

DISCLAIMER

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OTHER SERVICES1
 OS1: DITE
 OS2: HLDS
 OS3: HNGS
 OS4: FMS/DSI
 OS5:

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

REMARKS: RUN NUMBER 1
 Logging tools deployed inside drillpipe with wireline.
 BHA consisted of RCB Drilling Bit and collars with mechanical bit release.
 HLDS caliper calibration used 12 inch and 15.19" diameter rings as reference to improve large hole size accuracy.
 Depths referenced from drill floor which is 11m above sea level.
 DSI data recorded in SAM 2 and SAM4 modes standard frequency.
 Geoframe Best Delta T processing needed for best labeling.
 Dipole filter frequency at 1-2khz.

REMARKS: RUN NUMBER 2

RUN 1		
SERVICE ORDER #:		
PROGRAM VERSION:	17C0-154	
FLUID LEVEL:		
LOGGED INTERVAL	START	STOP




RUN 2		
SERVICE ORDER #:		
PROGRAM VERSION:		
FLUID LEVEL:		
LOGGED INTERVAL	START	STOP

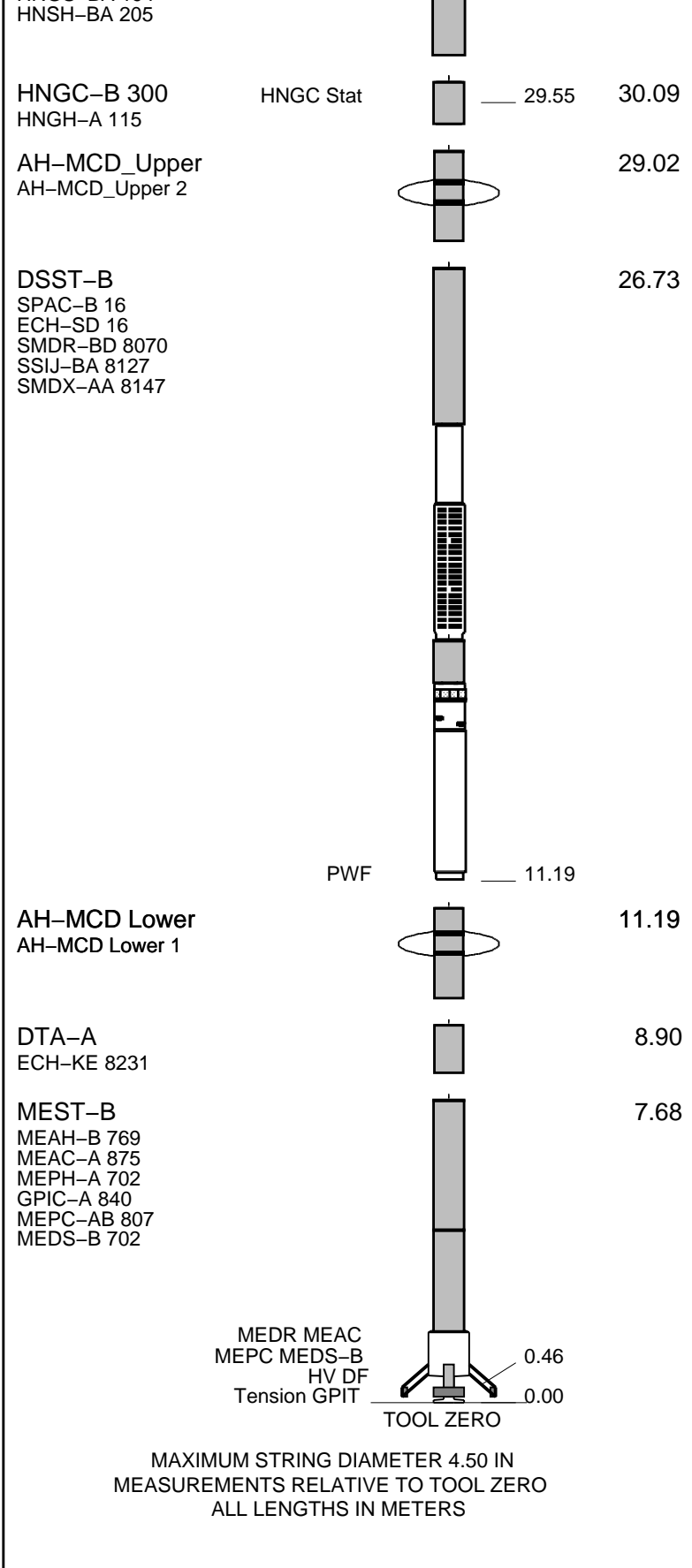
EQUIPMENT DESCRIPTION

RUN 1
 SURFACE EQUIPMENT
 GSR-U 616008
 WITM (DTS)-A

RUN 2

DOWNHOLE EQUIPMENT

LEH-QT			34.39
LEH-QT 301			
DTC-H	CTEM		33.22
ECH-mca 1777	TelStatus		32.59
	ToolStatu		
HNGS-BA 194	Upper_1		31.89
HNGS-BA 194	Lower_2		31.67



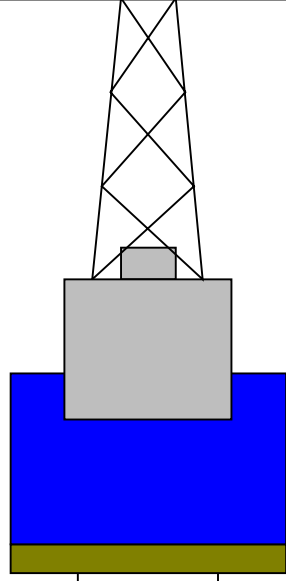
Production String	(in)	(M)	Well Schematic	(M)	(in)	Casing String
	OD	ID		MD	MD	

Kelly Bushing Elevation
Derrick Floor Elevation

Mean Sea Level

11.0
11.0

0.0



3275 4.20

Sea Floor



3275 9.875

3257 3.80

Borehole Segment

Open Hole

3599

Company: Lamont Doherty

Well: Expedition 324 Site U1348A

Output DLIS Files

DEFAULT	FMS_DSI_NGS_012LUP	FN:19	PRODUCER	06-Oct-2009 09:34	3595.9 M	3332.7 M
BACKUPDLISDATA	FMS_DSI_NGS_012LUP	FN:20	PRODUCER	06-Oct-2009 00:35	3595.9 M	3332.7 M

