

OTHER SERVICES1	OTHER SERVICES2
OS1: 2.APS-PEX-CMR-ECS	OS1:
OS2: HNGS	OS2:
OS3: 3.FMI-MSIP-EMS	OS3:
OS4: 4.MRX	OS4:
OS5:	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
ZAIT LOGGED WITH 2.5in STANDOFF AND ECCENTERED WITH PPC	
APS HAS LARGE HOLE KIT INSTALLED	
HRLT CENTERED WITH LCME'S	
PPC 1 HAS LARGE HOLE KIT INSTALLED AND SET TO ALL POWERED	
PPC 2 HAS LARGE HOLE KIT INSTALLED AND SET TO ECCENTER	
EMS HAS LARGE HOLE KIT INSTALLED	
BS = 9.875" FROM TD-1296M	

BS = 14.25" FROM 1296-SC

REPEAT PERFORMED OVER 850-1150M

SLB ONLY LOGGED DOWN TO 1296M

APS MINITRON PRESSURE READING 4PSI ,SO DID NOT POWER UP MINITRON.

WILL ADD APS BACKUP TO RUN 2

ZAIT ARRAY INDUCTION PLUS VOLT AGE IN HOUSTON MASTERCAL

AS WELL AS MALLIK BEFORE CALIBRAION FLAGGED

RIG: AKITA 62

CREW: JAMES MACDONALD / MARK KIMBALL / MIKE KLOC

RUN 1			RUN 2		
SERVICE ORDER #: PROGRAM VERSION: 14C0-302 FLUID LEVEL:			SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1			RUN 2		
-------	--	--	-------	--	--

SURFACE EQUIPMENT

SFT-281 12673
SFT-178 53
WITM (EDTS)-A

DOWNHOLE EQUIPMENT

LEH-QT

37.08

AH-169 2779

Mud Tempe

EDTC-B 8265

EDTH-B 8253

EDTC-B

35.79

34.72

34.15

33.80

36.19

35.79

PPC1-B 8148

Calipers

PPC1-B

PPC_CAL_40EXT

PPC_Cartr

33.46

31.82

33.80

AH-255(+45D) 8053

31.82

AH-SFT

31.60

GPIT-C 1943

GPIC-C

30.38

AH-SFT

29.16

AH-SFT

Mud Resis

Mud Tempe

27.76

27.51

27.94

EMA-B 8018

RES

EMC-B 8035

ECH-KH 8045

EMM-B 8102

Calipers

24.63

HRLT-B

HRUH-B 983

HRUC-B 980

HRLS-B 973

HRLH-B 972

HRLC-B 976

AH-270 1718

High Res.

20.01

23.60

AH-224

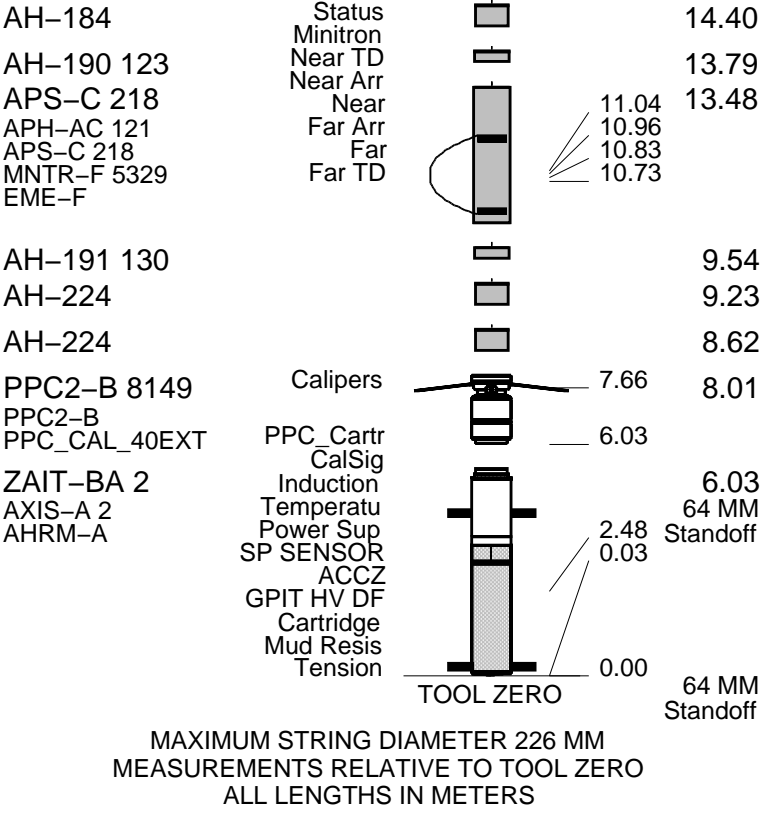
16.22

AH-184

15.61

AH-184

15.01



MAIN PASS: ENVIRONMENTAL MEASUREMENT CALIPER

MAXIS Field Log

Input DLIS Files						
DEFAULT	AIT_CAL_APS_HRLA_070PUP	FN:78	PRODUCER	06-Mar-2007 12:43	1295.2 M	557.0 M
Output DLIS Files						
DEFAULT	AIT_CAL_APS_HRLA_085PUP	FN:98	PRODUCER	06-Mar-2007 14:16	1295.2 M	525.2 M
CLIENT_DATA_NOA	AIT_CAL_APS_HRLA_085PUP	FN:99	PRODUCER	06-Mar-2007 14:16	1295.2 M	525.2 M

Integrated Hole/Cement Volume Summary

Hole Volume = 73.99 M3
Cement Volume = 44.97 M3 (assuming 244.47 MM casing O.D.)
Computed from 1295.2 M to 677.1 M using data channel(s) CRD1_PPC1 CRD2_PPC1 CRD3_PPC1 CRD4_PPC1

OP System Version: 14C0-302

MCM

ZAIT-BA	SPC-3254-ZAIT-B_t	PPC2-B	SKK-3060-PPCB_b
APS-C	14C0-302	HRLT-B	14C0-302
EMS-B	14C0-302	GPIT-C	14C0-302
PPC1-B	SKK-3060-PPCB_b	EDTC-B	SKK-3248-EDTCB_b

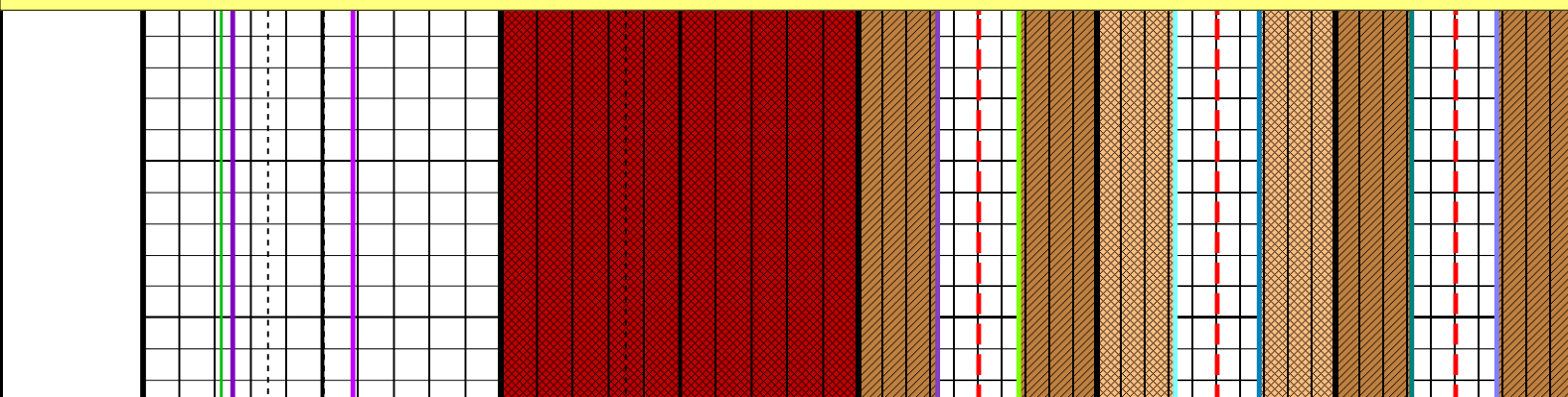
PIP SUMMARY

Integrated Hole Volume Minor Pip Every 0.1 M3
Integrated Hole Volume Major Pip Every 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	Formation From HDMX to F2									
Oval Standard Deviation (OSDV)	Tension (TENS) 25000 (N) 0		HD difference From HDMI to HDMX		Formation From RD4 to RHT2	Formation From RD5 to LHT3	Formation From RHT3 to RD6			
23 () 3										
Tool/Tot. Drag From D4T to STIA	Hole Diameter from Area (HDAR) 275 (MM) 525		Hole Diameter from Area (HDAR) 275 (MM) 525		Formation From RHT2 to RD1	Formation From LHT3 to RD2	Formation From RD3 to RHT3			
Cable Drag From D4T to STIT	Hole Diameter 1 (HD1) 275 (MM) 525		Hole Diameter Minimum (HDMI) 275 (MM) 525		Radius 4 (RD4) -250 (MM) 250	Radius 5 (RD5) -250 (MM) 250	Radius 6 (RD6) 250 (MM) -250			
Stuck Stretch (STIT)	Gamma Ray (GR_EDTC) 0 (M) 20		Hole Diameter Maximum (HDMX) 275 (MM) 525		Radius 1 (RD1) 250 (MM) -250	Radius 2 (RD2) 250 (MM) -250	Radius 3 (RD3) -250 (MM) 250			
EMS Fixed Caliper Flag (EFCF)	Bit Size (BS) 275 (MM) 525		Bit Size (BS) 275 (MM) 525		EMS Tool Center (ETC1) 250 (MM) -250	EMS Tool Center (ETC2) 250 (MM) -250	EMS Tool Center (ETC3) 250 (MM) -250			

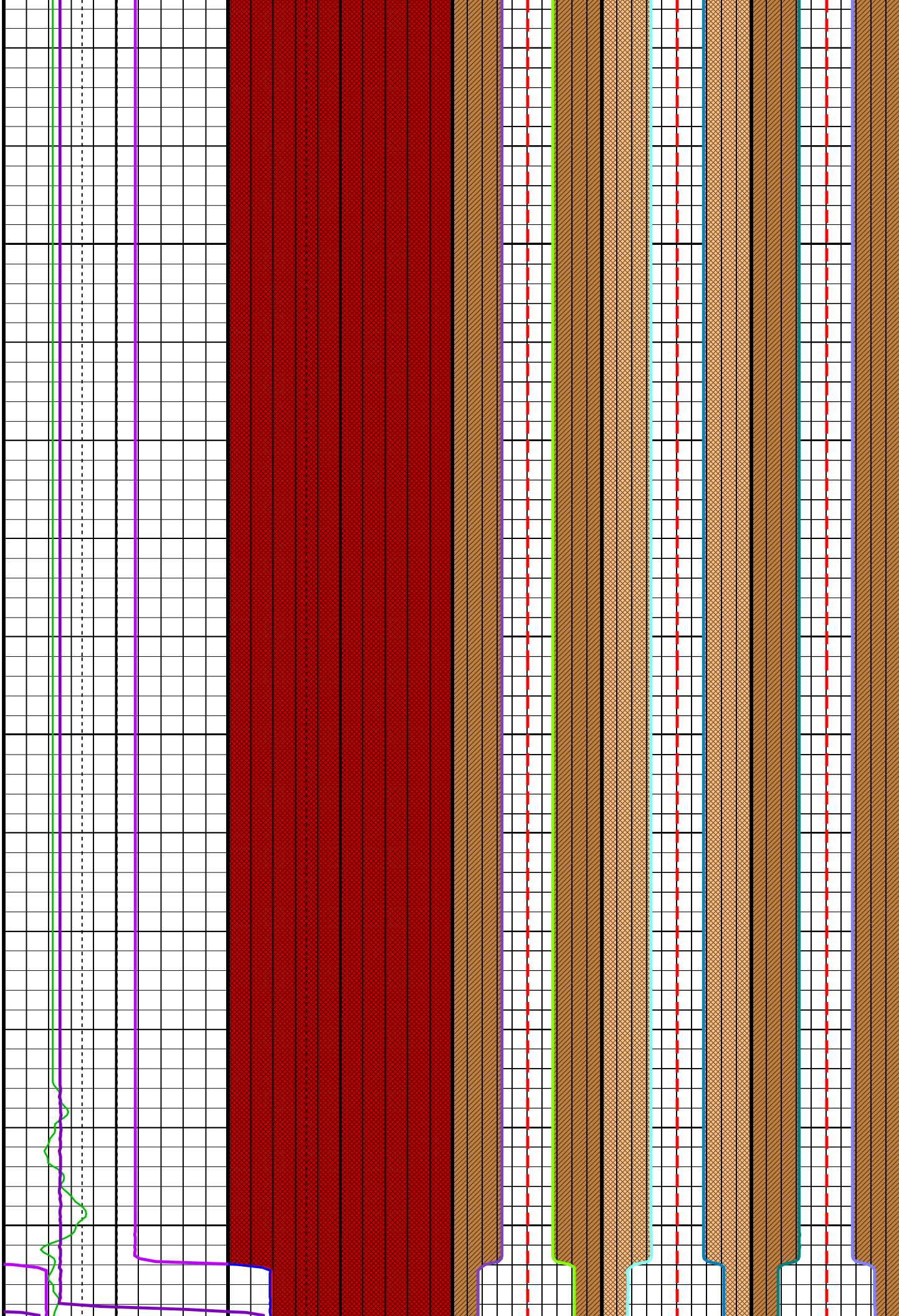
MAIN PASS: * ENVIRONMENTAL MEASUREMENT *****



550

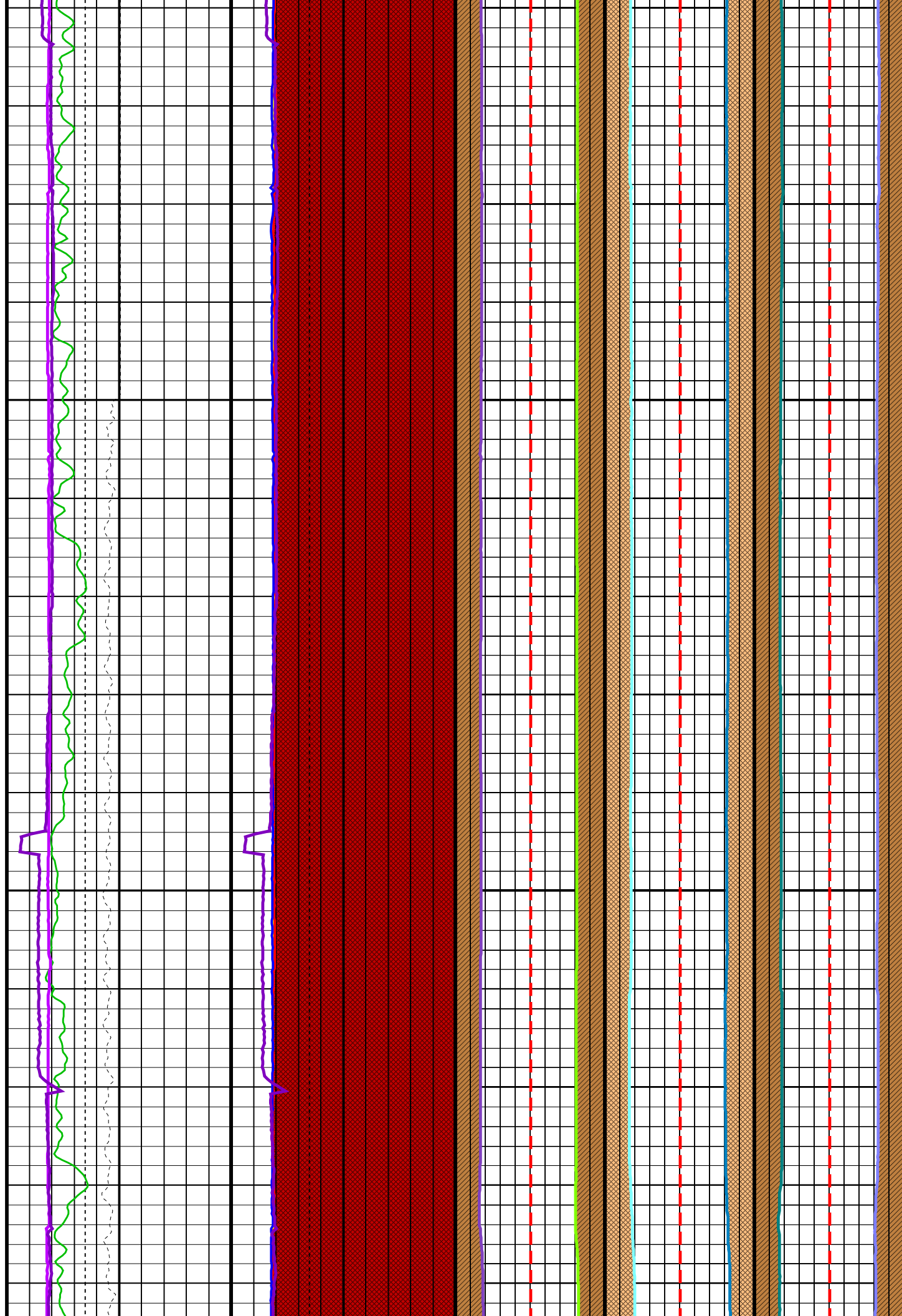
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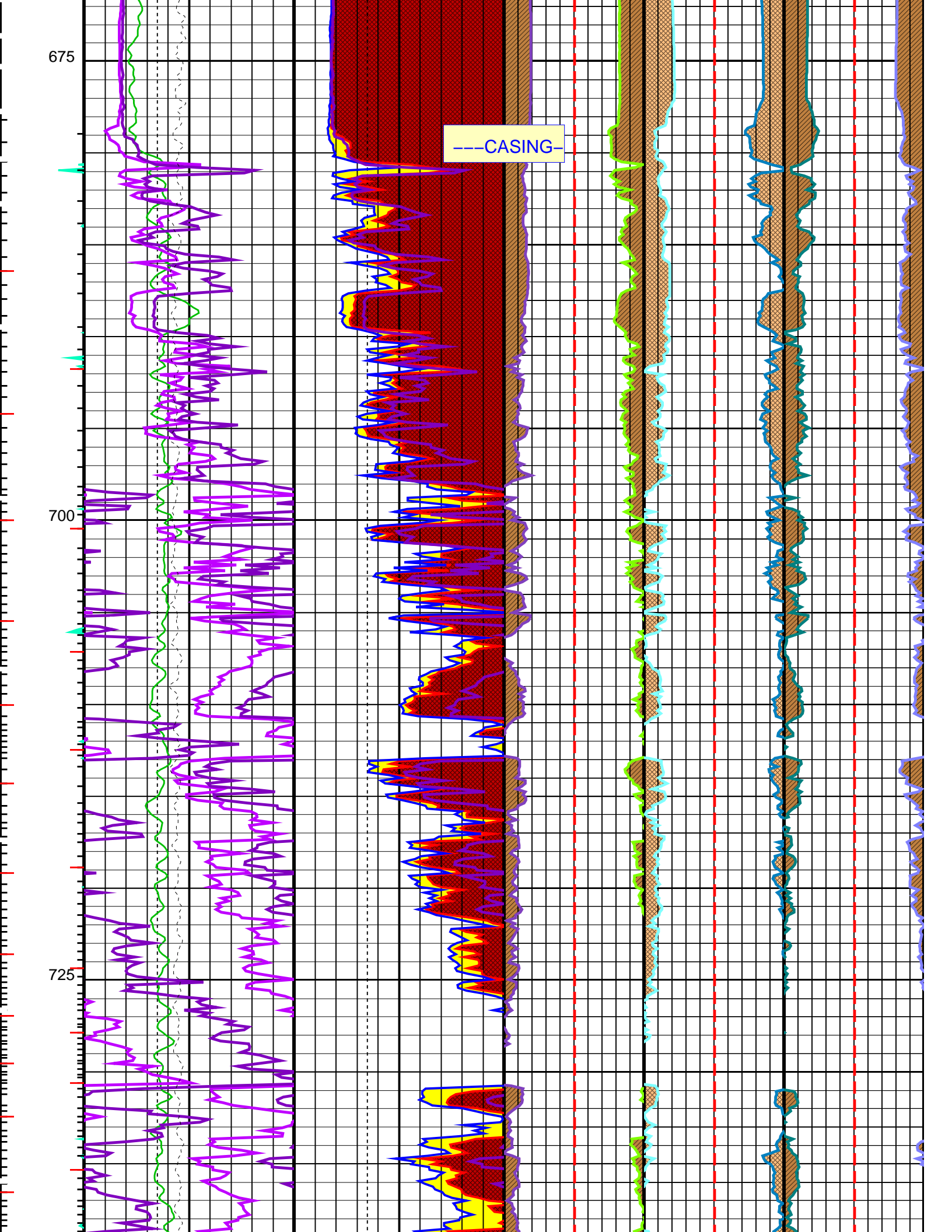
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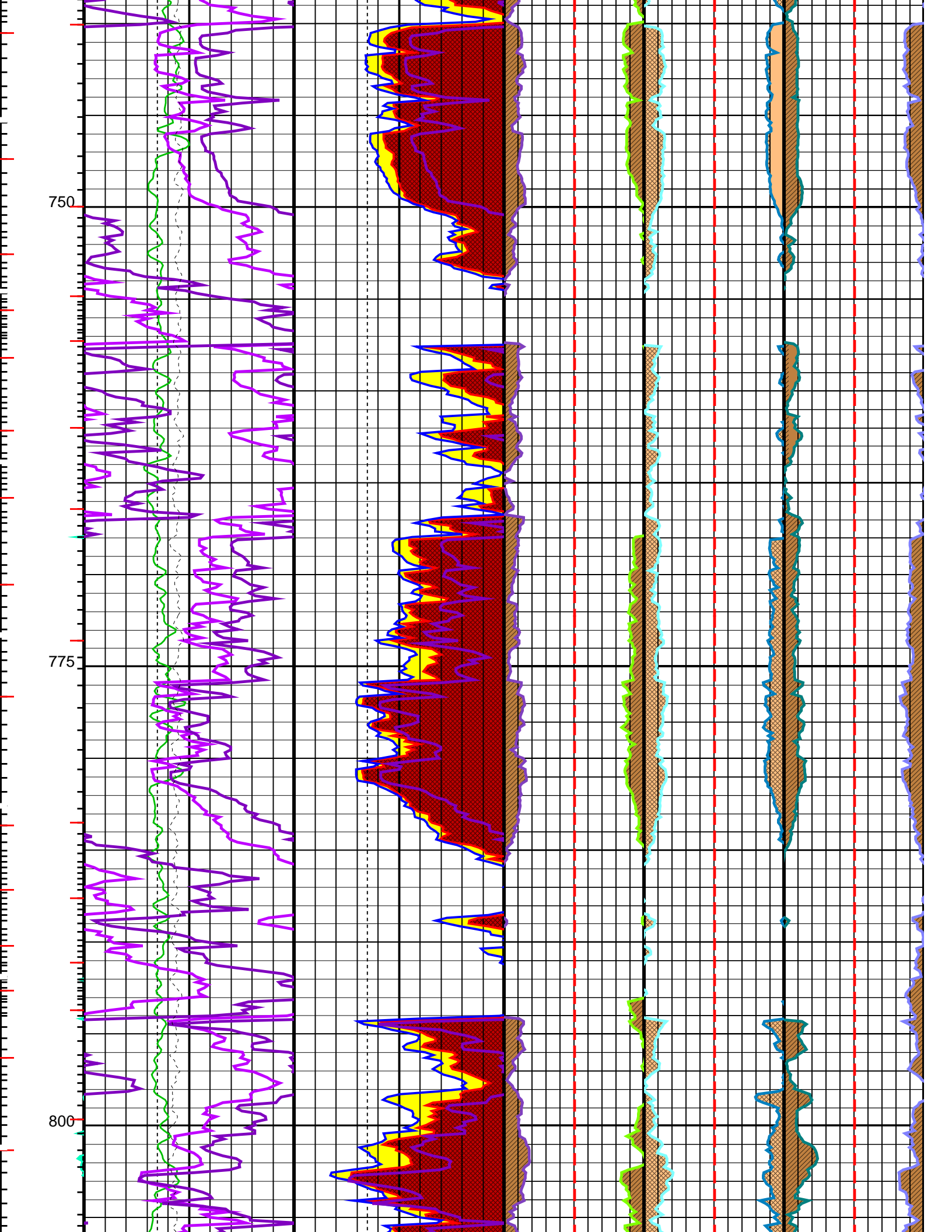


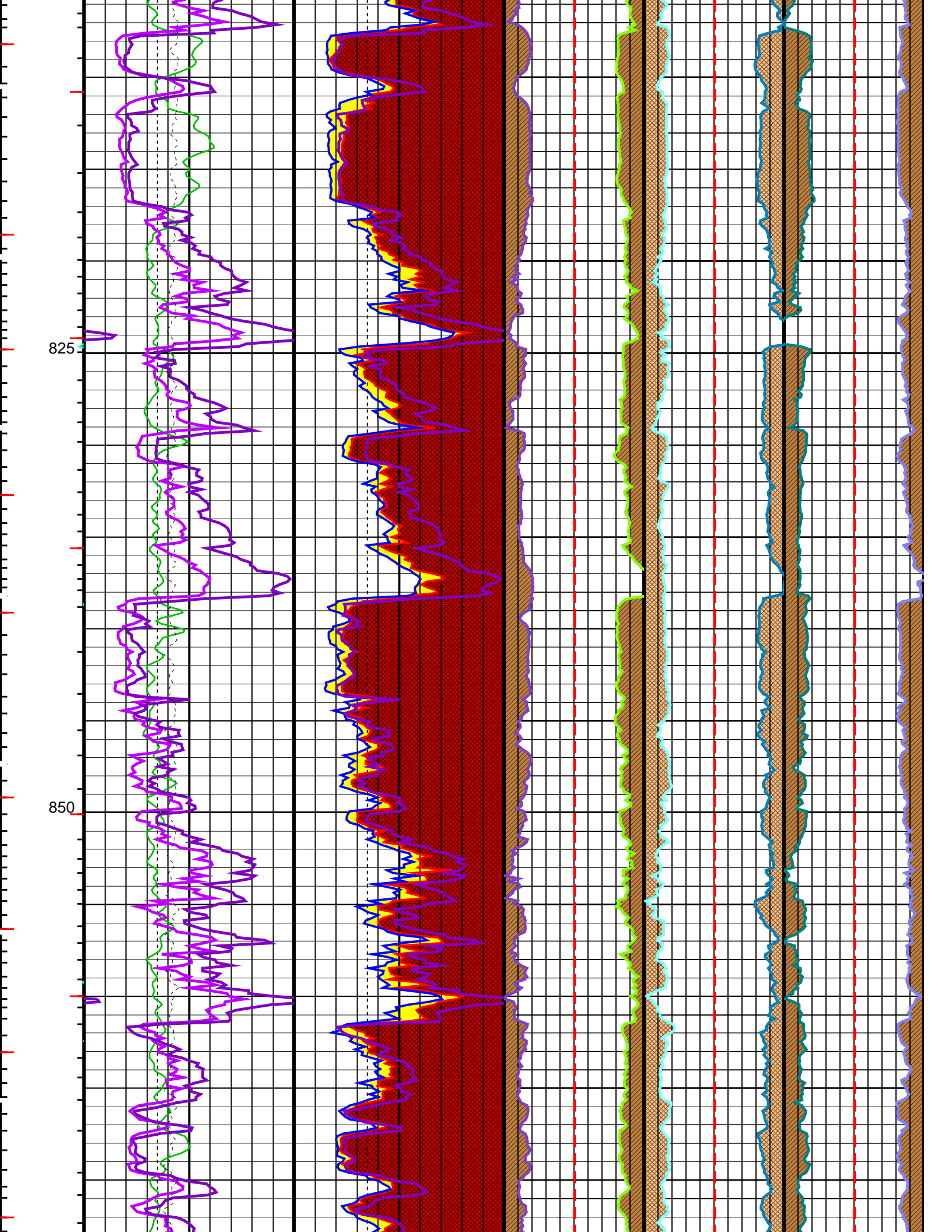
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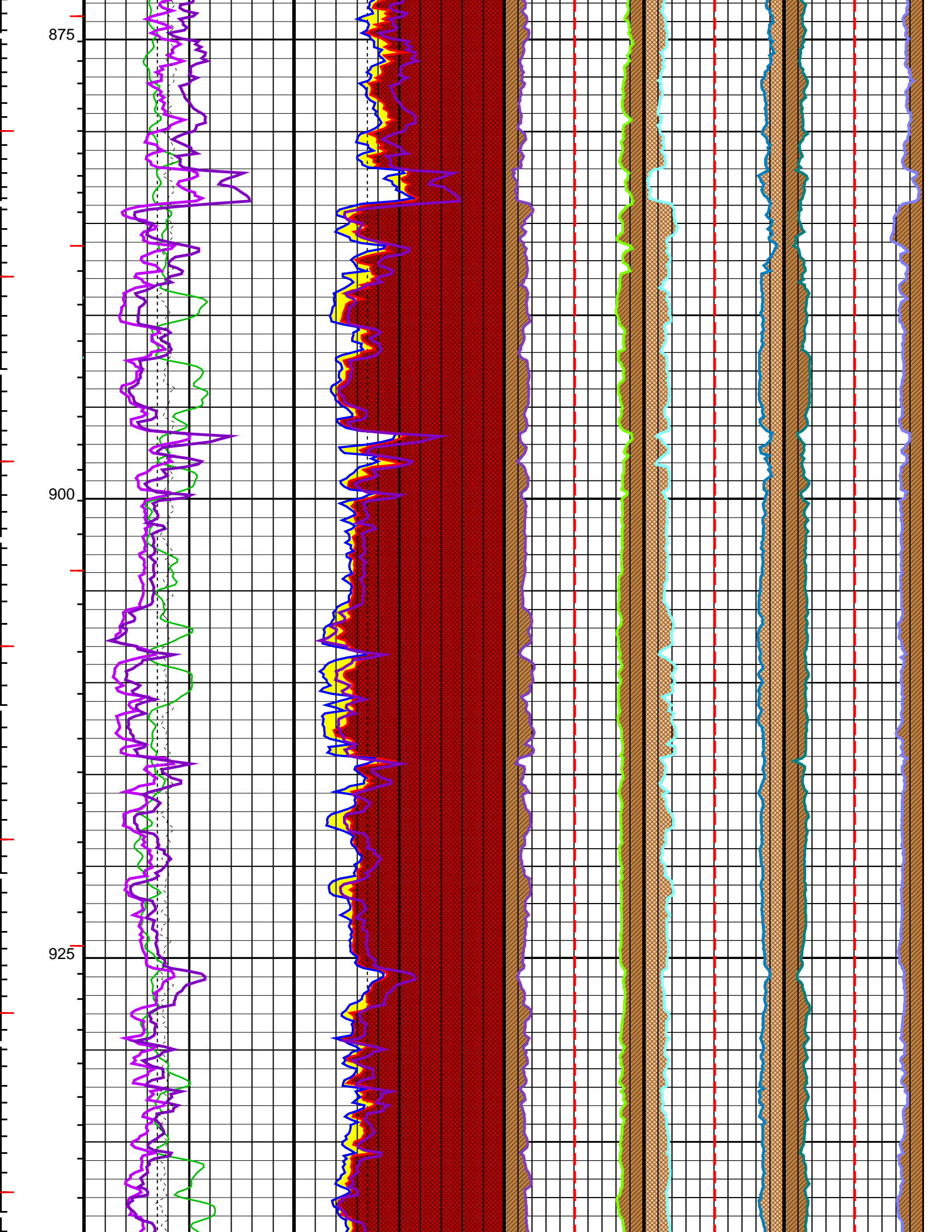
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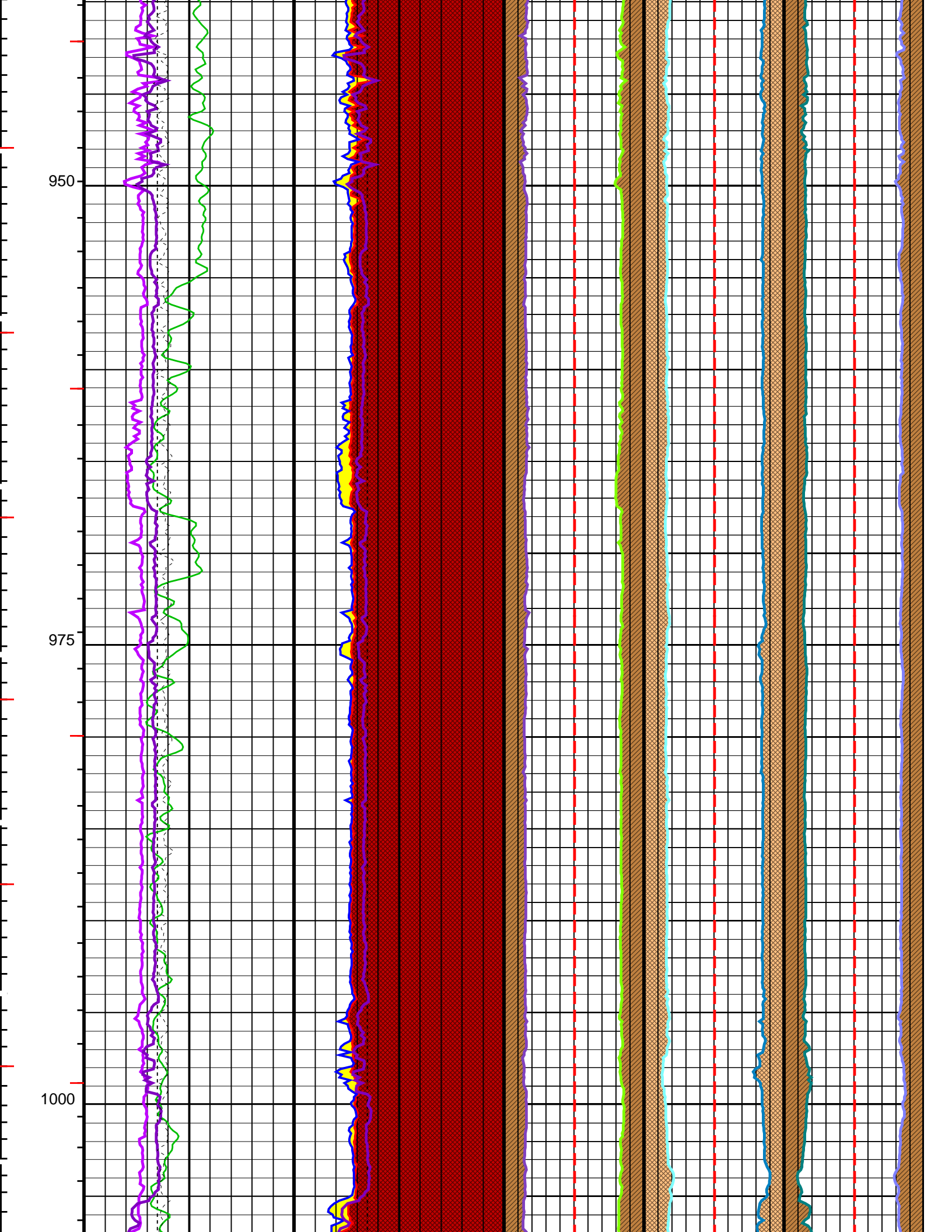


