	−280.7	−379.7
	After		−340.4			
4	Before		−326.6	−322.7	−280.7	−379.7
	After		−327.0			
5	Before		−322.4	−322.7	−280.7	−379.7
	After		−322.8			
6	Before		329.6	322.7	379.7	280.7
	After		329.5			
7	Before		−322.7	−322.7	−280.7	−379.7
	After		−322.7			
		(Minimum) (Nominal) (Maximum)				

Before: 21−Aug−2012 17:43
After: 21−Aug−2012 20:35

High Resolution Laterolog Array − B Wellsite Calibration
HRLT M12

Idx	Phase	HRLT M1−M2 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1756	1781	2095	1549
	After		1756			

1	Before	1856	1781	2095	1549
	After	1857			
2	Before	1846	1781	2095	1549
	After	1850			
3	Before	1861	1781	2095	1549
	After	1865			
4	Before	1792	1781	2095	1549
	After	1793			
5	Before	1770	1781	2095	1549
	After	1771			
6	Before	−1818	−1781	−1549	−2095
	After	−1817			
7	Before	1781	1781	2095	1549
	After	1781			
	(Minimum) (Nominal) (Maximum)				

Before: 21−Aug−2012 17:43
After: 21−Aug−2012 20:35

High Resolution Laterolog Array − B Wellsite Calibration

HRLT M23

Idx	Phase	HRLT M2−M3 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1743	1781	2095	1549
	After		1741			
1	Before		1855	1781	2095	1549
	After		1855			
2	Before		1846	1781	2095	1549
	After		1849			
3	Before		1865	1781	2095	1549
	After		1867			
4	Before		1788	1781	2095	1549
	After		1789			
5	Before		1767	1781	2095	1549
	After		1768			
6	Before		−1805	−1781	−1549	−2095
	After		−1803			
7	Before		1781	1781	2095	1549
	After		1781			
	(Minimum) (Nominal) (Maximum)					

Before: 21−Aug−2012 17:43
After: 21−Aug−2012 20:35

High Resolution Laterolog Array − B Wellsite Calibration

HRLT V34

Idx	Phase	HRLT A3−A4 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68490	70000	82360	60900
	After		68480			
1	Before		72670	70000	82360	60900
	After		72730			

2	Before	72620	70000	82360	60900
	After	72790			
3	Before	73650	70000	82360	60900
	After	73790			
4	Before	70590	70000	82360	60900
	After	70670			
5	Before	69790	70000	82360	60900
	After	69860			
6	Before	−69690	−70000	−60900	−82360
	After	−69700			
7	Before	70000	70000	82360	60900
	After	70000			
	(Minimum) (Nominal) (Maximum)				

Before: 21−Aug−2012 17:43
After: 21−Aug−2012 20:35

High Resolution Laterolog Array − B Wellsite Calibration

HRLT V45

Idx	Phase	HRLT A4−A5 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68770	70000	82360	60900
	After		68770			
1	Before		73080	70000	82360	60900
	After		73130			
2	Before		72990	70000	82360	60900
	After		73150			
3	Before		74000	70000	82360	60900
	After		74160			
4	Before		70890	70000	82360	60900
	After		70980			
5	Before		70070	70000	82360	60900
	After		70140			
6	Before		−70090	−70000	−60900	−82360
	After		−70090			
7	Before		70000	70000	82360	60900
	After		70000			
	(Minimum) (Nominal) (Maximum)					

Before: 21−Aug−2012 17:43
After: 21−Aug−2012 20:35

High Resolution Laterolog Array − B Wellsite Calibration

HRLT V56

Idx	Phase	HRLT A5−A6 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68670	70000	82360	60900
	After		68670			
1	Before		72800	70000	82360	60900
	After		72850			
2	Before		72750	70000	82360	60900
	After		72920			

3	Before	73780	70000	82360	60900
	After	73950			
4	Before	70750	70000	82360	60900
	After	70840			
5	Before	69950	70000	82360	60900
	After	70040			
6	Before	−69820	−70000	−60900	−82360
	After	−69820			
7	Before	70000	70000	82360	60900
	After	70000			
	(Minimum) (Nominal) (Maximum)				

Before: 21−Aug−2012 17:43

After: 21−Aug−2012 20:35

High Resolution Laterolog Array − B Wellsite Calibration

HRLT VTP

Idx	Phase	HRLT Torpedo−M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		−68360	−70000	−60900	−82360
	After		−68350			
1	Before		−73140	−70000	−60900	−82360
	After		−73190			
2	Before		−73060	−70000	−60900	−82360
	After		−73230			
3	Before		−74090	−70000	−60900	−82360
	After		−74240			
4	Before		−70970	−70000	−60900	−82360
	After		−71050			
5	Before		−70110	−70000	−60900	−82360
	After		−70190			
6	Before		70100	70000	82360	60900
	After		70100			
7	Before		−70000	−70000	−60900	−82360
	After		−70000			
	(Minimum) (Nominal) (Maximum)					

