

Company: CDEX
Well: C0009A
Field: Kumanonada, Offshore Kii peninsula
Rig: Chikyu
Country: JAPAN

Rig: Chikyu Field: Kumanonada, Offshore Kii peninsula Location: NanKai Trough Well: C0009A Company: CDEX		EMS-HRLA-MCFL-DT-GR-SF 3665.4m - 2785.0m Suite 1, Run 1 (1:500)	
LOCATION Nankai Trough NT2-11B		Elev.: K.B. G.L. D.F. 28.30 m	
Permanent Datum: _____ Log Measured From: _____ Drilling Measured From: _____		MEAN SEA LEVEL _____ DRILL FLOOR _____ DRILL FLOOR _____ Elev.: 28.30 m 0.00 m above Perm. Datum	
Prefecture: Wakayama Max. Well Deviation 0.7 deg		Longitude 136° 32.1489' E Latitude 33° 27.4704' N	

Logging Date	12-Jul-2009	
Run Number	1	
Depth Driller	3666 m	
Schlumberger Depth	3667 m	
Bottom Log Interval	3665.4 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
Circulation Stopped	11-Jul-2009	5:30
Logger On Bottom	11-Jul-2009	4:45
Unit Number	4308	JPOP
Recorded By	Payap Thongpracharn	
Witnessed By	T. Honda / K. Takahashi	

Logging Date	12-Jul-2009		Run 1	Run 2	Run
Run Number	1				
Depth Driller	3666 m				
Schlumberger Depth	3667 m				
Bottom Log Interval	3665.4 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			
Circulation Stopped	11-Jul-2009	5:30			
Logger On Bottom	11-Jul-2009	4:45			
Unit Number	4308	JPOP			
Recorded By	Payap Thongpracharn				
Witnessed By	T. Honda / K. Takahashi				

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.

DISCLAIMER

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

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

DTCO data was taken from Run 2 (FMI-HNGS-EMS-SonicScanner-PPC-GR) as per client request.

Caliper check in casing = 18.75 inch.

Sonic check in casing = 57 us/ft.

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

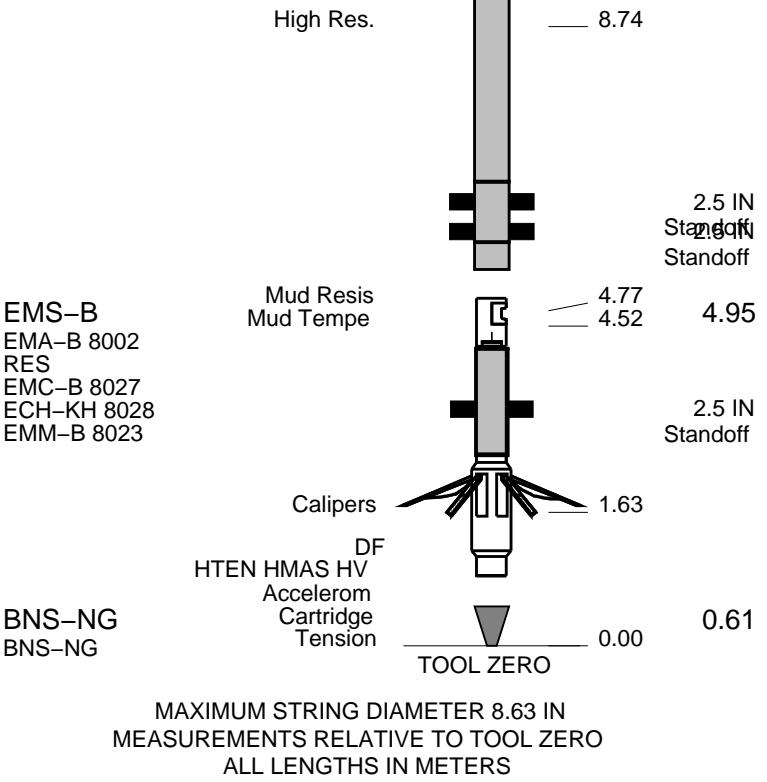
EQUIPMENT DESCRIPTION

RUN 1 **RUN 2**

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

DOWNHOLE EQUIPMENT

<p>LEH-QT LEH-QT 1794</p> <p>23.60</p> <p>AH-369</p> <p>22.71</p> <p>DTC-H ECH-KC 9799 DTCH0-A</p> <p>CTEM TelStatus ToolStatu</p> <p>22.00 22.28 0.5 IN Standoff</p> <p>21.36</p> <p>SPA-A SPA-A 9933</p> <p>SP SPARC HGNS HTEM HMCA</p> <p>20.75 21.36 20.14</p> <p>HILTH-FTB HGNSD-H 3840 HMCA-H HGNH 2916 NLS-KL 5228 NSR-F 5228 HACCZ-H HCNT-H HGR HRCC-H 3794 HRMS-H 3846 HRGD-H 3824 GLS-VJ 3804 MCFL Device-H HILT Nucl. LS-H HILT Nucl. SS-H HILT Nucl. BS-H BOW-SPR</p> <p>HGNS Gamm</p> <p>19.92 20.14</p> <p>HGNS Neut HGNS Neut</p> <p>18.14 17.99</p> <p>HGNS sens</p> <p>17.27</p> <p>HRCC cart</p> <p>16.06</p> <p>MCFL HILT cali</p> <p>14.40 14.25</p> <p>HRDD-LS HRDD-SS HRDD-BS</p> <p>14.13</p> <p>AH-184 AH-184 936</p> <p>13.54</p> <p>AH-184 AH-184 917</p> <p>12.93</p> <p>HRLT-B HRUH-B 755 HRUC-B 755 HRLS-B 846 HRLH-B 849 HRLC-B 847 AH-270 846</p> <p>12.32</p> <p>2.5 IN Standoff</p>	<p>LEH-QT LEH-QT 1296</p> <p>31.77</p> <p>MDSB_EDTC Mud Tempe</p> <p>30.88</p> <p>CTEM</p> <p>29.81 30.88</p> <p>Gamma Ray</p> <p>29.24</p> <p>TelStatus</p> <p>EDTCB Ele</p> <p>28.90</p> <p>Calipers</p> <p>28.55 28.90</p> <p>PPC1-B PPC1-B 8169 PPC_CAL_STD</p> <p>26.91</p> <p>PPC_Cartr</p> <p>26.91</p> <p>MAPC-B MAPC-BA 8038 ECH-SF 8038 MAMS-BA 8048</p> <p>2.5 IN Standoff</p> <p>2.5 IN Standoff</p> <p>MAMS-PS</p> <p>22.20</p> <p>2.5 IN Standoff</p> <p>20.50</p> <p>MAXS-B MASS-BA 8038 MAXS-BA 8044</p> <p>MAXS-PS Mud Resis Mud Tempe</p> <p>14.33 14.15 13.90 14.33</p> <p>EMS-B EMA-B 8002 RES EMC-B 8027 ECH-KH 8028</p>
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EMS-B
EMA-B 8002
RES
EMC-B 8027
ECH-KH 8028
EMM-B 8023

