



Company: **International Ocean Discovery Program**

Well: **Expedition 356, Site U1461 D**

Field: **Indonesian Throughflow**

Rig: **JOIDES Resolution** Ocean: **Indian**

Rig: JOIDES Resolution	Field: Indonesian Throughflow	Location: Latitude: S 20.213875 Deg	Well: Expedition 356, Site U1461 D	Company: International Ocean Discovery Program	Formation Micro Scanner (FMS)				
					Dipole Shear Sonic P&S (DSI)				
					Hostile Natural Gamma Ray (HNGS)				
					Latitude: S 20.213875 Deg		Elev.: K.B. -138.30 m		
					Longitude: E 115.0656483 Deg		G.L. 0.00 m		
					Permanent Datum: Sea Floor		Elev.: 0.00 m		
					Log Measured From: Sea Floor		0.00 m above Perm. Datum		
					Drilling Measured From: Sea Floor				
API Serial No.		Max. Hole Devi. 0 deg		Longitude E 113.5778		Latitude S 28.6641			

Logging Date		11-Aug-2015							
Run Number		1							
Depth Driller		1095 m							
Schlumberger Depth		1029 m							
Bottom Log Interval		1029 m							
Top Log Interval		0 m							
Casing Driller Size @ Depth		5.500 in @ 216 m							
Casing Schlumberger		213 m							
Bit Size		9.875 in							
Type Fluid In Hole		Sepiolite with Barite							
MUD	Density	Viscosity		1.318 g/cm3					
	Fluid Loss	PH		8.07					
	Source Of Sample		Mudpit						
RM @ Measured Temperature		0.220 ohm.m @ 23 degC							
RMF @ Measured Temperature		@ @							
RMC @ Measured Temperature		@ @							
Source RMF	RMC		N/A		N/A				
RM @ MRT	RMF @ MRT		0.147 @ 45		@ 45		@		
Maximum Recorded Temperatures		45 degC							
Circulation Stopped		Time		29-Aug-2015 10:30					
Logger On Bottom		Time		29-Aug-2015 06:15					
Unit Number	Location			627314 Houma, LA					
Recorded By		K. Swain							
Witnessed By		M. Gurnis, Z. Mateo, E. Garrett							

	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									
MUD	Density	Viscosity							
	Fluid Loss	PH							
	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							
Logger On Bottom		Time							
Unit Number	Location								
Recorded By									
Witnessed By									

DISCLAIMER
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OTHER SERVICES1
 OS1: HRLA/HLDS/APS/HNGS
 OS2:
 OS3:
 OS4:
 OS5:

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

REMARKS: RUN NUMBER 1
 Hole drilled with RCB coring bit and bottom hole assembly (BHA). 9 7/8" BS
 Drill pipe set at 79 mbsf for wireline logging.
 Downlog run with corrections computed using bit size; uplogs corrected for actual hole size using caliper.
 Callapsed hole above logging tools caused significant pull at surface for most of open hole interval.
 Fluid type was sepiolite+barite at 11 lbs/gal. Corrections for this applied.
 Depth originally recorded from drill floor; played back with sea floor as reference zero.
 All logs presented in measured depth below sea floor (MDBSF).
 Maximum observed temperature on the MSS temperature was 45 degC.

REMARKS: RUN NUMBER 2

RUN 1		
SERVICE ORDER #:		
PROGRAM VERSION:	19C0-187	
FLUID LEVEL:		
LOGGED INTERVAL	START	STOP

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

EQUIPMENT DESCRIPTION




RUN 1

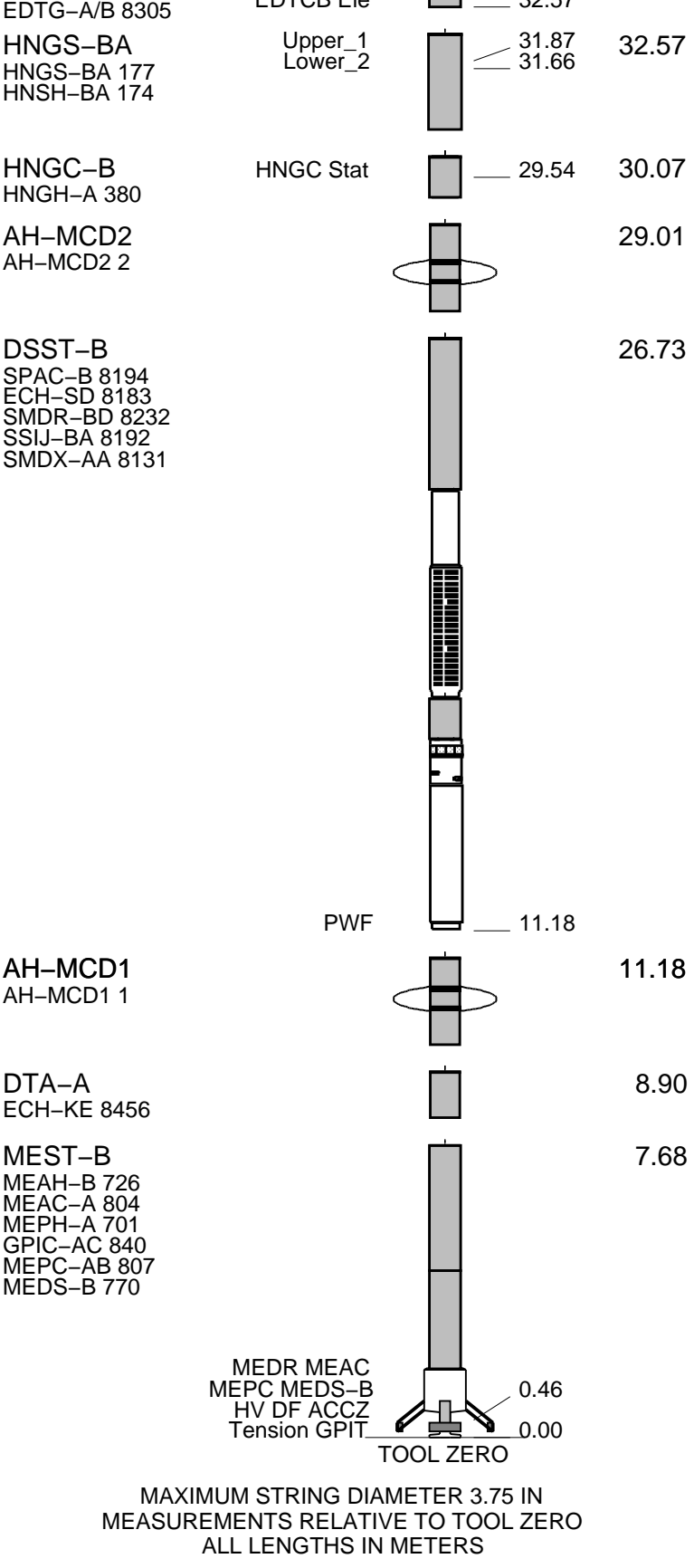
SURFACE EQUIPMENT

GSR-U 616008
 WITM (EDTS)-A 1

RUN 2

DOWNHOLE EQUIPMENT

LEH-QT				35.88
LEH-QT 301	MDSB_EDTC			
	Mud Tempe		34.55	34.99
	CTEM		33.49	
	Gamma Ray		32.92	34.55
EDTC-B	EFTB DIAG			
EDTH-B 8303	TelStatus			
EDTC-B 8317	EDTCB File		32.57	



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

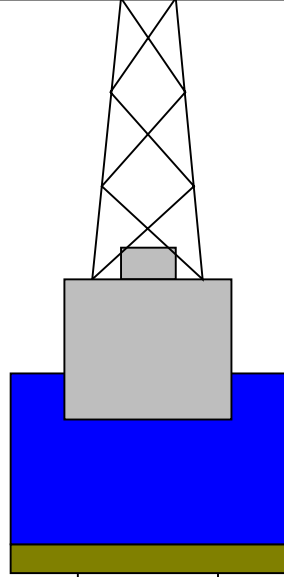
Kelly Bushing Elevation
Derrick Floor Elevation

Mean Sea Level

-138.3

-138.3

-127.3



4.1



0

79

1095

4.1

9.875

Sea Floor

Open Hole

Total Depth

Input DLIS Files

DEFAULT	FMS_DSI_NGS_027PUP	FN:38	PRODUCER	30-Aug-2015 14:40	331.5 M	114.8 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_037PUP	FN:47	PRODUCER	03-Sep-2015 12:16	189.7 M	-27.3 M
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OP System Version: 19C0-187

MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)

0 (GAPI) 100





HNGS Computed Gamma Ray (HCGR)

