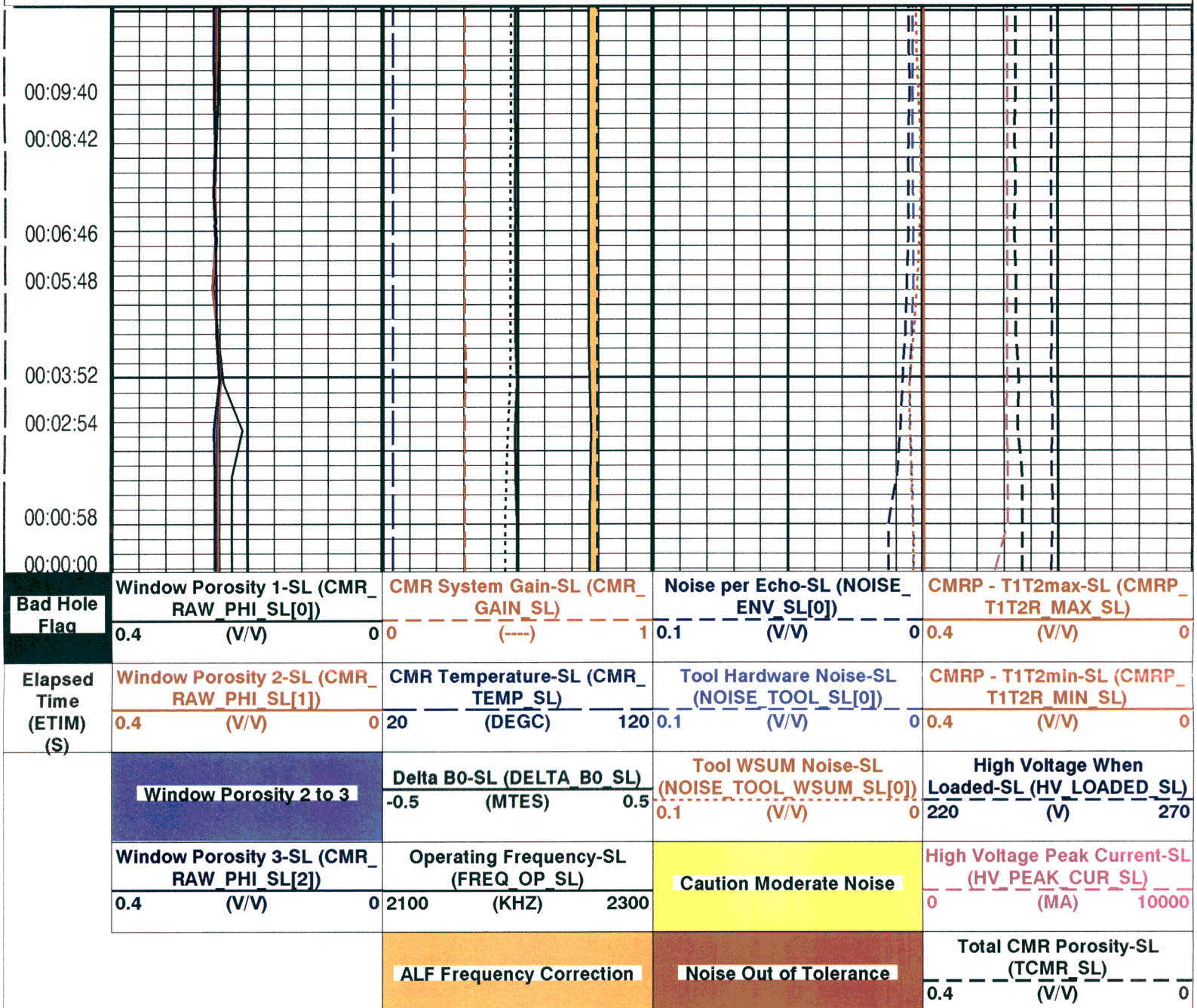




Delta B0 Caution

Programmed Frequency-SL
(FREQ WO ALF SL)
2100 (KHZ) 2300

Signal Phase-SL (SPHASE_
SL[0])
-180 (DEG) 180

HV Loaded Below Limit

CMRP max to min

PIP SUMMARY

Time Mark Every 60 S

Format: CMRT_LQC_STATION_LOG

Vertical Scale: 1" per 180S

Graphics File Created: 18-Mar-2008 23:43

OP System Version: 15C0-309
MCM

HILTH-FTB
PPC1-B
DTC-H

SRPC-3402-Q3_2007
15C0-309
15C0-309

CMRT-B
SGT-N

15C0-309
15C0-309

Output DLIS Files

DEFAULT
BACKUP

TLD_MCFL_CNL_CMR_086LTP
TLD_MCFL_CNL_CMR_086LTP

FN:145
FN:146

PRODUCER
PRODUCER

18-Mar-2008 23:43
18-Mar-2008 23:43

Company: HUSKY OIL OPERATIONS LIMITED

Well: HUSKY et al KEELE RIVER L-52

Output DLIS Files

DEFAULT
BACKUP

TLD_MCFL_CNL_CMR_084LTP
TLD_MCFL_CNL_CMR_084LTP

FN:143
FN:144

PRODUCER
PRODUCER

18-Mar-2008 23:15
18-Mar-2008 23:15

462.3 M
462.3 M

3.8 M
3.8 M

CMR STATION LOG REPORT

DEPTH(M): 454.997

PARAMETER SUMMARY

Tool Type: CMR-Plus
Kit Number: 28
Mode: Long T1 MRF-DE Station Log

Cart. Number: 202
DHC Version : 16.4

Sonde Number: 182
DSP Version : 13
LFST Freq(khz) : 2180

Tuning Mode: ALF
SP Version : 9042001
LFST Temp(degc) : 28.98

Log Direction: Station
Echo Spacing(us):
Polarization Time(sec):
Number of Echoes:
Repetition:
Regularization:

Polarization Correction: Off
(200 2000 4000 200 200 8000)
(13 3 3 3 1 3)
(5000 1800 1800 3000 1800 900)
(1 1 1 1 1 1)
(1 1 1 1 1 1)

EPM: No

Duty Cycle (highest): 0.0323

For Water:
For Oil:

Number of Components: 30
Number of Components: 14

T2 Min(msec): 0.3
T2 Min(msec): 14

T2 Max(msec): 3000
T2 Max(msec): 1590

T2 Cutoff(msec): 33
Multiple T2 Cutoffs(msec):
Update Int.(sec): 58

Downhole Stacking: 0
(0.3 1 3 10 33 100 300 1000 3000)
Oil Diffusion/T2 Factor: 1.000

Uphole Stacking: 1

First Echo Used: No
T1 of Gas (sec): 4.000
Gas Diff(e-4cm2/S): 8.000

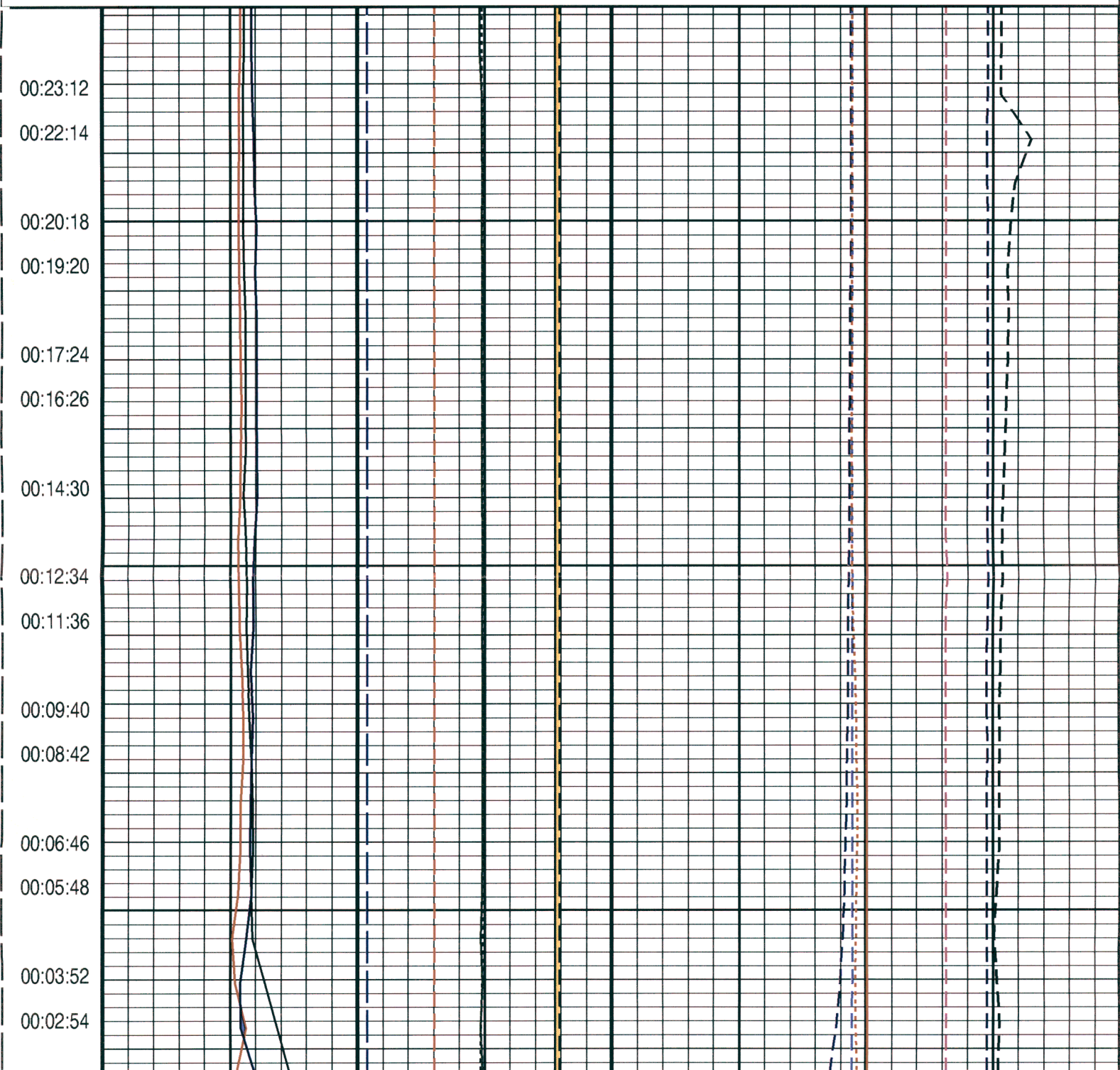
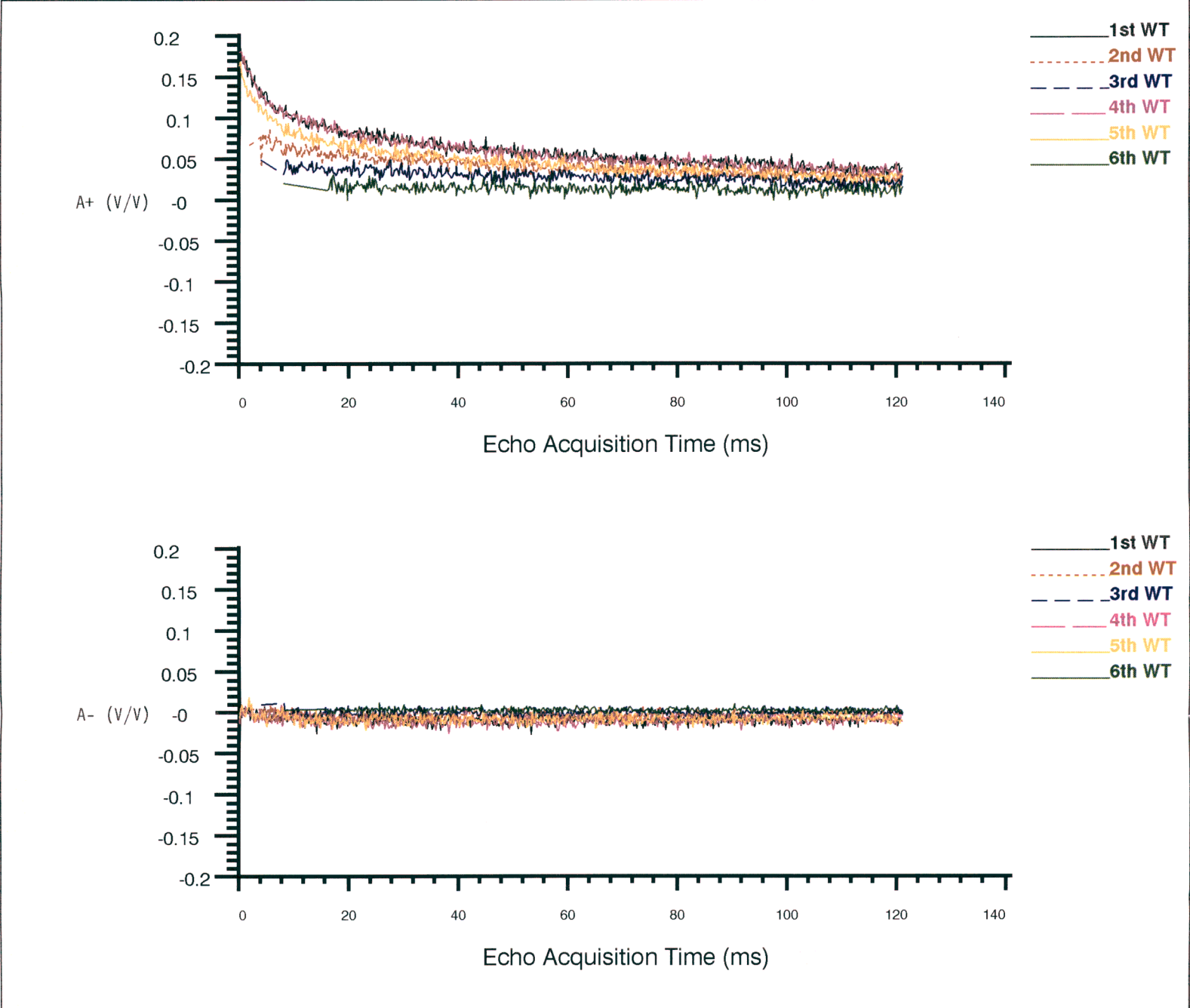
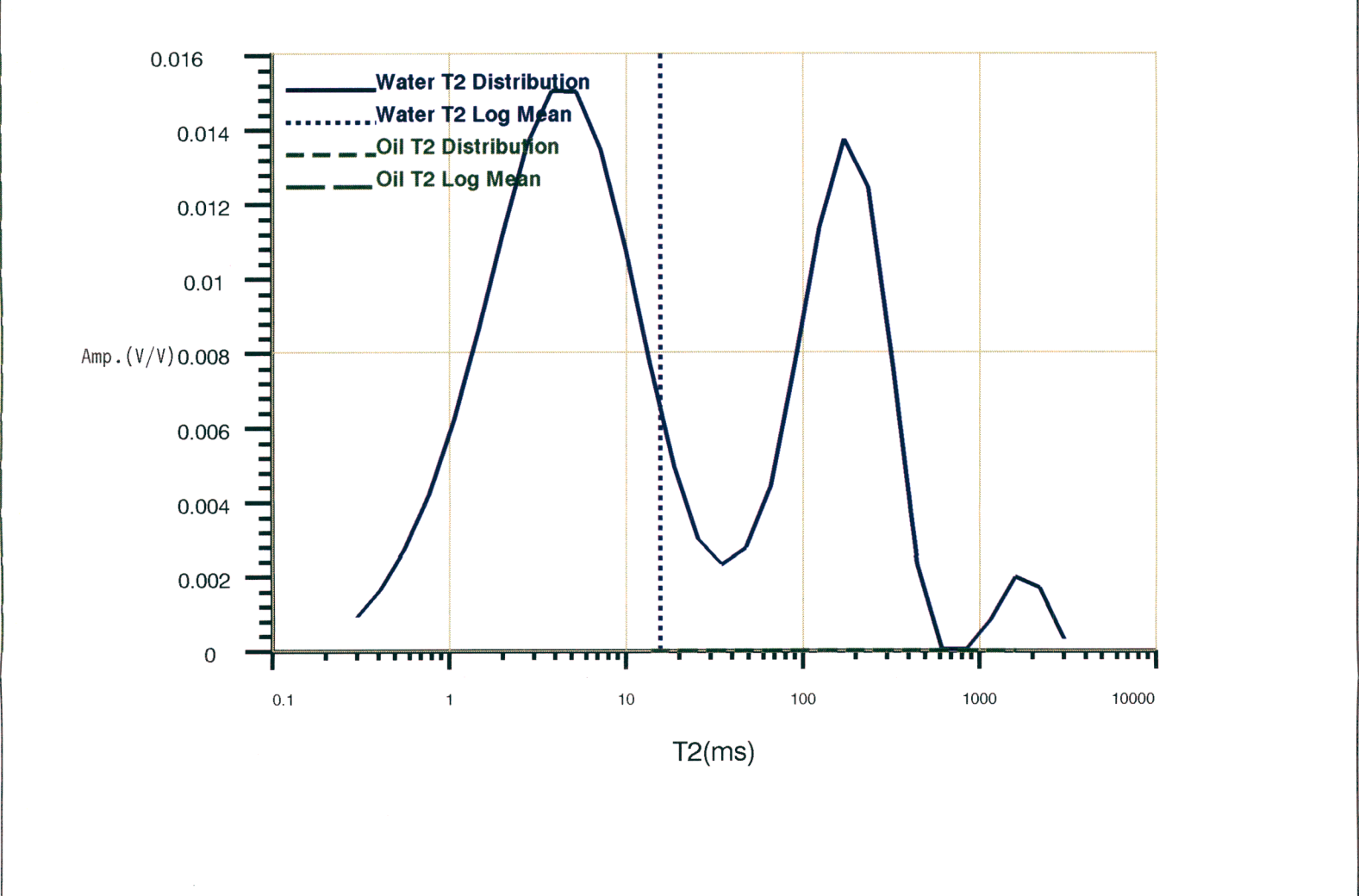
MRF ANALYSIS RESULT

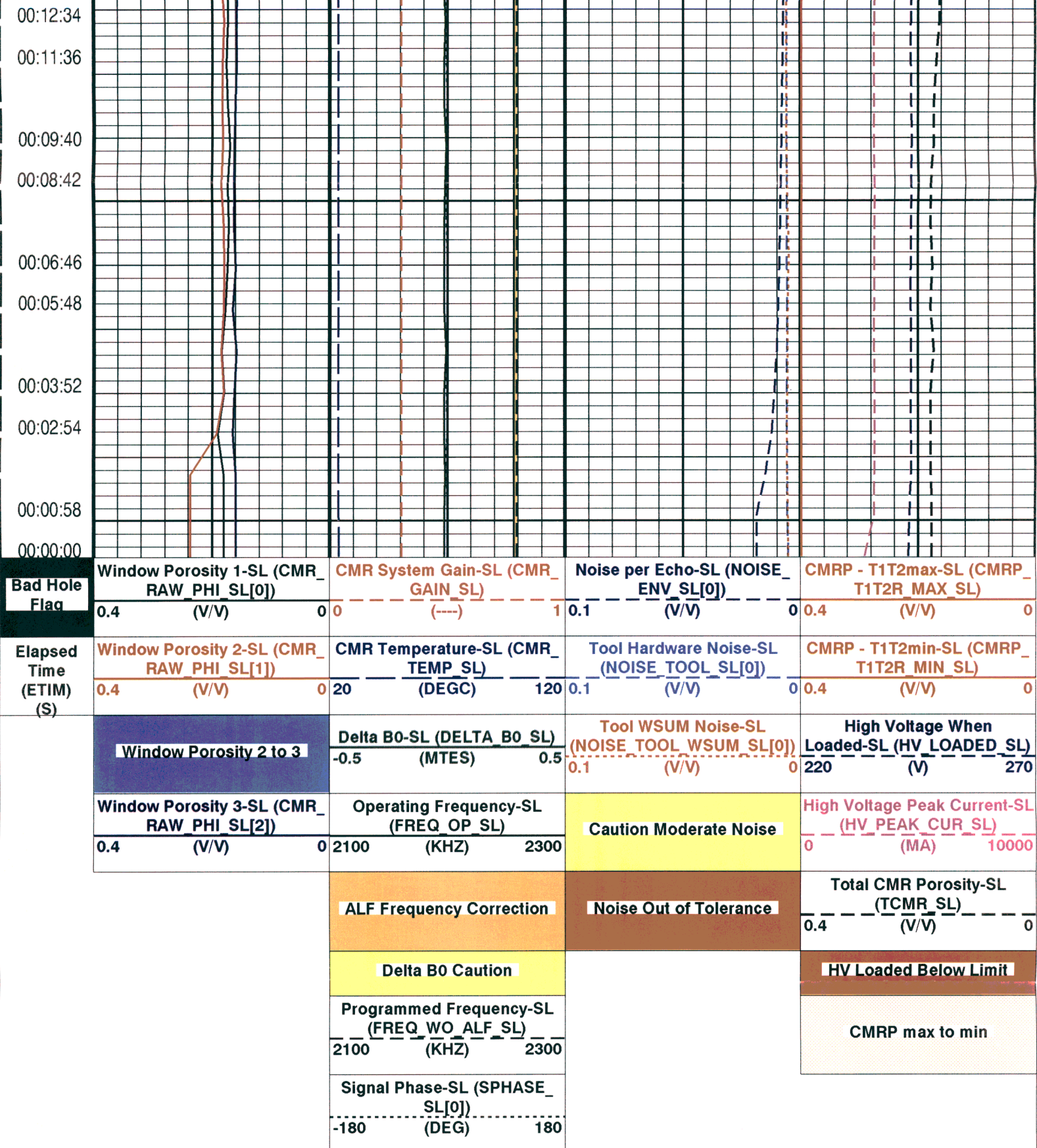
Water Volume(V/V): 0.188
Water Saturation(V/V): 1.000
Water T2LogMean(ms): 15.810
Free Water(V/V): 0.069
Temperature(degc): 23.393
Signal to Noise Ratio:
Fluid Model:Water,Oil
Fluid Model:Water

Oil Volume(V/V): 0.000
Oil Saturation(V/V): 0.000
Bound Water(V/V): 0.119
SDR Perm. (mD): 1.239e+000
R Square Values of the Fits:
R Square Values of The Fits:

Gas Volume(V/V): 0.000
Gas Saturation(V/V): 0.000
Computed T1/T2: 2.535
Tmr/Cts Perm. (mD): 4.110e+000
(0.978 0.000 0.000 0.965 0.995 0.000 , 0.889)
(0.978 0.000 0.000 0.965 0.995 0.000 , 0.888)

