

Company: CHEVRON CANADA RESOURCES LTD.

Well: CHEVRON ET AL LIARD 3K-29

Field: LIARD

Territory: NORTHWEST TERRITORIES

Schlumberger

Company: CHEVRON CANADA RESOURCES LTD.

Well: CHEVRON ET AL LIARD 3K-29

Field: LIARD

Territory: NORTHWEST TERRITORIES

EMS MUD TEMPERATURE LOG

N.E.B. COPY

Territory: NORTHWEST TERRITORIES

Field: LIARD

Location: 3K-29

Well: CHEVRON ET AL LIARD 3K-29

Company: CHEVRON CANADA RESOURCES LTD.

LOCATION

LATITUDE: 60DEG 28MIN 42.4SEC NORTH

LONGITUDE: 123DEG 35MIN 4.3SEC WEST

Elev.: K.B. 417.3 m

G.L. 409.9 m

D.F. 417 m

Permanent Datum: GROUND LEVEL

Log Measured From: KELLY BUSHING

Elev.: 409.9 m

Drilling Measured From: KELLY BUSHING

7.4 m above Perm. Datum

API Serial No. SCL99

Logging Date	21-Feb-2004	Run Number	ONE
Depth Driller	3700 m	Depth Driller	3700 m
Schlumberger Depth	3692 m	Schlumberger Depth	3692 m
Bottom Log Interval	3662.7 m	Bottom Log Interval	3662.7 m
Top Log Interval	2912 m	Top Log Interval	2912 m
Casing Driller Size @ Depth	177.800 mm @ 2912 m	Casing Driller Size @ Depth	177.800 mm @ 2912 m
Casing Schlumberger	2912 m	Casing Schlumberger	2912 m
Bit Size	156.000 mm	Bit Size	156.000 mm
Type Fluid In Hole	CLAY-FREE POLYMER	Type Fluid In Hole	CLAY-FREE POLYMER
Density	1050 kg/m3	Density	1050 kg/m3
Fluid Loss	7 cm3	Fluid Loss	7 cm3
PH	9.5	PH	9.5
Source Of Sample	FLOWLINE	Source Of Sample	FLOWLINE
RM @ Measured Temperature	1.550 ohm.m @ 24 degC	RM @ Measured Temperature	1.550 ohm.m @ 24 degC
RMF @ Measured Temperature	1.211 ohm.m @ 21 degC	RMF @ Measured Temperature	1.211 ohm.m @ 21 degC
RMF @ Measured Temperature	1.331 ohm.m @ 23 degC	RMF @ Measured Temperature	1.331 ohm.m @ 23 degC
Source RMF	MUD PRESS	Source RMF	MUD PRESS
RM @ MRT	0.410 @ 149 0.300 @ 149	RM @ MRT	0.410 @ 149 0.300 @ 149
Maximum Recorded Temperatures	149 degC	Maximum Recorded Temperatures	149 degC
Circulation Stopped	21-Feb-2004	Circulation Stopped	21-Feb-2004
Logger On Bottom	22-Feb-2004	Logger On Bottom	22-Feb-2004
Unit Number	2028	Unit Number	2028
Location	GRANDE PRAIRIE	Location	GRANDE PRAIRIE
Recorded By	MICHEL LAPOINTE	Recorded By	MICHEL LAPOINTE
Witnessed By	BROCK LILLICO	Witnessed By	BROCK LILLICO

DEPTH SUMMARY LISTING

Date Created: 22-FEB-2004 22:49:40

Depth System Equipment

Depth Measuring Device	Tension Device	Logging Cable
Type: IDW-B	Type: CMTD-B/A	Type: 7-46P
Serial Number: 1775	Serial Number: 1716	Serial Number: 2022
Calibration Date: 11-APR-2003	Calibration Date: 11-FEB-2004	Length: 6324.91 M
Calibrator Serial Number: 4	Calibrator Serial Number: 78130	Conveyance Method: DrillPipe (TLC)
Calibration Cable Type: 7-46P	Calibration Gain: 0.90	Rig Type: LAND
Wheel Correction 1: -6	Calibration Offset: 507.00	
Wheel Correction 2: -5		

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: 1.10 M

Tool Zero Check At Surface: 0.00 M

Depth Control Remarks

- 1.
2. PRIMARY DEPTH MEASUREMENT = IDW
- 3.
4. LOGS CORRELATED TO MWD GR LOG
- 5.
- 6.

