

Schlumberger

Company: **CDEX**

Well: **C0009A**

Field: **Kumanonada, Offshore Kii peninsula**

Rig: **Chikyu**

Country: **JAPAN**

CDEX

C0009A

Kumanonada, Offshore Kii peninsula

Country: **JAPAN**

[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					

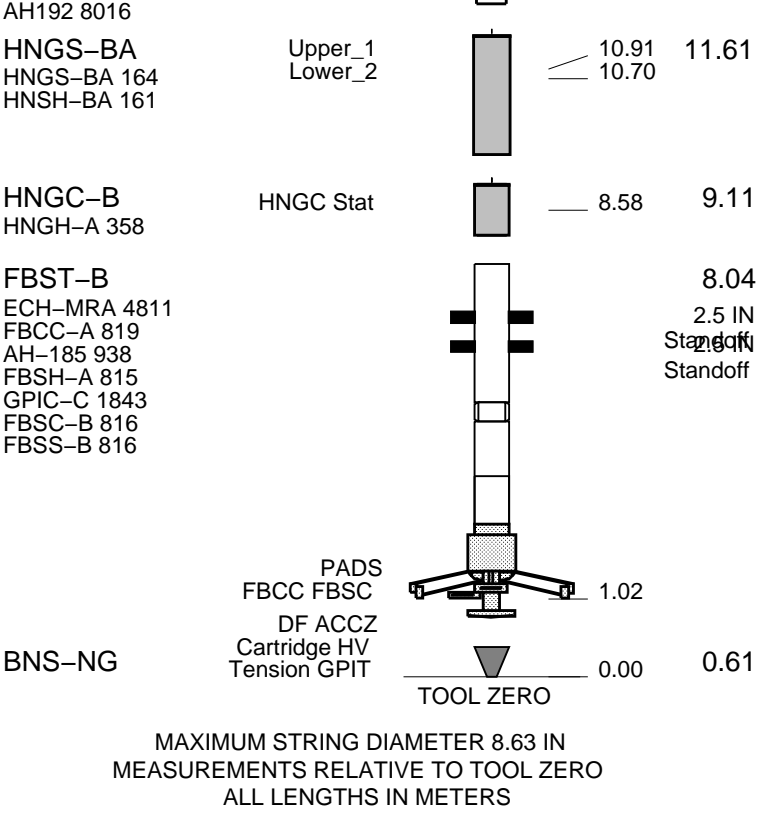
OTHER SERVICES1
OS1: EMS-HRLA-TLD-CNL-GR-SF
OS2: MDT Dual Packer & Single Probe
OS3:
OS4:
OS5:
REMARKS: RUN NUMBER 1
This is the subsequence run in the well.
The depth correlated with EMS-HRLA-TLD-CNL-GR-SP log on 11-Jul-09.
Tool ran as per tool sketch and 2.5 inch standoffs used.
Maximum recorded temperature from logging head thermometers = 33.89 degC.
Maximum deviation = 0.70 deg @ 2749.79mBRT.
Logging speed was 1,000 ft/hr.
Repeat section was taken from 2900.0m – 2850.0m as per client request

Repeat section was taken from 2009.01.20 00:00:00 as per client request.					
PPC used as for borehole measurement as well as tool centerization for Sonic Scanner.					
Sonic check in casing = 57 us/ft.					
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 #:		ADVO-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					
GSR-Y 1005 WITM (EDTS)-A					
DOWNHOLE EQUIPMENT					
LEH-QT LEH-QT 1296	MDSB_EDTC Mud Tempe	31.77			
EDTC-B EDTH-B 8206 EDTC-BB 8218 EDTG-A/B 8215	CTEM Gamma Ray TelStatus EDTCB Ele	30.88			
PPC1-B PPC1-B 8169 PPC_CAL_STD	Calipers PPC_Cartr	28.90			
MAPC-B MAPC-BA 8038 ECH-SF 8038 MAMS-BA 8048		26.91			
		2.5 IN Standoff			
	MAMS-PS	22.20			
		2.5 IN Standoff			
MAXS-B MASS-BA 8038 MAXS-BA 8044		20.50			
		2.5 IN Standoff			
		2.5 IN Standoff			
	MAXS-PS	14.33			
	Mud Resis	14.15			
	Mud Tempe	13.90			
EMS-B EMA-B 8002 RES EMC-B 8027 ECH-KH 8028		14.33			

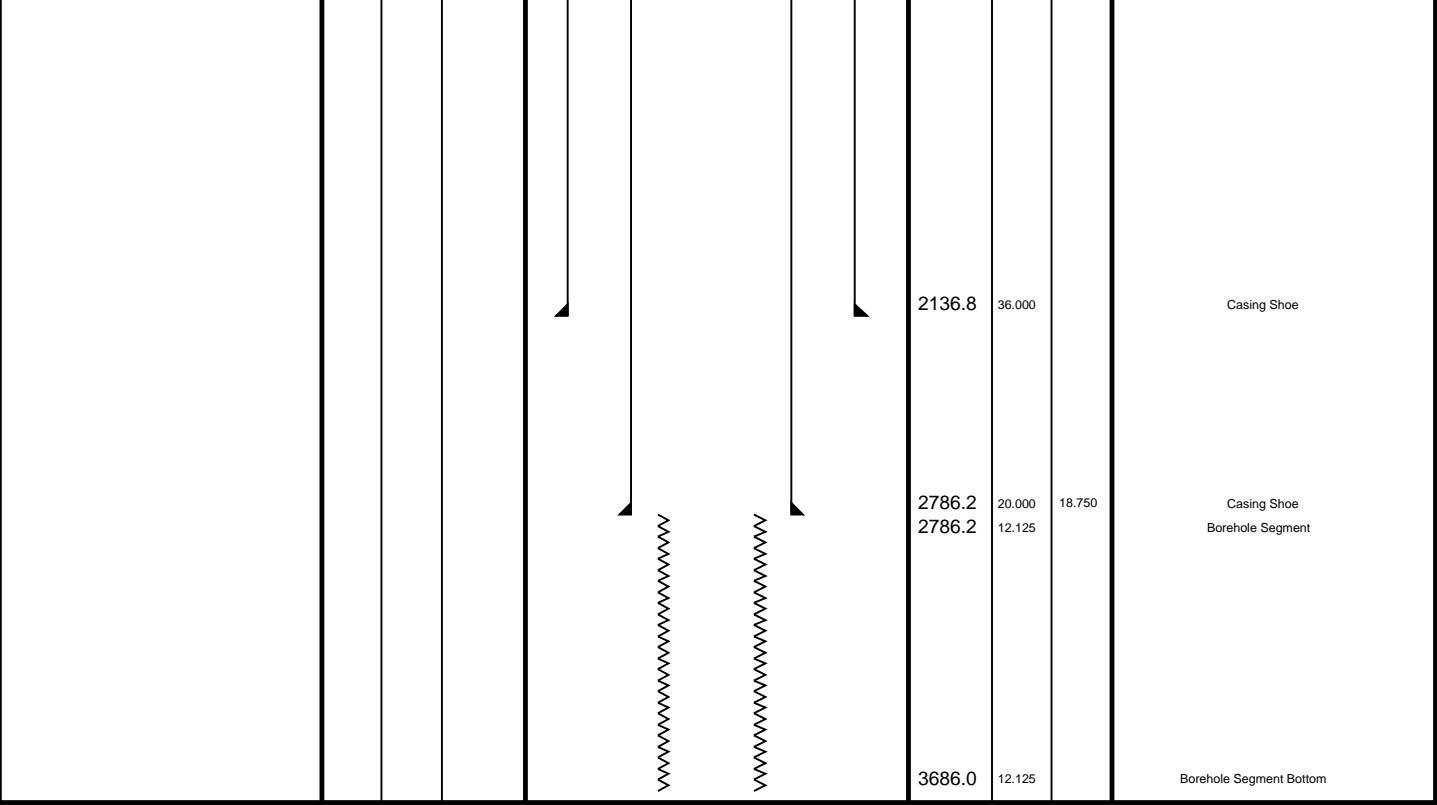


Client: CDEX
 Well: C0009A
 Field: Nankai Trough
 State: Wakayama
 Country: JAPAN

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	
Derrick Floor Elevation			28.3					
			0.0					
Mean Sea Level					2082.3	36.000		Casing String