OP System Version: 17C0-154

MEST-B	SRPC-3870_Q3_2009_OP17_V3_b	DTA-A	17C0-154
DSST-B	17C0-154	HNGC-B	17C0-154
HNGS-BA	17C0-154	DTC-H	17C0-154

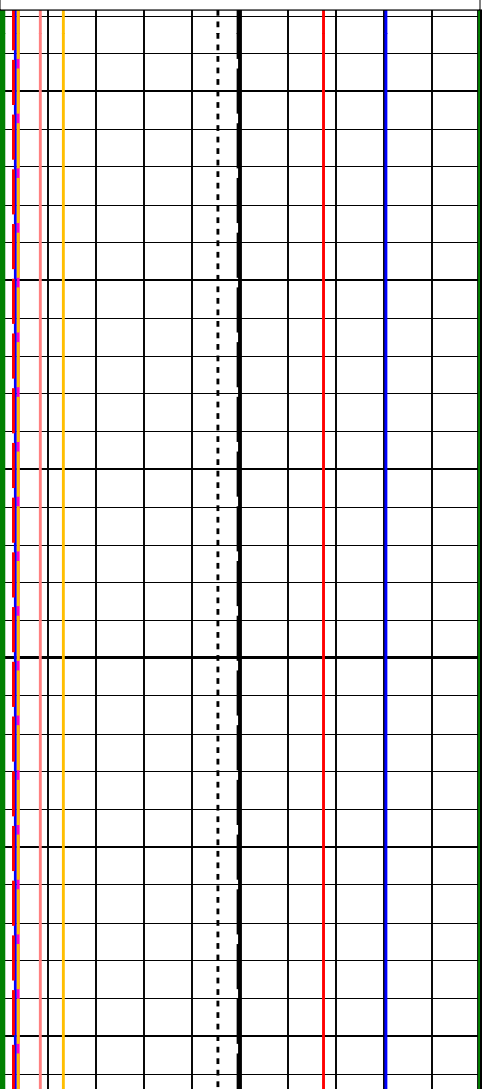
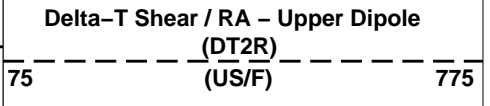
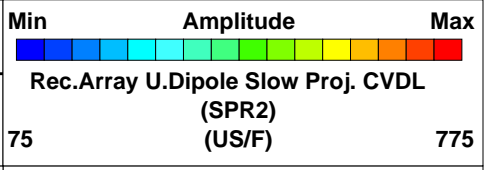
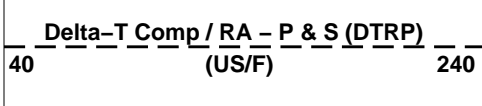
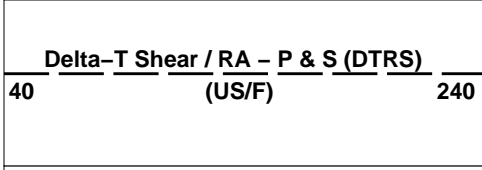
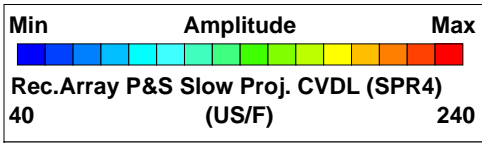
PIP SUMMARY

Time Mark Every 60 S

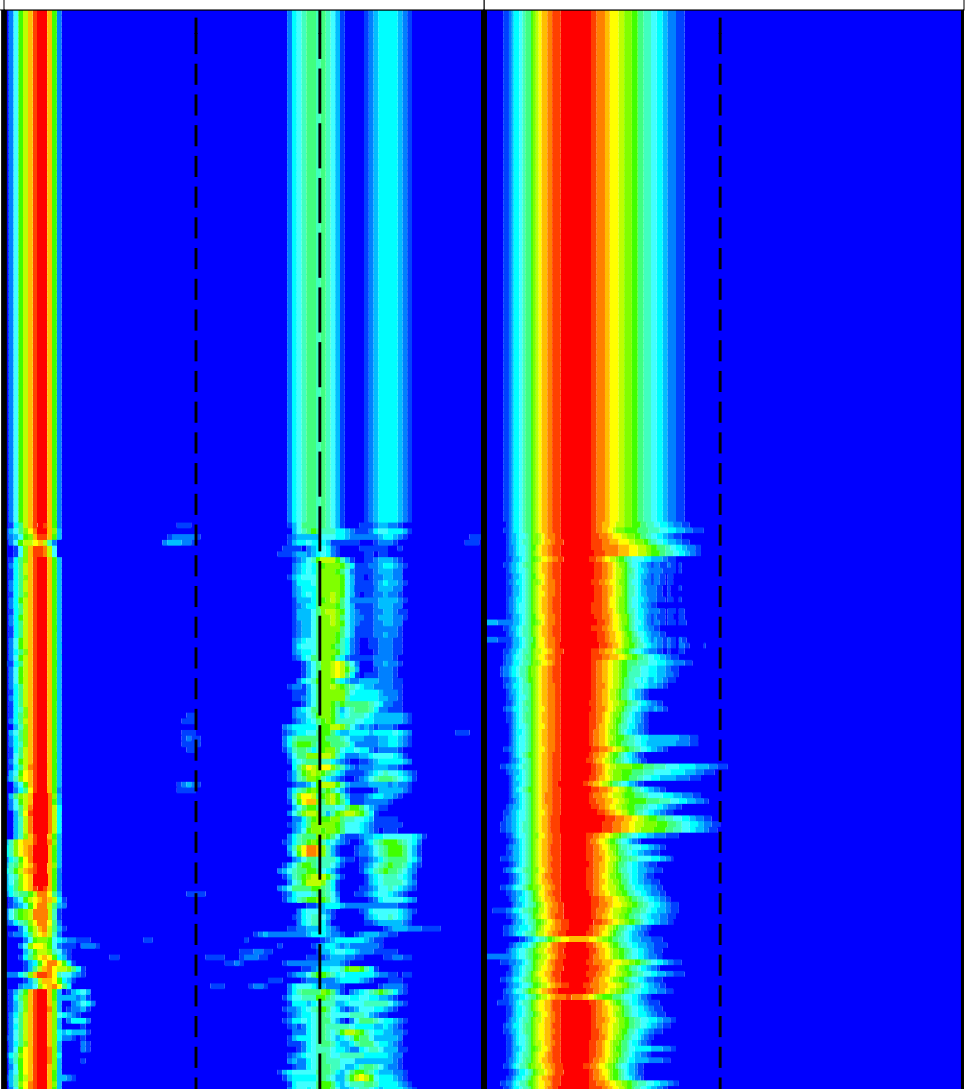
HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	100
Waveform Data Copy Indicator 4 - Monopole P&S (WCI4)		
0	(----)	10
Peak Coherence / RA - P & S Shear (CHRS)		
-1	(----)	9
Peak Coherence / RA - P & S Comp (CHRP)		

