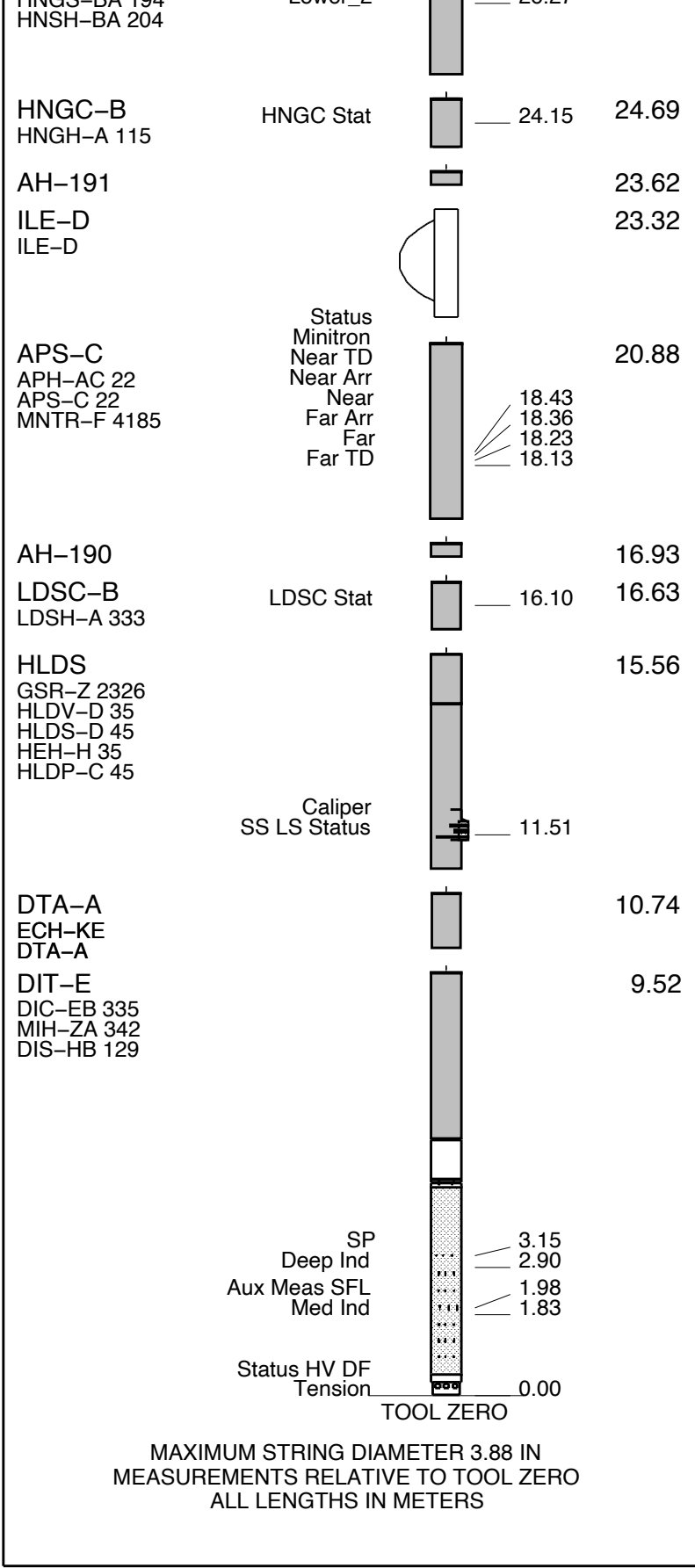


Run 4

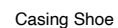
THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA;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

Tool ran as per tool sketch below

Series	Upper_1	Lower_2	Value 1	Value 2
HNGS-BA	26.49	27.19		
HNGS-BA-104	26.27			



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



Schlumberger

MAIN PASS

MAXIS Field Log

Company: Lamont DohertyWell: GDGH05-A HOLE 3D

Input DLIS Files						
DEFAULT	PI_LDL_APS_NGS_017LUP	FN:20	PRODUCER	03-Jul-2006 22:18	1387.6 M	1042.6 M
Output DLIS Files						
DEFAULT	PI_LDL_APS_NGS_031PUP	FN:40	PRODUCER	06-Jul-2006 14:14	1387.6 M	1047.3 M
REDUCED	PI_LDL_APS_NGS_031PUP	FN:41	PRODUCER	06-Jul-2006 14:14	1387.6 M	1047.3 M

OP System Version: 12C0-301						
MCM						
DIT-E	12C0-301	DTA-A	12C0-301			
HLDS	SPC-2602-NUCL	LDSC-B	SPC-2602-NUCL			
APS-C	SPC-2602-NUCL	HNGC-B	SPC-2602-NUCL			
HNGS-BA	SPC-2602-NUCL	DTC-H	12C0-301			

PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray
(HSGR)

0100

HNGS Det.2 Resolution Degradation
Factor (RDF2)

010

HNGS Det.1 Resolution Degradation
Factor (RDF1)

010

HNGS Det.2 Gain Correction Factor
(GCF2)

0.91.1

HNGS Det.1 Gain Correction Factor
(GCF1)

0.91.1

Area1
From HCGR to HSGR

HNGS Computed Gamma Ray (HCGR)

0100

Caliper (LCAL)

616

HLDS Caliper (LCAL)

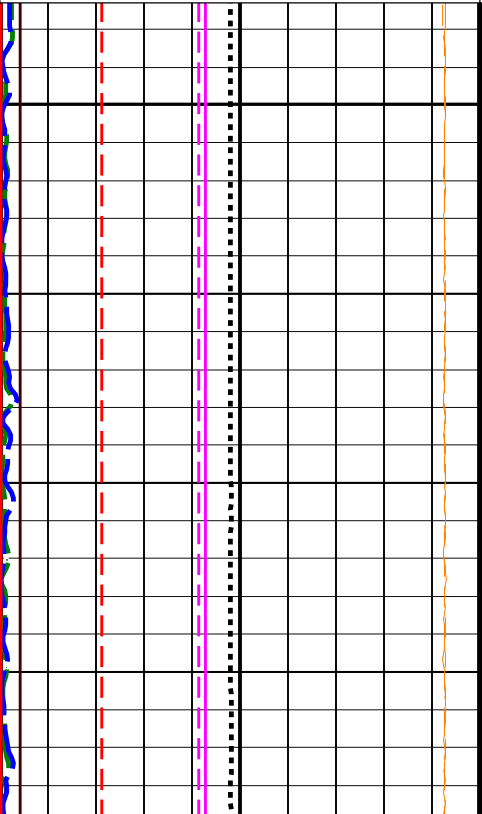
020

HNGS Det.2 Chi Squared (CHI2)

100

HNGS Det.1 Chi Squared (CHI1)

100



HNGS Borehole Potassium (HBHK)

-0.050.05

HNGS Uranium (HURA)