Main Log
1:500

MAXIS Field Log

Company: CDEX Well: C0009A

Input DLIS Files						
DEFAULT	FMI_NGS_EMS_MAXS_038LUP	FN:114	PRODUCER	13-Jul-2009 17:16	3659.9 M	2752.6 M
Output DLIS Files						
DEFAULT	FMI_EMS_MAXS_MAPC_012PUP	FN:42	PRODUCER	10-Aug-2009 18:37	3662.2 M	2755.8 M
CLIENT	FMI_EMS_MAXS_MAPC_012PUC	FN:43	CUSTOMER	10-Aug-2009 18:37	3662.2 M	2755.8 M

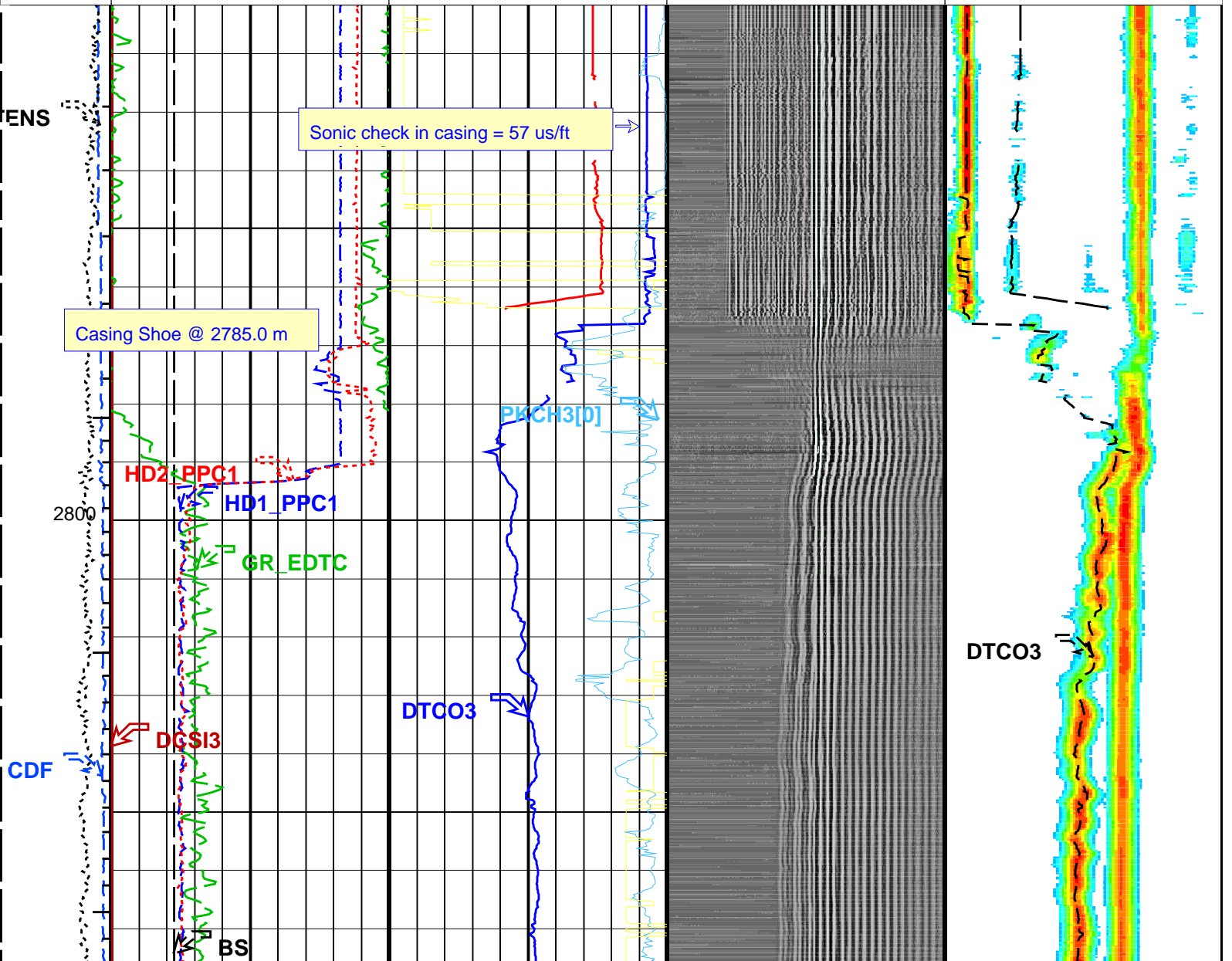
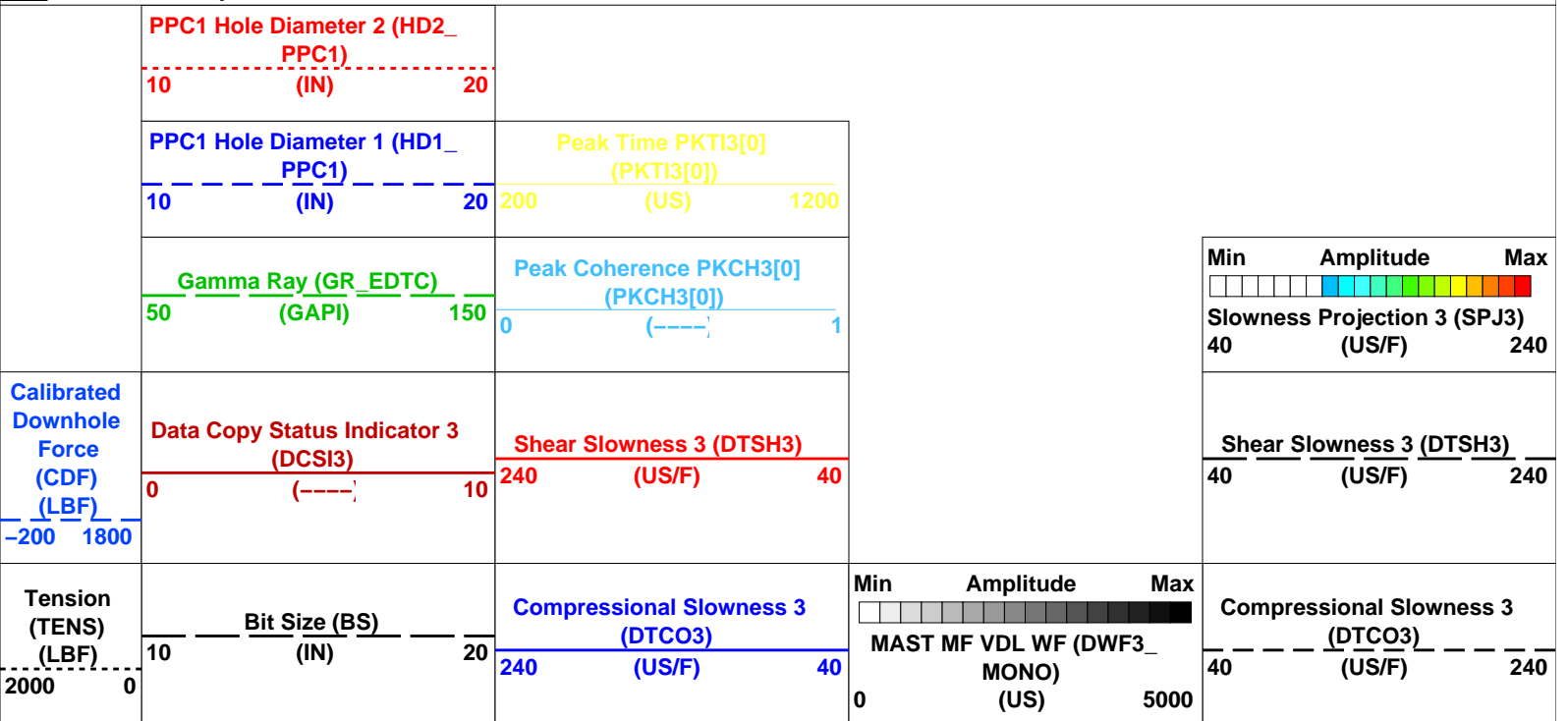
OP System Version: 17C0-154			
FBST-B	17C0-154	EMS-B	17C0-154
MAXS-B	SKK-3704-MAST	MAPC-B	SKK-3704-MAST
PPC1-B	17C0-154	EDTC-B	17C0-154