OBMF Volume(V/V): 0.000
OBMF Saturation(V/V): 0.000
TCMR Porosity(V/V): 0.188

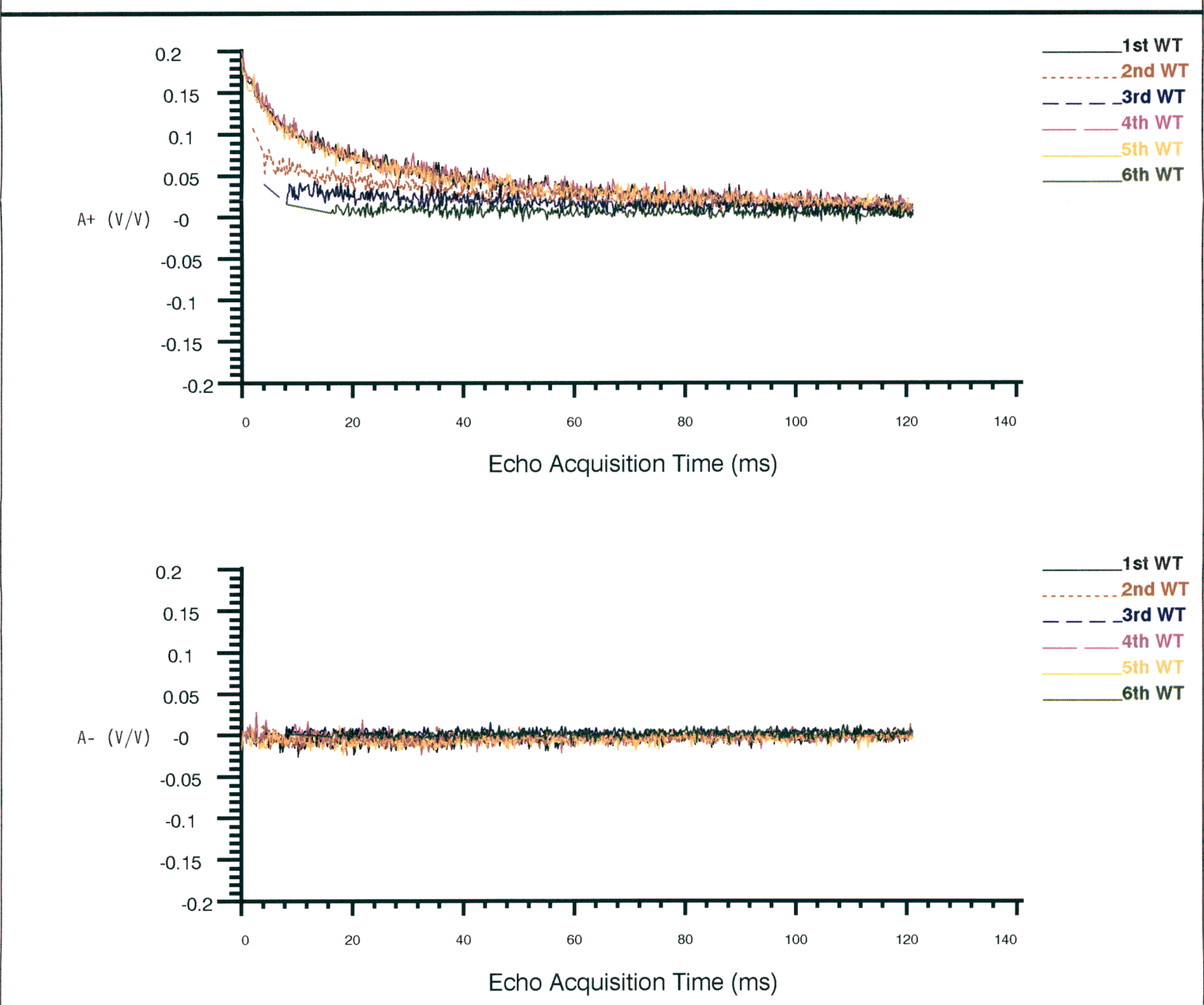
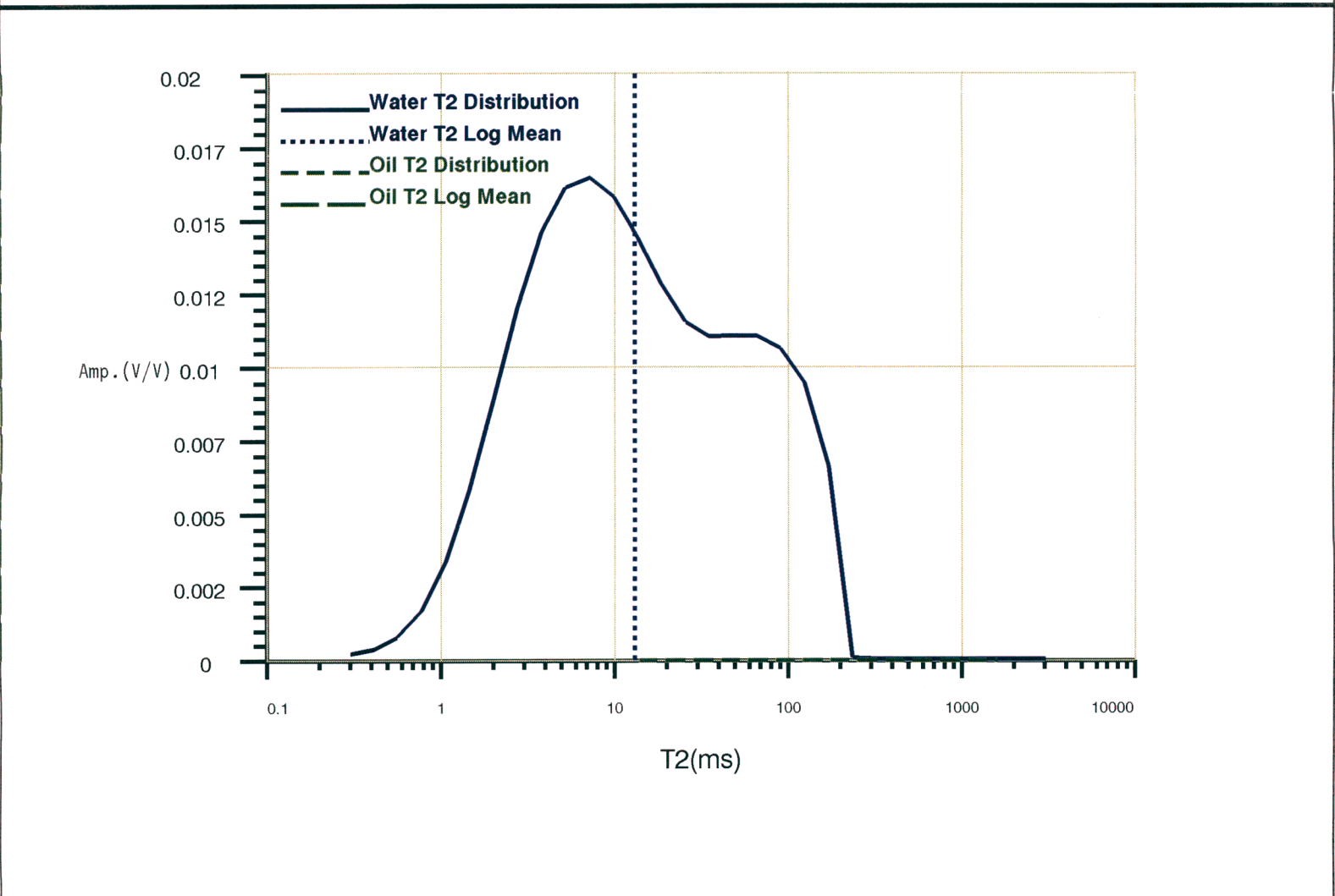


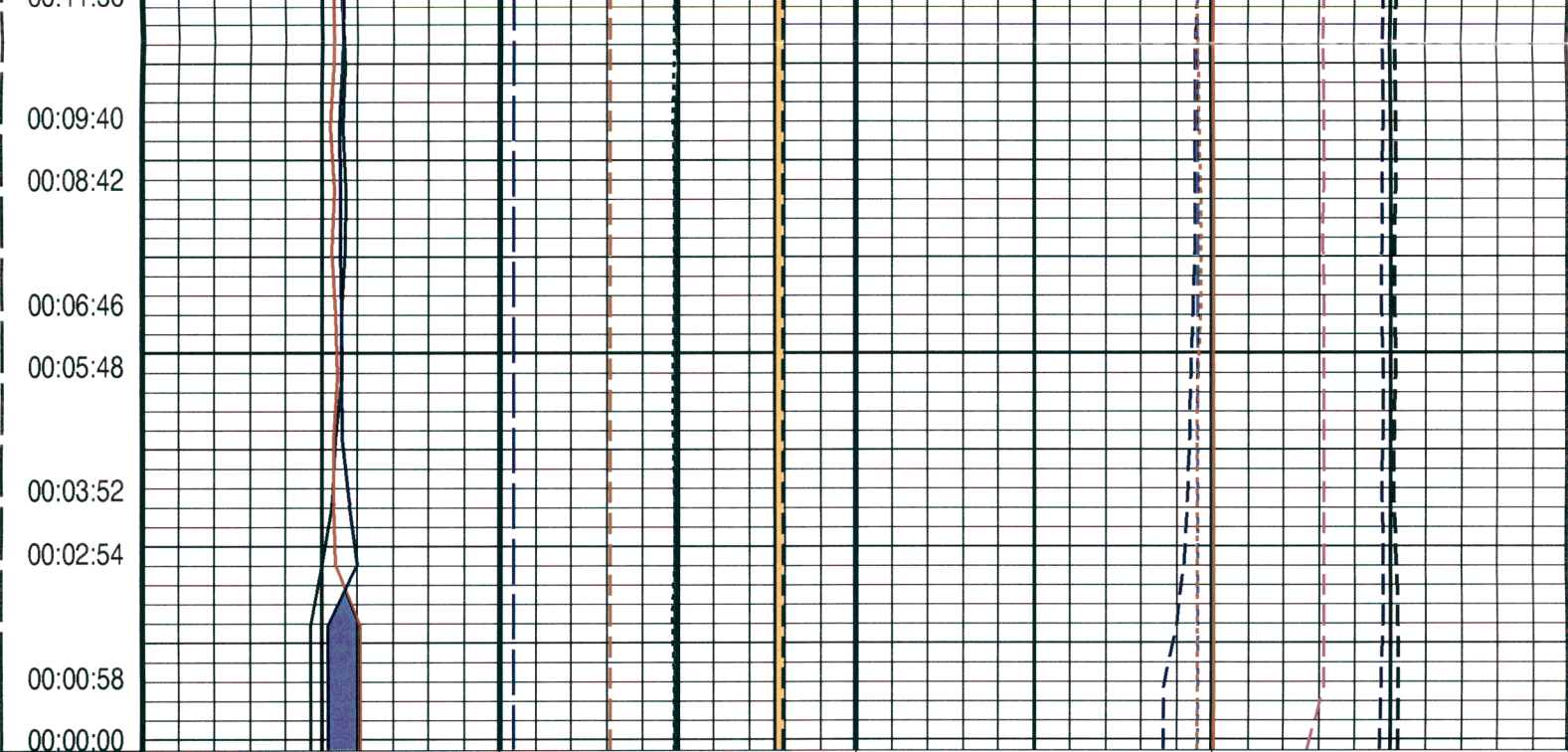


PIP SUMMARY			
Time Mark Every 60 S			
Format: CMRT_LQC_STATION_LOG		Vertical Scale: 1" per 180S	Graphics File Created: 19-Mar-2008 00:03
OP System Version: 15C0-309			
MCM			
HILTH-FTB	SRPC-3402-Q3_2007	CMRT-B	15C0-309
PPC1-B	15C0-309	SGT-N	15C0-309
DTC-H	15C0-309		
Output DLIS Files			
DEFAULT	TLD_MCFL_CNL_CMR_087LTP	FN:147	PRODUCER 19-Mar-2008 00:03
BACKUP	TLD_MCFL_CNL_CMR_087LTP	FN:148	PRODUCER 19-Mar-2008 00:03

Company: HUSKY OIL OPERATIONS LIMITED				Well: HUSKY et al KEELE RIVER L-52		
Output DLIS Files						
DEFAULT	TLD_MCFL_CNL_CMR_083LTP	FN:141	PRODUCER	18-Mar-2008 23:01	466.3 M	1.9 M
BACKUP	TLD_MCFL_CNL_CMR_083LTP	FN:142	PRODUCER	18-Mar-2008 23:01	466.3 M	1.9 M

CMR STATION LOG REPORT		DEPTH(M): 458.989	
PARAMETER SUMMARY			
Tool Type: CMR-Plus	Cart. Number: 202	Sonde Number: 182	Tuning Mode: ALF
Kit Number: 28	DHC Version : 16.4	DSP Version : 13	SP Version : 9042001
Mode: Long T1 MRF-DE Station Log		LFST Freq(khz) : 2180	LFST Temp(deg) : 28.98
Log Direction: Station	Polarization Correction: Off	EPM: No	
Echo Spacing(us):	(200 2000 4000 200 200 8000)		
Polarization Time(sec):	(13 3 3 3 1 3)		
Number of Echoes:	(5000 1800 1800 3000 1800 900)		
Repetition:	(1 1 1 1 1 1)	Duty Cycle (highest): 0.0323	
Regularization:	(1 1 1 1 1 1)		
For Water:	Number of Components: 30	T2 Min(msec): 0.3	T2 Max(msec): 3000
For Oil:	Number of Components: 14	T2 Min(msec): 14	T2 Max(msec): 1590
T2 Cutoff(msec): 33	Downhole Stacking: 0	Uphole Stacking: 1	First Echo Used: No
Multiple T2 Cutoffs(msec):	(0.3 1 3 10 33 100 300 1000 3000)		T1 of Gas (sec): 4.000
Update Int.(sec): 58	Oil Diffusion/T2 Factor: 1.000		Gas Diff(e-4cm2/S): 8.000
MRF ANALYSIS RESULT			
Water Volume(V/V): 0.194	Oil Volume(V/V): 0.000	Gas Volume(V/V): 0.000	OBMF Volume(V/V): 0.000
Water Saturation(V/V): 1.000	Oil Saturation(V/V): 0.000	Gas Saturation(V/V): 0.000	OBMF Saturation(V/V): 0.000
Water T2LogMean(ms): 13.275			TCMR Porosity(V/V): 0.194
Free Water(V/V): 0.057	Bound Water(V/V): 0.137	Computed T1/T2: 0.835	
Temperature(deg): 23.448	SDR Perm. (mD): 9.981e-001	Tmr/Cts Perm. (mD): 2.471e+000	
Signal to Noise Ratio:	(40.4 22.1 10.4 38.7 30.2 3.4)		
Fluid Model:Water,Oil	R Square Values of the Fits:	(0.995 0.358 0.000 0.993 0.989 0.000 , 0.872)	
Fluid Model:Water	R Square Values of The Fits:	(0.995 0.358 0.000 0.993 0.989 0.000 , 0.872)	



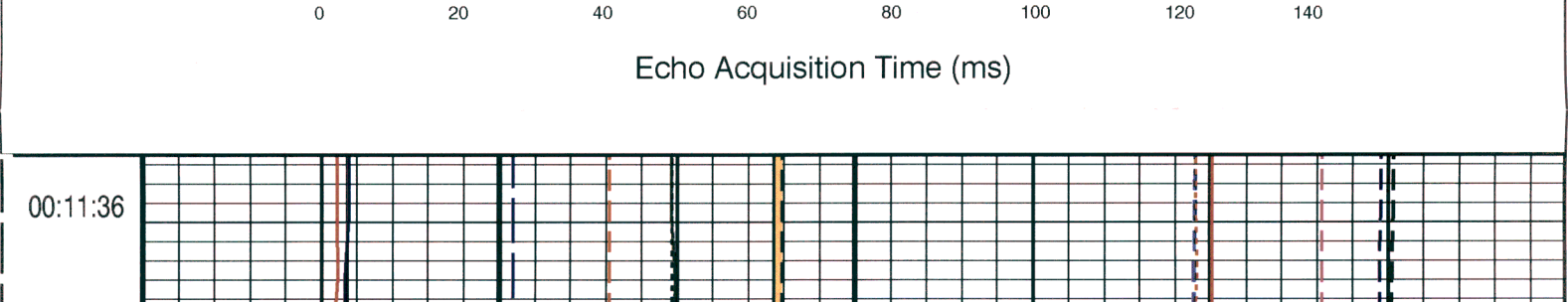
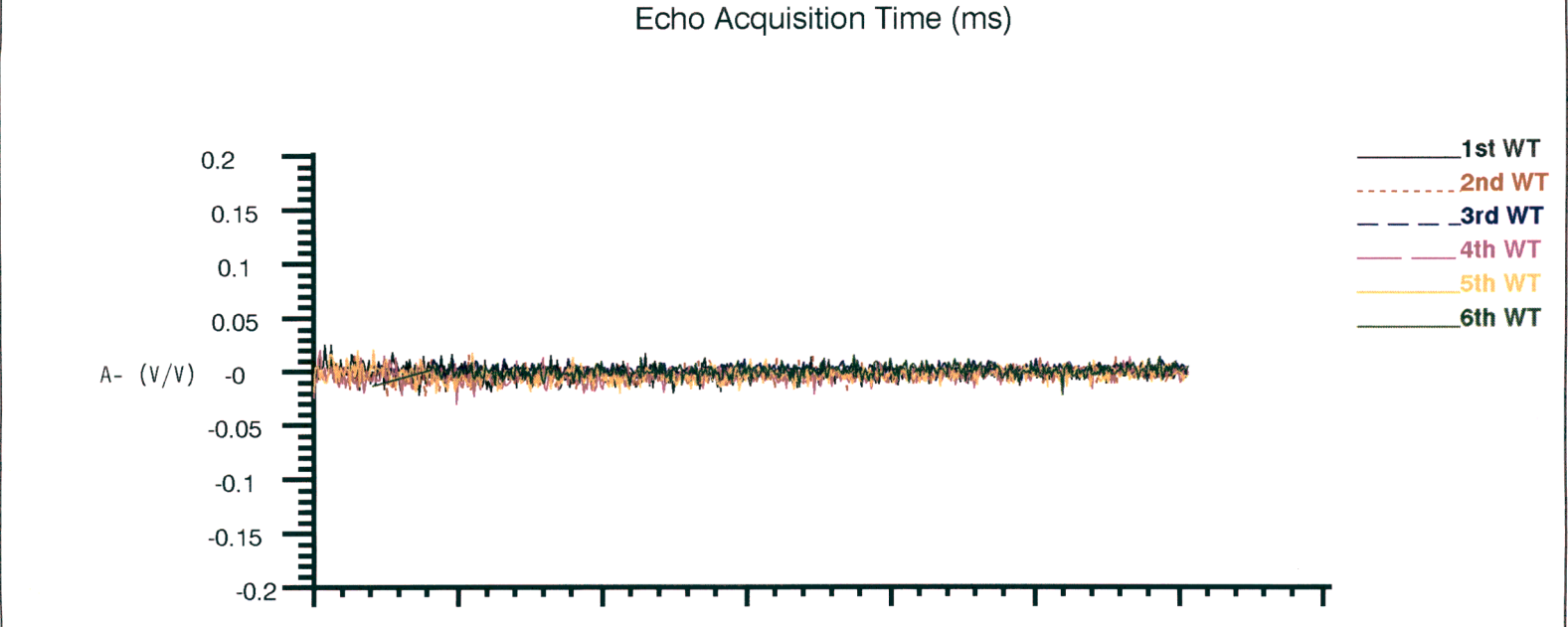
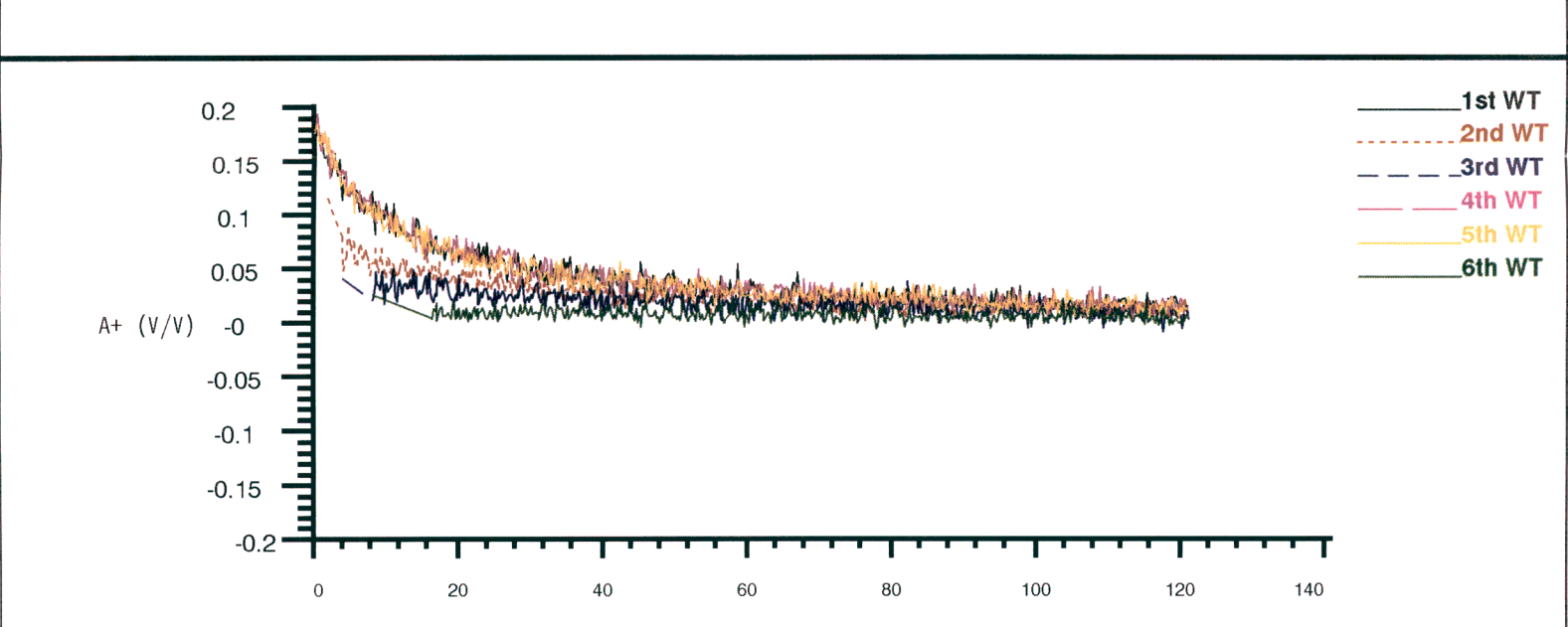
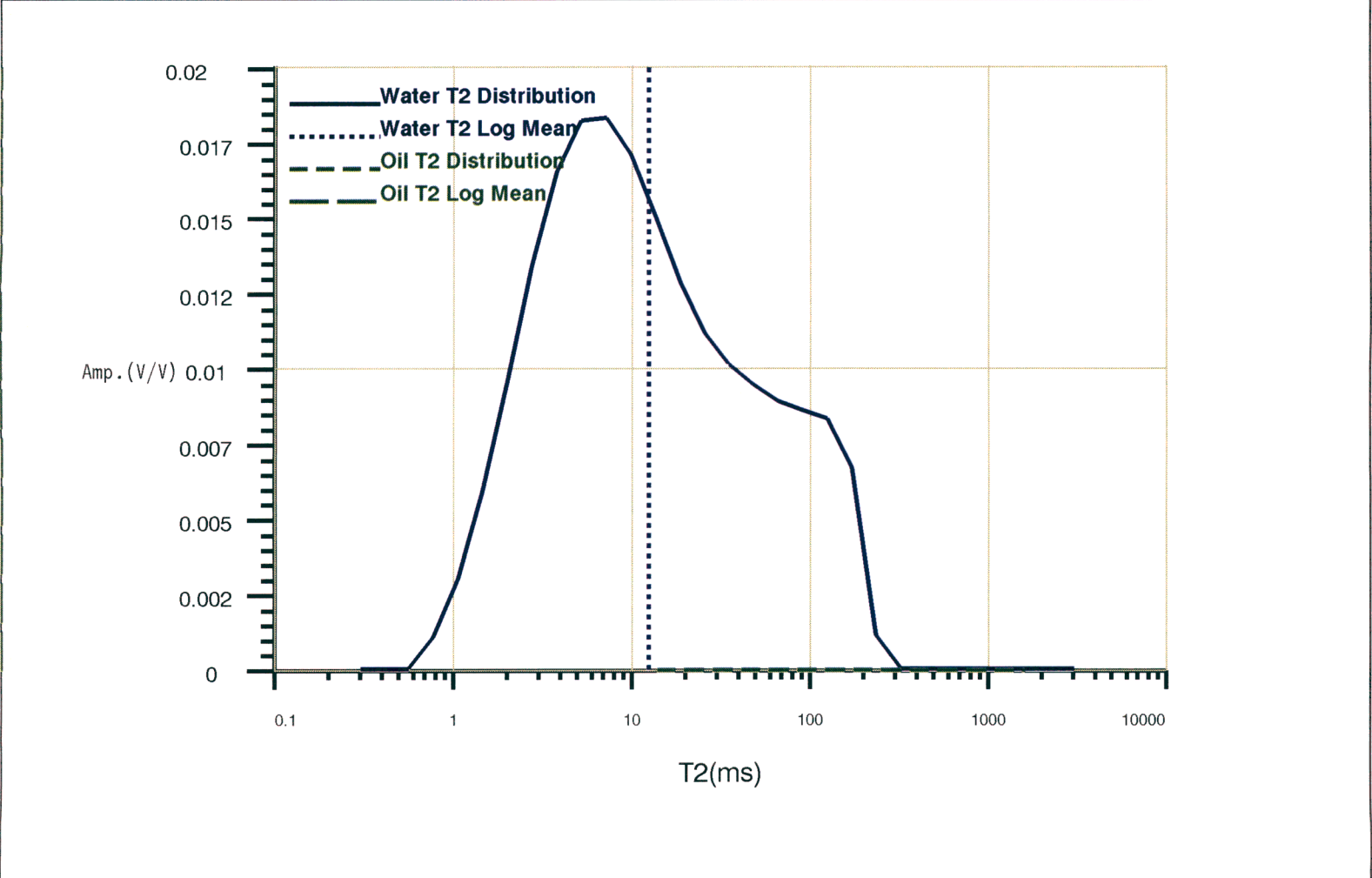


