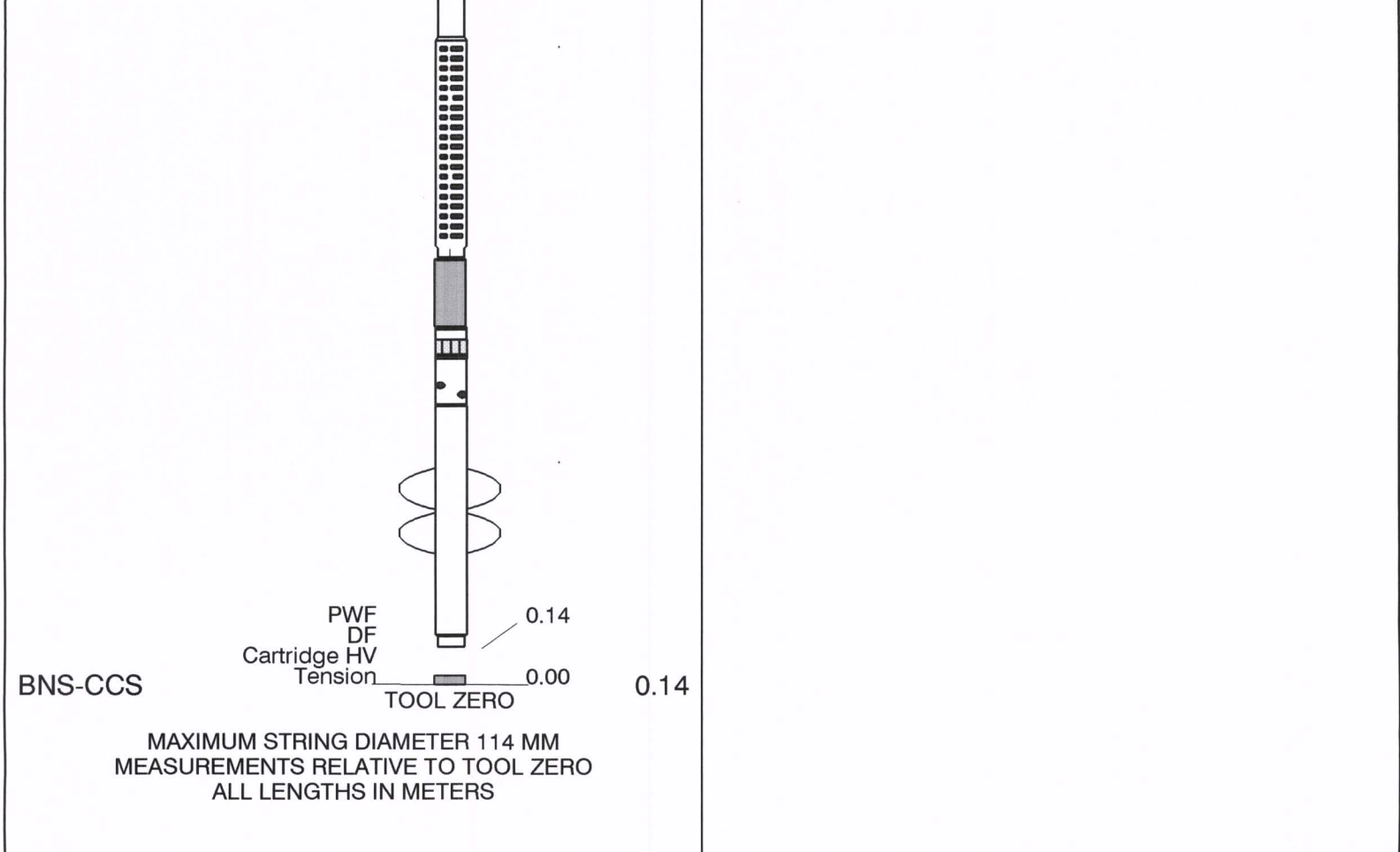




Input DLIS Files						
DEFAULT	DSI_EMS_018LUP	FN:39	PRODUCER	19-Mar-2004 10:16	1407.0 M	-4.6 M
Output DLIS Files						
DEFAULT	DSI_EMS_021PUP	FN:44	PRODUCER	19-Mar-2004 11:51	1407.0 M	513.9 M
BACKUP	DSI_EMS_021PUP	FN:45	PRODUCER	19-Mar-2004 12:01	1407.0 M	513.9 M
CUST	DSI_EMS_021PUP	FN:46	PRODUCER	19-Mar-2004 11:51	1407.0 M	513.9 M

Integrated Hole/Cement Volume Summary

Hole Volume = 31.49 M3

Cement Volume = 10.24 M3 (assuming 177.80 MM casing O.D.)

Computed from 1403.9 M to 548.0 M using data channel(s) RD1 RD2 RD3 RD4 RD5 RD6

OP System Version: 11C0-305			
MCM			
DSST-B	OP11-KP1	EMS-B	11C0-305
SGT-N	11C0-305	DTC-H	11C0-305

PIP SUMMARY

└ Integrated Hole Volume Minor Pip Every 0.1 M3

└ Integrated Hole Volume Major Pip Every 1 M3

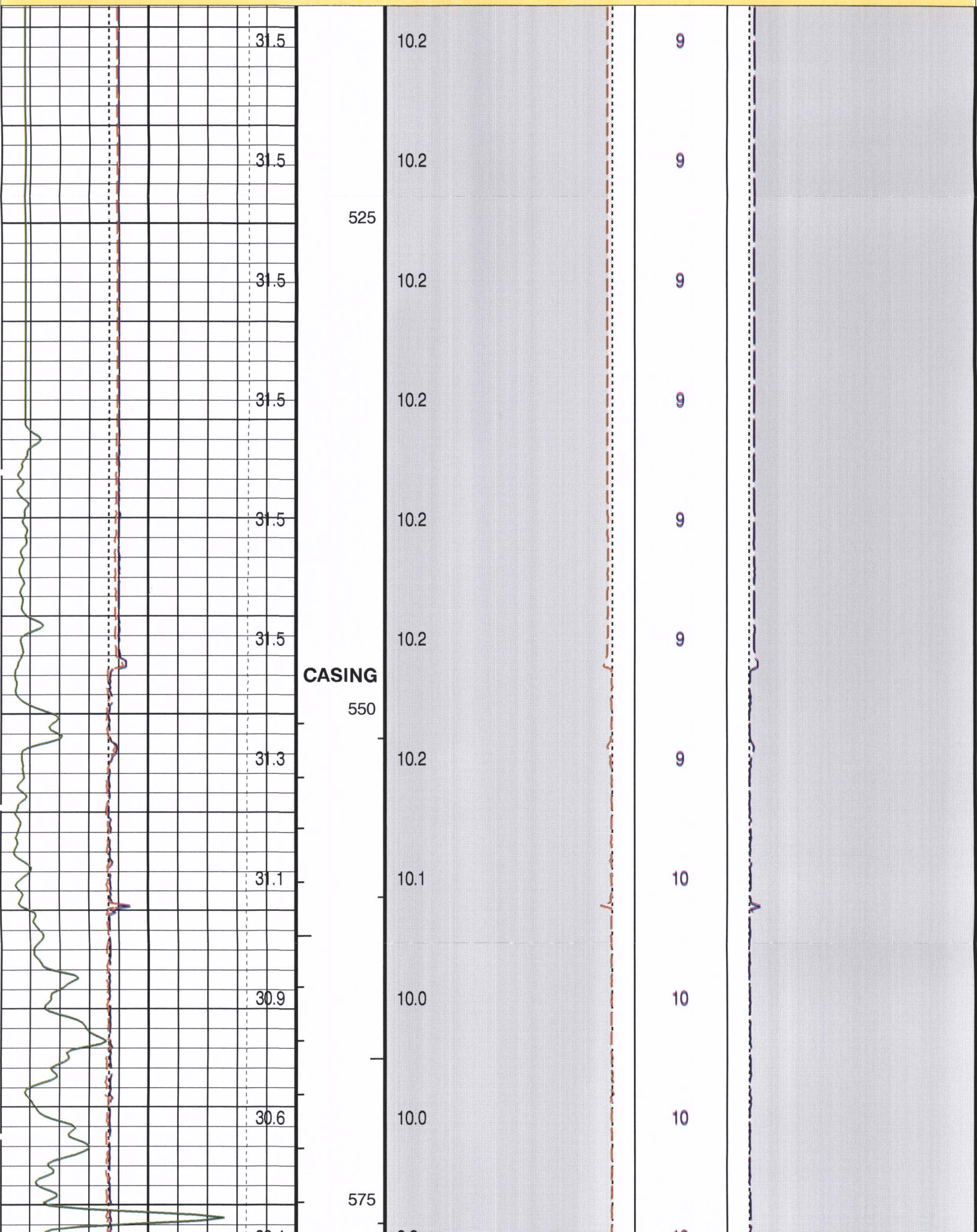
└ Integrated Cement Volume Minor Pip Every 0.1 M3

