

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			





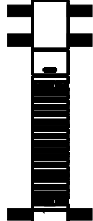


Repeat section was taken from 2900.0m – 2850.0m as per client request.

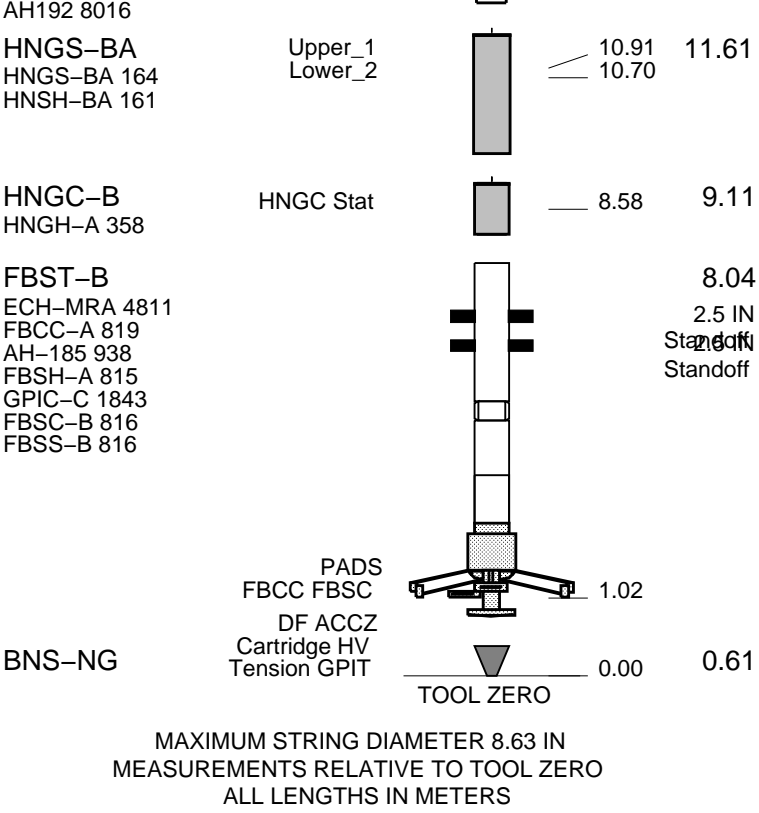
FMI data was recorded using Manual EMEX (175V) and Gain Auto Low range.					
MDEC used -6.587 as per client request.					
Caliper check in casing = 18.75 inch.					
Some of data affected by borehole condition (rugosity/washout).					
Circulation Started: 11-Jul-2009; 1:45am					
Circulation Stopped: 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 #:		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		

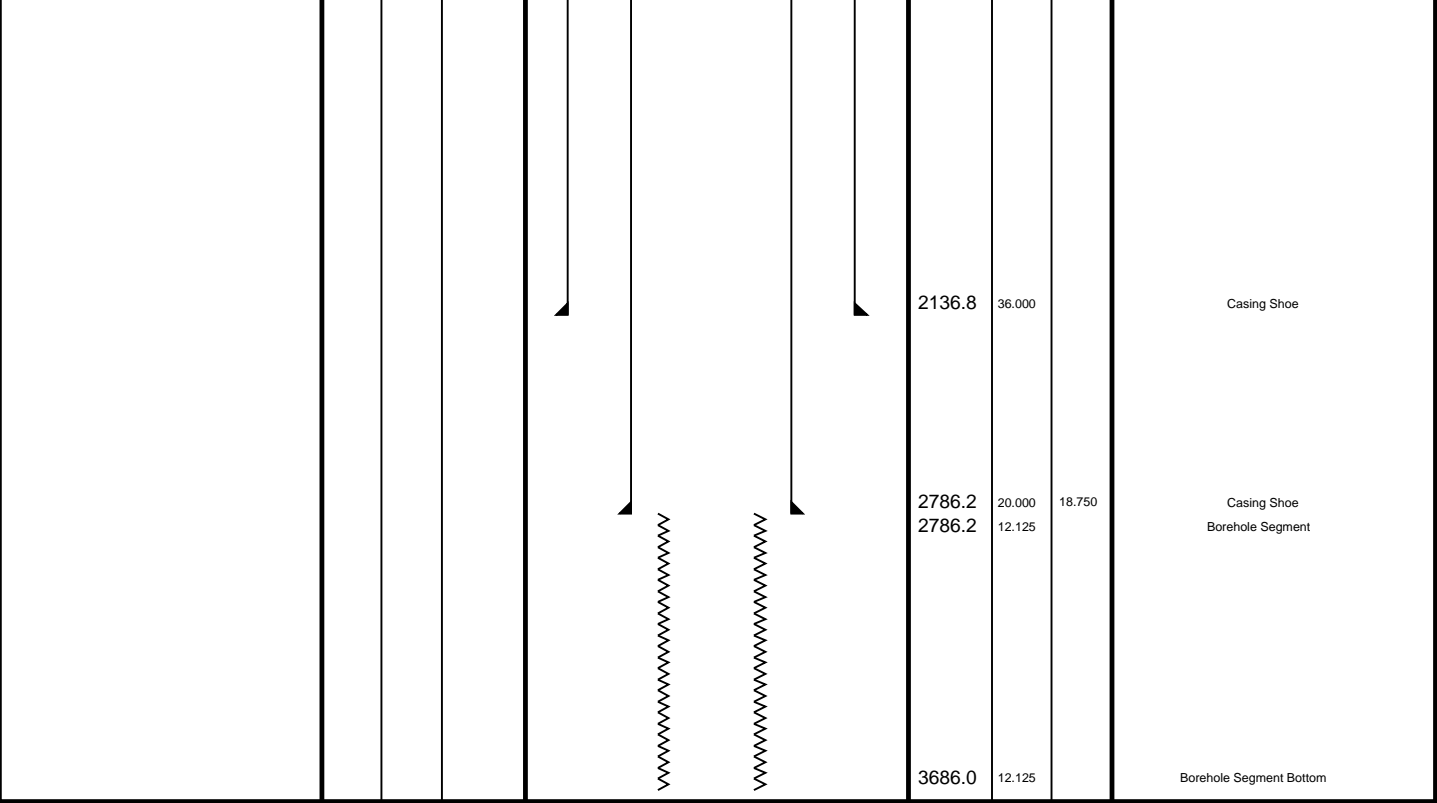
SURFACE EQUIPMENT		
GSR-Y 1005 WITM (EDTS)-A		