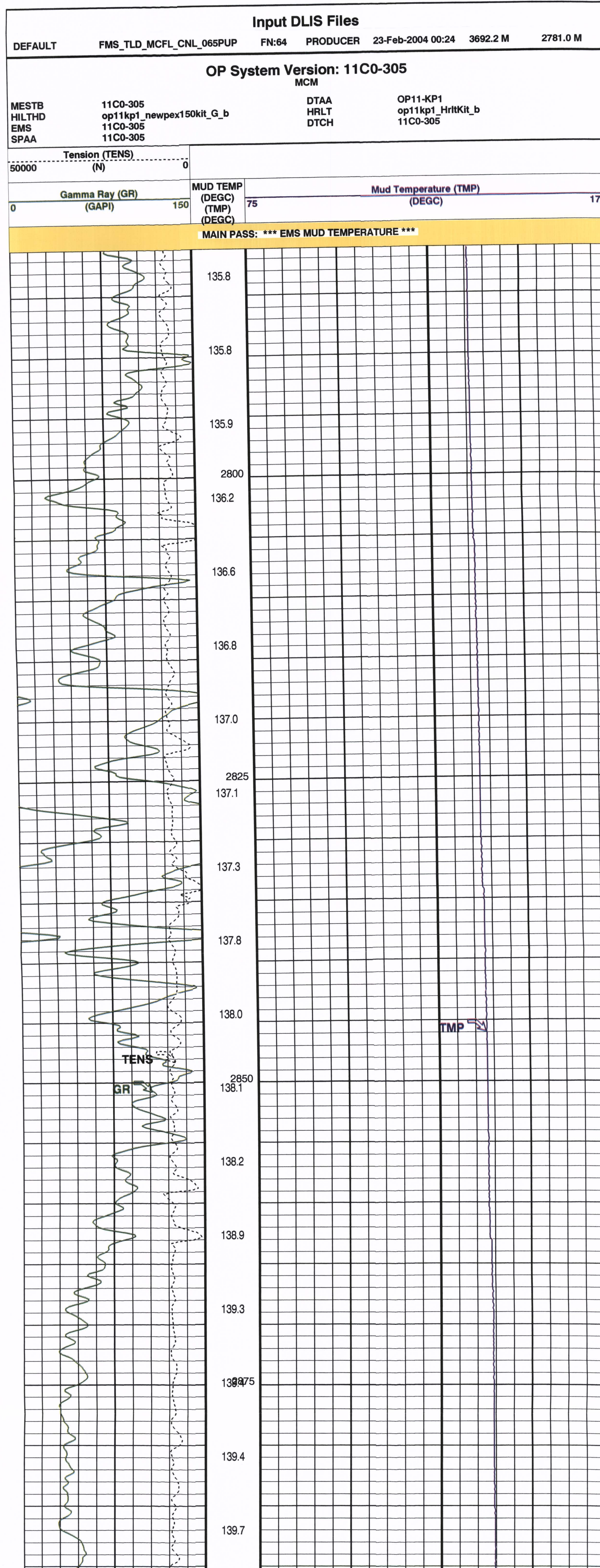
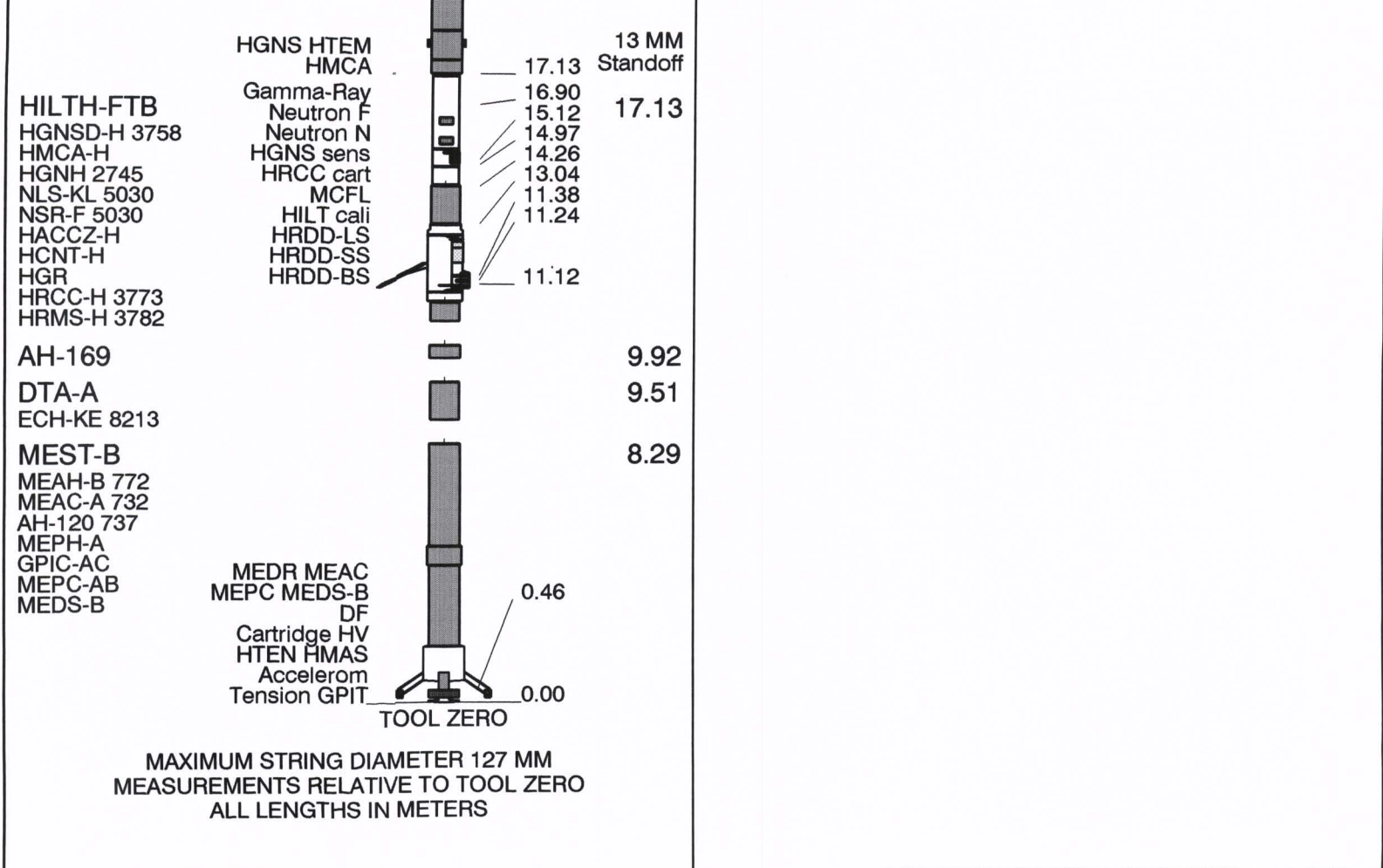
DISCLAIMER

