

Well:	Wardie-1
Field:	Exploration
Rig:	West Triton
Country:	Australia

[illegible][illegible]

Logging Date		
Run Number		
Depth Driller		
Schlumberger Depth		
Bottom Log Interval		
Top Log Interval		
Casing Driller Size @ Depth	@	
Casing Schlumberger		
Bit Size		
Type Fluid In Hole		
Density	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		

## DEPTH SUMMARY LISTING

Depth System Equipment	
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Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-H	Type:	CMTD-B/A	Type:	7-46ZV-XS
Serial Number:	796	Serial Number:	1721	Serial Number:	77178
Calibration Date:	29-Jan-2008	Calibration Date:	27-Feb-2008	Length:	7315.20 M
Calibrator Serial Number:	1009	Calibrator Serial Number:	1051	Conveyance Method:	Wireline
Calibration Cable Type:	7-46ZV-XS	Calibration Gain:	0.81	Rig Type:	Offshore_Fixed
Wheel Correction 1:	-5	Calibration Offset:	-610.00		
Wheel Correction 2:	-5				

Log Sequence:	First Log In the Well
Rig Up Length At Surface:	78.22 M
Rig Up Length At Bottom:	78.12 M
Rig Up Length Correction:	0.10 M
Stretch Correction:	1.90 M
Tool Zero Check At Surface:	0.90 M

1. First Run in hole , all schlumberger depth control procedures followed
2. IDW used as a primary depth reference , Z Chart as a secondary
- 3.
- 4.
- 5.
- 6.

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All depths are  
driller's depths



747.2  
747.2

13.375

12.415

Casing Shoe  
Borehole Segment

1766.0

12.250

Borehole Segment Bottom

**Schlumberger**

**High Resolution Pass  
1:200**

MAXIS Field Log

Company: 3D Oil Limited

Well: Wardie-1

**Input DLIS Files**

DEFAULT	SONIC_HRLA_TLD_MCFL_009LUP FN:16	PRODUCER	06-Jun-2008 11:06	1700.8 M	1553.9 M
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**Output DLIS Files**

DEFAULT	SONIC_HRLA_TLD_MCFL_014PUP FN:14	PRODUCER	08-Jun-2008 10:04	1675.0 M	1565.3 M
CUSTOMER	SONIC_HRLA_TLD_MCFL_014PUC FN:15	CUSTOMER	08-Jun-2008 10:04	1675.0 M	1565.3 M

**Integrated Hole/Cement Volume Summary**

Hole Volume = 9.02 M3  
Cement Volume = 3.87 M3 (assuming 9.63 IN casing O.D.)  
Computed from 1675.0 M to 1565.5 M using data channel(s) HCAL

# OP System Version: 15C0-309

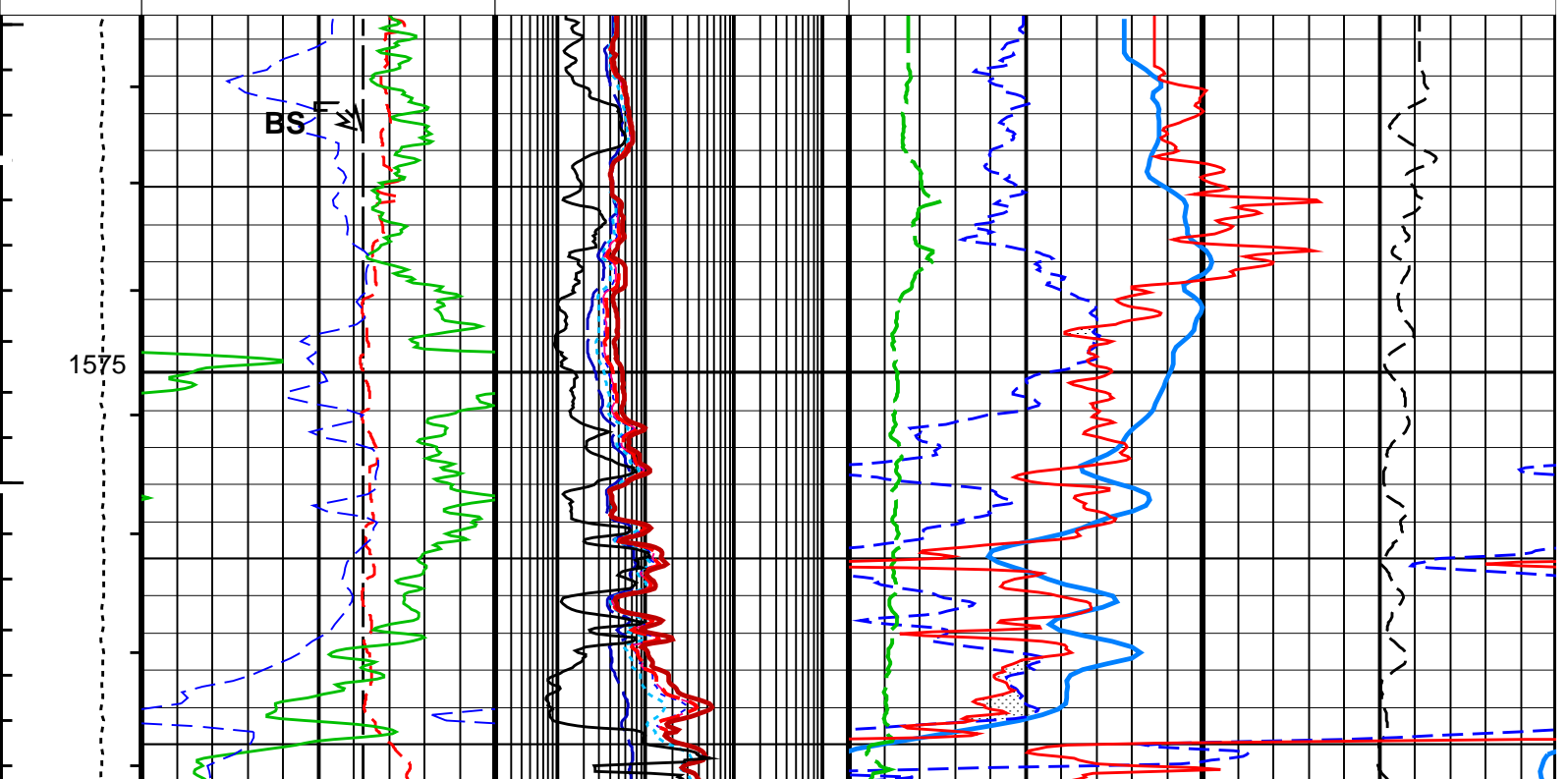
MCM

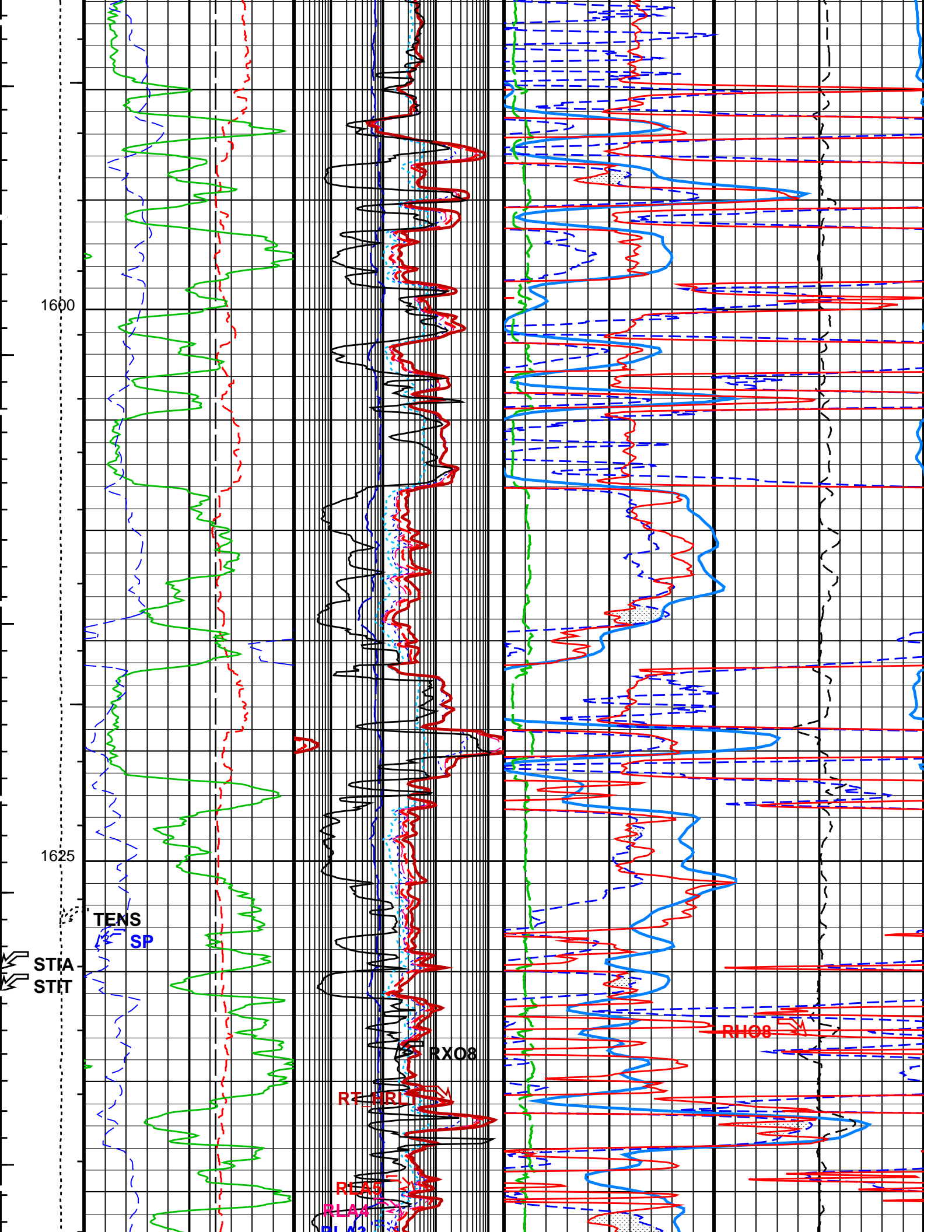
DSLTL-FTB	SRPC-3546-Q1_2008_OP15	HRLT-B	SRPC-3546-Q1_2008_OP15
HILTB-FTB	SRPC-3546-Q1_2008_OP15	DTC-H	SRPC-3546-Q1_2008_OP15
BSP	SRPC-3546-Q1_2008_OP15		

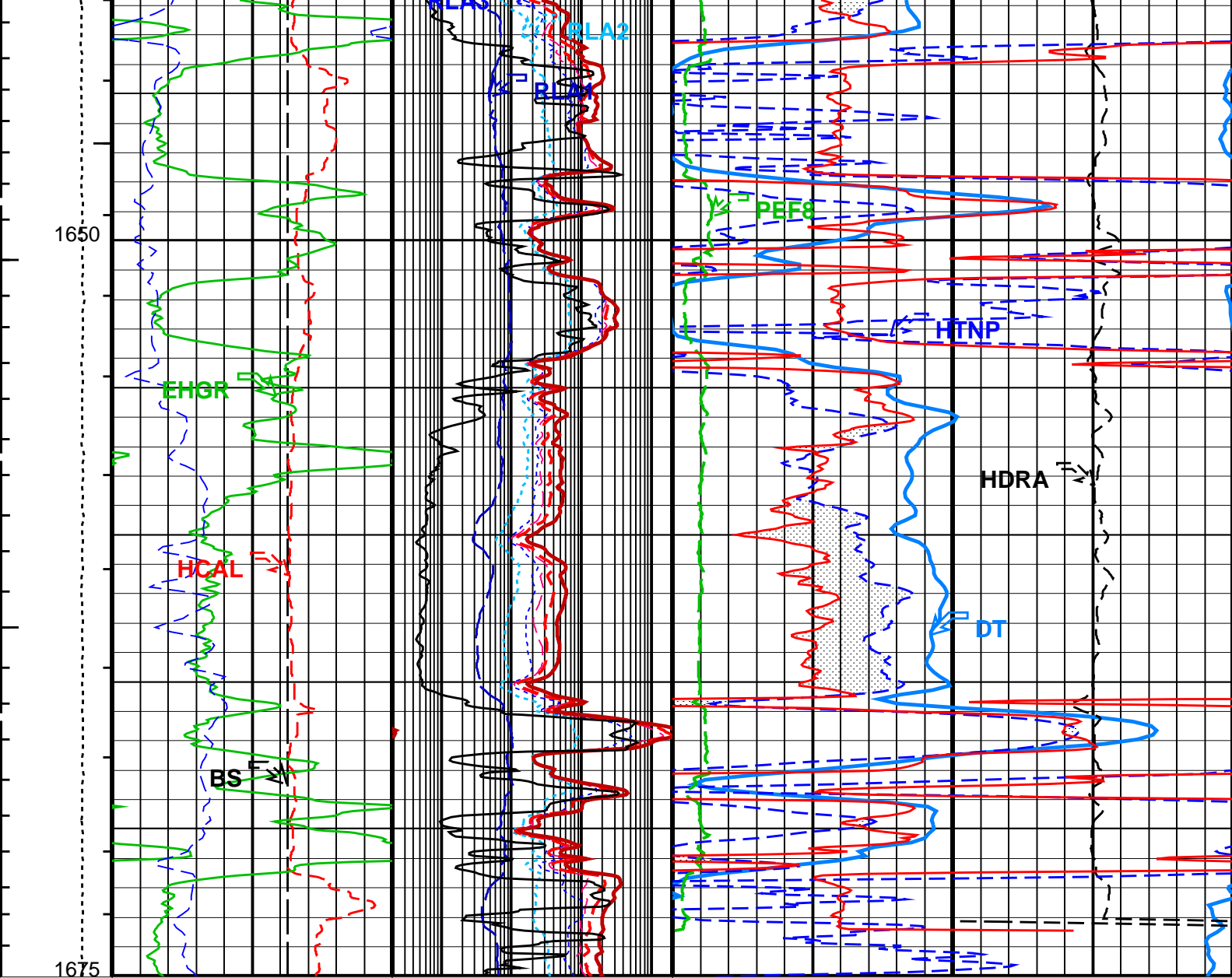
## PIP SUMMARY

- └ Integrated Hole Volume Minor Pip Every 0.1 M3
- └ Integrated Hole Volume Major Pip Every 1 M3
  - └ Integrated Cement Volume Minor Pip Every 0.1 M3
  - └ Integrated Cement Volume Major Pip Every 1 M3
- Time Mark Every 60 S

