

Company: Vulcan Minerals Inc.
Well: Storm #1
Field: Undefined
Province: Newfoundland **Location:** Storm

High Resolution Laterolog Array

Province: Newfoundland
Field: Undefined
Location: UTM (NAD 27)
Well: Storm #1
Company: Vulcan Minerals Inc.

LOCATION		
UTM (NAD 27)		Elev
Northing: 5363895; Easting: 393475		
Permanent Datum:	Ground Level	Elev
Log Measured From:	Rig Floor	2.9
Drilling Measured From:	Rig Floor	

API Serial No.	Nd
	53

Logging Date	11-Aug-2005	
Run Number	1	
Depth Driller	880.5 m	
Schlumberger Depth	600 m	
Bottom Log Interval	566 m	
Top Log Interval	540 m	
Casing Driller Size @ Depth	177.800 mm	@ 250 m
Casing Schlumberger	250 m	
Bit Size	156.000 mm	
Type Fluid In Hole	Fresh mud	
Density	1140 kg/m3	35 s
Fluid Loss	PH	
Source Of Sample	Mud tank	
RM @ Measured Temperature	1.180 ohm.m	@ 18 degC
RMF @ Measured Temperature		@
RMC @ Measured Temperature		@
Source RMF	RMC	
RM @ MRT	1.313 @ 14	@ 14
Maximum Recorded Temperatures	14 degC	
Circulation Stopped	11-Aug-2005	10:00
Logger On Bottom	11-Aug-2005	17:30
Unit Number	3009	Dartmouth
Recorded By	Andrea Doyle	
Witnessed By	Karla Smith	

95 m
above Perm. Datum

63895	Easting 393475
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DEPTH SUMMARY LISTING		
Date Created: 14-AUG-2005 23:03:42		
Depth System Equipment		
Depth Measuring Device	Tension Device	Logging Cable
Type: IDW-B Serial Number: 4924 Calibration Date: 29-Apr-2005 Calibrator Serial Number: 1 Calibration Cable Type: 7-39P-LXS Wheel Correction 1: -3 Wheel Correction 2: -3	Type: CMTD-B/A Serial Number: 1109 Calibration Date: 09-Aug-2005 Calibrator Serial Number: 78797 Calibration Gain: 0.94 Calibration Offset: 314.00	Type: 7-39P-LXS Serial Number: 2 Length: 3300.07 M Conveyance Method: Wireline Rig Type: LAND

Depth Control Parameters					

Depth Control Parameters

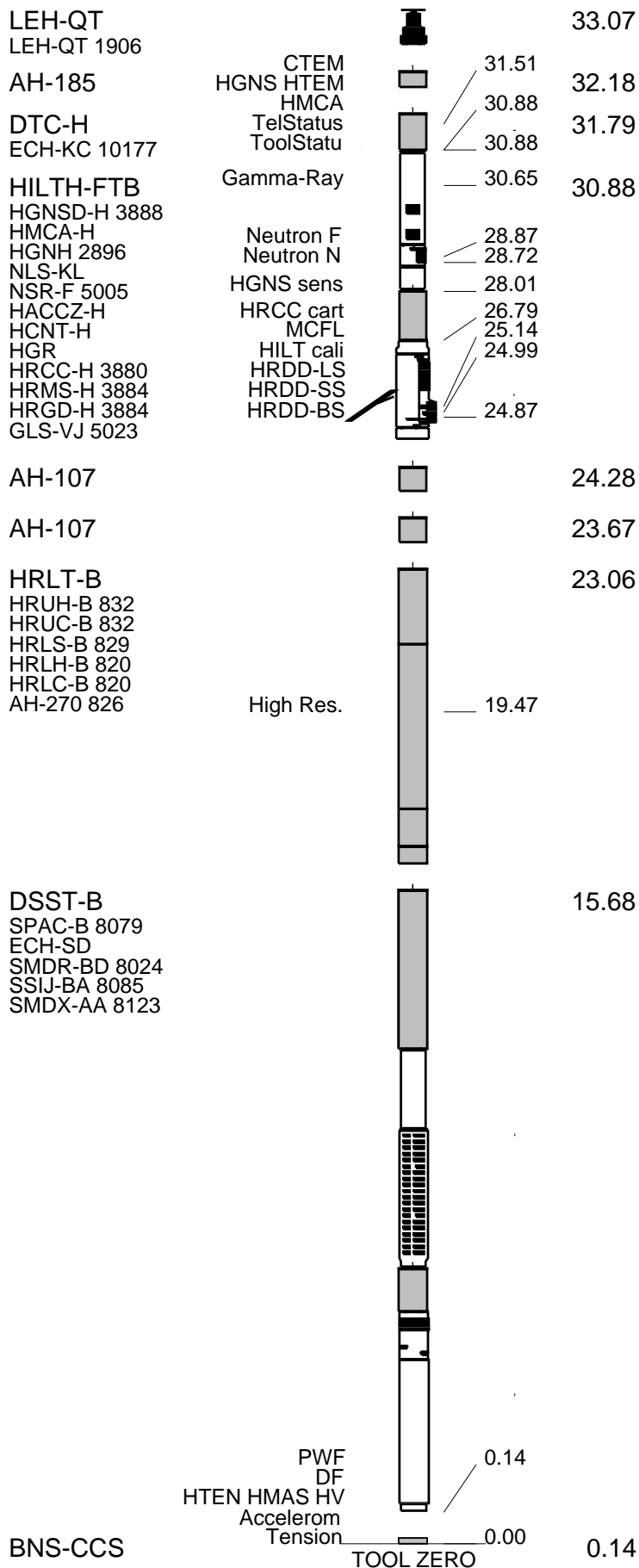
Log Sequence:	First Log In the Well
Rig Up Length At Surface:	0.00 M
Rig Up Length At Bottom:	0.00 M
Rig Up Length Correction:	0.00 M
Stretch Correction:	0.30 M
Tool Zero Check At Surface:	-50000.00 M

Depth Control Remarks
1. Primary depth control was a calibrated IDW.
2.
3.
4.
5.
6.