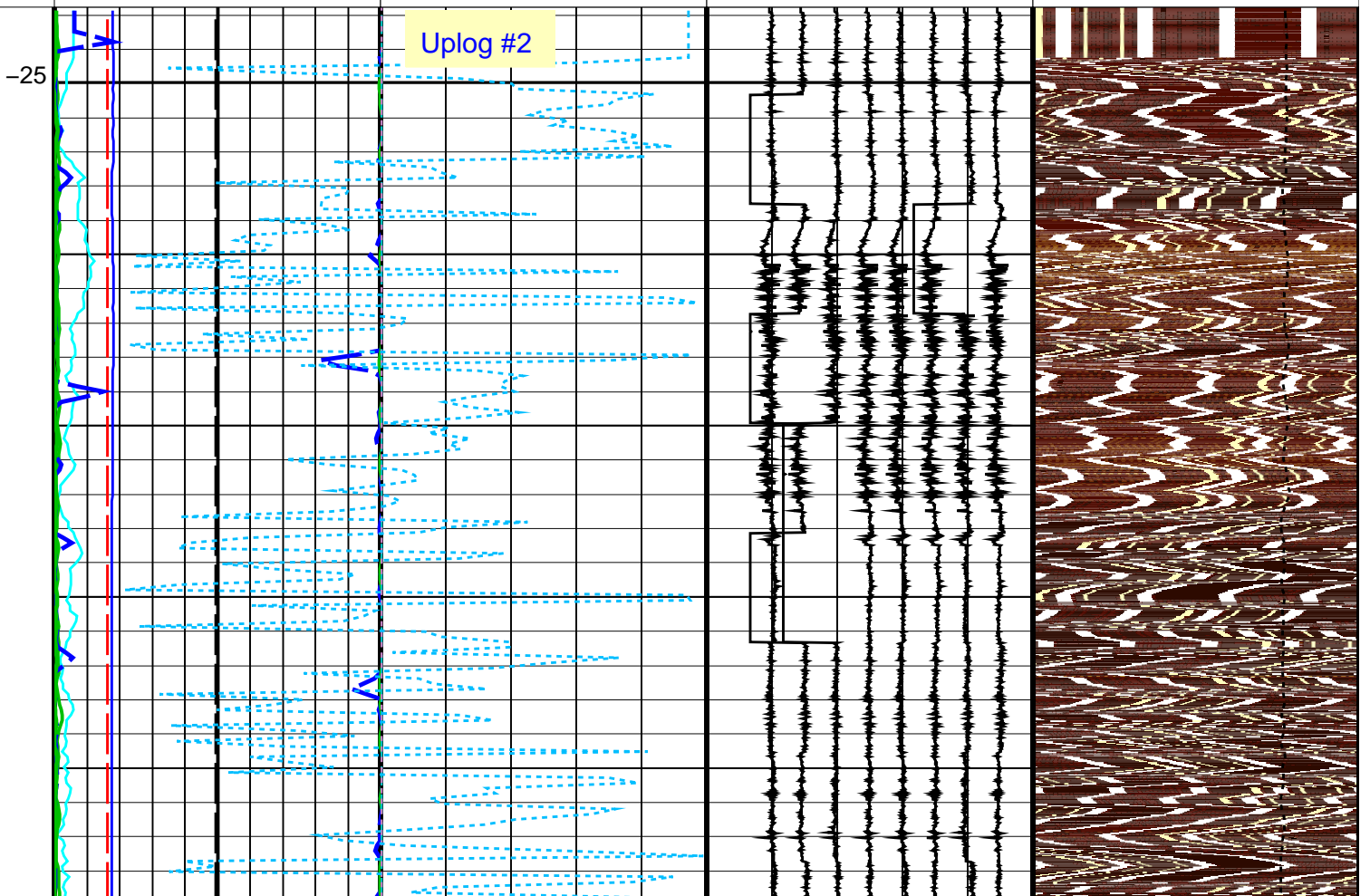
0 (GAPI) 100

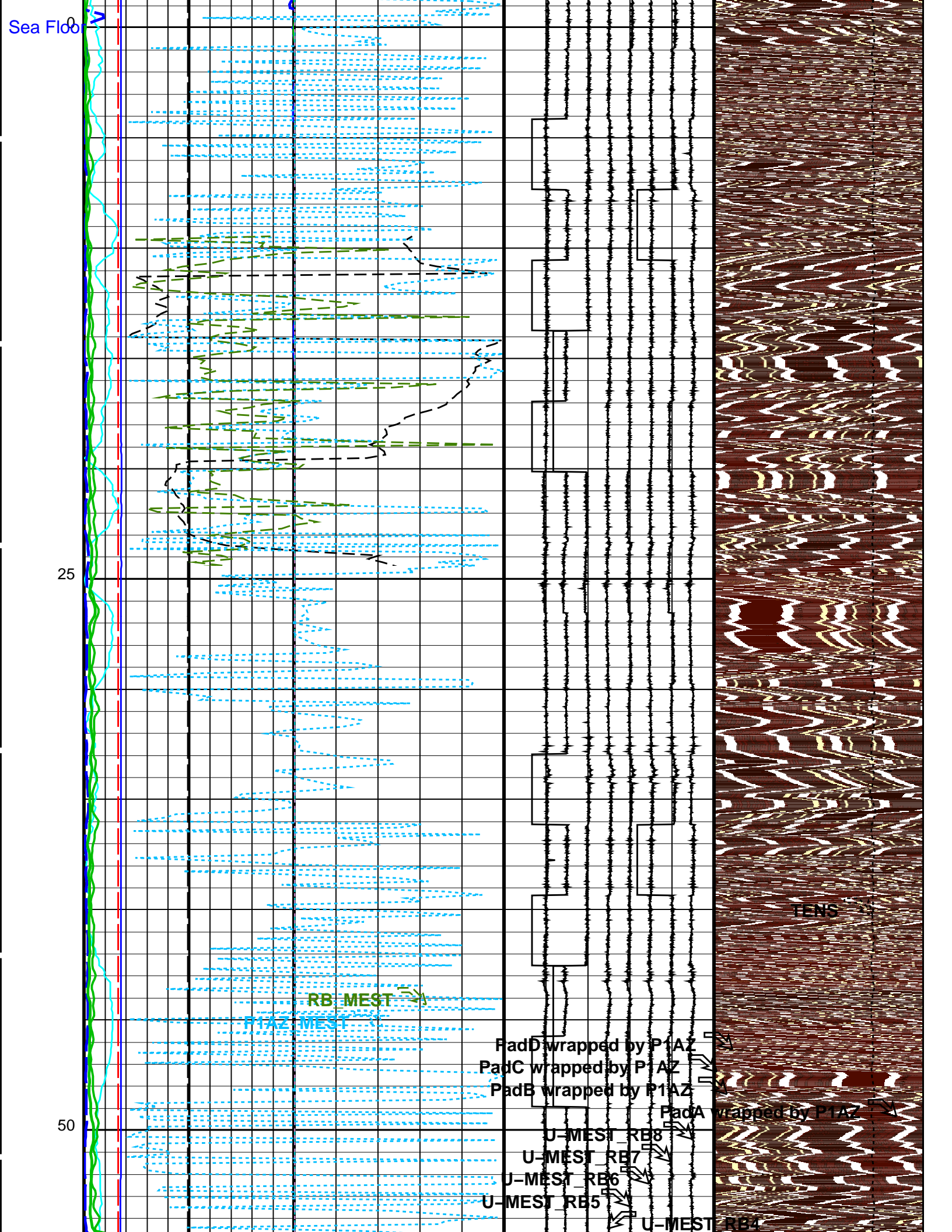
Gamma Ray (GR_EDTC)

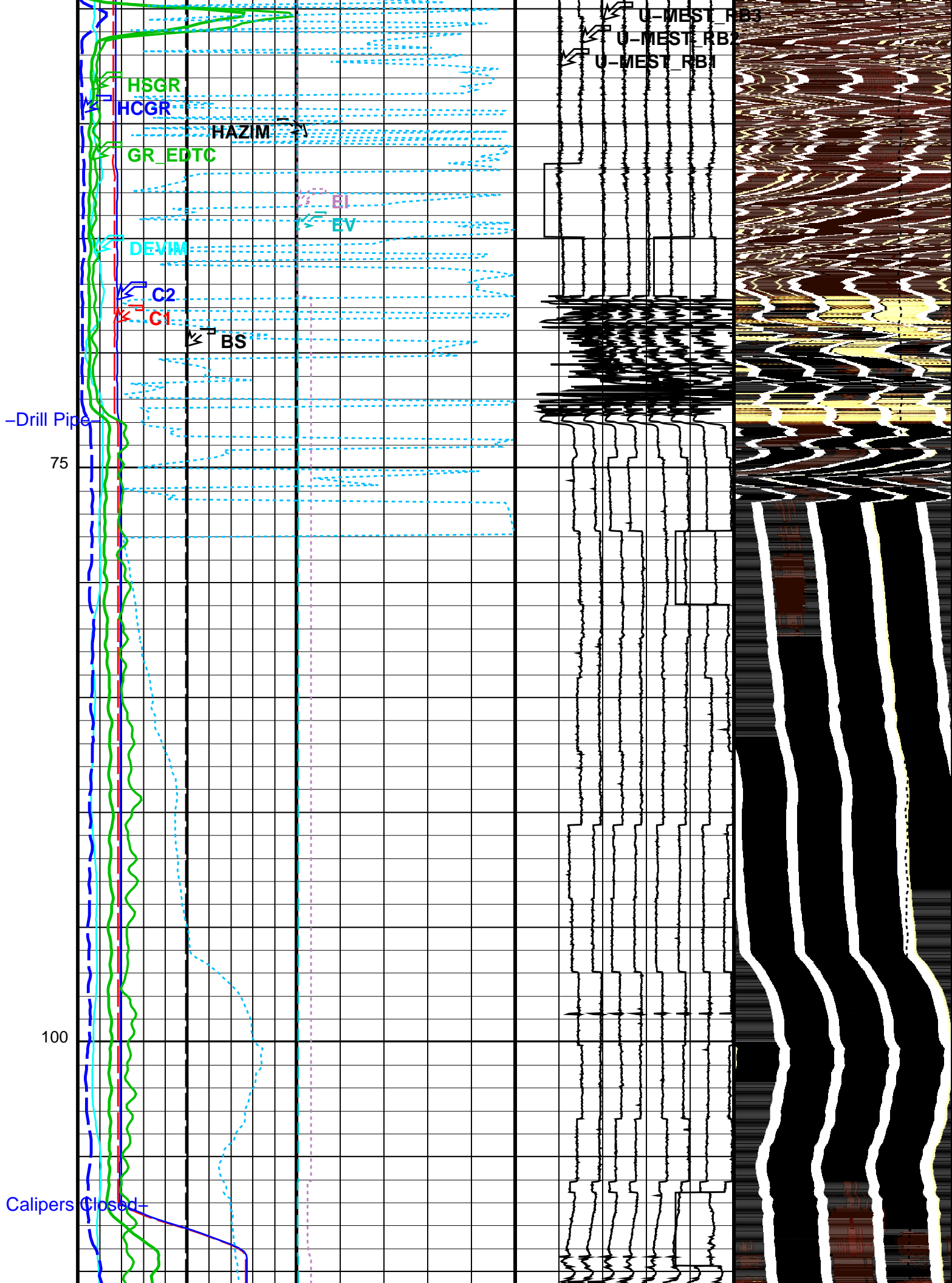
0 (GAPI) 100

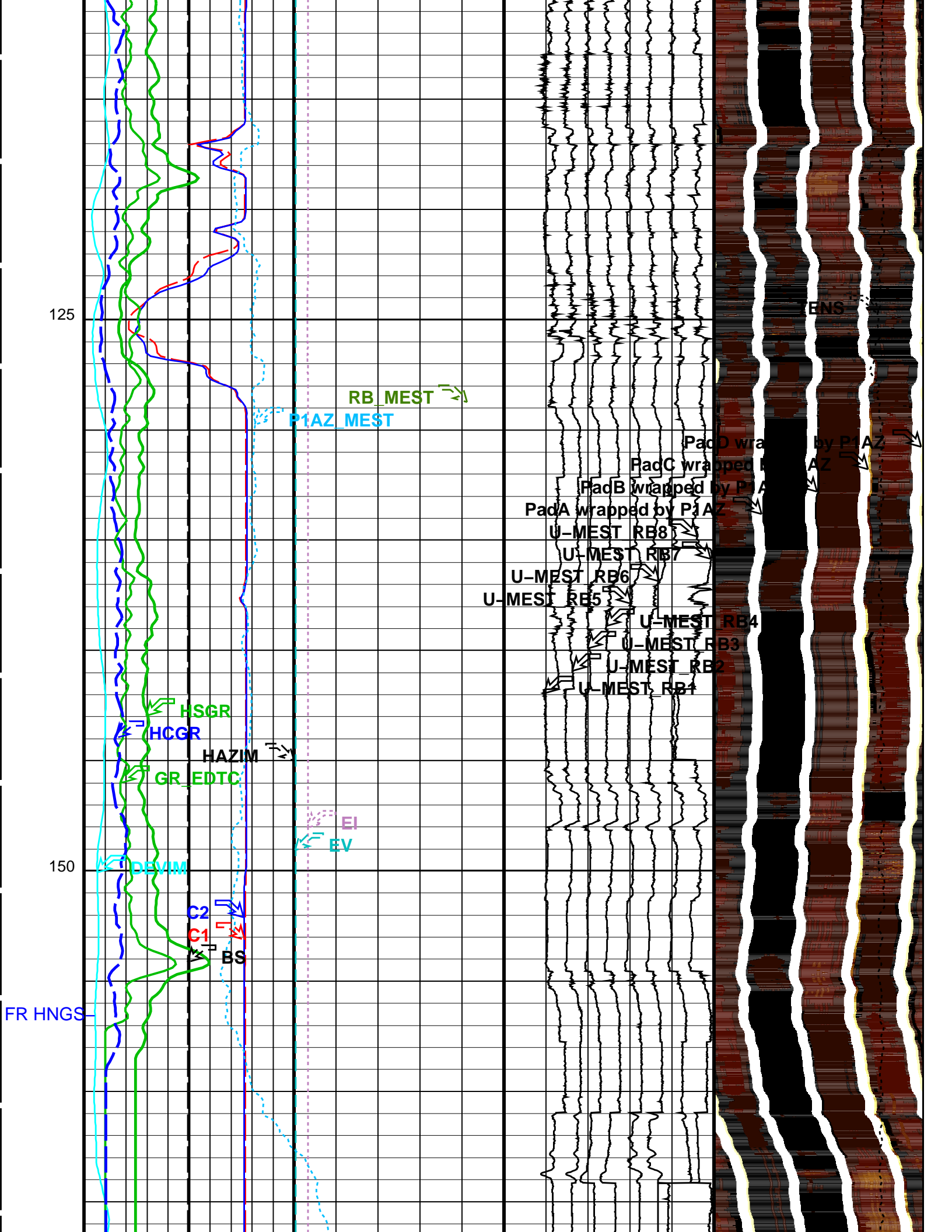
Data Button 8 - Varies with RBS (U-MEST_RB8)		
-80	(-----)	20

Bit Size (BS) 0 (IN) 20		Data Button 7 - Varies with RBS (U-MEST_RB7) -70 (----) 30
Relative Bearing (RB_MEST) -40 (DEG) 360		Data Button 6 - Varies with RBS (U-MEST_RB6) -60 (----) 40
Pad One Azimuth (P1AZ_MEST) -40 (DEG) 360		Data Button 5 - Varies with RBS (U-MEST_RB5) -50 (----) 50  MEST_PADD (U-MEST_RESISTIVITY_PADD_DS) (----)
Hole Azimuth (HAZIM) -40 (DEG) 360		Data Button 4 - Varies with RBS (U-MEST_RB4) -40 (----) 60  MEST_PADC (U-MEST_RESISTIVITY_PADC_DS) (----)
Deviation (DEVIM) 0 (DEG) 10		Data Button 3 - Varies with RBS (U-MEST_RB3) -30 (----) 70  MEST_PADB (U-MEST_RESISTIVITY_PADB_DS) (----)
Caliper 2 (C2) 0 (IN) 20	EMEX Intensity (EI) 0 (AMPS) 10	Data Button 2 - Varies with RBS (U-MEST_RB2) -20 (----) 80  MEST_PADA (U-MEST_RESISTIVITY_PADA_DS) (----)
Caliper 1 (C1) 0 (IN) 20	EMEX Voltage (EV) 0 (V) 50	Data Button 1 - Varies with RBS (U-MEST_RB1) -10 (----) 90 Tension (TENS) 10000 (LBF) 0







