

**Company: CDEX**

**Well: C0009A**

**Field: Kumanonada, Offshore Kii peninsula**

**Rig: Chikyu Country: JAPAN**

**TLD-CNL-GR**  
**3652.9m – 2785.0m**  
**Suite 1, Run 1 (1:500)**

LOCATION		Elev.:	K.B.
NanKai Trough		0.00 m	G.L.
NT2-11B		above Perm. Datum	D.F.
		28.30 m	28.30 m

Rig: Chikyu  
 Field: Kumanonada, Offshore Kii peninsula  
 Location: NanKai Trough  
 Well: C0009A  
 Company: CDEX

Permanent Datum:	MEAN SEA LEVEL	Elev.:	28.30 m
Log Measured From:	DRILL FLOOR		
Drilling Measured From:	DRILL FLOOR		

Prefecture: Wakayama	Max. Well Deviation	Longitude	Latitude
	0.7 deg	136° 32.1489' E	33° 27.4704' N

Logging Date	12-Jul-2009		
Run Number	1		
Depth Driller	3686 m		
Schlumberger Depth	3667 m		
Bottom Log Interval	3652.9 m		
Top Log Interval	2785 m		
Casing Driller Size @ Depth	20,000 in @ 2786.2 m		
Casing Schlumberger	2785 m		
Bit Size	12.250 in		
Type Fluid In Hole	KCl-NaCl Polymer		
Density	1.1 g/cm3	97 s	
Fluid Loss	4.1 cm3	10.6	
Source Of Sample	Flow Line		
RM @ Measured Temperature	0.068 ohm.m	@	26 degC
RMF @ Measured Temperature	0.059 ohm.m	@	27 degC
RMC @ Measured Temperature	0.083 ohm.m	@	26 degC
Source RMF	Press	Press	
RM @ MRT	0.060 @ 32	0.052 @ 32	
Maximum Recorded Temperatures	32 degC	31	31
Circulation Stopped	11-Jul-2009	Time	5:30
Logger On Bottom	11-Jul-2009	Time	4:45
Unit Number	4308	Location	JPOP
Recorded By	Payap Thongpracharn		
Witnessed By	T. Honda / K. Takahashi		

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			
Fluid Loss			
Source Of Sample			
RM @ Measured Temperature		@	
RMF @ Measured Temperature		@	
RMC @ Measured Temperature		@	
Source RMF			
RM @ MRT	@		@
Maximum Recorded Temperatures			
Circulation Stopped		Time	
Logger On Bottom		Time	
Unit Number		Location	
Recorded By			
Witnessed By			

## DEPTH SUMMARY LISTING

Date Created: 15-JUL-2009 16:22:03

### Depth System Equipment

Depth Measuring Device	Tension Device	Logging Cable
Type: IDW-JA Serial Number: 6726 Calibration Date: Calibrator Serial Number: 17 Calibration Cable Type: 7-46A XXS Wheel Correction 1: -6 Wheel Correction 2: -6	Type: CMTD-B/A Serial Number: 2986 Calibration Date: 16-Apr-09 Calibrator Serial Number: 1049 Number of Calibration Points: 10 Calibration RMS: 373 Calibration Peak Error: 499	Type: 7-46A XXS Serial Number: 6019 Length: 9200 M <hr/> Conveyance Method: Wireline Rig Type: Offshore Floater with WMC

### Depth Control Parameters

Log Sequence:	First Log In the Well
Rig Up Length At Surface:	89.00 M
Rig Up Length At Bottom:	89.00 M
Rig Up Length Correction:	0.00 M
Stretch Correction:	3.20 M
Tool Zero Check At Surface:	0.00 M

### Depth Control Remarks

1. Schlumberger Depth Control Policy is followed.
2. IDW used as primary depth control device.
3. Z-Chart used as secondary depth control device.
4. Tide Level = 0 m.
- 5.
- 6.

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#### OTHER SERVICES1

- OS1: FMI-HNGS-EMS-Sonic Scanner-PPC-GR
- OS2: MDT Dual Packer & Sungle Probe
- OS3:
- OS4:
- OS5:

#### REMARKS: RUN NUMBER 1

- This is the first log in the well.
- Downlog used as the reference log.
- Tool ran as per tool sketch and 2.5 inch standoffs used.
- Maximum recorded temperature from logging head thermometers = 32.22 degC.
- Maximum deviation = 0.70 deg @ 2749.79mBRT.
- Logging speed was 1,800 ft/hr.
- Half strength neutron source (8 Ci) used due to Japanese regulation.

Repeat section was taken from 3665.4m-3575.0m as per client request.

Caliper check in casing = 18.75 inch.

Some of data affected by borehole condition (rugosity/washout).

Circulation Started: 11-Jul-2009; 1:45am

Circulation Stopped: 11-Jul-2009; 5:30am

AV=55 cps, PV=35 cps, YV=40 lb/100ft2, Gel=7-8 lb/100ft2, WL=4.1 ml, MC=0.5 mm

pH=10.6 ml, Pf=0.2 ml, Pm=0.3 ml, Mf=0.3 ml, Cl=-71,700 mg/l, Ca++Mg++=80/97 mg/l, Sand = 0.2%

O/S/W=0/6/94 %Vol, MBC=0.5 ml/ml mud, K+=26,400 mg/l










RUN 1			RUN 2		
SERVICE ORDER #:		AVDO-0003	SERVICE ORDER #:		
PROGRAM VERSION:		17C0-154	PROGRAM VERSION:		
FLUID LEVEL:		10 m	FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP




## EQUIPMENT DESCRIPTION

RUN 1 RUN 2

**SURFACE EQUIPMENT**  
 WITM (DTS)-A  
 GSR-Y 1005  
 NCT-B 2138  
 CNB-AB  
 NCS-YC 5380

**DOWNHOLE EQUIPMENT**

LEH-QT LEH-QT 1794		23.60
AH-369		22.71
DTC-H ECH-KC 9799 DTCH0-A	CTEM TelStatus ToolStatu 	22.00 22.28 0.5 IN Standoff
SPA-A SPA-A 9933	SP SPARC HGNS HTEM HMCA 	20.75 21.36 20.14
HILTH-FTB HGNSD-H 3840 HMCA-H HGNH 2916 NLS-KL 5228 NSR-F 5228 HACCZ-H HCNT-H HGR	HGNS Gamm 	19.92 20.14
HRMS-H 3846 HRGD-H 3824 GLS-VJ 3804 MCFL HILT cali HRDD-LS HRDD-SS HRDD-BS	HGNS Neut HGNS Neut HGNS sens 	18.14 17.99 17.27
HRCC-H 3794 HRMS-H 3846 HRGD-H 3824 GLS-VJ 3804 MCFL HILT cali HRDD-LS HRDD-SS HRDD-BS	HRCC cart 	16.06
GLS-VJ 3804 MCFL HILT cali HRDD-LS HRDD-SS HRDD-BS		14.40 14.25
HILT Nucl. LS-H HILT Nucl. SS-H HILT Nucl. BS-H BOW-SPR		14.13

AH-184 AH-184 936		13.54
AH-184 AH-184 917		12.93
HRLT-B HRUH-B 755 HRUC-B 755 HRLS-B 846 HRLH-B 849 HRLC-B 847 AH-270 846		12.32 2.5 IN Standoff

High Res.