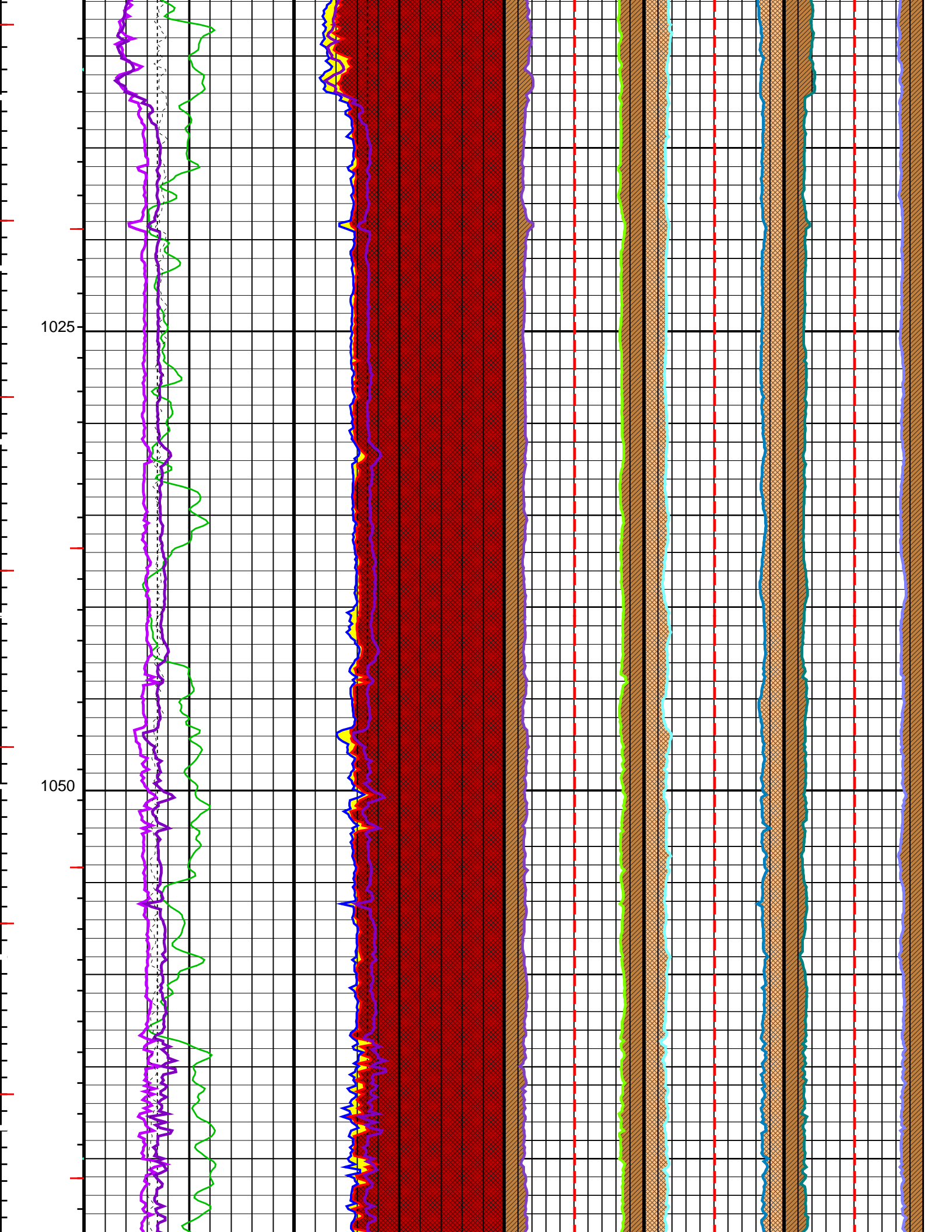


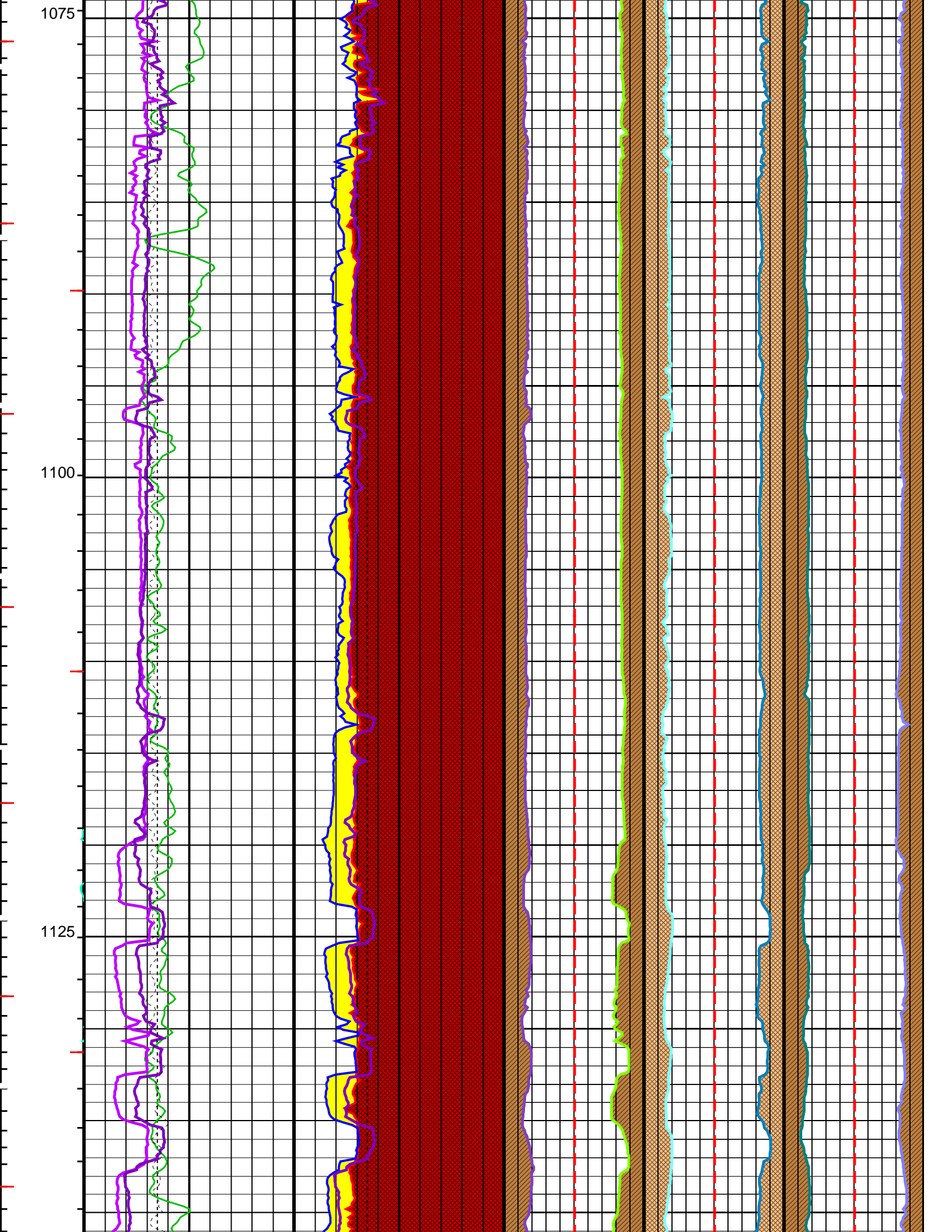


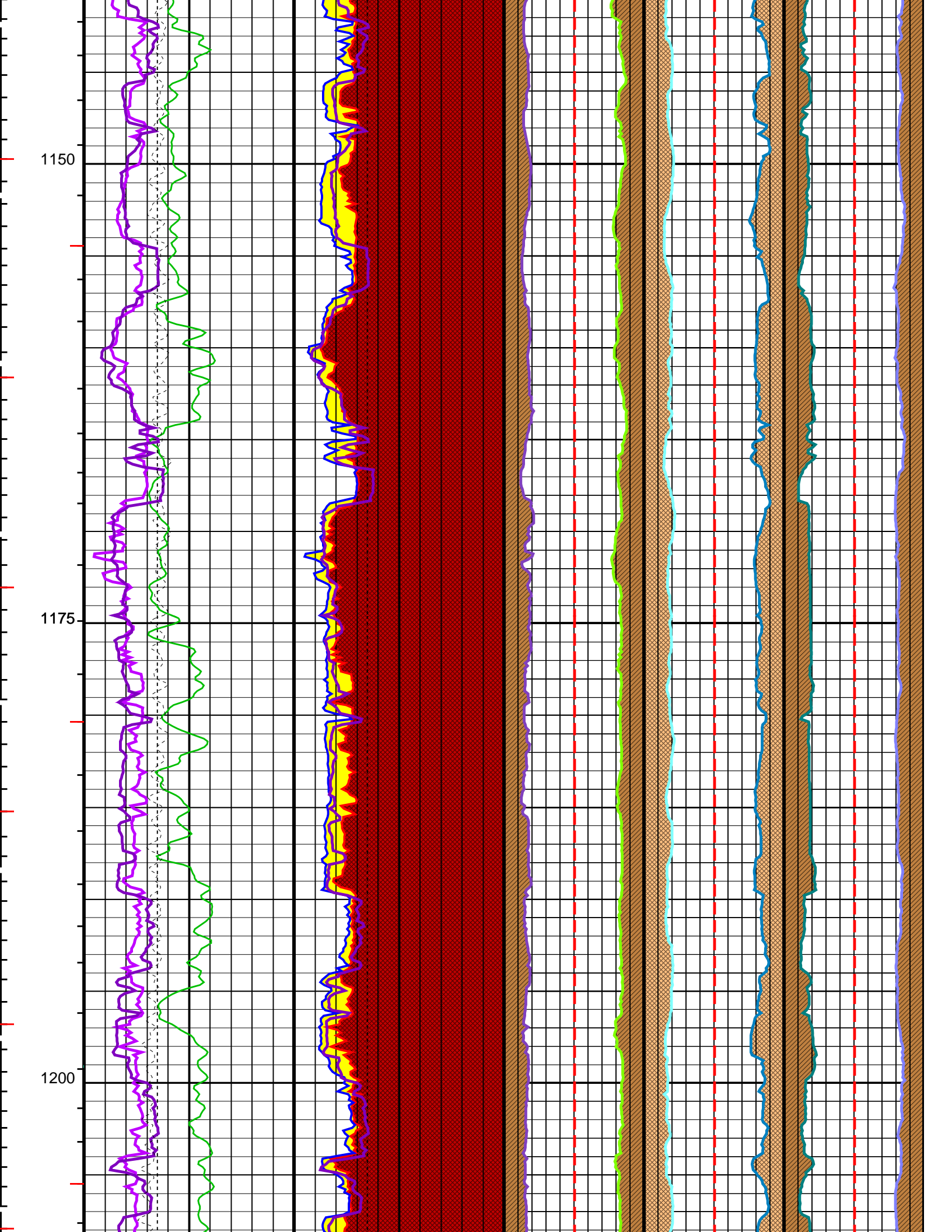


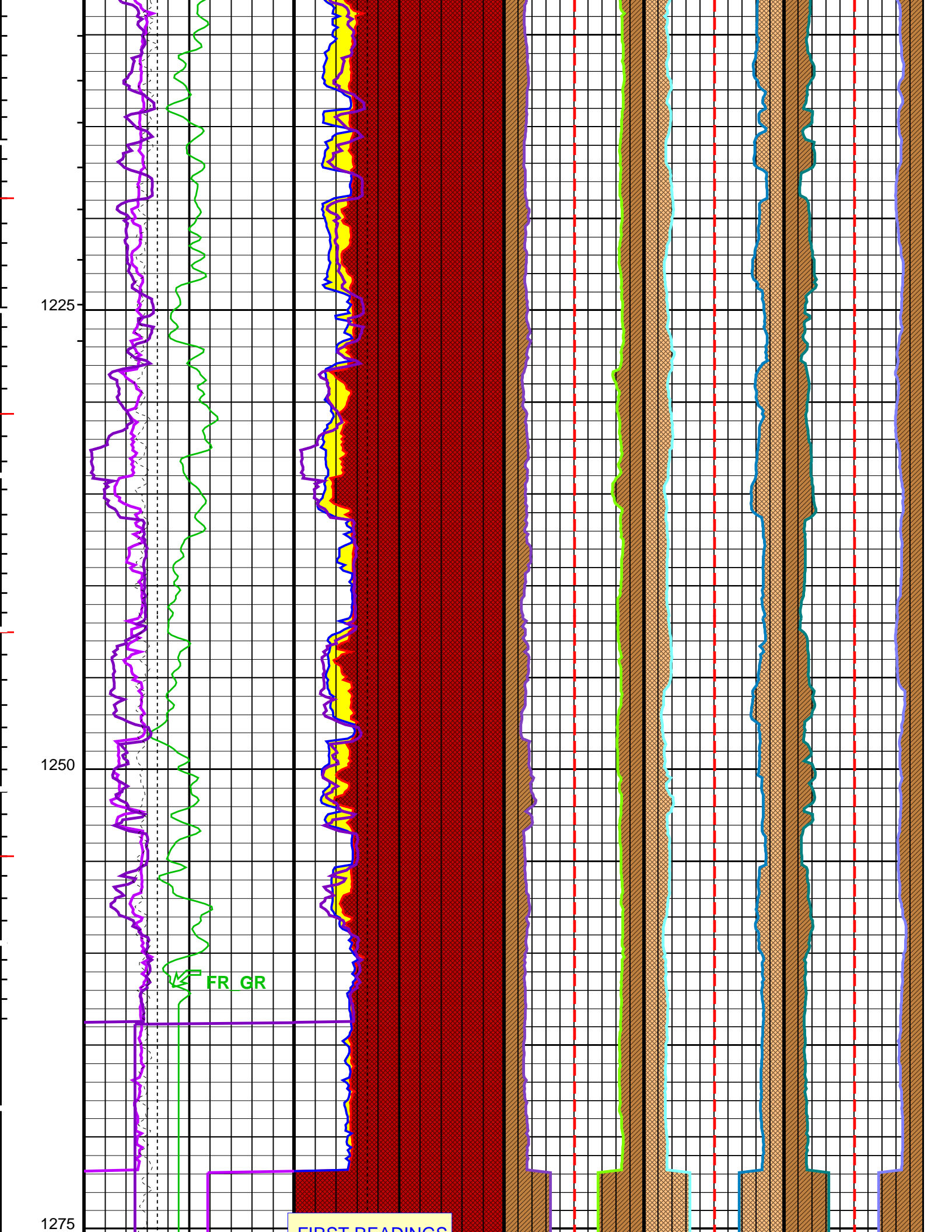












The diagram consists of a series of vertical bars of varying widths and patterns, arranged horizontally. From left to right, the elements are:

- A large white grid area.
- A thin purple vertical bar.
- A thin green vertical bar.
- A thin black vertical bar.
- A thin black vertical bar.
- A yellow box containing the text "FIRST READINGS".
- A wide red bar with a black grid pattern.
- A thin black vertical bar.
- A wide brown bar with diagonal hatching.
- A thin black vertical bar.
- A thin white bar with a red dashed line.
- A thin green vertical bar.
- A thin black vertical bar.
- A wide brown bar with diagonal hatching.
- A thin black vertical bar.
- A wide brown bar with a cross-hatch pattern.
- A thin black vertical bar.
- A wide white bar with a red dashed line.
- A thin blue vertical bar.
- A wide brown bar with diagonal hatching.
- A thin black vertical bar.
- A wide brown bar with diagonal hatching.
- A thin black vertical bar.
- A wide white bar with a red dashed line.
- A thin blue vertical bar.
- A wide brown bar with diagonal hatching.

MAIN PASS: * ENVIRONMENTAL MEASUREMENT *****

EMS Fixed Caliper Flag (EFCF) 0 () 20	Bit Size (BS) (MM) 275 525	Bit Size (BS) (MM) 275 525	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_EDTC) (GAPI) 0 150	Hole Diameter Maximum (HDMX) (MM) 275 525	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) 275 525	Hole Diameter Minimum (HDMI) (MM) 275 525	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) 275 525	Hole Diameter from Area (HDAR) (MM) 275 525	Formation From RHT2 to RD1	Formation From LHT3 to RD2	Formation From RD3 to RHT3
Oval Standard Deviation (OSDV) 23 () 3	Tension (TENS) (N) 25000 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					

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	
TRIRT	ZAiT-BA: 3-D Array Induction Tool – ZAIT-3D Rotation Selector	NorTH	
ECOF	EMS-B: Environment Measurement Sonde		
EFC	EMS Caliper Offset	50.8	MM
ESCL	EMS Fixed Caliper Operation	OFF	
FCD	EMS Synthetic Caliper Log	OFF	
HVCS	Future Casing (Outer) Diameter	244.475	MM
	Integrated Hole Volume Caliper Selection	PPC1_Calipers	
FCD	HOLEV: Integrated Hole/Cement Volume		
HVCS	Future Casing (Outer) Diameter	244.475	MM
	Integrated Hole Volume Caliper Selection	PPC1_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	1310.00	M
	Total Depth – Logger	1296.00	M
	System and Miscellaneous		
BS	Bit Size	361.950	MM
DO	Depth Offset for Playback	0.0	M
DORL	Depth Offset for Repeat Analysis	0.0	M
PP	Playback Processing	RECOMPUTE	
TD	Total Depth	4298	FT

Format: EMS_Caliper1 Vertical Scale: 1:240 Graphics File Created: 06-Mar-2007 14:16

OP System Version: 14C0-302
MCM

ZAiT-BA	SPC-3254-ZAIT-B_t	PPC2-B	SKK-3060-PPCB_b
APS-C	14C0-302	HRLT-B	14C0-302
EMS-B	14C0-302	GPIT-C	14C0-302
PPC1-B	SKK-3060-PPCB_b	EDTC-B	SKK-3248-EDTCB_b

Input DLIS Files

DEFAULT	AIT_CAL_APS_HRLA_070PUP	FN:78	PRODUCER	06-Mar-2007 12:43	1295.2 M	557.0 M
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Output DLIS Files

DEFAULT	AIT_CAL_APS_HRLA_085PUP	FN:98	PRODUCER	06-Mar-2007 14:16		
CLIENT_DATA_NOA	AIT_CAL_APS_HRLA_085PUP	FN:99	PRODUCER	06-Mar-2007 14:16		



MAIN PASS: ENVIRONMENTAL
MEASUREMENT HOLE DIAMETER

MAXIS Field Log

Input DLIS Files

DEFAULT	AIT_CAL_APS_HRLA_070PUP	FN:78	PRODUCER	06-Mar-2007 12:43	1295.2 M	557.0 M
Output DLIS Files						
DEFAULT	AIT_CAL_APS_HRLA_085PUP	FN:98	PRODUCER	06-Mar-2007 14:16	1295.2 M	525.2 M
CLIENT_DATA_NOA	AIT_CAL_APS_HRLA_085PUP	FN:99	PRODUCER	06-Mar-2007 14:16	1295.2 M	525.2 M

Integrated Hole/Cement Volume Summary						
Hole Volume = 73.99 M3						
Cement Volume = 44.97 M3 (assuming 244.47 MM casing O.D.)						
Computed from 1295.2 M to 677.1 M using data channel(s) CRD1_PPC1 CRD2_PPC1 CRD3_PPC1 CRD4_PPC1						

OP System Version: 14C0-302			
MCM			
ZAIT-BA	SPC-3254-ZAIT-B_t	PPC2-B	SKK-3060-PPCB_b
APS-C	14C0-302	HRLT-B	14C0-302
EMS-B	14C0-302	GPIT-C	14C0-302
PPC1-B	SKK-3060-PPCB_b	EDTC-B	SKK-3248-EDTCB_b

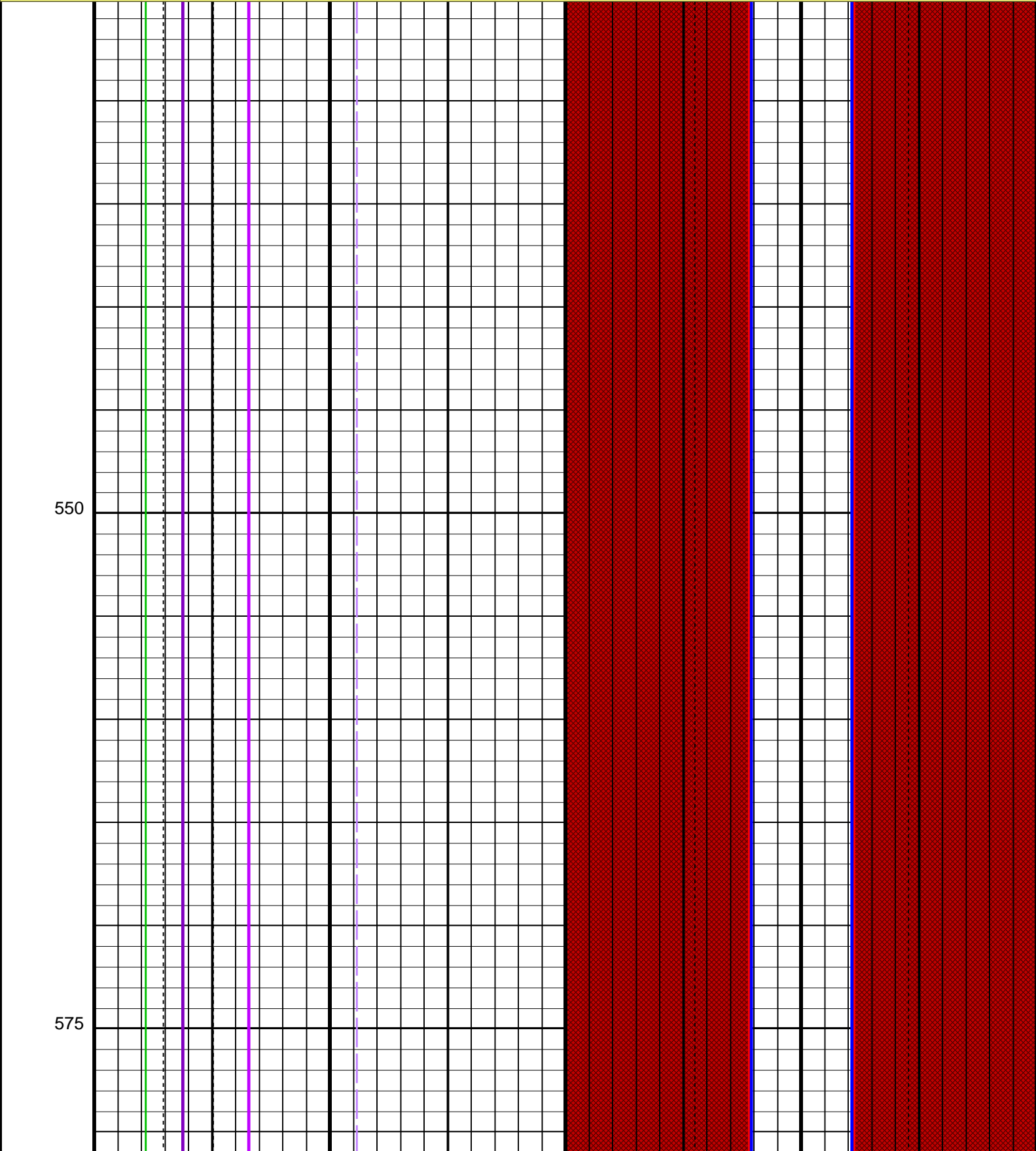
PIP SUMMARY			
└ Integrated Hole Volume Minor Pip Every 0.1 M3			
└ Integrated Hole Volume Major Pip Every 1 M3			
└ Integrated Cement Volume Minor Pip Every 0.1 M3			
└ Integrated Cement Volume Major Pip Every 1 M3			
Time Mark Every 60 S			

Standard deviation for HDAR From OSDV to D4T				
Probability Angle for HDMI (CHAM) (DEG)				
90 240				
Probability angle for HDMI From D4T to CHAM				
Fixed caliper flag From D4T to EFCF				
Oval Standard Deviation (OSDV)	Tension (TENS)			
23 () 3	25000 (N)		0	
Tool/Tot. Drag From D4T to STIA	Hole Diameter 1 (HD1)			
	275 (MM)		575	
Cable Drag From D4T to STIT	Hole Diameter from Area (HDAR)			
	275 (MM)		575	

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)	Hole Diameter Minimum (HDMI)
800 (MM)	0 0 (MM) 800

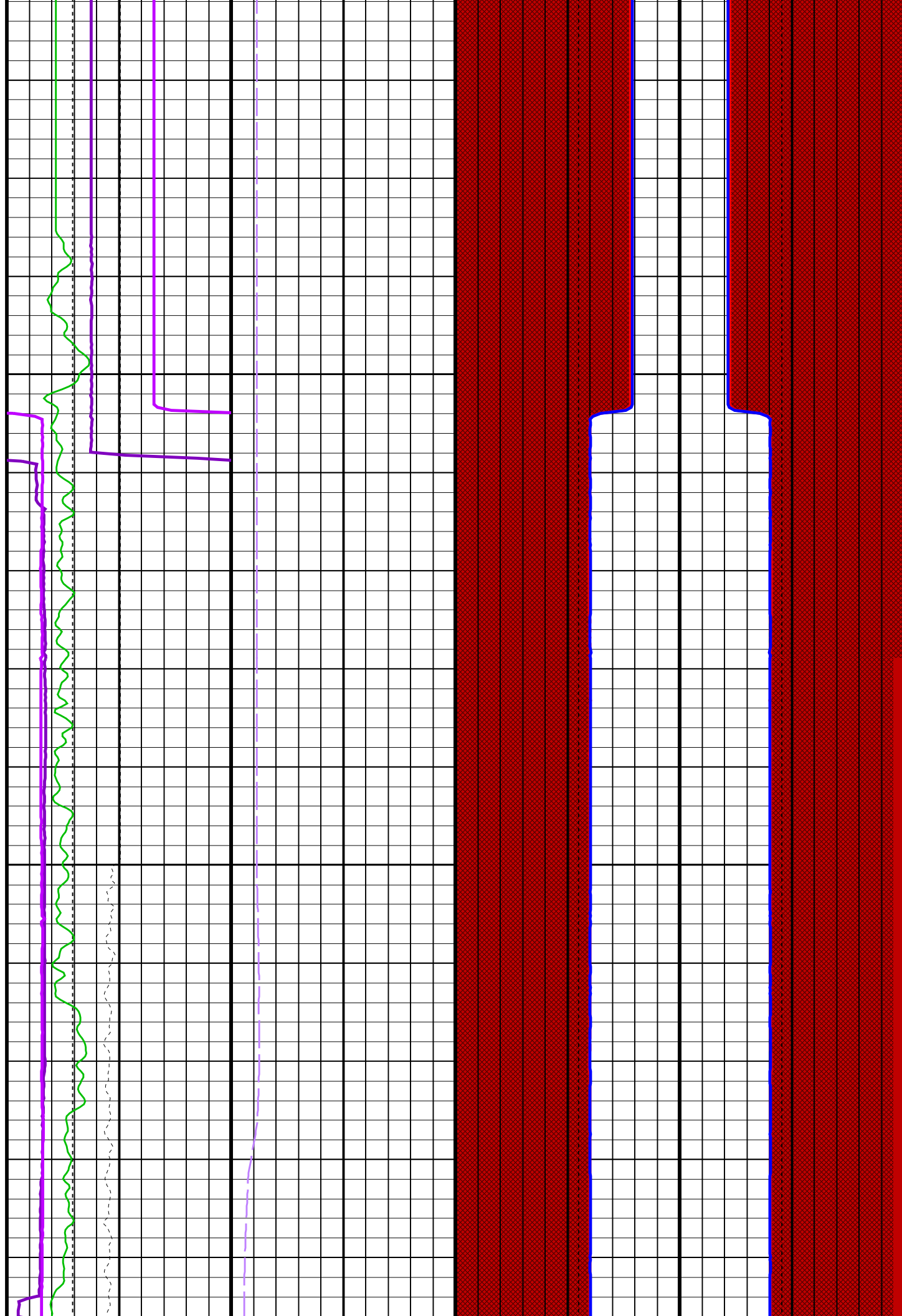
Stuck Stretch (STIT)	Gamma Ray (GR_EDTC) (GAPI)		Hole Diameter Maximum (HDMX)		Hole Diameter Maximum (HDMX)	
0 (M) 20	0	150	800 (MM)	0 0	800 (MM)	800
EMS Fixed Caliper Flag (EFCF)	Bit Size (BS) (MM)		Deviation (SDEV) (DEG)		Bit Size (BS) (MM)	
0 () 20	275	575	0 10	800 (MM)	0 0	800 (MM)

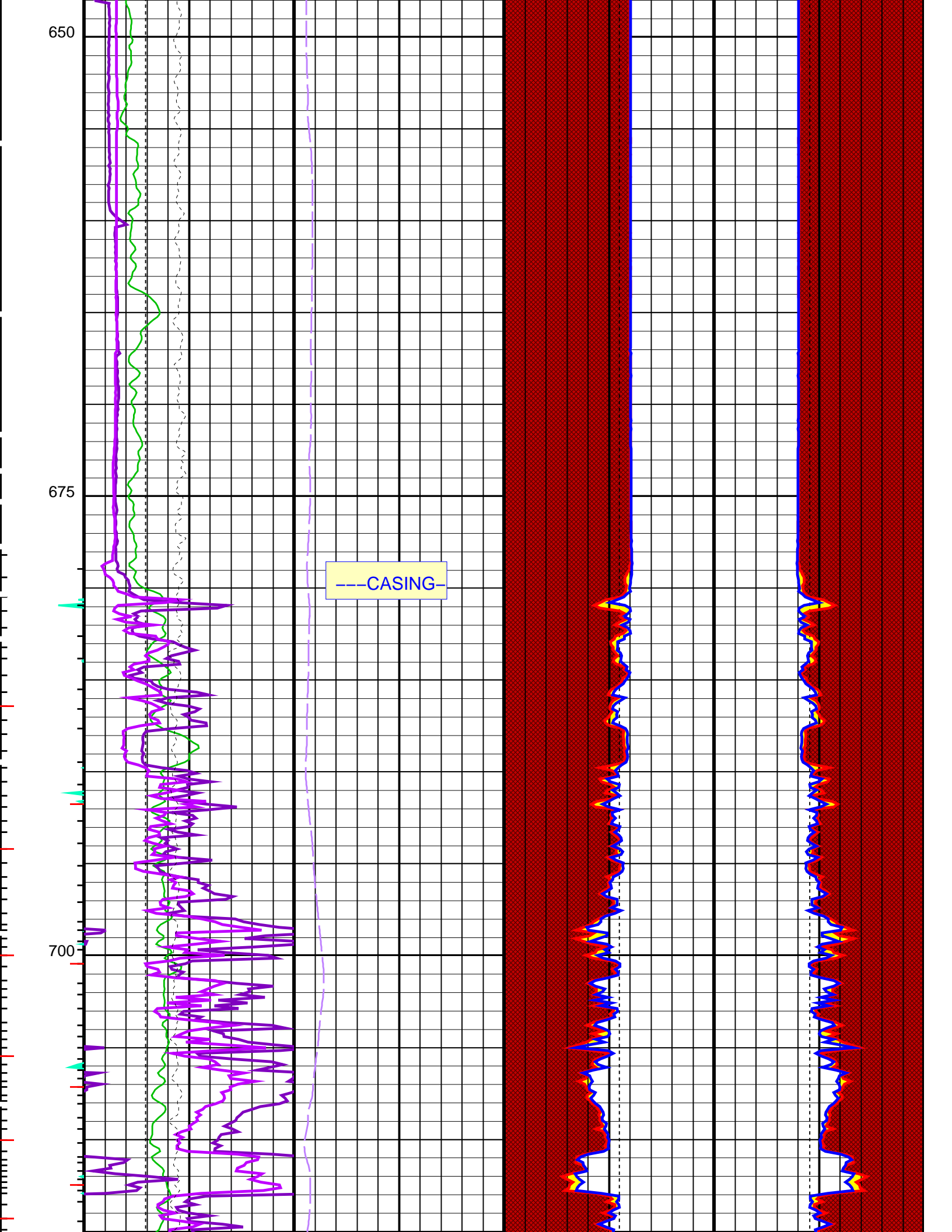
MAIN PASS: *** ENVIRONMENTAL MEASUREMENT ***