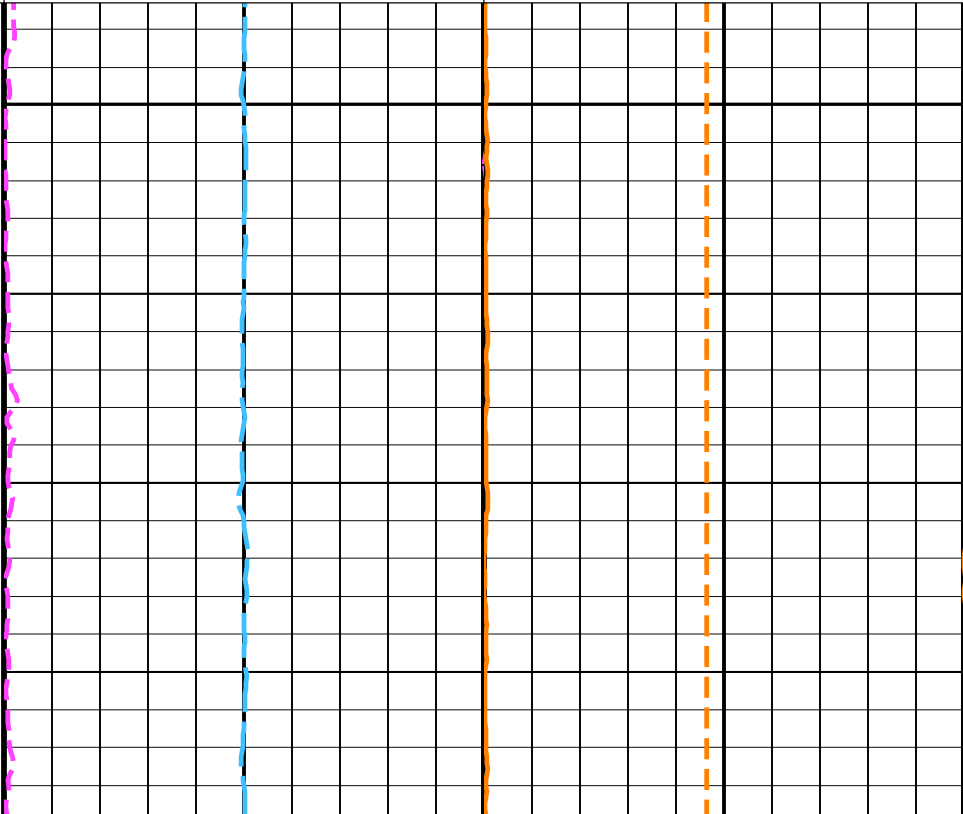
-1030

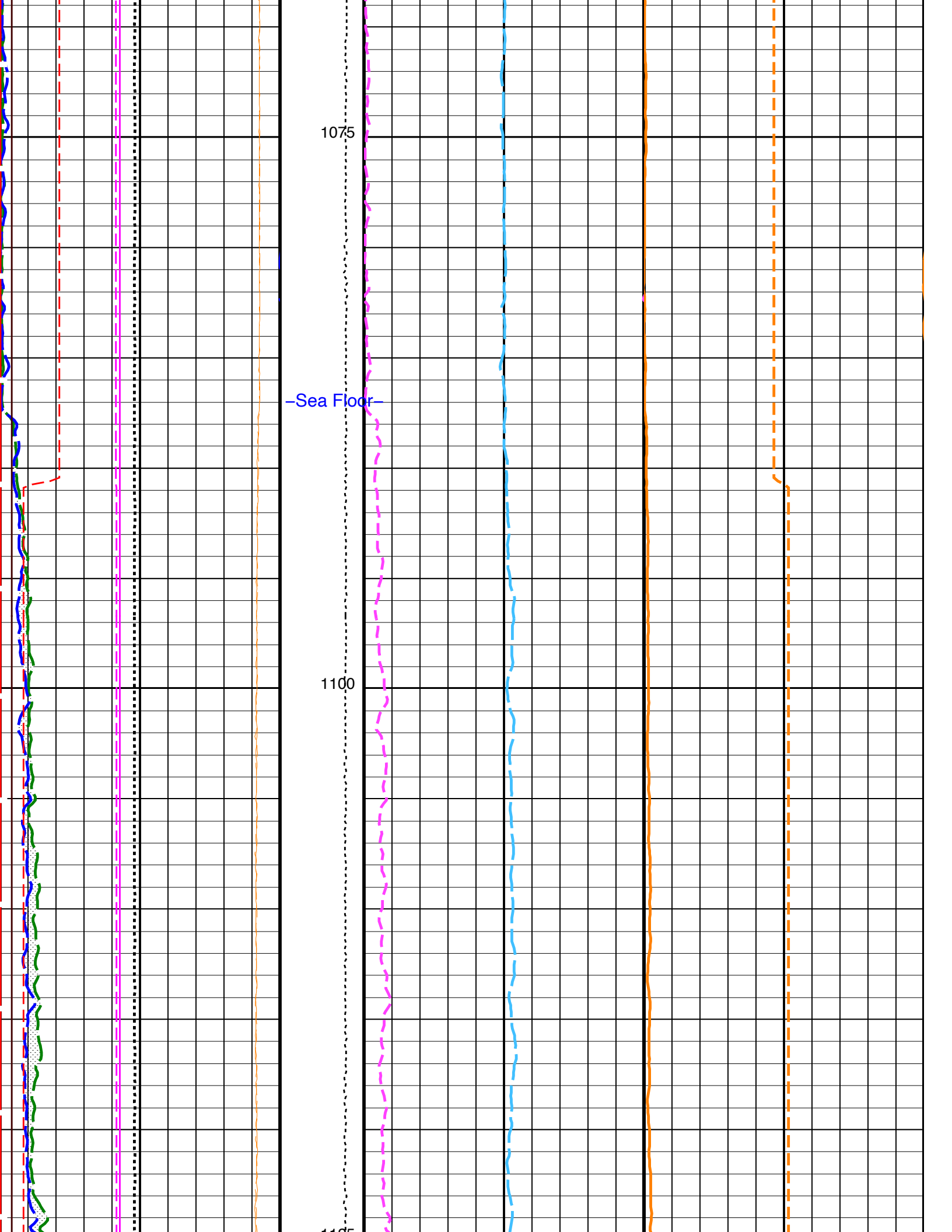
HNGS Thorium (HTHO)

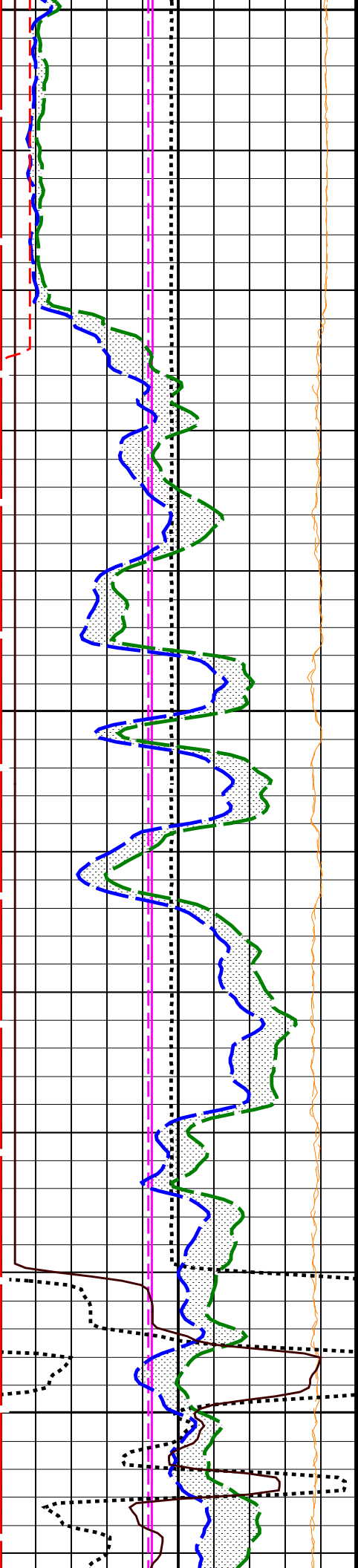
030

HNGS Potassium (HFK)