8.74

2.5 IN  
Standoff  
Standoff

Mud Resis  
Mud Tempe

4.77  
4.52

4.95

2.5 IN  
Standoff

Calipers

1.63

DF  
HTEN HMAS HV  
Accelerom  
Cartridge  
Tension

0.00

0.61

TOOL ZERO

EMS-B  
EMA-B 8002  
RES  
EMC-B 8027  
ECH-KH 8028  
EMM-B 8023

BNS-NG  
BNS-NG

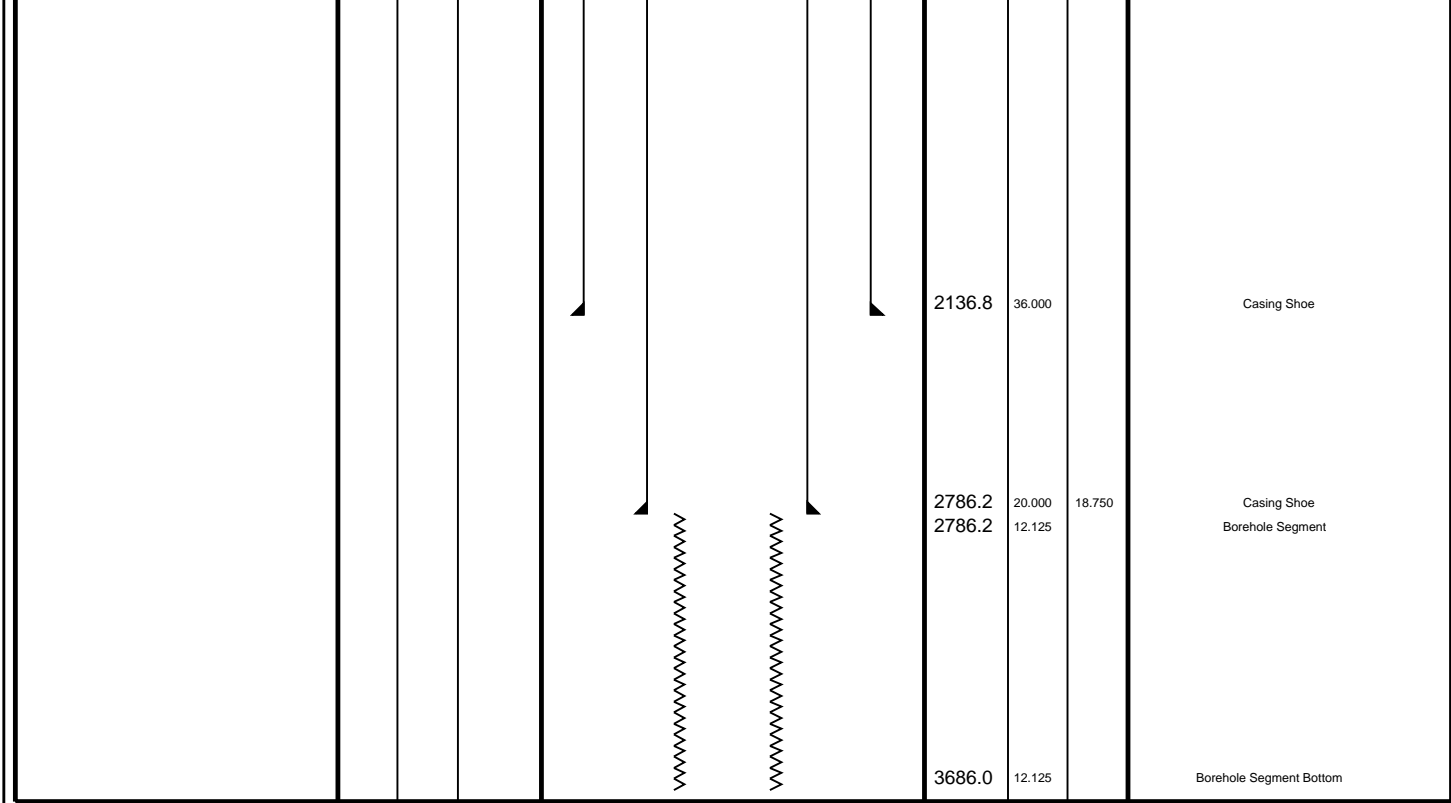
MAXIMUM STRING DIAMETER 8.63 IN  
MEASUREMENTS RELATIVE TO TOOL ZERO  
ALL LENGTHS IN METERS

Client: CDEX  
Well: C0009A  
Field: Nankai Trough  
State: Wakayama  
Country: JAPAN

Rig Name: Chikyu  
Reference Datum: Mean Sea Level  
Elevation: 28.3 m

Drawing Date: 7/11/2009

Production String	(in)			Well Schematic	(m)			Casing String
	OD	ID	MD		MD	OD	ID	
			28.3					
			0.0					
					2082.3	36.000		Casing String



**Main Log  
1:500**

MAXIS Field Log

Company: CDEX Well: C0009A

**Input DLIS Files**

DEFAULT	MERGE_EMS_HRLA_TLD_025GUP	FN:1	PRODUCER	13-Aug-2009 12:50	3670.2 M	2755.7 M
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**Output DLIS Files**

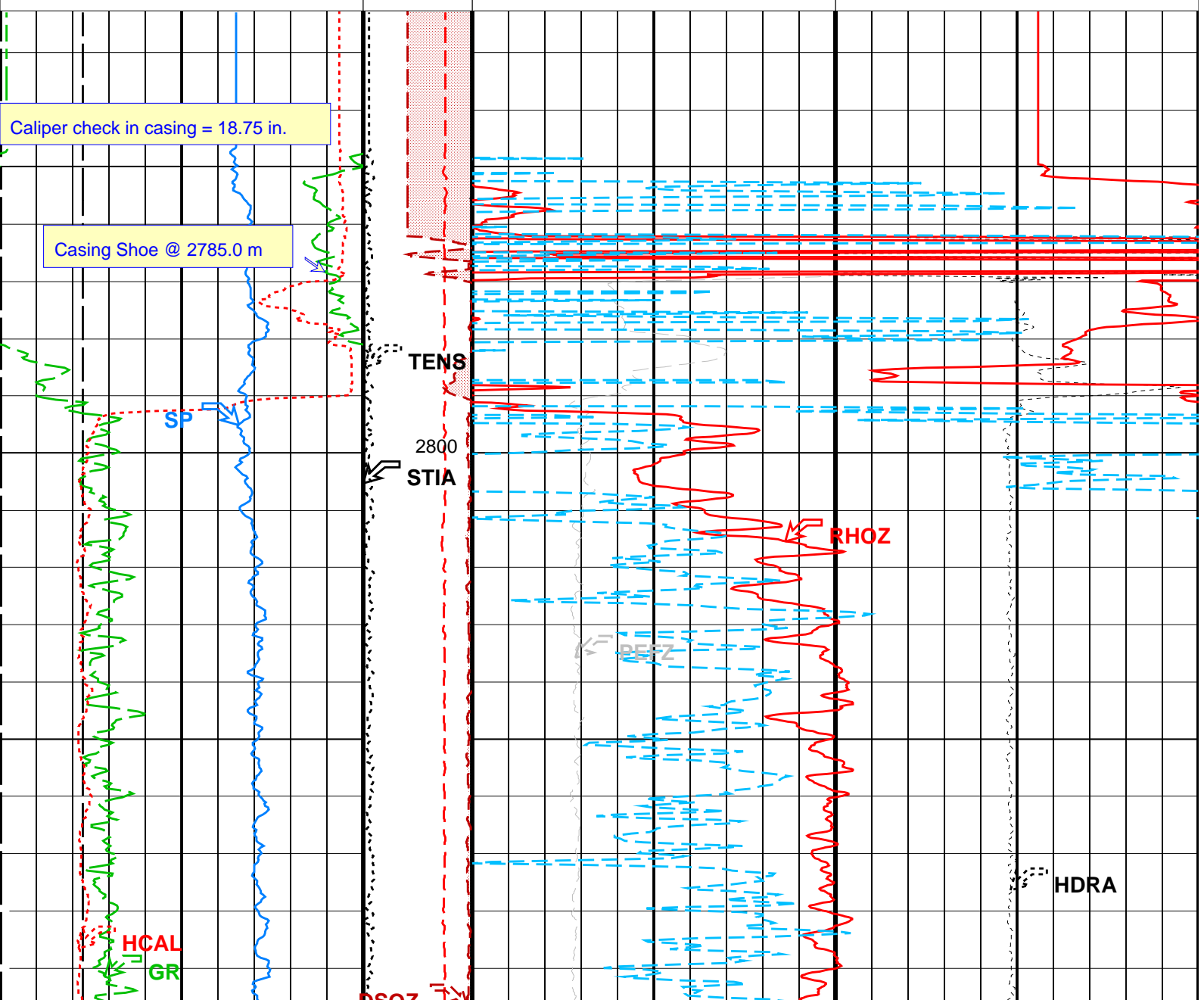
DEFAULT	EMS_HRLA_TLD_MCFL_029PUP	FN:65	PRODUCER	13-Aug-2009 13:36	3670.2 M	2761.4 M
CLIENT	EMS_HRLA_TLD_MCFL_029PUC	FN:66	CUSTOMER	13-Aug-2009 13:36	3670.2 M	2761.4 M

