

Schlumberger

Company: APACHE CANADA LTD.

Well: APACHE PARAMOUNT NOGHA B-23

Field: UNDEFINED

Province: NORTHWEST TERRITORIES

COMPENSATED CEMENT

BONG LOG

NEBCOPY

Province: NORTHWEST TERRITORIES
Field: UNDEFINED
Location: UWID: 300B236640125450
Well: APACHE PARAMOUNT NOGHA
Company: APACHE CANADA LTD.

LOCATION	
UWID: 300B236640125450	Elev.: K.B. 315.75 m
LSD: B-23	G.L. 311.27 m
	D.F. 315.45 m
Permanent Datum:	GROUND LEVEL
Log Measured From:	KELLY BUSHING
Drilling Measured From:	KELLY BUSHING
API Serial No.	Latitude: 66 DEG 32'
WID: 1998	Longitude: 125 DEG 49'

Logging Date	18-Mar-2004
Run Number	subsequent
Depth Driller	1476 m
Schlumberger Depth	1453.5 m
Bottom Log Interval	1450 m
Top Log Interval	550 m
Casing Fluid Type	FRAC OIL
Salinity	
Density	700 kg/m3
Fluid Level	
BIT/CASING/TUBING STRING	
Bit Size	216.000 mm
From	
To	
Casing/Tubing Size	177.800 mm
Weight	43.16 kg/m
Grade	
From	
To	
Maximum Recorded Temperatures	
Logger On Bottom	18-Mar-2004 20:10
Unit Number	3052
Location	NORMAN WELLS
Recorded By	FRANK MACEACHERN
Witnessed By	WALTER STOCK

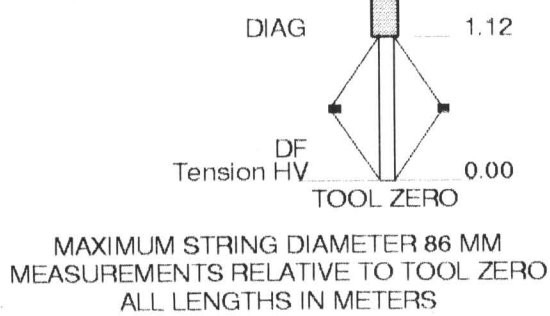
PVT DATA				
Oil Density	Run 1	Run 2	Run 3	Run 4
Water Salinity				
Gas Gravity				
Bw				
1/Bg				
Bubble Point Pressure				
Bubble Point Temperature				
Solution GOR				
Maximum Deviation				
CEMENTING DATA				
Primary/Squeeze	Primary			
Casing String No				
Lead Cement Type				
Volume				
Density				
Water Loss				
Additives				
Tail Cement Type				
Volume				
Density				
Water Loss				
Additives				
Expected Cement Top				
Logging Date				
Run Number				
Depth Driller				
Schlumberger Depth				
Bottom Log Interval				
Top Log Interval				
Casing Fluid Type				
Salinity				
Density				
Fluid Level				
BIT/CASING/TUBING STRING				
Bit Size				
From				
To				
Casing/Tubing Size				
Weight				
Grade				
From				
To				
Maximum Recorded Temperatures				
Logger On Bottom				
Unit Number				
Location				
Recorded By				
Witnessed By				

DISCLAIMER
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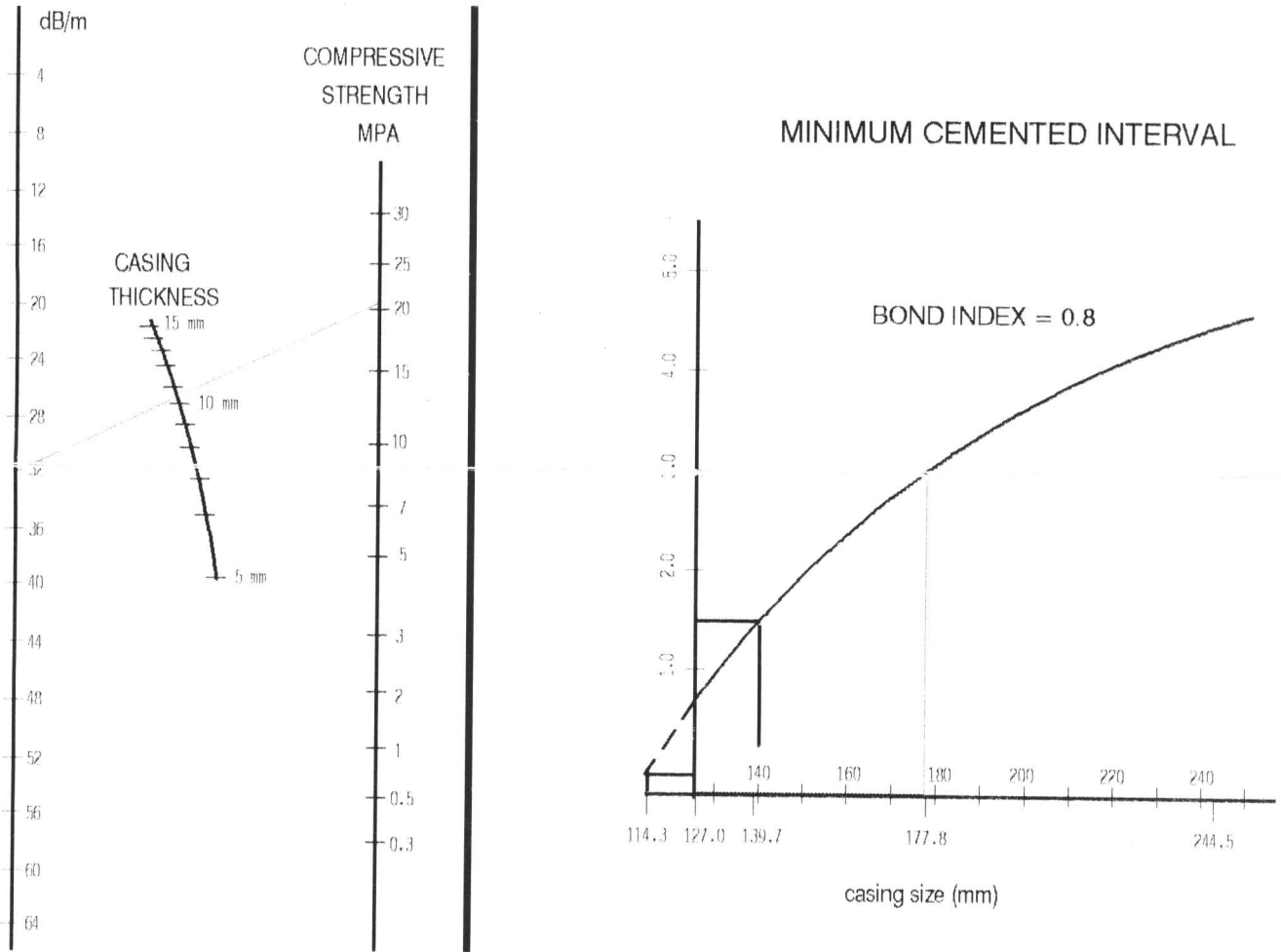
OTHER SERVICES1 OS1: TCP CORRELATION OS2: OS3: OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
REMARKS: RUN NUMBER 1 CORRELATED TO SOC COMPENSATED NEUTRON DATED 15-MAR-2004.	REMARKS: RUN NUMBER 2
CASING DATA: 177.8 MM, 43.16 KG/M LANDED AT 1475 MKB	
CEMENT DATA: CLASS "G"	
BOND TOOL RAN CENTRALIZED.	
POOR BOND. POSSIBLY DUE TO CEMENT NOT FULLY SET UP.	
RIG: NABORS 62 MAX DEV: 0 DEGREES	
RUN 1	RUN 2
SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:	SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:
LOGGED INTERVAL	LOGGED INTERVAL
START	START
STOP	STOP

EQUIPMENT DESCRIPTION

RUN 1		RUN 2	
SURFACE EQUIPMENT			
WDM-AB STM-C GSR-U/Y WITM (CTS)-A			
DOWNHOLE EQUIPMENT			
LEH-QT LEH-QT	12.88		
TCC-BF ECH-KC TCC-BF	11.99		
TelStatus	11.07		
CAL-Y CAL-Y	11.07		
CCL	10.77		
SGT-L SGH-K SGC-SA SGD-TAA	10.01		
Gamma Ray	9.73		
CBT-EB AH-127 CBC-EB ECF-VC CME-AU CBS-DA CME-AT	8.33		
UTR1	3.51		
UTR2	3.25		
UTR3	3.10		
P2R3	2.72		
LTR1	2.57		
LTR2	2.31		
LTR3	2.16		