BNS-NG
BNS-NG

AH192 8016
HNGS-BA
HNGS-BA 164
HNSH-BA 161

HNGC-B
HNGH-A 358

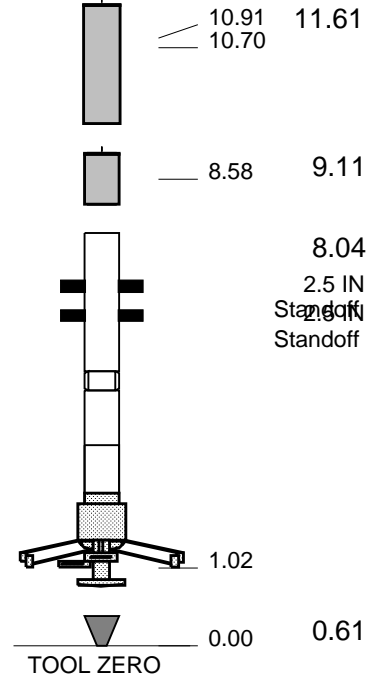
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ECH-MRA 4811
FBCC-A 819
AH-185 938
FBSH-A 815
GPIC-C 1843
FBSC-B 816
FBSS-B 816

BNS-NG

Upper_1
Lower_2

HNGC Stat

PADS
FBCC FBSC
DF ACCZ
Cartridge HV
Tension GPIT

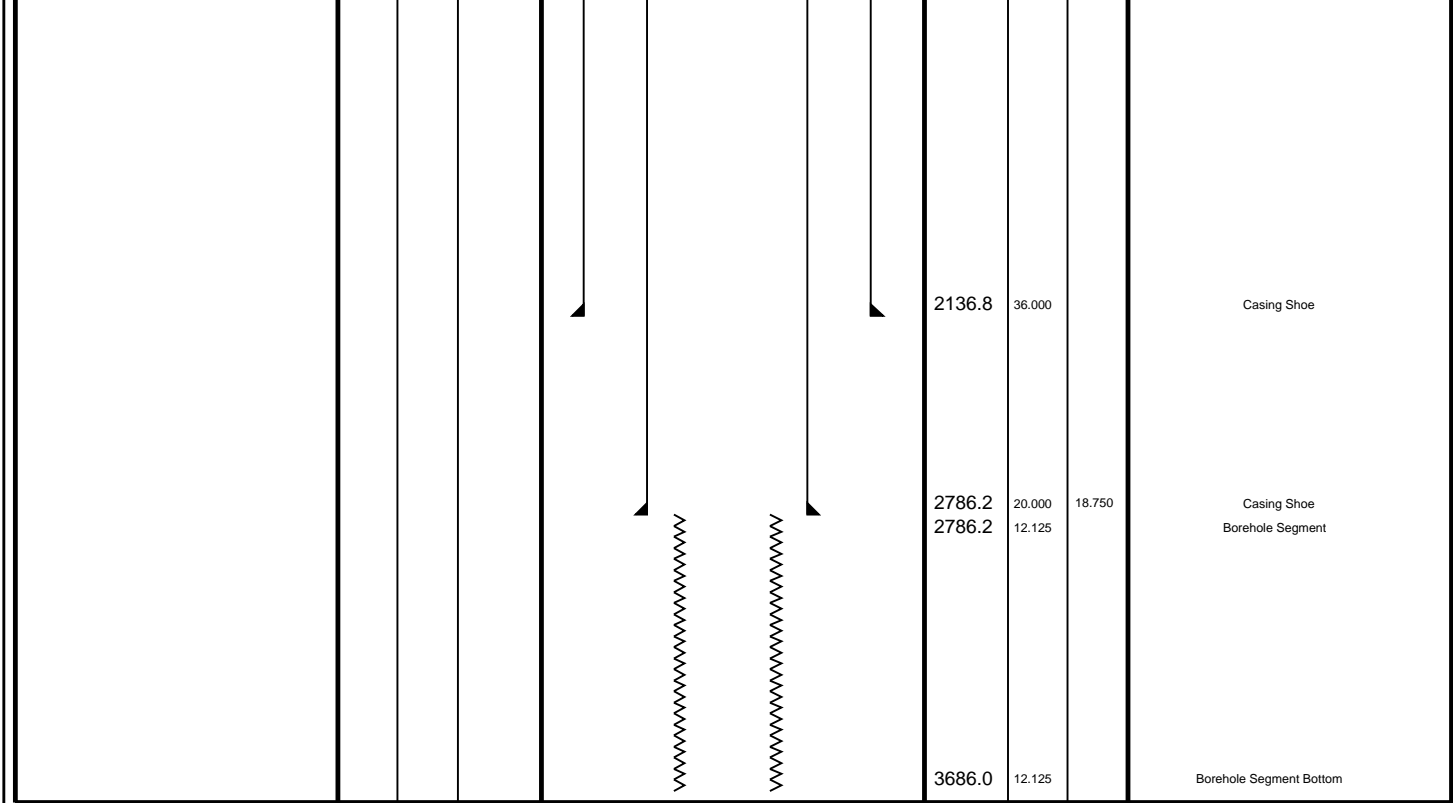


Client: CDEX
Well: C0009A
Field: Nankai Trough
State: Wakayama
Country: JAPAN

Drawing Date: 7/11/2009

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

Production String	(in)			Well Schematic	(m)			Casing String
	OD	ID	MD		MD	OD	ID	
				<p>Derrick Floor Elevation: 28.3</p> <p>Mean Sea Level: 0.0</p> <p>Casing String Start: 2082.3</p>				
					2082.3	36.000		



**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	2761.3 M
CLIENT	EMS_HRLA_TLD_MCFL_029PUC	FN:66	CUSTOMER	13-Aug-2009 13:36	3670.2 M	2761.3 M

