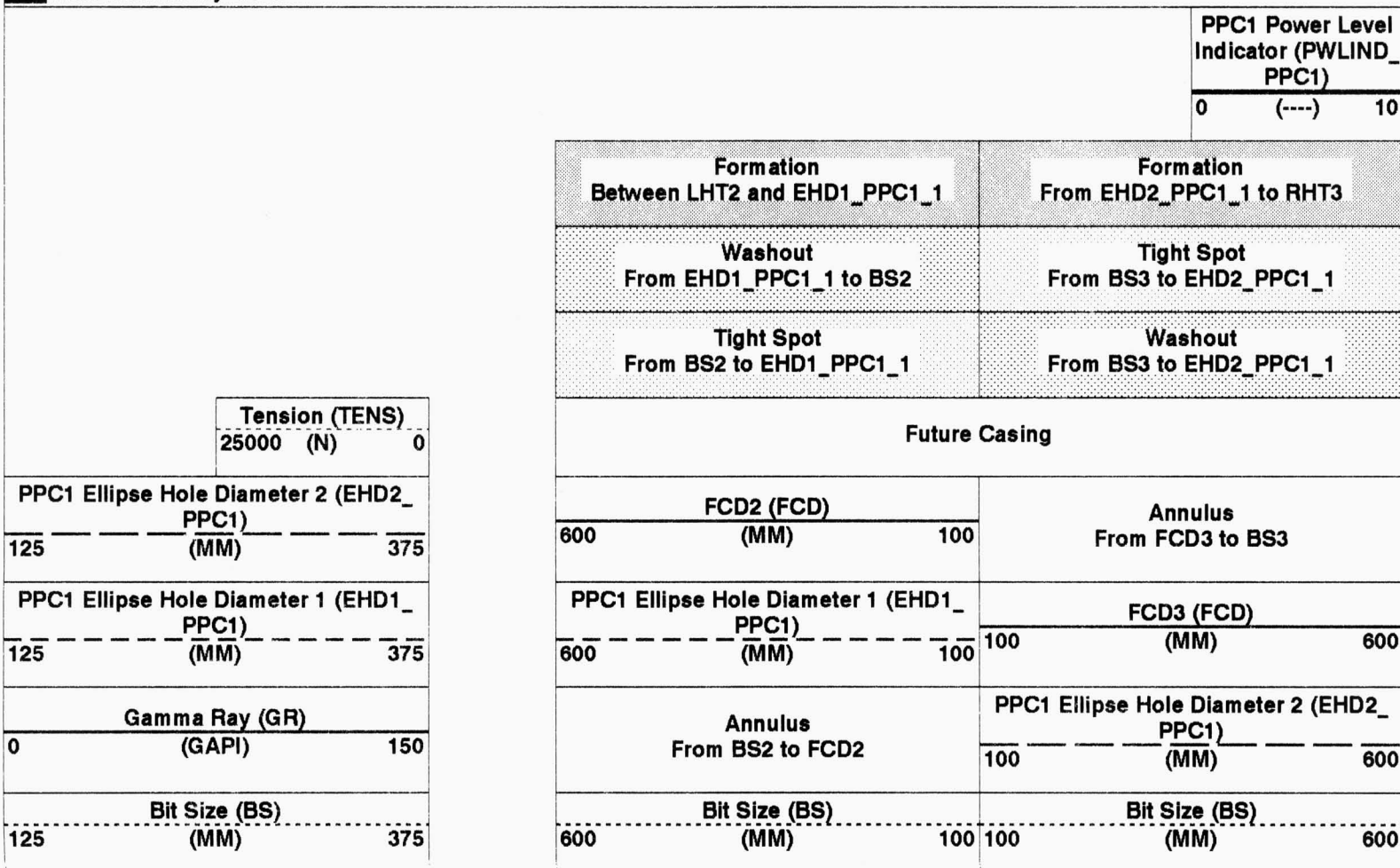
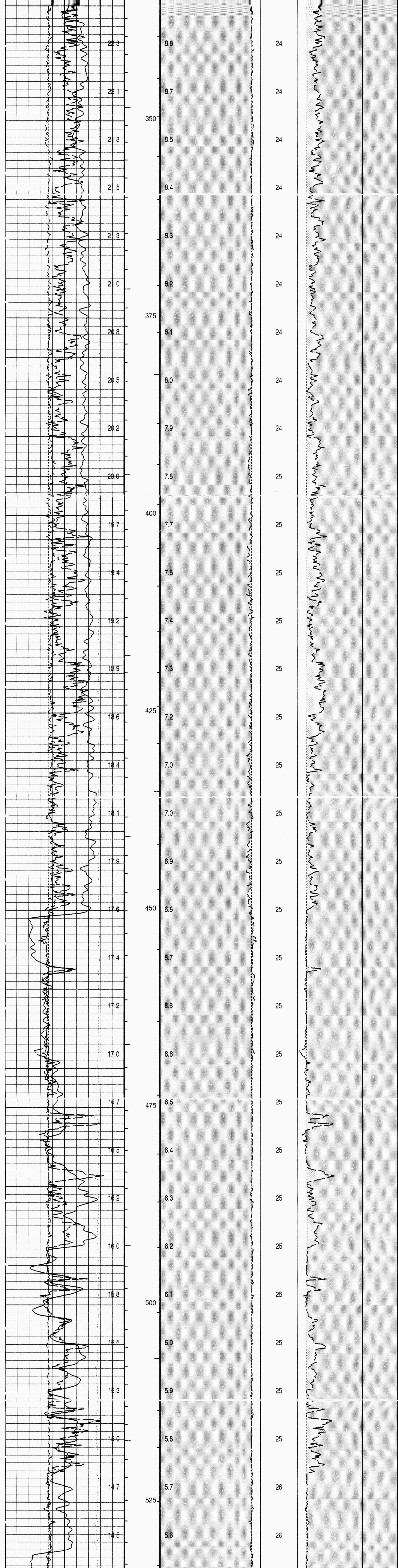