		<b>HRLT True Resistivity (RT_</b> <b>HRLT)</b> <b>0.2 (OHMM) 2000</b>			
		<b>H. Res. Invaded Zone</b> <b>Resistivity (RXO8)</b> <b>0.2 (OHMM) 2000</b>			
	Area From HCAL to BS	<b>HRLT Resistivity 5 (RLA5)</b> <b>0.2 (OHMM) 2000</b>		Sand From RHO8 to HTNP	
Tool/Tot. Drag From D4T to STIA	SP (SP) (MV) -80 20	<b>HRLT Resistivity 4 (RLA4)</b> <b>0.2 (OHMM) 2000</b>		<b>H. Res. Formation Density (RHO8)</b> 1.95 (G/C3) 2.95	
Cable Drag From D4T to STIT	Gamma Ray (EHGR) (GAPI) 0 200	<b>HRLT Resistivity 3 (RLA3)</b> <b>0.2 (OHMM) 2000</b>		H. Res. Formation Pe (PEF8) 0 (---- 10)	Density Correction (HDRA) -0.25 (G/C3) 0.25
Stuck Stretch (STIT) 0 (M) 20	HILT Caliper (HCAL) (IN) 6 16	<b>HRLT Resistivity 2 (RLA2)</b> <b>0.2 (OHMM) 2000</b>		<b>HiRes TNPH (HTNP)</b> 0.45 (V/V) -0.15	
Tension (TENS) (LBF) 0 5000	Bit Size (BS) (IN) 6 16	<b>HRLT Resistivity 1 (RLA1)</b> <b>0.2 (OHMM) 2000</b>		<b>Delta-T (DT)</b> 140 (US/F) 40	







Tension (TENS) (LBF)	6	16	0.2	2000	140	40
Bit Size (BS) (IN)	6	16	0.2	2000	0.45	-0.15
Stuck Stretch (STIT) (M)	6	16	0.2	2000	0.45	-0.15
Cable Drag From D4T to STIT	0	200	0.2	2000	0	-0.25
Tool/Tot. Drag From D4T to STIA	-80	20	0.2	2000	1.95	2.95
Area From HCAL to BS	0.2	2000	0.2	2000	1.95	2.95
H. Res. Invaded Zone Resistivity (RXO8)	0.2	2000	0.2	2000	1.95	2.95
HRLT True Resistivity (RT_	0.2	2000	0.2	2000	1.95	2.95



PIP SUMMARY

- Integrated Hole Volume Minor Pip Every 0.1 M3

Integrated Hole Volume Major Pip Every 1 M3

Integrated Cement Volume Minor Pip Every 0.1 M3

Integrated Cement Volume Major Pip Every 1 M3

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
DSLTLT-FTB: Digitizing Sonic Logging Tool			
	Telemetry Mode	DSLTLT_FTB	
	DSLTLT Firing Mode	SDDLTLB	
AGC	Automatic Gain Control Status	ON	
AMSG	Auxiliary Minimum Sliding Gate	140	US
CBAF	CBL Adjustment Factor	1	
CBLG	CBL Gate Width	45	US
CDTS	C-Delta-T Shale	100	US/F
DDEL	Digitizing Delay	0	US
DETE	Delta-T Detection	E2	
DFAD	Digital First Arrival Detection Switch	HOST	
DIVL	DSLTLT Depth Sampling Interval	20	
DRCS	DSLTLT DLIS Recording Size	180	
DSIN	Digitizing Sample Interval	10	
DTCM	Delta-T Computation Mode	FULL	
DTF	Delta-T Fluid	189	US/F
DTFS	DSLTLT Telemetry Frame Size	396	
DTM	Delta-T Matrix	56	US/F
DWCO	Digitizing Word Count	180	
GAI	Manual Gain	40	
ITTS	Integrated Transit Time Source	DT	
MAHTR	Manual High Threshold Reference	120	
MGAI	Maximum Gain	60	
MIGA	Minimum Gain	1	
MNHTR	Minimum High Threshold Reference	100	
MODE	Sonic Firing Mode	SDDLTLB	
NMSG	Near Minimum Sliding Gate	140	US
NMXG	Near Maximum Sliding Gate	970	US
NUMP	Number of Detection Passes	2	
RATE	Firing Rate	R15	
RDFA	Reset DFAD	OFF	
SDTH	Switch Down Threshold	20000	
SFAF	Sonic Formation Attenuation Factor	10	DB/M
SGAD	Sliding Gate Status	ON	
SGAI	Selectable Acquisition Gain	AUTO	
SGCL	Sliding Gate Closing Delta-T	140	US/F
SGCW	Sliding Gate Closing Width	25	US
SGDT	Sliding Gate Delta-T	40	US/F
SGW	Sliding Gate Width	110	US
SLEV	Signal Level for AGC	5000	
SPFS	Sonic Porosity Formula	RAYMER_HUNT	
SPSO	Sonic Porosity Source	DT	
SUTH	Switch Up Threshold	1000	
VDLG	VDL Manual Gain	40	
WAGC	Waveform AGC Allow/Disallow	OFF	
WGAJ	Waveform Manual Gain	20	
WGDT	Waveform Gain Delta-T	240	US/F
WGIN	Waveform Gain Interval	2540	US
WMOD	Waveform Firing Mode	FULL	
HRLTLTB: High Resolution Laterolog Array - E			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	56	DEGC
CALSTAT	HRLTLTB Calibration Status	SHALLOW_DONE	
CALTEMP	HRLTLTB Calibration Temperature	47.801	DEGC
FREQ0	HRLTLT Frequency Index for Mode 0	32	
FREQ1	HRLTLT Frequency Index for Mode 1	128	
FREQ2	HRLTLT Frequency Index for Mode 2	104	
FREQ3	HRLTLT Frequency Index for Mode 3	86	
FREQ4	HRLTLT Frequency Index for Mode 4	56	
FREQ5	HRLTLT Frequency Index for Mode 5	44	
FREQ6	HRLTLT Frequency Index for Mode 6	116	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	Barite Mud Switch	NOBARITE	
KFAC_HRLTLTB	HRLTLT K Factor Option	SONDE	
LOPCOFF_9	HRLTLT Loop Coefficient for Shallow Modes	LOW	

LOOPCOEF_3	Loop Coefficient for Shallow Modes	LOW	
LOOPMOD0	HRLT Mode 0 Loop Mode	AUTO	
LOOPMOD1	HRLT Mode 1 Loop Mode	AUTO	
LOOPMOD2	HRLT Mode 2 Loop Mode	AUTO	
LOOPMOD3	HRLT Mode 3 Loop Mode	AUTO	
LOOPMOD4	HRLT Mode 4 Loop Mode	AUTO	
LOOPMOD5	HRLT Mode 5 Loop Mode	AUTO	
LOOPMOD6	HRLT Mode 6 Loop Mode	AUTO	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
PROCINV	Inversion Selection	ON	
PROCMFL	Inversion Micro-Resistivity Selection	NO_EXTERNAL_RXO	
PROCMSO	Mechanical Standoff Fin Size	2.5	IN
PROCRM	Processing Mud Resistivity Select	HRLT_Compute	
PROCSP0	Sonde Position	Eccentered	
SHT	Surface Hole Temperature	20	DEGC
HILTB-FTB: High resolution Integrated Logging Tool-DTS			
BHFL	Borehole Fluid Type	WATER	
BHFL_TLD	HILT Nuclear Mud Base	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	56	DEGC
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DHC	Density Hole Correction	BS	
DPPM	Density Porosity Processing Mode	HIRS	
EXSICL	External Shale Indicator Clean Value	20	
EXSISH	External Shale Indicator Shale Value	150	
FD	Fluid Density	1	G/C3
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
FPHI	Form Factor Porosity Source	DPHZ	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCLF	Germany Coal-like Formation Option	NO	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HACPP	Accelerometer PROM Presence	PRESENT_FILE	
HART	Accelerometer Reference Temperature	20	DEGC
HDCOD	HILT Density Coal detection	2	G/C3
HDSAD	HILT Density Salt detection	2.1	G/C3
HILT_GAS_DENSITY	HILT Gas Downhole Density	0	G/C3
HILT_GAS_OPTION	HILT Gas Computation Option	OFF	
HNCOD	HILT Neutron Coal detection	45	PU
HNSAD	HILT Neutron Salt detection	5	PU
HPHIECUT	HILT effective Porosity Cutoff	5	PU
HSCO	Hole Size Correction Option	YES	
HSIS	HILT Shale Indicator Selection	GR	
HSSO	HRDD Nuclear Source Strength Option	NORMAL	
HSWCUT	HILT Water Saturation from AITH cutoff	50	%
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	BARI	
MDEN	Matrix Density	2.71	G/C3
MHC0	MCFL B0 Contrast Correction Coefficient	2.2e-005	OHMS
MHC1	MCFL B1 Contrast Correction Coefficient	3.2e-005	OHMS
MHCC	MCFL High Contrast Correction Switch	NO	
MPOF	MCFL Processing Operation Mode	ON	
MWCO	Mud Weight Correction Option	YES	
NAAC	HRDD APS Activation Correction	OFF	
NMT	HILT Nuclear Mud Type	BARITE	
NPRM	HRDD Processing Mode	HiRes	
NSAR	HRDD Depth Sampling Rate	1	IN
PEA_FILTER	PEA Filter	NO_FILTER	
PEFC_FILTER	PEFC Filter	NO_FILTER	
PHIMAX	HILT max porosity	35	PU
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SEXP_HILT	HILT Saturation Exponent	2	
SHT	Surface Hole Temperature	20	DEGC
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	NO	
BSP: Bridle SP			
SPNV	SP Next Value	0	MV
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	56	DEGC
FCD	Future Casing (Outer) Diameter	9.625	IN
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	

HVCS	Integrated Hole Volume Caliper Selection	HCAL	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	20	DEGC
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	1.524	M
TDD	Total Depth - Driller	1766.00	M
TDL	Total Depth - Logger	1760.00	M
System and Miscellaneous			
ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	12.250	IN
BSAL	Borehole Salinity	63000.00	PPM
CSIZ	Current Casing Size	13.375	IN
CWEI	Casing Weight	68.00	LB/F
DFD	Drilling Fluid Density	1.12	G/C3
DO	Depth Offset for Playback	1.9	M
FLEV	Fluid Level	-50000.00	M
MST	Mud Sample Temperature	20.20	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	RECOMPUTE	
RMFS	Resistivity of Mud Filtrate Sample	0.0994	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	1760	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: HIRES\_SON\_RES\_DENS\_NEU\_GR\_SP\_D200 Vertical Scale: 1:200 Graphics File Created: 08-Jun-2008 10:04

## OP System Version: 15C0-309

MCM

DSL-FTB	SRPC-3546-Q1_2008_OP15	HRLT-B	SRPC-3546-Q1_2008_OP15
HILTB-FTB	SRPC-3546-Q1_2008_OP15	DTC-H	SRPC-3546-Q1_2008_OP15
BSP	SRPC-3546-Q1_2008_OP15		

### Input DLIS Files

DEFAULT	SONIC_HRLA_TLD_MCFL_009LUP FN:16	PRODUCER	06-Jun-2008 11:06	1700.8 M	1553.9 M
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### Output DLIS Files

DEFAULT	SONIC_HRLA_TLD_MCFL_014PUP FN:14	PRODUCER	08-Jun-2008 10:04		
CUSTOMER	SONIC_HRLA_TLD_MCFL_014PUC FN:15	CUSTOMER	08-Jun-2008 10:04		

**Schlumberger**

**Standard Resolution Pass**  
**1:200**

MAXIS Field Log

Company: 3D Oil Limited

Well: Wardie-1

### Input DLIS Files

DEFAULT	SONIC_HRLA_TLD_MCFL_014LUP FN:31	PRODUCER	06-Jun-2008 11:07	1761.0 M	689.2 M
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### Output DLIS Files

DEFAULT	SONIC_HRLA_TLD_MCFL_017PUP FN:20	PRODUCER	08-Jun-2008 10:13	1761.0 M	1298.3 M
CUSTOMER	SONIC_HRLA_TLD_MCFL_017PUC FN:21	CUSTOMER	08-Jun-2008 10:13	1761.0 M	1298.3 M

## Integrated Hole/Cement Volume Summary

Hole Volume = 39.85 M3

Cement Volume = 18.18 M3 (assuming 9.63 IN casing O.D.)

