COMPANY: Lamont Doherty

WELL: ODP Leg 189, Site 1170 (WSTR-2A)

FIELD: Tasmanian Seaway, West Tasmania Site

COUNTY: Offshore STATE: Indian Ocean

COUNTY: Offshore
Field: Tasmanian Seaway, West Tasm
Location: ODP Leg 189, Site 1170 (WSTR-
Well: Company: Lamont Doherty

Schlumberger

Density/APS Porosity

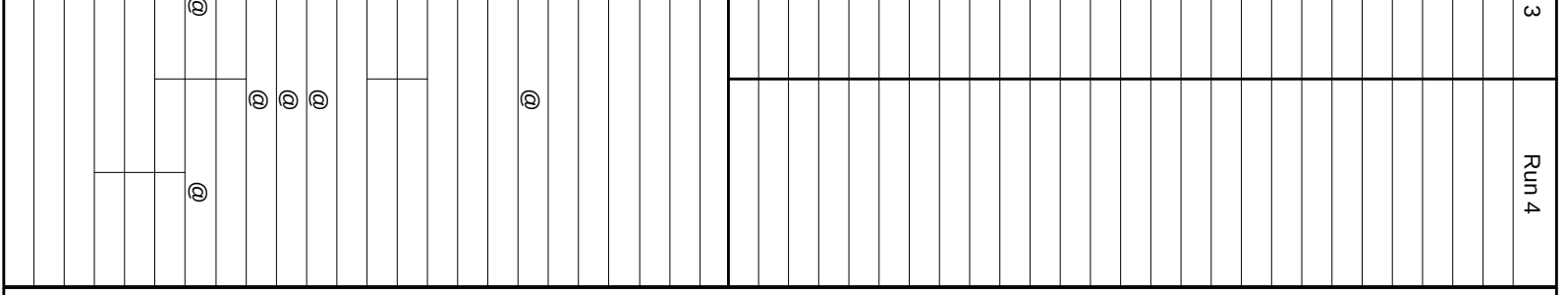
LOCATION

Elev.: K.B. 11.2 M
G.L. -2716 M
D.F. 10.9 M

Permanent Datum: MSL — Elev.: 0 ft
Log Measured From: RKB — 11.2 M above Perm. Datum
Drilling Measured From: RKB

API Serial No.	LATTITUDE: 47* 9.06' S	LONGITUDE: 146* 2.98' E	RIG: JOIDES Resolution

			Run 1	Run 2	Run
Logging Date		9-APR-2000			
Run Number		One			
Depth Driller		3496 M			
Schlumberger Depth		3497 M			
Bottom Log Interval		3471 M			
Top Log Interval		3245 M			
Casing Driller Size @ Depth		0.000 in @ 3249 M	@	@	
Casing Schlumberger		3245 M			
Bit Size		9.875 in			
Type Fluid In Hole		Salt Water Base			
MUD	Density / Viscosity	8.51234 lbm/gal			
MUD	Fluid Loss / PH				
MUD	Source Of Sample	Salt water			
RM @ Measured Temperature		0.230 ohm.m @ 60 degF	@	@	
RMF @ Measured Temperature		@	@	@	
RMC @ Measured Temperature		@	@	@	
Source RMF / RMC					
RM @ MRT / RMF @ MRT		0.472 @ 26 / @ 26	@ / @	@ / @	
Maximum Recorded Temperatures		25.8 Deg C.			
Circulation Stopped / Time		9-APR-2000 16:00			
Logger On Bottom / Time		9-APR-2000 22:15			
Unit Number / Location		99 Houston OS			
Recorded By		Kerry M. Swain			
Witnessed By		Patrick Fothergill, Ulysses S. Ninnemann			



ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO CLAUSE 4 OF OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

OTHER SERVICES1	OTHER SERVICES2
OS1: DITE/HNGS	OS1:
OS2: GHMT/NGTC/DSST	OS2:
OS3: MESTB	OS3:
OS4:	OS4:
OS5:	OS5:

REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Hole cored with APC/XCB.	
Sea Floor at 2715.8 MBRF (Driller), Logger depth of sea floor not found.	
Log presented in meters below rig floor.	
Lamont Temperature Tool (TAP) run on DITE/HLDS/APS/HNGS only.	
Toolstring -DITE/HLDS/APS/HNGS.	
Wireline Heave Compensator (WHC) used on all descents.	
Sepiolite mud was used to displace the borehole.	
Dirllers TD-3496 mbrf.	
Loggers TD-3497.5 mbrf.	
Drill pipe Logger-3245 mbrf.	
Drill pipe Driller -3249 mbrf.	
WHC hit maximum limit between 3475-3448 3405-3374 mbrf on main pass and	
between 3384-3343 mbrf on the repeat pass.	
GR spike at 3355 mbrf on repeat section due to detectorvoltage loop instability.	
HLDS skid wear indicator measurements not used in master calibration.	
HNGS background countrate is below the specifications but does not affect log.	

RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION:		9C1-303	PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

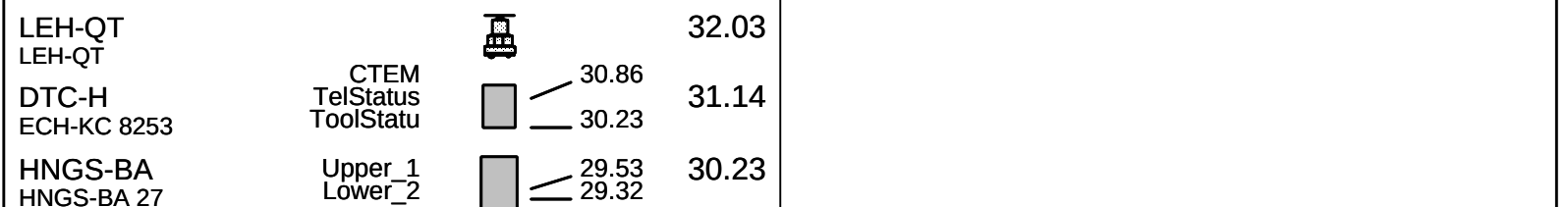
EQUIPMENT DESCRIPTION

RUN 1 RUN 2

SURFACE EQUIPMENT

SFT-281 24
SFT-178 4722
GSR-U 135
WITM (DTS)-A

DOWNHOLE EQUIPMENT



HNSH-BA 27

ILE-D 27.73
ILE-D 25

Status
Minitron
Near TD
Near Arr
Near
Far Arr
Far
Far TD

APS-BA 25.29
APS-BA 22
APH-AC 22
MNTR-F 4185

22.85
22.77
22.64
22.54

NPLC-B 21.35
NPLC-B 82
NPH-B 82

Status 20.12

HLDS 18.90
GSR-Z 1846
HLDV-D 35
HLDS-D 35
HEH-H 35
HLDP-C 12

Caliper
SS LS Status 14.85

DTA-A 14.08
ECH-KE 8261

DIT-E RED 12.87
DIC-EB 171
MIH-ZA 174
DIS-HB 200

SP 6.49
Deep Ind 6.24
Aux Meas SFL 5.32
Med Ind 5.17

Status 3.34

AH-TAP 3.34
AH-TAP

DF
Tension HV 0.00

TOOL ZERO

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

Output DLIS Files

DEFAULT	DITE .013	FN:13	PRODUCER	09-Apr-2000 22:07	3497.6 M	3222.2 M
DITE_CUST	DITE .013	FN:14	PRODUCER	09-Apr-2000 22:07	3497.6 M	3223.3 M