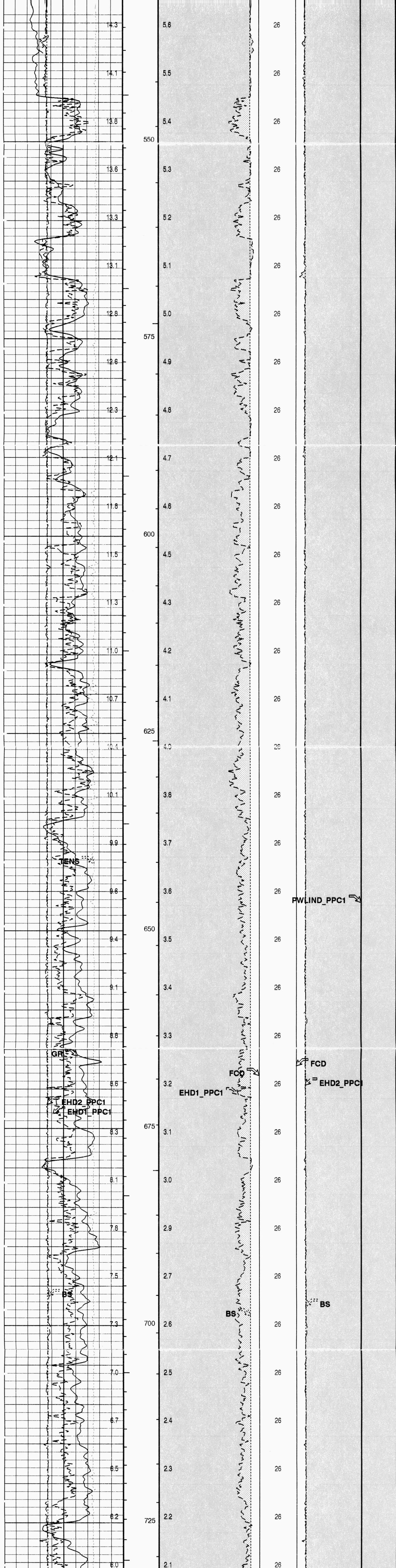