FIELD INTERPRETATION



$$\text{BOND INDEX} = \frac{\text{ATTENUATION IN ZONE OF INTEREST (dB/m)}}{\text{ATTENUATION IN WELL CEMENTED ZONE (dB/m)}}$$

1.0 BOND INDEX $\Rightarrow$ 32 dB/m

0.8 BOND INDEX $\Rightarrow$ 26 dB/m

HYDRAULIC ISOLATION IN : 177.8 mm CASING

REQUIRES: 3 METERS OF 0.8 BOND INDEX

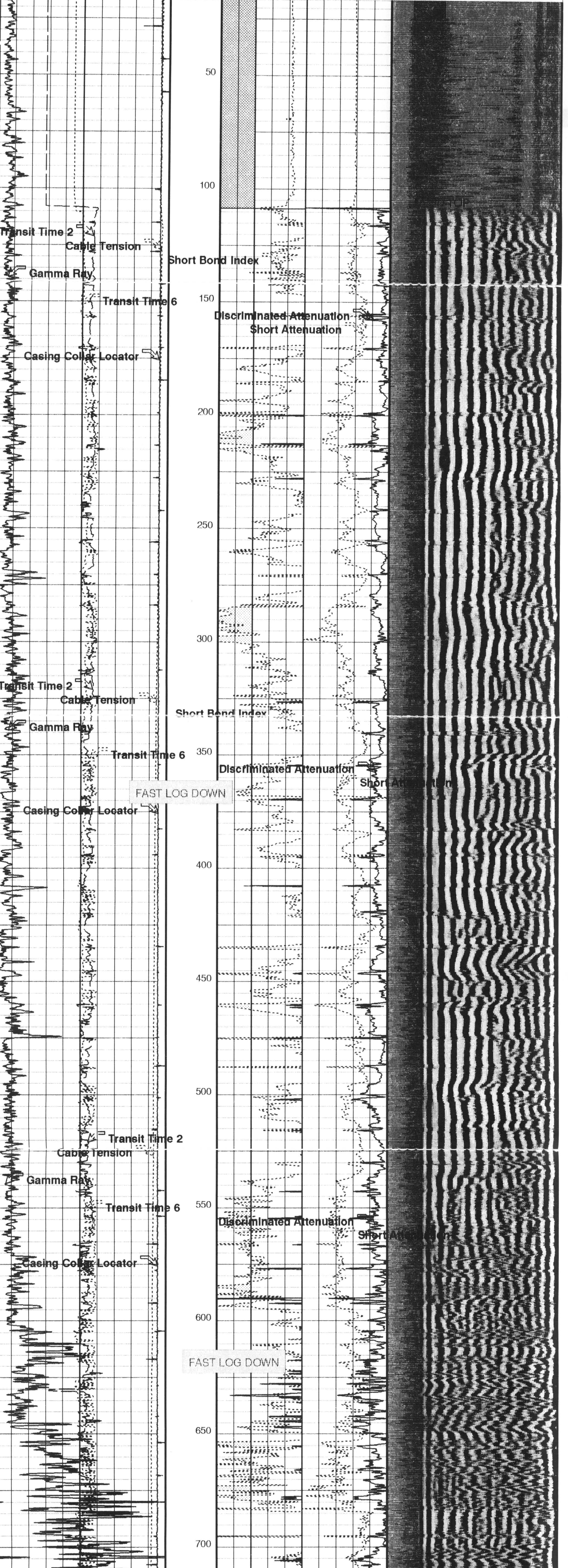
INTERPRETATION:

Input DLIS Files					
DEFAULT	Flip_CBT_048LUP	PRODUCER	18-Mar-2004 23:21	1442.9 M	15.8 M
Output DLIS Files					
DEFAULT	CBT_049PUP	FN:88	PRODUCER	18-Mar-2004 23:22	1442.9 M 16.3 M

OP System Version: 11C0-305					
MCM					
CBT-EB	11C0-305	SGT-L	11C0-305		
CAL-Y	11C0-305	TCC-BF	OP11-KP1		

PIP SUMMARY					
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Time Mark Every 60 S					
		Cable Tension (TENS)			
		5000 (LBF)		0	
		Transit Time 2 (TT2C)			
350		(US)		150	
		Gamma Ray (GR)			
0		(GAPI)		100	
		Transit Time 6 (TT6C)			
250		(US)		50	
		Casing Collar Locator (CCL)			
-19		(----)		1	
		Short Bond Index (SBI)		Discriminated Attenuation (DATN)	
		1 (----) 0.5		50 (DB/M) 0	
		Discriminated Bond Index (DBI)		Short Attenuation	
		1 (----) 0.5		50 (DB/M) 0	
				FAST LOG DOWN	
				Min Amplitude Max	
				VDL VariableDensity (VDL)	
				(US)	
				200 1200	



Format: CBT_VDL_7IN_AND_LESS Vertical Scale: 1:1200 Graphics File Created: 18-Mar-2004 23:22

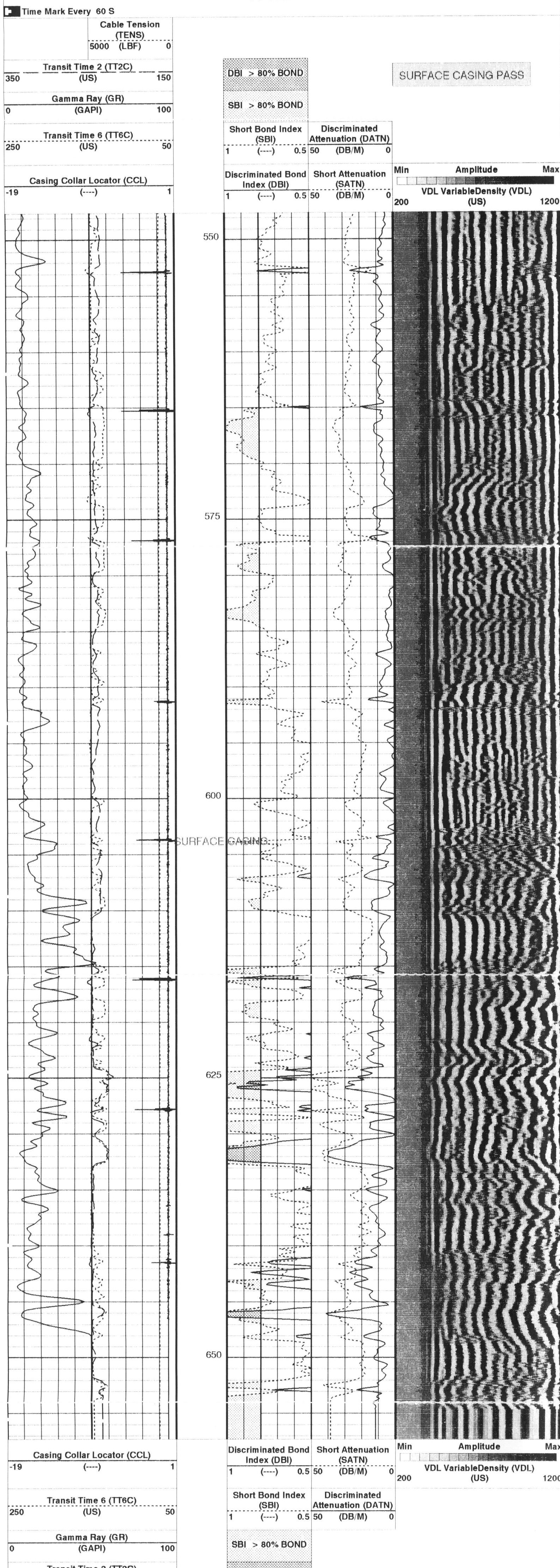
OP System Version: 11C0-305			
MCM			
CBT-EB	11C0-305	SGT-L	11C0-305
CAL-Y	11C0-305	TCC-BF	OP11-KP1

Input DLIS Files						
DEFAULT	Flip_CBT_048LUP	PRODUCER	18-Mar-2004 23:21	1442.9 M	15.8 M	
Output DLIS Files						
DEFAULT	CBT_049PUP	FN:88	PRODUCER	18-Mar-2004 23:22		