OP System Version: 9C1-303

MCM

DIT-E	9C1-303	DTA-A	9C1-303
HLDS	9C1-303	NPLC-B	9C1-303
APS-BA	9C1-303	HNGS-BA	9C1-303
DTC-H	9C1-303		

Main Log

PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 150

APS Effective Standoff in Limestone (STOF)
-1 (IN) 4

HLDS Caliper (LCAL)
0 (IN) 20

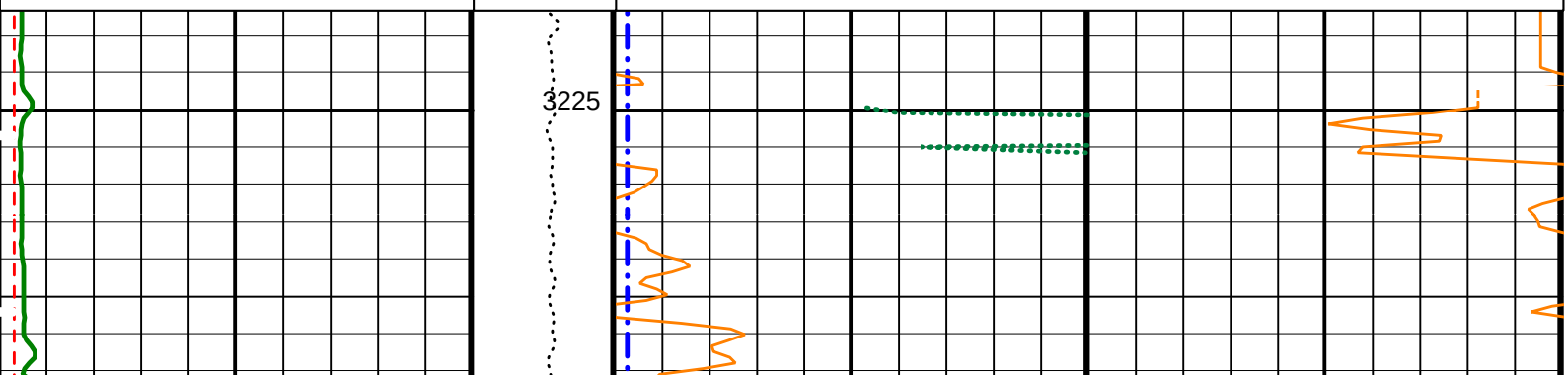
Tension (TENS) (LBF)
10000 0

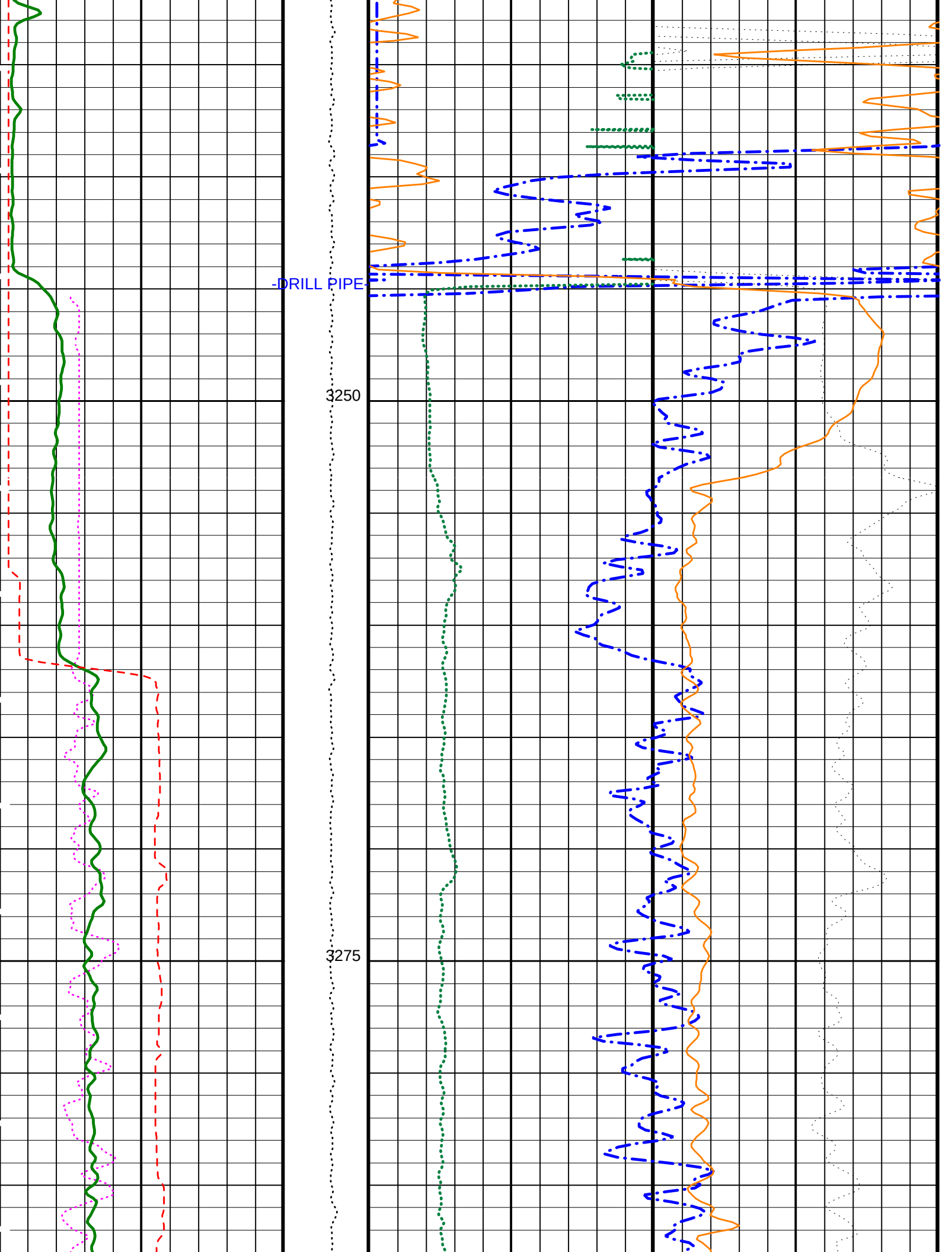
HLDS Long Spaced Photoelectric Effect (PEFL)
0 (----) 10

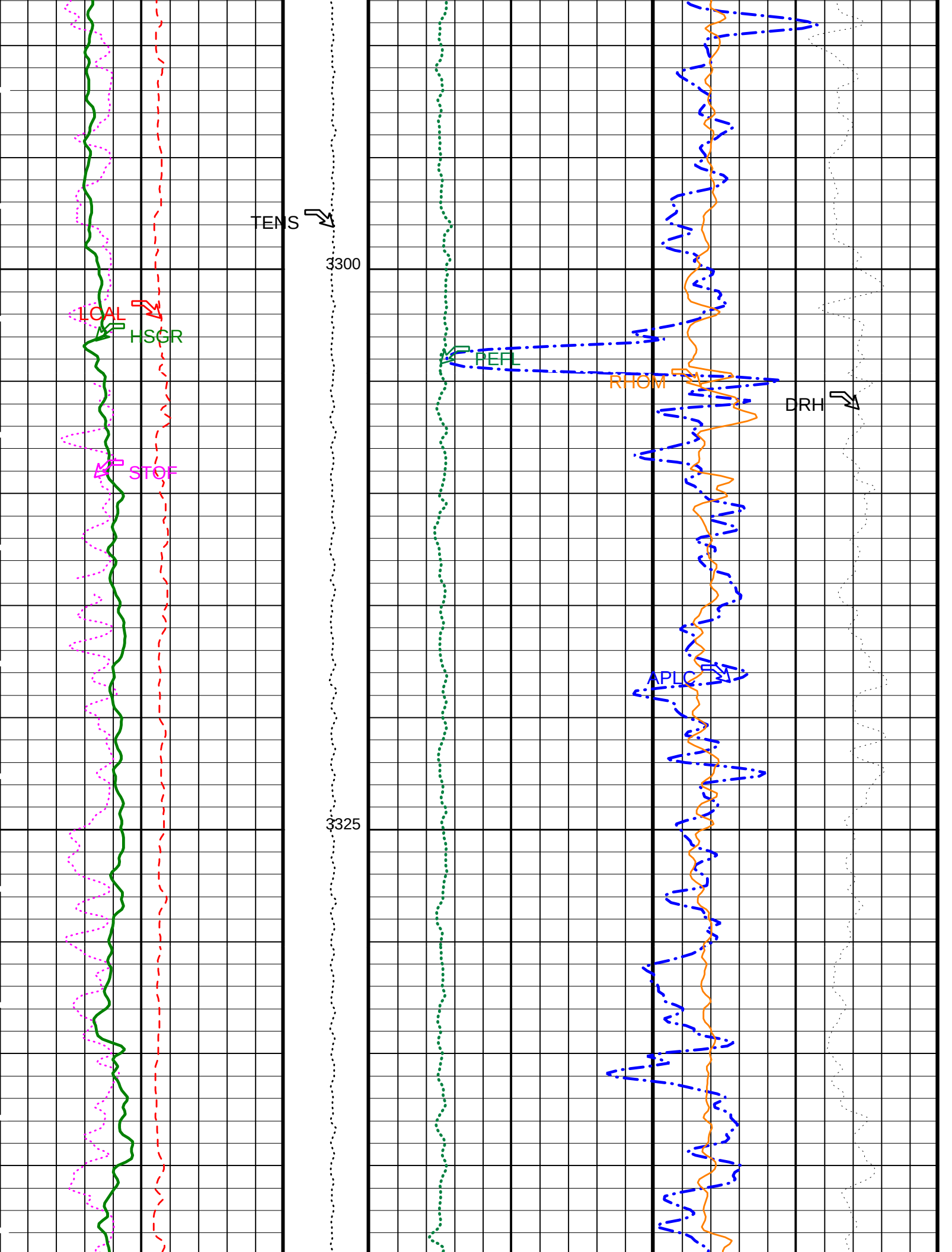
HLDS Bulk Density Correction (DRH)
-0.25 (G/C3) 0.25