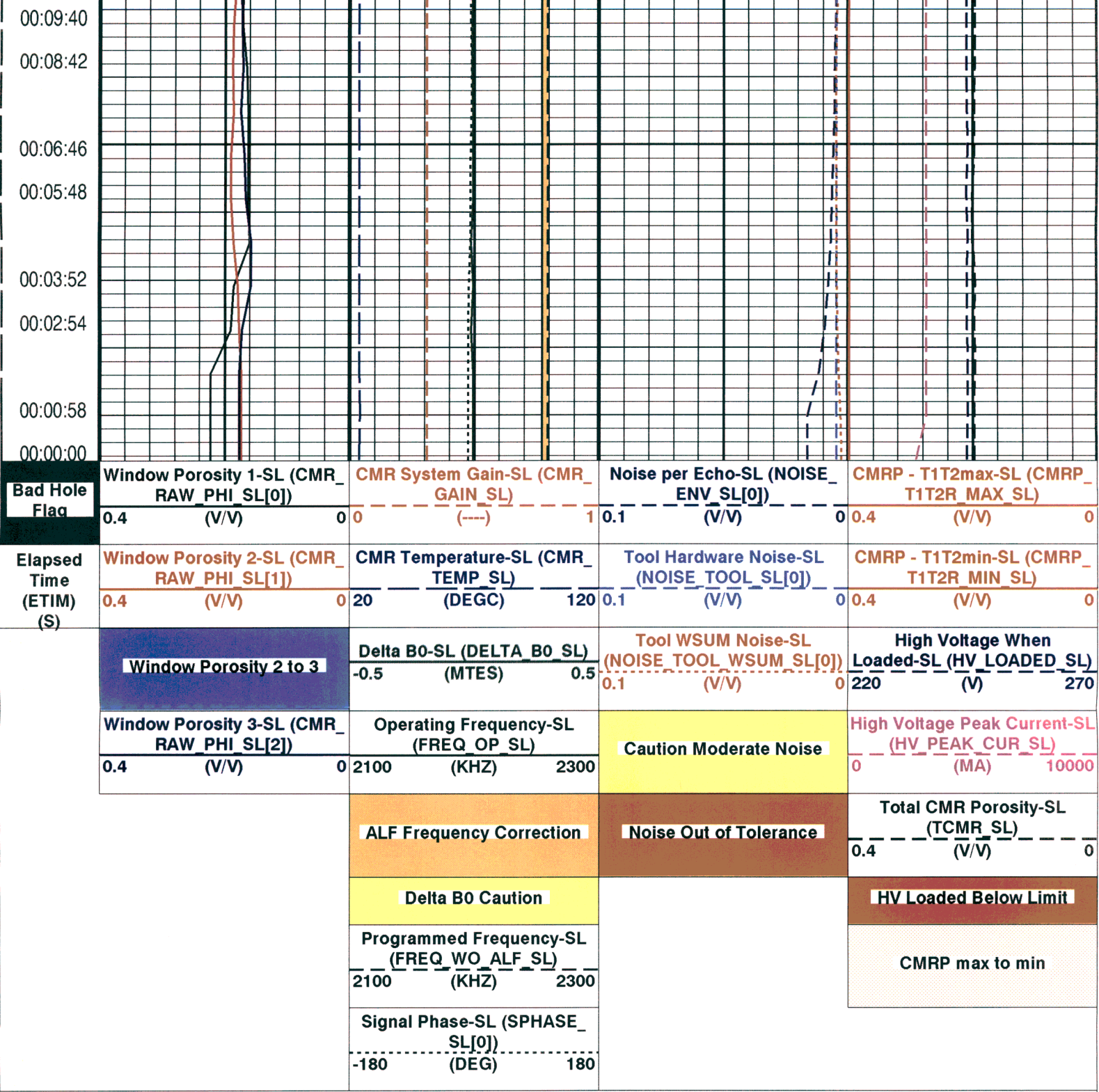
Bad Hole Flag	Window Porosity 1-SL (CMR_RAW_PHI_SL[0])	CMR System Gain-SL (CMR_GAIN_SL)	Noise per Echo-SL (NOISE_ENV_SL[0])	CMRP - T1T2max-SL (CMRP_T1T2R_MAX_SL)
	0.4 (V/V)	0 0 (----)	1 0.1 (V/V)	0 0.4 (V/V)
Elapsed Time (ETIM) (S)	Window Porosity 2-SL (CMR_RAW_PHI_SL[1])	CMR Temperature-SL (CMR_TEMP_SL)	Tool Hardware Noise-SL (NOISE_TOOL_SL[0])	CMRP - T1T2min-SL (CMRP_T1T2R_MIN_SL)
	0.4 (V/V)	0 20 (DEGC)	120 0.1 (V/V)	0 0.4 (V/V)
	Window Porosity 2 to 3	Delta B0-SL (DELTA_B0_SL)	Tool WSUM Noise-SL (NOISE_TOOL_WSUM_SL[0])	High Voltage When Loaded-SL (HV_LOADED_SL)
		-0.5 (MTES)	0.5 0.1 (V/V)	0 220 (V)
	Window Porosity 3-SL (CMR_RAW_PHI_SL[2])	Operating Frequency-SL (FREQ_OP_SL)	Caution Moderate Noise	High Voltage Peak Current-SL (HV_PEAK_CUR_SL)
	0.4 (V/V)	0 2100 (KHZ)	2300	0 0 (MA)
		ALF Frequency Correction	Noise Out of Tolerance	Total CMR Porosity-SL (TCMR_SL)
				0.4 (V/V)
		Delta B0 Caution		HV Loaded Below Limit
		Programmed Frequency-SL (FREQ_WO_ALF_SL)		CMRP max to min
		2100 (KHZ)		
		Signal Phase-SL (SPHASE_SL[0])		
		-180 (DEG)		

PIP SUMMARY			
Time Mark Every 60 S			
Format: CMRT_LQC_STATION_LOG		Vertical Scale: 1" per 180S	Graphics File Created: 18-Mar-2008 23:01
OP System Version: 15C0-309			
MCM			
HILTH-FTB	SRPC-3402-Q3_2007	CMRT-B	15C0-309
PPC1-B	15C0-309	SGT-N	15C0-309
DTC-H	15C0-309		
Output DLIS Files			
DEFAULT	TLD_MCFL_CNL_CMR_083LTP	FN:141	PRODUCER 18-Mar-2008 23:01
BACKUP	TLD_MCFL_CNL_CMR_083LTP	FN:142	PRODUCER 18-Mar-2008 23:01

Company: HUSKY OIL OPERATIONS LIMITED			
Well: HUSKY et al KEELE RIVER L-52			
Output DLIS Files			
DEFAULT	TLD_MCFL_CNL_CMR_082LTP	FN:139	PRODUCER 18-Mar-2008 22:47 469.3 M 1.9 M
BACKUP	TLD_MCFL_CNL_CMR_082LTP	FN:140	PRODUCER 18-Mar-2008 22:47 469.3 M 1.9 M

CMR STATION LOG REPORT		DEPTH(M): 461.989	
PARAMETER SUMMARY			
Tool Type: CMR-Plus	Cart. Number: 202	Sonde Number: 182	Tuning Mode: ALF
Kit Number: 28	DHC Version : 16.4	DSP Version : 13	SP Version : 9042001
Mode: Long T1 MRF-DE Station Log		LFST Freq(khz) : 2180	LFST Temp(degC) : 28.98
Log Direction: Station	Polarization Correction: Off	EPM: No	
Echo Spacing(us):	(200 2000 4000 200 200 8000)		
Polarization Time(sec):	(13 3 3 3 1 3)		
Number of Echoes:	(5000 1800 1800 3000 1800 900)		
Repetition:	(1 1 1 1 1 1)	Duty Cycle (highest): 0.0323	
Regularization:	(1 1 1 1 1 1)		
For Water:	Number of Components: 30	T2 Min(msec): 0.3	T2 Max(msec): 3000
For Oil:	Number of Components: 14	T2 Min(msec): 14	T2 Max(msec): 1590
T2 Cutoff(msec): 33	Downhole Stacking: 0	Uphole Stacking: 1	First Echo Used: No
Multiple T2 Cutoffs(msec):	(0.3 1 3 10 33 100 300 1000 3000)		T1 of Gas (sec): 4.000
Update Int.(sec): 58	Oil Diffusion/T2 Factor: 1.000		Gas Diff(e-4cm2/S): 8.000
MRF ANALYSIS RESULT			
Water Volume(V/V): 0.195	Oil Volume(V/V): 0.000	Gas Volume(V/V): 0.000	OBMF Volume(V/V): 0.000
Water Saturation(V/V): 1.000	Oil Saturation(V/V): 0.000	Gas Saturation(V/V): 0.000	OBMF Saturation(V/V): 0.000
Water T2LogMean(ms): 12.468			TCMR Porosity(V/V): 0.195
Free Water(V/V): 0.051	Bound Water(V/V): 0.144	Computed T1/T2: 0.829	
Temperature(degC): 23.520	SDR Perm. (mD): 9.039e-001	Tmr/Cts Perm. (mD): 1.811e+000	
Signal to Noise Ratio:	(38.1 20.4 10.2 36.3 32.9 3.7)		
Fluid Model:Water,Oil	R Square Values of the Fits:	(0.997 0.351 0.000 0.990 0.993 0.000 , 0.893)	
Fluid Model:Water	R Square Values of The Fits:	(0.997 0.350 0.000 0.990 0.993 0.000 , 0.893)	





PIP SUMMARY

Time Mark Every 60 S

Format: CMRT_LQC_STATION_LOG

Vertical Scale: 1" per 180S

Graphics File Created: 18-Mar-2008 22:47

OP System Version: 15C0-309

MCM

HILTH-FTB

PPC1-B

DTC-H

SRPC-3402-Q3_2007

15C0-309

15C0-309

CMRT-B

SGT-N

15C0-309

15C0-309

Output DLIS Files

DEFAULT

TLD_MCFL_CNL_CMR_082LTP

FN:139

PRODUCER

18-Mar-2008 22:47

BACKUP

TLD_MCFL_CNL_CMR_082LTP

FN:140

PRODUCER

18-Mar-2008 22:47

Company: HUSKY OIL OPERATIONS LIMITED

Well: HUSKY et al KEELE RIVER L-52

Output DLIS Files

DEFAULT

TLD_MCFL_CNL_CMR_080LTP

FN:135

PRODUCER

18-Mar-2008 22:24

473.3 M

1.8 M

BACKUP

TLD_MCFL_CNL_CMR_080LTP

FN:136

PRODUCER

18-Mar-2008 22:24

473.3 M

1.8 M

CMR STATION LOG REPORT

DEPTH(M): 466.005

PARAMETER SUMMARY

Tool Type: CMR-Plus

Cart. Number: 202

Sonde Number: 182

Tuning Mode: ALF

Kit Number: 28

DHC Version : 16.4

DSP Version : 13

SP Version : 9042001

Mode: Long T1 MRF-DE Station Log

LFST Freq(khz) : 2180

LFST Temp(degc) : 28.98

Log Direction: Station

Polarization Correction: Off

EPM: No

Echo Spacing(us):

(200 2000 4000 200 200 8000)

Polarization Time(sec):

(13 3 3 3 1 3)

Number of Echoes:

(5000 1800 1800 3000 1800 900)

Repetition:

(1 1 1 1 1 1)

Regularization:

(1 1 1 1 1 1)

Duty Cycle (highest): 0.0323

For Water:

Number of Components: 30

T2 Min(msec): 0.3

T2 Max(msec): 3000

For Oil:

Number of Components: 14

T2 Min(msec): 14

T2 Max(msec): 1590

T2 Cutoff(msec): 33

Downhole Stacking: 0

Uphole Stacking: 1

First Echo Used: No

Multiple T2 Cutoffs(msec):

(0.3 1 3 10 33 100 300 1000 3000)

T1 of Gas (sec): 4.000

Update Int.(sec): 58

Oil Diffusion/T2 Factor: 1.000

Gas Diff(e-4cm2/S): 8.000

MRF ANALYSIS RESULT

Water Volume(V/V): 0.210

Oil Volume(V/V): 0.000

Gas Volume(V/V): 0.000

OBMF Volume(V/V): 0.000

Water Saturation(V/V): 1.000

Oil Saturation(V/V): 0.000

Gas Saturation(V/V): 0.000

OBMF Saturation(V/V): 0.000

Water T2LogMean(ms): 11.798

TCMR Porosity(V/V): 0.210

Free Water(V/V): 0.054

Bound Water(V/V): 0.156

Computed T1/T2: 0.824

Temperature(degc): 23.746

SDR Perm. (mD): 1.080e+000

Tmr/Cts Perm. (mD): 2.320e+000

Signal to Noise Ratio:

(42.0 17.7 9.0 37.0 30.6 4.3)

Fluid Model:Water,Oil

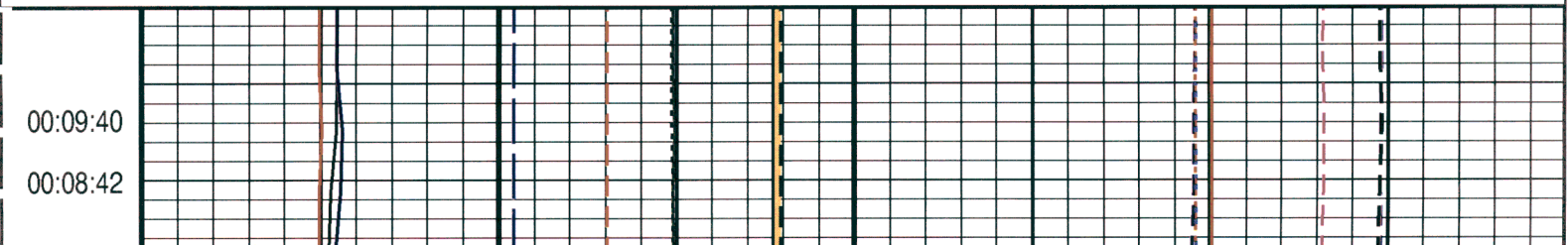
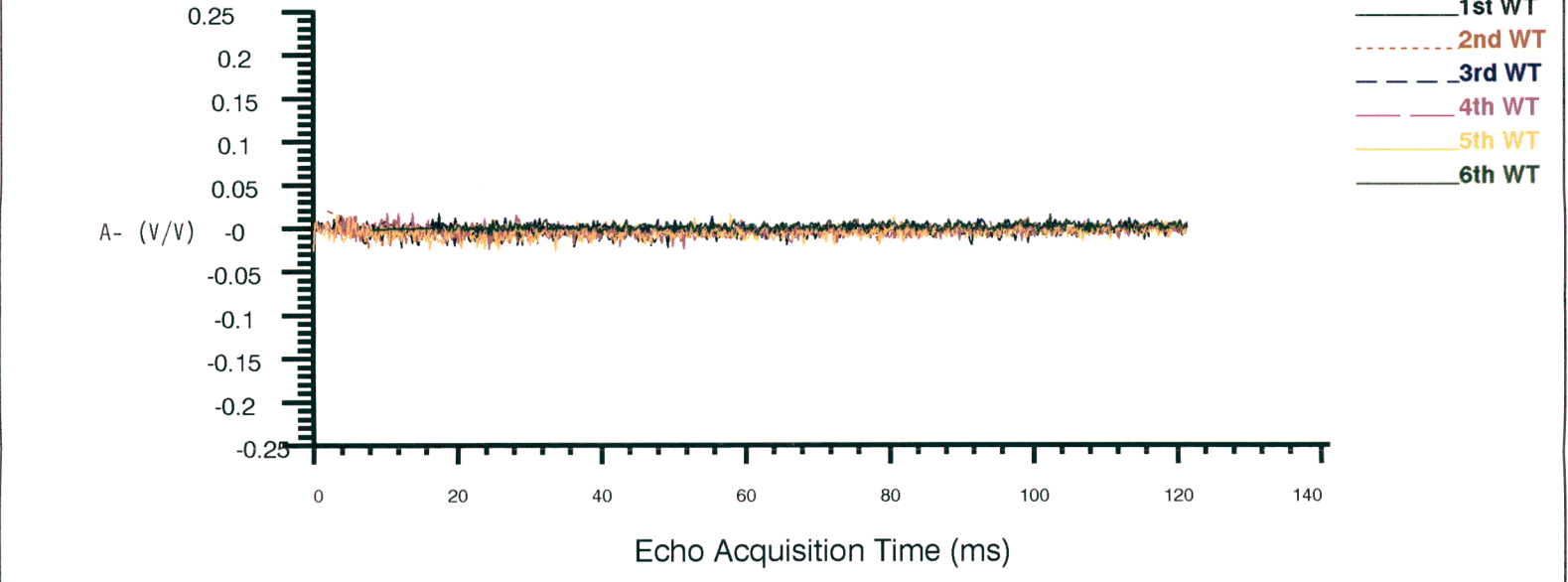
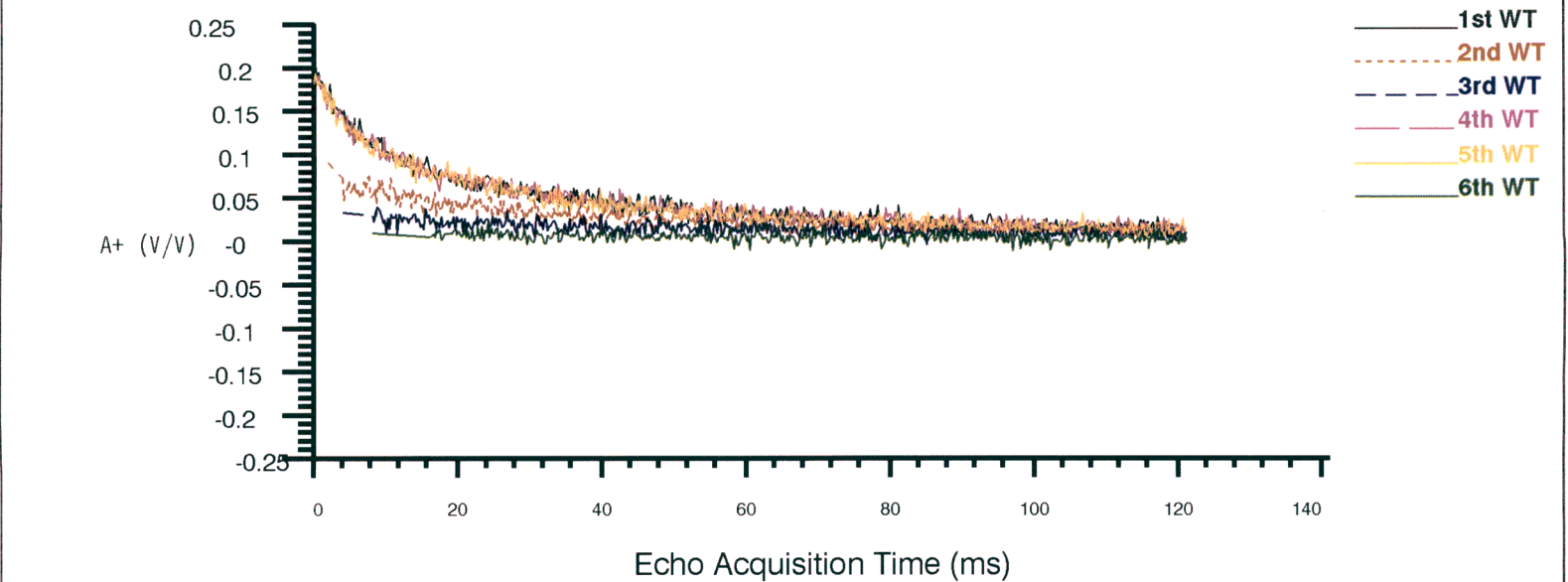
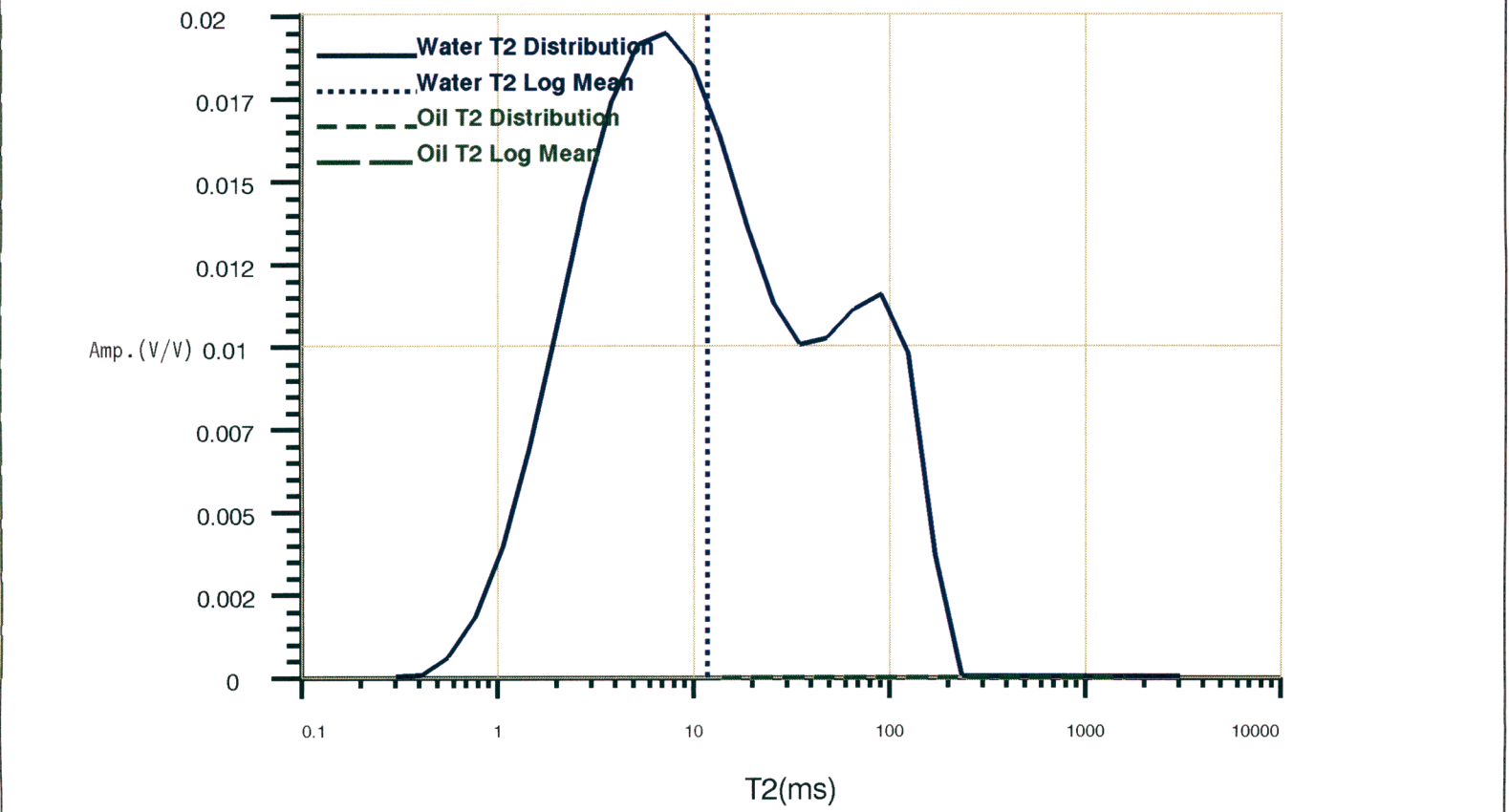
R Square Values of the Fits:

