

Company: University of Utah

Well: FORGE 56-32 Monitor Well

Field: Wildcat

County: Beaver State: Utah

THRUBIT IMAGER
12-Arm Caliper from ThruBit Imager
MEMORY LOG

1564' FSL & 796' FWL	Elev.: K.B. 5482.12 ft
SEC: 32; TWP: 26; REG: 9W	G.L. 5451.72 ft
Survey: SLB&M	D.F.

Permanent Datum:	Ground Level	Elev.: 5451.72 f
Log Measured From:	Kelly Bushing	30.40 ft
Drilling Measured From:	Kelly Bushing	above Perm.Datum

API Serial No.	Max.Hole Deviation 0 deg	Longitude: 112° 53' 11.354" W	Latitude: 38° 30' 14.512" N
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County: Beaver
Field: Wildcat
Location: 1564' FSL & 796' FWL
Well: FORGE 56-32 Monitor Well
Company: University of Utah

Logging Date 27-Feb-2021

Run Number ONE

Depth Driller 9145.00 ft

Schlumberger Depth 9145.00 ft

Bottom Log Interval 9105.00 ft

Top Log Interval 3500.00 ft

Casing Driller Size @ Depth 9.625 in @ 3100.00 ft

Casing Schlumberger 3100 ft

Bit Size 8.75 in

Type Fluid In Hole WBM

Density	Viscosity	42 s
Fluid Loss	PH	10.5

Source of Sample	Active Tank
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RM @ Meas Temp	0.2 ohm.m	@ 68 degF
RMF @ Meas Temp	0.15 ohm.m	@ 68 degF

RMC @ Meas Temp	
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Source RMF	RMC	Pressed
RM @ BHT	RMF @ BHT	0.05 @ 306 0.04 @ 306

Max Recorded Temperatures	
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Circulation Stopped	Time	27-Feb-2021	16:45:00
Logger on Bottom	Time	27-Feb-2021	17:00:00

Unit Number	Location:	2801	Fort Morgan, CO
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Recorded By	M. Van Gaal/T. Mozena
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Witnessed By	Virgil Welch
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Disclaimer

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14.4 Log (TBEI Sonde2 LQC RM)

14.5 Parameter Listing

15. ONE

15.1 Integration Summary

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15.3 Composite Summary

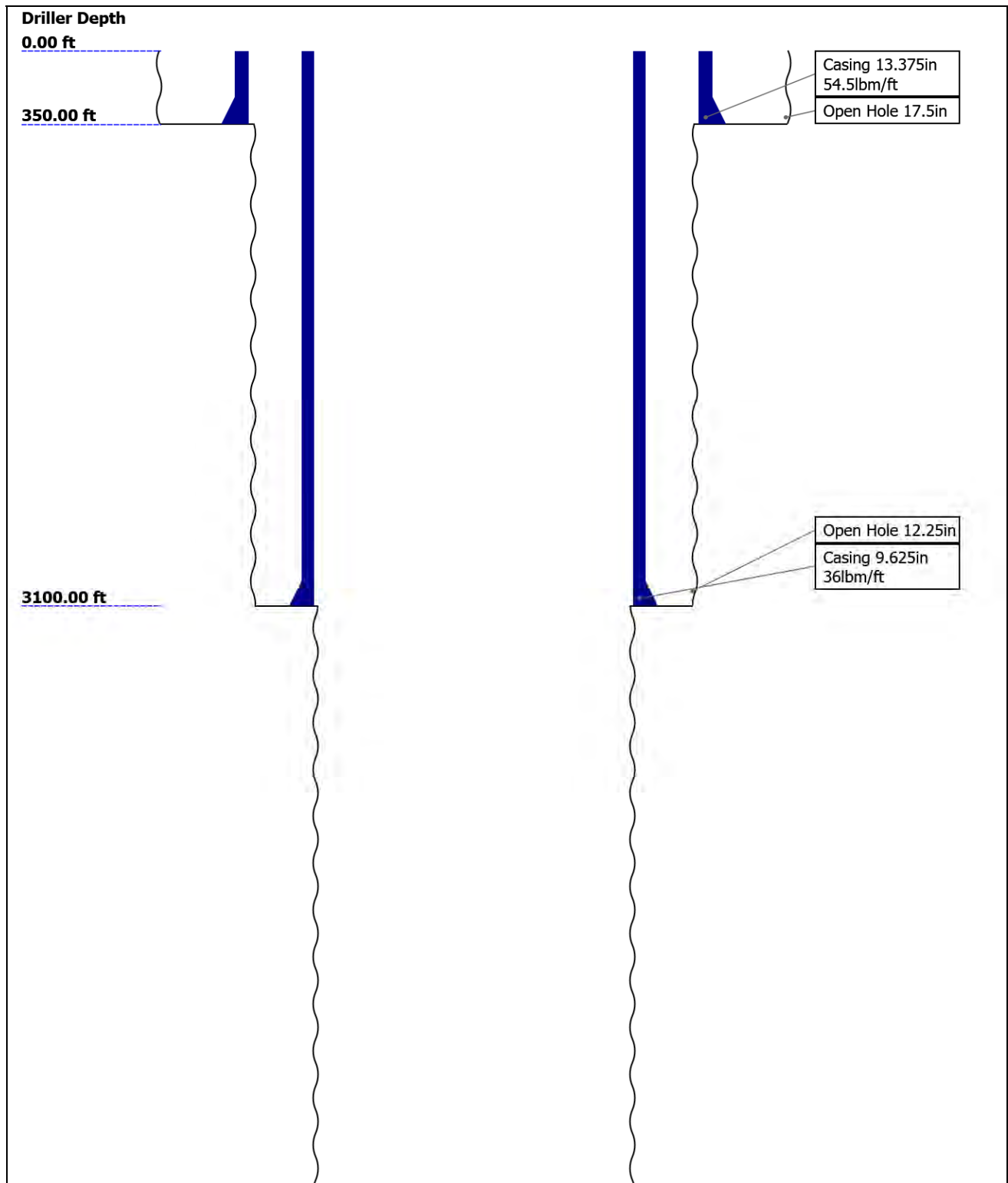
15.4 Log (TBEI Sonde3 LQC RM)