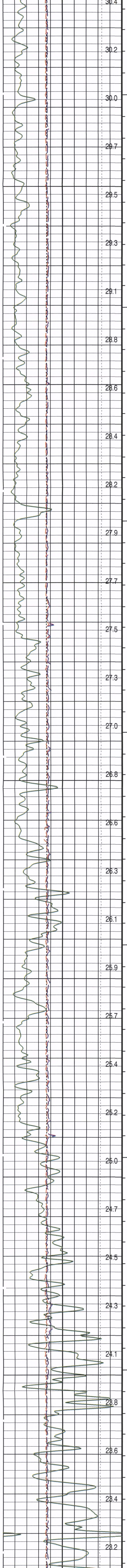
└ Integrated Cement Volume Major Pip Every 1 M3

Time Mark Every 60 S

Tension (TENS) 25000 (N)0 Hole Diameter Maximum (HDMX) 125 (MM)375 Hole Diameter Minimum (HDMI) 125 (MM)375 Gamma Ray (GR) 0 (GAPI)150 Bit Size (BS) 125 (MM)375	Formation Between LHT2 and HDMI_1	Formation Between HDMX_1 and RHT3
	Washout From HDMI_1 to BS2	Washout From BS3 to HDMX_1
	Tight Spot From BS2 to HDMI_1	Tight Spot From HDMX_1 to BS3
	Annulus From BS2 to FCD2	Annulus From FCD3 to BS3
	Future Casing	
	Hole Diameter Minimum (HDMI)	Hole Diameter Maximum (HDMX)
	600 (MM)100	100 (MM)600
	FCD2 (FCD)	FCD3 (FCD)
	600 (MM)100	100 (MM)600
	Bit Size (BS)	Bit Size (BS)
600 (MM)100	100 (MM)600	

*** CEMENT VOLUME LOG ***

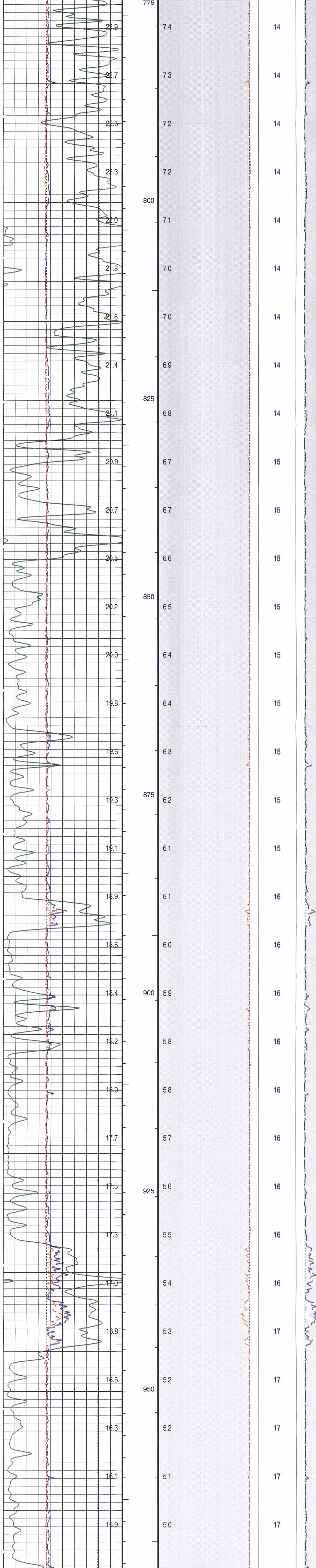


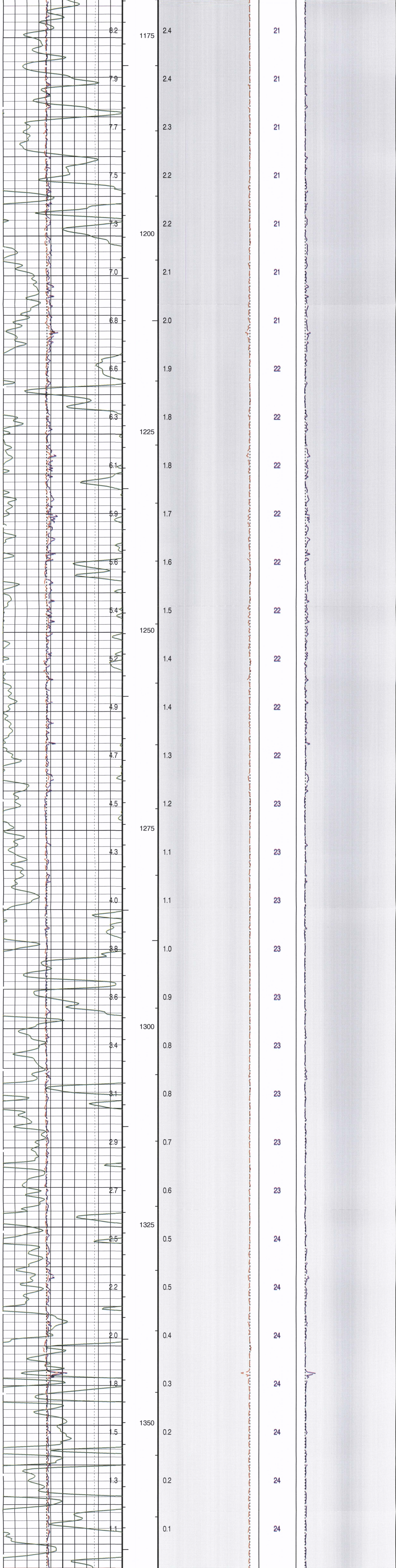


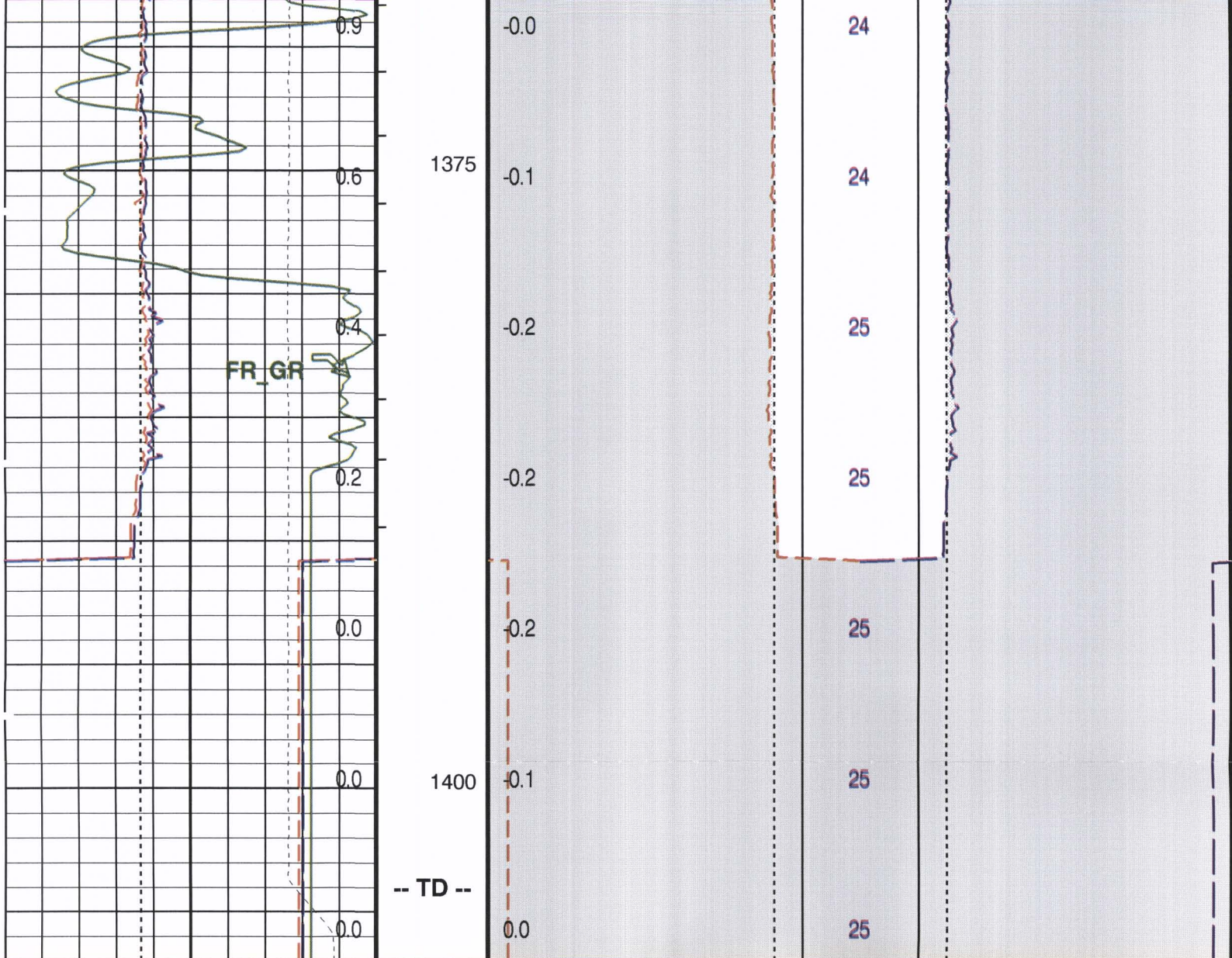
600
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750