Output DLIS Files						
DEFAULT	CBT_046LUP	FN:86	PRODUCER	18-Mar-2004 23:10	657.3 M	547.4 M

OP System Version: 11C0-305			
MCM			
CBT-EB	11C0-305	SGT-L	11C0-305
CAL-Y	11C0-305	TCC-BF	OP11-KP1

PIP SUMMARY

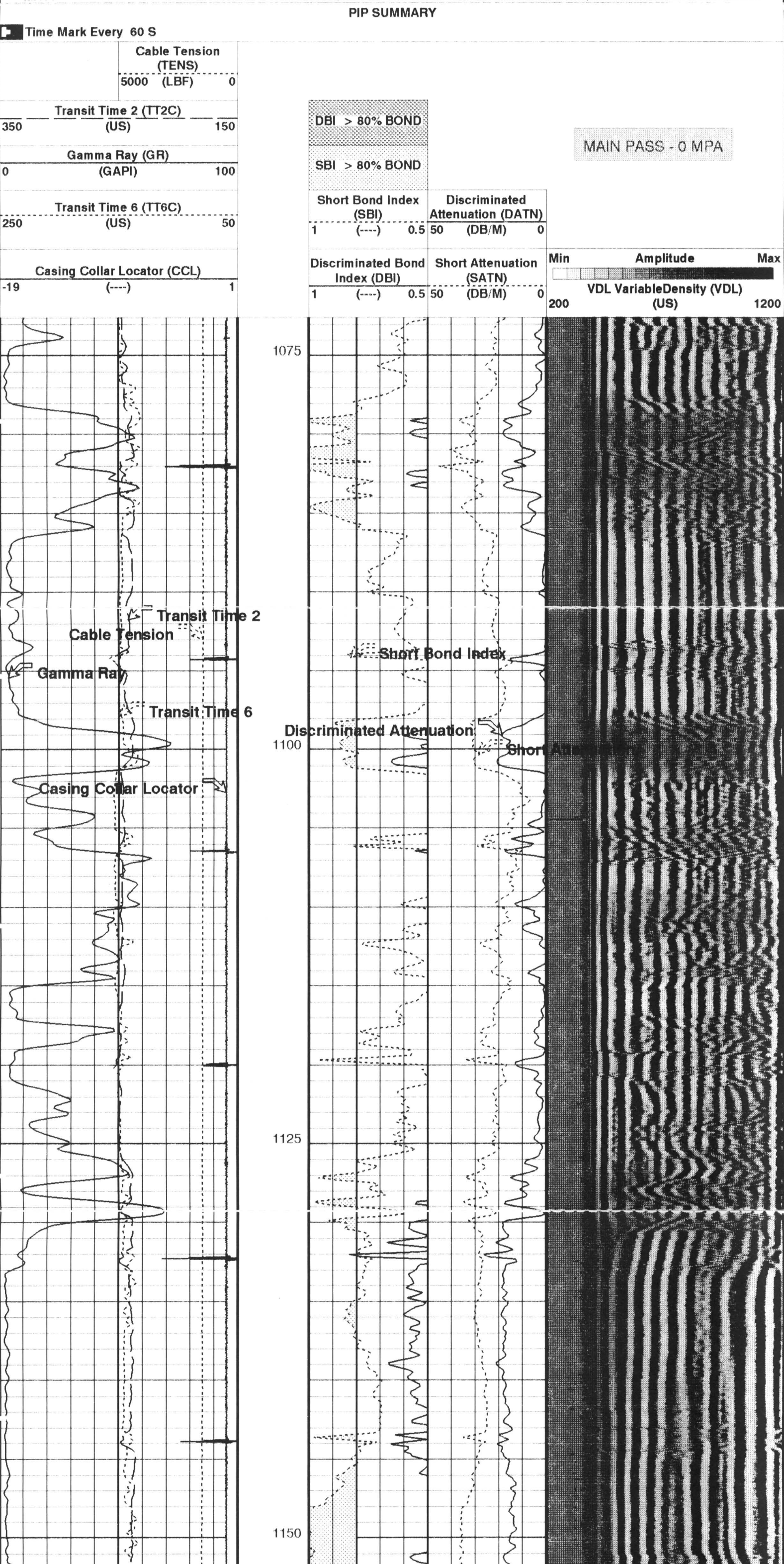


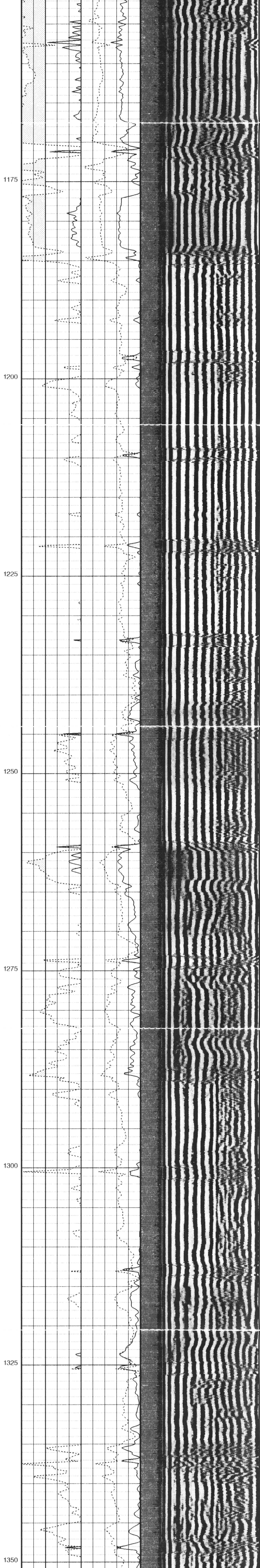
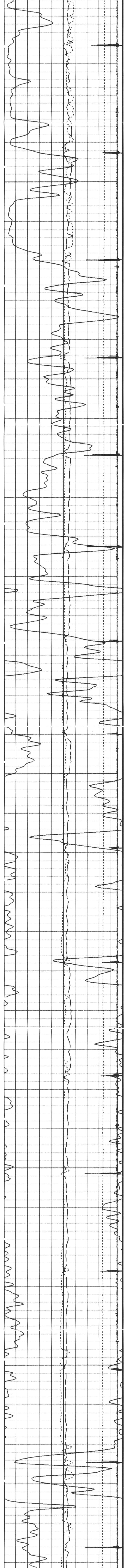
350	Transit Time 2 (TT2C) (US)	150	DBI > 80% BOND	SURFACE CASING PASS
	Cable Tension (TENS) 5000 (LBF)	0		
PIP SUMMARY				
Time Mark Every 60 S				
Parameters				
DLIS Name	Description	Value		
CBT-EB: Cement Bond Tool				
AGC	Automatic Gain Control	ON		
AGPD	Amplitude Gate Past Detection	25	US	
BILI	Bond Index Level of Zone Isolation	0.8		
CCLG	CBT CCL Gain	X1		
CMPM	Computation Mode	ALL		
CSRL	Cycle Skip Recovery Logic Algorithm	OFF		
DDEL	Digitizing Delay	200	US	
DSIN	Digitizer Sample Interval	4	US	
DTMD	Delta-T Mud	750	US/M	
DWCO	Digitizer Word Count	250		
DWF	Digitized Waveforms	ON		
FMSG	Far Minimum Sliding Gate	291	US	
FTTM	Far Transit Time Minimum	301.884	US	
GAI	Manual Gain	75		
GOBO	Good Bond	2	MV	
MATS	Maximum Attenuation Short	36	DB/M	
MATT	Maximum Attenuation	32	DB/M	
MCS	Mean Casing Slowness	187.008	US/M	
MGAI	Maximum Gain	4000		
MODE	Firing Mode	ALL		
MUXI	Multiplexor Input	RCVR		
NFFPI	Near Free Pipe Sonic Amplitude	40	MV	
NMSG	Near Minimum Sliding Gate	234	US	
NTTM	Near Transit Time Minimum	244.884	US	
R32R	R3 to R2 Sensitivity Ratio	0	DB/M	
RATE	Firing Rate	R15		
SALL	Sonic Amplitude Lower Limit	0.5	MV	
SFPI	Short Free Pipe Sonic Amplitude	50	MV	
SGAD	Sliding Gate	OFF		
SLEV	Signal Level for AGC	5000	MV	
SMSG	Short Minimum Sliding Gate	143	US	
SWW	Sonic Window Width	13	MS	
TOCA	T0 Correction	ON		
TRAN	Transmitter	ON		
TTFF	Transit Time Correction Factor	15	US	
TVCA	Transmitter Voltage Correction Algorithm	ON		
UGAI	Uphole Gain	G3		
VDLG	VDL Manual Gain	75		
VDLM	VDL Firing Mode	LTR1		
VMSG	Very Far Minimum Sliding Gate	383	US	
WERA	Wrong Echo Rejection Algorithm	ON		
SGT-L: Scintillation Gamma-Ray - L				
BHS	Borehole Status	CASED		
BHT	Bottom Hole Temperature (used in calculations)	100	DEGC	
DPPM	Density Porosity Processing Mode	STAN		
GCSE	Generalized Caliper Selection	BS		
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG	
GGRD	Geothermal Gradient	0.018227	DC/M	
GRSE	Generalized Mud Resistivity Selection	CHART GEN 9		
GTSE	Generalized Temperature Selection	LINEAR ESTIMATE		
ISSBAR	SGT Nuclear Mud Type	NOBARITE		
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE		
SHT	Surface Hole Temperature	20	DEGC	
SOGR	SGT Standoff Distance	0	MM	
CAL-Y: Casing Anomaly Locator - Y				
CCLD	CCL reset delay	305	MM	
CCLT	CCL Detection Level	0.3	V	
System and Miscellaneous				
ALTDPCHAN	Name of alternate depth channel	SpeedCorrectedDepth		
BS	Bit Size	216.000	MM	
BSAL	Borehole Salinity	50000.00	PPM	
CSIZ	Current Casing Size	177.800	MM	
CWEI	Casing Weight	43.16	KG/M	
DFD	Drilling Fluid Density	700.00	K/M3	
MST	Mud Sample Temperature	-50000.00	DEGC	
PBVSADP	Use alternate depth channel for playback	NO		
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM	
RW	Resistivity of Connate Water	-50000.0000	OHMM	
TD	Total Depth	-50000	M	
TDD	Total Depth - Driller	1476.00	M	
TDL	Total Depth - Logger	1453.50	M	
TWS	Temperature of Connate Water Sample	-50000.00	DEGC	
Format: CBT_VDL_7IN_AND_LESS Vertical Scale: 1:240 Graphics File Created: 18-Mar-2004 23:10				