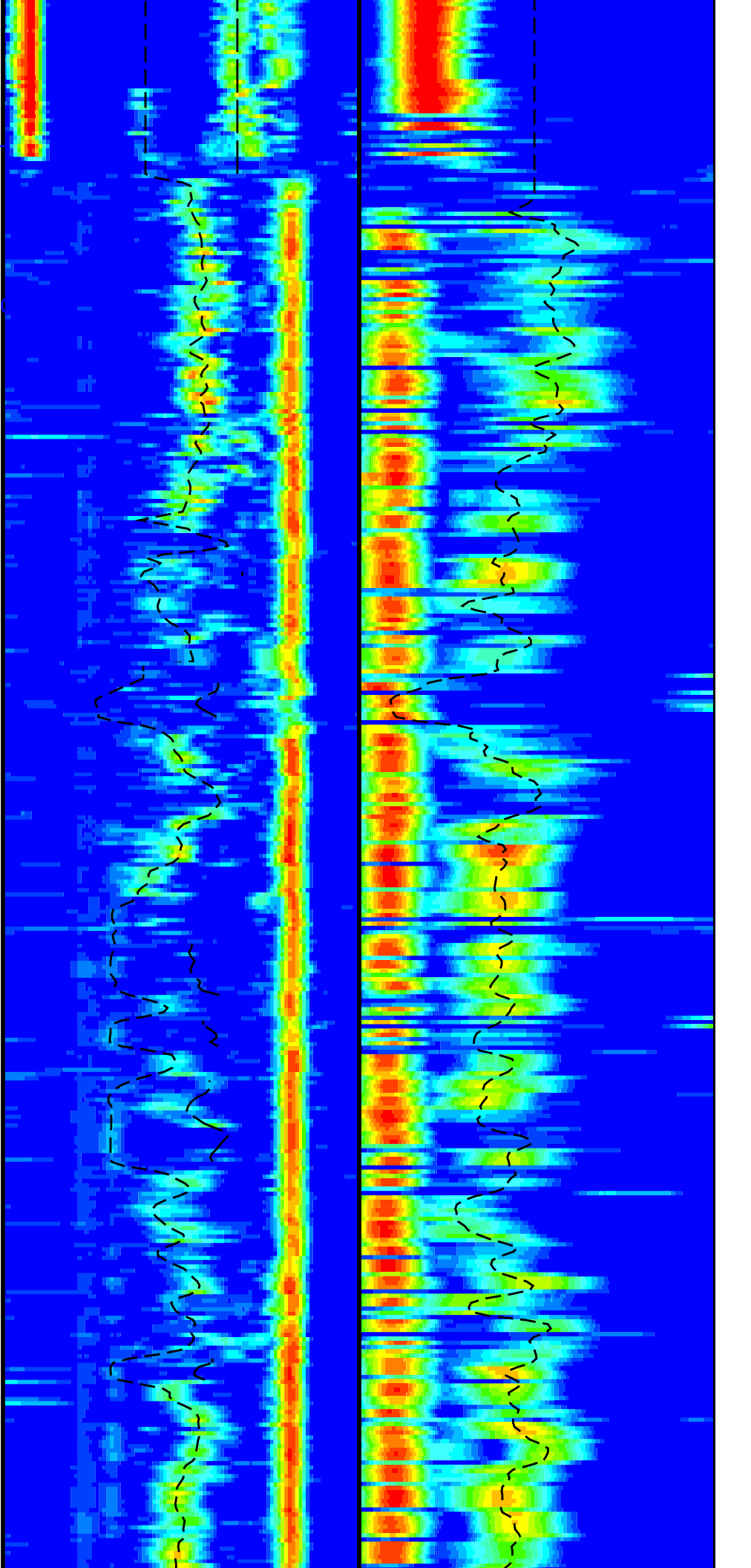
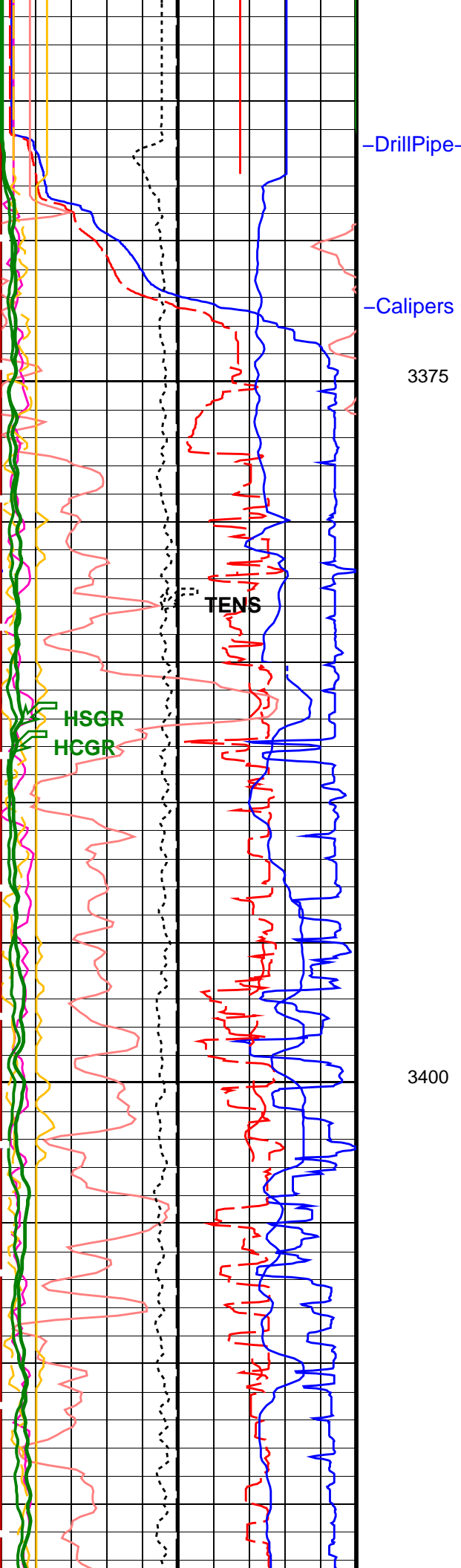
	(----)	10
Peak Coherence / RA – Upper Dipole (CHR2)		
0	(----)	10
HNGS Computed Gamma Ray (HCGR)		
0	(GAPI)	100
Tension (TENS)		
10000	(LBF)	0
Delta-T Shear – P & S (DT4S)		
440	(US/F)	40
Delta-T Comp – P & S (DT4P)		
440	(US/F)	40
Delta-T Shear – Upper Dipole (DT2)		
440	(US/F)	40
Caliper 1 (C1)		
0	(IN)	20
Caliper 2 (C2)		
0	(IN)	16
Bit Size (BS)		
0	(IN)	20