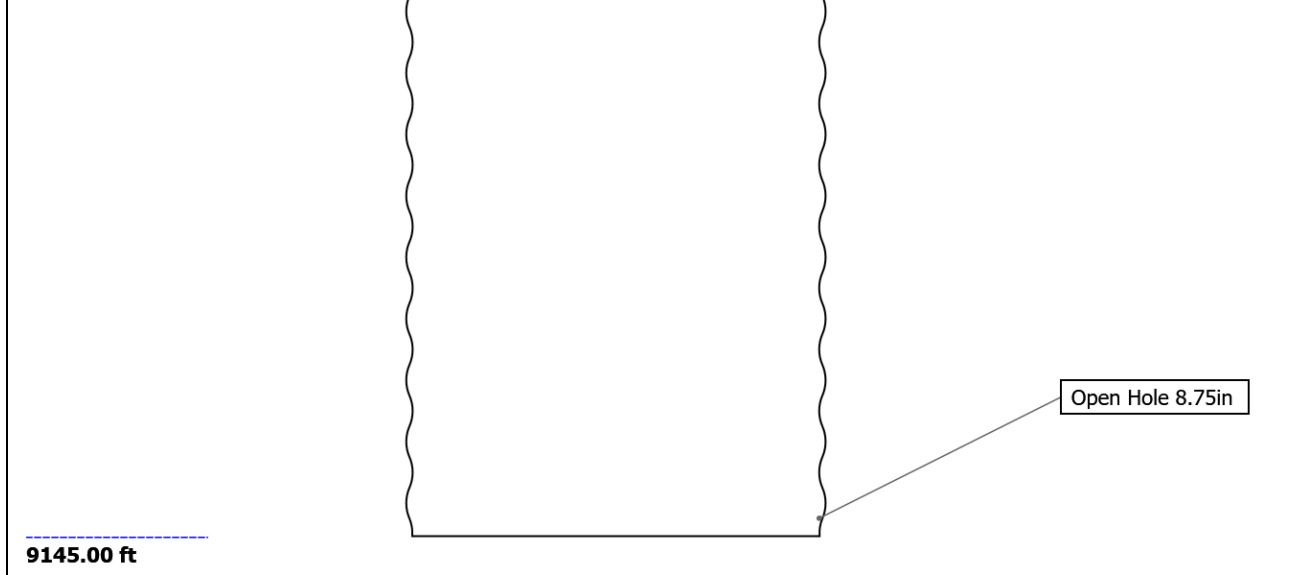
15.5 Parameter Listing

16. Calibration Report

17. Tail

Well Sketch





Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	17.5	12.25	8.75			
Top Driller (ft)	0	350	3100			
Top Logger (ft)	0	350	3100			
Bottom Driller (ft)	350	3100	9145			
Bottom Logger (ft)	350	3100	9145			
Casing						
Size (in)	13.375	9.625				
Weight (lbm/ft)	54.5	36				
Inner Diameter (in)	12.615	8.921				
Grade	N/A	N/A				
Top Driller (ft)	0	0				
Top Logger (ft)	0	0				
Bottom Driller (ft)	350	3100				
Bottom Logger (ft)	350	3100				

Remarks and Equipment Summary

ONE: Toolstring				ONE: Remarks	
Equip name	Length	MP name	Offset	Thank you for choosing Schlumberger!	
PEH-EFA	170.51			Toolstring ran as per toolsketch.	
AH-317-T	168.16			TD not tagged to avoid potential tool damage from pipe conveyance.	
B				All depth data take from rig's depth monitoring system.	
TBCCL-A	167.09			Driller's pipe tally used to compensate for drift.	
TBCCL-A				TB Density caliper closed after tools were released. Data not presented.	
TBDOT-A:	165.38			Data correlated to Casing shoe depth of 3500ft.	
019					
TBHO-AA	161.7				

AH-10[2] 156.71

SAH-TB:M 155.96
12474-3

TBAT-BA[153.62
3]

TBAT-BA[147.5
2]

TBAT-BA[141.37
1]

KAH-TB[2 135.25
]:56

TMG-A:70 133.83
TMG-A:70

Gamma-Ray 133.03

Status 127.7

TILE-AB 127.7

TBN-B:5 123.2
TBN-B:5
NNLS-EWA
:6458

Neutron Porosity 120.89

TBD-B:52 118.43
TBD-B:52
GGLS-FZ:3
354

Density 109.9
LS
Caliper 109.78
Density 109.51
SS

TBCR-A 107.95
TBCR-A

TBKS-AA: 106.39
003
TBCR 106.39

TBDS-B:21 100.02
TBDS-B:21

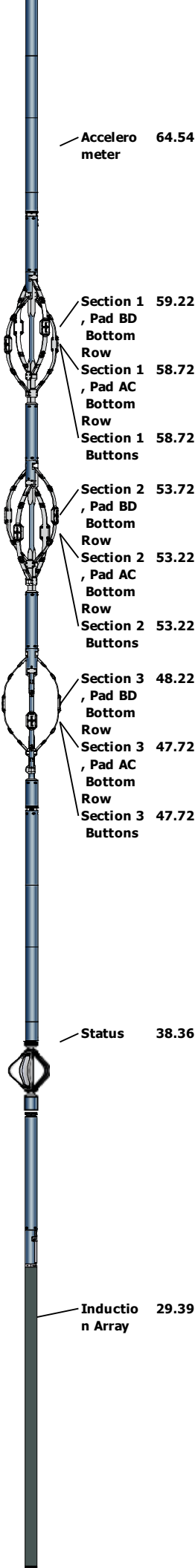
RX Array 88.91
y

Mono TX 81.23
Dipole TX 80.57
X

KAH-TB[1 70.91
]

TBEI-A:00 69.49
2

TBEI-A:003
TBEI-SOND
E3
TBEI-SOND
E2
TBEI-SOND
E1



Accelerometer 64.54

Section 1 59.22
, Pad BD
Bottom
Row
Section 1 58.72
, Pad AC
Bottom
Row
Section 1 58.72
Buttons

Section 2 53.72
, Pad BD
Bottom
Row
Section 2 53.22
, Pad AC
Bottom
Row
Section 2 53.22
Buttons

Section 3 48.22
, Pad BD
Bottom
Row
Section 3 47.72
, Pad AC
Bottom
Row
Section 3 47.72
Buttons

TCME-A 38.36

Status 38.36

TBIT-A:35 35.4
TBIT-A:35

Induction Array 29.39

Adaptor_H
ead[2]

20.12

AH-10[1]

20.02

TCME-BA

19.27

AH-01
Adaptor_H
ead[1]

15.18

15.00



TOOL_ZERO

Lengths are in ft

Maximum Outer Diameter = 2.125 in

Line: Sensor Location, Value: Gating Offset

All measurements are relative to TOOL_ZERO

Depth Summary

ONE

Depth Measuring Device

Type	IDW-B		
Serial Number			
Calibration Date			
Calibrator Serial Number			
Calibration Cable Type			
Wheel Correction 1	0		
Wheel Correction 2	0		

Tension Device

Type	CMTD-B/A		
Serial Number			
Calibration Date			
Calibrator Serial Number			
Number of Calibration Points	0		