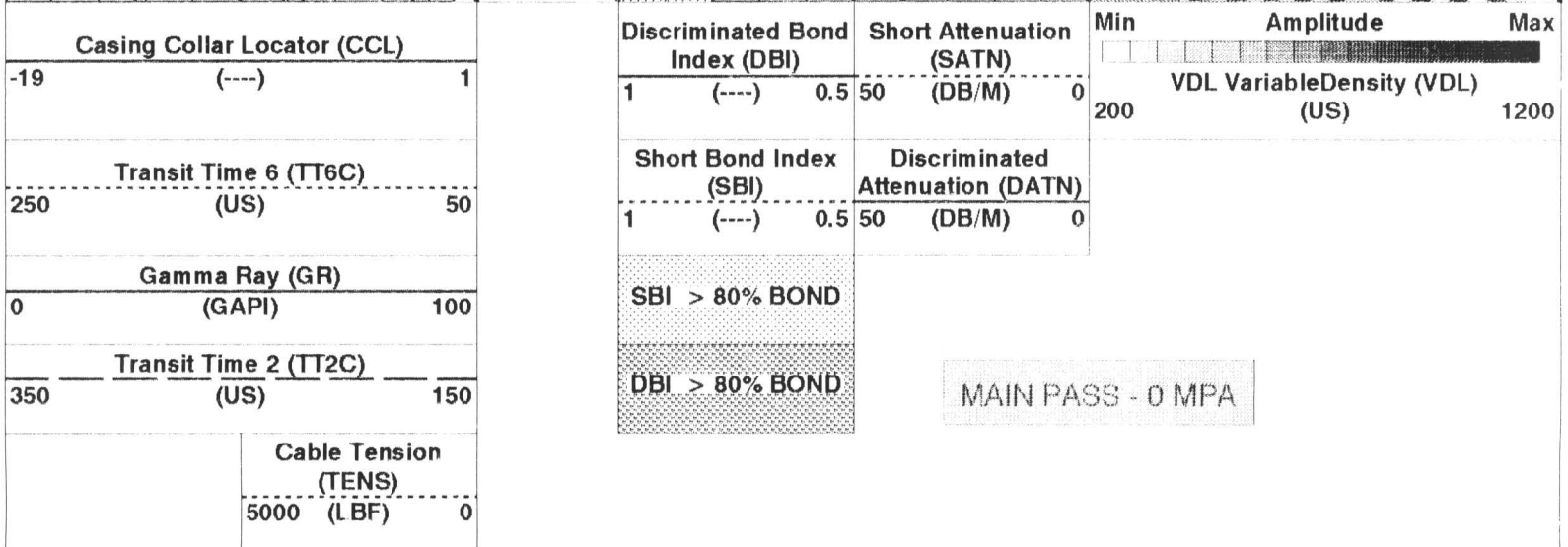
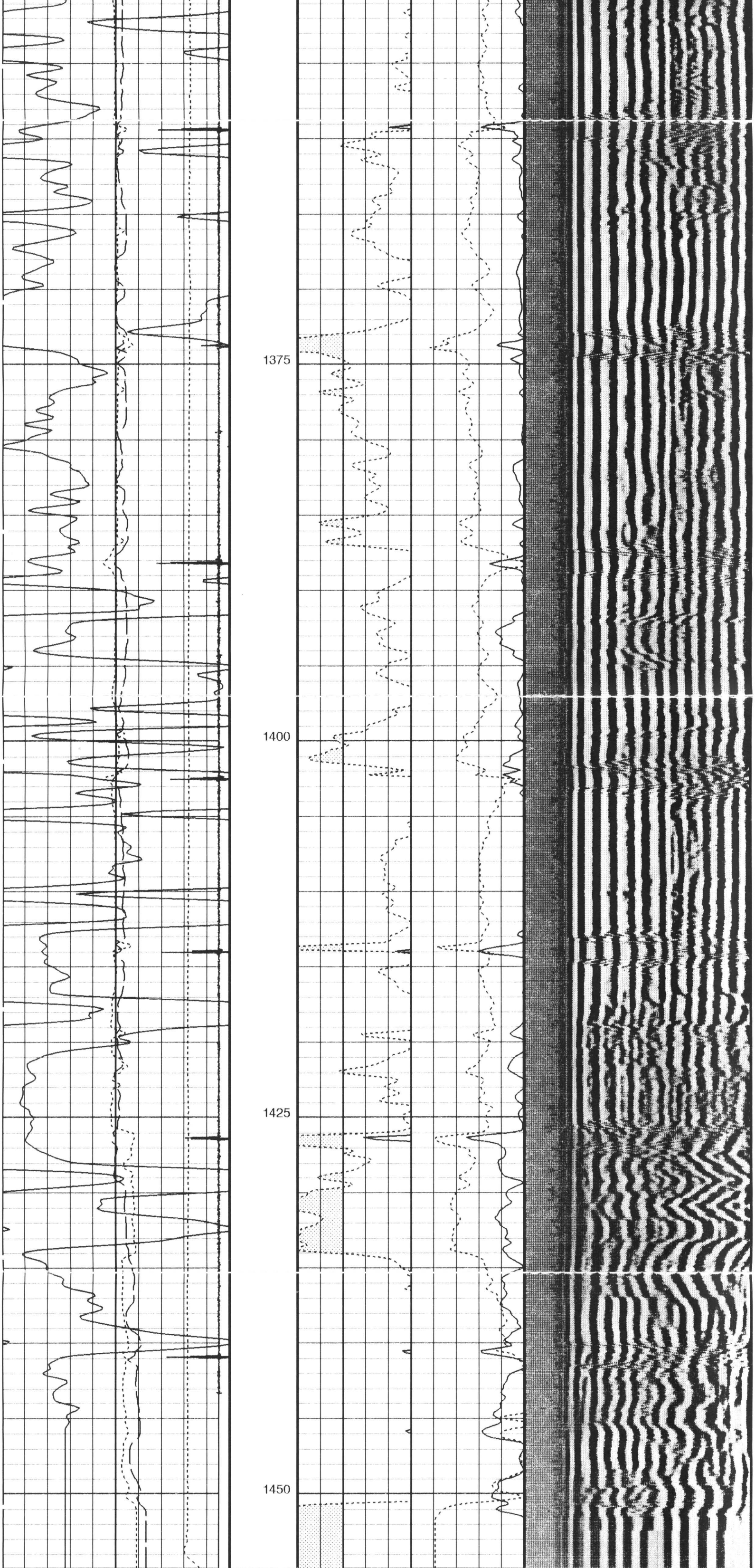
OP System Version: 11C0-305				
MCM				
CBT-EB	11C0-305	SGT-L	11C0-305	
CAL-Y	11C0-305	TCC-BF	OP11-KP1	
Output DLIS Files				
DEFAULT	CBT_046LUP	FN:86	PRODUCER	18-Mar-2004 23:10