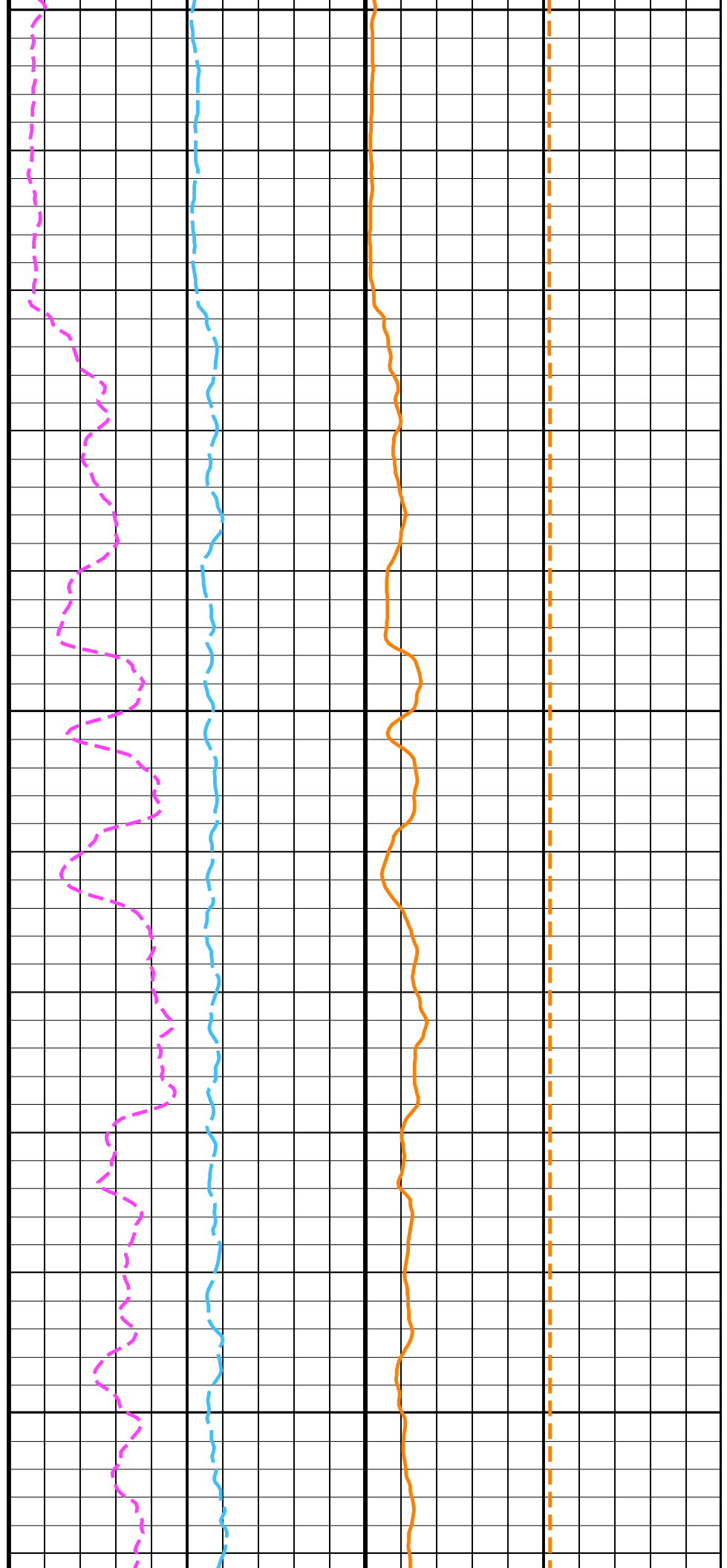
00.1

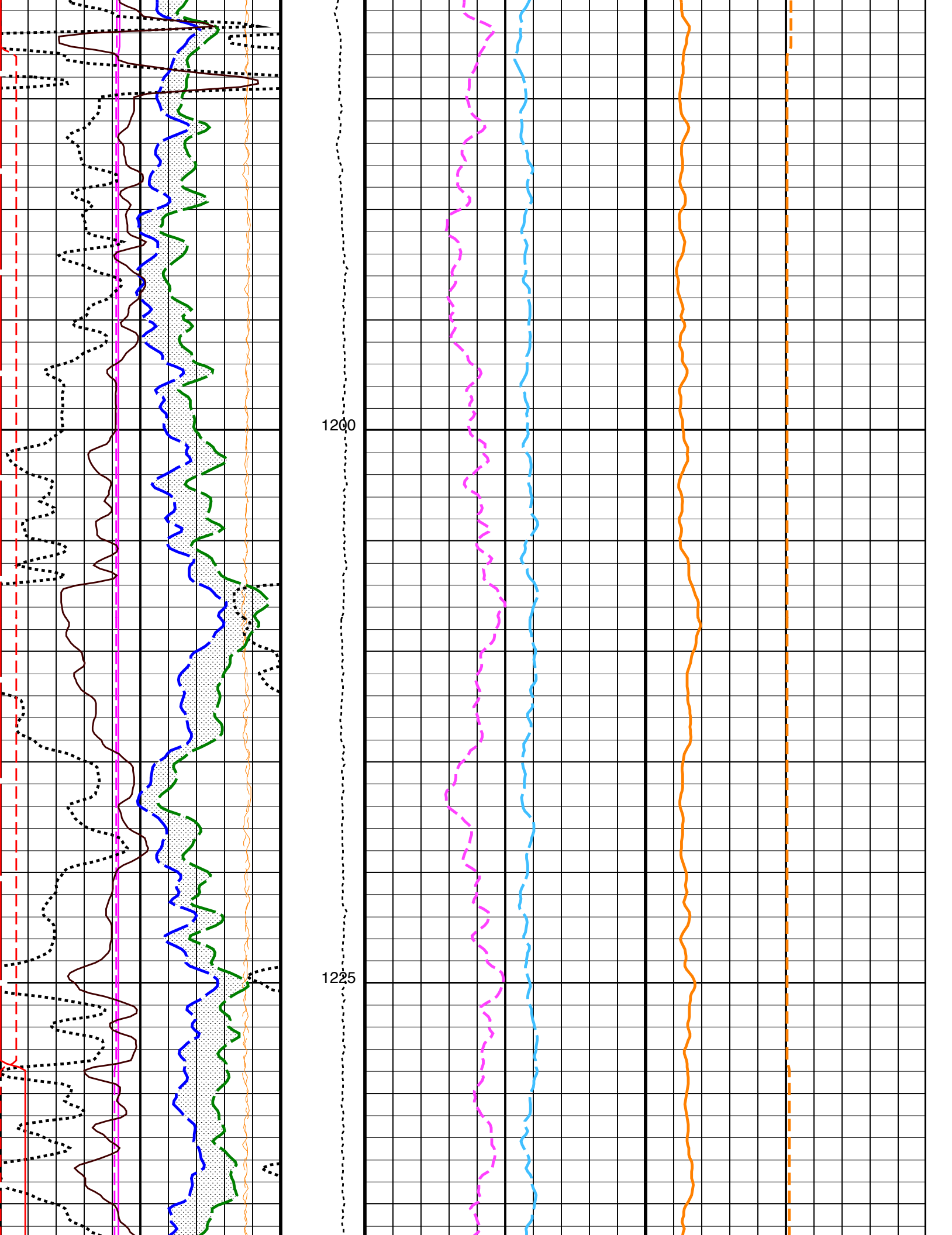