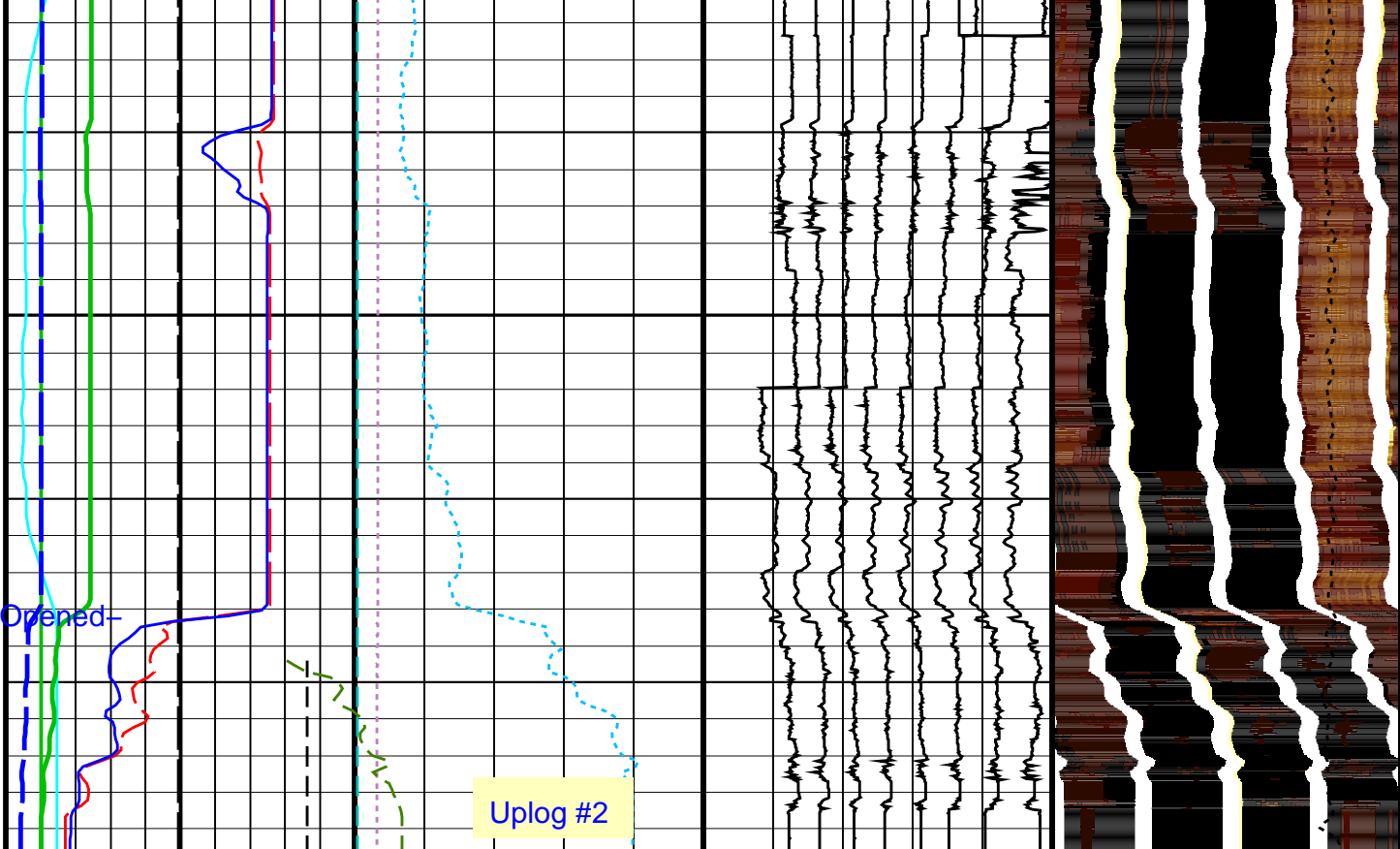


175

Calipers Opened

FR-

Uplog #2



<p>Caliper 1 (C1) (IN)</p> <p>0 20</p>	<p>EMEX Voltage (EV) (V)</p> <p>0 50</p>	<p>Data Button 1 - Varies with RBS (U-MEST_RB1) (----)</p> <p>-10 90</p>	<p>Tension (TENS) (LBF)</p> <p>10000 0</p>
<p>Caliper 2 (C2) (IN)</p> <p>0 20</p>	<p>EMEX Intensity (EI) (AMPS)</p> <p>0 10</p>	<p>Data Button 2 - Varies with RBS (U-MEST_RB2) (----)</p> <p>-20 80</p>	<p>0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086</p> <p>MEST_PADA (U-MEST_RESISTIVITY_PADA_DS) (----)</p>
<p>Deviation (DEVIM) (DEG)</p> <p>0 10</p>	<p>Data Button 3 - Varies with RBS (U-MEST_RB3) (----)</p> <p>-30 70</p>	<p>0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086</p> <p>MEST_PADB (U-MEST_RESISTIVITY_PADB_DS) (----)</p>	
<p>Hole Azimuth (HAZIM) (DEG)</p> <p>-40 360</p>	<p>Data Button 4 - Varies with RBS (U-MEST_RB4) (----)</p> <p>-40 60</p>	<p>0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086</p> <p>MEST_PADC (U-MEST_RESISTIVITY_PADC_DS) (----)</p>	
<p>Pad One Azimuth (P1AZ_MEST) (DEG)</p> <p>-40 360</p>	<p>Data Button 5 - Varies with RBS (U-MEST_RB5) (----)</p> <p>-50 50</p>	<p>0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086</p> <p>MEST_PADD (U-MEST_RESISTIVITY_PADD_DS) (----)</p>	
<p>Relative Bearing (RB_MEST) (DEG)</p> <p>-40 360</p>	<p>Data Button 6 - Varies with RBS (U-MEST_RB6) (----)</p> <p>-60 40</p>		
<p>Bit Size (BS) (IN)</p> <p>0 20</p>	<p>Data Button 7 - Varies with RBS (U-MEST_RB7) (----)</p> <p>-70 30</p>		
<p>Gamma Ray (GR_EDTC) (GAPI)</p> <p>0 100</p>	<p>Data Button 8 - Varies with RBS (U-MEST_RB8) (----)</p> <p>-80 20</p>		

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

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
MEST-B: Micro Electrical Scanner – B (Slim)			
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MDEC	Magnetic Field Declination	0.847043	DEG
MLM	MEST Logging Mode	SCAN1800	
RBS	Resistivity Button Selection	AUTO	
XGAI	Gain	GAIN_2	
XOFF	Offset	OFFSET_0	
DSST-B: Dipole Shear Imager – B			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
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	C1	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00280934	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
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	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.10959	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.970851	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.32	G/C3
DO	Depth Offset for Playback	-142.0	M
PP	Playback Processing	RECOMPUTE	

Format: MEST_C_WRAP_BY_P1AZ Vertical Scale: 1:200 Graphics File Created: 03-Sep-2015 12:16

OP System Version: 19C0-187

MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

Input DLIS Files

DEFAULT	FMS_DSI_NGS_027PUP	FN:38	PRODUCER	30-Aug-2015 14:40	331.5 M	114.8 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_037PUP	FN:47	PRODUCER	03-Sep-2015 12:16
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Input DLIS Files

DEFAULT FMS_DSI_NGS_027PUP FN:38 PRODUCER 30-Aug-2015 14:40 331.5 M 114.8 M

Output DLIS Files

DEFAULT FMS_DSI_NGS_037PUP FN:47 PRODUCER 03-Sep-2015 12:16 189.7 M -27.3 M

OP System Version: 19C0-187

MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

PIP SUMMARY

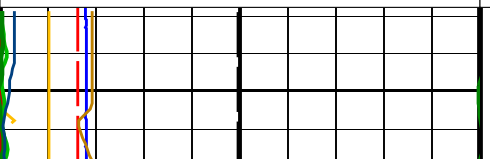
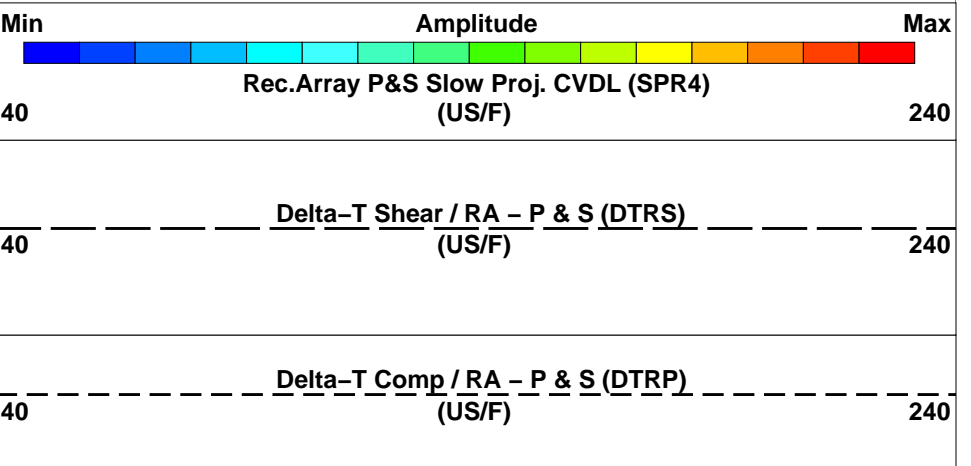
Time Mark Every 60 S

