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OTHER SERVICES1 OS1: FMS OS2: UBI OS3: DITE OS4: HLDS/APS OS5: GBM	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
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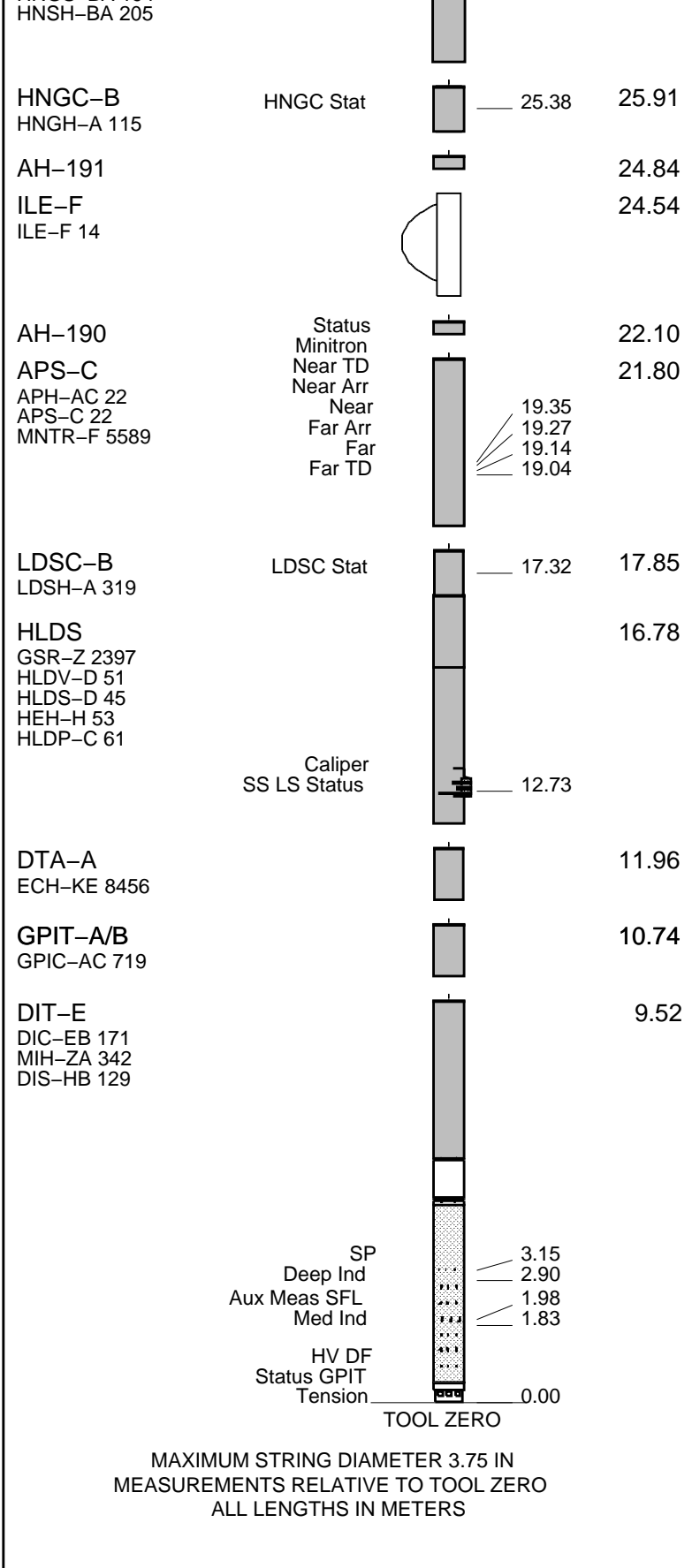
REMARKS: RUN NUMBER 1 Depths originally recorded from drill floor as main depth reference. Log files were played back with offset of 1570m to force sea floor as the new reference. This log references sea floor at 0 m. TD of hole at 522m (driller), 520 m (log)  Tools run inside drill pipe and drill collars thru bit release and BHA. 9 7/8" bit released prior to logging. ID of pipe at minimum is 4.1" diameter. ILE inline eccentralizer run for APS porosity tool to eccentralize it. GPIT run with tool for Active Heave Compensator testing (AHC). GR spike at 75m possibly related to APS neutron activation by correcting wrap on cable drum requiring toolstring to descend in order to repair. Repeat section shows GR at slightly ligher level due to Neutron activation of the borehole.  Multiple attempts at logging this hole were made, with last attempt being successful after full wiper trip and drilling through obstructions.	REMARKS: RUN NUMBER 2
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RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION:		17C0-154	PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

**EQUIPMENT DESCRIPTION**

RUN 1		RUN 2	
<b>SURFACE EQUIPMENT</b>			
SFT-281 1			
SFT-178 1			
GSR-U 616008			
WITM (DTS)-A			

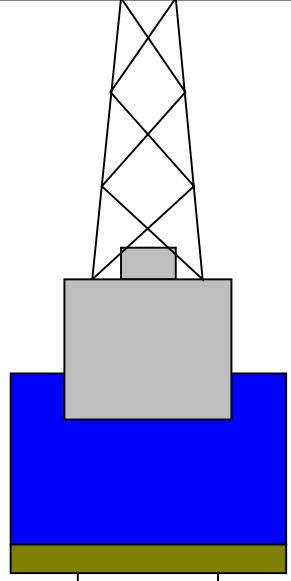
<b>DOWNHOLE EQUIPMENT</b>			
LEH-QT		30.21	
LEH-QT 301			
DTC-H	CTEM	29.04	
ECH-KC 1777	TelStatus	29.32	
	ToolStatu	28.41	
HNGS-BA	Upper_1	27.71	28.41
HNGS-BA 194	Lower_2	27.50	



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

Kelly Bushing Elevation  
Derrick Floor Elevation  
  
Mean Sea Level

-1570  
-1570  
  
-1550



4.1



0  
128  
  
522

4.1  
9.875

Sea Floor  
Open Hole  
  
Total Depth

### Input DLIS Files

PI_LDL_APS_NGS_028LUP	FN:48	20-Jan-2011 21:03	1819.7 M	1549.7 M
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### Output DLIS Files

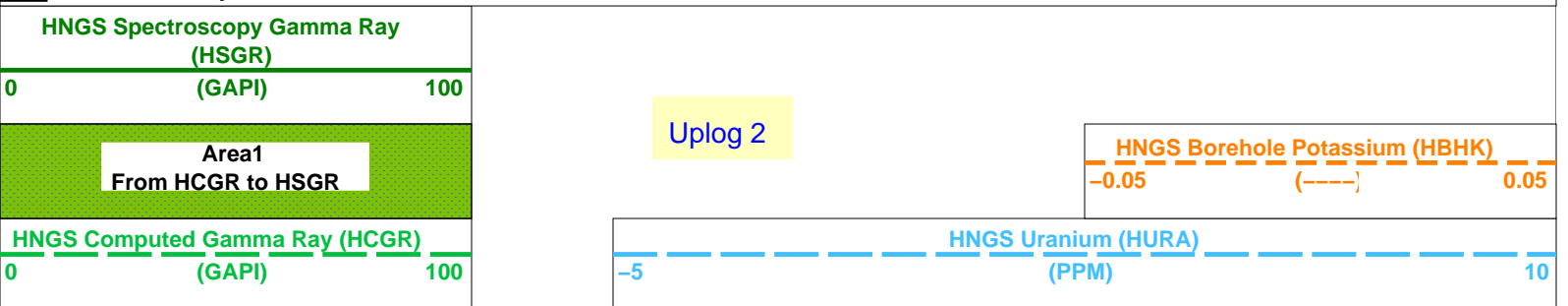
DEFAULT	PI_LDL_APS_NGS_114PUP	FN:4	PRODUCER	11-Feb-2011 07:08	249.9 M	-20.3 M
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### OP System Version: 17C0-154

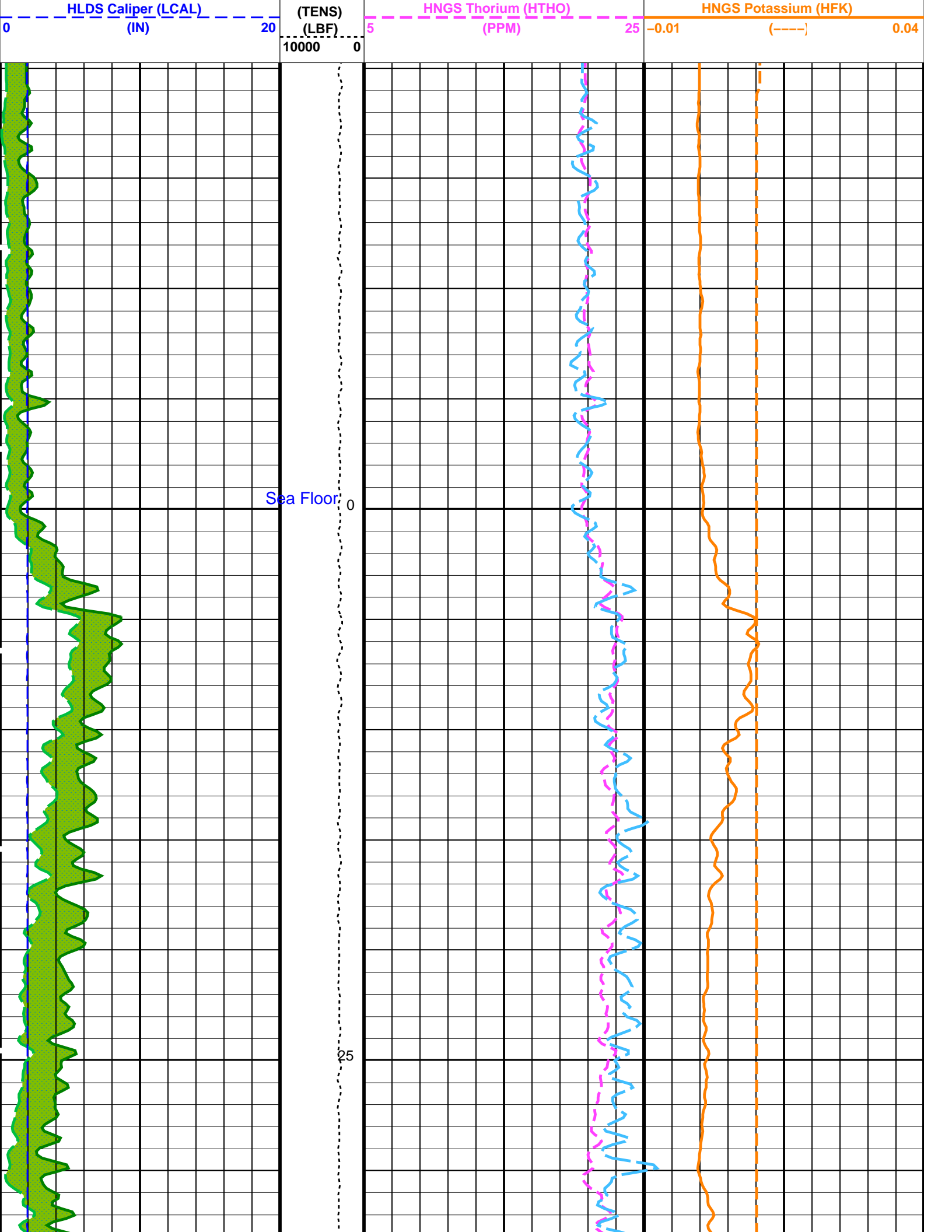
DIT-E	17C0-154	GPIT-A/B	SRPC-3971-Q1_2010_OP17
DTA-A	17C0-154	HLDS	SPC-3961-OP17_NUCL
LDSC-B	SPC-3961-OP17_NUCL	APS-C	SPC-3961-OP17_NUCL
HNGC-B	SPC-3961-OP17_NUCL	HNGS-BA	SPC-3961-OP17_NUCL
DTC-H	17C0-154		