DOWNHOLE EQUIPMENT		
LEH-QT		31.77
LEH-QT 1296		
EDTC-B		30.88
EDTH-B 8206		
EDTC-BB 8218		
EDTG-A/B 8215		
PPC1-B		28.90
PPC1-B 8169		
PPC_CAL_STD		
MAPC-B		26.91
MAPC-BA 8038		
ECH-SF 8038		
MAMS-BA 8048		
		22.20
		14.33
		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					Casing String
			0.0					
Mean Sea Level					2082.3	36.000		



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_NGS_EMS_CAL_006PUP	FN:30	PRODUCER	08-Aug-2009 16:43	3662.2 M	2755.8 M
CLIENT	FMI_NGS_EMS_CAL_006PUC	FN:31	CUSTOMER	08-Aug-2009 16:43	3662.2 M	2755.8 M

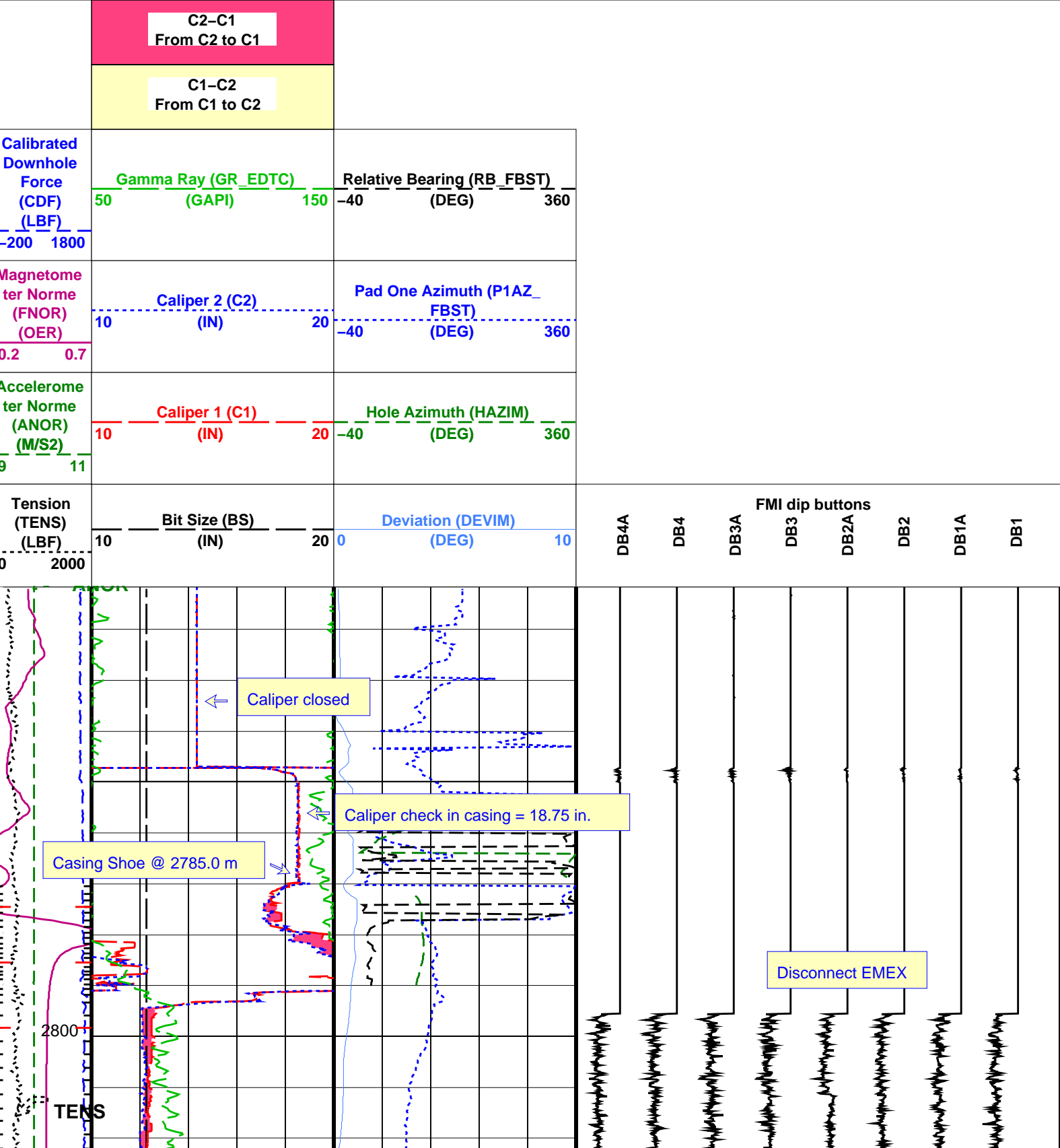
Integrated Hole/Cement Volume Summary

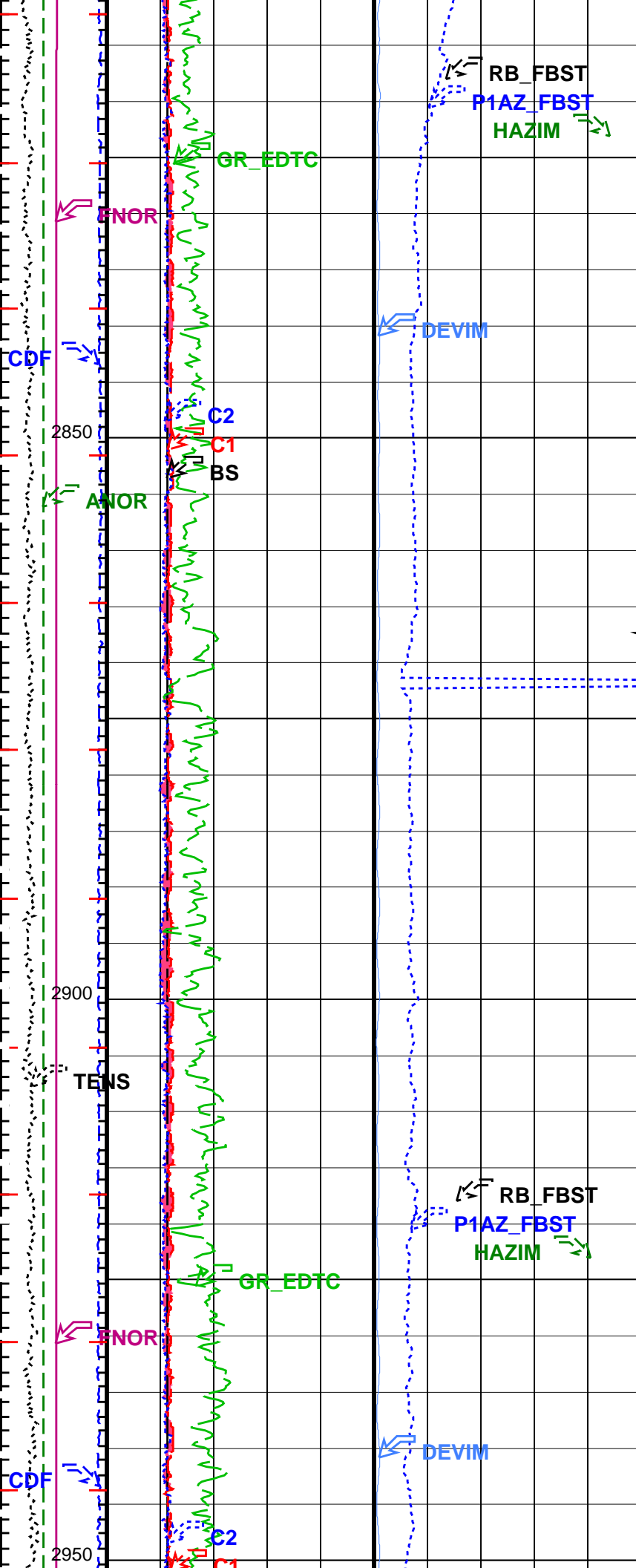
Hole Volume = 71.35 M3
Cement Volume = 71.35 M3 (assuming 0.00 IN casing O.D.)
Computed from 3662.2 M to 2785.1 M using data channel(s) C1 C2

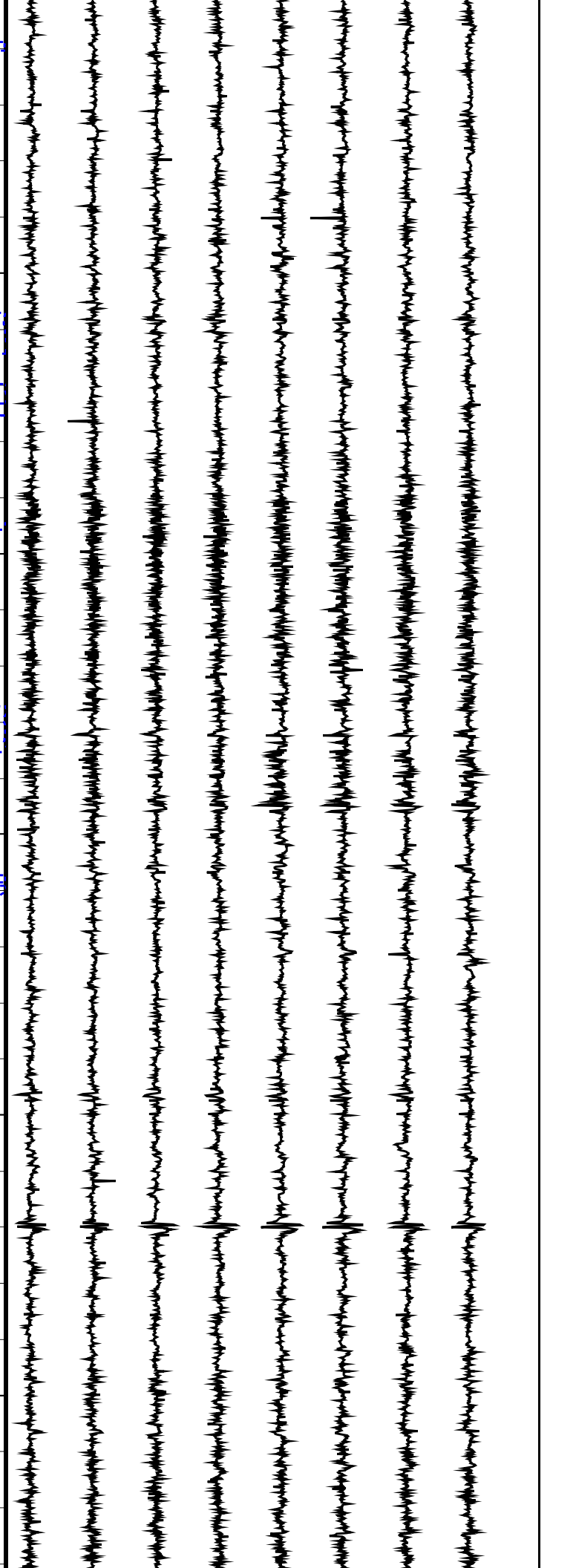
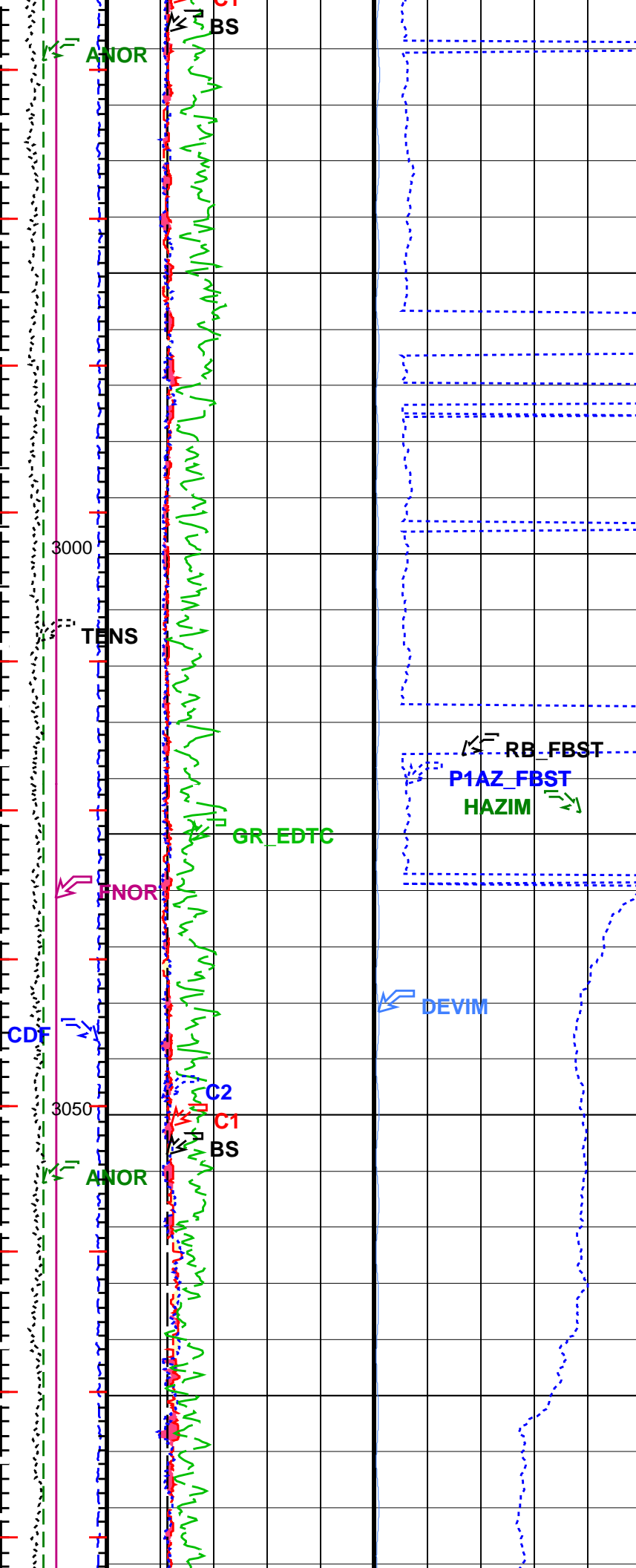
FBST-B	17C0-154	HNGC-B	17C0-154
HNGS-BA	SPC-3839-NUCL	EMS-B	17C0-154
PPC1-B	17C0-154	EDTC-B	17C0-154