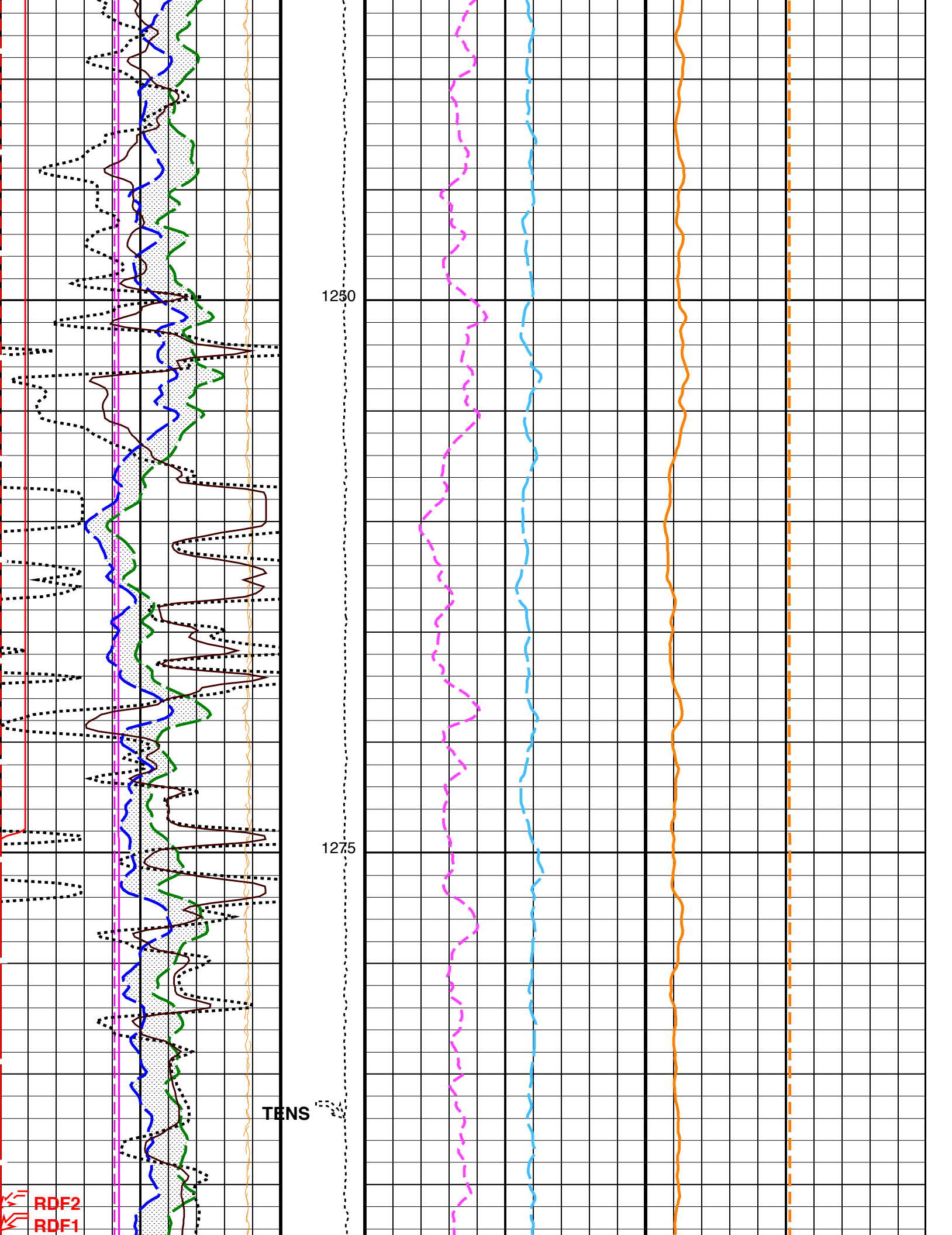


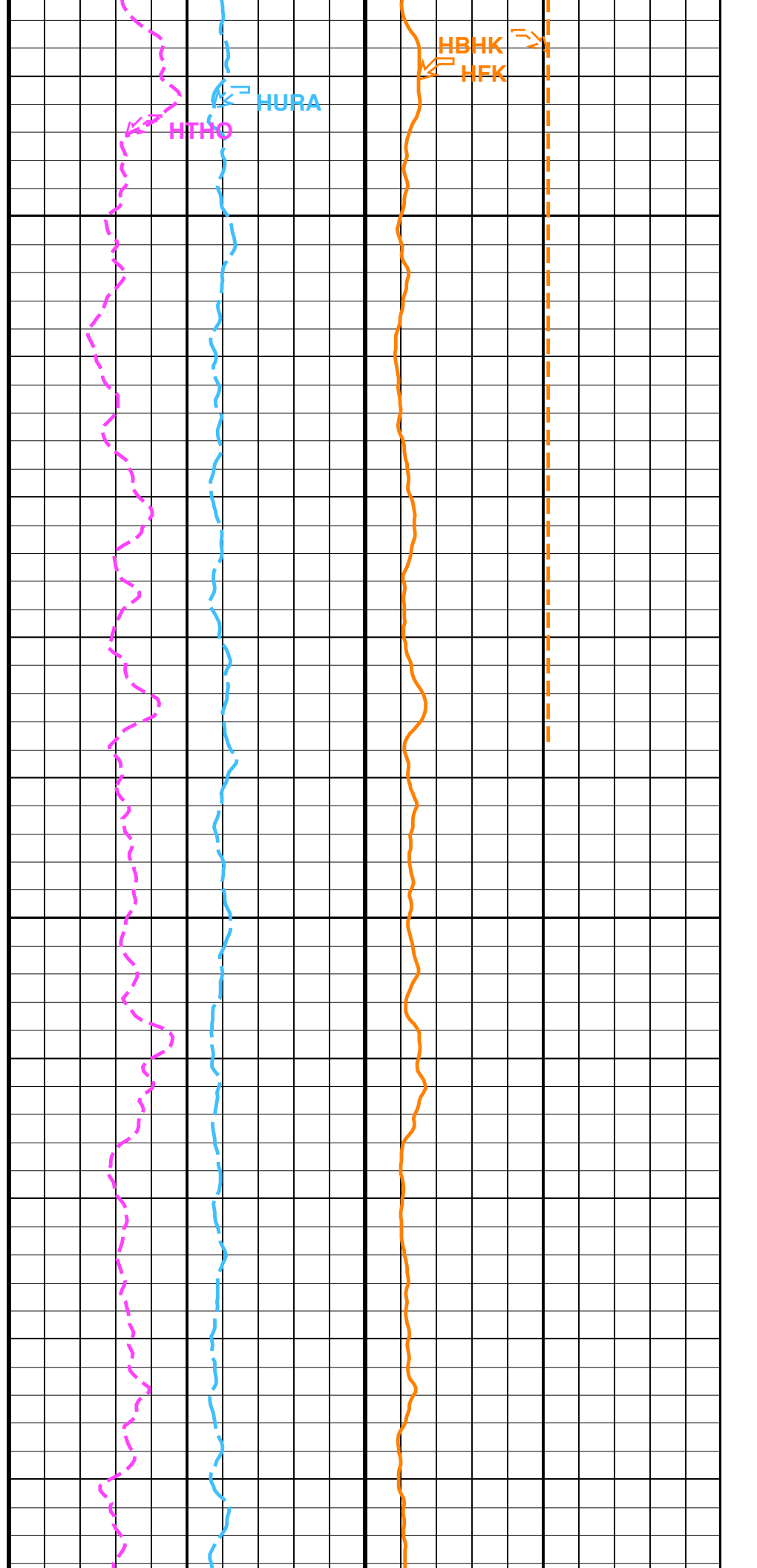
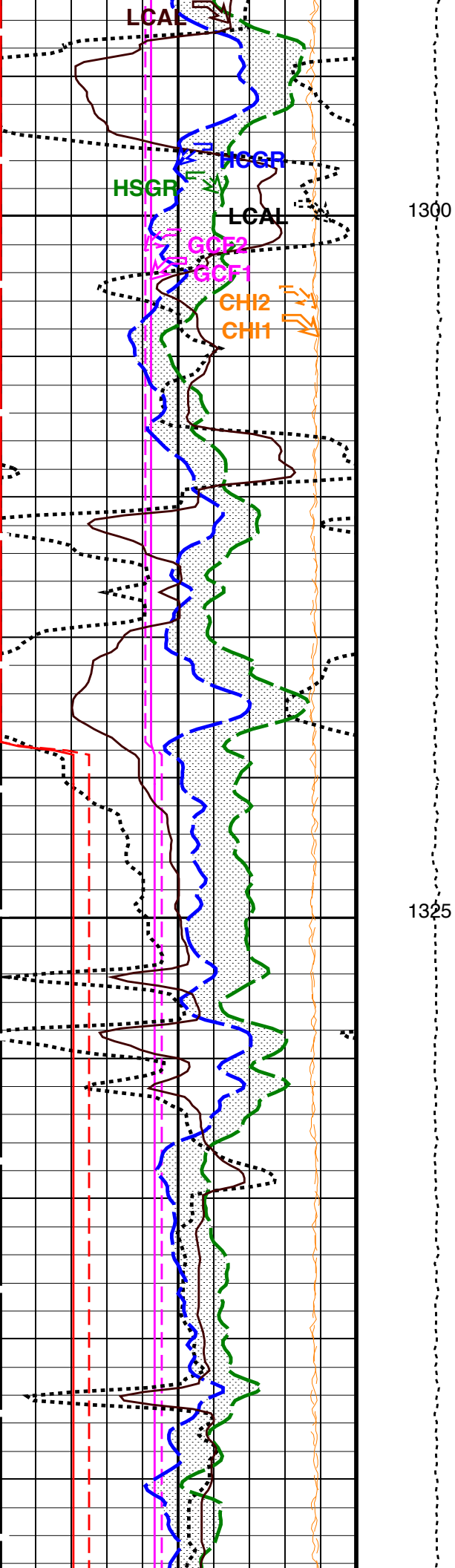