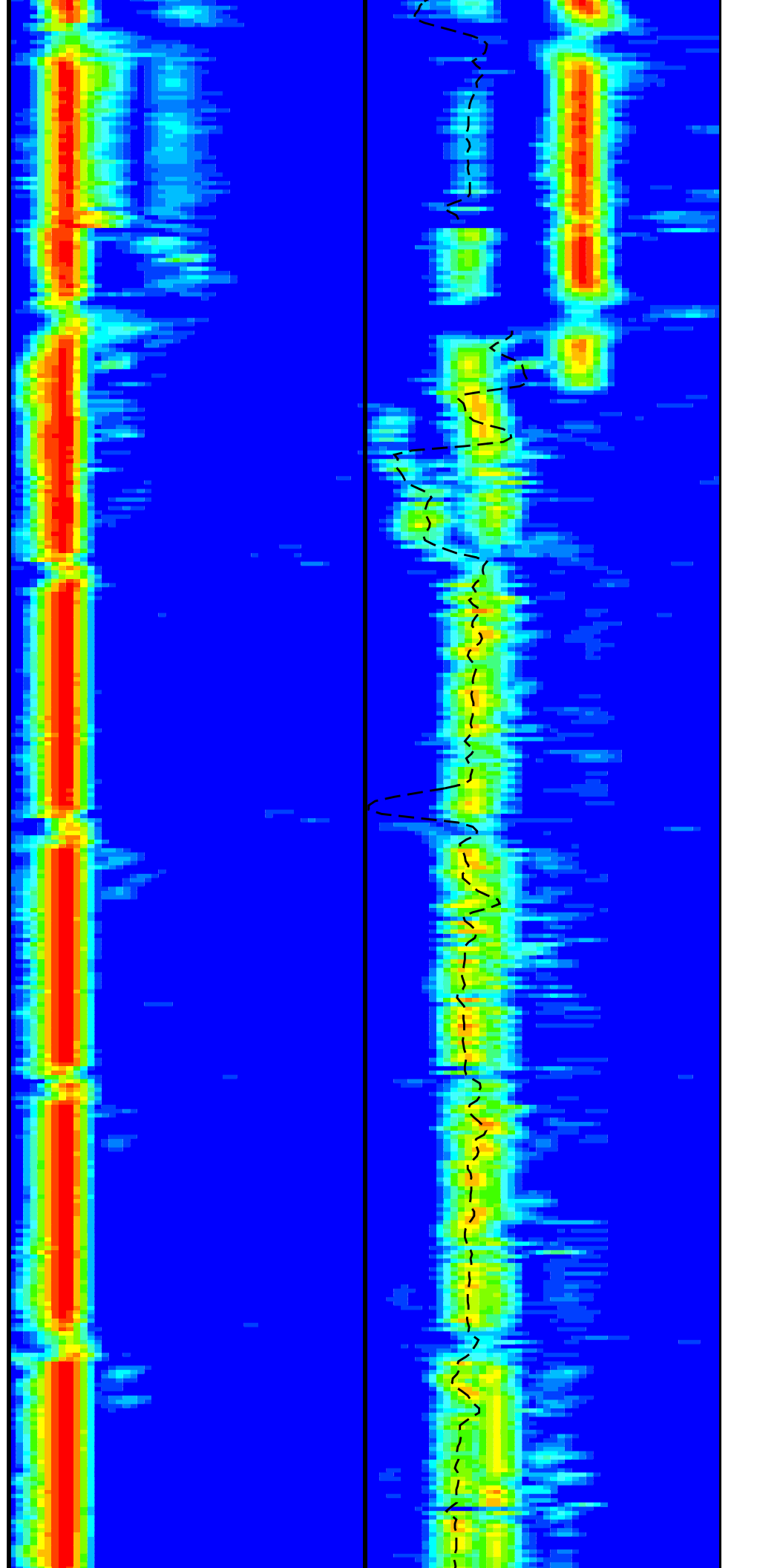
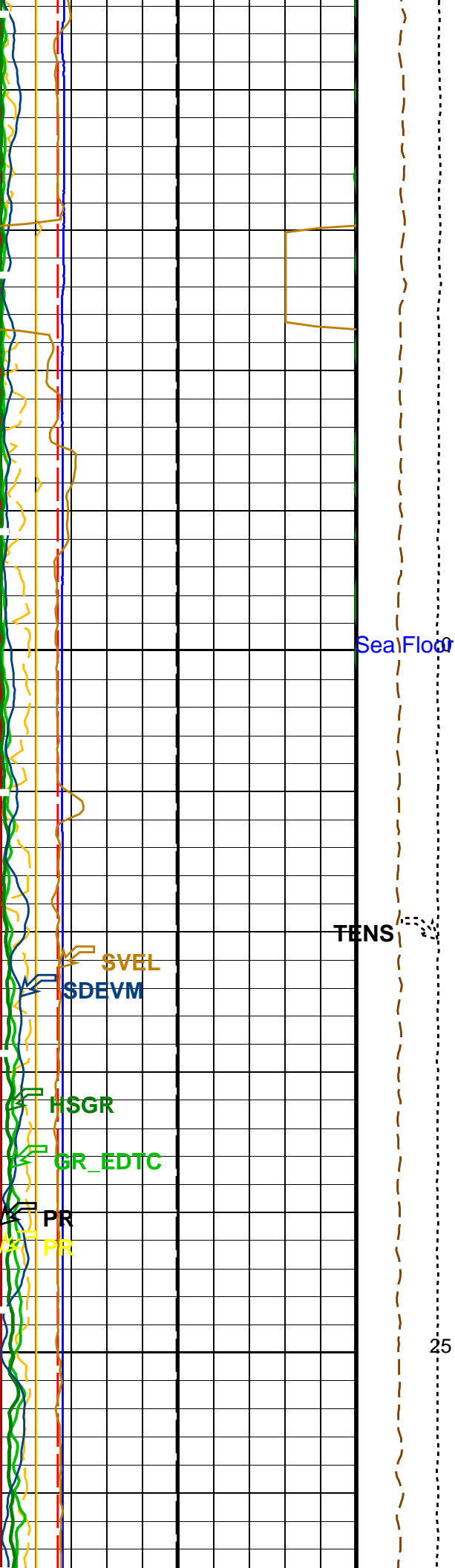
HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	100
Waveform Data Copy Indicator 4 - Monopole P&S (WCI4)		
0	(----)	10
Peak Coherence / RA - P & S Shear (CHRS)		
-1	(----)	9
Peak Coherence / RA - P & S Comp (CHRP)		
0	(----)	10
Gamma Ray (GR_EDTC)		
0	(GAPI)	100
Poisson's Ratio (PR)		
0	(----)	0.5
Sonic Velocity (SVEL)		
1000	(M/S)	6000
Sonde Deviation (SDEVM)		
0	(DEG)	10
Poisson's Ratio (PR)		
0	(----)	0.5

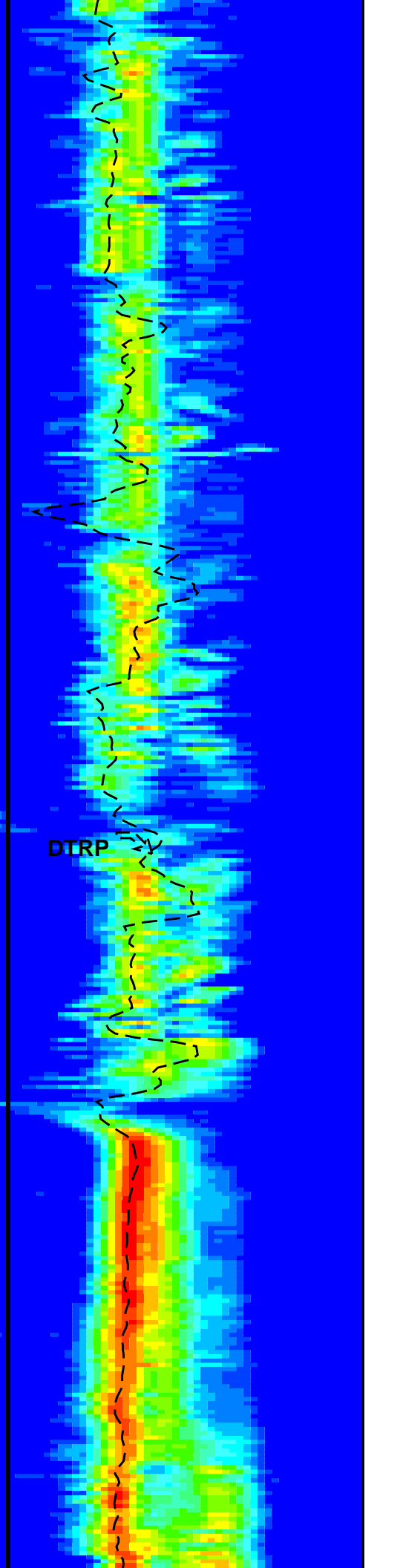
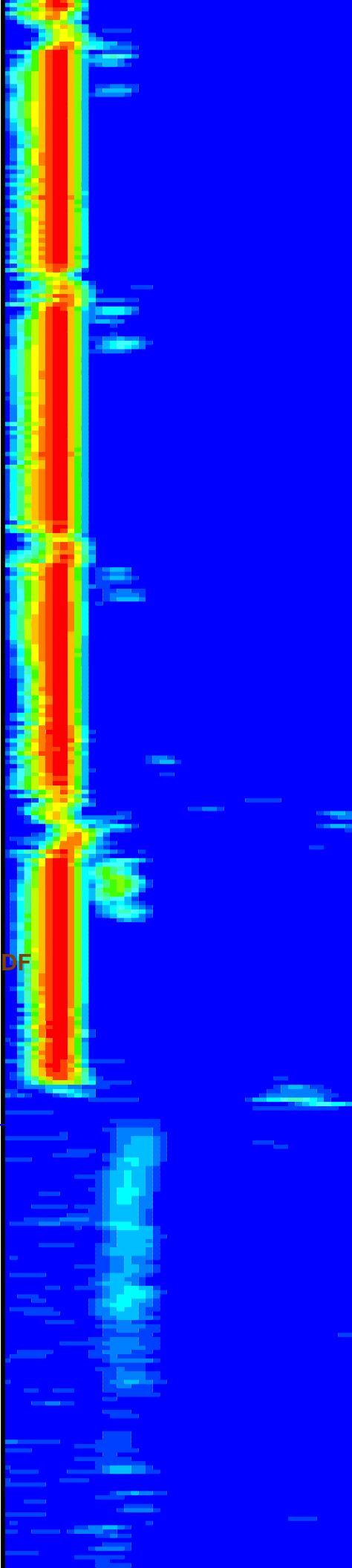
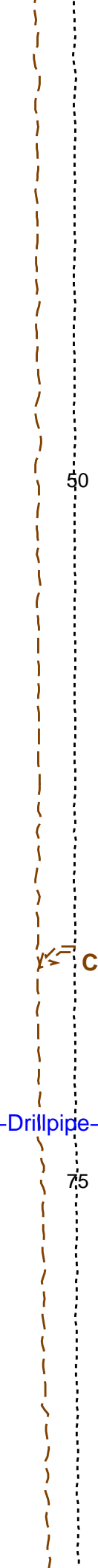
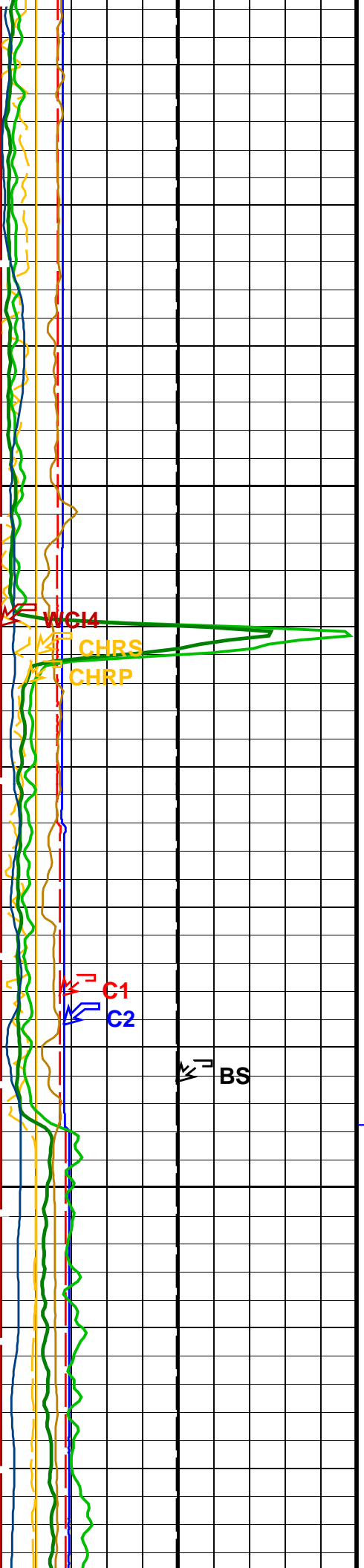
0	Caliper 1 (C1) (IN)	20
0	Caliper 2 (C2) (IN)	20
0	Bit Size (BS) (IN)	20