Output DLIS Files				
DEFAULT	CBT_045LUP	FN:85	PRODUCER	18-Mar-2004 22:34 1455.0 M 1072.6 M
OP System Version: 11C0-305				
MCM				
CBT-EB	11C0-305	SGT-L	11C0-305	
CAL-Y	11C0-305	TCC-BF	OP11-KP1	

Changed Parameter Summary			
DLIS Name	New Value	Previous Value	Depth & Time
MATS	36 DB/M	32 DB/M	1371.5 22:41:45
MATT	32 DB/M	36 DB/M	1373.9 22:41:36







Time Mark Every 60 S

PIP SUMMARY

Parameters			
DLIS Name	Description	Value	
CBT-EB: Cement Bond Tool			
AGC	Automatic Gain Control	ON	
AGPD	Amplitude Gate Past Detection	25	US
BILI	Bond Index Level of Zone Isolation	0.8	
CCLG	CBT CCL Gain	X1	
CMPM	Computation Mode	ALL	
CSRL	Cycle Skip Recovery Logic Algorithm	OFF	
DDEL	Digitizing Delay	200	US
DSIN	Digitizer Sample Interval	4	US
DTMD	Delta-T Mud	750	US/M
DWCO	Digitizer Word Count	250	
DWF	Digitized Waveforms	ON	
FMSG	Far Minimum Sliding Gate	291	US
FTTM	Far Transit Time Minimum	301.884	US
GAI	Manual Gain	75	
GOBO	Good Bond	2	MV
MATS	Maximum Attenuation Short	32	DB/M
MATT	Maximum Attenuation	36	DB/M
MCS	Mean Casing Slowness	187.008	US/M
MGAI	Maximum Gain	4000	
MODE	Firing Mode	ALL	
MUXI	Multiplexor Input	RCVR	
NFPI	Near Free Pipe Sonic Amplitude	40	MV
NMSG	Near Minimum Sliding Gate	234	US
NTTM	Near Transit Time Minimum	244.884	US
R32R	R3 to R2 Sensitivity Ratio	0	DB/M
RATE	Firing Rate	R15	
SALL	Sonic Amplitude Lower Limit	0.5	MV
SFPI	Short Free Pipe Sonic Amplitude	50	MV
SGAD	Sliding Gate	OFF	
SLEV	Signal Level for AGC	5000	MV
SMSG	Short Minimum Sliding Gate	143	US
SWW	Sonic Window Width	13	MS
TOCA	T0 Correction	ON	
TRAN	Transmitter	ON	
TTF	Transit Time Correction Factor	15	US
TVCA	Transmitter Voltage Correction Algorithm	ON	
UGAI	Uphole Gain	G3	
VDLG	VDL Manual Gain	75	
VDLM	VDL Firing Mode	LTR1	
VMSG	Very Far Minimum Sliding Gate	383	US
WERA	Wrong Echo Rejection Algorithm	ON	
SGT-L: Scintillation Gamma-Ray - L			
BHS	Borehole Status	CASED	
BHT	Bottom Hole Temperature (used in calculations)	100	DEGC
DPPM	Density Porosity Processing Mode	STAN	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART GEN 9	
GTSE	Generalized Temperature Selection	LINEAR ESTIMATE	
ISSBAR	SGT Nuclear Mud Type	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	20	DEGC
SOGR	SGT Standoff Distance	0	MM
CAL-Y: Casing Anomaly Locator - Y			
CCLD	CCL reset delay	305	MM
CCLT	CCL Detection Level	0.3	V
System and Miscellaneous			
ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	216.000	MM
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	177.800	MM
CWEI	Casing Weight	43.16	KG/M
DFD	Drilling Fluid Density	700.00	K/M3
MST	Mud Sample Temperature	-50000.00	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	-50000.0000	OHMM
TD	Total Depth	-50000	M
TDD	Total Depth - Driller	1476.00	M
TDL	Total Depth - Logger	-50000.00	M
TWS	Temperature of Connate Water Sample	-50000.00	DEGC