<p style="text-align: center;">DISCLAIMER</p> <p>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.</p>
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OTHER SERVICES1			OTHER SERVICES2		
OS1: PEX			OS1:		
OS2: DSI			OS2:		
OS3:			OS3:		
OS4:			OS4:		
OS5:			OS5:		
REMARKS: RUN NUMBER 1			REMARKS: RUN NUMBER 2		
Data acquired prior to fishing job for logging tools.					
Bottom of tool was at 586m when stuck.					
Tool was determined to be stuck at the tool by using					
LEH-QT head tension (3000 lbs while stuck).					
Toolstring run as per tool sketch.					
Logs run on a sandstone matrix					
(MDEN=2650 kg/m^3, DTM=183 us/ft).					
Dartmouth District: 902-468-6474					
Crew: Steve Beaton, Harry Creemer					
<div>RUN 1</div> <div>SERVICE ORDER #: 11033559</div> <div>PROGRAM VERSION: 13C0-300</div> <div>FLUID LEVEL: 60 m</div>			<div>RUN 2</div> <div>SERVICE ORDER #:</div> <div>PROGRAM VERSION:</div> <div>FLUID LEVEL:</div>		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION	
RUN 1	RUN 2
<div>SURFACE EQUIPMENT</div> <div>GSR-U/Y</div> <div>NCT-B</div> <div>CNB-AB</div> <div>NCS-VB</div>	
DOWNHOLE EQUIPMENT	



MAXIMUM STRING DIAMETER 117 MM
 MEASUREMENTS RELATIVE TO TOOL ZERO
 ALL LENGTHS IN METERS

Company: Vulcan Minerals Inc.