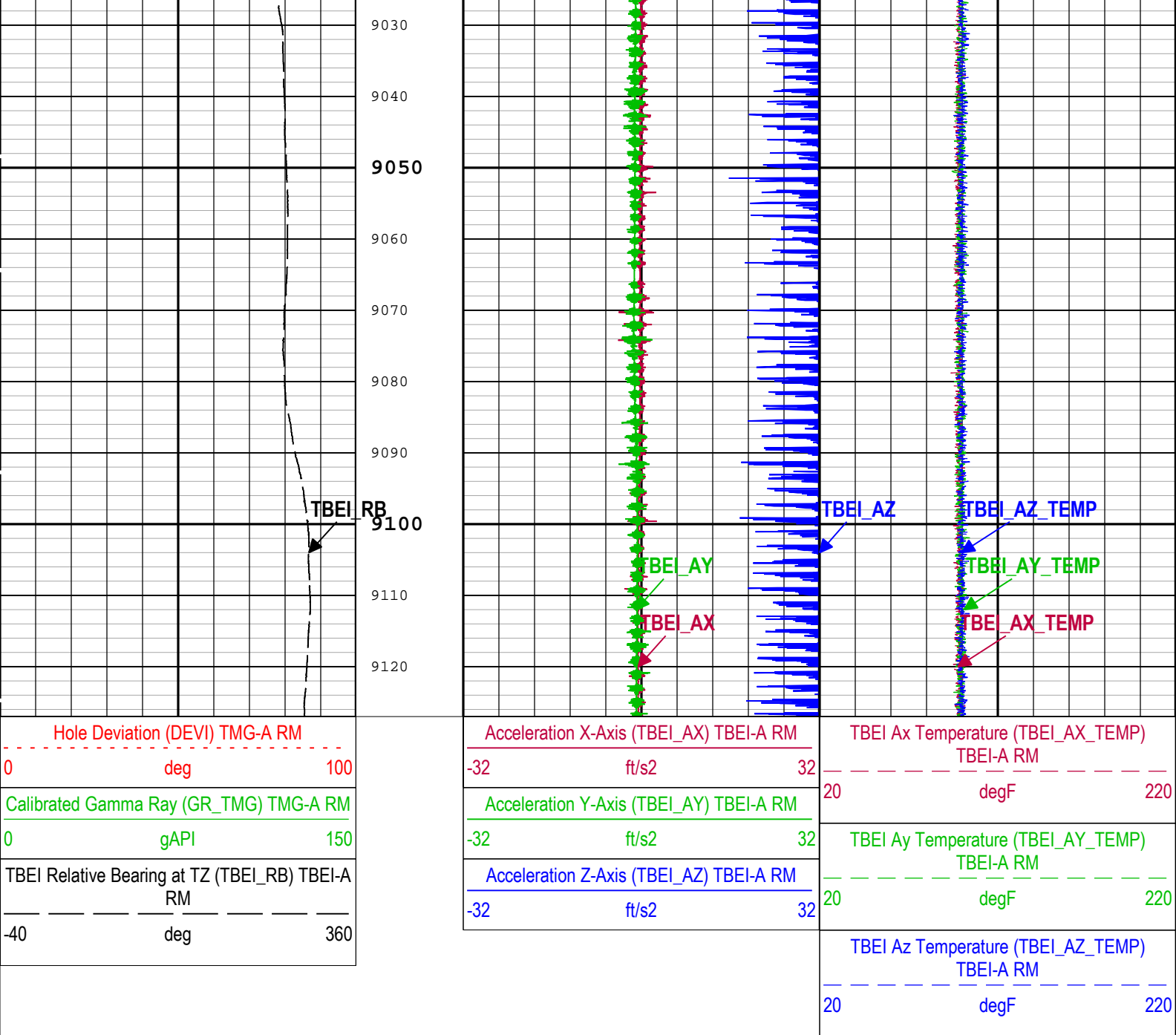
Logging Cable

Type	7-46A-XS		
Serial Number			
Length	24000.00 ft		
Conveyance Type	Wireline		
Rig Type	Land		