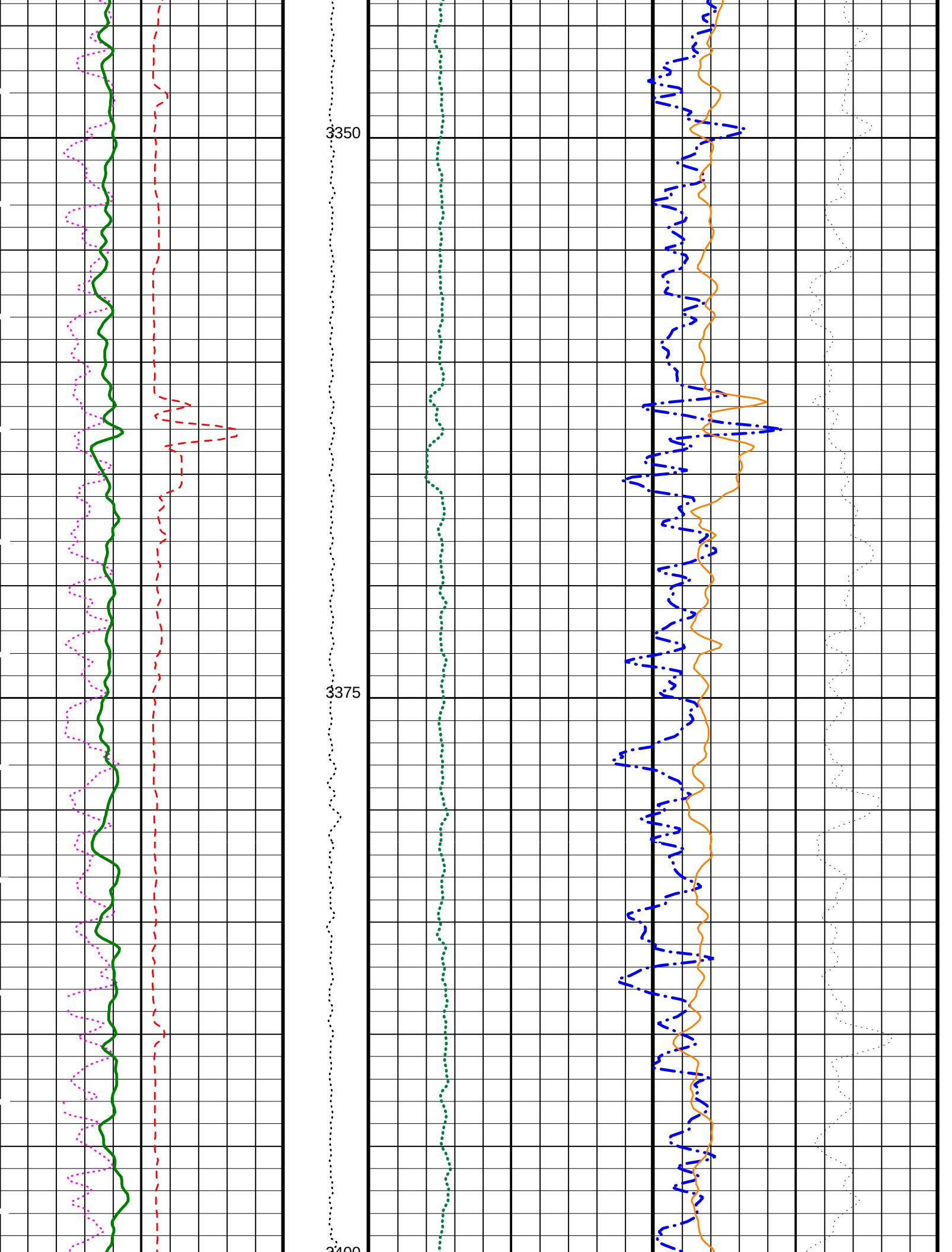
HLDS Bulk Density (RHOM)
3 (G/C3) 1

APS Near/Array Corrected Limestone Porosity (APLC)
0 (PU) 100




-DRILL PIPE-
3250
3275


TENS
3300
LCAL
HSGR
PEFL
RHOM
DRH
STOF
APLC
3325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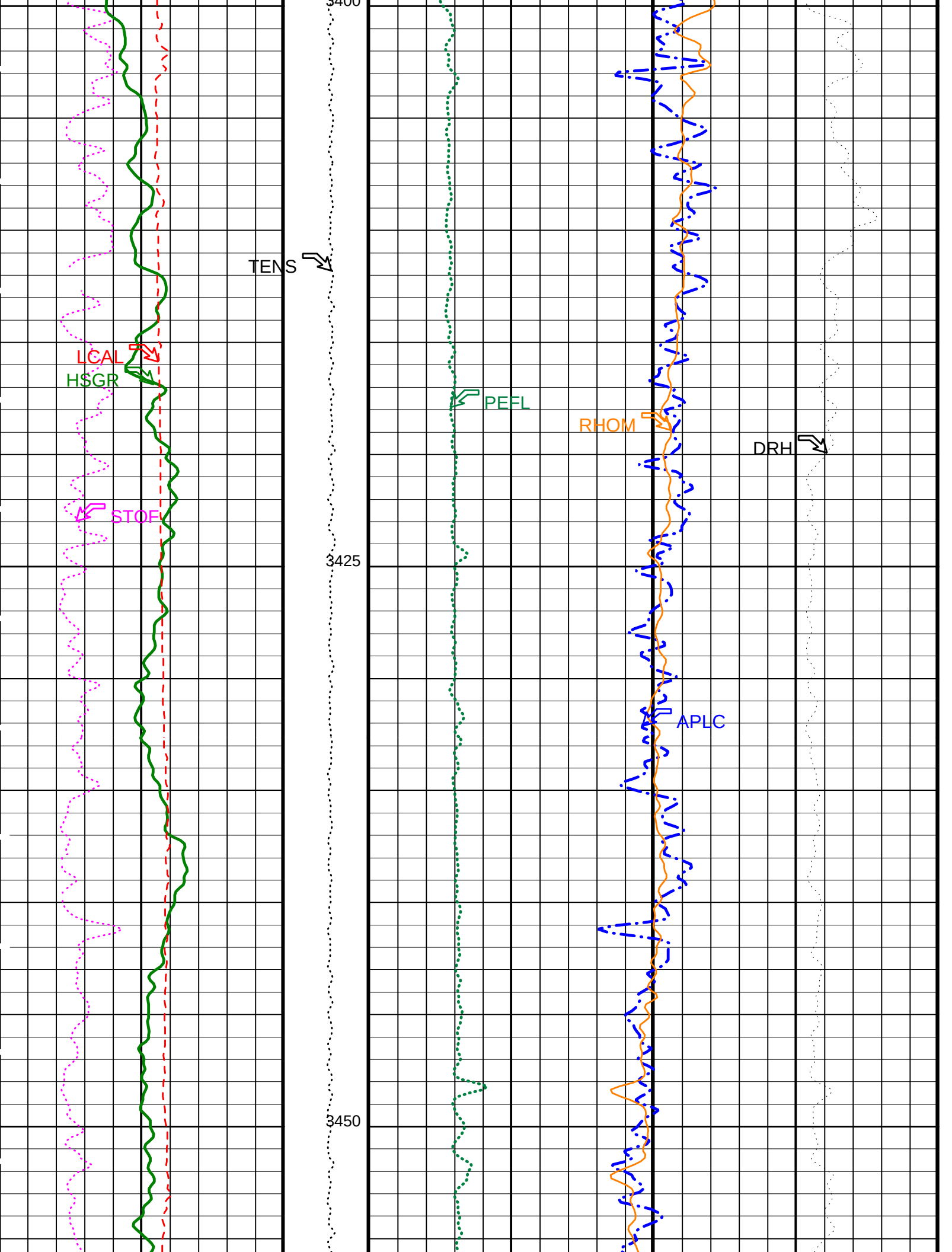
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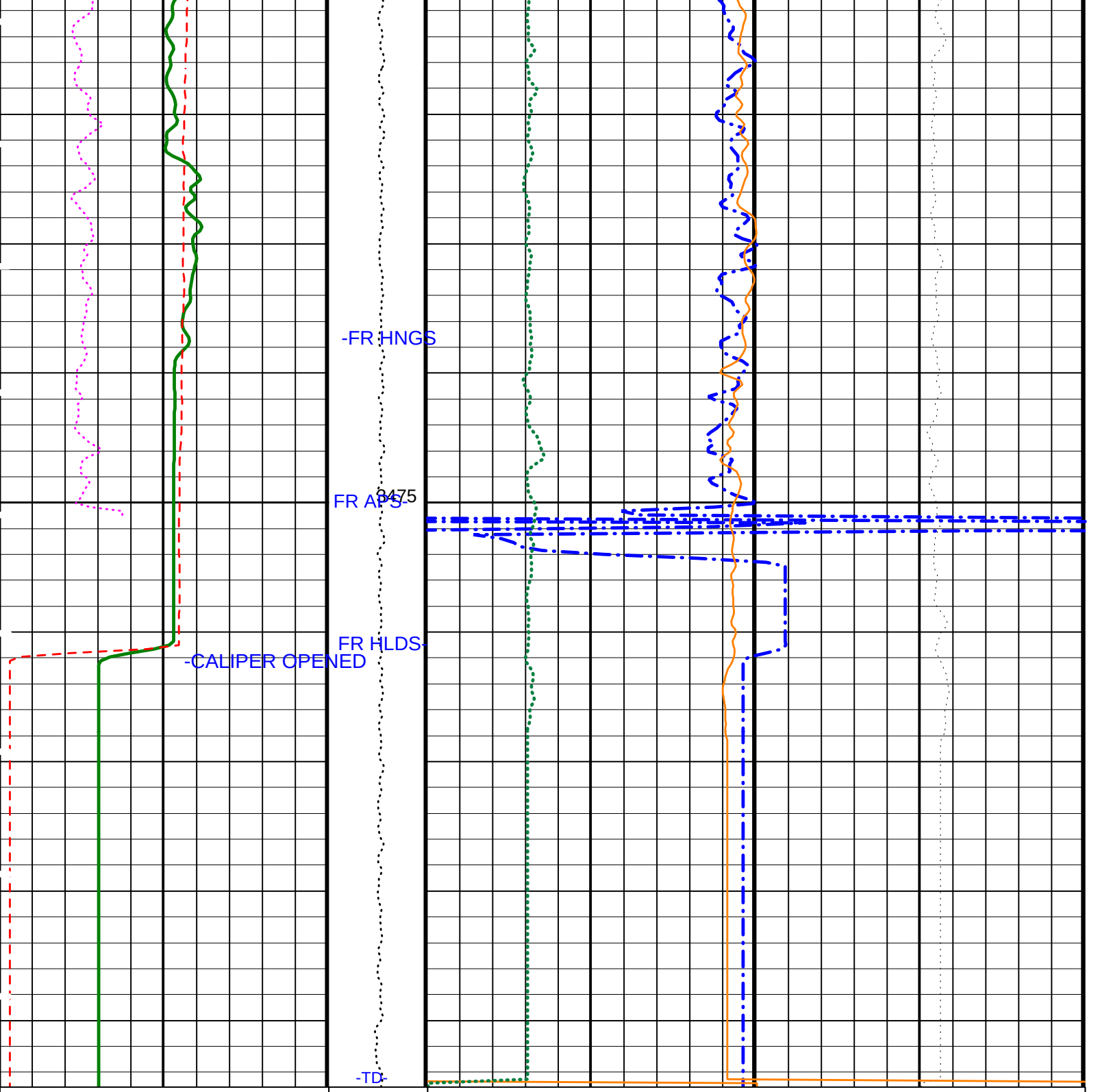
TENS
LCAL
HSGR
STOF
PEFL
RHOM
DRH
APLC
3425
3450



HLDS Caliper (LCAL)
0 (IN) 20

Tension (TENS) (LBF)
10000 0

APS Near/Array Corrected Limestone Porosity (APLC)
0 (PU) 100

APS Effective Standoff in Limestone (STOF)
-1 (IN) 4

HLDS Bulk Density (RHOM)
3 (G/C3) 1

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 150

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

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

Time Mark Every 60 S

Main Log

PIP SUMMARY

Parameters

DLIS Name	Description	Value	
	HLDS Data Control	AcquiredData	
	HLDS SS NCB Mode	Density	
	HLDS LS Digital Integrator State	Normal	
	HLDS LS Tri-Ported Memory State	Enable	
	APS Cement Thickness Source	COMPUTED	
	HLDS SS Tri-Ported Memory State	Enable	
	HLDS LS NCB Mode	Density	
	HLDS Spec Message Rate	1	
	Apparent Thickness of Cement	0	IN
	APS Software Version	5	
	HLDS SS Digital Integrator State	Normal	
	HLDS Diag Message Rate	20	
AASD	APS Thermal and Array Detectors High Voltage Setting	1987.2	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	2068.96	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	1761.66	V
ASOS	APS Standoff Correction Switch	ON	
ATSS	APS Temperature-Pressure-Salinity Correction Switch	OFF	
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)	80	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	-50000.00	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	7.46561	%
D1TC	HNGS Detector 1 Calibration Temperature	46.8749	DEGF
D1TL	HNGS Detector 1 Calibration Thorium Peak Location	211.312	
D2PR	HNGS Detector 2 Calibration Thorium Peak Resolution	6.19449	%
D2TC	HNGS Detector 2 Calibration Temperature	44.9572	DEGF
D2TL	HNGS Detector 2 Calibration Thorium Peak Location	209.601	
DBCC	HNGS Barite Constant Correction Flag	NONE	
DFD	Drilling Fluid Density	8.51	LB/G
DHC	Density Hole Correction	BS	
DPPM	Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1.02	G/C3
FSAL	Formation Salinity	32000	PPM
GCF1_START	HNGS Detector 1 GCF Constant	1	
GCF2_START	HNGS Detector 2 GCF Constant	1	
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
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	
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	5.50788e-032	
LATC	HLDS Activation Correction	ON	
MARQ_START	HNGS Marquardt Start-up Mode	INTERNAL	
MDEN	Matrix Density	2.71	G/C3
NARC	APS Near/Array Calibration Ratio	1.06801	
NFRC	APS Near/Far Calibration Ratio	0.903124	
RDF1_START	HNGS Detector 1 RDF Constant	0	
RDF2_START	HNGS Detector 2 RDF Constant	0	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S1NA	HNGS Detector 1 Calibration Sodium Count Rate	28.899	CPS
S1NG	HNGS Detector 1 Calibration End-On / Side-On Gain Ratio	0.992258	
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
S2NA	HNGS Detector 2 Calibration Sodium Count Rate	29.4941	CPS
S2NG	HNGS Detector 2 Calibration End-On / Side-On Gain Ratio	0.981545	
SABK	HNGS Statistical Uncertainty in Borehole Potassium Running Average	0	
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
SHT	Surface Hole Temperature	68	DEGF