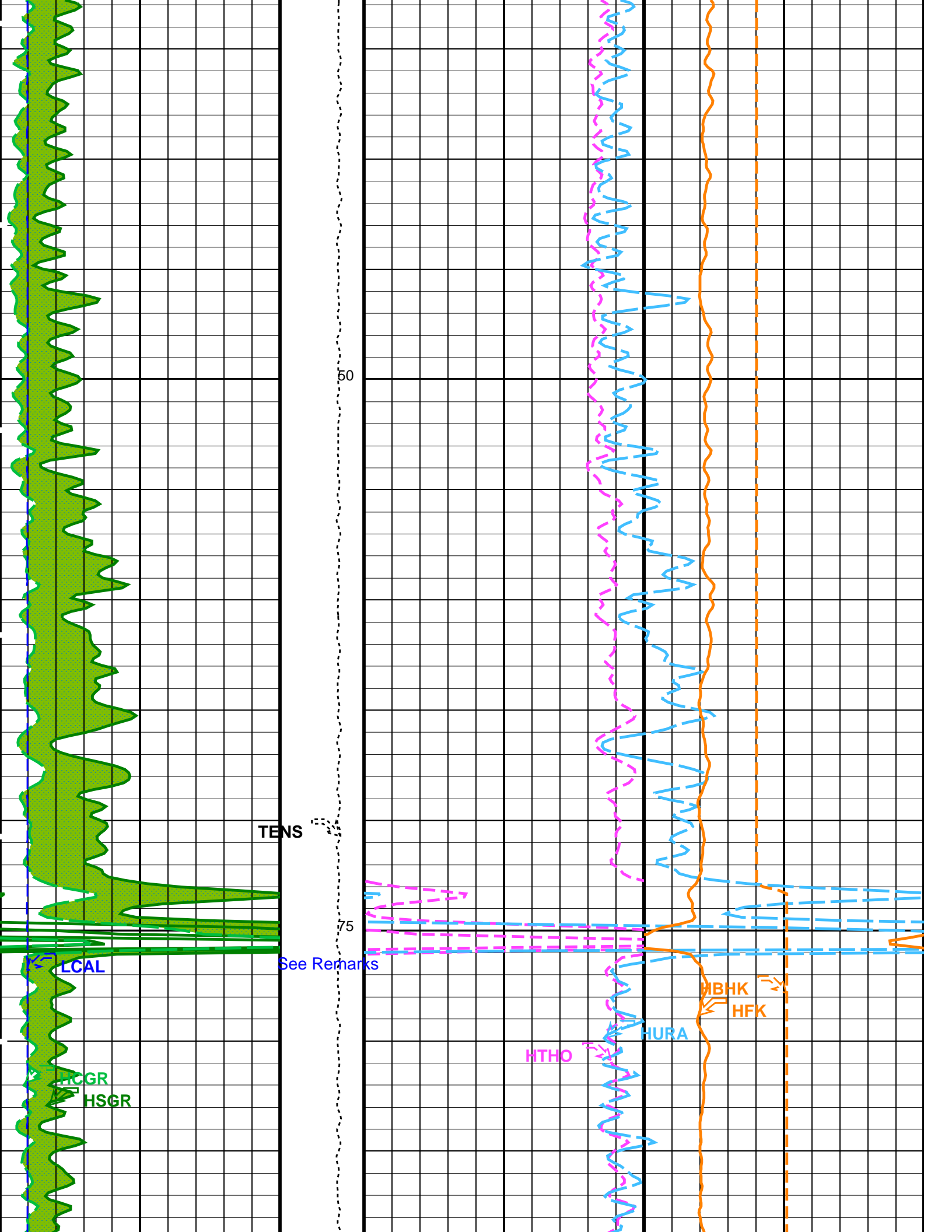
### PIP SUMMARY

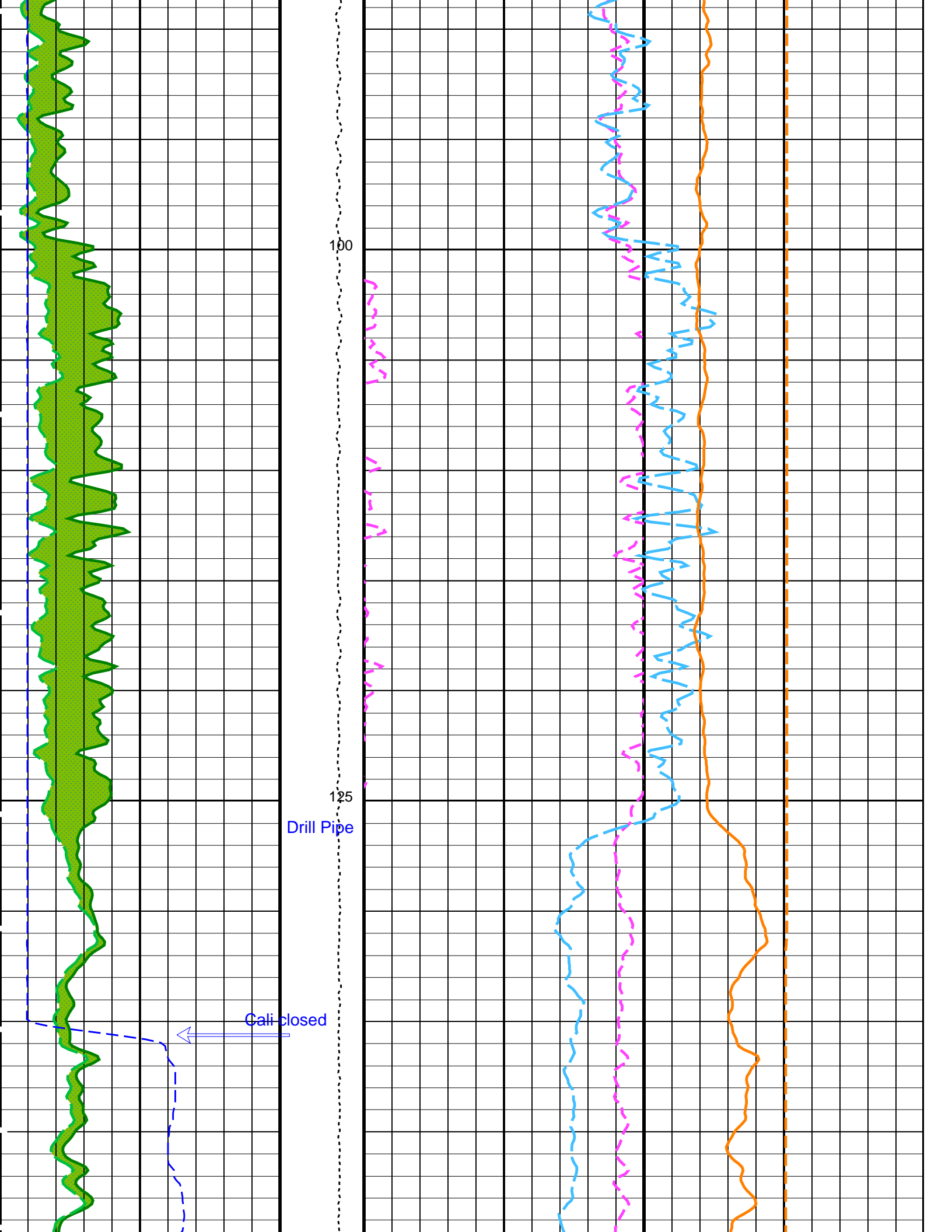
Time Mark Every 60 S



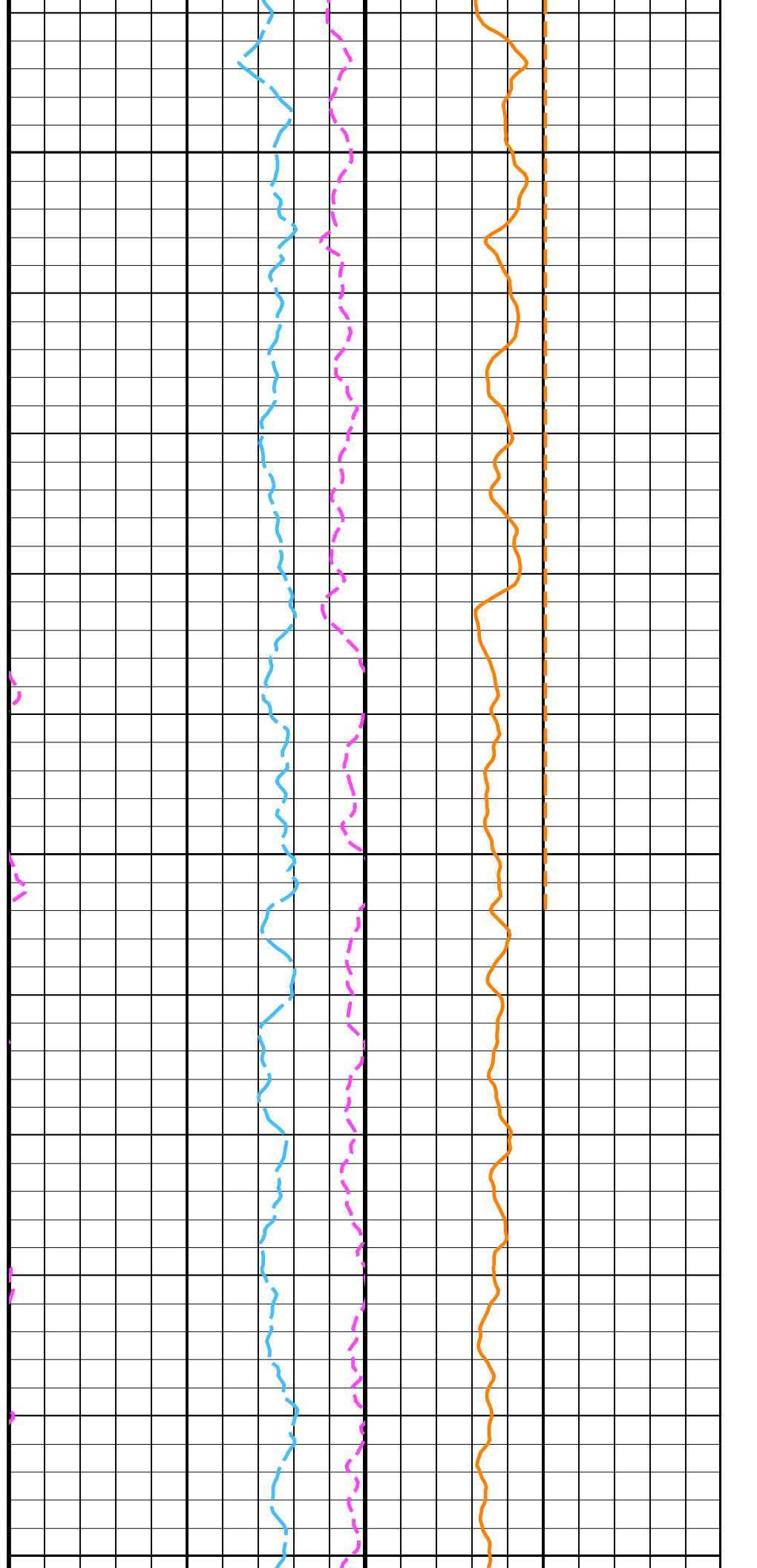
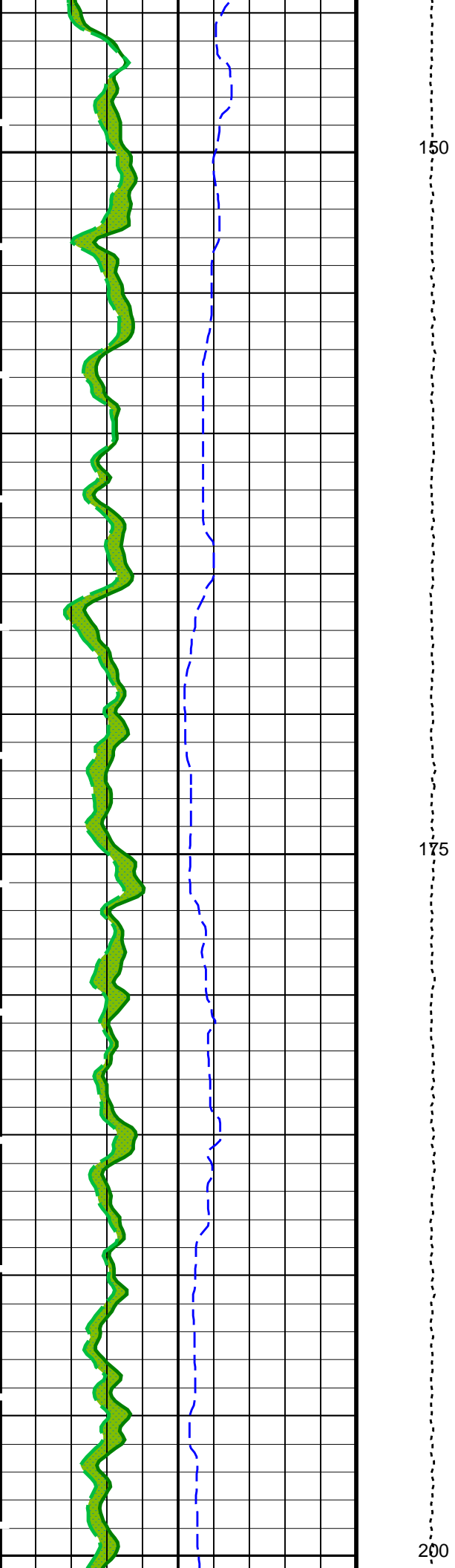
Tension

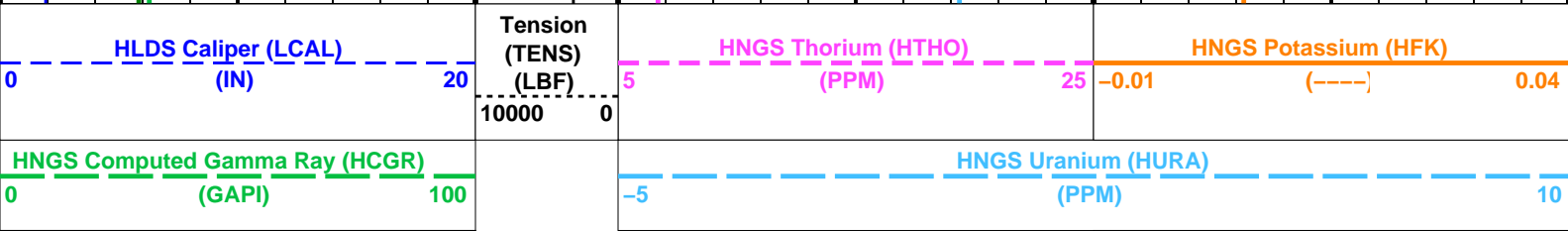
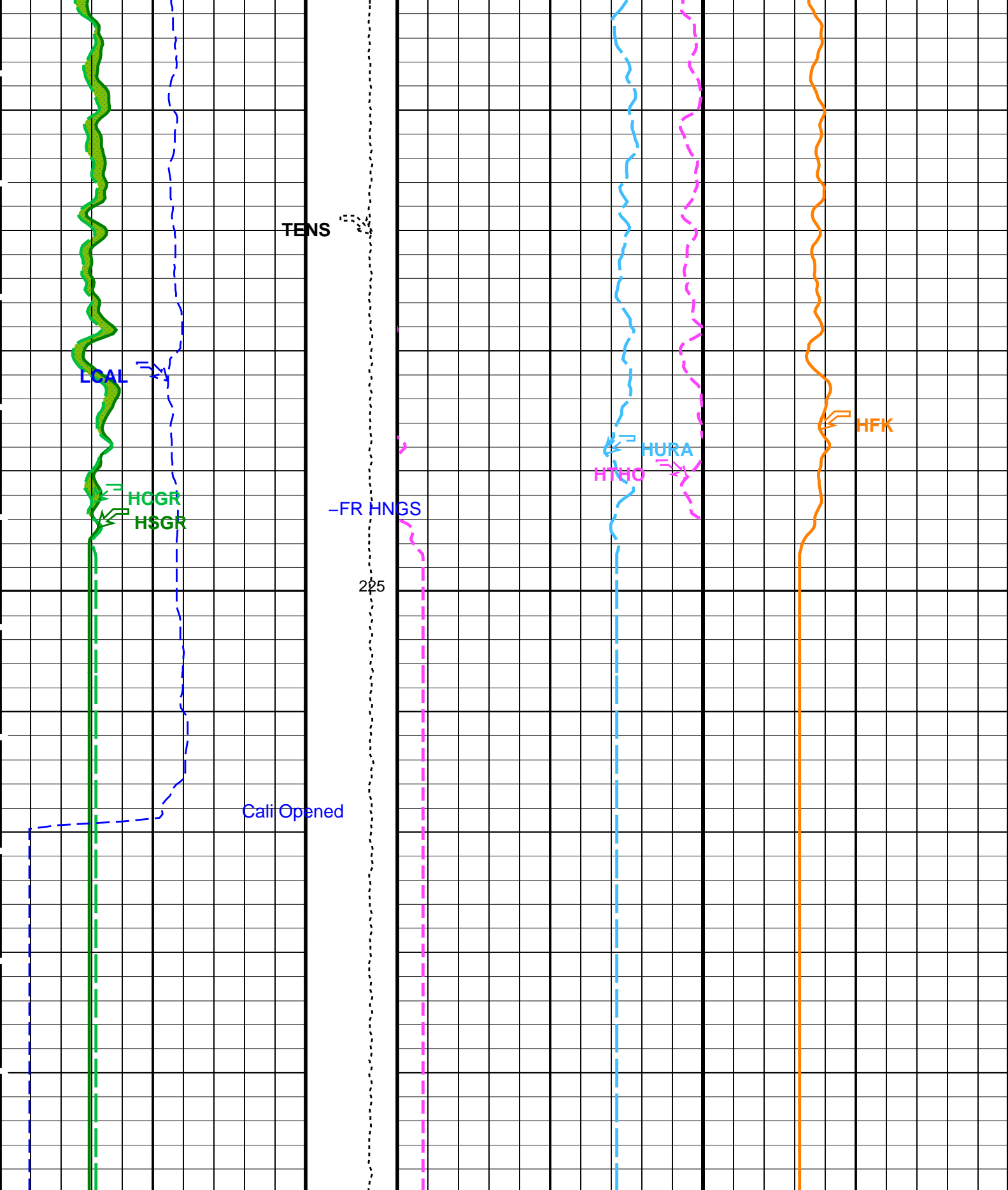












PIP SUMMARY

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	-0.00157462	
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	3.2086	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.99686	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.08	G/C3
DO	Depth Offset for Playback	-1570.0	M
PP	Playback Processing	NORMAL	

Format: HNGSYields Vertical Scale: 1:200

Graphics File Created: 11-Feb-2011 07:08

OP System Version: 17C0-154

DIT-E	17C0-154	GPIT-A/B	SRPC-3971-Q1_2010_OP17
DTA-A	17C0-154	HLDS	SPC-3961-OP17_NUCL
LDSC-B	SPC-3961-OP17_NUCL	APS-C	SPC-3961-OP17_NUCL
HNGC-B	SPC-3961-OP17_NUCL	HNGS-BA	SPC-3961-OP17_NUCL
DTC-H	17C0-154		