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13







*** CEMENT VOLUME LOG ***

Bit Size (BS) (MM)	125	375	Bit Size (BS) (MM)	600	100	100	Bit Size (BS) (MM)	600
Gamma Ray (GR) (GAPI)	0	150	FCD2 (FCD) (MM)	600	100	100	FCD3 (FCD) (MM)	600
Hole Diameter Minimum (HDMI) (MM)	125	375	Hole Diameter Minimum (HDMI) (MM)	600	100	100	Hole Diameter Maximum (HDMX) (MM)	600
Hole Diameter Maximum (HDMX) (MM)	125	375	Future Casing					
Tension (TENS) (N)	25000	0	Annulus From BS2 to FCD2			Annulus From FCD3 to BS3		
			Tight Spot From BS2 to HDMI_1			Tight Spot From HDMX_1 to BS3		
			Washout From HDMI_1 to BS2			Washout From BS3 to HDMX_1		
			Formation Between LHT2 and HDMI_1			Formation Between HDMX_1 and RHT3		

PIP SUMMARY

- Integrated Hole Volume Minor Pip Every 0.1 M3
- Integrated Hole Volume Major Pip Every 1 M3
 - Integrated Cement Volume Minor Pip Every 0.1 M3
 - Integrated Cement Volume Major Pip Every 1 M3

Time Mark Every 60 S

Parameters			
DLIS Name	Description	Value	
BHT	DSST-B: Dipole Shear Imager - B		
GGRD	Bottom Hole Temperature (used in calculations)	25	DEGC
GTSE	Geothermal Gradient	0.018227	DC/M
SHT	Generalized Temperature Selection	GRADIENT_FROM_BOTTOM	
	Surface Hole Temperature	5	DEGC
ECOF	EMS-B: Environment		
EFC	Measurement Sonde		
FCD	EMS Caliper Offset	50.8	MM
HVCS	EMS Fixed Caliper Operation	OFF	
	Future Casing (Outer) Diameter	177.8	MM
	Integrated Hole Volume Caliper Selection	EMS_Calipers	
BHT	SGT-N: Scintillation		
GGRD	Gamma-Ray - N		
GTSE	Bottom Hole Temperature (used in calculations)	25	DEGC
SHT	Geothermal Gradient	0.018227	DC/M
	Generalized Temperature Selection	GRADIENT_FROM_BOTTOM	
	Surface Hole Temperature	5	DEGC
BHT	HOLEV: Integrated Hole/Cement Volume		
FCD	Bottom Hole Temperature (used in calculations)	25	DEGC
GGRD	Future Casing (Outer) Diameter	177.8	MM
GTSE	Geothermal Gradient	0.018227	DC/M
HVCS	Generalized Temperature Selection	GRADIENT_FROM_BOTTOM	
SHT	Integrated Hole Volume Caliper Selection	EMS_Calipers	
	Surface Hole Temperature	5	DEGC
LBFR	STI: Stuck Tool Indicator		
TDD	Trigger for MAXIS First Reading Label	TDL	
TDL	Total Depth - Driller	1404.20	M
	Total Depth - Logger	1404.00	M
System and Miscellaneous			
BS	Bit Size	216.000	MM
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	
TD	Total Depth	1404	M

Format: CVL Vertical Scale: 1:240 Graphics File Created: 19-Mar-2004 11:51

OP System Version: 11C0-305						
MCM						
DSST-B	OP11-KP1		EMS-B	11C0-305		
SGT-N	11C0-305		DTC-H	11C0-305		
Input DLIS Files						
DEFAULT	DSI_EMS_018LUP	FN:39	PRODUCER	19-Mar-2004 10:16	1407.0 M	-4.6 M
Output DLIS Files						
DEFAULT	DSI_EMS_021PUP	FN:44	PRODUCER	19-Mar-2004 11:51		
BACKUP	DSI_EMS_021PUP	FN:45	PRODUCER	19-Mar-2004 12:01		
CUST	DSI_EMS_021PUP	FN:46	PRODUCER	19-Mar-2004 11:51		

Input DLIS Files						
DEFAULT	DSI_EMS_018LUP	FN:39	PRODUCER	19-Mar-2004 10:16	1407.0 M	-4.6 M
Output DLIS Files						
DEFAULT	DSI_EMS_021PUP	FN:44	PRODUCER	19-Mar-2004 11:51	1407.0 M	513.9 M
BACKUP	DSI_EMS_021PUP	FN:45	PRODUCER	19-Mar-2004 12:01	1407.0 M	513.9 M
CUST	DSI_EMS_021PUP	FN:46	PRODUCER	19-Mar-2004 11:51	1407.0 M	513.9 M

Integrated Hole/Cement Volume Summary	
Hole Volume = 31.49 M3	
Cement Volume = 10.24 M3 (assuming 177.80 MM casing O.D.)	
Computed from 1403.9 M to 548.0 M using data channel(s) RD1 RD2 RD3 RD4 RD5 RD6	

OP System Version: 11C0-305			
MCM			
DSST-B	OP11-KP1	EMS-B	11C0-305
SGT-N	11C0-305	DTC-H	11C0-305

PIP SUMMARY

- Integrated Hole Volume Minor Pip Every 0.1 M3
- Integrated Hole Volume Major Pip Every 1 M3
 - Integrated Cement Volume Minor Pip Every 0.1 M3
 - Integrated Cement Volume Major Pip Every 1 M3

Integrated Transit Time Minor Pip Every 1 MS

Integrated Transit Time Major Pip Every 10 MS

Time Mark Every 60 S

Standard deviation for HDAR From OSDV to D4T					
Probability Angle for HDMI (CHAM) (DEG)					
90 240					
Probability angle for HDMI From D4T to CHAM					
Fixed caliper flag From D4T to EFCF					
Oval Standard Deviation (OSDV)					
23 () 3					
Tool/Tot. Drag From D4T to STIA	Hole Diameter from Area (HDAR)	Hole Diameter from Area (HDAR)	Formation From RHT2 to RD1	Formation From LHT3 to RD2	Formation From RD3 to RHT3
125 (MM) 375	125 (MM) 375	125 (MM) 375			
Cable Drag From D4T to STIT	Hole Diameter 1 (HD1)	Hole Diameter Minimum (HDMI)	Radius 4 (RD4)	Radius 5 (RD5)	Radius 6 (RD6)
125 (MM) 375	125 (MM) 375	125 (MM) 375	-250 (MM) 250	-250 (MM) 250	250 (MM) -250
Stuck Stretch (STIT)	Gamma Ray (GR)	Hole Diameter Maximum (HDMX)	Radius 1 (RD1)	Radius 2 (RD2)	Radius 3 (RD3)
0 (M) 20	0 (GAPI) 150	125 (MM) 375	250 (MM) -250	250 (MM) -250	-250 (MM) 250
EMS Fixed Caliper Flag (EFCF)	Bit Size (BS)	Bit Size (BS)	EMS Tool Center (ETC1)	EMS Tool Center (ETC2)	EMS Tool Center (ETC3)
125 (MM) 375	125 (MM) 375	125 (MM) 375	250 (MM) -250	250 (MM) -250	250 (MM) -250