TD	Total Depth	11469.8	FT
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0	

Format: APSLiquidPorosity_1 Vertical Scale: 1:200 Graphics File Created: 09-Apr-2000 22:08

OP System Version: 9C1-303

MCM

DIT-E	9C1-303	DTA-A	9C1-303
HLDS	9C1-303	NPLC-B	9C1-303
APS-BA	9C1-303	HNGS-BA	9C1-303
DTC-H	9C1-303		

Output DLIS Files

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DITE_CUST	DITE .013	FN:14	PRODUCER	09-Apr-2000 22:07		

Output DLIS Files

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OP System Version: 9C1-303

MCM

DIT-E	9C1-303	DTA-A	9C1-303
HLDS	9C1-303	NPLC-B	9C1-303
APS-BA	9C1-303	HNGS-BA	9C1-303
DTC-H	9C1-303		

Repeat Section

PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 150

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

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

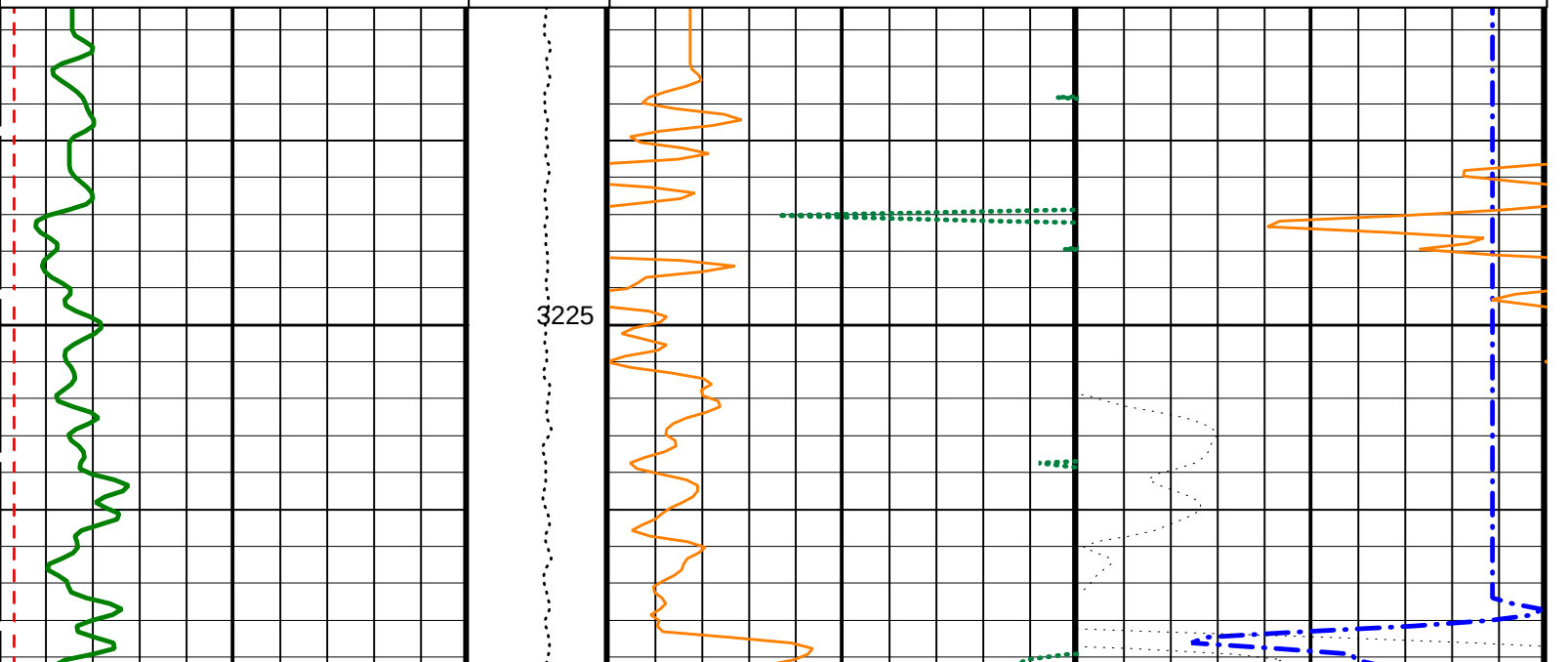
APS Effective Standoff in Limestone (STOF)
-1 (IN) 4

