

Company: Lamont Doherty

Well: Expedition 307 Site U1318B

Field: Porcupine Basin Carbonate Mounds

Rig: Joides Resolution Country: Ireland

Hostile Natural Gamma Ray

Rig: Joides Resolution
 Field: Porcupine Basin Carbonate Mounds
 Location: Expedition 307 Site U1318B
 Well: Lamont Doherty

LOCATION		Elev.:	K.B.	11.3 m
Permanent Datum:	Mean Sea Level	Elev.:	0 m	
Log Measured From:	Drill Floor		GL.	-419.8 m
Drilling Measured From:	Drill Floor		D.F.	11 m
Ocean Atlantic		Max. Well Deviation		
		Longitude	Latitude	
		11° 33.0'198"W	51° 26.1'498"N	

Logging Date	10-May-2005	
Run Number	Three	
Depth Driller	664.4 m	
Schlumberger Depth	664.5 m	
Bottom Log Interval	664 m	
Top Log Interval	419 m	
Casing Driller Size @ Depth	0.000 in @	490 m
Casing Schlumberger	490 m	
Bit Size	11.438 in	
Type Fluid In Hole	Sepiolite	
Density	1.07 g/cm ³	
Fluid Loss		
Source Of Sample		
RM @ Measured Temperature	0.322 ohm.m @	22 degC
RMF @ Measured Temperature	@	@
RMC @ Measured Temperature	@	@
Source RMF	RMC	
RM @ MRT	RMF @ MRT	
Maximum Recorded Temperatures		
Circulation Stopped	Time	Time
Logger On Bottom	10-May-2005	9:30
Unit Number	2082	13:10
Recorded By	Javier Espinosa	
Witnessed By	Philippe Galliot	

	Run 1	Run 2	Run
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			
Density			
Fluid Loss			
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	Time	
Logger On Bottom	Time		
Unit Number			
Recorded By			
Witnessed By			

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		
Density		
Fluid Loss		
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	Time
Logger On Bottom	Time	
Unit Number		
Recorded By		
Witnessed By		

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OTHER SERVICES1
 OS1: HLDS, DIT, APS
 OS2: DSI
 OS3: FMS
 OS4:
 OS5:

OTHER SERVICES2
 OS1:
 OS2:
 OS3:
 OS4:
 OS5:

REMARKS: RUN NUMBER 1
 Hole drilled with APC/XCB
 Parameters and presentations as per IODP standars
 Tool ran as per tool sketch below
 Hole flushed with sepiolite

REMARKS: RUN NUMBER 2

RUN 1
 SERVICE ORDER #:
 PROGRAM VERSION: 12C0-301
 FLUID LEVEL:

RUN 2
 SERVICE ORDER #:
 PROGRAM VERSION:
 FLUID LEVEL:

LOGGED INTERVAL	START	STOP

LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION


RUN 1



SURFACE EQUIPMENT



SFT-281 6250
 SFT-178 6250
 GSR-U 135
 WITM (DTS)-A

RUN 2

DOWNHOLE EQUIPMENT

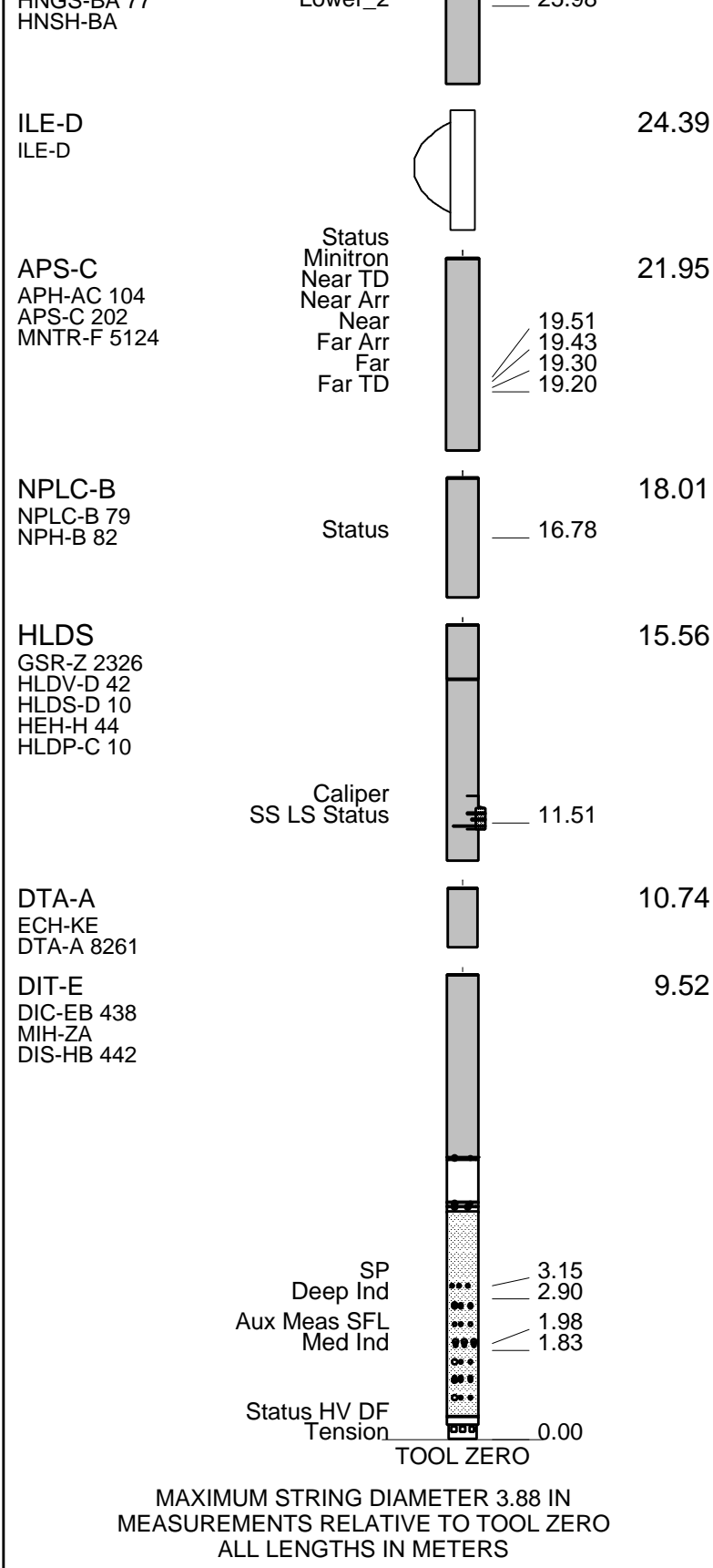
LEH-QT  28.69
 LEH-QT

DTC-H  27.52
 ECH-KC  26.89

HNGS-BA  26.19
 HNGS BA 77  25.98

CTEM
 TelStatus 27.80
 ToolStatu 26.89

Upper_1
 Lower_2 26.89



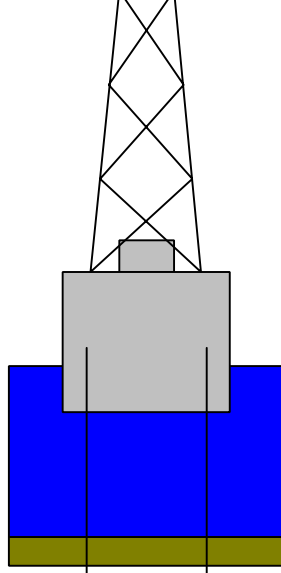
Production String	(in)	(m)	Well Schematic	(m)	(in)	Casing String
	OD	ID		MD	MD	

Kelly Bushing Elevation
Derrick Floor Elevation

11.3
11.0

Mean Sea Level

0.0



0.0 5.000

Casing String

419.0 11.475

Borehole Segment

490.0 5.000

Casing Shoe



Schlumberger

MAIN PASS

MAXIS Field Log

Company: Lamont Doherty

Well: Expedition 307 Site U1318B

Output DLIS Files

DEFAULT	PI_LDL_APS_NGS_006LUP	FN:6	PRODUCER	10-May-2005 13:04	665.2 M	377.5 M
REDUCED	PI_LDL_APS_NGS_006LUP	FN:7	PRODUCER	10-May-2005 13:04	665.2 M	377.5 M