Computed from 1759.9 M to 1298.4 M using data channel(s) HCAL

# OP System Version: 15C0-309

MCM

DSLT-FTB  
HILTB-FTB  
BSP

SRPC-3546-Q1\_2008\_OP15  
SRPC-3546-Q1\_2008\_OP15  
SRPC-3546-Q1\_2008\_OP15

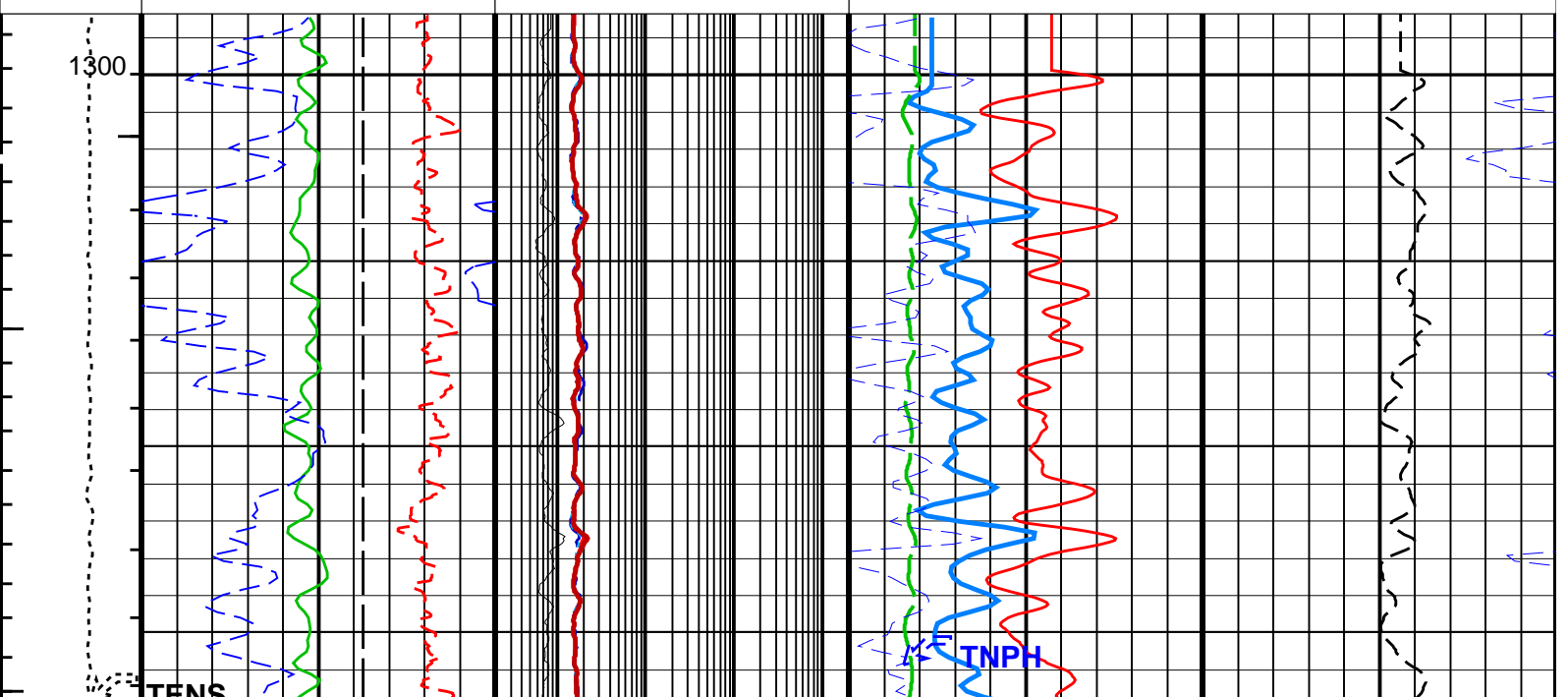
HRLT-B  
DTC-H

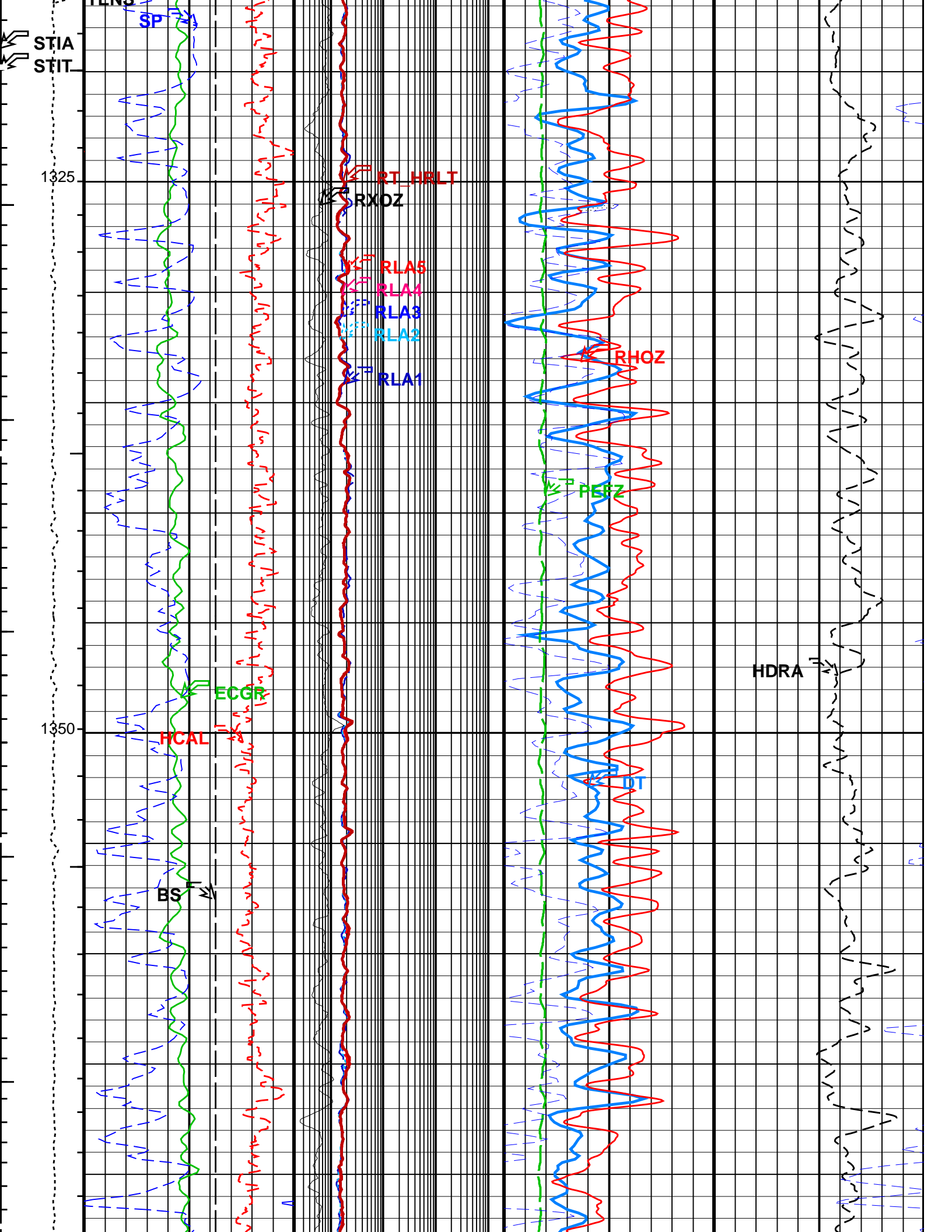
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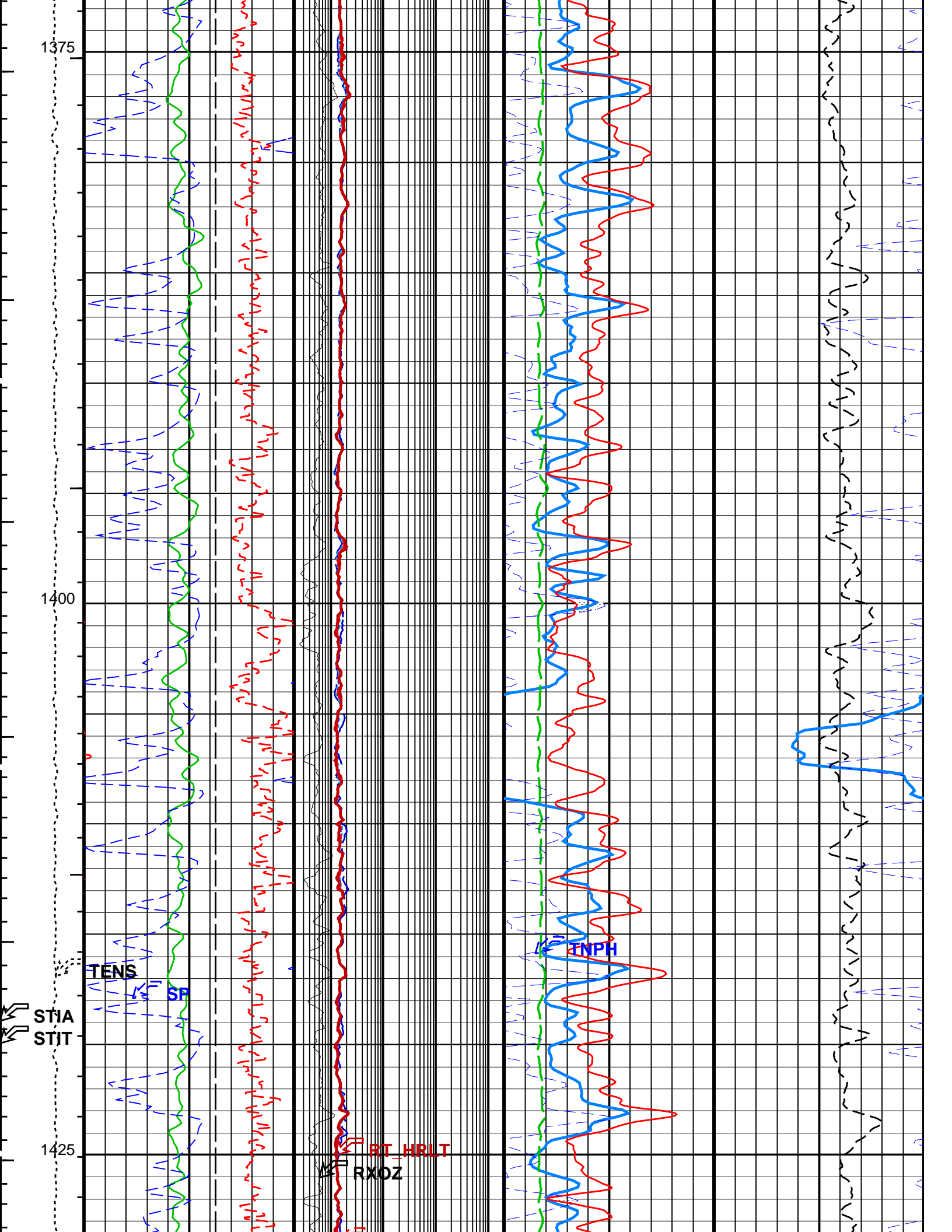
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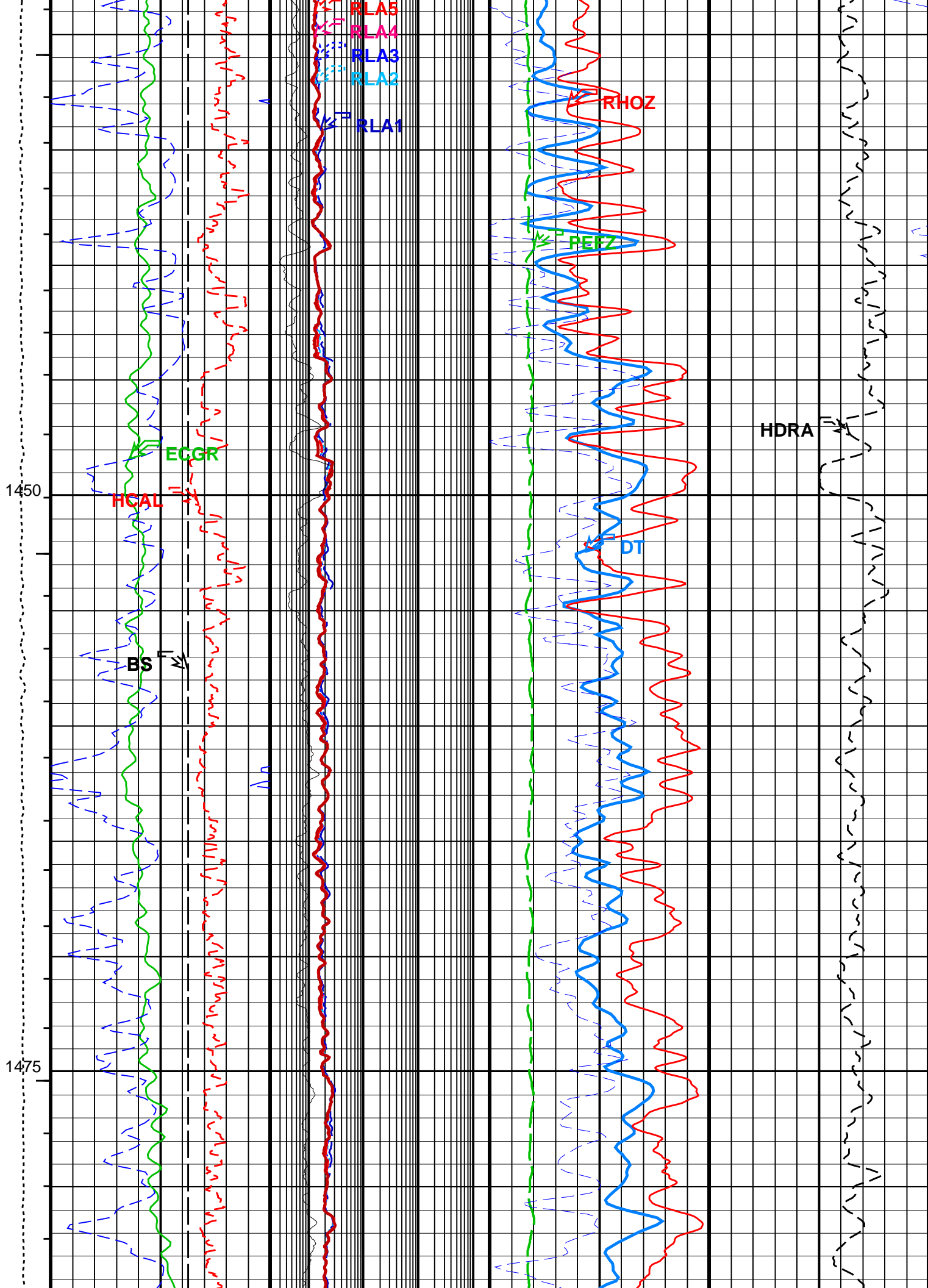
- └ Integrated Hole Volume Minor Pip Every 0.1 M3
- └ Integrated Hole Volume Major Pip Every 1 M3
  - └ Integrated Cement Volume Minor Pip Every 0.1 M3
  - └ Integrated Cement Volume Major Pip Every 1 M3
- Time Mark Every 60 S

		HRLT True Resistivity (RT_ HRLT)			
		0.2	(OHMM)	2000	
		Std. Res. Invaded Zone Resistivity (RXOZ)			
		0.2	(OHMM)	2000	
Stuck Tool Indicator, Adjusted (STIA)	Area From HCAL to BS	HRLT Resistivity 5 (RLA5)		Sand From RHOZ to TNPH	
0 (M) 20		0.2	(OHMM)	2000	
Tool/Tot. Drag From D4T to STIA	SP (SP) (MV)	HRLT Resistivity 4 (RLA4)		Env.Corr.Thermal Neutron Porosity (TNPH)	
-80	20	0.2	(OHMM)	2000	0.45 -0.15
Cable Drag From D4T to STIT	Gamma Ray (ECGR) (GAPI)	HRLT Resistivity 3 (RLA3)		Std. Res. Formation Density (RHOZ)	
0	200	0.2	(OHMM)	2000	1.95 2.95
Stuck Stretch (STIT)	HILT Caliper (HCAL) (IN)	HRLT Resistivity 2 (RLA2)		Std. Res. Formation Pe (PEFZ)	Density Correction (HDRA)
6	16	0.2	(OHMM)	2000	-0.25 0.25
0 (M) 20		0	(-----)	10	
Tension (TENS) (LBF)	Bit Size (BS) (IN)	HRLT Resistivity 1 (RLA1)		Delta-T (DT)	
6	16	0.2	(OHMM)	2000	140 40
0	5000				