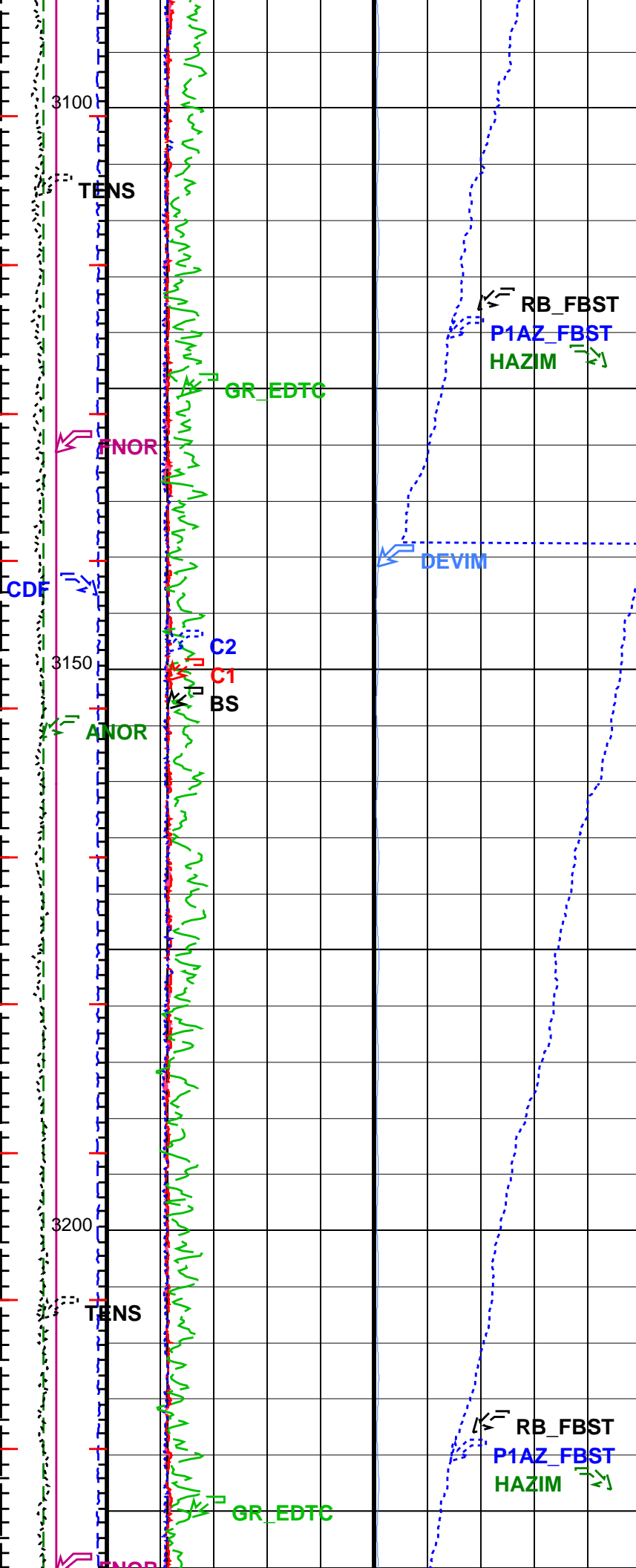
PIP SUMMARY

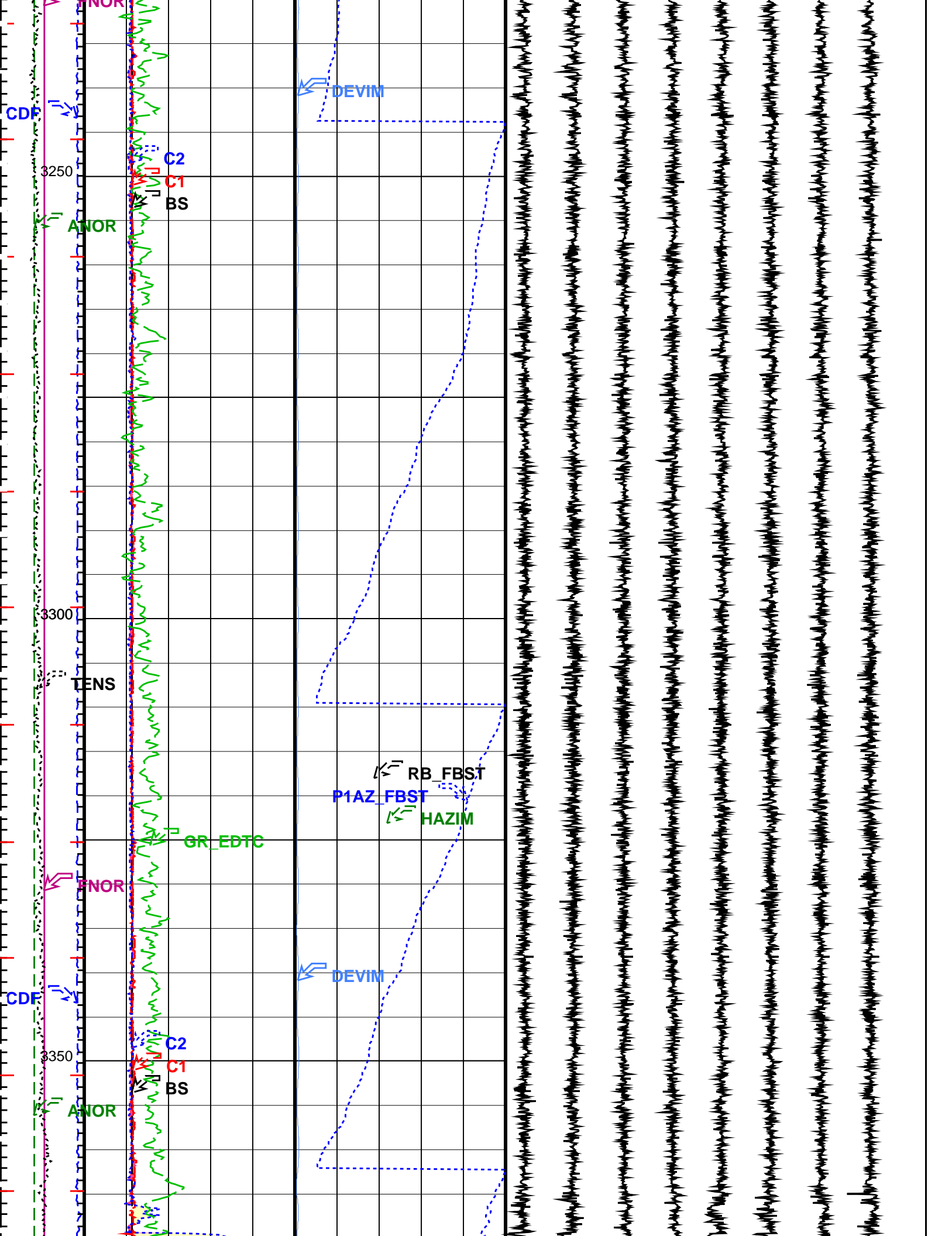
- └ Integrated Hole Volume Minor Pip Every 0.1 M3
- └ Integrated Hole Volume Major Pip Every 1 M3
 - └ Integrated Cement Volume Minor Pip Every 0.1 M3
 - └ Integrated Cement Volume Major Pip Every 1 M3
- Time Mark Every 60 S