OP System Version: 12C0-301

MCM

DIT-E	12C0-301	DTA-A	12C0-301
HLDS	12C0-301	NPLC-B	12C0-301
APS-C	12C0-301	HNGS-BA	12C0-301
DTC-H	12C0-301		

PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray

(HSGR)
0 (GAPI) 100

HNGS Det.2 Resolution Degradation
Factor (RDF2)
0 (----) 10

HNGS Det.1 Resolution Degradation
Factor (RDF1)
0 (----) 10

HNGS Det.2 Gain Correction Factor
(GCF2)
0.9 (----) 1.1

HNGS Det.1 Gain Correction Factor
(GCF1)
0.9 (----) 1.1

Area1
From HCGR to HSGR

HNGS Computed Gamma Ray (HCGR)
0 (GAPI) 100

Caliper (LCAL)
(IN)
6 (-----) 16

HLDS Caliper (LCAL)
(IN)
0 (-----) 20

HNGS Borehole Potassium (HBHK)
-0.05 (V/V) 0.05

HNGS Det.2 Chi Squared (CHI2)
10 (----) 0

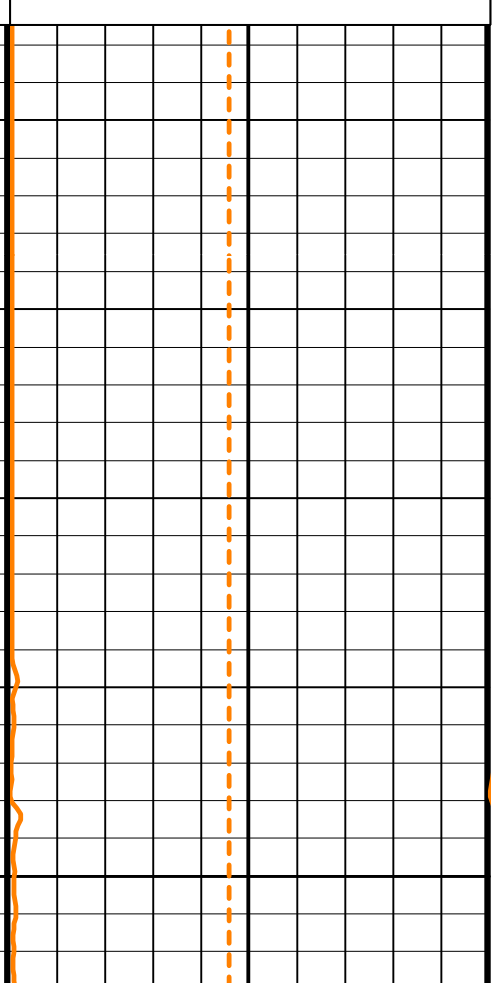
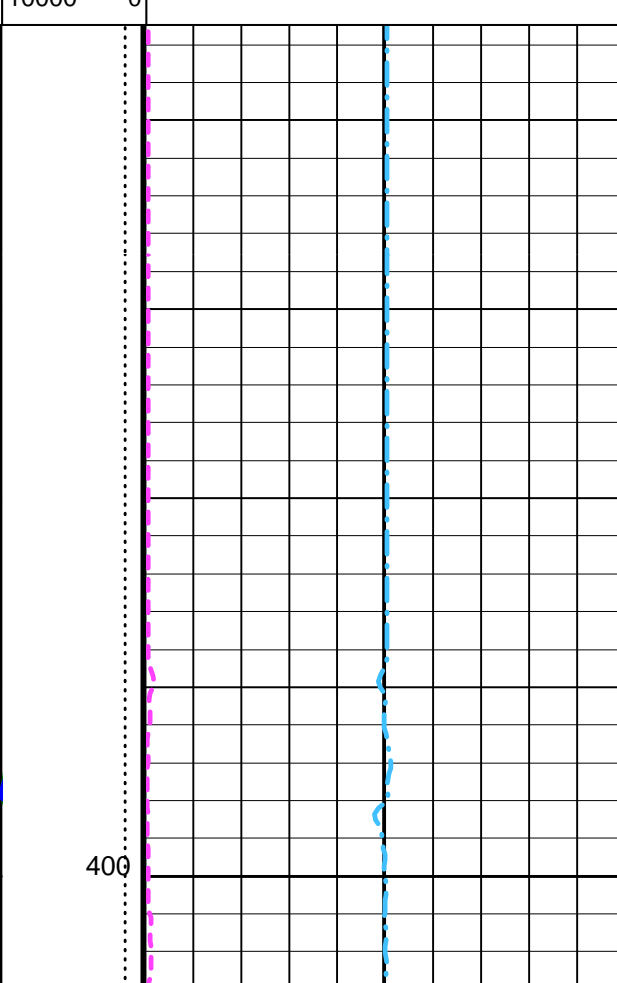
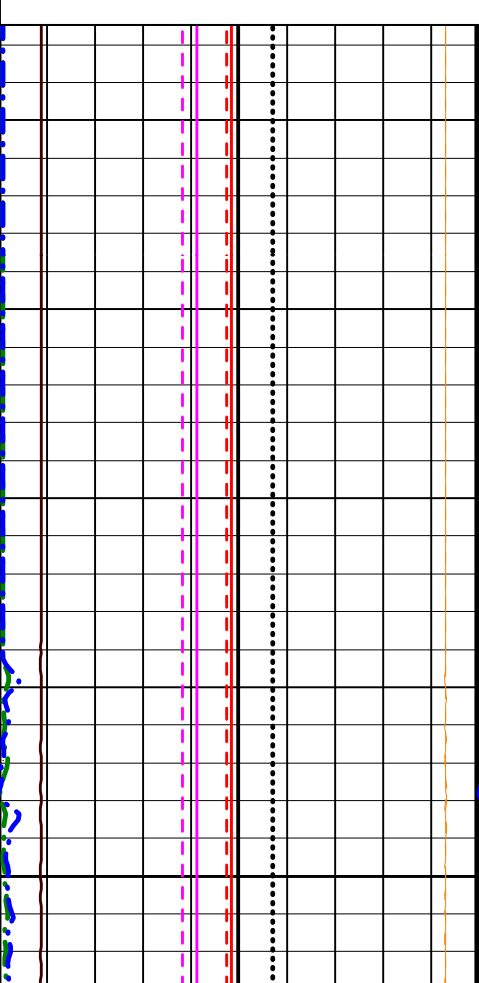
HNGS Uranium (HURA)
(PPM)
-10 (-----) 30