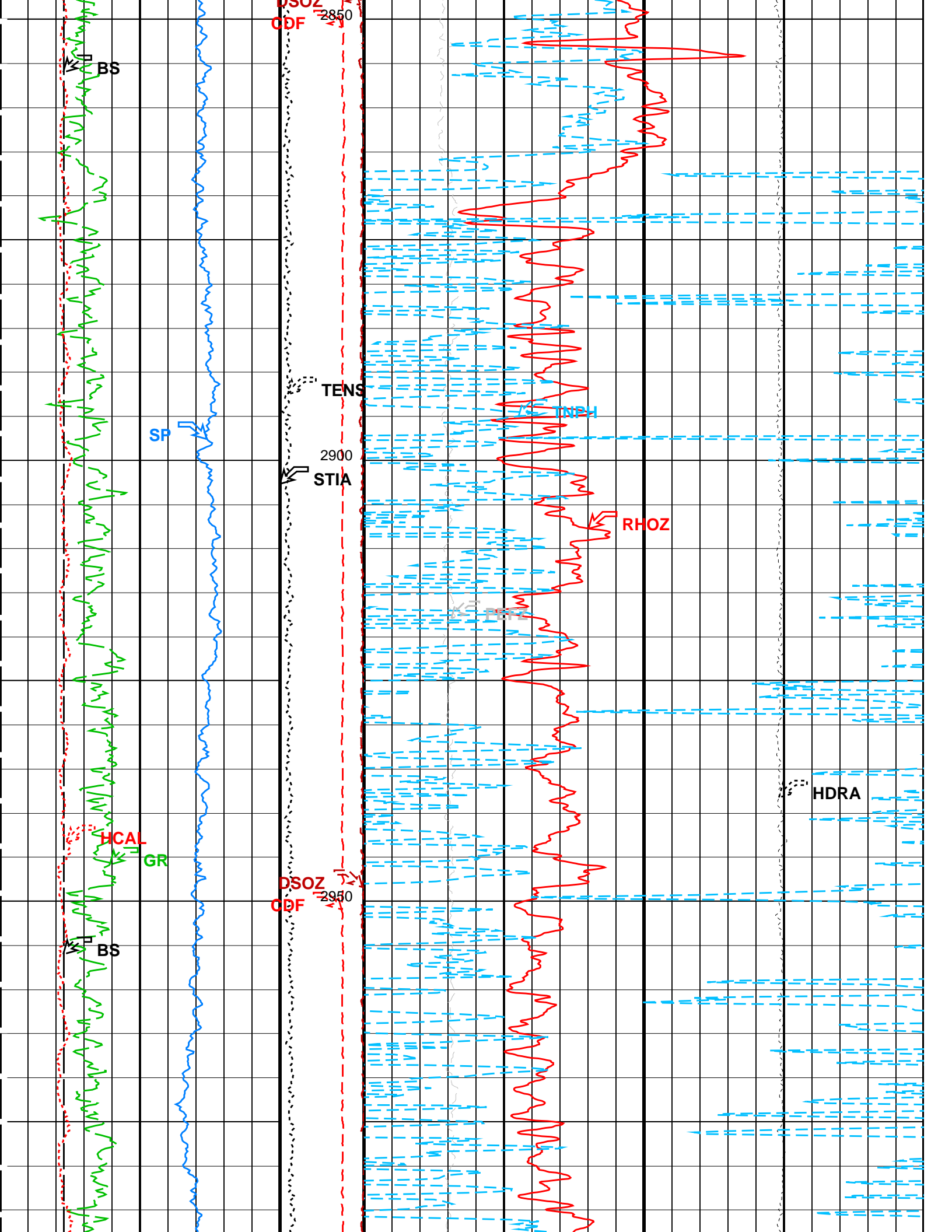
**OP System Version: 17C0-154**

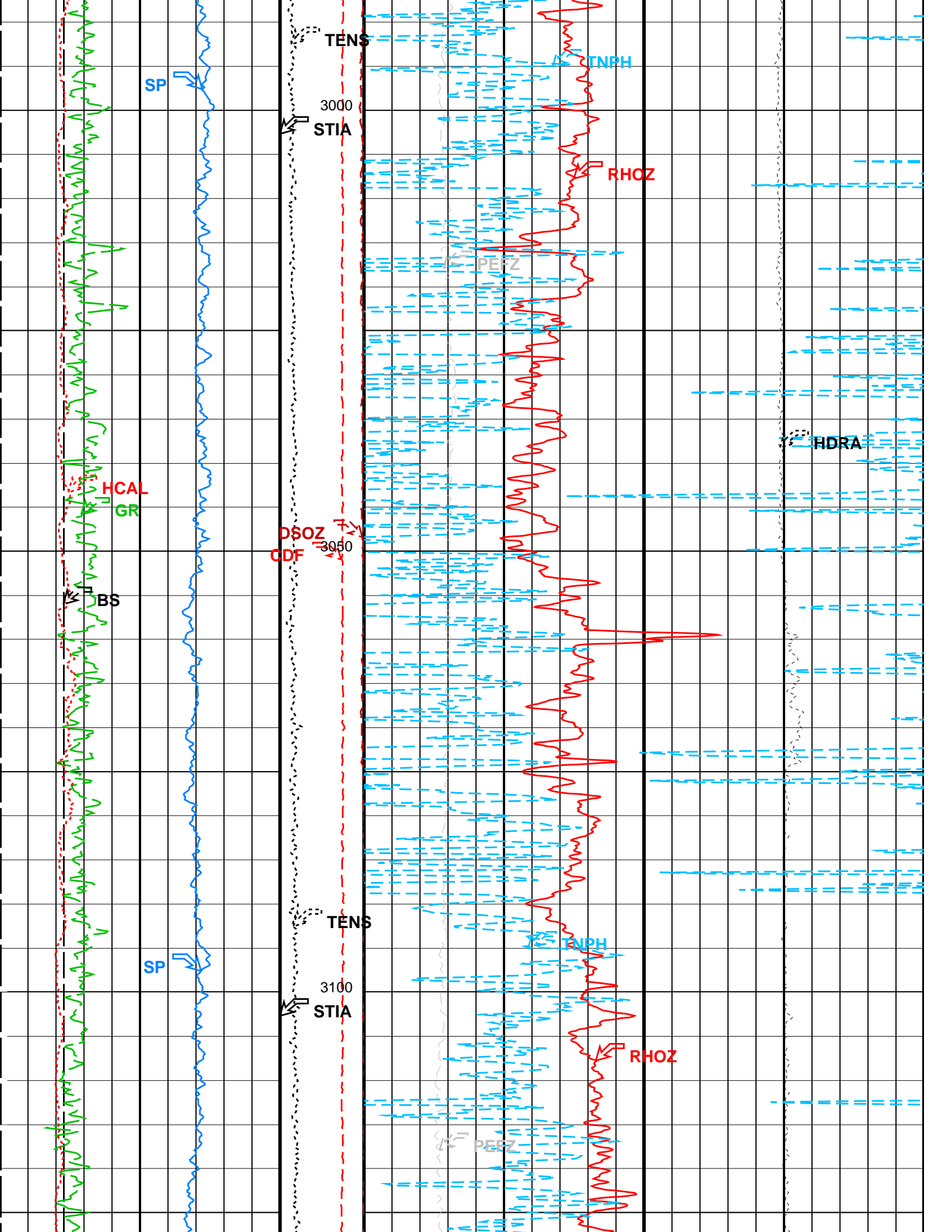
EMS-B	17C0-154	HRLT-B	17C0-154
HILTH-FTB	17C0-154	SPA-A	17C0-154
DTC-H	17C0-154	MAXS-B	SKK-3704-MAST
MAPC-B	SKK-3704-MAST		