525

550

575

600

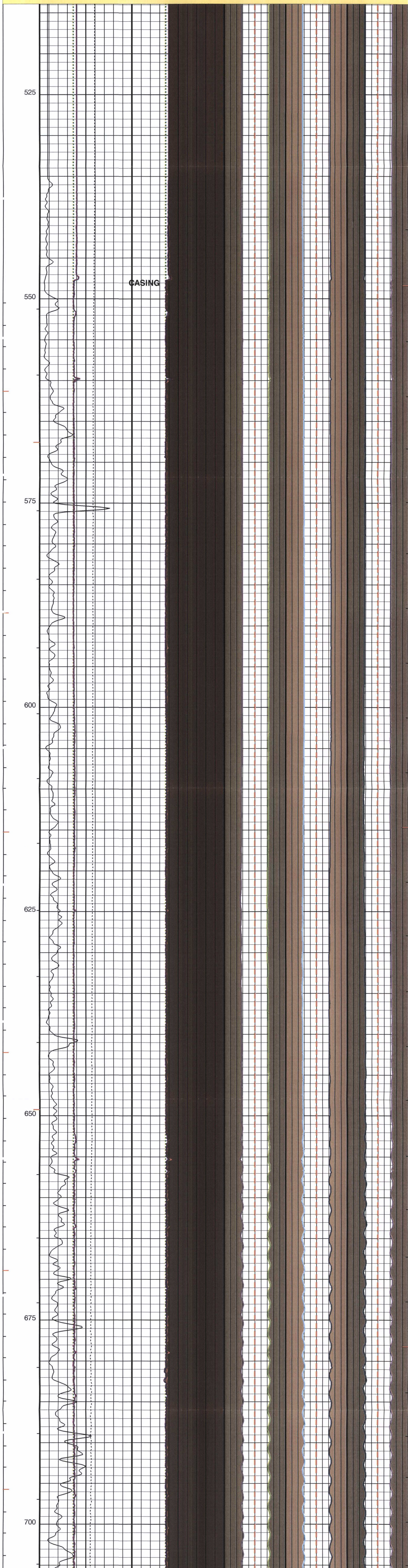
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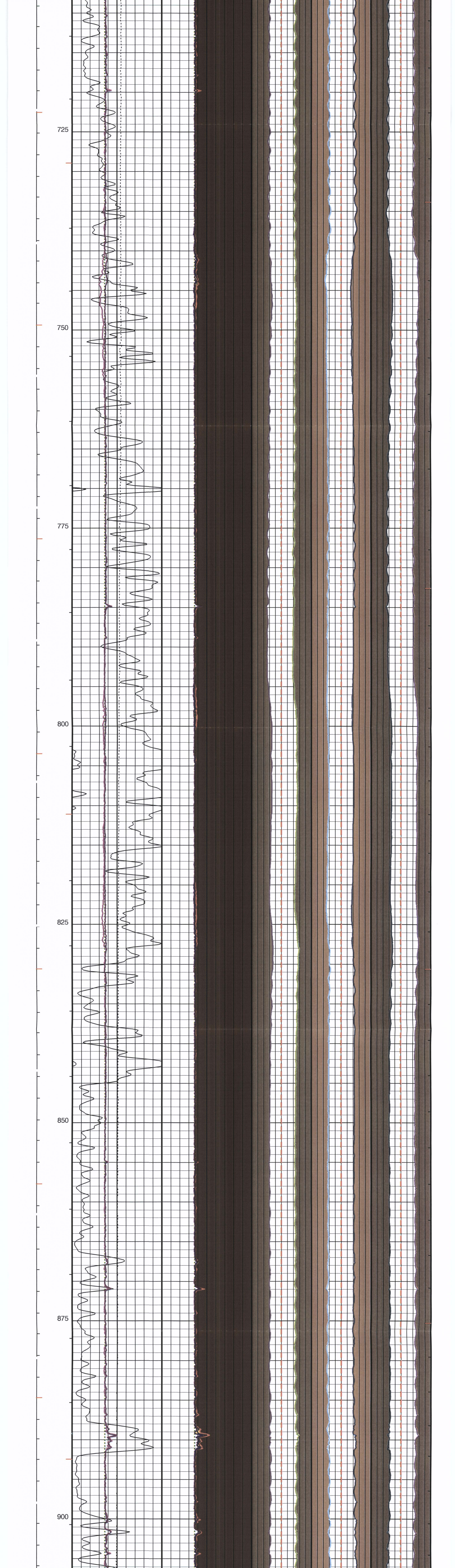
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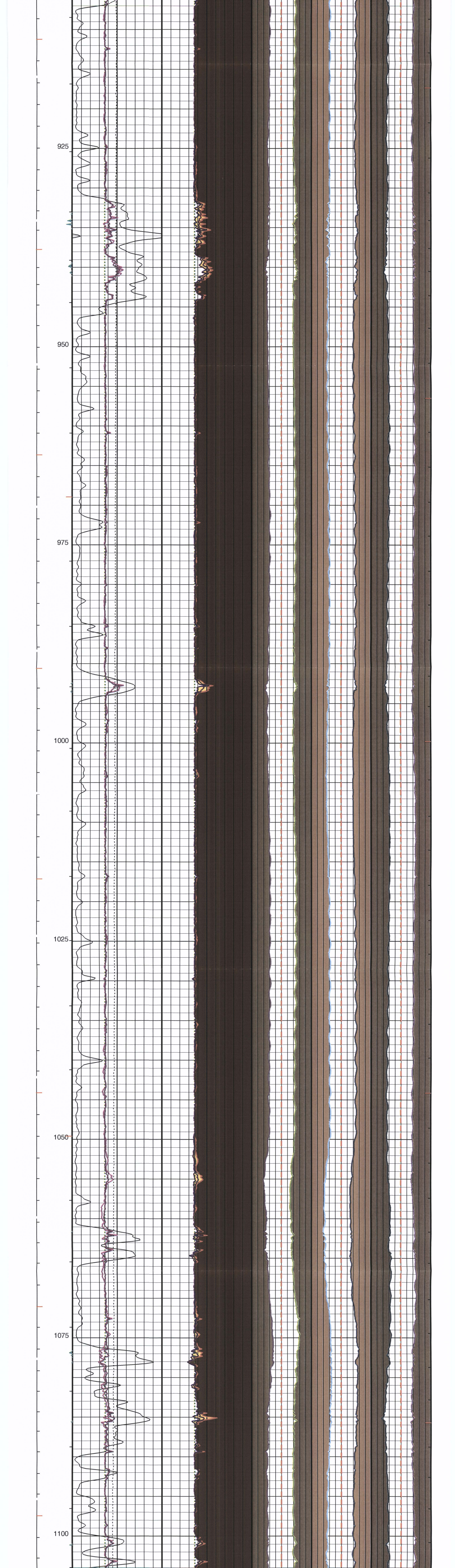
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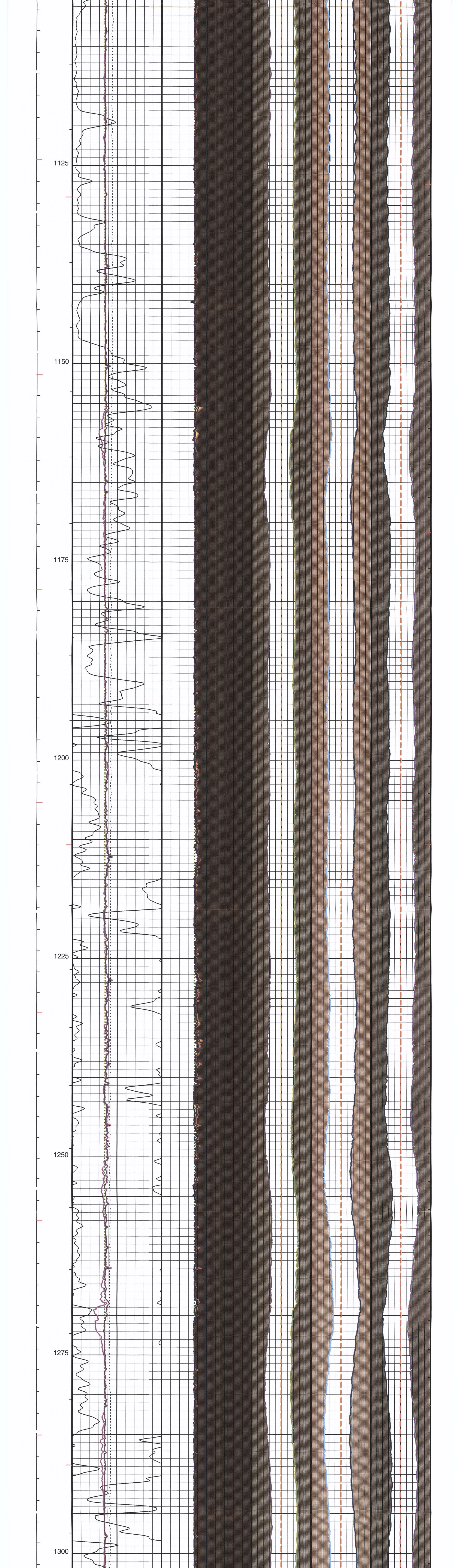
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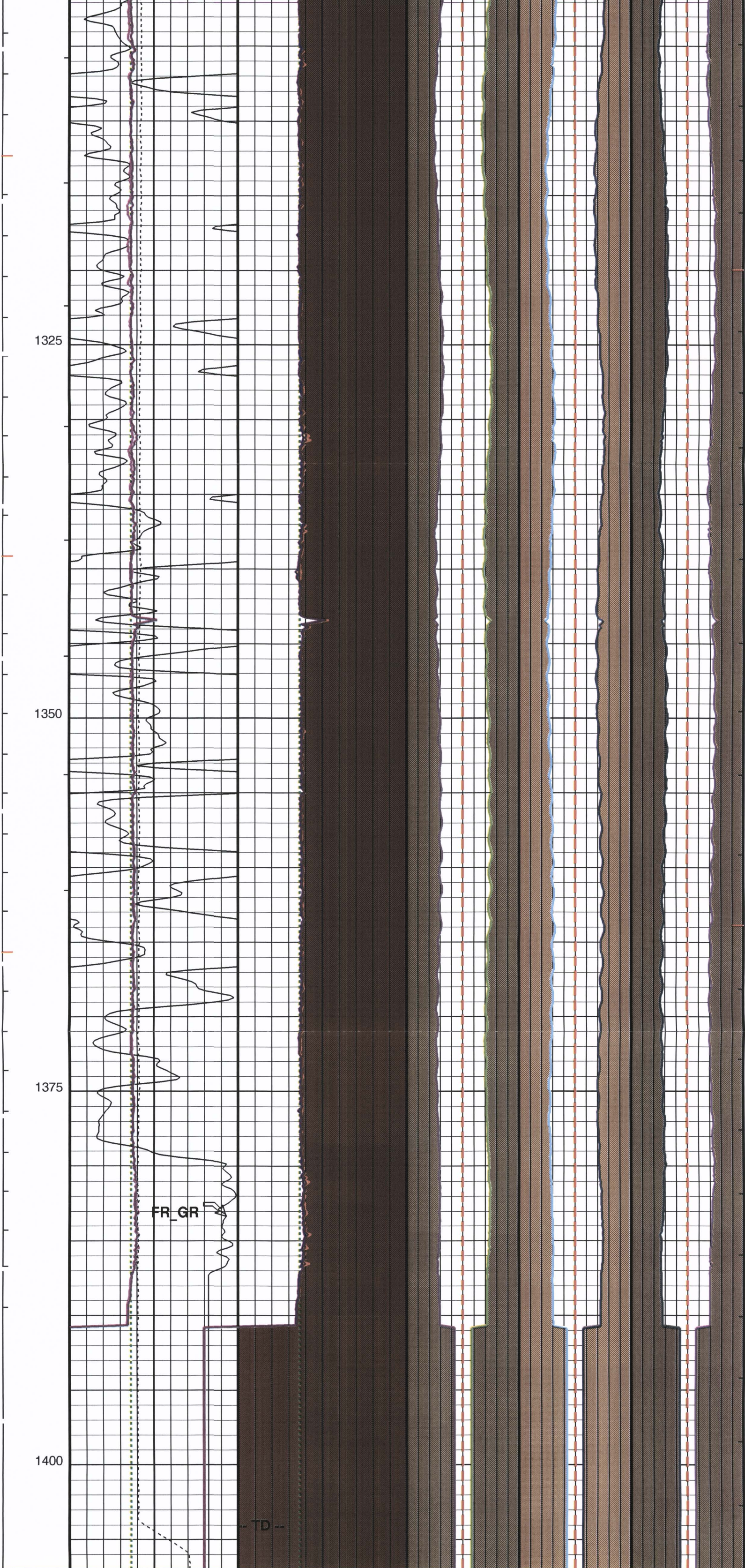
CASING