Well: Storm #1

Input DLIS Files

DEFAULT MERGE_DSI_HRLA_TLD_025 FN:1 PRODUCER 13-Aug-2005 13:31 596.3 M 538.3 M

Output DLIS Files

DEFAULT DSI_HRLA_TLD_MCFL_041PUP FN:39 PRODUCER 13-Aug-2005 18:26

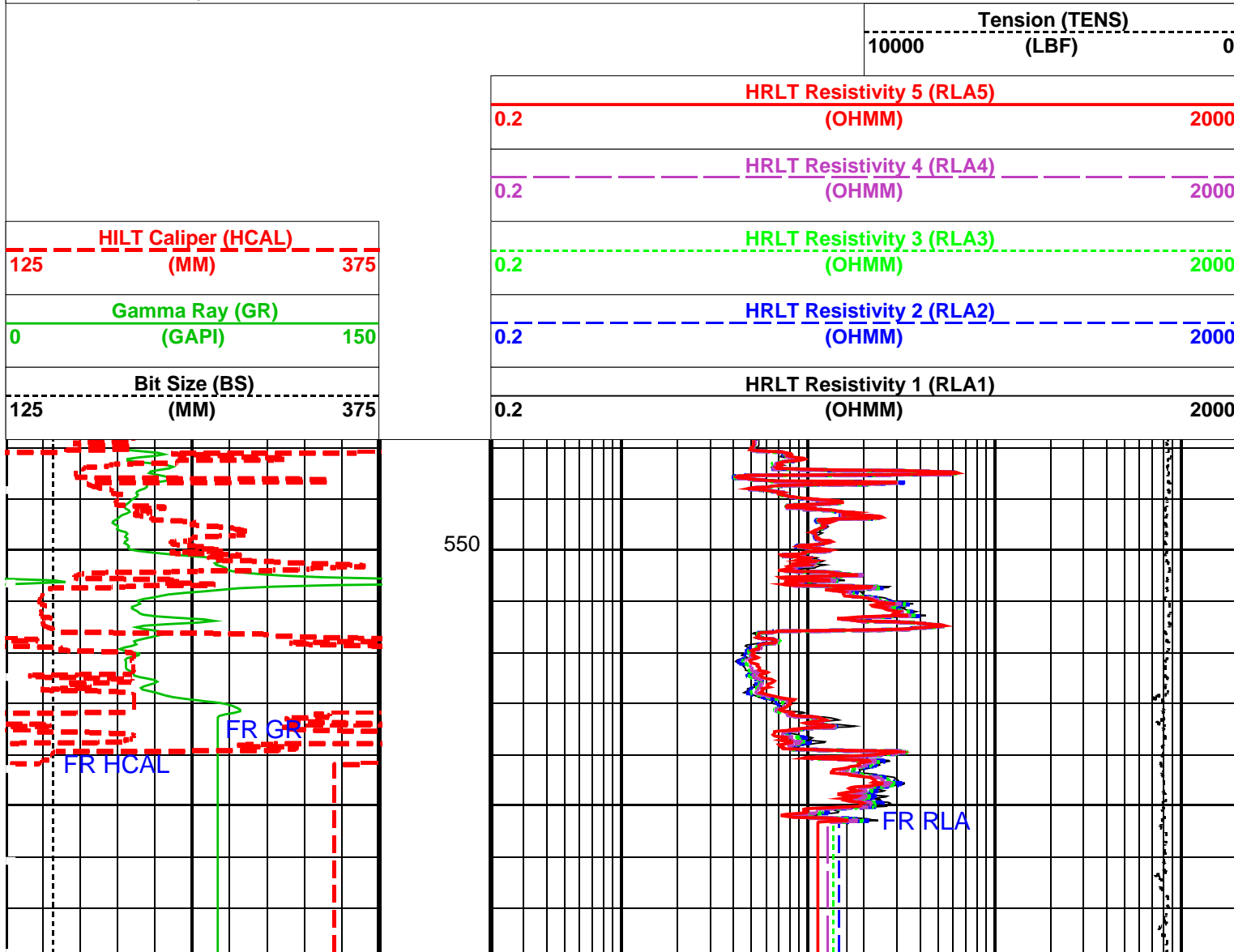
OP System Version: 13C0-300

MCM

DSST-B 13C0-300
HILTH-FTB SRPC-2788-HILTHRLT-B 13C0-300
DTC-H 13C0-300

PIP SUMMARY

Time Mark Every 60 S



0.2	HRLT Resistivity 1 (RLA1) (OHMM)	2000
0.2	HRLT Resistivity 2 (RLA2) (OHMM)	2000
0.2	HRLT Resistivity 3 (RLA3) (OHMM)	2000
0.2	HRLT Resistivity 4 (RLA4) (OHMM)	2000
0.2	HRLT Resistivity 5 (RLA5) (OHMM)	2000

PIP SUMMARY

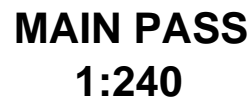
Parameters

Format: HRLA 600 Vertical Scale: 1:600 Graphics File Created: 13-Aug-2005 18:26

DSST-B	13C0-300	HRLT-B	13C0-300
HILTH-FTB	SRPC-2788-HILT	DTC-H	13C0-300

DEFAULT	MERGE DSI HRLA TLD 025	FN:1	PRODUCER	13-Aug-2005 13:31	596.3 M	538.3 M
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DEFAULT	DSI	HRLA	TLD	MCFL	041PUP	FN:39	PRODUCER	13-Aug-2005 18:26
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MAXIS Field Log

Company: Vulcan Minerals Inc.	Well: Storm #1
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DEFAULT	MERGE DSI HRLA TLD 025	FN:1	PRODUCER	13-Aug-2005 13:31	596.3 M	538.3 M
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DEFAULT