Parameters

DLIS Name	Description	Value
PPC1-B: Powered Positioning Device/Caliper 1		
CLBD_PPC	PPC1 Caliper Type	CAL STD
DIR: Directional Survey Computation	PPC Calibration data selection	ROM
SPVD	TVD of Starting Point	0 M
TIMD	Along-hole depth of Tie-in Point	260 M
TIVD	TVD of Tie-in Point	260 M
FCD	HOLEV: Integrated Hole/Cement Volume	
HVCS	Future Casing (Outer) Diameter	177.8 MM
	Integrated Hole Volume Caliper Selection	PPC1_Calipers
LBFR	STI: Stuck Tool Indicator	
TDD	Trigger for MAXIS First Reading Label	TDL
TDL	Total Depth - Driller	895.00 M
	Total Depth - Logger	887.00 M
System and Miscellaneous		
BS	Bit Size	216.000 MM
DO	Depth Offset for Playback	0.0 M
PP	Playback Processing	NORMAL
TD	Total Depth	887 M

Format: CVL_PPC_EHD Vertical Scale: 1:240

Graphics File Created: 17-Mar-2008 07:35

OP System Version: 15C0-309

MCM

FBST-B	15C0-309	DSST-B	15C0-309
PPC1-B	15C0-309	HNGC-B	SPC-3530-NUCL
HNGS-BA	SPC-3530-NUCL	SGT-N	15C0-309
DTC-H	9397		

Input DLIS Files

DEFAULT	FMI_DSI_CAL_NGS_015PUP	FN:24	PRODUCER	16-Mar-2008 23:14	889.3 M	241.6 M
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Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Full-Bore Scanner - B Wellsite Calibration - Caliper Calibration							
Before: 11-Mar-2008 11:34							
Caliper 1 Small Jig	203.2	N/A	193.6	N/A	N/A	N/A	MM
Caliper 2 Small Jig	203.2	N/A	200.2	N/A	N/A	N/A	MM
Caliper 1 Large Jig	304.8	N/A	288.1	N/A	N/A	N/A	MM
Caliper 2 Large Jig	304.8	N/A	294.3	N/A	N/A	N/A	MM
Full-Bore Scanner - B Wellsite Calibration - CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY							
Before: 16-Mar-2008 20:48							
TEMPERATURE REFERENCE :	N/A	N/A	20	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	6	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	12	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	1076	N/A	N/A	N/A	
Full-Bore Scanner - B Wellsite Calibration - CROUZET MAGNETOMETER PROM HAS BEEN READ CORRECTLY							
Before: 16-Mar-2008 20:48							
TEMPERATURE REFERENCE :	N/A	N/A	20	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	6	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	5	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	725	N/A	N/A	N/A	
Powered Positioning Device/Caliper 1 Wellsite Calibration - PPC1 Caliper Calibration							
Before: 11-Mar-2008 5:39							
PPC1 Radius 1 Raw Small Radius	88.90	N/A	112.4	N/A	N/A	12.70	MM
PPC1 Radius 1 Raw Large Radius	203.2	N/A	219.8	N/A	N/A	12.70	MM
PPC1 Radius 2 Raw Small Radius	88.90	N/A	85.19	N/A	N/A	12.70	MM
PPC1 Radius 2 Raw Large Radius	203.2	N/A	197.3	N/A	N/A	12.70	MM
PPC1 Radius 3 Raw Small Radius	88.90	N/A	110.5	N/A	N/A	12.70	MM
PPC1 Radius 3 Raw Large Radius	203.2	N/A	217.4	N/A	N/A	12.70	MM
PPC1 Radius 4 Raw Small Radius	88.90	N/A	86.44	N/A	N/A	12.70	MM
PPC1 Radius 4 Raw Large Radius	203.2	N/A	197.8	N/A	N/A	12.70	MM
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 1 Check							