HNGS Det.1 Chi Squared (CHI1)
10 (----) 0

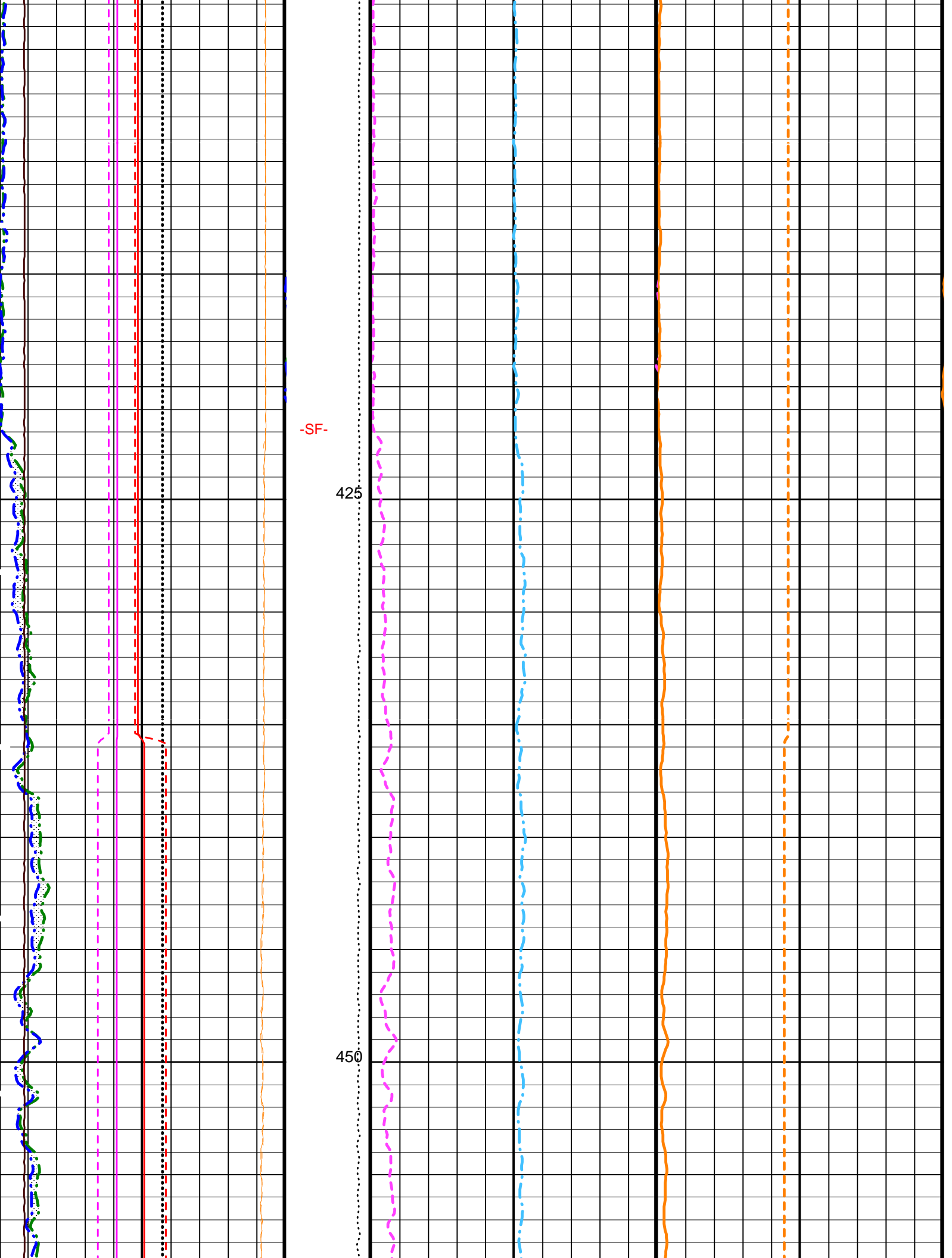
Tension
(TENS)
(LBF)
10000 0

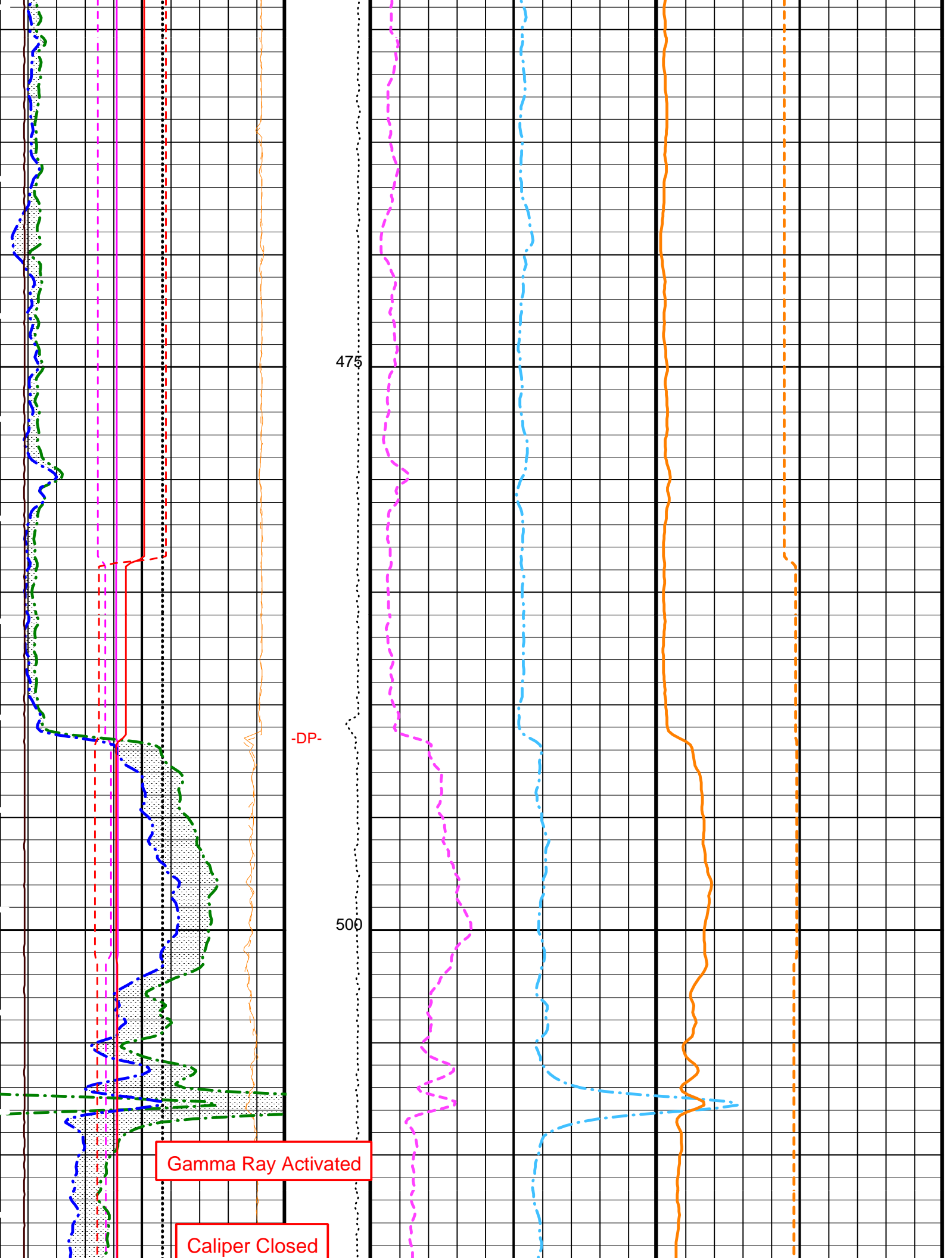
HNGS Thorium (HTHO)
(PPM)
0 (-----) 30

HNGS Potassium (HFK)
(V/V)
0 (-----) 0.1



400





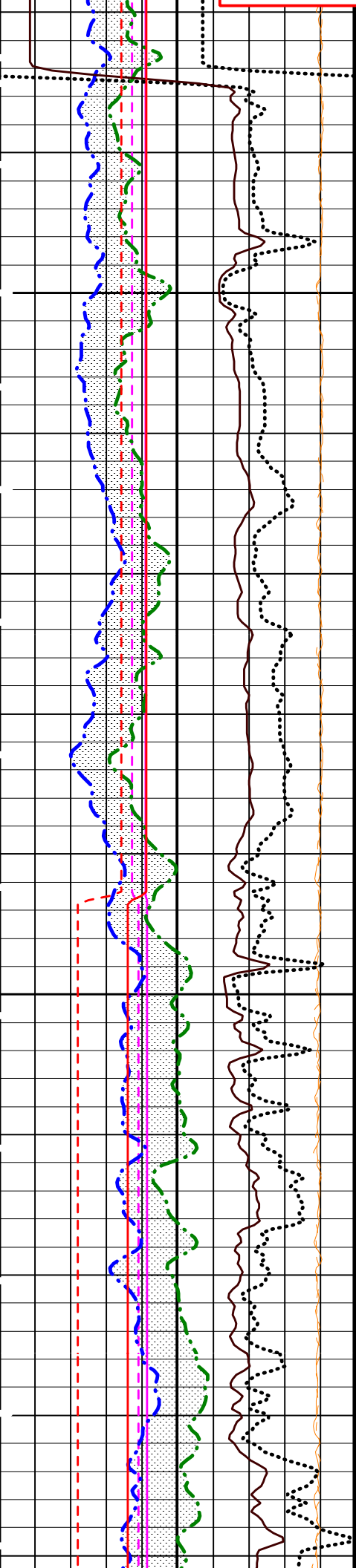