MAIN PASS: *** ENVIRONMENTAL MEASUREMENT ***

EMS Fixed Caliper Flag (EFCF) 0 () 20	Bit Size (BS) (MM) 125 375	Bit Size (BS) (MM) 125 375	EMS Tool Center (ETC1) (MM) 250 -250	EMS Tool Center (ETC2) (MM) 250 -250	EMS Tool Center (ETC3) (MM) 250 -250
Stuck Stretch (STIT) 0 (M) 20	Gamma Ray (GR) (GAPI) 0 150	Hole Diameter Maximum (HDMX) (MM) 125 375	Radius 1 (RD1) (MM) 250 -250	Radius 2 (RD2) (MM) 250 -250	Radius 3 (RD3) (MM) -250 250
Cable Drag From D4T to STIT	Hole Diameter 1 (HD1) (MM) 125 375	Hole Diameter Minimum (HDMI) (MM) 125 375	Radius 4 (RD4) (MM) -250 250	Radius 5 (RD5) (MM) -250 250	Radius 6 (RD6) (MM) 250 -250
Tool/Tot. Drag From D4T to STIA	Hole Diameter from Area (HDAR) (MM) 125 375	Hole Diameter from Area (HDAR) (MM) 125 375	Formation From RHT2 to RD1	Formation From LHT3 to RD2	Formation From RD3 to RHT3
Oval Standard Deviation (OSDV) 23 () 3	Tension (TENS) (N) 20000 0	HD difference From HDMI to HDMX	Formation From RD4 to RHT2	Formation From RD5 to LHT3	Formation From RHT3 to RD6
Fixed caliper flag From D4T to EFCF		Formation From HDMX to F2			
Probability angle for HDMI From D4T to CHAM					
Probability Angle for HDMI (CHAM) (DEG) 90 240					
Standard deviation for HDAR From OSDV to D4T					

PIP SUMMARY

Integrated Hole Volume Minor Pip Every 0.1 M3	Integrated Transit Time Minor Pip Every 1 MS
Integrated Hole Volume Major Pip Every 1 M3	Integrated Transit Time Major Pip Every 10 MS
Integrated Cement Volume Minor Pip Every 0.1 M3	
Integrated Cement Volume Major Pip Every 1 M3	
Time Mark Every 60 S	

Parameters

DLIS Name	Description	Value
ITTS	DSST-B: Dipole Shear Imager - B	
ECOF	Integrated Transit Time Source	DTCO
EFC	EMS-B: Environment Measurement Sonde	
ESCL	EMS Caliper Offset	50.8 MM
FCD	EMS Fixed Caliper Operation	OFF
HVCS	EMS Synthetic Caliper Log	OFF
	Future Casing (Outer) Diameter	177.8 MM
	Integrated Hole Volume Caliper Selection	EMS_Calipers
FCD	HOLEV: Integrated Hole/Cement Volume	
HVCS	Future Casing (Outer) Diameter	177.8 MM
	Integrated Hole Volume Caliper Selection	EMS_Calipers
LBFR	STI: Stuck Tool Indicator	
STKT	Trigger for MAXIS First Reading Label	TDL
TDD	STI Stuck Threshold	1.524 M
TDL	Total Depth - Driller	1404.20 M
	Total Depth - Logger	1404.00 M
BS	System and Miscellaneous	
DO	Bit Size	216.000 MM
PP	Depth Offset for Playback	0.0 M
PD	Playback Processing	NORMAL
	Total Depth	1404 M

Format: EMS_Caliper1 Vertical Scale: 1:240 Graphics File Created: 19-Mar-2004 11:51

OP System Version: 11C0-305

MCM

DSST-B	OP11-KP1	EMS-B	11C0-305
SGT-N	11C0-305	DTC-H	11C0-305

Input DLIS Files

DEFAULT	DSI_EMS_018LUP	FN:39	PRODUCER	19-Mar-2004 10:16	1407.0 M	-4.6 M
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Output DLIS Files

DEFAULT	DSI_EMS_021PUP	FN:44	PRODUCER	19-Mar-2004 11:51
BACKUP	DSI_EMS_021PUP	FN:45	PRODUCER	19-Mar-2004 12:01
CUST	DSI_EMS_021PUP	FN:46	PRODUCER	19-Mar-2004 11:51

Input DLIS Files

DEFAULT	DSI_EMS_018LUP	FN:39	PRODUCER	19-Mar-2004 10:16	1407.0 M	-4.6 M
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Output DLIS Files

DEFAULT	DSI_EMS_021PUP	FN:44	PRODUCER	19-Mar-2004 11:51	1407.0 M	513.9 M
BACKUP	DSI_EMS_021PUP	FN:45	PRODUCER	19-Mar-2004 12:01	1407.0 M	513.9 M
CUST	DSI_EMS_021PUP	FN:46	PRODUCER	19-Mar-2004 11:51	1407.0 M	513.9 M

Integrated Hole/Cement Volume Summary

Hole Volume = 31.49 M3
Cement Volume = 10.24 M3 (assuming 177.80 MM casing O.D.)
Computed from 1403.9 M to 548.0 M using data channel(s) RD1 RD2 RD3 RD4 RD5 RD6