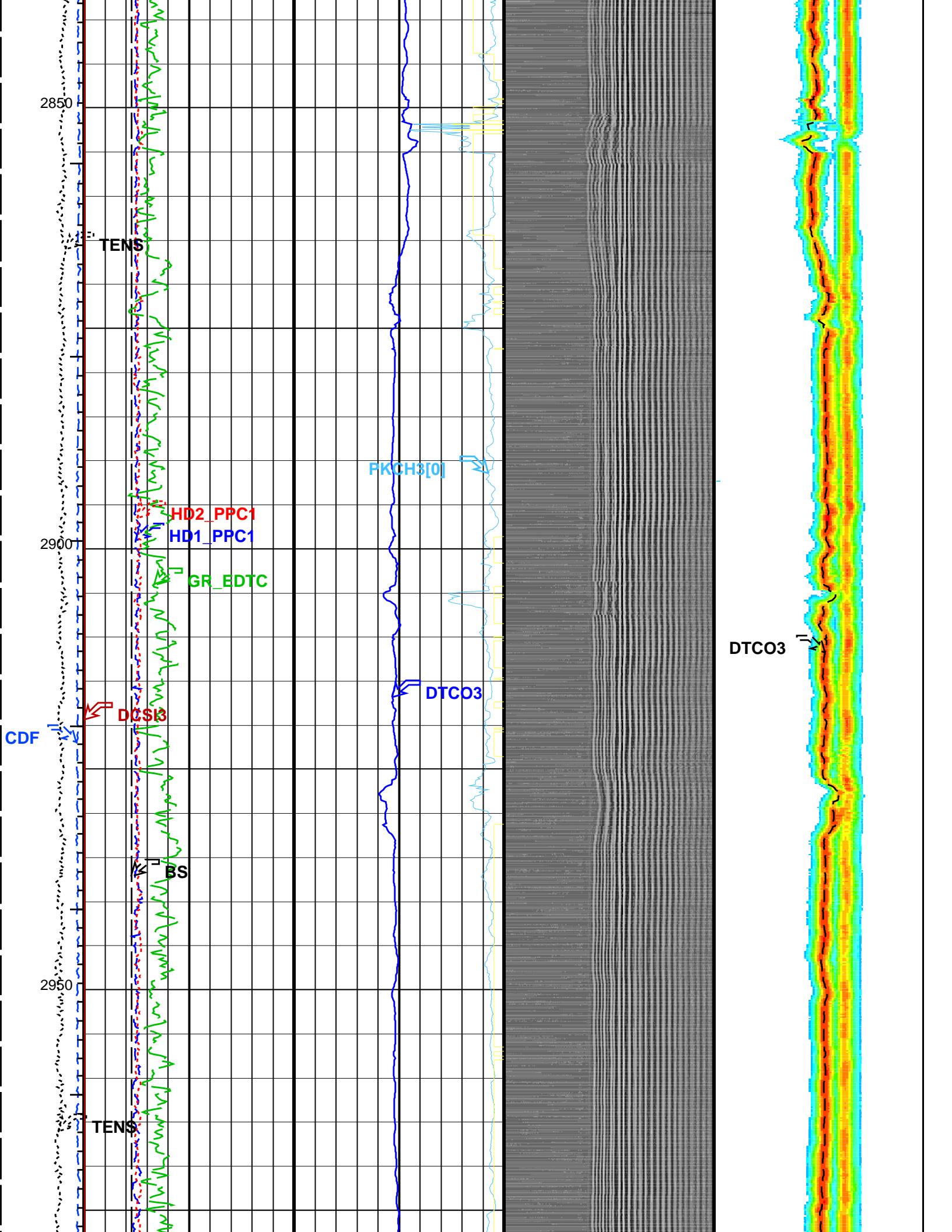
PIP SUMMARY

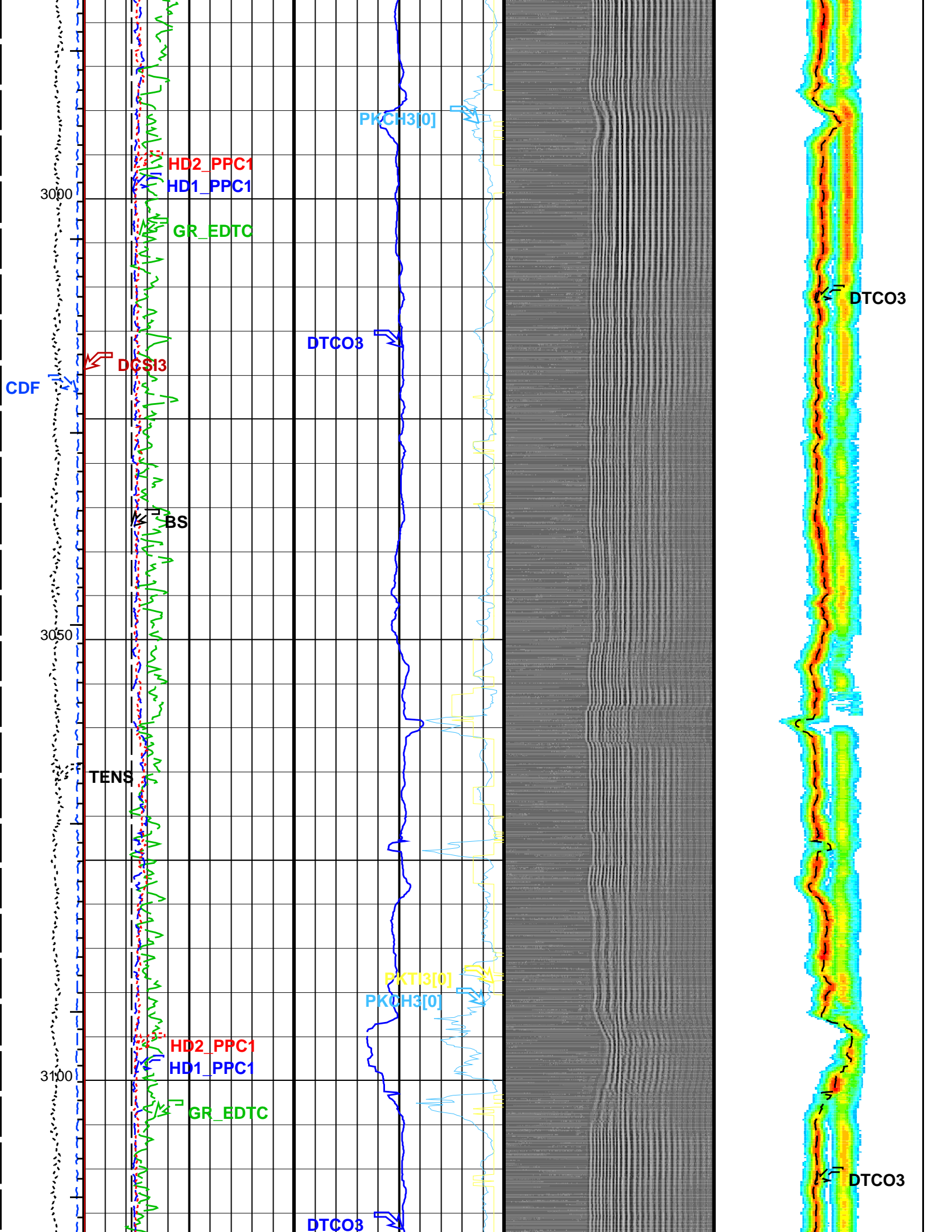
└ Integrated Transit Time Minor Pip Every 1 MS