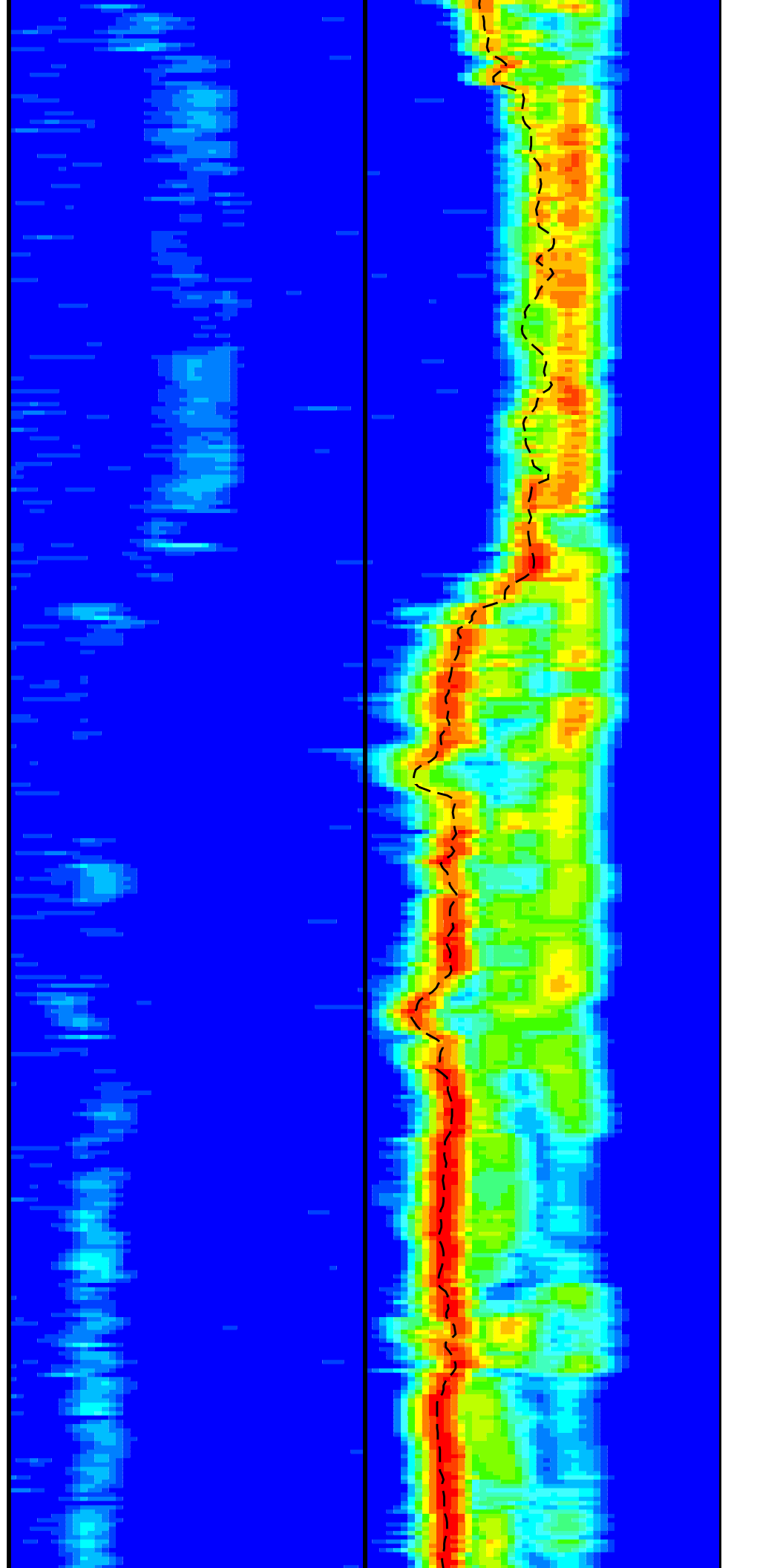
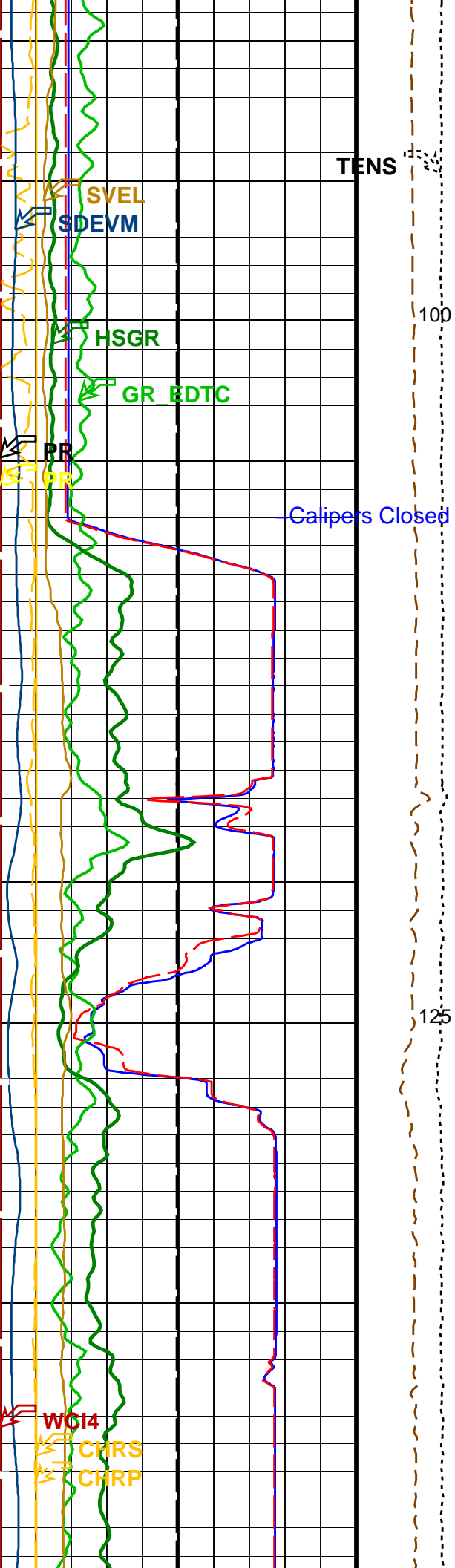
Calibrated Downhole Force (CDF) (LBF)

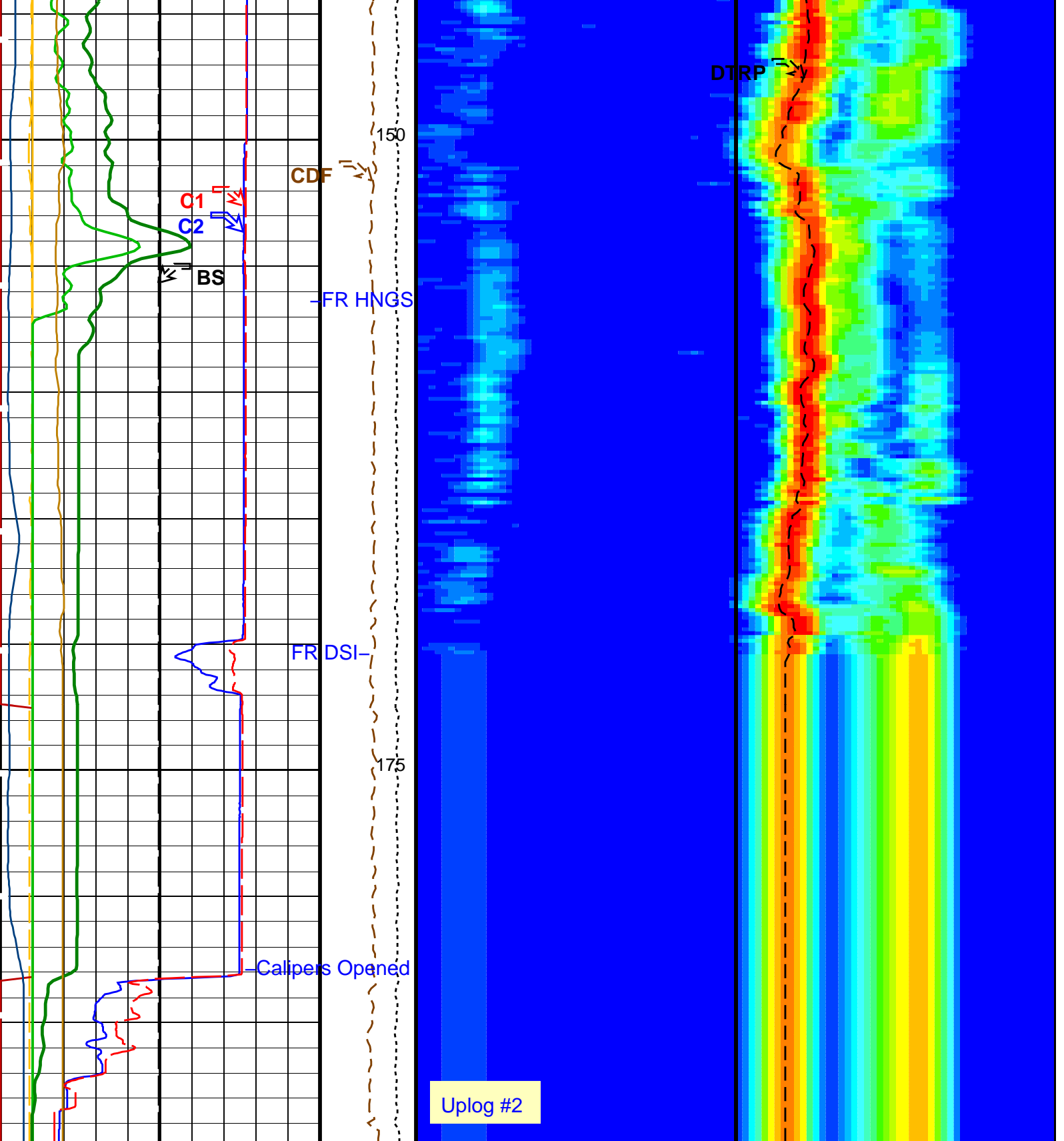
Tension (TENS) (LBF)











<p>Bit Size (BS) (IN)</p> <p>0 20</p>	<p>Tension (TENS) (LBF)</p> <p>10000 0</p>	<p>Delta-T Comp / RA - P & S (DTRP) (US/F)</p> <p>40 240</p>
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<p>Caliper 2 (C2) (IN)</p> <p>0 20</p>	<p>Calibrated Downhole Force (CDF) (LBF)</p> <p>3000 0</p>	<p>Delta-T Shear / RA - P & S (DTRS) (US/F)</p> <p>40 240</p>
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<p>Caliper 1 (C1)</p>	<p>Min Amplitude Max</p>
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Poisson's Ratio (PR)		
0	(----)	0.5
Sonde Deviation (SDEVM)		
0	(DEG)	10
Sonic Velocity (SVEL)		
1000	(M/S)	6000
Poisson's Ratio (PR)		
0	(----)	0.5
Gamma Ray (GR_EDTC)		
0	(GAPI)	100
Peak Coherence / RA - P & S Comp (CHRP)		
0	(----)	10
Peak Coherence / RA - P & S Shear (CHRS)		
-1	(----)	9
Waveform Data Copy Indicator 4 - Monopole P&S (WCI4)		
0	(----)	10
HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	100

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
MEST-B: Micro Electrical Scanner - B (Slim)			
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MDEC	Magnetic Field Declination	0.847043	DEG
DSST-B: Dipole Shear Imager - B			
BHS	Borehole Status	OPEN	
CASF	Label Casing Function - Monopole P&S	50	
COLL	Label Slowness Lower Limit - Monopole P&S Compressional	110	US/F
COUL	Label Slowness Upper Limit - Monopole P&S Compressional	194	US/F
DDE4	Digitizing Delay 4	0	US
DDEX	Digitizing Delay X	0	US
DSI4	Digitizer Sample Interval 4	10	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta-T Source for DTCS Channel	PS_COMP	
DTF	Delta-T Fluid	195	US/F
DTSS	Shear Delta-T Source for DTSM Channel	PS_SHEAR	
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	C1	
LFC	Label Formation Character - Monopole P&S	DYNAMIC	
MCS	Mean Casing Slowness	57	US/F
MTXG	Monopole Transmitter Geometry	186	IN
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
SAM4	DSST Sonic Acquisition Mode 4 - Monopole Mode for P&S	EVEN	

SAMX		OFF	
SAS4	STC Sonic Array Status - Monopole P&S	255	
SBO4	STC Search Band Offset - Monopole P&S	500	US
SBR4	STC Baseline Removal - Monopole P&S	ON	
SBW4	STC Search Bandwidth - Monopole P&S	2000	US
SFC4	STC Formation Character - Monopole P&S	SELECTABLE	
SFM4	STC Filter - Monopole P&S	B3-20K	
SHLL	Label Slowness Lower Limit - Monopole P&S Shear	235	US/F
SHUL	Label Slowness Upper Limit - Monopole P&S Shear	240	US/F
SLL4	STC Slowness Lower Limit - Monopole P&S	40	US/F
SST4	STC Slowness Step - Monopole P&S	2	US/F
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
SUL4	STC Slowness Upper Limit - Monopole P&S	240	US/F
SWD4	STC Slowness Width - Monopole P&S	10	US/F
TBF4	STC Time for Baseline Fill - Monopole P&S	300	US
TLL4	STC Time Lower Limit - Monopole P&S	150	US
TST4	STC Time Step - Monopole P&S	50	US
TUL4	STC Time Upper Limit - Monopole P&S	3660	US
TWD4	STC Time Width - Monopole P&S	1000	US
TWI4	STC Integration Time Window - Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
WFM4	Waveform Mode 4	W1	
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	C1	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00280934	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
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	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.10959	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.970851	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.32	G/C3
DO	Depth Offset for Playback	-142.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_P_S_Only Vertical Scale: 1:200 Graphics File Created: 03-Sep-2015 12:16

OP System Version: 19C0-187

MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

Input DLIS Files

DEFAULT	FMS_DSI_NGS_027PUP	FN:38	PRODUCER	30-Aug-2015 14:40	331.5 M	114.8 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_037PUP	FN:47	PRODUCER	03-Sep-2015 12:16		
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Input DLIS Files

DEFAULT	FMS_DSI_NGS_034PUP	FN:25	PRODUCER	30-Aug-2015 14:26	330.0 M	365.0 M
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Output DLIS Files