Input DLIS Files

PI\_LDL\_APS\_NGS\_028LUP FN:48 20-Jan-2011 21:03 1819.7 M 1549.7 M

Output DLIS Files

DEFAULT PI\_LDL\_APS\_NGS\_114PUP FN:4 PRODUCER 11-Feb-2011 07:08

Input DLIS Files

PI\_LDL\_APS\_NGS\_027LUP FN:46 20-Jan-2011 18:58 2089.4 M 1553.7 M

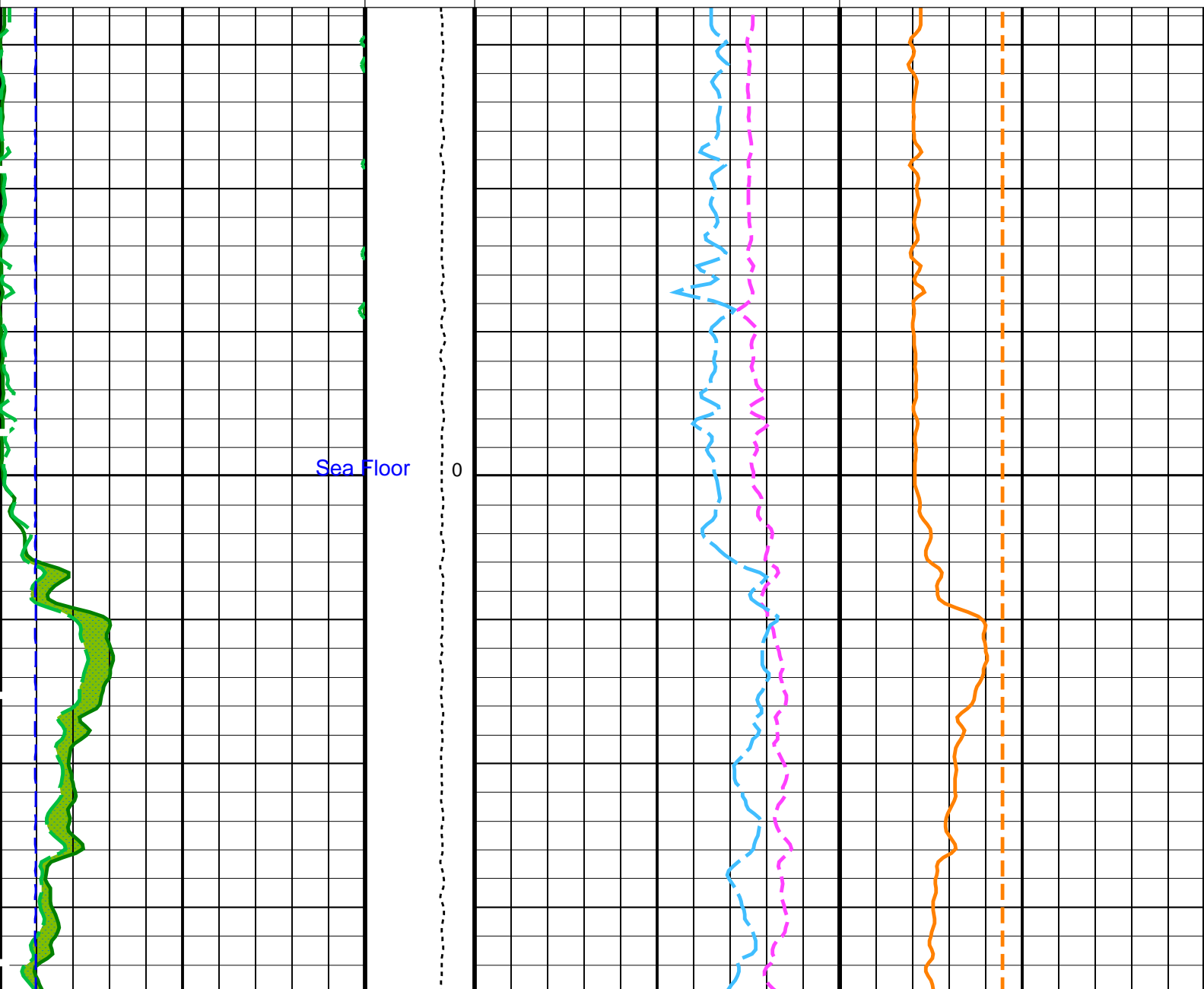
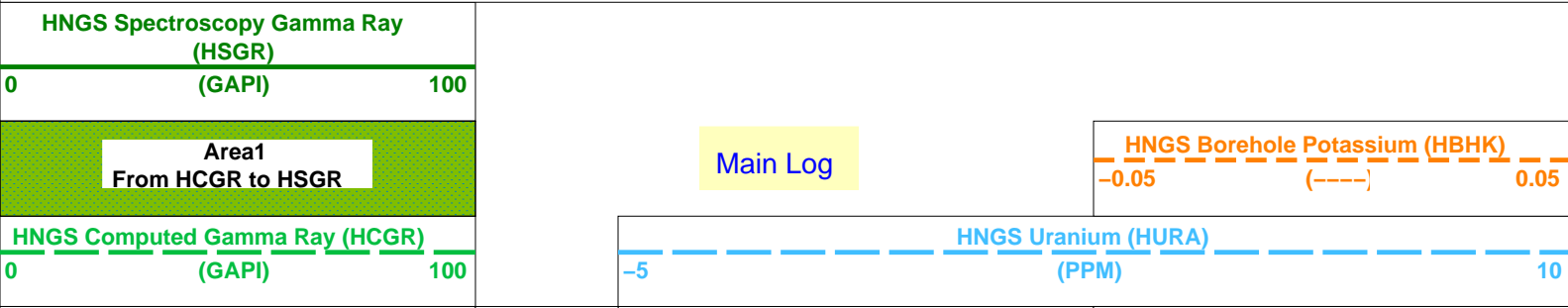
Output DLIS Files

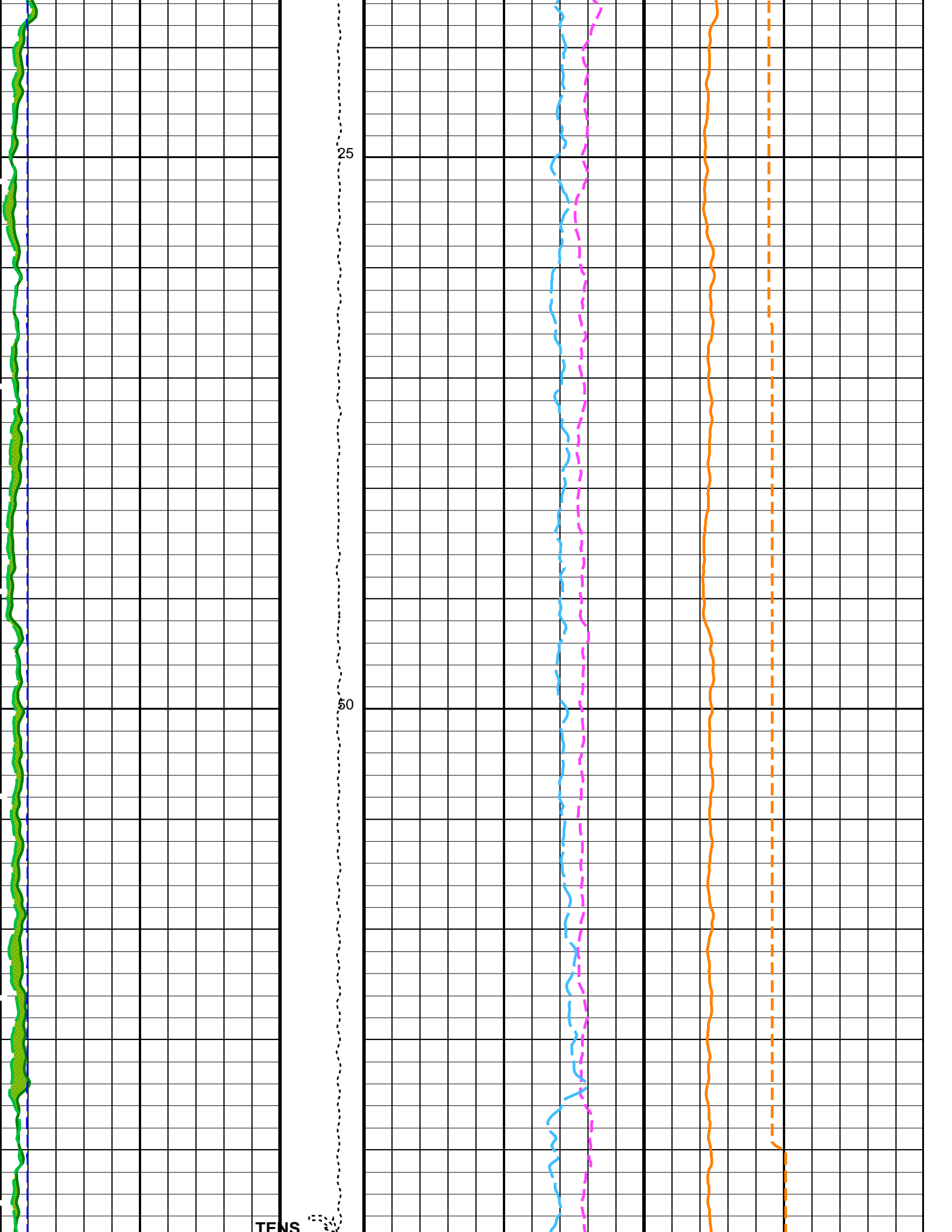
# OP System Version: 17C0-154

DIT-E	17C0-154	GPIT-A/B	SRPC-3971-Q1_2010_OP17
DTA-A	17C0-154	HLDS	SPC-3961-OP17_NUCL
LDSC-B	SPC-3961-OP17_NUCL	APS-C	SPC-3961-OP17_NUCL
HNGC-B	SPC-3961-OP17_NUCL	HNGS-BA	SPC-3961-OP17_NUCL
DTC-H	17C0-154		