Time Mark Every 60 S

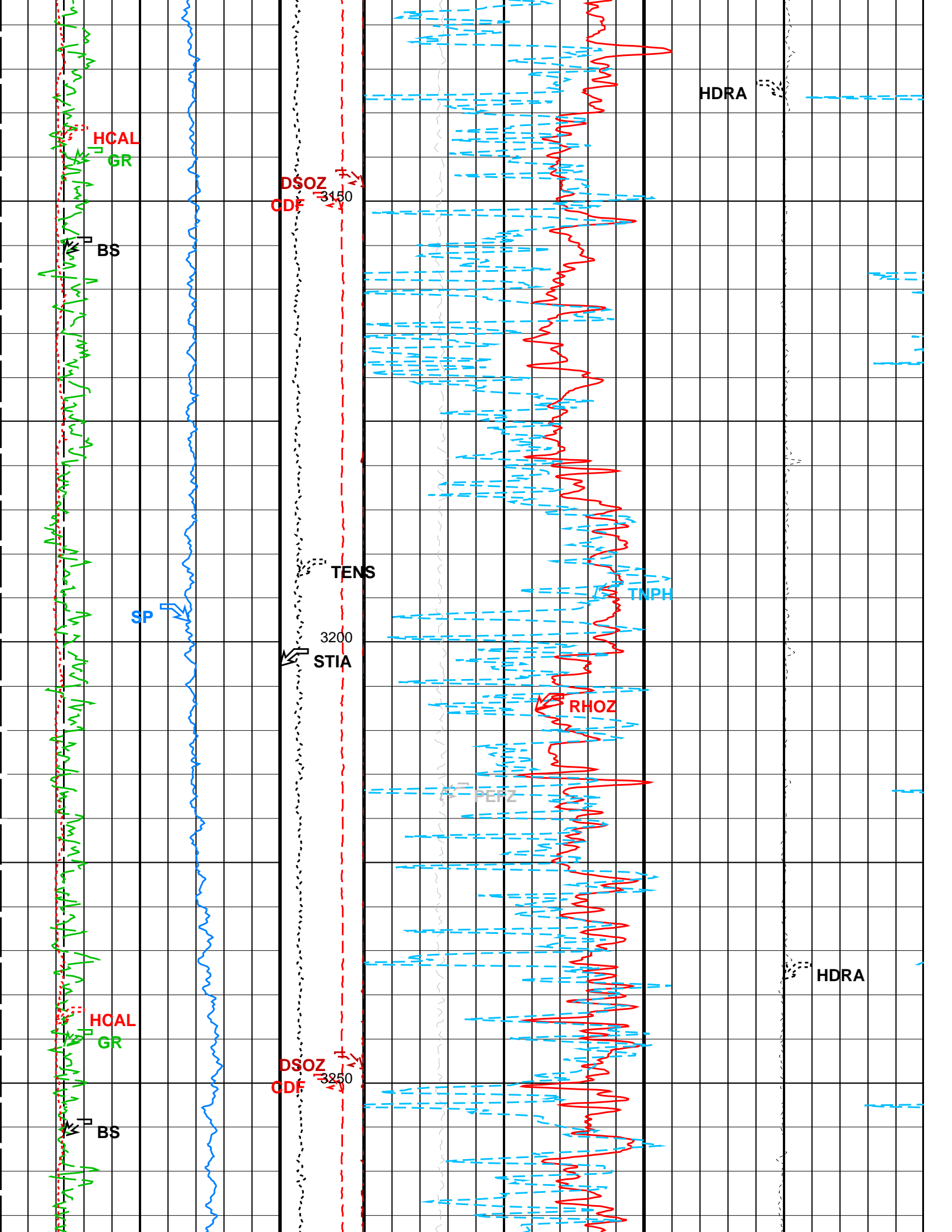
<p>SP (SP) (MV)</p> <p>-80 20</p>	<p>Std. Res. Density Standoff (DSOZ) (INCH)</p> <p>2.5 0</p>		
<p>HILT Caliper (HCAL) (IN)</p> <p>10 20</p>	<p>Calibrated Downhole Force (CDF) (LBF)</p> <p>-200 1800</p>	<p>Env. Corr. Thermal Neutron Porosity (TNPH) (V/V)</p> <p>0.6 0</p>	
<p>Gamma Ray (GR) (GAPI)</p> <p>50 150</p>	<p>Density Stand-off From DSOZ to D3T</p>	<p>Std. Res. Formation Density (RHOZ) (G/C3)</p> <p>1.7 2.7</p>	
<p>Bit Size (BS) (IN)</p> <p>10 20</p>	<p>Tension (TENS) (LBF)</p> <p>0 2000</p>	<p>Std. Res. Formation Pe (PEFZ) (----)</p> <p>0 10</p>	<p>Density Correction (HDRA) (G/C3)</p> <p>-0.25 0.25</p>