DSI_HRLA_TLD_MCFL_041PUP

FN:39

PRODUCER

13-Aug-2005 18:26

OP System Version: 13C0-300

MCM

DSST-B
HILTH-FTB

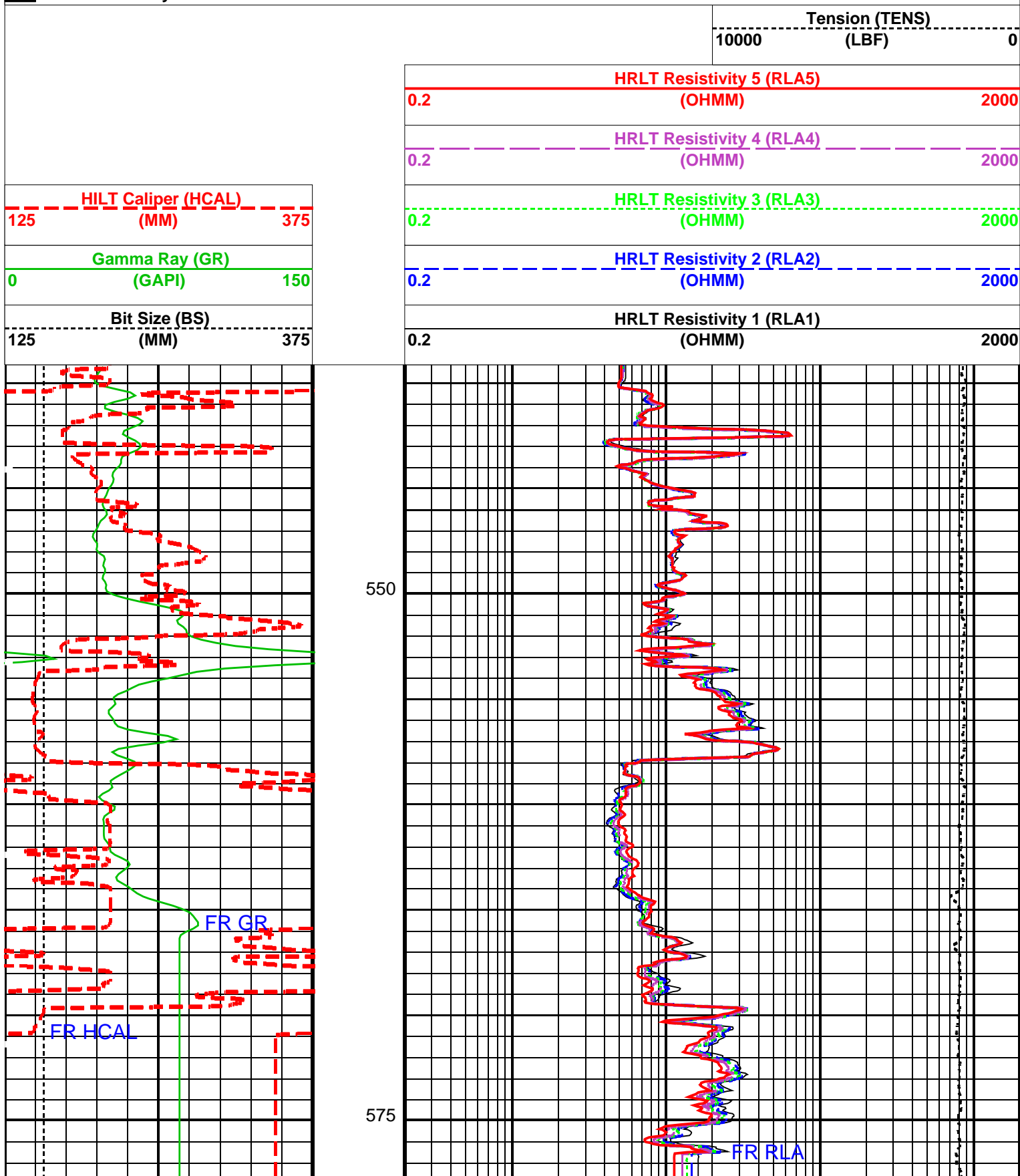
13C0-300
SRPC-2788-HILT

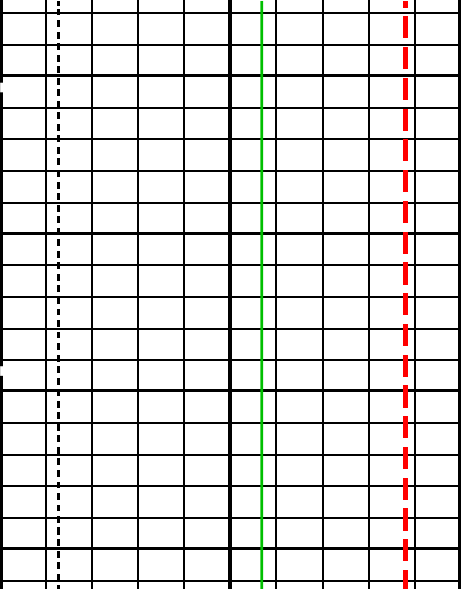
HRLT-B
DTC-H

13C0-300
13C0-300

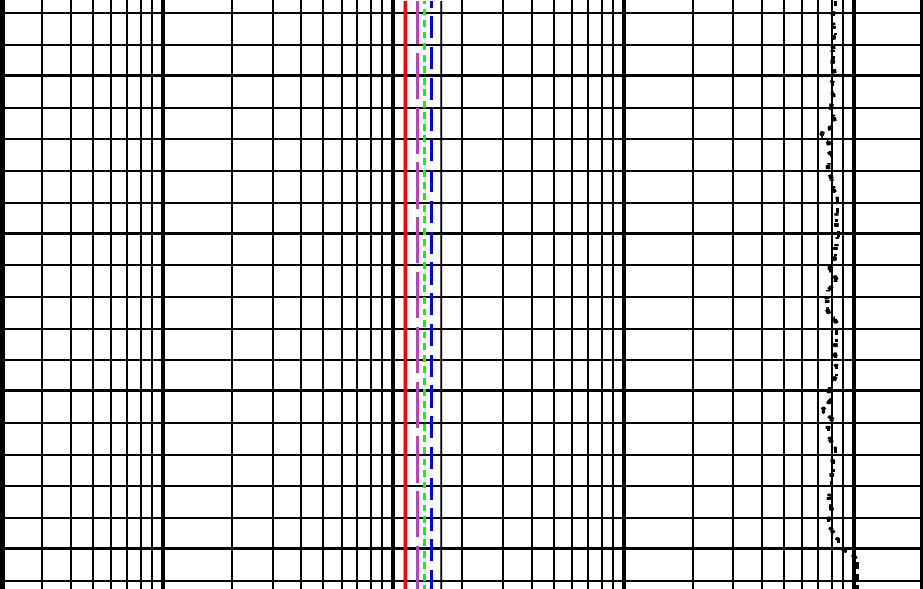
PIP SUMMARY

Time Mark Every 60 S





Bit Size (BS)		
125	(MM)	375
Gamma Ray (GR)		
0	(GAPI)	150
HILT Caliper (HCAL)		
125	(MM)	375



HRLT Resistivity 1 (RLA1)		
0.2	(OHMM)	2000
HRLT Resistivity 2 (RLA2)		
0.2	(OHMM)	2000
HRLT Resistivity 3 (RLA3)		
0.2	(OHMM)	2000
HRLT Resistivity 4 (RLA4)		
0.2	(OHMM)	2000
HRLT Resistivity 5 (RLA5)		
0.2	(OHMM)	2000

Tension (TENS)		
10000	(LBF)	0

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
KFAC_HRLT	HRLT-B: High Resolution Laterolog Array - B HRLT K Factor Option	SONDE
BS	System and Miscellaneous Bit Size	156.000 MM
DO	Depth Offset for Playback	0.0 M
PP	Playback Processing	RECOMPUTE