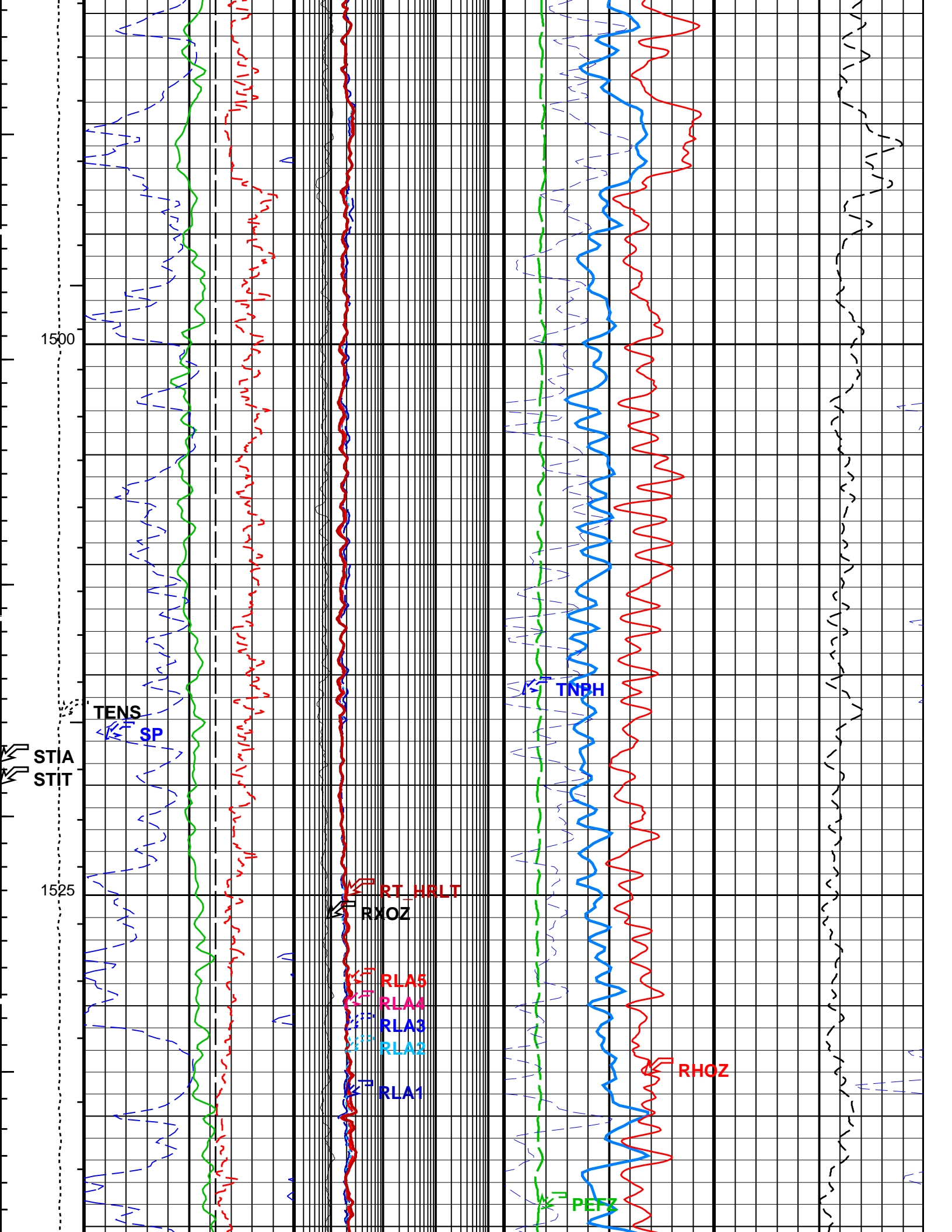




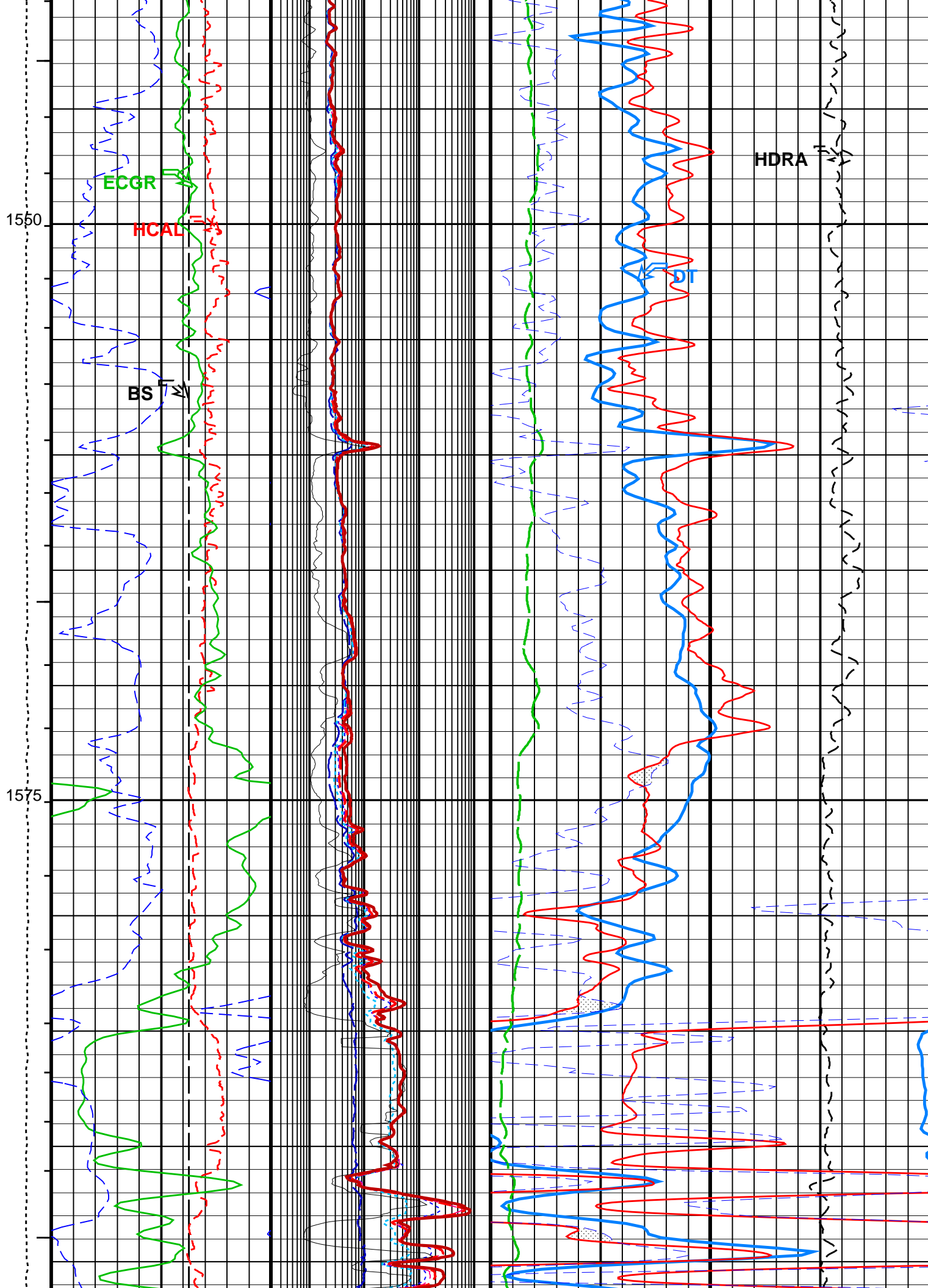


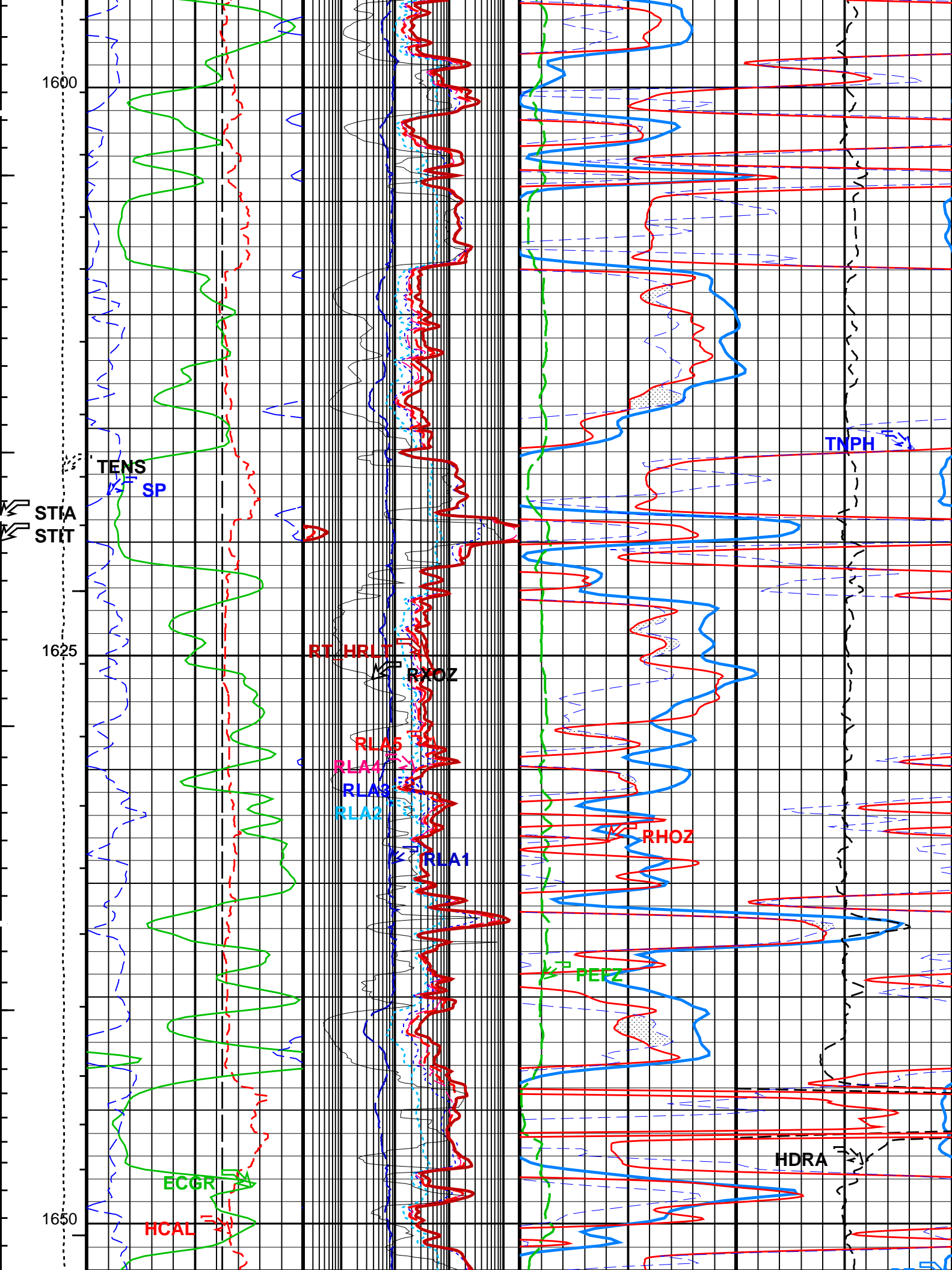


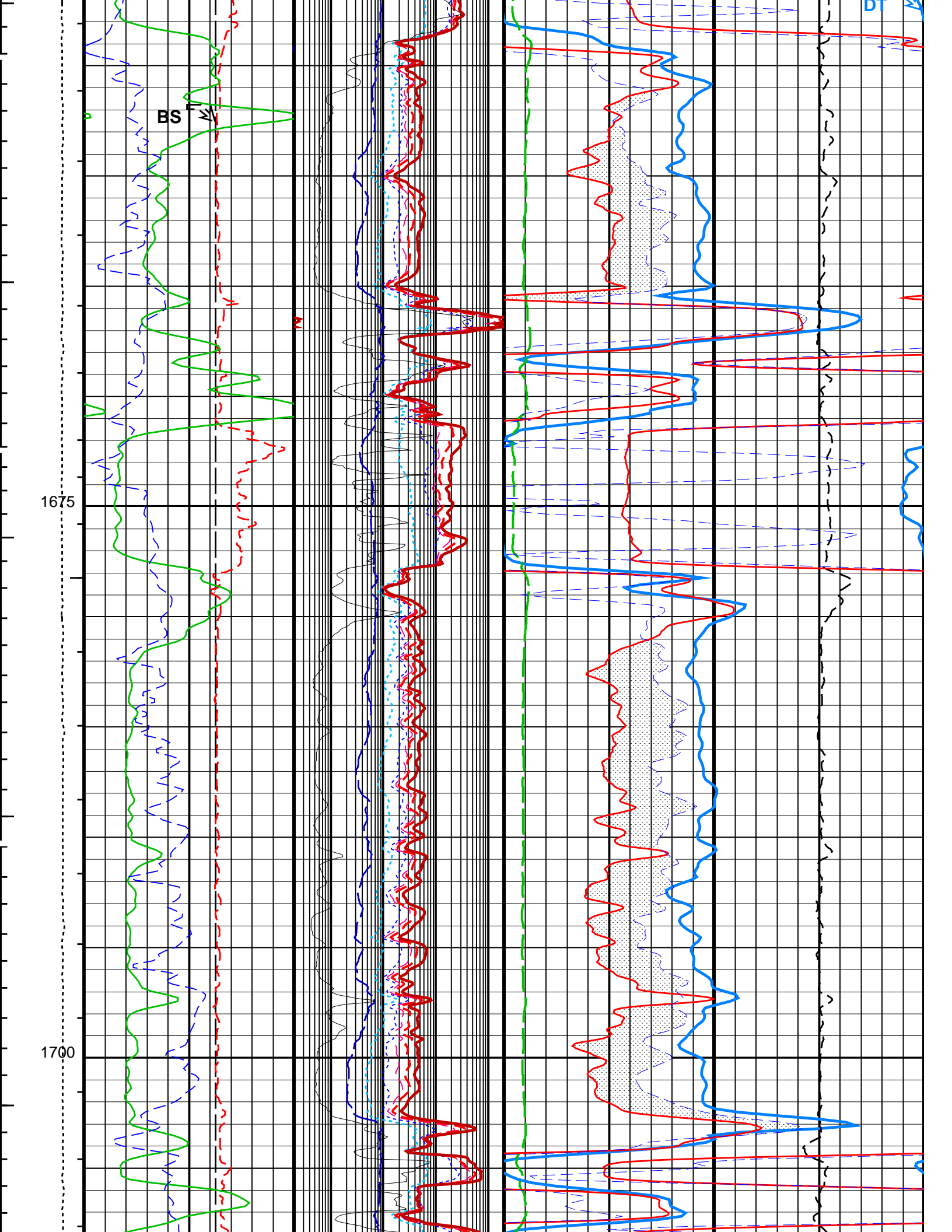


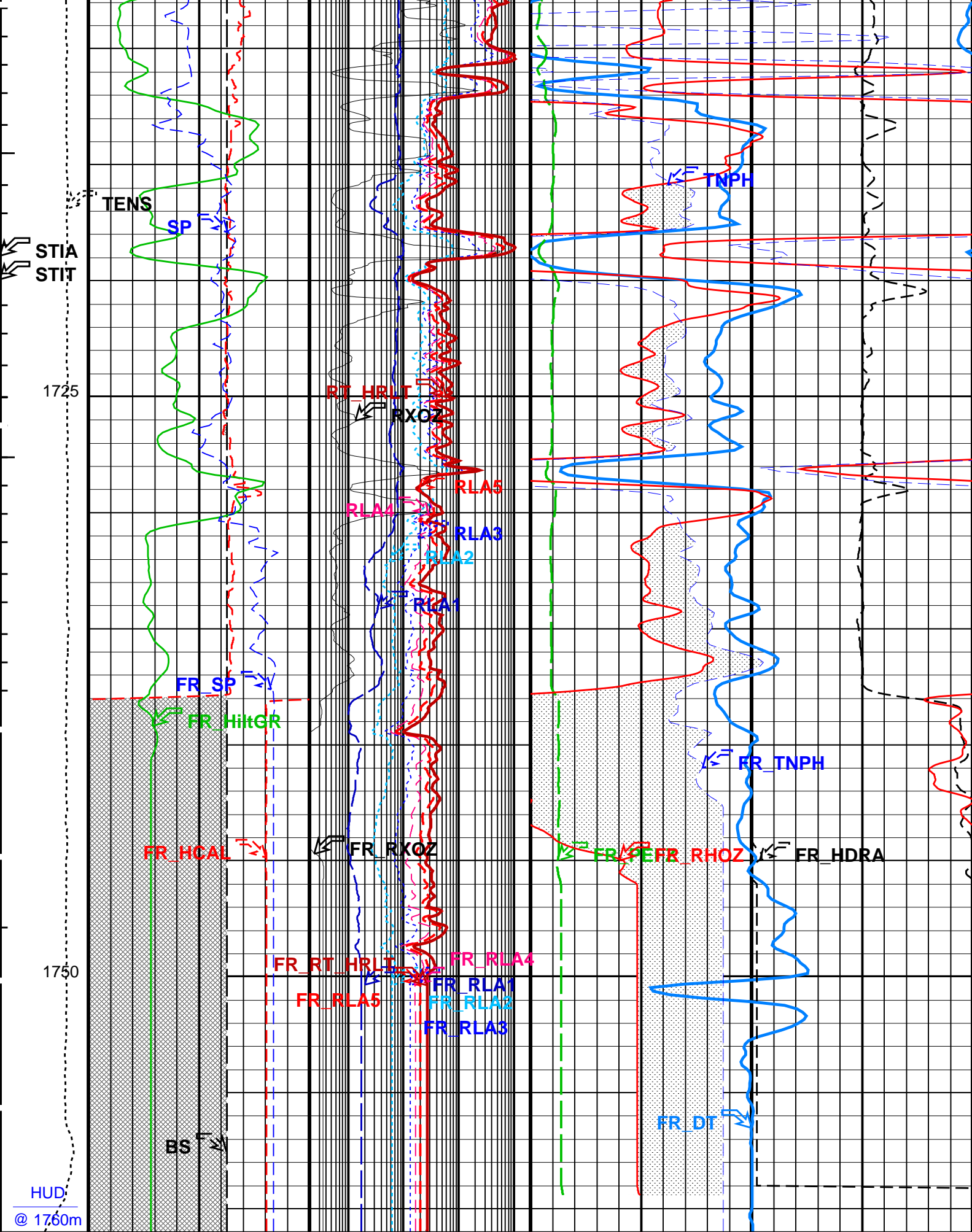












5000					
Stuck Stretch (STIT)	6	HILT Caliper (HCAL) (IN)	16	HRLT Resistivity 2 (RLA2) (OHMM)	2000
0 (M) 20				Std. Res. Formation Pe (PEFZ)	0 (---- 10)
Cable Drag From D4T to STIT	0	Gamma Ray (ECGR) (GAPI)	200	HRLT Resistivity 3 (RLA3) (OHMM)	2000
				Std. Res. Formation Density (RHOZ) (G/C3)	1.95 2.95
Tool/Tot. Drag From D4T to STIA	-80	SP (SP) (MV)	20	HRLT Resistivity 4 (RLA4) (OHMM)	2000
				Env.Corr.Thermal Neutron Porosity (TNPH) (V/V)	0.45 -0.15
Stuck Tool Indicator, Adjusted (STIA)		Area From HCAL to BS		HRLT Resistivity 5 (RLA5) (OHMM)	2000
0 (M) 20					
				Std. Res. Invaded Zone Resistivity (RXOZ) (OHMM)	2000
				HRLT True Resistivity (RT_HRLT) (OHMM)	2000

### PIP SUMMARY

- └ Integrated Hole Volume Minor Pip Every 0.1 M3
- └ Integrated Hole Volume Major Pip Every 1 M3
  - └ Integrated Cement Volume Minor Pip Every 0.1 M3
  - └ Integrated Cement Volume Major Pip Every 1 M3
- ▣ Time Mark Every 60 S

## Parameters

DLIS Name	Description	Value
DSLT-FTB: Digitizing	Sonic Logging Tool	DSLC_FTB
	Telemetry Mode	SDDB
	DSLT Firing Mode	ON
AGC	Automatic Gain Control Status	140 US
AMSG	Auxiliary Minimum Sliding Gate	1
CBAF	CBL Adjustment Factor	45 US
CBLG	CBL Gate Width	100 US/F
CDTS	C-Delta-T Shale	0 US
DDEL	Digitizing Delay	E2
DETE	Delta-T Detection	HOST
DFAD	Digital First Arrival Detection Switch	20
DIVL	DSLT Depth Sampling Interval	180
DRCS	DSLT DLIS Recording Size	10
DSIN	Digitizing Sample Interval	FULL
DTCM	Delta-T Computation Mode	189 US/F
DTF	Delta-T Fluid	396
DTFS	DSLC Telemetry Frame Size	56 US/F
DTM	Delta-T Matrix	180
DWCO	Digitizing Word Count	40
GAI	Manual Gain	DT
ITTS	Integrated Transit Time Source	120
MAHTR	Manual High Threshold Reference	60
MGAI	Maximum Gain	1
MIGA	Minimum Gain	100
MNHTR	Minimum High Threshold Reference	SDDB
MODE	Sonic Firing Mode	140 US
NMSG	Near Minimum Sliding Gate	970 US
NMXG	Near Maximum Sliding Gate	2
NUMP	Number of Detection Passes	R15
RATE	Firing Rate	OFF
RDFA	Reset DFAD	20000
SDTH	Switch Down Threshold	10 DB/M
SFAF	Sonic Formation Attenuation Factor	ON
SGAD	Sliding Gate Status	AUTO
SGAI	Selectable Acquisition Gain	



SGCL	Sliding Gate Closing Delta-T	25	US
SGCW	Sliding Gate Closing Width	40	US
SGDT	Sliding Gate Delta-T	110	US/F
SGW	Sliding Gate Width	5000	US
SLEV	Signal Level for AGC	RAYMER_HUNT	
SPFS	Sonic Porosity Formula	DT	
SPSO	Sonic Porosity Source	1000	
SUTH	Switch Up Threshold	40	
VDLG	VDL Manual Gain	OFF	
WAGC	Waveform AGC Allow/Disallow	20	
WGAJ	Waveform Manual Gain	240	US/F
WGDT	Waveform Gain Delta-T	2540	US
WGIN	Waveform Gain Interval	FULL	
WMOD	Waveform Firing Mode		
HRLT-B: High Resolution Laterolog Array - E			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	56	DEGC
CALSTAT	HRLTB Calibration Status	SHALLOW_DONE	
CALTEMP	HRLTB Calibration Temperature	47.801	DEGC
FREQ0	HRLT Frequency Index for Mode 0	32	
FREQ1	HRLT Frequency Index for Mode 1	128	
FREQ2	HRLT Frequency Index for Mode 2	104	
FREQ3	HRLT Frequency Index for Mode 3	86	
FREQ4	HRLT Frequency Index for Mode 4	56	
FREQ5	HRLT Frequency Index for Mode 5	44	
FREQ6	HRLT Frequency Index for Mode 6	116	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	Barite Mud Switch	NOBARITE	
KFAC_HRLT	HRLT K Factor Option	SONDE	
LOOPCOEF_S	HRLT Loop Coefficient for Shallow Modes	LOW	
LOOPMOD0	HRLT Mode 0 Loop Mode	AUTO	
LOOPMOD1	HRLT Mode 1 Loop Mode	AUTO	
LOOPMOD2	HRLT Mode 2 Loop Mode	AUTO	
LOOPMOD3	HRLT Mode 3 Loop Mode	AUTO	
LOOPMOD4	HRLT Mode 4 Loop Mode	AUTO	
LOOPMOD5	HRLT Mode 5 Loop Mode	AUTO	
LOOPMOD6	HRLT Mode 6 Loop Mode	AUTO	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
PROGINV	Inversion Selection	ON	
PROCMFL	Inversion Micro-Resistivity Selection	NO_EXTERNAL_RXO	
PROCMSO	Mechanical Standoff Fin Size	2.5	IN
PROCRM	Processing Mud Resistivity Select	HRLT_Compute	
PROCSP0	Sonde Position	Eccentered	
SHT	Surface Hole Temperature	20	DEGC
HILTB-FTB: High resolution Integrated Logging Tool-DTS			