475

-DP-

500

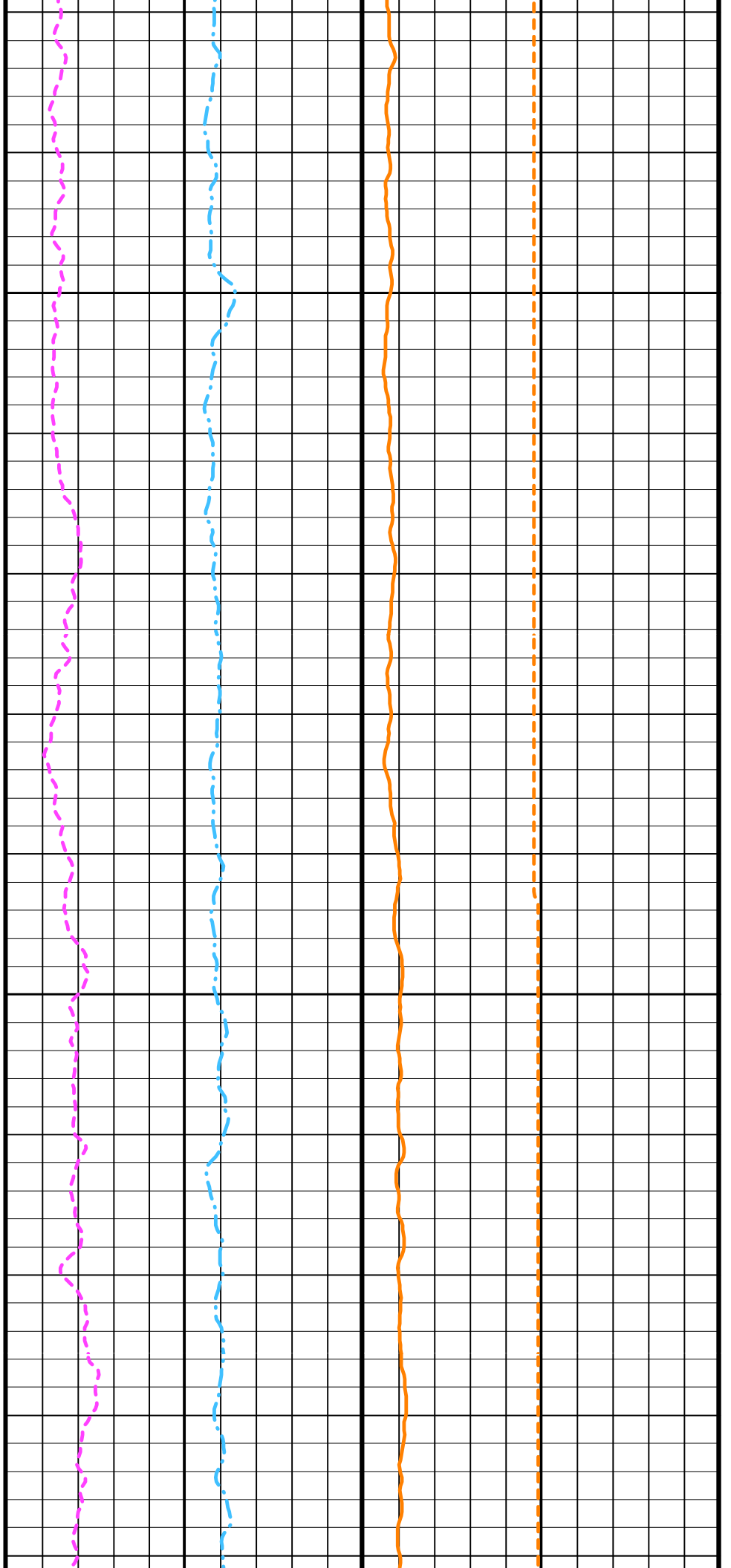
Gamma Ray Activated

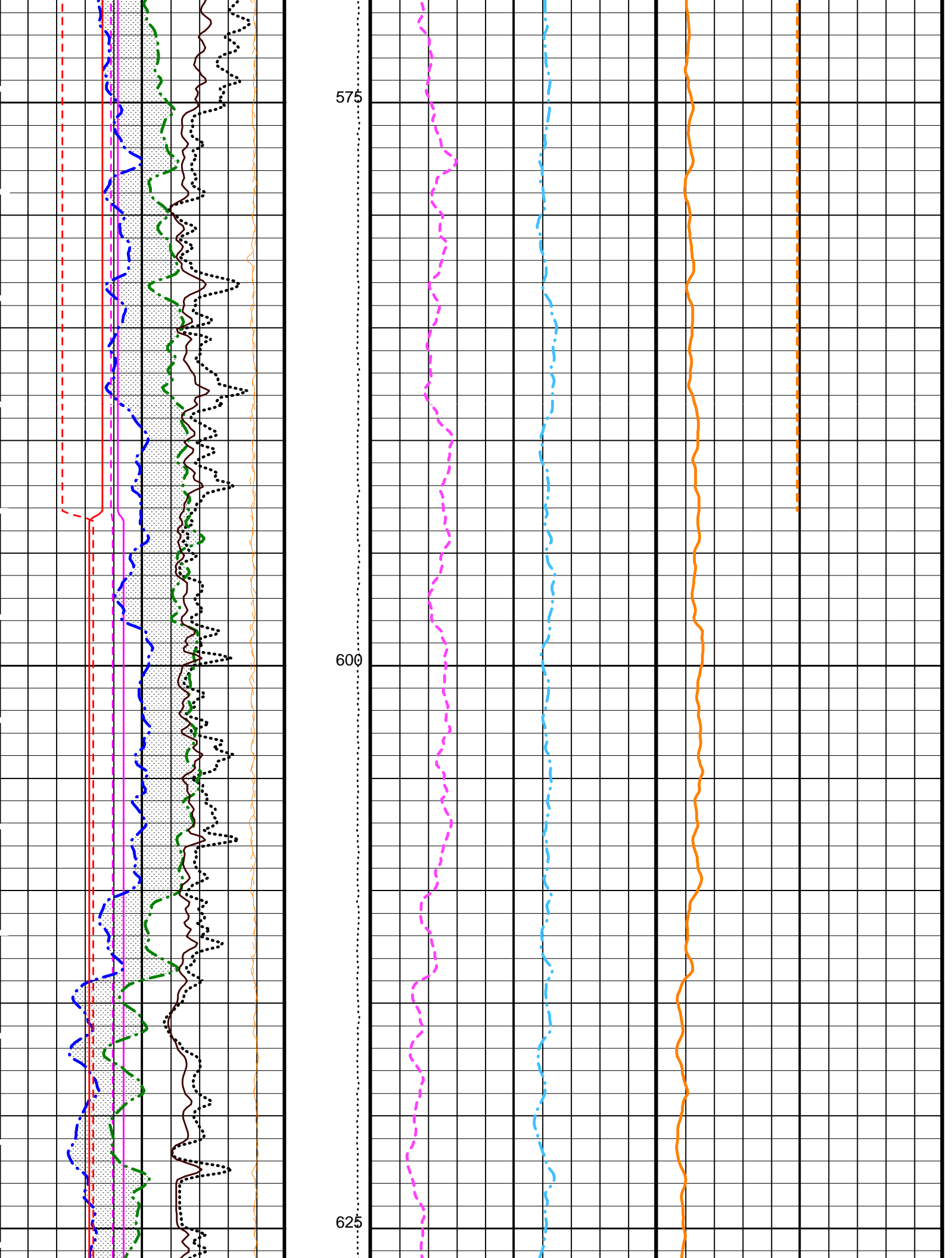
Caliper Closed

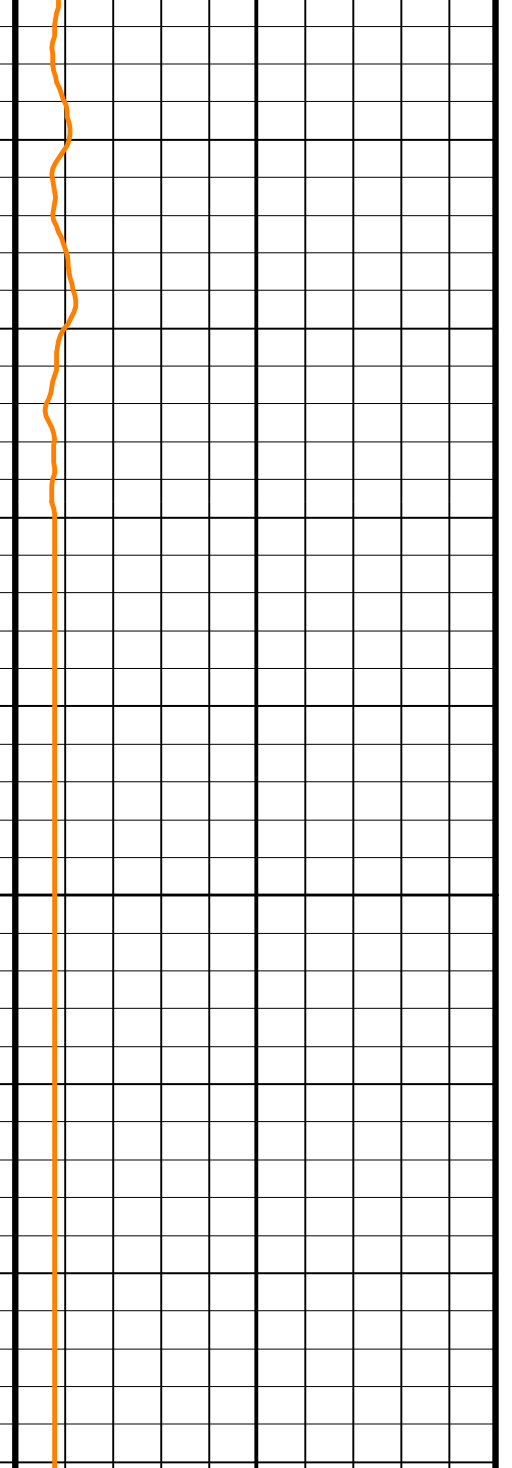
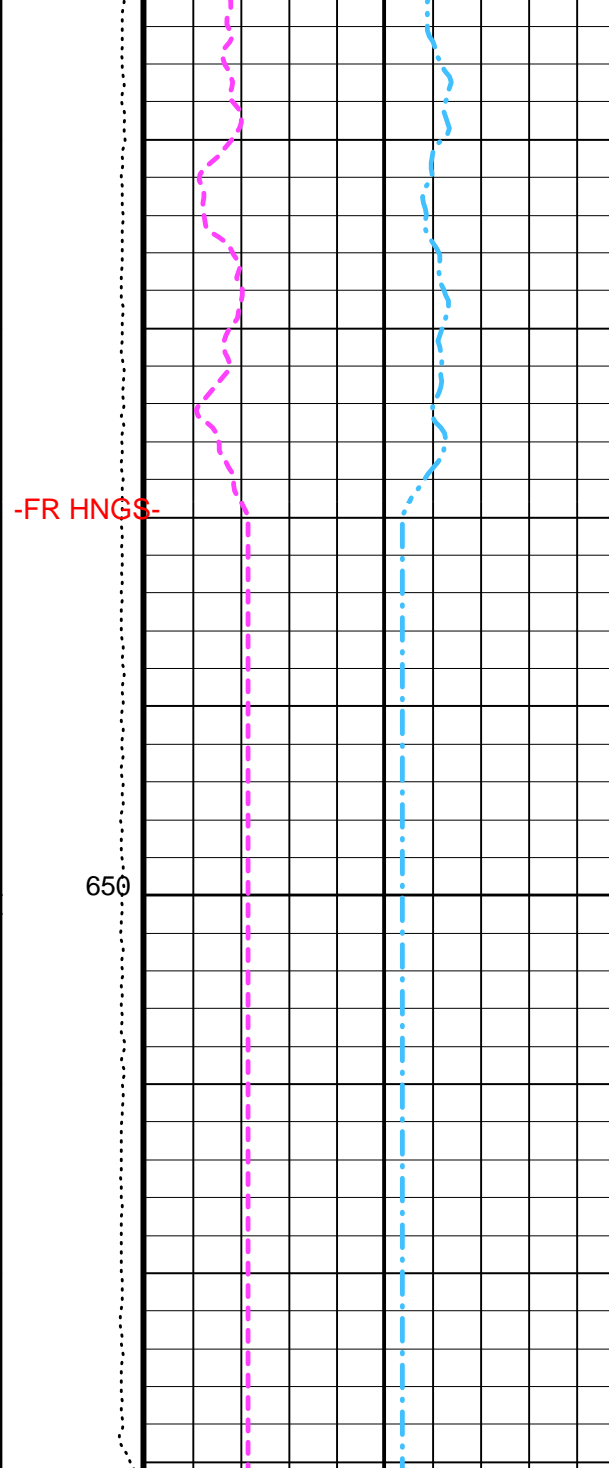
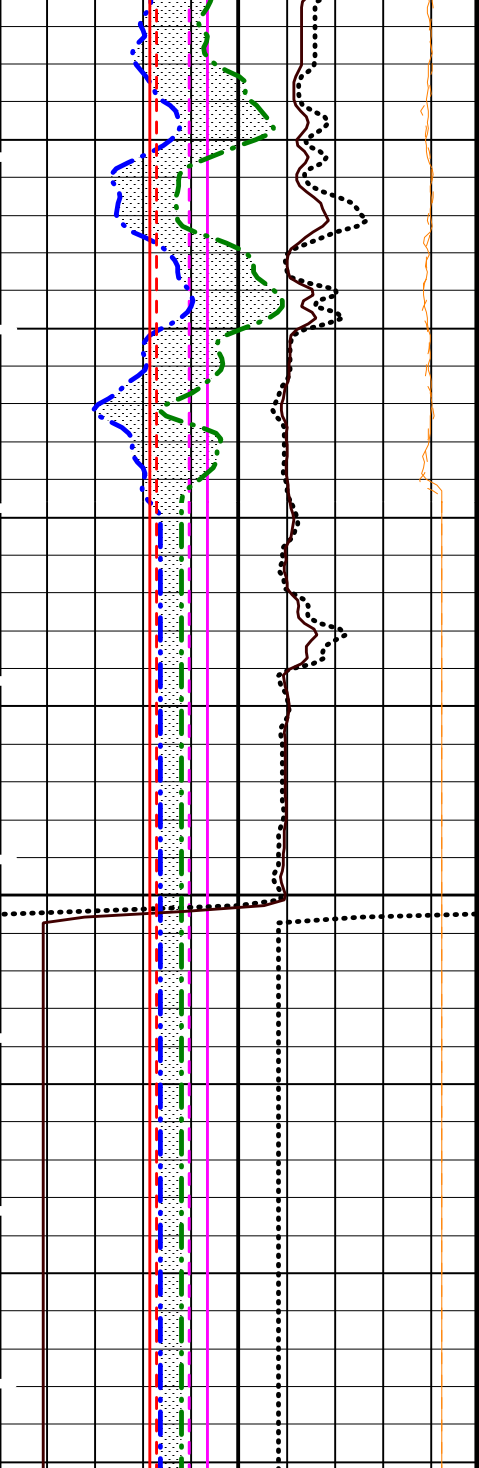