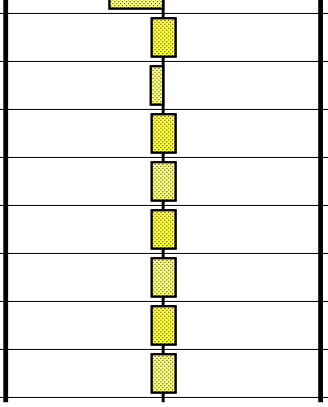
Before: 21−Aug−2012 17:43

After: 21−Aug−2012 20:35

High Resolution Laterolog Array − B Wellsite Calibration

HRLT VBD

Idx	Phase	HRLT Bridle#9−M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		−68350	−70000	−60900	−82360
	After		−68340			
1	Before		−73100	−70000	−60900	−82360
	After		−73170			
2	Before		−73030	−70000	−60900	−82360
	After		−73210			
3	Before		−74060	−70000	−60900	−82360
	After		−74230			

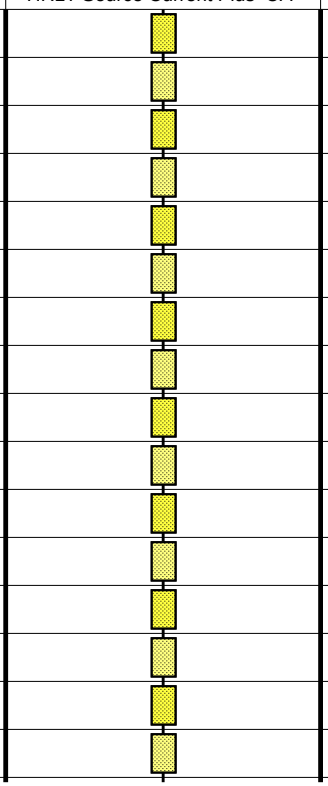
4	Before		−70950	−70000	−60900	−82360
	After		−71030			
5	Before		−70110	−70000	−60900	−82360
	After		−70190			
6	Before		70080	70000	82360	60900
	After		70080			
7	Before		−70000	−70000	−60900	−82360
	After		−70000			
	(Minimum) (Nominal) (Maximum)					

Before: 21−Aug−2012 17:43

After: 21−Aug−2012 20:35

High Resolution Laterolog Array − B Wellsite Calibration

HRLT ISO

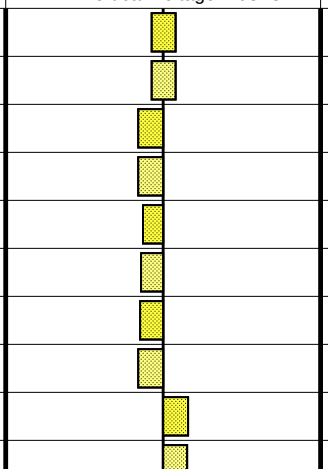
Idx	Phase	HRLT Source Current Plus UA	Value	Nominal	Maximum	Minimum
0	Before		284.9	284.0	334.1	247.0
	After		284.9			
1	Before		281.1	281.1	330.7	244.4
	After		281.1			
2	Before		281.1	281.1	330.7	244.4
	After		281.1			
3	Before		281.1	281.1	330.7	244.4
	After		281.1			
4	Before		281.1	281.1	330.7	244.4
	After		281.1			
5	Before		281.1	281.1	330.7	244.4
	After		281.1			
6	Before		281.1	281.1	330.7	244.4
	After		281.1			
7	Before		281.1	281.1	330.7	244.4
	After		281.1			
	(Minimum) (Nominal) (Maximum)					

Before: 21−Aug−2012 17:43

After: 21−Aug−2012 20:35

High Resolution Laterolog Array − B Wellsite Calibration

HRLT MV

Idx	Phase	HRLT Vertical Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		−321.9	−322.7	−280.7	−379.7
	After		−321.5			
1	Before		−332.0	−322.7	−280.7	−379.7
	After		−332.0			
2	Before		−330.2	−322.7	−280.7	−379.7
	After		−330.8			
3	Before		−331.3	−322.7	−280.7	−379.7
	After		−331.8			
4	Before		−316.0	−322.7	−280.7	−379.7
	After		−316.1			

5	Before	−327.0	−322.7	−280.7	−379.7
	After	−327.2			
6	Before	336.8	322.7	379.7	280.7
	After	336.4			
7	Before	−322.7	−322.7	−280.7	−379.7
	After	−322.7			
	(Minimum) (Nominal) (Maximum)				