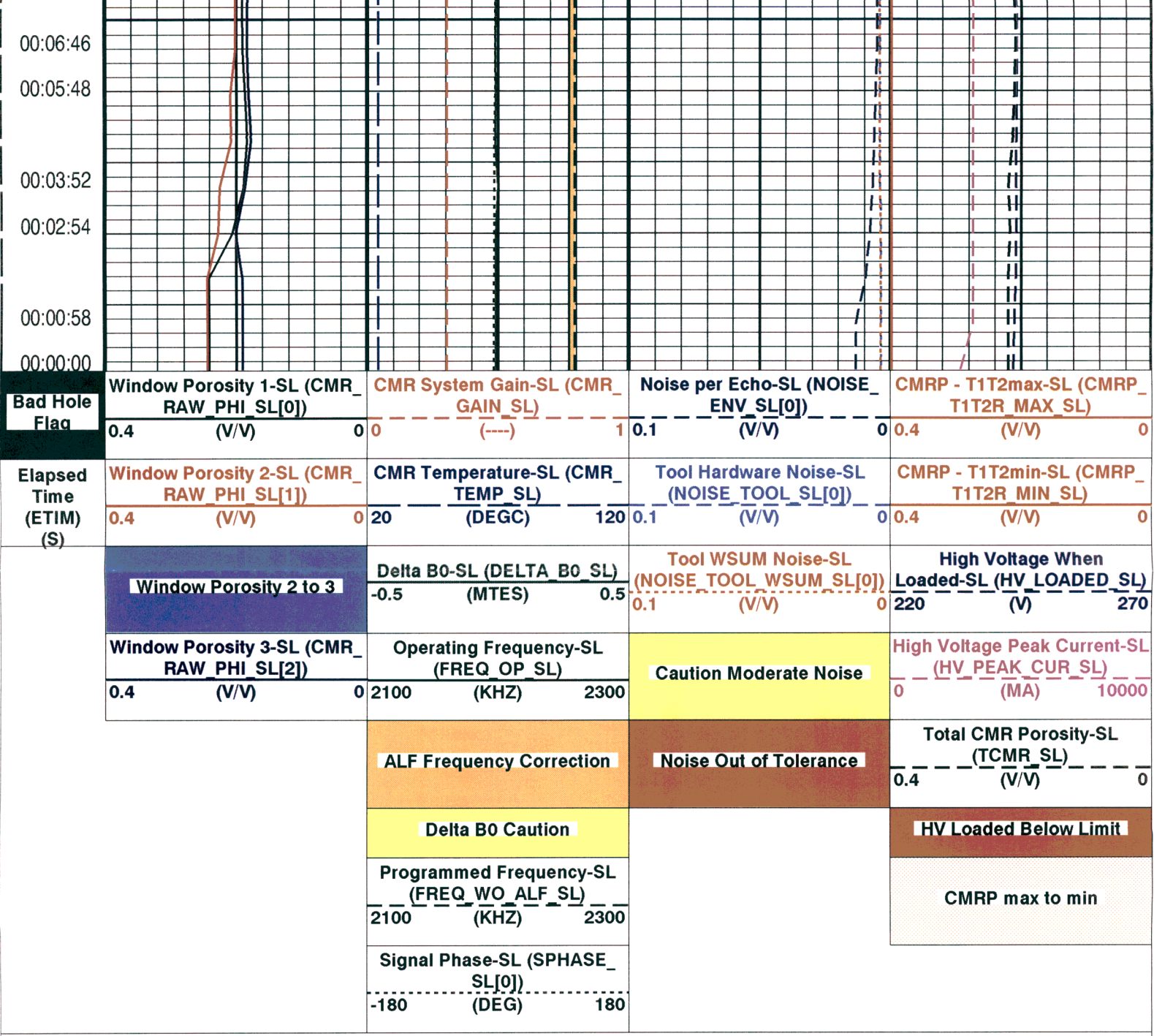
(0.993 0.000 0.000 0.994 0.993 0.000 , 0.852)

Fluid Model:Water

R Square Values of The Fits:

(0.993 0.000 0.000 0.994 0.992 0.000 , 0.852)

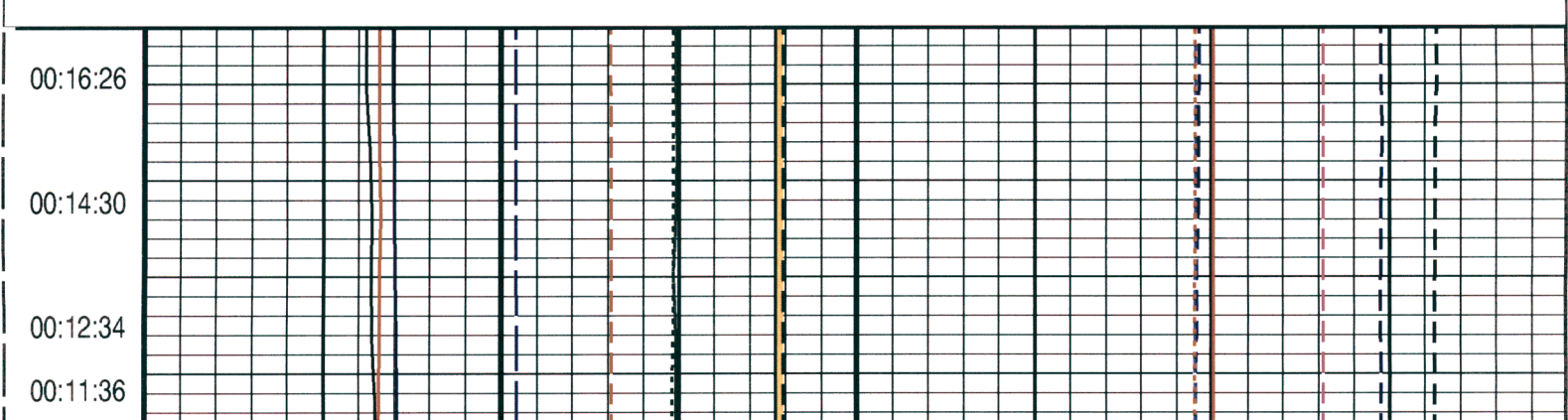
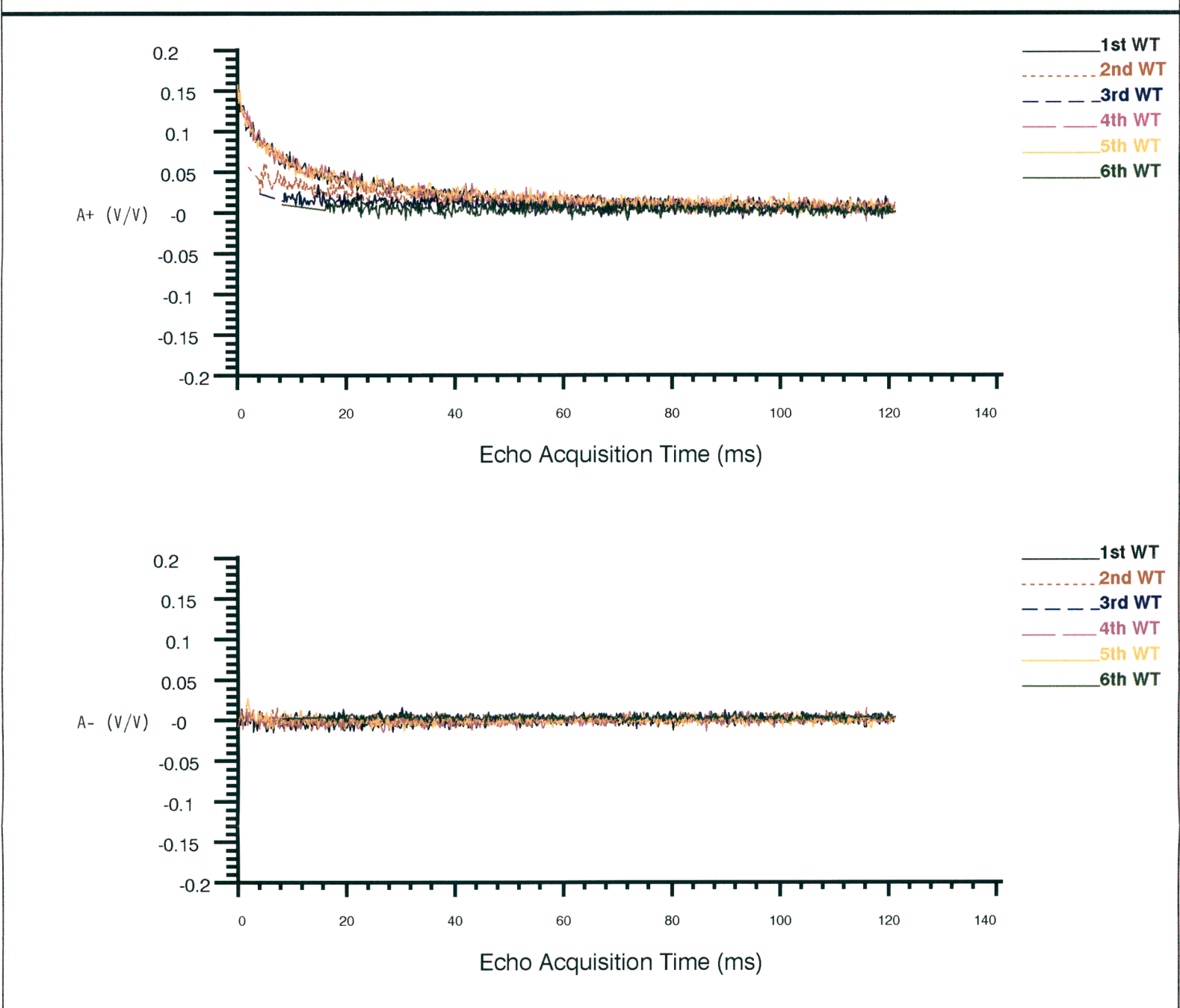
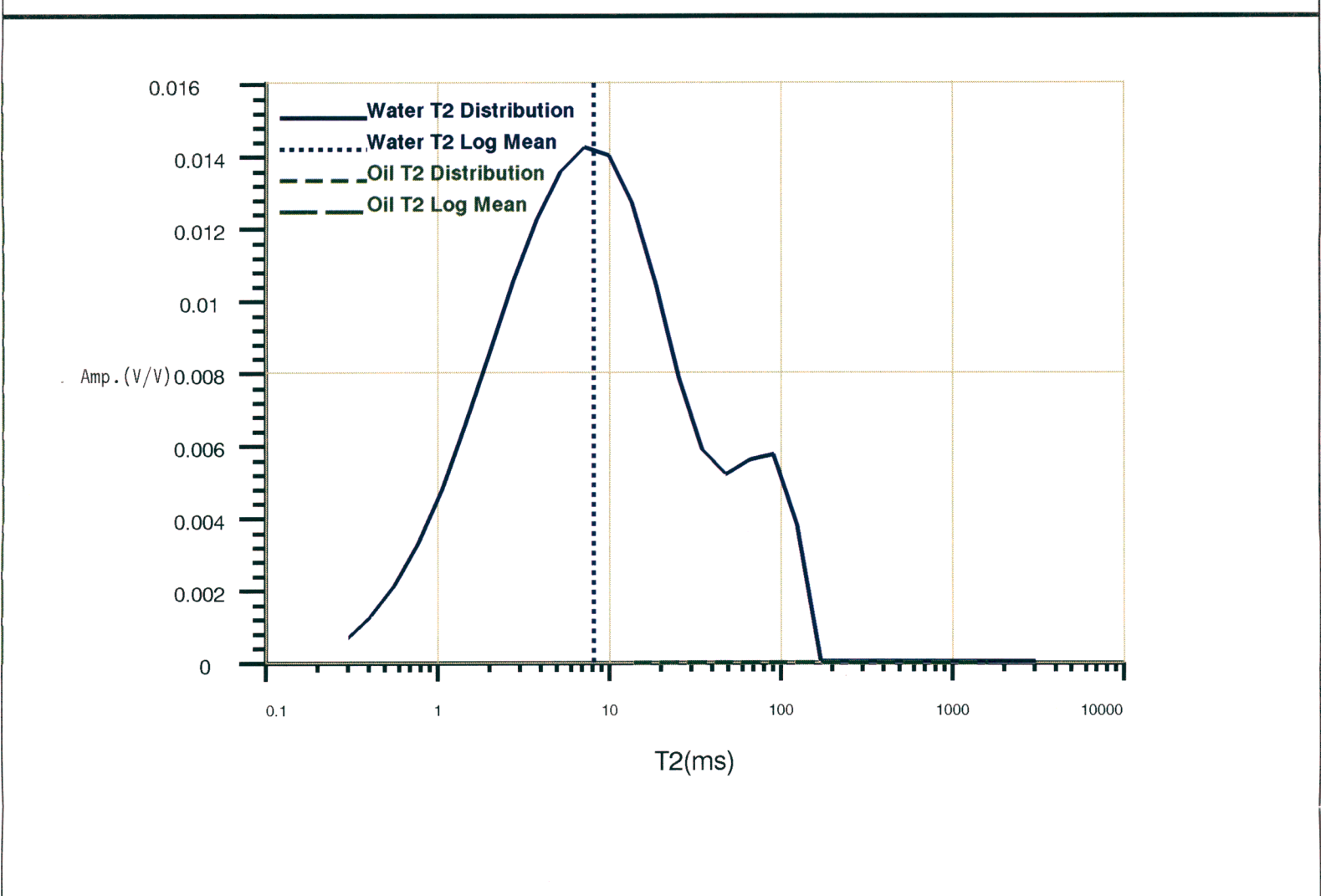


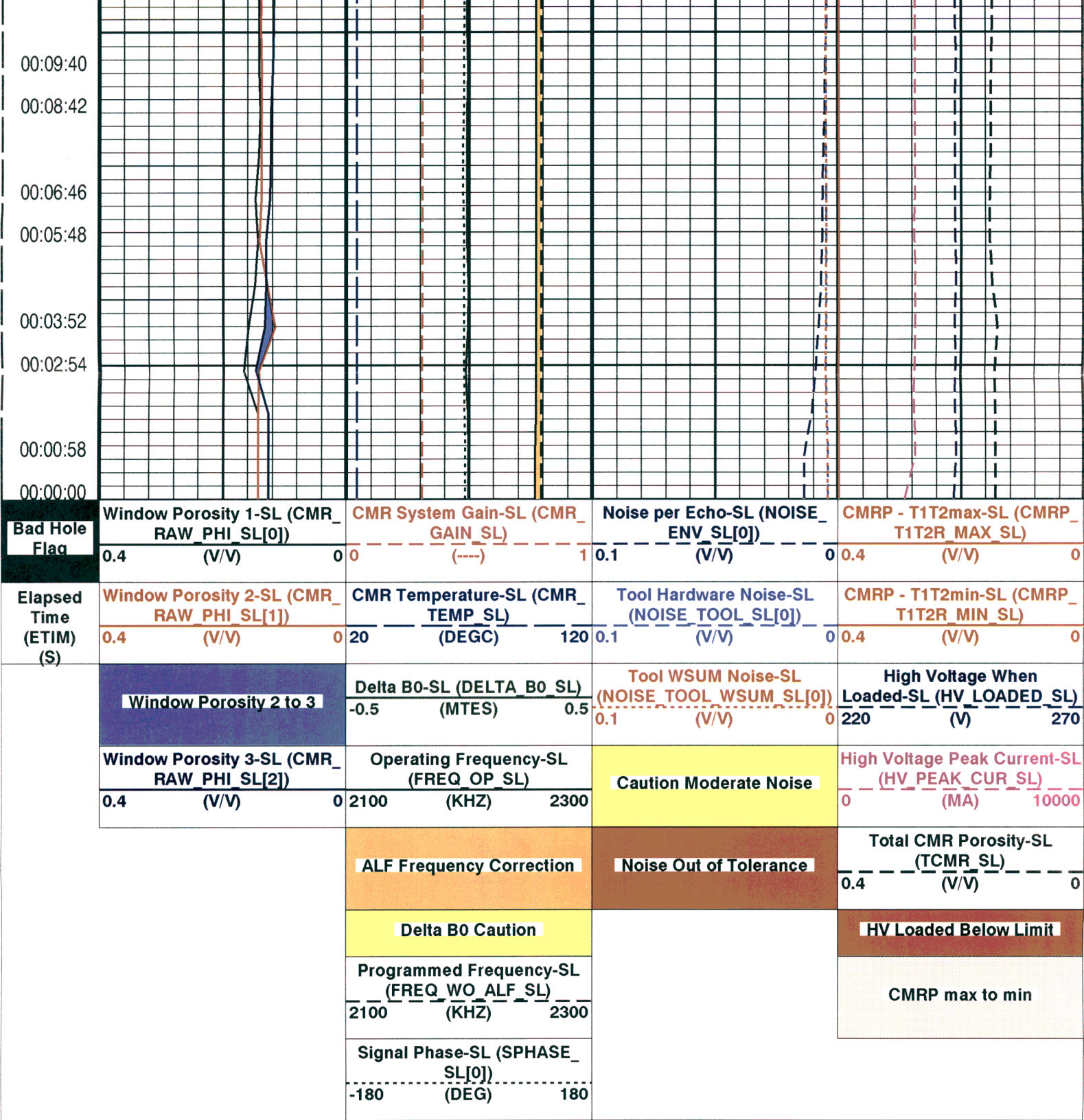


PIP SUMMARY					
Time Mark Every 60 S					
Format: CMRT_LQC_STATION_LOG		Vertical Scale: 1" per 180S		Graphics File Created: 18-Mar-2008 22:24	
OP System Version: 15C0-309					
MCM					
HILTH-FTB	SRPC-3402-Q3_2007	CMRT-B	15C0-309		
PPC1-B	15C0-309	SGT-N	15C0-309		
DTC-H	15C0-309				
Output DLIS Files					
DEFAULT	TLD_MCFL_CNL_CMR_080LTP	FN:135	PRODUCER	18-Mar-2008 22:24	
BACKUP	TLD_MCFL_CNL_CMR_080LTP	FN:136	PRODUCER	18-Mar-2008 22:24	

Company: HUSKY OIL OPERATIONS LIMITED				Well: HUSKY et al KEELE RIVER L-52		
Output DLIS Files						
DEFAULT	TLD_MCFL_CNL_CMR_079LTP	FN:133	PRODUCER	18-Mar-2008 22:05	477.8 M	2.7 M
BACKUP	TLD_MCFL_CNL_CMR_079LTP	FN:134	PRODUCER	18-Mar-2008 22:05	477.8 M	2.7 M

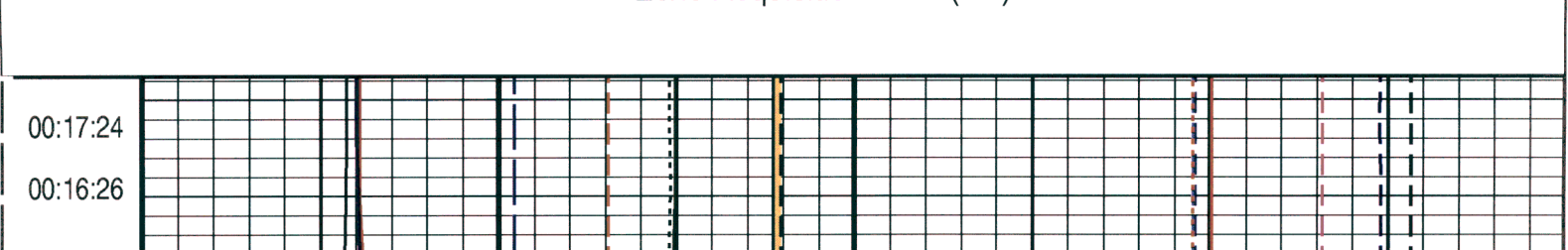
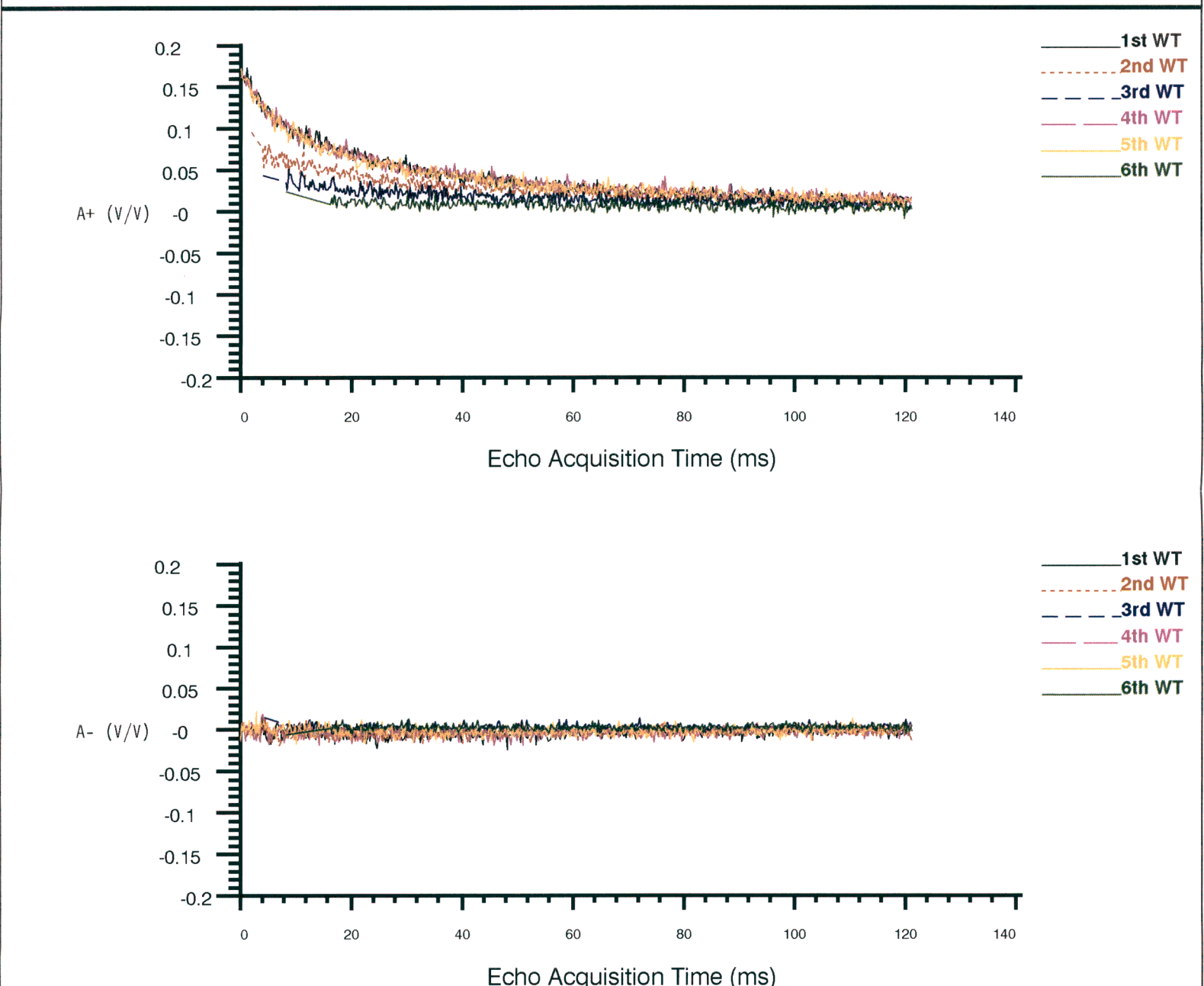
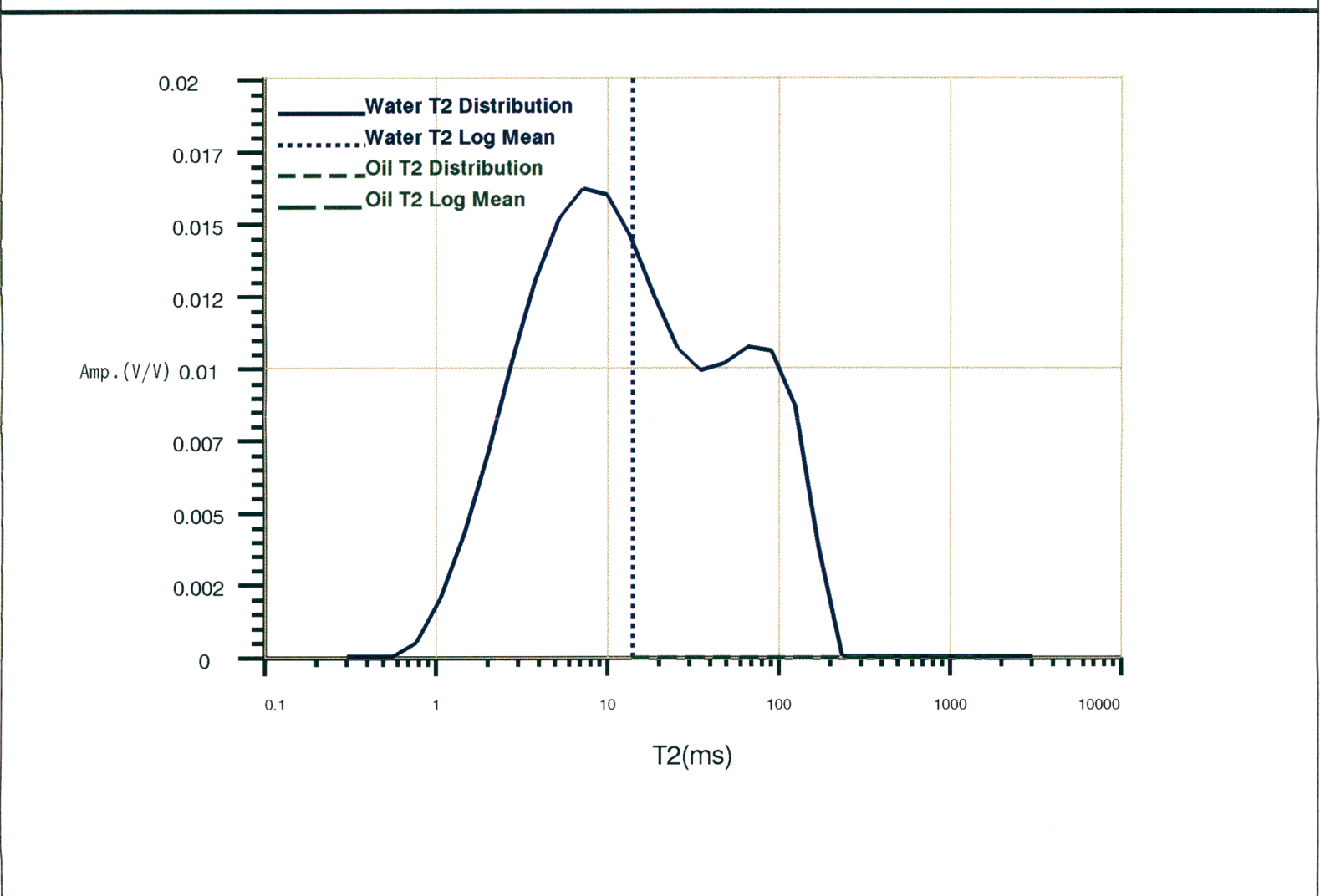
CMR STATION LOG REPORT		DEPTH(M): 470.493	
PARAMETER SUMMARY			
Tool Type: CMR-Plus	Cart. Number: 202	Sonde Number: 182	Tuning Mode: ALF
Kit Number: 28	DHC Version : 16.4	DSP Version : 13	SP Version : 9042001
Mode: Long T1 MRF-DE Station Log		LFST Freq(khz) : 2180	LFST Temp(degC) : 28.98
Log Direction: Station	Polarization Correction: Off	EPM: No	
Echo Spacing(us):	(200 2000 4000 200 200 8000)		
Polarization Time(sec):	(13 3 3 3 1 3)		
Number of Echoes:	(5000 1800 1800 3000 1800 900)		
Repetition:	(1 1 1 1 1 1)	Duty Cycle (highest): 0.0323	
Regularization:	(1 1 1 1 1 1)		
For Water:	Number of Components: 30	T2 Min(msec): 0.3	T2 Max(msec): 3000
For Oil:	Number of Components: 14	T2 Min(msec): 14	T2 Max(msec): 1590
T2 Cutoff(msec): 33	Downhole Stacking: 0	Uphole Stacking: 1	First Echo Used: No
Multiple T2 Cutoffs(msec):	(0.3 1 3 10 33 100 300 1000 3000)		T1 of Gas (sec): 4.000
Update Int.(sec): 58	Oil Diffusion/T2 Factor: 1.000		Gas Diff(e-4cm2/S): 8.000
MRF ANALYSIS RESULT			
Water Volume(V/V): 0.149	Oil Volume(V/V): 0.000	Gas Volume(V/V): 0.000	OBMF Volume(V/V): 0.000
Water Saturation(V/V): 1.000	Oil Saturation(V/V): 0.000	Gas Saturation(V/V): 0.000	OBMF Saturation(V/V): 0.000
Water T2LogMean(ms): 8.131			TCMR Porosity(V/V): 0.149
Free Water(V/V): 0.025	Bound Water(V/V): 0.124	Computed T1/T2: 1.017	
Temperature(degC): 23.833	SDR Perm. (mD): 1.287e-001	Tmr/Cts Perm. (mD): 1.944e-001	
Signal to Noise Ratio:	(34.2 13.7 5.7 33.5 31.7 9.3)		
Fluid Model:Water,Oil	R Square Values of the Fits:	(0.990 0.000 0.000 0.991 0.983 0.000 , 0.881)	
Fluid Model:Water	R Square Values of The Fits:	(0.990 0.000 0.000 0.991 0.983 0.000 , 0.881)	