Master: 4-Jan-2008 9:55 Before: 13-Mar-2008 10:56							
Na 511 Peak Loc	40.00	39.78	39.64	N/A	N/A	1.000	
Na 511 Peak Res	15.50	15.38	14.17	N/A	N/A	2.000	%
High Voltage	1150	1258	1230	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	143.7	143.0	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	8.442	8.769	N/A	N/A	2.000	%
Temperature	15.50	22.14	6.570	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	35.30	33.29	N/A	N/A	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 2 Check							
Master: 4-Jan-2008 9:55 Before: 13-Mar-2008 10:56							
Na 511 Peak Loc	40.00	39.66	39.76	N/A	N/A	1.000	
Na 511 Peak Res	15.50	14.86	15.01	N/A	N/A	2.000	%
High Voltage	1150	1273	1246	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	142.7	143.3	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	8.234	8.636	N/A	N/A	2.000	%
Temperature	15.50	21.49	5.965	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	35.28	33.29	N/A	N/A	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Ratio Of Detector 1 To Detector 2							
Master: 4-Jan-2008 9:55 Before: 13-Mar-2008 10:56							
Coincidence Count Rate Ratio	1.000	1.001	0.9992	N/A	N/A	0.05000	
Hostile Natural Gamma Ray Sonde Master Calibration - Detector 1 Calibration							
Master: 4-Jan-2008 9:50							
Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	211.0	--	--	--	--	
Th Peak Res	7.000	6.765	--	--	--	--	%
Background Count Rate	142.5	82.05	--	--	--	--	CPS
Gain Ratio	1.000	1.009	--	--	--	--	
Hostile Natural Gamma Ray Sonde Master Calibration - Detector 2 Calibration							
Master: 4-Jan-2008 9:50							
Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	211.2	--	--	--	--	
Th Peak Res	7.000	7.094	--	--	--	--	%
Background Count Rate	142.5	80.00	--	--	--	--	CPS
Gain Ratio	1.000	1.013	--	--	--	--	
Scintillation Gamma Ray Tool - N Wellsite Calibration - Detector Calibration							
Before: 13-Mar-2008 8:59							
Gamma Ray (Jig - Bkg)	165.2	N/A	165.2	N/A	N/A	15.02	GAPI
Gamma Ray (Calibrated)	167.0	N/A	167.0	N/A	N/A	15.00	GAPI

Full-Bore Scanner - B / Equipment Identification

Primary Equipment:

FullBore Scanner Sonde	FBSS - B	1728
FullBore Scanner Sonde Upper part	FBSS - A	1724
FullBore Scanner Sonde Cartridge	FBSC - B	1719
GPIT Cartridge - C	GPIC - C	1923
Insulating Sub	AH - 185	904
Flex Joint	AH - 184	1994
FullBore Scanner Control Cartridge	FBCC - A	1729

Auxiliary Equipment:

Electronics Cartridge Housing	ECH - MRA	6700
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Full-Bore Scanner - B Wellsite Calibration

Caliper Calibration

Phase	Caliper 1 Small Jig MM	Value	Phase	Caliper 2 Small Jig MM	Value
Before		193.8	Before		200.2
	172.7 (Minimum) 203.2 (Nominal) 233.7 (Maximum)			172.7 (Minimum) 203.2 (Nominal) 233.7 (Maximum)	
Phase	Caliper 1 Large Jig MM	Value	Phase	Caliper 2 Large Jig MM	Value
Before		288.1	Before		294.3
	259.1 (Minimum) 304.8 (Nominal) 350.5 (Maximum)			259.1 (Minimum) 304.8 (Nominal) 350.5 (Maximum)	