## PIP SUMMARY

Time Mark Every 60 S

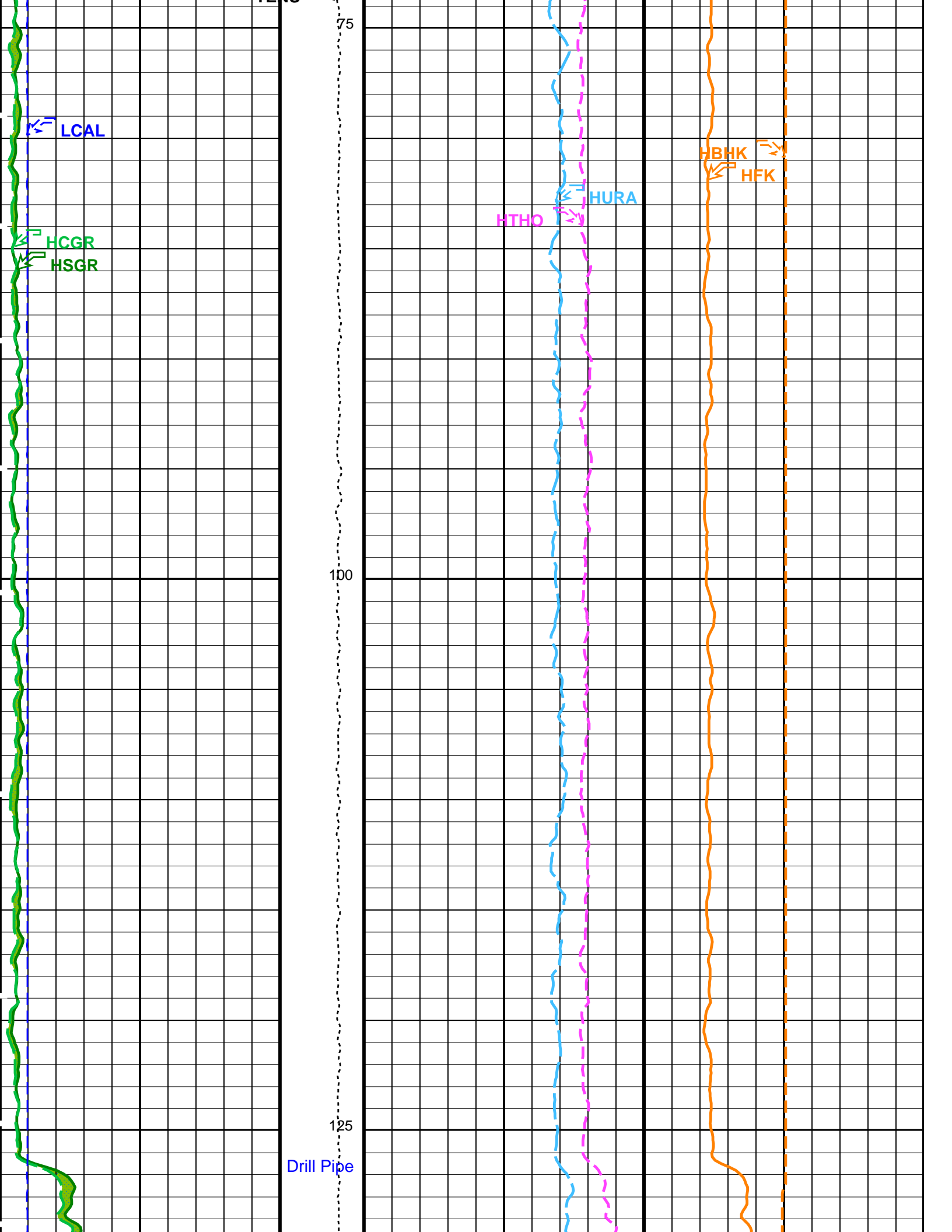




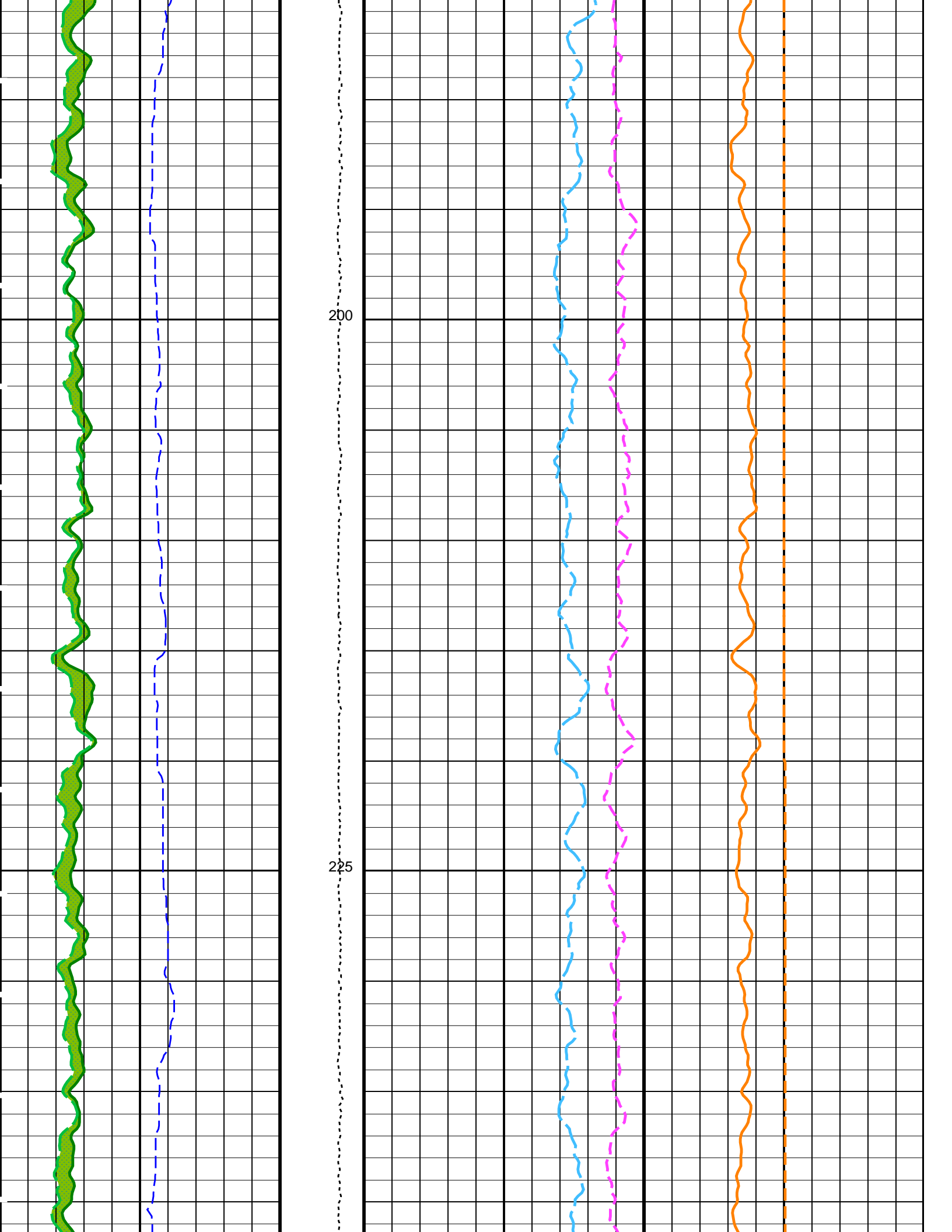
25

50