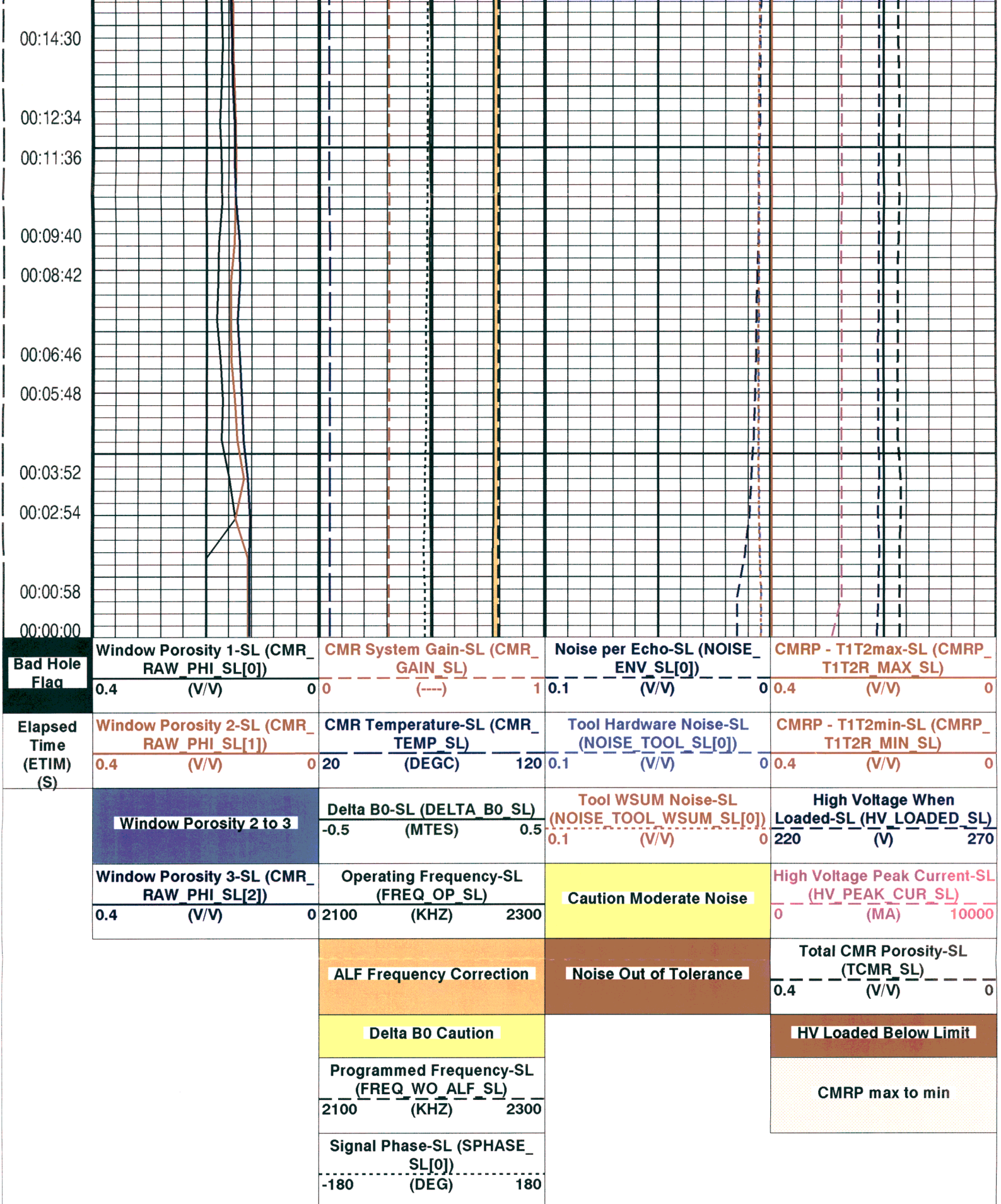




PIP SUMMARY					
Time Mark Every 60 S					
Format: CMRT_LQC_STATION_LOG		Vertical Scale: 1" per 180S		Graphics File Created: 18-Mar-2008 22:05	
OP System Version: 15C0-309					
MCM					
HILTH-FTB	SRPC-3402-Q3_2007	CMRT-B	15C0-309		
PPC1-B	15C0-309	SGT-N	15C0-309		
DTC-H	15C0-309				
Output DLIS Files					
DEFAULT	TLD_MCFL_CNL_CMR_079LTP	FN:133	PRODUCER	18-Mar-2008 22:05	
BACKUP	TLD_MCFL_CNL_CMR_079LTP	FN:134	PRODUCER	18-Mar-2008 22:05	

Company: HUSKY OIL OPERATIONS LIMITED				Well: HUSKY et al KEELE RIVER L-52		
Output DLIS Files						
DEFAULT	TLD_MCFL_CNL_CMR_078LTP	FN:131	PRODUCER	18-Mar-2008 21:44	486.9 M	2.8 M
BACKUP	TLD_MCFL_CNL_CMR_078LTP	FN:132	PRODUCER	18-Mar-2008 21:44	486.9 M	2.8 M
CMR STATION LOG REPORT DEPTH(M): 479.586						
PARAMETER SUMMARY						
Tool Type: CMR-Plus		Cart. Number: 202		Sonde Number: 182		Tuning Mode: ALF
Kit Number: 28		DHC Version : 16.4		DSP Version : 13		SP Version : 9042001
Mode: Long T1 MRF-DE Station Log				LFST Freq(khz) : 2180		LFST Temp(degc) : 28.98
Log Direction: Station		Polarization Correction: Off		EPM: No		
Echo Spacing(us):		(200 2000 4000 200 200 8000)				
Polarization Time(sec):		(13 3 3 3 1 3)				
Number of Echoes:		(5000 1800 1800 3000 1800 900)				
Repetition:		(1 1 1 1 1 1)		Duty Cycle (highest): 0.0323		
Regularization:		(1 1 1 1 1 1)				
For Water:		Number of Components: 30		T2 Min(msec): 0.3		T2 Max(msec): 3000
For Oil:		Number of Components: 14		T2 Min(msec): 14		T2 Max(msec): 1590
T2 Cutoff(msec): 33		Downhole Stacking: 0		Uphole Stacking: 1		First Echo Used: No
Multiple T2 Cutoffs(msec):		(0.3 1 3 10 33 100 300 1000 3000)		T1 of Gas (sec): 4.000		
Update Int.(sec): 58		Oil Diffusion/T2 Factor: 1.000		Gas Diff(e-4cm2/S): 8.000		
MRF ANALYSIS RESULT						
Water Volume(V/V): 0.175		Oil Volume(V/V): 0.000		Gas Volume(V/V): 0.000		OBMF Volume(V/V): 0.000
Water Saturation(V/V): 1.000		Oil Saturation(V/V): 0.000		Gas Saturation(V/V): 0.000		OBMF Saturation(V/V): 0.000
Water T2LogMean(ms): 14.136						TCMR Porosity(V/V): 0.175
Free Water(V/V): 0.051		Bound Water(V/V): 0.124		Computed T1/T2: 0.808		
Temperature(degc): 24.062		SDR Perm. (mD): 7.575e-001		Tmr/Cts Perm. (mD): 1.631e+000		
Signal to Noise Ratio:		(35.0 21.1 17.7 34.7 32.6 8.3)				
Fluid Model:Water,Oil		R Square Values of the Fits:		(0.987 0.395 0.000 0.993 0.993 0.000 , 0.909)		
Fluid Model:Water		R Square Values of The Fits:		(0.987 0.393 0.000 0.993 0.993 0.000 , 0.908)		

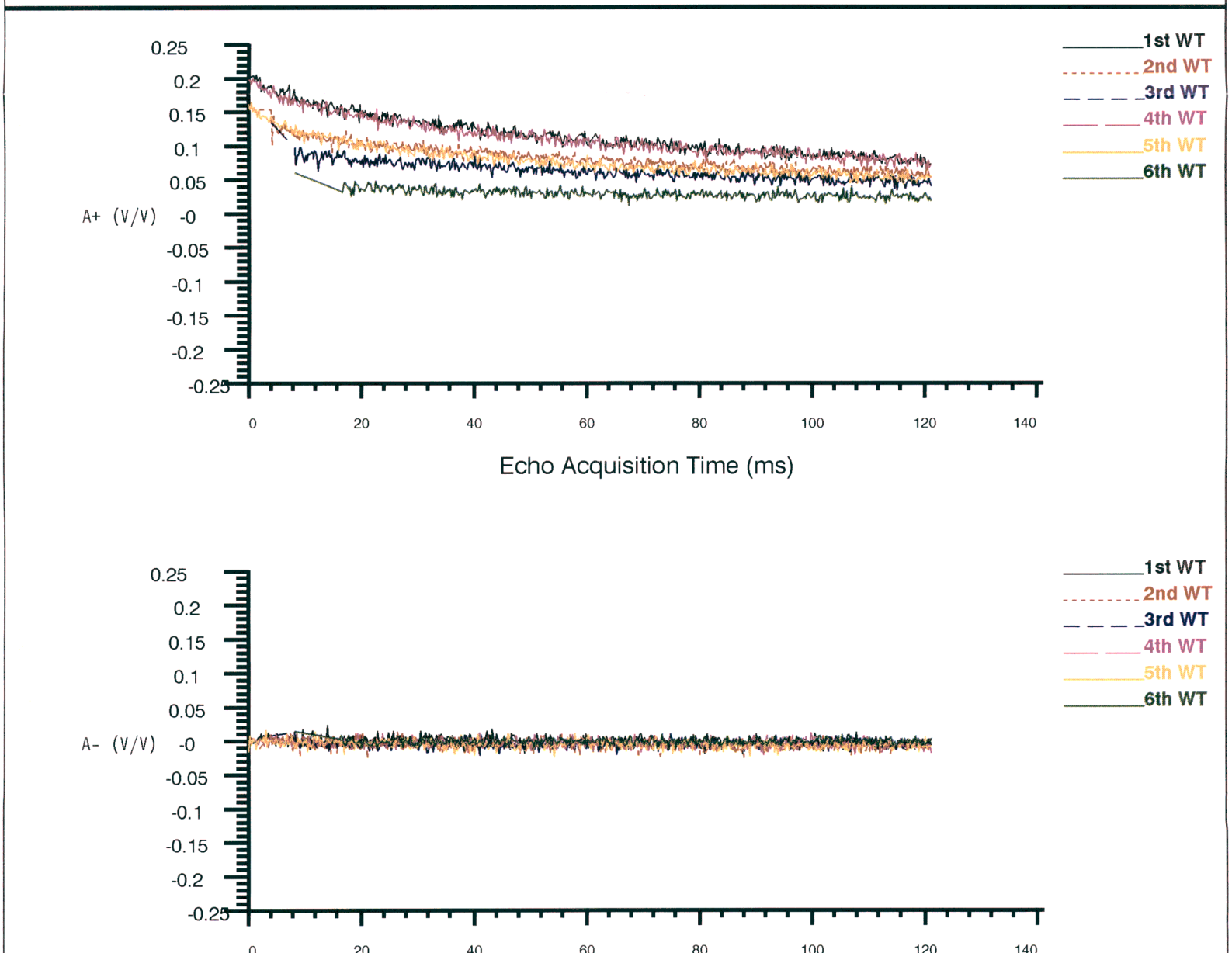
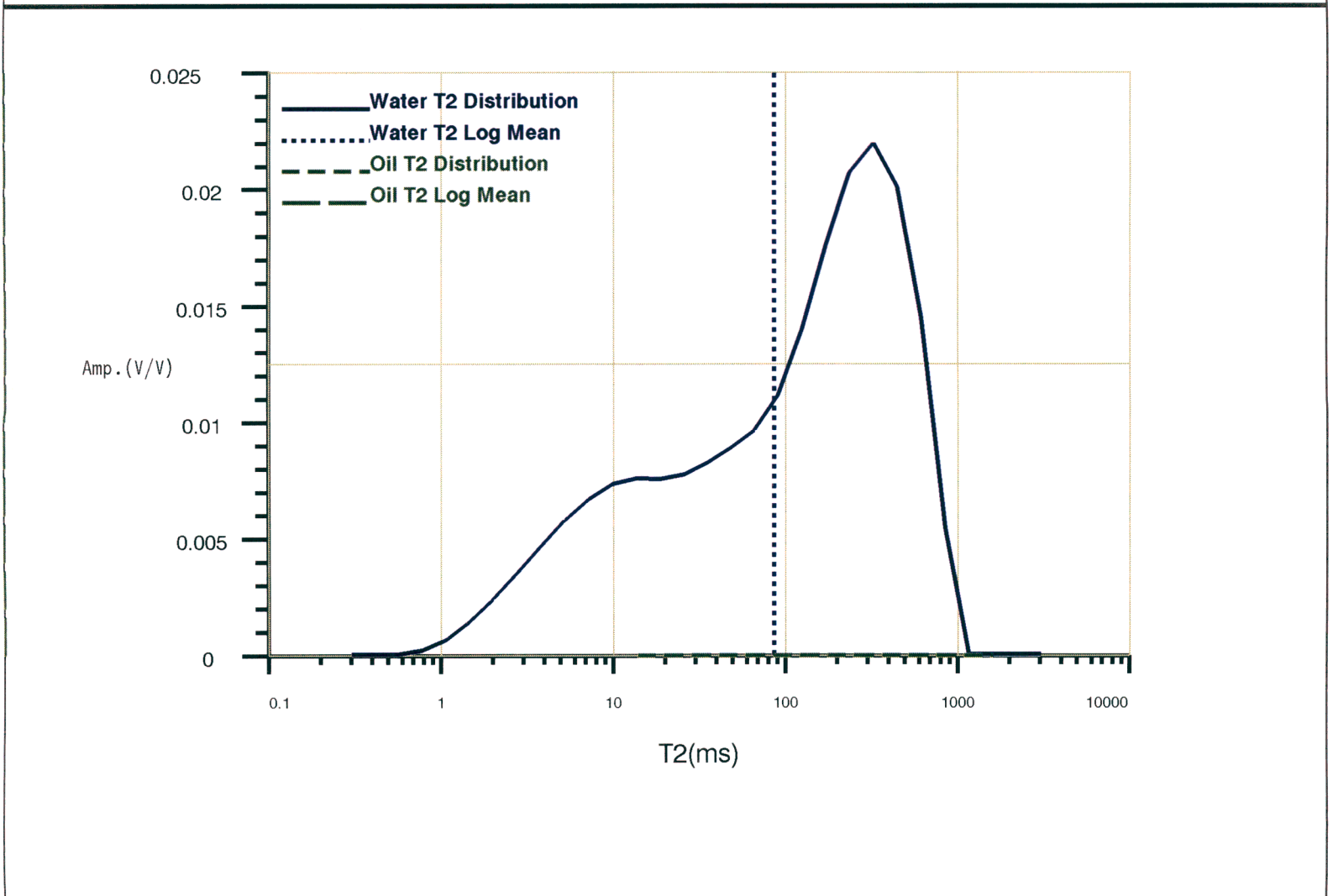


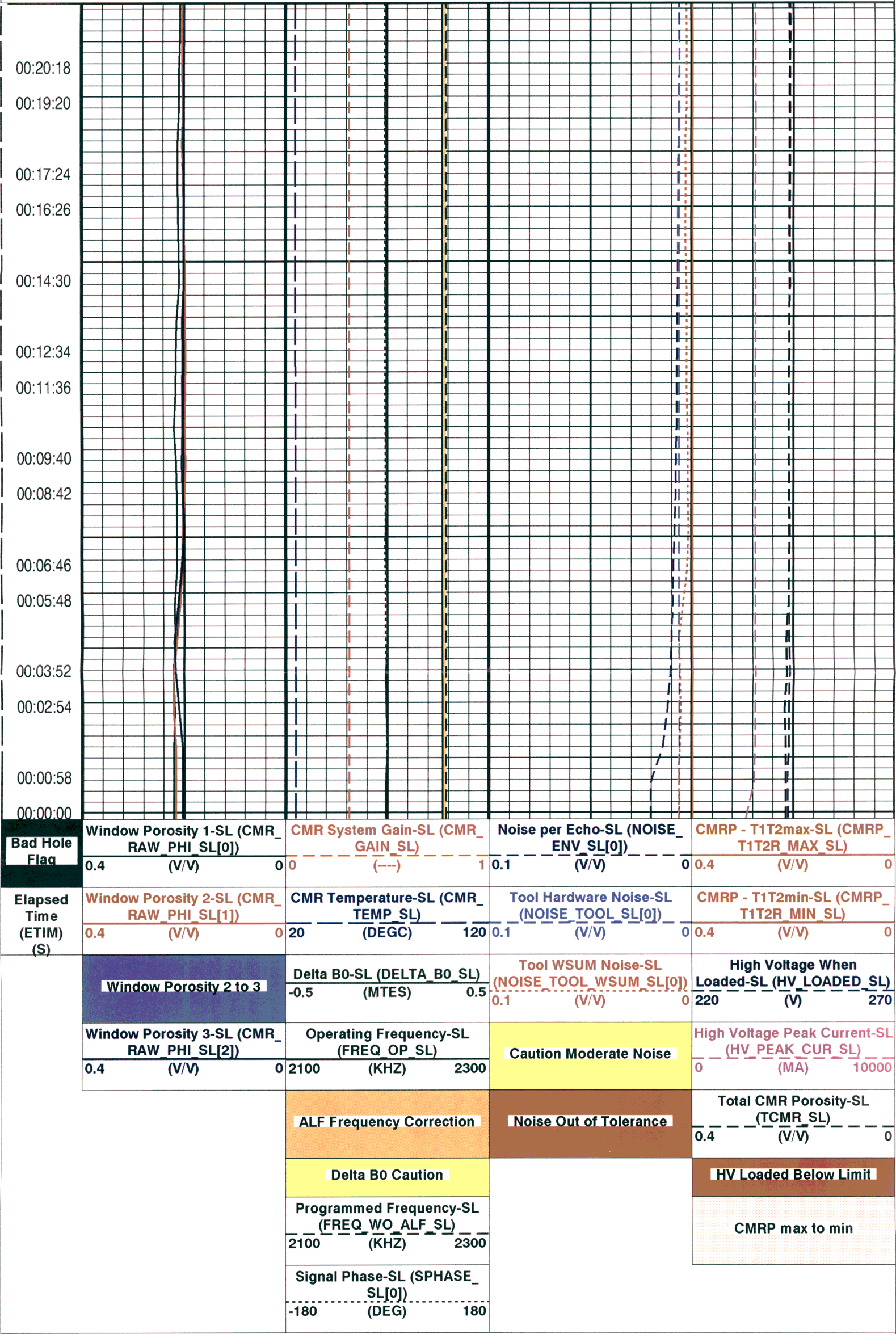


PIP SUMMARY			
Time Mark Every 60 S			
Format: CMRT_LQC_STATION_LOG		Vertical Scale: 1" per 180S	Graphics File Created: 18-Mar-2008 21:44
OP System Version: 15C0-309			
MCM			
HILTH-FTB	SRPC-3402-Q3_2007	CMRT-B	15C0-309
PPC1-B	15C0-309	SGT-N	15C0-309
DTC-H	15C0-309		
Output DLIS Files			
DEFAULT	TLD_MCFL_CNL_CMR_078LTP	FN:131	PRODUCER 18-Mar-2008 21:44
BACKUP	TLD_MCFL_CNL_CMR_078LTP	FN:132	PRODUCER 18-Mar-2008 21:44

Company: HUSKY OIL OPERATIONS LIMITED				Well: HUSKY et al KEELE RIVER L-52		
Output DLIS Files						
DEFAULT	TLD_MCFL_CNL_CMR_077LTP	FN:129	PRODUCER	18-Mar-2008 21:17	502.3 M	3.4 M
BACKUP	TLD_MCFL_CNL_CMR_077LTP	FN:130	PRODUCER	18-Mar-2008 21:17	502.3 M	3.4 M