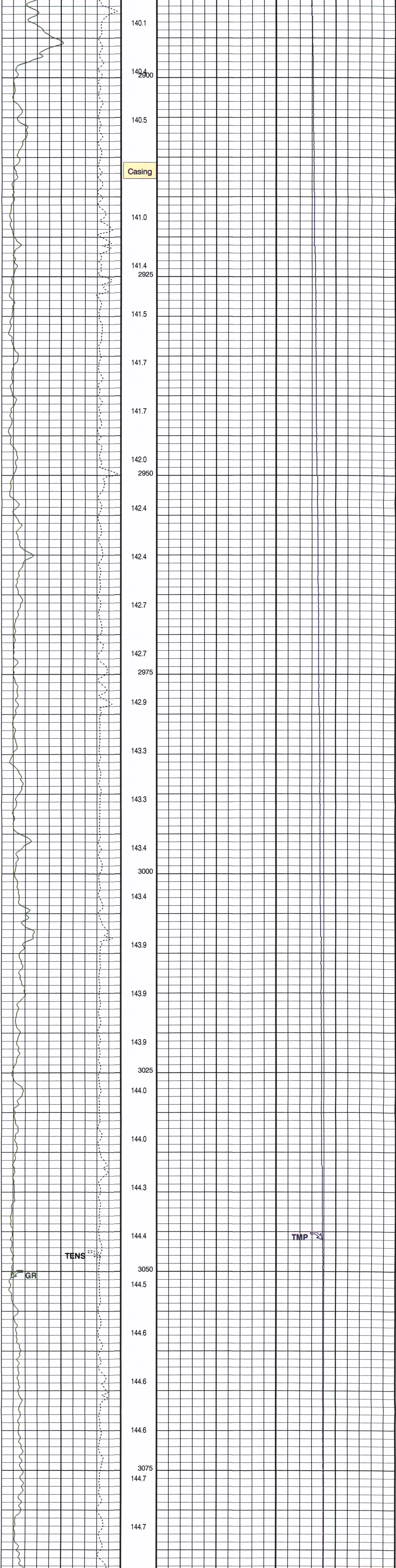
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OTHER SERVICES1	OTHER SERVICES2
OS1: FMS FORMATION IMAGER	OS1:
OS2: LITHODENSITY	OS2:
OS3: COMPENSATED NEUTRON	OS3:
OS4: HRLA LATEROLOG	OS4:
OS5: EMS TEMPERATURE	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Client requested that no toolturners be run on toolstring.	
Neutron run without bowspring eccentralizer due to hole size restriction.	
HRLA run with two 13 mm standoffs for centralization.	
Hole volume computed using C1 and C2 FMS calipers, as per client.	
No liner to be run. EMS ran only for temperature log.	
All tools run on first descent using TLC. Neutron and GR logged on wireline through casing on second descent.	
Tools not run below 3692 m.	
Logs correlated to Schlumberger MWD GR log, ran from Feb 4, 2004 to Feb 15, 2004.	
SP not presented in HRLA log as per client.	
RLA1 curve reads significantly lower than other HRLA curves.	
Repeat pass pulled below casing.	
PRINTS: 2 FIELD	
RIG: AKITA 48E	
CREW: R. LANTHIER, D. FOURNIER	
RUN 1	RUN 2
SERVICE ORDER #: 10600795	SERVICE ORDER #:
PROGRAM VERSION: 11C0-305	PROGRAM VERSION:
FLUID LEVEL:	FLUID LEVEL:
LOGGED INTERVAL	LOGGED INTERVAL
START	START
STOP	STOP

EQUIPMENT DESCRIPTION

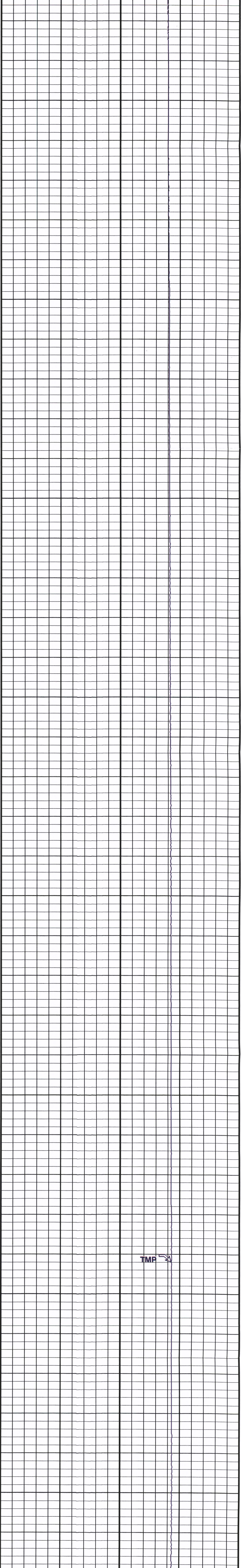
RUN 1	RUN 2
SURFACE EQUIPMENT	
WITM (DTS)-A	
GSR-U/Y	
NCT-B	
CNB-AB	
NCS-VB	
DOWNHOLE EQUIPMENT	
DWCH-A	
DWCH-A	
AH-107	
AH-169	
SPA-A	
SPA-A 494	
SAH-F	
SAH-F 718	
AH-199	
STCS-BA	
AH-197	
AH-107	
DTC-H	
EMS-B	
EMA-B 8097	
RES	
EMC-B 8035	
ECH-KH 8045	
EMM-B 8001	
AH-107	
HRLT-B	
HRUH-B 759	
HRUC-B 766	
HRLS-B 764	
HRLH-B 765	
HRLC-B 755	
AH-270	