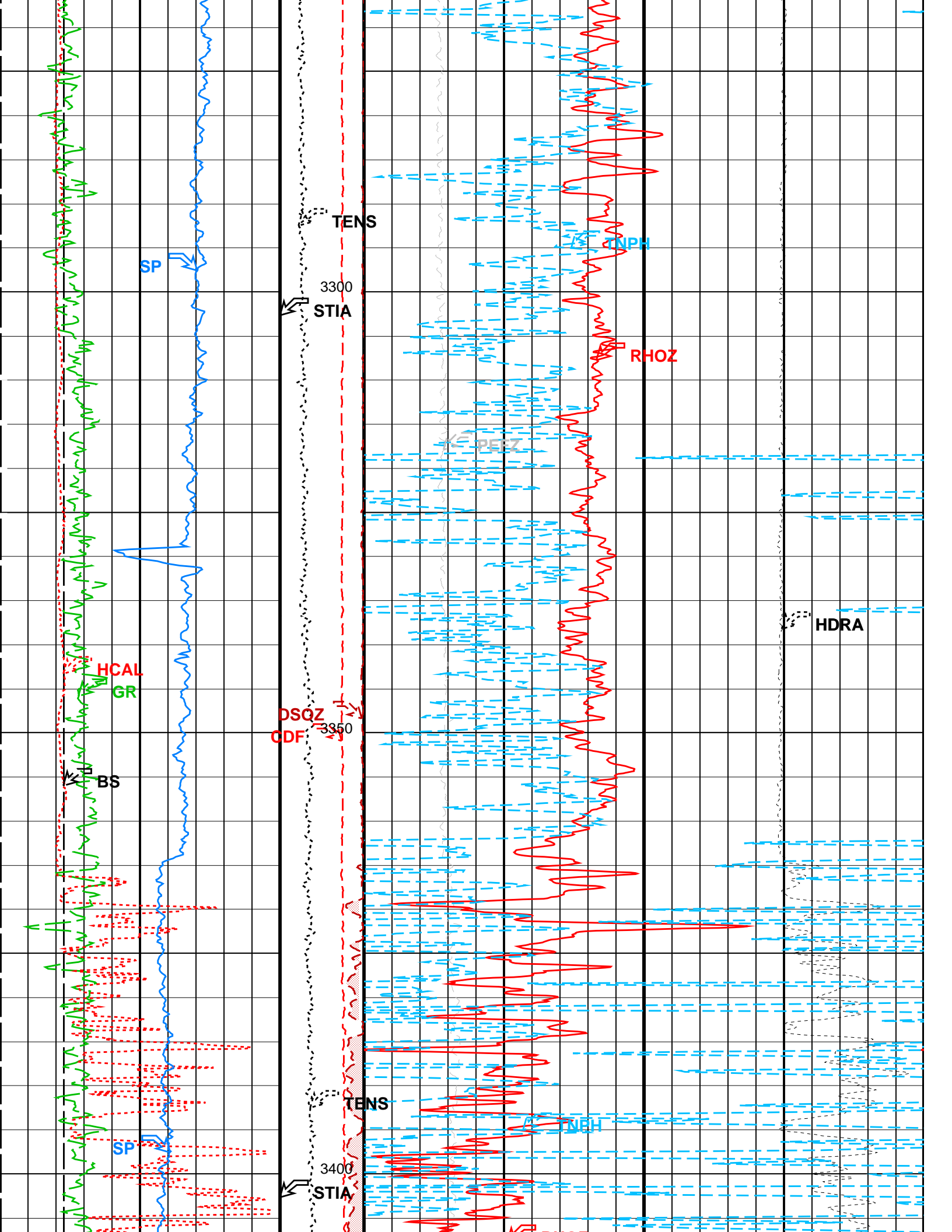


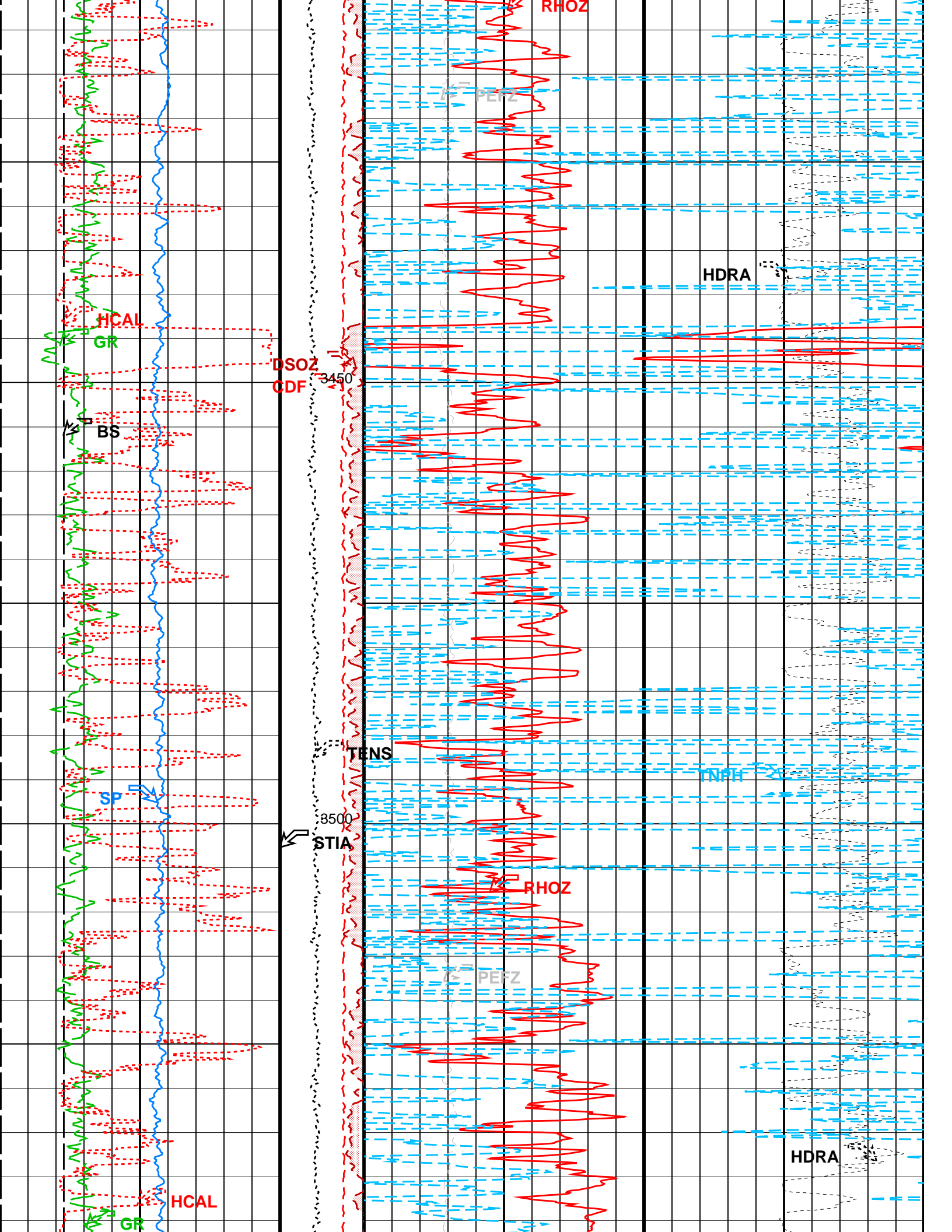


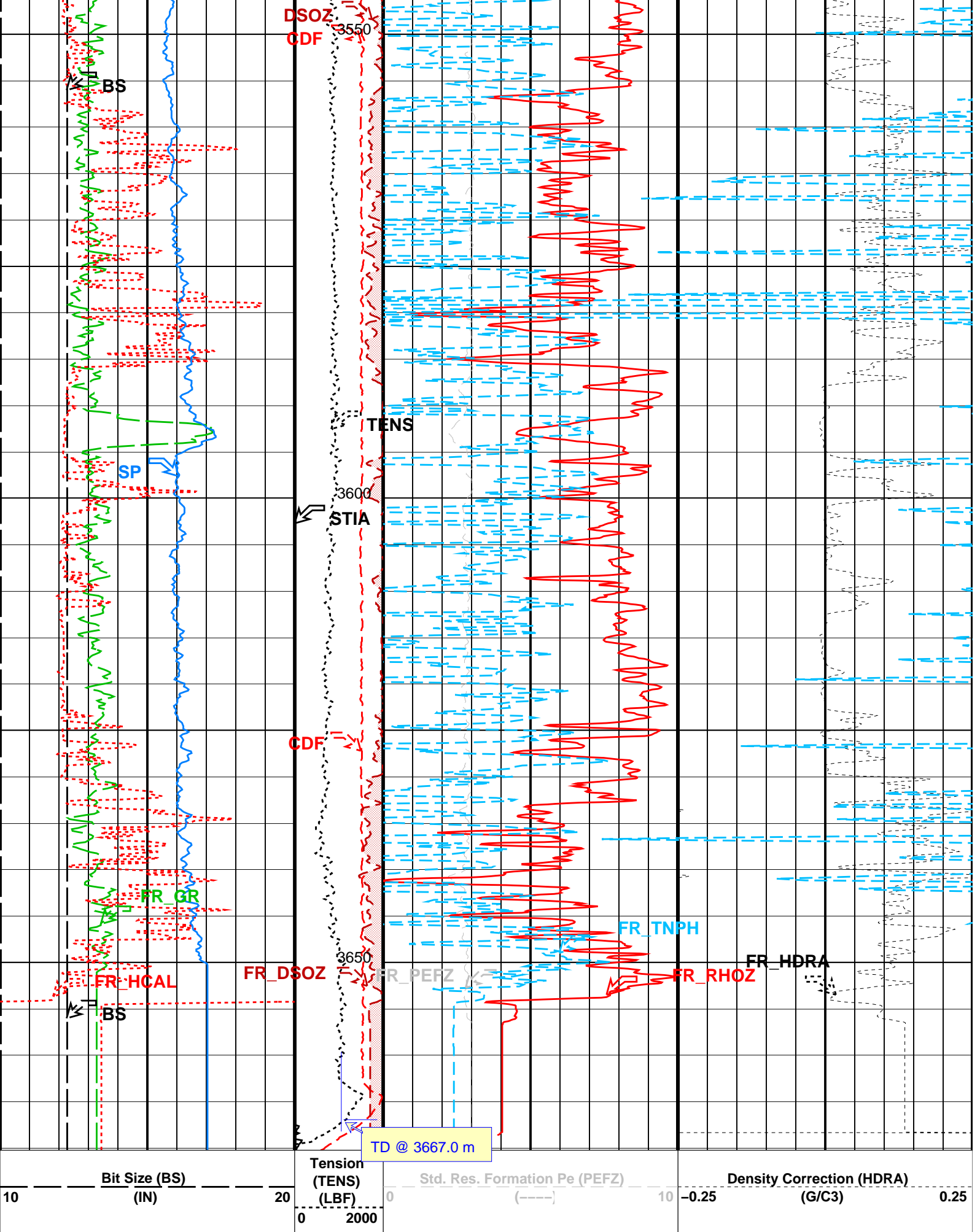












DSOZ  
CDF

3550

BS

TENS

3600

STIA

CDF

3650

FR GR

FR\_TNPH

FR\_HDRA

FR\_HCAL

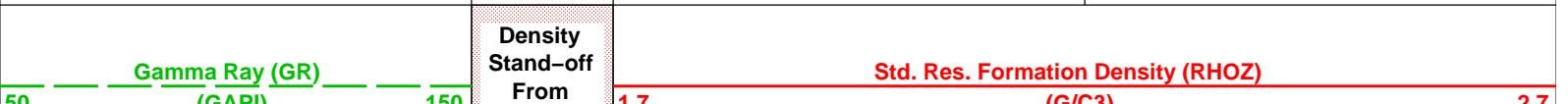
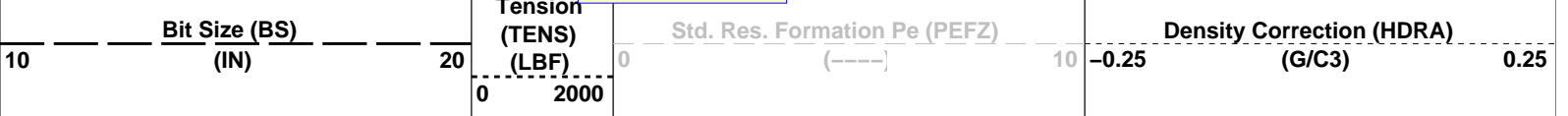
FR\_DSOZ