CMR STATION LOG REPORT		DEPTH(M): 494.989	
PARAMETER SUMMARY			
Tool Type: CMR-Plus	Cart. Number: 202	Sonde Number: 182	Tuning Mode: ALF
Kit Number: 28	DHC Version : 16.4	DSP Version : 13	SP Version : 9042001
Mode: Long T1 MRF-DE Station Log		LFST Freq(khz) : 2180	LFST Temp(deg) : 28.98
Log Direction: Station	Polarization Correction: Off	EPM: No	
Echo Spacing(us):	(200 2000 4000 200 200 8000)		
Polarization Time(sec):	(13 3 3 3 1 3)		
Number of Echoes:	(5000 1800 1800 3000 1800 900)		
Repetition:	(1 1 1 1 1 1)	Duty Cycle (highest): 0.0323	
Regularization:	(1 1 1 1 1 1)		
For Water:	Number of Components: 30	T2 Min(msec): 0.3	T2 Max(msec): 3000
For Oil:	Number of Components: 14	T2 Min(msec): 14	T2 Max(msec): 1590
T2 Cutoff(msec): 33	Downhole Stacking: 0	Uphole Stacking: 1	First Echo Used: No
Multiple T2 Cutoffs(msec):	(0.3 1 3 10 33 100 300 1000 3000)		T1 of Gas (sec): 4.000
Update Int.(sec): 58	Oil Diffusion/T2 Factor: 1.000		Gas Diff(e-4cm2/S): 8.000
MRF ANALYSIS RESULT			
Water Volume(V/V): 0.207	Oil Volume(V/V): 0.000	Gas Volume(V/V): 0.000	OBMF Volume(V/V): 0.000
Water Saturation(V/V): 1.000	Oil Saturation(V/V): 0.000	Gas Saturation(V/V): 0.000	OBMF Saturation(V/V): 0.000
Water T2LogMean(ms): 85.623			TCMR Porosity(V/V): 0.207
Free Water(V/V): 0.150	Bound Water(V/V): 0.057	Computed T1/T2: 3.126	
Temperature(deg): 24.326	SDR Perm. (mD): 5.400e+001	Tmr/Cts Perm. (mD): 1.272e+002	
Signal to Noise Ratio:	(30.8 17.4 19.7 24.0 19.5 12.6)		
Fluid Model:Water,Oil	R Square Values of the Fits:	(0.998 0.932 0.728 0.993 0.984 0.000 , 0.959)	
Fluid Model:Water	R Square Values of The Fits:	(0.998 0.932 0.727 0.993 0.984 0.000 , 0.959)	





PIP SUMMARY

Time Mark Every 60 S

Format: CMRT_LQC_STATION_LOG

Vertical Scale: 1" per 180S

Graphics File Created: 18-Mar-2008 21:17

OP System Version: 15C0-309

MCM

HILTH-FTB

SRPC-3402-Q3_2007

CMRT-B

15C0-309

PPC1-B

15C0-309

SGT-N

15C0-309

DTC-H

15C0-309

Output DLIS Files

DEFAULT

TLD_MCFL_CNL_CMRT_077LTP

FN:129

PRODUCER

18-Mar-2008 21:17

BACKUP

TLD_MCFL_CNL_CMRT_077LTP

FN:130

PRODUCER

18-Mar-2008 21:17

Output DLIS Files			
DEFAULT	TLD_MCFL_CNL_CMR_077LTP	FN:129	PRODUCER 18-Mar-2008 21:17
BACKUP	TLD_MCFL_CNL_CMR_077LTP	FN:130	PRODUCER 18-Mar-2008 21:17

Company: HUSKY OIL OPERATIONS LIMITED	Well: HUSKY et al KEELE RIVER L-52
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Output DLIS Files			
DEFAULT	TLD_MCFL_CNL_CMR_076LTP	FN:127	PRODUCER 18-Mar-2008 20:59 507.8 M 2.4 M
BACKUP	TLD_MCFL_CNL_CMR_076LTP	FN:128	PRODUCER 18-Mar-2008 20:59 507.8 M 2.4 M

CMR STATION LOG REPORT

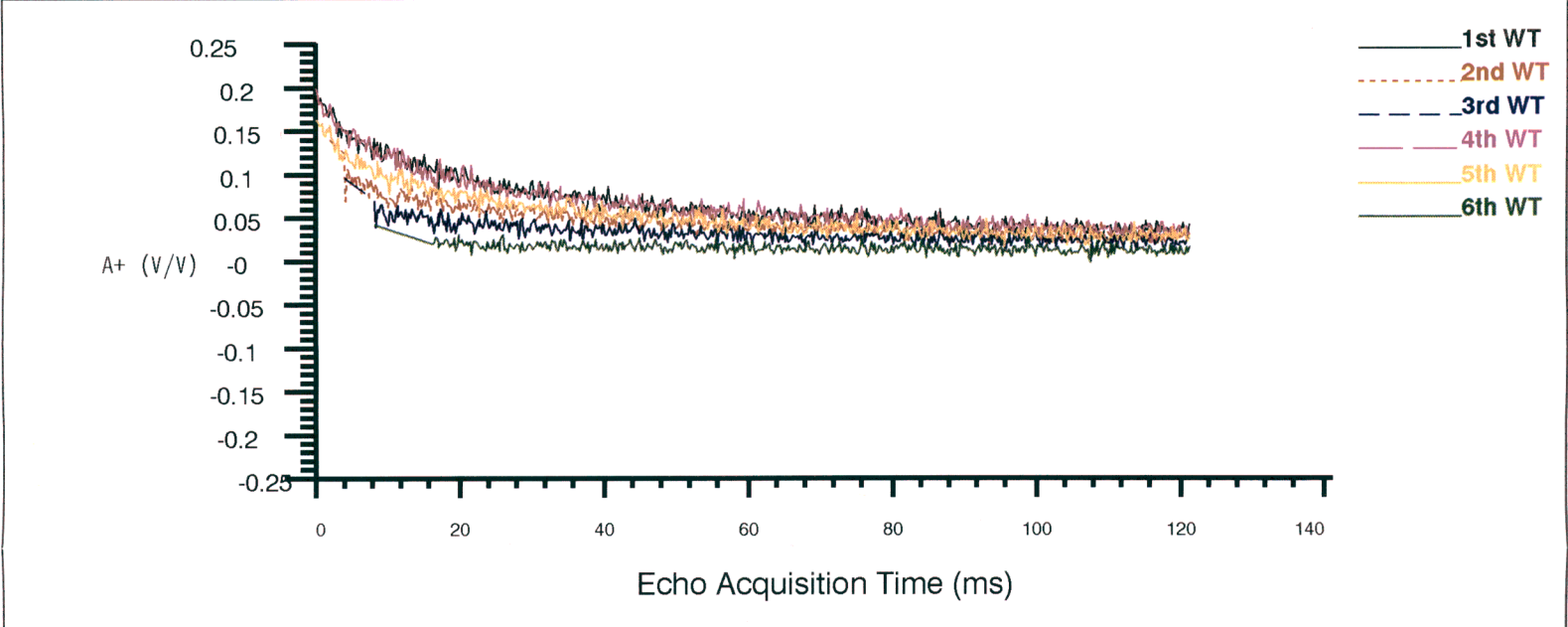
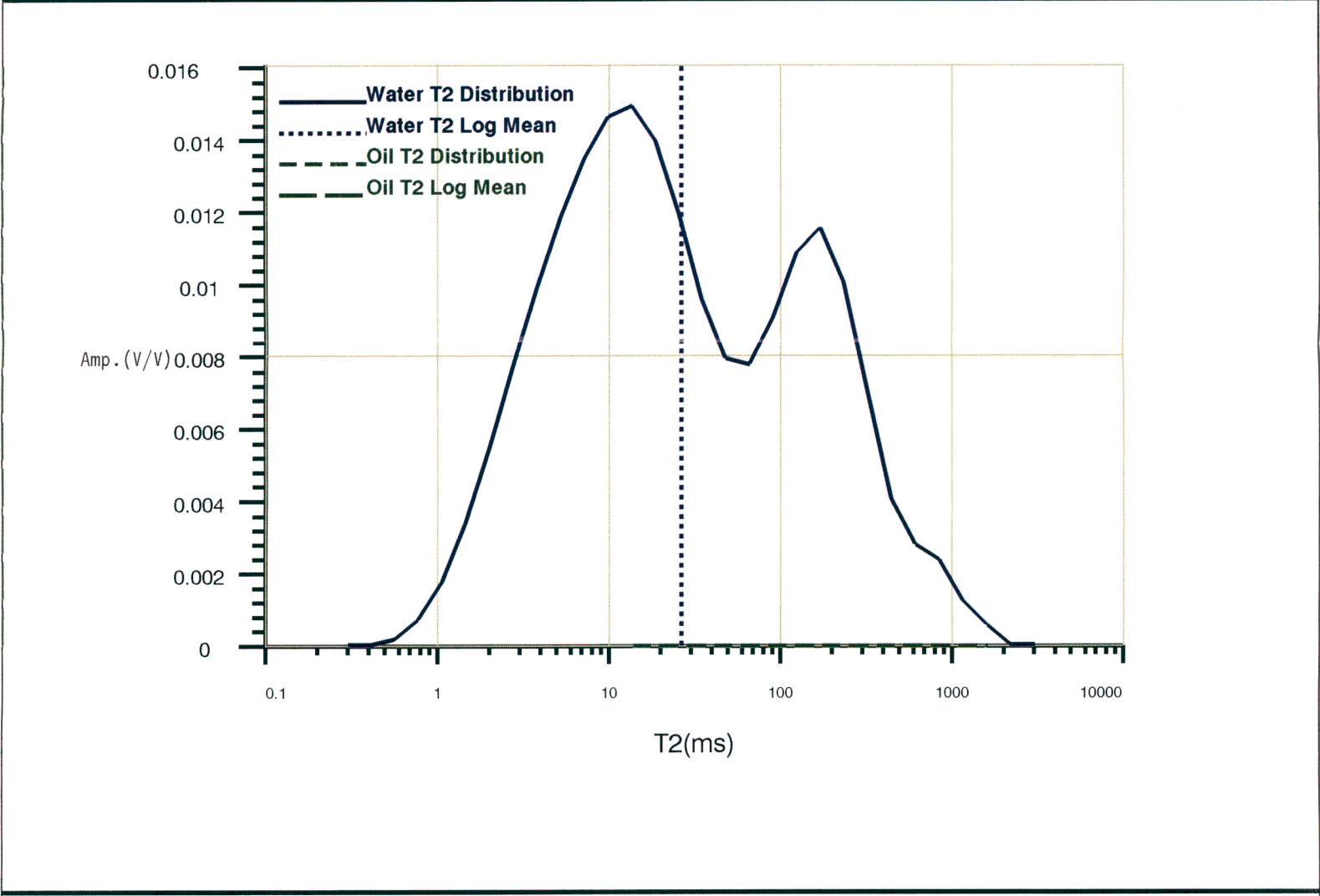
DEPTH(M): 500.508

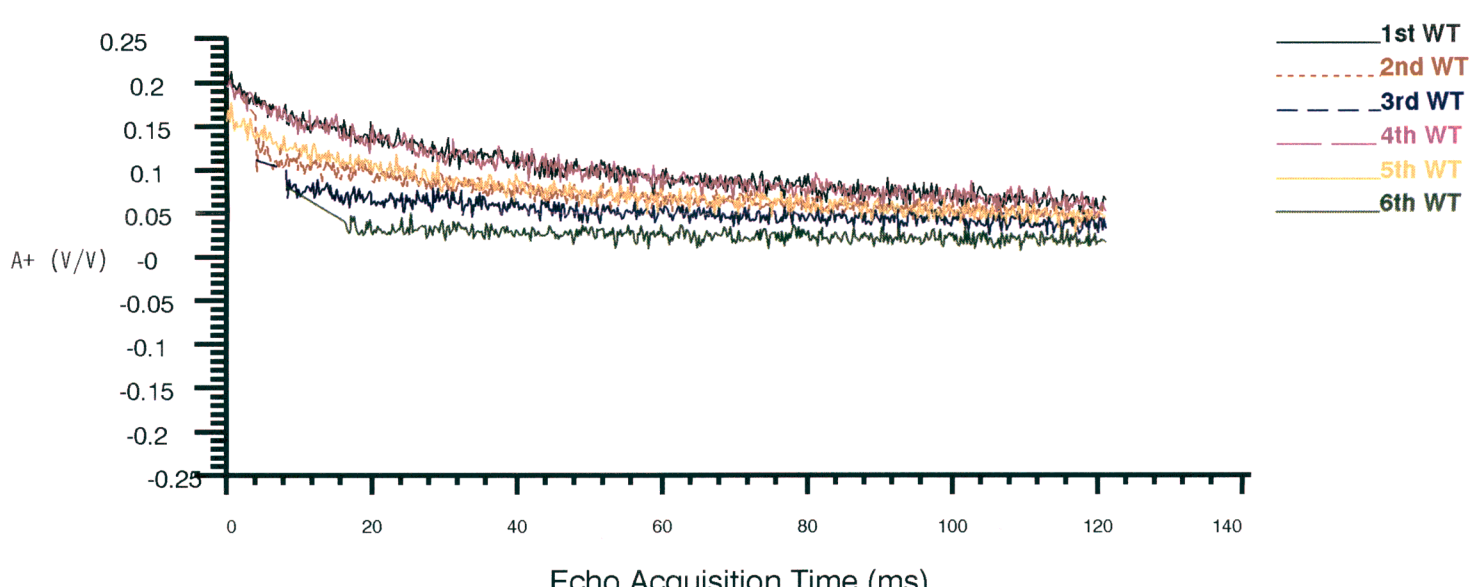
PARAMETER SUMMARY

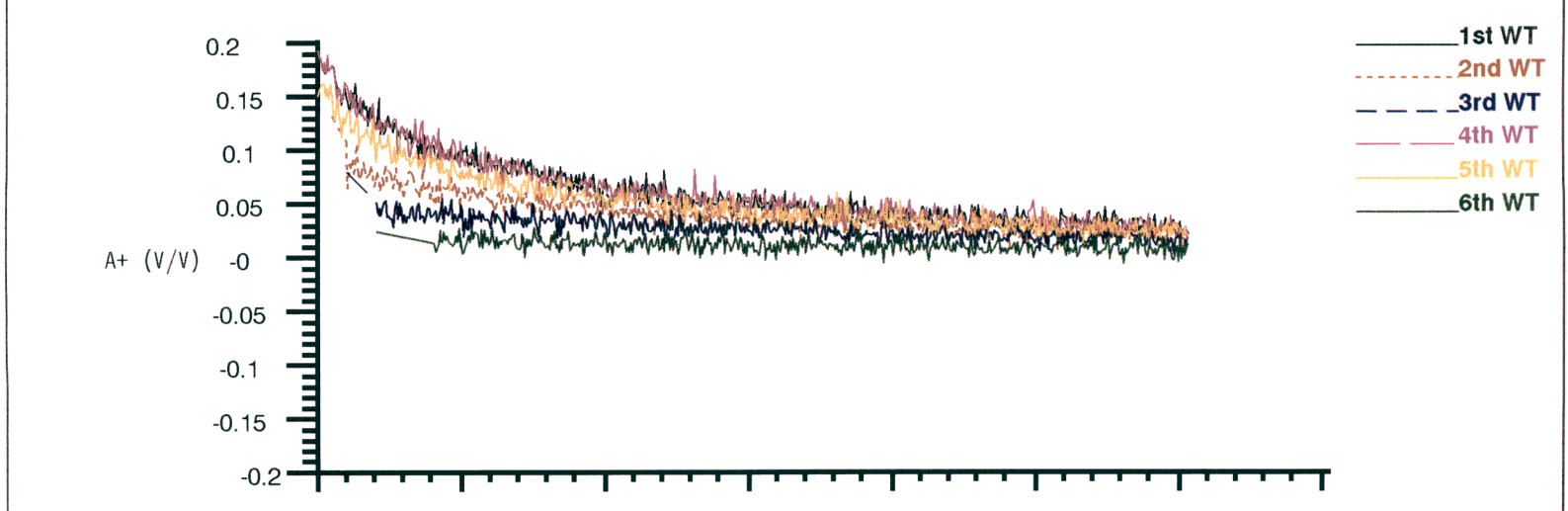
Tool Type: CMR-Plus	Cart. Number: 202	Sonde Number: 182	Tuning Mode: ALF
Kit Number: 28	DHC Version : 16.4	DSP Version : 13	SP Version : 9042001
Mode: Long T1 MRF-DE Station Log		LFST Freq(khz) : 2180	LFST Temp(deg) : 28.98
Log Direction: Station	Polarization Correction: Off	EPM: No	
Echo Spacing(us):	(200 2000 4000 200 200 8000)		
Polarization Time(sec):	(13 3 3 3 1 3)		
Number of Echoes:	(5000 1800 1800 3000 1800 900)		
Repetition:	(1 1 1 1 1 1)	Duty Cycle (highest): 0.0323	
Regularization:	(1 1 1 1 1 1)		
For Water:	Number of Components: 30	T2 Min(msec): 0.3	T2 Max(msec): 3000
For Oil:	Number of Components: 14	T2 Min(msec): 14	T2 Max(msec): 1590
T2 Cutoff(msec): 33	Downhole Stacking: 0	Uphole Stacking: 1	First Echo Used: No
Multiple T2 Cutoffs(msec):	(0.3 1 3 10 33 100 300 1000 3000)		T1 of Gas (sec): 4.000
Update Int.(sec): 58	Oil Diffusion/T2 Factor: 1.000		Gas Diff(e-4cm2/S): 8.000

MRF ANALYSIS RESULT

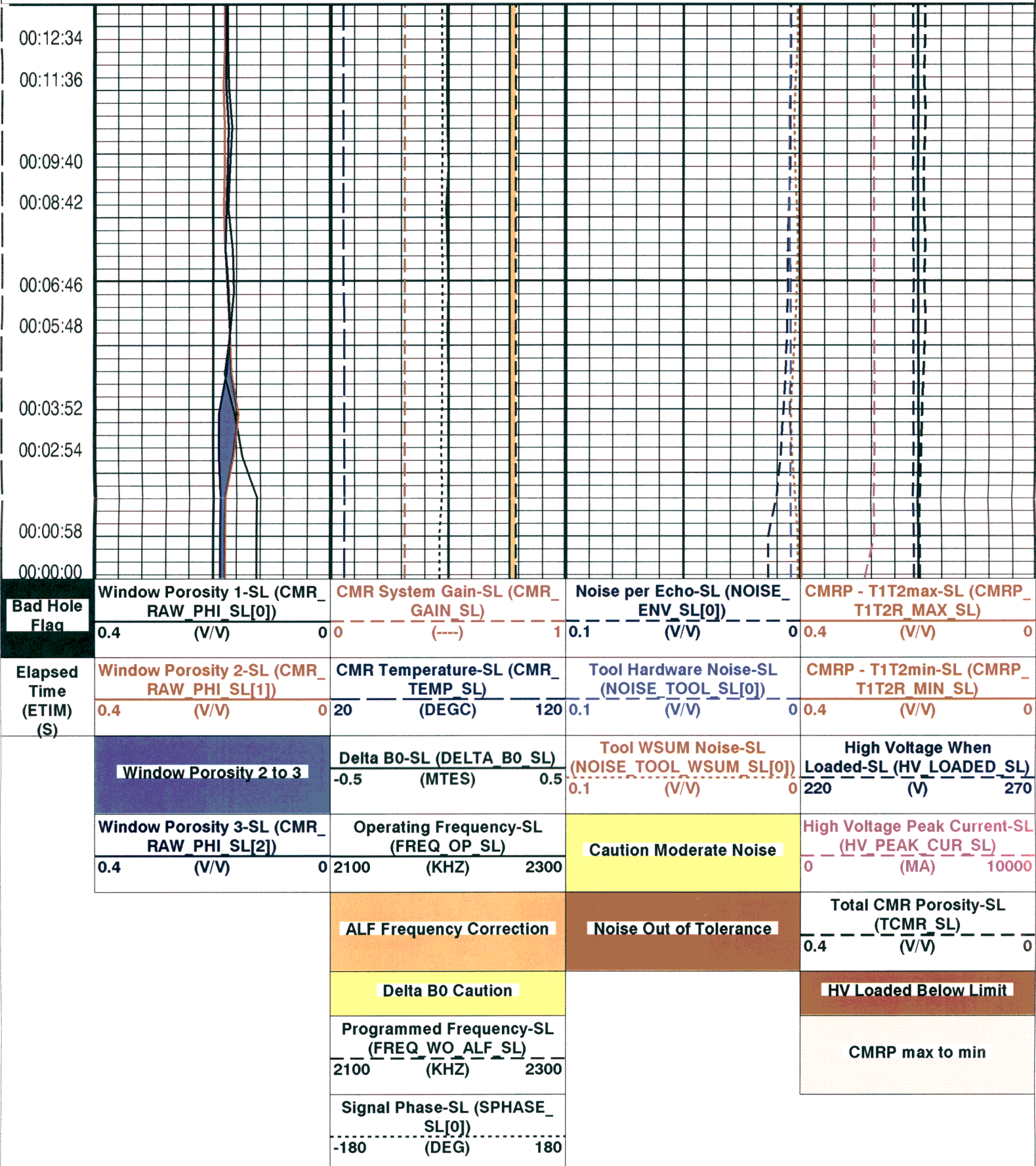
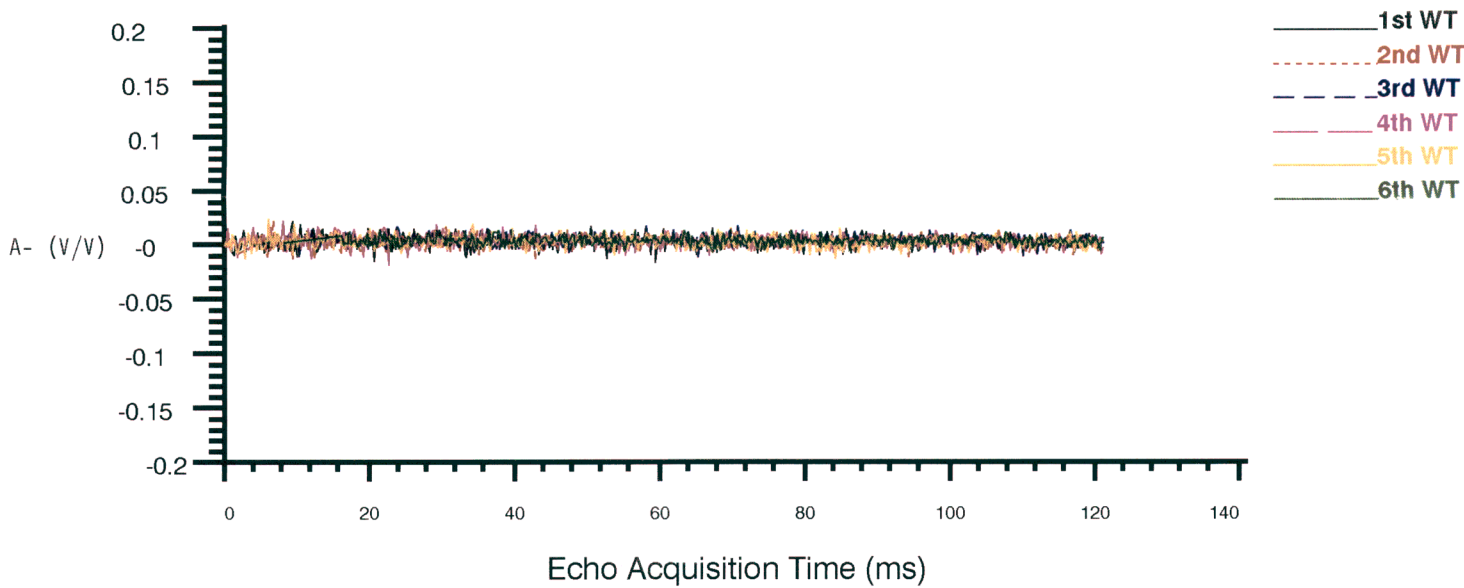
Water Volume(V/V): 0.194	Oil Volume(V/V): 0.000	Gas Volume(V/V): 0.000	OBMF Volume(V/V): 0.000
Water Saturation(V/V): 0.999	Oil Saturation(V/V): 0.001	Gas Saturation(V/V): 0.000	OBMF Saturation(V/V): 0.000
Water T2LogMean(ms): 26.949			TCMR Porosity(V/V): 0.194
Free Water(V/V): 0.082	Bound Water(V/V): 0.112	Computed T1/T2: 2.811	
Temperature(deg): 24.573	SDR Perm. (mD): 4.116e+000	Tmr/Cts Perm. (mD): 7.710e+000	
Signal to Noise Ratio:	(53.9 38.4 30.9 48.4 41.7 15.0)		
Fluid Model:Water,Oil	R Square Values of the Fits:	(0.994 0.878 0.411 0.992 0.979 0.000 , 0.953)	
Fluid Model:Water	R Square Values of The Fits:	(0.994 0.877 0.408 0.992 0.979 0.000 , 0.953)	