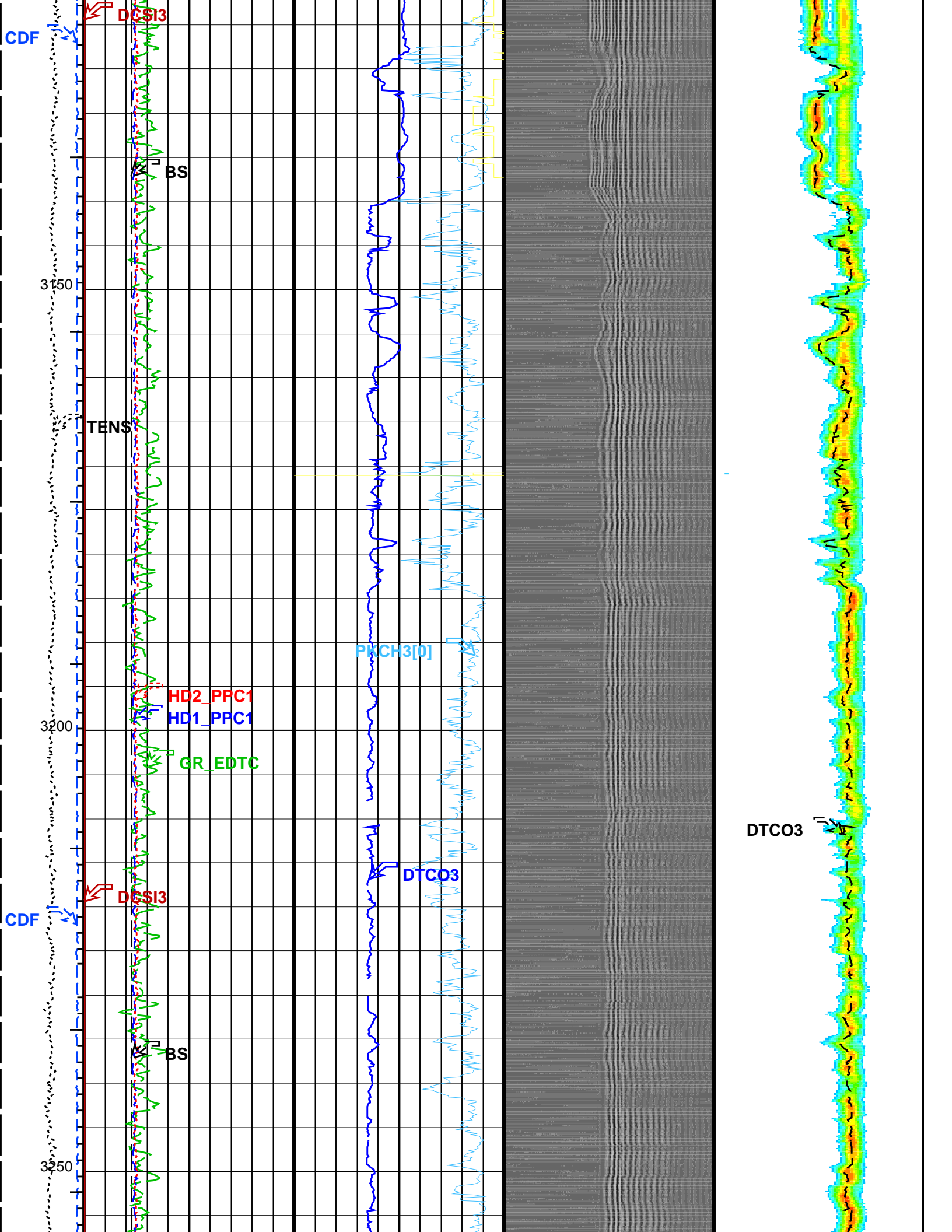
└ Integrated Transit Time Major Pip Every 10 MS