OP System Version: 11C0-305

ETSI
MCM

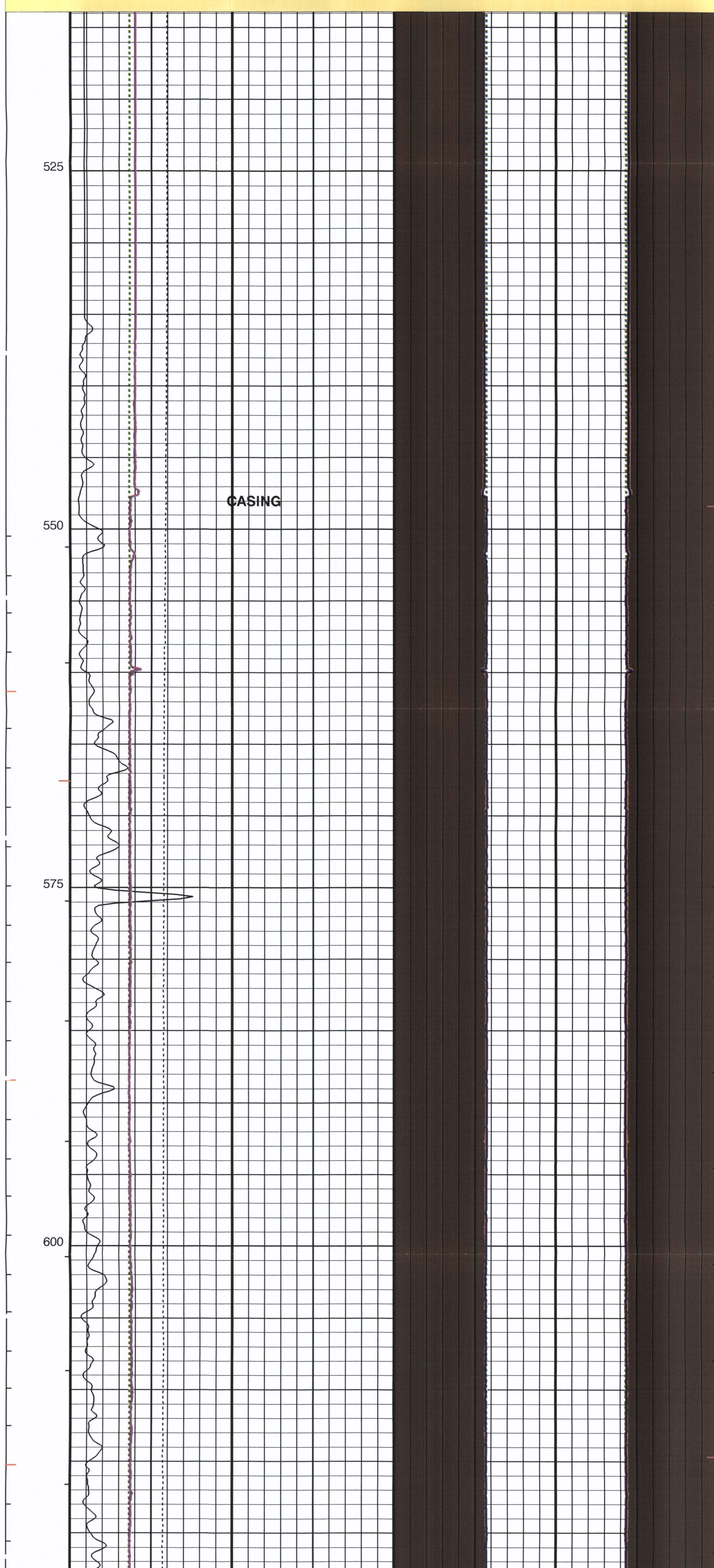
DSST-B	OP11-KP1	EMS-B	11C0-305
SGT-N	11C0-305	DTC-H	11C0-305

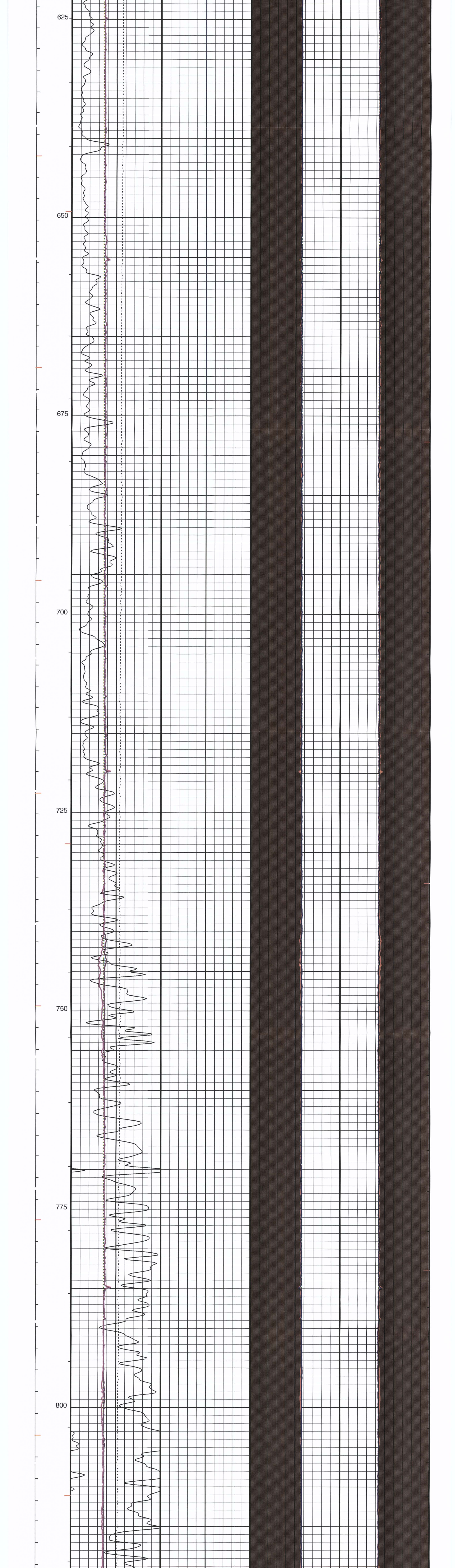
- PIP SUMMARY
- └ Integrated Hole Volume Minor Pip Every 0.1 M3
 - └ Integrated Hole Volume Major Pip Every 1 M3
 - └ Integrated Cement Volume Minor Pip Every 0.1 M3
 - └ Integrated Cement Volume Major Pip Every 1 M3

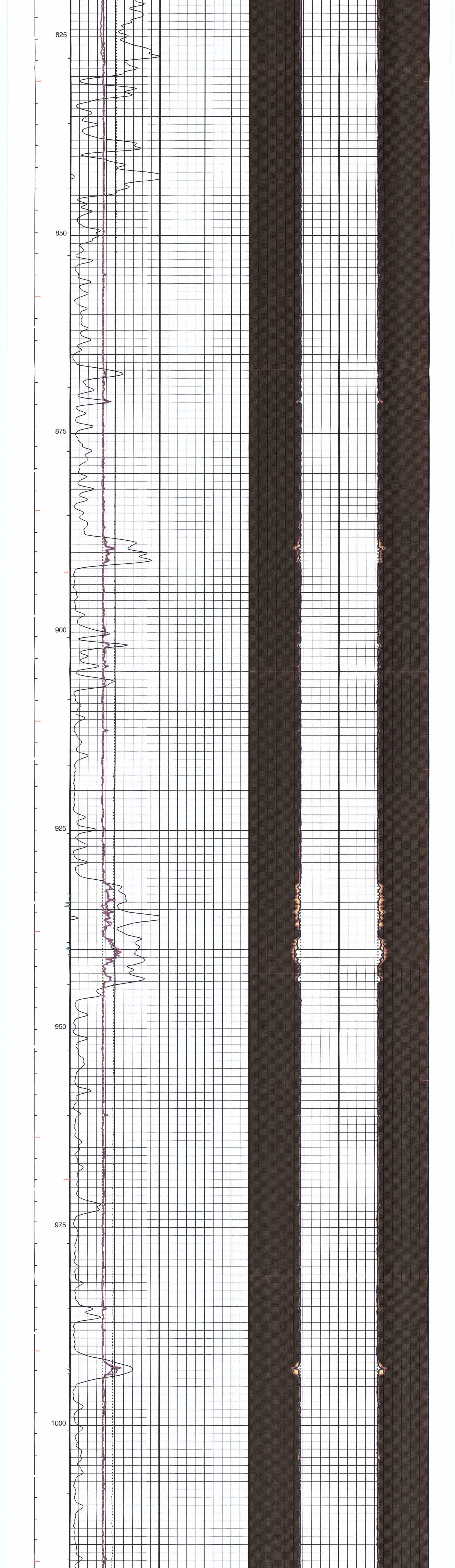
Time Mark Every 60 S

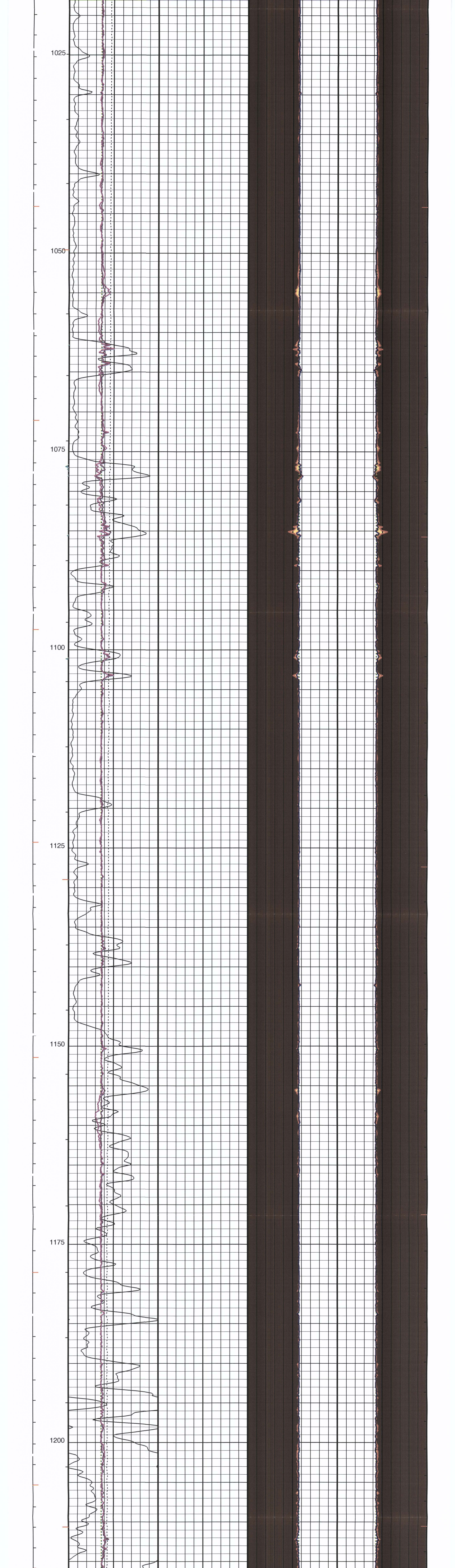
Standard deviation for HDAR From OSDV to D4T					
Probability Angle for HDMI (CHAM) (DEG)	90	240			
Probabilit y angle for HDMI From D4T to CHAM					
Fixed caliper flag From D4T to EFCF					
Oval Standard Deviation (OSDV)	Tension (TENS) 20000 (N)	0			
Tool/Tot. Drag From D4T to STIA	Hole Diameter 1 (HD1) 125 (MM)	375			
Cable Drag From D4T to STIT	Hole Diameter from Area (HDAR) 125 (MM)	375			
Stuck Stretch (STIT)	Gamma Ray (GR) 0 (M)	20			
EMS Fixed Caliper Flag (EFCF)	Bit Size (BS) 125 (MM)	375			