BHFL	Borehole Fluid Type	WATER	
BHFL_TLD	HILT Nuclear Mud Base	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	56	DEGC
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DHC	Density Hole Correction	BS	
DPPM	Density Porosity Processing Mode	HIRS	
EXSICL	External Shale Indicator Clean Value	20	
EXSISH	External Shale Indicator Shale Value	150	
FD	Fluid Density	1	G/C3
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
FPHI	Form Factor Porosity Source	DPHZ	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCLF	Germany Coal-like Formation Option	NO	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HACPP	Accelerometer PROM Presence	PRESENT_FILE	
HART	Accelerometer Reference Temperature	20	DEGC
HDCOD	HILT Density Coal detection	2	G/C3
HDSAD	HILT Density Salt detection	2.1	G/C3
HILT_GAS_DENSITY	HILT Gas Downhole Density	0	G/C3
HILT_GAS_OPTION	HILT Gas Computation Option	OFF	
HNCOD	HILT Neutron Coal detection	45	PU
HNSAD	HILT Neutron Salt detection	5	PU
HPHIECUT	HILT effective Porosity Cutoff	5	PU
HSCO	Hole Size Correction Option	YES	
HSIS	HILT Shale Indicator Selection	GR	
HSSO	HRDD Nuclear Source Strength Option	NORMAL	
HSWCUT	HILT Water Saturation from AITH cutoff	50	%
ISSBAR	Barite Mud Switch	NOBARITE	

MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	BARI	
MDEN	Matrix Density	2.71	G/C3
MHC0	MCFL B0 Contrast Correction Coefficient	2.2e-005	OHMS
MHC1	MCFL B1 Contrast Correction Coefficient	3.2e-005	OHMS
MHCC	MCFL High Contrast Correction Switch	NO	
MPOF	MCFL Processing Operation Mode	ON	
MWCO	Mud Weight Correction Option	YES	
NAAC	HRDD APS Activation Correction	OFF	
NMT	HILT Nuclear Mud Type	BARITE	
NPRM	HRDD Processing Mode	HiRes	
NSAR	HRDD Depth Sampling Rate	1	IN
PEA_FILTER	PEA Filter	NO_FILTER	
PEFC_FILTER	PEFC Filter	NO_FILTER	
PHIMAX	HILT max porosity	35	PU
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SEXP_HILT	HILT Saturation Exponent	2	
SHT	Surface Hole Temperature	20	DEGC
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	NO	
BSP: Bridle SP			
SPNV	SP Next Value	0	MV
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	56	DEGC
FCD	Future Casing (Outer) Diameter	9.625	IN
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HVCS	Integrated Hole Volume Caliper Selection	HCAL	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	20	DEGC
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	1.524	M
TDD	Total Depth - Driller	1766.00	M
TDL	Total Depth - Logger	1760.00	M
System and Miscellaneous			
ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	12.250	IN
BSAL	Borehole Salinity	63000.00	PPM
CSIZ	Current Casing Size	13.375	IN
CWEI	Casing Weight	68.00	LB/F
DFD	Drilling Fluid Density	1.12	G/C3
DO	Depth Offset for Playback	0.0	M
DORL	Depth Offset for Repeat Analysis	0.0	M
FLEV	Fluid Level	-50000.00	M
MST	Mud Sample Temperature	20.20	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	RECOMPUTE	
RMFS	Resistivity of Mud Filtrate Sample	0.0994	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	1760	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: SON\_RES\_DENS\_NEU\_GR\_SP\_D200    Vertical Scale: 1:200    Graphics File Created: 08-Jun-2008 10:13

## OP System Version: 15C0-309

MCM

DSLT-FTB	SRPC-3546-Q1_2008_OP15	HRLT-B	SRPC-3546-Q1_2008_OP15
HILTB-FTB	SRPC-3546-Q1_2008_OP15	DTC-H	SRPC-3546-Q1_2008_OP15
BSP	SRPC-3546-Q1_2008_OP15		

## Input DLIS Files

DEFAULT	SONIC_HRLA_TLD_MCFL_014LUP FN:31	PRODUCER	06-Jun-2008 11:07	1761.0 M	689.2 M
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## Output DLIS Files

DEFAULT	SONIC_HRLA_TLD_MCFL_017PUP FN:20	PRODUCER	08-Jun-2008 10:13
CUSTOMER	SONIC_HRLA_TLD_MCFL_017PUC FN:21	CUSTOMER	08-Jun-2008 10:13

MAXIS Field Log

Company: 3D Oil Limited

Well: Wardie-1

## Input DLIS Files

DEFAULT	SONIC_HRLA_TLD_MCFL_014LUP FN:31	PRODUCER	06-Jun-2008 11:07	1761.0 M	689.2 M
DEFAULT	SONIC_HRLA_TLD_MCFL_014PUP FN:14	PRODUCER	08-Jun-2008 10:04	1675.0 M	1565.3 M

## Output DLIS Files

DEFAULT	SONIC_HRLA_TLD_MCFL_017PUP FN:20	PRODUCER	08-Jun-2008 10:13
CUSTOMER	SONIC_HRLA_TLD_MCFL_017PUC FN:21	CUSTOMER	08-Jun-2008 10:13