ONE:Depth Control Parameters

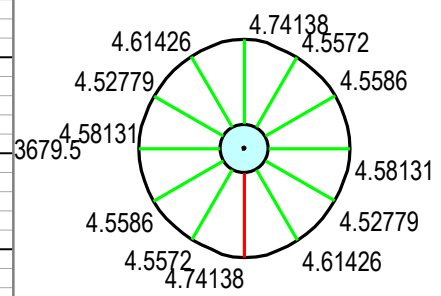
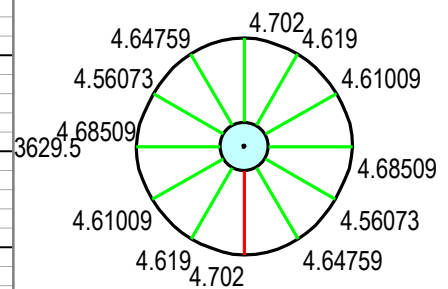
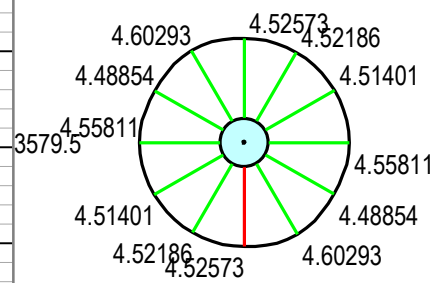
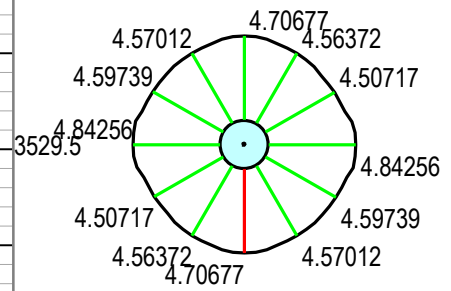
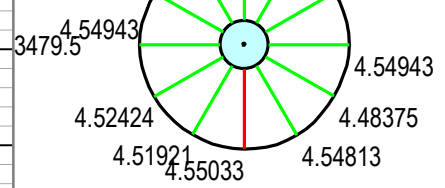
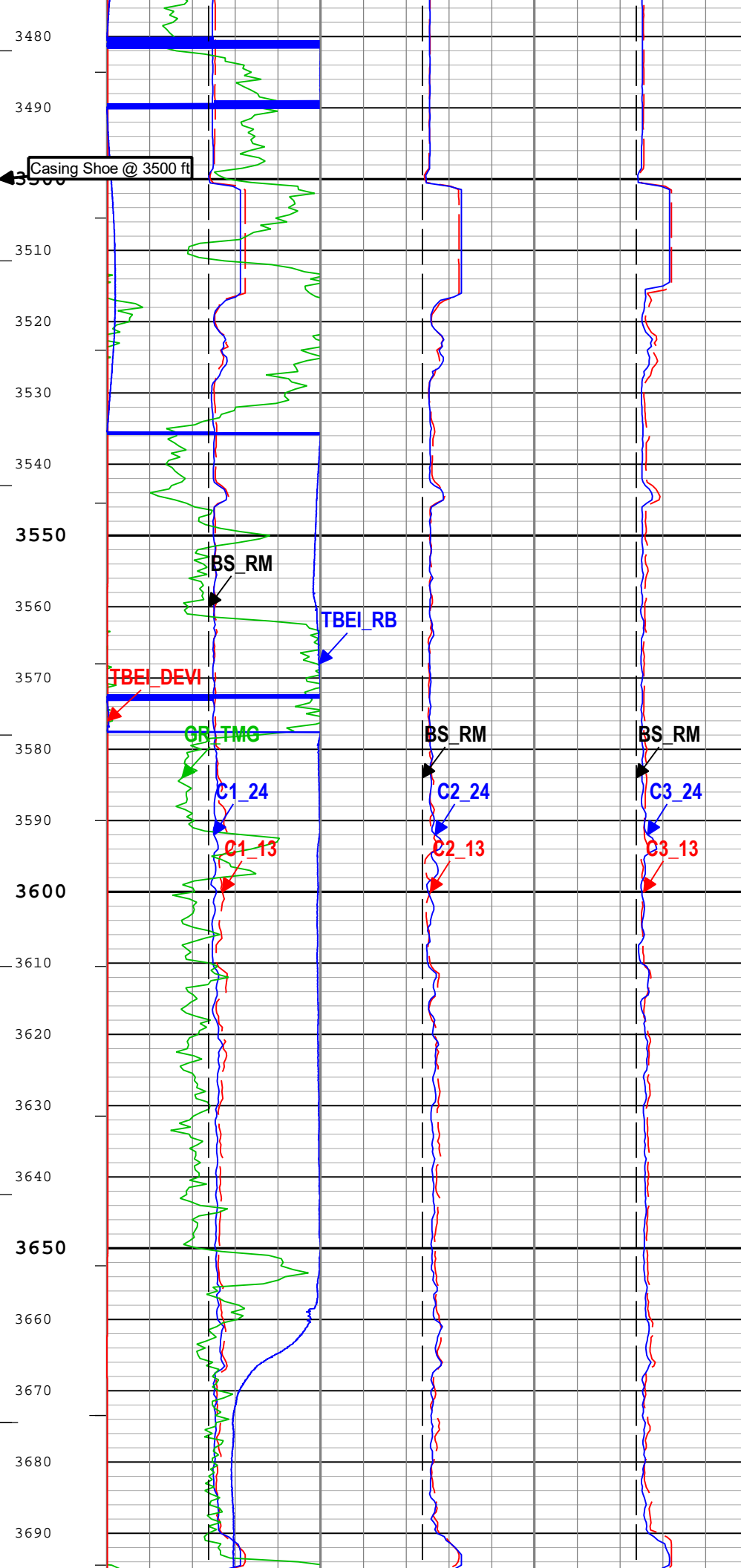
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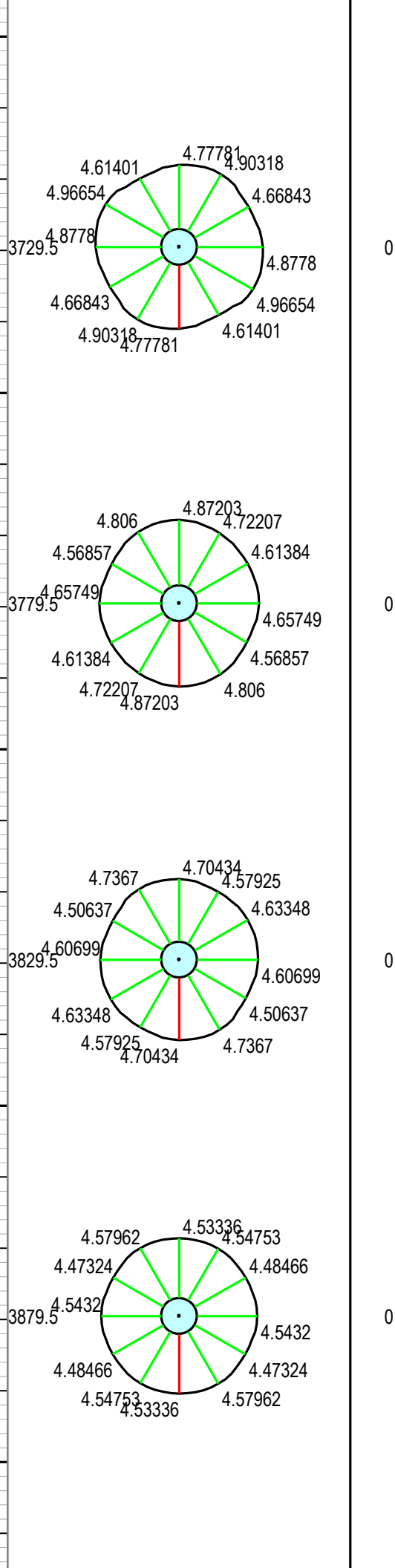
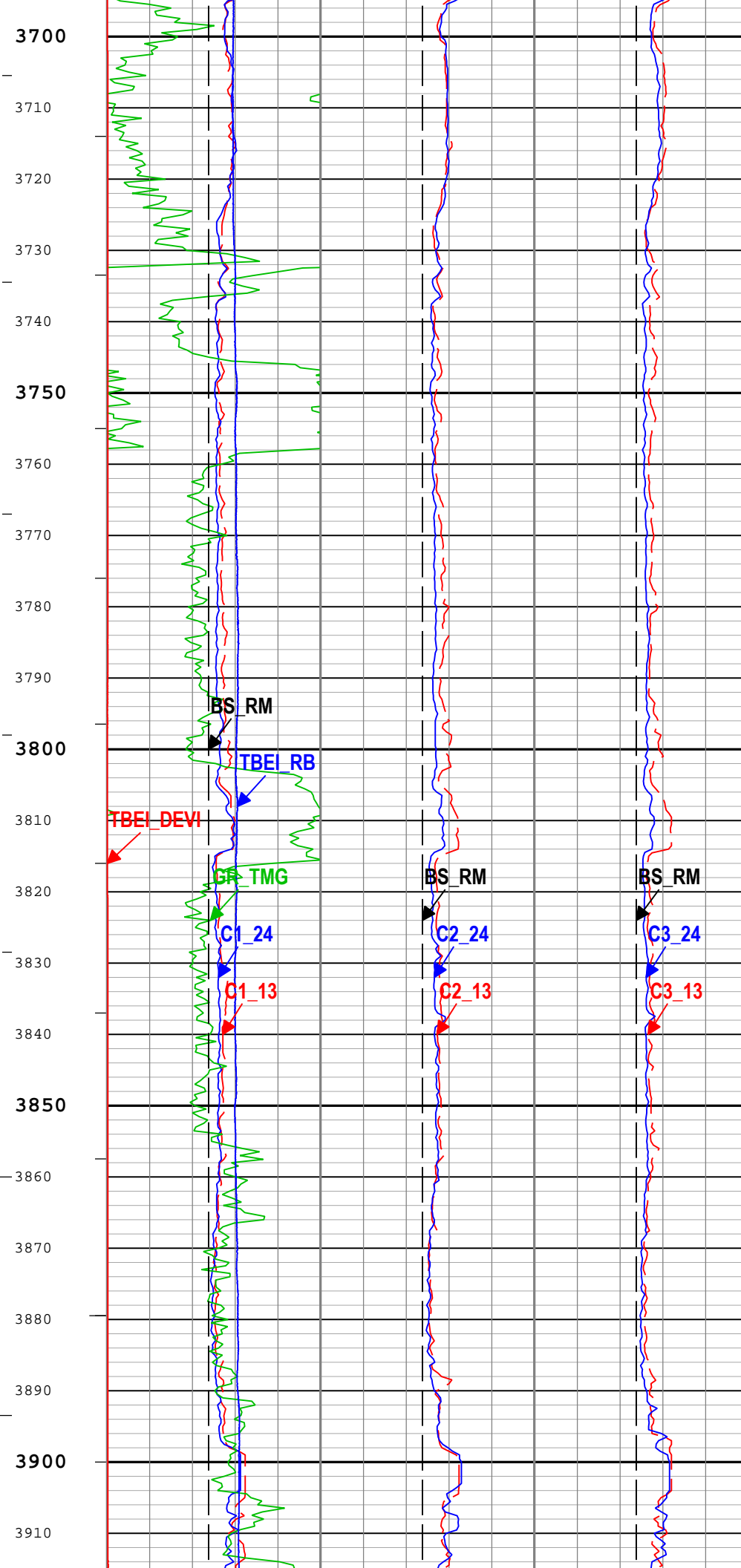
Log Sequence	First Log In the Well	Schlumberger depth control procedures followed
Rig Up Length At Surface		IDW used as primary depth control system
Rig Up Length At Bottom		Z-Chart used as secondary depth control system