Before: 11-Mar-2008 11:34

Powered Positioning Device/Caliper 1 / Equipment Identification

Primary Equipment:

PPC Powered Positioning Device/Caliper	PPC1 - B	8149
PPC1 Caliper Standard	PPC1 -	8149

Auxiliary Equipment:

Powered Positioning Device/Caliper 1 Wellsite Calibration

PPC1 Caliper Calibration

Phase	PPC1 Radius 1 Raw Small Radius MM	Value	Phase	PPC1 Radius 1 Raw Large Radius MM	Value
Before		112.4	Before		219.8
	30.48 (Minimum) 88.90 (Nominal) 142.2 (Maximum)			154.9 (Minimum) 203.2 (Nominal) 246.4 (Maximum)	
Phase	PPC1 Radius 2 Raw Small Radius MM	Value	Phase	PPC1 Radius 2 Raw Large Radius MM	Value
Before		85.19	Before		197.3
	30.48 (Minimum) 88.90 (Nominal) 142.2 (Maximum)			154.9 (Minimum) 203.2 (Nominal) 246.4 (Maximum)	
Phase	PPC1 Radius 3 Raw Small Radius MM	Value	Phase	PPC1 Radius 3 Raw Large Radius MM	Value
Before		110.5	Before		217.4
	30.48 (Minimum) 88.90 (Nominal) 142.2 (Maximum)			154.9 (Minimum) 203.2 (Nominal) 246.4 (Maximum)	
Phase	PPC1 Radius 4 Raw Small Radius MM	Value	Phase	PPC1 Radius 4 Raw Large Radius MM	Value
Before		86.44	Before		197.8
	30.48 (Minimum) 88.90 (Nominal) 142.2 (Maximum)			154.9 (Minimum) 203.2 (Nominal) 246.4 (Maximum)	

Before: 11-Mar-2008 5:39

Hostile Natural Gamma Ray Cartridge - B / Equipment Identification

Primary Equipment:

HNGC Cartridge	HNGC - B 4	405
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Auxiliary Equipment:

HNGC Housing	HNGH - A	346
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Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:

HNGS Sonde	HNGS - BA	163
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Auxiliary Equipment:

HNGS Sonde Housing	HNSH - BA	160
Gamma Source Radioactive	GSR - U	1237

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		39.78	Master		15.38	Master		1258
Before		39.64	Before		14.17	Before		1230
	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		143.7	Master		8.442	Master		22.14
Before		143.0	Before		8.769	Before		6.570
	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		35.30						
Before		33.29						

10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)
Master: 4-Jan-2008 9:55		
Before: 13-Mar-2008 10:56		

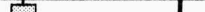
Hostile Natural Gamma Ray Sonde Wellsite Calibration														
Detector 2 Check														
Phase	Na 511 Peak Loc		Value	Phase	Na 511 Peak Res %		Value	Phase	High Voltage V		Value			
Master			39.66	Master			14.86	Master			1273			
Before			39.76	Before			15.01	Before			1246			
37.50 (Minimum)			40.00 (Nominal)	43.50 (Maximum)			12.00 (Minimum)	15.50 (Nominal)	19.00 (Maximum)					
Phase <th colspan="2">Na 1785 Peak Loc</th> <th>Value</th> <th>Phase</th> <th colspan="2">Na 1785 Peak Res %</th> <th>Value</th> <th>Phase</th> <th colspan="2">Temperature DEGC</th> <th>Value</th>	Na 1785 Peak Loc		Value	Phase	Na 1785 Peak Res %		Value	Phase	Temperature DEGC		Value			
Master			142.7	Master			8.234	Master			21.49			
Before			143.3	Before			8.636	Before			5.965			
135.0 (Minimum)			142.6 (Nominal)	150.3 (Maximum)			7.000 (Minimum)	8.500 (Nominal)	11.00 (Maximum)					
Phase <th colspan="2">Na Count Rate CPS</th> <th>Value</th> <td colspan="8" rowspan="5"></td>	Na Count Rate CPS		Value											
Master			35.28											
Before			33.29											
10.00 (Minimum)			45.00 (Nominal)									100.0 (Maximum)		
Master: 4-Jan-2008 9:55												Before: 13-Mar-2008 10:56		