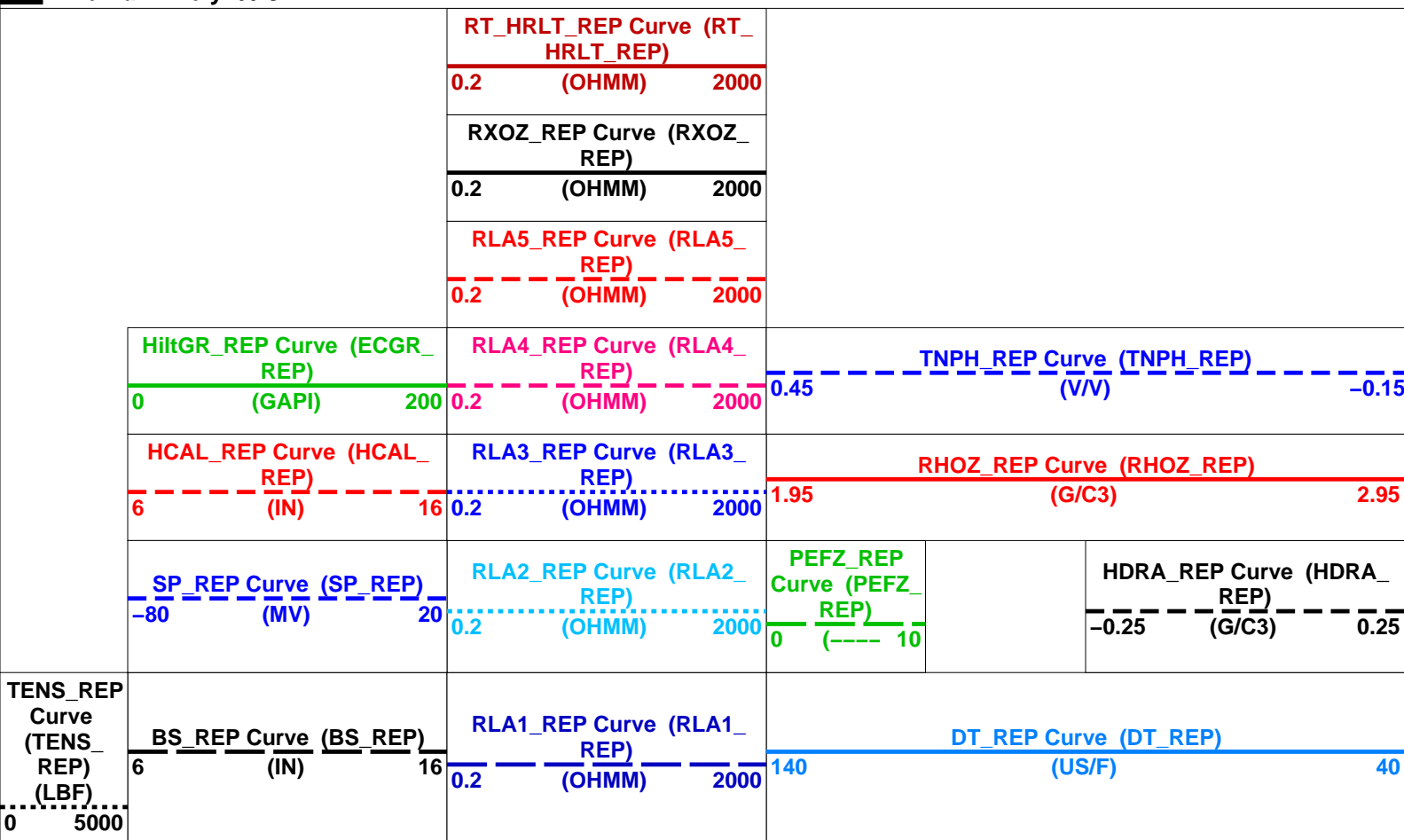
## OP System Version: 15C0-309

MCM

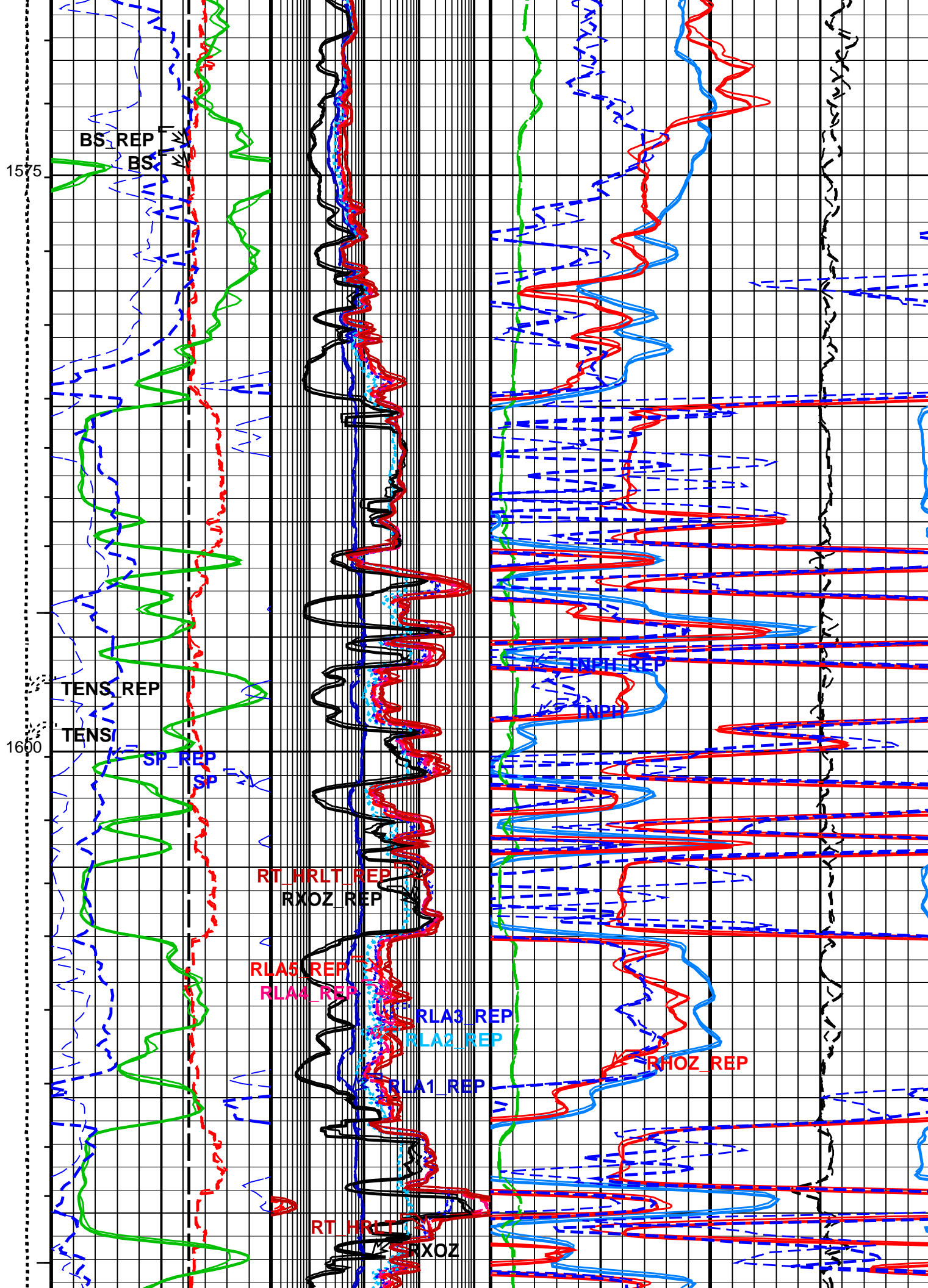
DSLT-FTB	SRPC-3546-Q1_2008_OP15	HRLT-B	SRPC-3546-Q1_2008_OP15
HILTB-FTB	SRPC-3546-Q1_2008_OP15	DTC-H	SRPC-3546-Q1_2008_OP15
BSP	SRPC-3546-Q1_2008_OP15		

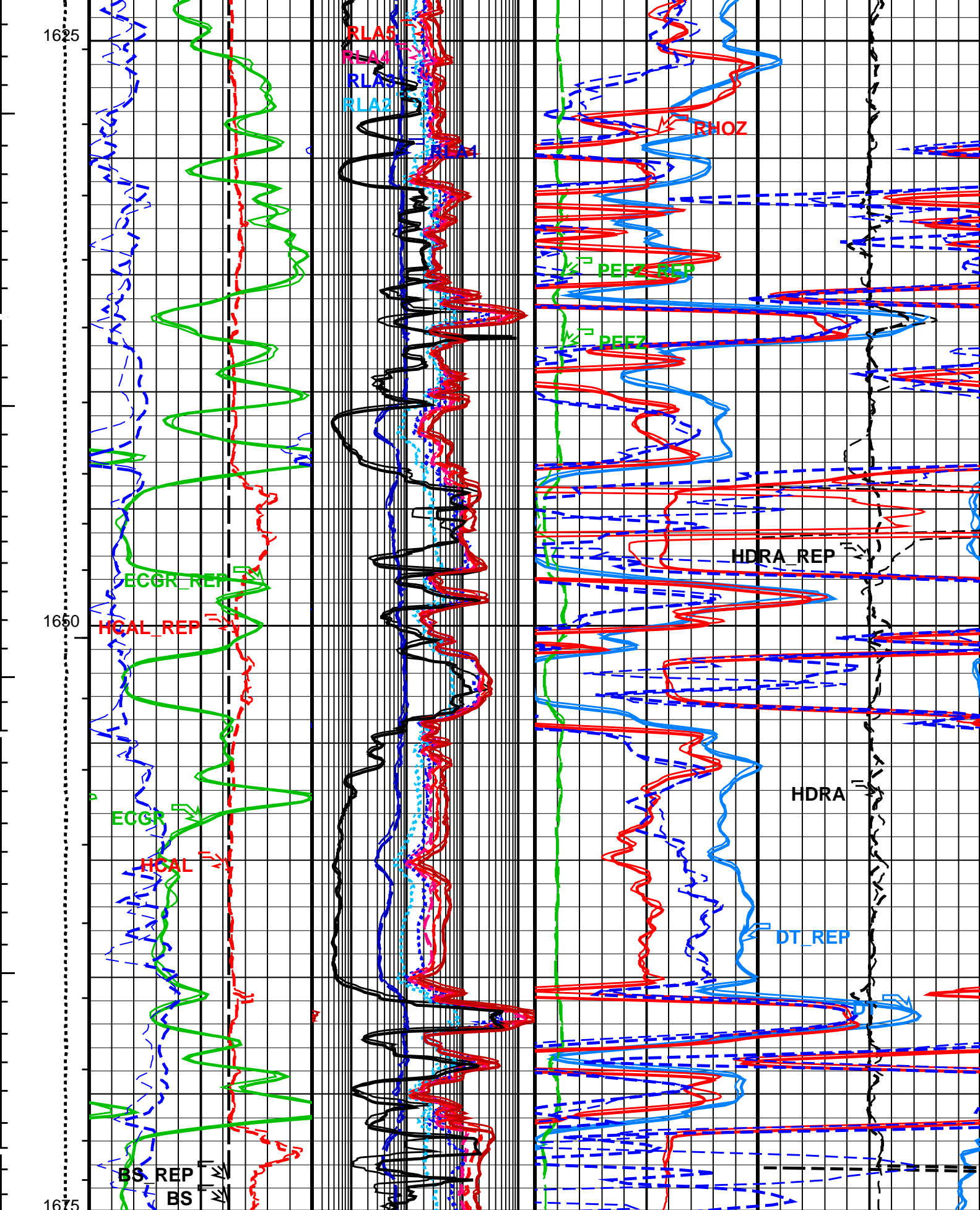
## PIP SUMMARY

- Integrated Hole Volume Minor Pip Every 0.1 M3
- Integrated Hole Volume Major Pip Every 1 M3
  - Integrated Cement Volume Minor Pip Every 0.1 M3
  - Integrated Cement Volume Major Pip Every 1 M3
- Time Mark Every 60 S









TENS_REP Curve (TENS_REP) (LBF)	BS_REP Curve (BS_REP)		RLA1_REP Curve (RLA1_REP)		DT_REP Curve (DT_REP)	
	6	16	0.2	2000	140	40
	(IN)		(OHMM)		(US/F)	

0	5000				
		SP_REP Curve (SP_REP) -80 (MV) 20	RLA2_REP Curve (RLA2_REP) 0.2 (OHMM) 2000	PEFZ_REP Curve (PEFZ_REP) 0 (----) 10	HDRA_REP Curve (HDRA_REP) -0.25 (G/C3) 0.25
		HCAL_REP Curve (HCAL_REP) 6 (IN) 16	RLA3_REP Curve (RLA3_REP) 0.2 (OHMM) 2000	RHOZ_REP Curve (RHOZ_REP) 1.95 (G/C3) 2.95	
		HiltGR_REP Curve (ECGR_REP) 0 (GAPI) 200	RLA4_REP Curve (RLA4_REP) 0.2 (OHMM) 2000	TNPH_REP Curve (TNPH_REP) 0.45 (V/V) -0.15	
			RLA5_REP Curve (RLA5_REP) 0.2 (OHMM) 2000		
			RXOZ_REP Curve (RXOZ_REP) 0.2 (OHMM) 2000		
			RT_HRLT_REP Curve (RT_HRLT_REP) 0.2 (OHMM) 2000		

#### PIP SUMMARY

- └ Integrated Hole Volume Minor Pip Every 0.1 M3
- └ Integrated Hole Volume Major Pip Every 1 M3
  - └ Integrated Cement Volume Minor Pip Every 0.1 M3
  - └ Integrated Cement Volume Major Pip Every 1 M3
- Time Mark Every 60 S

### Parameters

DLIS Name	Description	Value	
DSLTLT-FTB: Digitizing	Sonic Logging Tool	DSLTLT_FTBLT	
	Telemetry Mode	SDDLTLT	
	DSLTLT Firing Mode	ON	
AGC	Automatic Gain Control Status	140	US
AMSG	Auxiliary Minimum Sliding Gate	1	
CBAF	CBL Adjustment Factor	45	US
CBLG	CBL Gate Width	100	US/F
CDTS	C-Delta-T Shale	0	US
DDEL	Digitizing Delay	E2	
DETE	Delta-T Detection	HOST	
DFAD	Digital First Arrival Detection Switch	20	
DIVL	DSLTLT Depth Sampling Interval	180	
DRCS	DSLTLT DLIS Recording Size	10	
DSIN	Digitizing Sample Interval	FULL	
DTCM	Delta-T Computation Mode	189	US/F
DTF	Delta-T Fluid	396	
DTFS	DSLTLT Telemetry Frame Size	56	US/F
DTM	Delta-T Matrix	180	
DWCO	Digitizing Word Count	40	
GAI	Manual Gain	DT	
ITTS	Integrated Transit Time Source	120	
MAHTR	Manual High Threshold Reference	60	
MGAI	Maximum Gain	1	
MIGA	Minimum Gain	100	
MNHTR	Minimum High Threshold Reference	SDDLTLT	
MODE	Sonic Firing Mode	140	US
NMSG	Near Minimum Sliding Gate	970	US
NMXG	Near Maximum Sliding Gate	2	
NUMP	Number of Detection Passes	R15	
RATE	Firing Rate	OFF	
RDFA	Reset DFAD	20000	
SDTH	Switch Down Threshold	10	DB/M
SFAF	Sonic Formation Attenuation Factor	ON	
SGAD	Sliding Gate Status	AUTO	
SGAI	Selectable Acquisition Gain	140	US/F
SGCL	Sliding Gate Closing Delta-T	25	US
SGCW	Sliding Gate Closing Width	40	US/F
SGDT	Sliding Gate Delta-T	110	US
SGW	Sliding Gate Width	5000	
SLEV	Signal Level for AGC		

SPFS	Signal Level for AGC	3000	
SPSO	Sonic Porosity Source	DT	
SUTH	Switch Up Threshold	1000	
VDLG	VDL Manual Gain	40	
WAGC	Waveform AGC Allow/Disallow	OFF	
WGA1	Waveform Manual Gain	20	
WGDT	Waveform Gain Delta-T	240	US/F
WGIN	Waveform Gain Interval	2540	US
WMOD	Waveform Firing Mode	FULL	
HRLT-B: High Resolution Laterolog Array - E			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	56	DEGC
CALSTAT	HRLTB Calibration Status	SHALLOW_DONE	
CALTEMP	HRLTB Calibration Temperature	47.801	DEGC
FREQ0	HRLT Frequency Index for Mode 0	32	
FREQ1	HRLT Frequency Index for Mode 1	128	
FREQ2	HRLT Frequency Index for Mode 2	104	
FREQ3	HRLT Frequency Index for Mode 3	86	
FREQ4	HRLT Frequency Index for Mode 4	56	
FREQ5	HRLT Frequency Index for Mode 5	44	
FREQ6	HRLT Frequency Index for Mode 6	116	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	Barite Mud Switch	NOBARITE	
KFAC_HRLT	HRLT K Factor Option	SONDE	
LOOPCOEF_S	HRLT Loop Coefficient for Shallow Modes	LOW	
LOOPMOD0	HRLT Mode 0 Loop Mode	AUTO	
LOOPMOD1	HRLT Mode 1 Loop Mode	AUTO	
LOOPMOD2	HRLT Mode 2 Loop Mode	AUTO	
LOOPMOD3	HRLT Mode 3 Loop Mode	AUTO	
LOOPMOD4	HRLT Mode 4 Loop Mode	AUTO	
LOOPMOD5	HRLT Mode 5 Loop Mode	AUTO	
LOOPMOD6	HRLT Mode 6 Loop Mode	AUTO	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
PROCVN	Inversion Selection	ON	
PROCMFL	Inversion Micro-Resistivity Selection	NO_EXTERNAL_RXO	
PROCMSO	Mechanical Standoff Fin Size	2.5	IN
PROCRM	Processing Mud Resistivity Select	HRLT_Compute	
PROCSPO	Sonde Position	Eccentered	
SHT	Surface Hole Temperature	20	DEGC
HILTB-FTB: High resolution Integrated Logging Tool-DTS			
BHFL	Borehole Fluid Type	WATER	
BHFL_TLD	HILT Nuclear Mud Base	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	56	DEGC
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DHC	Density Hole Correction	BS	
DPPM	Density Porosity Processing Mode	HIRS	
EXSICL	External Shale Indicator Clean Value	20	
EXSISH	External Shale Indicator Shale Value	150	
FD	Fluid Density	1	G/C3
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
FPHI	Form Factor Porosity Source	DPHZ	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCLF	Germany Coal-like Formation Option	NO	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HACPP	Accelerometer PROM Presence	PRESENT_FILE	
HART	Accelerometer Reference Temperature	20	DEGC
HDCOD	HILT Density Coal detection	2	G/C3
HDSAD	HILT Density Salt detection	2.1	G/C3
HILT_GAS_DENSITY	HILT Gas Downhole Density	0	G/C3
HILT_GAS_OPTION	HILT Gas Computation Option	OFF	
HNCOD	HILT Neutron Coal detection	45	PU
HNSAD	HILT Neutron Salt detection	5	PU
HPHIECUT	HILT effective Porosity Cutoff	5	PU
HSCO	Hole Size Correction Option	YES	
HSIS	HILT Shale Indicator Selection	GR	
HSSO	HRDD Nuclear Source Strength Option	NORMAL	
HSWCUT	HILT Water Saturation from AITH cutoff	50	%
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	BARI	
MDEN	Matrix Density	2.71	G/C3