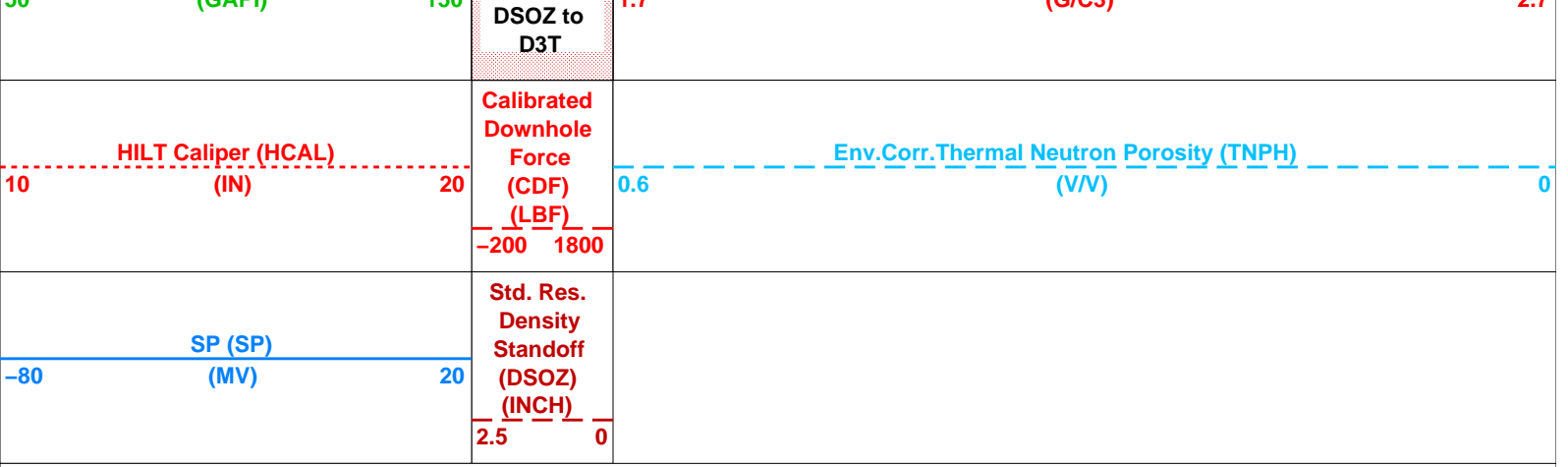
FR\_PEFZ

FR\_RHOZ

BS

TD @ 3667.0 m





PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
<b>HRLT-B: High Resolution Laterolog Array - B</b>		
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	HCAL
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.018227 DC/M
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE
SHT	Surface Hole Temperature	25 DEGC
<b>HILTH-FTB: High resolution Integrated Logging Tool-DTS</b>		
BHFL	Borehole Fluid Type	WATER
BHFL_TLD	HILT Nuclear Mud Base	WATER
BHS	Borehole Status	OPEN
BSCO	Borehole Salinity Correction Option	YES
CCCO	Casing & Cement Thickness Correction Option	NO
DHC	Density Hole Correction	BS
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
HSCO	Hole Size Correction Option	YES
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE
MCCO	Mud Cake Correction Option	NO
MCOR	Mud Correction	NATU
MWCO	Mud Weight Correction Option	YES
NAAC	HRDD APS Activation Correction	OFF
NMT	HILT Nuclear Mud Type	NOBARITE
NPRM	HRDD Processing Mode	StdRes
NSAR	HRDD Depth Sampling Rate	1 IN
PTCO	Pressure/Temperature Correction Option	YES
SDAT	Standoff Data Source	SOCN
SHT	Surface Hole Temperature	25 DEGC
SOCN	Standoff Distance	0.125 IN
SOCO	Standoff Correction Option	YES
<b>SPA-A: SP ADAPTOR</b>		
SPNV	SP Next Value	0 MV
<b>MAPC-B: Multimode Array Sonic Power Cartridge</b>		
BHS	Borehole Status	OPEN
BS	Bit Size	12.250 IN
GCSE	Generalized Caliper Selection	HCAL
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.018227 DC/M
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE
SHT	Surface Hole Temperature	25 DEGC
<b>STI: Stuck Tool Indicator</b>		
STKT	STI Stuck Threshold	0.762 M
TDD	Total Depth - Driller	3686.00 M
TDL	Total Depth - Logger	3667.00 M
<b>System and Miscellaneous</b>		
BSAL	Borehole Salinity	110000.00 PPM
DO	Depth Offset for Playback	0.0 M
DORL	Depth Offset for Repeat Analysis	0.0 M
PP	Playback Processing	OFF

EMS-B 17C0-154  
 HILTH-FTB 17C0-154  
 DTC-H 17C0-154  
 MAPC-B SKK-3704-MAST

HRLT-B 17C0-154  
 SPA-A 17C0-154  
 MAXS-B SKK-3704-MAST

### Input DLIS Files

DEFAULT	MERGE_EMS_HRLA_TLD_025GUP	FN:1	PRODUCER	13-Aug-2009 12:50	3670.2 M	2755.7 M
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### Output DLIS Files

DEFAULT	EMS_HRLA_TLD_MCFL_029PUP	FN:65	PRODUCER	13-Aug-2009 13:36
CLIENT	EMS_HRLA_TLD_MCFL_029PUC	FN:66	CUSTOMER	13-Aug-2009 13:36



## Calibrations

### MAXIS Field Log

#### Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Environment Measurement Sonde Wellsite Calibration – EMS Caliper Calibration							
Before: 11-Jul-2009 23:37							
Radius 1 Short Radius	4.000	N/A	3.627	N/A	N/A	0.2000	IN
Radius 1 Long Radius	8.000	N/A	7.897	N/A	N/A	0.2000	IN
Radius 2 Short Radius	4.000	N/A	3.405	N/A	N/A	0.2000	IN
Radius 2 Long Radius	8.000	N/A	7.651	N/A	N/A	0.2000	IN
Radius 3 Short Radius	4.000	N/A	3.595	N/A	N/A	0.2000	IN
Radius 3 Long Radius	8.000	N/A	7.818	N/A	N/A	0.2000	IN
Radius 4 Short Radius	4.000	N/A	3.824	N/A	N/A	0.2000	IN
Radius 4 Long Radius	8.000	N/A	8.065	N/A	N/A	0.2000	IN
Radius 5 Short Radius	4.000	N/A	3.791	N/A	N/A	0.2000	IN
Radius 5 Long Radius	8.000	N/A	8.051	N/A	N/A	0.2000	IN
Radius 6 Short Radius	4.000	N/A	3.728	N/A	N/A	0.2000	IN
Radius 6 Long Radius	8.000	N/A	7.967	N/A	N/A	0.2000	IN
High Resolution Laterolog Array – B Wellsite Calibration – HRLT M01							
Before: 12-Jul-2009 3:18							
HRLT M0-M1 Voltage Plus – 0	0	N/A	-316.4	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 1	0	N/A	-325.5	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 2	0	N/A	-317.9	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 3	0	N/A	-320.9	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 4	0	N/A	-314.2	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 5	0	N/A	-319.8	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 6	0	N/A	319.2	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: 12-Jul-2009 3:18							
HRLT M1-M2 Voltage Plus – 0	0	N/A	1749	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 1	0	N/A	1800	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 2	0	N/A	1753	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 3	0	N/A	1769	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 4	0	N/A	1733	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 5	0	N/A	1764	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 6	0	N/A	-1773	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: 12-Jul-2009 3:18							

HRLT M2-M3 Voltage Plus - 0	0	N/A	1738	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 1	0	N/A	1793	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 2	0	N/A	1749	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 3	0	N/A	1770	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 4	0	N/A	1730	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 5	0	N/A	1764	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 6	0	N/A	-1754	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: 12-Jul-2009 3:18

HRLT A3-A4 Voltage Plus - 0	0	N/A	68360	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 1	0	N/A	70650	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 2	0	N/A	69170	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 3	0	N/A	70140	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 4	0	N/A	68390	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 5	0	N/A	69680	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 6	0	N/A	-68180	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: 12-Jul-2009 3:18

HRLT A4-A5 Voltage Plus - 0	0	N/A	68340	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 1	0	N/A	70770	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 2	0	N/A	69260	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 3	0	N/A	70190	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 4	0	N/A	68390	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 5	0	N/A	69660	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 6	0	N/A	-68320	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: 12-Jul-2009 3:18

HRLT A5-A6 Voltage Plus - 0	0	N/A	68600	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 1	0	N/A	71030	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 2	0	N/A	69500	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 3	0	N/A	70440	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 4	0	N/A	68640	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 5	0	N/A	69930	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 6	0	N/A	-68520	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: 12-Jul-2009 3:18

HRLT Torpedo-M0 Voltage - 0	0	N/A	-68120	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 1	0	N/A	-70960	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 2	0	N/A	-69440	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 3	0	N/A	-70410	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 4	0	N/A	-68600	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 5	0	N/A	-69880	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 6	0	N/A	68420	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: 12-Jul-2009 3:18

HRLT Bridle#9-M0 Voltage - 0	0	N/A	-68130	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 1	0	N/A	-70950	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 2	0	N/A	-69440	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 3	0	N/A	-70410	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 4	0	N/A	-68610	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 5	0	N/A	-69880	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 6	0	N/A	68420	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: 12-Jul-2009 3:18

HRLT Source Current Plus - 0	0	N/A	283.7	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: 12-Jul-2009 3:18

HRLT Vertical Voltage PI - 0	0	N/A	-320.2	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 1	0	N/A	-322.1	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 2	0	N/A	-313.4	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 3	0	N/A	-314.7	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 4	0	N/A	305.2	N/A	N/A	9.681	UV



HRLT Vertical Voltage PI – 4	0	N/A	-303.2	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI – 5	0	N/A	-325.5	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI – 6	0	N/A	328.8	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: 12–Jul–2009 0:20

BS Window Ratio	0.7445	N/A	0.7439	N/A	N/A	N/A	
BS Window Sum	27090	N/A	27070	N/A	N/A	N/A	CPS
SS Window Ratio	0.4832	N/A	0.4839	N/A	N/A	N/A	
SS Window Sum	11550	N/A	11540	N/A	N/A	N/A	CPS
LS Window Ratio	0.2926	N/A	0.2954	N/A	N/A	N/A	
LS Window Sum	1253	N/A	1251	N/A	N/A	N/A	CPS

High resolution Integrated Logging Tool–DTS Wellsite Calibration – Photo–multiplier High Voltages Calibrations