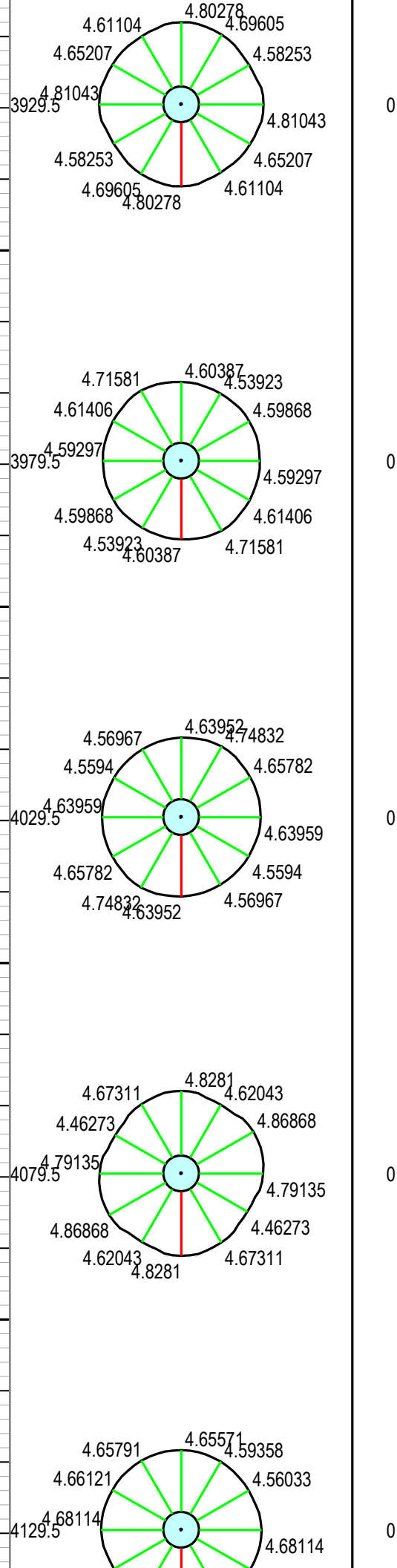
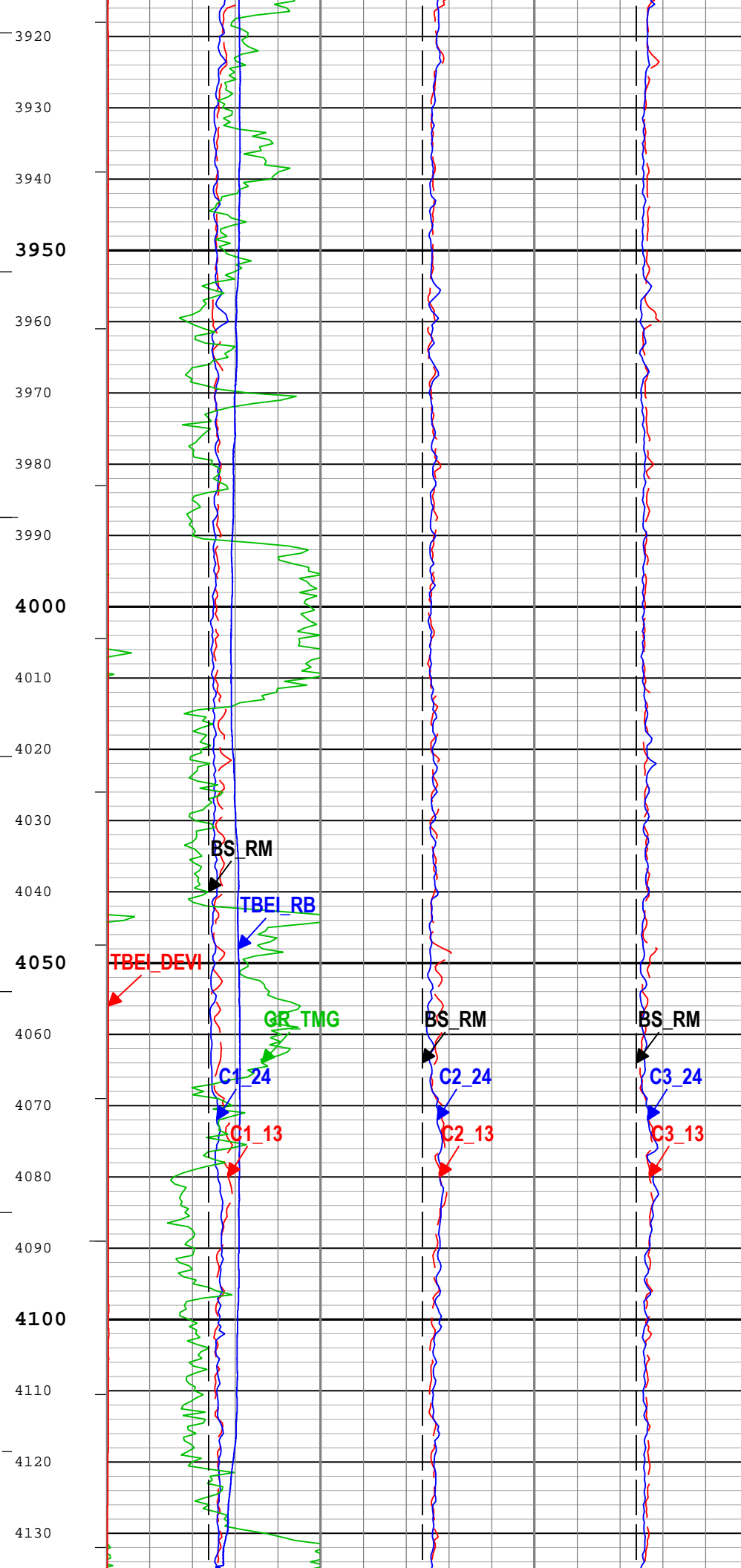