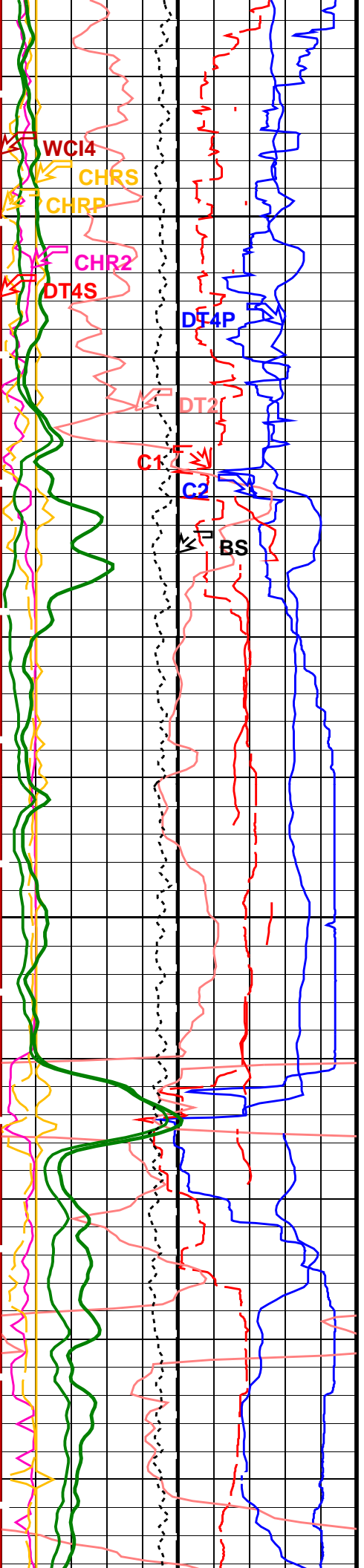
Main Uplog 1



3350

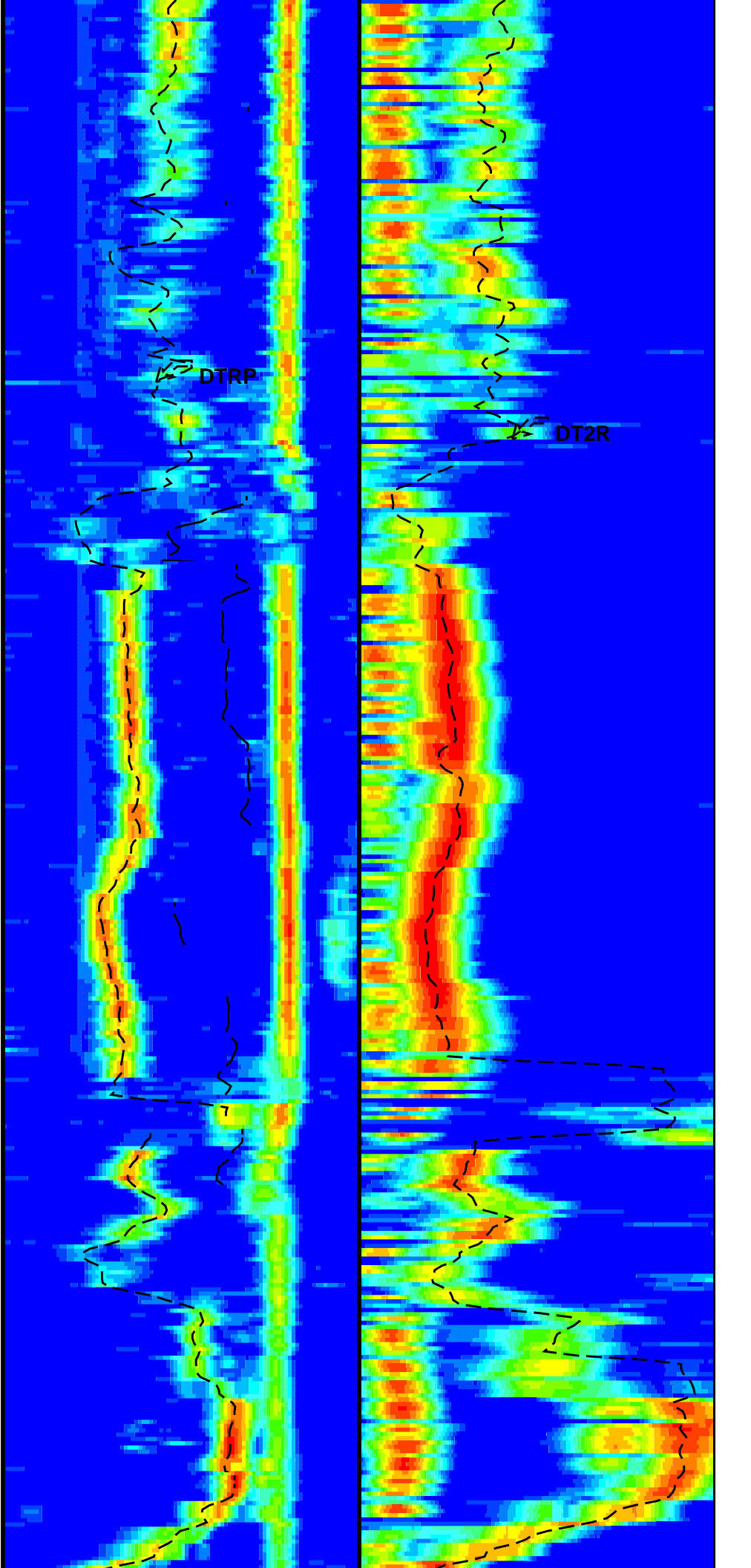






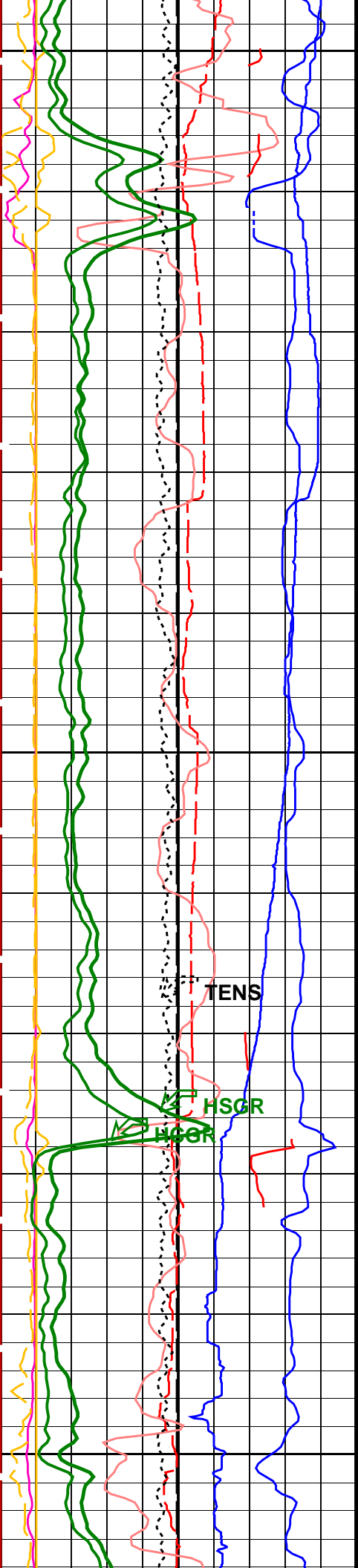
3425

3450



DTRP

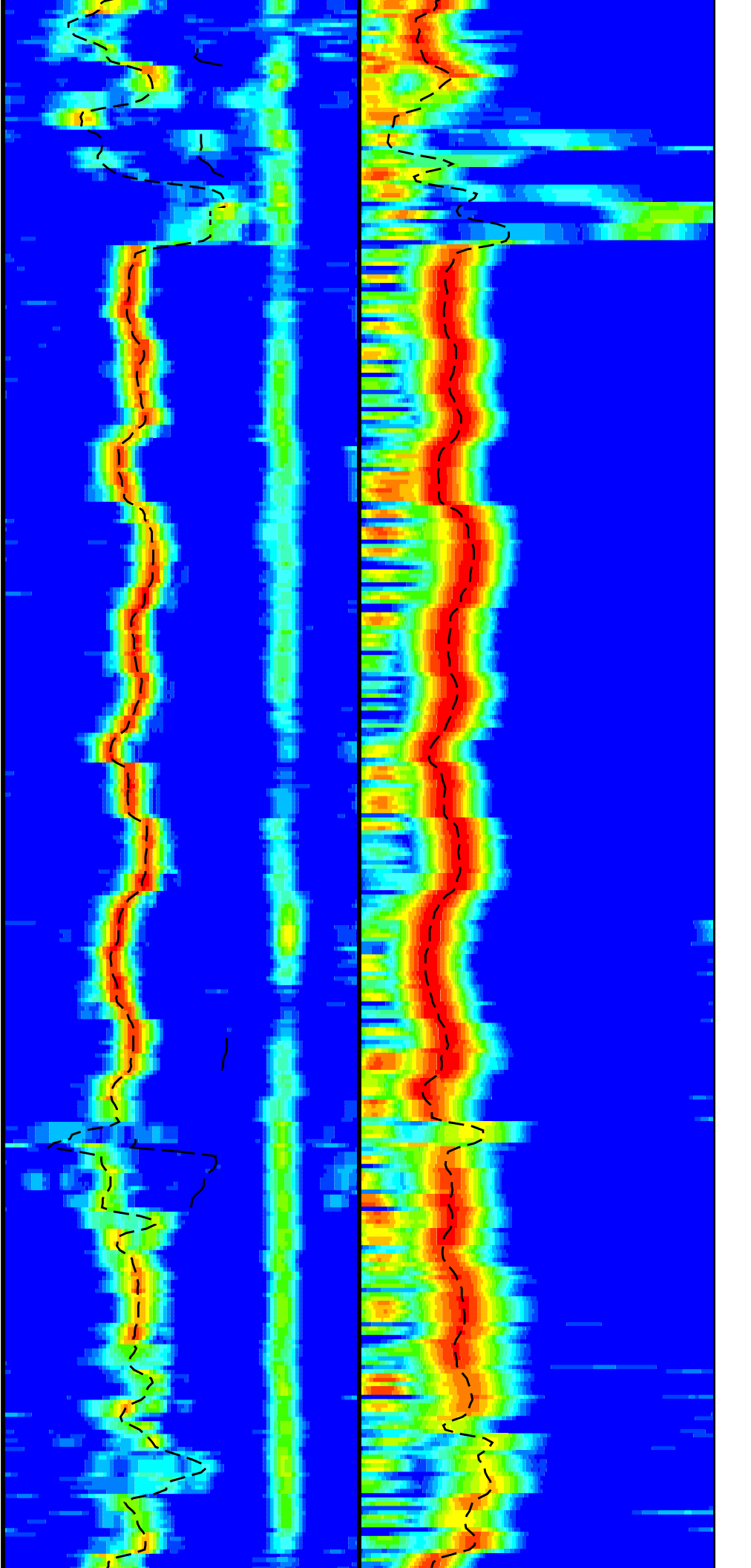
DT2R

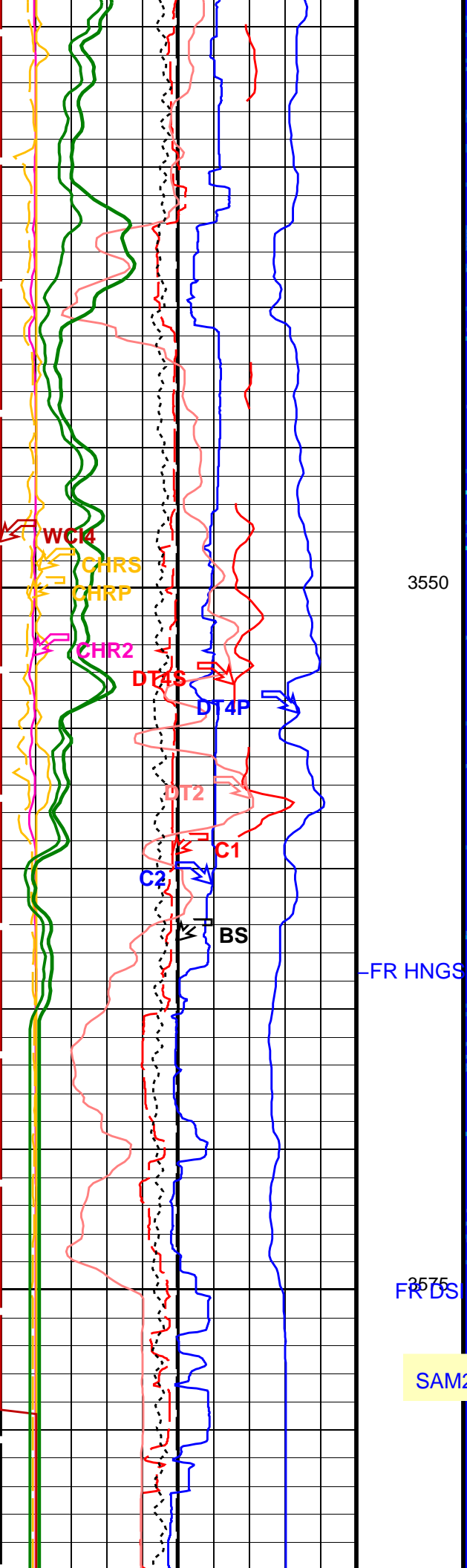


3475

3500

3525

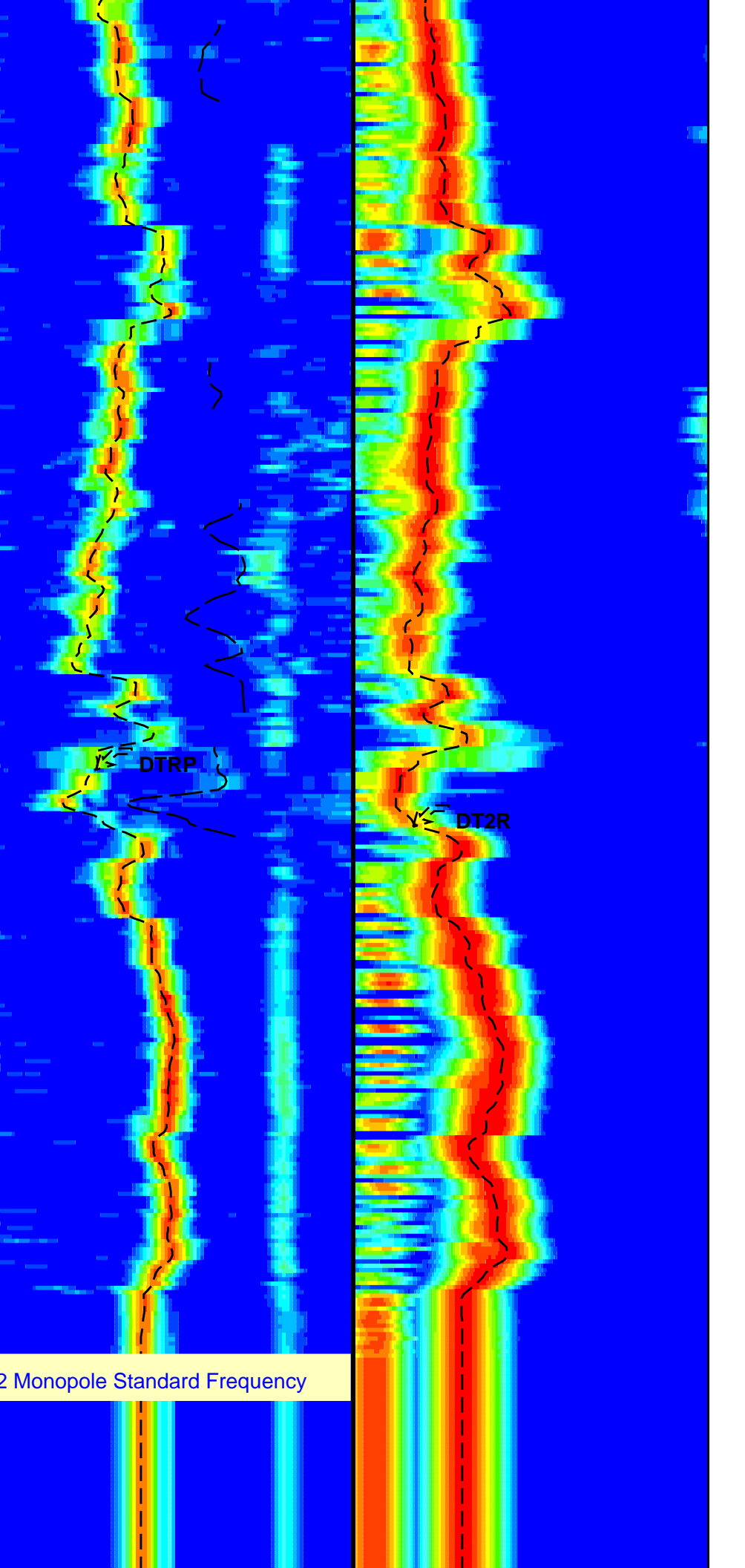