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OP System Version: 11C0-305

MCM

CBT-EB 11C0-305 SGT-L 11C0-305
CAL-Y 11C0-305 TCC-BF OP11-KP1

Output DLIS Files

DEFAULT CBT_045LUP FN:85 PRODUCER 18-Mar-2004 22:34

Input DLIS Files

DEFAULT CBT_043LUP FN:83 PRODUCER 18-Mar-2004 22:28 1454.7 M 1382.9 M

Output DLIS Files

DEFAULT CBT_044PUP FN:84 PRODUCER 18-Mar-2004 22:33 1454.2 M 1382.9 M

OP System Version: 11C0-305

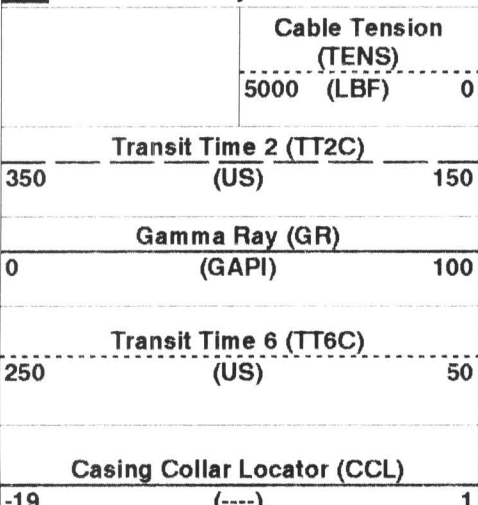
MCM

CBT-EB 11C0-305
CAL-Y 11C0-305

SGT-L 11C0-305
TCC-BF OP11-KP1

PIP SUMMARY

Time Mark Every 60 S



DBI > 80% BOND

SBI > 80% BOND

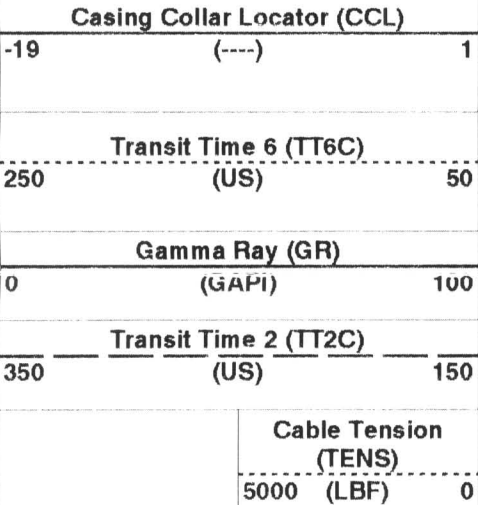
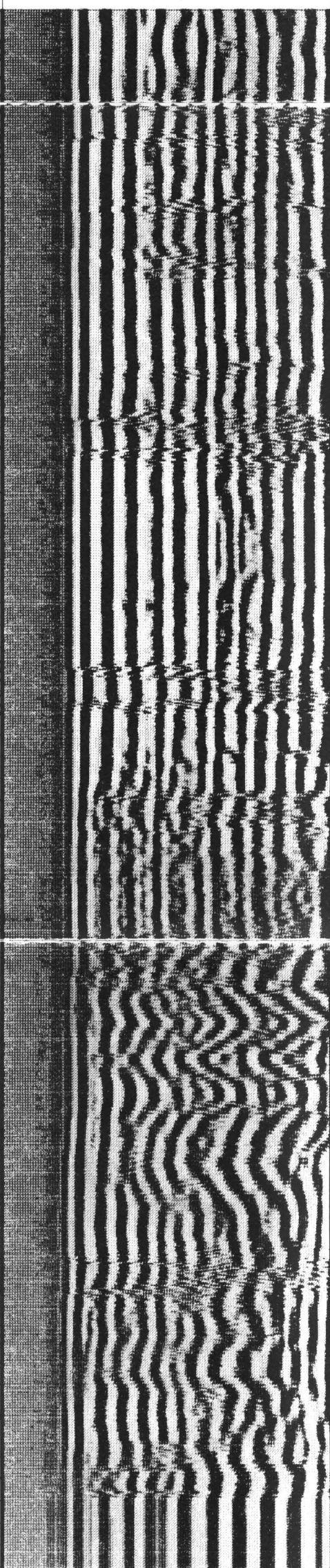
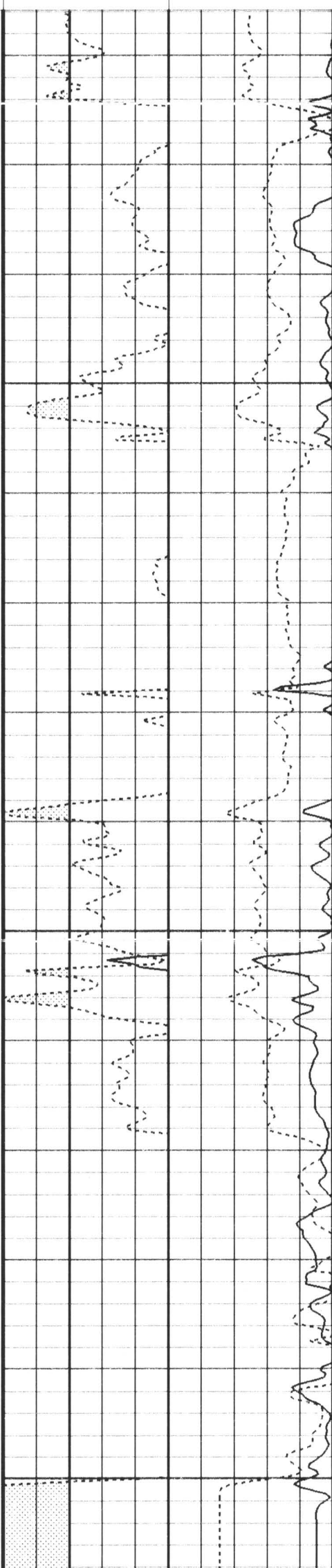
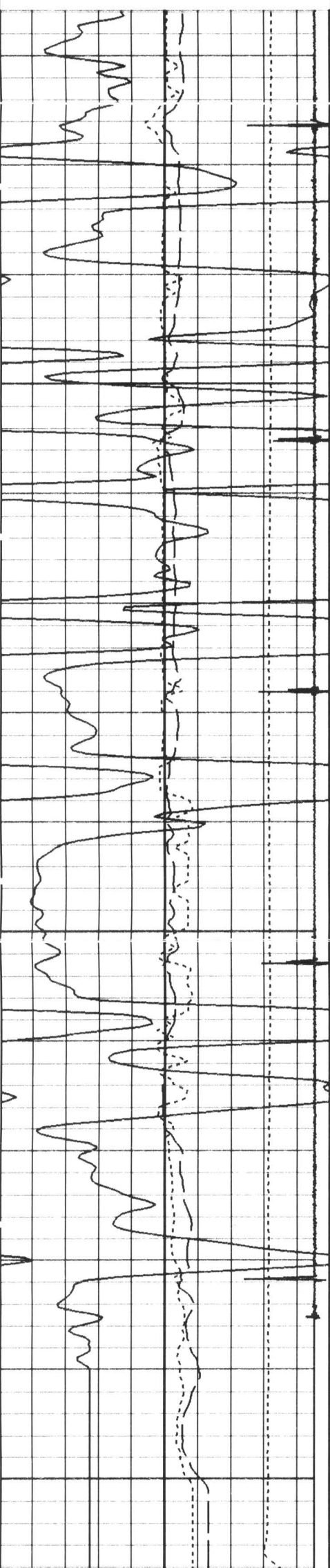
Short Bond Index (SBI) 1 (----) 0.5

Discriminated Attenuation (DATN) 50 (DB/M) 0

Discriminated Bond Index (DBI) 1 (----) 0.5

Short Attenuation (SATN) 50 (DB/M) 0

Min Amplitude Max
VDL Variable Density (VDL) (US) 200 1200



Discriminated Bond Index (DBI) 1 (----) 0.5

Short Attenuation (SATN) 50 (DB/M) 0

Short Bond Index (SBI) 1 (----) 0.5

Discriminated Attenuation (DATN) 50 (DB/M) 0

SBI > 80% BOND

DBI > 80% BOND

Min Amplitude Max
VDL Variable Density (VDL) (US) 200 1200

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
CBT-EB: Cement Bond Tool		
AGC	Automatic Gain Control	ON
AGPD	Amplitude Gate Past Detection	25 US
BILI	Bond Index Level of Zone Isolation	0.8
CCLG	CBT CCL Gain	X1
CMPM	Computation Mode	ALL
CSRL	Cycle Skip Recovery Logic Algorithm	OFF
DDEL	Digitizing Delay	200 US
DSIN	Digitizer Sample Interval	4 US
DTMD	Delta-T Mud	750 US/M
DWCO	Digitizer Word Count	250
DWF	Digitized Waveforms	ON
FMSG	Far Minimum Sliding Gate	291 US
FTTM	Far Transit Time Minimum	301.884 US
GAI	Manual Gain	75
GOBO	Good Bond	2 MV
MATS	Maximum Attenuation Short	32 DB/M
MATT	Maximum Attenuation	36 DB/M
MCS	Mean Casing Slowness	187.008 US/M
MGA1	Maximum Gain	4000
MODE	Firing Mode	ALL
MUXI	Multiplexor Input	RCVR
NFPI	Near Free Pipe Sonic Amplitude	40 MV
NMSG	Near Minimum Sliding Gate	234 US
NTTM	Near Transit Time Minimum	244.884 US
R32R	R3 to R2 Sensitivity Ratio	0 DB/M
RATE	Firing Rate	R15
SALL	Sonic Amplitude Lower Limit	0.5 MV
SFPI	Short Free Pipe Sonic Amplitude	50 MV
SGAD	Sliding Gate	OFF
SLEV	Signal Level for AGC	5000 MV
SMSG	Short Minimum Sliding Gate	143 US
SWW	Sonic Window Width	13 MS
TOCA	T0 Correction	ON
TRAN	Transmitter	ON
TTFE	Transit Time Correction Factor	15 US
TVCA	Transmitter Voltage Correction Algorithm	ON
UGAI	Uphole Gain	G3
VDLG	VDL Manual Gain	75
VDLM	VDL Firing Mode	LTR1
VMSG	Very Far Minimum Sliding Gate	383 US
WERA	Wrong Echo Rejection Algorithm	ON
SGT-L: Scintillation Gamma-Ray - L		
BHS	Borehole Status	CASED
BHT	Bottom Hole Temperature (used in calculations)	100 DEGC
DPPM	Density Porosity Processing Mode	STAN
GCSE	Generalized Caliper Selection	BS
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.018227 DC/M
GRSE	Generalized Mud Resistivity Selection	CHART GEN 9
GTSE	Generalized Temperature Selection	LINEAR ESTIMATE
ISSBAR	SGT Nuclear Mud Type	NOBARITE
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE
SHT	Surface Hole Temperature	20 DEGC
SOGR	SGT Standoff Distance	0 MM
CAL-Y: Casing Anomaly Locator - Y		
CCLD	CCL reset delay	305 MM
CCLT	CCL Detection Level	0.3 V
System and Miscellaneous		
ALTDPCAN	Name of alternate depth channel	SpeedCorrectedDepth
BS	Bit Size	216.000 MM
BSAL	Borehole Salinity	-50000.00 PPM
CSIZ	Current Casing Size	177.800 MM
CWEI	Casing Weight	43.16 KG/M
DFD	Drilling Fluid Density	700.00 K/M3
DO	Depth Offset for Playback	-0.5 M
MST	Mud Sample Temperature	-50000.00 DEGC
PBVSADP	Use alternate depth channel for playback	NO
PP	Playback Processing	NORMAL
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000 OHMM
RW	Resistivity of Connate Water	-50000.0000 OHMM
TD	Total Depth	-50000 M
TDD	Total Depth - Driller	1476.00 M
TDL	Total Depth - Logger	-50000.00 M
TWS	Temperature of Connate Water Sample	-50000.00 DEGC

Format: CBT_VDL_7IN_AND_LESS Vertical Scale: 1:240 Graphics File Created: 18-Mar-2004 22:33