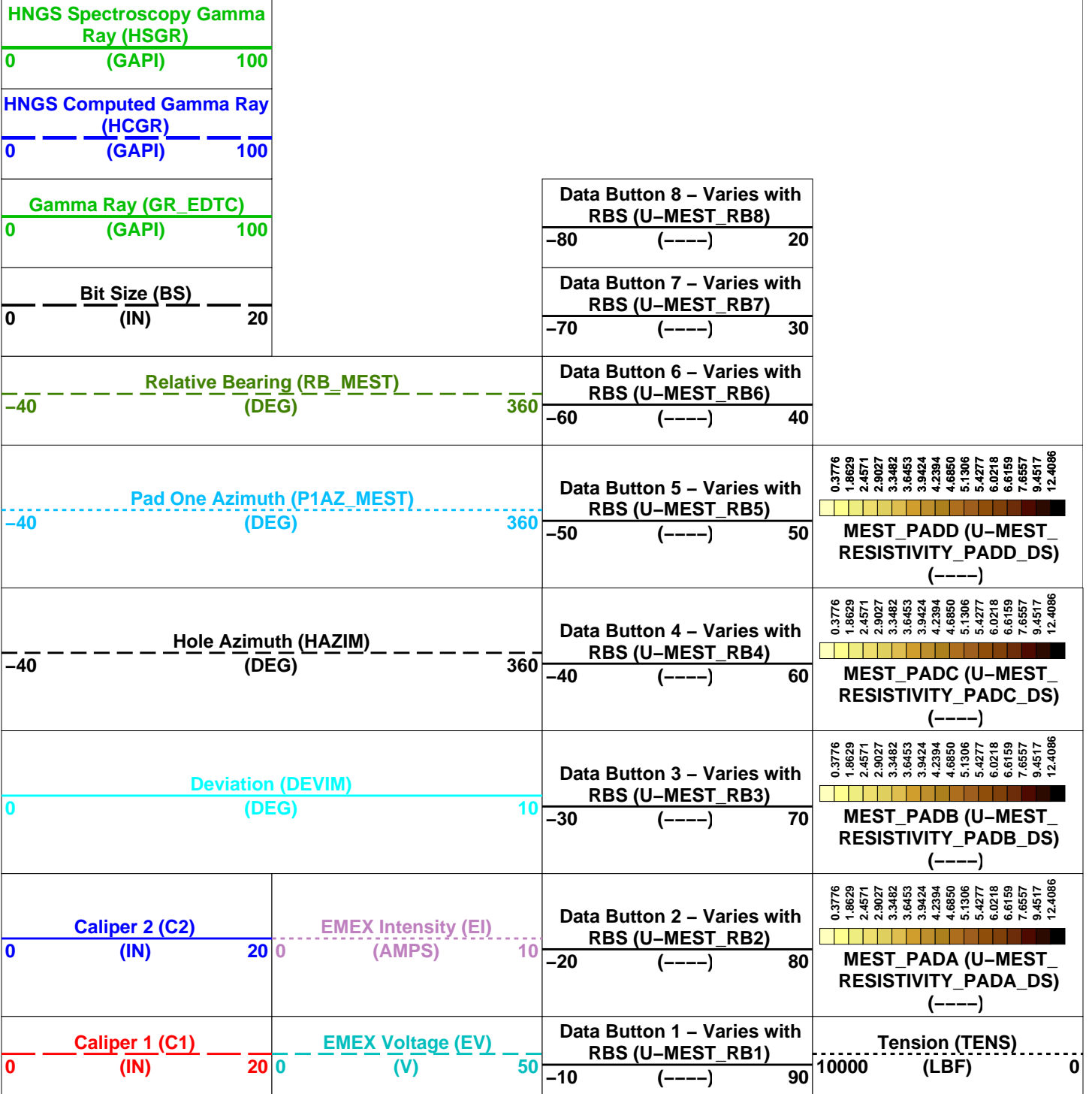
DEFAULT FMS_DSI_NGS_036PUP FN:46 PRODUCER 03-Sep-2015 12:02 187.5 M 123.1 M

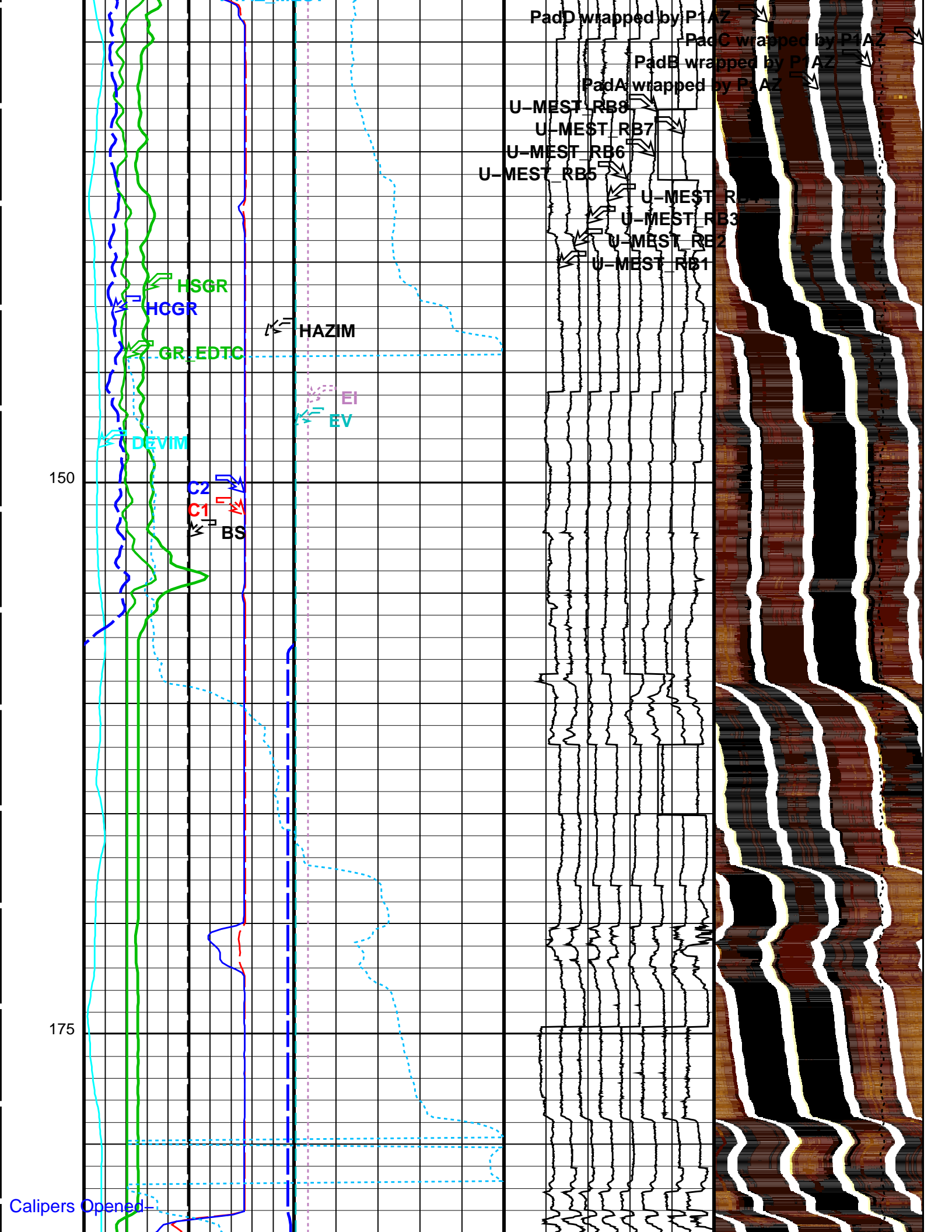
OP System Version: 19C0-187

MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

PIP SUMMARY

Time Mark Every 60 S





PadD wrapped by P1AZ
PadC wrapped by P1AZ
PadB wrapped by P1AZ
PadA wrapped by P1AZ
U-MEST RB8
U-MEST RB7
U-MEST RB6
U-MEST RB5
U-MEST RB4
U-MEST RB3
U-MEST RB2
U-MEST RB1

HSGR
HCGR
GR_EDTC
HAZIM

EI
EV

150

C2
C1
BS

175

Calipers Opened

Uplog #1

<p>Caliper 1 (C1) (IN)</p> <p>0 20</p>	<p>EMEX Voltage (EV) (V)</p> <p>0 50</p>	<p>Data Button 1 – Varies with RBS (U-MEST_RB1)</p> <p>-10 (----) 90</p>	<p>Tension (TENS) (LBF)</p> <p>10000 0</p>
<p>Caliper 2 (C2) (IN)</p> <p>0 20</p>	<p>EMEX Intensity (EI) (AMPS)</p> <p>0 10</p>	<p>Data Button 2 – Varies with RBS (U-MEST_RB2)</p> <p>-20 (----) 80</p>	<p>0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086</p> <p>MEST_PADA (U-MEST_RESISTIVITY_PADA_DS) (----)</p>
<p>Deviation (DEVIM) (DEG)</p> <p>0 10</p>		<p>Data Button 3 – Varies with RBS (U-MEST_RB3)</p> <p>-30 (----) 70</p>	<p>0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086</p> <p>MEST_PADB (U-MEST_RESISTIVITY_PADB_DS) (----)</p>
<p>Hole Azimuth (HAZIM) (DEG)</p> <p>-40 360</p>		<p>Data Button 4 – Varies with RBS (U-MEST_RB4)</p> <p>-40 (----) 60</p>	<p>0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086</p> <p>MEST_PADC (U-MEST_RESISTIVITY_PADC_DS) (----)</p>
<p>Pad One Azimuth (P1AZ_MEST) (DEG)</p> <p>-40 360</p>		<p>Data Button 5 – Varies with RBS (U-MEST_RB5)</p> <p>-50 (----) 50</p>	<p>0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086</p> <p>MEST_PADD (U-MEST_RESISTIVITY_PADD_DS) (----)</p>
<p>Relative Bearing (RB_MEST) (DEG)</p> <p>-40 360</p>		<p>Data Button 6 – Varies with RBS (U-MEST_RB6)</p> <p>-60 (----) 40</p>	
<p>Bit Size (BS) (IN)</p> <p>0 20</p>		<p>Data Button 7 – Varies with RBS (U-MEST_RB7)</p> <p>-70 (----) 30</p>	
<p>Gamma Ray (GR_EDTC) (GAPI)</p> <p>0 100</p>		<p>Data Button 8 – Varies with RBS (U-MEST_RB8)</p> <p>-80 (----) 20</p>	
<p>HNGS Computed Gamma Ray (HCGR) (GAPI)</p> <p>0 100</p>			
<p>HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)</p> <p>0 100</p>			

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
MEST-B: Micro Electrical Scanner – B (Slim)		
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION
MDEC	Magnetic Field Declination	0.847043 DEG
MLM	MEST Logging Mode	SCAN1800
RBS	Resistivity Button Selection	AUTO
XGAI	Gain	GAIN_2
XOFF	Offset	OFFSET_0
DSST-B: Dipole Shear Imager – B		
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	C1
HNGS-BA: Hostile Natural Gamma Ray Sonda		

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	C1	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00280934	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
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	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.10959	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.970851	
	EDTC-B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.32	G/C3
DO	Depth Offset for Playback	-142.0	M
PP	Playback Processing	RECOMPUTE	

Format: MEST_C_WRAP_BY_P1AZ Vertical Scale: 1:200 Graphics File Created: 03-Sep-2015 12:02

OP System Version: 19C0-187

MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

Input DLIS Files

DEFAULT	FMS_DSI_NGS_024PUP	FN:35	PRODUCER	30-Aug-2015 14:26	329.2 M	265.2 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_036PUP	FN:46	PRODUCER	03-Sep-2015 12:02		
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Company: International Ocean Discovery Program Well: Expedition 356, Site U1461 D

Input DLIS Files

DEFAULT	FMS_DSI_NGS_024PUP	FN:35	PRODUCER	30-Aug-2015 14:26	329.2 M	265.2 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_036PUP	FN:46	PRODUCER	03-Sep-2015 12:02	187.5 M	123.1 M
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OP System Version: 19C0-187

MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

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)		
0	(----)	10
Gamma Ray (GR_EDTC) (GAPI)		
0		100
Poisson's Ratio (PR)		
0	(----)	0.5
Sonic Velocity (SVEL) (M/S)		
1000		6000
Sonde Deviation (SDEVM) (DEG)		
0		10
Poisson's Ratio (PR)		
0	(----)	0.5