525

550







HNGS Det.1 Chi Squared (CHI1)
 10 (----) 0

Tension (TENS) (LBF)
 10000 0

HNGS Potassium (HFK)
 0 (V/V) 0.1

HNGS Det.2 Chi Squared (CHI2)
 10 (----) 0

HNGS Thorium (HTHO) (PPM)
 0 30

HNGS Uranium (HURA) (PPM)
 -10 30

HLDS Caliper (LCAL) (IN) 0 20

HNGS Borehole Potassium (HBHK) (V/V) -0.05 0.05

Caliper (LCAL) (IN) 6 16

HNGS Computed Gamma Ray (HCGR) (GAPI) 0 100

Area1 From HCGR to HSGR

HNGS Det.1 Gain Correction Factor (GCF1)

(GCF1)		
0.9	(---)	1.1
HNGS Det.2 Gain Correction Factor (GCF2)		
0.9	(---)	1.1
HNGS Det.1 Resolution Degradation Factor (RDF1)		
0	(---)	10
HNGS Det.2 Resolution Degradation Factor (RDF2)		
0	(---)	10
HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)		
0	(---)	100

PIP SUMMARY

▶ Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DIT-E: Dual Induction - E		
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	BS
APS-C: Accelerator-Porosity Tool		
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	BS
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
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	BS
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW
HABK	HNGS Borehole Potassium Running Average	-0.00268983
HALF	HNGS Alpha Filter Length	60 IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE
HMWM	Mud Weighting Material	NATU
HNPE	HNGS Processing Enable	YES
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3 CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3 CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES
TPOS	Tool Position	ECCE
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.940817
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.917494
System and Miscellaneous		
BS	Bit Size	11.438 IN
DFD	Drilling Fluid Density	1.07 G/C3

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 10-May-2005 13:05

OP System Version: 12C0-301
MCM

DIT-E	12C0-301	DTA-A	12C0-301
HLDS	12C0-301	NPLC-B	12C0-301
APS-C	12C0-301	HNGS-BA	12C0-301
DTC-H	12C0-301		

Output DLIS Files

DEFAULT	PI_LDL_APS_NGS_006LUP	FN:6	PRODUCER	10-May-2005 13:04
REDUCED	PI_LDL_APS_NGS_006LUP	FN:7	PRODUCER	10-May-2005 13:04

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Hostile Litho-Density Sonde Wellsite Calibration - Background Measurement							
Master: 13-Apr-2005 14:57 Before: 4-May-2005 10:16							
SS Cs Resolution Bkg	9.000	8.327	8.278	N/A	N/A	1.800	%
LS Cs Resolution Bkg	9.000	8.844	8.838	N/A	N/A	1.800	%
LSW1 Background	100.0	85.93	84.50	N/A	N/A	3.000	CPS
LSW2 Background	100.0	79.37	78.34	N/A	N/A	3.000	CPS
LSW3 Background	200.0	173.9	172.4	N/A	N/A	6.000	CPS
LSW4 Background	250.0	212.7	211.2	N/A	N/A	7.500	CPS
LSW5 Background	600.0	496.4	493.5	N/A	N/A	18.00	CPS
SSW1 Background	100.0	84.01	84.96	N/A	N/A	3.000	CPS
SSW2 Background	200.0	151.0	153.7	N/A	N/A	6.000	CPS
SSW3 Background	500.0	416.8	414.9	N/A	N/A	15.00	CPS
SSW4 Background	270.0	219.0	219.7	N/A	N/A	8.100	CPS
SSW5 Background	200.0	159.0	158.9	N/A	N/A	6.000	CPS
Hostile Litho-Density Sonde Wellsite Calibration - Aluminum Measurement							
Master: 13-Apr-2005 15:41							
LSW1 Aluminum	600.0	631.9	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	923.0	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	1128	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	571.2	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	531.9	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	3024	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	8390	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	11660	N/A	N/A	N/A	N/A	CPS
SSW4 Aluminum	5000	4884	N/A	N/A	N/A	N/A	CPS
SSW5 Aluminum	660.0	644.8	N/A	N/A	N/A	N/A	CPS
Hostile Litho-Density Sonde Wellsite Calibration - Lithology Measurement							
Master: 13-Apr-2005 15:35							
LSW1 Iron	400.0	430.0	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	733.6	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	986.9	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	515.9	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	489.1	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	2212	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	6952	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	10570	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	4424	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	563.2	N/A	N/A	N/A	N/A	CPS
Hostile Litho-Density Sonde Wellsite Calibration - Caliper Calibration							
Before: 4-May-2005 10:20							
HLDS Caliper Small Ring	8.000	N/A	10.61	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	12.00	N/A	14.67	N/A	N/A	N/A	IN
Accelerator-Porosity Tool Wellsite Calibration - Detector Background							
Master: 22-Mar-2005 20:56 Before: 4-May-2005 10:17							
Near Det Bkg Cntrate	30.00	25.38	25.71	N/A	N/A	N/A	CPS
Far Det Bkg Cntrate	30.00	25.40	26.37	N/A	N/A	N/A	CPS
Array-1 Det Bkg Cntrate	30.00	28.70	26.09	N/A	N/A	N/A	CPS
Array-2 Det Bkg Cntrate	30.00	25.69	27.22	N/A	N/A	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	25.67	24.20	N/A	N/A	N/A	CPS
Accelerator-Porosity Tool Wellsite Calibration - Calibration Ratios							
Master: 22-Mar-2005 20:56							
Near/Far Calibration Ratio	0.9250	0.9625	N/A	N/A	N/A	N/A	
Near/Array Calibration Ratio	1.030	0.9914	N/A	N/A	N/A	N/A	
Near/Array Cal Ratio Up/Down	1.000	0.9985	N/A	N/A	N/A	N/A	

Accelerator-Porosity Tool Wellsite Calibration - Tank Check

Master: 22-Mar-2005 20:56

Array-1 Standoff Porosity	11.75	11.97	N/A	N/A	N/A	N/A	PU
Array-2 Standoff Porosity	11.75	11.85	N/A	N/A	N/A	N/A	PU
Average Slowing Down Time	6.000	5.825	N/A	N/A	N/A	N/A	US
Array-1 SDT Ratio Up/Down	1.000	0.9952	N/A	N/A	N/A	N/A	
Array-2 SDT Ratio Up/Down	1.000	1.006	N/A	N/A	N/A	N/A	
Sigma Formation	27.50	27.53	N/A	N/A	N/A	N/A	CU

Accelerator-Porosity Tool Wellsite Calibration - CCR7 signal boxes

Master: 22-Mar-2005 20:56

Near Detector Plateau Setting	1650	1741	N/A	N/A	N/A	N/A	V
Far Detector Plateau Setting	2000	2082	N/A	N/A	N/A	N/A	V
Array Detector Plateau Setting	2000	1973	N/A	N/A	N/A	N/A	V