Format: HRLA 240 Vertical Scale: 1:240 Graphics File Created: 13-Aug-2005 18:26

OP System Version: 13C0-300
MCM

DSST-B	13C0-300	HRLT-B	13C0-300
HILTH-FTB	SRPC-2788-HILT	DTC-H	13C0-300

Input DLIS Files

DEFAULT	MERGE_DSI_HRLA_TLD_025	FN:1	PRODUCER	13-Aug-2005 13:31	596.3 M	538.3 M
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Output DLIS Files

DEFAULT	DSI_HRLA_TLD_MCFL_041PUP	FN:39	PRODUCER	13-Aug-2005 18:26
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MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
High Resolution Laterolog Array - B Wellsite Calibration - HRLT M01							
Before: 11-Aug-2005 16:33							
HRLT M0-M1 Voltage Plus - 0	0	N/A	-316.6	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus - 1	0	N/A	-314.3	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus - 2	0	N/A	-319.5	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus - 3	0	N/A	-327.8	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus - 4	0	N/A	-321.5	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus - 5	0	N/A	-321.9	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus - 6	0	N/A	332.0	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: 11-Aug-2005 16:33							
HRLT M1-M2 Voltage Plus - 0	0	N/A	1721	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus - 1	0	N/A	1696	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus - 2	0	N/A	1724	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus - 3	0	N/A	1773	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus - 4	0	N/A	1744	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus - 5	0	N/A	1748	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus - 6	0	N/A	-1799	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: 11-Aug-2005 16:33							
HRLT M2-M3 Voltage Plus - 0	0	N/A	1713	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 1	0	N/A	1701	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 2	0	N/A	1730	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 3	0	N/A	1782	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 4	0	N/A	1746	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 5	0	N/A	1751	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 6	0	N/A	-1793	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: 11-Aug-2005 16:33							
HRLT A3-A4 Voltage Plus - 0	0	N/A	67690	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 1	0	N/A	67230	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 2	0	N/A	68580	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 3	0	N/A	70820	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 4	0	N/A	69330	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 5	0	N/A	69530	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 6	0	N/A	-69850	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: 11-Aug-2005 16:33							
HRLT A4-A5 Voltage Plus - 0	0	N/A	67780	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 1	0	N/A	67270	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 2	0	N/A	68640	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 3	0	N/A	70880	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 4	0	N/A	69410	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 5	0	N/A	69620	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 6	0	N/A	-69890	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: 11-Aug-2005 16:33							
HRLT A5-A6 Voltage Plus - 0	0	N/A	67580	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 1	0	N/A	67100	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 2	0	N/A	68460	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 3	0	N/A	70710	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 4	0	N/A	69230	N/A	N/A	2100	UV

HRLT A5-A6 Voltage Plus - 5	0	N/A	69440	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 6	0	N/A	-69710	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: 11-Aug-2005 16:33							
HRLT Torpedo-M0 Voltage - 0	0	N/A	-67520	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 1	0	N/A	-67600	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 2	0	N/A	-68910	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 3	0	N/A	-71170	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 4	0	N/A	-69630	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 5	0	N/A	-69830	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 6	0	N/A	70190	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: 11-Aug-2005 16:33							
HRLT Bridle#9-M0 Voltage - 0	0	N/A	-67530	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 1	0	N/A	-67570	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 2	0	N/A	-68900	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 3	0	N/A	-71160	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 4	0	N/A	-69630	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 5	0	N/A	-69830	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 6	0	N/A	70170	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: 11-Aug-2005 16:33							
HRLT Source Current Plus - 0	0	N/A	282.0	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: 11-Aug-2005 16:33							
HRLT Vertical Voltage PI - 0	0	N/A	-319.3	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 1	0	N/A	-308.0	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 2	0	N/A	-312.8	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 3	0	N/A	-319.8	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 4	0	N/A	-311.3	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 5	0	N/A	-326.8	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 6	0	N/A	338.8	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: 10-Aug-2005 0:38							
BS Window Ratio	0.7346	N/A	0.7358	N/A	N/A	N/A	
BS Window Sum	27380	N/A	27400	N/A	N/A	N/A	CPS
SS Window Ratio	0.4855	N/A	0.4876	N/A	N/A	N/A	
SS Window Sum	12690	N/A	12670	N/A	N/A	N/A	CPS
LS Window Ratio	0.3002	N/A	0.2969	N/A	N/A	N/A	
LS Window Sum	1536	N/A	1527	N/A	N/A	N/A	CPS
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Photo-multiplier High Voltages Calibrations							
Before: 10-Aug-2005 0:38							
BS PM High Voltage (Command)	1544	N/A	1576	N/A	N/A	N/A	V
SS PM High Voltage (Command)	1502	N/A	1542	N/A	N/A	N/A	V
LS PM High Voltage (Command)	1393	N/A	1420	N/A	N/A	N/A	V
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Crystal Quality Resolutions Calibration							
Before: 10-Aug-2005 0:38							
BS Crystal Resolution	10.81	N/A	10.80	N/A	N/A	N/A	%
SS Crystal Resolution	8.183	N/A	8.387	N/A	N/A	N/A	%
LS Crystal Resolution	8.219	N/A	8.083	N/A	N/A	N/A	%
High resolution Integrated Logging Tool-DTS Wellsite Calibration - MCFL Calibration							
Before: 10-Aug-2005 0:34							
Raw B0 Resistivity	3875	N/A	3890	N/A	N/A	N/A	OHMM
Raw B1 Resistivity	3830	N/A	3721	N/A	N/A	N/A	OHMM
Raw B2 Resistivity	3830	N/A	3828	N/A	N/A	N/A	OHMM
High resolution Integrated Logging Tool-DTS Wellsite Calibration - HILT Caliper Calibration							
Before: 10-Aug-2005 0:37							
HILT Caliper Zero Measurement	203.2	N/A	187.8	N/A	N/A	N/A	MM
HILT Caliper Plus Measurement	304.8	N/A	292.5	N/A	N/A	N/A	MM
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Detector Calibration							