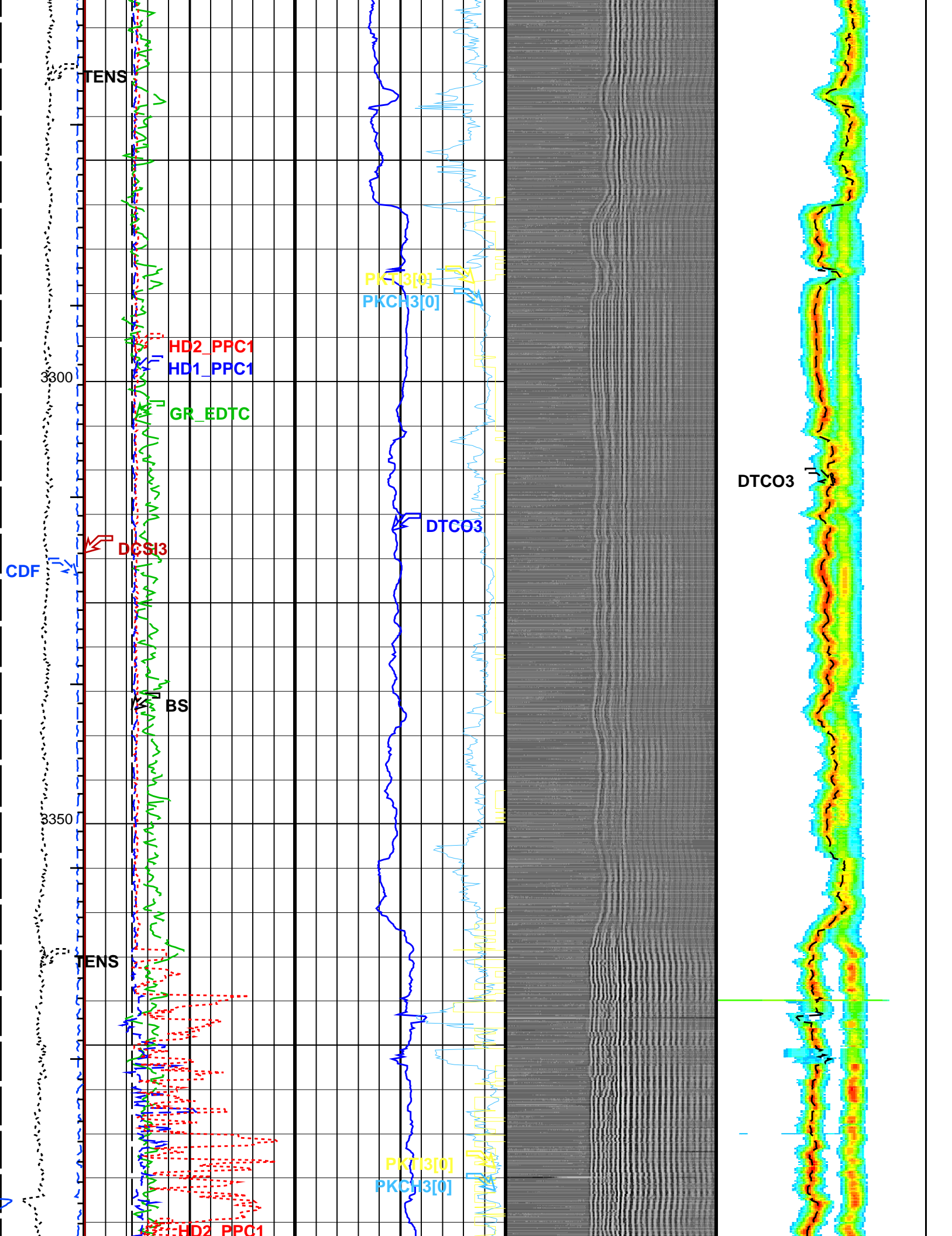
Time Mark Every 60 S

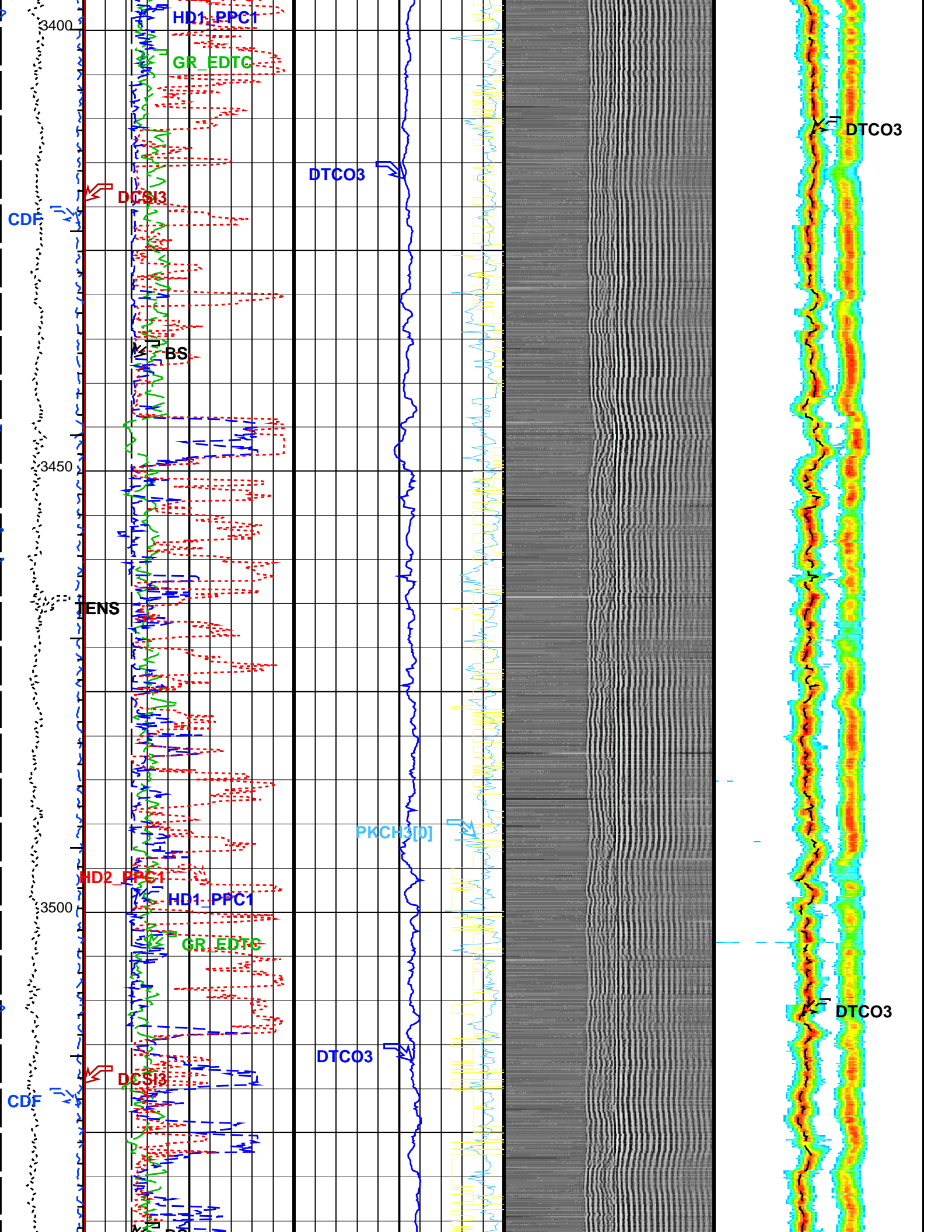


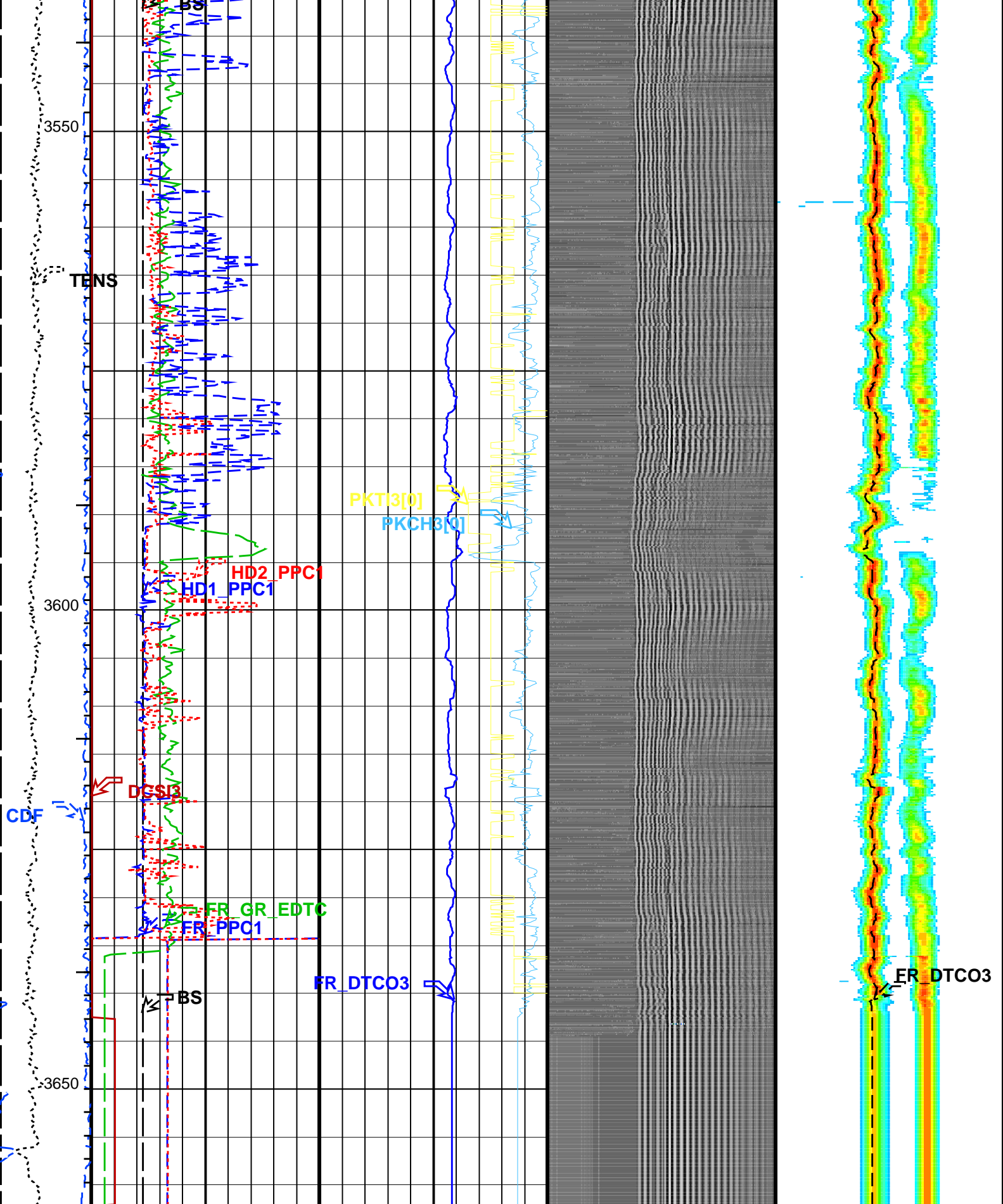












Tension (TENS) (LBF)	Bit Size (BS) (IN)	Compressional Slowness 3 (DTCO3) (US/F)	Min Amplitude Max MAST MF VDL WF (DWF3_ MONO) (US) 5000	Compressional Slowness 3 (DTCO3) (US/F)
2000 0	10 20	240 40	0 5000	40 240

Downhole Force (CDF) (LBF) -200 1800	Data Copy Status Indicator 3 (DCSI3)	Shear Slowness 3 (DTSH3)
	0 (----) 10	240 (US/F) 40
	Gamma Ray (GR_EDTC) (GAPI)	Peak Coherence PKCH3[0] (PKCH3[0])
	50 150	0 (----) 1
	PPC1 Hole Diameter 1 (HD1_ PPC1)	Peak Time PKTI3[0] (PKTI3[0])
	10 (IN) 20	200 (US) 1200
	PPC1 Hole Diameter 2 (HD2_ PPC1)	
	10 (IN) 20	

Shear Slowness 3 (DTSH3)

40 (US/F) 240

Min Amplitude Max

Slowness Projection 3 (SPJ3)

40 (US/F) 240

PIP SUMMARY

→ Integrated Transit Time Minor Pip Every 1 MS

— Integrated Transit Time Major Pip Every 10 MS

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
MAPC-B: Multimode Array Sonic Power Cartridge			
BHS	Borehole Status	OPEN	IN
BS	Bit Size	12.250	
DCRMVL	DC Offset Removal Option	DC_MULTIPLE	
DLHS	Hole Diameter Source for SOBS Channel	AUTO	US/F
DTF	Delta-T Fluid	190	
ITTS	Integrated Transit Time Source	DTCO	
PPC1-B: Powered Positioning Device/Caliper 1			
CLBD_PPC	PPC1 Caliper Type	CAL_STD	
	PPC Calibration data selection	ROM	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
System and Miscellaneous			
CSIZ	Current Casing Size	20.000	IN
CWEI	Casing Weight	133.00	LB/F
DO	Depth Offset for Playback	3.2	M
DORL	Depth Offset for Repeat Analysis	0.0	M
PP	Playback Processing	NORMAL	

Format: MAST P S 500 Vertical Scale: 1:500 Graphics File Created: 10-Aug-2009 18:37