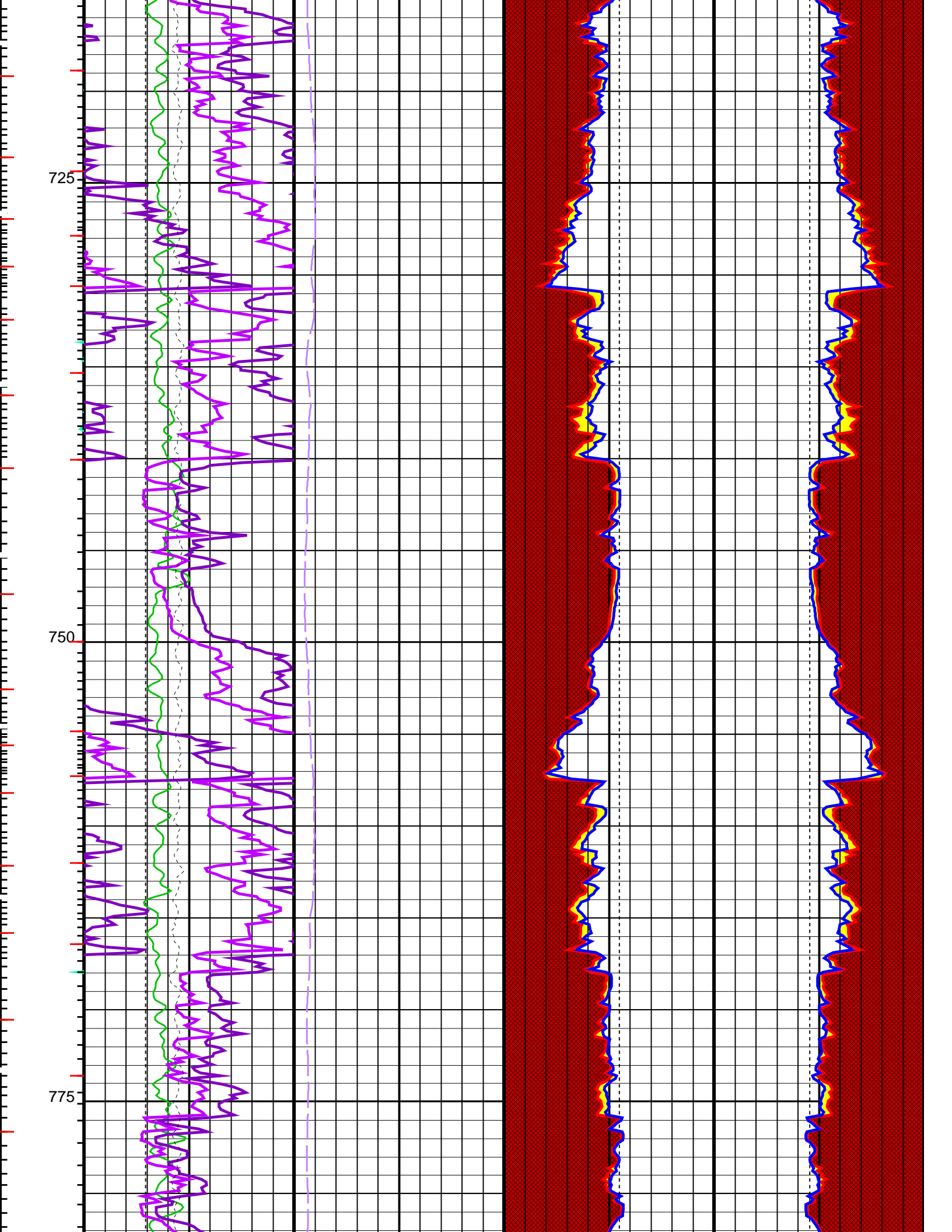


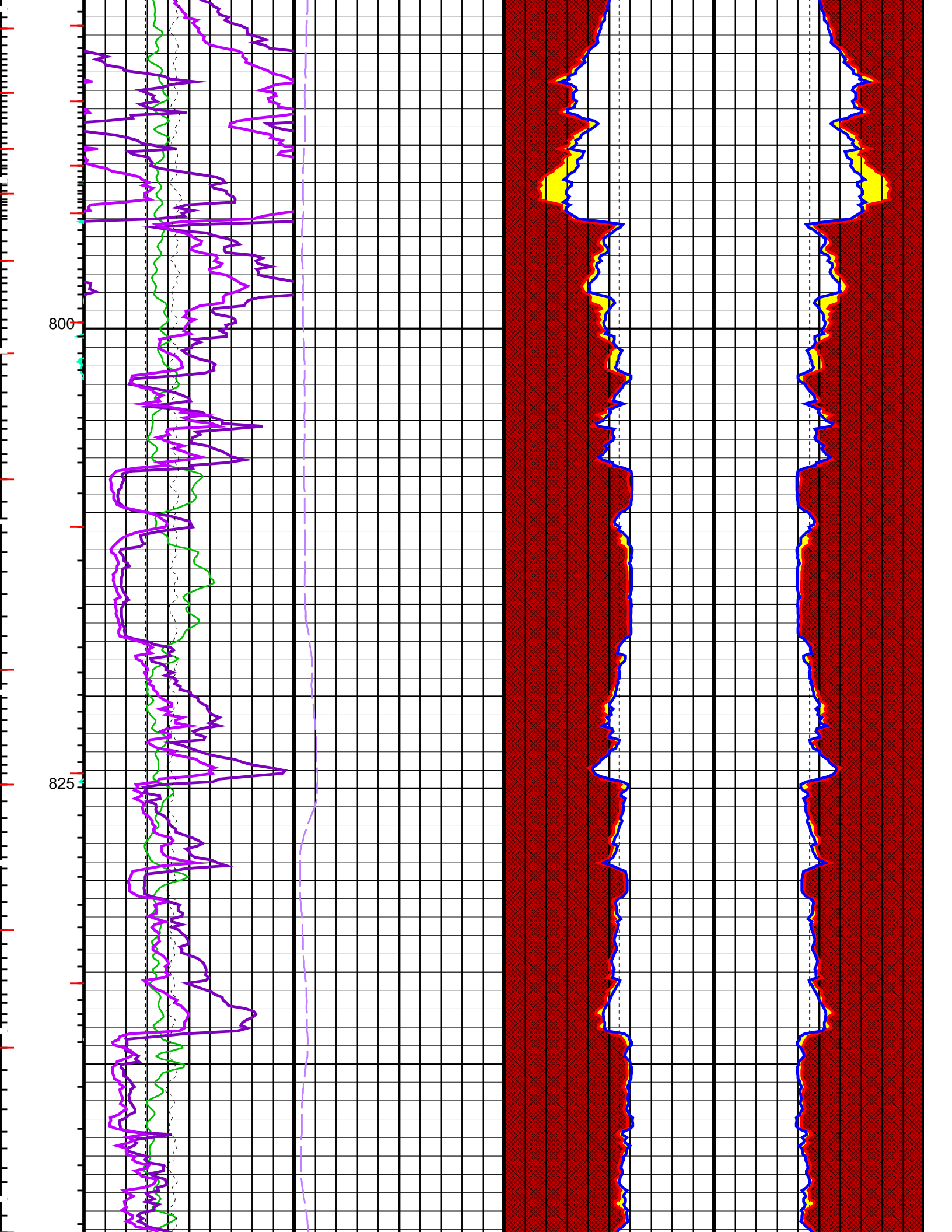
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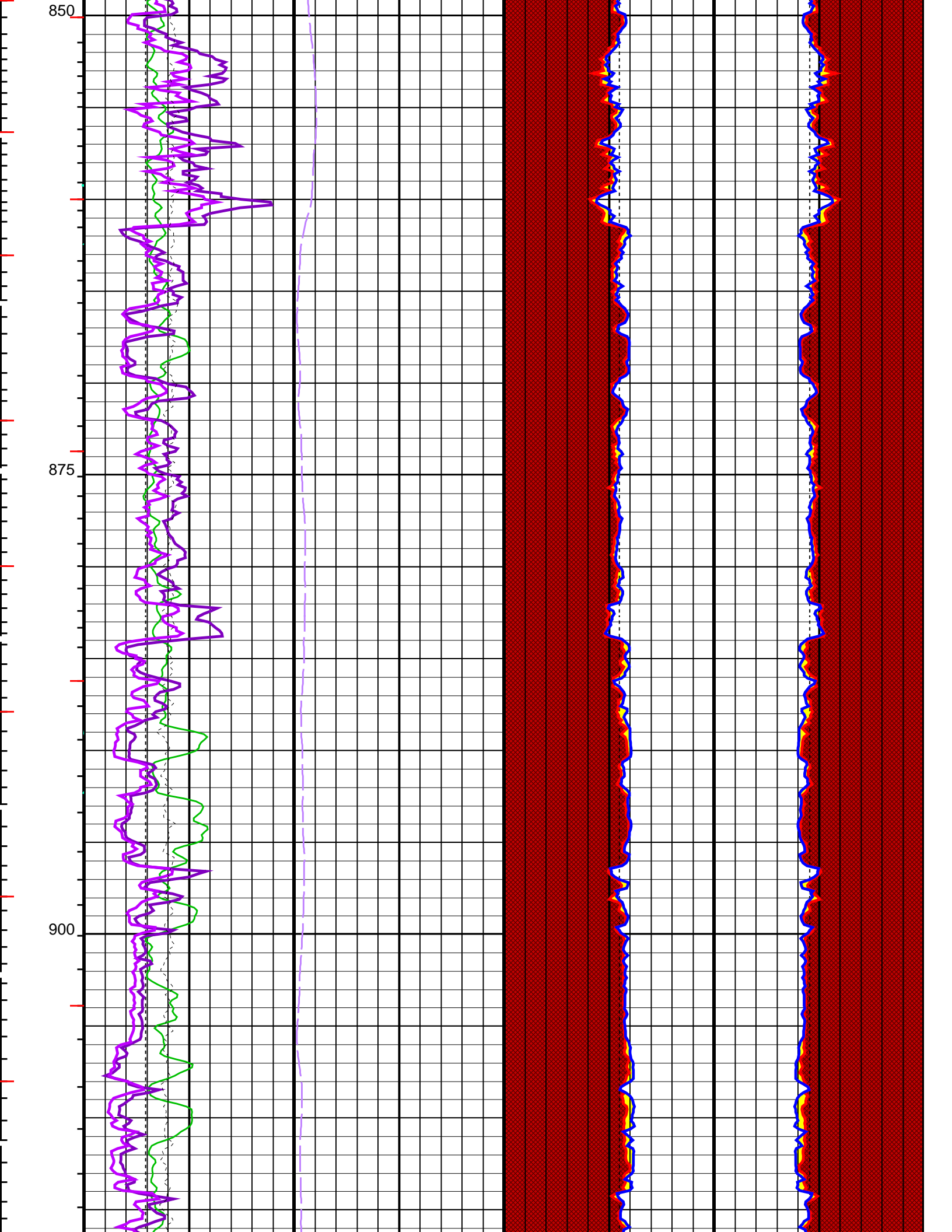
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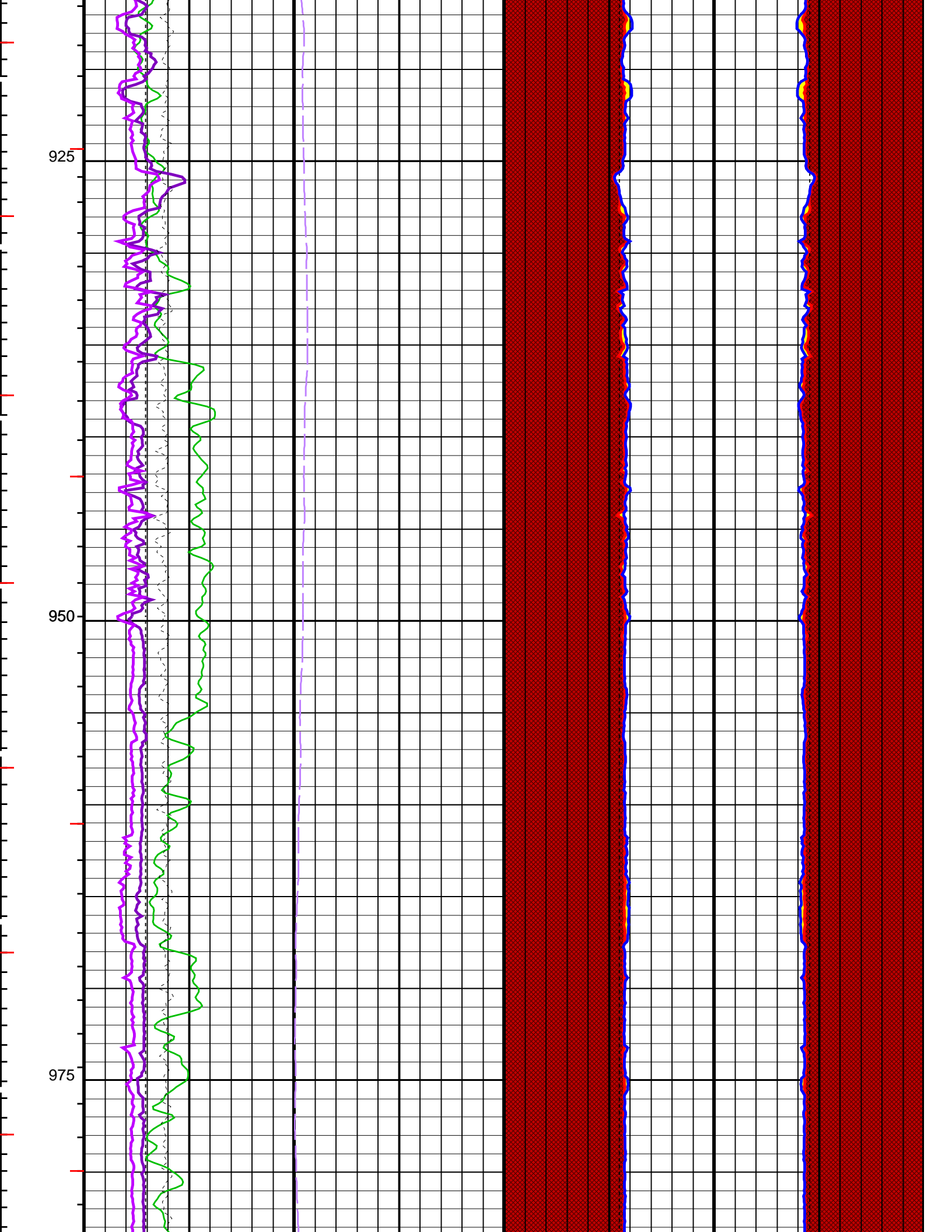


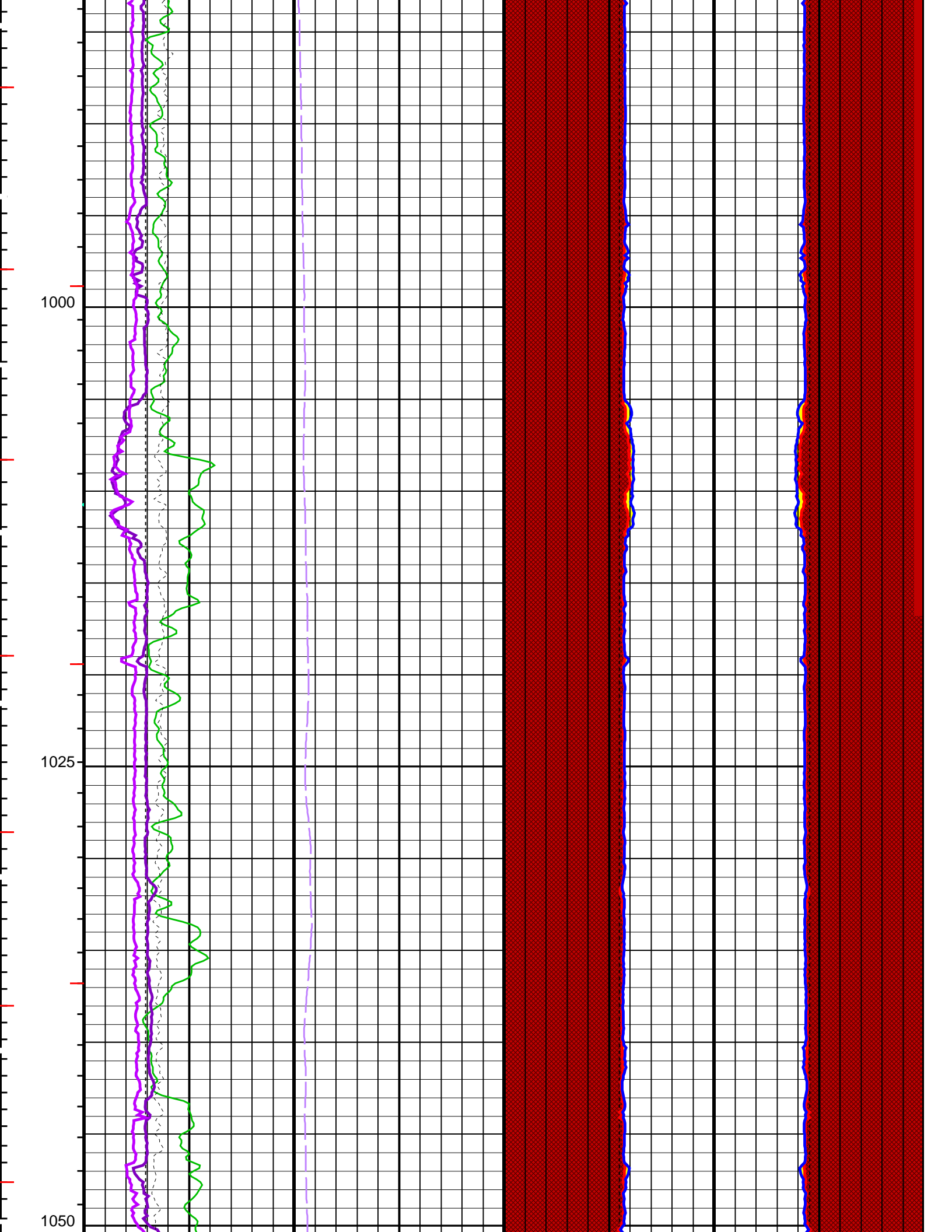


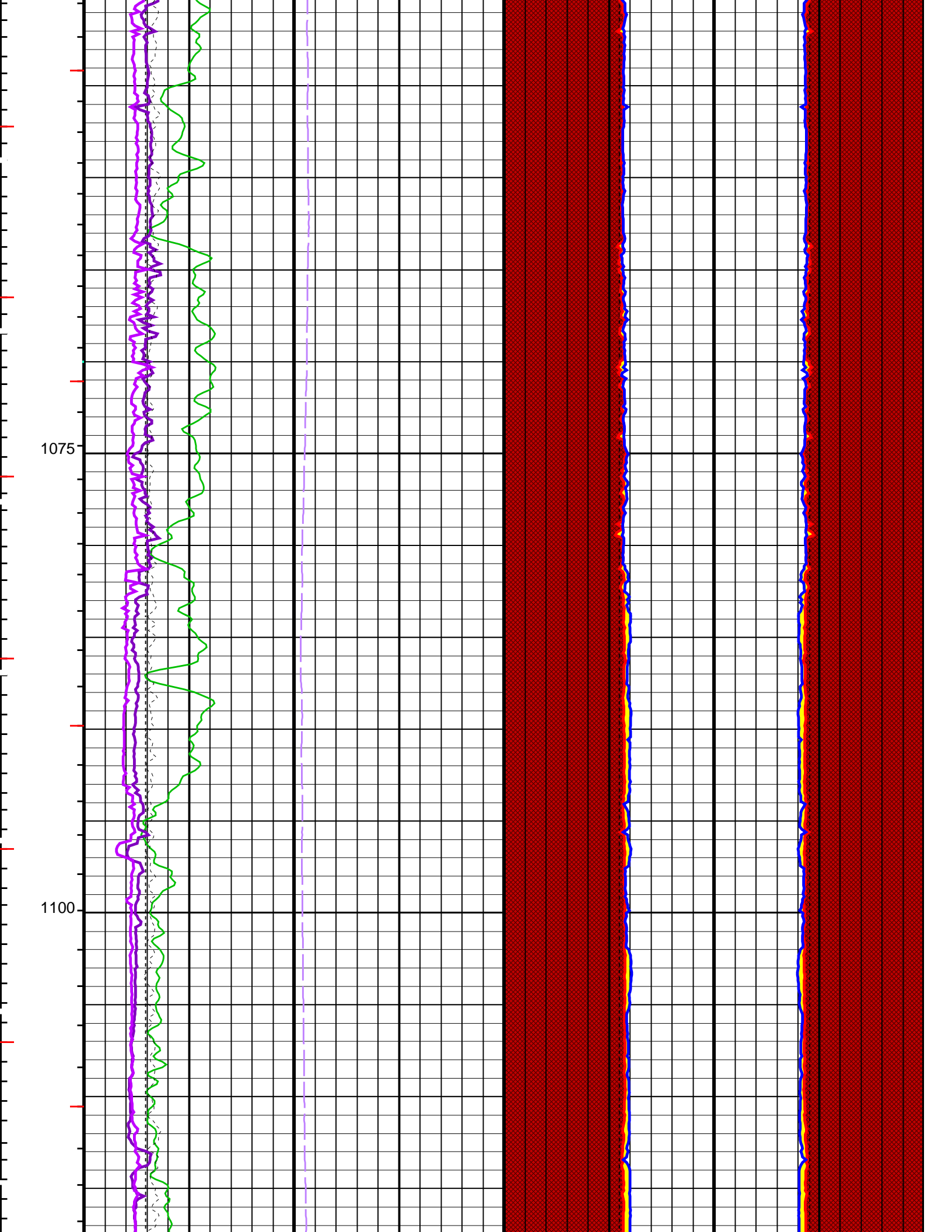


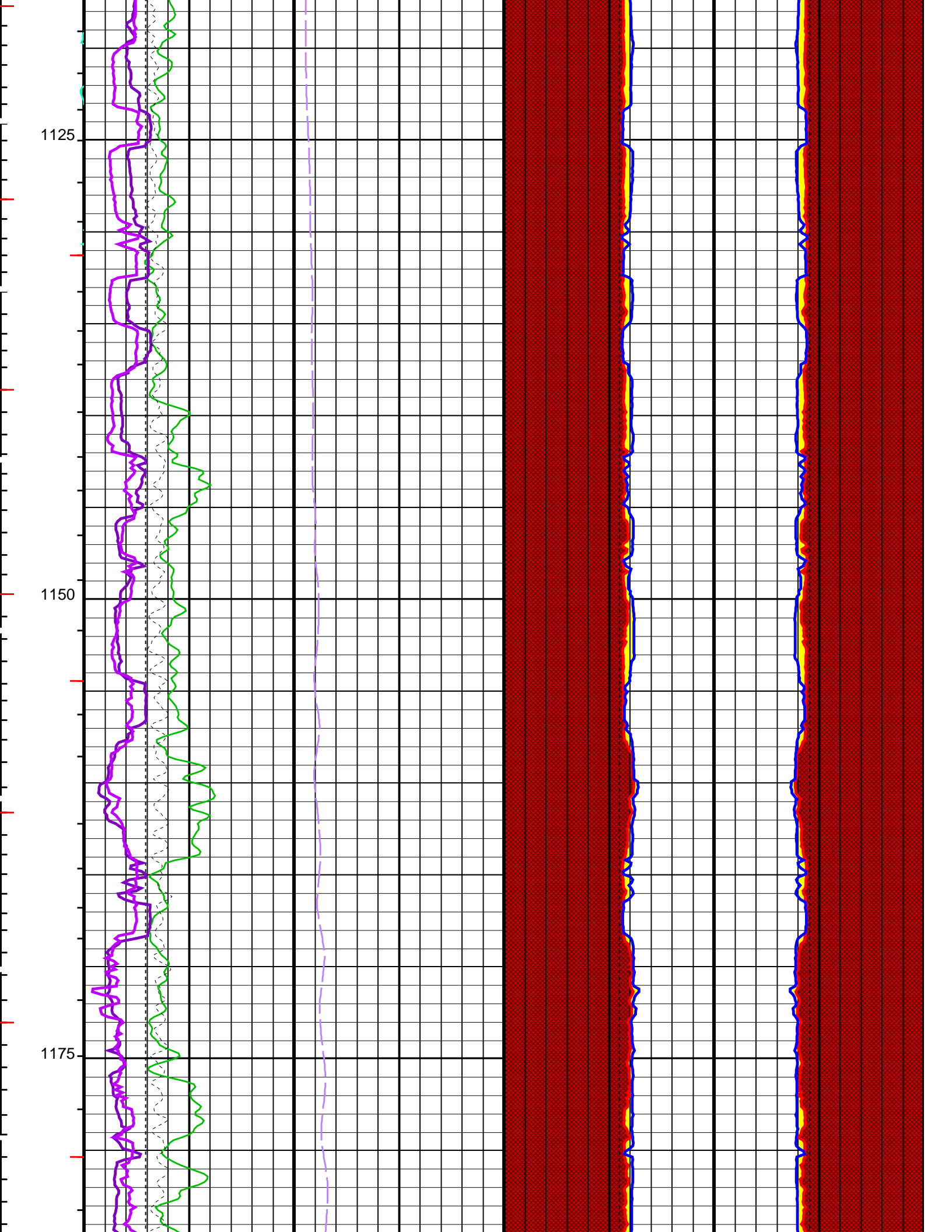


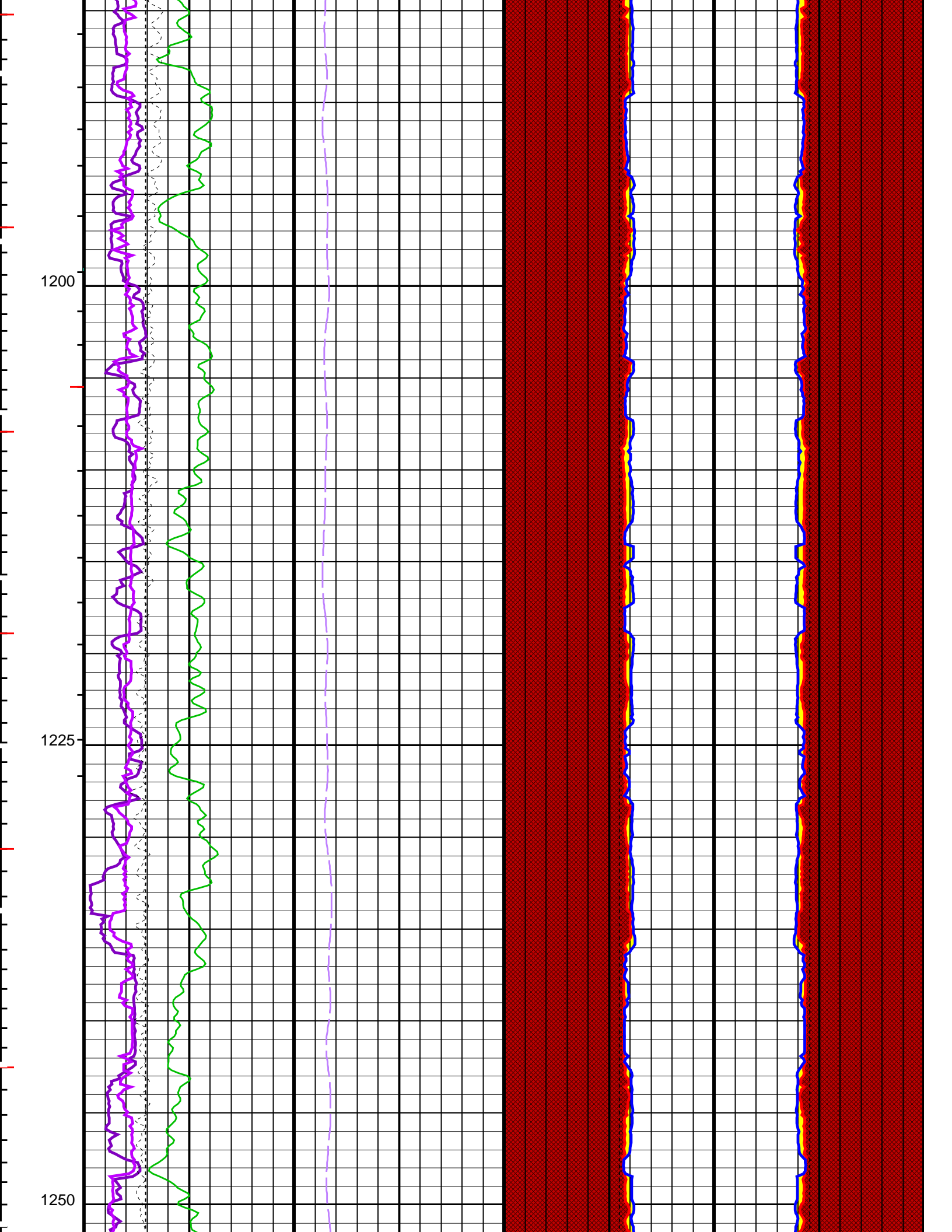


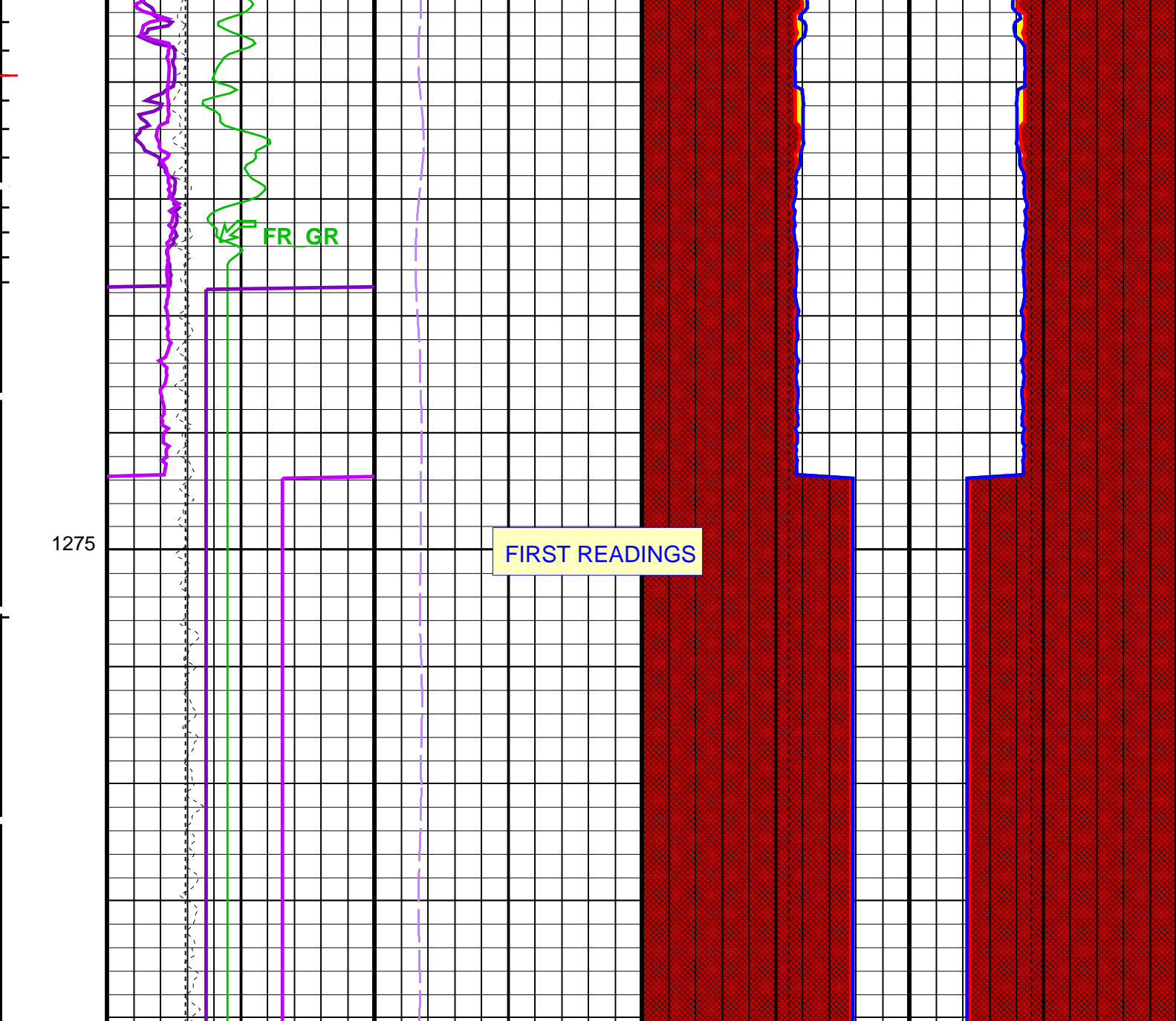












MAIN PASS: *** ENVIRONMENTAL MEASUREMENT ***

EMS Fixed Caliper Flag (EFCF) 0 () 20	Bit Size (BS) (MM) 275 575	Deviation (SDEV) (DEG) 0 10	Bit Size (BS) (MM) 800 0 0	Bit Size (BS) (MM) 800
Stuck Stretch (STIT) 0 (M) 20	Gamma Ray (GR_EDTC) (GAPI) 0 150		Hole Diameter Maximum (HDMX) 800 (MM) 0 0	Hole Diameter Maximum (HDMX) (MM) 800
Cable Drag From D4T to STIT	Hole Diameter from Area (HDAR) 275 (MM) 575		Hole Diameter Minimum (HDMI) 800 (MM) 0 0	Hole Diameter Minimum (HDMI) (MM) 800
Tool/Tot. Drag From D4T to STIA	Hole Diameter 1 (HD1) 275 (MM) 575		HD difference From HDMX_1 to HDMI_1	HD difference From HDMI_2 to HDMX_2
Oval Standard	Tension (TENS)		Formation	Formation

Deviation (OSDV) 23 () 3	25000	(N)	0
Fixed caliper flag From D4T to EFCF			
Probability angle for HDMI From D4T to CHAM			
Probability Angle for HDMI (CHAM) (DEG) 90 240			
Standard deviation for HDAR From OSDV to D4T			

Formation From F3 to HDMX 1	Formation From HDMX 2 to F4
--------------------------------	--------------------------------

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
TRIRT	ZAiT-BA: 3-D Array Induction Tool – ZAIT-3D Rotation Selector	NorTH
ECOF	EMS-B: Environment Measurement Sonde	
EFC	EMS Caliper Offset	50.8 MM
ESCL	EMS Fixed Caliper Operation	OFF
FCD	EMS Synthetic Caliper Log	OFF
HVCS	Future Casing (Outer) Diameter	244.475 MM
	Integrated Hole Volume Caliper Selection	PPC1_Calipers
AFMO	GPIT-C: General Purpose Inclinator	
ICMO	Accelerometer Filtering Mode	MOVING_AVERAGE
MDEC	Inclinometry Computation Mode	AUTOMATIC_SELECTION
	Magnetic Field Declination	28.7999 DEG
FCD	HOLEV: Integrated Hole/Cement Volume	
HVCS	Future Casing (Outer) Diameter	244.475 MM
	Integrated Hole Volume Caliper Selection	PPC1_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	1310.00 M
	Total Depth – Logger	1296.00 M
BS	System and Miscellaneous	
DO	Bit Size	361.950 MM
DORL	Depth Offset for Playback	0.0 M
PP	Depth Offset for Repeat Analysis	0.0 M
TD	Playback Processing	RECOMPUTE
	Total Depth	4298 FT

Format: EMS_HoleDiameter Vertical Scale: 1:240 Graphics File Created: 06-Mar-2007 14:16

OP System Version: 14C0-302

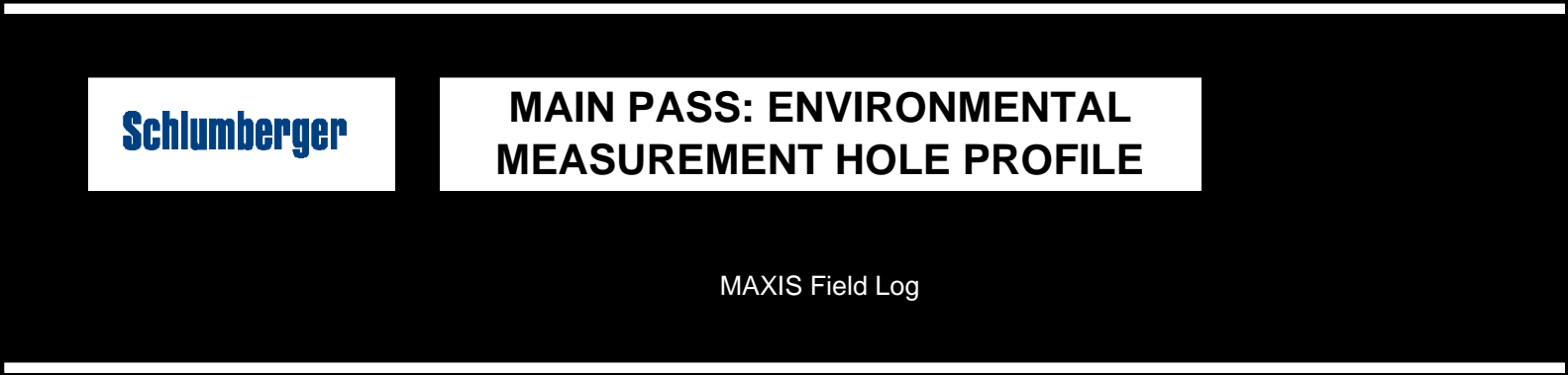
MCM

ZAiT-BA	SPC-3254-ZAIT-B_t	PPC2-B	SKK-3060-PPCB_b
APS-C	14C0-302	HRLT-B	14C0-302
EMS-B	14C0-302	GPIT-C	14C0-302
PPC1-B	SKK-3060-PPCB_b	EDTC-B	SKK-3060-EDTCB_b

PPCT-B	SKK-3060-PPCB_b	EDTC-B	SKK-3248-EDTCB_b
Input DLIS Files			
DEFAULT	AIT_CAL_APS_HRLA_070PUP	FN:78	PRODUCER 06-Mar-2007 12:43 1295.2 M 557.0 M
Output DLIS Files			
DEFAULT	AIT_CAL_APS_HRLA_085PUP	FN:98	PRODUCER 06-Mar-2007 14:16
CLIENT_DATA_NOA	AIT_CAL_APS_HRLA_085PUP	FN:99	PRODUCER 06-Mar-2007 14:16



MAIN PASS: ENVIRONMENTAL MEASUREMENT HOLE PROFILE

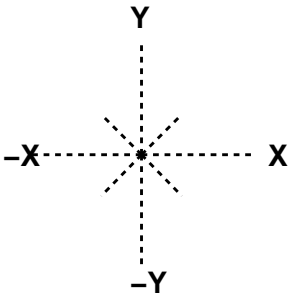
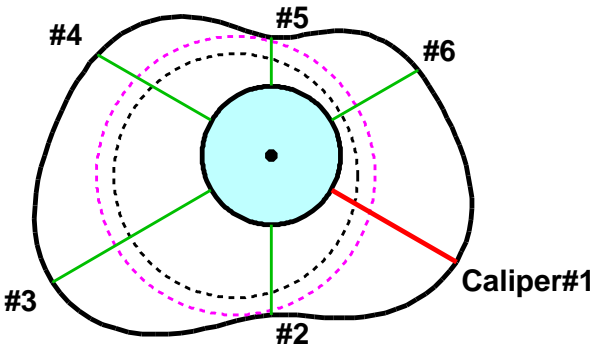


Graphics File Name: BORE_GRAPHIC_8.PDS Graphics File Created: 06-Mar-2007 14:16

Borehole Cross Section

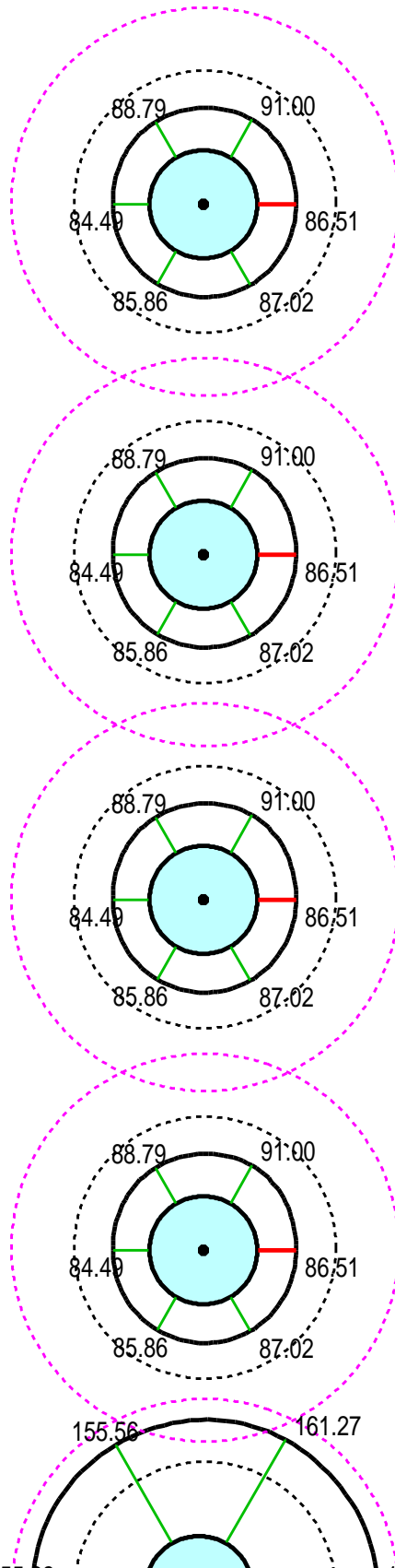
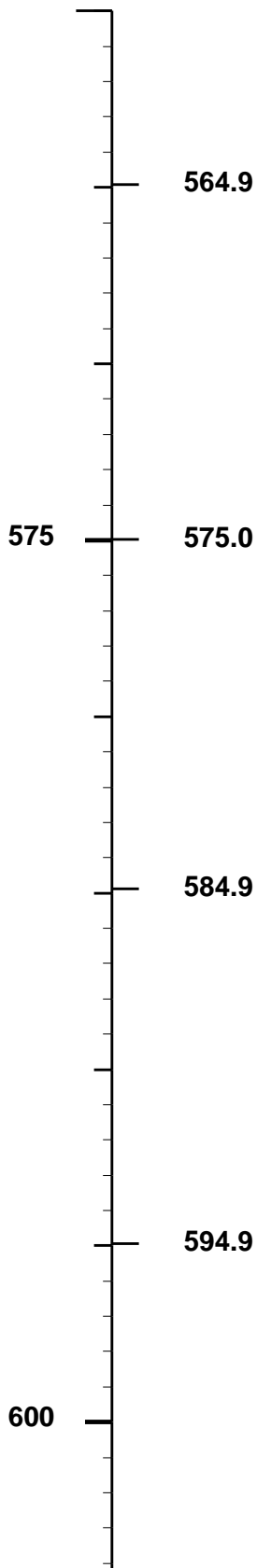
Parameters

DLIS Name	Description	Value
BGVS	Borehole Graphic Vertical Scale	D200_Metric
BGDI	Borehole Graphic Depth Interval	10_M
BGDM	Borehole Graphic Display Mode	Xsec_Tool_CalAll_Data
BGHW	Borehole Graphic Horizontal Width	750_MM
BGAI	Borehole Graphic Angle Index	None
BGUN	Borehole Graphic Unit	METRIC



Orientation Index : None

Depth (M)	Future Casing Diameter (FCD)		Borehole Data			
	-375.0	(MM)	375.0	DIA. Max (MM)	DIA. Min (MM)	Conf. Factor (DEG)
	-375.0	Bit Size (BS) (MM)	375.0	Orient Angle (DEG)		