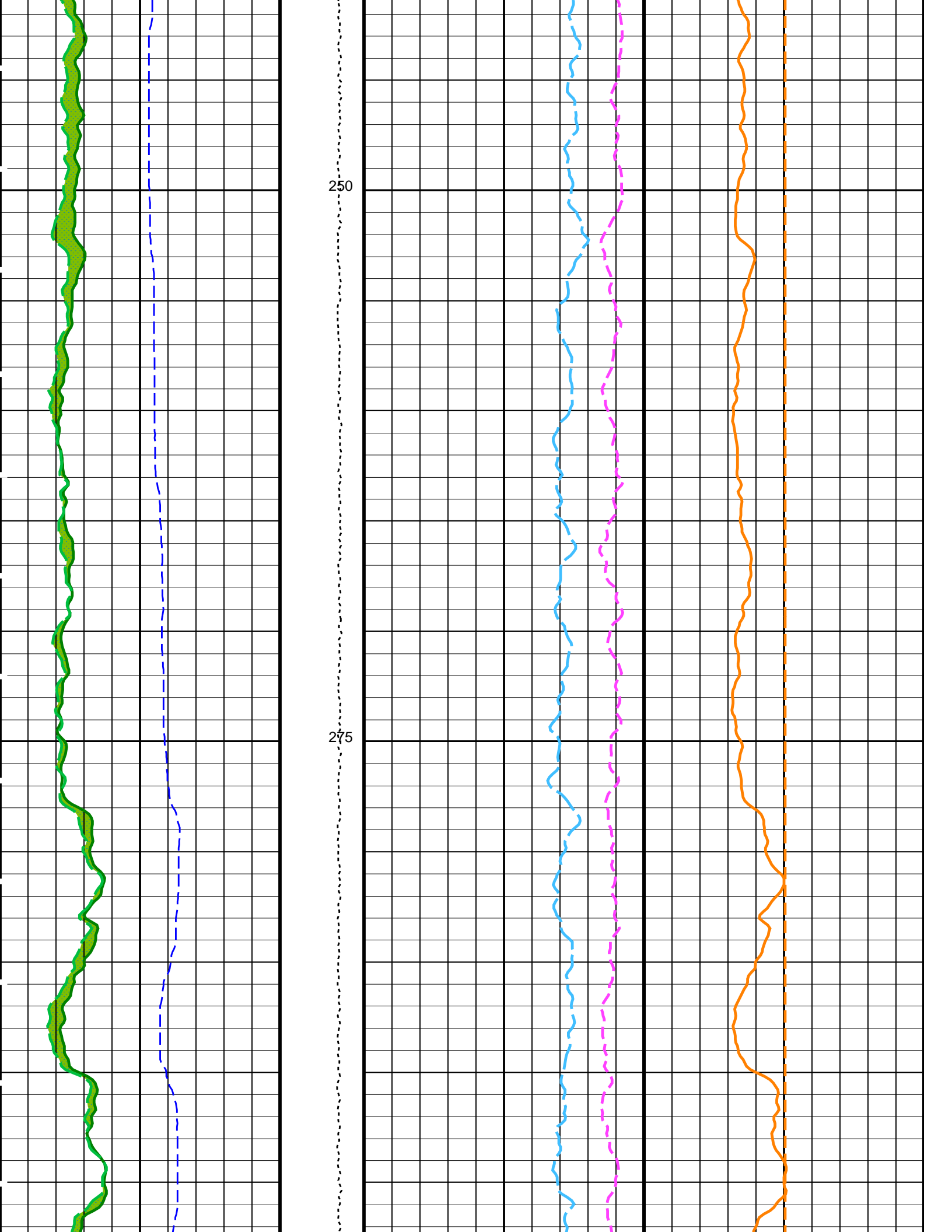
TENS

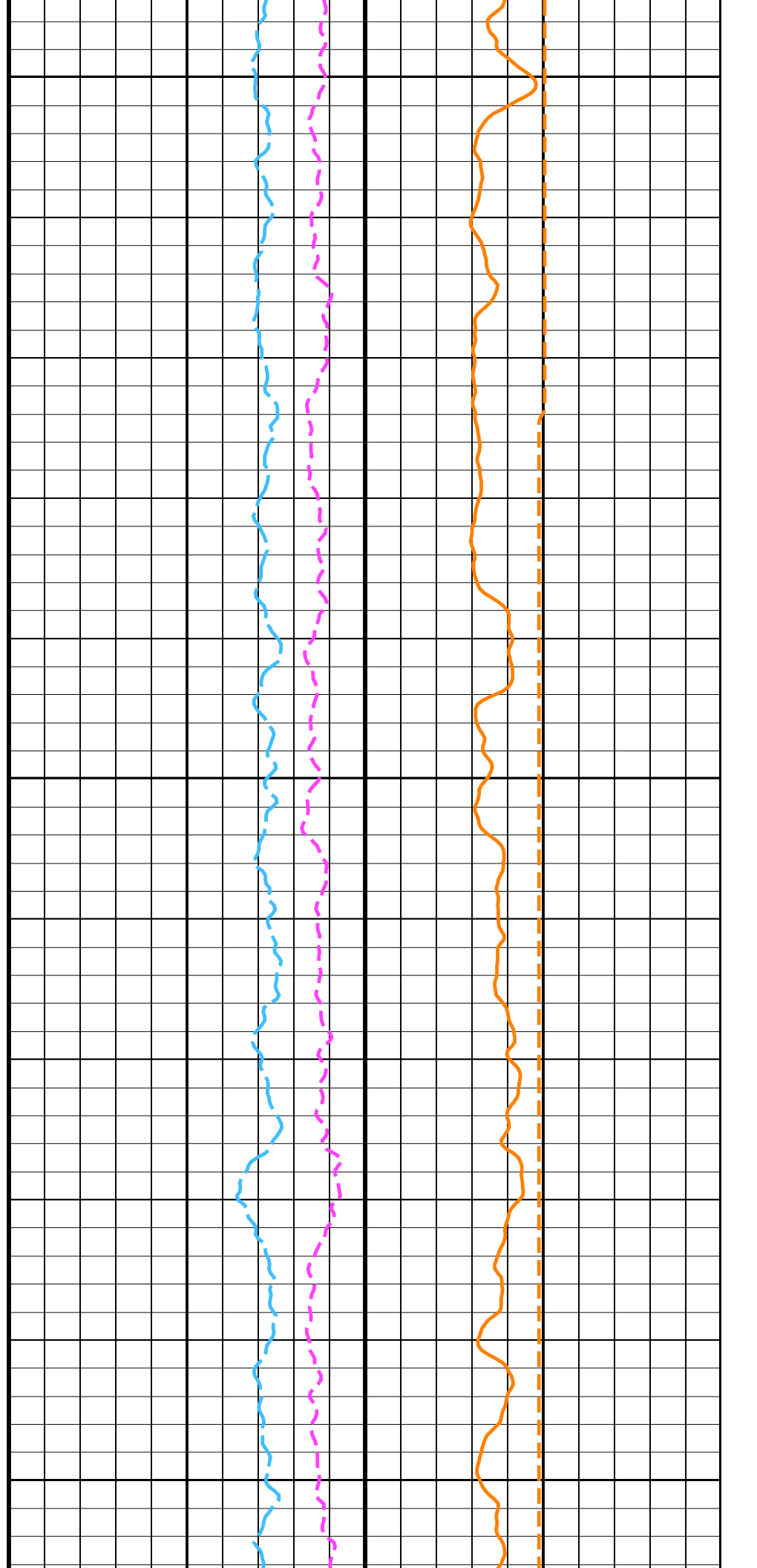
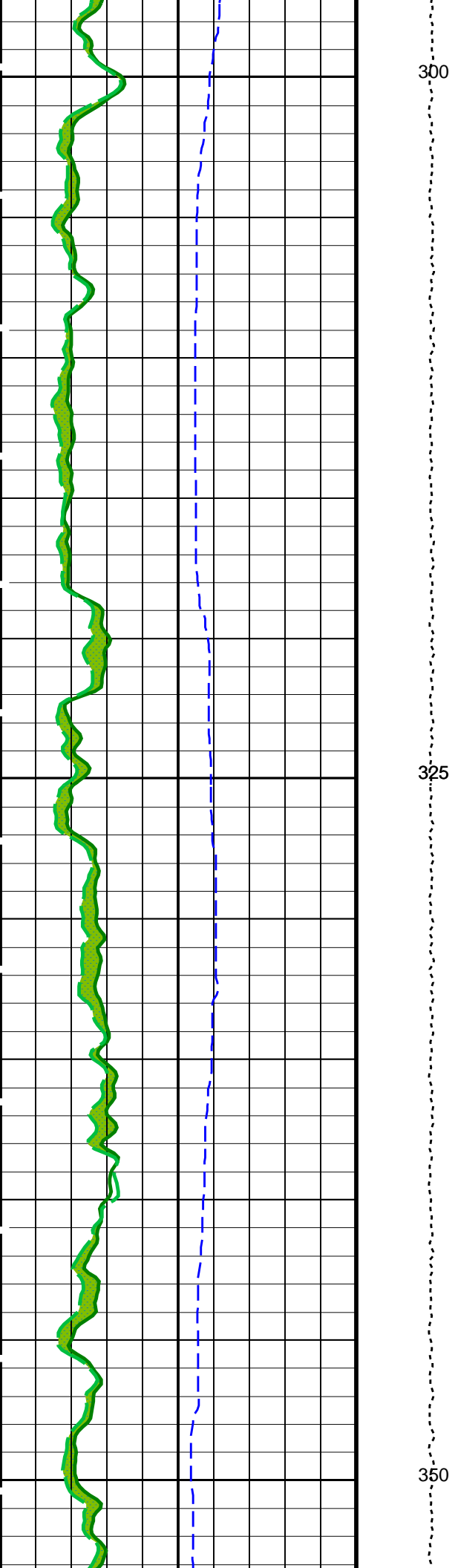