OP System Version: 17C0-154

FBST-B	17C0-154	EMS-B	17C0-154
MAXS-B	SKK-3704-MAST	MAPC-B	SKK-3704-MAST
PPC1-B	17C0-154	EDTC-B	17C0-154

Input DLIS Files

DEFAULT	FMI NGS EMS MAXS 038LUP	FN:114	PRODUCER	13-Jul-2009 17:16	3659.9 M	2752.6 M
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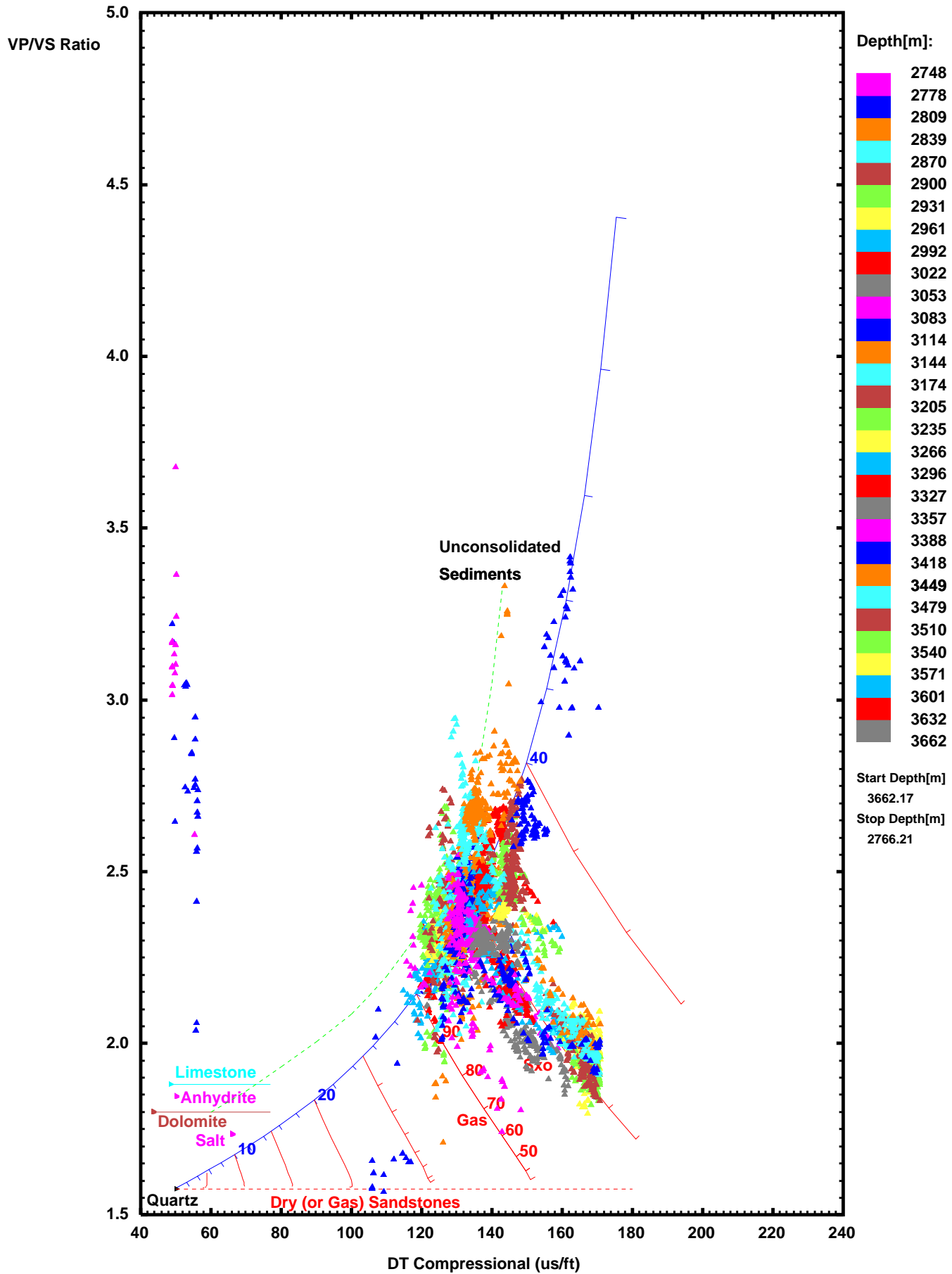
Output DLIS Files

DEFAULT	FMI_EMS_MAXS_MAPC_012PUP	FN:42	PRODUCER	10-Aug-2009 18:37
CLIENT	FMI EMS MAXS MAPC 012PUC	FN:43	CUSTOMER	10-Aug-2009 18:37



Cross Plot

VPVS vs. DTCO



Template: empirical relationship for vertical wells (vertically polarized compressional, horizontally polarized shear)

MAST Parameters

Product Class:

Standard

Environment Infomation

FORM_TYPE Slow
VSLO_COMP No
MUDT Water Based Mud
DTF 190.000 US/F
BH_STAT Open Hole
BDIAM 12.250 IN
CSIZ 20.000 IN
BS 12.250 IN
DLHS AUTO
CWEI 133.000 LB/F
DFD 1.100 G/C3
ZCMT 6.800 MRAY
VDL_MODE -

Data Channel Identification

MEASURE_NUMBER	#01	#02	#03	#04	#05	#06
DATAID_WFA	WMUM	WMLM	WMFM	WMFL	W90C	W00C
DATAID_WFA_MONO	WMUM_M	WMLM_M	WMFM_M	WMFL_M	W90C_M	W00C_M
DATAID_WFA_DIN	-	-	-	-	W90C_000	W00C_000
DATAID_WFA_DIOF	-	-	-	-	W90C_090	W00C_090
MEASURE_NAME	Monopole Upper	Monopole Lower	Monopole Far	Stoneley	X Dipole	Y Dipole

Measurement

MEASURE_TYPE	Monopole Near	Monopole Near	Monopole Far	Stoneley	Dipole	Dipole
TXSEL	MU	ML	MF	MF	XD	YD
WFSEL	mp_mf_d	mp_mf_d	mp_mf_d	mp_lf_d	dp_cd_d	dp_cd_d
TXWFTYPE	No Deconv	No Deconv	No Deconv	No Deconv	No Deconv	No Deconv
TXCONV	3 us	3 us	3 us	3 us	20 us	20 us
TX_WF_FREQ	Medium	Medium	Medium	Low	Chirp	Chirp
TX_WF_CATEG	Normal	Normal	Normal	Normal	Chirp Down	Chirp Down
TX_AMP	75 %	75 %	100 %	100 %	100 %	100 %
SAMINT	10 us	10 us	10 us	40 us	40 us	40 us
DIGTIME	2550.0 US	2550.0 US	5110.0 US	20440.0 US	30480.0 US	30480.0 US
DIGDEL	0.0 US	0.0 US	0.0 US	0.0 US	0.0 US	0.0 US
DIGDT	0.0 US/F	0.0 US/F	0.0 US/F	0.0 US/F	0.0 US/F	0.0 US/F
GNINT	2550.0 US	2550.0 US	5110.0 US	20440.0 US	30480.0 US	30480.0 US
ELTSEL	-	-	-	-	-	-
NWF	52	52	52	52	104	104
GAINSEL	-	-	-	-	-	-
COMPCTL	MZIP A	MZIP A	MZIP A	MZIP D	MZIP D	MZIP D
AUX_ACQ	All	All	All	All	All	All
MODALCTL	Downhole	Surface	Surface	Downhole	Downhole	Downhole
MODALENE	Allow	Disallow	Disallow	Allow	Allow	Allow
AUTOFREQ	Disallow	Disallow	Disallow	Disallow	Disallow	Disallow
SCORCTL	Allow	Allow	Allow	Allow	Allow	Allow

Arrival Time Detection (ATD)

NMSGA	-	-	-	-	-	-
NMXGA	-	-	-	-	-	-
SGDTA	-	-	-	-	-	-
SGCLA	-	-	-	-	-	-
FMDTTSELA	First Break	First Break	First Break	-	-	-

DSTC and Tracking

STCIN	Monopole	Monopole	Monopole	Monopole	Dipole Inline	Dipole Inline
TLLA	200 US	200 US	550 US	2720 US	1240 US	1360 US
TULA	2320 US	2320 US	5110 US	18960 US	23800 US	24880 US
SLLA	40 US/F	40 US/F	40 US/F	200 US/F	110 US/F	110 US/F
SULA	240 US/F	240 US/F	240 US/F	900 US/F	770 US/F	770 US/F
TWIA	300 US	300 US	300 US	1880 US	2160 US	2160 US
TSTA	100 US	100 US	100 US	440 US	520 US	520 US
SSTA	2 US/F	2 US/F	2 US/F	4 US/F	4 US/F	4 US/F
SBWA	1530 US	1530 US	2930 US	9360 US	13560 US	14160 US
SBOA	360 US	360 US	360 US	1920 US	8200 US	8200 US
TWIDA	1146 US	1146 US	2196 US	7020 US	10170 US	10620 US