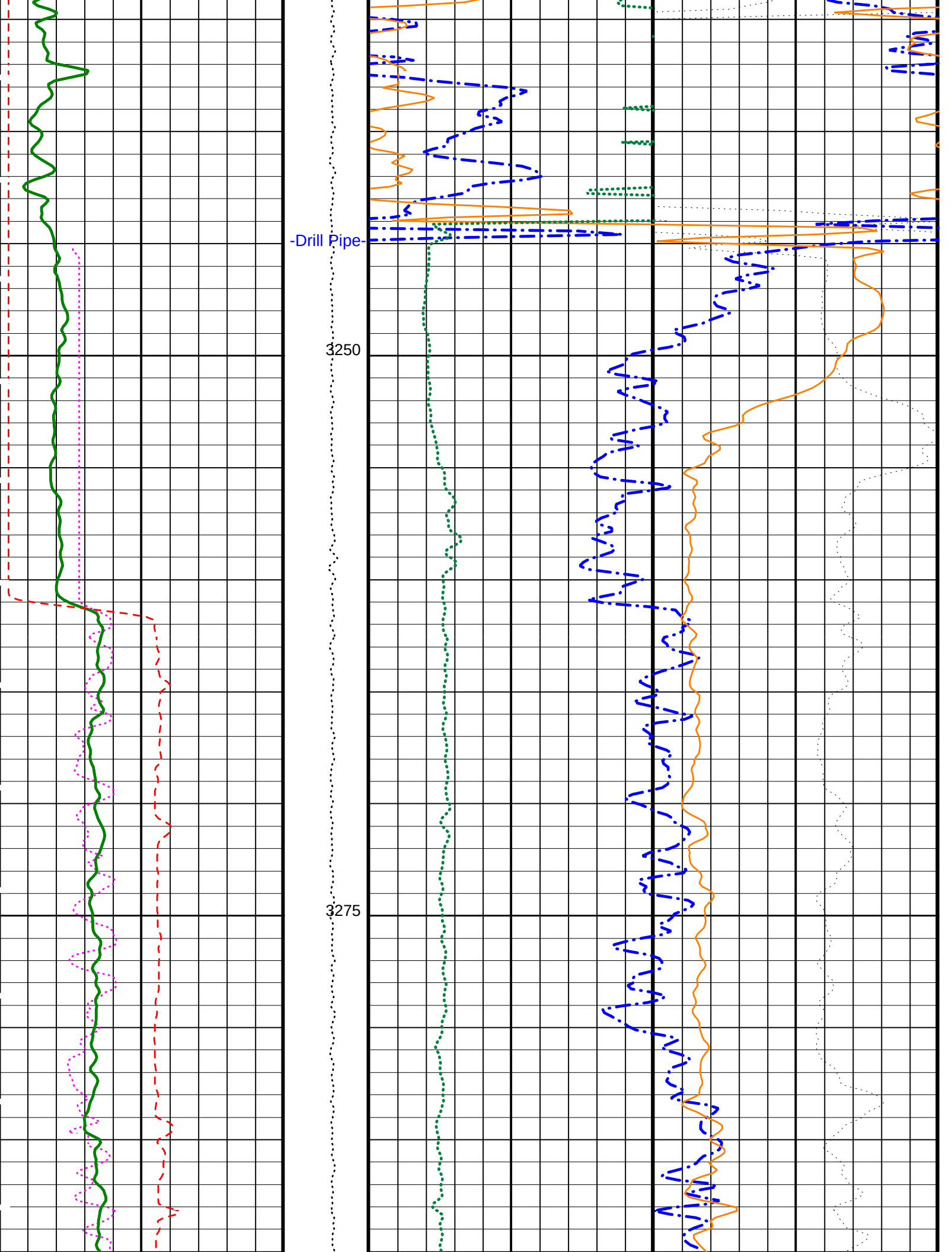
HLDS Bulk Density (RHOM)
3 (G/C3) 1

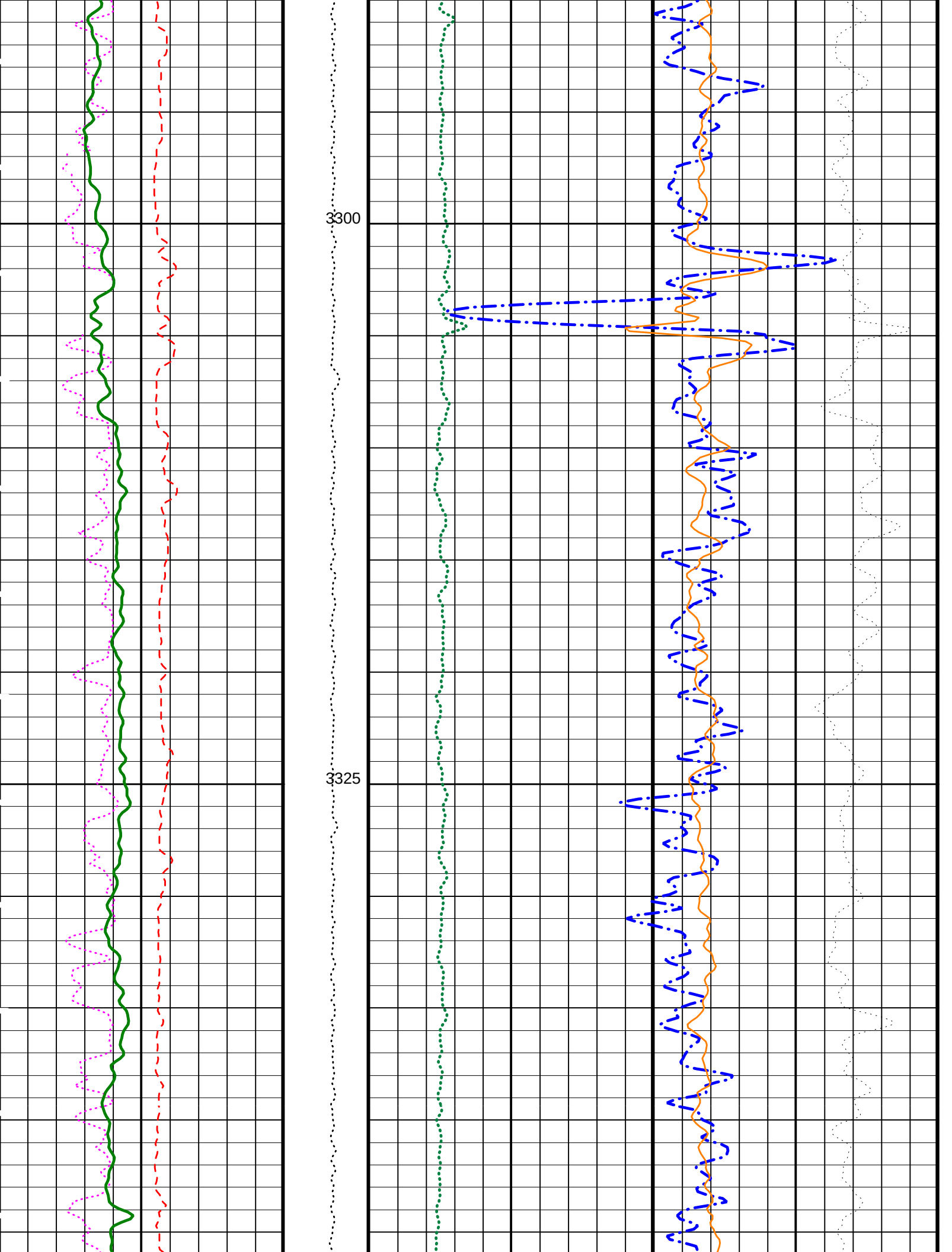
HLDS Caliper (LCAL)
0 (IN) 20

Tension (TENS) (LBF)
10000 0

APS Near/Array Corrected Limestone Porosity (APLC)
0 (PU) 100




-Drill Pipe-
3250
3275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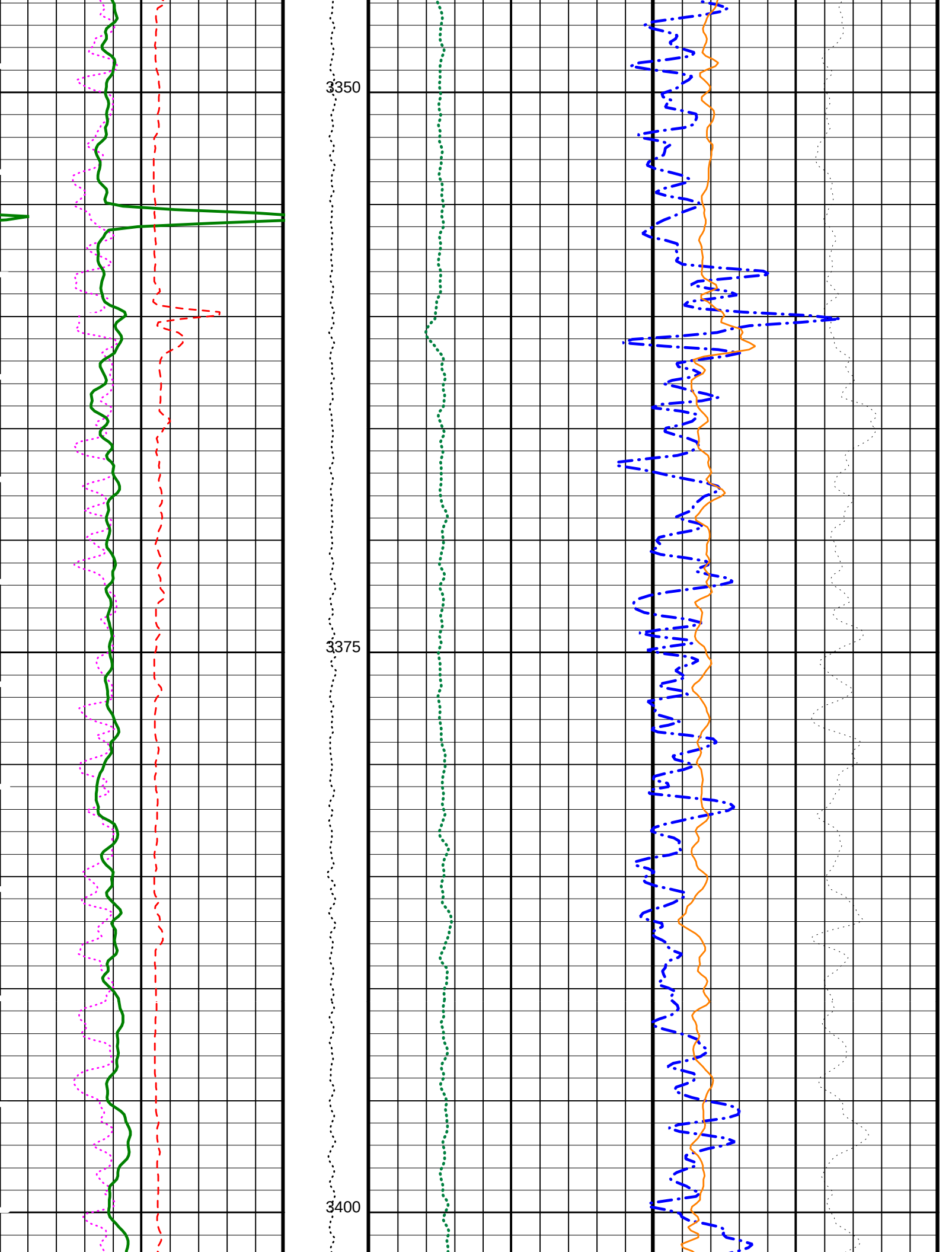
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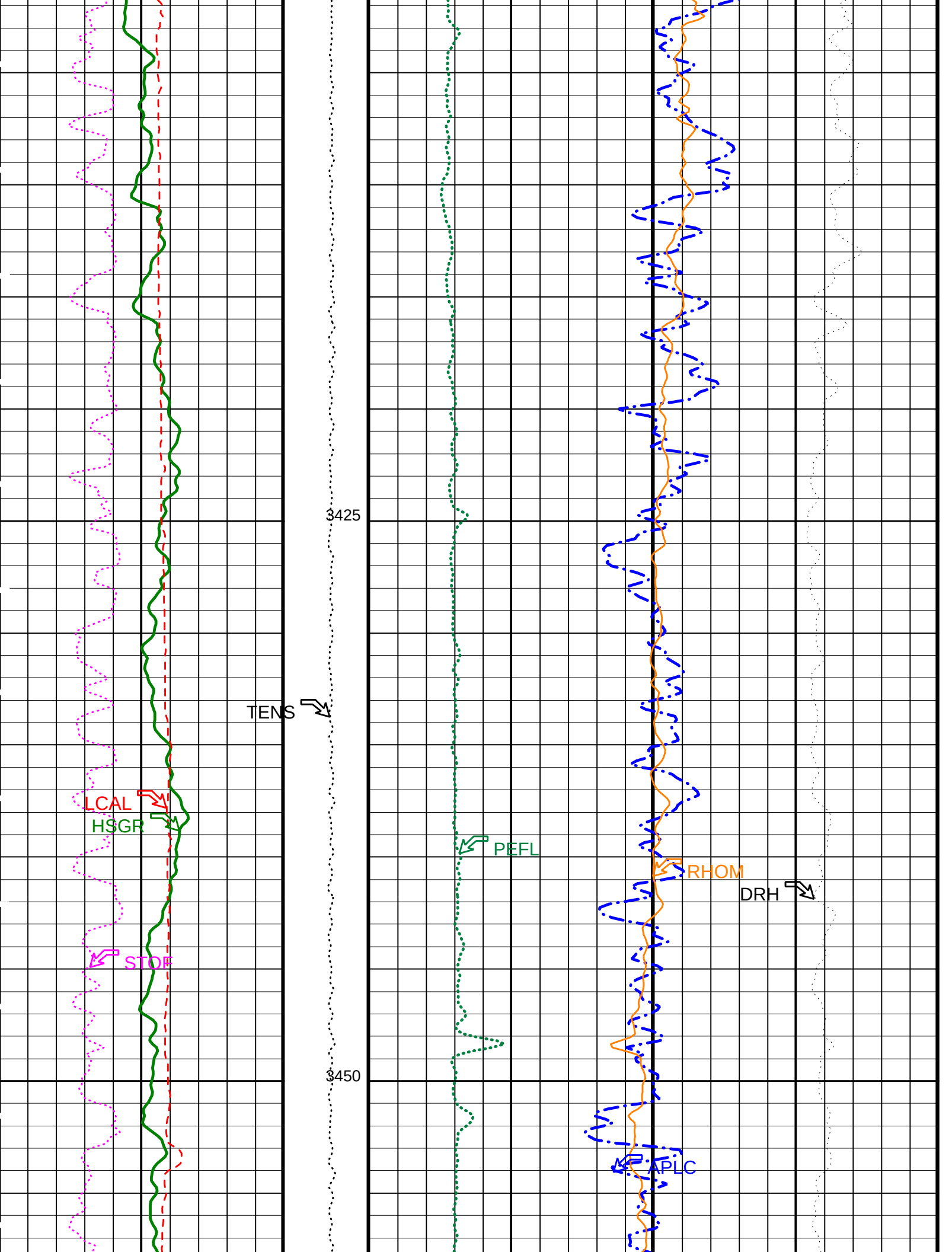
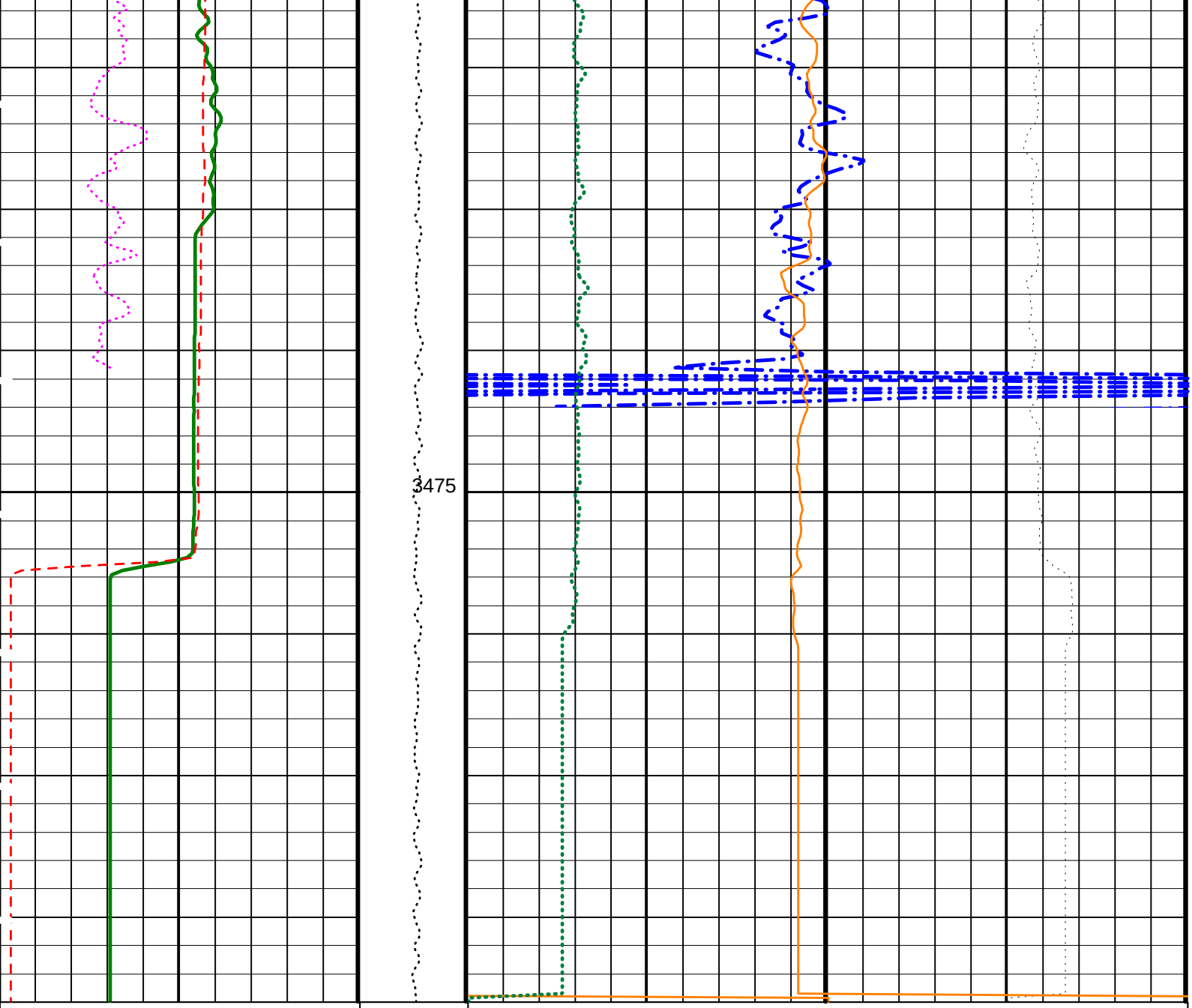