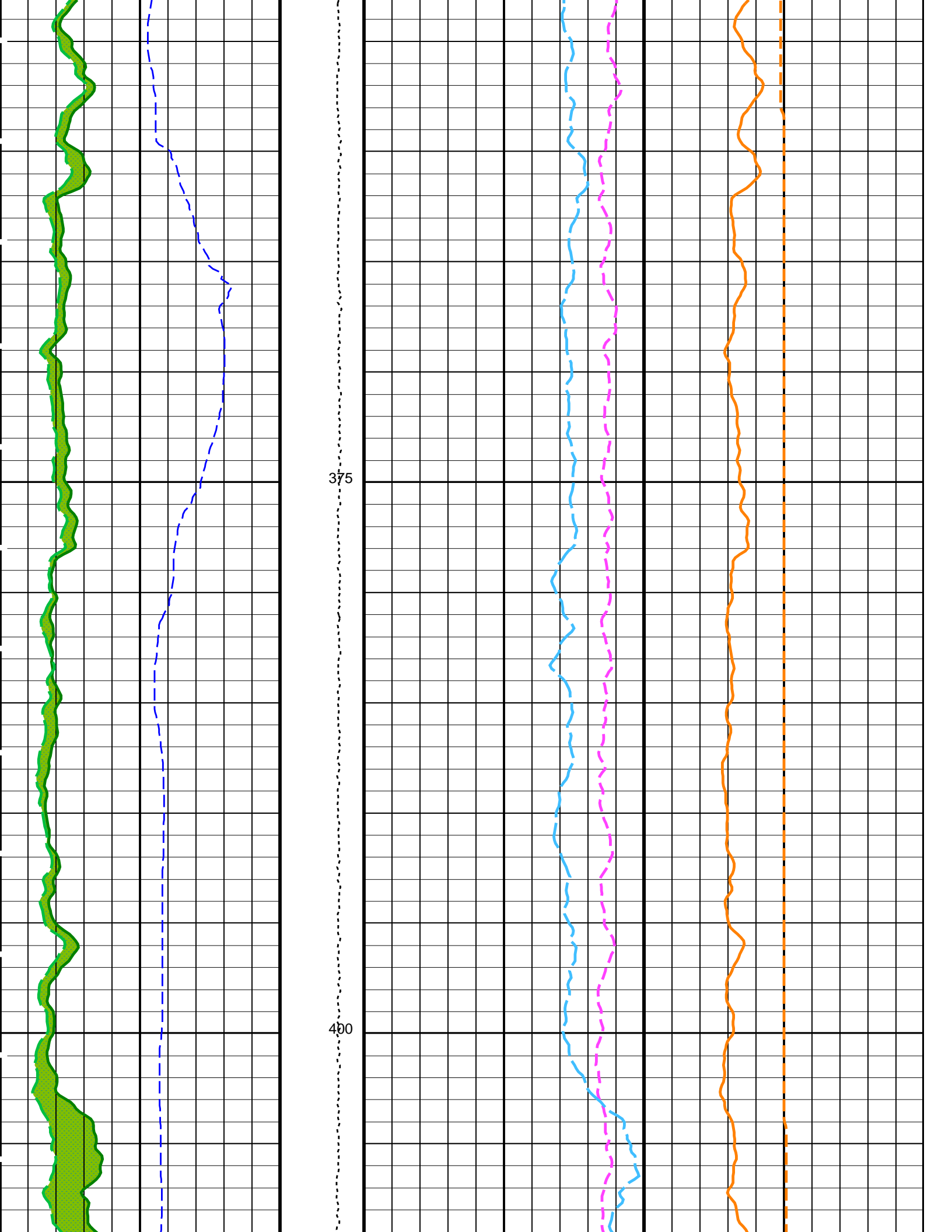


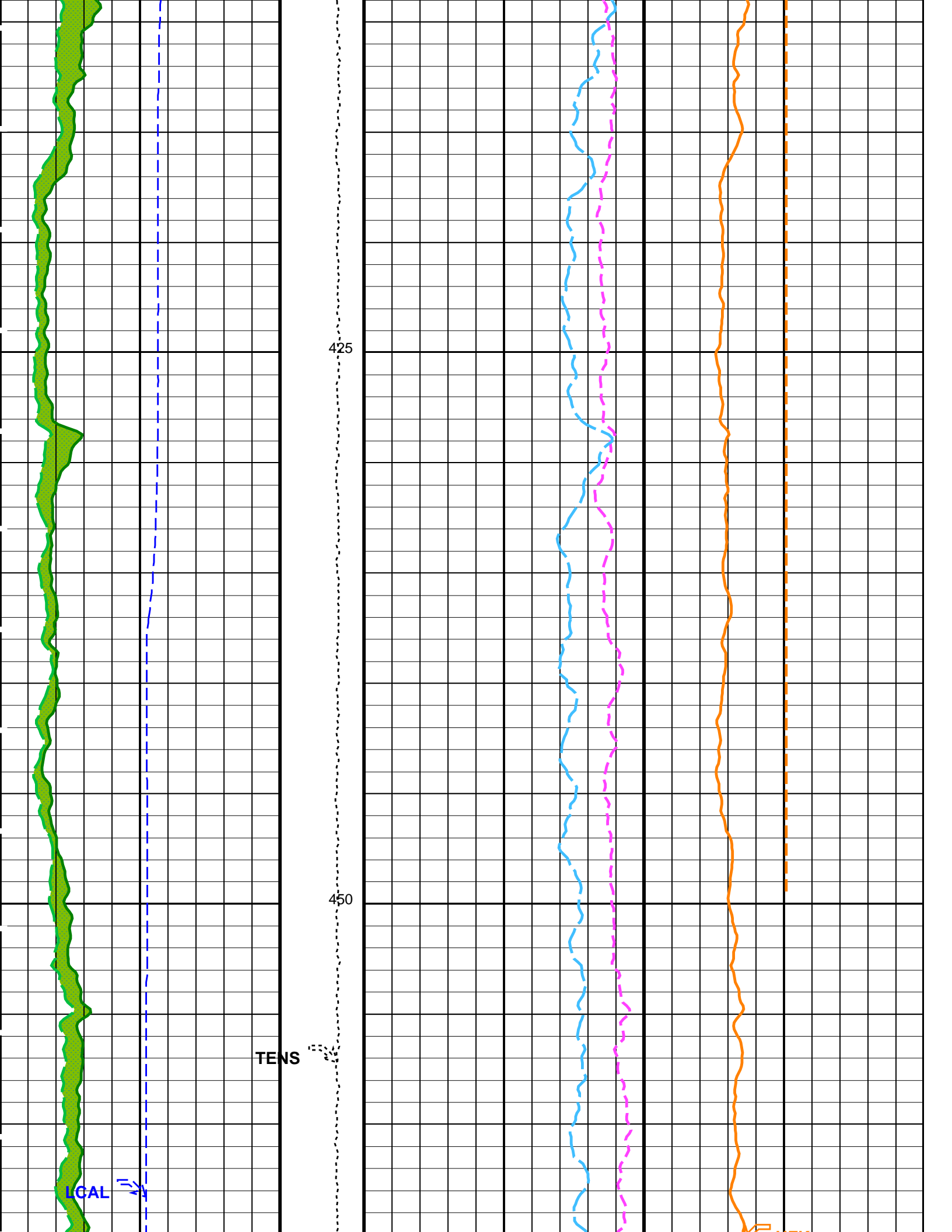










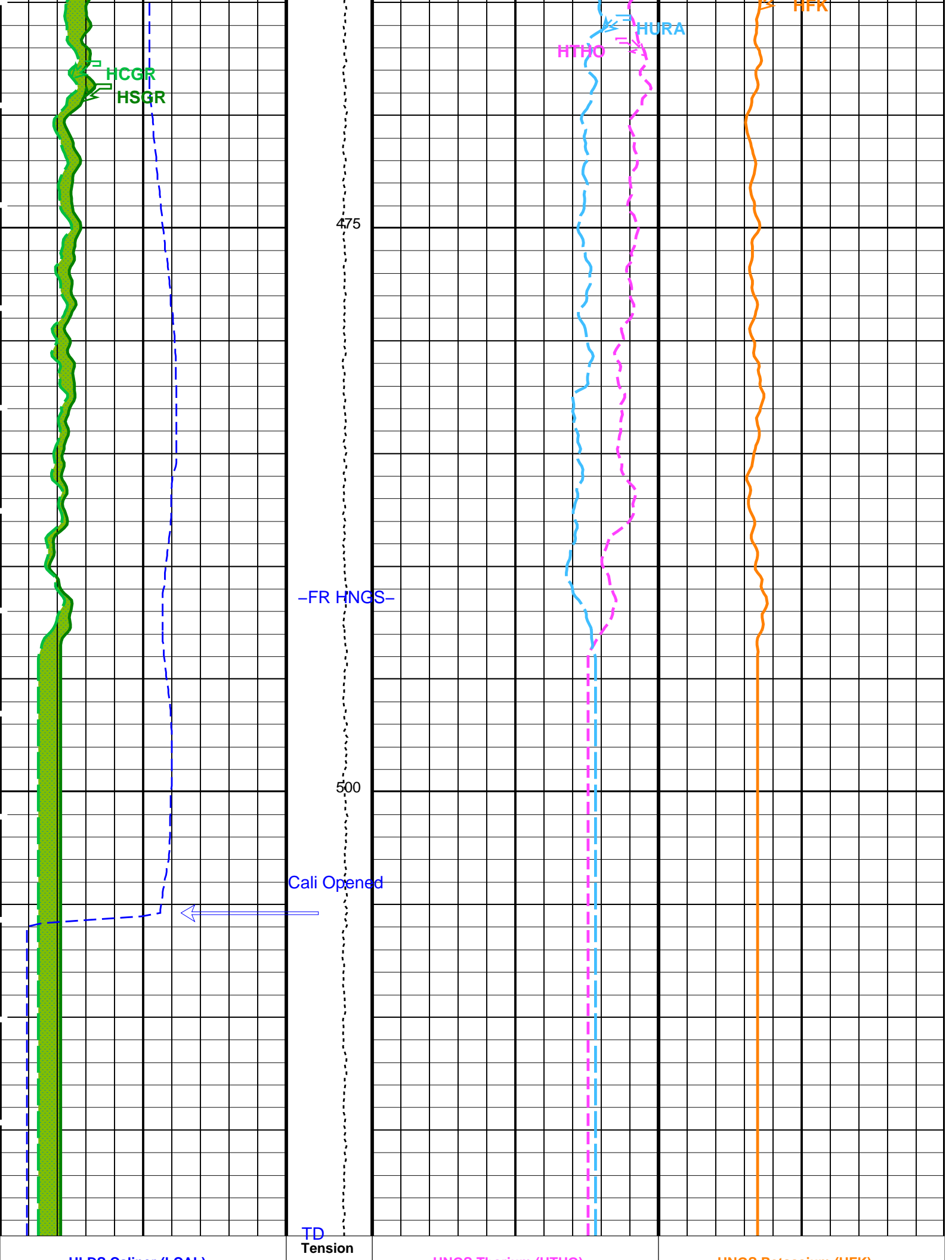


425

450

TENS

LGAL



0	HLDS Caliper (LCAL) (IN)	20	(TENS) (LBF)	5	HNGS Thorium (H1HO) (PPM)	25	HNGS Potassium (HFK)	-0.01	(-----)	0.04
0	HNGS Computed Gamma Ray (HCGR) (GAPI)	100	10000	0			HNGS Uranium (HURA) (PPM)	-5		10
Area1 From HCGR to HSGR			Main Log			HNGS Borehole Potassium (HBHK) -0.05 (-----) 0.05				
0	HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)	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	-0.00157462	
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	3.2086	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.99686	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.08	G/C3
DO	Depth Offset for Playback	-1570.0	M
PP	Playback Processing	NORMAL	

Format: HNGSYields Vertical Scale: 1:200

Graphics File Created: 11-Feb-2011 06:49

OP System Version: 17C0-154

DIT-E	17C0-154	GPIT-A/B	SRPC-3971-Q1_2010_OP17
DTA-A	17C0-154	HLDS	SPC-3961-OP17_NUCL
LDSC-B	SPC-3961-OP17_NUCL	APS-C	SPC-3961-OP17_NUCL
HNGC-B	SPC-3961-OP17_NUCL	HNGS-BA	SPC-3961-OP17_NUCL
DTC-H	17C0-154		

Input DLIS Files

PI_LDL_APS_NGS_027LUP	FN:46	20-Jan-2011 18:58	2089.4 M	1553.7 M
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Output DLIS Files

DEFAULT	PI_LDL_APS_NGS_113PUP	FN:3	PRODUCER	11-Feb-2011 06:49
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Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
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General Purpose Inclinometer Wellsite Calibration – CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY

Before: 20-Jan-2011 17:32

TEMPERATURE REFERENCE :	N/A	N/A	20	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	92	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	10	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	448	N/A	N/A	N/A	

General Purpose Inclinometer Wellsite Calibration – CROUZET MAGNETOMETER PROM HAS BEEN READ CORRECTLY

Before: 20-Jan-2011 17:32

TEMPERATURE REFERENCE :	N/A	N/A	19	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	99	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	12	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	428	N/A	N/A	N/A	

Hostile Litho-Density Sonde Wellsite Calibration – Background Measurement

Master: 11-Dec-2010 5:21 Before: 25-Dec-2010 6:05 After: 20-Jan-2011 22:53

SS Cs Resolution Bkg	9.000	8.370	8.517	8.559	0.04145	1.800	%
LS Cs Resolution Bkg	9.000	8.635	8.619	8.561	-0.05882	1.800	%
LSW1 Background	100.0	72.88	72.56	72.31	-0.2549	0.03000	CPS
LSW2 Background	100.0	66.98	66.25	67.15	0.9066	0.03000	CPS
LSW3 Background	200.0	151.3	148.8	149.7	0.9136	0.03000	CPS
LSW4 Background	250.0	184.5	182.4	182.2	-0.1443	0.03000	CPS
LSW5 Background	600.0	415.6	412.8	415.5	2.671	0.03000	CPS
SSW1 Background	100.0	72.08	71.78	71.62	-0.1605	0.03000	CPS
SSW2 Background	200.0	125.4	126.6	125.2	-1.397	0.03000	CPS
SSW3 Background	500.0	334.7	333.8	328.9	-4.811	0.03000	CPS
SSW4 Background	270.0	178.2	178.2	178.4	0.2584	0.03000	CPS
SSW5 Background	200.0	127.8	127.9	128.7	0.8630	0.03000	CPS