Before: 21−Aug−2012 17:43

After: 21−Aug−2012 20:35

Hostile Litho−Density Sonde / Equipment Identification

Primary Equipment:		
Hostile Litho Density Sonde	HLDS − D	45
Hostile Litho Density High Voltage	HLDV − D	45
Gamma Source Radioactive	GSR − Z	8113
Auxiliary Equipment:		
Hostile Litho Density Pad	HLDP − C	45
Hostile Litho Density High Voltage Housi	HEH − H	47

Hostile Litho−Density Sonde Wellsite Calibration

Background Measurement

Phase	SS Cs Resolution Bkg %	Value
Master		7.952
Before		8.041
After		7.929
	7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)	

Phase	LS Cs Resolution Bkg %	Value
Master		8.109
Before		8.122
After		8.094
	7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)	

Phase	LSW1 Background CPS	Value
Master		71.68
Before		71.83
After		71.86
	55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)	

Phase	LSW2 Background CPS	Value
Master		68.54
Before		66.87
After		67.12
	50.00 (Minimum) 100.0 (Nominal) 140.0 (Maximum)	

Phase	LSW3 Background CPS	Value
Master		146.7
Before		147.7
After		146.2
	110.0 (Minimum) 200.0 (Nominal) 290.0 (Maximum)	

Phase	LSW4 Background CPS	Value
Master		177.8
Before		177.9
After		178.8
	140.0 (Minimum) 250.0 (Nominal) 360.0 (Maximum)	

Phase	LSW5 Background CPS	Value
Master		409.7
Before		409.1
After		409.8
	330.0 (Minimum) 600.0 (Nominal) 830.0 (Maximum)	

Phase	SSW1 Background CPS	Value
Master		81.22
Before		80.95
After		80.92
	55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)	

Phase	SSW2 Background CPS	Value
Master		145.7
Before		142.7
After		143.5
	100.0 (Minimum) 200.0 (Nominal) 260.0 (Maximum)	

Phase	SSW3 Background CPS	Value
Master		389.5
Before		386.1
After		386.2
	280.0 (Minimum) 500.0 (Nominal) 700.0 (Maximum)	

Phase	SSW4 Background CPS	Value
Master		200.9
Before		202.5
After		201.8
	150.0 (Minimum) 270.0 (Nominal) 380.0 (Maximum)	

Phase	SSW5 Background CPS	Value
Master		146.3
Before		145.8
After		144.3
	110.0 (Minimum) 200.0 (Nominal) 270.0 (Maximum)	

Master: 3−Aug−2012 12:38 Before: 21−Aug−2012 17:46 After: 21−Aug−2012 20:59

Litho−Density Spectroscopy Cartridge − B / Equipment Identification

Primary Equipment:		
LDSC Cartridge	LDSC − B	521
Auxiliary Equipment:		
LDSC Housing	LDSH − A	319

Accelerator−Porosity Tool / Equipment Identification

Primary Equipment:		
Accelerator−Porosity Sonde	APS − C	22
APS Minitron	MNTR − F	5978
Auxiliary Equipment:		
Accelerator−Porosity Housing	APH − AC	22
APS Calibration Water Tank	SFT − 178	1
APS Aluminum Calibrator Sleeve	SFT − 281	1

Accelerator−Porosity Tool Wellsite Calibration

Detector Background

Phase	Near Det Bkg Cntrate CPS	Value
Master		32.40
Before		31.99
After		30.83

1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)

Phase	Far Det Bkg Cntrate CPS	Value
Master		33.26
Before		33.21
After		33.08

1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)

Phase	Array−1 Det Bkg Cntrate CPS	Value
Master		29.98
Before		29.85
After		28.78

1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)

Phase	Array−2 Det Bkg Cntrate CPS	Value
Master		29.00
Before		29.26
After		29.63

1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)

Phase	Array Therm Det Bkg Cntrate CPS	Value
Master		32.46
Before		30.67
After		33.62

1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)

Master: 26−Jul−2012 12:44 Before: 21−Aug−2012 17:50 After: 21−Aug−2012 20:56

Accelerator−Porosity Tool Wellsite Calibration

Calibration Ratios

Phase	Near/Far Calibration Ratio	Value
Master		0.8878

0.8000 (Minimum) 0.9250 (Nominal) 1.050 (Maximum)

Phase	Near/Array Calibration Ratio	Value
Master		1.065

0.9000 (Minimum) 1.030 (Nominal) 1.170 (Maximum)

Phase	Near/Array Cal Ratio Up/Down	Value
Master		1.018

0.9700 (Minimum) 1.000 (Nominal) 1.030 (Maximum)

Master: 26−Jul−2012 12:45

Accelerator−Porosity Tool Wellsite Calibration

Tank Check

Phase	Array−1 Standoff Porosity PU	Value
Master		10.57

9.900 (Minimum) 11.75 (Nominal) 13.60 (Maximum)