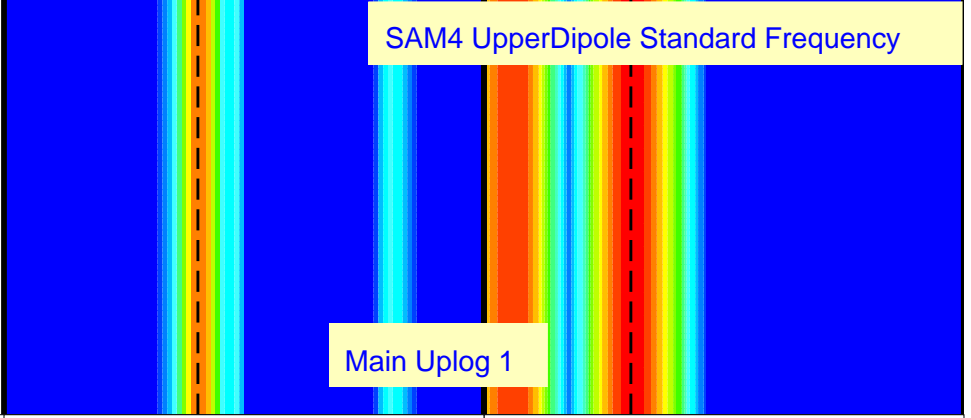
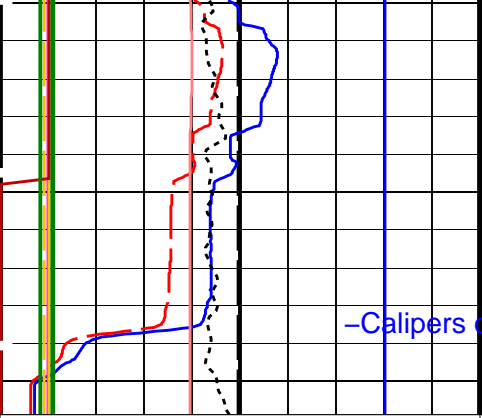


3550

FR DS

SAM2 Monopole Standard Frequency





0	Bit Size (BS) (IN)	20
0	Caliper 2 (C2) (IN)	16
0	Caliper 1 (C1) (IN)	20
440	Delta-T Shear - Upper Dipole (DT2) (US/F)	40
440	Delta-T Comp - P & S (DT4P) (US/F)	40
440	Delta-T Shear - P & S (DT4S) (US/F)	40
10000	Tension (TENS) (LBF)	0
0	HNGS Computed Gamma Ray (HCGR) (GAPI)	100
0	Peak Coherence / RA - Upper Dipole (CHR2) (----)	10
0	Peak Coherence / RA - P & S Comp (CHRP) (----)	10
-1	Peak Coherence / RA - P & S Shear (CHRS) (----)	9
0	Waveform Data Copy Indicator 4 - Monopole P&S (WC14) (----)	10
0	HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)	100