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 1 Check

Master: 4-May-2005 10:11 Before: 4-May-2005 10:17

Na 511 Peak Loc	40.00	40.62	40.84	N/A	N/A	1.000	
Na 511 Peak Res	15.50	16.96	15.95	N/A	N/A	2.000	%
High Voltage	1150	1255	1255	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	144.8	144.7	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	9.982	9.411	N/A	N/A	2.000	%
Temperature	15.50	18.00	18.01	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	42.26	42.82	N/A	N/A	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 2 Check

Master: 4-May-2005 10:11 Before: 4-May-2005 10:17

Na 511 Peak Loc	40.00	40.54	40.56	N/A	N/A	1.000	
Na 511 Peak Res	15.50	16.66	16.93	N/A	N/A	2.000	%
High Voltage	1150	1274	1275	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	144.2	144.8	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	9.777	9.984	N/A	N/A	2.000	%
Temperature	15.50	17.18	17.20	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	42.45	43.34	N/A	N/A	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Ratio Of Detector 1 To Detector 2

Master: 4-May-2005 10:11 Before: 4-May-2005 10:17

Coincidence Count Rate Ratio	1.000	0.9936	0.9895	N/A	N/A	0.05000	
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Hostile Natural Gamma Ray Sonde Master Calibration - Detector 1 Calibration

Master: 4-May-2005 10:06

Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	208.9	--	--	--	--	
Th Peak Res	7.000	8.099	--	--	--	--	%
Background Count Rate	142.5	21.35	--	--	--	--	CPS
Gain Ratio	1.000	0.9786	--	--	--	--	

Hostile Natural Gamma Ray Sonde Master Calibration - Detector 2 Calibration

Master: 4-May-2005 10:06

Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	207.3	--	--	--	--	
Th Peak Res	7.000	8.237	--	--	--	--	%
Background Count Rate	142.5	22.15	--	--	--	--	CPS
Gain Ratio	1.000	0.9731	--	--	--	--	

Accelerator-Porosity Tool - Detector Plateau Settings :

Near Detector Plateau Setting	1741 V
Far Detector Plateau Setting	2082 V
Array Detector Plateau Setting	1973 V

Dual Induction - E / Equipment Identification

Primary Equipment:

Dual Induction Sonde	DIS - HB	442
Dual Induction Cartridge	DIC - EB	438

Auxiliary Equipment:

Mass Isolated Housing	MIH - ZA	
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Dual Induction - E Wellsite Calibration

Induction Electronics (10 kHz)

Phase	ID Elect Real Offset 10 kHz	MM/M	Value	Phase	ID Elect Real Gain 10 kHz	Value	Phase	ID Elect Phase 10 kHz	DEG	Value
Before			20.56	Before		1.015	Before			8.777

Before	-260.8 (Minimum)	39.24 (Nominal)	339.2 (Maximum)	39.36	Before	0.8596 (Minimum)	1.010 (Nominal)	1.214 (Maximum)	1.013	Before	-0.7861 (Minimum)	9.214 (Nominal)	19.21 (Maximum)	6.777
Phase	ID Elect Quad Offset 10 kHz	MM/M	Value		Phase	ID Elect Quad Gain 10 kHz	Value			Phase	IM Elect Phase 10 kHz	DEG	Value	
Before			24.27		Before		1.003			Before			13.38	
Phase	IM Elect Real Offset 10 kHz	MM/M	Value		Phase	IM Elect Real Gain 10 kHz	Value							
Before			98.11		Before		0.9546							
Phase	IM Elect Quad Offset 10 kHz	MM/M	Value		Phase	IM Elect Quad Gain 10 kHz	Value							
Before			96.48		Before		0.9518							
Before: 4-May-2005 10:14														

Dual Induction - E Wellsite Calibration														
Induction Electronics (20 kHz)														
Phase	ID Elect Real Offset 20 kHz	MM/M	Value		Phase	ID Elect Real Gain 20 kHz	Value			Phase	ID Elect Phase 20 kHz	DEG	Value	
Before			15.30		Before		1.020			Before			7.291	
	-109.9 (Minimum)	15.07 (Nominal)	140.1 (Maximum)			0.8601 (Minimum)	1.010 (Nominal)	1.214 (Maximum)			-7.449 (Minimum)	7.551 (Nominal)	22.55 (Maximum)	
Phase	ID Elect Quad Offset 20 kHz	MM/M	Value		Phase	ID Elect Quad Gain 20 kHz	Value			Phase	IM Elect Phase 20 kHz	DEG	Value	
Before			9.570		Before		1.008			Before			12.09	
	-115.6 (Minimum)	9.373 (Nominal)	134.4 (Maximum)			0.8497 (Minimum)	0.9997 (Nominal)	1.200 (Maximum)			-2.658 (Minimum)	12.34 (Nominal)	27.34 (Maximum)	
Phase	IM Elect Real Offset 20 kHz	MM/M	Value		Phase	IM Elect Real Gain 20 kHz	Value							
Before			40.87		Before		1.012							
	-184.8 (Minimum)	40.18 (Nominal)	265.2 (Maximum)			0.8536 (Minimum)	1.004 (Nominal)	1.205 (Maximum)						
Phase	IM Elect Quad Offset 20 kHz	MM/M	Value		Phase	IM Elect Quad Gain 20 kHz	Value							
Before			40.29		Before		1.009							
	-185.4 (Minimum)	39.62 (Nominal)	264.6 (Maximum)			0.8510 (Minimum)	1.001 (Nominal)	1.201 (Maximum)						
Before: 4-May-2005 10:15														

Dual Induction - E Wellsite Calibration														
Induction Electronics (40 kHz)														
Phase	ID Elect Real Offset 40 kHz	MM/M	Value		Phase	ID Elect Real Gain 40 kHz	Value			Phase	ID Elect Phase 40 kHz	DEG	Value	
Before			9.904		Before		0.9918			Before			27.05	
	-75.27 (Minimum)	9.729 (Nominal)	94.73 (Maximum)			0.8369 (Minimum)	0.9869 (Nominal)	1.182 (Maximum)			7.238 (Minimum)	27.24 (Nominal)	47.24 (Maximum)	
Phase	ID Elect Quad Offset 40 kHz	MM/M	Value		Phase	ID Elect Quad Gain 40 kHz	Value			Phase	IM Elect Phase 40 kHz	DEG	Value	
Before			6.161		Before		0.9789			Before			31.69	
	-78.94 (Minimum)	6.062 (Nominal)	91.06 (Maximum)			0.8259 (Minimum)	0.9759 (Nominal)	1.166 (Maximum)			11.87 (Minimum)	31.87 (Nominal)	51.87 (Maximum)	
Phase	IM Elect Real Offset 40 kHz	MM/M	Value		Phase	IM Elect Real Gain 40 kHz	Value							
Before			26.63		Before		1.026							
	-103.8 (Minimum)	26.23 (Nominal)	156.2 (Maximum)			0.8659 (Minimum)	1.016 (Nominal)	1.222 (Maximum)						
Phase	IM Elect Quad Offset 40 kHz	MM/M	Value		Phase	IM Elect Quad Gain 40 kHz	Value							
Before			26.34		Before		1.023							
	-104.1 (Minimum)	25.93 (Nominal)	155.9 (Maximum)			0.8629 (Minimum)	1.013 (Nominal)	1.218 (Maximum)						
Before: 4-May-2005 10:16														

Dual Induction - E Wellsite Calibration														
SFL Electronics														
Phase	SFL Voltage Offset	MV	Value		Phase	SFL Voltage Gain	Value							
Before			1.275		Before		1.018							
	-15.00 (Minimum)	0 (Nominal)	15.00 (Maximum)			0.8500 (Minimum)	1.000 (Nominal)	1.200 (Maximum)						
Phase	SFL Current Offset	MA	Value		Phase	SFL Current Gain	Value							
Before			0.007354		Before		0.9952							

-0.6000 (Minimum)	0 (Nominal)	0.6000 (Maximum)	0.8500 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
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Before: 4-May-2005 10:16

Dual Induction - E Master Calibration									
Test Loop Calibration: Calibration of Internal Reference to Test Loop Standard									
Phase	Deep 10 kHz Gain Factor	Value	Phase	Deep 20 kHz Gain Factor	Value	Phase	Deep 40 kHz Gain Factor	Value	
Master		1.009	Master		1.021	Master		1.038	
	0.9000 (Minimum)	1.000 (Nominal)	1.100 (Maximum)	0.9000 (Minimum)	1.000 (Nominal)	1.100 (Maximum)	0.9000 (Minimum)	1.000 (Nominal)	1.100 (Maximum)
Phase	Medium 10 kHz Gain Factor	Value	Phase	Medium 20 kHz Gain Factor	Value	Phase	Medium 40 kHz Gain Factor	Value	
Master		1.000	Master		1.000	Master		1.000	
	0.9000 (Minimum)	1.000 (Nominal)	1.100 (Maximum)	0.9000 (Minimum)	1.000 (Nominal)	1.100 (Maximum)	0.9000 (Minimum)	1.000 (Nominal)	1.100 (Maximum)
Phase	Deep 10 kHz Phase Shift	Value	Phase	Deep 20 kHz Phase Shift	Value	Phase	Deep 40 kHz Phase Shift	Value	
Master		0.01267	Master		-0.2437	Master		-1.527	
	-1.500 (Minimum)	0 (Nominal)	1.500 (Maximum)	-2.000 (Minimum)	0 (Nominal)	2.000 (Maximum)	-4.000 (Minimum)	-1.000 (Nominal)	2.000 (Maximum)
Phase	Medium 10 kHz Phase Shift	Value	Phase	Medium 20 kHz Phase Shift	Value	Phase	Medium 40 kHz Phase Shift	Value	
Master		0	Master		0	Master		0	
	-1.500 (Minimum)	0 (Nominal)	1.500 (Maximum)	-3.000 (Minimum)	-1.000 (Nominal)	1.000 (Maximum)	-5.000 (Minimum)	-2.000 (Nominal)	1.000 (Maximum)