MHCO	MCFL B0 Contrast Correction Coefficient	2.2e-005	OHMS
MHC1	MCFL B1 Contrast Correction Coefficient	3.2e-005	OHMS
MHCC	MCFL High Contrast Correction Switch	NO	
MPOF	MCFL Processing Operation Mode	ON	
MWCO	Mud Weight Correction Option	YES	
NAAC	HRDD APS Activation Correction	OFF	
NMT	HILT Nuclear Mud Type	BARITE	
NPRM	HRDD Processing Mode	HiRes	
NSAR	HRDD Depth Sampling Rate	1	IN
PEA_FILTER	PEA Filter	NO_FILTER	
PEFC_FILTER	PEFC Filter	NO_FILTER	
PHIMAX	HILT max porosity	35	PU
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SEXP_HILT	HILT Saturation Exponent	2	
SHT	Surface Hole Temperature	20	DEGC
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	NO	
BSP: Bridle SP			
SPNV	SP Next Value	0	MV
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	56	DEGC
FCD	Future Casing (Outer) Diameter	9.625	IN
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HVCS	Integrated Hole Volume Caliper Selection	HCAL	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	20	DEGC
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	1.524	M
TDD	Total Depth - Driller	1766.00	M
TDL	Total Depth - Logger	1760.00	M
System and Miscellaneous			
ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	12.250	IN
BSAL	Borehole Salinity	63000.00	PPM
CSIZ	Current Casing Size	13.375	IN
CWEI	Casing Weight	68.00	LB/F
DFD	Drilling Fluid Density	1.12	G/C3
DO	Depth Offset for Playback	0.0	M
DORL	Depth Offset for Repeat Analysis	0.0	M
FLEV	Fluid Level	-50000.00	M
MST	Mud Sample Temperature	20.20	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	RECOMPUTE	
RMFS	Resistivity of Mud Filtrate Sample	0.0994	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	1760	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: SON\_RES\_DENS\_NEU\_GR\_SP\_D200\_REP    Vertical Scale: 1:200    Graphics File Created: 08-Jun-2008 10:13

## OP System Version: 15C0-309

MCM

DSLT-FTB	SRPC-3546-Q1_2008_OP15	HRLT-B	SRPC-3546-Q1_2008_OP15
HILTB-FTB	SRPC-3546-Q1_2008_OP15	DTC-H	SRPC-3546-Q1_2008_OP15
BSP	SRPC-3546-Q1_2008_OP15		

## Input DLIS Files

DEFAULT	SONIC_HRLA_TLD_MCFL_014LUP FN:31	PRODUCER	06-Jun-2008 11:07	1761.0 M	689.2 M
DEFAULT	SONIC_HRLA_TLD_MCFL_014PUP FN:14	PRODUCER	08-Jun-2008 10:04	1675.0 M	1565.3 M

## Output DLIS Files

DEFAULT	SONIC_HRLA_TLD_MCFL_017PUP FN:20	PRODUCER	08-Jun-2008 10:13
CUSTOMER	SONIC_HRLA_TLD_MCFL_017PUC FN:21	CUSTOMER	08-Jun-2008 10:13



# MAXIS Field Log

## Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
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### High Resolution Laterolog Array – B Wellsite Calibration – HRLT M01

Before: 20-May-2008 5:49

HRLT M0-M1 Voltage Plus – 0	0	N/A	-316.3	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 1	0	N/A	-333.9	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 2	0	N/A	-334.5	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 3	0	N/A	-325.7	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 4	0	N/A	-317.7	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 5	0	N/A	-318.4	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 6	0	N/A	322.1	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 7	0	N/A	-322.7	N/A	N/A	9.681	UV

### High Resolution Laterolog Array – B Wellsite Calibration – HRLT M12

Before: 20-May-2008 5:49

HRLT M1-M2 Voltage Plus – 0	0	N/A	1746	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 1	0	N/A	1842	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 2	0	N/A	1840	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 3	0	N/A	1792	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 4	0	N/A	1748	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 5	0	N/A	1754	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 6	0	N/A	-1786	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 7	0	N/A	1781	N/A	N/A	53.42	UV

### High Resolution Laterolog Array – B Wellsite Calibration – HRLT M23

Before: 20-May-2008 5:49

HRLT M2-M3 Voltage Plus – 0	0	N/A	1744	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 1	0	N/A	1840	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 2	0	N/A	1842	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 3	0	N/A	1801	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 4	0	N/A	1754	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 5	0	N/A	1762	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 6	0	N/A	-1771	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 7	0	N/A	1781	N/A	N/A	53.42	UV

### High Resolution Laterolog Array – B Wellsite Calibration – HRLT V34

Before: 20-May-2008 5:49

HRLT A3-A4 Voltage Plus – 0	0	N/A	68000	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus – 1	0	N/A	71800	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus – 2	0	N/A	72170	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus – 3	0	N/A	70700	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus – 4	0	N/A	68770	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus – 5	0	N/A	69030	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus – 6	0	N/A	-68160	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus – 7	0	N/A	70000	N/A	N/A	2100	UV

### High Resolution Laterolog Array – B Wellsite Calibration – HRLT V45

Before: 20-May-2008 5:49

HRLT A4-A5 Voltage Plus – 0	0	N/A	67950	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus – 1	0	N/A	72000	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus – 2	0	N/A	72280	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus – 3	0	N/A	70760	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus – 4	0	N/A	68740	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus – 5	0	N/A	68980	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus – 6	0	N/A	-68360	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus – 7	0	N/A	70000	N/A	N/A	2100	UV

### High Resolution Laterolog Array – B Wellsite Calibration – HRLT V56

Before: 20-May-2008 5:49



HRLT A5-A6 Voltage Plus – 0	0	N/A	68140	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus – 1	0	N/A	71870	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus – 2	0	N/A	72280	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus – 3	0	N/A	70800	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus – 4	0	N/A	68880	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus – 5	0	N/A	69160	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus – 6	0	N/A	68350	N/A	N/A	2100	UV

HRLT A5-A6 Voltage Plus - 0	0	N/A	-66230	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 7	0	N/A	70000	N/A	N/A	2100	UV
High Resolution Laterolog Array - B Wellsite Calibration - HRLT VTP							
Before: 20-May-2008 5:49							
HRLT Torpedo-M0 Voltage - 0	0	N/A	-67650	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 1	0	N/A	-72090	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 2	0	N/A	-72380	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 3	0	N/A	-70880	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 4	0	N/A	-68890	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 5	0	N/A	-69150	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 6	0	N/A	68390	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 7	0	N/A	-70000	N/A	N/A	2100	UV
High Resolution Laterolog Array - B Wellsite Calibration - HRLT VBD							
Before: 20-May-2008 5:49							
HRLT Bridle#9-M0 Voltage - 0	0	N/A	-67850	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 1	0	N/A	-72260	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 2	0	N/A	-72790	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 3	0	N/A	-71160	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 4	0	N/A	-68880	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 5	0	N/A	-69270	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 6	0	N/A	68710	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 7	0	N/A	-70000	N/A	N/A	2100	UV
High Resolution Laterolog Array - B Wellsite Calibration - HRLT ISO							
Before: 20-May-2008 5:49							
HRLT Source Current Plus - 0	0	N/A	282.5	N/A	N/A	8.520	UA
HRLT Source Current Plus - 1	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 2	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 3	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 4	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 5	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 6	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 7	0	N/A	281.1	N/A	N/A	8.520	UA
High Resolution Laterolog Array - B Wellsite Calibration - HRLT MV							
Before: 20-May-2008 5:49							
HRLT Vertical Voltage PI - 0	0	N/A	-318.7	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 1	0	N/A	-328.6	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 2	0	N/A	-327.8	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 3	0	N/A	-317.8	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 4	0	N/A	-307.3	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 5	0	N/A	-322.9	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 6	0	N/A	329.8	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 7	0	N/A	-322.7	N/A	N/A	9.681	UV
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Stab Measurement Summary							
Before: 18-May-2008 2:51							
BS Window Ratio	0.7650	N/A	0.7646	N/A	N/A	N/A	
BS Window Sum	10870	N/A	10550	N/A	N/A	N/A	CPS
SS Window Ratio	0.4882	N/A	0.4862	N/A	N/A	N/A	
SS Window Sum	10310	N/A	10290	N/A	N/A	N/A	CPS
LS Window Ratio	0.3000	N/A	0.3006	N/A	N/A	N/A	
LS Window Sum	1149	N/A	1148	N/A	N/A	N/A	CPS
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Photo-multiplier High Voltages Calibrations							
Before: 18-May-2008 2:51							
BS PM High Voltage (Command)	1250	N/A	1281	N/A	N/A	N/A	V
SS PM High Voltage (Command)	1933	N/A	1960	N/A	N/A	N/A	V
LS PM High Voltage (Command)	1406	N/A	1444	N/A	N/A	N/A	V
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Crystal Quality Resolutions Calibration							
Before: 18-May-2008 2:51							
BS Crystal Resolution	9.851	N/A	9.851	N/A	N/A	N/A	%
SS Crystal Resolution	10.83	N/A	10.87	N/A	N/A	N/A	%
LS Crystal Resolution	9.405	N/A	9.300	N/A	N/A	N/A	%
High resolution Integrated Logging Tool-DTS Wellsite Calibration - MCFL Calibration							
Before: 18-May-2008 2:52							
Raw B0 Resistivity	3875	N/A	3878	N/A	N/A	N/A	OHMM
Raw B1 Resistivity	3830	N/A	3834	N/A	N/A	N/A	OHMM
Raw B2 Resistivity	3830	N/A	3836	N/A	N/A	N/A	OHMM
High resolution Integrated Logging Tool-DTS Wellsite Calibration - HILT Caliper Calibration							
Before: 18-May-2008 2:58							
HILT Caliper Zero Measurement	8.000	N/A	8.007	N/A	N/A	N/A	IN
HILT Caliper Plus Measurement	12.00	N/A	12.35	N/A	N/A	N/A	IN
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Detector Calibration							
Before: 18-May-2008 2:48							
Gamma Ray Background	30.00	N/A	9.339	N/A	N/A	N/A	GAPI







Gamma Ray (Jig – Bkg)	190.1	N/A	190.1	N/A	N/A	17.28	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI
High resolution Integrated Logging Tool–DTS Wellsite Calibration – Zero Measurement							
Master: 20–Feb–2008 21:21 Before: 18–May–2008 3:09							
CNTC Background	29.71	29.71	28.07	N/A	N/A	4.457	CPS
CFTC Background	33.75	33.75	29.60	N/A	N/A	5.063	CPS
High resolution Integrated Logging Tool–DTS Wellsite Calibration – Ratio Measurement							
Master: 20–Feb–2008 21:21							
Thermal Near Corr. (Tank)	5800	5605	N/A	N/A	N/A	N/A	CPS
Thermal Far Corr. (Tank)	2400	2340	N/A	N/A	N/A	N/A	CPS
CNTC/CFTC (Tank)	2.159	2.395	N/A	N/A	N/A	N/A	
High resolution Integrated Logging Tool–DTS Wellsite Calibration – Accelerometer Calibration							
Before: 20–May–2008 2:07							
Z–Axis Acceleration	9.810	N/A	9.798	N/A	N/A	N/A	M/S2
High resolution Integrated Logging Tool–DTS Master Calibration – Inversion results							
Master: 17–May–2008 23:24							
Rho Aluminum	2.596	2.604	--	--	--	--	G/C3
Rho Magnesium	1.686	1.682	--	--	--	--	G/C3
Pe Aluminum	2.570	2.600	--	--	--	--	
Pe Magnesium	2.650	2.638	--	--	--	--	
High resolution Integrated Logging Tool–DTS Master Calibration – Deviation Summary							
Master: 17–May–2008 23:24							
BS Average Deviation	0	0.3317	--	--	--	--	%
BS Max Deviation	0	0.6782	--	--	--	--	%
SS Average Deviation	0	0.6170	--	--	--	--	%
SS Max Deviation	0	1.306	--	--	--	--	%
LS Average Deviation	0	1.429	--	--	--	--	%
LS Max Deviation	0	2.977	--	--	--	--	%
The GLS–VJ source activity is acceptable.							
The HGNS Neutron Master Calibration was done with the following parameters :							
NCT–B Water Temperature	20.0	DEGC.					
Thermal Housing Size	3.376	IN.					
NSR–F serial number	5224						









Digitizing Sonic Logging Tool / Equipment Identification		
Primary Equipment:		
DDBHC Sonde (3' 5' 7')	SLS – CB	163
Digitizing Sonic Logging Cartridge	DSLCL – B	8106
Auxiliary Equipment:		
Electronics Cartridge Housing	ECH – KH	8161









High Resolution Laterolog Array – B / Equipment Identification		
Primary Equipment:		
HRLT Sonde	HRLS – B	848
Auxiliary Equipment:		
HRLT lower Housing	HRLH – B	851
HRLT Lower Cartridge	HRLC – B	845
HRLT upper Housing	HRUH – B	847
HRLT Upper Cartridge	HRUC – B	848









High Resolution Laterolog Array – B Wellsite Calibration							
HRLT M01							
Idx	Phase	HRLT M0–M1 Voltage Plus UV	Value	Nominal	Maximum	Minimum	
0	Before		–316.3	–322.7	–280.7	–379.7	
1	Before		–333.9	–322.7	–280.7	–379.7	











2	Before		-334.5	-322.7	-280.7	-379.7
3	Before		-325.7	-322.7	-280.7	-379.7
4	Before		-317.7	-322.7	-280.7	-379.7
5	Before		-318.4	-322.7	-280.7	-379.7
6	Before		322.1	322.7	379.7	280.7
7	Before		-322.7	-322.7	-280.7	-379.7
			(Minimum)	(Nominal)	(Maximum)	
Before: 20-May-2008 5:49						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M12						
Idx	Phase	HRLT M1–M2 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1746	1781	2095	1549
1	Before		1842	1781	2095	1549
2	Before		1840	1781	2095	1549
3	Before		1792	1781	2095	1549
4	Before		1748	1781	2095	1549
5	Before		1754	1781	2095	1549
6	Before		-1786	-1781	-1549	-2095
7	Before		1781	1781	2095	1549
			(Minimum)	(Nominal)	(Maximum)	
Before: 20-May-2008 5:49						