SWIDA	20 US/F	20 US/F	20 US/F	60 US/F	60 US/F	60 US/F
XFLA	5000.0 HZ	5000.0 HZ	5000.0 HZ	1000.0 HZ	500.0 HZ	500.0 HZ
XFHA	16000.0 HZ	16000.0 HZ	16000.0 HZ	2000.0 HZ	2000.0 HZ	2000.0 HZ
FIL_LENDA	49	49	49	91	71	71
SEMTHTRA	0.3	0.3	0.3	0.3	0.3	0.3
VPVSA	2.2	2.2	2.2	2.2	2.2	2.2
TRACKMD	PS	PS	PS	Stoneley	Dipole	Dipole
STCAL	Full Array	Full Array	Full Array	Full Array	Full Array	Full Array
NRSA	5	5	5	5	5	5
DTCO_SELECT	MF	MF	MF	MF	MF	MF
DTSH_SELECT	XD	XD	XD	XD	XD	XD
TKOCTL	Disallow	Disallow	Allow	Allow	Allow	Allow
TKO_DECIM	12 inch					
TKOMCCTL	-	-	-	Disallow	Disallow	Disallow
MC_RHO	2.0 G/C3					
MC_RHO_OPT	RHOB					
STCTRCTL	BOTH					

MAST Parameter Descriptions

Environment Infomation

LISNAME	Description
FORM_TYPE	Formation Type
VSLO_COMP	Very Slow Compressional
MUDT	Mud Type
DTF	Delta-T Fluid
BH_STAT	Borehole Status
BDIAM	Borehole Diameter
CSIZ	Current Casing Size
BS	Bit Size
DLHS	Hole Diameter Source for SOBS Channel
CWEI	Casing Weight
DFD	Drilling Fluid Density
ZCMT	Acoustic Impedance of Cement
VDL_MODE	DCBL/VDL Mode for Cement Evaluation

Data Channel Identification

DATAID_WFA	MSIP-L Waveform Data ID in Horizon Naming Convention for WFA _n
DATAID_WFA_MONO	MSIP-L Waveform Data ID in Horizon Naming Convention for WFA _n _MONO
DATAID_WFA_DIN	MSIP-L Waveform Data ID in Horizon Naming Convention for WFA _n _DIN
DATAID_WFA_DIOF	MSIP-L Waveform Data ID in Horizon Naming Convention for WFA _n _DIOF
MEASURE_NAME	Measurement Names

Measurement

MEASURE_TYPE	Measurement Types
TXSEL	Transmitter Drive Selection
WFSEL	Transmitter Drive Waveform Selection
TXWFTYPE	Transmitter Drive Waveform Type
TXCONV	Transmitter Drive Conversion Rate
TX_WF_FREQ	Transmitter Drive Waveform Frequency
TX_WF_CATEG	Transmitter Drive Waveform Category
TX_AMP	Transmitter Amplitude Factor
SAMINT	Waveform Sampling Interval
DIGTIME	Waveform Digitizing Time
DIGDEL	Waveform Digitizing Delay
DIGDT	Waveform Digitizing Delta-T
GNINT	Waveform Gain Interval
ELTSEL	Receiver Sensor Element Selection
NWF	Number of Waveforms
GAINSEL	Sensor Gain Selection
COMPCTL	Data Compression Control
AUX_ACQ	Aux Acquisition Mode
MODALCTL	Modal Computation Control
MODALENE	Downhole Modal Energy Computation Option
AUTOFREQ	Automatic Frequency Selection
SCORCTL	Sensor Correction Control

Arrival Time Detection (ATD)

NMSGGA	Near Minimum Sliding Gate Array
NMXGA	Near Maximum Sliding Gate Array
SGDTA	Sliding Gate Delta-T Array
SGCLA	Sliding Gate Closing Delta-T Array
FMDTTSELA	First Motion Detection Transit Time Selection

STCIN	STC Input Channel Name
TLLA	Time Lower Limit
TULA	Time Upper Limit
SLLA	Slowness Lower Limit
SULA	Slowness Upper Limit
TWIA	Integration Time Window
TSTA	Time Step
SSTA	Slowness Step
SBWA	Search Band Width
SBOA	Search Band Offset
TWIDA	Peak Mask Time Width
SWIDA	Peak Mask Slowness Width
XFLA	Filter Low Cutoff
XFHA	Filter High Cutoff
FIL_LENGA	Filter Length Array
SEMTHRA	STC Semblance Threshold
VPVSA	Sonic Vp / Vs Ratio
TRACKMD	MAST Tracking Mode
STCAL	STC Algorithm
NRSA	Number of Receivers in Sub-Array
DTCO_SELECT	Delta-T Compressional Selection for Finalization
DTSH_SELECT	Delta-T Shear Selection for Finalization
TKOCTL	TKO Computation Control (ACQ)
TKO_DECIM	TKO Decimation Depth Interval
TKOMCCTL	TKO Homogeneous Isotropic Model Curve Computation Control
MC_RHO	Homogeneous Isotropic Model Curve Model Formation Bulk Density
MC_RHO_OPT	Homogeneous Isotropic Model Curve Model Formation Bulk Density Option
STCTRCTL	STC and Tracking Control



MAXIS Field Log

Measurement	Nominal	Master	Before	After	Change	Limit	Units
I-Bore Scanner – B Wellsite Calibration – Caliper Calibration							
Before: 12-Jul-2009 11:56							
Caliper 1 Small Jig	8.000	N/A	7.973	N/A	N/A	N/A	IN
Caliper 2 Small Jig	16.00	N/A	16.03	N/A	N/A	N/A	IN
Caliper 1 Large Jig	16.00	N/A	15.80	N/A	N/A	N/A	IN
Caliper 2 Large Jig	8.000	N/A	7.906	N/A	N/A	N/A	IN
I-Bore Scanner – B Wellsite Calibration – CROUZET ACCELEROMETER			PROM HAS BEEN READ CORRECTLY				
Before: 12-Jul-2009 12:49							
TEMPERATURE REFERENCE :	N/A	N/A	20	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	3	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	4	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	852	N/A	N/A	N/A	
I-Bore Scanner – B Wellsite Calibration – CROUZET MAGNETOMETER			PROM HAS BEEN READ CORRECTLY				
Before: 12-Jul-2009 12:49							
TEMPERATURE REFERENCE :	N/A	N/A	22	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	97	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	2	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	287	N/A	N/A	N/A	

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 1 Check

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 1 Check								
Master: 5–Jul–2009 18:42 Before: 5–Jul–2009 18:56								
Na 511 Peak Loc	40.00	39.49	39.74	N/A	N/A	1.000		
Na 511 Peak Res	15.50	17.60	16.16	N/A	N/A	2.000	%	
High Voltage	1150	1214	1215	N/A	N/A	N/A	V	
Na 1785 Peak Loc	142.6	143.1	143.6	N/A	N/A	7.000		
Na 1785 Peak Res	8.500	9.645	9.431	N/A	N/A	2.000	%	
Temperature	15.50	26.77	26.77	N/A	N/A	N/A	DEGC	
Na Count Rate	45.00	23.60	23.58	N/A	N/A	8.000	CPS	
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check								
Master: 5–Jul–2009 18:42 Before: 5–Jul–2009 18:56								
Na 511 Peak Loc	40.00	39.91	39.56	N/A	N/A	1.000		
Na 511 Peak Res	15.50	16.82	17.24	N/A	N/A	2.000	%	
High Voltage	1150	1105	1106	N/A	N/A	N/A	V	
Na 1785 Peak Loc	142.6	144.3	143.7	N/A	N/A	7.000		
Na 1785 Peak Res	8.500	9.151	8.788	N/A	N/A	2.000	%	
Temperature	15.50	26.35	26.46	N/A	N/A	N/A	DEGC	
Na Count Rate	45.00	23.75	23.52	N/A	N/A	8.000	CPS	
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Ratio Of Detector 1 To Detector 2								
Master: 5–Jul–2009 18:42 Before: 5–Jul–2009 18:56								
Coincidence Count Rate Ratio	1.000	0.9925	1.004	N/A	N/A	0.05000		
Powered Positioning Device/Caliper 1 Wellsite Calibration – PPC1 Caliper Calibration								
Before: 12–Jul–2009 12:03								
PPC1 Radius 1 Raw Small Radius	3.500	N/A	4.426	N/A	N/A	0.5000	IN	
PPC1 Radius 1 Raw Large Radius	8.000	N/A	8.666	N/A	N/A	0.5000	IN	
PPC1 Radius 2 Raw Small Radius	3.500	N/A	3.337	N/A	N/A	0.5000	IN	
PPC1 Radius 2 Raw Large Radius	8.000	N/A	7.746	N/A	N/A	0.5000	IN	
PPC1 Radius 3 Raw Small Radius	3.500	N/A	4.219	N/A	N/A	0.5000	IN	
PPC1 Radius 3 Raw Large Radius	8.000	N/A	8.465	N/A	N/A	0.5000	IN	
PPC1 Radius 4 Raw Small Radius	3.500	N/A	2.510	N/A	N/A	0.5000	IN	
PPC1 Radius 4 Raw Large Radius	8.000	N/A	7.022	N/A	N/A	0.5000	IN	
Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration								
Before: 12–Jul–2009 13:01								
EDTC Z–Axis Acceleration	9.810	N/A	9.794	N/A	N/A	N/A	M/S2	
Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration								
Before: 12–Jul–2009 12:51								
Gamma Ray (Jig – Bkg)	167.1	N/A	167.1	N/A	N/A	15.19	GAPI	
Gamma Ray (Calibrated)	160.0	N/A	160.0	N/A	N/A	15.00	GAPI	