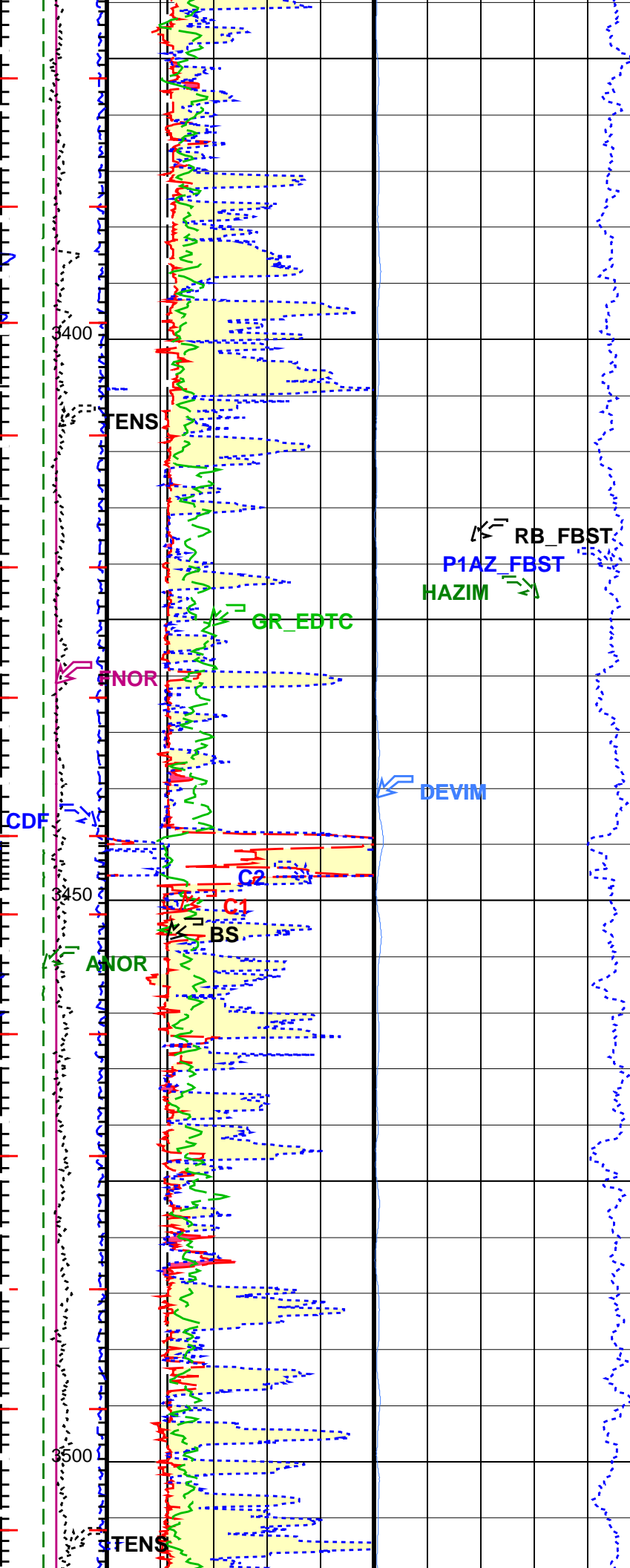




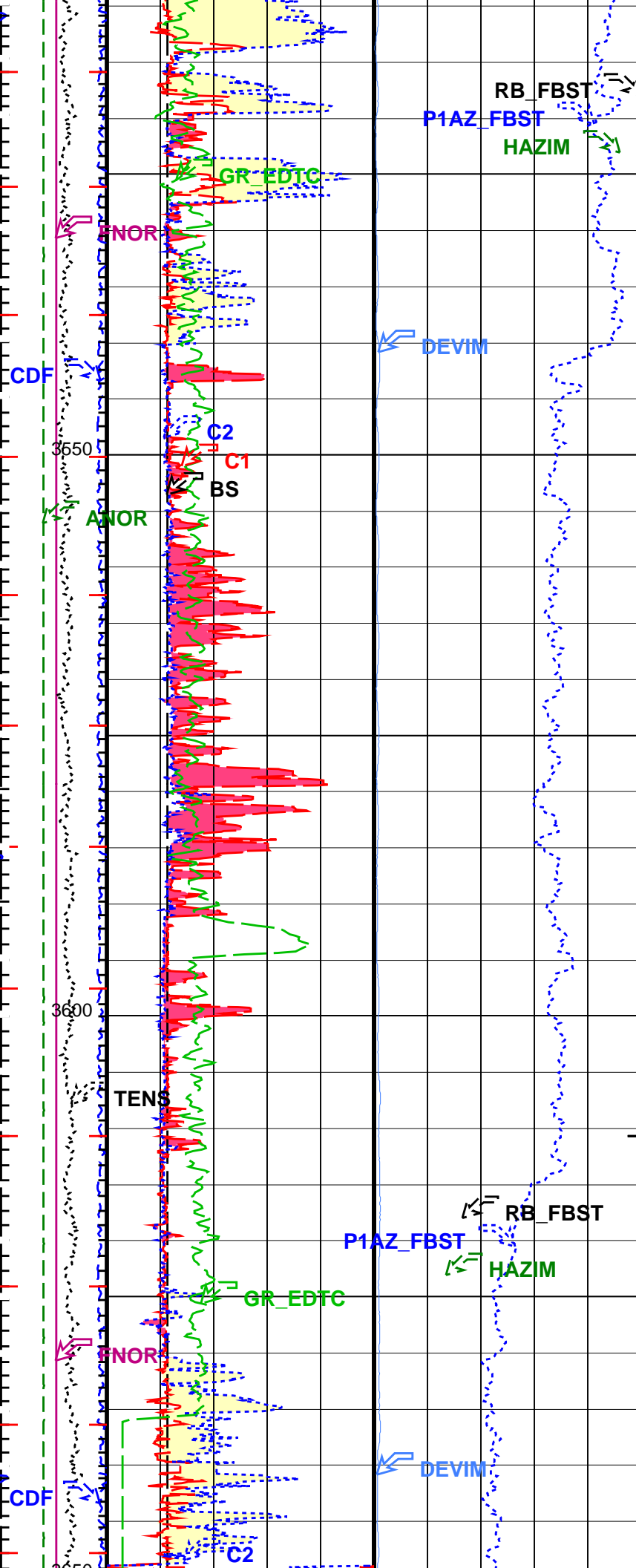




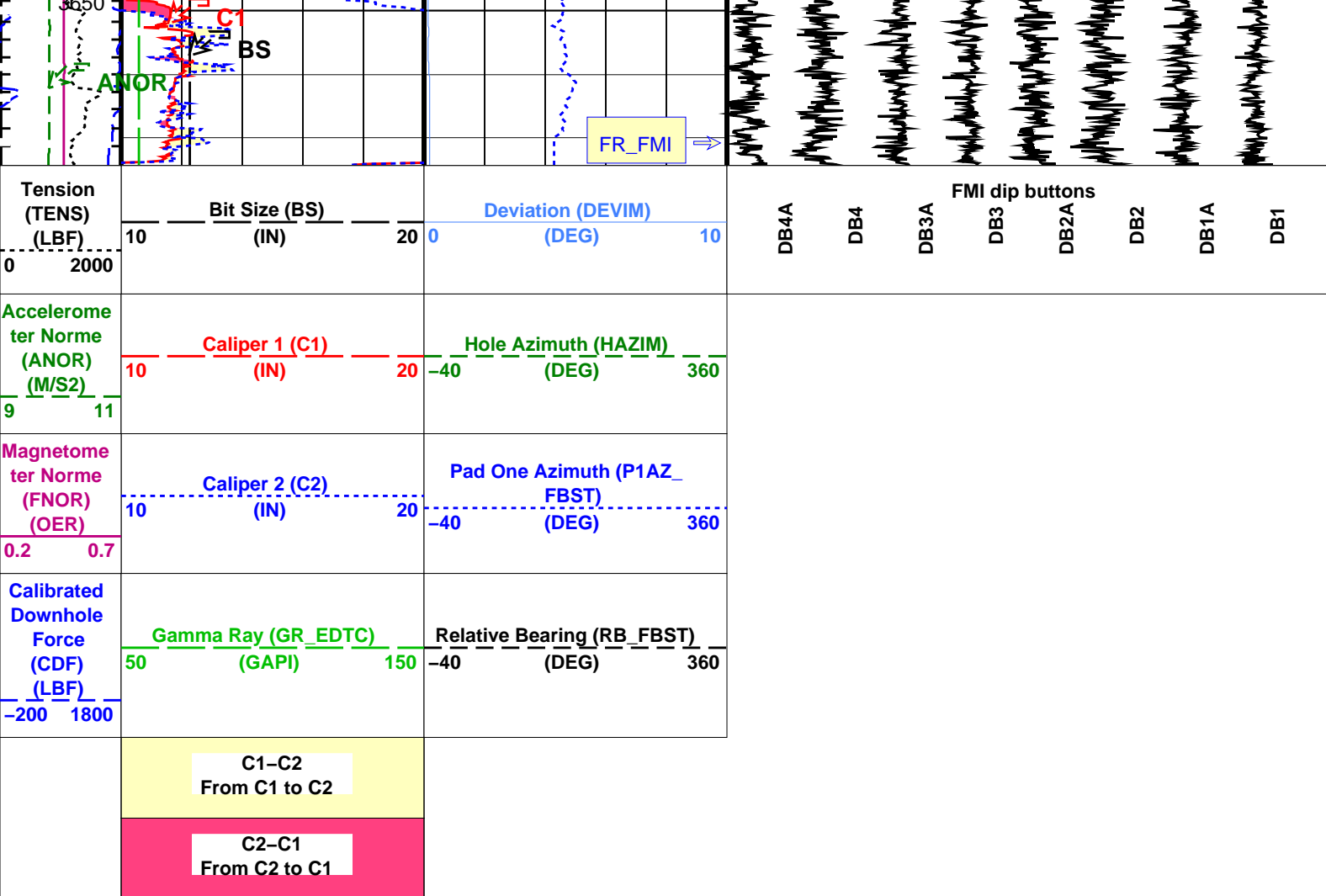




Geological profile plot showing depth (3400 to 3500) vs. various data series including TENS, ENOR, CDF, BS, C1, C2, GR_EDTC, P1AZ_FBST, RB_FBST, HAZIM, and DEVIM.