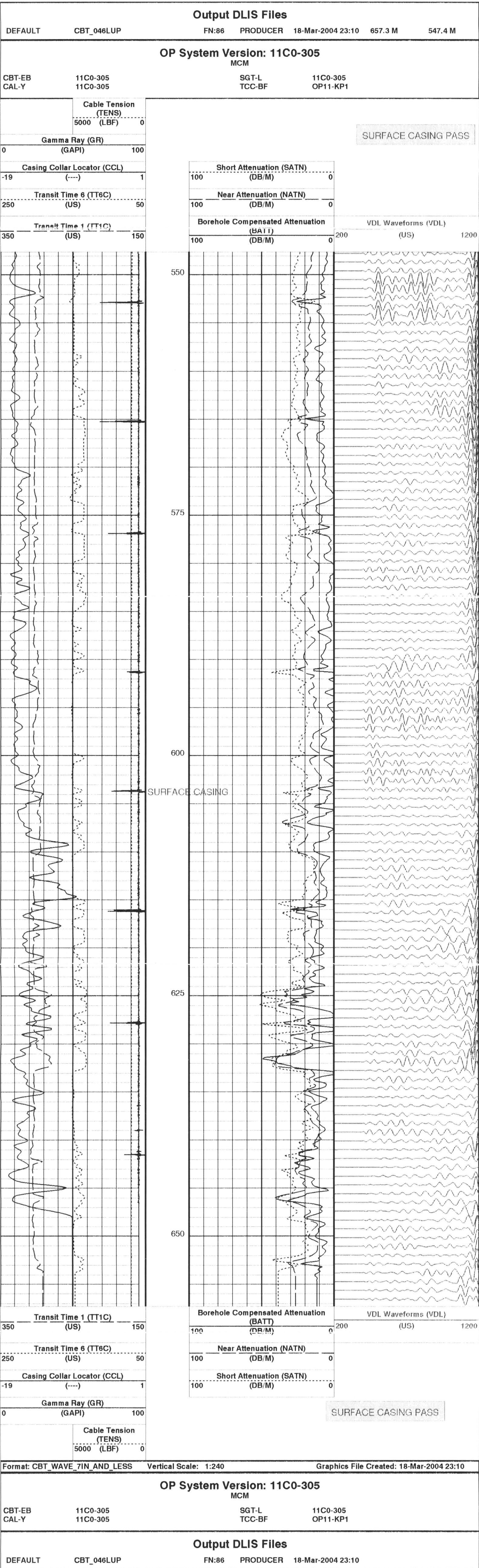
OP System Version: 11C0-305

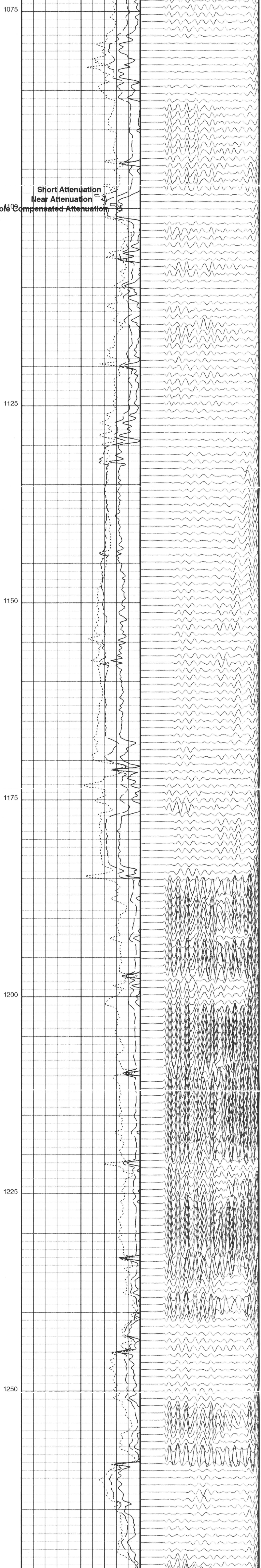
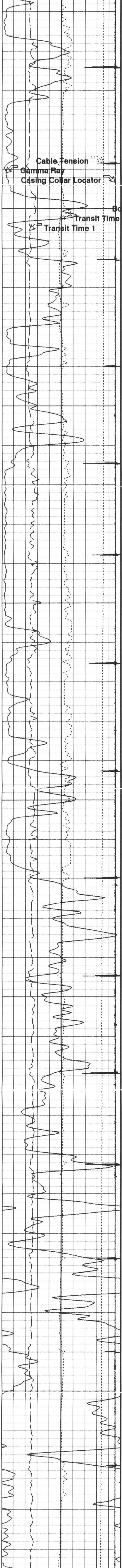
MCM

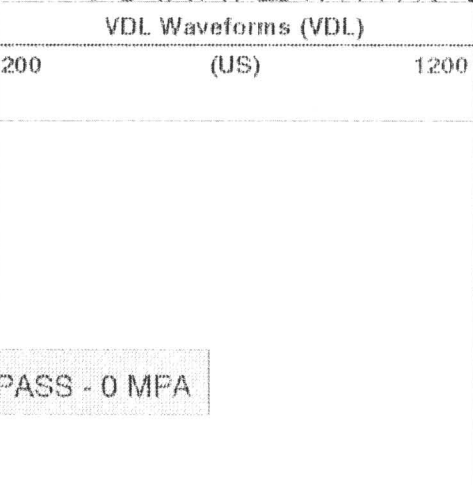
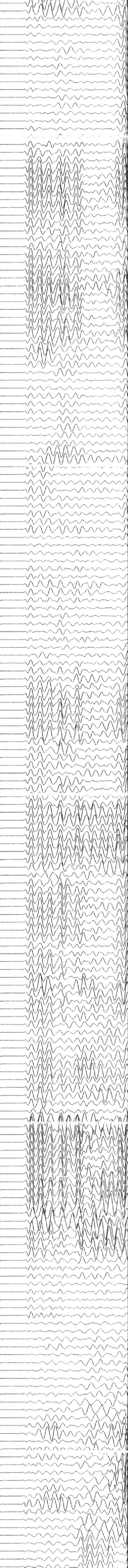
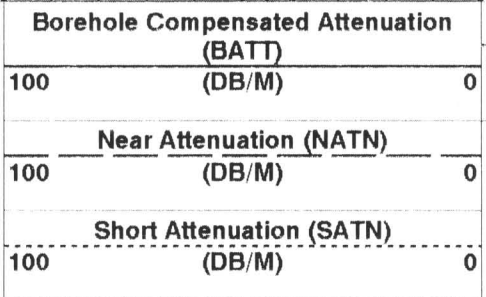
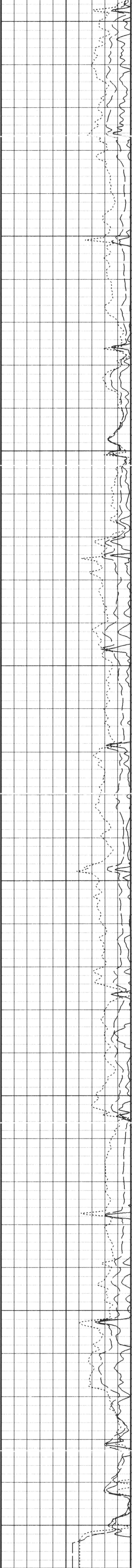
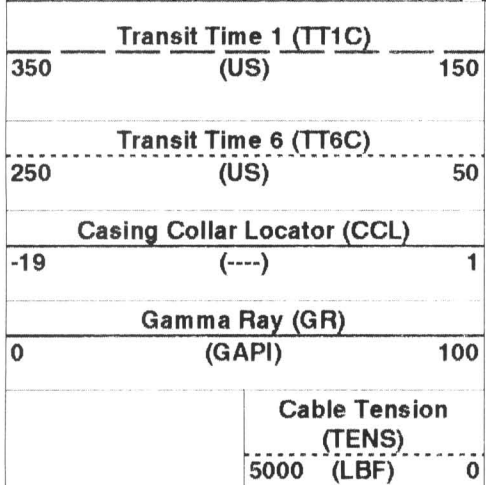
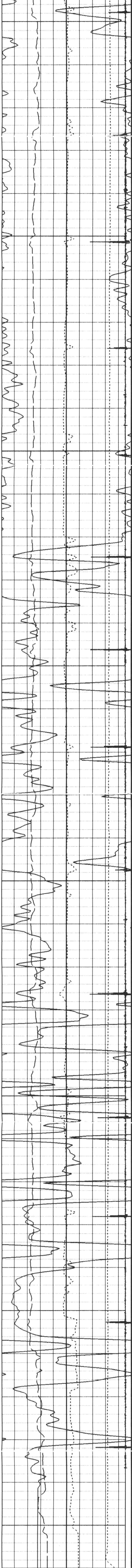
CBT-EB 11C0-305
CAL-Y 11C0-305