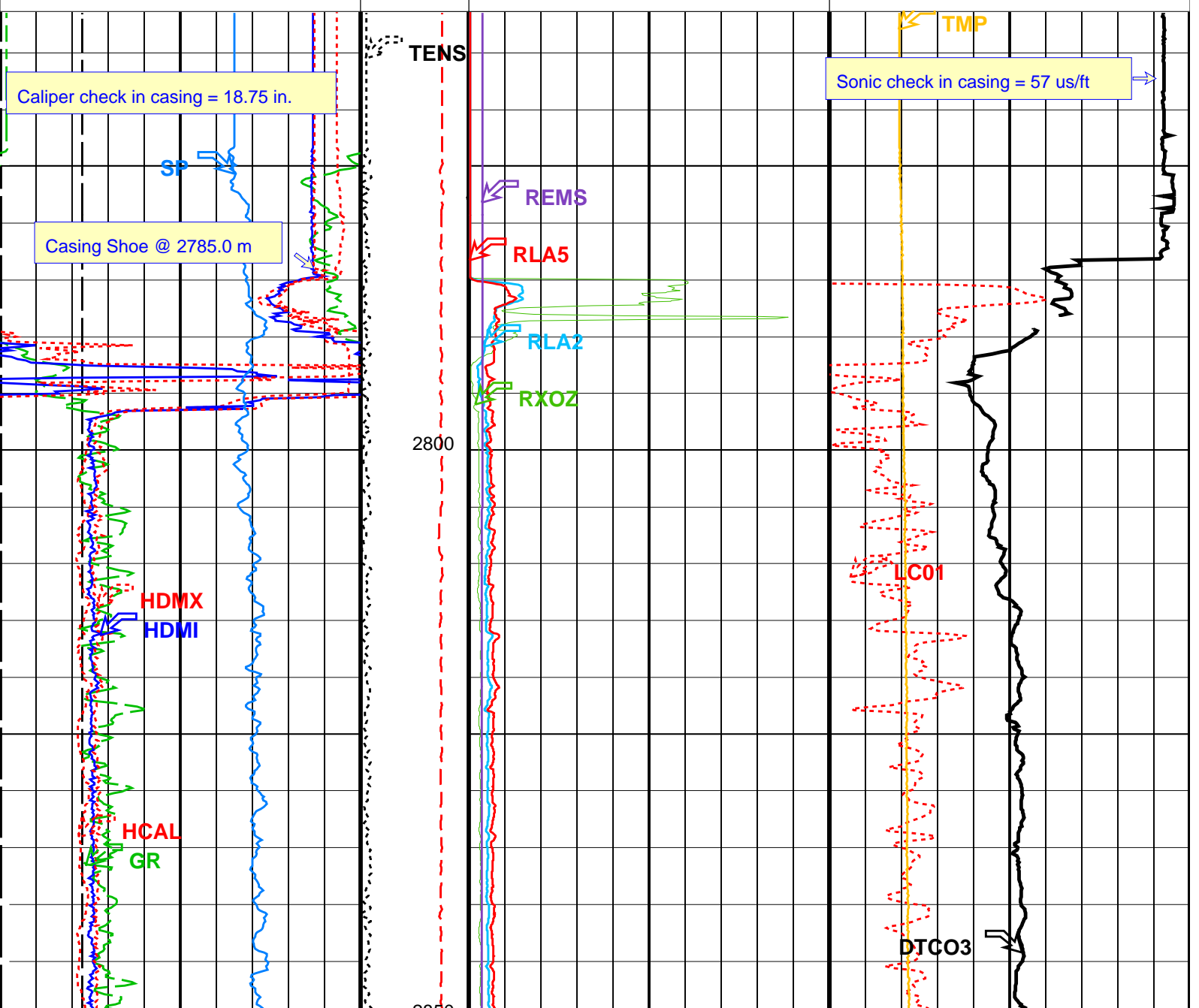
OP System Version: 17C0-154

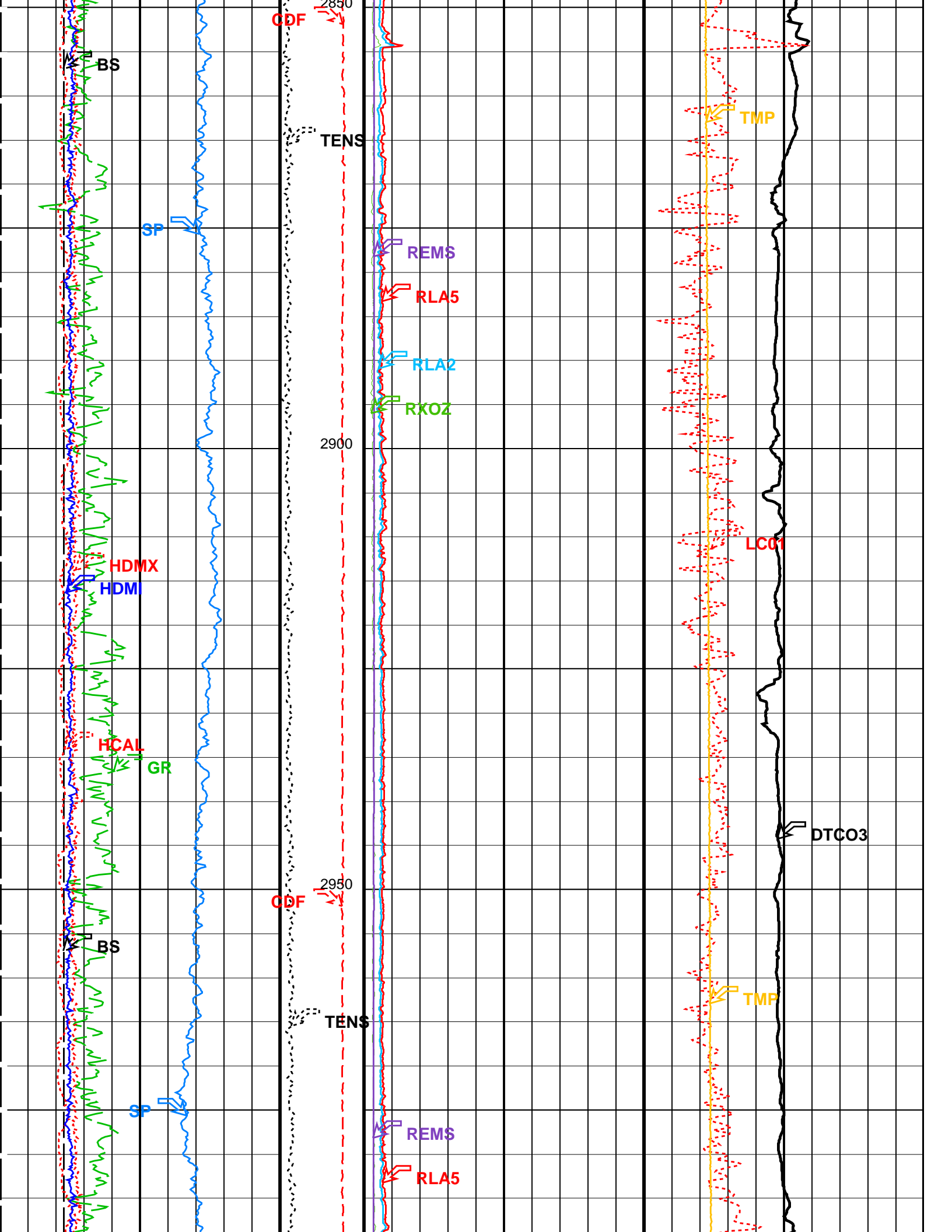
EMS-B	17C0-154	HRLT-B	17C0-154
HILTH-FTB	17C0-154	SPA-A	17C0-154
DTC-H	17C0-154	MAXS-B	SKK-3704-MAST
MAPC-B	SKK-3704-MAST		