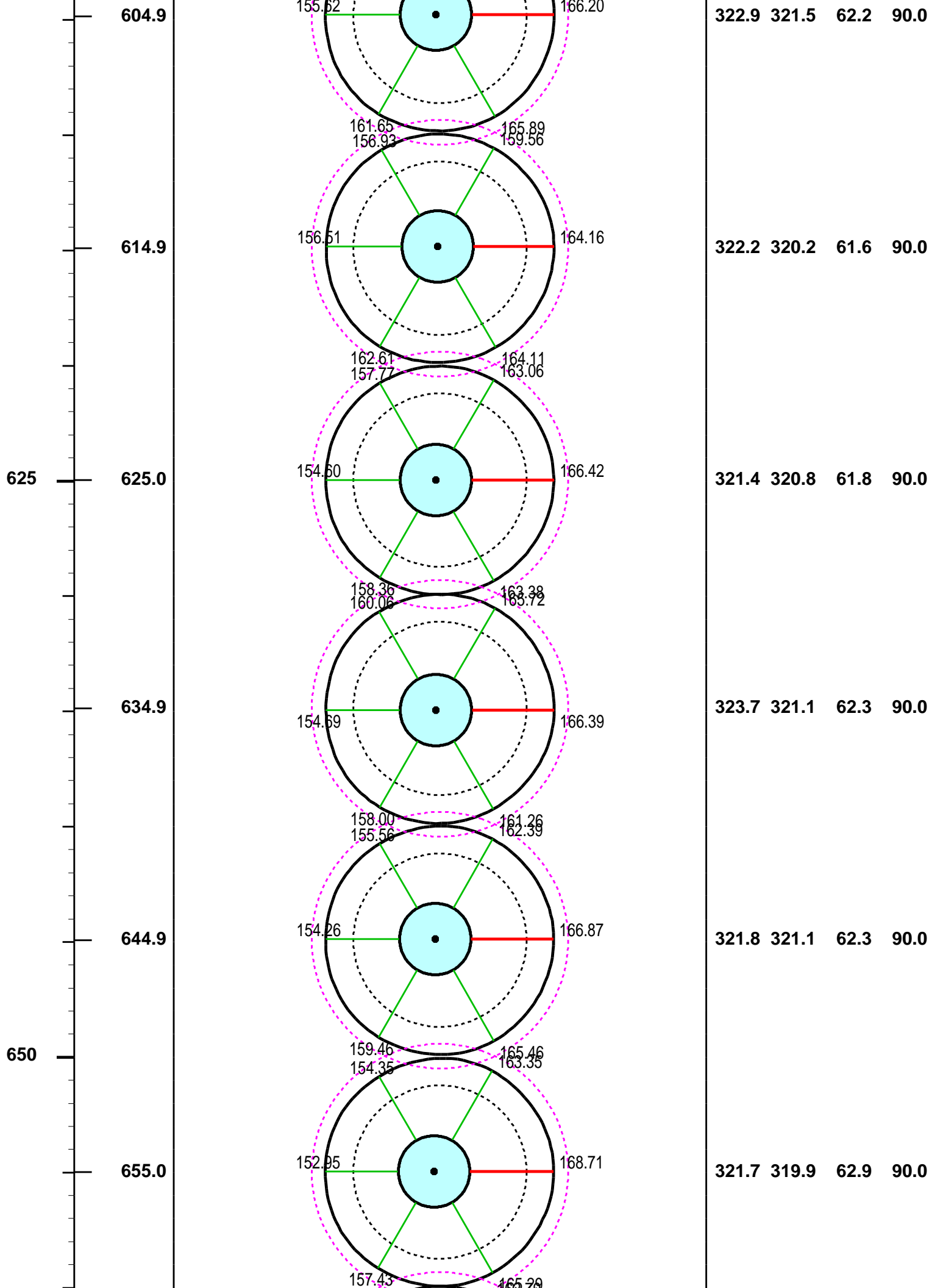


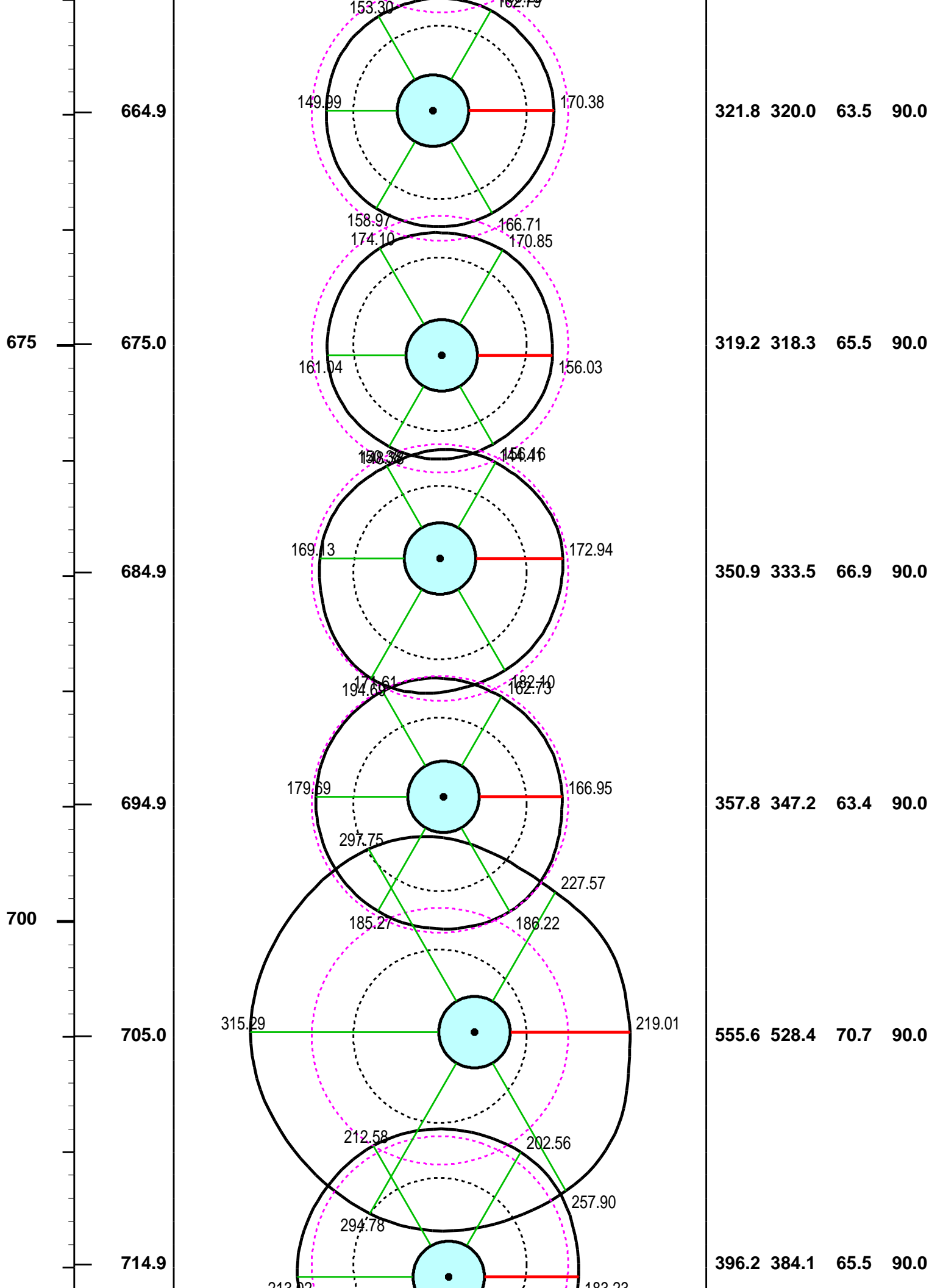
176.9 171.2 62.9 90.0

176.9 171.2 62.9 90.0

176.9 171.2 62.9 90.0

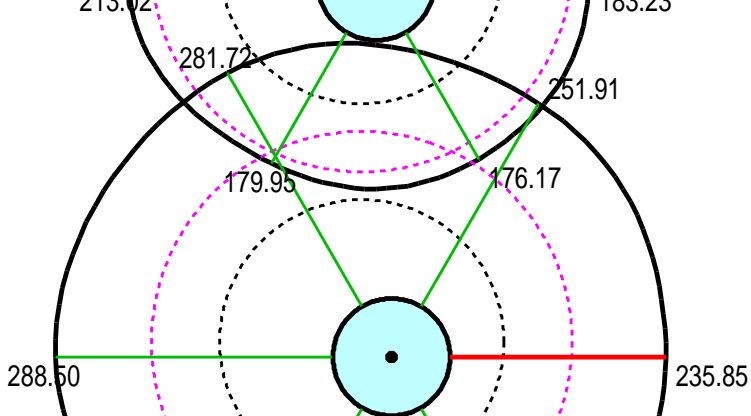
176.9 171.2 62.9 90.0





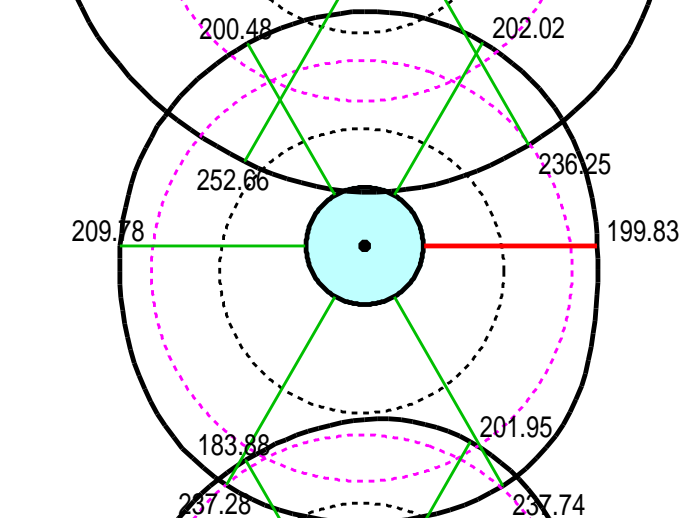
725

724.9



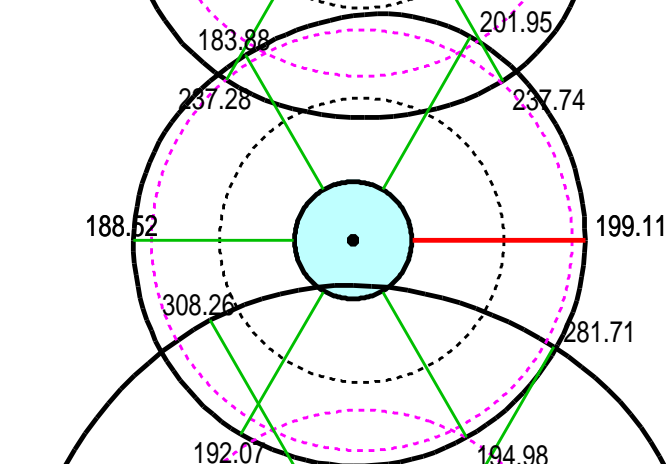
524.3 508.7 67.2 90.0

735.0



439.3 414.6 68.7 90.0

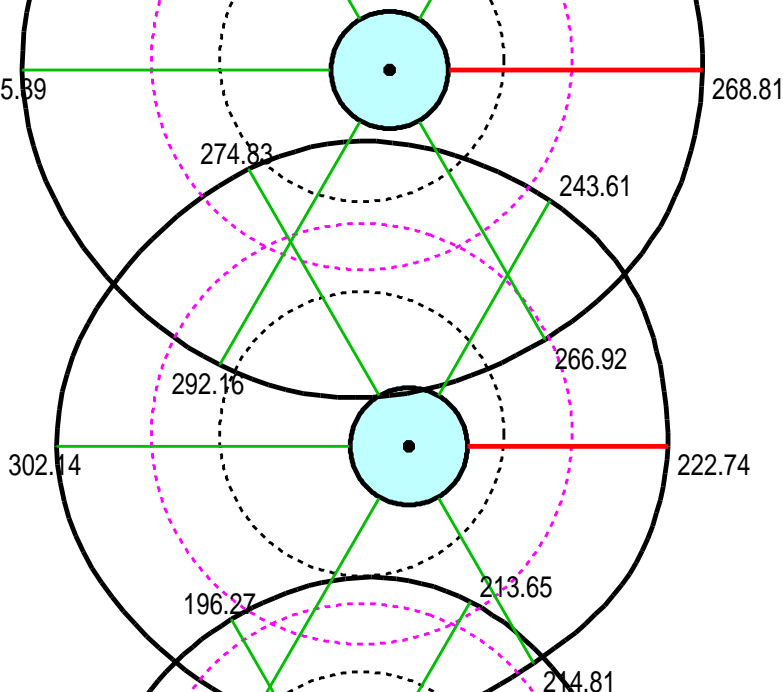
744.9



394.0 379.2 62.6 90.0

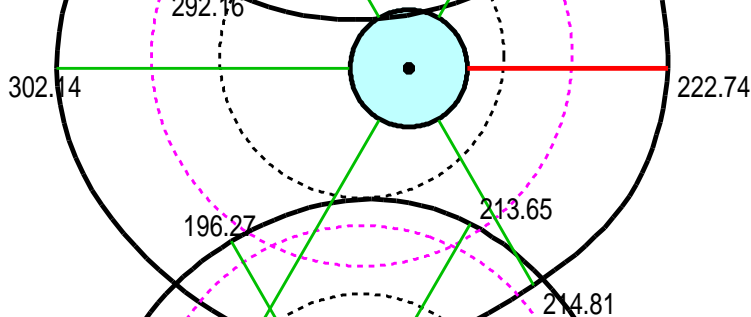
750

755.0



584.2 576.3 65.3 90.0

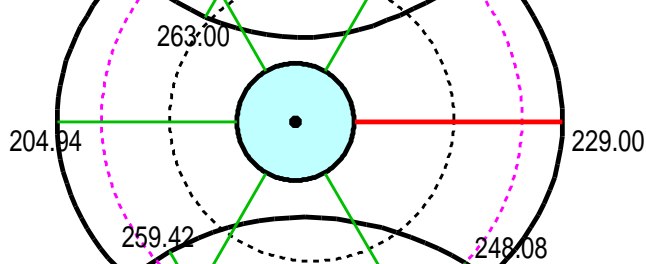
764.9



524.9 496.0 70.6 90.0

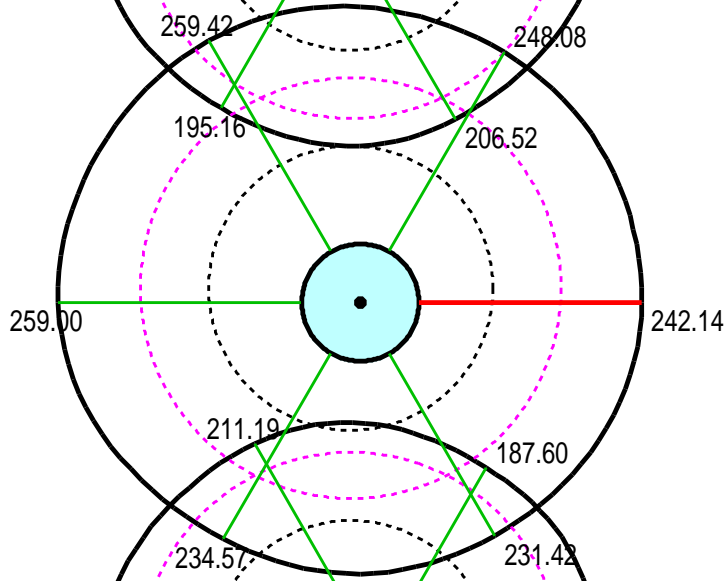
775

774.9



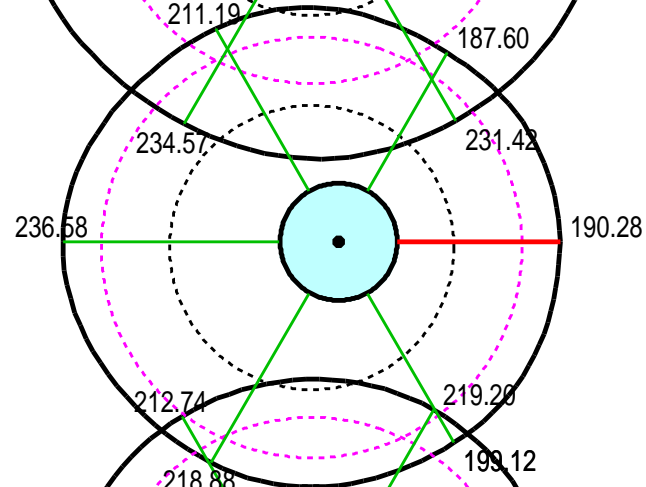
433.9 404.2 64.7 90.0

785.0



501.1 483.8 63.8 90.0

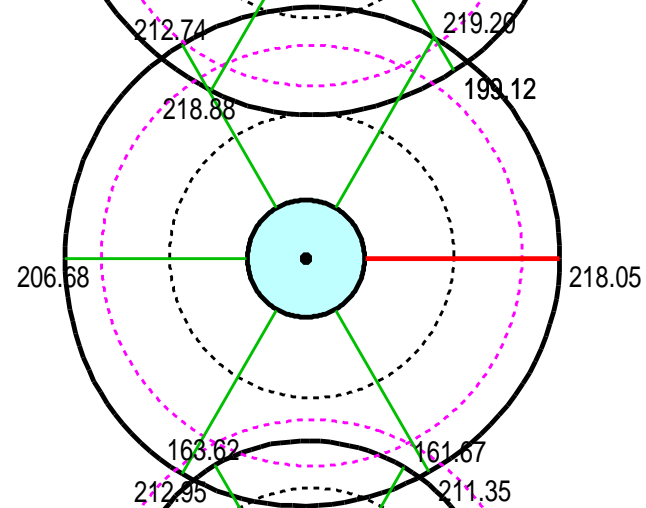
794.9



426.9 408.2 66.4 90.0

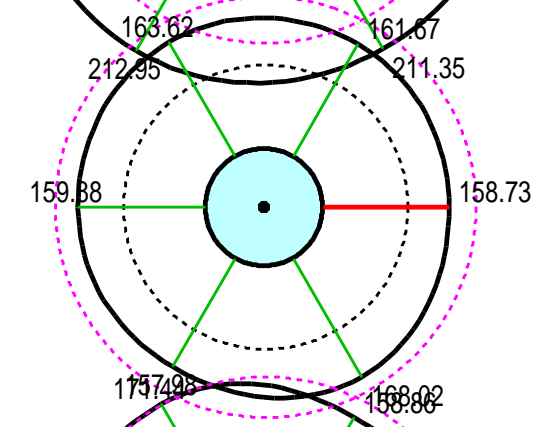
800

804.9



432.1 424.3 62.0 90.0

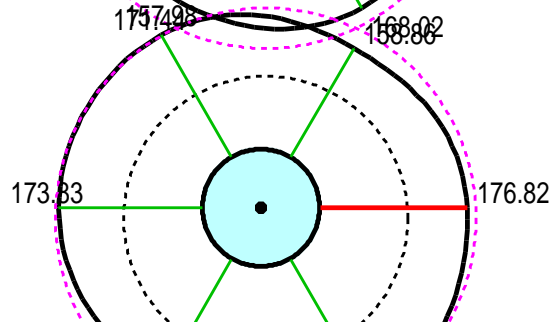
814.9



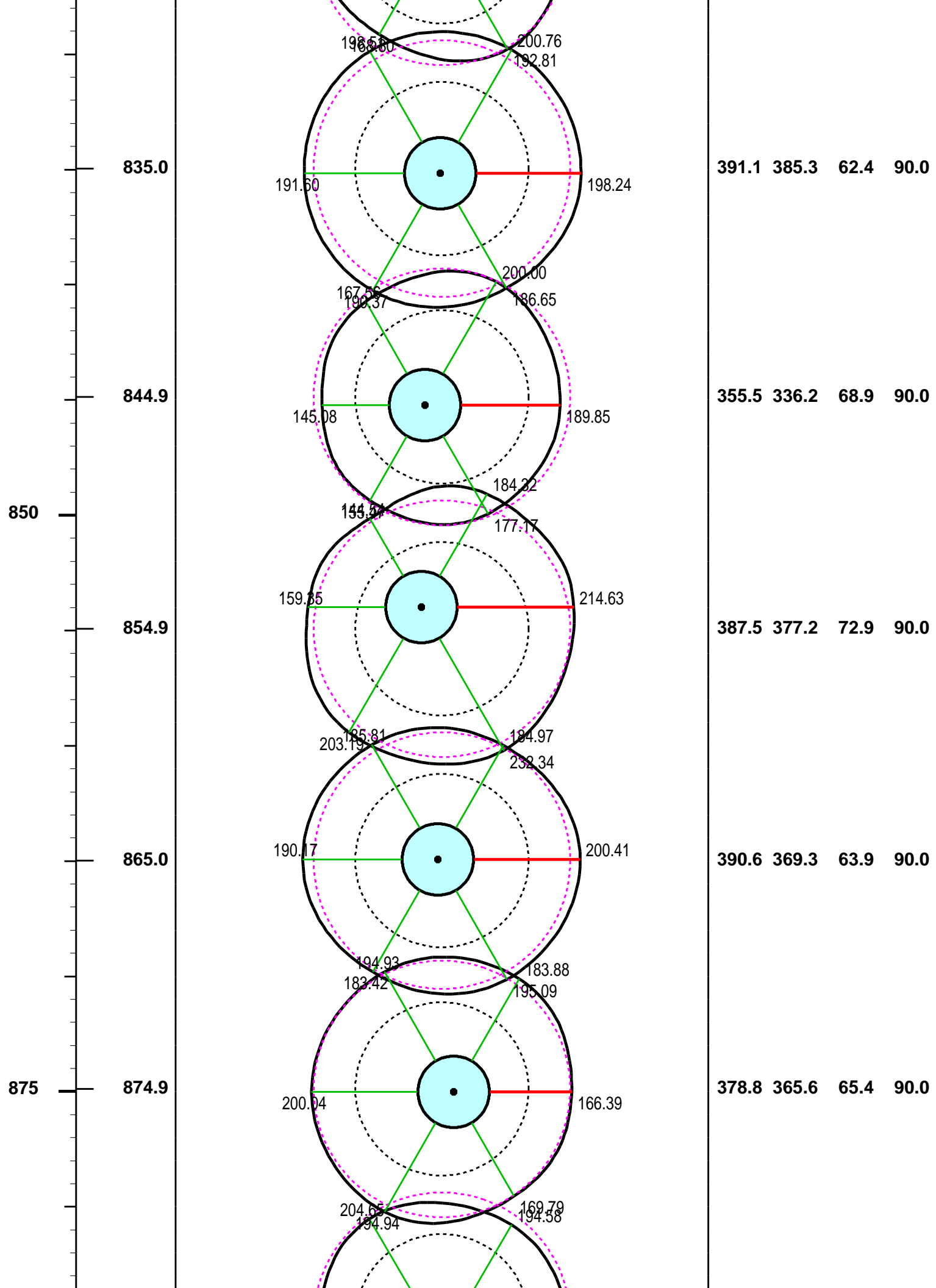
331.6 318.7 61.1 90.0

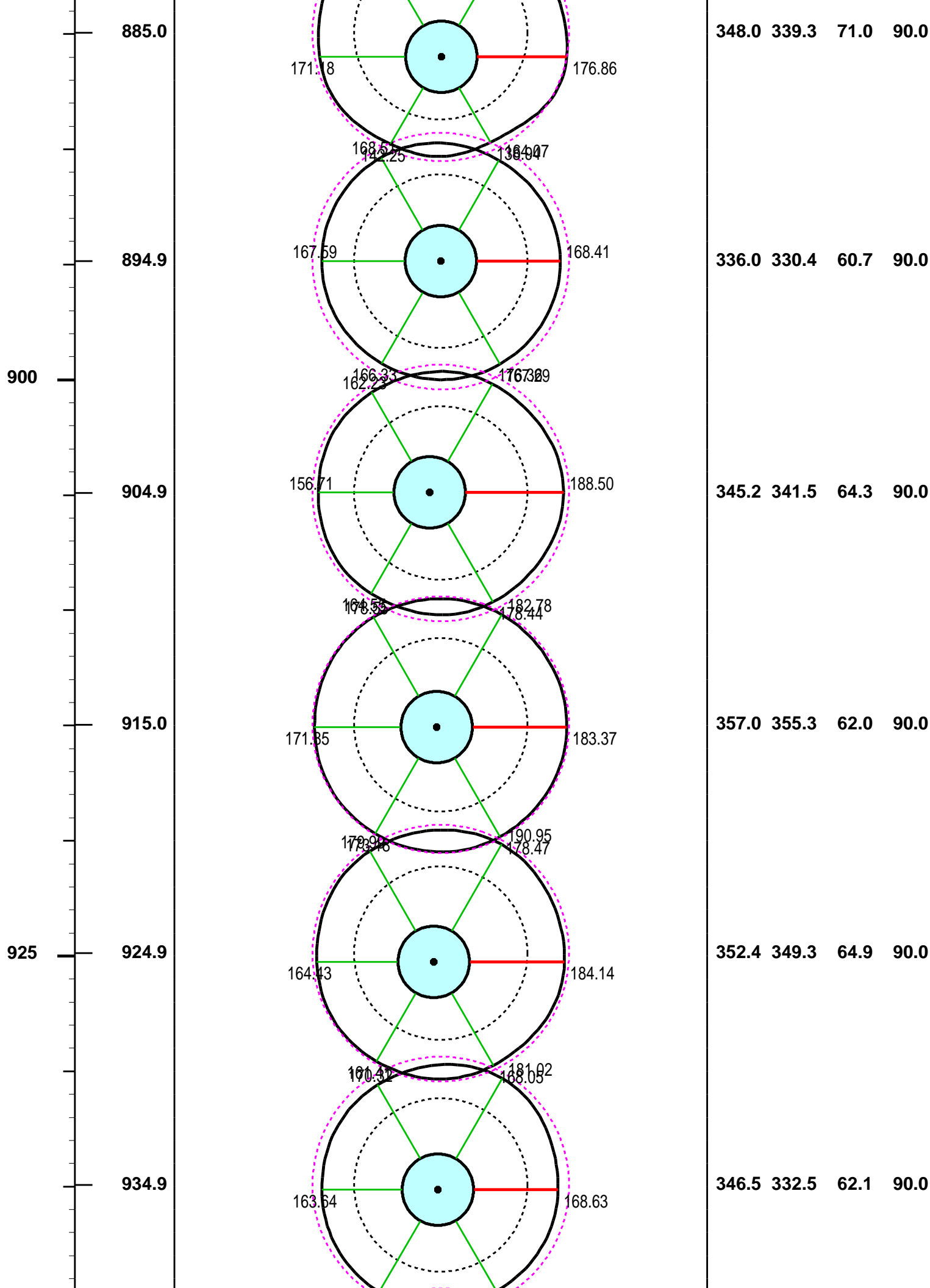
825

824.9



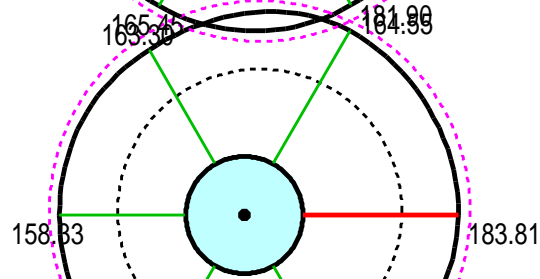
364.2 329.5 66.0 90.0





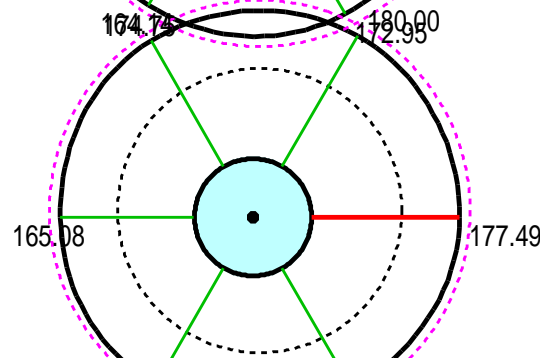
950

945.0



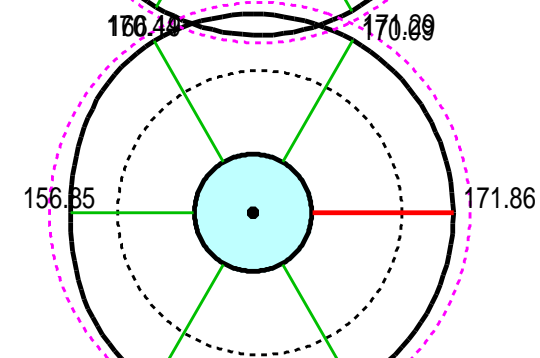
346.0 337.5 64.9 90.0

954.9



346.2 342.8 62.9 90.0

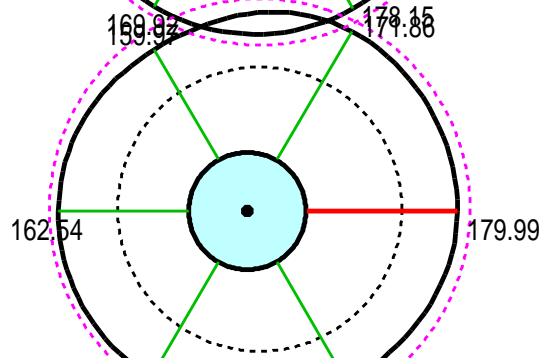
965.0



342.3 328.8 63.0 90.0

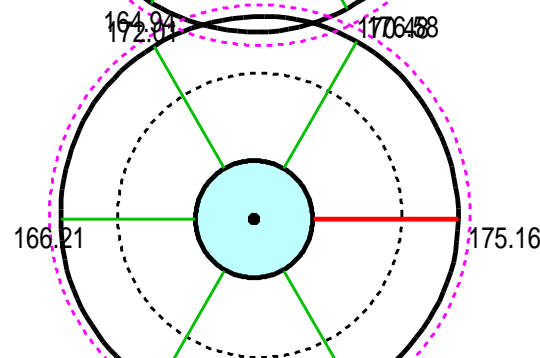
975

974.9



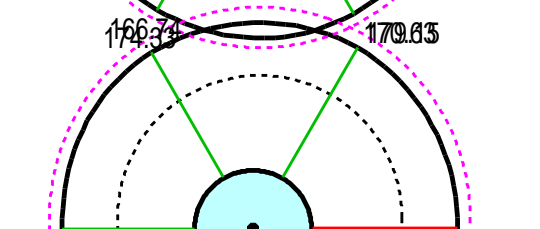
343.1 331.5 64.5 90.0

984.9

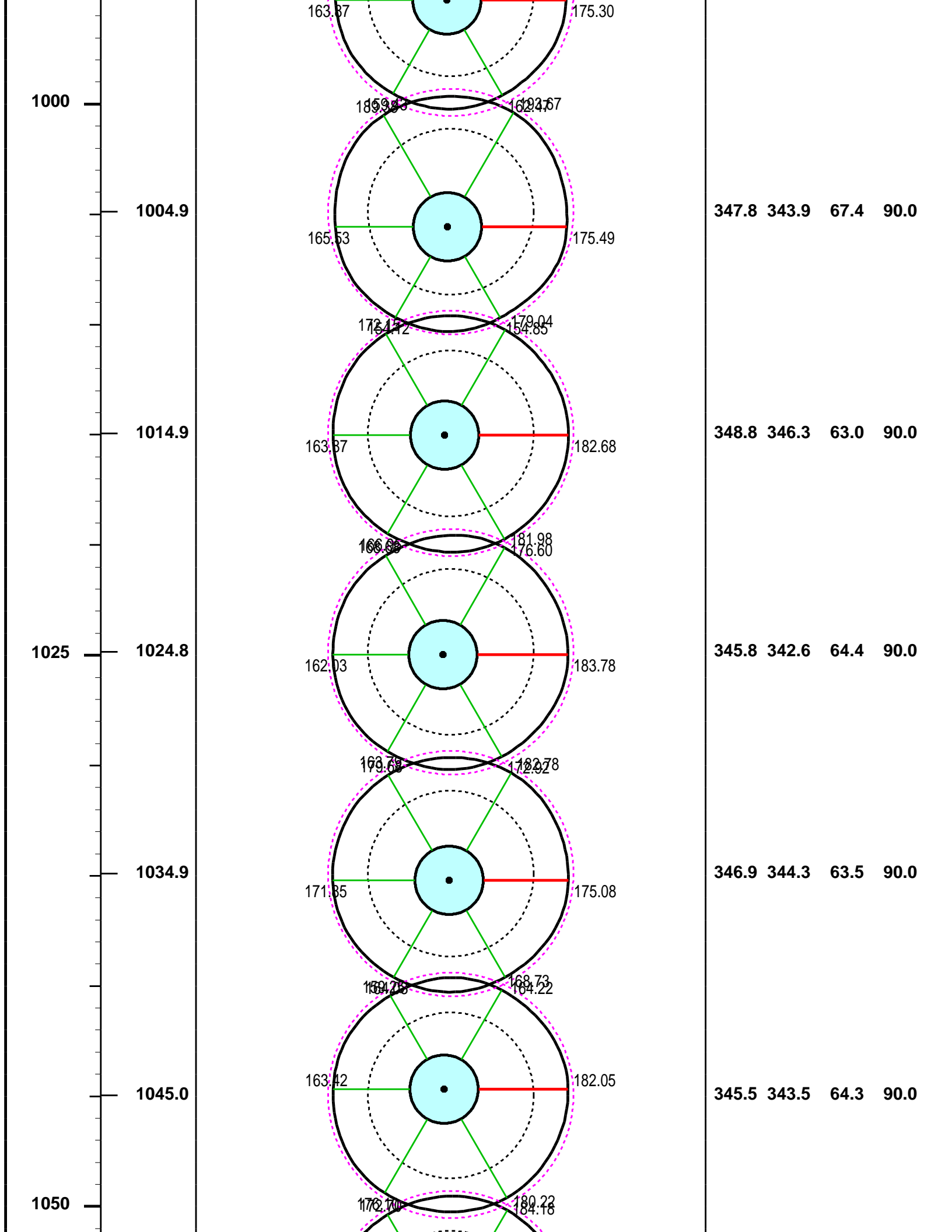


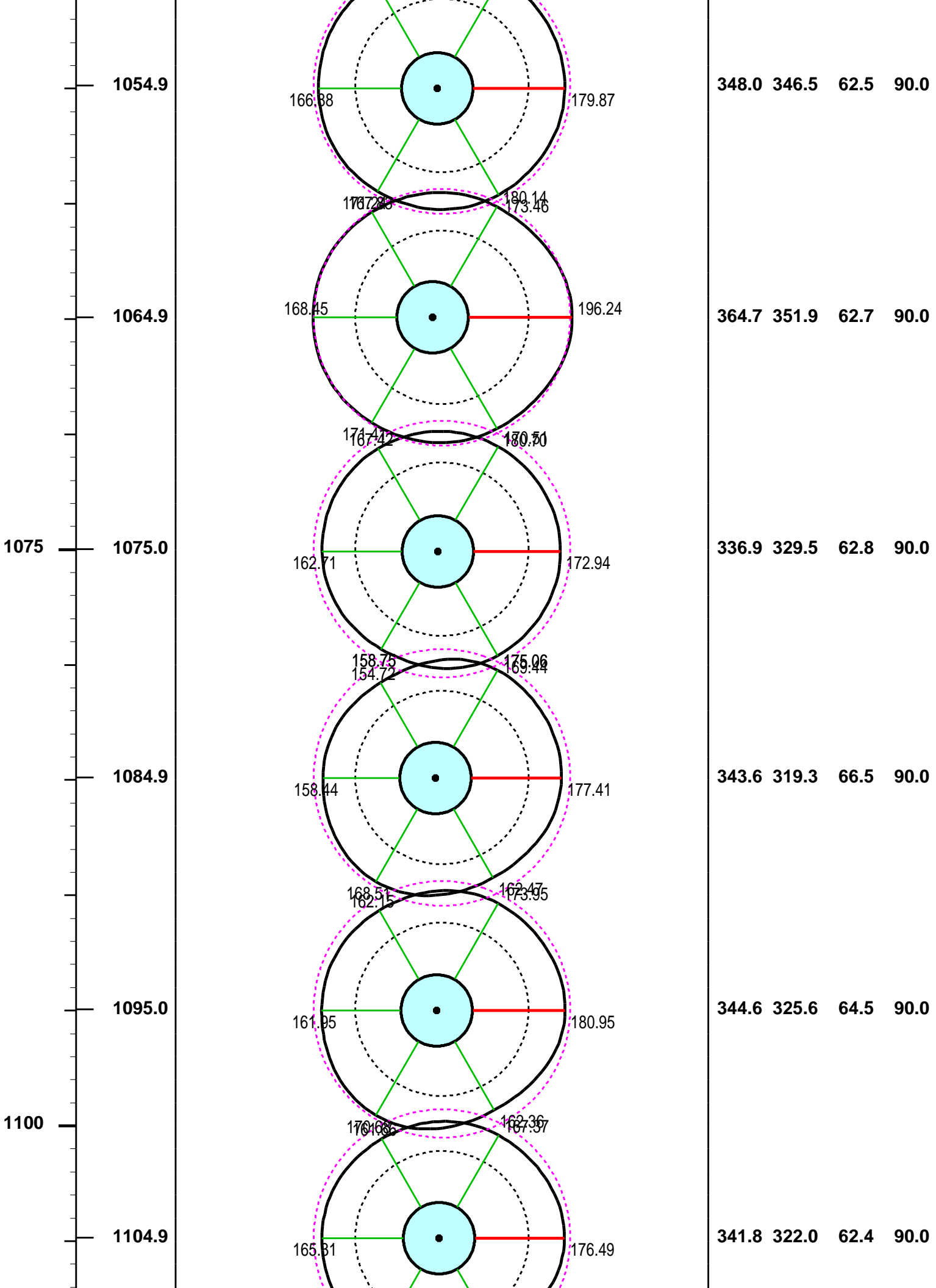
343.3 341.5 62.0 90.0

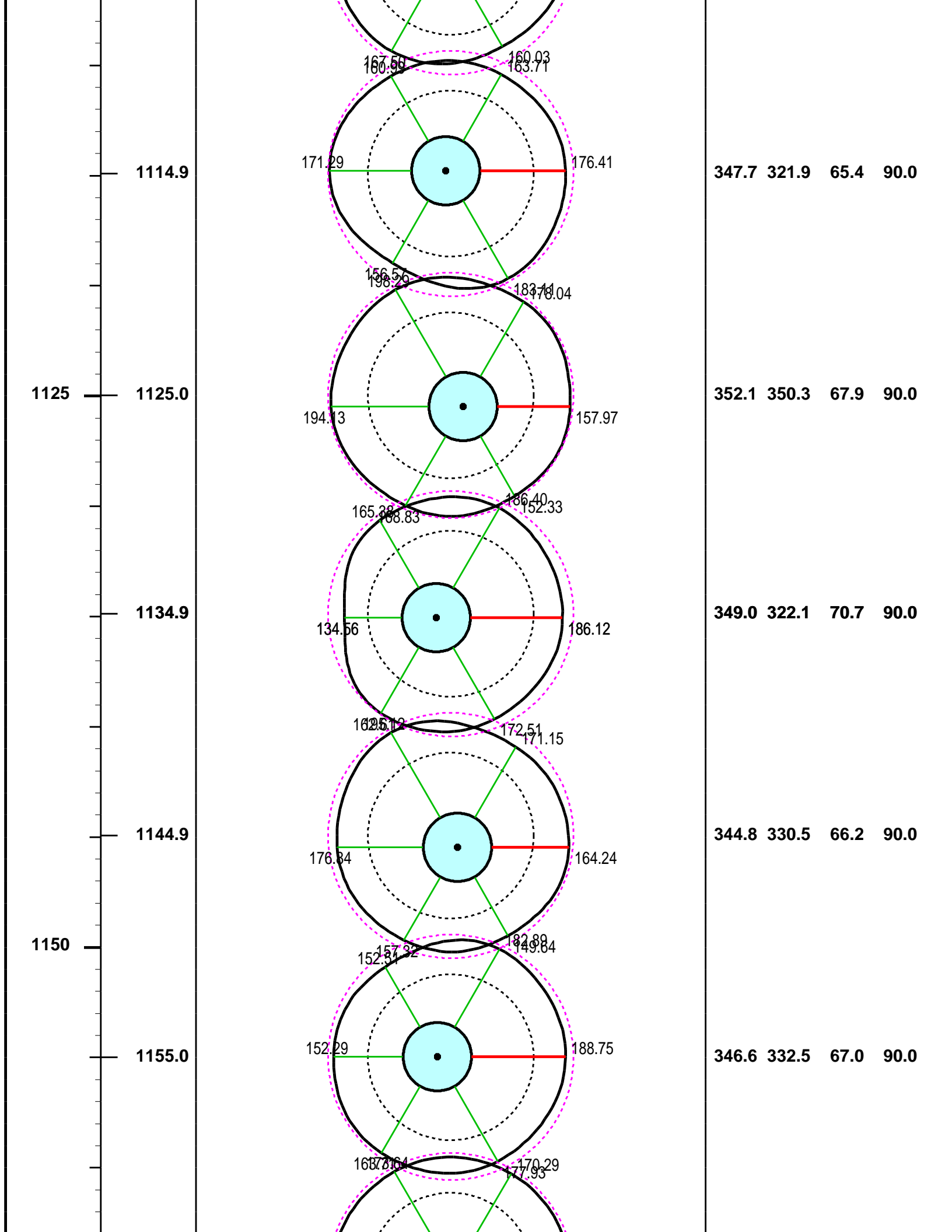
995.0

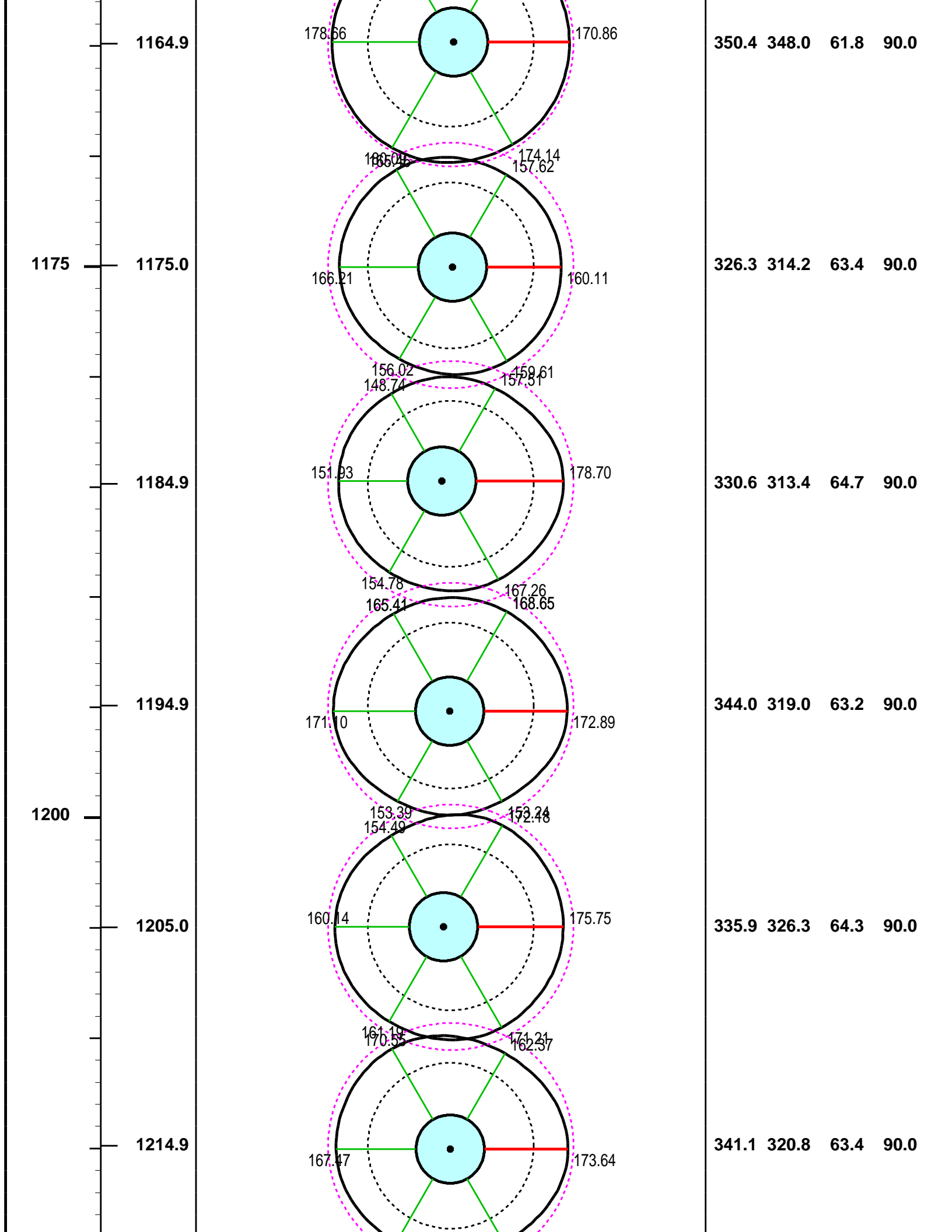


339.2 337.3 63.2 90.0

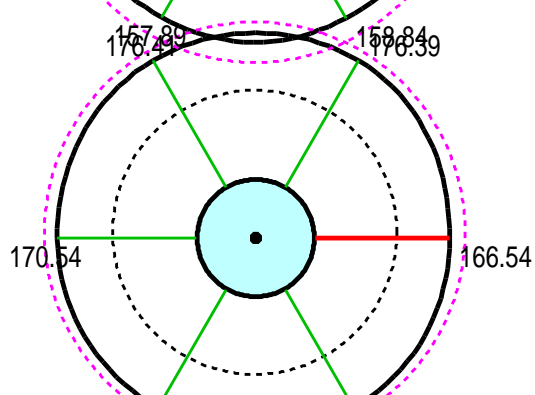






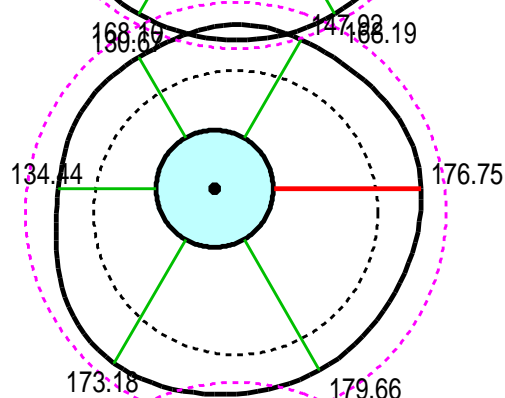


1225 1224.9



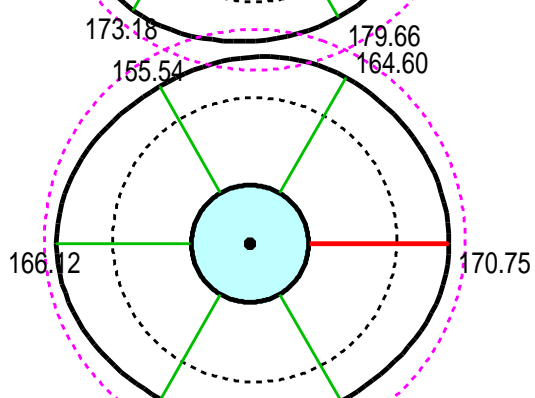
344.6 337.4 62.6 90.0

1234.8



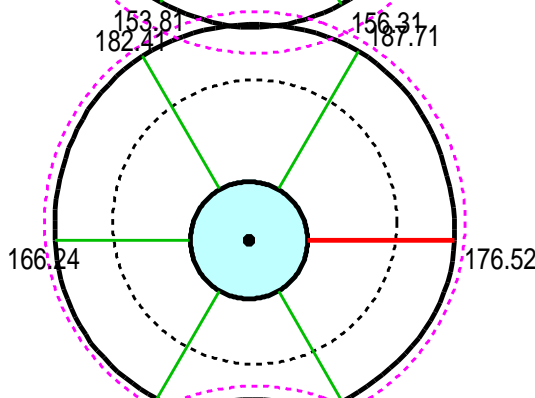