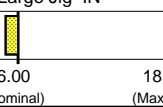
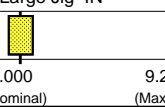
Full–Bore Scanner – B / Equipment Identification

Primary Equipment:

FullBore Scanner Sonde	FBSS – B	816
FullBore Scanner Sonde Upper part	FBSH – A	815
FullBore Scanner Sonde Cartridge	FBSC – B	816
GPIT Cartridge – C	GPIC – C	1843
Insulating Sub	AH – 185	938
FullBore Scanner Control Cartridge	FBCC – A	819

Auxiliary Equipment:

Electronics Cartridge Housing	ECH – MRA	4811
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Full–Bore Scanner – B Wellsite Calibration					
Caliper Calibration					
Phase	Caliper 1 Small Jig IN	Value	Phase	Caliper 2 Small Jig IN	Value
Before		7.973	Before		16.03
	6.800 (Minimum) 8.000 (Nominal) 9.200 (Maximum)			13.60 (Minimum) 16.00 (Nominal) 18.40 (Maximum)	
Phase	Caliper 1 Large Jig IN	Value	Phase	Caliper 2 Large Jig IN	Value
Before		15.80	Before		7.906
	13.60 (Minimum) 16.00 (Nominal) 18.40 (Maximum)			6.800 (Minimum) 8.000 (Nominal) 9.200 (Maximum)	
Before: 12–Jul–2009 11:56					

Hostile Natural Gamma Ray Cartridge – B / Equipment Identification

Primary Equipment:

Auxiliary Equipment:
HNGC Housing

HNGH – A

358

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:
HNGS Sonde

HNGS – BA

164

Auxiliary Equipment:

HNGS Sonde Housing

HNSH – BA

161















Gamma Source Radioactive

GSR – Y

1005















Hostile Natural Gamma Ray Sonde Wellsite Calibration



Detector 1 Check

Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value
Master		39.49	Master		17.60	Master		1214
Before		39.74	Before		16.16	Before		1215
	37.50 (Minimum)	40.00 (Nominal)		12.00 (Minimum)	15.50 (Nominal)		900.0 (Minimum)	1150 (Nominal)
		43.50 (Maximum)			19.00 (Maximum)			1600 (Maximum)
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value
Master		143.1	Master		9.645	Master		26.77
Before		143.6	Before		9.431	Before		26.77
	135.0 (Minimum)	142.6 (Nominal)		7.000 (Minimum)	8.500 (Nominal)		-28.89 (Minimum)	15.50 (Nominal)
		150.3 (Maximum)			11.00 (Maximum)			60.00 (Maximum)
Phase	Na Count Rate CPS	Value						
Master		23.60						
Before		23.58						
	10.00 (Minimum)	45.00 (Nominal)						
		100.0 (Maximum)						
Master: 5-Jul-2009 18:42			Before: 5-Jul-2009 18:56					

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 2 Check

Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value
Master		39.91	Master		16.82	Master		1105
Before		39.56	Before		17.24	Before		1106
	37.50 (Minimum)	40.00 (Nominal)		12.00 (Minimum)	15.50 (Nominal)		900.0 (Minimum)	1150 (Nominal)
		43.50 (Maximum)			19.00 (Maximum)			1600 (Maximum)
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value
Master		144.3	Master		9.151	Master		26.35
Before		143.7	Before		8.788	Before		26.46
	135.0 (Minimum)	142.6 (Nominal)		7.000 (Minimum)	8.500 (Nominal)		-28.89 (Minimum)	15.50 (Nominal)
		150.3 (Maximum)			11.00 (Maximum)			60.00 (Maximum)
Phase	Na Count Rate CPS	Value						
Master		23.75						
Before		23.52						
	10.00 (Minimum)	45.00 (Nominal)						
		100.0 (Maximum)						
Master: 5-Jul-2009 18:42			Before: 5-Jul-2009 18:56					

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		0.9925
Before		1.004
	0.9500 (Minimum)	1.000 (Nominal)
		1.050 (Maximum)
Master: 5-Jul-2009 18:42		
Before: 5-Jul-2009 18:56		

Multimode Array Sonic Power Cartridge / Equipment Identification

Primary Equipment:

Multimode Array Sonic Minimum Service So
Multimode Array Sonic Control Cartridge

MAMS – BA
MAPC – BA

8048
8038

Auxiliary Equipment:

Electronics Cartridge Housing

ECH – SF

8038

Powered Positioning Device/Caliper 1 / Equipment Identification

Primary Equipment:

PPC Powered Positioning Device/Caliper
PPC1 Caliper Standard









PPC1 – B
PPC_ –

8169

Auxiliary Equipment:

Powered Positioning Device/Caliper 1 Wellsite Calibration

PPC1 Caliper Calibration

Phase	PPC1 Radius 1 Raw Small Radius IN	Value	Phase	PPC1 Radius 1 Raw Large Radius IN	Value
Before		4.426	Before		8.666
	1.200 (Minimum) 3.500 (Nominal) 5.600 (Maximum)			6.100 (Minimum) 8.000 (Nominal) 9.700 (Maximum)	
Phase	PPC1 Radius 2 Raw Small Radius IN	Value	Phase	PPC1 Radius 2 Raw Large Radius IN	Value
Before		3.337	Before		7.746
	1.200 (Minimum) 3.500 (Nominal) 5.600 (Maximum)			6.100 (Minimum) 8.000 (Nominal) 9.700 (Maximum)	
Phase	PPC1 Radius 3 Raw Small Radius IN	Value	Phase	PPC1 Radius 3 Raw Large Radius IN	Value
Before		4.219	Before		8.465
	1.200 (Minimum) 3.500 (Nominal) 5.600 (Maximum)			6.100 (Minimum) 8.000 (Nominal) 9.700 (Maximum)	
Phase	PPC1 Radius 4 Raw Small Radius IN	Value	Phase	PPC1 Radius 4 Raw Large Radius IN	Value
Before		2.510	Before		7.022
	1.200 (Minimum) 3.500 (Nominal) 5.600 (Maximum)			6.100 (Minimum) 8.000 (Nominal) 9.700 (Maximum)	

Before: 12-Jul-2009 12:03

Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:

EDTC Gamma Ray Detector
Enhanced DTS Cartridge

EDTG – A/B
EDTC – BB

8215
8218

Auxiliary Equipment:


EDTC Housing

EDTH – B

8206

Enhanced DTS Cartridge Wellsite Calibration

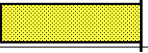


EDTC Accelerometer Calibration

Phase	EDTC Z-Axis Acceleration M/S2	Value
Before		9.794
	9.610 (Minimum) 9.810 (Nominal) 10.01 (Maximum)	

Before: 12-Jul-2009 13:01

Enhanced DTS Cartridge Wellsite Calibration

Detector Calibration

Phase	Gamma Ray Background GAPI	Value	Phase	Gamma Ray (Jig – Bkg) GAPI	Value	Phase	Gamma Ray (Calibrated) GAPI	Value
Before		3.157	Before		167.1	Before		160.0
	0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)			151.9 (Minimum) 167.1 (Nominal) 182.3 (Maximum)			145.0 (Minimum) 160.0 (Nominal) 175.0 (Maximum)	

Before: 12-Jul-2009 12:51

Company: **CDEX**

Schlumberger

Well: **C0009A**

Field: **Kumanonada, Offshore Kii peninsula**

Rig: **Chikyu**

Country: **JAPAN**

Sonic Scanner (P&S mode)
3641.2m – 2785.0m
Suite 1, Run 2 (1:500)