Hostile Litho-Density Sonde Wellsite Calibration – Aluminum Measurement

Master: 11-Dec-2010 5:21

LSW1 Aluminum	600.0	532.4	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	783.1	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	957.6	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	481.5	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	443.6	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	2267	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	6468	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	9431	N/A	N/A	N/A	N/A	CPS
SSW4 Aluminum	5000	3976	N/A	N/A	N/A	N/A	CPS
SSW5 Aluminum	660.0	532.8	N/A	N/A	N/A	N/A	CPS

Hostile Litho-Density Sonde Wellsite Calibration – Lithology Measurement

Master: 11-Dec-2010 5:21

LSW1 Iron	400.0	362.4	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	636.5	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	851.8	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	439.8	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	412.4	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1712	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	5497	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	8763	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	3715	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	488.7	N/A	N/A	N/A	N/A	CPS

Hostile Litho-Density Sonde Wellsite Calibration – Caliper Calibration

Before: 25-Dec-2010 5:54

HLDS Caliper Small Ring	11.88	N/A	13.51	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	15.19	N/A	17.01	N/A	N/A	N/A	IN

Accelerator-Porosity Tool Wellsite Calibration – Detector Background

Master: 11-Dec-2010 9:00 Before: 20-Jan-2011 17:41 After: 20-Jan-2011 21:56

Near Det Bkg Cntrate	30.00	32.95	32.44	30.93	-1.502	N/A	CPS
Far Det Bkg Cntrate	30.00	32.12	33.19	33.43	0.2337	N/A	CPS
Array-1 Det Bkg Cntrate	30.00	29.56	29.36	28.81	-0.5505	N/A	CPS
Array-2 Det Bkg Cntrate	30.00	29.68	29.66	28.93	-0.7340	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	31.39	34.13	34.43	0.2992	N/A	CPS

Accelerator-Porosity Tool Wellsite Calibration – Calibration Ratios

Master: 11-Dec-2010 9:00

Near/Far Calibration Ratio	0.9250	0.8904	N/A	N/A	N/A	N/A	
Near/Array Calibration Ratio	1.030	1.060	N/A	N/A	N/A	N/A	
Near/Array Cal Ratio Up/Down	1.000	0.9962	N/A	N/A	N/A	N/A	

## Accelerator-Porosity Tool Wellsite Calibration – Tank Check

Master: 11-Dec-2010 9:00

Array-1 Standoff Porosity	11.75	12.03	N/A	N/A	N/A	N/A	PU
Array-2 Standoff Porosity	11.75	11.87	N/A	N/A	N/A	N/A	PU
Average Slowing Down Time	6.000	5.811	N/A	N/A	N/A	N/A	US
Array-1 SDT Ratio Up/Down	1.000	1.003	N/A	N/A	N/A	N/A	
Array-2 SDT Ratio Up/Down	1.000	0.9944	N/A	N/A	N/A	N/A	
Sigma Formation	27.50	28.18	N/A	N/A	N/A	N/A	CU

## Accelerator-Porosity Tool Wellsite Calibration – CCR7 signal boxes

Master: 11-Dec-2010 8:15

Near Detector Plateau Setting	1650	1734	N/A	N/A	N/A	N/A	V
Far Detector Plateau Setting	2000	2080	N/A	N/A	N/A	N/A	V
Array Detector Plateau Setting	2000	1968	N/A	N/A	N/A	N/A	V

## Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 1 Check

Master: 10-Dec-2010 8:35 Before: 25-Dec-2010 5:54 After: 20-Jan-2011 22:54

Na 511 Peak Loc	40.00	39.66	39.55	39.70	0.1545	1.000	
Na 511 Peak Res	15.50	14.96	16.05	14.90	-1.148	2.000	%
High Voltage	1150	1187	1209	1176	-33.65	N/A	V
Na 1785 Peak Loc	142.6	141.8	142.2	142.3	0.1047	7.000	
Na 1785 Peak Res	8.500	8.530	9.021	8.877	-0.1443	2.000	%
Temperature	15.50	25.35	34.71	27.31	-7.397	N/A	DEGC
Na Count Rate	45.00	27.13	26.60	26.04	-0.5612	8.000	CPS

## Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check

Master: 10-Dec-2010 8:35 Before: 25-Dec-2010 5:54 After: 20-Jan-2011 22:54

Na 511 Peak Loc	40.00	39.72	39.62	39.60	-0.02057	1.000	
Na 511 Peak Res	15.50	15.09	16.03	16.08	0.05057	2.000	%
High Voltage	1150	1099	1119	1105	-13.42	N/A	V
Na 1785 Peak Loc	142.6	142.5	141.3	141.3	0.03700	7.000	
Na 1785 Peak Res	8.500	8.852	9.212	9.090	-0.1219	2.000	%
Temperature	15.50	25.94	35.42	29.15	-6.274	N/A	DEGC
Na Count Rate	45.00	27.08	26.72	25.74	-0.9723	8.000	CPS

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

Master: 10-Dec-2010 8:35 Before: 25-Dec-2010 5:54 After: 20-Jan-2011 22:54

Coincidence Count Rate Ratio	1.000	1.001	0.9966	1.012	0.01544	0.05000	
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## Hostile Natural Gamma Ray Sonde Master Calibration – Detector 1 Calibration

Master: 10-Dec-2010 8:35

Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	210.6	--	--	--	--	
Th Peak Res	7.000	7.309	--	--	--	--	%
Background Count Rate	142.5	19.80	--	--	--	--	CPS
Gain Ratio	1.000	1.011	--	--	--	--	

## Hostile Natural Gamma Ray Sonde Master Calibration – Detector 2 Calibration

Master: 10-Dec-2010 8:35

Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	208.6	--	--	--	--	
Th Peak Res	7.000	6.652	--	--	--	--	%
Background Count Rate	142.5	20.42	--	--	--	--	CPS
Gain Ratio	1.000	0.9993	--	--	--	--	

## Accelerator-Porosity Tool – Detector Plateau Settings :

Near Detector Plateau Setting	1734 V
Far Detector Plateau Setting	2080 V
Array Detector Plateau Setting	1968 V

## Dual Induction – E / Equipment Identification

## Primary Equipment:

Dual Induction Sonde	DIS – HB	129
Dual Induction Cartridge	DIC – EB	171

## Auxiliary Equipment:

Mass Isolated Housing	MIH – ZA	342
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## General Purpose Inclinometer / Equipment Identification

## Primary Equipment:



GPIT Cartridge – AC	GPIC – AC	719
Auxiliary Equipment: GPIT Housing	GPIH – A	2864

Hostile Litho–Density Sonde / Equipment Identification		
Primary Equipment:		
Hostile Litho Density Sonde	HLDS – D	45
Hostile Litho Density High Voltage	HLDV – D	51
Gamma Source Radioactive	GSR – Z	2397
Auxiliary Equipment:		
Hostile Litho Density Pad	HLDP – C	61
Hostile Litho Density High Voltage Housi	HEH – H	53

Litho–Density Spectroscopy Cartridge – B / Equipment Identification		
Primary Equipment:		
LDSC Cartridge	LDSC – B	521
Auxiliary Equipment:		
LDSC Housing	LDSH – A	319

Accelerator–Porosity Tool / Equipment Identification		
Primary Equipment:		
Accelerator–Porosity Sonde	APS – C	22
APS Minitron	MNTR – F	5589
Auxiliary Equipment:		
Accelerator–Porosity Housing	APH – AC	22
APS Calibration Water Tank	SFT – 178	1
APS Aluminum Calibrator Sleeve	SFT – 281	1

Hostile Natural Gamma Ray Cartridge – B / Equipment Identification		
Primary Equipment:		
HNGC Cartridge	HNGC – B	300
Auxiliary Equipment:		
HNGC Housing	HNGH – A	115

Hostile Natural Gamma Ray Sonde / Equipment Identification		
Primary Equipment:		
HNGS Sonde	HNGS – BA	194
Auxiliary Equipment:		
HNGS Sonde Housing	HNSH – BA	205
Gamma Source Radioactive	GSR – U	616008

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		39.66	Master		14.96	Master		1187
Before		39.55	Before		16.05	Before		1209
After		39.70	After		14.90	After		1176
	37.50 (Minimum)    40.00 (Nominal)    43.50 (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		141.8	Master		8.530	Master		25.35
Before		142.2	Before		9.021	Before		34.71
After		142.3	After		8.877	After		27.31
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		27.13						
Before		26.60						
After		26.04						
10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)								
Master: 10-Dec-2010 8:35			Before: 25-Dec-2010 5:54			After: 20-Jan-2011 22:54		

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		39.72	Master		15.09	Master		1099
Before		39.62	Before		16.03	Before		1119
After		39.60	After		16.08	After		1105
37.50 (Minimum) 40.00 (Nominal) 43.50 (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		142.5	Master		8.852	Master		25.94
Before		141.3	Before		9.212	Before		35.42
After		141.3	After		9.090	After		29.15
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		27.08						
Before		26.72						
After		25.74						
10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)								
Master: 10-Dec-2010 8:35			Before: 25-Dec-2010 5:54			After: 20-Jan-2011 22:54		

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		1.001
Before		0.9966
After		1.012
0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)		
Master: 10-Dec-2010 8:35		
Before: 25-Dec-2010 5:54		
After: 20-Jan-2011 22:54		

Hostile Natural Gamma Ray Sonde Master Calibration								
Detector 1 Calibration								
Phase	Na 511 Peak Set Point	Value	Phase	Th Peak Loc	Value	Phase	Th Peak Res %	Value
Master		41.00	Master		210.6	Master		7.309
38.00 (Minimum) 40.00 (Nominal) 43.00 (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		19.80	Master		1.011			
10.00 (Minimum) 142.5 (Nominal) 265.0 (Maximum)			0.9400 (Minimum) 1.000 (Nominal) 1.060 (Maximum)					
Master: 10-Dec-2010 8:35								

Hostile Natural Gamma Ray Sonde Master Calibration								
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