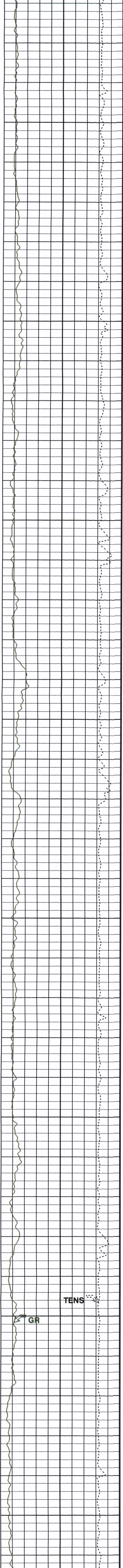




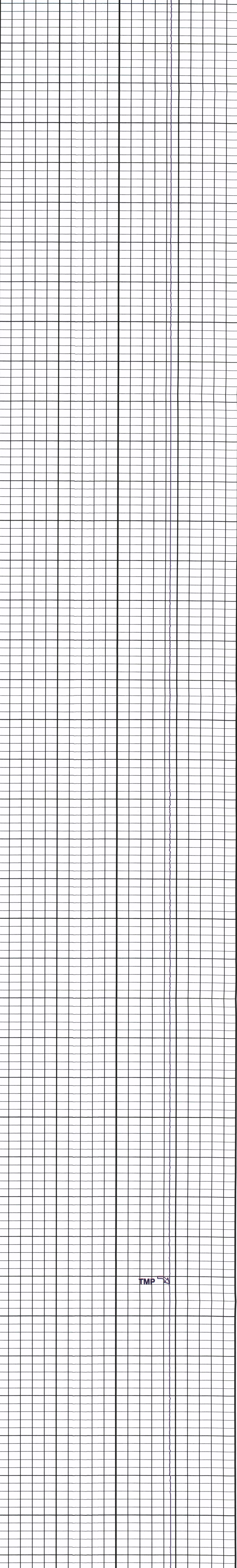


144.8
145.0
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145.0
145.0
145.0
145.2
145.25
145.5
145.5
145.6
145.6
3150
145.7
145.7
145.7
145.7
3175
145.9
146.0
146.0
146.2
3200
146.2
146.3
146.3
146.3
3225
146.3
146.4
146.5
146.5
TENS
3250
146.5
146.6
146.6
146.6
3275
146.7
146.7