40	Delta-T Comp / RA - P & S (DTRP) (US/F)	240	75	Delta-T Shear / RA - Upper Dipole (DT2R) (US/F)	775
40	Delta-T Shear / RA - P & S (DTRS) (US/F)	240	Min Amplitude Max Rec.Array U.Dipole Slow Proj. CVDL (SPR2) (US/F) 775		
40	Rec.Array P&S Slow Proj. CVDL (SPR4) (US/F)	240	Min Amplitude Max Rec.Array P&S Slow Proj. CVDL (SPR4) (US/F) 775		

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
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DSST-R: Dipole Shear Imager - R

BHS	Borehole Status	OPEN	
CASF	Label Casing Function – Monopole P&S	50	
COLL	Label Slowness Lower Limit – Monopole P&S Compressional	40	US/F
COUL	Label Slowness Upper Limit – Monopole P&S Compressional	180	US/F
DDE2	Digitizing Delay 2	0	US
DDE4	Digitizing Delay 4	0	US
DDEX	Digitizing Delay X	0	US
DLCS	Label Compressional Source – Dipole Shear	USE	
DSHL	Label Slowness Lower Limit – Dipole Shear	75	US/F
DSHU	Label Slowness Upper Limit – Dipole Shear	775	US/F
DSI2	Digitizer Sample Interval 2	40	US
DSI4	Digitizer Sample Interval 4	10	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta-T Source for DTCO Channel	PS_COMP	
DTF	Delta-T Fluid	204.5	US/F
DWC2	Digitizer Word Count 2	512	
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control – Monopole P&S	COMP_SHEAR	
GCSE	Generalized Caliper Selection	BS	
LFC	Label Formation Character – Monopole P&S	DYNAMIC	
MCS	Mean Casing Slowness	57	US/F
MTXG	Monopole Transmitter Geometry	186	IN
NWI2	Number Waveform Items 2	8	
NWI4	Number Waveform Items 4	8	
NWIX	Number Waveform Items X	0	
RSMN	Label Shear/Compressional Minimum Ratio – Monopole P&S	1.4	
RSMX	Label Shear/Compressional Maximum Ratio – Monopole P&S	2.12	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM2	DSST Sonic Acquisition Mode 2 – Upper Dipole Mode	ODD	
SAM4	DSST Sonic Acquisition Mode 4 – High Frequency Monopole Mode for P&S	EVEN	
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF	
SAS2	STC Sonic Array Status – Upper Dipole	255	
SAS4	STC Sonic Array Status – Monopole P&S	255	
SBO2	STC Search Band Offset – Upper Dipole	3000	US
SBO4	STC Search Band Offset – Monopole P&S	500	US
SBR4	STC Baseline Removal – Monopole P&S	ON	
SBW2	STC Search Bandwidth – Upper Dipole	8000	US
SBW4	STC Search Bandwidth – Monopole P&S	2000	US
SFC2	STC Formation Character – Upper Dipole	SELECTABLE	
SFC4	STC Formation Character – Monopole P&S	SELECTABLE	
SFM2	STC Filter – Upper Dipole	B1-2K	
SFM4	STC Filter – Monopole P&S	B3-20K	
SHLL	Label Slowness Lower Limit – Monopole P&S Shear	75	US/F
SHUL	Label Slowness Upper Limit – Monopole P&S Shear	180	US/F
SLL2	STC Slowness Lower Limit – Upper Dipole	75	US/F
SLL4	STC Slowness Lower Limit – Monopole P&S	40	US/F
SST2	STC Slowness Step – Upper Dipole	4	US/F
SST4	STC Slowness Step – Monopole P&S	2	US/F
SSW2	STC Source Waveform – Upper Dipole	WF_SAM2	
SSW4	STC Source Waveform – Monopole P&S	WF_SAM4	
STLL	Label Slowness Lower Limit – Monopole Stoneley	180	US/F
STUL	Label Slowness Upper Limit – Monopole Stoneley	780	US/F
SUL2	STC Slowness Upper Limit – Upper Dipole	1000	US/F
SUL4	STC Slowness Upper Limit – Monopole P&S	240	US/F
SWD2	STC Slowness Width – Upper Dipole	40	US/F
SWD4	STC Slowness Width – Monopole P&S	10	US/F
TBF2	STC Time for Baseline Fill – Upper Dipole	0	US
TBF4	STC Time for Baseline Fill – Monopole P&S	300	US
TLL2	STC Time Lower Limit – Upper Dipole	600	US
TLL4	STC Time Lower Limit – Monopole P&S	150	US
TST2	STC Time Step – Upper Dipole	200	US
TST4	STC Time Step – Monopole P&S	50	US
TUL2	STC Time Upper Limit – Upper Dipole	18000	US
TUL4	STC Time Upper Limit – Monopole P&S	3660	US
TWD2	STC Time Width – Upper Dipole	2000	US
TWD4	STC Time Width – Monopole P&S	1000	US
TWI2	STC Integration Time Window – Upper Dipole	1600	US
TWI4	STC Integration Time Window – Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
UTXG	Upper Dipole Transmitter Geometry	162	IN
WFM4	Waveform Mode 4	W1	
BAR1	HNGS-BA: Hostile Natural Gamma Ray Sonde 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	-0.00285519	
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	1.62852	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.09746	
System and Miscellaneous			
BS	Bit Size	9.875	IN

Format: DSST_P_S_UPPER_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 06-Oct-2009 09:34

OP System Version: 17C0-154

MEST-B	SRPC-3870_Q3_2009_OP17_V3_b	DTA-A	17C0-154
DSST-B	17C0-154	HNGC-B	17C0-154
HNGS-BA	17C0-154	DTC-H	17C0-154

Output DLIS Files

DEFAULT	FMS_DSI_NGS_012LUP	FN:19	PRODUCER	06-Oct-2009 09:34
BACKUPDLISDATA	FMS_DSI_NGS_012LUP	FN:20	PRODUCER	06-Oct-2009 00:35