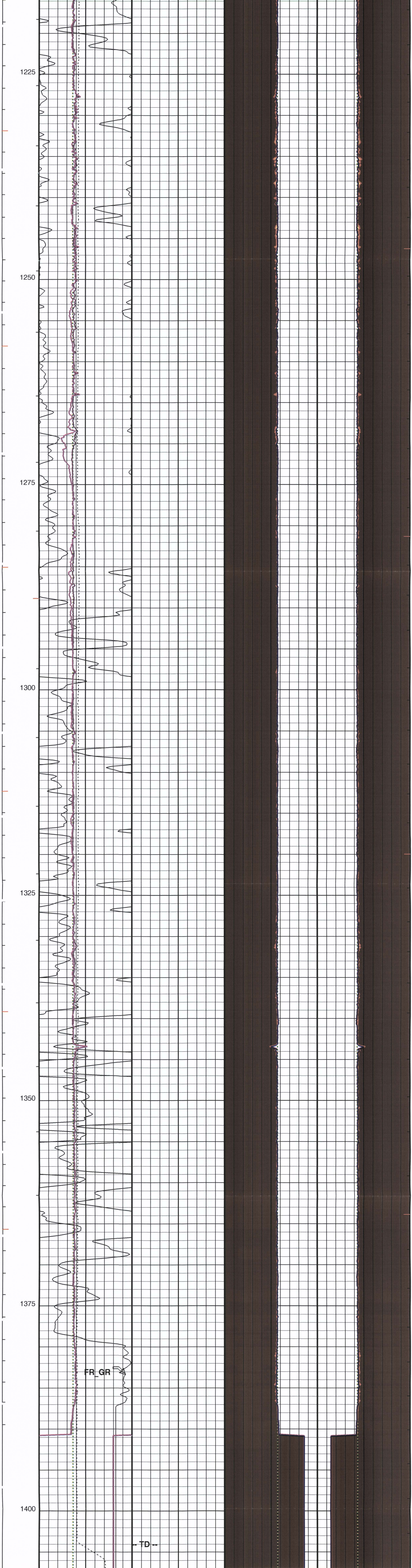
Formation From F3 to HDMX_1	Formation From HDMX_2 to F4
HD difference From HDMX_1 to HDMI_1	HD difference From HDMI_2 to HDMX_2
Hole Diameter Minimum (HDMI) 500 (MM)	Hole Diameter Minimum (HDMI) (MM)
0 0	500
Hole Diameter Maximum (HDMX) 500 (MM)	Hole Diameter Maximum (HDMX) (MM)
0 0	500
Bit Size (BS) 500 (MM)	Bit Size (BS) (MM)
0 0	500

MAIN PAGE [about](#) ENVIRONMENTAL MEASUREMENT [about](#)



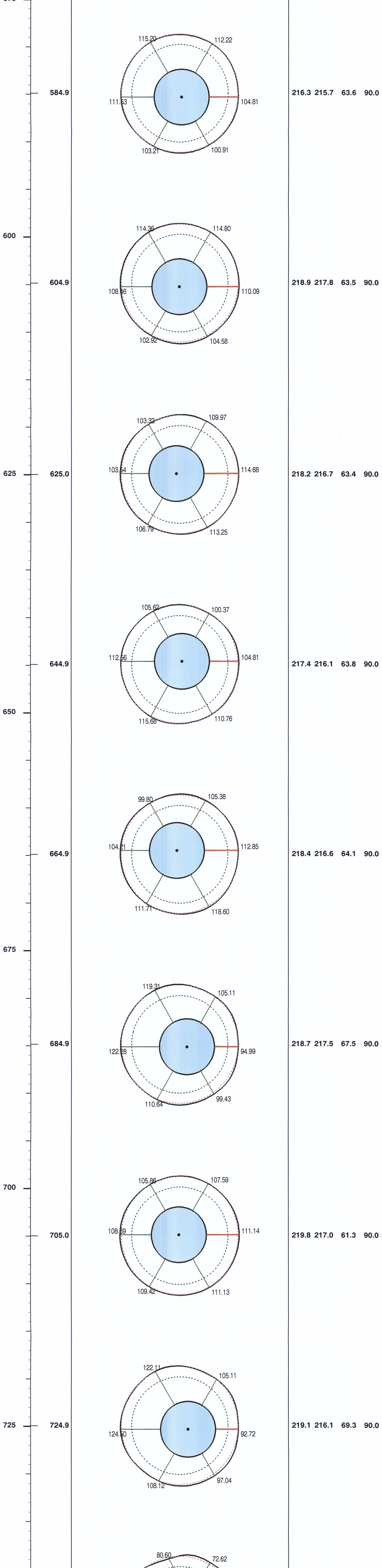


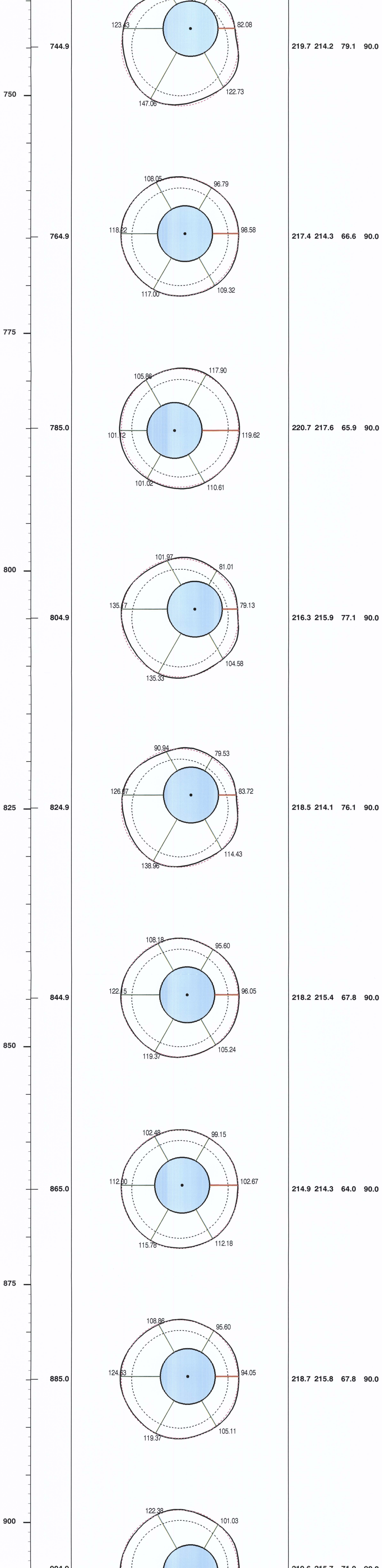


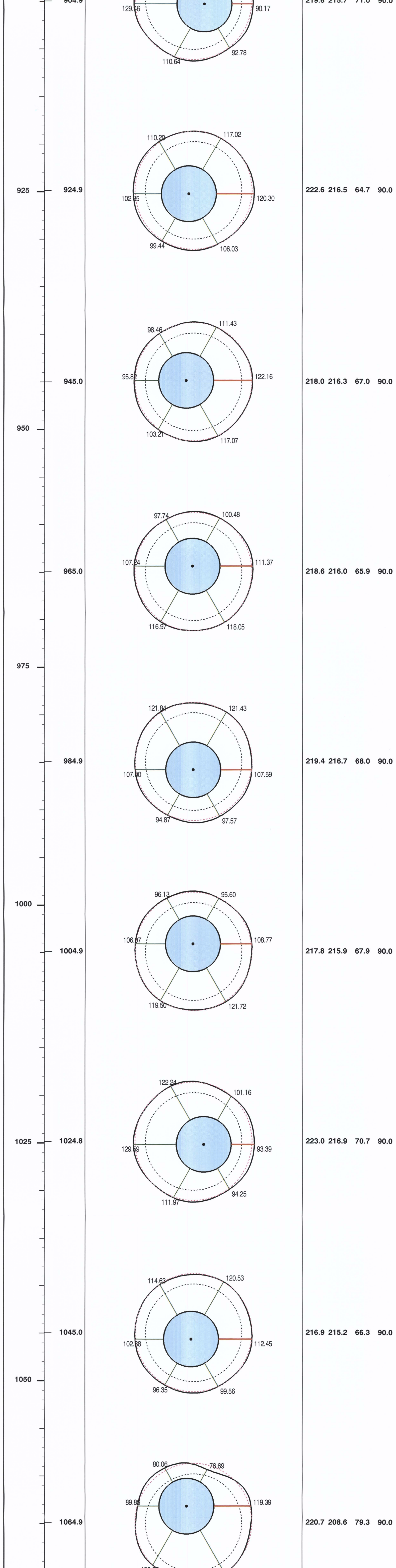


MAIN PASS: *** ENVIRONMENTAL MEASUREMENT ***

EMS Fixed Caliper Flag (EFCF)	Bit Size (BS)			Bit Size (BS)			Bit Size (BS)	
	125	375		500	0 0		500	500
0 0 20	(MM)	(MM)		(MM)	(MM)		(MM)	(MM)