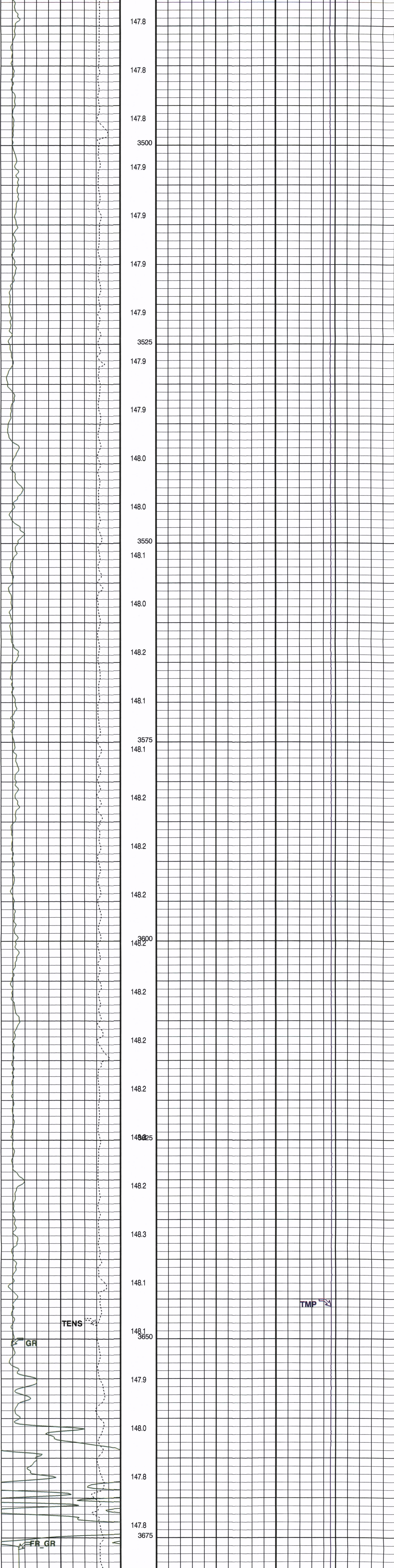


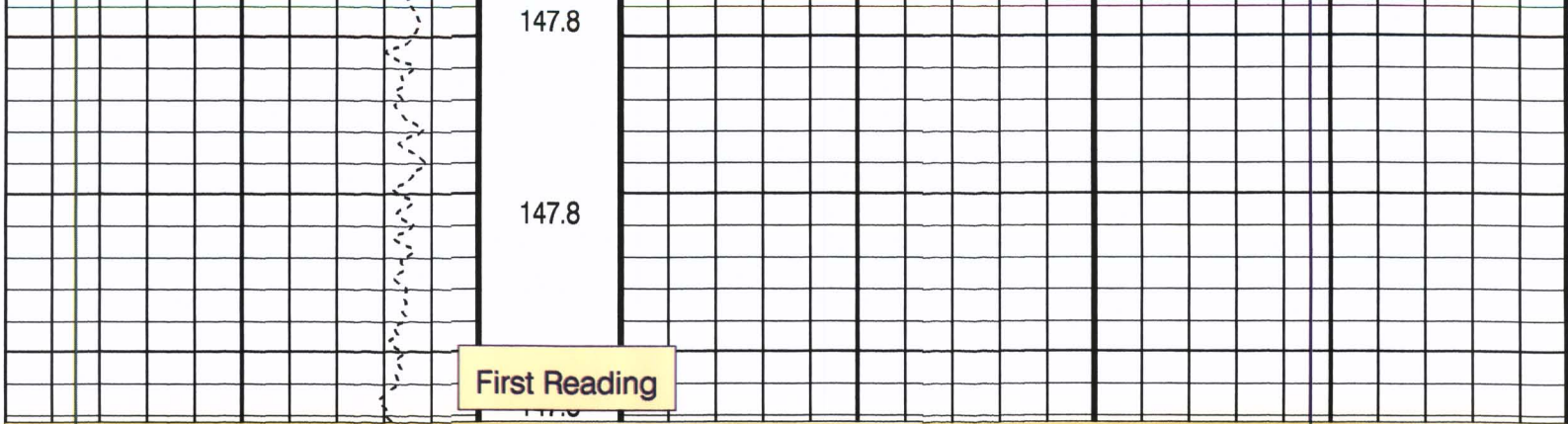


146.7
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3300
146.8
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146.8
3325
146.9
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147.0
147.1
147.0
147.0
147.0
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147.0
147.0
147.2
147.3
3400
147.3
147.3
147.3
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3425
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147.5
147.5
3450
147.5
147.6
147.5
147.8
3475
147.8



TMP





MAIN PASS: *** EMS MUD TEMPERATURE ***

Gamma Ray (GR) (GAPI)		MUD TEMP (DEGC) (TMP) (DEGC)	Mud Temperature (TMP) (DEGC)	
0	150	75	175	
Tension (TENS) (N)				
50000	0			

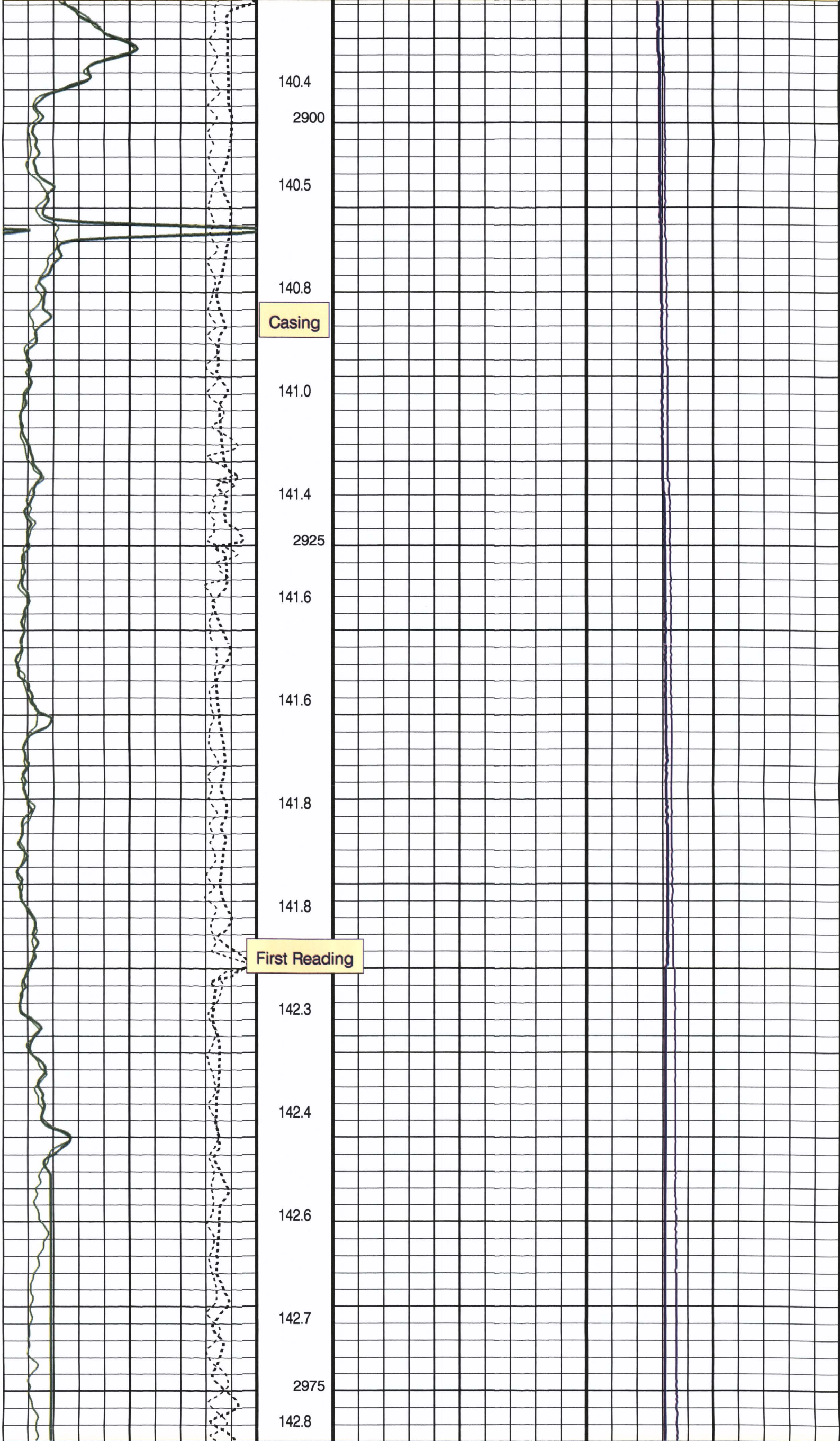
Parameters		
DLIS Name	Description	Value
DIR: Directional Survey Computation		
SPVD	TVD of Starting Point	0.000 m
TIMD	Along-hole depth of Tie-in Point	75.200 m
TIVD	TVD of Tie-in Point	75.200 m
Format: TEMP Vertical Scale: 1:240		Graphics File Created: 23-Feb-2004 01:24