SGT-L 11C0-305
TCC-BF OP11-KP1

Input DLIS Files

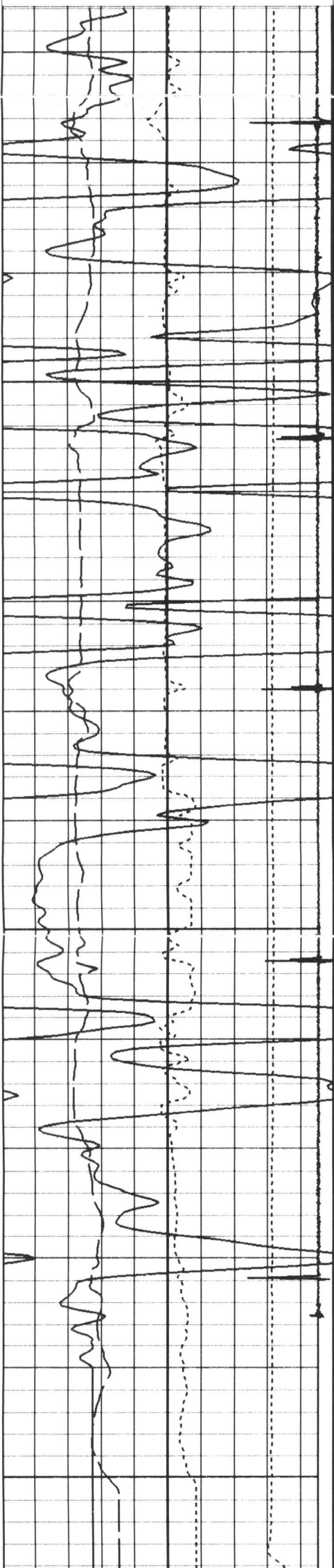
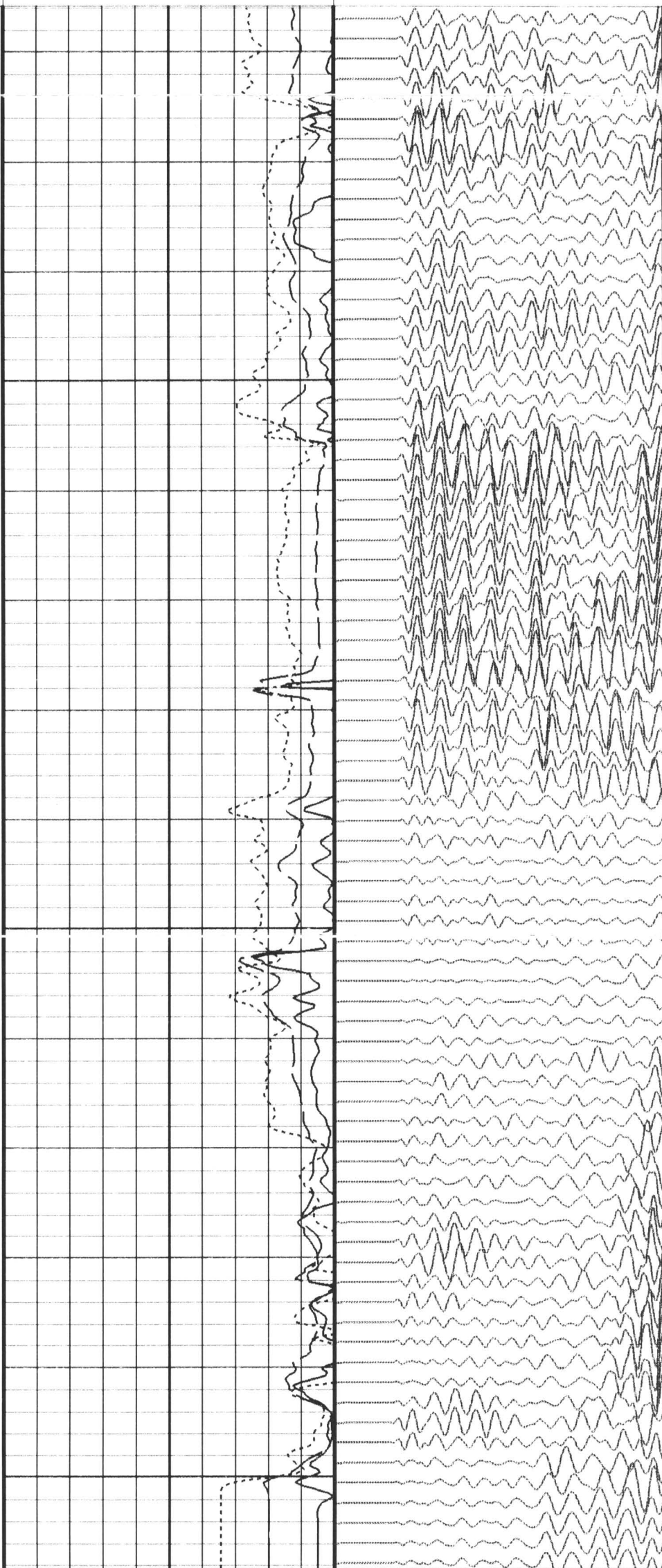






Format: CBT_WAVE_7IN_AND_LESS Vertical Scale: 1:240 Graphics File Created: 18-Mar-2004 22:34			
OP System Version: 11C0-305			
MCM			
CBT-EB	11C0-305	SGT-L	11C0-305
CAL-Y	11C0-305	TCC-BF	OP11-KP1
Output DLIS Files			
DEFAULT	CBT_045LUP	FN:85	PRODUCER 18-Mar-2004 22:34

Input DLIS Files			
DEFAULT	CBT_043LUP	FN:83	PRODUCER 18-Mar-2004 22:28 1454.7 M 1382.9 M
Output DLIS Files			
DEFAULT	CBT_044PUP	FN:84	PRODUCER 18-Mar-2004 22:33 1454.2 M 1382.9 M

OP System Version: 11C0-305			
MCM			
CBT-EB	11C0-305	SGT-L	11C0-305
CAL-Y	11C0-305	TCC-BF	OP11-KP1
Cable Tension (TENS) 5000 (LBF) 0			
Gamma Ray (GR) 0 (GAPI) 100			
Casing Collar Locator (CCL) -19 (----) 1		Short Attenuation (SATN) 100 (DB/M) 0	
Transit Time 6 (TT6C) 250 (US) 50		Near Attenuation (NATN) 100 (DB/M) 0	
Transit Time 1 (TT1C) 350 (US) 150		Borehole Compensated Attenuation (BATT) 100 (DB/M) 0	
		VDL Waveforms (VDL) 200 (US) 1200	
			
Transit Time 1 (TT1C) 350 (US) 150		Borehole Compensated Attenuation (BATT) 100 (DB/M) 0	
Transit Time 6 (TT6C) 250 (US) 50		Near Attenuation (NATN) 100 (DB/M) 0	
Casing Collar Locator (CCL) -19 (----) 1		Short Attenuation (SATN) 100 (DB/M) 0	
Gamma Ray (GR) 0 (GAPI) 100			
Cable Tension (TENS) 5000 (LBF) 0			

Format: CBT_WAVE_7IN_AND_LESS Vertical Scale: 1:240 Graphics File Created: 18-Mar-2004 22:33			
OP System Version: 11C0-305			
MCM			
CBT-EB	11C0-305	SGT-L	11C0-305
CAL-Y	11C0-305	TCC-BF	OP11-KP1
Input DLIS Files			
DEFAULT	CBT_043LUP	FN:83	PRODUCER 18-Mar-2004 22:28 1454.7 M 1382.9 M
Output DLIS Files			
DEFAULT	CBT_044PUP	FN:84	PRODUCER 18-Mar-2004 22:33

Company: APACHE CANADA LTD.

Well: APACHE PARAMOUNT NOGHA B-23
Field: UNDEFINED
Province: NORTHWEST TERRITORIES

Schlumberger

COMPENSATED CEMENT
BONG LOG