3425
TENS
LCAL
HSGR
PEFL
RHOM
DRH
STOF
APLC
3450



HLDS Caliper (LCAL)
0 (IN) 20

Tension (TENS) (LBF)
10000 0

APS Near/Array Corrected Limestone Porosity (APLC)
0 (PU) 100

APS Effective Standoff in Limestone (STOF)
-1 (IN) 4

HLDS Bulk Density (RHOM)
3 (G/C3) 1

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 150

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

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

Time Mark Every 60 S

Repeat Section

PIP SUMMARY

Parameters

DLIS Name	Description	Value
	HLDS Data Control	AcquiredData
	HLDS SS NCB Mode	Density
	HLDS LS Digital Integrator State	Normal
	HLDS LS Tri-Ported Memory State	Enable
	APS Cement Thickness Source	COMPUTED
	HLDS SS Tri-Ported Memory State	Enable
	HLDS LS NCB Mode	Density

	HLDS Spec Message Rate	1	
	Apparent Thickness of Cement	0	IN
	APS Software Version	5	
	HLDS SS Digital Integrator State	Normal	
	HLDS Diag Message Rate	20	
AASD	APS Thermal and Array Detectors High Voltage Setting	1987.2	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	2068.96	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	1761.66	V
ASOS	APS Standoff Correction Switch	ON	
ATSS	APS Temperature-Pressure-Salinity Correction Switch	OFF	
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)	80	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	-50000.00	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	7.46561	%
D1TC	HNGS Detector 1 Calibration Temperature	46.8749	DEGF
D1TL	HNGS Detector 1 Calibration Thorium Peak Location	211.312	
D2PR	HNGS Detector 2 Calibration Thorium Peak Resolution	6.19449	%
D2TC	HNGS Detector 2 Calibration Temperature	44.9572	DEGF
D2TL	HNGS Detector 2 Calibration Thorium Peak Location	209.601	
DBCC	HNGS Barite Constant Correction Flag	NONE	
DFD	Drilling Fluid Density	8.51	LB/G
DHC	Density Hole Correction	BS	
DPPM	Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1.02	G/C3
FSAL	Formation Salinity	32000	PPM
GCF1_START	HNGS Detector 1 GCF Constant	1	
GCF2_START	HNGS Detector 2 GCF Constant	1	
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
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	-0.000965788	
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	4.02002e-036	
LATC	HLDS Activation Correction	ON	
MARQ_START	HNGS Marquardt Start-up Mode	INTERNAL	
MDEN	Matrix Density	2.71	G/C3
NARC	APS Near/Array Calibration Ratio	1.06801	
NFRC	APS Near/Far Calibration Ratio	0.903124	
RDF1_START	HNGS Detector 1 RDF Constant	0	
RDF2_START	HNGS Detector 2 RDF Constant	0	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S1NA	HNGS Detector 1 Calibration Sodium Count Rate	28.899	CPS
S1NG	HNGS Detector 1 Calibration End-On / Side-On Gain Ratio	0.992258	
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
S2NA	HNGS Detector 2 Calibration Sodium Count Rate	29.4941	CPS
S2NG	HNGS Detector 2 Calibration End-On / Side-On Gain Ratio	0.981545	
SABK	HNGS Statistical Uncertainty in Borehole Potassium Running Average	0.000681538	
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
SHT	Surface Hole Temperature	68	DEGF
TD	Total Depth	11469.8	FT
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.0028	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.979432	