Before: 10-Aug-2005 0:35								
Gamma Ray Background	30.00	N/A	46.51	N/A	N/A	N/A	N/A	GAPI
Gamma Ray (Jig - Bkg)	177.3	N/A	177.3	N/A	N/A	N/A	16.12	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	N/A	15.00	GAPI
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Zero Measurement								
Master: 8-Jun-2005 17:49 Before: 10-Aug-2005 0:43								
CNTC Background	29.00	29.00	28.72	N/A	N/A	4.350	CPS	
CFTC Background	31.22	31.22	33.99	N/A	N/A	4.683	CPS	
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Ratio Measurement								
Master: 8-Jun-2005 17:49								
Thermal Near Corr. (Tank)	6031	5042	N/A	N/A	N/A	N/A	CPS	
Thermal Far Corr. (Tank)	2793	2179	N/A	N/A	N/A	N/A	CPS	
CNTC/CFTC (Tank)	2.159	2.314	N/A	N/A	N/A	N/A		
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Accelerometer Calibration								
Before: 11-Aug-2005 16:05								
Z-Axis Acceleration	9.810	N/A	9.787	N/A	N/A	N/A	M/S2	
High resolution Integrated Logging Tool-DTS Master Calibration - Inversion results								
Master: 10-Aug-2005 0:23								
Rho Aluminum	2596	2592	--	--	--	--	K/M3	
Rho Magnesium	1686	1692	--	--	--	--	K/M3	
Pe Aluminum	2.570	2.525	--	--	--	--		
Pe Magnesium	2.650	2.619	--	--	--	--		
High resolution Integrated Logging Tool-DTS Master Calibration - Deviation Summary								
Master: 10-Aug-2005 0:23								
BS Average Deviation	0	0.3050	--	--	--	--	%	
BS Max Deviation	0	0.8187	--	--	--	--	%	
SS Average Deviation	0	0.5156	--	--	--	--	%	
SS Max Deviation	0	1.667	--	--	--	--	%	
LS Average Deviation	0	1.262	--	--	--	--	%	
LS Max Deviation	0	2.263	--	--	--	--	%	

The GLS-VJ source activity is acceptable.

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

NCT-B Water Temperature 18.5 DEGC.
Thermal Housing Size 85.725 MM.
NSR-F serial number 5005

High Resolution Laterolog Array - B / Equipment Identification

Primary Equipment:

HRLT Sonde

HRLS - B 829

Auxiliary Equipment:

HRLT lower Housing

HRLH - B 820

HRLT Lower Cartridge









HRLC - B 820

HRLT upper Housing









HRUH - B 832









HRLT Upper Cartridge









HRUC - B 832



High Resolution Laterolog Array - B Wellsite Calibration						
HRLT M01						
Idx	Phase	HRLT M0-M1 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-316.6	-322.7	-280.7	-379.7
1	Before		-314.3	-322.7	-280.7	-379.7
2	Before		-319.5	-322.7	-280.7	-379.7
3	Before		-327.8	-322.7	-280.7	-379.7
4	Before		-321.5	-322.7	-280.7	-379.7
5	Before		-321.9	-322.7	-280.7	-379.7
6	Before		332.0	322.7	379.7	280.7
7	Before		322.7	322.7	379.7	280.7







7	Before		-322.7	-322.7	-280.7	-379.7
		(Minimum)	(Nominal)	(Maximum)		
Before: 11-Aug-2005 16:33						









High Resolution Laterolog Array - B Wellsite Calibration						
HRLT M12						
Idx	Phase	HRLT M1-M2 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1721	1781	2095	1549
1	Before		1696	1781	2095	1549
2	Before		1724	1781	2095	1549
3	Before		1773	1781	2095	1549
4	Before		1744	1781	2095	1549
5	Before		1748	1781	2095	1549
6	Before		-1799	-1781	-1549	-2095
7	Before		1781	1781	2095	1549
		(Minimum)	(Nominal)	(Maximum)		
Before: 11-Aug-2005 16:33						









High Resolution Laterolog Array - B Wellsite Calibration						
HRLT M23						
Idx	Phase	HRLT M2-M3 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1713	1781	2095	1549
1	Before		1701	1781	2095	1549
2	Before		1730	1781	2095	1549
3	Before		1782	1781	2095	1549
4	Before		1746	1781	2095	1549
5	Before		1751	1781	2095	1549
6	Before		-1793	-1781	-1549	-2095
7	Before		1781	1781	2095	1549
		(Minimum)	(Nominal)	(Maximum)		
Before: 11-Aug-2005 16:33						