Handwritten notes in Urdu script are present on the right side of the page, likely providing a detailed description or interpretation of the geophysical data shown in the plot.



PIP SUMMARY

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

Parameters

DLIS Name	Description	Value
FBST-B: Full-Bore Scanner - B		
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE
FBCD	Correct Dip Buttons Values by EMEX and Gain	OFF
FLM	FMI Logging Mode	8PAD
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION
MDEC	Magnetic Field Declination	-6.587 DEG
SOFF	Standoff	-1 IN
EMS-B: Environment Measurement Sonde		
FCD	Future Casing (Outer) Diameter	0 IN
HVCS	Integrated Hole Volume Caliper Selection	PPC1_Calipers
System and Miscellaneous		
BS	Bit Size	12.250 IN
DO	Depth Offset for Playback	3.2 M
DORL	Depth Offset for Repeat Analysis	0.0 M
PP	Playback Processing	RECOMPUTE
TD	Total Depth	3667 M

Format: Dip 500

Vertical Scale: 1:500

Graphics File Created: 08-Aug-2009 16:43

OP System Version: 17C0-154

FBST-B	17C0-154	HNGC-B	17C0-154
HNGS-BA	SPC-3839-NUCL	EMS-B	17C0-154
PPC1-B	17C0-154	EDTC-B	17C0-154

Input DLIS Files

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_NGS_EMS_CAL_006PUP	FN:30	PRODUCER	08-Aug-2009 16:43
CLIENT	FMI_NGS_EMS_CAL_006PUC	FN:31	CUSTOMER	08-Aug-2009 16:43