OP System Version: 11C0-305						
MCM						
MESTB	11C0-305	DTAA	OP11-KP1			
HILTHD	op11kp1_newpex150kit_G_b	HRLT	op11kp1_HrltKit_b			
EMS	11C0-305	DTCH	11C0-305			
SPAA	11C0-305					
Input DLIS Files						
DEFAULT	FMS_TLD_MCFL_CNL_065PUP	FN:64	PRODUCER	23-Feb-2004 00:24	3692.2 M	2781.0 M

Input DLIS Files						
DEFAULT	FMS_TLD_MCFL_CNL_065PUP	FN:64	PRODUCER	23-Feb-2004 00:24	3692.2 M	2781.0 M
DEFAULT	FMS_TLD_MCFL_CNL_069PUP	FN:68	PRODUCER	23-Feb-2004 00:53	2978.4 M	2892.6 M
OP System Version: 11C0-305						
MCM						
MESTB	11C0-305		DTAA	OP11-KP1		
HILTHD	op11kp1_newpex150kit_G_b		HRLT	op11kp1_HrltKit_b		
EMS	11C0-305		DTCH	11C0-305		
SPAA	11C0-305					

TENS REP Curve (TENS REP) (N)		GR REP Curve (GR REP) (GAPI)		MUD TEMP (DEGC) (TMP) (DEGC)	TMP REP Curve (TMP REP) (DEGC)	
50000	0	0	150	75	175	

REPEAT ANALYSIS: *** EMS MUD TEMPERATURE ***



REPEAT ANALYSIS: *** EMS MUD TEMPERATURE ***

GR REP Curve (GR REP) (GAPI)		MUD TEMP (DEGC) (TMP) (DEGC)	TMP REP Curve (TMP REP) (DEGC)	
0	150	75	175	
TENS REP Curve (TENS REP) (N)				
50000	0			

Parameters		
DLIS Name	Description	Value
DIR: Directional Survey Computation		
SPVD	TVD of Starting Point	0.000 m
TIMD	Along-hole depth of Tie-in Point	75.200 m
TIVD	TVD of Tie-in Point	75.200 m
Format: TEMP_VERTICAL Vertical Scale: 1:240		Graphics File Created: 23-Feb-2004 01:14

OP System Version: 11C0-305						
MCM						
MESTB	11C0-305	DTAA	OP11-KP1			
HILTHD	op11kp1_newpex150kit_G_b	HRLT	op11kp1_HrltKit_b			
EMS	11C0-305	DTCH	11C0-305			
SPAA	11C0-305					
Input DLIS Files						
DEFAULT	FMS_TLD_MCFL_CNL_065PUP	FN:64	PRODUCER	23-Feb-2004 00:24	3692.2 M	2781.0 M
DEFAULT	FMS_TLD_MCFL_CNL_069PUP	FN:68	PRODUCER	23-Feb-2004 00:53	2978.4 M	2892.6 M

Calibration and Check Summary							
Measurement	Nominal	Master	Before	After	Change	Limit	Units
Micro Electrical Scanner - B (Slim) WellSite Calibration - Caliper Calibration							
Before: 17-Feb-2004 15:15							
Caliper 1 Zero Measurement	203.2	N/A	205.8	N/A	N/A	N/A	MM
Caliper 2 Zero Measurement	203.2	N/A	217.4	N/A	N/A	N/A	MM
Caliper 1 Plus Measurement	304.8	N/A	308.9	N/A	N/A	N/A	MM
Caliper 2 Plus Measurement	304.8	N/A	318.2	N/A	N/A	N/A	MM
Micro Electrical Scanner - B (Slim) WellSite Calibration - CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY							
Before: 22-Feb-2004 15:35							
TEMPERATURE REFERENCE :	N/A	N/A	20	N/A	N/A	N/A	DEGC