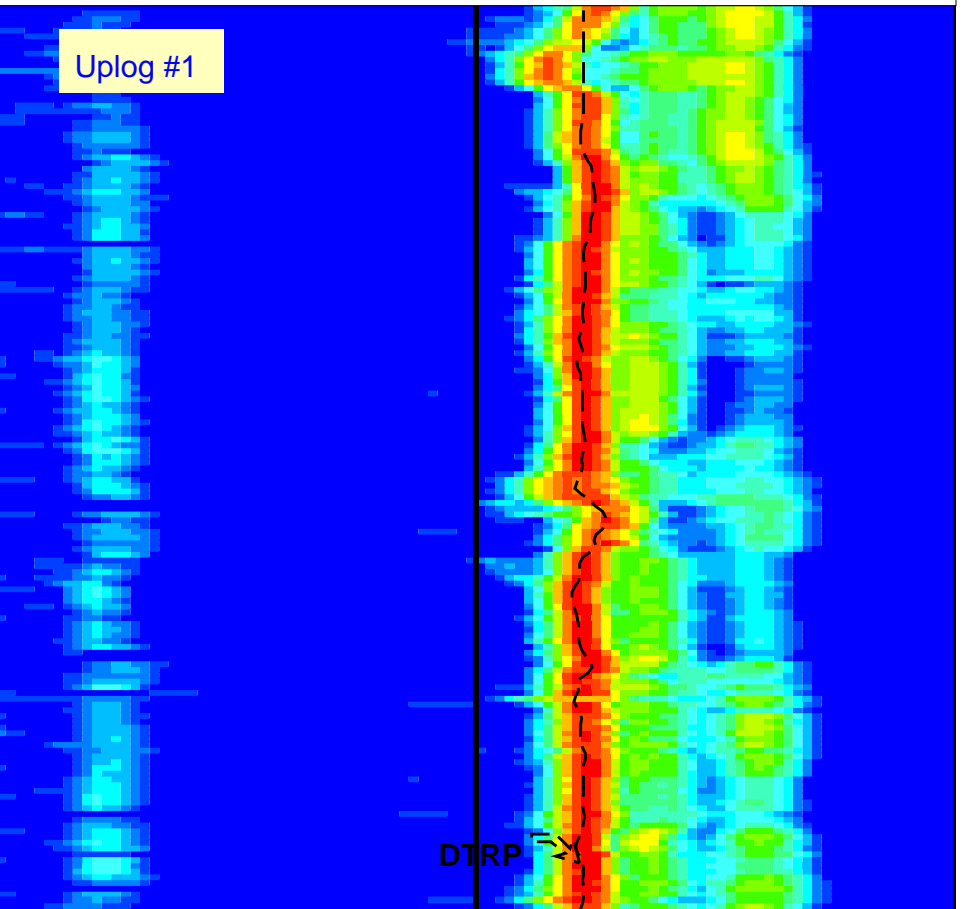
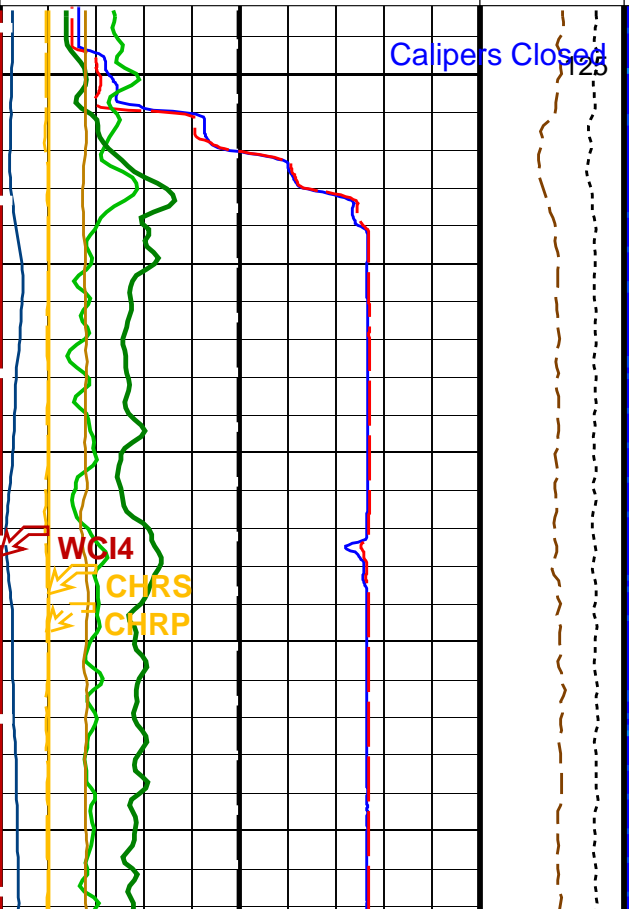
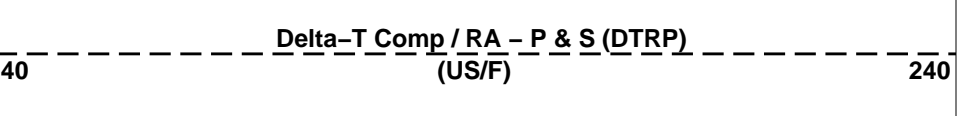
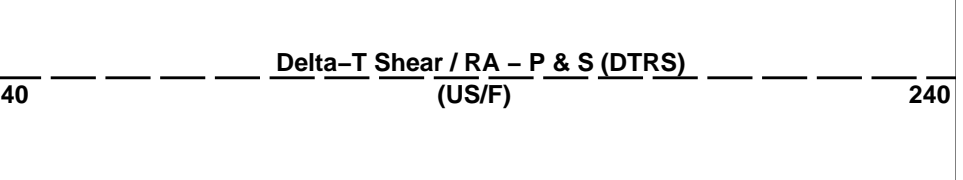
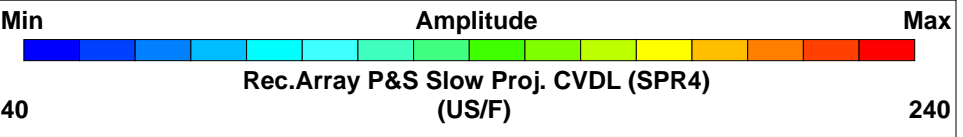
0	Caliper 1 (C1) (IN)	20
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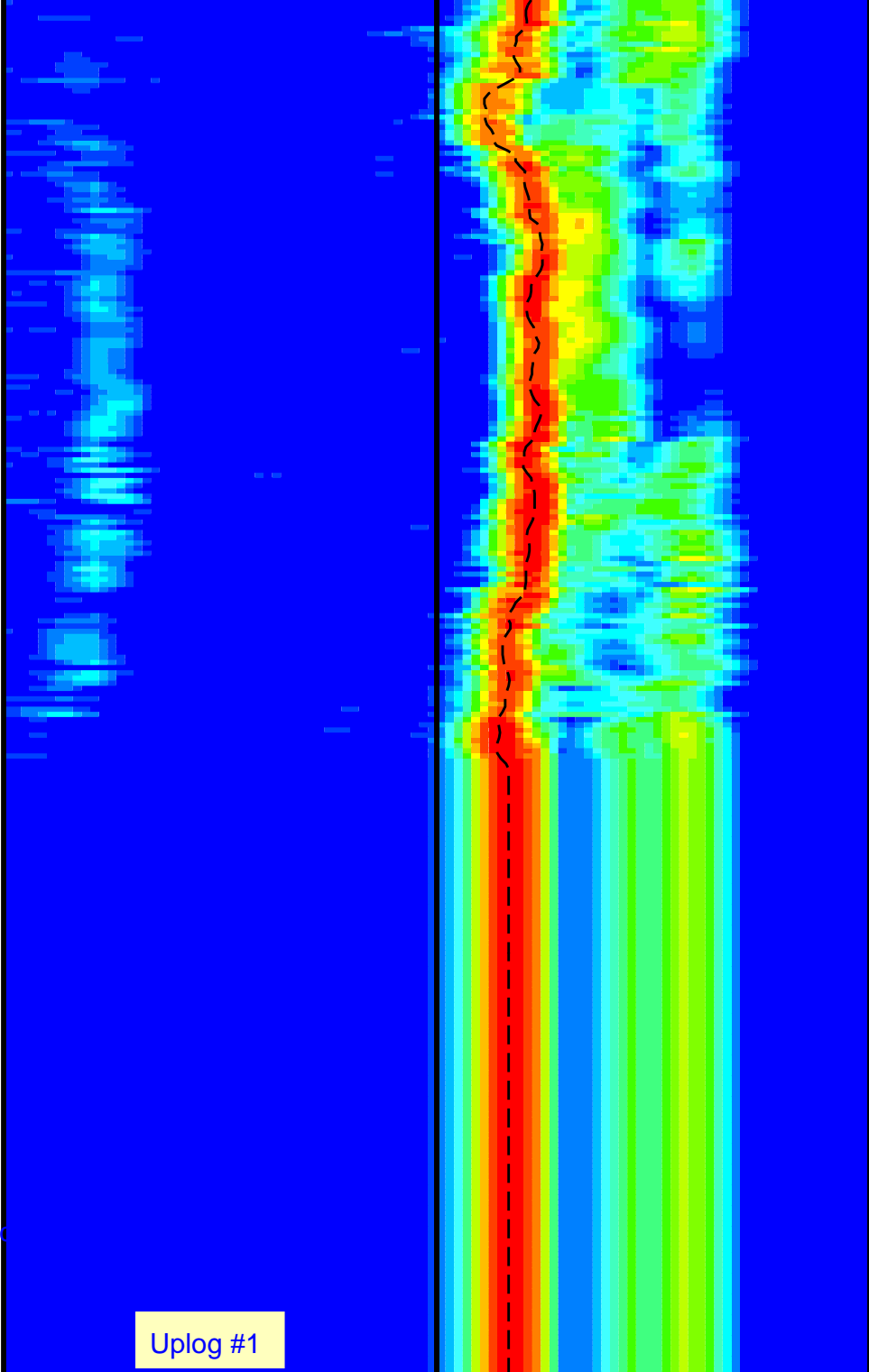
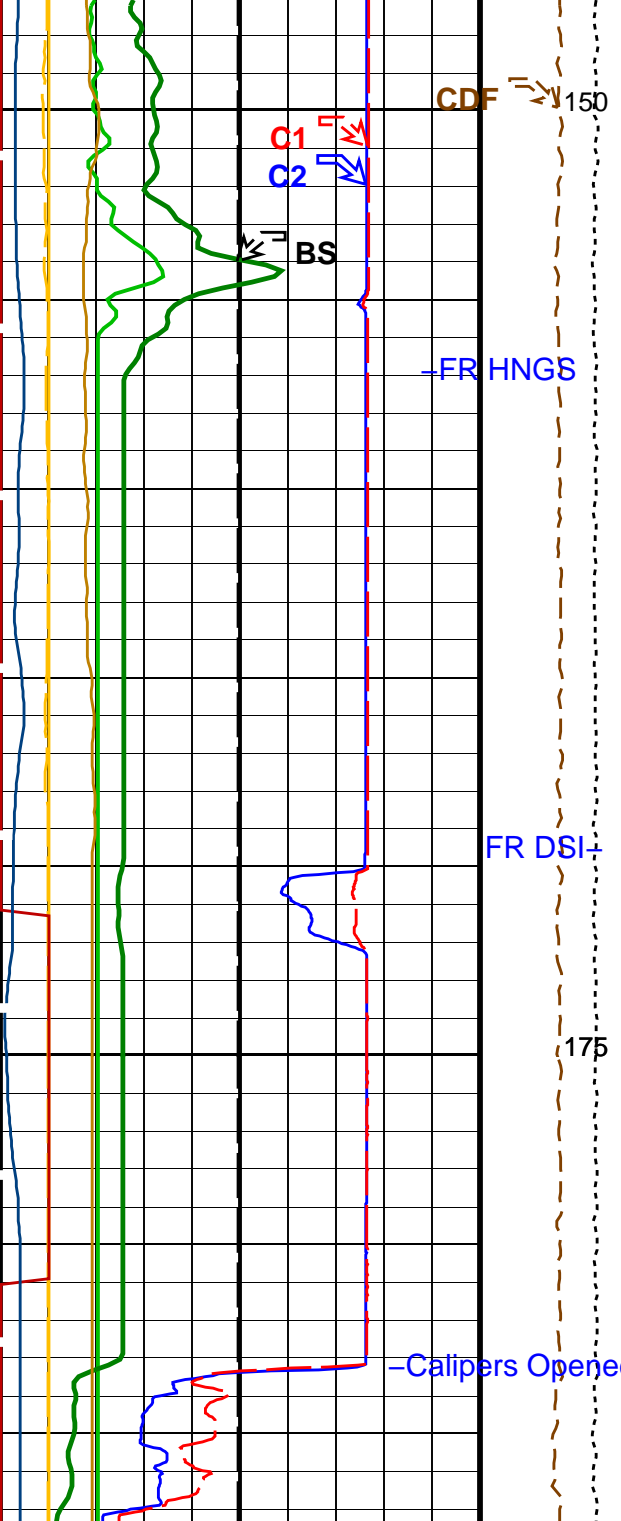
0	Caliper 2 (C2) (IN)	20
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0	Bit Size (BS) (IN)	20
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3000	0
Calibrated Downhole Force (CDF) (LBF)	