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		1.001
Before		0.9992
0.9500 (Minimum)		
1.000 (Nominal)		
1.050 (Maximum)		
Master: 4-Jan-2008 9:55		
Before: 13-Mar-2008 10:56		

Hostile Natural Gamma Ray Sonde Master Calibration																				
Detector 1 Calibration																				
Phase	Na 511 Peak Set Point			Value	Phase	Th Peak Loc			Value	Phase	Th Peak Res %			Value						
Master				41.00	Master				211.0	Master				6.765						
38.00 (Minimum)				40.00 (Nominal)	43.00 (Maximum)				201.0 (Minimum)	209.6 (Nominal)				218.3 (Maximum)	5.000 (Minimum)	7.000 (Nominal)				9.000 (Maximum)
Phase	Background Count Rate CPS			Value	Phase	Gain Ratio			Value											
Master				82.05	Master				1.009											
10.00 (Minimum)				142.5 (Nominal)	265.0 (Maximum)				0.9400 (Minimum)						1.000 (Nominal)				1.060 (Maximum)	
Master: 4-Jan-2008 9:50																				

Hostile Natural Gamma Ray Sonde Master Calibration																	
Detector 2 Calibration																	
Phase	Na 511 Peak Set Point			Value	Phase	Th Peak Loc			Value	Phase	Th Peak Res %			Value			
Master				41.00	Master				211.2	Master				7.094			
38.00 (Minimum)				40.00 (Nominal)	43.00 (Maximum)				201.0 (Minimum)	209.6 (Nominal)	218.3 (Maximum)				5.000 (Minimum)	7.000 (Nominal)	9.000 (Maximum)
Phase	Background Count Rate CPS			Value	Phase	Gain Ratio			Value								
Master				80.00	Master				1.013								
10.00 (Minimum)				142.5 (Nominal)	265.0 (Maximum)				0.9400 (Minimum)						1.000 (Nominal)	1.060 (Maximum)	
Master: 4-Jan-2008 9:50																	

Scintillation Gamma Ray Tool - N / Equipment Identification			
Primary Equipment:			
Scintillation Gamma Cartridge	SGC - TB	10388	
Scintillation Gamma Detector	SGD - TAB		
Auxiliary Equipment:			
Scintillation Gamma Housing	SGH - K	3161	
Gamma Source Radioactive	GSR - U/Y		

Scintillation Gamma Ray Tool - N Wellsite Calibration											
Detector Calibration											
Phase	Gamma Ray Background GAPI		Value	Phase	Gamma Ray (Jig - Bkg) GAPI		Value	Phase	Gamma Ray (Calibrated) GAPI		Value
Before			10.66	Before			165.2	Before			167.0
0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)		150.2 (Minimum)	165.2 (Nominal)	180.2 (Maximum)		152.0 (Minimum)	167.0 (Nominal)	182.0 (Maximum)	
Before: 13-Mar-2008 8:59											

DTS Telemetry Tool / Equipment Identification			
Primary Equipment:			
DTC-H Auxiliary Cartridge	DTCH - A	9397	
DTC-H Telemetry Cartridge	DTCH - A	9397	
Auxiliary Equipment:			
DTCH Telemetry Cartridge Housing	ECH - KC	10485	

Company:	HUSKY OIL OPERATIONS LIMITED	Schlumberger
Well:	HUSKY et al KEELE RIVER L-52	
Field:	NORTH CLOVERLEAF	
Province:	NORTHWEST TERRITORIES	
	MD	***MD***