High Resolution Laterolog Array - B Wellsite Calibration						
HRLT V34						
Idx	Phase	HRLT A3-A4 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		67690	70000	82360	60900
1	Before		67230	70000	82360	60900
2	Before		68580	70000	82360	60900
3	Before		70820	70000	82360	60900
4	Before		69330	70000	82360	60900
5	Before		69530	70000	82360	60900
6	Before		-69850	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
		(Minimum)	(Nominal)	(Maximum)		
Before: 11-Aug-2005 16:33						

High Resolution Laterolog Array - B Wellsite Calibration						
HRLT V45						
Idx	Phase	HRLT A4-A5 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		67780	70000	82360	60900
1	Before		67270	70000	82360	60900









2	Before		68640	70000	82360	60900
3	Before		70880	70000	82360	60900
4	Before		69410	70000	82360	60900
5	Before		69620	70000	82360	60900
6	Before		-69890	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
			(Minimum)	(Nominal)	(Maximum)	
Before: 11-Aug-2005 16:33						









High Resolution Laterolog Array - B Wellsite Calibration						
HRLT V56						
Idx	Phase	HRLT A5-A6 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		67580	70000	82360	60900
1	Before		67100	70000	82360	60900
2	Before		68460	70000	82360	60900
3	Before		70710	70000	82360	60900
4	Before		69230	70000	82360	60900
5	Before		69440	70000	82360	60900
6	Before		-69710	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
			(Minimum)	(Nominal)	(Maximum)	
Before: 11-Aug-2005 16:33						

High Resolution Laterolog Array - B Wellsite Calibration						
HRLT VTP						
Idx	Phase	HRLT Torpedo-M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-67520	-70000	-60900	-82360
1	Before		-67600	-70000	-60900	-82360
2	Before		-68910	-70000	-60900	-82360
3	Before		-71170	-70000	-60900	-82360
4	Before		-69630	-70000	-60900	-82360
5	Before		-69830	-70000	-60900	-82360
6	Before		70190	70000	82360	60900
7	Before		-70000	-70000	-60900	-82360
			(Minimum)	(Nominal)	(Maximum)	
Before: 11-Aug-2005 16:33						

High Resolution Laterolog Array - B Wellsite Calibration						
HRLT VBD						
Idx	Phase	HRLT Bridle#9-M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-67530	-70000	-60900	-82360
1	Before		-67570	-70000	-60900	-82360
2	Before		-68900	-70000	-60900	-82360
3	Before		-71160	-70000	-60900	-82360
4	Before		-69630	-70000	-60900	-82360
5	Before		-69830	-70000	-60900	-82360
6	Before		70170	70000	82360	60900
7	Before		-70000	-70000	-60900	-82360
			(Minimum)	(Nominal)	(Maximum)	

	(Minimum)	(Nominal)	(Maximum)
Before: 11-Aug-2005 16:33			

High Resolution Laterolog Array - B Wellsite Calibration						
HRLT ISO						
Idx	Phase	HRLT Source Current Plus UA	Value	Nominal	Maximum	Minimum
0	Before		282.0	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: 11-Aug-2005 16:33						

High Resolution Laterolog Array - B Wellsite Calibration						
HRLT MV						
Idx	Phase	HRLT Vertical Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-319.3	-322.7	-280.7	-379.7
1	Before		-308.0	-322.7	-280.7	-379.7
2	Before		-312.8	-322.7	-280.7	-379.7
3	Before		-319.8	-322.7	-280.7	-379.7
4	Before		-311.3	-322.7	-280.7	-379.7
5	Before		-326.8	-322.7	-280.7	-379.7
6	Before		338.8	322.7	379.7	280.7
7	Before		-322.7	-322.7	-280.7	-379.7
		(Minimum) (Nominal) (Maximum)				
Before: 11-Aug-2005 16:33						

High resolution Integrated Logging Tool-DTS / Equipment Identification			
Primary Equipment:			
HILT high-Resolution Mechanical Sonde	HRMS - H	3884	
HILT Rxo Gamma-ray Device	HRGD - H	3884	
HILT Micro Cylindrically Focused Log Dev	MCFL - H		
GR Logging Source	GLS - VJ	5023	
HILT High Res. Control Cartridge	HRCC - H	3880	
HILT Gamma-Ray Neutron Sonde-DTS	HGNS - H	3888	
HILT Gamma-Ray Device	HGR -		
HILT Neutron Detector with Alpha Source	HCNT - H		
Auxiliary Equipment:			
Neutron Calibration Tank	NCT - B		
Gamma Source Radioactive	GSR - U/Y		

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	<div><div></div></div>			0.7358	Before	<div><div></div></div>			0.4876	Before	<div><div></div></div>			0.2969
	0.6979 (Minimum)	0.7346 (Nominal)	0.7713 (Maximum)		0.4612 (Minimum)	0.4855 (Nominal)	0.5097 (Maximum)			0.2852 (Minimum)	0.3002 (Nominal)	0.3152 (Maximum)		
Phase	BS Window Sum CPS			Value	Phase	SS Window Sum CPS			Value	Phase	LS Window Sum CPS			Value
Before	<div><div></div></div>			27400	Before	<div><div></div></div>			12670	Before	<div><div></div></div>			1527
	26010 (Minimum)	27380 (Nominal)	28750 (Maximum)		12050 (Minimum)	12690 (Nominal)	13320 (Maximum)			1459 (Minimum)	1536 (Nominal)	1612 (Maximum)		