321.1 310.2 69.4 90.0

1244.9



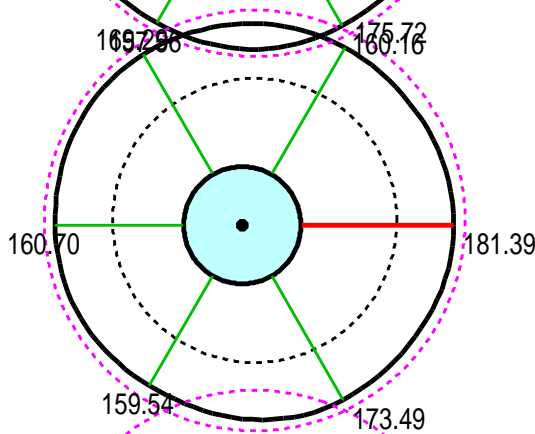
336.9 312.5 63.6 90.0

1250 1255.0



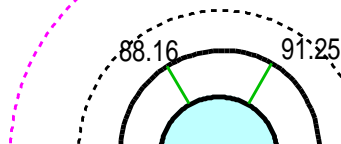
345.3 343.4 65.2 90.0

1264.9

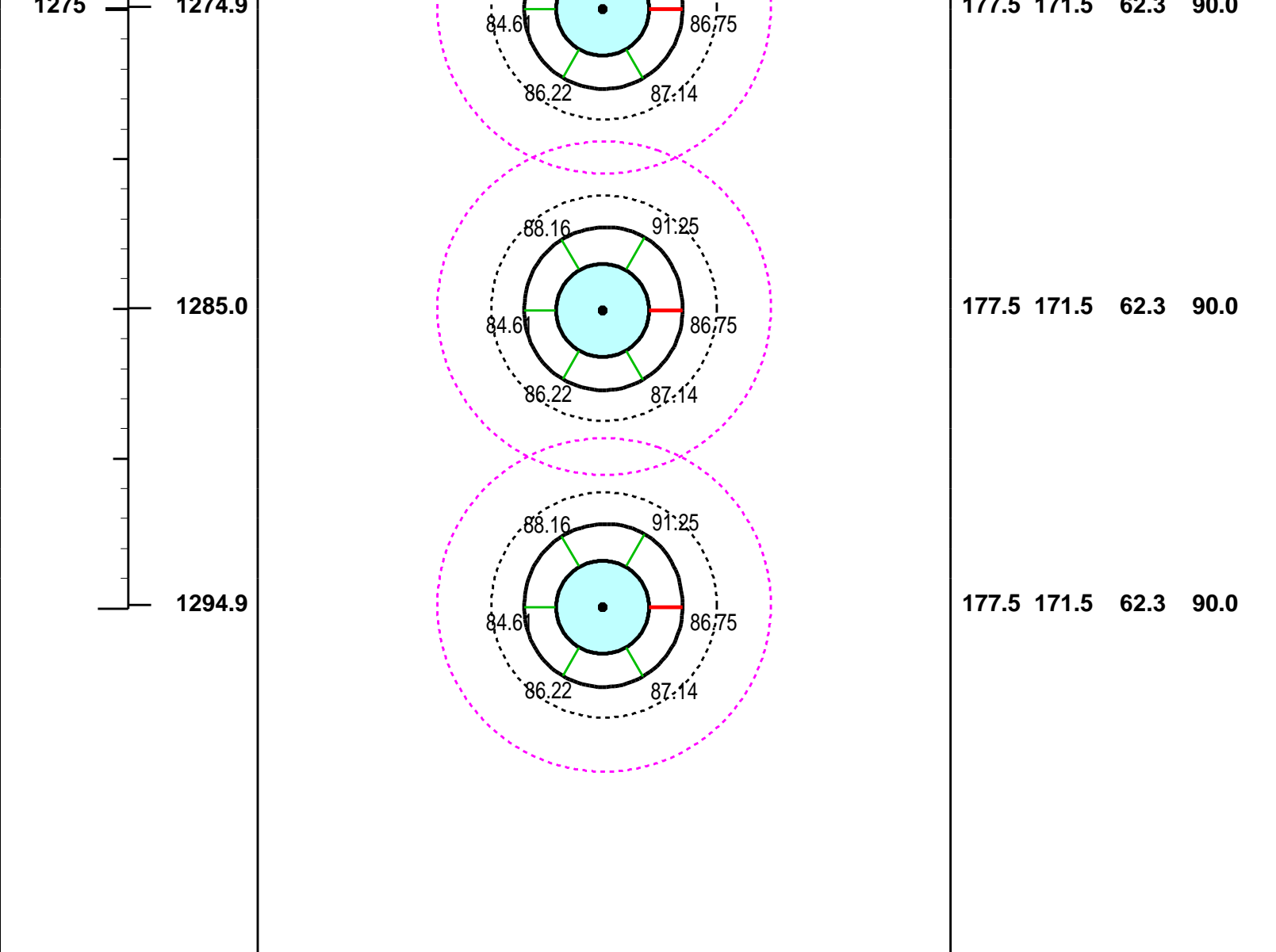


342.8 336.0 64.2 90.0

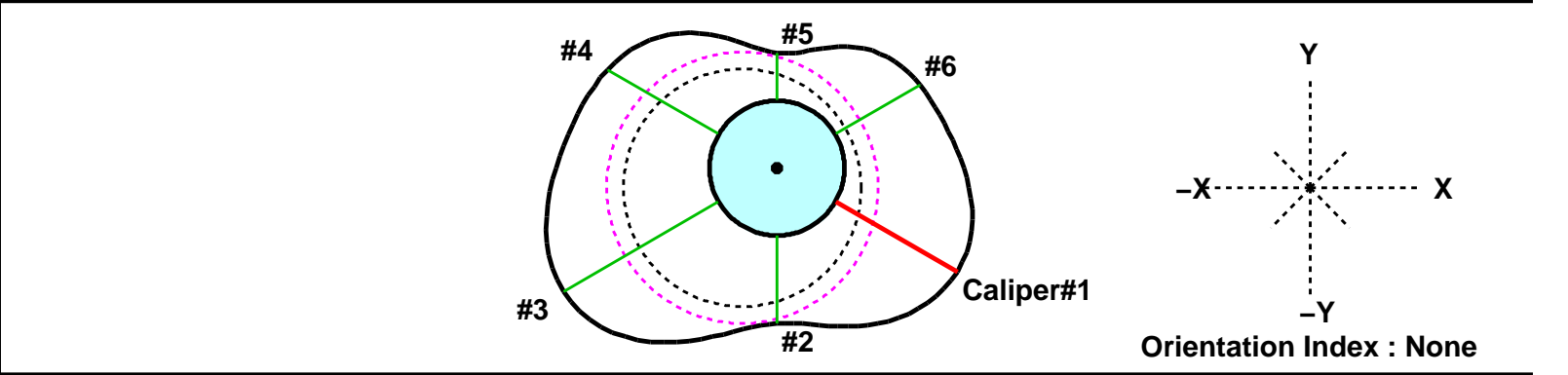
1275 1274.9



177.5 171.5 22.2 90.0



Depth (M)	Future Casing Diameter (FCD)		Borehole Data			
	-375.0	(MM)	375.0	DIA. Max (MM)	DIA. Min (MM)	Conf. Factor (DEG)
	-375.0	Bit Size (BS) (MM)	375.0	Orient Angle (DEG)		



Parameters		
DLIS Name	Description	Value
PCVS	Depth (m) Vertical	2000 M

BGVS	Borehole Graphic Vertical Scale	D200_Metric
BGDI	Borehole Graphic Depth Interval	10_M
BGDM	Borehole Graphic Display Mode	Xsec_Tool_CalAll_Data
BGHW	Borehole Graphic Horizontal Width	750_MM
BGAI	Borehole Graphic Angle Index	None
BGUN	Borehole Graphic Unit	METRIC

Borehole Cross Section

Graphics File Name: BORE_GRAPHIC_8.PDS

Graphics File Created: 06-Mar-2007 14:16

Input DLIS Files

DEFAULT	AIT_CAL_APS_HRLA_081PUP	FN:92	PRODUCER	06-Mar-2007 13:57	1190.4 M	716.0 M
DEFAULT	AIT_CAL_APS_HRLA_070PUP	FN:78	PRODUCER	06-Mar-2007 12:43	1295.2 M	557.0 M

Output DLIS Files

DEFAULT	AIT_CAL_APS_HRLA_085PUP	FN:98	PRODUCER	06-Mar-2007 14:16		
CLIENT_DATA_NOA	AIT_CAL_APS_HRLA_085PUP	FN:99	PRODUCER	06-Mar-2007 14:16		

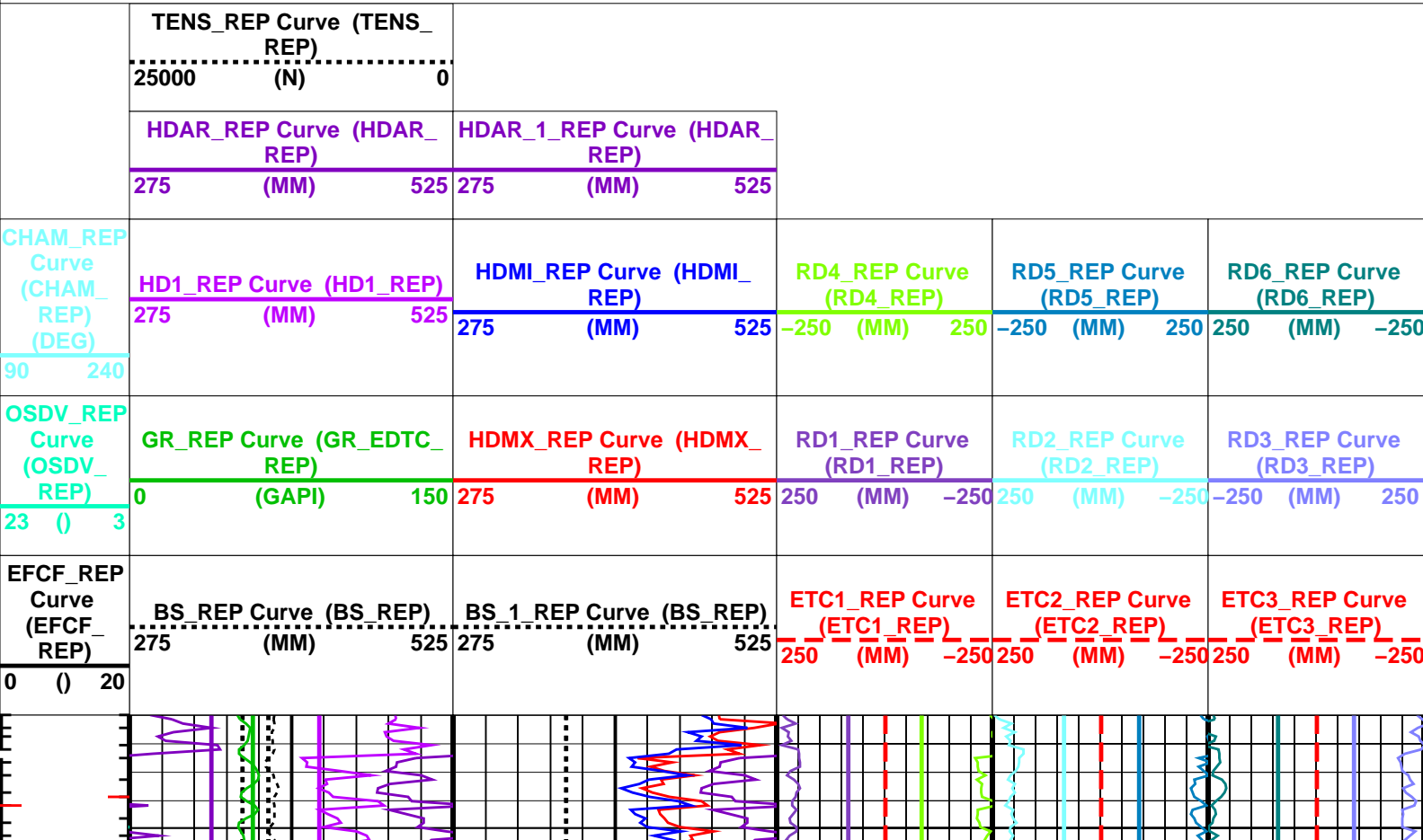
OP System Version: 14C0-302

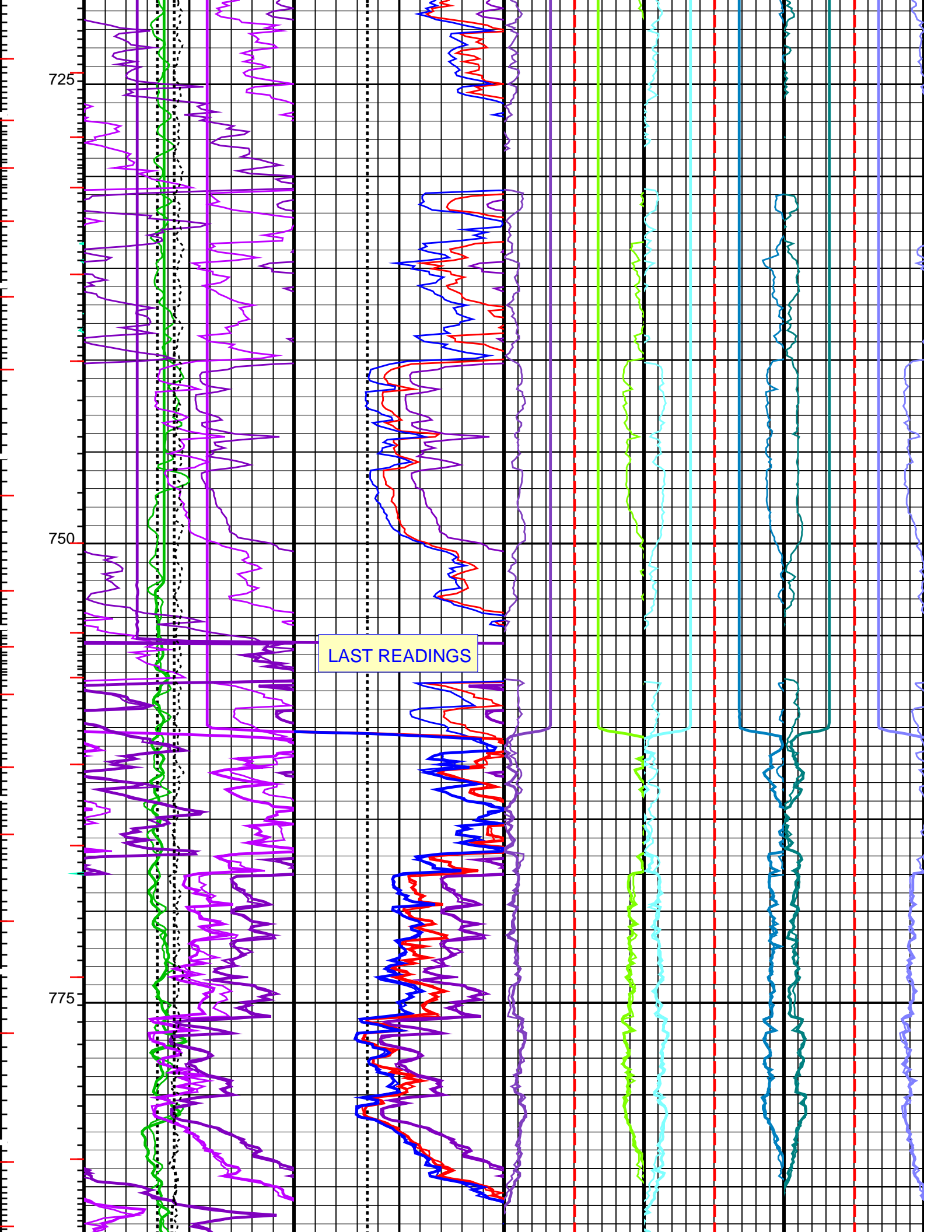
MCM

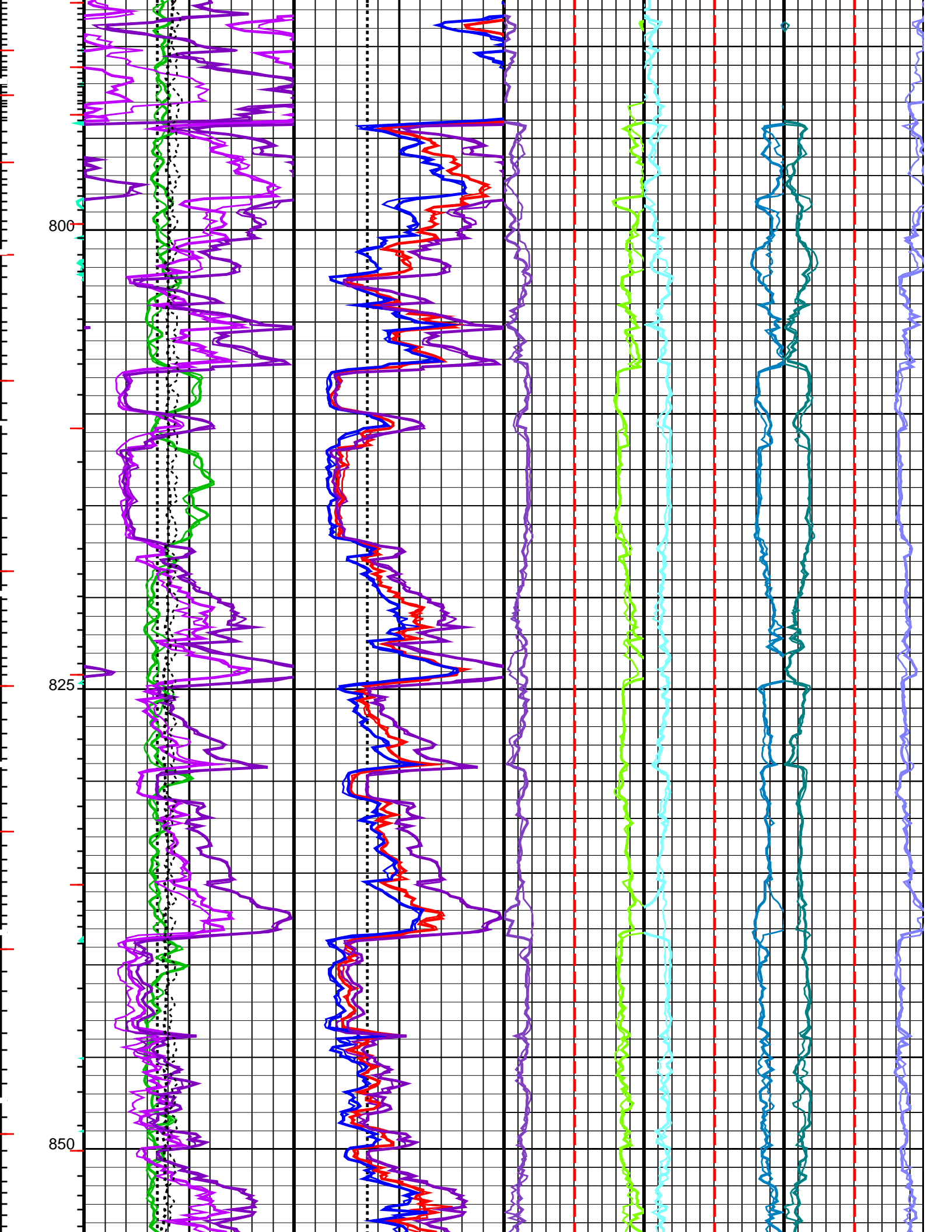
ZAIT-BA	SPC-3254-ZAIT-B_t	PPC2-B	SKK-3060-PPCB_b
APS-C	14C0-302	HRLT-B	14C0-302
EMS-B	14C0-302	GPIT-C	14C0-302
PPC1-B	SKK-3060-PPCB_b	EDTC-B	SKK-3248-EDTCB_b

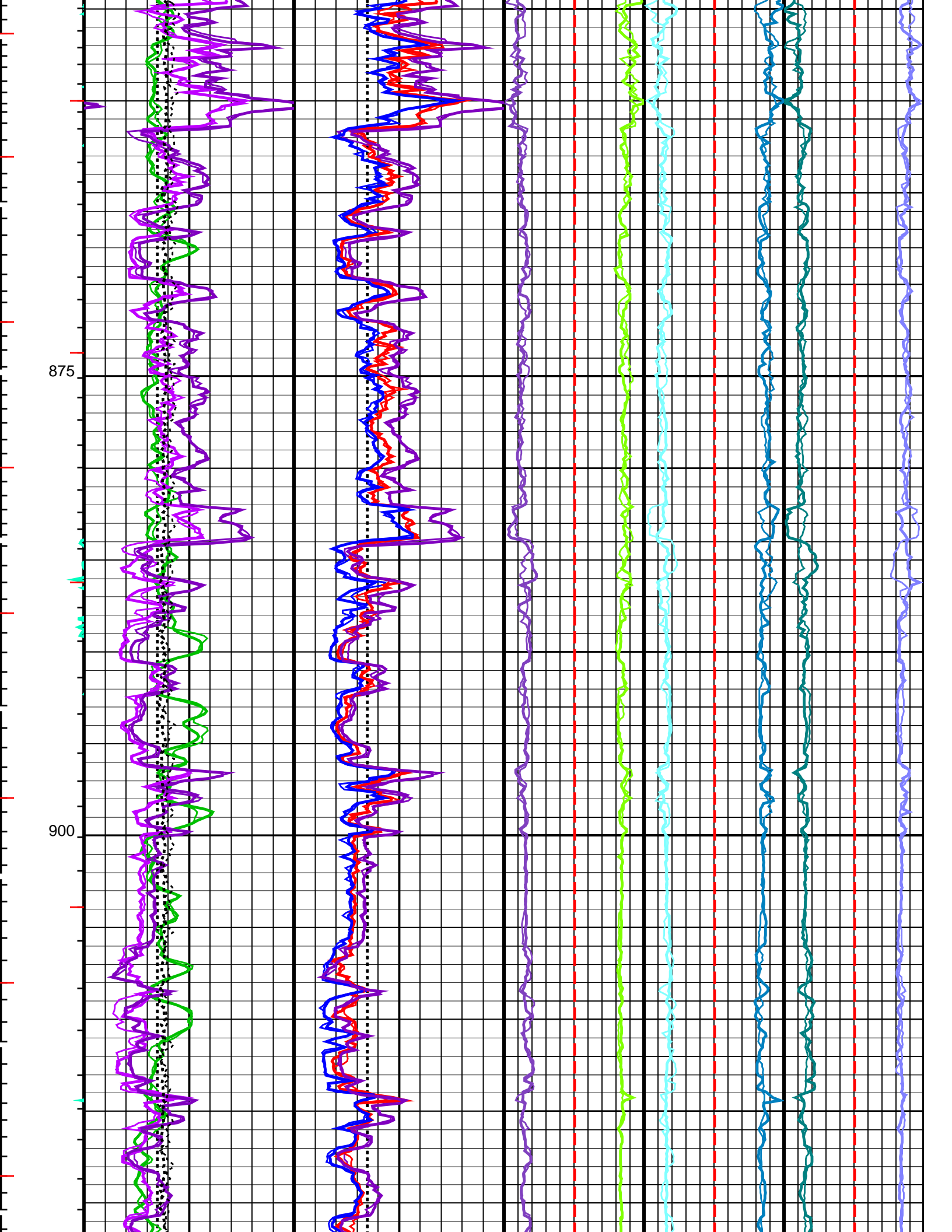
PIP SUMMARY

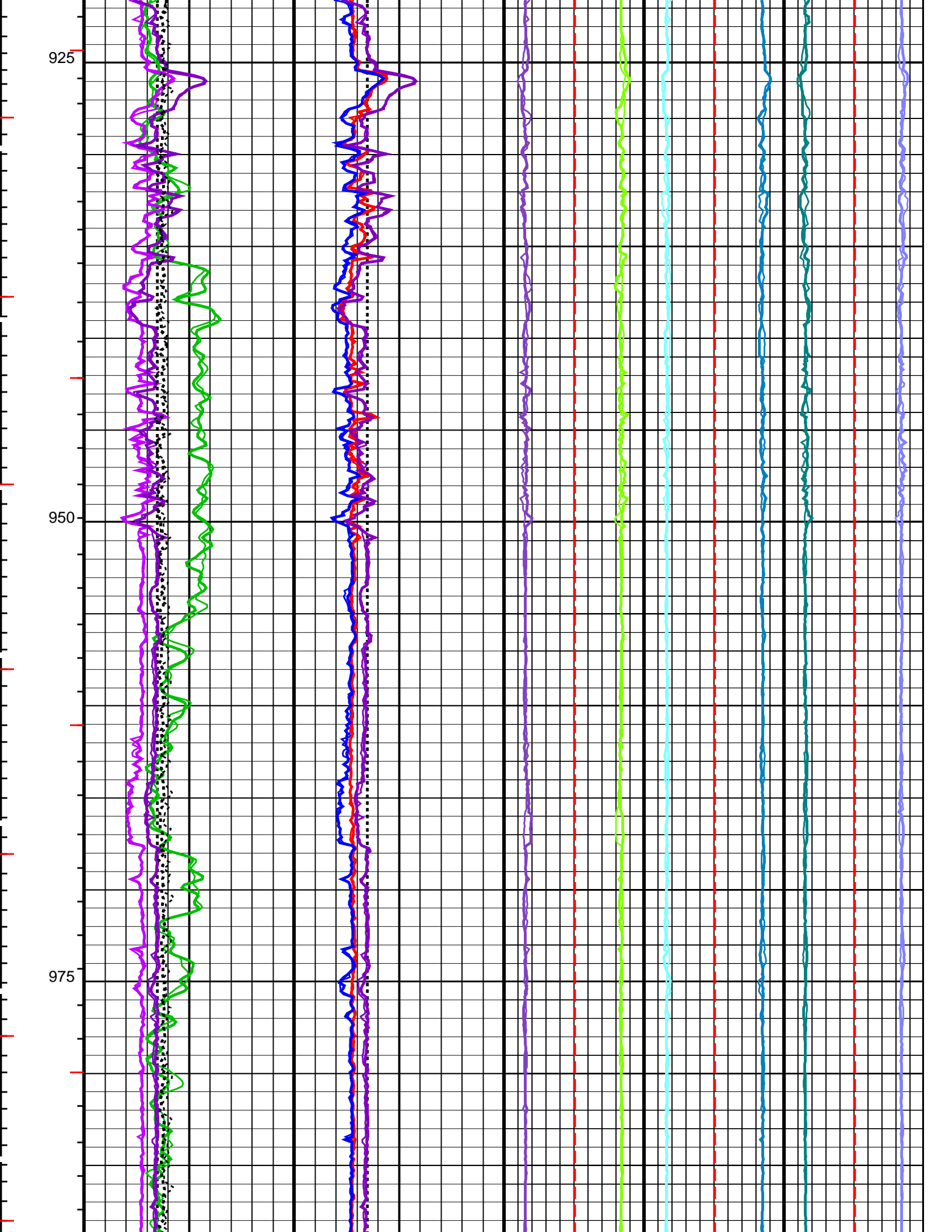
- Integrated Hole Volume Minor Pip Every 0.1 M3
- Integrated Hole Volume Major Pip Every 1 M3
- Integrated Cement Volume Minor Pip Every 0.1 M3
- Integrated Cement Volume Major Pip Every 1 M3
- Time Mark Every 60 S