Master: Calibration out of date 8-Apr-2004 10:16

Dual Induction - E Master Calibration									
Sonde Error Corrections: Correction for sonde response in zero conductivity environment. (Normalized to 25C).									
Phase	Real Deep 10 kHz S.E. Corr.	Value	Phase	Real Deep 20 kHz S.E. Corr.	Value	Phase	Real Deep 40 kHz S.E. Corr.	Value	
Master		48.25	Master		16.62	Master		4.700	
	-50.00 (Minimum)	0 (Nominal)	125.0 (Maximum)	-30.00 (Minimum)	0 (Nominal)	30.00 (Maximum)	-15.00 (Minimum)	0 (Nominal)	15.00 (Maximum)
Phase	Quad Deep 10 kHz S.E. Corr.	Value	Phase	Quad Deep 20 kHz S.E. Corr.	Value	Phase	Quad Deep 40 kHz S.E. Corr.	Value	
Master		105.0	Master		64.81	Master		46.33	
	-250.0 (Minimum)	0 (Nominal)	350.0 (Maximum)	-125.0 (Minimum)	0 (Nominal)	200.0 (Maximum)	-75.00 (Minimum)	0 (Nominal)	125.0 (Maximum)
Phase	Real Medium 10 kHz S.E. Corr.	Value	Phase	Real Medium 20 kHz S.E. Corr.	Value	Phase	Real Medium 40 kHz S.E. Corr.	Value	
Master		17.07	Master		-2.319	Master		-9.445	
	-50.00 (Minimum)	0 (Nominal)	140.0 (Maximum)	-50.00 (Minimum)	0 (Nominal)	50.00 (Maximum)	-30.00 (Minimum)	0 (Nominal)	30.00 (Maximum)
Phase	Quad Medium 10 kHz S.E. Corr.	Value	Phase	Quad Medium 20 kHz S.E. Corr.	Value	Phase	Quad Medium 40 kHz S.E. Corr.	Value	
Master		-95.46	Master		-31.90	Master		11.62	
	-1300 (Minimum)	0 (Nominal)	1300 (Maximum)	-650.0 (Minimum)	0 (Nominal)	650.0 (Maximum)	-350.0 (Minimum)	0 (Nominal)	350.0 (Maximum)

Master: Calibration out of date 8-Apr-2004 10:25

Hostile Litho-Density Sonde / Equipment Identification			
Primary Equipment:			
Hostile Litho Density Sonde	HLDS - D	10	
Hostile Litho Density High Voltage	HLDV - D	42	
Gamma Source Radioactive	GSR - Z	2326	
Auxiliary Equipment:			
Hostile Litho Density Pad	HLDP - C	10	
Hostile Litho Density High Voltage Housi	HEH - H	44	

Hostile Litho-Density Sonde Wellsite Calibration									
Background Measurement									
Phase	SS Cs Resolution Bkg %	Value	Phase	LS Cs Resolution Bkg %	Value	Phase	LSW1 Background CPS	Value	
Master		8.327	Master		8.844	Master		85.93	
Before		8.278	Before		8.838	Before		84.50	
	7.000 (Minimum)	9.000 (Nominal)	11.00 (Maximum)	7.000 (Minimum)	9.000 (Nominal)	11.00 (Maximum)	55.00 (Minimum)	100.0 (Nominal)	150.0 (Maximum)
Phase	LSW2 Background CPS	Value	Phase	LSW3 Background CPS	Value	Phase	LSW4 Background CPS	Value	
Master		79.37	Master		173.9	Master		212.7	

Before		78.34	Before		200.0	Before		250.0	211.2		
	50.00 (Minimum)	100.0 (Nominal)	140.0 (Maximum)		110.0 (Minimum)	200.0 (Nominal)	290.0 (Maximum)		140.0 (Minimum)	250.0 (Nominal)	360.0 (Maximum)
Phase	LSW5 Background CPS		Value	Phase	SSW1 Background CPS		Value	Phase	SSW2 Background CPS		Value
Master		496.4	Master		84.01	Master		151.0			
Before		493.5	Before		84.96	Before		153.7			
	330.0 (Minimum)	600.0 (Nominal)	830.0 (Maximum)		55.00 (Minimum)	100.0 (Nominal)	150.0 (Maximum)		100.0 (Minimum)	200.0 (Nominal)	260.0 (Maximum)
Phase	SSW3 Background CPS		Value	Phase	SSW4 Background CPS		Value	Phase	SSW5 Background CPS		Value
Master		416.8	Master		219.0	Master		159.0			
Before		414.9	Before		219.7	Before		158.9			
	280.0 (Minimum)	500.0 (Nominal)	700.0 (Maximum)		150.0 (Minimum)	270.0 (Nominal)	380.0 (Maximum)		110.0 (Minimum)	200.0 (Nominal)	270.0 (Maximum)
Master: 13-Apr-2005 14:57						Before: 4-May-2005 10:16					

Hostile Litho-Density Sonde Master Calibration											
Detector Background Measurement											
Phase	LSW1 Background CPS		Value	Phase	LSW2 Background CPS		Value	Phase	LSW3 Background CPS		Value
Master		85.93	Master		79.37	Master		173.9			
	55.00 (Minimum)	100.0 (Nominal)	150.0 (Maximum)		50.00 (Minimum)	100.0 (Nominal)	140.0 (Maximum)		110.0 (Minimum)	200.0 (Nominal)	290.0 (Maximum)
Phase	LSW4 Background CPS		Value	Phase	LSW5 Background CPS		Value	Phase	LS Cs Resolution Bkg %		Value
Master		212.7	Master		496.4	Master		8.844			
	140.0 (Minimum)	250.0 (Nominal)	360.0 (Maximum)		330.0 (Minimum)	600.0 (Nominal)	830.0 (Maximum)		7.000 (Minimum)	9.000 (Nominal)	11.00 (Maximum)
Phase	SSW1 Background CPS		Value	Phase	SSW2 Background CPS		Value	Phase	SSW3 Background CPS		Value
Master		84.01	Master		151.0	Master		416.8			
	55.00 (Minimum)	100.0 (Nominal)	150.0 (Maximum)		100.0 (Minimum)	200.0 (Nominal)	260.0 (Maximum)		280.0 (Minimum)	500.0 (Nominal)	700.0 (Maximum)
Phase	SSW4 Background CPS		Value	Phase	SSW5 Background CPS		Value	Phase	SS Cs Resolution Bkg %		Value
Master		219.0	Master		159.0	Master		8.327			
	150.0 (Minimum)	270.0 (Nominal)	380.0 (Maximum)		110.0 (Minimum)	200.0 (Nominal)	270.0 (Maximum)		7.000 (Minimum)	9.000 (Nominal)	11.00 (Maximum)
Master: 13-Apr-2005 14:57											

Hostile Litho-Density Sonde Master Calibration											
Detector Aluminum Measurement (bkgd-subtracted)											
Phase	LSW1 Aluminum CPS		Value	Phase	LSW2 Aluminum CPS		Value	Phase	LSW3 Aluminum CPS		Value
Master		631.9	Master		923.0	Master		1128			
	420.0 (Minimum)	600.0 (Nominal)	700.0 (Maximum)		650.0 (Minimum)	900.0 (Nominal)	1050 (Maximum)		800.0 (Minimum)	1100 (Nominal)	1300 (Maximum)
Phase	LSW4 Aluminum CPS		Value	Phase	LSW5 Aluminum CPS		Value	Phase	SSW1 Aluminum CPS		Value
Master		571.2	Master		531.9	Master		3024			
	410.0 (Minimum)	580.0 (Nominal)	670.0 (Maximum)		410.0 (Minimum)	570.0 (Nominal)	660.0 (Maximum)		2000 (Minimum)	2800 (Nominal)	3200 (Maximum)
Phase	SSW2 Aluminum CPS		Value	Phase	SSW3 Aluminum CPS		Value	Phase	SSW4 Aluminum CPS		Value
Master		8390	Master		11660	Master		4884			
	5800 (Minimum)	8000 (Nominal)	9300 (Maximum)		8300 (Minimum)	11600 (Nominal)	13500 (Maximum)		3500 (Minimum)	5000 (Nominal)	5800 (Maximum)
Phase	SSW5 Aluminum CPS		Value								
Master		644.8									
	470.0 (Minimum)	660.0 (Nominal)	770.0 (Maximum)								
Master: 13-Apr-2005 15:41											

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		430.0	Master		733.6	Master		986.9			
	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	SSW1 Iron CPS		Value
Master		515.9	Master		489.1	Master		2212			