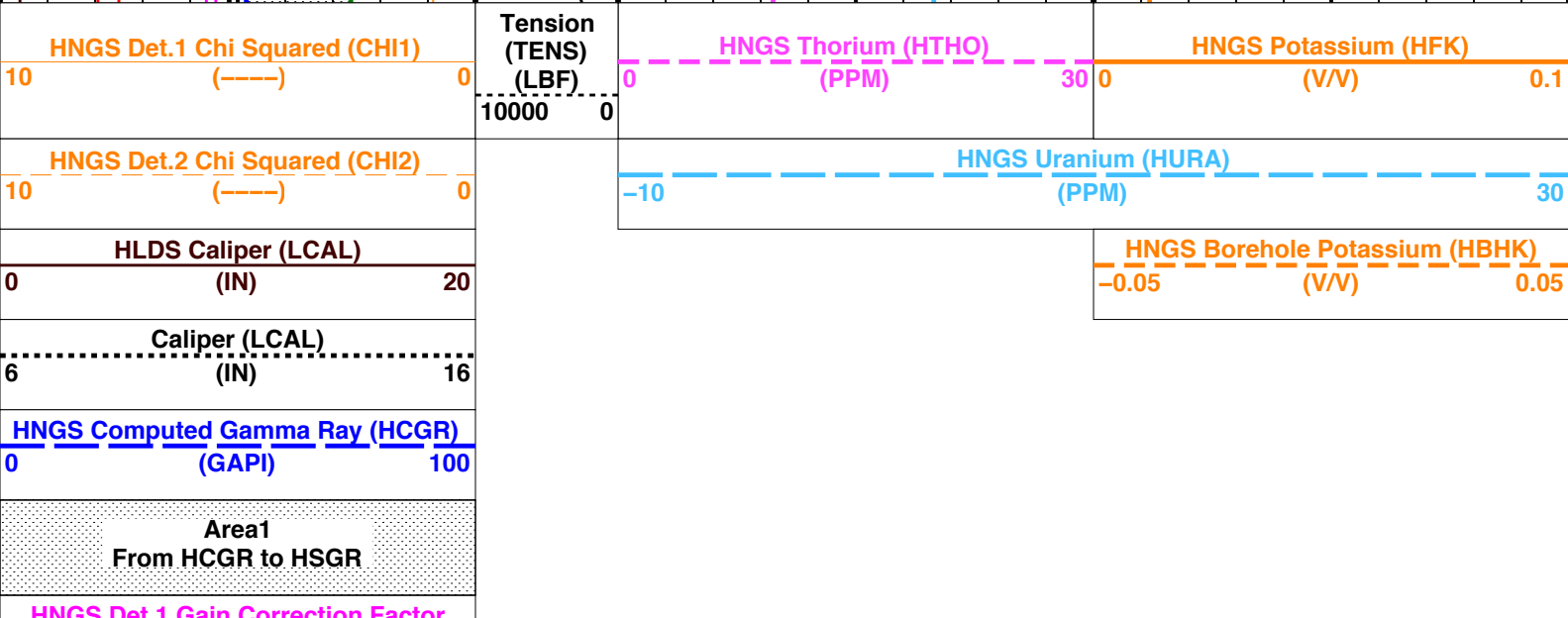
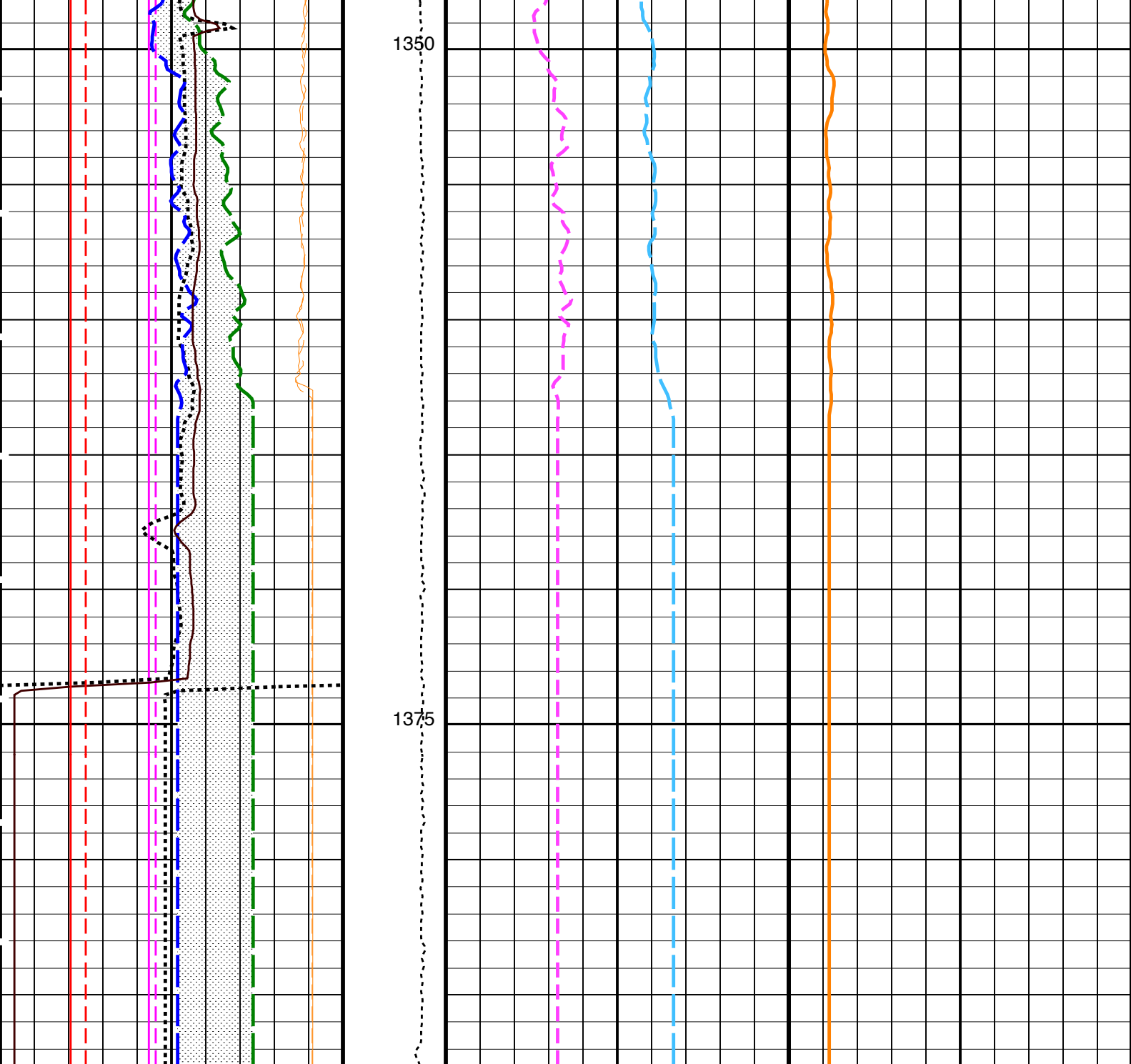
1125
-DP
1150
1175











HNGS Det.1 Gain Correction Factor (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)		
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	0.000314908	
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	0.939752	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.946805	
System and Miscellaneous			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.07	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: HNGSYields Vertical Scale: 1:200

Graphics File Created: 06-Jul-2006 14:14

OP System Version: 12C0-301

MCM

DIT-E	12C0-301	DTA-A	12C0-301
HLDS	SPC-2602-NUCL	LDSC-B	SPC-2602-NUCL
APS-C	SPC-2602-NUCL	HNGC-B	SPC-2602-NUCL
HNGS-BA	SPC-2602-NUCL	DTC-H	12C0-301

Input DLIS Files

DEFAULT PI_LDL_APS_NGS_017LUP FN:20 PRODUCER 03-Jul-2006 22:18 1387.6 M 1042.6 M

Output DLIS Files

DEFAULT	PI_LDL_APS_NGS_031PUP	FN:40	PRODUCER	06-Jul-2006 14:14
REDUCED	PI_LDL_APS_NGS_031PUP	FN:41	PRODUCER	06-Jul-2006 14:14



CALIBRATIONS

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Hostile Litho-Density Sonde Wellsite Calibration – Background Measurement							
Master: 30-Jun-2006 14:18 Before: 2-Jul-2006 9:12							
SS Cs Resolution Bkg	9.000	7.975	8.033	N/A	N/A	1.800	%
LS Cs Resolution Bkg	9.000	8.171	8.189	N/A	N/A	1.800	%
LSW1 Background	100.0	82.48	81.76	N/A	N/A	3.000	CPS
LSW2 Background	100.0	75.72	75.72	N/A	N/A	3.000	CPS
LSW3 Background	200.0	167.6	167.0	N/A	N/A	6.000	CPS
LSW4 Background	250.0	205.6	204.7	N/A	N/A	7.500	CPS
LSW5 Background	600.0	467.9	463.8	N/A	N/A	18.00	CPS
SSW1 Background	100.0	89.70	90.91	N/A	N/A	3.000	CPS
SSW2 Background	200.0	163.7	163.3	N/A	N/A	6.000	CPS
SSW3 Background	500.0	442.9	443.4	N/A	N/A	15.00	CPS
SSW4 Background	270.0	225.3	224.8	N/A	N/A	8.100	CPS
SSW5 Background	200.0	162.4	163.0	N/A	N/A	6.000	CPS