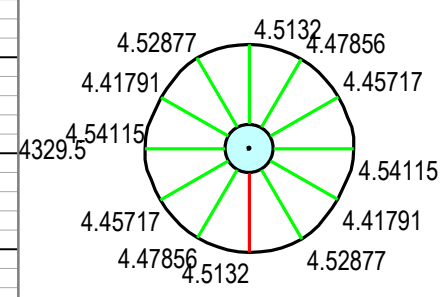
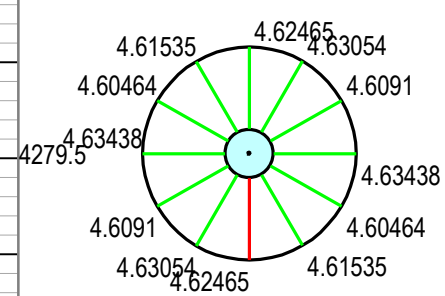
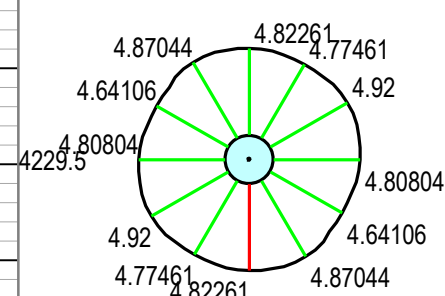
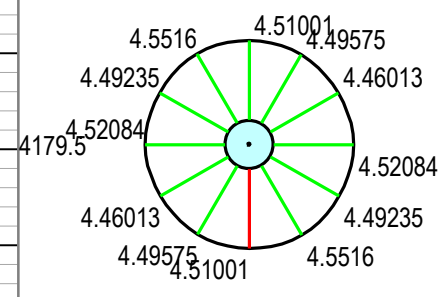
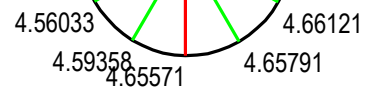
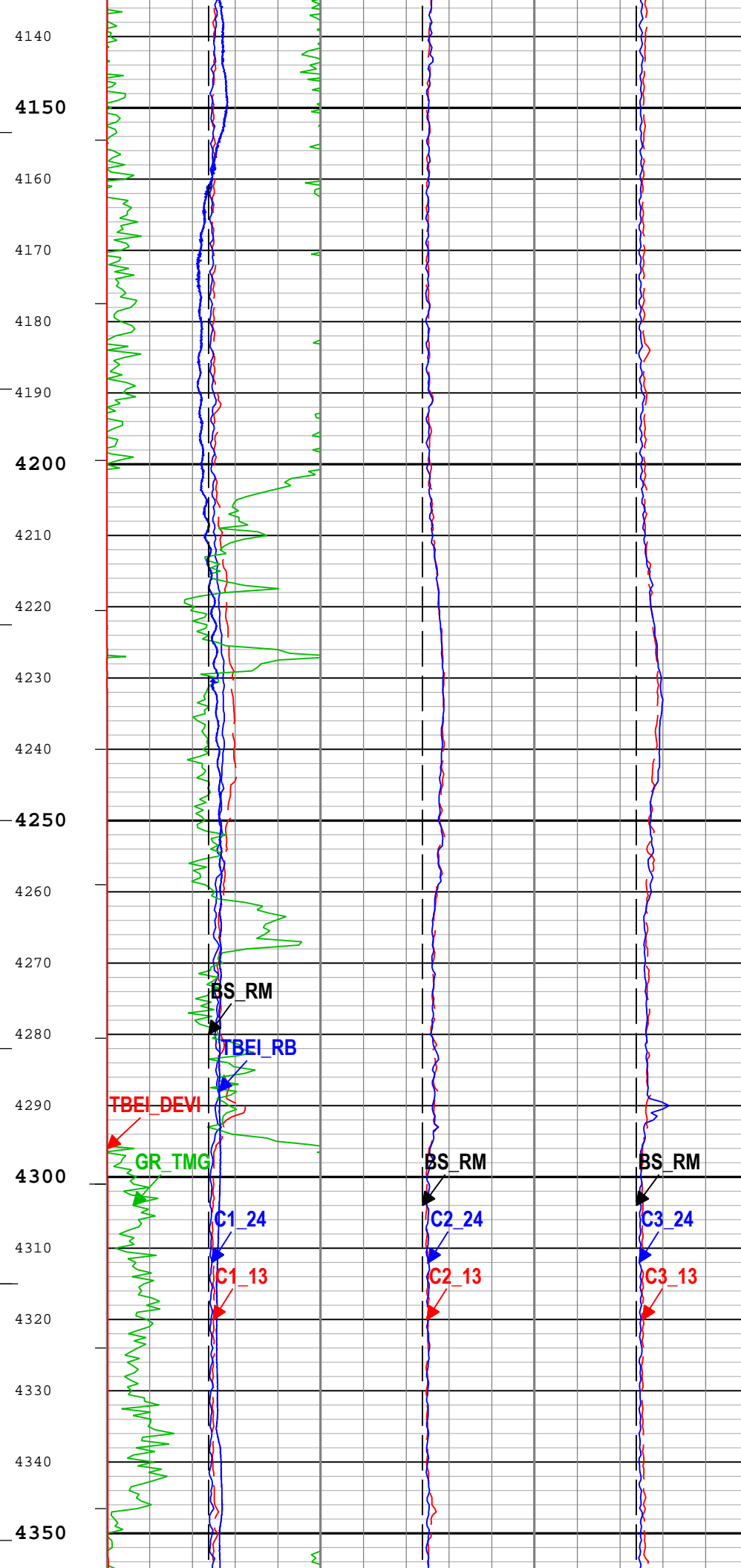
Channel Processing Parameters				
ONE: Parameters				
Parameter	Description	Tool	Value	Unit
DPINV_LAGCUT_TBDS	TBDS Lag Cut for Dipole Inversion	TBDS-B	No	
DPINV_PASS_RATE_XD_TBDS	Dipole Inversion Pass Rate for XD	TBDS-B	11.01	%
DPINV_PASS_RATE_YD_TBDS	Dipole Inversion Pass Rate for YD	TBDS-B	14.77	%
DPINV_RSLT_XD_TBDS	Dipole Inversion Processing Result for XD	TBDS-B	FAIL	
DPINV_RSLT_YD_TBDS	Dipole Inversion Processing Result for YD	TBDS-B	FAIL	
RB_OFFSET	Additional RB offset (degrees)	TMG-A	0	deg
Tool Control Parameters				
ONE				