High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M23						
Idx	Phase	HRLT M2–M3 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1744	1781	2095	1549
1	Before		1840	1781	2095	1549
2	Before		1842	1781	2095	1549
3	Before		1801	1781	2095	1549
4	Before		1754	1781	2095	1549
5	Before		1762	1781	2095	1549
6	Before		-1771	-1781	-1549	-2095
7	Before		1781	1781	2095	1549
			(Minimum)	(Nominal)	(Maximum)	
Before: 20-May-2008 5:49						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V34						
Idx	Phase	HRLT A3–A4 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68000	70000	82360	60900
1	Before		71800	70000	82360	60900
2	Before		72170	70000	82360	60900
3	Before		70700	70000	82360	60900
4	Before		68770	70000	82360	60900
5	Before		69030	70000	82360	60900
6	Before		-68160	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
			(Minimum)	(Nominal)	(Maximum)	









Before: 20-May-2008 5:49

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V45						
Idx	Phase	HRLT A4–A5 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		67950	70000	82360	60900
1	Before		72000	70000	82360	60900
2	Before		72280	70000	82360	60900
3	Before		70760	70000	82360	60900
4	Before		68740	70000	82360	60900
5	Before		68980	70000	82360	60900
6	Before		–68360	–70000	–60900	–82360
7	Before		70000	70000	82360	60900
(Minimum) (Nominal) (Maximum)						





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




High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V56						
Idx	Phase	HRLT A5–A6 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68140	70000	82360	60900
1	Before		71870	70000	82360	60900
2	Before		72280	70000	82360	60900
3	Before		70800	70000	82360	60900
4	Before		68880	70000	82360	60900
5	Before		69160	70000	82360	60900
6	Before		–68250	–70000	–60900	–82360
7	Before		70000	70000	82360	60900
(Minimum) (Nominal) (Maximum)						









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





High Resolution Laterolog Array – B Wellsite Calibration						
HRLT VTP						
Idx	Phase	HRLT Torpedo–M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		–67650	–70000	–60900	–82360
1	Before		–72090	–70000	–60900	–82360
2	Before		–72380	–70000	–60900	–82360
3	Before		–70880	–70000	–60900	–82360
4	Before		–68890	–70000	–60900	–82360
5	Before		–69150	–70000	–60900	–82360
6	Before		68390	70000	82360	60900
7	Before		–70000	–70000	–60900	–82360
(Minimum) (Nominal) (Maximum)						

Before: 20-May-2008 5:49

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT VBD						
Idx	Phase	HRLT Bridle#9–M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		–67850	–70000	–60900	–82360
1	Before		–72260	–70000	–60900	–82360
2	Before		–72790	–70000	–60900	–82360
						

3	Before		-71160	-70000	-60900	-82360
4	Before		-68880	-70000	-60900	-82360
5	Before		-69270	-70000	-60900	-82360
6	Before		68710	70000	82360	60900
7	Before		-70000	-70000	-60900	-82360
(Minimum) (Nominal) (Maximum)						
Before: 20-May-2008 5:49						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT ISO						
Idx	Phase	HRLT Source Current Plus UA	Value	Nominal	Maximum	Minimum
0	Before		282.5	284.0	334.1	247.0
1	Before		281.1	281.1	330.7	244.4
2	Before		281.1	281.1	330.7	244.4
3	Before		281.1	281.1	330.7	244.4
4	Before		281.1	281.1	330.7	244.4
5	Before		281.1	281.1	330.7	244.4
6	Before		281.1	281.1	330.7	244.4
7	Before		281.1	281.1	330.7	244.4
(Minimum) (Nominal) (Maximum)						
Before: 20-May-2008 5:49						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT MV						
Idx	Phase	HRLT Vertical Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-318.7	-322.7	-280.7	-379.7
1	Before		-328.6	-322.7	-280.7	-379.7
2	Before		-327.8	-322.7	-280.7	-379.7
3	Before		-317.8	-322.7	-280.7	-379.7
4	Before		-307.3	-322.7	-280.7	-379.7
5	Before		-322.9	-322.7	-280.7	-379.7
6	Before		329.8	322.7	379.7	280.7
7	Before		-322.7	-322.7	-280.7	-379.7
(Minimum) (Nominal) (Maximum)						
Before: 20-May-2008 5:49						

#### High resolution Integrated Logging Tool–DTS / Equipment Identification

##### Primary Equipment:







HILT high–Resolution Mechanical Sonde  
 HILT Rxo Gamma–ray Device  
 HILT Micro Cylindrically Focused Log Dev  
 GR Logging Source  
 HILT High Res. Control Cartridge  
 HILT Gamma–Ray Neutron Sonde–DTS  
 HGNS Gamma–Ray Device  
 HGNS Neutron Detector with Alpha Source




HRMS – B 788  
 HRGD – BC 1806  
 MCFL – 1  
 GLS – J 5334  
 HRCC – B 868  
 HGNS – B 856  
 HGR –  
 HCNT –




##### Auxiliary Equipment:




Neutron Calibration Tank  
 Gamma Source Radioactive  
 HGNS Housing



NCT – B  
 GSR – U/Y  
 HGNS – 3915




Phase	BS Window Ratio		Value	Phase	SS Window Ratio		Value	Phase	LS Window Ratio		Value
Before			0.7646	Before			0.4862	Before			0.3006
	0.7267 (Minimum)	0.7650 (Nominal)	0.8032 (Maximum)		0.4638 (Minimum)	0.4882 (Nominal)	0.5126 (Maximum)		0.2850 (Minimum)	0.3000 (Nominal)	0.3150 (Maximum)
Phase	BS Window Sum CPS		Value	Phase	SS Window Sum CPS		Value	Phase	LS Window Sum CPS		Value
Before			10550	Before			10290	Before			1148
	10330 (Minimum)	10870 (Nominal)	11420 (Maximum)		9793 (Minimum)	10310 (Nominal)	10820 (Maximum)		1092 (Minimum)	1149 (Nominal)	1207 (Maximum)
Before: 18-May-2008 2:51											





High resolution Integrated Logging Tool-DTS Wellsite Calibration											
Photo-multiplier High Voltages Calibrations											
Phase	BS PM High Voltage (Command) V		Value	Phase	SS PM High Voltage (Command) V		Value	Phase	LS PM High Voltage (Command) V		Value
Before			1281	Before			1960	Before			1444
	1150 (Minimum)	1250 (Nominal)	1350 (Maximum)		1833 (Minimum)	1933 (Nominal)	2033 (Maximum)		1306 (Minimum)	1406 (Nominal)	1506 (Maximum)
Before: 18-May-2008 2:51											



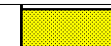
High resolution Integrated Logging Tool-DTS Wellsite Calibration											
Crystal Quality Resolutions Calibration											
Phase	BS Crystal Resolution %		Value	Phase	SS Crystal Resolution %		Value	Phase	LS Crystal Resolution %		Value
Before			9.851	Before			10.87	Before			9.300
	8.851 (Minimum)	9.851 (Nominal)	10.85 (Maximum)		9.832 (Minimum)	10.83 (Nominal)	11.83 (Maximum)		8.405 (Minimum)	9.405 (Nominal)	10.40 (Maximum)
Before: 18-May-2008 2:51											


High resolution Integrated Logging Tool-DTS Wellsite Calibration											
MCFL Calibration											
Phase	Raw B0 Resistivity OHMM		Value	Phase	Raw B1 Resistivity OHMM		Value	Phase	Raw B2 Resistivity OHMM		Value
Before			3878	Before			3834	Before			3836
	3565 (Minimum)	3875 (Nominal)	4185 (Maximum)		3524 (Minimum)	3830 (Nominal)	4136 (Maximum)		3524 (Minimum)	3830 (Nominal)	4136 (Maximum)
Before: 18-May-2008 2:52											





High resolution Integrated Logging Tool-DTS Wellsite Calibration							
HILT Caliper Calibration							
Phase	HILT Caliper Zero Measurement IN		Value	Phase	HILT Caliper Plus Measurement IN		Value
Before			8.007	Before			12.35
	6.000 (Minimum)	8.000 (Nominal)	10.00 (Maximum)		9.000 (Minimum)	12.00 (Nominal)	15.00 (Maximum)
Before: 18-May-2008 2:58							



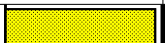



High resolution Integrated Logging Tool-DTS Wellsite Calibration											
Detector Calibration											
Phase	Gamma Ray Background GAPI		Value	Phase	Gamma Ray (Jig - Bkg) GAPI		Value	Phase	Gamma Ray (Calibrated) GAPI		Value
Before			9.339	Before			190.1	Before			165.0
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)		172.8 (Minimum)	190.1 (Nominal)	207.4 (Maximum)		150.0 (Minimum)	165.0 (Nominal)	180.0 (Maximum)
Before: 18-May-2008 2:48											



High resolution Integrated Logging Tool-DTS Wellsite Calibration																	
Zero Measurement																	
Phase	CNTC Background CPS			Value	Phase	CFTC Background CPS			Value								
Master				29.71	Master				33.75								
Before				28.07	Before				29.60								
5.000 (Minimum)				29.71 (Nominal)	40.00 (Maximum)				5.000 (Minimum)				33.75 (Nominal)	40.00 (Maximum)			
Master: 20-Feb-2008 21:21						Before: 18-May-2008 3:09											




High resolution Integrated Logging Tool-DTS Wellsite Calibration											
Ratio Measurement											
Phase	Thermal Near Corr. (Tank) CPS		Value	Phase	Thermal Far Corr. (Tank) CPS		Value	Phase	CNTC/CFTC (Tank)		Value
Master			5605	Master			2340	Master			2.395
	4700 (Minimum)	5800 (Nominal)	6900 (Maximum)		1900 (Minimum)	2400 (Nominal)	2900 (Maximum)		2.120 (Minimum)	2.159 (Nominal)	2.540 (Maximum)

High resolution Integrated Logging Tool-DTS Wellsite Calibration		
Accelerometer Calibration		
Phase	Z-Axis Acceleration M/S2	Value
Before		9.798
	9.610 (Minimum)      9.810 (Nominal)      10.01 (Maximum)	
Before: 20-May-2008 2:07		

High resolution Integrated Logging Tool-DTS Master Calibration					
Inversion results					
Phase	Rho Aluminum G/C3	Value	Phase	Rho Magnesium G/C3	Value
Master		2.604	Master		1.682
	2.586 (Minimum)      2.596 (Nominal)      2.606 (Maximum)			1.676 (Minimum)      1.686 (Nominal)      1.696 (Maximum)	
Phase	Pe Aluminum	Value	Phase	Pe Magnesium	Value
Master		2.600	Master		2.638
	2.470 (Minimum)      2.570 (Nominal)      2.670 (Maximum)			2.550 (Minimum)      2.650 (Nominal)      2.750 (Maximum)	
Master: 17-May-2008 23:24					

High resolution Integrated Logging Tool-DTS Master Calibration								
Deviation Summary								
Phase	BS Average Deviation %	Value	Phase	SS Average Deviation %	Value	Phase	LS Average Deviation %	Value
Master		0.3317	Master		0.6170	Master		1.429
	-0.6000 (Minimum)      0 (Nominal)      0.6000 (Maximum)			-1.000 (Minimum)      0 (Nominal)      1.000 (Maximum)			-1.500 (Minimum)      0 (Nominal)      1.500 (Maximum)	
Phase	BS Max Deviation %	Value	Phase	SS Max Deviation %	Value	Phase	LS Max Deviation %	Value
Master		0.6782	Master		1.306	Master		2.977
	-1.600 (Minimum)      0 (Nominal)      1.600 (Maximum)			-2.500 (Minimum)      0 (Nominal)      2.500 (Maximum)			-3.500 (Minimum)      0 (Nominal)      3.500 (Maximum)	
Master: 17-May-2008 23:24								

High resolution Integrated Logging Tool-DTS Master Calibration					
Zero Measurement					
Phase	CNTC Background CPS	Value	Phase	CFTC Background CPS	Value
Master		29.71	Master		33.75
	5.000 (Minimum)      29.71 (Nominal)      40.00 (Maximum)			5.000 (Minimum)      33.75 (Nominal)      40.00 (Maximum)	
Master: 20-Feb-2008 21:21					

High resolution Integrated Logging Tool-DTS Master Calibration								
Tank Measurement								
Phase	Thermal Near Corr. (Tank) CPS	Value	Phase	Thermal Far Corr. (Tank) CPS	Value	Phase	CNTC/CFTC (Tank)	Value
Master		5605	Master		2340	Master		2.395
	4700 (Minimum)      5800 (Nominal)      6900 (Maximum)			1900 (Minimum)      2400 (Nominal)      2900 (Maximum)			2.120 (Minimum)      2.159 (Nominal)      2.540 (Maximum)	
Master: 20-Feb-2008 21:21								

DTS Telemetry Tool / Equipment Identification		
Primary Equipment:		
DTC-H Auxiliary Cartridge	DTCH - A	
DTC-H Telemetry Cartridge	DTCH - A	8944
Auxiliary Equipment:		
DTCH Telemetry Cartridge Housing	ECH - KC	10020

## WFTI INCLINOMETRY LIST

Meas. Tie Depth : 703.8 M True Vert. Tie Depth: 667.9 M |

Measured Depth (M )	Deviation (DEG)	Azimuth Depth (DEG)	True Vertical Depth (M )
---------------------------	--------------------	---------------------------	--------------------------------

703.8	34.90	240.07	667.9
722.5	34.35	239.86	683.3
802.8	32.02	241.09	750.5
831.5	30.76	239.33	775.0
861.5	31.64	238.19	800.6
891.2	31.39	236.51	826.0
920.2	31.58	236.01	850.7
949.8	31.70	236.73	875.8
979.8	31.37	237.60	901.4
1009.2	31.56	240.47	926.5
1039.0	31.64	239.79	951.9
1066.6	31.64	241.83	975.4
1096.5	32.01	242.11	1000.8
1125.9	32.34	242.75	1025.7
1155.7	32.17	242.53	1050.9
1184.6	32.35	243.98	1075.3
1214.8	32.18	244.06	1100.9
1244.9	30.73	243.07	1126.5
1274.2	29.50	243.74	1151.9
1303.8	28.32	243.43	1177.8
1333.2	26.97	243.84	1203.9
1363.3	25.76	244.51	1230.8
1392.3	24.64	245.10	1257.1
1421.7	23.41	245.94	1283.9
1451.5	21.93	245.34	1311.4
1481.2	19.28	245.06	1339.2
1511.2	16.74	243.33	1367.7
1540.8	14.49	240.57	1396.3
1570.2	12.40	236.98	1424.8
1599.8	10.35	236.26	1453.8
1630.2	9.46	236.73	1483.7
1659.9	8.81	235.87	1513.1
1689.4	8.19	235.45	1542.3
1718.8	7.67	235.27	1571.4
1745.7	7.26	234.18	1598.0

1745.7	7.36	234.18	1598.0
1766.0	7.36	234.18	1618.2

Company:	3D Oil Limited	Schlumberger
Well:	Wardie-1	
Field:	Exploration	
Rig:	West Triton	
Country:	Australia	
BHC-HRLA-PEX-G Sonic-Resistivity-Density-Neutron-G Suite 1 Run 1 – Scale 1:200 (MD)		