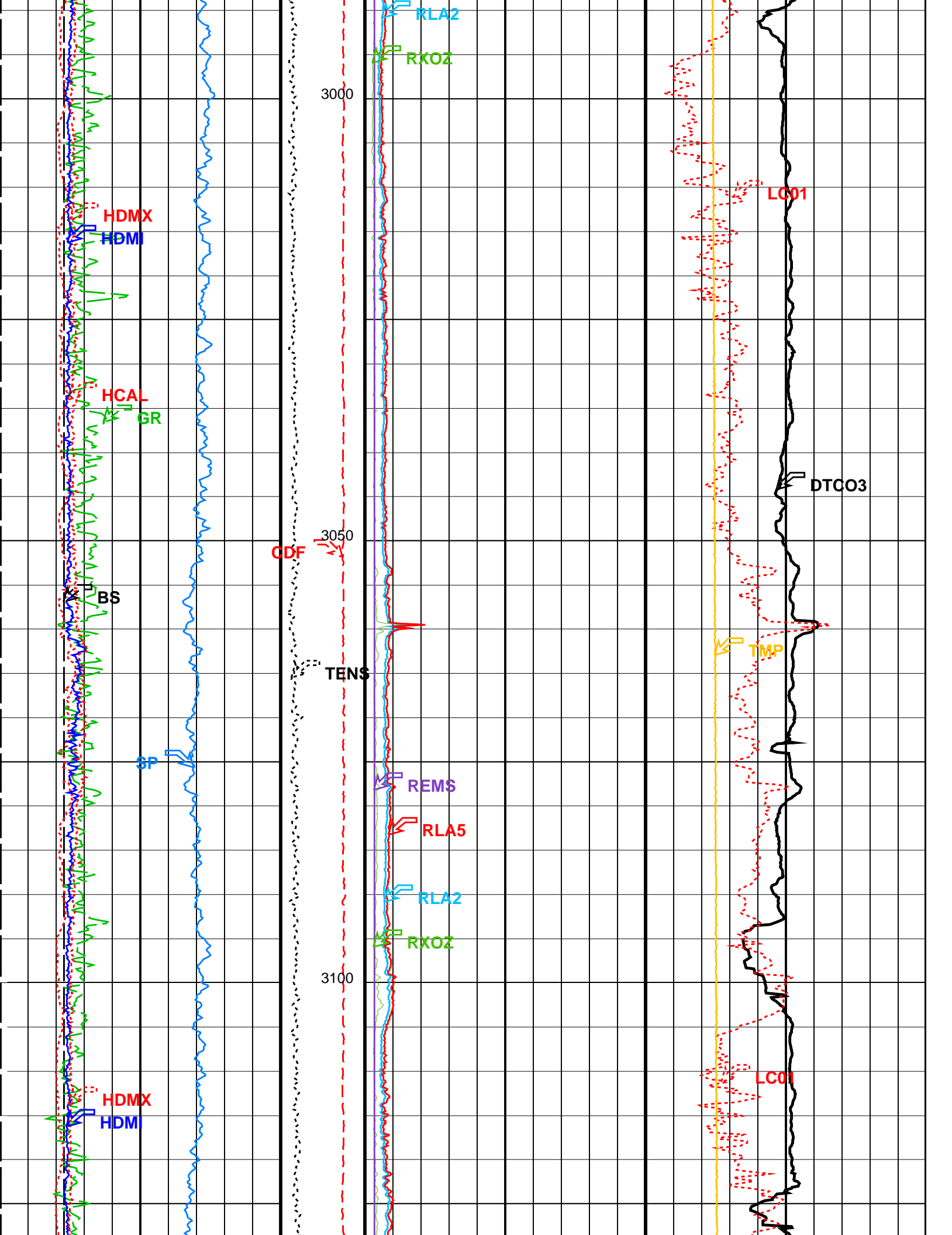
PIP SUMMARY

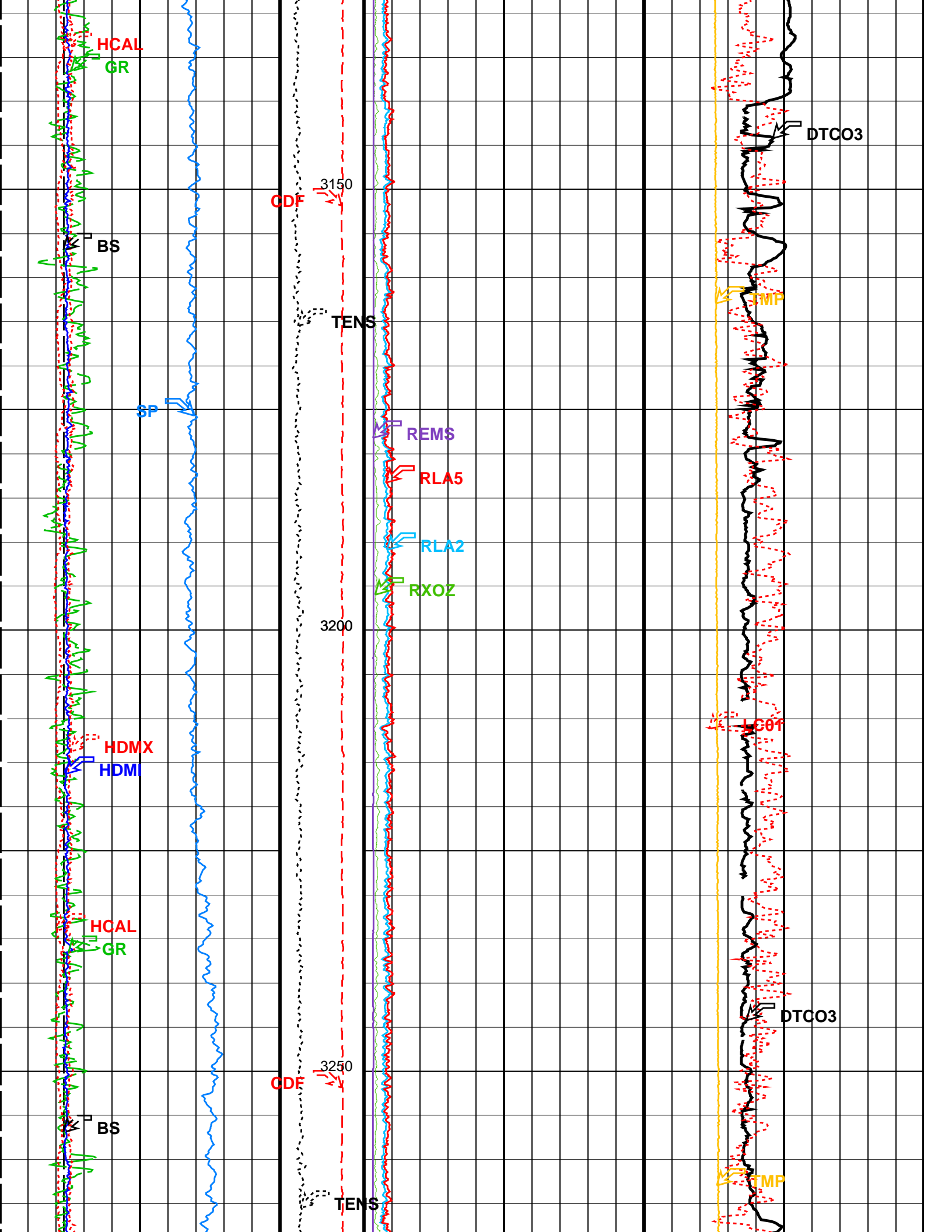
Time Mark Every 60 S

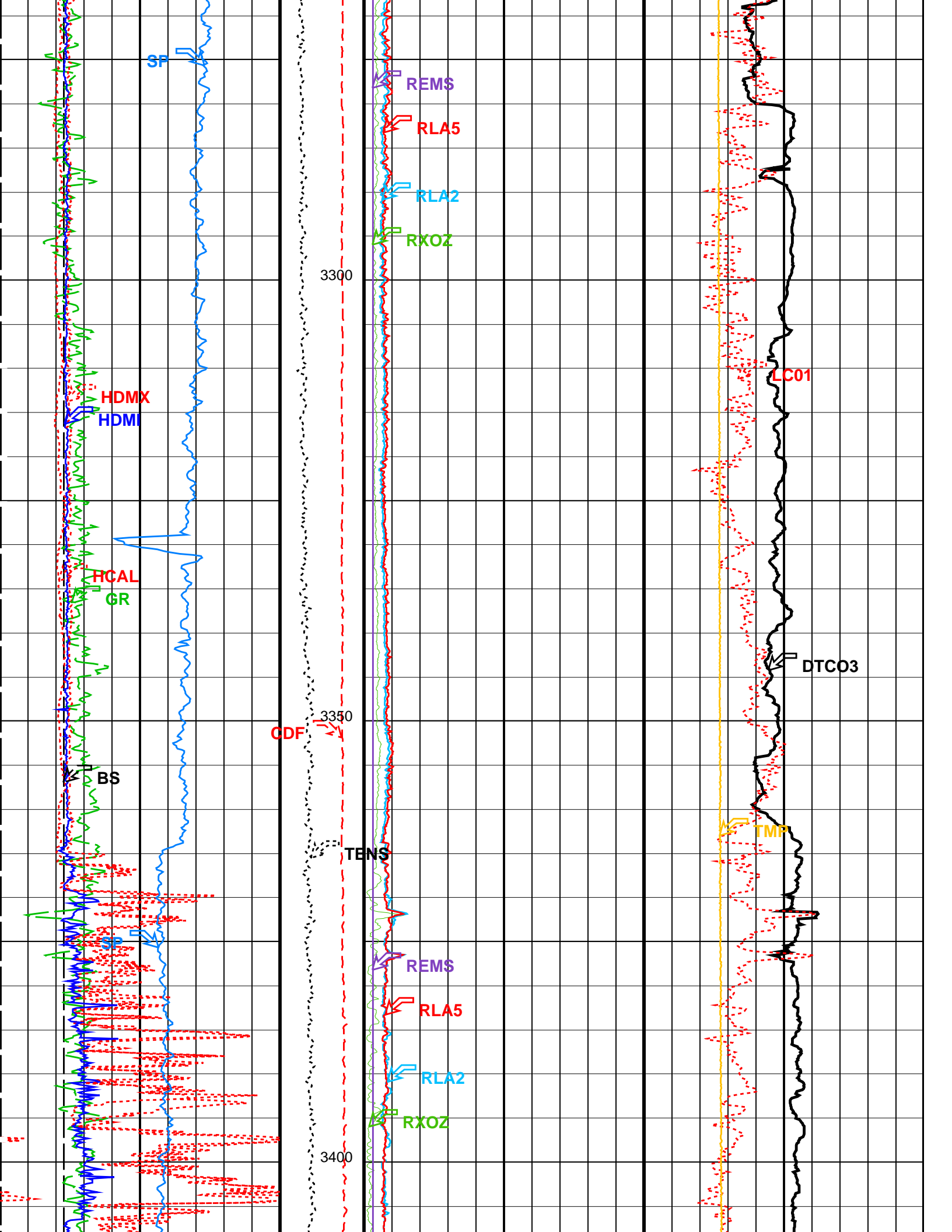
SP (SP) (MV)		-80		20	
Hole Diameter Maximum (HDMX) (IN)		10		20	
Hole Diameter Minimum (HDMI)		10		20	
HILT Caliper (HCAL) (IN)		10		20	
Gamma Ray (GR) (GAPI)		50		150	
Bit Size (BS) (IN)		10		20	
Mud Resistivity (REMS) (OHMM)		0		2	
HRLT Resistivity 5 (RLA5) (OHMM)		0		20	
Mud Temperature (TMP) (DEGC)		0		100	
Calibrated Downhole Force (CDF) (LBF)		-200		1800	
HRLT Resistivity 2 (RLA2) (OHMM)		0		20	
HRLT Conductivity (LC01) (MM/M)		1000		0	
Tension (TENS) (LBF)		0		2000	
Std. Res. Invaded Zone Resistivity (RXOZ) (OHMM)		0		20	
Compressional Slowness 3 (DTCO3) (US/F)		240		40	