Integration Summary									
Output Channel(s)	Output Description	Input Parameter			Output Value		Unit		
ICV	Integrated Cement Volume	GCSE_UP_PASS, FCD			1568.93		ft3		
IHV	Integrated Hole Volume	GCSE_UP_PASS			2505.48		ft3		
Software Version									
Acquisition System					Version				
Maxwell 2021.0					11.0.209095.3100				
Application Patch					Wireline_Hotfix-Mandatory-2021.0_11.0.211452				
					Wireline_NPD-ThruBit-2021.0_11.0.210501				
Pass Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[1]:Up	Up	654.53 ft	9126.99 ft	27-Feb-2021 6:19:54 PM	28-Feb-2021 1:05:55 AM	ON	17.00 ft	Yes
All depths are referenced to toolstring zero									
Log	Company:University of Utah Well:FORGE 56-32 Monitor Well ONE: Log[1]:Up:S011								
Description: TBEI Cross Section BoreHole Profile Recorder Mode Format: Log (TBEI Cross Section RM) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 28-Feb-2021 05:48:58									
TIME_1900 - Time Marked every 60.00 (s)									
— IHV_RM - Integrated Hole Volume every 10.00 (ft3)									
— IHV_RM - Integrated Hole Volume every 100.00 (ft3)									
— ICV_RM - Integrated Cement Volume every 10.00 (ft3)									
— ICV_RM - Integrated Cement Volume every 100.00 (ft3)									
<div>Caliper Section 1, Pads 1-3 (C1_13) TBEI-A RM</div> <div>4 in 14</div>			<div>Caliper Section 1, Pads 2-4 (C1_24) TBEI-A RM</div> <div>4 in 14</div>			<div>Calibrated Gamma Ray (GR_TMG) TMG-A RM</div> <div>0 gAPI 150</div>			
<div>TBEI Hole Deviation at TZ (TBEI_DEVI) TBEI-A RM</div> <div>0 deg 360</div>			<div>Caliper Section 2, Pads 1-3 (C2_13) TBEI-A RM</div> <div>4 in 14</div>			<div>Caliper Section 3, Pads 1-3 (C3_13) TBEI-A RM</div> <div>4 in 14</div>			
<div>TBEI Relative Bearing at TZ (TBEI_RB) TBEI-A RM</div> <div>0 deg 360</div>			<div>Caliper Section 2, Pads 2-4 (C2_24) TBEI-A RM</div> <div>4 in 14</div>			<div>Caliper Section 3, Pads 2-4 (C3_24) TBEI-A RM</div> <div>4 in 14</div>			
<div>Bit Size (BS_RM) RM</div> <div>4 in 14</div>			<div>Bit Size (BS_RM) RM</div> <div>4 in 14</div>			<div>Bit Size (BS_RM) RM</div> <div>4 in 14</div>			
<div>3450</div> <div>3460</div> <div>3470</div>						<div><div><div>#1</div><div>#2</div><div>#3</div><div>#4</div><div>#5</div><div>#6</div><div>#7</div><div>#8</div><div>#9</div><div>#10</div><div>#11</div><div>#12</div></div><div>Caliper</div><div>Y</div><div>-Y</div><div>Orientation Index: None</div></div> <div>TBEI - TBEI Borehole CrossSection TBEI-A RM</div> <div><div>Bit Size (BS)</div><div>-10 in 10</div><div>TBEI Borehole Data</div></div> <div><div>Future Casing Diameter (FCD)</div><div>-10 in 10</div><div>Orientation Angle: (deg)</div></div>			
<div><div>4.54813</div><div>4.55033</div><div>4.51921</div><div>4.52424</div><div>4.48375</div></div>									







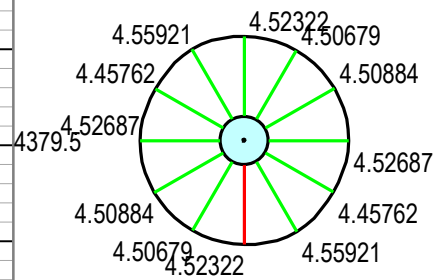
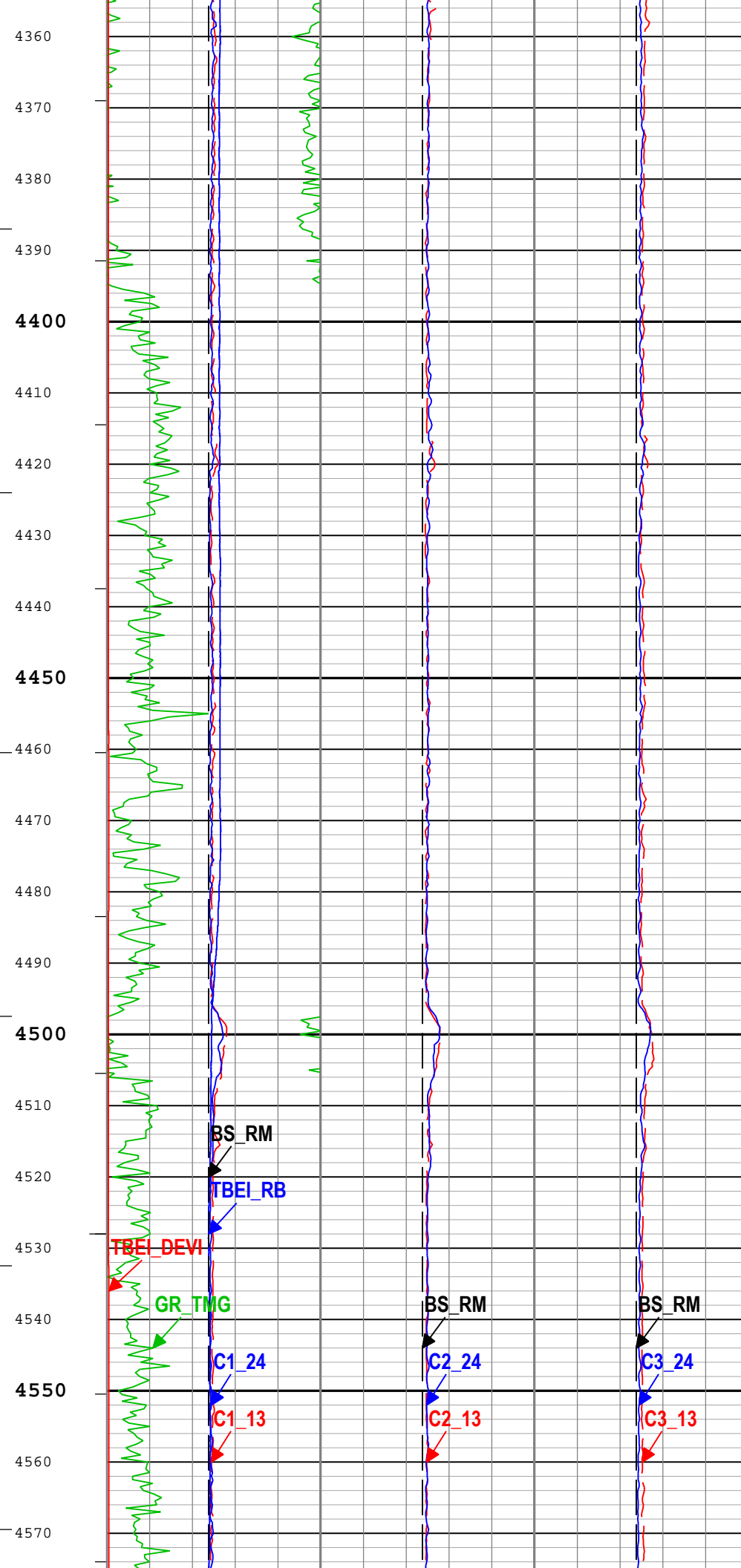