YEAR OF CALIBRATION :	N/A	N/A	2	N/A	N/A	N/A	N/A
MONTH OF CALIBRATION :	N/A	N/A	1	N/A	N/A	N/A	N/A
SERIAL NUMBER :	N/A	N/A	470	N/A	N/A	N/A	N/A
Micro Electrical Scanner - B (Slim) Wellsite Calibration - CROUZET MAGNETOMETER PROM HAS BEEN READ CORRECTLY							
Before: 22-Feb-2004 15:35							
TEMPERATURE REFERENCE :	N/A	N/A	23	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	98	N/A	N/A	N/A	N/A
MONTH OF CALIBRATION :	N/A	N/A	10	N/A	N/A	N/A	N/A
SERIAL NUMBER :	N/A	N/A	275	N/A	N/A	N/A	N/A
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Stab Measurement Summary							
Before: 20-Feb-2004 14:18							
BS Window Ratio	0.7664	N/A	0.7637	N/A	N/A	N/A	
BS Window Sum	28520	N/A	28520	N/A	N/A	N/A	CPS
SS Window Ratio	0.4825	N/A	0.4805	N/A	N/A	N/A	
SS Window Sum	12620	N/A	12600	N/A	N/A	N/A	CPS
LS Window Ratio	0.3047	N/A	0.3027	N/A	N/A	N/A	
LS Window Sum	1334	N/A	1323	N/A	N/A	N/A	CPS
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Photo-multiplier High Voltages Calibrations							
Before: 20-Feb-2004 14:18							
BS PM High Voltage (Command)	1421	N/A	1447	N/A	N/A	N/A	V
SS PM High Voltage (Command)	1394	N/A	1404	N/A	N/A	N/A	V
LS PM High Voltage (Command)	1361	N/A	1359	N/A	N/A	N/A	V
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Crystal Quality Resolutions Calibration							
Before: 20-Feb-2004 14:18							
BS Crystal Resolution	10.63	N/A	10.62	N/A	N/A	N/A	%
SS Crystal Resolution	9.427	N/A	9.446	N/A	N/A	N/A	%
LS Crystal Resolution	9.081	N/A	9.019	N/A	N/A	N/A	%
High resolution Integrated Logging Tool-DTS Wellsite Calibration - MCFL Calibration							
Before: 20-Feb-2004 14:04							
Raw B0 Resistivity	3875	N/A	3828	N/A	N/A	N/A	OHMM
Raw B1 Resistivity	3830	N/A	3774	N/A	N/A	N/A	OHMM
Raw B2 Resistivity	3830	N/A	3784	N/A	N/A	N/A	OHMM
High resolution Integrated Logging Tool-DTS Wellsite Calibration - HILT Caliper Calibration							
Before: 20-Feb-2004 14:00							
HILT Caliper Zero Measurement	203.2	N/A	199.1	N/A	N/A	N/A	MM
HILT Caliper Plus Measurement	304.8	N/A	306.7	N/A	N/A	N/A	MM
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Detector Calibration							
Before: 20-Feb-2004 14:09							
Gamma Ray Background	30.00	N/A	66.14	N/A	N/A	N/A	GAPI
Gamma Ray (Jig - Bkg)	156.3	N/A	156.3	N/A	N/A	14.21	GAPI
Gamma Ray (Calibrated)	167.0	N/A	167.0	N/A	N/A	15.00	GAPI
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Accelerometer Calibration							
Before: 22-Feb-2004 7:44							
Z-Axis Acceleration	9.810	N/A	9.825	N/A	N/A	N/A	M/S2
High resolution Integrated Logging Tool-DTS Master Calibration - Inversion results							
Master: 2-Feb-2004 21:43							
Rho Aluminum	2596	2602	--	--	--	--	K/M3
Rho Magnesium	1686	1687	--	--	--	--	K/M3
Pe Aluminum	2.570	2.545	--	--	--	--	
Pe Magnesium	2.650	2.618	--	--	--	--	
High resolution Integrated Logging Tool-DTS Master Calibration - Deviation Summary							
Master: 2-Feb-2004 21:43							
BS Average Deviation	0	0.3931	--	--	--	--	%
BS Max Deviation	0	1.134	--	--	--	--	%
SS Average Deviation	0	0.4284	--	--	--	--	%
SS Max Deviation	0	1.624	--	--	--	--	%
LS Average Deviation	0	0.8353	--	--	--	--	%
LS Max Deviation	0	1.817	--	--	--	--	%
High resolution Integrated Logging Tool-DTS Master Calibration - Zero Measurement							
Master: 18-Feb-2004 19:21							
CNTC Background	26.80	26.80	--	--	--	--	CPS
CFTC Background	28.50	28.50	--	--	--	--	CPS
High resolution Integrated Logging Tool-DTS Master Calibration - Tank Measurement							
Master: 18-Feb-2004 19:21							
Thermal Near Corr. (Tank)	6031	5189	--	--	--	--	CPS
Thermal Far Corr. (Tank)	2793	2196	--	--	--	--	CPS
CNTC/CFTC (Tank)	2.159	2.363	--	--	--	--	
High Resolution Laterolog Array - B Wellsite Calibration - HRLT M01							
Before: 22-Feb-2004 15:35							
HRLT M0-M1 Voltage Plus - 0	0	N/A	-317.5	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus - 1	0	N/A	-327.8	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus - 2	0	N/A	-328.6	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus - 3	0	N/A	-332.3	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus - 4	0	N/A	-322.7	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus - 5	0	N/A	-324.6	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus - 6	0	N/A	318.4	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: 22-Feb-2004 15:35							
HRLT M1-M2 Voltage Plus - 0	0	N/A	1751	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus - 1	0	N/A	1807	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus - 2	0	N/A	1808	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus - 3	0	N/A	1829	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus - 4	0	N/A	1777	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus - 5	0	N/A	1789	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus - 6	0	N/A	-1763	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: 22-Feb-2004 15:35							
HRLT M2-M3 Voltage Plus - 0	0	N/A	1741	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 1	0	N/A	1812	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 2	0	N/A	1812	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 3	0	N/A	1836	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 4	0	N/A	1778	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 5	0	N/A	1790	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 6	0	N/A	-1757	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: 22-Feb-2004 15:35							
HRLT A3-A4 Voltage Plus - 0	0	N/A	68660	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 1	0	N/A	71390	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 2	0	N/A	71660	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 3	0	N/A	72830	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 4	0	N/A	70460	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 5	0	N/A	70950	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 6	0	N/A	-68200	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: 22-Feb-2004 15:35							
HRLT A4-A5 Voltage Plus - 0	0	N/A	68600	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 1	0	N/A	70950	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 2	0	N/A	71300	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 3	0	N/A	72580	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 4	0	N/A	70350	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 5	0	N/A	70880	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 6	0	N/A	-67740	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: 22-Feb-2004 15:35							
HRLT A5-A6 Voltage Plus - 0	0	N/A	68740	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 1	0	N/A	71380	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 2	0	N/A	71660	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 3	0	N/A	72870	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 4	0	N/A	70520	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 5	0	N/A	71020	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 6	0	N/A	-68190	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: 22-Feb-2004 15:35							
HRLT Torpedo-M0 Voltage - 0	0	N/A	-67950	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 1	0	N/A	-70990	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 2	0	N/A	-71280	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 3	0	N/A	-72490	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 4	0	N/A	-70180	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 5	0	N/A	-70660	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 6	0	N/A	67790	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: 22-Feb-2004 15:35							
HRLT Bridle#9-M0 Voltage - 0	0	N/A	-67960	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 1	0	N/A	-71010	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 2	0	N/A	-71290	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 3	0	N/A	-72520	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 4	0	N/A	-70190	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 5	0	N/A	-70670	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 6	0	N/A	67800	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: 22-Feb-2004 15:35							
HRLT Source Current Plus - 0	0	N/A	283.3	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: 22-Feb-2004 15:35							
HRLT Vertical Voltage PI - 0	0	N/A	-317.9	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 1	0	N/A	-320.7	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 2	0	N/A	-320.7	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 3	0	N/A	-322.6	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 4	0	N/A	-310.4	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 5	0	N/A	-327.4	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 6	0	N/A	324.3	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 7	0	N/A	-322.7	N/A	N/A	9.681	UV
The GLS-VJ source activity is acceptable.							
The HGNS Neutron Master Calibration was done with the following parameters :							
NCT-B Water Temperature	17.7	DEGC.					
Thermal Housing Size	85.700	MM.					
NSR-F serial number	5030						