MCM

DIT-E	9C1-303	DTA-A	9C1-303
HLDS	9C1-303	NPLC-B	9C1-303
APS-BA	9C1-303	HNGS-BA	9C1-303
DTC-H	9C1-303		

Output DLIS Files

DEFAULT	DITE .014	FN:15	PRODUCER	09-Apr-2000 23:17
DITE_CUST	DITE .014	FN:16	PRODUCER	09-Apr-2000 23:17

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Hostile Litho-Density Sonde Wellsite Calibration - Background Measurement							
Master: 10-MAR-2000 10:06 Before: 17-MAR-2000 18:41 After: 10-APR-2000 3:27							
SS Total Countrate Bkg	1645	1446	1441	1445	3.925	80.00	CPS
SS HV Measured Bkg	1100	1077	1070	1071	1.198	80.00	V
SS Cs Centroid Bkg	661.0	661.3	661.0	661.1	0.1165	1.500	KEV
SS Cs Resolution Bkg	9.000	8.490	8.564	8.541	-0.02354	1.800	%
LS Total Countrate Bkg	1645	1468	1467	1470	3.281	80.00	CPS
LS HV Measured Bkg	1100	1195	1190	1189	-1.689	80.00	V
LS Cs Centroid Bkg	661.0	661.3	661.2	661.3	0.09393	1.500	KEV
LS Cs Resolution Bkg	9.000	8.744	8.772	8.775	0.003606	1.800	%
Hostile Litho-Density Sonde Wellsite Calibration - Caliper Calibration							
Before: 17-MAR-2000 19:48							
HLDS Caliper Small Ring	8.000	N/A	9.714	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	12.00	N/A	13.89	N/A	N/A	N/A	IN
Accelerator-Porosity Tool Wellsite Calibration - Detector Background							
Master: 2-FEB-2000 21:50 Before: 9-APR-2000 22:25 After: 10-APR-2000 1:44							
Near Det Bkg Cntrate	30.00	32.07	32.52	32.72	0.1994	N/A	CPS
Far Det Bkg Cntrate	30.00	32.19	34.17	33.20	-0.9641	N/A	CPS
Array-1 Det Bkg Cntrate	30.00	28.58	29.26	28.48	-0.7808	N/A	CPS
Array-2 Det Bkg Cntrate	30.00	30.06	29.16	30.29	1.130	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	33.94	30.88	34.29	3.405	N/A	CPS
Accelerator-Porosity Tool Wellsite Calibration - Detector Plateau Settings							
Master: 2-FEB-2000 20:07							
Near Detector Plateau Setting	1650	1762	N/A	N/A	N/A	N/A	V
Far Detector Plateau Setting	2000	2069	N/A	N/A	N/A	N/A	V
Array Detector Plateau Setting	2000	1987	N/A	N/A	N/A	N/A	V
Accelerator-Porosity Tool Wellsite Calibration - Calibration Ratios							
Master: 2-FEB-2000 21:50							
Near/Far Calibration Ratio	0.9250	0.9031	N/A	N/A	N/A	N/A	
Near/Array Calibration Ratio	1.030	1.068	N/A	N/A	N/A	N/A	
Accelerator-Porosity Tool Master Calibration - Tank Check							
Master: 2-FEB-2000 21:50							
Array-1 Standoff Porosity	10.25	11.71	--	--	--	--	PU
Array-2 Standoff Porosity	10.25	11.59	--	--	--	--	PU
Sigma Formation	27.50	27.75	--	--	--	--	CU
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 1 Check							
Master: 2-FEB-2000 11:55 Before: 17-MAR-2000 18:42 After: 10-APR-2000 3:28							
Na 511 Peak Loc	40.00	40.51	40.70	40.60	-0.1080	1.000	
Na 511 Peak Res	15.50	15.86	15.41	16.04	0.6325	2.000	%
High Voltage	1150	1114	1112	1112	0.5459	30.00	V
Na 1785 Peak Loc	142.6	145.5	145.3	146.8	1.473	7.000	
Na 1785 Peak Res	8.500	9.054	8.948	7.937	-1.011	2.000	%
Temperature	15.50	8.268	21.55	17.81	-3.734	N/A	DEGC
Na Count Rate	45.00	28.90	27.69	27.71	0.01389	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 2 Check							
Master: 2-FEB-2000 11:55 Before: 17-MAR-2000 18:42 After: 10-APR-2000 3:28							
Na 511 Peak Loc	40.00	40.64	40.50	40.53	0.03549	1.000	
Na 511 Peak Res	15.50	14.00	15.27	15.72	0.4516	2.000	%
High Voltage	1150	1201	1200	1198	-2.570	30.00	V
Na 1785 Peak Loc	142.6	144.2	145.0	144.6	-0.3656	7.000	
Na 1785 Peak Res	8.500	8.101	8.587	8.197	-0.3896	2.000	%
Temperature	15.50	7.197	20.53	17.81	-2.712	N/A	DEGC
Na Count Rate	45.00	29.49	28.21	28.18	0.03695	8.000	CPS

Na Count Rate	45.00	29.49	28.21	28.18	-0.02695	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Ratio Of Detector 1 To Detector 2
Master: 2-FEB-2000 11:55 Before: 17-MAR-2000 18:42 After: 10-APR-2000 3:28

Coincidence Count Rate Ratio	1.000	0.9809	0.9840	0.9829	-0.001040	0.05000	

Hostile Natural Gamma Ray Sonde Master Calibration - Detector 1 Calibration
Master: 2-FEB-2000 11:43

Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	211.3	--	--	--	--	
Th Peak Res	7.000	7.466	--	--	--	--	%
Background Count Rate	142.5	18.16	--	--	--	--	CPS
Gain Ratio	1.000	0.9923	--	--	--	--	

Hostile Natural Gamma Ray Sonde Master Calibration - Detector 2 Calibration
Master: 2-FEB-2000 11:43

Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	209.6	--	--	--	--	
Th Peak Res	7.000	6.194	--	--	--	--	%
Background Count Rate	142.5	20.51	--	--	--	--	CPS
Gain Ratio	1.000	0.9815	--	--	--	--	

Dual Induction - E / Equipment Identification

Primary Equipment:		
Dual Induction Sonde	DIS - HB	200
Dual Induction Cartridge	DIC - EB	171
Auxiliary Equipment:		
Mass Isolated Housing	MIH - ZA	174

Hostile Litho-Density Sonde / Equipment Identification

Primary Equipment:		
Hostile Litho Density Sonde	HLDS - D	35
Hostile Litho Density High Voltage	HLDV - D	35
Gamma Source Radioactive	GSR - Z	1846
Auxiliary Equipment:		
Hostile Litho Density Pad	HLDP - C	12
Hostile Litho Density High Voltage Housi	HEH - H	35

Hostile Litho-Density Sonde Wellsite Calibration

Background Measurement

Phase	SS Total Countrate Bkg CPS	Value
Master		1446
Before		1441
After		1445

1000 (Minimum) 1645 (Nominal) 2290 (Maximum)

Phase	SS HV Measured Bkg V	Value
Master		1077
Before		1070
After		1071

800.0 (Minimum) 1100 (Nominal) 1400 (Maximum)

Phase	SS PSC DAC Value Bkg	Value
Master		15060
Before		15540
After		15820

14100 (Minimum) 16000 (Nominal) 20000 (Maximum)

Phase	SS Cs Centroid Bkg KEV	Value
Master		661.3
Before		661.0
After		661.1

656.0 (Minimum) 661.0 (Nominal) 666.0 (Maximum)

Phase	SS Cs Resolution Bkg %	Value
Master		8.490
Before		8.564
After		8.541

7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)

Phase	LS Total Countrate Bkg CPS	Value
Master		1468
Before		1467
After		1470

1000 (Minimum) 1645 (Nominal) 2290 (Maximum)

Phase	LS HV Measured Bkg V	Value
Master		1195
Before		1190
After		1189

800.0 (Minimum) 1100 (Nominal) 1400 (Maximum)

Phase	LS PSC DAC Value Bkg	Value
Master		16550
Before		16970
After		17350

14100 (Minimum) 16000 (Nominal) 20000 (Maximum)

Phase	LS Cs Centroid Bkg KEV	Value
Master		661.3
Before		661.2
After		661.3

656.0 (Minimum) 661.0 (Nominal) 666.0 (Maximum)

Phase	LS Cs Resolution Bkg %	Value
Master		8.744

Phase	LSW1 Background CPS	Value
Master		87.58

Phase	LSW2 Background CPS	Value
Master		82.28

Phase		Value
Before		8.772
After		8.775

7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)

Phase	LSW4 Background CPS	Value
Master		219.3
Before		219.2
After		220.6

55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)

Phase	LSW5 Background CPS	Value
Master		502.6
Before		504.5
After		502.0

330.0 (Minimum) 600.0 (Nominal) 830.0 (Maximum)

Phase	SSW1 Background CPS	Value
Master		88.30
Before		88.74
After		88.36

55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)

Phase	SSW2 Background CPS	Value
Master		157.6
Before		157.4
After		157.5

100.0 (Minimum) 200.0 (Nominal) 260.0 (Maximum)

Phase	SSW3 Background CPS	Value
Master		422.5
Before		421.0
After		421.1

280.0 (Minimum) 500.0 (Nominal) 700.0 (Maximum)

Phase	SSW4 Background CPS	Value
Master		223.9
Before		222.0
After		223.8

150.0 (Minimum) 270.0 (Nominal) 380.0 (Maximum)

Phase	SSW5 Background CPS	Value
Master		163.1
Before		162.9
After		163.6

110.0 (Minimum) 200.0 (Nominal) 270.0 (Maximum)

Master: 10-MAR-2000 10:06 Before: 17-MAR-2000 18:41 After: 10-APR-2000 3:27

Hostile Litho-Density Sonde Master Calibration

Detector Background Measurement

Phase	LSW1 Background CPS	Value
Master		87.58

55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)

Phase	LSW2 Background CPS	Value
Master		82.28

50.00 (Minimum) 100.0 (Nominal) 140.0 (Maximum)

Phase	LSW3 Background CPS	Value
Master		180.2

110.0 (Minimum) 200.0 (Nominal) 290.0 (Maximum)

Phase	LSW4 Background CPS	Value
Master		219.3

140.0 (Minimum) 250.0 (Nominal) 360.0 (Maximum)

Phase	LSW5 Background CPS	Value
Master		502.6

330.0 (Minimum) 600.0 (Nominal) 830.0 (Maximum)

Phase	LS Cs Resolution Bkg %	Value
Master		8.744

7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)

Phase	SSW1 Background CPS	Value
Master		88.30

55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)

Phase	SSW2 Background CPS	Value
Master		157.6

100.0 (Minimum) 200.0 (Nominal) 260.0 (Maximum)

Phase	SSW3 Background CPS	Value
Master		422.5

280.0 (Minimum) 500.0 (Nominal) 700.0 (Maximum)

Phase	SSW4 Background CPS	Value
Master		223.9

150.0 (Minimum) 270.0 (Nominal) 380.0 (Maximum)

Phase	SSW5 Background CPS	Value
Master		163.1

110.0 (Minimum) 200.0 (Nominal) 270.0 (Maximum)

Phase	SS Cs Resolution Bkg %	Value
Master		8.490

7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)

Master: 10-MAR-2000 10:06

Hostile Litho-Density Sonde Master Calibration

Detector Aluminum Measurement (bkgd-subtracted)

Phase	LSW1 Aluminum CPS	Value
Master		582.8

420.0 (Minimum) 600.0 (Nominal) 700.0 (Maximum)

Phase	LSW2 Aluminum CPS	Value
Master		846.4

650.0 (Minimum) 900.0 (Nominal) 1050 (Maximum)

Phase	LSW3 Aluminum CPS	Value
Master		1038

800.0 (Minimum) 1100 (Nominal) 1300 (Maximum)

Phase	LSW4 Aluminum CPS	Value
Master		521.8

410.0 (Minimum) 580.0 (Nominal) 670.0 (Maximum)

Phase	LSW5 Aluminum CPS	Value
Master		503.1

410.0 (Minimum) 570.0 (Nominal) 660.0 (Maximum)

Phase	LS Cs Resolution Al %	Value
Master		8.769

7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)

Phase	SSW1 Aluminum CPS	Value
Master		2302

2000 (Minimum) 2800 (Nominal) 3200 (Maximum)

Phase	SSW2 Aluminum CPS	Value
Master		6741

5800 (Minimum) 8000 (Nominal) 9300 (Maximum)

Phase	SSW3 Aluminum CPS	Value
Master		9846

8300 (Minimum) 11600 (Nominal) 13500 (Maximum)

Phase	SSW4 Aluminum CPS	Value
Master		4263

3500 5000 5800

Phase	SSW5 Aluminum CPS	Value
Master		614.4

470.0 660.0 770.0

Phase	SS Cs Resolution Al %	Value
Master		8.321

7.000 9.000 11.00

(Minimum)	(Nominal)	(Maximum)	(Minimum)	(Nominal)	(Maximum)	(Minimum)	(Nominal)	(Maximum)