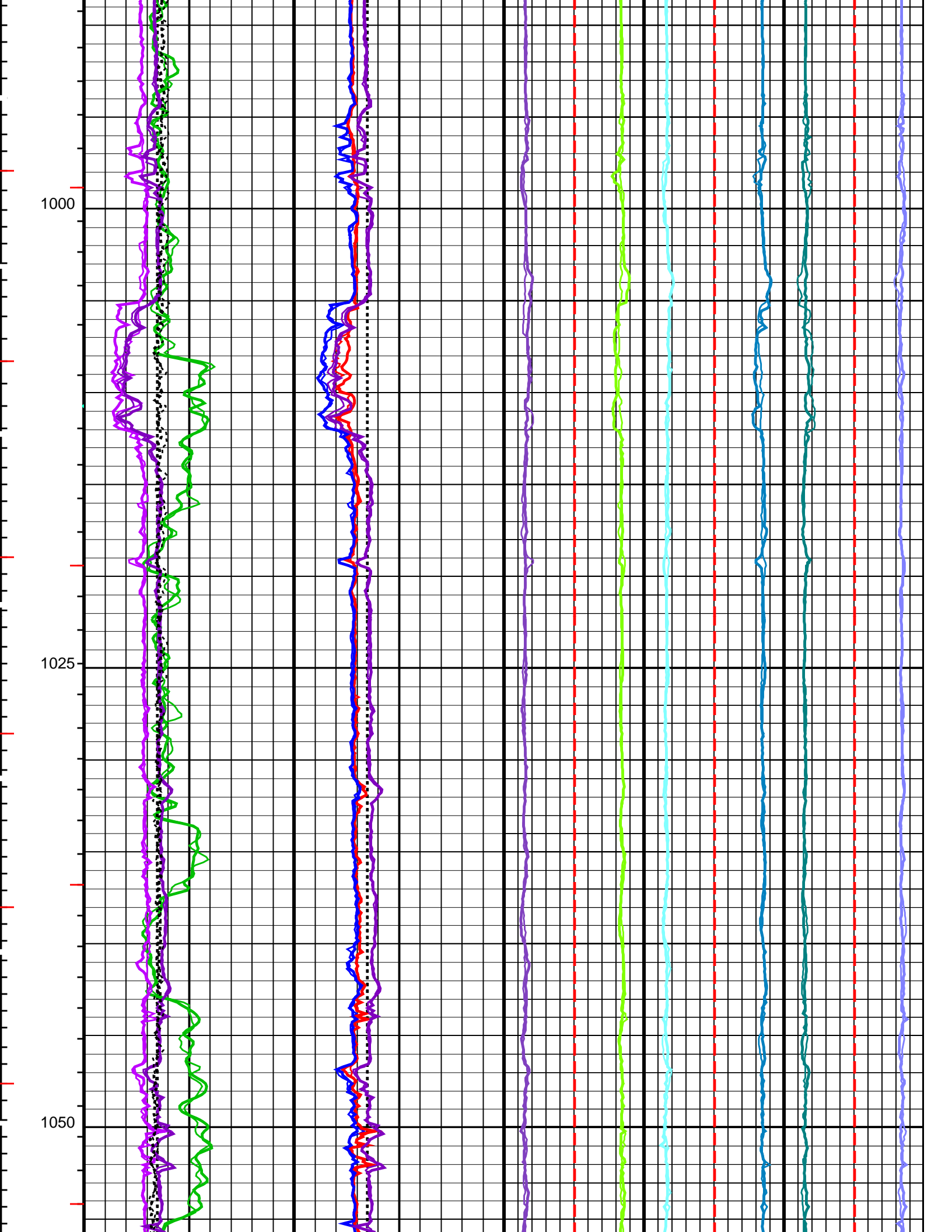


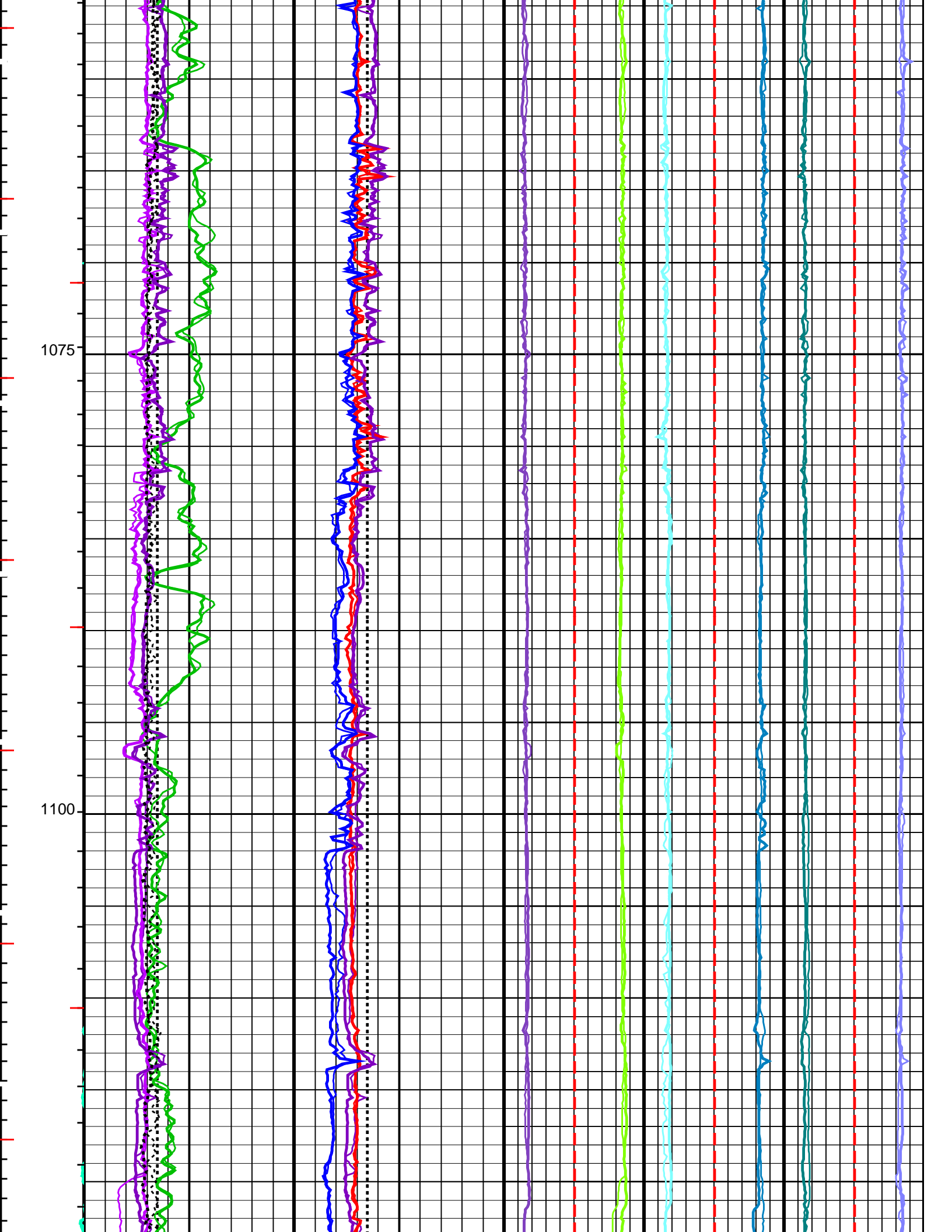


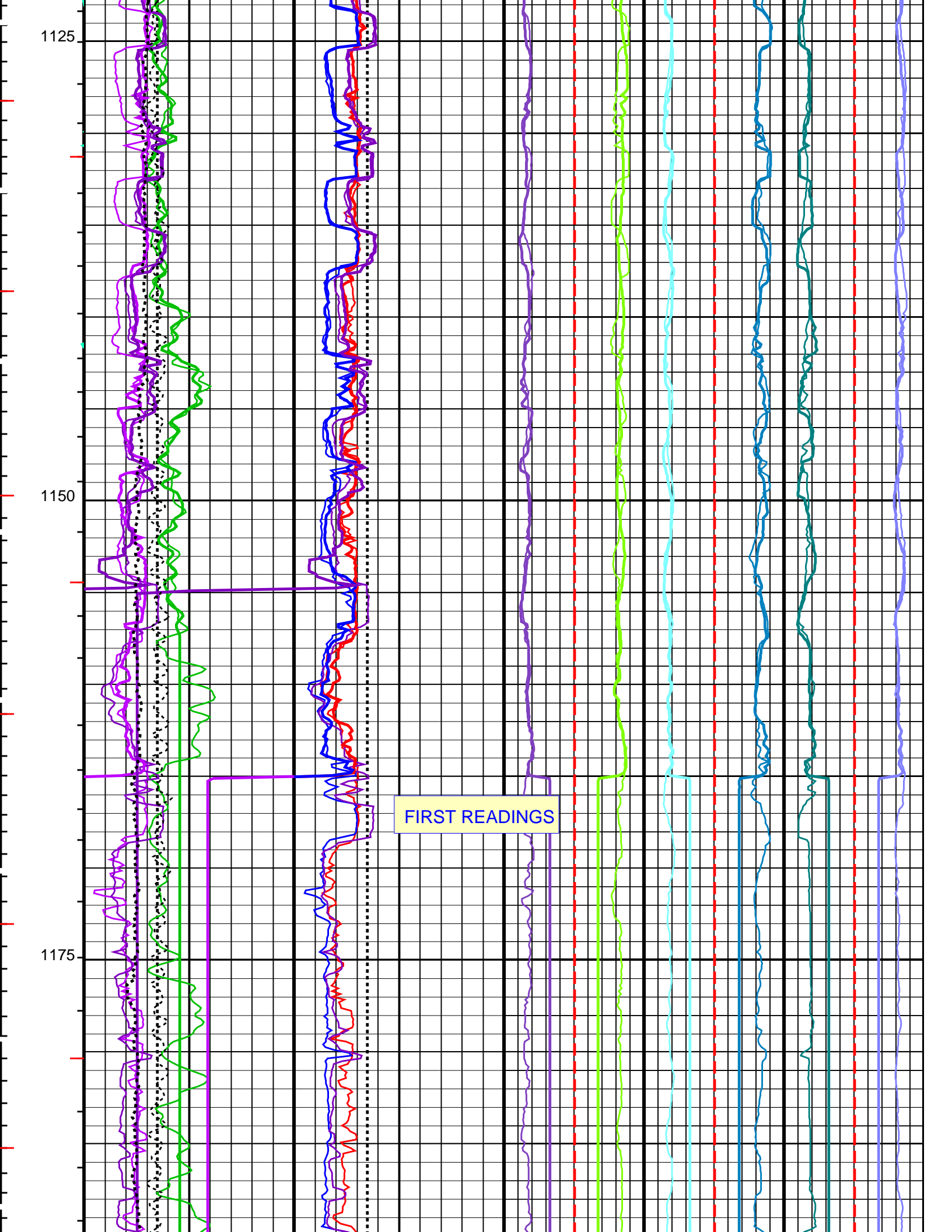












EFCF_REP Curve (EFCF_REP)	BS_REP Curve (BS_REP) 275 (MM) 525	BS_1_REP Curve (BS_REP) 275 (MM) 525	ETC1_REP Curve (ETC1_REP) 250 (MM) -250	ETC2_REP Curve (ETC2_REP) 250 (MM) -250	ETC3_REP Curve (ETC3_REP) 250 (MM) -250
0 () 20					
OSDV_REP Curve (OSDV_REP)	GR_REP Curve (GR_EDTC_REP) 0 (GAPI) 150	HDMX_REP Curve (HDMX_REP) 275 (MM) 525	RD1_REP Curve (RD1_REP) 250 (MM) -250	RD2_REP Curve (RD2_REP) 250 (MM) -250	RD3_REP Curve (RD3_REP) -250 (MM) 250
23 () 3					
CHAM_REP Curve (CHAM_REP) (DEG)	HD1_REP Curve (HD1_REP) 275 (MM) 525	HDMI_REP Curve (HDMI_REP) 275 (MM) 525	RD4_REP Curve (RD4_REP) -250 (MM) 250	RD5_REP Curve (RD5_REP) -250 (MM) 250	RD6_REP Curve (RD6_REP) 250 (MM) -250
90 240					
	HDAR_REP Curve (HDAR_REP) 275 (MM) 525	HDAR_1_REP Curve (HDAR_REP) 275 (MM) 525			
	TENS_REP Curve (TENS_REP) 25000 (N) 0				

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	
TRIRT	ZAIT-BA: 3-D Array Induction Tool – ZAIT-3D Rotation Selector			NorTH	
ECOF	EMS-B: Environment Measurement Sonde				
EFC	EMS Caliper Offset			50.8	MM
ESCL	EMS Fixed Caliper Operation			OFF	
FCD	EMS Synthetic Caliper Log			OFF	
HVCS	Future Casing (Outer) Diameter			244.475	MM
	Integrated Hole Volume Caliper Selection			PPC1_Calipers	
FCD	HOLEV: Integrated Hole/Cement Volume				
HVCS	Future Casing (Outer) Diameter			244.475	MM
	Integrated Hole Volume Caliper Selection			PPC1_Calipers	
	System and Miscellaneous				
BS	Bit Size			361.950	MM
DO	Depth Offset for Playback			0.0	M
DORL	Depth Offset for Repeat Analysis			0.0	M
PP	Playback Processing			RECOMPUTE	
TD	Total Depth			4298	FT

Format: EMS_Caliper1_REP	Vertical Scale: 1:240	Graphics File Created: 06-Mar-2007 14:16
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OP System Version: 14C0-302			
MCM			
ZAIT-BA	SPC-3254-ZAIT-B_t	PPC2-B	SKK-3060-PPCB_b
APS-C	14C0-302	HRLT-B	14C0-302
EMS-B	14C0-302	GPIT-C	14C0-302
PPC1-B	SKK-3060-PPCB_b	EDTC-B	SKK-3248-EDTCB_b

Input DLIS Files						
DEFAULT	AIT_CAL_APS_HRLA_081PUP	FN:92	PRODUCER	06-Mar-2007 13:57	1190.4 M	716.0 M
DEFAULT	AIT_CAL_APS_HRLA_070PUP	FN:78	PRODUCER	06-Mar-2007 12:43	1295.2 M	557.0 M

Output DLIS Files						
DEFAULT	AIT_CAL_APS_HRLA_081PUP	FN:92	PRODUCER	06-Mar-2007 13:57	1190.4 M	716.0 M
DEFAULT	AIT_CAL_APS_HRLA_070PUP	FN:78	PRODUCER	06-Mar-2007 12:43	1295.2 M	557.0 M



CALIBRATIONS

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
3-D Array Induction Tool – ZAIT-B Wellsite Calibration – Electronics Calibration Check – Thru Cal Mag. & Phase							
Master: 29-Jan-2007 15:32 Before: 6-Mar-2007 10:03							
Thru Cal Magnitude – 0	0	1.345	1.345	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 1	0	1.336	1.342	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 2	0	1.387	1.387	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 3	0	3.071	3.081	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 4	0	3.051	3.073	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 5	0	3.167	3.175	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 6	0	2.477	2.486	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 7	0	2.461	2.480	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 8	0	2.559	2.566	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 9	0	1.623	1.648	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 10	0	1.634	1.677	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 11	0	1.796	1.826	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 12	0	3.239	3.240	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 13	0	3.221	3.236	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 14	0	3.346	3.344	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 15	0	2.606	2.648	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 16	0	2.624	2.694	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 17	0	2.884	2.933	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 18	0	0.8449	0.8455	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 19	0	0.8402	0.8443	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 20	0	0.8631	0.8636	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 21	0	3.452	3.512	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 22	0	3.476	3.573	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 23	0	3.821	3.890	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 24	0	1.224	1.228	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 25	0	1.217	1.226	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 26	0	1.250	1.254	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 27	0	3.452	3.512	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 28	0	3.476	3.573	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 29	0	3.821	3.890	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 30	0	1.223	1.227	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 31	0	1.216	1.225	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 32	0	1.250	1.253	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 33	0	0.9808	0.9989	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 34	0	0.9876	1.017	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 35	0	1.071	1.092	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 36	0	1.447	1.453	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 37	0	1.439	1.451	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 38	0	1.474	1.481	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 39	0	1.178	1.200	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 40	0	1.186	1.221	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 41	0	1.286	1.312	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 42	0	2.090	2.099	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 43	0	2.079	2.096	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 44	0	2.129	2.139	N/A	N/A	N/A	MM/M
Thru Cal Phase – 0	0	-174.6	-170.3	N/A	N/A	N/A	DEG
Thru Cal Phase – 1	0	-170.2	-165.5	N/A	N/A	N/A	DEG
Thru Cal Phase – 2	0	-177.4	-170.7	N/A	N/A	N/A	DEG
Thru Cal Phase – 3	0	-176.6	-172.6	N/A	N/A	N/A	DEG
Thru Cal Phase – 4	0	-172.3	-167.8	N/A	N/A	N/A	DEG
Thru Cal Phase – 5	0	-179.4	-173.0	N/A	N/A	N/A	DEG
Thru Cal Phase – 6	0	177.8	-178.1	N/A	N/A	N/A	DEG

Thru Cal Phase – 7	0	-177.9	-173.3	N/A	N/A	N/A	DEG
Thru Cal Phase – 8	0	175.0	-178.4	N/A	N/A	N/A	DEG
Thru Cal Phase – 9	0	-72.00	-68.66	N/A	N/A	N/A	DEG
Thru Cal Phase – 10	0	-60.73	-56.78	N/A	N/A	N/A	DEG
Thru Cal Phase – 11	0	-72.15	-66.48	N/A	N/A	N/A	DEG
Thru Cal Phase – 12	0	-174.8	-170.5	N/A	N/A	N/A	DEG
Thru Cal Phase – 13	0	-170.5	-165.8	N/A	N/A	N/A	DEG
Thru Cal Phase – 14	0	-177.6	-171.0	N/A	N/A	N/A	DEG
Thru Cal Phase – 15	0	-72.38	-69.02	N/A	N/A	N/A	DEG
Thru Cal Phase – 16	0	-61.11	-57.16	N/A	N/A	N/A	DEG
Thru Cal Phase – 17	0	-72.56	-66.88	N/A	N/A	N/A	DEG
Thru Cal Phase – 18	0	-174.3	-170.0	N/A	N/A	N/A	DEG
Thru Cal Phase – 19	0	-170.0	-165.3	N/A	N/A	N/A	DEG
Thru Cal Phase – 20	0	-177.4	-170.6	N/A	N/A	N/A	DEG
Thru Cal Phase – 21	0	-72.91	-69.65	N/A	N/A	N/A	DEG
Thru Cal Phase – 22	0	-61.64	-57.79	N/A	N/A	N/A	DEG
Thru Cal Phase – 23	0	-73.08	-67.48	N/A	N/A	N/A	DEG
Thru Cal Phase – 24	0	-177.2	-173.1	N/A	N/A	N/A	DEG
Thru Cal Phase – 25	0	-172.9	-168.4	N/A	N/A	N/A	DEG
Thru Cal Phase – 26	0	179.7	-173.8	N/A	N/A	N/A	DEG
Thru Cal Phase – 27	0	-72.91	-69.64	N/A	N/A	N/A	DEG
Thru Cal Phase – 28	0	-61.64	-57.78	N/A	N/A	N/A	DEG
Thru Cal Phase – 29	0	-73.11	-67.50	N/A	N/A	N/A	DEG
Thru Cal Phase – 30	0	-177.2	-173.1	N/A	N/A	N/A	DEG
Thru Cal Phase – 31	0	-172.9	-168.4	N/A	N/A	N/A	DEG
Thru Cal Phase – 32	0	179.7	-173.8	N/A	N/A	N/A	DEG
Thru Cal Phase – 33	0	-76.79	-73.46	N/A	N/A	N/A	DEG
Thru Cal Phase – 34	0	-65.38	-61.41	N/A	N/A	N/A	DEG
Thru Cal Phase – 35	0	-77.45	-71.74	N/A	N/A	N/A	DEG
Thru Cal Phase – 36	0	176.7	-179.1	N/A	N/A	N/A	DEG
Thru Cal Phase – 37	0	-179.0	-174.5	N/A	N/A	N/A	DEG
Thru Cal Phase – 38	0	173.6	-179.9	N/A	N/A	N/A	DEG
Thru Cal Phase – 39	0	-76.61	-73.28	N/A	N/A	N/A	DEG
Thru Cal Phase – 40	0	-65.22	-61.24	N/A	N/A	N/A	DEG
Thru Cal Phase – 41	0	-77.31	-71.58	N/A	N/A	N/A	DEG
Thru Cal Phase – 42	0	177.4	-178.5	N/A	N/A	N/A	DEG
Thru Cal Phase – 43	0	-178.3	-173.8	N/A	N/A	N/A	DEG
Thru Cal Phase – 44	0	174.2	-179.1	N/A	N/A	N/A	DEG

3-D Array Induction Tool – ZAIT–B Wellsite Calibration – Electronics Calibration Check – Auxilliary

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Array Induction SPA Plus	0.8360	0.8436	0.8439	N/A	N/A	N/A	V
Array Induction SPA Zero	0	-0.0007702	-0.0008081	N/A	N/A	N/A	V
Array Induction Temperature PI	0.9798	0.9906	0.9913	N/A	N/A	N/A	V
Array Induction Temperature Ze	0	-0.001124	-0.001140	N/A	N/A	N/A	V
Array Induction CalSig Plus	5.000	5.015	5.017	N/A	N/A	N/A	V
Array Induction CalSig Zero	0	-0.01105	-0.01122	N/A	N/A	N/A	V
Array Induction Volt Plus	2.500	5.014	12.04	N/A	N/A	N/A	V
Array Induction Volt Zero	0	-0.01105	-0.02693	N/A	N/A	N/A	V

3-D Array Induction Tool – ZAIT–B Wellsite Calibration – Sonde Error Correction

Master: 29-Jan-2007 15:32

R Sonde Error Correction – 0	0	20.92	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 1	0	754.2	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 2	0	-1325	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 3	0	33.96	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 4	0	154.4	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 5	0	85.67	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 6	0	63.31	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 7	0	148.3	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 8	0	90.72	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 9	0	-492.9	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 10	0	18.30	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 11	0	-119.2	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 12	0	-6.887	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 13	0	-394.3	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 14	0	65.79	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 15	0	52.97	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 16	0	87.06	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 17	0	-85.69	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 18	0	-264.4	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 19	0	2.997	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 20	0	-67.21	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 21	0	-2.146	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 22	0	-171.0	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 23	0	2.315	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 24	0	43.68	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 25	0	57.55	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 26	0	-78.64	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 27	0	-324.3	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 28	0	6.777	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 29	0	-20.82	N/A	N/A	N/A	N/A	MM/M

R Sonde Error Correction – 29	0	-20.02	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 30	0	11.65	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 31	0	-333.3	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 32	0	48.80	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 33	0	5.421	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 34	0	-1.054	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 35	0	124.1	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 36	0	-319.1	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 37	0	6.994	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 38	0	0.5654	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 39	0	1.085	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 40	0	-323.3	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 41	0	15.87	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 42	0	-0.8276	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 43	0	0.7432	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 44	0	47.85	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 45	0	-15.48	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 46	0	-9.021	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 47	0	-31.66	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 48	0	11.94	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 49	0	-17.19	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 50	0	18.09	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 51	0	5.572	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 52	0	8.875	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 53	0	59.44	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 54	0	-2.308	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 55	0	-1.336	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 56	0	-1.396	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 57	0	0.9340	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 58	0	1.078	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 59	0	6.561	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 60	0	4.802	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 61	0	5.034	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 62	0	26.23	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 63	0	-2.579	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 64	0	29.50	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 65	0	-15.76	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 66	0	-19.63	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 67	0	-0.2565	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 68	0	3.726	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 69	0	-6.196	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 70	0	-0.5899	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 71	0	22.25	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 72	0	0.3745	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 73	0	1.286	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 74	0	-1.035	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 75	0	-1.570	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 76	0	2.299	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 77	0	1.771	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 78	0	0.7233	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 79	0	0.7604	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 80	0	10.68	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 81	0	-15.45	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 82	0	-8.384	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 83	0	-11.00	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 84	0	13.94	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 85	0	-15.01	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 86	0	4.540	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 87	0	-0.8786	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 88	0	2.126	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 89	0	3.597	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 90	0	-12.18	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 91	0	-2.645	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 92	0	-1.279	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 93	0	2.192	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 94	0	-10.83	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 95	0	1.041	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 96	0	0.9281	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 97	0	0.2935	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 98	0	3.097	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 99	0	-41.39	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 100	0	15.87	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 101	0	-6.421	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 102	0	-11.33	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 103	0	-45.67	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 104	0	-0.1936	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 105	0	1.150	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 106	0	-1.690	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 107	0	-2.731	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 108	0	-40.59	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 109	0	3.576	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 110	0	-0.6722	N/A	N/A	N/A	N/A	MM/M

R Sonde Error Correction – 111	0	–3.843	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 112	0	–42.31	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 113	0	–0.1958	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 114	0	1.999	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 115	0	–0.4481	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 116	0	2.266	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 0	0	5052	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 1	0	8939	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 2	0	–103.9	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 3	0	2129	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 4	0	830.1	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 5	0	–295.1	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 6	0	700.2	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 7	0	567.0	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 8	0	–25.51	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 9	0	–220.7	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 10	0	–581.3	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 11	0	994.5	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 12	0	1033	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 13	0	–632.1	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 14	0	101.5	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 15	0	–554.7	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 16	0	–705.2	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 17	0	221.6	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 18	0	–380.3	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 19	0	–278.9	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 20	0	485.0	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 21	0	513.5	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 22	0	–557.7	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 23	0	48.64	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 24	0	–300.7	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 25	0	–369.9	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 26	0	74.67	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 27	0	722.8	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 28	0	–93.67	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 29	0	251.6	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 30	0	–837.1	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 31	0	829.5	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 32	0	442.1	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 33	0	–174.6	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 34	0	–100.0	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 35	0	–78.95	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 36	0	421.2	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 37	0	–48.20	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 38	0	122.2	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 39	0	–417.3	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 40	0	470.6	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 41	0	227.7	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 42	0	–78.56	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 43	0	–45.15	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 44	0	–9.689	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 45	0	2082	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 46	0	368.4	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 47	0	780.9	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 48	0	–416.4	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 49	0	1985	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 50	0	139.9	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 51	0	784.0	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 52	0	–98.90	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 53	0	–19.65	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 54	0	1017	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 55	0	188.6	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 56	0	388.1	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 57	0	–209.3	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 58	0	968.0	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 59	0	72.00	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 60	0	391.0	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 61	0	–48.64	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 62	0	2.136	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 63	0	635.4	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 64	0	–951.4	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 65	0	180.9	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 66	0	918.5	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 67	0	611.6	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 68	0	30.84	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 69	0	286.1	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 70	0	–46.72	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 71	0	18.34	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 72	0	262.4	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 73	0	–472.1	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 74	0	86.88	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 75	0	457.0	N/A	N/A	N/A	N/A	MM/M

X Sonde Error Correction – 75	0	437.0	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 76	0	250.6	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 77	0	17.22	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 78	0	139.4	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 79	0	-23.30	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 80	0	16.27	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 81	0	315.8	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 82	0	586.9	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 83	0	112.2	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 84	0	-578.9	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 85	0	295.3	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 86	0	-83.63	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 87	0	7.633	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 88	0	-185.6	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 89	0	20.93	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 90	0	84.33	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 91	0	298.5	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 92	0	55.94	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 93	0	-297.9	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 94	0	74.61	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 95	0	-40.80	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 96	0	3.809	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 97	0	-91.97	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 98	0	14.05	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 99	0	152.7	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 100	0	-416.8	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 101	0	-42.07	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 102	0	450.4	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 103	0	156.3	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 104	0	-17.73	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 105	0	-3.397	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 106	0	24.17	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 107	0	55.88	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 108	0	126.8	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 109	0	-220.5	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 110	0	-21.33	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 111	0	234.5	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 112	0	128.4	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 113	0	-4.797	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 114	0	-1.614	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 115	0	14.76	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 116	0	8.951	N/A	N/A	N/A	N/A	MM/M

Powered Positioning Device/Caliper 2 Wellsite Calibration – PPC2 Caliper Calibration

Before: 5–Mar–2007 19:34

PPC2 Radius 1 Raw Small Radius	88.90	N/A	139.6	N/A	N/A	12.70	MM
PPC2 Radius 1 Raw Large Radius	203.2	N/A	245.1	N/A	N/A	12.70	MM
PPC2 Radius 2 Raw Small Radius	88.90	N/A	59.05	N/A	N/A	12.70	MM
PPC2 Radius 2 Raw Large Radius	203.2	N/A	169.2	N/A	N/A	12.70	MM
PPC2 Radius 3 Raw Small Radius	88.90	N/A	135.0	N/A	N/A	12.70	MM
PPC2 Radius 3 Raw Large Radius	203.2	N/A	242.2	N/A	N/A	12.70	MM
PPC2 Radius 4 Raw Small Radius	88.90	N/A	75.27	N/A	N/A	12.70	MM
PPC2 Radius 4 Raw Large Radius	203.2	N/A	186.6	N/A	N/A	12.70	MM

Accelerator–Porosity Tool Wellsite Calibration – Detector Background

Master: 12–Jan–2007 23:16 Before: 5–Mar–2007 14:09

Near Det Bkg Cntrate	30.00	26.50	25.71	N/A	N/A	N/A	CPS
Far Det Bkg Cntrate	30.00	25.93	25.16	N/A	N/A	N/A	CPS
Array–1 Det Bkg Cntrate	30.00	26.01	25.06	N/A	N/A	N/A	CPS
Array–2 Det Bkg Cntrate	30.00	26.06	25.75	N/A	N/A	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	25.75	25.43	N/A	N/A	N/A	CPS

Accelerator–Porosity Tool Wellsite Calibration – Calibration Ratios

Master: 12–Jan–2007 23:16

Near/Far Calibration Ratio	0.9250	0.9971	N/A	N/A	N/A	N/A
Near/Array Calibration Ratio	1.030	1.039	N/A	N/A	N/A	N/A
Near/Array Cal Ratio Up/Down	1.000	1.011	N/A	N/A	N/A	N/A

Accelerator–Porosity Tool Wellsite Calibration – Tank Check

Master: 12–Jan–2007 23:16

Array–1 Standoff Porosity	0.1175	0.1109	N/A	N/A	N/A	N/A	V/V
Array–2 Standoff Porosity	0.1175	0.1131	N/A	N/A	N/A	N/A	V/V
Average Slowing Down Time	6.000	5.901	N/A	N/A	N/A	N/A	US
Array–1 SDT Ratio Up/Down	1.000	0.9697	N/A	N/A	N/A	N/A	
Array–2 SDT Ratio Up/Down	1.000	0.9845	N/A	N/A	N/A	N/A	
Sigma Formation	2.750	2.723	N/A	N/A	N/A	N/A	M–1

Accelerator–Porosity Tool Wellsite Calibration – CCR7 signal boxes

Master: 12–Jan–2007 23:16

Near Detector Plateau Setting	1650	1728	N/A	N/A	N/A	N/A	V
Far Detector Plateau Setting	2000	2061	N/A	N/A	N/A	N/A	V
Array Detector Plateau Setting	2000	1968	N/A	N/A	N/A	N/A	V

High Resolution Laterolog Array – B Wellsite Calibration – HRLT M01

Before: 6–Mar–2007 11:09

HRLT M0–M1 Voltage Plus – 0	0	N/A	–317.8	N/A	N/A	9.681	UV
HRLT M0–M1 Voltage Plus – 1	0	N/A	–325.7	N/A	N/A	9.681	UV
HRLT M0–M1 Voltage Plus – 2	0	N/A	–320.0	N/A	N/A	9.681	UV
HRLT M0–M1 Voltage Plus – 3	0	N/A	–326.9	N/A	N/A	9.681	UV
HRLT M0–M1 Voltage Plus – 4	0	N/A	–316.2	N/A	N/A	9.681	UV
HRLT M0–M1 Voltage Plus – 5	0	N/A	–320.8	N/A	N/A	9.681	UV
HRLT M0–M1 Voltage Plus – 6	0	N/A	347.6	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: 6–Mar–2007 11:09

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	1806	N/A	N/A	53.42	UV
HRLT M1–M2 Voltage Plus – 2	0	N/A	1766	N/A	N/A	53.42	UV
HRLT M1–M2 Voltage Plus – 3	0	N/A	1801	N/A	N/A	53.42	UV
HRLT M1–M2 Voltage Plus – 4	0	N/A	1740	N/A	N/A	53.42	UV
HRLT M1–M2 Voltage Plus – 5	0	N/A	1765	N/A	N/A	53.42	UV
HRLT M1–M2 Voltage Plus – 6	0	N/A	–1936	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: 6–Mar–2007 11:09

HRLT M2–M3 Voltage Plus – 0	0	N/A	1735	N/A	N/A	53.42	UV
HRLT M2–M3 Voltage Plus – 1	0	N/A	1799	N/A	N/A	53.42	UV
HRLT M2–M3 Voltage Plus – 2	0	N/A	1761	N/A	N/A	53.42	UV
HRLT M2–M3 Voltage Plus – 3	0	N/A	1801	N/A	N/A	53.42	UV
HRLT M2–M3 Voltage Plus – 4	0	N/A	1734	N/A	N/A	53.42	UV
HRLT M2–M3 Voltage Plus – 5	0	N/A	1760	N/A	N/A	53.42	UV
HRLT M2–M3 Voltage Plus – 6	0	N/A	–1916	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: 6–Mar–2007 11:09

HRLT A3–A4 Voltage Plus – 0	0	N/A	68490	N/A	N/A	2100	UV
HRLT A3–A4 Voltage Plus – 1	0	N/A	70610	N/A	N/A	2100	UV
HRLT A3–A4 Voltage Plus – 2	0	N/A	69450	N/A	N/A	2100	UV
HRLT A3–A4 Voltage Plus – 3	0	N/A	71320	N/A	N/A	2100	UV
HRLT A3–A4 Voltage Plus – 4	0	N/A	68690	N/A	N/A	2100	UV
HRLT A3–A4 Voltage Plus – 5	0	N/A	69780	N/A	N/A	2100	UV
HRLT A3–A4 Voltage Plus – 6	0	N/A	–74180	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: 6–Mar–2007 11:09

HRLT A4–A5 Voltage Plus – 0	0	N/A	68340	N/A	N/A	2100	UV
HRLT A4–A5 Voltage Plus – 1	0	N/A	71060	N/A	N/A	2100	UV
HRLT A4–A5 Voltage Plus – 2	0	N/A	69750	N/A	N/A	2100	UV
HRLT A4–A5 Voltage Plus – 3	0	N/A	71490	N/A	N/A	2100	UV
HRLT A4–A5 Voltage Plus – 4	0	N/A	68650	N/A	N/A	2100	UV
HRLT A4–A5 Voltage Plus – 5	0	N/A	69660	N/A	N/A	2100	UV
HRLT A4–A5 Voltage Plus – 6	0	N/A	–74690	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: 6–Mar–2007 11:09

HRLT A5–A6 Voltage Plus – 0	0	N/A	68470	N/A	N/A	2100	UV
HRLT A5–A6 Voltage Plus – 1	0	N/A	70830	N/A	N/A	2100	UV
HRLT A5–A6 Voltage Plus – 2	0	N/A	69620	N/A	N/A	2100	UV
HRLT A5–A6 Voltage Plus – 3	0	N/A	71420	N/A	N/A	2100	UV
HRLT A5–A6 Voltage Plus – 4	0	N/A	68720	N/A	N/A	2100	UV
HRLT A5–A6 Voltage Plus – 5	0	N/A	69750	N/A	N/A	2100	UV
HRLT A5–A6 Voltage Plus – 6	0	N/A	–74430	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: 6–Mar–2007 11:09

HRLT Torpedo–M0 Voltage – 0	0	N/A	–68030	N/A	N/A	2100	UV
HRLT Torpedo–M0 Voltage – 1	0	N/A	–70740	N/A	N/A	2100	UV
HRLT Torpedo–M0 Voltage – 2	0	N/A	–69510	N/A	N/A	2100	UV
HRLT Torpedo–M0 Voltage – 3	0	N/A	–71360	N/A	N/A	2100	UV
HRLT Torpedo–M0 Voltage – 4	0	N/A	–68680	N/A	N/A	2100	UV
HRLT Torpedo–M0 Voltage – 5	0	N/A	–69760	N/A	N/A	2100	UV
HRLT Torpedo–M0 Voltage – 6	0	N/A	74270	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: 6–Mar–2007 11:09

HRLT Bridle#9–M0 Voltage – 0	0	N/A	–68090	N/A	N/A	2100	UV
HRLT Bridle#9–M0 Voltage – 1	0	N/A	70040	N/A	N/A	2100	UV

HRLT Bridle#9-M0 Voltage - 1	0	N/A	-70940	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 2	0	N/A	-69700	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 3	0	N/A	-71520	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 4	0	N/A	-68780	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 5	0	N/A	-69820	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 6	0	N/A	74500	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: 6-Mar-2007 11:09

HRLT Source Current Plus - 0	0	N/A	283.5	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: 6-Mar-2007 11:09

HRLT Vertical Voltage PI - 0	0	N/A	-320.2	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 1	0	N/A	-321.5	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 2	0	N/A	-314.6	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 3	0	N/A	-319.6	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 4	0	N/A	-306.4	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 5	0	N/A	-325.7	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 6	0	N/A	356.3	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 7	0	N/A	-322.7	N/A	N/A	9.681	UV

Environment Measurement Sonde Wellsite Calibration - EMS Caliper Calibration

Before: 5-Mar-2007 14:59

Radius 1 Short Radius	101.6	N/A	99.22	N/A	N/A	5.080	MM
Radius 1 Long Radius	152.4	N/A	159.4	N/A	N/A	5.080	MM
Radius 2 Short Radius	152.4	N/A	165.6	N/A	N/A	5.080	MM
Radius 2 Long Radius	101.6	N/A	104.3	N/A	N/A	5.080	MM
Radius 3 Short Radius	101.6	N/A	94.45	N/A	N/A	5.080	MM
Radius 3 Long Radius	152.4	N/A	156.2	N/A	N/A	5.080	MM
Radius 4 Short Radius	152.4	N/A	161.6	N/A	N/A	5.080	MM
Radius 4 Long Radius	101.6	N/A	101.9	N/A	N/A	5.080	MM
Radius 5 Short Radius	101.6	N/A	95.89	N/A	N/A	5.080	MM
Radius 5 Long Radius	152.4	N/A	154.5	N/A	N/A	5.080	MM
Radius 6 Short Radius	152.4	N/A	156.3	N/A	N/A	5.080	MM
Radius 6 Long Radius	101.6	N/A	95.78	N/A	N/A	5.080	MM

General Purpose Inclinator Wellsite Calibration - CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY

Before: 6-Mar-2007 9:09

TEMPERATURE REFERENCE :	N/A	N/A	20	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	6	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	12	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	1071	N/A	N/A	N/A	

General Purpose Inclinator Wellsite Calibration - CROUZET MAGNETOMETER PROM HAS BEEN READ CORRECTLY

Before: 6-Mar-2007 9:09

TEMPERATURE REFERENCE :	N/A	N/A	22	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	6	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	11	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	760	N/A	N/A	N/A	

Powered Positioning Device/Caliper 1 Wellsite Calibration - PPC1 Caliper Calibration