10000	0
Tension (TENS) (LBF)	





0	Bit Size (BS) (IN)	20	10000	0	40	Delta-T Comp / RA - P & S (DTRP) (US/F)	240	
0	Caliper 2 (C2) (IN)	20	3000	0	40	Delta-T Shear / RA - P & S (DTRS) (US/F)	240	
0	Caliper 1 (C1) (IN)	20	Min Max Rec.Array P&S Slow Proj. CVDL (SPR4) (US/F)					240
0	Poisson's Ratio (PR) (----	0.5						
Sonde Deviation (SDEVM)								

0	(DEG)	10
Sonic Velocity (SVEL)		
1000	(M/S)	6000
Poisson's Ratio (PR)		
0	(-----)	0.5
Gamma Ray (GR_EDTC)		
0	(GAPI)	100
Peak Coherence / RA - P & S Comp (CHRP)		
0	(-----)	10
Peak Coherence / RA - P & S Shear (CHRS)		
-1	(-----)	9
Waveform Data Copy Indicator 4 - Monopole P&S (WCI4)		
0	(-----)	10
HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	100

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
MEST-B: Micro Electrical Scanner - B (Slim)			
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MDEC	Magnetic Field Declination	0.847043	DEG
DSST-B: Dipole Shear Imager - B			
BHS	Borehole Status	OPEN	
CASF	Label Casing Function - Monopole P&S	50	
COLL	Label Slowness Lower Limit - Monopole P&S Compressional	85	US/F
COUL	Label Slowness Upper Limit - Monopole P&S Compressional	192	US/F
DDE4	Digitizing Delay 4	0	US
DDEX	Digitizing Delay X	0	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	195	US/F
DTSS	Shear Delta-T Source for DTSM Channel	PS_SHEAR	
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	C1	
LFC	Label Formation Character - Monopole P&S	DYNAMIC	
MCS	Mean Casing Slowness	57	US/F
MTXG	Monopole Transmitter Geometry	186	IN
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
SAM4	DSST Sonic Acquisition Mode 4 - Monopole Mode for P&S	EVEN	
SAMX	DSST Sonic Acquisition Mode X - Both Dipoles or Monopole Mode for Expert	OFF	
SAS4	STC Sonic Array Status - Monopole P&S	255	
SBO4	STC Search Band Offset - Monopole P&S	500	US
SBR4	STC Baseline Removal - Monopole P&S	ON	
SBW4	STC Search Bandwidth - Monopole P&S	2000	US
SFC4	STC Formation Character - Monopole P&S	SELECTABLE	
SEM4	STC Filter - Monopole P&S	B2_20K	

SPM4	STC Filter – Monopole P&S	235	US/F
SHLL	Label Slowness Lower Limit – Monopole P&S Shear	240	US/F
SLL4	STC Slowness Lower Limit – Monopole P&S	40	US/F
SST4	STC Slowness Step – Monopole P&S	2	US/F
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
SUL4	STC Slowness Upper Limit – Monopole P&S	240	US/F
SWD4	STC Slowness Width – Monopole P&S	10	US/F
TBF4	STC Time for Baseline Fill – Monopole P&S	300	US
TLL4	STC Time Lower Limit – Monopole P&S	150	US
TST4	STC Time Step – Monopole P&S	50	US
TUL4	STC Time Upper Limit – Monopole P&S	3660	US
TWD4	STC Time Width – Monopole P&S	1000	US
TWI4	STC Integration Time Window – Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
WFM4	Waveform Mode 4	W1	
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	C1	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00280934	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
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	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.10959	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.970851	
EDTC–B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.32	G/C3
DO	Depth Offset for Playback	-142.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_P_S_Only Vertical Scale: 1:200 Graphics File Created: 03–Sep–2015 12:02

OP System Version: 19C0–187

MEST–B	19C0–187	DTA–A	19C0–187
DSST–B	19C0–187	HNGC–B	19C0–187
HNGS–BA	19C0–187	EDTC–B	SKK–5169–EDTCB

Input DLIS Files

DEFAULT	FMS_DSI_NGS_024PUP	FN:35	PRODUCER	30–Aug–2015 14:26	329.2 M	265.2 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_036PUP	FN:46	PRODUCER	03–Sep–2015 12:02
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Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Micro Electrical Scanner – B (Slim) Wellsite Calibration – Caliper Calibration							
Before: 5–Aug–2015 16:41							
Caliper 1 Zero Measurement	12.00	N/A	12.07	N/A	N/A	N/A	IN
Caliper 2 Zero Measurement	12.00	N/A	11.92	N/A	N/A	N/A	IN
Caliper 1 Plus Measurement	15.12	N/A	15.26	N/A	N/A	N/A	IN

Caliper 1 Plus Measurement	15.13	N/A	15.36	N/A	N/A	N/A	N/A	IN
Caliper 2 Plus Measurement	15.13	N/A	15.29	N/A	N/A	N/A	N/A	IN

Micro Electrical Scanner – B (Slim) Wellsite Calibration – CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY

Before: 29-Aug-2015 13:38

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: 29-Aug-2015 13:38

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: 31-Jul-2015 10:01 Before: 5-Aug-2015 7:59 After: 5-Aug-2015 9:23

Na 511 Peak Loc	40.00	37.71	37.63	37.62	-0.01348	1.000	
Na 511 Peak Res	15.50	16.11	15.42	15.72	0.3043	2.000	%
High Voltage	1150	1211	1201	1204	2.856	N/A	V
Na 1785 Peak Loc	142.6	136.7	136.8	136.3	-0.4773	7.000	
Na 1785 Peak Res	8.500	10.13	8.646	8.654	0.007848	2.000	%
Temperature	15.50	22.16	22.65	22.78	0.1236	N/A	DEGC
Na Count Rate	45.00	43.96	43.37	42.72	-0.6500	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check

Master: 31-Jul-2015 10:01 Before: 5-Aug-2015 7:59 After: 5-Aug-2015 9:23

Na 511 Peak Loc	40.00	39.69	39.55	39.58	0.02773	1.000	
Na 511 Peak Res	15.50	15.27	16.42	15.01	-1.409	2.000	%
High Voltage	1150	1084	1083	1085	2.161	N/A	V
Na 1785 Peak Loc	142.6	143.4	143.2	142.7	-0.5449	7.000	
Na 1785 Peak Res	8.500	8.457	8.664	8.451	-0.2128	2.000	%
Temperature	15.50	21.65	22.00	22.57	0.5625	N/A	DEGC
Na Count Rate	45.00	44.18	43.52	42.99	-0.5368	8.000	CPS

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

Master: 31-Jul-2015 10:01 Before: 5-Aug-2015 7:59 After: 5-Aug-2015 9:23

Coincidence Count Rate Ratio	1.000	0.9887	0.9903	0.9926	0.002269	0.05000	
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Hostile Natural Gamma Ray Sonde Master Calibration – Detector 1 Calibration

Master: 31-Jul-2015 9:56

Na 511 Peak Set Point	40.00	39.00	---	---	---	---	
Th Peak Loc	209.6	206.7	---	---	---	---	
Th Peak Res	7.000	8.351	---	---	---	---	%
Background Count Rate	142.5	37.67	---	---	---	---	CPS
Gain Ratio	1.000	1.042	---	---	---	---	

Hostile Natural Gamma Ray Sonde Master Calibration – Detector 2 Calibration

Master: 31-Jul-2015 9:56

Na 511 Peak Set Point	40.00	41.00	---	---	---	---	
Th Peak Loc	209.6	211.5	---	---	---	---	
Th Peak Res	7.000	6.877	---	---	---	---	%
Background Count Rate	142.5	39.84	---	---	---	---	CPS
Gain Ratio	1.000	1.014	---	---	---	---	

Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration

Before: 11-Aug-2015 23:33

EDTC Z-Axis Acceleration	9.810	N/A	9.856	N/A	N/A	N/A	M/S2
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Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration

Before: 5-Aug-2015 7:56 After: 5-Aug-2015 9:33

Gamma Ray (Jig – Bkg)	152.3	N/A	152.3	152.9	0.5175	13.85	GAPI
Gamma Ray (Calibrated)	164.0	N/A	164.0	164.6	0.5571	15.00	GAPI

Micro Electrical Scanner – B (Slim) / Equipment Identification

Primary Equipment:

MEST Sonde – B	MEDS – B	770
MEST Preamplifier Cartridge – AB	MEPC – AB	807
GPIT Cartridge – AC	GPIC – AC	840
MEST Acquisition Cartridge – A	MEAC – A	804

Auxiliary Equipment:

MEST-B Preamplifier Cartridge Housing	MEPH – A	701
MEST Acquisition Cartridge Housing (Slim)	MEAH – B	726

Hostile Natural Gamma Ray Cartridge – B / Equipment Identification

Primary Equipment: HNGC Cartridge	HNGC – B	439
Auxiliary Equipment: HNGC Housing	HNGH – A	380

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment: HNGS Sonde	HNGS – BA	177
Auxiliary Equipment: HNGS Sonde Housing Gamma Source Radioactive	HNSH – BA GSR – U	174 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		37.71	Master		16.11	Master		1211
Before		37.63	Before		15.42	Before		1201
After		37.62	After		15.72	After		1204
	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		136.7	Master		10.13	Master		22.16
Before		136.8	Before		8.646	Before		22.65
After		136.3	After		8.654	After		22.78
	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		43.96						
Before		43.37						
After		42.72						
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)							
Master: 31-Jul-2015 10:01			Before: 5-Aug-2015 7:59			After: 5-Aug-2015 9:23		

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		39.69	Master		15.27	Master		1084
Before		39.55	Before		16.42	Before		1083
After		39.58	After		15.01	After		1085
	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		143.4	Master		8.457	Master		21.65
Before		143.2	Before		8.664	Before		22.00
After		142.7	After		8.451	After		22.57
	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		44.18						
Before		43.52						
After		42.99						

10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)
Master: 31-Jul-2015 10:01		
Before: 5-Aug-2015 7:59		
After: 5-Aug-2015 9:23		

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		0.9887
Before		0.9903
After		0.9926
	0.9500 (Minimum)	1.000 (Nominal)
		1.050 (Maximum)
Master: 31-Jul-2015 10:01		
Before: 5-Aug-2015 7:59		
After: 5-Aug-2015 9:23		

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			39.00	Master			206.7	Master			8.351
	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			37.67	Master			1.042				
	10.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)		0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)				
Master: 31-Jul-2015 9:56											

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			211.5	Master			6.877
	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			39.84	Master			1.014				
	10.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)		0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)				
Master: 31-Jul-2015 9:56											

Enhanced DTS Cartridge / Equipment Identification			
Primary Equipment:			
EDTC Gamma Ray Detector	EDTG - A/B	8305	
Enhanced DTS Cartridge	EDTC - B	8317	
Auxiliary Equipment:			
EDTC Housing	EDTH - B	8303	

Enhanced DTS Cartridge Wellsite Calibration		
EDTC Accelerometer Calibration		
Phase	EDTC Z-Axis Acceleration M/S2	Value
Before		9.856
	9.610 (Minimum)	9.810 (Nominal)
		10.01 (Maximum)
Before: 11-Aug-2015 23:33		

Enhanced DTS Cartridge Wellsite Calibration											
Detector Calibration											
Phase	Gamma Ray Background GAPI		Value	Phase	Gamma Ray (Jig - Bkg) GAPI		Value	Phase	Gamma Ray (Calibrated) GAPI		Value
Before			9.594	Before			152.3	Before			164.0
After			10.26	After			152.9	After			164.6
	0	30.00	120.0		138.5	152.3	166.2		149.0	164.0	179.0

(Minimum)

(Nominal)

(Maximum)

(Minimum)

(Nominal)

(Maximum)

(Minimum)

(Nominal)

(Maximum)

Before: 5-Aug-2015 7:56

After: 5-Aug-2015 9:33

Company: International Ocean Discovery Program

Schlumberger

Well: Expedition 356, Site U1461 D

Field: Indonesian Throughflow

Rig: JOIDES Resolution

Ocean: Indian

Formation Micro Scanner (FMS)

Dipole Shear Sonic P&S (DSI)

Hostile Natural Gamma Ray (HNGS)