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Micro Electrical Scanner - B (Slim) Wellsite Calibration - Caliper Calibration							
Before: Calibration out of date 15-Sep-2009 22:04							
Caliper 1 Zero Measurement	12.00	N/A	12.56	N/A	N/A	N/A	IN
Caliper 2 Zero Measurement	12.00	N/A	12.39	N/A	N/A	N/A	IN
Caliper 1 Plus Measurement	15.19	N/A	15.42	N/A	N/A	N/A	IN
Caliper 2 Plus Measurement	15.19	N/A	15.30	N/A	N/A	N/A	IN
Micro Electrical Scanner - B (Slim) Wellsite Calibration - CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY							
Before: 6-Oct-2009 6:27							
TEMPERATURE REFERENCE :	N/A	N/A	20	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	3	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	743	N/A	N/A	N/A	
Micro Electrical Scanner - B (Slim) Wellsite Calibration - CROUZET MAGNETOMETER PROM HAS BEEN READ CORRECTLY							
Before: 6-Oct-2009 6:27							
TEMPERATURE REFERENCE :	N/A	N/A	23	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	3	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	9	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	507	N/A	N/A	N/A	
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 1 Check							
Master: 5-Sep-2009 7:01 Before: 13-Sep-2009 22:15 After: 6-Oct-2009 5:15							
Na 511 Peak Loc	40.00	39.55	39.60	39.55	-0.04499	1.000	
Na 511 Peak Res	15.50	15.65	16.19	16.19	-0.001600	2.000	%
High Voltage	1150	1146	1180	1180	-0.04395	N/A	V
Na 1785 Peak Loc	142.6	142.8	142.7	141.7	-1.018	7.000	
Na 1785 Peak Res	8.500	7.849	8.372	8.356	-0.01615	2.000	%
Temperature	15.50	14.91	32.53	30.76	-1.774	N/A	DEGC
Na Count Rate	45.00	36.92	35.51	35.28	-0.2280	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 2 Check
Master: 5-Sep-2009 7:01 Before: 13-Sep-2009 22:15 After: 6-Oct-2009 5:15

Na 511 Peak Loc	40.00	39.62	39.55	39.54	0.007182	1.000	
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Na 511 Peak Loc	40.00	39.62	39.55	39.34	-0.007183	1.000	%
Na 511 Peak Res	15.50	15.06	16.55	16.18	-0.3718	2.000	V
High Voltage	1150	1080	1113	1113	-0.2059	N/A	V
Na 1785 Peak Loc	142.6	141.3	142.3	141.9	-0.4169	7.000	
Na 1785 Peak Res	8.500	8.437	9.484	8.502	-0.9824	2.000	%
Temperature	15.50	15.08	32.86	32.67	-0.1886	N/A	DEGC
Na Count Rate	45.00	36.97	36.00	35.45	-0.5474	8.000	CPS

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

Master: 5-Sep-2009 7:01 Before: 13-Sep-2009 22:15 After: 6-Oct-2009 5:15

Coincidence Count Rate Ratio	1.000	0.9992	0.9853	0.9952	0.009893	0.05000
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Hostile Natural Gamma Ray Sonde Master Calibration – Detector 1 Calibration

Master: 5-Sep-2009 7:01

Na 511 Peak Set Point	40.00	41.00	---	---	---	---	
Th Peak Loc	209.6	210.4	---	---	---	---	
Th Peak Res	7.000	6.417	---	---	---	---	%
Background Count Rate	142.5	18.75	---	---	---	---	CPS
Gain Ratio	1.000	1.012	---	---	---	---	

Hostile Natural Gamma Ray Sonde Master Calibration – Detector 2 Calibration

Master: 5-Sep-2009 7:01

Na 511 Peak Set Point	40.00	41.00	---	---	---	---	
Th Peak Loc	209.6	209.5	---	---	---	---	
Th Peak Res	7.000	7.001	---	---	---	---	%
Background Count Rate	142.5	18.87	---	---	---	---	CPS
Gain Ratio	1.000	1.006	---	---	---	---	

Micro Electrical Scanner – B (Slim) / Equipment Identification

Primary Equipment:

MEST Sonde – B	MEDS – B	702
MEST Preamplifier Cartridge – AB	MEPC – AB	807
GPIT Cartridge – A	GPIC – A	840
MEST Acquisition Cartridge – A	MEAC – A	875

Auxiliary Equipment:

MEST-B Preamplifier Cartridge Housing	MEPH – A	702
MEST Acquisition Cartridge Housing (Slim)	MEAH – B	769

Hostile Natural Gamma Ray Cartridge – B / Equipment Identification

Primary Equipment:

HNGC Cartridge	HNGC – B	300
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Auxiliary Equipment:

HNGC Housing	HNGH – A	115
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Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:

HNGS Sonde	HNGS – BA	194
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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		39.55	Master		15.65	Master		1146	
Before		39.60	Before		16.19	Before		1180	
After		39.55	After		16.19	After		1180	
	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		142.8	Master		7.849	Master		14.91

Before		142.7	Before		8.372	Before		32.53
After		141.7	After		8.356	After		30.76
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		36.92						
Before		35.51						
After		35.28						
10.00 (Minimum)		45.00 (Nominal)	100.0 (Maximum)					
Master: 5-Sep-2009 7:01			Before: 13-Sep-2009 22:15			After: 6-Oct-2009 5:15		

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		39.62		Master		15.06		Master		1080		
Before		39.55		Before		16.55		Before		1113		
After		39.54		After		16.18		After		1113		
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		141.3		Master		8.437		Master		15.08		
Before		142.3		Before		9.484		Before		32.86		
After		141.9		After		8.502		After		32.67		
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		36.97										
Before		36.00										
After		35.45										
10.00 (Minimum)		45.00 (Nominal)	100.0 (Maximum)									
Master: 5-Sep-2009 7:01			Before: 13-Sep-2009 22:15			After: 6-Oct-2009 5:15						

Hostile Natural Gamma Ray Sonde Wellsite Calibration			
Ratio Of Detector 1 To Detector 2			
Phase	Coincidence Count Rate Ratio		Value
Master		0.9992	
Before		0.9853	
After		0.9952	
0.9500 (Minimum)		1.000 (Nominal)	1.050 (Maximum)
Master: 5-Sep-2009 7:01			
Before: 13-Sep-2009 22:15			
After: 6-Oct-2009 5:15			

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		210.4		Master		6.417		
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		18.75		Master		1.012						
10.00 (Minimum)		142.5 (Nominal)	265.0 (Maximum)	0.9400 (Minimum)		1.000 (Nominal)	1.060 (Maximum)					
Master: 5-Sep-2009 7:01												

Hostile Natural Gamma Ray Sonde Master Calibration									
Detector 2 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		209.5	Master		7.001	
	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		18.87	Master		1.006				
	10.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)	0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)			

Master: 5-Sep-2009 7:01

DTS Telemetry Tool / Equipment Identification

Primary Equipment:		
DTC-H Auxiliary Cartridge	DTCH - A	8798
DTC-H Telemetry Cartridge	DTCH - A	8798
Auxiliary Equipment:		
DTCH Telemetry Cartridge Housing	ECH - mca	1777

Company: **Lamont Doherty**



Well: **Expedition 324 Site U1348A**

Field: **Shatsky Rise**

Rig: **JOIDES Resolution**

Ocean: **Pacific**

Dipole Shear Sonic Imager (DSI)
 Gamma Ray
 Spectroscopy (HNGS)