Hostile Litho-Density Sonde Wellsite Calibration – Aluminum Measurement							
Master: 30-Jun-2006 15:13							
LSW1 Aluminum	600.0	580.1	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	840.1	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	1011	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	514.3	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	464.4	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	2741	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	7400	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	10320	N/A	N/A	N/A	N/A	CPS
SSW4 Aluminum	5000	4161	N/A	N/A	N/A	N/A	CPS
SSW5 Aluminum	660.0	504.1	N/A	N/A	N/A	N/A	CPS
Hostile Litho-Density Sonde Wellsite Calibration – Lithology Measurement							
Master: 30-Jun-2006 14:48							
LSW1 Iron	400.0	408.3	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	688.6	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	906.9	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	462.0	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	418.7	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1992	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	6173	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	9379	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	3779	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	445.3	N/A	N/A	N/A	N/A	CPS
Hostile Litho-Density Sonde Wellsite Calibration – Caliper Calibration							
Before: 2-Jul-2006 9:15							
HLDS Caliper Small Ring	8.000	N/A	9.596	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	12.00	N/A	13.77	N/A	N/A	N/A	IN
Accelerator-Porosity Tool Wellsite Calibration – Detector Background							
Master: 2-May-2006 10:19 Before: 2-Jul-2006 9:13							
Near Det Bkg Cntrate	30.00	31.75	32.27	N/A	N/A	N/A	CPS
Far Det Bkg Cntrate	30.00	32.74	32.67	N/A	N/A	N/A	CPS
Array-1 Det Bkg Cntrate	30.00	30.56	30.50	N/A	N/A	N/A	CPS
Array-2 Det Bkg Cntrate	30.00	30.26	28.56	N/A	N/A	N/A	CPS