3	Before		72580	70000	82360	60900
4	Before		70350	70000	82360	60900
5	Before		70880	70000	82360	60900
6	Before		-67740	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
(Minimum) (Nominal) (Maximum)						
Before: 22-Feb-2004 15:35						

High Resolution Laterolog Array - B Wellsite Calibration						
HRLT V56						
Idx	Phase	HRLT A5-A6 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68740	70000	82360	60900
1	Before		71380	70000	82360	60900
2	Before		71660	70000	82360	60900
3	Before		72870	70000	82360	60900
4	Before		70520	70000	82360	60900
5	Before		71020	70000	82360	60900
6	Before		-68190	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
(Minimum) (Nominal) (Maximum)						
Before: 22-Feb-2004 15:35						

High Resolution Laterolog Array - B Wellsite Calibration						
HRLT VTP						
Idx	Phase	HRLT Torpedo-M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-67950	-70000	-60900	-82360
1	Before		-70990	-70000	-60900	-82360
2	Before		-71280	-70000	-60900	-82360
3	Before		-72490	-70000	-60900	-82360
4	Before		-70180	-70000	-60900	-82360
5	Before		-70660	-70000	-60900	-82360
6	Before		67790	70000	82360	60900
7	Before		-70000	-70000	-60900	-82360
(Minimum) (Nominal) (Maximum)						
Before: 22-Feb-2004 15:35						

High Resolution Laterolog Array - B Wellsite Calibration						
HRLT VBD						
Idx	Phase	HRLT Bridle#9-M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-67960	-70000	-60900	-82360
1	Before		-71010	-70000	-60900	-82360
2	Before		-71290	-70000	-60900	-82360
3	Before		-72520	-70000	-60900	-82360
4	Before		-70190	-70000	-60900	-82360
5	Before		-70670	-70000	-60900	-82360
6	Before		67800	70000	82360	60900
7	Before		-70000	-70000	-60900	-82360
(Minimum) (Nominal) (Maximum)						
Before: 22-Feb-2004 15:35						

High Resolution Laterolog Array - B Wellsite Calibration						
HRLT ISO						
Idx	Phase	HRLT Source Current Plus UA	Value	Nominal	Maximum	Minimum
0	Before		283.3	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: 22-Feb-2004 15:35						

High Resolution Laterolog Array - B Wellsite Calibration						
HRLT MV						
Idx	Phase	HRLT Vertical Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-317.9	-322.7	-280.7	-379.7
1	Before		-320.7	-322.7	-280.7	-379.7
2	Before		-320.7	-322.7	-280.7	-379.7
3	Before		-322.6	-322.7	-280.7	-379.7
4	Before		-310.4	-322.7	-280.7	-379.7
5	Before		-327.4	-322.7	-280.7	-379.7
6	Before		324.3	322.7	379.7	280.7
7	Before		-322.7	-322.7	-280.7	-379.7
(Minimum) (Nominal) (Maximum)						
Before: 22-Feb-2004 15:35						

Company: CHEVRON CANADA RESOURCES LTD.

Schlumberger

Well: CHEVRON ET AL LIARD 3K-29

Field: LIARD

Territory: NORTHWEST TERRITORIES