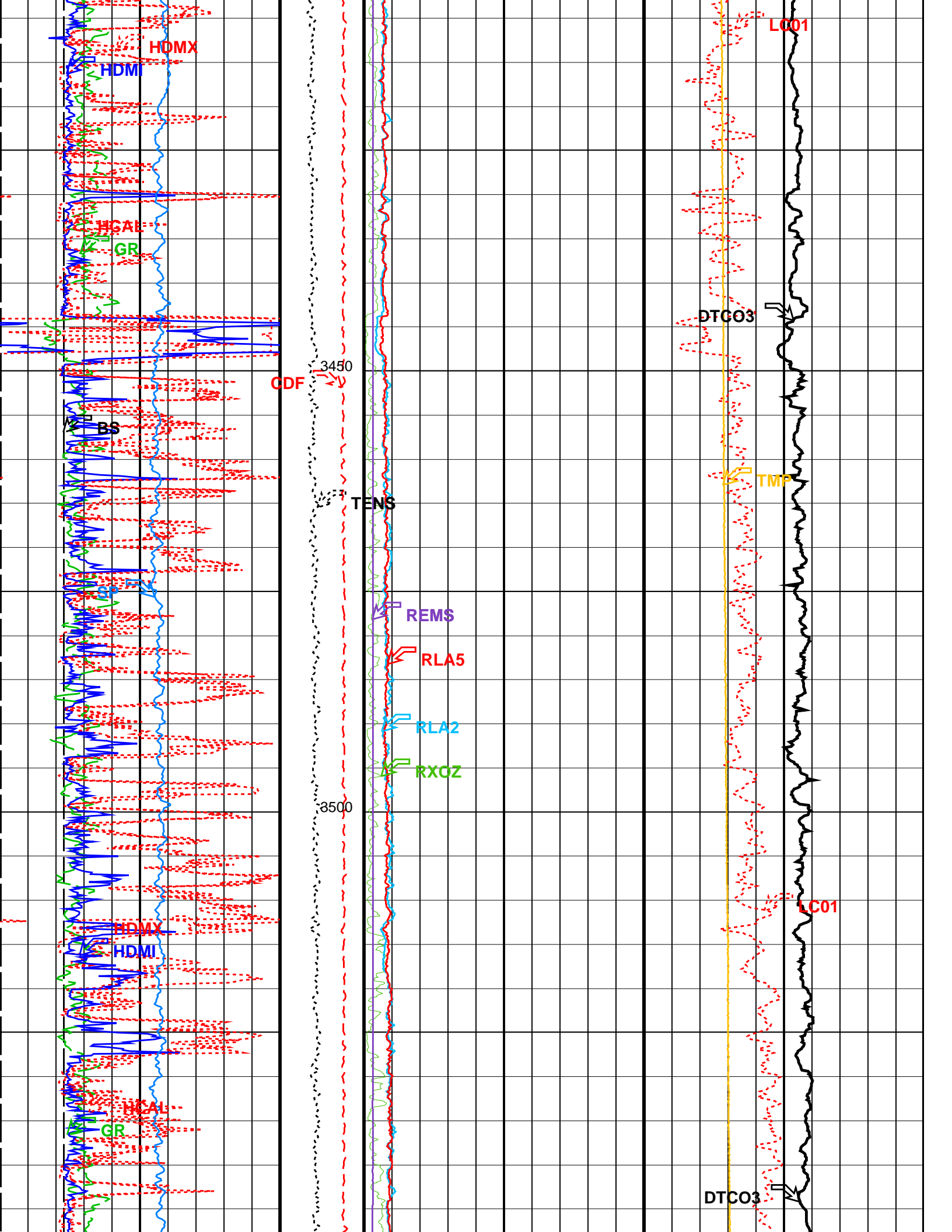


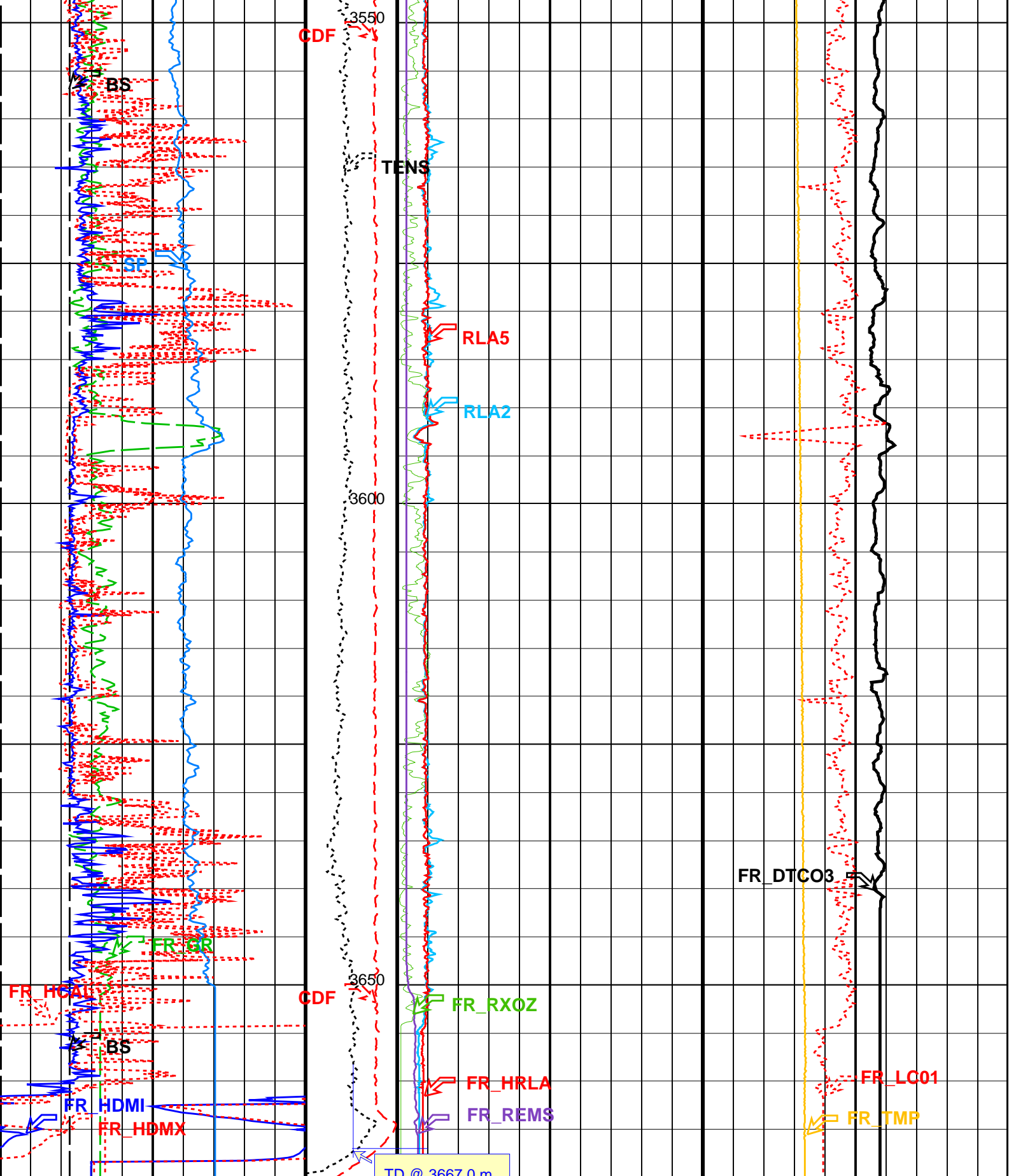












<p>Bit Size (BS) (IN)</p> <p>10 20</p>	<p>Tension (TENS) (LBF)</p> <p>0 2000</p> <p>Std. Res. Invaded Zone Resistivity (RXOZ) (OHMM)</p> <p>0 20</p>	<p>Compressional Slowness 3 (DTCO3) (US/F)</p> <p>240 40</p>
<p>Gamma Ray (GR) (GAPI)</p> <p>50 150</p>	<p>Calibrated Downhole Force (CDF)</p> <p>0 20</p> <p>HRLT Resistivity 2 (RLA2) (OHMM)</p> <p>0 20</p>	<p>HRLT Conductivity (LC01) (MM/M)</p> <p>1000 0</p>

	(LBF)			
	-200	1800		
HILT Caliper (HCAL)			HRLT Resistivity 5 (RLA5)	Mud Temperature (TMP)
10 (IN) 20			0 (OHMM) 20	0 (DEGC) 100
Hole Diameter Minimum (HDMI)			Mud Resistivity (REMS)	
10 (IN) 20			0 (OHMM) 2	
Hole Diameter Maximum (HDMX)				
10 (IN) 20				
SP (SP)				
-80 (MV) 20				

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
EMS-B: Environment Measurement Sonde		
ECOF	EMS Caliper Offset	2 IN
EFC	EMS Fixed Caliper Operation	OFF
EMUD	EMS Mudcake Correction	OFF
HRLT-B: High Resolution Laterolog Array - B		
BHS	Borehole Status	OPEN
KFAC_HRLT	HRLT K Factor Option	SONDE
HILTH-FTB: High resolution Integrated Logging Tool-DTS		
BHS	Borehole Status	OPEN
MPOF	MCFL Processing Operation Mode	ON
SPA-A: SP ADAPTOR		
SPNV	SP Next Value	0 MV
MAPC-B: Multimode Array Sonic Power Cartridge		
BHS	Borehole Status	OPEN
BS	Bit Size	12.250 IN
DCRMVL	DC Offset Removal Option	DC_MULTIPLE
DLHS	Hole Diameter Source for SOBS Channel	AUTO
DTF	Delta-T Fluid	190 US/F
System and Miscellaneous		
DO	Depth Offset for Playback	0.0 M
DORL	Depth Offset for Repeat Analysis	0.0 M
PP	Playback Processing	OFF

Format: HRLA-MCFL-DT-GR-SP 500 Vertical Scale: 1:500 Graphics File Created: 13-Aug-2009 13:36

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		

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

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
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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

High Resolution Laterolog Array – B Wellsite Calibration – HRLT VTP

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 – 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.
 Thermal Housing Size 3.375 IN.
 NSR–F serial number 5228

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
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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)				