Before: 12–Jul–2009 0:20

BS PM High Voltage (Command)	1557	N/A	1555	N/A	N/A	N/A	V
SS PM High Voltage (Command)	1608	N/A	1607	N/A	N/A	N/A	V
LS PM High Voltage (Command)	1432	N/A	1438	N/A	N/A	N/A	V

High resolution Integrated Logging Tool–DTS Wellsite Calibration – Crystal Quality Resolutions Calibration

Before: 12–Jul–2009 0:20

BS Crystal Resolution	12.45	N/A	12.29	N/A	N/A	N/A	%
SS Crystal Resolution	9.204	N/A	9.168	N/A	N/A	N/A	%
LS Crystal Resolution	8.148	N/A	8.234	N/A	N/A	N/A	%

High resolution Integrated Logging Tool–DTS Wellsite Calibration – MCFL Calibration

Before: 12–Jul–2009 1:48

Raw B0 Resistivity	3875	N/A	3868	N/A	N/A	N/A	OHMM
Raw B1 Resistivity	3830	N/A	3812	N/A	N/A	N/A	OHMM
Raw B2 Resistivity	3830	N/A	3866	N/A	N/A	N/A	OHMM

High resolution Integrated Logging Tool–DTS Wellsite Calibration – HILT Caliper Calibration

Before: 12–Jul–2009 0:30

HILT Caliper Zero Measurement	8.000	N/A	8.514	N/A	N/A	N/A	IN
HILT Caliper Plus Measurement	12.00	N/A	12.40	N/A	N/A	N/A	IN

High resolution Integrated Logging Tool–DTS Wellsite Calibration – Detector Calibration

Before: 12–Jul–2009 0:21

Gamma Ray Background	30.00	N/A	4.160	N/A	N/A	N/A	GAPI
Gamma Ray (Jig – Bkgd)	160.0	N/A	184.7	N/A	N/A	14.55	GAPI

High resolution Integrated Logging Tool–DTS Wellsite Calibration – Zero Measurement

Master: 29–Jun–2009 23:18 Before: 12–Jul–2009 0:22

CNTC Background	28.54	28.54	27.66	N/A	N/A	4.281	CPS
CFTC Background	30.72	30.72	29.47	N/A	N/A	4.608	CPS

High resolution Integrated Logging Tool–DTS Wellsite Calibration – Ratio Measurement

Master: 29–Jun–2009 23:18

Thermal Near Corr. (Tank)	5800	2617	N/A	N/A	N/A	N/A	CPS
Thermal Far Corr. (Tank)	2400	1121	N/A	N/A	N/A	N/A	CPS
CNTC/CFTC (Tank)	2.159	2.335	N/A	N/A	N/A	N/A	

High resolution Integrated Logging Tool–DTS Wellsite Calibration – Accelerometer Calibration

Before: 12–Jul–2009 0:21

Z–Axis Acceleration	9.810	N/A	9.781	N/A	N/A	N/A	M/S2
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High resolution Integrated Logging Tool–DTS Master Calibration – Inversion results

Master: 3–Jul–2009 18:59

Rho Aluminum	2.596	2.597	---	---	---	---	G/C3
Rho Magnesium	1.686	1.688	---	---	---	---	G/C3
Pe Aluminum	2.570	2.516	---	---	---	---	
Pe Magnesium	2.650	2.634	---	---	---	---	

High resolution Integrated Logging Tool–DTS Master Calibration – Deviation Summary

Master: 3–Jul–2009 18:59

BS Average Deviation	0	0.2800	---	---	---	---	%
BS Max Deviation	0	0.6805	---	---	---	---	%
SS Average Deviation	0	0.4310	---	---	---	---	%
SS Max Deviation	0	1.992	---	---	---	---	%
LS Average Deviation	0	0.6905	---	---	---	---	%
LS Max Deviation	0	1.788	---	---	---	---	%

The GLS–VJ source activity is acceptable.

The HGNS Neutron Master Calibration was done with the following parameters :

NCT–B Water Temperature 27.0 DEGC.



Environment Measurement Sonde / Equipment Identification

Primary Equipment:  
 EMS Mechanical EMM - B 8023  
 EMS Cartridge EMC - B 8027  
 EMS Adaptor EMA - B 8002  
 Resistivity Meter RES -

Auxiliary Equipment:  
 Electronics Cartridge Housing ECH - KH 8028

Environment Measurement Sonde Wellsite Calibration

EMS Caliper Calibration

Phase	Radius 1 Short Radius IN	Value	Phase	Radius 1 Long Radius IN	Value
Before		3.627	Before		7.897
	3.000 (Minimum) 4.000 (Nominal) 5.000 (Maximum)			7.000 (Minimum) 8.000 (Nominal) 9.000 (Maximum)	
Phase	Radius 2 Short Radius IN	Value	Phase	Radius 2 Long Radius IN	Value
Before		3.405	Before		7.651
	3.000 (Minimum) 4.000 (Nominal) 5.000 (Maximum)			7.000 (Minimum) 8.000 (Nominal) 9.000 (Maximum)	
Phase	Radius 3 Short Radius IN	Value	Phase	Radius 3 Long Radius IN	Value
Before		3.595	Before		7.818
	3.000 (Minimum) 4.000 (Nominal) 5.000 (Maximum)			7.000 (Minimum) 8.000 (Nominal) 9.000 (Maximum)	
Phase	Radius 4 Short Radius IN	Value	Phase	Radius 4 Long Radius IN	Value
Before		3.824	Before		8.065
	3.000 (Minimum) 4.000 (Nominal) 5.000 (Maximum)			7.000 (Minimum) 8.000 (Nominal) 9.000 (Maximum)	
Phase	Radius 5 Short Radius IN	Value	Phase	Radius 5 Long Radius IN	Value
Before		3.791	Before		8.051
	3.000 (Minimum) 4.000 (Nominal) 5.000 (Maximum)			7.000 (Minimum) 8.000 (Nominal) 9.000 (Maximum)	
Phase	Radius 6 Short Radius IN	Value	Phase	Radius 6 Long Radius IN	Value
Before		3.728	Before		7.967
	3.000 (Minimum) 4.000 (Nominal) 5.000 (Maximum)			7.000 (Minimum) 8.000 (Nominal) 9.000 (Maximum)	

Before: 11-Jul-2009 23:37

High Resolution Laterolog Array - B / Equipment Identification

Primary Equipment:  
 HRLT Sonde HRLS - B 846

Auxiliary Equipment:  
 HRLT lower Housing HRLH - B 849  
 HRLT Lower Cartridge HRLC - B 847  
 HRLT upper Housing HRUH - B 755  
 HRLT Upper Cartridge HRUC - B 755

High Resolution Laterolog Array - B Wellsite Calibration

HRLT M01

Idx	Phase	HRLT M0-M1 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-316.4	-322.7	-280.7	-379.7
1	Before		-325.5	-322.7	-280.7	-379.7
2	Before		-317.9	-322.7	-280.7	-379.7
3	Before		-320.9	-322.7	-280.7	-379.7
4	Before		-314.2	-322.7	-280.7	-379.7

5	Before		-319.8	-322.7	-280.7	-379.7
6	Before		319.2	322.7	379.7	280.7
7	Before		-322.7	-322.7	-280.7	-379.7
		(Minimum) (Nominal) (Maximum)				

Before: 12-Jul-2009 3:18

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M12						
Idx	Phase	HRLT M1–M2 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1749	1781	2095	1549
1	Before		1800	1781	2095	1549
2	Before		1753	1781	2095	1549
3	Before		1769	1781	2095	1549
4	Before		1733	1781	2095	1549
5	Before		1764	1781	2095	1549
6	Before		-1773	-1781	-1549	-2095
7	Before		1781	1781	2095	1549
		(Minimum) (Nominal) (Maximum)				

Before: 12-Jul-2009 3:18

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M23						
Idx	Phase	HRLT M2–M3 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1738	1781	2095	1549
1	Before		1793	1781	2095	1549
2	Before		1749	1781	2095	1549
3	Before		1770	1781	2095	1549
4	Before		1730	1781	2095	1549
5	Before		1764	1781	2095	1549
6	Before		-1754	-1781	-1549	-2095
7	Before		1781	1781	2095	1549
		(Minimum) (Nominal) (Maximum)				

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High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V34						
Idx	Phase	HRLT A3–A4 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68360	70000	82360	60900
1	Before		70650	70000	82360	60900
2	Before		69170	70000	82360	60900
3	Before		70140	70000	82360	60900
4	Before		68390	70000	82360	60900
5	Before		69680	70000	82360	60900
6	Before		-68180	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
		(Minimum) (Nominal) (Maximum)				

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High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V45						
Idx	Phase	HRLT A3–A4 Voltage Plus UV	Value	Nominal	Maximum	Minimum