Echo Acquisition Time (ms)



PIP SUMMARY

Time Mark Every 60 S					
Format: CMRT_LQC_STATION_LOG		Vertical Scale: 1" per 180S		Graphics File Created: 18-Mar-2008 20:09	
OP System Version: 15C0-309					
MCM					
HILTH-FTB	SRPC-3402-Q3_2007	CMRT-B	15C0-309		
PPC1-B	15C0-309	SGT-N	15C0-309		
DTC-H	15C0-309				
Output DLIS Files					
DEFAULT	TLD_MCFL_CNL_CMR_073LTP	FN:121	PRODUCER	18-Mar-2008 20:09	
BACKUP	TLD_MCFL_CNL_CMR_073LTP	FN:122	PRODUCER	18-Mar-2008 20:09	

Company: HUSKY OIL OPERATIONS LIMITED				Well: HUSKY et al KEELE RIVER L-52		
Output DLIS Files						
DEFAULT	TLD_MCFL_CNL_CMR_072LTP	FN:119	PRODUCER	18-Mar-2008 19:56	551.3 M	1.6 M
BACKUP	TLD_MCFL_CNL_CMR_072LTP	FN:120	PRODUCER	18-Mar-2008 19:56	551.3 M	1.6 M

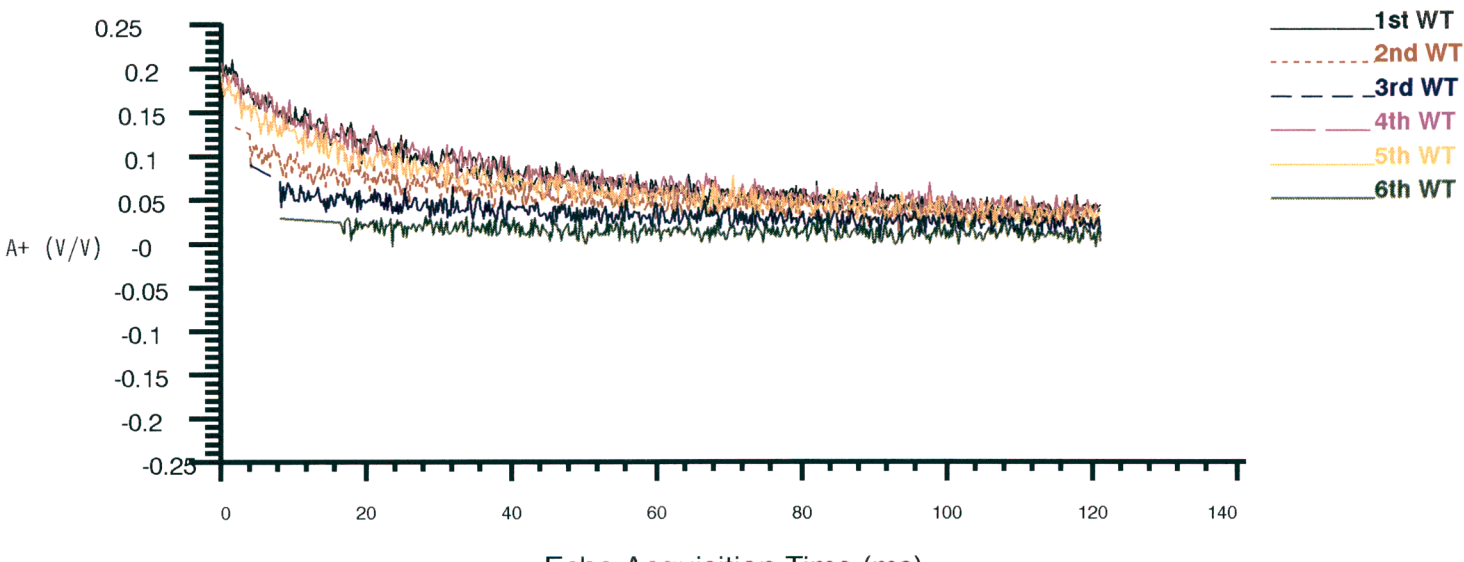
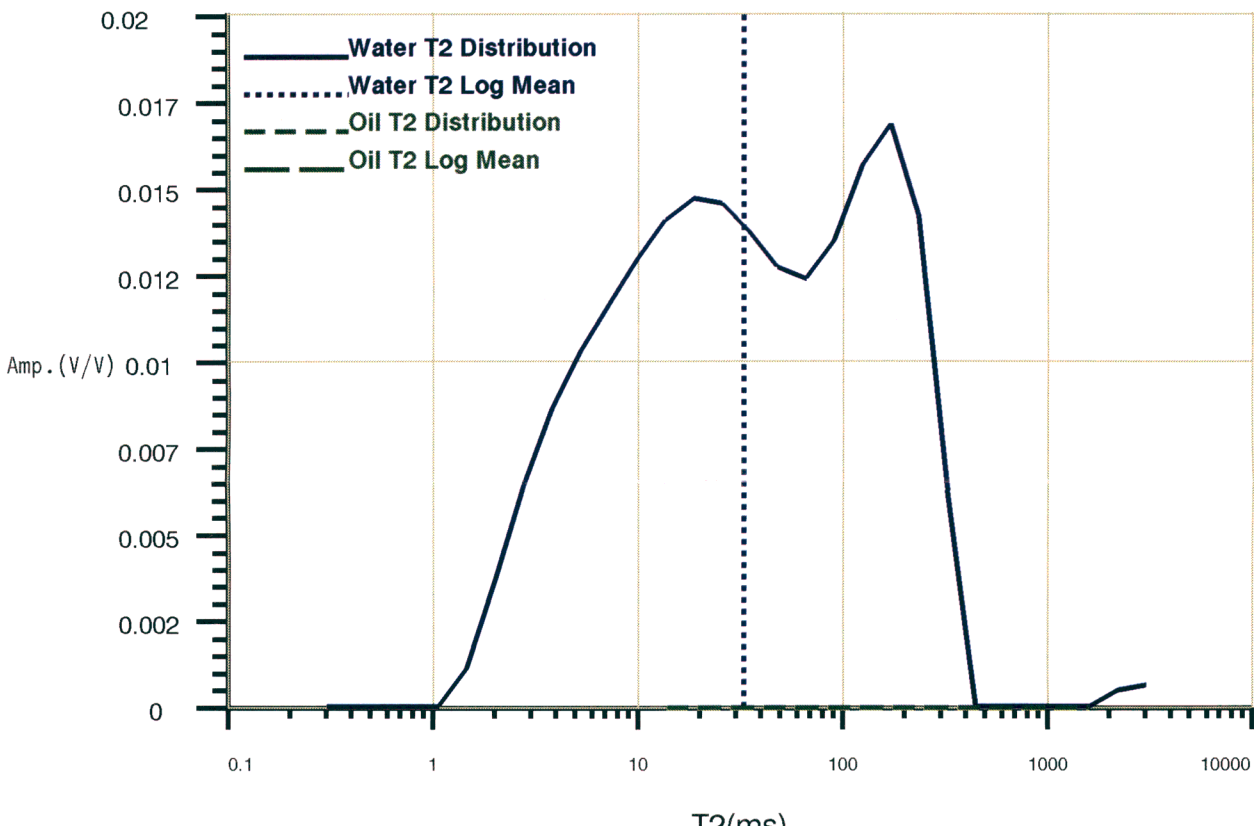
CMR STATION LOG REPORT DEPTH(M): 543.988

PARAMETER SUMMARY

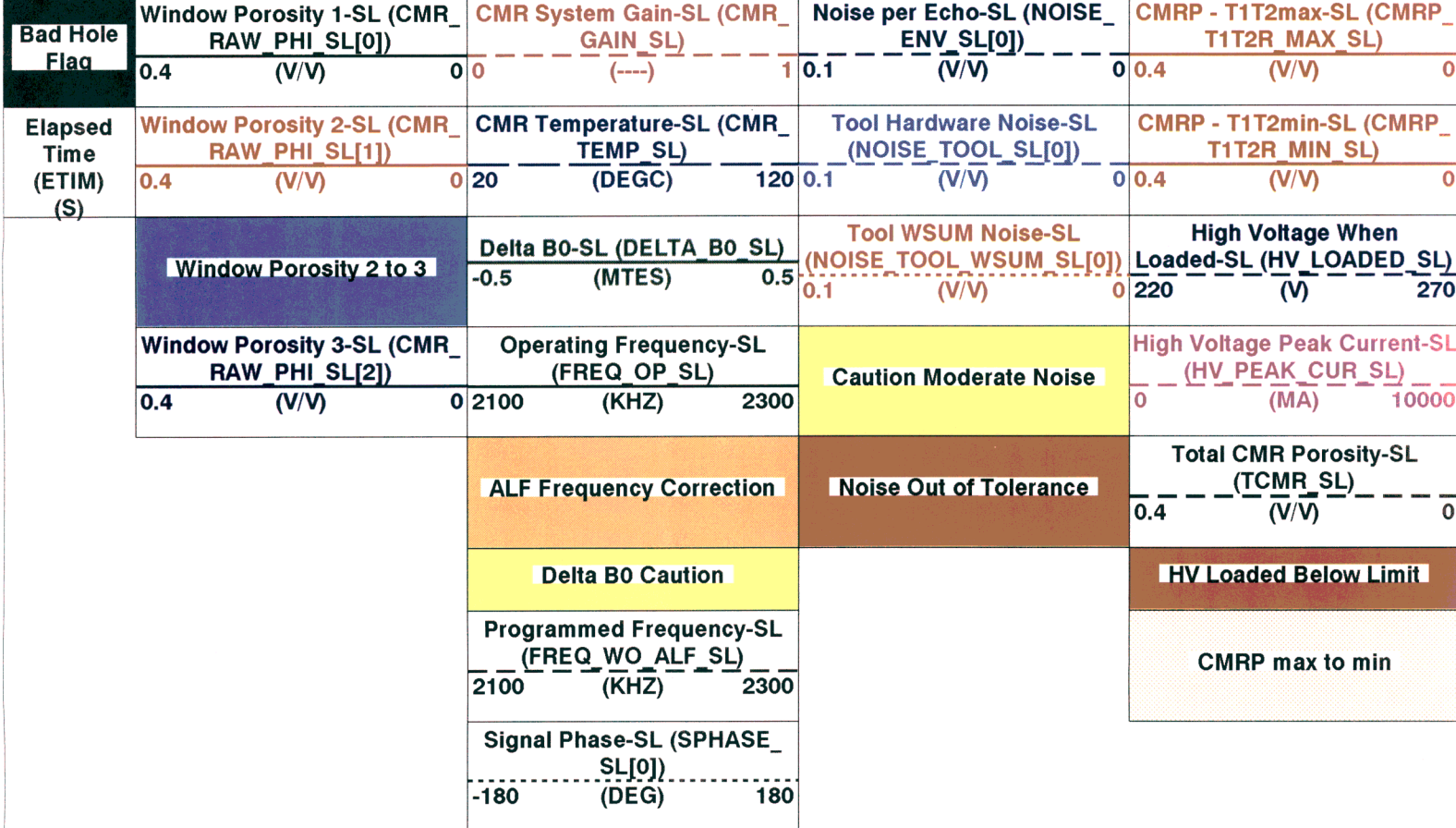
Tool Type: CMR-Plus	Cart. Number: 202	Sonde Number: 182	Tuning Mode: ALF
Kit Number: 28	DHC Version : 16.4	DSP Version : 13	SP Version : 9042001
Mode: Long T1 MRF-DE Station Log		LFST Freq(khz) : 2180	LFST Temp(degc) : 28.98
Log Direction: Station	Polarization Correction: Off	EPM: No	
Echo Spacing(us):	(200 2000 4000 200 200 8000)		
Polarization Time(sec):	(13 3 3 3 1 3)		
Number of Echoes:	(5000 1800 1800 3000 1800 900)		
Repetition:	(1 1 1 1 1 1)	Duty Cycle (highest): 0.0323	
Regularization:	(1 1 1 1 1 1)		
For Water:	Number of Components: 30	T2 Min(msec): 0.3	T2 Max(msec): 3000
For Oil:	Number of Components: 14	T2 Min(msec): 14	T2 Max(msec): 1590
T2 Cutoff(msec): 33	Downhole Stacking: 0	Uphole Stacking: 1	First Echo Used: No
Multiple T2 Cutoffs(msec):	(0.3 1 3 10 33 100 300 1000 3000)		T1 of Gas (sec): 4.000
Update Int.(sec): 58	Oil Diffusion/T2 Factor: 1.000		Gas Diff(e-4cm2/S): 8.000

MRF ANALYSIS RESULT

Water Volume(V/V): 0.204	Oil Volume(V/V): 0.000	Gas Volume(V/V): 0.000	OBMF Volume(V/V): 0.000
Water Saturation(V/V): 1.000	Oil Saturation(V/V): 0.000	Gas Saturation(V/V): 0.000	OBMF Saturation(V/V): 0.000
Water T2LogMean(ms): 32.906			TCMR Porosity(V/V): 0.204
Free Water(V/V): 0.103	Bound Water(V/V): 0.101	Computed T1/T2: 2.311	
Temperature(degc): 25.366	SDR Perm. (mD): 7.501e+000	Tmr/Cts Perm. (mD): 1.814e+001	
Signal to Noise Ratio:	(35.4 25.6 16.2 34.5 31.5 5.2)		
Fluid Model:Water,Oil	R Square Values of the Fits:	(0.992 0.747 0.000 0.993 0.978 0.000 , 0.901)	
Fluid Model:Water	R Square Values of The Fits:	(0.992 0.746 0.000 0.993 0.978 0.000 , 0.901)	



Echo Acquisition Time (ms)



Time Mark Every 60 S

Format: GMP, LOG, STATION, LOG Vertical Scale: 1" per 100' Graphics File Created: 18 Mar 2008 10:40

[illegible]

MCM

15C0-309	15C0-309	15C0-309	15C0-309
DTC-H	15C0-309	15C0-309	15C0-309

Output Data File

Company: HOOKY STE OPERATIONS LIMITED Wm. HOOKY Street REELE RIVER EZE

Output Data Files

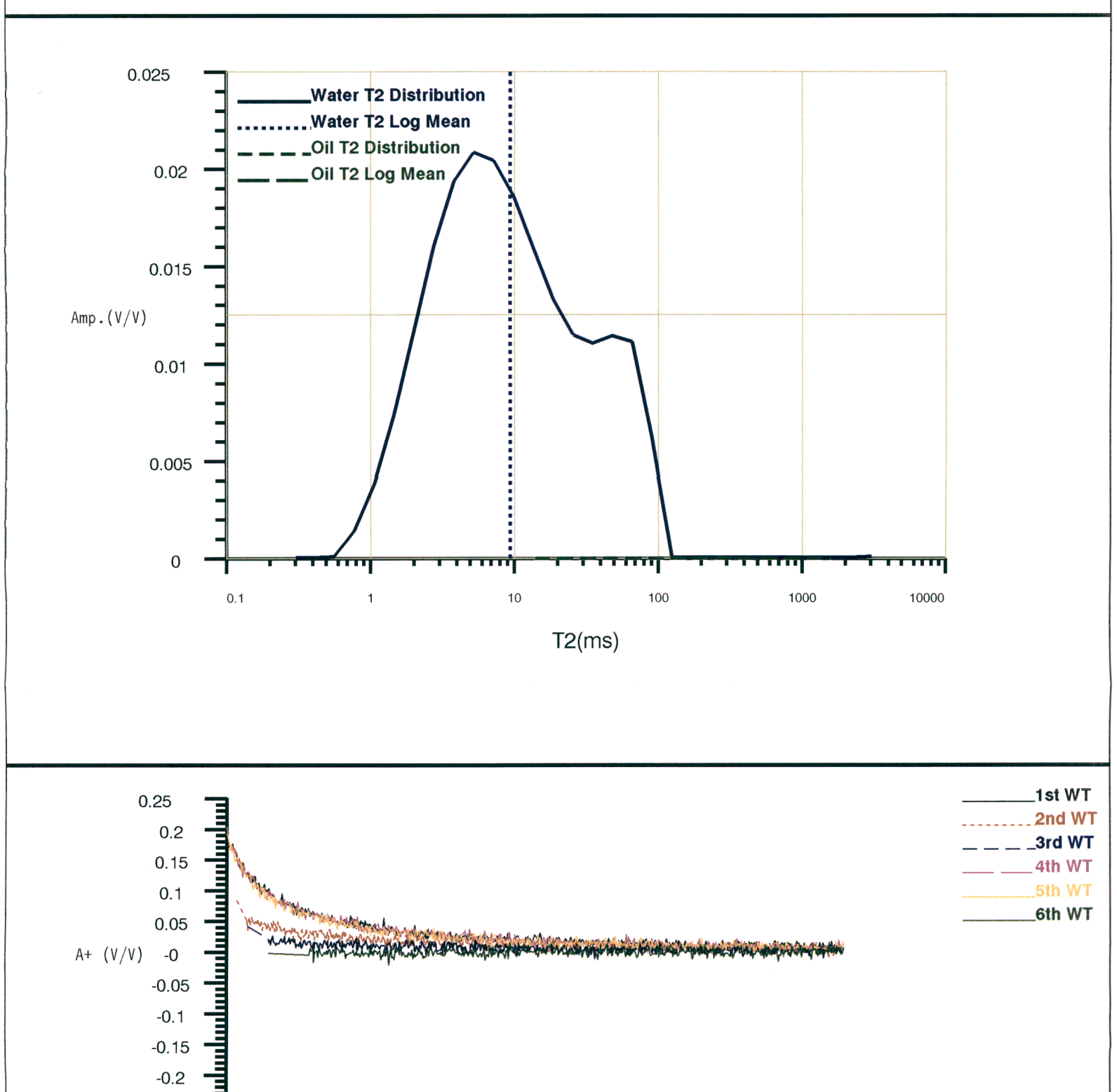
BACKST	RED_MOLE_ONE_GMM_070211	PRINTED	PRODUCED	10 MAR 2008 10:10	070211	011
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PARAMETER SUMMARY

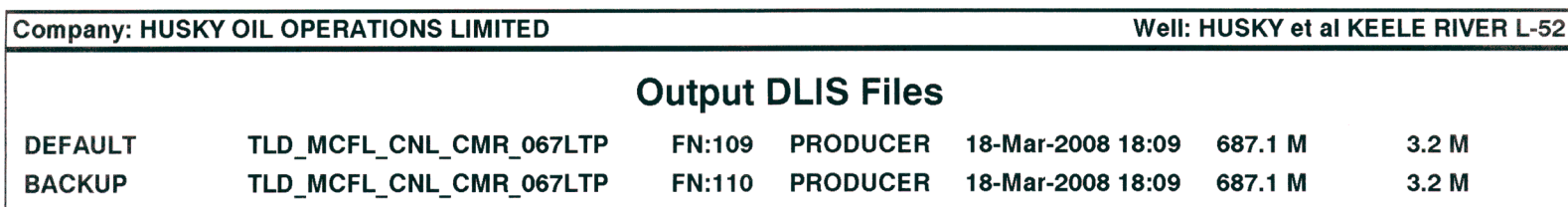
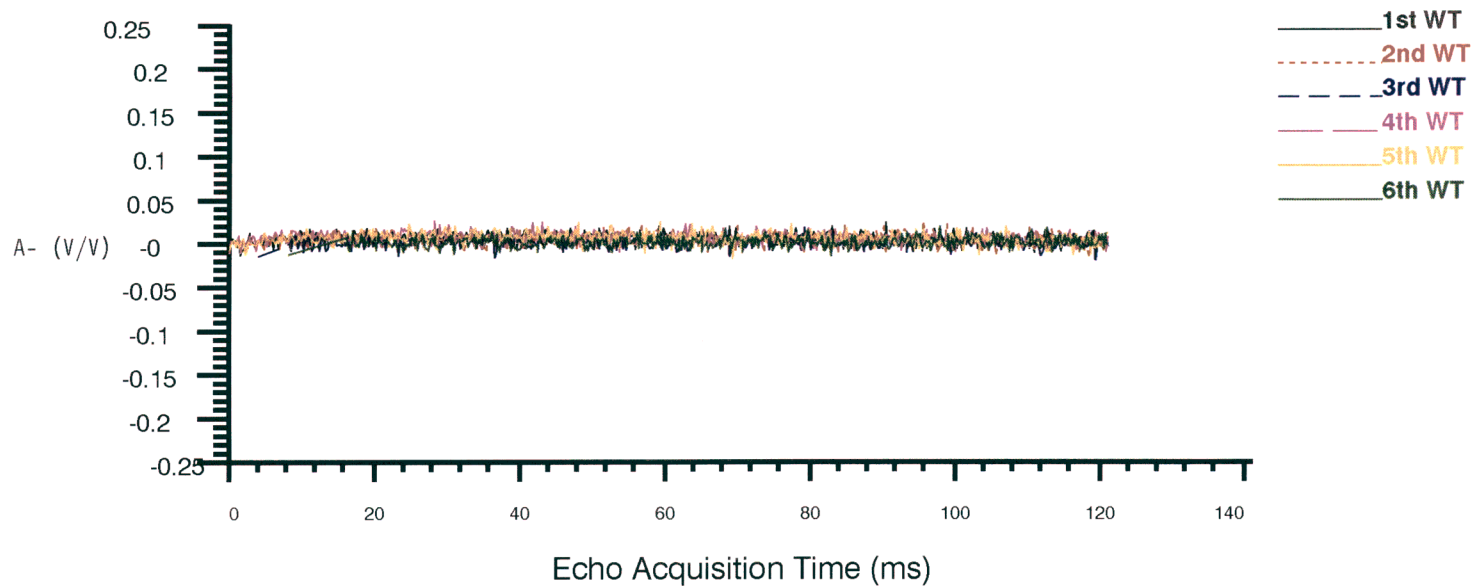
Log Direction: Station	Polarization Correction: Off	EPM: No
Echo Spacing(us):	(200 2000 4000 200 200 8000)	
Polarization Time(sec):	(13 3 3 3 1 3)	
Number of Echoes:	(5000 1800 1800 3000 1800 900)	
Repetition:	(1 1 1 1 1 1)	Duty Cycle (highest): 0.0323
Regularization:	(1 1 1 1 1 1)	

Water Volume(V/V): 0.175	Oil Volume(V/V): 0.000	Gas Volume(V/V): 0.000	OBMF Volume(V/V): 0.000
Water Saturation(V/V): 1.000	Oil Saturation(V/V): 0.000	Gas Saturation(V/V): 0.000	OBMF Saturation(V/V): 0.000
Water T2LogMean(ms): 15.471			TCMR Porosity(V/V): 0.175
Free Water(V/V): 0.057	Bound Water(V/V): 0.118	Computed T1/T2: 0.854	
Temperature(degC): 25.925	SDR Perm. (mD): 8.941e-001	Tmr/Cts Perm. (mD): 2.204e+000	
Signal to Noise Ratio:	(31.1 20.4 10.4 31.5 28.3 2.8)		
Fluid Model:Water,Oil	R Square Values of the Fits:	(0.996 0.450 0.000 0.996 0.998 0.000 , 0.907)	
Fluid Model:Water	R Square Values of The Fits:	(0.996 0.447 0.000 0.996 0.998 0.000 , 0.907)	