Array Therm Det Bkg Cntrate	30.00	33.53	30.97	N/A	N/A	N/A	CPS
Accelerator-Porosity Tool Wellsite Calibration – Calibration Ratios							
Master: 2-May-2006 10:19							
Near/Far Calibration Ratio	0.9250	0.8849	N/A	N/A	N/A	N/A	
Near/Array Calibration Ratio	1.030	1.056	N/A	N/A	N/A	N/A	
Near/Array Cal Ratio Up/Down	1.000	1.005	N/A	N/A	N/A	N/A	
Accelerator-Porosity Tool Wellsite Calibration – Tank Check							
Master: 2-May-2006 10:19							
Array-1 Standoff Porosity	11.75	11.48	N/A	N/A	N/A	N/A	PU
Array-2 Standoff Porosity	11.75	11.75	N/A	N/A	N/A	N/A	PU
Average Slowing Down Time	6.000	5.866	N/A	N/A	N/A	N/A	US
Array-1 SDT Ratio Up/Down	1.000	0.9981	N/A	N/A	N/A	N/A	
Array-2 SDT Ratio Up/Down	1.000	0.9906	N/A	N/A	N/A	N/A	
Sigma Formation	27.50	27.45	N/A	N/A	N/A	N/A	CU
Accelerator-Porosity Tool Wellsite Calibration – CCR7 signal boxes							
Master: 2-May-2006 10:19							
Near Detector Plateau Setting	1650	1732	N/A	N/A	N/A	N/A	V
Far Detector Plateau Setting	2000	2099	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: 2-Jul-2006 9:00 Before: 2-Jul-2006 9:13							
Na 511 Peak Loc	40.00	39.62	39.60	N/A	N/A	1.000	
Na 511 Peak Res	15.50	16.93	16.47	N/A	N/A	2.000	%
High Voltage	1150	1121	1121	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	142.7	142.2	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	8.182	8.976	N/A	N/A	2.000	%
Temperature	15.50	35.18	35.24	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	38.31	38.74	N/A	N/A	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check							
Master: 2-Jul-2006 9:00 Before: 2-Jul-2006 9:13							
Na 511 Peak Loc	40.00	39.76	39.66	N/A	N/A	1.000	
Na 511 Peak Res	15.50	15.53	16.80	N/A	N/A	2.000	%
High Voltage	1150	1204	1204	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	141.4	141.8	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	9.455	8.863	N/A	N/A	2.000	%
Temperature	15.50	33.94	33.92	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	38.11	38.47	N/A	N/A	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Ratio Of Detector 1 To Detector 2							
Master: 2-Jul-2006 9:00 Before: 2-Jul-2006 9:13							
Coincidence Count Rate Ratio	1.000	1.004	1.009	N/A	N/A	0.05000	
Hostile Natural Gamma Ray Sonde Master Calibration – Detector 1 Calibration							
Master: 2-Jul-2006 8:54							
Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	209.0	--	--	--	--	
Th Peak Res	7.000	7.177	--	--	--	--	%
Background Count Rate	142.5	23.81	--	--	--	--	CPS
Gain Ratio	1.000	1.003	--	--	--	--	
Hostile Natural Gamma Ray Sonde Master Calibration – Detector 2 Calibration							
Master: 2-Jul-2006 8:54							
Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	209.8	--	--	--	--	
Th Peak Res	7.000	7.534	--	--	--	--	%
Background Count Rate	142.5	32.63	--	--	--	--	CPS
Gain Ratio	1.000	1.004	--	--	--	--	
Accelerator-Porosity Tool – Detector Plateau Settings :							
Near Detector Plateau Setting	1732 V						
Far Detector Plateau Setting	2099 V						
Array Detector Plateau Setting	1966 V						

Dual Induction – E / Equipment Identification

Primary Equipment:

Dual Induction Sonde

Dual Induction Cartridge

DIS – HB

DIC – EB

129





335

Auxiliary Equipment:

Before: 2-Jul-2006 9:05Before: 2-Jul-2006 9:06

Before: 2-Jul-2006 9:07




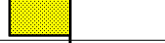






Dual Induction – E Wellsite Calibration	
SFL Electronics	

SFL Voltage Offset MV			Value	SFL Voltage Gain			Value
Before			0.2061	Before			1.001
-15.00 (Minimum)			0 (Nominal)	0.8500 (Minimum)			1.200 (Maximum)
SFL Current Offset MA			Value	SFL Current Gain			Value
Before			0.04093	Before			1.013
-0.6000 (Minimum)			0 (Nominal)	0.8500 (Minimum)			1.200 (Maximum)
Before: 2-Jul-2006 9:08							








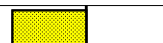


Hostile Litho-Density Sonde / Equipment Identification			
Primary Equipment:			
Hostile Litho Density Sonde	HLDS - D	45	
Hostile Litho Density High Voltage	HLDV - D	35	
Gamma Source Radioactive	GSR - Z	2326	
Auxiliary Equipment:			
Hostile Litho Density Pad	HLDP - C	45	
Hostile Litho Density High Voltage Housi	HEH - H	35	

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	<div><div></div></div>		7.975	Master	<div><div></div></div>		8.171	Master	<div><div></div></div>		82.48	
Before	<div><div></div></div>		8.033	Before	<div><div></div></div>		8.189	Before	<div><div></div></div>		81.76	
7.000 (Minimum)			9.000 (Nominal)	7.000 (Minimum)			9.000 (Nominal)	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	<div><div></div></div>		75.72	Master	<div><div></div></div>		167.6	Master	<div><div></div></div>		205.6	
Before	<div><div></div></div>		75.72	Before	<div><div></div></div>		167.0	Before	<div><div></div></div>		204.7	
50.00 (Minimum)			100.0 (Nominal)	110.0 (Minimum)			200.0 (Nominal)	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	<div><div></div></div>		467.9	Master	<div><div></div></div>		89.70	Master	<div><div></div></div>		163.7	
Before	<div><div></div></div>		463.8	Before	<div><div></div></div>		90.91	Before	<div><div></div></div>		163.3	
330.0 (Minimum)			600.0 (Nominal)	55.00 (Minimum)			100.0 (Nominal)	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	<div><div></div></div>		442.9	Master	<div><div></div></div>		225.3	Master	<div><div></div></div>		162.4	
Before	<div><div></div></div>		443.4	Before	<div><div></div></div>		224.8	Before	<div><div></div></div>		163.0	
280.0 (Minimum)			500.0 (Nominal)	150.0 (Minimum)			270.0 (Nominal)	110.0 (Minimum)			200.0 (Nominal)	270.0 (Maximum)
Master: 30-Jun-2006 14:18 Before: 2-Jul-2006 9:12												