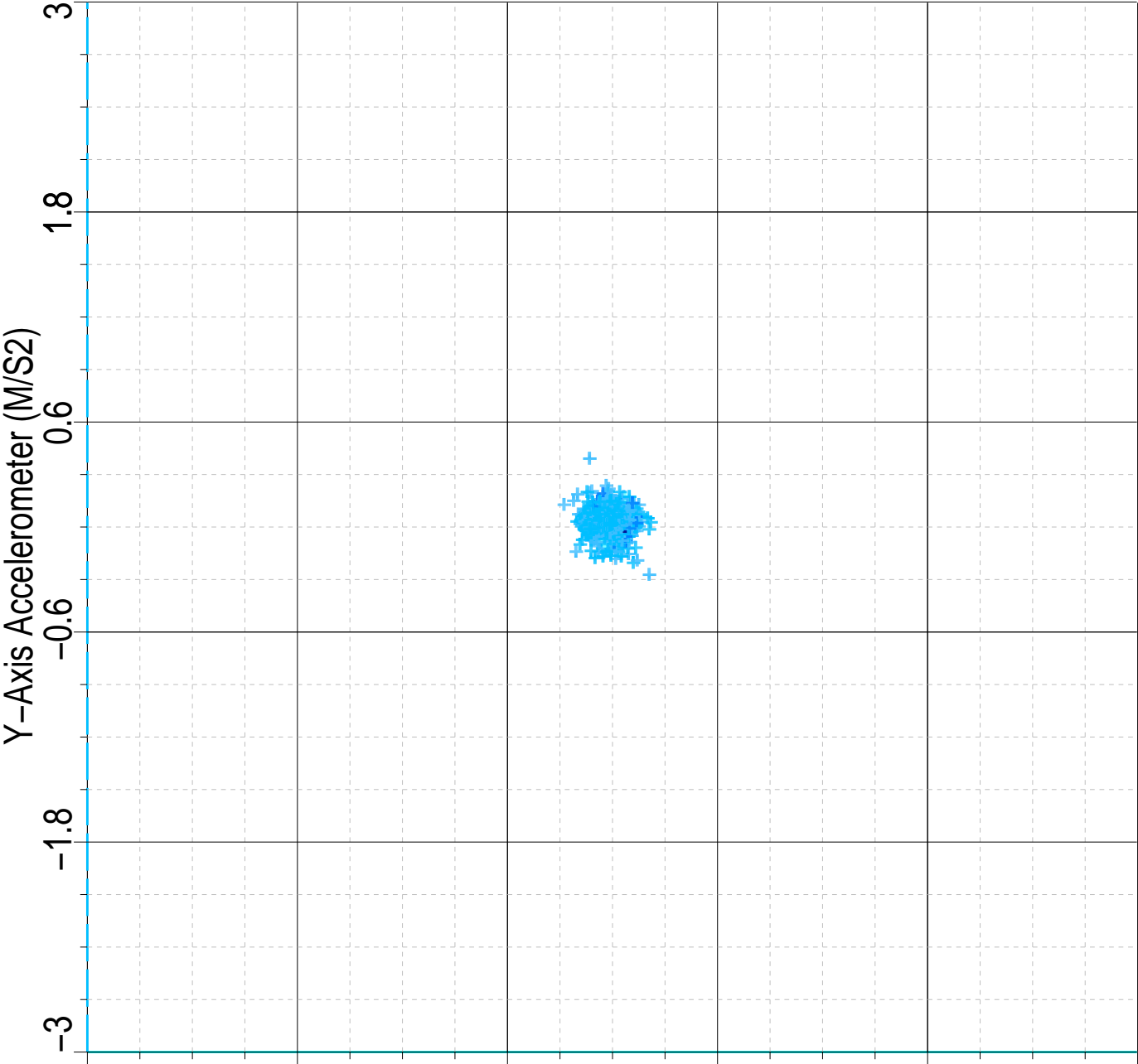
Cross Plot

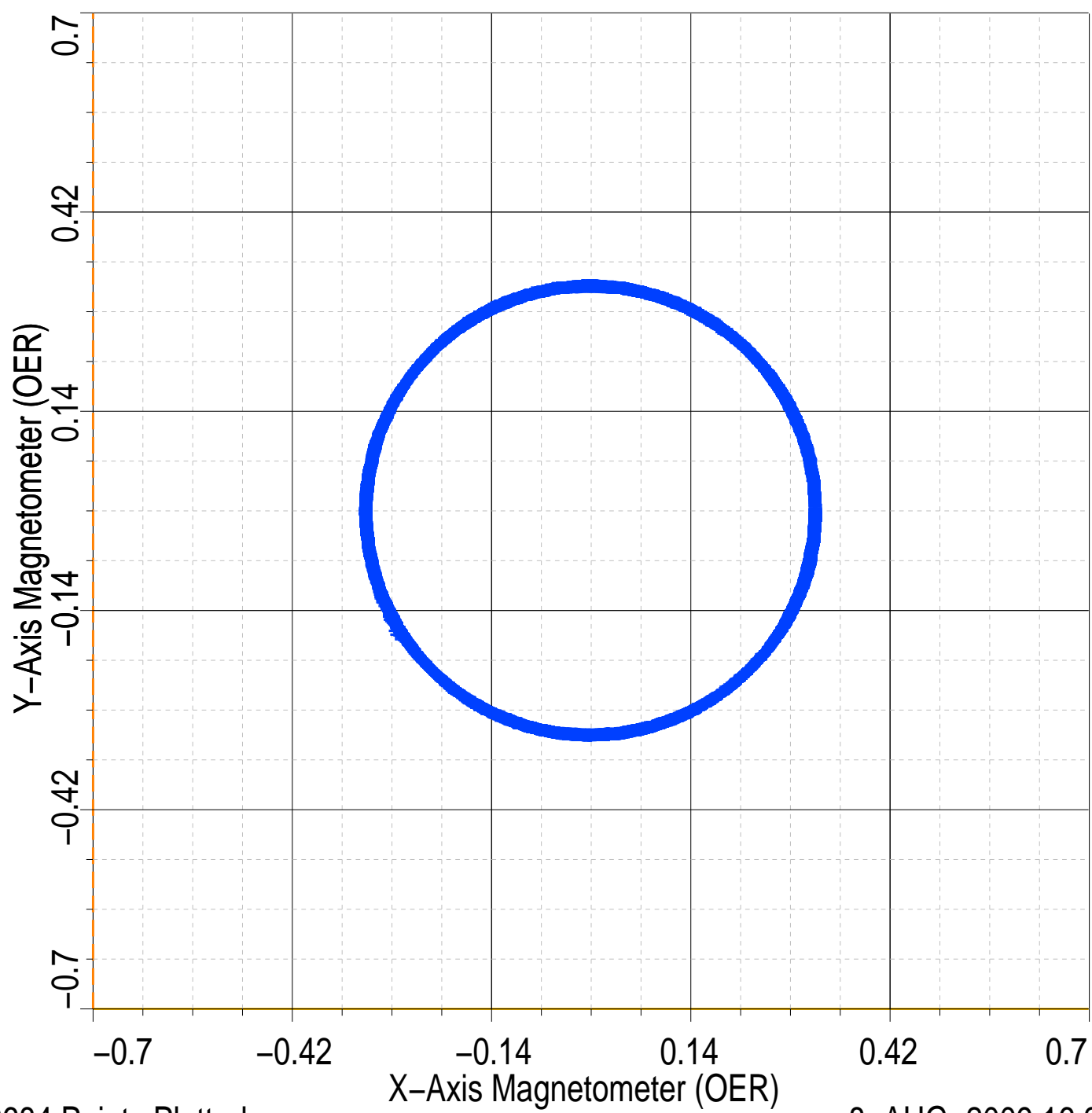
MAXIS Field Log

Index: 3662.2 – 2755.9 M

9.  11.

Z-Axis Accelerometer (M/S2)





Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Full-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
Full-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	
Full-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							
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
GPIT Cartridge – C
Insulating Sub
FullBore Scanner Control Cartridge

FBSC – B 816
GPIC – C 1843
AH – 185 938
FBCC – A 819

Auxiliary Equipment:

Electronics Cartridge Housing

ECH – MRA 4811

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:
HNGC Cartridge

HNGC – B 424

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
Gamma Source Radioactive

HNSH – BA 161
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	<div><div></div></div>		39.49	Master	<div><div></div></div>		17.60	Master	<div><div></div></div>		1214						
Before	<div><div></div></div>		39.74	Before	<div><div></div></div>		16.16	Before	<div><div></div></div>		1215						
37.50 (Minimum)			40.00 (Nominal)	43.50 (Maximum)			12.00 (Minimum)			15.50 (Nominal)	19.00 (Maximum)	900.0 (Minimum)			1150 (Nominal)	1600 (Maximum)	
Phase	Na 1785 Peak Loc		Value	Phase	Na 1785 Peak Res %		Value	Phase	Temperature DEGC		Value						
Master	<div><div></div></div>		143.1	Master	<div><div></div></div>		9.645	Master	<div><div></div></div>		26.77						