Before: 6-Mar-2007 4:43

PPC1 Radius 1 Raw Small Radius	88.90	N/A	137.5	N/A	N/A	12.70	MM
PPC1 Radius 1 Raw Large Radius	203.2	N/A	244.4	N/A	N/A	12.70	MM
PPC1 Radius 2 Raw Small Radius	88.90	N/A	55.65	N/A	N/A	12.70	MM
PPC1 Radius 2 Raw Large Radius	203.2	N/A	168.8	N/A	N/A	12.70	MM
PPC1 Radius 3 Raw Small Radius	88.90	N/A	136.3	N/A	N/A	12.70	MM
PPC1 Radius 3 Raw Large Radius	203.2	N/A	244.0	N/A	N/A	12.70	MM
PPC1 Radius 4 Raw Small Radius	88.90	N/A	63.71	N/A	N/A	12.70	MM
PPC1 Radius 4 Raw Large Radius	203.2	N/A	178.0	N/A	N/A	12.70	MM

Enhanced DTS Cartridge Wellsite Calibration - Detector Calibration

Before: 6-Mar-2007 10:05

Gamma Ray (Jig - Bkg)	159.1	N/A	159.1	N/A	N/A	14.47	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI

Enhanced DTS Cartridge Wellsite Calibration - EDTC Accelerometer Calibration

Before: 6-Mar-2007 9:11

EDTC Z-Axis Acceleration	9.810	N/A	9.805	N/A	N/A	N/A	M/S2
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Near Detector Plateau Setting 1728 V
Far Detector Plateau Setting 2061 V
Array Detector Plateau Setting 1968 V

3-D Array Induction Tool – ZAIT–B / Equipment Identification

Primary Equipment:
Rm/SP Bottom Nose
3–D Array Induction Sonde

AHRM – A
AXIS – A
2

Auxiliary Equipment:

3–D Array Induction Tool – ZAIT–B Wellsite Calibration								
Electronics Calibration Check – Thru Cal Mag. & Phase								
Idx	Phase	Value	Thru Cal Magnitude MM/M	Nominal	Value	Thru Cal Phase DEG	Nominal	
0	Master	1.345	<div></div>	1.456	–174.6	<div></div>	0	
	Before	1.345	<div></div>		–170.3	<div></div>		
1	Master	1.336	<div></div>	1.456	–170.2	<div></div>	0	
	Before	1.342	<div></div>		–165.5	<div></div>		
2	Master	1.387	<div></div>	1.456	–177.4	<div></div>	0	
	Before	1.387	<div></div>		–170.7	<div></div>		
3	Master	3.071	<div></div>	3.352	–176.6	<div></div>	0	
	Before	3.081	<div></div>		–172.6	<div></div>		
4	Master	3.051	<div></div>	3.352	–172.3	<div></div>	0	
	Before	3.073	<div></div>		–167.8	<div></div>		
5	Master	3.167	<div></div>	3.352	–179.4	<div></div>	0	
	Before	3.175	<div></div>		–173.0	<div></div>		
6	Master	2.477	<div></div>	2.680	177.8	<div></div>	0	
	Before	2.486	<div></div>		–178.1	<div></div>		
7	Master	2.461	<div></div>	2.680	–177.9	<div></div>	0	
	Before	2.480	<div></div>		–173.3	<div></div>		
8	Master	2.559	<div></div>	2.680	175.0	<div></div>	0	
	Before	2.566	<div></div>		–178.4	<div></div>		
9	Master	1.623	<div></div>	1.956	–72.00	<div></div>	0	
	Before	1.648	<div></div>		–68.66	<div></div>		
10	Master	1.634	<div></div>	1.956	–60.73	<div></div>	0	
	Before	1.677	<div></div>		–56.78	<div></div>		
11	Master	1.796	<div></div>	1.956	–72.15	<div></div>	0	
	Before	1.826	<div></div>		–66.48	<div></div>		
12	Master	3.239	<div></div>	3.537	–174.8	<div></div>	0	
	Before	3.240	<div></div>		–170.5	<div></div>		
13	Master	3.221	<div></div>	3.537	–170.5	<div></div>	0	
	Before	3.236	<div></div>		–165.8	<div></div>		
14	Master	3.346	<div></div>	3.537	–177.6	<div></div>	0	
	Before	3.344	<div></div>		–171.0	<div></div>		
15	Master	2.606	<div></div>	3.100	–72.38	<div></div>	0	
	Before	2.648	<div></div>		–69.02	<div></div>		
			<div></div>			<div></div>		













































16	Master	2.624			3.100	-61.11		0
	Before	2.694				-57.16		
17	Master	2.884			3.100	-72.56		0
	Before	2.933				-66.88		
18	Master	0.8449			0.9359	-174.3		0
	Before	0.8455				-170.0		
19	Master	0.8402			0.9359	-170.0		0
	Before	0.8443				-165.3		
20	Master	0.8631			0.9359	-177.4		0
	Before	0.8636				-170.6		
21	Master	3.452			4.081	-72.91		0
	Before	3.512				-69.65		
22	Master	3.476			4.081	-61.64		0
	Before	3.573				-57.79		
23	Master	3.821			4.081	-73.08		0
	Before	3.890				-67.48		
24	Master	1.224			1.362	-177.2		0
	Before	1.228				-173.1		
25	Master	1.217			1.362	-172.9		0
	Before	1.226				-168.4		
26	Master	1.250			1.362	179.7		0
	Before	1.254				-173.8		
27	Master	3.452			4.081	-72.91		0
	Before	3.512				-69.64		
28	Master	3.476			4.081	-61.64		0
	Before	3.573				-57.78		
29	Master	3.821			4.081	-73.11		0
	Before	3.890				-67.50		
30	Master	1.223			1.362	-177.2		0
	Before	1.227				-173.1		
31	Master	1.216			1.362	-172.9		0
	Before	1.225				-168.4		
32	Master	1.250			1.362	179.7		0
	Before	1.253				-173.8		
33	Master	0.9808			1.220	-76.79		0
	Before	0.9989				-73.46		
34	Master	0.9876			1.220	-65.38		0
	Before	1.017				-61.41		
35	Master	1.071			1.220	-77.45		0
	Before	1.092				-71.74		
36	Master	1.447			1.635	176.7		0
	Before	1.453				-179.1		
37	Master	1.439			1.635	-179.0		0
	Before	1.451				-174.5		

38	Master	1.474		1.635	173.6		0
	Before	1.481			-179.9		
39	Master	1.178		1.464	-76.61		0
	Before	1.200			-73.28		
40	Master	1.186		1.464	-65.22		0
	Before	1.221			-61.24		
41	Master	1.286		1.464	-77.31		0
	Before	1.312			-71.58		
42	Master	2.090		2.353	177.4		0
	Before	2.099			-178.5		
43	Master	2.079		2.353	-178.3		0
	Before	2.096			-173.8		
44	Master	2.129		2.353	174.2		0
	Before	2.139			-179.1		
		60.00 %	(Minimum)	140.0 %	(Nominal)	Nom -180.0	(Maximum)
						(Minimum)	(Nominal)
							(Maximum)
Master: 29-Jan-2007 15:32				Before: 6-Mar-2007 10:03			





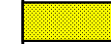



















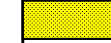





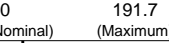











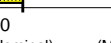


3-D Array Induction Tool – ZAIT-B Wellsite Calibration					
Electronics Calibration Check – Auxilliary					
Phase	Array Induction SPA Plus V	Value	Phase	Array Induction SPA Zero V	Value
Master		0.8436	Master		-0.0007702
Before		0.8439	Before		-0.0008081
	0.7570 (Minimum)	0.8360 (Nominal)		-0.05000 (Minimum)	0 (Nominal)
		0.9150 (Maximum)			0.05000 (Maximum)
Phase	Array Induction Temperature Plus V	Value	Phase	Array Induction Temperature Zero V	Value
Master		0.9906	Master		-0.001124
Before		0.9913	Before		-0.001140
	0.8800 (Minimum)	0.9798 (Nominal)		-0.05000 (Minimum)	0 (Nominal)
		1.076 (Maximum)			0.05000 (Maximum)
Phase	Array Induction CalSig Plus V	Value	Phase	Array Induction CalSig Zero V	Value
Master		5.015	Master		-0.01105
Before		5.017	Before		-0.01122
	4.500 (Minimum)	5.000 (Nominal)		-0.05000 (Minimum)	0 (Nominal)
		5.500 (Maximum)			0.05000 (Maximum)
Phase	Array Induction Volt Plus V	Value	Phase	Array Induction Volt Zero V	Value
Master		5.014	Master		-0.01105
Before		12.04	Before		-0.02693
	2.250 (Minimum)	2.500 (Nominal)		-0.05000 (Minimum)	0 (Nominal)
		2.750 (Maximum)			0.05000 (Maximum)
Master: 29-Jan-2007 15:32			Before: 6-Mar-2007 10:03		

3-D Array Induction Tool – ZAIT-B Wellsite Calibration					
Sonde Error Correction					
Idx	Value	R Sonde Error Correction MM/M	Value	X Sonde Error Correction MM/M	
0	20.92		5052		
	-2105 (Minimum)	351.3 (Nominal)		-33300 (Minimum)	0 (Nominal)
		2808 (Maximum)			33300 (Maximum)
1	754.2		8939		
	-5042 (Minimum)	500.9 (Nominal)		-37570 (Minimum)	0 (Nominal)
		6044 (Maximum)			37570 (Maximum)
2	-1325		-103.9		
	-2575 (Minimum)	-1399 (Nominal)		-2478 (Minimum)	0 (Nominal)
		-222.3 (Maximum)			2478 (Maximum)
3	33.96		2129		
	-2398 (Minimum)	-112.1 (Nominal)		-7332 (Minimum)	0 (Nominal)
		2174 (Maximum)			7332 (Maximum)







4	154.4	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	830.1	<div><div></div></div>	
		-1421 (Minimum)	124.3 (Nominal)	1670 (Maximum)	-6457 (Minimum)	0 (Nominal)	6457 (Maximum)
5	85.67	<div><div></div></div>	<div><div></div></div>		-295.1	<div><div></div></div>	
		-563.7 (Minimum)	64.70 (Nominal)	693.1 (Maximum)	-619.1 (Minimum)	0 (Nominal)	619.1 (Maximum)
6	63.31	<div><div></div></div>	<div><div></div></div>		700.2	<div><div></div></div>	
		-2295 (Minimum)	-206.4 (Nominal)	1882 (Maximum)	-5708 (Minimum)	0 (Nominal)	5708 (Maximum)
7	148.3	<div><div></div></div>	<div><div></div></div>		567.0	<div><div></div></div>	
		-1367 (Minimum)	138.2 (Nominal)	1644 (Maximum)	-2991 (Minimum)	0 (Nominal)	2991 (Maximum)
8	90.72	<div><div></div></div>	<div><div></div></div>		-25.51	<div><div></div></div>	
		-811.7 (Minimum)	141.5 (Nominal)	1095 (Maximum)	-372.1 (Minimum)	0 (Nominal)	372.1 (Maximum)
9	-492.9	<div><div></div></div>	<div><div></div></div>		-220.7	<div><div></div></div>	
		-3068 (Minimum)	-97.15 (Nominal)	2874 (Maximum)	-4300 (Minimum)	0 (Nominal)	4300 (Maximum)
10	18.30	<div><div></div></div>	<div><div></div></div>		-581.3	<div><div></div></div>	
		-798.0 (Minimum)	1.896 (Nominal)	801.8 (Maximum)	-12390 (Minimum)	0 (Nominal)	12390 (Maximum)
11	-119.2	<div><div></div></div>	<div><div></div></div>		994.5	<div><div></div></div>	
		-770.9 (Minimum)	23.35 (Nominal)	817.6 (Maximum)	-4594 (Minimum)	0 (Nominal)	4594 (Maximum)
12	-6.887	<div><div></div></div>	<div><div></div></div>		1033	<div><div></div></div>	
		-734.3 (Minimum)	14.37 (Nominal)	763.0 (Maximum)	-11510 (Minimum)	0 (Nominal)	11510 (Maximum)
13	-394.3	<div><div></div></div>	<div><div></div></div>		-632.1	<div><div></div></div>	
		-2770 (Minimum)	-241.5 (Nominal)	2287 (Maximum)	-2410 (Minimum)	0 (Nominal)	2410 (Maximum)
14	65.79	<div><div></div></div>	<div><div></div></div>		101.5	<div><div></div></div>	
		-570.4 (Minimum)	31.47 (Nominal)	633.4 (Maximum)	-4653 (Minimum)	0 (Nominal)	4653 (Maximum)
15	52.97	<div><div></div></div>	<div><div></div></div>		-554.7	<div><div></div></div>	
		-2241 (Minimum)	-108.3 (Nominal)	2024 (Maximum)	-5251 (Minimum)	0 (Nominal)	5251 (Maximum)
16	87.06	<div><div></div></div>	<div><div></div></div>		-705.2	<div><div></div></div>	
		-1029 (Minimum)	43.50 (Nominal)	1116 (Maximum)	-6660 (Minimum)	0 (Nominal)	6660 (Maximum)
17	-85.69	<div><div></div></div>	<div><div></div></div>		221.6	<div><div></div></div>	
		-471.1 (Minimum)	-41.64 (Nominal)	387.8 (Maximum)	-287.3 (Minimum)	0 (Nominal)	287.3 (Maximum)
18	-264.4	<div><div></div></div>	<div><div></div></div>		-380.3	<div><div></div></div>	
		-3236 (Minimum)	-34.30 (Nominal)	3167 (Maximum)	-1971 (Minimum)	0 (Nominal)	1971 (Maximum)
19	2.997	<div><div></div></div>	<div><div></div></div>		-278.9	<div><div></div></div>	
		-508.2 (Minimum)	-31.06 (Nominal)	446.1 (Maximum)	-8843 (Minimum)	0 (Nominal)	8843 (Maximum)
20	-67.21	<div><div></div></div>	<div><div></div></div>		485.0	<div><div></div></div>	
		-990.0 (Minimum)	78.40 (Nominal)	1147 (Maximum)	-2886 (Minimum)	0 (Nominal)	2886 (Maximum)
21	-2.146	<div><div></div></div>	<div><div></div></div>		513.5	<div><div></div></div>	
		-332.1 (Minimum)	27.84 (Nominal)	387.8 (Maximum)	-7605 (Minimum)	0 (Nominal)	7605 (Maximum)
22	-171.0	<div><div></div></div>	<div><div></div></div>		-557.7	<div><div></div></div>	
		-1710 (Minimum)	-171.8 (Nominal)	1367 (Maximum)	-1006 (Minimum)	0 (Nominal)	1006 (Maximum)
23	2.315	<div><div></div></div>	<div><div></div></div>		48.64	<div><div></div></div>	
		-700.5 (Minimum)	-7.184 (Nominal)	686.2 (Maximum)	-2778 (Minimum)	0 (Nominal)	2778 (Maximum)
24	43.68	<div><div></div></div>	<div><div></div></div>		-300.7	<div><div></div></div>	
		-2238 (Minimum)	-131.8 (Nominal)	1975 (Maximum)	-4019 (Minimum)	0 (Nominal)	4019 (Maximum)
25	57.55	<div><div></div></div>	<div><div></div></div>		-369.9	<div><div></div></div>	
		-888.1 (Minimum)	60.98 (Nominal)	1010 (Maximum)	-3802 (Minimum)	0 (Nominal)	3802 (Maximum)
		<div><div></div></div>	<div><div></div></div>			<div><div></div></div>	




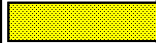




























































26	-78.64			74.67		
	-568.8 (Minimum)	-98.79 (Nominal)	371.2 (Maximum)	-150.9 (Minimum)	0 (Nominal)	150.9 (Maximum)
27	-324.3			722.8		
	-2660 (Minimum)	-247.8 (Nominal)	2164 (Maximum)	-1619 (Minimum)	0 (Nominal)	1619 (Maximum)
28	6.777			-93.67		
	-311.9 (Minimum)	19.89 (Nominal)	351.7 (Maximum)	-4748 (Minimum)	0 (Nominal)	4748 (Maximum)
29	-20.82			251.6		
	-238.9 (Minimum)	-0.7571 (Nominal)	237.4 (Maximum)	-1927 (Minimum)	0 (Nominal)	1927 (Maximum)
30	11.65			-837.1		
	-263.8 (Minimum)	-8.173 (Nominal)	247.5 (Maximum)	-3768 (Minimum)	0 (Nominal)	3768 (Maximum)
31	-333.3			829.5		
	-1851 (Minimum)	-192.8 (Nominal)	1465 (Maximum)	-1400 (Minimum)	0 (Nominal)	1400 (Maximum)
32	48.80			442.1		
	-186.8 (Minimum)	22.62 (Nominal)	232.0 (Maximum)	-1526 (Minimum)	0 (Nominal)	1526 (Maximum)
33	5.421			-174.6		
	-1101 (Minimum)	55.12 (Nominal)	1211 (Maximum)	-3024 (Minimum)	0 (Nominal)	3024 (Maximum)
34	-1.054			-100.0		
	-186.5 (Minimum)	-4.793 (Nominal)	176.9 (Maximum)	-2838 (Minimum)	0 (Nominal)	2838 (Maximum)
35	124.1			-78.95		
	-462.5 (Minimum)	63.86 (Nominal)	590.2 (Maximum)	-107.3 (Minimum)	0 (Nominal)	107.3 (Maximum)
36	-319.1			421.2		
	-1876 (Minimum)	-385.5 (Nominal)	1105 (Maximum)	-902.5 (Minimum)	0 (Nominal)	902.5 (Maximum)
37	6.994			-48.20		
	-239.6 (Minimum)	19.09 (Nominal)	277.8 (Maximum)	-4148 (Minimum)	0 (Nominal)	4148 (Maximum)
38	0.5654			122.2		
	-95.40 (Minimum)	8.103 (Nominal)	111.7 (Maximum)	-1441 (Minimum)	0 (Nominal)	1441 (Maximum)
39	1.085			-417.3		
	-232.3 (Minimum)	-11.60 (Nominal)	209.1 (Maximum)	-3221 (Minimum)	0 (Nominal)	3221 (Maximum)
40	-323.3			470.6		
	-840.1 (Minimum)	-332.1 (Nominal)	175.8 (Maximum)	-790.7 (Minimum)	0 (Nominal)	790.7 (Maximum)
41	15.87			227.7		
	-30.50 (Minimum)	11.77 (Nominal)	54.00 (Maximum)	-881.0 (Minimum)	0 (Nominal)	881.0 (Maximum)
42	-0.8276			-78.56		
	-1086 (Minimum)	50.67 (Nominal)	1188 (Maximum)	-1840 (Minimum)	0 (Nominal)	1840 (Maximum)
43	0.7432			-45.15		
	-199.6 (Minimum)	-7.273 (Nominal)	185.1 (Maximum)	-1624 (Minimum)	0 (Nominal)	1624 (Maximum)
44	47.85			-9.689		
	-1.100 (Minimum)	46.99 (Nominal)	95.10 (Maximum)	-91.40 (Minimum)	0 (Nominal)	91.40 (Maximum)
45	-15.48			2082		
	-173.4 (Minimum)	2.034 (Nominal)	177.5 (Maximum)	-2138 (Minimum)	0 (Nominal)	2138 (Maximum)
46	-9.021			368.4		
	-374.2 (Minimum)	-10.87 (Nominal)	352.5 (Maximum)	-2357 (Minimum)	0 (Nominal)	2357 (Maximum)
47	-31.66			780.9		
	-183.8 (Minimum)	-15.64 (Nominal)	152.5 (Maximum)	-986.0 (Minimum)	0 (Nominal)	986.0 (Maximum)

	11.94				-416.4		
	-261.9 (Minimum)	2.156 (Nominal)	266.2 (Maximum)		-2252 (Minimum)	0 (Nominal)	2252 (Maximum)
49	-17.19				1985		
	-178.2 (Minimum)	-0.6614 (Nominal)	176.9 (Maximum)		-2148 (Minimum)	0 (Nominal)	2148 (Maximum)
50	18.09				139.9		
	-65.70 (Minimum)	8.816 (Nominal)	83.30 (Maximum)		-626.5 (Minimum)	0 (Nominal)	626.5 (Maximum)
51	5.572				784.0		
	-166.5 (Minimum)	2.130 (Nominal)	170.8 (Maximum)		-1981 (Minimum)	0 (Nominal)	1981 (Maximum)
52	8.875				-98.90		
	-52.80 (Minimum)	3.754 (Nominal)	60.30 (Maximum)		-1243 (Minimum)	0 (Nominal)	1243 (Maximum)
53	59.44				-19.65		
	-235.6 (Minimum)	32.53 (Nominal)	300.6 (Maximum)		-41.10 (Minimum)	0 (Nominal)	41.10 (Maximum)
54	-2.308				1017		
	-95.30 (Minimum)	-9.750 (Nominal)	75.80 (Maximum)		-1088 (Minimum)	0 (Nominal)	1088 (Maximum)
55	-1.336				188.6		
	-134.6 (Minimum)	-5.565 (Nominal)	123.5 (Maximum)		-1366 (Minimum)	0 (Nominal)	1366 (Maximum)
56	-1.396				388.1		
	-27.40 (Minimum)	-6.454 (Nominal)	14.50 (Maximum)		-540.6 (Minimum)	0 (Nominal)	540.6 (Maximum)
57	0.9340				-209.3		
	-137.9 (Minimum)	-0.5576 (Nominal)	136.8 (Maximum)		-1274 (Minimum)	0 (Nominal)	1274 (Maximum)
58	1.078				968.0		
	-78.10 (Minimum)	-9.827 (Nominal)	58.50 (Maximum)		-1071 (Minimum)	0 (Nominal)	1071 (Maximum)
59	6.561				72.00		
	-18.10 (Minimum)	5.923 (Nominal)	29.90 (Maximum)		-340.7 (Minimum)	0 (Nominal)	340.7 (Maximum)
60	4.802				391.0		
	-65.40 (Minimum)	0.3248 (Nominal)	66.00 (Maximum)		-1250 (Minimum)	0 (Nominal)	1250 (Maximum)
61	5.034				-48.64		
	-32.10 (Minimum)	3.359 (Nominal)	38.80 (Maximum)		-691.8 (Minimum)	0 (Nominal)	691.8 (Maximum)
62	26.23				2.136		
	-9.800 (Minimum)	27.57 (Nominal)	64.90 (Maximum)		-32.90 (Minimum)	0 (Nominal)	32.90 (Maximum)
63	-2.579				635.4		
	-56.30 (Minimum)	0.6343 (Nominal)	57.60 (Maximum)		-770.3 (Minimum)	0 (Nominal)	770.3 (Maximum)
64	29.50				-951.4		
	-86.20 (Minimum)	-0.04571 (Nominal)	86.10 (Maximum)		-1478 (Minimum)	0 (Nominal)	1478 (Maximum)
65	-15.76				180.9		
	-51.90 (Minimum)	-4.624 (Nominal)	42.60 (Maximum)		-621.1 (Minimum)	0 (Nominal)	621.1 (Maximum)
66	-19.63				918.5		
	-171.8 (Minimum)	-2.056 (Nominal)	167.7 (Maximum)		-1581 (Minimum)	0 (Nominal)	1581 (Maximum)
67	-0.2565				611.6		
	-45.00 (Minimum)	0.1900 (Nominal)	45.40 (Maximum)		-751.4 (Minimum)	0 (Nominal)	751.4 (Maximum)
68	3.726				30.84		
	-42.10 (Minimum)	3.956 (Nominal)	50.00 (Maximum)		-476.3 (Minimum)	0 (Nominal)	476.3 (Maximum)
69	-6.196				286.1		
	-27.40 (Minimum)	0.6414 (Nominal)	28.70 (Maximum)		-517.0 (Minimum)	0 (Nominal)	517.0 (Maximum)

70	-0.5899						
		-42.00 (Minimum)	3.171 (Nominal)	48.30 (Maximum)	-935.7 (Minimum)	0 (Nominal)	935.7 (Maximum)
71	22.25				18.34		
		-87.80 (Minimum)	11.76 (Nominal)	111.3 (Maximum)	-62.10 (Minimum)	0 (Nominal)	62.10 (Maximum)
72	0.3745				262.4		
		-24.60 (Minimum)	-2.297 (Nominal)	20.00 (Maximum)	-375.5 (Minimum)	0 (Nominal)	375.5 (Maximum)
73	1.286				-472.1		
		-57.60 (Minimum)	2.100 (Nominal)	61.80 (Maximum)	-1185 (Minimum)	0 (Nominal)	1185 (Maximum)
74	-1.035				86.88		
		-12.70 (Minimum)	-1.704 (Nominal)	9.300 (Maximum)	-356.7 (Minimum)	0 (Nominal)	356.7 (Maximum)
75	-1.570				457.0		
		-78.00 (Minimum)	-3.031 (Nominal)	71.90 (Maximum)	-1247 (Minimum)	0 (Nominal)	1247 (Maximum)
76	2.299				250.6		
		-16.10 (Minimum)	-1.311 (Nominal)	13.50 (Maximum)	-374.3 (Minimum)	0 (Nominal)	374.3 (Maximum)
77	1.771				17.22		
		-12.80 (Minimum)	2.693 (Nominal)	18.20 (Maximum)	-321.8 (Minimum)	0 (Nominal)	321.8 (Maximum)
78	0.7233				139.4		
		-11.50 (Minimum)	1.215 (Nominal)	13.90 (Maximum)	-333.1 (Minimum)	0 (Nominal)	333.1 (Maximum)
79	0.7604				-23.30		
		-13.40 (Minimum)	3.431 (Nominal)	20.30 (Maximum)	-581.6 (Minimum)	0 (Nominal)	581.6 (Maximum)
80	10.68				16.27		
		-16.30 (Minimum)	11.00 (Nominal)	38.30 (Maximum)	-39.20 (Minimum)	0 (Nominal)	39.20 (Maximum)
81	-15.45				315.8		
		-67.80 (Minimum)	-6.064 (Nominal)	55.70 (Maximum)	-330.3 (Minimum)	0 (Nominal)	330.3 (Maximum)
82	-8.384				586.9		
		-75.70 (Minimum)	0.09571 (Nominal)	75.90 (Maximum)	-805.0 (Minimum)	0 (Nominal)	805.0 (Maximum)
83	-11.00				112.2		
		-42.90 (Minimum)	-3.401 (Nominal)	36.10 (Maximum)	-191.7 (Minimum)	0 (Nominal)	191.7 (Maximum)
84	13.94				-578.9		
		-56.30 (Minimum)	0.3271 (Nominal)	57.00 (Maximum)	-782.3 (Minimum)	0 (Nominal)	782.3 (Maximum)
85	-15.01				295.3		
		-56.50 (Minimum)	-5.537 (Nominal)	45.40 (Maximum)	-319.1 (Minimum)	0 (Nominal)	319.1 (Maximum)
86	4.540				-83.63		
		-16.30 (Minimum)	0.7314 (Nominal)	17.80 (Maximum)	-149.5 (Minimum)	0 (Nominal)	149.5 (Maximum)
87	-0.8786				7.633		
		-7.600 (Minimum)	-0.1829 (Nominal)	7.200 (Maximum)	-242.5 (Minimum)	0 (Nominal)	242.5 (Maximum)
88	2.126				-185.6		
		-10.50 (Minimum)	0.3700 (Nominal)	11.30 (Maximum)	-214.9 (Minimum)	0 (Nominal)	214.9 (Maximum)
89	3.597				20.93		
		-26.20 (Minimum)	2.383 (Nominal)	30.90 (Maximum)	-116.1 (Minimum)	0 (Nominal)	116.1 (Maximum)
90	-12.18				84.33		
		-30.60 (Minimum)	-9.587 (Nominal)	11.50 (Maximum)	-105.7 (Minimum)	0 (Nominal)	105.7 (Maximum)
91	-2.645				298.5		
		-38.50 (Minimum)	-1.329 (Nominal)	35.80 (Maximum)	-471.2 (Minimum)	0 (Nominal)	471.2 (Maximum)
							















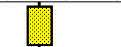

	-1.279			55.94		
	-17.00 (Minimum)	-2.254 (Nominal)	12.50 (Maximum)	-118.0 (Minimum)	0 (Nominal)	118.0 (Maximum)
93	2.192			-297.9		
	-27.10 (Minimum)	1.459 (Nominal)	30.00 (Maximum)	-441.4 (Minimum)	0 (Nominal)	441.4 (Maximum)
94	-10.83			74.61		
	-28.40 (Minimum)	-9.228 (Nominal)	10.00 (Maximum)	-100.3 (Minimum)	0 (Nominal)	100.3 (Maximum)
95	1.041			-40.80		
	-11.80 (Minimum)	1.184 (Nominal)	14.20 (Maximum)	-100.9 (Minimum)	0 (Nominal)	100.9 (Maximum)
96	0.9281			3.809		
	-4.600 (Minimum)	0.5421 (Nominal)	5.700 (Maximum)	-141.1 (Minimum)	0 (Nominal)	141.1 (Maximum)
97	0.2935			-91.97		
	-6.400 (Minimum)	0.8419 (Nominal)	8.100 (Maximum)	-179.1 (Minimum)	0 (Nominal)	179.1 (Maximum)
98	3.097			14.05		
	-29.10 (Minimum)	3.875 (Nominal)	36.80 (Maximum)	-42.70 (Minimum)	0 (Nominal)	42.70 (Maximum)
99	-41.39			152.7		
	-208.6 (Minimum)	-22.42 (Nominal)	163.7 (Maximum)	-228.8 (Minimum)	0 (Nominal)	228.8 (Maximum)
100	15.87			-416.8		
	-110.1 (Minimum)	6.030 (Nominal)	122.1 (Maximum)	-941.8 (Minimum)	0 (Nominal)	941.8 (Maximum)
101	-6.421			-42.07		
	-40.50 (Minimum)	-1.784 (Nominal)	36.90 (Maximum)	-177.8 (Minimum)	0 (Nominal)	177.8 (Maximum)
102	-11.33			450.4		
	-218.8 (Minimum)	-8.666 (Nominal)	201.5 (Maximum)	-932.5 (Minimum)	0 (Nominal)	932.5 (Maximum)
103	-45.67			156.3		
	-201.5 (Minimum)	-21.74 (Nominal)	158.0 (Maximum)	-189.7 (Minimum)	0 (Nominal)	189.7 (Maximum)
104	-0.1936			-17.73		
	-20.20 (Minimum)	0.1186 (Nominal)	20.50 (Maximum)	-173.1 (Minimum)	0 (Nominal)	173.1 (Maximum)
105	1.150			-3.397		
	-13.60 (Minimum)	1.554 (Nominal)	16.70 (Maximum)	-123.5 (Minimum)	0 (Nominal)	123.5 (Maximum)
106	-1.690			24.17		
	-6.300 (Minimum)	0.1929 (Nominal)	6.600 (Maximum)	-93.30 (Minimum)	0 (Nominal)	93.30 (Maximum)
107	-2.731			55.88		
	-19.70 (Minimum)	-1.369 (Nominal)	17.00 (Maximum)	-145.3 (Minimum)	0 (Nominal)	145.3 (Maximum)
108	-40.59			126.8		
	-61.80 (Minimum)	-39.44 (Nominal)	-17.10 (Maximum)	-174.6 (Minimum)	0 (Nominal)	174.6 (Maximum)
109	3.576			-220.5		
	-28.80 (Minimum)	2.697 (Nominal)	34.20 (Maximum)	-490.4 (Minimum)	0 (Nominal)	490.4 (Maximum)
110	-0.6722			-21.33		
	-11.70 (Minimum)	-1.231 (Nominal)	9.200 (Maximum)	-104.4 (Minimum)	0 (Nominal)	104.4 (Maximum)
111	-3.843			234.5		
	-57.50 (Minimum)	-3.492 (Nominal)	50.50 (Maximum)	-491.5 (Minimum)	0 (Nominal)	491.5 (Maximum)
112	-42.31			128.4		
	-67.40 (Minimum)	-39.27 (Nominal)	-11.10 (Maximum)	-150.1 (Minimum)	0 (Nominal)	150.1 (Maximum)
113	-0.1958			-4.797		
	-10.40 (Minimum)	0.8598 (Nominal)	12.10 (Maximum)	-103.3 (Minimum)	0 (Nominal)	103.3 (Maximum)













































114	1.999				-1.614			
		-3.100 (Minimum)	2.525 (Nominal)	8.100 (Maximum)		-66.30 (Minimum)	0 (Nominal)	66.30 (Maximum)
115	-0.4481				14.76			
		-3.200 (Minimum)	0.4010 (Nominal)	4.000 (Maximum)		-66.00 (Minimum)	0 (Nominal)	66.00 (Maximum)
116	2.266				8.951			
		-27.70 (Minimum)	1.505 (Nominal)	30.70 (Maximum)		-57.80 (Minimum)	0 (Nominal)	57.80 (Maximum)
Master: 29-Jan-2007 15:32								

3-D Array Induction Tool – ZAIT–B Master Calibration								
Electronics Calibration Check – Thru Cal Mag. & Phase								
Idx	Phase	Value	Thru Cal Magnitude	MM/M	Nominal	Value	Thru Cal Phase DEG	Nominal
0	Master	1.345			1.456	-174.6		0
1	Master	1.336			1.456	-170.2		0
2	Master	1.387			1.456	-177.4		0
3	Master	3.071			3.352	-176.6		0
4	Master	3.051			3.352	-172.3		0
5	Master	3.167			3.352	-179.4		0
6	Master	2.477			2.680	177.8		0
7	Master	2.461			2.680	-177.9		0
8	Master	2.559			2.680	175.0		0
9	Master	1.623			1.956	-72.00		0
10	Master	1.634			1.956	-60.73		0
11	Master	1.796			1.956	-72.15		0
12	Master	3.239			3.537	-174.8		0
13	Master	3.221			3.537	-170.5		0
14	Master	3.346			3.537	-177.6		0
15	Master	2.606			3.100	-72.38		0
16	Master	2.624			3.100	-61.11		0
17	Master	2.884			3.100	-72.56		0
18	Master	0.8449			0.9359	-174.3		0
19	Master	0.8402			0.9359	-170.0		0
20	Master	0.8631			0.9359	-177.4		0
21	Master	3.452			4.081	-72.91		0
22	Master	3.476			4.081	-61.64		0
23	Master	3.821			4.081	-73.08		0
24	Master	1.224			1.362	-177.2		0
25	Master	1.217			1.362	-172.9		0
26	Master	1.250			1.362	179.7		0
27	Master	3.452			4.081	-72.91		0
28	Master	3.476			4.081	-61.64		0
29	Master	3.821			4.081	-73.11		0
30	Master	1.223			1.362	-177.2		0
31	Master	1.216			1.362	-172.9		0
32	Master	1.250			1.362	179.7		0
33	Master	0.9808			1.220	-76.79		0
34	Master	0.9876			1.220	-65.38		0






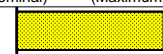



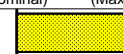



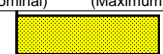





















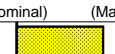





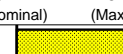


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36	Master	1.447		1.635	176.7		0
37	Master	1.439		1.635	-179.0		0
38	Master	1.474		1.635	173.6		0
39	Master	1.178		1.464	-76.61		0
40	Master	1.186		1.464	-65.22		0
41	Master	1.286		1.464	-77.31		0
42	Master	2.090		2.353	177.4		0
43	Master	2.079		2.353	-178.3		0
44	Master	2.129		2.353	174.2		0
		60.00 % (Minimum)	(Nominal)	140.0 % (Maximum)	Nom -180.0 (Minimum)	(Nominal)	Nom + 180.0 (Maximum)
Master: 29-Jan-2007 15:32							






















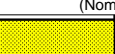

















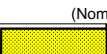




3-D Array Induction Tool – ZAIT-B Master Calibration									
Electronics Calibration Check – Auxilliary									
Phase	Array Induction SPA Plus V			Value	Phase	Array Induction SPA Zero V			Value
Master				0.8436	Master				-0.0007702
	0.7570 (Minimum)	0.8360 (Nominal)	0.9150 (Maximum)			-0.05000 (Minimum)	0 (Nominal)	0.05000 (Maximum)	
Phase	Array Induction Temperature Plus V			Value	Phase	Array Induction Temperature Zero V			Value
Master				0.9906	Master				-0.001124
	0.8800 (Minimum)	0.9798 (Nominal)	1.076 (Maximum)			-0.05000 (Minimum)	0 (Nominal)	0.05000 (Maximum)	
Phase	Array Induction CalSig Plus V			Value	Phase	Array Induction CalSig Zero V			Value
Master				5.015	Master				-0.01105
	4.500 (Minimum)	5.000 (Nominal)	5.500 (Maximum)			-0.05000 (Minimum)	0 (Nominal)	0.05000 (Maximum)	
Phase	Array Induction Volt Plus V			Value	Phase	Array Induction Volt Zero V			Value
Master				5.014	Master				-0.01105
	2.250 (Minimum)	2.500 (Nominal)	2.750 (Maximum)			-0.05000 (Minimum)	0 (Nominal)	0.05000 (Maximum)	
Master: 29-Jan-2007 15:32									








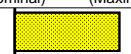


































3-D Array Induction Tool – ZAIT-B Master Calibration								
Sonde Error Correction								
Idx	Value	R Sonde Error Correction MM/M			Value	X Sonde Error Correction MM/M		
0	20.92				5052			
		-2105 (Minimum)	351.3 (Nominal)	2808 (Maximum)		-33300 (Minimum)	0 (Nominal)	33300 (Maximum)
1	754.2				8939			
		-5042 (Minimum)	500.9 (Nominal)	6044 (Maximum)		-37570 (Minimum)	0 (Nominal)	37570 (Maximum)
2	-1325				-103.9			
		-2575 (Minimum)	-1399 (Nominal)	-222.3 (Maximum)		-2478 (Minimum)	0 (Nominal)	2478 (Maximum)
3	33.96				2129			
		-2398 (Minimum)	-112.1 (Nominal)	2174 (Maximum)		-7332 (Minimum)	0 (Nominal)	7332 (Maximum)
4	154.4				830.1			
		-1421 (Minimum)	124.3 (Nominal)	1670 (Maximum)		-6457 (Minimum)	0 (Nominal)	6457 (Maximum)
5	85.67				-295.1			
		-563.7 (Minimum)	64.70 (Nominal)	693.1 (Maximum)		-619.1 (Minimum)	0 (Nominal)	619.1 (Maximum)
6	63.31				700.2			
		-2295 (Minimum)	-206.4 (Nominal)	1882 (Maximum)		-5708 (Minimum)	0 (Nominal)	5708 (Maximum)
7	148.3				567.0			
		-1367 (Minimum)	138.2 (Nominal)	1644 (Maximum)		-2991 (Minimum)	0 (Nominal)	2991 (Maximum)