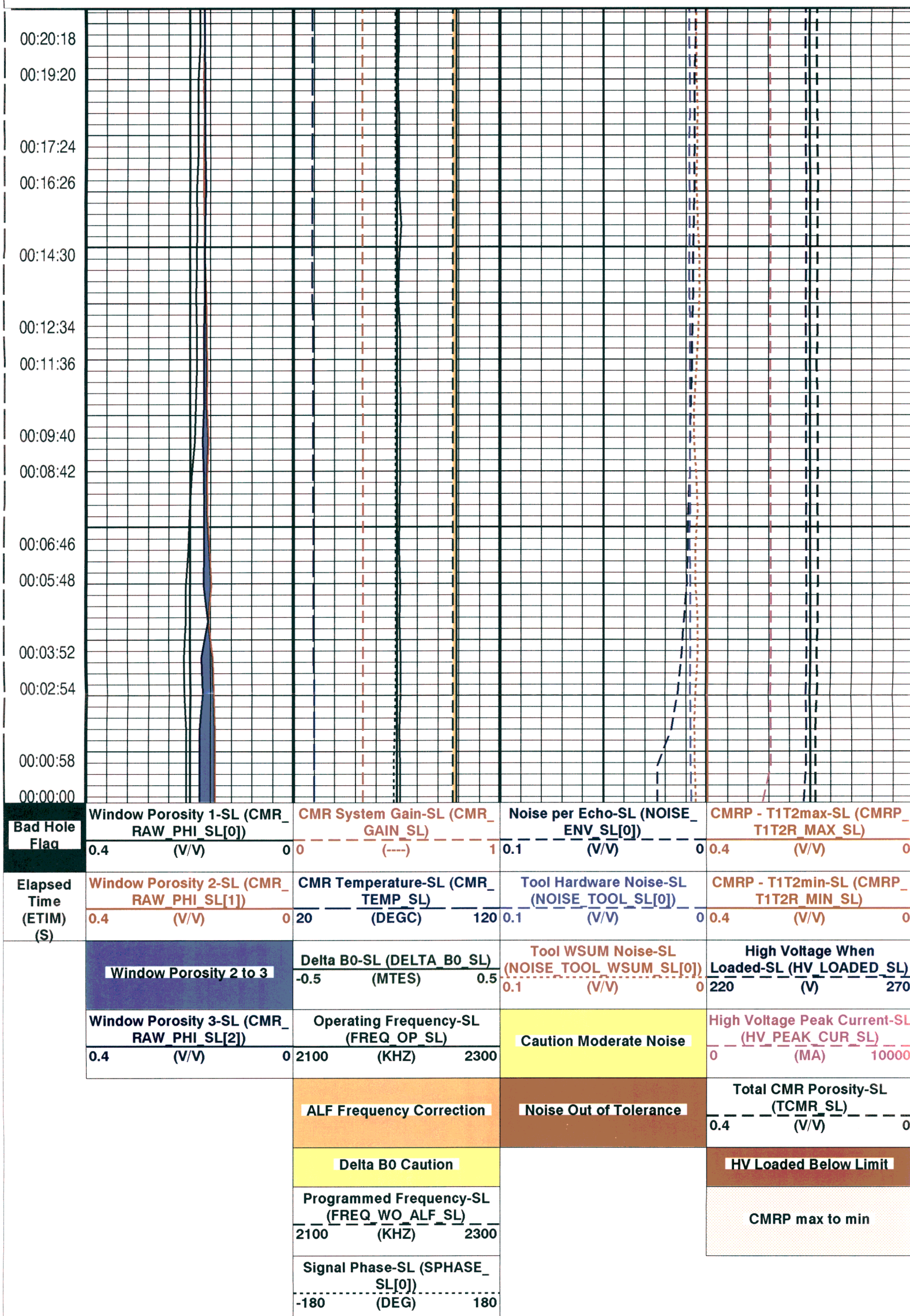
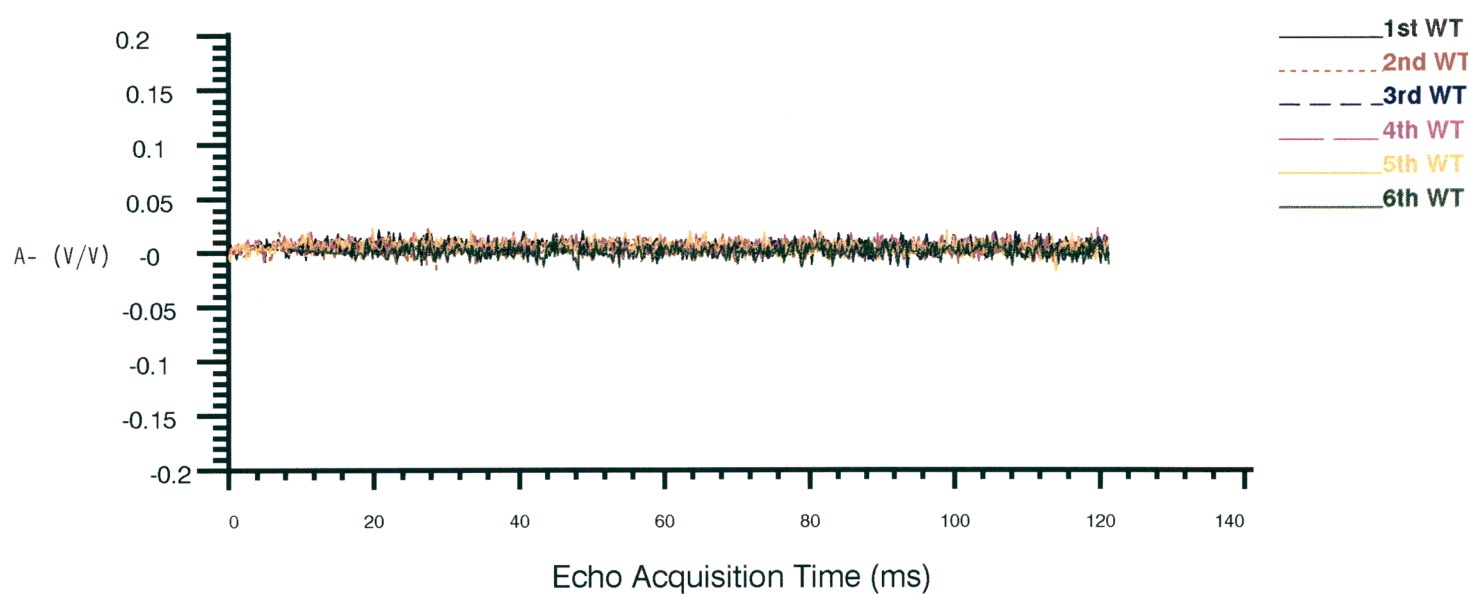






The figure is a semi-log plot showing the amplitude of the NMR signal (in V/V) as a function of the transverse relaxation time T_2 (in ms). The x-axis is logarithmic, ranging from 0.1 ms to 10,000 ms. The y-axis is linear, ranging from 0 to 0.02 V/V. The plot displays four data series: Water T_2 Distribution (solid line), Water T_2 Log Mean (dotted line), Oil T_2 Distribution (dashed line), and Oil T_2 Log Mean (dash-dot line). The Water distribution shows a broad peak centered around 10 ms, while the Oil distribution is nearly flat, indicating a much lower signal amplitude.

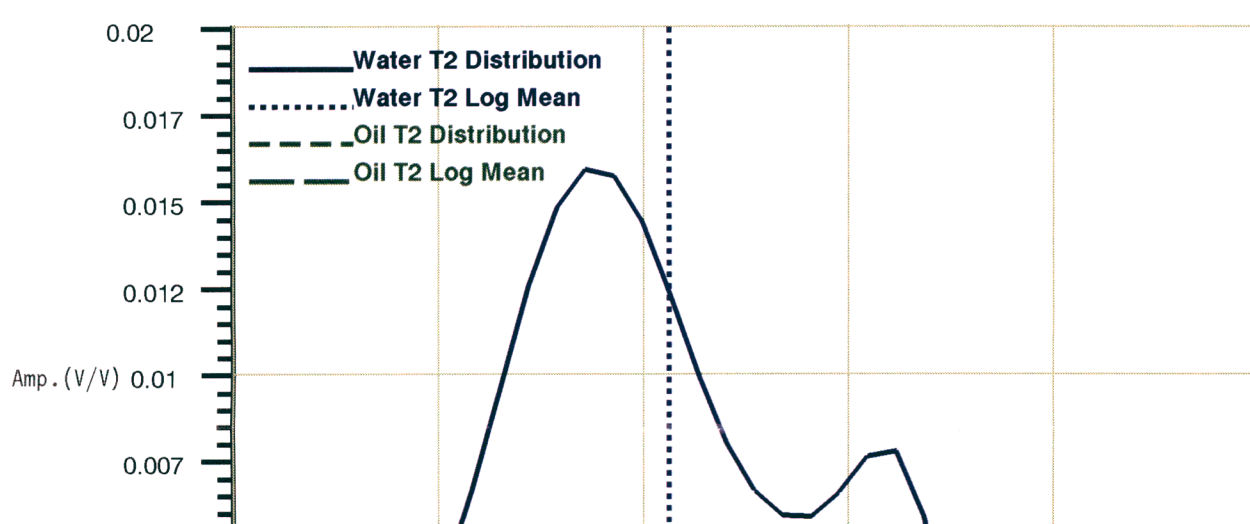
T_2 (ms)	Water T_2 Distribution (V/V)	Water T_2 Log Mean (V/V)	Oil T_2 Distribution (V/V)	Oil T_2 Log Mean (V/V)
0.1	0.000	0.000	0.000	0.000
1	0.000	0.000	0.000	0.000
10	0.016	0.000	0.000	0.000
20	0.014	0.018	0.000	0.000
100	0.008	0.000	0.000	0.000
1000	0.000	0.000	0.000	0.000
10000	0.000	0.000	0.000	0.000

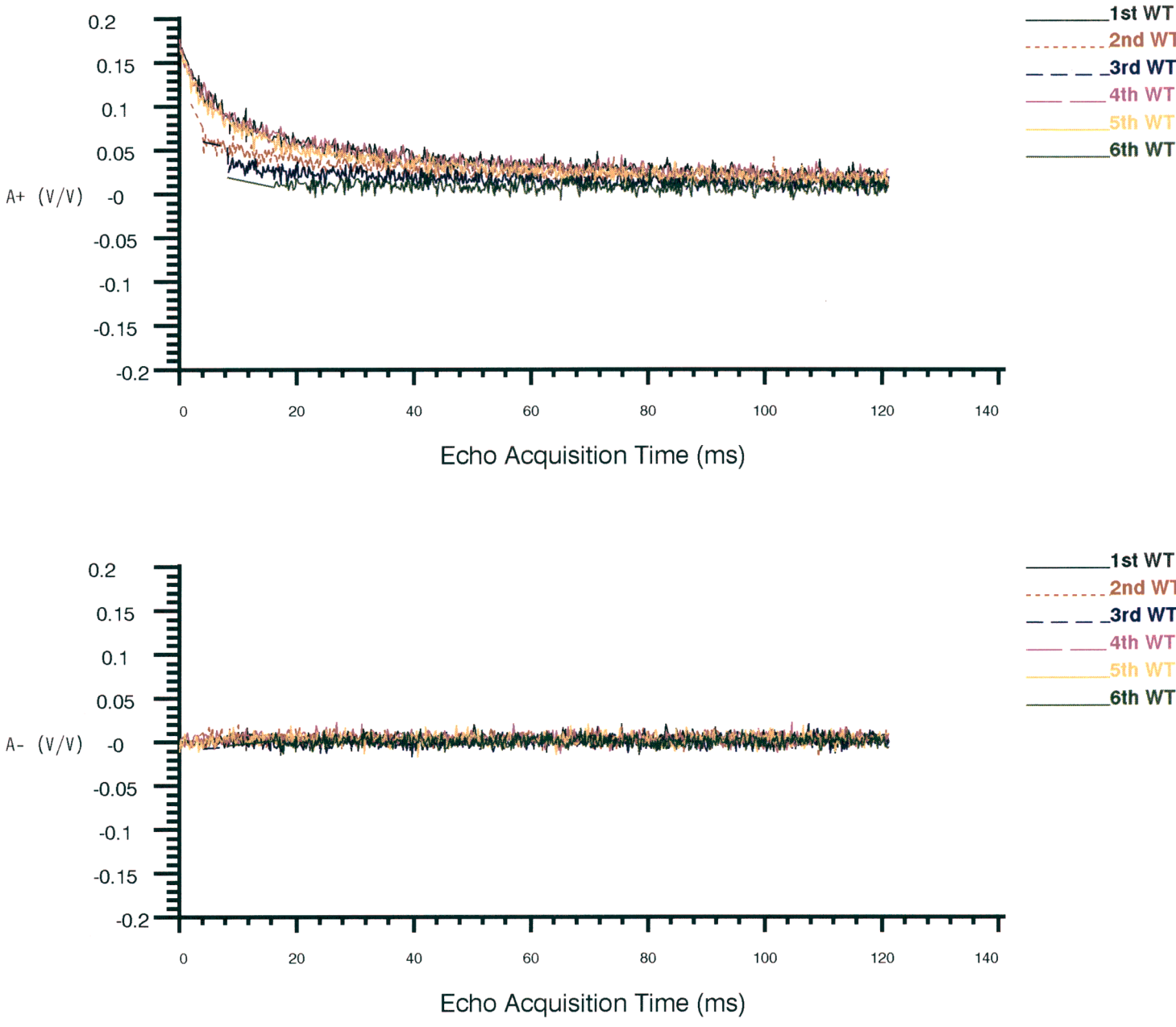


PIP SUMMARY						
Time Mark Every 60 S						
Format: CMRT_LQC_STATION_LOG		Vertical Scale: 1" per 180S		Graphics File Created: 18-Mar-2008 18:09		
OP System Version: 15C0-309						
MCM						
HILTH-FTB	SRPC-3402-Q3_2007	CMRT-B	15C0-309			
PPC1-B	15C0-309	SGT-N	15C0-309			
DTC-H	15C0-309					
Output DLIS Files						
DEFAULT	TLD_MCFL_CNL_CMV_067LTP	FN:109	PRODUCER	18-Mar-2008 18:09		
BACKUP	TLD_MCFL_CNL_CMV_067LTP	FN:110	PRODUCER	18-Mar-2008 18:09		

Company: HUSKY OIL OPERATIONS LIMITED				Well: HUSKY et al KEELE RIVER L-52		
Output DLIS Files						
DEFAULT	TLD_MCFL_CNL_CMV_066LTP	FN:107	PRODUCER	18-Mar-2008 17:37	791.3 M	3.5 M
BACKUP	TLD_MCFL_CNL_CMV_066LTP	FN:108	PRODUCER	18-Mar-2008 17:37	791.3 M	3.5 M

CMR STATION LOG REPORT		DEPTH(M): 784.000	
PARAMETER SUMMARY			
Tool Type: CMR-Plus		Cart. Number: 202	Sonde Number: 182
Kit Number: 28		DHC Version : 16.4	DSP Version : 13
Mode: Long T1 MRF-DE Station Log		LFST Freq(khz) : 2180	Tuning Mode: ALF
			SP Version : 9042001
			LFST Temp(degC) : 28.98
Log Direction: Station	Polarization Correction: Off	EPM: No	
Echo Spacing(us):	(200 2000 4000 200 200 8000)		
Polarization Time(sec):	(13 3 3 3 1 3)		
Number of Echoes:	(5000 1800 1800 3000 1800 900)		
Repetition:	(1 1 1 1 1 1)	Duty Cycle (highest): 0.0323	
Regularization:	(1 1 1 1 1 1)		
For Water:	Number of Components: 30	T2 Min(msec): 0.3	T2 Max(msec): 3000
For Oil:	Number of Components: 14	T2 Min(msec): 14	T2 Max(msec): 1590
T2 Cutoff(msec): 33	Downhole Stacking: 0	Uphole Stacking: 1	First Echo Used: No
Multiple T2 Cutoffs(msec):	(0.3 1 3 10 33 100 300 1000 3000)		T1 of Gas (sec): 4.000
Update Int.(sec): 58	Oil Diffusion/T2 Factor: 1.000		Gas Diff(e-4cm2/S): 8.000
MRF ANALYSIS RESULT			
Water Volume(V/V): 0.179	Oil Volume(V/V): 0.000	Gas Volume(V/V): 0.000	OBMF Volume(V/V): 0.000
Water Saturation(V/V): 1.000	Oil Saturation(V/V): 0.000	Gas Saturation(V/V): 0.000	OBMF Saturation(V/V): 0.000
Water T2LogMean(ms): 13.461			TCMR Porosity(V/V): 0.179
Free Water(V/V): 0.050	Bound Water(V/V): 0.129	Computed T1/T2: 2.491	
Temperature(degC): 29.634	SDR Perm. (mD): 7.374e-001	Tmr/Cts Perm. (mD): 1.540e+000	
Signal to Noise Ratio:	(30.0 16.8 10.7 27.4 28.6 2.7)		
Fluid Model:Water,Oil	R Square Values of the Fits:	(0.997 0.499 0.000 0.994 0.997 0.000 , 0.937)	
Fluid Model:Water	R Square Values of The Fits:	(0.997 0.499 0.000 0.994 0.997 0.000 , 0.937)	





Neutron Calibration Tank Gamma Source Radioactive				NCT - B 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				0.7423		Before				0.4892		Before				0.2973	
0.7048 (Minimum)		0.7419 (Nominal)		0.7790 (Maximum)		0.4634 (Minimum)		0.4878 (Nominal)		0.5122 (Maximum)		0.2847 (Minimum)		0.2996 (Nominal)		0.3146 (Maximum)	
Phase		BS Window Sum CPS		Value		Phase		SS Window Sum CPS		Value		Phase		LS Window Sum CPS		Value	
Before				29940		Before				12820		Before				1518	
28460 (Minimum)		29960 (Nominal)		31460 (Maximum)		12170 (Minimum)		12820 (Nominal)		13460 (Maximum)		1445 (Minimum)		1521 (Nominal)		1597 (Maximum)	
Before: 13-Mar-2008 9:04																	
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				1391		Before				1313		Before				1257	
1278 (Minimum)		1378 (Nominal)		1478 (Maximum)		1204 (Minimum)		1304 (Nominal)		1404 (Maximum)		1145 (Minimum)		1245 (Nominal)		1345 (Maximum)	
Before: 13-Mar-2008 9:04																	
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				10.63		Before				9.028		Before				8.091	
9.620 (Minimum)		10.62 (Nominal)		11.62 (Maximum)		8.272 (Minimum)		9.272 (Nominal)		10.27 (Maximum)		7.109 (Minimum)		8.109 (Nominal)		9.109 (Maximum)	
Before: 13-Mar-2008 9:04																	
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				3887		Before				3837		Before				3839	
3565 (Minimum)		3875 (Nominal)		4185 (Maximum)		3524 (Minimum)		3830 (Nominal)		4136 (Maximum)		3524 (Minimum)		3830 (Nominal)		4136 (Maximum)	
Before: 13-Mar-2008 8:56																	
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				186.1		Before				298.8							
152.4 (Minimum)		203.2 (Nominal)		254.0 (Maximum)		228.6 (Minimum)		304.8 (Nominal)		381.0 (Maximum)							
Before: 13-Mar-2008 8:57																	
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				10.53		Before				172.4		Before				167.0	
0 (Minimum)		30.00 (Nominal)		120.0 (Maximum)		156.7 (Minimum)		172.4 (Nominal)		188.1 (Maximum)		152.0 (Minimum)		167.0 (Nominal)		182.0 (Maximum)	
Before: 13-Mar-2008 9:01																	
High resolution Integrated Logging Tool-DTS Wellsite Calibration																	
Zero Measurement																	
Phase		CNTC Background CPS		Value		Phase		CFTC Background CPS		Value							
Master				26.64		Master				26.42							
Before				26.13		Before				25.85							
5.000 (Minimum)		26.64 (Nominal)		40.00 (Maximum)		5.000 (Minimum)		26.42 (Nominal)		40.00 (Maximum)							
Master: 15-Jan-2008 15:00						Before: 13-Mar-2008 9:01											
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				6123		Master				2592		Master				2.362	
4700 (Minimum)		5800 (Nominal)		6900 (Maximum)		1900 (Minimum)		2400 (Nominal)		2900 (Maximum)		2.120 (Minimum)		2.159 (Nominal)		2.540 (Maximum)	
Master: 15-Jan-2008 15:00																	
High resolution Integrated Logging Tool-DTS Wellsite Calibration																	
Accelerometer Calibration																	
Phase		Z-Axis Acceleration M/S2		Value													
Before				9.809													
9.610 (Minimum)		9.810 (Nominal)		10.01 (Maximum)													
Before: 17-Mar-2008 2:22																	
High resolution Integrated Logging Tool-DTS Master Calibration																	
Inversion results																	
Phase		Rho Aluminum K/M3		Value		Phase		Rho Magnesium K/M3		Value							
Master				2595		Master				1689							
2586 (Minimum)		2596 (Nominal)		2606 (Maximum)		1676 (Minimum)		1686 (Nominal)		1696 (Maximum)							
Phase		Pe Aluminum		Value		Phase		Pe Magnesium		Value							
Master				2.559		Master				2.612							
2.470 (Minimum)		2.570 (Nominal)		2.670 (Maximum)		2.550 (Minimum)		2.650 (Nominal)		2.750 (Maximum)							
Master: 10-Mar-2008 15:02																	
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				0.5046		Master				0.3721		Master				0.8273	
-0.6000 (Minimum)		0 (Nominal)		0.6000 (Maximum)		-1.000 (Minimum)		0 (Nominal)		1.000 (Maximum)		-1.500 (Minimum)		0 (Nominal)		1.500 (Maximum)	
Phase		BS Max Deviation %		Value		Phase		SS Max Deviation %		Value		Phase		LS Max Deviation %		Value	
Master				1.523		Master				0.9547		Master				1.671	
-1.600 (Minimum)		0 (Nominal)		1.600 (Maximum)		-2.500 (Minimum)		0 (Nominal)		2.500 (Maximum)		-3.500 (Minimum)		0 (Nominal)		3.500 (Maximum)	
Master: 10-Mar-2008 15:02																	
High resolution Integrated Logging Tool-DTS Master Calibration																	
Zero Measurement																	
Phase		CNTC Background CPS		Value		Phase		CFTC Background CPS		Value							
Master				26.64		Master				26.42							
5.000 (Minimum)		26.64 (Nominal)		40.00 (Maximum)		5.000 (Minimum)		26.42 (Nominal)		40.00 (Maximum)							
Master: 15-Jan-2008 15:00																	
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				6123		Master				2592		Master				2.362	
4700 (Minimum)		5800 (Nominal)		6900 (Maximum)		1900 (Minimum)		2400 (Nominal)		2900 (Maximum)		2.120 (Minimum)		2.159 (Nominal)		2.540 (Maximum)	
Master: 15-Jan-2008 15:00																	
Combinable Magnetic Resonance Tool - B / Equipment Identification																	
Primary Equipment:																	
CMR-B Sonde																	
CMR Cartridge																	
CMRS - BA																	
182																	
CMRC - BA																	
202																	
Auxiliary Equipment:																	
Combinable Magnetic Resonance Tool - B Master Calibration																	
Date of Master Calibration: 16-Jan-2008																	
Phase		Tool Temperature MCAL DEGC		Value		Phase		LOOP Measurement MCAL		Value		Phase		Hall Probe B0 MCAL MTES		Value	
Master				17.02		Master				1863		Master				52.77	
10.00 (Minimum)		27.00 (Nominal)		44.00 (Maximum)		1500 (Minimum)		2300 (Nominal)		2900 (Maximum)		50.00 (Minimum)		52.00 (Nominal)		55.00 (Maximum)	
Phase		Cal. Fixture Amplitude MCAL %		Value													
Master				27.91													
25.00 (Minimum)		37.50 (Nominal)		50.00 (Maximum)													
Master: 18-Mar-2008 14:49																	
Scintillation Gamma Ray Tool - N / Equipment Identification																	
Primary Equipment:																	
Scintillation Gamma Cartridge																	
Scintillation Gamma Detector																	
SGC - TB																	
10388																	
SGD - TAB																	
Auxiliary Equipment:																	
Scintillation Gamma Housing																	
Gamma Source Radioactive																	
SGH - K																	
3161																	
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																	
DTC-H Telemetry Cartridge																	
DTCH - A																	
9397																	
DTCH - A																	
9397																	
Auxiliary Equipment:																	
DTCH Telemetry Cartridge Housing																	
ECH - KC																	
10485																	

Company:

HUSKY OIL OPERATIONS LIMITED

Well:

HUSKY et al KEELE RIVER L-52

Field:

NORTH CLOVERLEAF

Province:

NORTHWEST TERRITORIES

MD

MD