Idx	Phase	HRLT A4-A5 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68340	70000	82360	60900
1	Before		70770	70000	82360	60900
2	Before		69260	70000	82360	60900
3	Before		70190	70000	82360	60900
4	Before		68390	70000	82360	60900
5	Before		69660	70000	82360	60900
6	Before		-68320	-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		68600	70000	82360	60900
1	Before		71030	70000	82360	60900
2	Before		69500	70000	82360	60900
3	Before		70440	70000	82360	60900
4	Before		68640	70000	82360	60900
5	Before		69930	70000	82360	60900
6	Before		-68520	-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		-68120	-70000	-60900	-82360
1	Before		-70960	-70000	-60900	-82360
2	Before		-69440	-70000	-60900	-82360
3	Before		-70410	-70000	-60900	-82360
4	Before		-68600	-70000	-60900	-82360
5	Before		-69880	-70000	-60900	-82360
6	Before		68420	70000	82360	60900
7	Before		-70000	-70000	-60900	-82360
			(Minimum)	(Nominal)	(Maximum)	

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High Resolution Laterolog Array - B Wellsite Calibration						
HRLT VBD						
Idx	Phase	HRLT Bridle#9-M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-68130	-70000	-60900	-82360
1	Before		-70950	-70000	-60900	-82360
2	Before		-69440	-70000	-60900	-82360
3	Before		-70410	-70000	-60900	-82360
4	Before		-68610	-70000	-60900	-82360
5	Before		-69880	-70000	-60900	-82360

6	Before		68420	70000	82360	60900
7	Before		-70000	-70000	-60900	-82360
		(Minimum) (Nominal) (Maximum)				

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High Resolution Laterolog Array – B Wellsite Calibration						
HRLT ISO						
Idx	Phase	HRLT Source Current Plus UA	Value	Nominal	Maximum	Minimum
0	Before		283.7	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)				

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High Resolution Laterolog Array – B Wellsite Calibration						
HRLT MV						
Idx	Phase	HRLT Vertical Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-320.2	-322.7	-280.7	-379.7
1	Before		-322.1	-322.7	-280.7	-379.7
2	Before		-313.4	-322.7	-280.7	-379.7
3	Before		-314.7	-322.7	-280.7	-379.7
4	Before		-305.2	-322.7	-280.7	-379.7
5	Before		-325.5	-322.7	-280.7	-379.7
6	Before		328.8	322.7	379.7	280.7
7	Before		-322.7	-322.7	-280.7	-379.7
		(Minimum) (Nominal) (Maximum)				

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

**Primary Equipment:**

HILT high–Resolution Mechanical Sonde	HRMS – H	3846
HILT Rxo Gamma–ray Device	HRGD – H	3824
HILT Micro Cylindrically Focused Log Dev	MCFL – H	
GR Logging Source	GLS – VJ	3856
HILT High Res. Control Cartridge	HRCC – H	3794
HILT Gamma–Ray Neutron Sonde–DTS	HGNS – H	3840
HGNS Gamma–Ray Device	HGR –	
HGNS Neutron Detector with Alpha Source	HCNT – H	

**Auxiliary Equipment:**

Neutron Calibration Tank	NCT – B	2138
Gamma Source Radioactive	GSR – Y	1005
HGNS Housing	HGNH –	2916

High resolution Integrated Logging Tool–DTS Wellsite Calibration											
Stab Measurement Summary											
Phase	BS Window Ratio		Value	Phase	SS Window Ratio		Value	Phase	LS Window Ratio		Value
Before			0.7439	Before			0.4839	Before			0.2954
	0.7073 (Minimum)	0.7445 (Nominal)	0.7817 (Maximum)		0.4591 (Minimum)	0.4832 (Nominal)	0.5074 (Maximum)		0.2779 (Minimum)	0.2926 (Nominal)	0.3072 (Maximum)

Phase	BS Window Sum CPS	Value	Phase	SS Window Sum CPS	Value	Phase	LS Window Sum CPS	Value
Before		27070	Before		11540	Before		1251
	25730 (Minimum)			10980 (Minimum)			1190 (Minimum)	
	27090 (Nominal)			11550 (Nominal)			1253 (Nominal)	
	28440 (Maximum)			12130 (Maximum)			1315 (Maximum)	

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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		1555	Before		1607	Before		1438
	1457 (Minimum)			1508 (Minimum)			1332 (Minimum)	
	1557 (Nominal)			1608 (Nominal)			1432 (Nominal)	
	1657 (Maximum)			1708 (Maximum)			1532 (Maximum)	

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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		12.29	Before		9.168	Before		8.234
	11.45 (Minimum)			8.204 (Minimum)			7.148 (Minimum)	
	12.45 (Nominal)			9.204 (Nominal)			8.148 (Nominal)	
	13.45 (Maximum)			10.20 (Maximum)			9.148 (Maximum)	

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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		3868	Before		3812	Before		3866
	3565 (Minimum)			3524 (Minimum)			3524 (Minimum)	
	3875 (Nominal)			3830 (Nominal)			3830 (Nominal)	
	4185 (Maximum)			4136 (Maximum)			4136 (Maximum)	

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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		8.514	Before		12.40
	6.000 (Minimum)			9.000 (Minimum)	
	8.000 (Nominal)			12.00 (Nominal)	
	10.00 (Maximum)			15.00 (Maximum)	

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High resolution Integrated Logging Tool-DTS Wellsite Calibration					
Detector Calibration					
Phase	Gamma Ray Background GAPI	Value	Phase	Gamma Ray (Jig - Bkgd) GAPI	Value
Before		4.160	Before		184.7
	0 (Minimum)			152.3 (Minimum)	
	30.00 (Nominal)			160.0 (Nominal)	
	120.0 (Maximum)			200.0 (Maximum)	

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High resolution Integrated Logging Tool-DTS Wellsite Calibration					
Zero Measurement					
Phase	CNTC Background CPS	Value	Phase	CFTC Background CPS	Value
Master		28.54	Master		30.72
Before		27.66	Before		29.47
	5.000 (Minimum)			5.000 (Minimum)	
	28.54 (Nominal)			30.72 (Nominal)	
	40.00 (Maximum)			40.00 (Maximum)	

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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		2617	Master		1121	Master		2.335
	4700 (Minimum)			1900 (Minimum)			2.120 (Minimum)	
	5800 (Nominal)			2400 (Nominal)			2.159 (Nominal)	
	6900 (Maximum)			2900 (Maximum)			2.540 (Maximum)	

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High resolution Integrated Logging Tool-DTS Wellsite Calibration

Accelerometer Calibration

Phase	Z-Axis Acceleration M/S2	Value
Before		9.781
	9.610 (Minimum)      9.810 (Nominal)      10.01 (Maximum)	

Before: 12-Jul-2009 0:21

High resolution Integrated Logging Tool-DTS Master Calibration

Inversion results

Phase	Rho Aluminum G/C3	Value	Phase	Rho Magnesium G/C3	Value
Master		2.597	Master		1.688
	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		2.516	Master		2.634
	2.470 (Minimum)      2.570 (Nominal)      2.670 (Maximum)			2.550 (Minimum)      2.650 (Nominal)      2.750 (Maximum)	

Master: 3-Jul-2009 18:59

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		0.2800	Master		0.4310	Master		0.6905
	-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		0.6805	Master		1.992	Master		1.788
	-1.600 (Minimum)      0 (Nominal)      1.600 (Maximum)			-2.500 (Minimum)      0 (Nominal)      2.500 (Maximum)			-3.500 (Minimum)      0 (Nominal)      3.500 (Maximum)	

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High resolution Integrated Logging Tool-DTS Master Calibration

Zero Measurement

Phase	CNTC Background CPS	Value	Phase	CFTC Background CPS	Value
Master		28.54	Master		30.72
	5.000 (Minimum)      28.54 (Nominal)      40.00 (Maximum)			5.000 (Minimum)      30.72 (Nominal)      40.00 (Maximum)	

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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	<b>EXCEEDS LIMIT</b>	2617	Master	<b>EXCEEDS LIMIT</b>	1121	Master		2.335
	4700 (Minimum)      5800 (Nominal)      6900 (Maximum)			1900 (Minimum)      2400 (Nominal)      2900 (Maximum)			2.120 (Minimum)      2.159 (Nominal)      2.540 (Maximum)	

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DTS Telemetry Tool / Equipment Identification

Primary Equipment:

DTC-H Auxiliary Cartridge  
DTC-H Telemetry Cartridge

DTCH - A  
DTCH - A

Auxiliary Equipment:

DTCH Telemetry Cartridge Housing

ECH - KC      9799

Company: **CDEX**

**Schlumberger**

Well: **C0009A**

Field: **Kumanonada, Offshore Kii peninsula**

Rig: **Chikyu**

Country: **JAPAN**

TLD-CNL-GR

3652.9m – 2785.0m

Suite 1, Run 1 (1:500)