8	90.72			-25.51				
		-811.7 (Minimum)	141.5 (Nominal)	1095 (Maximum)		-372.1 (Minimum)	0 (Nominal)	372.1 (Maximum)
9	-492.9			-220.7				
		-3068 (Minimum)	-97.15 (Nominal)	2874 (Maximum)		-4300 (Minimum)	0 (Nominal)	4300 (Maximum)
10	18.30			-581.3				
		-798.0 (Minimum)	1.896 (Nominal)	801.8 (Maximum)		-12390 (Minimum)	0 (Nominal)	12390 (Maximum)
11	-119.2			994.5				
		-770.9 (Minimum)	23.35 (Nominal)	817.6 (Maximum)		-4594 (Minimum)	0 (Nominal)	4594 (Maximum)
12	-6.887			1033				
		-734.3 (Minimum)	14.37 (Nominal)	763.0 (Maximum)		-11510 (Minimum)	0 (Nominal)	11510 (Maximum)
13	-394.3			-632.1				
		-2770 (Minimum)	-241.5 (Nominal)	2287 (Maximum)		-2410 (Minimum)	0 (Nominal)	2410 (Maximum)
14	65.79			101.5				
		-570.4 (Minimum)	31.47 (Nominal)	633.4 (Maximum)		-4653 (Minimum)	0 (Nominal)	4653 (Maximum)
15	52.97			-554.7				
		-2241 (Minimum)	-108.3 (Nominal)	2024 (Maximum)		-5251 (Minimum)	0 (Nominal)	5251 (Maximum)
16	87.06			-705.2				
		-1029 (Minimum)	43.50 (Nominal)	1116 (Maximum)		-6660 (Minimum)	0 (Nominal)	6660 (Maximum)
17	-85.69			221.6				
		-471.1 (Minimum)	-41.64 (Nominal)	387.8 (Maximum)		-287.3 (Minimum)	0 (Nominal)	287.3 (Maximum)
18	-264.4			-380.3				
		-3236 (Minimum)	-34.30 (Nominal)	3167 (Maximum)		-1971 (Minimum)	0 (Nominal)	1971 (Maximum)
19	2.997			-278.9				
		-508.2 (Minimum)	-31.06 (Nominal)	446.1 (Maximum)		-8843 (Minimum)	0 (Nominal)	8843 (Maximum)
20	-67.21			485.0				
		-990.0 (Minimum)	78.40 (Nominal)	1147 (Maximum)		-2886 (Minimum)	0 (Nominal)	2886 (Maximum)
21	-2.146			513.5				
		-332.1 (Minimum)	27.84 (Nominal)	387.8 (Maximum)		-7605 (Minimum)	0 (Nominal)	7605 (Maximum)
22	-171.0			-557.7				
		-1710 (Minimum)	-171.8 (Nominal)	1367 (Maximum)		-1006 (Minimum)	0 (Nominal)	1006 (Maximum)
23	2.315			48.64				
		-700.5 (Minimum)	-7.184 (Nominal)	686.2 (Maximum)		-2778 (Minimum)	0 (Nominal)	2778 (Maximum)
24	43.68			-300.7				
		-2238 (Minimum)	-131.8 (Nominal)	1975 (Maximum)		-4019 (Minimum)	0 (Nominal)	4019 (Maximum)
25	57.55			-369.9				
		-888.1 (Minimum)	60.98 (Nominal)	1010 (Maximum)		-3802 (Minimum)	0 (Nominal)	3802 (Maximum)
26	-78.64			74.67				
		-568.8 (Minimum)	-98.79 (Nominal)	371.2 (Maximum)		-150.9 (Minimum)	0 (Nominal)	150.9 (Maximum)
27	-324.3			722.8				
		-2660 (Minimum)	-247.8 (Nominal)	2164 (Maximum)		-1619 (Minimum)	0 (Nominal)	1619 (Maximum)
28	6.777			-93.67				
		-311.9 (Minimum)	19.89 (Nominal)	351.7 (Maximum)		-4748 (Minimum)	0 (Nominal)	4748 (Maximum)
29	-20.82			251.6				
		-238.9 (Minimum)	-0.7571 (Nominal)	237.4 (Maximum)		-1927 (Minimum)	0 (Nominal)	1927 (Maximum)

30	11.65			-837.1	
		-263.8 (Minimum)	-8.173 (Nominal) 247.5 (Maximum)		-3768 (Minimum) 0 (Nominal) 3768 (Maximum)
31	-333.3			829.5	
		-1851 (Minimum)	-192.8 (Nominal) 1465 (Maximum)		-1400 (Minimum) 0 (Nominal) 1400 (Maximum)
32	48.80			442.1	
		-186.8 (Minimum)	22.62 (Nominal) 232.0 (Maximum)		-1526 (Minimum) 0 (Nominal) 1526 (Maximum)
33	5.421			-174.6	
		-1101 (Minimum)	55.12 (Nominal) 1211 (Maximum)		-3024 (Minimum) 0 (Nominal) 3024 (Maximum)
34	-1.054			-100.0	
		-186.5 (Minimum)	-4.793 (Nominal) 176.9 (Maximum)		-2838 (Minimum) 0 (Nominal) 2838 (Maximum)
35	124.1			-78.95	
		-462.5 (Minimum)	63.86 (Nominal) 590.2 (Maximum)		-107.3 (Minimum) 0 (Nominal) 107.3 (Maximum)
36	-319.1			421.2	
		-1876 (Minimum)	-385.5 (Nominal) 1105 (Maximum)		-902.5 (Minimum) 0 (Nominal) 902.5 (Maximum)
37	6.994			-48.20	
		-239.6 (Minimum)	19.09 (Nominal) 277.8 (Maximum)		-4148 (Minimum) 0 (Nominal) 4148 (Maximum)
38	0.5654			122.2	
		-95.40 (Minimum)	8.103 (Nominal) 111.7 (Maximum)		-1441 (Minimum) 0 (Nominal) 1441 (Maximum)
39	1.085			-417.3	
		-232.3 (Minimum)	-11.60 (Nominal) 209.1 (Maximum)		-3221 (Minimum) 0 (Nominal) 3221 (Maximum)
40	-323.3			470.6	
		-840.1 (Minimum)	-332.1 (Nominal) 175.8 (Maximum)		-790.7 (Minimum) 0 (Nominal) 790.7 (Maximum)
41	15.87			227.7	
		-30.50 (Minimum)	11.77 (Nominal) 54.00 (Maximum)		-881.0 (Minimum) 0 (Nominal) 881.0 (Maximum)
42	-0.8276			-78.56	
		-1086 (Minimum)	50.67 (Nominal) 1188 (Maximum)		-1840 (Minimum) 0 (Nominal) 1840 (Maximum)
43	0.7432			-45.15	
		-199.6 (Minimum)	-7.273 (Nominal) 185.1 (Maximum)		-1624 (Minimum) 0 (Nominal) 1624 (Maximum)
44	47.85			-9.689	
		-1.100 (Minimum)	46.99 (Nominal) 95.10 (Maximum)		-91.40 (Minimum) 0 (Nominal) 91.40 (Maximum)
45	-15.48			2082	
		-173.4 (Minimum)	2.034 (Nominal) 177.5 (Maximum)		-2138 (Minimum) 0 (Nominal) 2138 (Maximum)
46	-9.021			368.4	
		-374.2 (Minimum)	-10.87 (Nominal) 352.5 (Maximum)		-2357 (Minimum) 0 (Nominal) 2357 (Maximum)
47	-31.66			780.9	
		-183.8 (Minimum)	-15.64 (Nominal) 152.5 (Maximum)		-986.0 (Minimum) 0 (Nominal) 986.0 (Maximum)
48	11.94			-416.4	
		-261.9 (Minimum)	2.156 (Nominal) 266.2 (Maximum)		-2252 (Minimum) 0 (Nominal) 2252 (Maximum)
49	-17.19			1985	
		-178.2 (Minimum)	-0.6614 (Nominal) 176.9 (Maximum)		-2148 (Minimum) 0 (Nominal) 2148 (Maximum)
50	18.09			139.9	
		-65.70 (Minimum)	8.816 (Nominal) 83.30 (Maximum)		-626.5 (Minimum) 0 (Nominal) 626.5 (Maximum)
51	5.572			784.0	
		-166.5 (Minimum)	2.130 (Nominal) 170.8 (Maximum)		-1981 (Minimum) 0 (Nominal) 1981 (Maximum)

52	8.875			-98.90			
		-52.80 (Minimum)	3.754 (Nominal)	60.30 (Maximum)	-1243 (Minimum)	0 (Nominal)	1243 (Maximum)
53	59.44			-19.65			
		-235.6 (Minimum)	32.53 (Nominal)	300.6 (Maximum)	-41.10 (Minimum)	0 (Nominal)	41.10 (Maximum)
54	-2.308			1017			
		-95.30 (Minimum)	-9.750 (Nominal)	75.80 (Maximum)	-1088 (Minimum)	0 (Nominal)	1088 (Maximum)
55	-1.336			188.6			
		-134.6 (Minimum)	-5.565 (Nominal)	123.5 (Maximum)	-1366 (Minimum)	0 (Nominal)	1366 (Maximum)
56	-1.396			388.1			
		-27.40 (Minimum)	-6.454 (Nominal)	14.50 (Maximum)	-540.6 (Minimum)	0 (Nominal)	540.6 (Maximum)
57	0.9340			-209.3			
		-137.9 (Minimum)	-0.5576 (Nominal)	136.8 (Maximum)	-1274 (Minimum)	0 (Nominal)	1274 (Maximum)
58	1.078			968.0			
		-78.10 (Minimum)	-9.827 (Nominal)	58.50 (Maximum)	-1071 (Minimum)	0 (Nominal)	1071 (Maximum)
59	6.561			72.00			
		-18.10 (Minimum)	5.923 (Nominal)	29.90 (Maximum)	-340.7 (Minimum)	0 (Nominal)	340.7 (Maximum)
60	4.802			391.0			
		-65.40 (Minimum)	0.3248 (Nominal)	66.00 (Maximum)	-1250 (Minimum)	0 (Nominal)	1250 (Maximum)
61	5.034			-48.64			
		-32.10 (Minimum)	3.359 (Nominal)	38.80 (Maximum)	-691.8 (Minimum)	0 (Nominal)	691.8 (Maximum)
62	26.23			2.136			
		-9.800 (Minimum)	27.57 (Nominal)	64.90 (Maximum)	-32.90 (Minimum)	0 (Nominal)	32.90 (Maximum)
63	-2.579			635.4			
		-56.30 (Minimum)	0.6343 (Nominal)	57.60 (Maximum)	-770.3 (Minimum)	0 (Nominal)	770.3 (Maximum)
64	29.50			-951.4			
		-86.20 (Minimum)	-0.04571 (Nominal)	86.10 (Maximum)	-1478 (Minimum)	0 (Nominal)	1478 (Maximum)
65	-15.76			180.9			
		-51.90 (Minimum)	-4.624 (Nominal)	42.60 (Maximum)	-621.1 (Minimum)	0 (Nominal)	621.1 (Maximum)
66	-19.63			918.5			
		-171.8 (Minimum)	-2.056 (Nominal)	167.7 (Maximum)	-1581 (Minimum)	0 (Nominal)	1581 (Maximum)
67	-0.2565			611.6			
		-45.00 (Minimum)	0.1900 (Nominal)	45.40 (Maximum)	-751.4 (Minimum)	0 (Nominal)	751.4 (Maximum)
68	3.726			30.84			
		-42.10 (Minimum)	3.956 (Nominal)	50.00 (Maximum)	-476.3 (Minimum)	0 (Nominal)	476.3 (Maximum)
69	-6.196			286.1			
		-27.40 (Minimum)	0.6414 (Nominal)	28.70 (Maximum)	-517.0 (Minimum)	0 (Nominal)	517.0 (Maximum)
70	-0.5899			-46.72			
		-42.00 (Minimum)	3.171 (Nominal)	48.30 (Maximum)	-935.7 (Minimum)	0 (Nominal)	935.7 (Maximum)
71	22.25			18.34			
		-87.80 (Minimum)	11.76 (Nominal)	111.3 (Maximum)	-62.10 (Minimum)	0 (Nominal)	62.10 (Maximum)
72	0.3745			262.4			
		-24.60 (Minimum)	-2.297 (Nominal)	20.00 (Maximum)	-375.5 (Minimum)	0 (Nominal)	375.5 (Maximum)
73	1.286			-472.1			
		-57.60 (Minimum)	2.100 (Nominal)	61.80 (Maximum)	-1185 (Minimum)	0 (Nominal)	1185 (Maximum)

74	-1.035			86.88			
		-12.70 (Minimum)	-1.704 (Nominal)	9.300 (Maximum)	-356.7 (Minimum)	0 (Nominal)	356.7 (Maximum)
75	-1.570			457.0			
		-78.00 (Minimum)	-3.031 (Nominal)	71.90 (Maximum)	-1247 (Minimum)	0 (Nominal)	1247 (Maximum)
76	2.299			250.6			
		-16.10 (Minimum)	-1.311 (Nominal)	13.50 (Maximum)	-374.3 (Minimum)	0 (Nominal)	374.3 (Maximum)
77	1.771			17.22			
		-12.80 (Minimum)	2.693 (Nominal)	18.20 (Maximum)	-321.8 (Minimum)	0 (Nominal)	321.8 (Maximum)
78	0.7233			139.4			
		-11.50 (Minimum)	1.215 (Nominal)	13.90 (Maximum)	-333.1 (Minimum)	0 (Nominal)	333.1 (Maximum)
79	0.7604			-23.30			
		-13.40 (Minimum)	3.431 (Nominal)	20.30 (Maximum)	-581.6 (Minimum)	0 (Nominal)	581.6 (Maximum)
80	10.68			16.27			
		-16.30 (Minimum)	11.00 (Nominal)	38.30 (Maximum)	-39.20 (Minimum)	0 (Nominal)	39.20 (Maximum)
81	-15.45			315.8			
		-67.80 (Minimum)	-6.064 (Nominal)	55.70 (Maximum)	-330.3 (Minimum)	0 (Nominal)	330.3 (Maximum)
82	-8.384			586.9			
		-75.70 (Minimum)	0.09571 (Nominal)	75.90 (Maximum)	-805.0 (Minimum)	0 (Nominal)	805.0 (Maximum)
83	-11.00			112.2			
		-42.90 (Minimum)	-3.401 (Nominal)	36.10 (Maximum)	-191.7 (Minimum)	0 (Nominal)	191.7 (Maximum)
84	13.94			-578.9			
		-56.30 (Minimum)	0.3271 (Nominal)	57.00 (Maximum)	-782.3 (Minimum)	0 (Nominal)	782.3 (Maximum)
85	-15.01			295.3			
		-56.50 (Minimum)	-5.537 (Nominal)	45.40 (Maximum)	-319.1 (Minimum)	0 (Nominal)	319.1 (Maximum)
86	4.540			-83.63			
		-16.30 (Minimum)	0.7314 (Nominal)	17.80 (Maximum)	-149.5 (Minimum)	0 (Nominal)	149.5 (Maximum)
87	-0.8786			7.633			
		-7.600 (Minimum)	-0.1829 (Nominal)	7.200 (Maximum)	-242.5 (Minimum)	0 (Nominal)	242.5 (Maximum)
88	2.126			-185.6			
		-10.50 (Minimum)	0.3700 (Nominal)	11.30 (Maximum)	-214.9 (Minimum)	0 (Nominal)	214.9 (Maximum)
89	3.597			20.93			
		-26.20 (Minimum)	2.383 (Nominal)	30.90 (Maximum)	-116.1 (Minimum)	0 (Nominal)	116.1 (Maximum)
90	-12.18			84.33			
		-30.60 (Minimum)	-9.587 (Nominal)	11.50 (Maximum)	-105.7 (Minimum)	0 (Nominal)	105.7 (Maximum)
91	-2.645			298.5			
		-38.50 (Minimum)	-1.329 (Nominal)	35.80 (Maximum)	-471.2 (Minimum)	0 (Nominal)	471.2 (Maximum)
92	-1.279			55.94			
		-17.00 (Minimum)	-2.254 (Nominal)	12.50 (Maximum)	-118.0 (Minimum)	0 (Nominal)	118.0 (Maximum)
93	2.192			-297.9			
		-27.10 (Minimum)	1.459 (Nominal)	30.00 (Maximum)	-441.4 (Minimum)	0 (Nominal)	441.4 (Maximum)
94	-10.83			74.61			
		-28.40 (Minimum)	-9.228 (Nominal)	10.00 (Maximum)	-100.3 (Minimum)	0 (Nominal)	100.3 (Maximum)
95	1.041			-40.80			
		-11.80 (Minimum)	1.184 (Nominal)	14.20 (Maximum)	-100.9 (Minimum)	0 (Nominal)	100.9 (Maximum)

96	0.9281			3.809		
	-4.600 (Minimum)	0.5421 (Nominal)	5.700 (Maximum)	-141.1 (Minimum)	0 (Nominal)	141.1 (Maximum)
97	0.2935			-91.97		
	-6.400 (Minimum)	0.8419 (Nominal)	8.100 (Maximum)	-179.1 (Minimum)	0 (Nominal)	179.1 (Maximum)
98	3.097			14.05		
	-29.10 (Minimum)	3.875 (Nominal)	36.80 (Maximum)	-42.70 (Minimum)	0 (Nominal)	42.70 (Maximum)
99	-41.39			152.7		
	-208.6 (Minimum)	-22.42 (Nominal)	163.7 (Maximum)	-228.8 (Minimum)	0 (Nominal)	228.8 (Maximum)
100	15.87			-416.8		
	-110.1 (Minimum)	6.030 (Nominal)	122.1 (Maximum)	-941.8 (Minimum)	0 (Nominal)	941.8 (Maximum)
101	-6.421			-42.07		
	-40.50 (Minimum)	-1.784 (Nominal)	36.90 (Maximum)	-177.8 (Minimum)	0 (Nominal)	177.8 (Maximum)
102	-11.33			450.4		
	-218.8 (Minimum)	-8.666 (Nominal)	201.5 (Maximum)	-932.5 (Minimum)	0 (Nominal)	932.5 (Maximum)
103	-45.67			156.3		
	-201.5 (Minimum)	-21.74 (Nominal)	158.0 (Maximum)	-189.7 (Minimum)	0 (Nominal)	189.7 (Maximum)
104	-0.1936			-17.73		
	-20.20 (Minimum)	0.1186 (Nominal)	20.50 (Maximum)	-173.1 (Minimum)	0 (Nominal)	173.1 (Maximum)
105	1.150			-3.397		
	-13.60 (Minimum)	1.554 (Nominal)	16.70 (Maximum)	-123.5 (Minimum)	0 (Nominal)	123.5 (Maximum)
106	-1.690			24.17		
	-6.300 (Minimum)	0.1929 (Nominal)	6.600 (Maximum)	-93.30 (Minimum)	0 (Nominal)	93.30 (Maximum)
107	-2.731			55.88		
	-19.70 (Minimum)	-1.369 (Nominal)	17.00 (Maximum)	-145.3 (Minimum)	0 (Nominal)	145.3 (Maximum)
108	-40.59			126.8		
	-61.80 (Minimum)	-39.44 (Nominal)	-17.10 (Maximum)	-174.6 (Minimum)	0 (Nominal)	174.6 (Maximum)
109	3.576			-220.5		
	-28.80 (Minimum)	2.697 (Nominal)	34.20 (Maximum)	-490.4 (Minimum)	0 (Nominal)	490.4 (Maximum)
110	-0.6722			-21.33		
	-11.70 (Minimum)	-1.231 (Nominal)	9.200 (Maximum)	-104.4 (Minimum)	0 (Nominal)	104.4 (Maximum)
111	-3.843			234.5		
	-57.50 (Minimum)	-3.492 (Nominal)	50.50 (Maximum)	-491.5 (Minimum)	0 (Nominal)	491.5 (Maximum)
112	-42.31			128.4		
	-67.40 (Minimum)	-39.27 (Nominal)	-11.10 (Maximum)	-150.1 (Minimum)	0 (Nominal)	150.1 (Maximum)
113	-0.1958			-4.797		
	-10.40 (Minimum)	0.8598 (Nominal)	12.10 (Maximum)	-103.3 (Minimum)	0 (Nominal)	103.3 (Maximum)
114	1.999			-1.614		
	-3.100 (Minimum)	2.525 (Nominal)	8.100 (Maximum)	-66.30 (Minimum)	0 (Nominal)	66.30 (Maximum)
115	-0.4481			14.76		
	-3.200 (Minimum)	0.4010 (Nominal)	4.000 (Maximum)	-66.00 (Minimum)	0 (Nominal)	66.00 (Maximum)
116	2.266			8.951		
	-27.70 (Minimum)	1.505 (Nominal)	30.70 (Maximum)	-57.80 (Minimum)	0 (Nominal)	57.80 (Maximum)

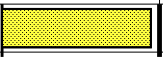
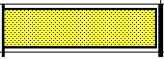
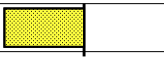
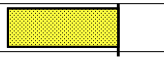
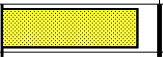
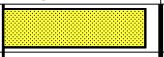


Powered Positioning Device/Caliper 2 / Equipment Identification

Primary Equipment:

PPC Powered Positioning Device/Caliper
PPC2 Caliper 40 Extension

PPC2 – B
PPC_ –

Auxiliary Equipment:

Powered Positioning Device/Caliper 2 Wellsite Calibration									
PPC2 Caliper Calibration									
Phase	PPC2 Radius 1 Raw Small Radius MM			Value	Phase	PPC2 Radius 1 Raw Large Radius MM			Value
Before				139.6	Before				245.1
	30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)			154.9 (Minimum)	203.2 (Nominal)	246.4 (Maximum)	
Phase	PPC2 Radius 2 Raw Small Radius MM			Value	Phase	PPC2 Radius 2 Raw Large Radius MM			Value
Before				59.05	Before				169.2
	30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)			154.9 (Minimum)	203.2 (Nominal)	246.4 (Maximum)	
Phase	PPC2 Radius 3 Raw Small Radius MM			Value	Phase	PPC2 Radius 3 Raw Large Radius MM			Value
Before				135.0	Before				242.2
	30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)			154.9 (Minimum)	203.2 (Nominal)	246.4 (Maximum)	
Phase	PPC2 Radius 4 Raw Small Radius MM			Value	Phase	PPC2 Radius 4 Raw Large Radius MM			Value
Before				75.27	Before				186.6
	30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)			154.9 (Minimum)	203.2 (Nominal)	246.4 (Maximum)	
Before: 5-Mar-2007 19:34									

Accelerator-Porosity Tool / Equipment Identification

Primary Equipment:









Accelerator-Porosity Sonde
APS Minitron

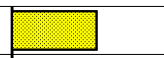
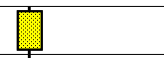
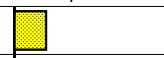
APS – C 218
MNTR – F 5329 5890

Auxiliary Equipment:







Accelerator-Porosity Housing
APS Calibration Water Tank
APS Aluminum Calibrator Sleeve




APH – AC 121
SFT – 178 53
SFT – 281 12673 12673







Accelerator-Porosity Tool Wellsite Calibration									
Detector Background									
Phase	Near Det Bkg Cntrate CPS			Value	Phase	Far Det Bkg Cntrate CPS			Value
Master				26.50	Master				25.93
Before				25.71	Before				25.16
	1.000 (Minimum)	30.00 (Nominal)	50.00 (Maximum)			1.000 (Minimum)	30.00 (Nominal)	50.00 (Maximum)	
Phase	Array-2 Det Bkg Cntrate CPS			Value	Phase	Array Therm Det Bkg Cntrate CPS			Value
Master				26.06	Master				25.75
Before				25.75	Before				25.43
	1.000 (Minimum)	30.00 (Nominal)	50.00 (Maximum)			1.000 (Minimum)	30.00 (Nominal)	50.00 (Maximum)	
Master: 12-Jan-2007 23:16					Before: 5-Mar-2007 14:09				

Accelerator-Porosity Tool Wellsite Calibration														
Calibration Ratios														
Phase	Near/Far Calibration Ratio			Value	Phase	Near/Array Calibration Ratio			Value	Phase	Near/Array Cal Ratio Up/Down			Value
Master				0.9971	Master				1.039	Master				1.011
	0.8000 (Minimum)	0.9250 (Nominal)	1.050 (Maximum)			0.9000 (Minimum)	1.030 (Nominal)	1.170 (Maximum)			0.9700 (Minimum)	1.000 (Nominal)	1.030 (Maximum)	
Master: 12-Jan-2007 23:16														

Accelerator-Porosity Tool Wellsite Calibration											
Tank Check											
Phase	Array-1 Standoff Porosity	V/V	Value	Phase	Array-2 Standoff Porosity	V/V	Value	Phase	Average Slowing Down Time	US	Value

Master		0.1109	Master		0.1131	Master		5.901			
0.09900 (Minimum) 0.1175 (Nominal) 0.1360 (Maximum)			0.09900 (Minimum) 0.1175 (Nominal) 0.1360 (Maximum)			5.500 (Minimum) 6.000 (Nominal) 6.250 (Maximum)					
Phase	Array-1 SDT Ratio Up/Down		Value	Phase	Array-2 SDT Ratio Up/Down		Value	Phase	Sigma Formation M-1		Value
Master		0.9697	Master		0.9845	Master		2.723			
0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)			0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)			2.000 (Minimum) 2.750 (Nominal) 3.500 (Maximum)					
Master: 12-Jan-2007 23:16											

Accelerator-Porosity Tool Master Calibration											
Detector Calibration											
Phase	Near/Far Calibration Ratio		Value	Phase	Near/Array Calibration Ratio		Value	Phase	Near/Array Cal Ratio Up/Down		Value
Master		0.9971		Master		1.039		Master		1.011	
	0.8000 (Minimum)	0.9250 (Nominal)	1.050 (Maximum)		0.9000 (Minimum)	1.030 (Nominal)	1.170 (Maximum)		0.9700 (Minimum)	1.000 (Nominal)	1.030 (Maximum)
Master: 12-Jan-2007 23:16											

Accelerator-Porosity Tool Master Calibration											
Tank Check											
Phase	Array-1 Standoff Porosity V/V		Value	Phase	Array-2 Standoff Porosity V/V		Value	Phase	Average Slowing Down Time US		Value
Master		0.1109		Master		0.1131		Master		5.901	
	0.09900 (Minimum)	0.1175 (Nominal)	0.1360 (Maximum)		0.09900 (Minimum)	0.1175 (Nominal)	0.1360 (Maximum)		5.500 (Minimum)	6.000 (Nominal)	6.250 (Maximum)
Phase	Array-1 SDT Ratio Up/Down		Value	Phase	Array-2 SDT Ratio Up/Down		Value	Phase	Sigma Formation M-1		Value
Master		0.9697		Master		0.9845		Master		2.723	
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		2.000 (Minimum)	2.750 (Nominal)	3.500 (Maximum)
Master: 12-Jan-2007 23:16											









High Resolution Laterolog Array – B / Equipment Identification



Primary Equipment:
HRLT Sonde

HRLS – B

Auxiliary Equipment:
HRLT lower Housing
HRLT Lower Cartridge
HRLT upper Housing
HRLT Upper Cartridge

HRLH – B
HRLC – B
HRLH – B
HRUH – B
HRUC – B

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M01						
Idx	Phase	HRLT M0-M1 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-317.8	-322.7	-280.7	-379.7
1	Before		-325.7	-322.7	-280.7	-379.7
2	Before		-320.0	-322.7	-280.7	-379.7
3	Before		-326.9	-322.7	-280.7	-379.7
4	Before		-316.2	-322.7	-280.7	-379.7
5	Before		-320.8	-322.7	-280.7	-379.7
6	Before		347.6	322.7	379.7	280.7
7	Before		-322.7	-322.7	-280.7	-379.7
		(Minimum) (Nominal) (Maximum)				
Before: 6-Mar-2007 11:09						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M12						
Idx	Phase	HRLT M1-M2 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1751	1781	2095	1549
1	Before		1806	1781	2095	1549









2	Before		1766	1781	2095	1549
3	Before		1801	1781	2095	1549
4	Before		1740	1781	2095	1549
5	Before		1765	1781	2095	1549
6	Before		-1936	-1781	-1549	-2095
7	Before		1781	1781	2095	1549
(Minimum) (Nominal) (Maximum)						
Before: 6-Mar-2007 11:09						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M23						
Idx	Phase	HRLT M2-M3 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1735	1781	2095	1549
1	Before		1799	1781	2095	1549
2	Before		1761	1781	2095	1549
3	Before		1801	1781	2095	1549
4	Before		1734	1781	2095	1549
5	Before		1760	1781	2095	1549
6	Before		-1916	-1781	-1549	-2095
7	Before		1781	1781	2095	1549
(Minimum) (Nominal) (Maximum)						
Before: 6-Mar-2007 11:09						









High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V34						
Idx	Phase	HRLT A3-A4 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68490	70000	82360	60900
1	Before		70610	70000	82360	60900
2	Before		69450	70000	82360	60900
3	Before		71320	70000	82360	60900
4	Before		68690	70000	82360	60900
5	Before		69780	70000	82360	60900
6	Before		-74180	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
(Minimum) (Nominal) (Maximum)						
Before: 6-Mar-2007 11:09						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V45						
Idx	Phase	HRLT A4-A5 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68340	70000	82360	60900
1	Before		71060	70000	82360	60900
2	Before		69750	70000	82360	60900
3	Before		71490	70000	82360	60900
4	Before		68650	70000	82360	60900
5	Before		69660	70000	82360	60900
6	Before		-74690	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
(Minimum) (Nominal) (Maximum)						









Before: 6-Mar-2007 11:09

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V56						
Idx	Phase	HRLT A5–A6 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68470	70000	82360	60900
1	Before		70830	70000	82360	60900
2	Before		69620	70000	82360	60900
3	Before		71420	70000	82360	60900
4	Before		68720	70000	82360	60900
5	Before		69750	70000	82360	60900
6	Before		-74430	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
(Minimum) (Nominal) (Maximum)						




Before: 6-Mar-2007 11:09






High Resolution Laterolog Array – B Wellsite Calibration						
HRLT VTP						
Idx	Phase	HRLT Torpedo–M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-68030	-70000	-60900	-82360
1	Before		-70740	-70000	-60900	-82360
2	Before		-69510	-70000	-60900	-82360
3	Before		-71360	-70000	-60900	-82360
4	Before		-68680	-70000	-60900	-82360
5	Before		-69760	-70000	-60900	-82360
6	Before		74270	70000	82360	60900
7	Before		-70000	-70000	-60900	-82360
(Minimum) (Nominal) (Maximum)						









Before: 6-Mar-2007 11:09

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT VBD						
Idx	Phase	HRLT Bridle#9–M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-68090	-70000	-60900	-82360
1	Before		-70940	-70000	-60900	-82360
2	Before		-69700	-70000	-60900	-82360
3	Before		-71520	-70000	-60900	-82360
4	Before		-68780	-70000	-60900	-82360
5	Before		-69820	-70000	-60900	-82360
6	Before		74500	70000	82360	60900
7	Before		-70000	-70000	-60900	-82360
(Minimum) (Nominal) (Maximum)						













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High Resolution Laterolog Array – B Wellsite Calibration						
HRLT ISO						
Idx	Phase	HRLT Source Current Plus UA	Value	Nominal	Maximum	Minimum
0	Before		283.5	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: 6-Mar-2007 11:09						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT MV						
Idx	Phase	HRLT Vertical Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-320.2	-322.7	-280.7	-379.7
1	Before		-321.5	-322.7	-280.7	-379.7
2	Before		-314.6	-322.7	-280.7	-379.7
3	Before		-319.6	-322.7	-280.7	-379.7
4	Before		-306.4	-322.7	-280.7	-379.7
5	Before		-325.7	-322.7	-280.7	-379.7
6	Before		356.3	322.7	379.7	280.7
7	Before		-322.7	-322.7	-280.7	-379.7
(Minimum) (Nominal) (Maximum)						
Before: 6-Mar-2007 11:09						

Environment Measurement Sonde / Equipment Identification				
Primary Equipment:				
EMS Mechanical	EMM – B	8102	8102	
EMS Cartridge	EMC – B	8035	8035	
EMS Adaptor	EMA – B	8018	8018	
Resistivity Meter	RES –			
Auxiliary Equipment:				
Electronics Cartridge Housing	ECH – KH	8045	8045	

Environment Measurement Sonde Wellsite Calibration					
EMS Caliper Calibration					
Phase	Radius 1 Short Radius MM	Value	Phase	Radius 1 Long Radius MM	Value
Before		99.22	Before		159.4
76.20 (Minimum) 101.6 (Nominal) 127.0 (Maximum)			127.0 (Minimum) 152.4 (Nominal) 177.8 (Maximum)		
Phase	Radius 2 Short Radius MM	Value	Phase	Radius 2 Long Radius MM	Value
Before		165.6	Before		104.3
127.0 (Minimum) 152.4 (Nominal) 177.8 (Maximum)			76.20 (Minimum) 101.6 (Nominal) 127.0 (Maximum)		
Phase	Radius 3 Short Radius MM	Value	Phase	Radius 3 Long Radius MM	Value
Before		94.45	Before		156.2
76.20 (Minimum) 101.6 (Nominal) 127.0 (Maximum)			127.0 (Minimum) 152.4 (Nominal) 177.8 (Maximum)		
Phase	Radius 4 Short Radius MM	Value	Phase	Radius 4 Long Radius MM	Value
Before		161.6	Before		101.9
127.0 (Minimum) 152.4 (Nominal) 177.8 (Maximum)			76.20 (Minimum) 101.6 (Nominal) 127.0 (Maximum)		
Phase	Radius 5 Short Radius MM	Value	Phase	Radius 5 Long Radius MM	Value
Before		95.89	Before		154.5
76.20 (Minimum) 101.6 (Nominal) 127.0 (Maximum)			127.0 (Minimum) 152.4 (Nominal) 177.8 (Maximum)		
Phase	Radius 6 Short Radius MM	Value	Phase	Radius 6 Long Radius MM	Value
Before		156.3	Before		95.78
127.0 (Minimum) 152.4 (Nominal) 177.8 (Maximum)			76.20 (Minimum) 101.6 (Nominal) 127.0 (Maximum)		

127.0 (Minimum)	152.4 (Nominal)	177.8 (Maximum)	76.20 (Minimum)	101.6 (Nominal)	127.0 (Maximum)
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Before: 5-Mar-2007 14:59

General Purpose Inclinomater / Equipment Identification

Primary Equipment:
GPIT Cartridge – C

GPIC – C

Auxiliary Equipment:
GPIT Housing



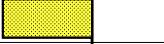





GPIH – B

Powered Positioning Device/Caliper 1 / Equipment Identification

Primary Equipment:
PPC Powered Positioning Device/Caliper
PPC1 Caliper 40 Extension

PPC1 – B
PPC_ –

Auxiliary Equipment:

Powered Positioning Device/Caliper 1 Wellsite Calibration											
PPC1 Caliper Calibration											
Phase	PPC1 Radius 1 Raw Small Radius MM			Value	Phase	PPC1 Radius 1 Raw Large Radius MM			Value		
Before				137.5	Before				244.4		
	30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)			154.9 (Minimum)	203.2 (Nominal)	246.4 (Maximum)			
Phase	PPC1 Radius 2 Raw Small Radius MM			Value	Phase	PPC1 Radius 2 Raw Large Radius MM			Value		
Before				55.65	Before				168.8		
	30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)			154.9 (Minimum)	203.2 (Nominal)	246.4 (Maximum)			
Phase	PPC1 Radius 3 Raw Small Radius MM			Value	Phase	PPC1 Radius 3 Raw Large Radius MM			Value		
Before				136.3	Before				244.0		
	30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)			154.9 (Minimum)	203.2 (Nominal)	246.4 (Maximum)			
Phase	PPC1 Radius 4 Raw Small Radius MM			Value	Phase	PPC1 Radius 4 Raw Large Radius MM			Value		
Before				63.71	Before				178.0		
	30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)			154.9 (Minimum)	203.2 (Nominal)	246.4 (Maximum)			

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Enhanced DTS Cartridge / Equipment Identification


Primary Equipment:
Enhanced DTS Cartridge

EDTC – B

Auxiliary Equipment:
EDTC Housing

EDTH – B

Enhanced DTS Cartridge Wellsite Calibration														
Detector Calibration														
Phase	Gamma Ray Background GAPI			Value	Phase	Gamma Ray (Jig – Bkg) GAPI			Value	Phase	Gamma Ray (Calibrated) GAPI			Value
Before				5.155	Before				159.1	Before				165.0
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)			144.7 (Minimum)	159.1 (Nominal)	173.6 (Maximum)			150.0 (Minimum)	165.0 (Nominal)	180.0 (Maximum)	
Before: 6-Mar-2007 10:05														

Enhanced DTS Cartridge Wellsite Calibration											
EDTC Accelerometer Calibration											
Phase	EDTC Z-Axis Acceleration M/S2			Value							
Before				9.805							
	9.610 (Minimum)	9.810 (Nominal)	10.01 (Maximum)								

Before: 6-Mar-2007 9:11

Company: **JOGMEC**



Well: **AURORA/JOGMEC/NRCAN MALLIK 2L-38**

Field: **MALLIK**

Province: **NWT**

ENVIRONMENTAL
MEASUREMENT SONDE