Master: 10-MAR-2000 10:32

Hostile Litho-Density Sonde Master Calibration

Detector Litholog Measurement (bkgd-subtracted)

Phase	LSW1 Iron CPS	Value	Phase	LSW2 Iron CPS	Value	Phase	LSW3 Iron CPS	Value
Master		390.1	Master		675.7	Master		916.0
	290.0 (Minimum) 400.0 (Nominal) 470.0 (Maximum)			520.0 (Minimum) 730.0 (Nominal) 850.0 (Maximum)			720.0 (Minimum) 1000 (Nominal) 1160 (Maximum)	

Phase	LSW4 Iron CPS	Value	Phase	LSW5 Iron CPS	Value	Phase	LS Cs Resolution Al + Fe %	Value
Master		480.4	Master		458.6	Master		8.711
	370.0 (Minimum) 520.0 (Nominal) 600.0 (Maximum)			340.0 (Minimum) 470.0 (Nominal) 550.0 (Maximum)			7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)	

Phase	SSW1 Iron CPS	Value	Phase	SSW2 Iron CPS	Value	Phase	SSW3 Iron CPS	Value
Master		1724	Master		5643	Master		9018
	1500 (Minimum) 2100 (Nominal) 2400 (Maximum)			4900 (Minimum) 6800 (Nominal) 7900 (Maximum)			7800 (Minimum) 10800 (Nominal) 12600 (Maximum)	

Phase	SSW4 Iron CPS	Value	Phase	SSW5 Iron CPS	Value	Phase	SS Cs Resolution Al + Fe %	Value
Master		3917	Master		546.4	Master		8.344
	3300 (Minimum) 4600 (Nominal) 5400 (Maximum)			420.0 (Minimum) 580.0 (Nominal) 680.0 (Maximum)			7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)	

Master: 10-MAR-2000 10:27

Hostile Litho-Density Sonde Master Calibration

Quality Ratios

Phase	AL CALIBRATION RATIO 1	Value	Phase	AL CALIBRATION RATIO 2	Value	Phase	AL CALIBRATION RATIO 3	Value
Master		1.012	Master		2.019	Master		0.5686
	0.9000 (Minimum) 1.000 (Nominal) 1.100 (Maximum)			1.800 (Minimum) 2.000 (Nominal) 2.200 (Maximum)			0.4500 (Minimum) 0.5500 (Nominal) 0.6500 (Maximum)	

Phase	AL CALIBRATION RATIO 4	Value	Phase	Pad-Wear SS Ratio	Value	Phase	Pad-Wear LS Ratio	Value
Master		0.4720	Master	EXCEEDS LIMIT	0.9962	Master	EXCEEDS LIMIT	0.9729
	0.4000 (Minimum) 0.5000 (Nominal) 0.6000 (Maximum)			0.9800 (Minimum) 0.9880 (Nominal) 0.9960 (Maximum)			0.9800 (Minimum) 0.9880 (Nominal) 0.9960 (Maximum)	

Phase	Pad-Position SS Ratio	Value	Phase	Pad-Position LS Ratio	Value
Master		1.003	Master		0.9942
	0.9900 (Minimum) 0.9940 (Nominal) 1.015 (Maximum)			0.9850 (Minimum) 0.9940 (Nominal) 1.010 (Maximum)	

See Remarks

Master: 10-MAR-2000 10:22

Nuclear Porosity Lithology Cartridge - B / Equipment Identification

Primary Equipment:		
NPLC Cartridge	NPLC - B	82
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

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		32.07	Master		32.19	Master		28.58
Before		32.52	Before		34.17	Before		29.26

Phase		Value
After		32.72
	0 (Minimum) 30.00 (Nominal) 50.00 (Maximum)	

Phase		Value
After		33.20
	0 (Minimum) 30.00 (Nominal) 50.00 (Maximum)	

Phase		Value
After		28.48
	0 (Minimum) 30.00 (Nominal) 50.00 (Maximum)	

Phase	Array-2 Det Bkg Cntrate CPS	Value
Master		30.06
Before		29.16
After		30.29
	0 (Minimum) 30.00 (Nominal) 50.00 (Maximum)	

Phase	Array Therm Det Bkg Cntrate CPS	Value
Master		33.94
Before		30.88
After		34.29
	0 (Minimum) 30.00 (Nominal) 50.00 (Maximum)	

Master: 2-FEB-2000 21:50 Before: 9-APR-2000 22:25 After: 10-APR-2000 1:44

Accelerator-Porosity Tool Wellsite Calibration

Detector Plateau Settings

Phase	Near Detector Plateau Setting V	Value
Master		1762
	1400 (Minimum) 1650 (Nominal) 1900 (Maximum)	

Phase	Far Detector Plateau Setting V	Value
Master		2069
	1750 (Minimum) 2000 (Nominal) 2250 (Maximum)	

Phase	Array Detector Plateau Setting V	Value
Master		1987
	1750 (Minimum) 2000 (Nominal) 2250 (Maximum)	

Master: 2-FEB-2000 20:07

Accelerator-Porosity Tool Wellsite Calibration

Calibration Ratios

Phase	Near/Far Calibration Ratio	Value
Master		0.9031
	0.8000 (Minimum) 0.9250 (Nominal) 1.050 (Maximum)	

Phase	Near/Array Calibration Ratio	Value
Master		1.068
	0.9000 (Minimum) 1.030 (Nominal) 1.150 (Maximum)	

Master: 2-FEB-2000 21:50

Accelerator-Porosity Tool Master Calibration

Detector Calibration

Phase	Near Detector Plateau Setting V	Value
Master		1762
	1400 (Minimum) 1650 (Nominal) 1900 (Maximum)	

Phase	Far Detector Plateau Setting V	Value
Master		2069
	1750 (Minimum) 2000 (Nominal) 2250 (Maximum)	

Phase	Array Detector Plateau Setting V	Value
Master		1987
	1750 (Minimum) 2000 (Nominal) 2250 (Maximum)	

Phase	Near/Far Calibration Ratio	Value
Master		0.9031
	0.8000 (Minimum) 0.9250 (Nominal) 1.050 (Maximum)	

Phase	Near/Array Calibration Ratio	Value
Master		1.068
	0.9000 (Minimum) 1.030 (Nominal) 1.150 (Maximum)	

Master: 2-FEB-2000 20:07

Accelerator-Porosity Tool Master Calibration

Tank Check

Phase	Array-1 Standoff Porosity PU	Value
Master		11.71
	5.500 (Minimum) 10.25 (Nominal) 15.00 (Maximum)	

Phase	Array-2 Standoff Porosity PU	Value
Master		11.59
	5.500 (Minimum) 10.25 (Nominal) 15.00 (Maximum)	

Phase	Sigma Formation CU	Value
Master		27.75
	20.00 (Minimum) 27.50 (Nominal) 35.00 (Maximum)	

Master: 2-FEB-2000 21:50

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
Master		40.51
Before		40.70
After		40.60

Phase	Na 511 Peak Res %	Value
Master		15.86
Before		15.41
After		16.04

Phase	High Voltage V	Value
Master		1114
Before		1112
After		1112

	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			9.054	Master			8.268
Before			145.3	Before			8.948	Before			21.55
After			146.8	After			7.937	After			17.81
	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			28.90
Before			27.69
After			27.71
	15.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)

Master: 2-FEB-2000 11:55 Before: 17-MAR-2000 18:42 After: 10-APR-2000 3:28

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 2 Check

	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 511 Peak Loc		Value	Phase	Na 511 Peak Res %		Value	Phase	High Voltage V		Value
Master			40.64	Master			14.00	Master			1201
Before			40.50	Before			15.27	Before			1200
After			40.53	After			15.72	After			1198
	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 1785 Peak Loc		Value	Phase	Na 1785 Peak Res %		Value	Phase	Temperature DEGC		Value
Master			144.2	Master			8.101	Master			7.197
Before			145.0	Before			8.587	Before			20.53
After			144.6	After			8.197	After			17.81
	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			29.49
Before			28.21
After			28.18
	15.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)

Master: 2-FEB-2000 11:55 Before: 17-MAR-2000 18:42 After: 10-APR-2000 3:28

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Ratio Of Detector 1 To Detector 2

Phase	Coincidence Count Rate Ratio		Value
Master			0.9809
Before			0.9840
After			0.9829
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)

Master: 2-FEB-2000 11:55
Before: 17-MAR-2000 18:42
After: 10-APR-2000 3:28

Hostile Natural Gamma Ray Sonde Master Calibration

Detector 1 Calibration

	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	Na 511 Peak Set Point		Value	Phase	Th Peak Loc		Value	Phase	Th Peak Res %		Value
Master			41.00	Master			211.3	Master			7.466
Phase	Background Count Rate CPS		Value	Phase	Gain Ratio		Value				
Master	EXCEEDS LIMIT		18.16	Master			0.9923				
	20.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)		0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)				

See Remarks

Master: 2-FEB-2000 11:43

Hostile Natural Gamma Ray Sonde Master Calibration

Detector 2 Calibration

Phase	Na 511 Peak Set Point	Value
Master		41.00
	38.00 (Minimum) 40.00 (Nominal) 42.00 (Maximum)	

Phase	Th Peak Loc	Value
Master		209.6
	201.0 (Minimum) 209.6 (Nominal) 218.3 (Maximum)	

Phase	Th Peak Res %	Value
Master		6.194
	5.000 (Minimum) 7.000 (Nominal) 9.000 (Maximum)	

Phase	Background Count Rate CPS	Value
Master		20.51
	20.00 (Minimum) 142.5 (Nominal) 265.0 (Maximum)	

Phase	Gain Ratio	Value
Master		0.9815
	0.9400 (Minimum) 1.000 (Nominal) 1.060 (Maximum)	

Master: 2-FEB-2000 11:43

COMPANY:	Lamont Doherty
WELL:	ODP Leg 189, Site 1170 (WSTR-2A)
FIELD:	Tasmanian Seaway, West Tasmania Site
COUNTY:	Offshore
STATE:	Indian Ocean

BOTTOM LOG INTERVAL	3477 M
SCHLUMBERGER DEPTH	3497.5 M
DEPTH DRILLER	3496 M
KELLY BUSHING	11.2 M
DRILL FLOOR	10.9 M
GROUND LEVEL	-2716 M

Schlumberger

Density/APS Porosity