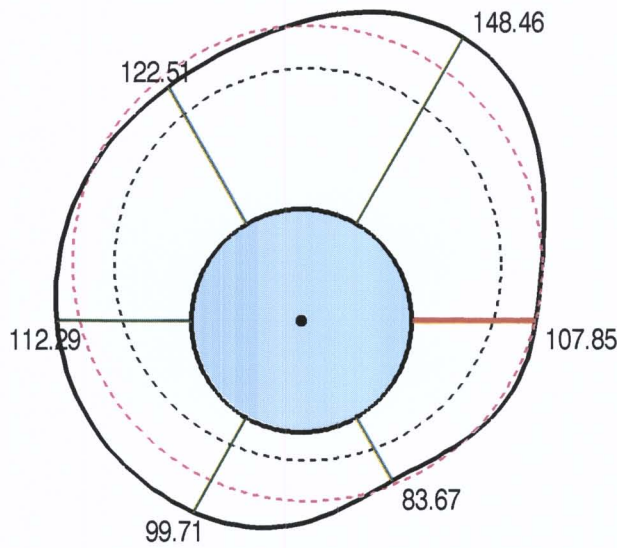






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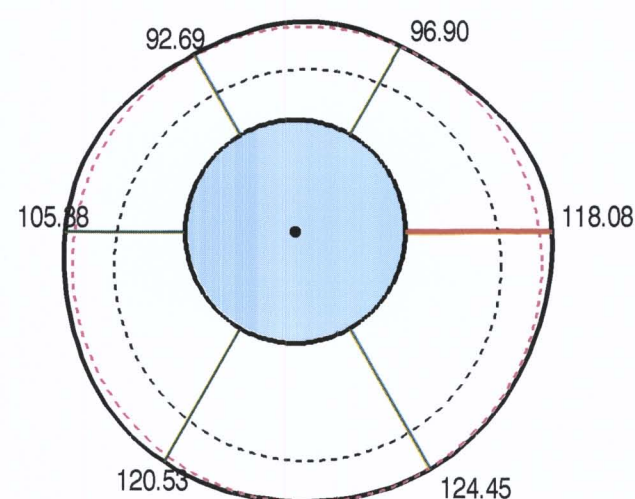
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248.2 209.5 73.7 90.0

1100

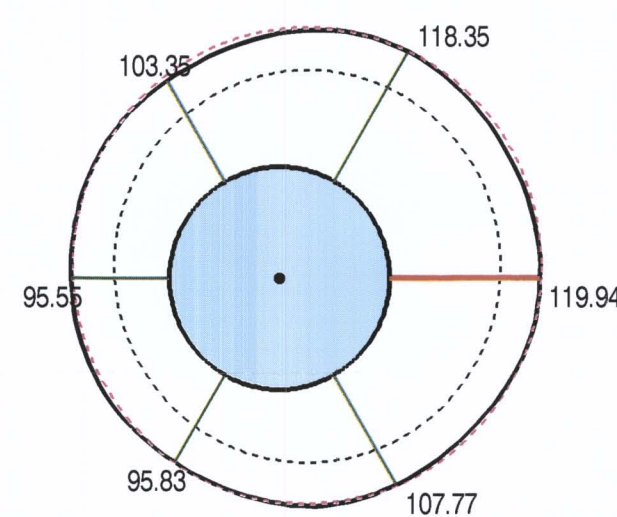
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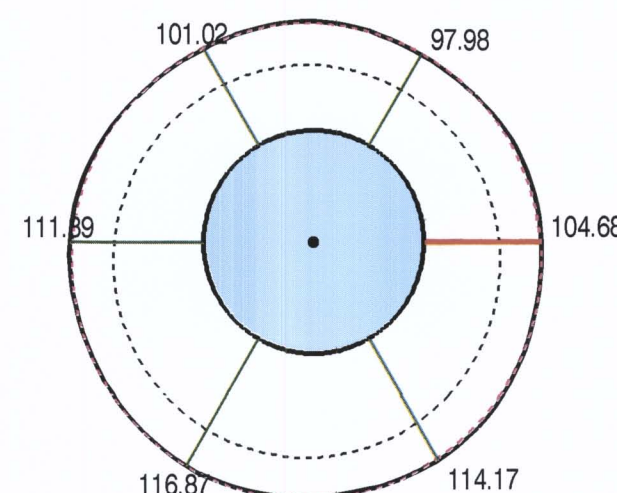
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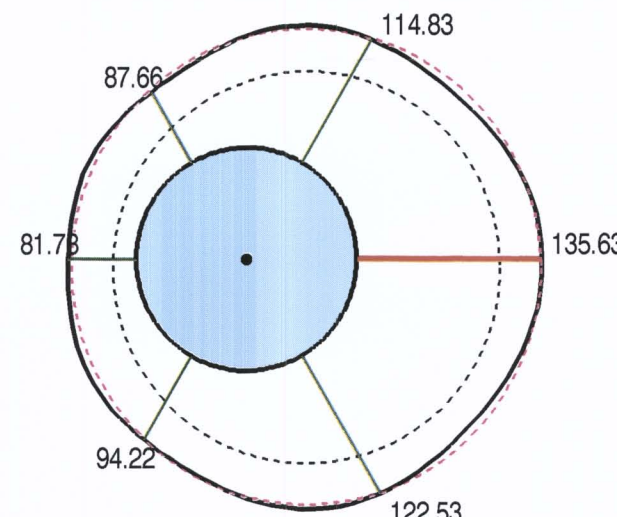
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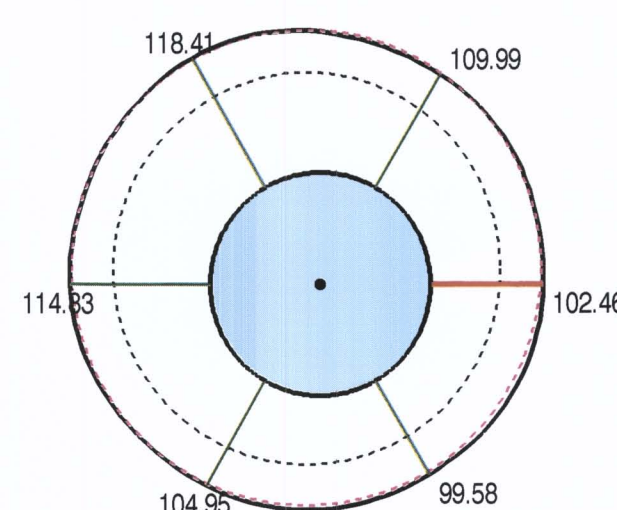
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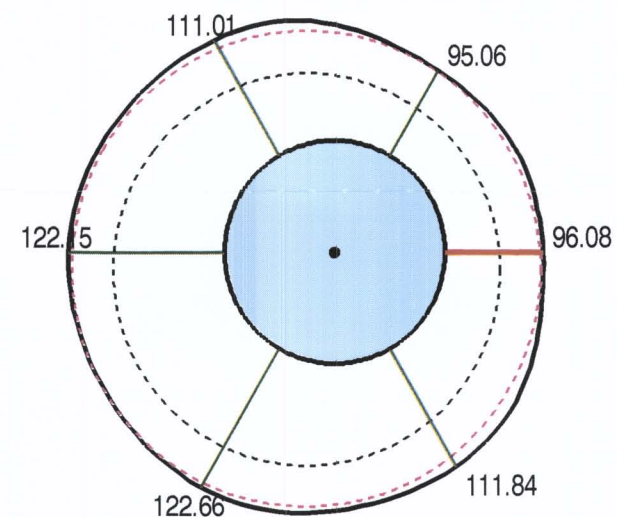
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1225

1224.9



222.8 218.2 68.2 90.0