Before: 10-Aug-2005 0:38

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				1576	Before				1542	Before				1420
	1444 (Minimum)	1544 (Nominal)	1644 (Maximum)		1402 (Minimum)	1502 (Nominal)	1602 (Maximum)			1293 (Minimum)	1393 (Nominal)	1493 (Maximum)		
Before: 10-Aug-2005 0:38														

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			10.80	Before			8.387	Before			8.083
	9.806 (Minimum)	10.81 (Nominal)	11.81 (Maximum)		7.183 (Minimum)	8.183 (Nominal)	9.183 (Maximum)		7.219 (Minimum)	8.219 (Nominal)	9.219 (Maximum)
Before: 10-Aug-2005 0:38											


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				3890	Before				3721	Before				3828
	3565 (Minimum)	3875 (Nominal)	4185 (Maximum)		3524 (Minimum)	3830 (Nominal)	4136 (Maximum)			3524 (Minimum)	3830 (Nominal)	4136 (Maximum)		
Before: 10-Aug-2005 0:34														

High resolution Integrated Logging Tool-DTS Wellsite Calibration									
HILT Caliper Calibration									
Phase	HILT Caliper Zero Measurement MM			Value	Phase	HILT Caliper Plus Measurement MM			Value
Before				187.8	Before				292.5
	152.4 (Minimum)	203.2 (Nominal)	254.0 (Maximum)			228.6 (Minimum)	304.8 (Nominal)	381.0 (Maximum)	
Before: 10-Aug-2005 0:37									

High resolution Integrated Logging Tool-DTS Wellsite Calibration														
Detector Calibration														
Phase	Gamma Ray Background GAPI			Value	Phase	Gamma Ray (Jig - Bkg) GAPI			Value	Phase	Gamma Ray (Calibrated) GAPI			Value
Before				46.51	Before				177.3	Before				165.0
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)		161.2 (Minimum)	177.3 (Nominal)	193.4 (Maximum)		150.0 (Minimum)	165.0 (Nominal)	180.0 (Maximum)			
Before: 10-Aug-2005 0:35														

High resolution Integrated Logging Tool-DTS Wellsite Calibration							
Zero Measurement							
Phase	CNTC Background CPS		Value	Phase	CFTC Background CPS		Value
Master			29.00	Master			31.22
Before			28.72	Before			33.99
5.000 (Minimum)			29.00 (Nominal)	40.00 (Maximum)			
Master: 8-Jun-2005 17:49				Before: 10-Aug-2005 0:43			

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				5042	Master				2179	Master				2.314
5000 (Minimum) 6031 (Nominal) 7200 (Maximum)					2075 (Minimum) 2793 (Nominal) 3125 (Maximum)					2.120 (Minimum) 2.159 (Nominal) 2.540 (Maximum)				
Master: 8-Jun-2005 17:49														

High resolution Integrated Logging Tool-DTS Wellsite Calibration		
Accelerometer Calibration		
Phase	Z-Axis Acceleration M/S2	Value
Before		9.787
	9.610 9.810 10.01	

9.810 (Minimum)	9.810 (Nominal)	10.01 (Maximum)
Before: 11-Aug-2005 16:05		

High resolution Integrated Logging Tool-DTS Master Calibration							
Inversion results							
Phase	Rho Aluminum K/M3		Value	Phase	Rho Magnesium K/M3		Value
Master			2592	Master			1692
2586 (Minimum)			2596 (Nominal)	1676 (Minimum)			1696 (Maximum)
2606 (Maximum)				1686 (Nominal)			
Phase	Pe Aluminum		Value	Phase	Pe Magnesium		Value
Master			2.525	Master			2.619
2.470 (Minimum)			2.570 (Nominal)	2.550 (Minimum)			2.650 (Nominal)
2.670 (Maximum)				2.750 (Maximum)			
Master: 10-Aug-2005 0:23							

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				0.3050	Master				0.5156	Master				1.262
-0.6000 0 0.6000 (Minimum) (Nominal) (Maximum)					-1.000 0 1.000 (Minimum) (Nominal) (Maximum)					-1.500 0 1.500 (Minimum) (Nominal) (Maximum)				
Phase	BS Max Deviation %			Value	Phase	SS Max Deviation %			Value	Phase	LS Max Deviation %			Value
Master				0.8187	Master				1.667	Master				2.263
-1.600 0 1.600 (Minimum) (Nominal) (Maximum)					-2.500 0 2.500 (Minimum) (Nominal) (Maximum)					-3.500 0 3.500 (Minimum) (Nominal) (Maximum)				
Master: 10-Aug-2005 0:23														

High resolution Integrated Logging Tool-DTS Master Calibration											
Zero Measurement											
Phase	CNTC Background CPS			Value	Phase	CFTC Background CPS			Value		
Master				29.00	Master				31.22		
5.000 (Minimum)		29.00 (Nominal)		40.00 (Maximum)		5.000 (Minimum)		31.22 (Nominal)		40.00 (Maximum)	
Master: 8-Jun-2005 17:49											

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			5042	Master			2179	Master			2.314
5000 (Minimum) 6031 (Nominal) 7200 (Maximum)				2075 (Minimum) 2793 (Nominal) 3125 (Maximum)				2.120 (Minimum) 2.159 (Nominal) 2.540 (Maximum)			
Master: 8-Jun-2005 17:49											

Company: **Vulcan Minerals Inc.**

Schlumberger

Well: **Storm #1**

Field: **Undefined**

Province: **Newfoundland**

Location: **Stephenville**

High Resolution Laterolog Array