Phase	Array−2 Standoff Porosity PU	Value
Master		10.16

9.900 (Minimum) 11.75 (Nominal) 13.60 (Maximum)

Phase	Average Slowing Down Time US	Value
Master		6.071

5.500 (Minimum) 6.000 (Nominal) 6.250 (Maximum)

Phase	Array−1 SDT Ratio Up/Down	Value
Master		0.9785

0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)

Phase	Array−2 SDT Ratio Up/Down	Value
Master		0.9681

0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)

Phase	Sigma Formation CU	Value
Master		28.31

20.00 (Minimum) 27.50 (Nominal) 35.00 (Maximum)

Master: 26−Jul−2012 12:45

Hostile Natural Gamma Ray Cartridge − B / Equipment Identification

Primary Equipment:		
HNGC Cartridge	HNGC − B	300
Auxiliary Equipment:		
HNGC Housing	HNGH − A	115

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:		
HNGS Sonde	HNGS − BA	194
Auxiliary Equipment:		
HNGS Sonde Housing	HNSH − BA	205

HNGS Sonde Housing	HNSH − BA	205
Gamma Source Radioactive	GSR − U	616008

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 1 Check

Phase	Na 511 Peak Loc	Value
Master		39.55
Before		39.72
After		39.70

37.50 (Minimum) 40.00 (Nominal) 43.50 (Maximum)

Phase	Na 511 Peak Res %	Value
Master		15.74
Before		15.19
After		14.31

12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)

Phase	High Voltage V	Value
Master		1192
Before		1137
After		1140

900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)

Phase	Na 1785 Peak Loc	Value
Master		141.9
Before		142.9
After		142.4

135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)

Phase	Na 1785 Peak Res %	Value
Master		8.399
Before		8.027
After		8.850

7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)

Phase	Temperature DEGC	Value
Master		30.02
Before		10.49
After		10.59

−28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)

Phase	Na Count Rate CPS	Value
Master		18.00
Before		16.36
After		17.10

10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)

Master: 15−Jul−2012 1:37 Before: 21−Aug−2012 17:48 After: 21−Aug−2012 21:00

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 2 Check

Phase	Na 511 Peak Loc	Value
Master		39.55
Before		39.73
After		39.56

37.50 (Minimum) 40.00 (Nominal) 43.50 (Maximum)

Phase	Na 511 Peak Res %	Value
Master		16.74
Before		14.78
After		14.73

12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)

Phase	High Voltage V	Value
Master		1112
Before		1075
After		1075

900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)

Phase	Na 1785 Peak Loc	Value
Master		142.2
Before		143.4
After		141.5

135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)

Phase	Na 1785 Peak Res %	Value
Master		9.140
Before	BEFORE−AFTER LIMIT	7.340
After		9.782

7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)

Phase	Temperature DEGC	Value
Master		30.92
Before		10.72
After		11.80

−28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)

Phase	Na Count Rate CPS	Value
Master		18.43
Before		16.45
After		17.17

10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)

Master: 15−Jul−2012 1:37 Before: 21−Aug−2012 17:48 After: 21−Aug−2012 21:00

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Ratio Of Detector 1 To Detector 2

Phase	Coincidence Count Rate Ratio	Value
Master		0.9742
Before		0.9958
After		0.9997

0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)

Master: 15−Jul−2012 1:37
Before: 21−Aug−2012 17:48
After: 21−Aug−2012 21:00

Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:		
EDTC Gamma Ray Detector	EDTG − A/B	77693
Enhanced DTS Cartridge	EDTC − B	8529
Auxiliary Equipment:		
EDTC Housing	EDTH − B	8528

Enhanced DTS Cartridge Wellsite Calibration

EDTC Accelerometer Calibration

Phase	EDTC Z−Axis Acceleration M/S2	Value
Before		9.859
	9.610 (Minimum) 9.810 (Nominal) 10.01 (Maximum)	

Before: 21−Aug−2012 17:57

Enhanced DTS Cartridge Wellsite Calibration

Detector Calibration

Phase	Gamma Ray Background GAPI	Value	Phase	Gamma Ray (Jig − Bkg) GAPI	Value	Phase	Gamma Ray (Calibrated) GAPI	Value
Before		1.756	Before		163.2	Before		165.0
After		4.001	After		162.5	After		164.3
	0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)			148.3 (Minimum) 163.2 (Nominal) 178.0 (Maximum)			150.0 (Minimum) 165.0 (Nominal) 180.0 (Maximum)	

Before: 21−Aug−2012 17:45 After: 21−Aug−2012 20:57

Company: **Lamont Doherty Earth Observatory**
Shell

Well: **Expedition 344S, U0080A (USC80)**

Field: **Baffin Bay**

Rig: **JOIDES Resolution**

Country: **USA**

Schlumberger

APS Porosity
HLDS Litho−Density