Before: 12-Jul-2009 3:18

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)				

Before: 12-Jul-2009 3:18

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V45						
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)	

Before: 12-Jul-2009 3:18

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)	

Before: 12-Jul-2009 3:18

High Resolution Laterolog Array – B Wellsite Calibration						
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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)				

Before: 12-Jul-2009 3:18

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) 27090 (Nominal) 28440 (Maximum)			10980 (Minimum) 11550 (Nominal) 12130 (Maximum)			1190 (Minimum) 1253 (Nominal) 1315 (Maximum)	

Before: 12-Jul-2009 0:20

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) 1557 (Nominal) 1657 (Maximum)			1508 (Minimum) 1608 (Nominal) 1708 (Maximum)			1332 (Minimum) 1432 (Nominal) 1532 (Maximum)	

Before: 12-Jul-2009 0:20

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) 12.45 (Nominal) 13.45 (Maximum)			8.204 (Minimum) 9.204 (Nominal) 10.20 (Maximum)			7.148 (Minimum) 8.148 (Nominal) 9.148 (Maximum)	

Before: 12-Jul-2009 0:20

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)	3875 (Nominal)	4185 (Maximum)	3524 (Minimum)	3830 (Nominal)	4136 (Maximum)	3524 (Minimum)	3830 (Nominal)	4136 (Maximum)

Before: 12-Jul-2009 1:48

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)	8.000 (Nominal)	10.00 (Maximum)	9.000 (Minimum)	12.00 (Nominal)	15.00 (Maximum)

Before: 12-Jul-2009 0:30

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)	30.00 (Nominal)	120.0 (Maximum)	152.3 (Minimum)	160.0 (Nominal)	200.0 (Maximum)

Before: 12-Jul-2009 0:21

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)	28.54 (Nominal)	40.00 (Maximum)	5.000 (Minimum)	30.72 (Nominal)	40.00 (Maximum)

Master: 29-Jun-2009 23:18

Before: 12-Jul-2009 0:22

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	EXCEEDS LIMIT	2617	Master	EXCEEDS LIMIT	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)

Master: 29-Jun-2009 23:18

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		2617	Master		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		DTCH - A	
DTC-H Telemetry Cartridge		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**

EMS-HRLA-MCFL-DT-GR-SF

3665.4m - 2785.0m

Suite 1, Run 1 (1:500)