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	<div><div></div></div>			82.48	Master	<div><div></div></div>			75.72	Master	<div><div></div></div>			167.6
	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	<div><div></div></div>			205.6	Master	<div><div></div></div>			467.9	Master	<div><div></div></div>			8.171
	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	<div><div></div></div>			89.70	Master	<div><div></div></div>			163.7	Master	<div><div></div></div>			442.9
	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	<div><div></div></div>			225.3	Master	<div><div></div></div>			162.4	Master	<div><div></div></div>			7.975
	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)	

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				580.1	Master				840.1	Master				1011
	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				514.3	Master				464.4	Master				2741
	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				7400	Master				10320	Master				4161
	5800 (Minimum)	8000 (Nominal)	9300 (Maximum)		8300 (Minimum)	11600 (Nominal)	13500 (Maximum)		3500 (Minimum)	5000 (Nominal)	5800 (Maximum)			
Phase	SSW5 Aluminum CPS			Value										
Master				504.1										
	470.0 (Minimum)	660.0 (Nominal)	770.0 (Maximum)											
Master: 30-Jun-2006 15:13														

Master: 30-Jun-2006 15:13

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				408.3	Master				688.6	Master				906.9
	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				462.0	Master				418.7	Master				1992
	370.0 (Minimum)	520.0 (Nominal)	600.0 (Maximum)		340.0 (Minimum)	470.0 (Nominal)	550.0 (Maximum)		1500 (Minimum)	2100 (Nominal)	2400 (Maximum)			
Phase	SSW2 Iron CPS			Value	Phase	SSW3 Iron CPS			Value	Phase	SSW4 Iron CPS			Value
Master				6173	Master				9379	Master				3779
	4900 (Minimum)	6800 (Nominal)	7900 (Maximum)		7800 (Minimum)	10800 (Nominal)	12600 (Maximum)		3300 (Minimum)	4600 (Nominal)	5400 (Maximum)			
Phase	SSW5 Iron CPS			Value										
Master				445.3										
	420.0 (Minimum)	580.0 (Nominal)	680.0 (Maximum)											
Master: 30-Jun-2006 14:48														

Master: 30-Jun-2006 14:48

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	<div><div></div></div>			1.033	Master	<div><div></div></div>			2.212	Master	<div><div></div></div>			0.5927
	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)	
Phase	AL CALIBRATION RATIO 4			Value	Phase	Pad-Wear SS Ratio			Value	Phase	Pad-Wear LS Ratio			Value
Master	<div><div></div></div>			0.5876	Master	<div><div></div></div>			0.9817	Master	<div><div></div></div>			0.9840
	0.4000 (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	<div><div></div></div>			1.000	Master	<div><div></div></div>			1.001					
	0.9900 (Minimum)	0.9940 (Nominal)	1.015 (Maximum)			0.9850 (Minimum)	0.9940 (Nominal)	1.010 (Maximum)						

Master: 30-Jun-2006 14:45

Litho-Density Spectroscopy Cartridge - B / Equipment Identification

Primary Equipment:
LDSC Cartridge

LDSC - B

366

Auxiliary Equipment:

Accelerator-Porosity Tool / Equipment Identification

Primary Equipment:

Accelerator-Porosity Sonde
APS Minitron

APS - C
MNTR - F

22
4185

Auxiliary Equipment:











Accelerator-Porosity Housing
APS Calibration Water Tank
APS Aluminum Calibrator Sleeve

APH - AC
SFT - 178
SFT - 281

22
6250
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
Master		31.75	Master		32.74	Master		30.56
Before		32.27	Before		32.67	Before		30.50
	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)	
Phase	Array-2 Det Bkg Cntrate CPS	Value	Phase	Array Therm Det Bkg Cntrate CPS	Value			
Master		30.26	Master		33.53			
Before		28.56	Before		30.97			
	1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)			1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)				
Master: 2-May-2006 10:19			Before: 2-Jul-2006 9:13					







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
Master		0.8849	Master		1.056	Master		1.005
	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: 2-May-2006 10:19								




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		11.48	Master		11.75	Master		5.866
	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		0.9981	Master		0.9906	Master		27.45
	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: 2-May-2006 10:19								







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		0.8849	Master		1.056	Master		1.005
	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: 2-May-2006 10:19								

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		11.48	Master		11.75	Master		5.866
	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		0.9981	Master		0.9906	Master		27.45
	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)	

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: 2-May-2006 10:19								

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	204
Gamma Source Radioactive	GSR – U	135

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 1 Check

Detector 1 Check														
Phase	Na 511 Peak Loc		Value	Phase	Na 511 Peak Res %		Value	Phase	High Voltage V		Value			
Master			39.62	Master			16.93	Master			1121			
Before			39.60	Before			16.47	Before			1121			
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			142.7	Master			8.182	Master			35.18			
Before			142.2	Before			8.976	Before			35.24			
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			38.31											
Before			38.74											
10.00 (Minimum)			45.00 (Nominal)									100.0 (Maximum)		

Master: 2-Jul-2006 9:00

Before: 2-Jul-2006 9:13

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			39.76	Master			15.53	Master			1204	
Before			39.66	Before			16.80	Before			1204	
37.50 (Minimum)			40.00 (Nominal)	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			141.4	Master			9.455	Master			33.94	
Before			141.8	Before			8.863	Before			33.92	
135.0 (Minimum)			142.6 (Nominal)	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			38.11									
Before			38.47									
10.00 (Minimum)			45.00 (Nominal)									100.0 (Maximum)






Master: 2-Jul-2006 9:00

Before: 2-Jul-2006 9:13

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

Phase	Coincidence Count Rate Ratio	Value
Master		1.004
Before		1.009
0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)		
Master: 2-Jul-2006 9:00		
Before: 2-Jul-2006 9:13		

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			209.0	Master			7.177	
38.00 (Minimum)			40.00 (Nominal)	201.0 (Minimum)			209.6 (Nominal)	5.000 (Minimum)			7.000 (Nominal)	9.000 (Maximum)
Phase	Background Count Rate CPS		Value	Phase	Gain Ratio		Value					
Master			23.81	Master			1.003					
20.00 (Minimum)			142.5 (Nominal)	0.9400 (Minimum)			1.000 (Nominal)					1.060 (Maximum)
Master: 2-Jul-2006 8:54												

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			209.8	Master			7.534
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			32.63	Master			1.004				
20.00 (Minimum) 142.5 (Nominal) 265.0 (Maximum)				0.9400 (Minimum) 1.000 (Nominal) 1.060 (Maximum)							
Master: 2-Jul-2006 8:54											

Company: **Lamont Doherty**

Schlumberger

Well: **NGHP-01-03C**

Field:

RIG **Joides Resolution**

Ocean **Bengal Bay**

Hostile Natural Gamma Ray Tool