370.0 (Minimum)	520.0 (Nominal)	600.0 (Maximum)	Phase	SSW2 Iron CPS	Value	340.0 (Minimum)	470.0 (Nominal)	550.0 (Maximum)	Phase	SSW3 Iron CPS	Value	1500 (Minimum)	2100 (Nominal)	2400 (Maximum)	Phase	SSW4 Iron CPS	Value
			Master		6952				Master		10570				Master		4424
4900 (Minimum)	6800 (Nominal)	7900 (Maximum)				7800 (Minimum)	10800 (Nominal)	12600 (Maximum)				3300 (Minimum)	4600 (Nominal)	5400 (Maximum)			
			Phase	SSW5 Iron CPS	Value												
			Master		563.2												
420.0 (Minimum)	580.0 (Nominal)	680.0 (Maximum)															

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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	Phase	AL CALIBRATION RATIO 4	Value	Phase	Pad-Wear SS Ratio	Value	Phase	Pad-Wear LS Ratio	Value
Master		1.023	Master		2.109	Master		0.5728				Master		0.9845	Master		0.9807
0.9000 (Minimum)	1.000 (Nominal)	1.100 (Maximum)	1.900 (Minimum)	2.100 (Nominal)	2.300 (Maximum)	0.4500 (Minimum)	0.5500 (Nominal)	0.6500 (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		1.006	Master		0.9882									
0.9900 (Minimum)	0.9940 (Nominal)	1.015 (Maximum)	0.9850 (Minimum)	0.9940 (Nominal)	1.010 (Maximum)												

Master: 13-Apr-2005 15:22

Nuclear Porosity Lithology Cartridge - B / Equipment Identification

Primary Equipment:			
NPLC Cartridge	NPLC - B	79	
Auxiliary Equipment:			
NPLC Housing	NPH - B	82	

Accelerator-Porosity Tool / Equipment Identification

Primary Equipment:			
Accelerator-Porosity Sonde	APS - C	202	
APS Minitron	MNTR - F	5124	
Auxiliary Equipment:			
Accelerator-Porosity Housing	APH - AC	104	
APS Calibration Water Tank	SFT - 178	6250	
APS Aluminum Calibrator Sleeve	SFT - 281	6250	

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	Phase	Array-2 Det Bkg Cntrate CPS	Value	Phase	Array Therm Det Bkg Cntrate CPS	Value					
Master		25.38	Master		25.40	Master		28.70				Master		25.69	Master		25.67		
Before		25.71	Before		26.37	Before		26.09				Before		27.22	Before		24.20		
1.000 (Minimum)	30.00 (Nominal)	50.00 (Maximum)	1.000 (Minimum)	30.00 (Nominal)	50.00 (Maximum)	1.000 (Minimum)	30.00 (Nominal)	50.00 (Maximum)	1.000 (Minimum)	30.00 (Nominal)	50.00 (Maximum)	1.000 (Minimum)	30.00 (Nominal)	50.00 (Maximum)					

Master: 22-Mar-2005 20:56

Before: 4-May-2005 10:17

Accelerator-Porosity Tool Wellsite Calibration																	
Calibration Ratios																	
Phase	Near/Far Calibration Ratio	Value	Phase	Near/Array Calibration Ratio	Value	Phase	Near/Array Cal Ratio Up/Down	Value									

Phase	Near/Far Calibration Ratio	Value	Phase	Near/Array Calibration Ratio	Value	Phase	Near/Array Cal Ratio Up/Down	Value
Master		0.9625	Master		0.9914	Master		0.9985
	0.8000 (Minimum) 0.9250 (Nominal) 1.050 (Maximum)			0.9000 (Minimum) 1.030 (Nominal) 1.170 (Maximum)			0.9700 (Minimum) 1.000 (Nominal) 1.030 (Maximum)	

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Accelerator-Porosity Tool Wellsite Calibration									
Tank Check									
Phase	Array-1 Standoff Porosity PU	Value	Phase	Array-2 Standoff Porosity PU	Value	Phase	Average Slowing Down Time US	Value	
Master		11.97	Master		11.85	Master		5.825	
	9.900 (Minimum) 11.75 (Nominal) 13.60 (Maximum)			9.900 (Minimum) 11.75 (Nominal) 13.60 (Maximum)			5.500 (Minimum) 6.000 (Nominal) 6.250 (Maximum)		
Phase	Array-1 SDT Ratio Up/Down	Value	Phase	Array-2 SDT Ratio Up/Down	Value	Phase	Sigma Formation CU	Value	
Master		0.9952	Master		1.006	Master		27.53	
	0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)			0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)			20.00 (Minimum) 27.50 (Nominal) 35.00 (Maximum)		

Master: 22-Mar-2005 20:56

Accelerator-Porosity Tool Master Calibration									
Detector Calibration									
Phase	Near/Far Calibration Ratio	Value	Phase	Near/Array Calibration Ratio	Value	Phase	Near/Array Cal Ratio Up/Down	Value	
Master		0.9625	Master		0.9914	Master		0.9985	
	0.8000 (Minimum) 0.9250 (Nominal) 1.050 (Maximum)			0.9000 (Minimum) 1.030 (Nominal) 1.170 (Maximum)			0.9700 (Minimum) 1.000 (Nominal) 1.030 (Maximum)		

Master: 22-Mar-2005 20:56

Accelerator-Porosity Tool Master Calibration									
Tank Check									
Phase	Array-1 Standoff Porosity PU	Value	Phase	Array-2 Standoff Porosity PU	Value	Phase	Average Slowing Down Time US	Value	
Master		11.97	Master		11.85	Master		5.825	
	9.900 (Minimum) 11.75 (Nominal) 13.60 (Maximum)			9.900 (Minimum) 11.75 (Nominal) 13.60 (Maximum)			5.500 (Minimum) 6.000 (Nominal) 6.250 (Maximum)		
Phase	Array-1 SDT Ratio Up/Down	Value	Phase	Array-2 SDT Ratio Up/Down	Value	Phase	Sigma Formation CU	Value	
Master		0.9952	Master		1.006	Master		27.53	
	0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)			0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)			20.00 (Minimum) 27.50 (Nominal) 35.00 (Maximum)		

Master: 22-Mar-2005 20:56

Hostile Natural Gamma Ray Sonde / Equipment Identification			
Primary Equipment:	HNGS Sonde	HNGS - BA	77
Auxiliary Equipment:	HNGS Sonde Housing	HNSH - BA	
	Gamma Source Radioactive	GSR - U	135

Hostile Natural Gamma Ray Sonde Wellsite Calibration									
Detector 1 Check									
Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value	
Master		40.62	Master		16.96	Master		1255	
Before		40.84	Before		15.95	Before		1255	
	37.50 (Minimum) 40.00 (Nominal) 42.50 (Maximum)			12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)			900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)		
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value	
Master		144.8	Master		9.982	Master		18.00	
Before		144.7	Before		9.411	Before		18.01	
	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		42.26
Before		42.82
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)	

Hostile Natural Gamma Ray Sonde Wellsite Calibration											
Detector 2 Check											
Phase	Na 511 Peak Loc		Value	Phase	Na 511 Peak Res %		Value	Phase	High Voltage V		Value
Master			40.54	Master			16.66	Master			1274
Before			40.56	Before			16.93	Before			1275
	37.50 (Minimum)	40.00 (Nominal)	42.50 (Maximum)		12.00 (Minimum)	15.50 (Nominal)	19.00 (Maximum)		900.0 (Minimum)	1150 (Nominal)	1600 (Maximum)
Phase	Na 1785 Peak Loc		Value	Phase	Na 1785 Peak Res %		Value	Phase	Temperature DEGC		Value
Master			144.2	Master			9.777	Master			17.18
Before			144.8	Before			9.984	Before			17.20
	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			42.45								
Before			43.34								
	10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)								

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		0.9936
Before		0.9895
	0.9500 (Minimum)	1.000 (Nominal)
		1.050 (Maximum)

Hostile Natural Gamma Ray Sonde Master Calibration											
Detector 1 Calibration											
Phase	Na 511 Peak Set Point		Value	Phase	Th Peak Loc		Value	Phase	Th Peak Res %		Value
Master			41.00	Master			208.9	Master			8.099
	38.00 (Minimum)	40.00 (Nominal)	42.00 (Maximum)		201.0 (Minimum)	209.6 (Nominal)	218.3 (Maximum)		5.000 (Minimum)	7.000 (Nominal)	9.000 (Maximum)
Phase	Background Count Rate CPS		Value	Phase	Gain Ratio		Value				
Master			21.35	Master			0.9786				
	20.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)		0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)				

Hostile Natural Gamma Ray Sonde Master Calibration											
Detector 2 Calibration											
Phase	Na 511 Peak Set Point		Value	Phase	Th Peak Loc		Value	Phase	Th Peak Res %		Value
Master			41.00	Master			207.3	Master			8.237
	38.00 (Minimum)	40.00 (Nominal)	42.00 (Maximum)		201.0 (Minimum)	209.6 (Nominal)	218.3 (Maximum)		5.000 (Minimum)	7.000 (Nominal)	9.000 (Maximum)
Phase	Background Count Rate CPS		Value	Phase	Gain Ratio		Value				
Master			22.15	Master			0.9731				
	20.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)		0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)				

Company: Lamont Doherty

Schlumberger

Well: Expedition 307 Site U1318B

Field: Porcupine Basin Carbonate Mounds

Rig: Joides Resolution

Country: Ireland

Hostile Natural Gamma Ray