Before	<div><div></div></div>		143.6	Before	<div><div></div></div>		9.431	Before	<div><div></div></div>		26.77						
135.0 (Minimum)			142.6 (Nominal)	150.3 (Maximum)			7.000 (Minimum)			8.500 (Nominal)	11.00 (Maximum)	-28.89 (Minimum)			15.50 (Nominal)	60.00 (Maximum)	
Phase	Na Count Rate CPS		Value														
Master	<div><div></div></div>		23.60														
Before	<div><div></div></div>		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)	43.50 (Maximum)	12.00 (Minimum)		15.50 (Nominal)	19.00 (Maximum)	900.0 (Minimum)
								1150 (Nominal)
								1600 (Maximum)

(Minimum) (Nominal) (Maximum)			(Minimum) (Nominal) (Maximum)			(Minimum) (Nominal) (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) 150.3 (Maximum)				7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)				-28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)			
Phase	Na Count Rate CPS		Value								
Master			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	MAMS – BA	8048
Multimode Array Sonic Control Cartridge	MAPC – BA	8038
Auxiliary Equipment:		
Electronics Cartridge Housing	ECH – SF	8038

Powered Positioning Device/Caliper 1 / Equipment Identification		
Primary Equipment:		
PPC Powered Positioning Device/Caliper	PPC1 – B	8169
PPC1 Caliper Standard	PPC_ –	
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		
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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**

FMI-GR (Dipmeter)

3662.2m – 2798.2m

Suite 1, Run 2 (1:500)