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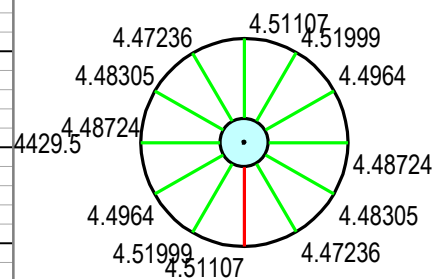
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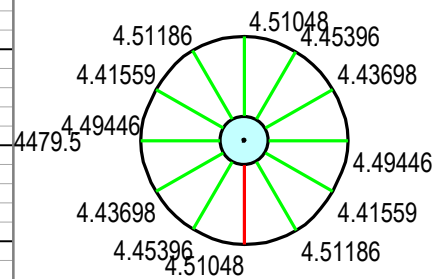
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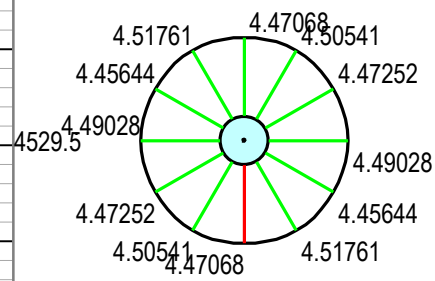
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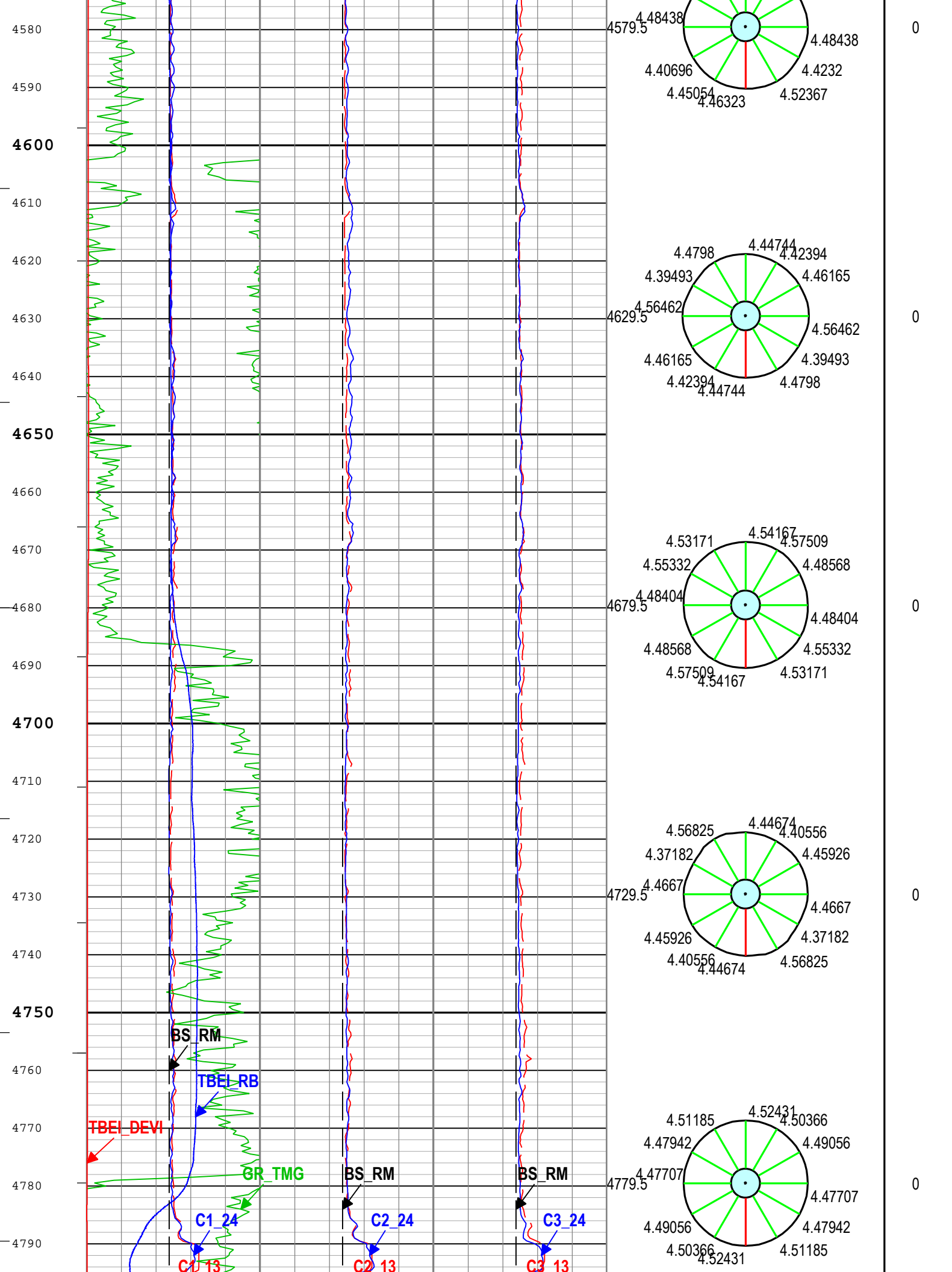


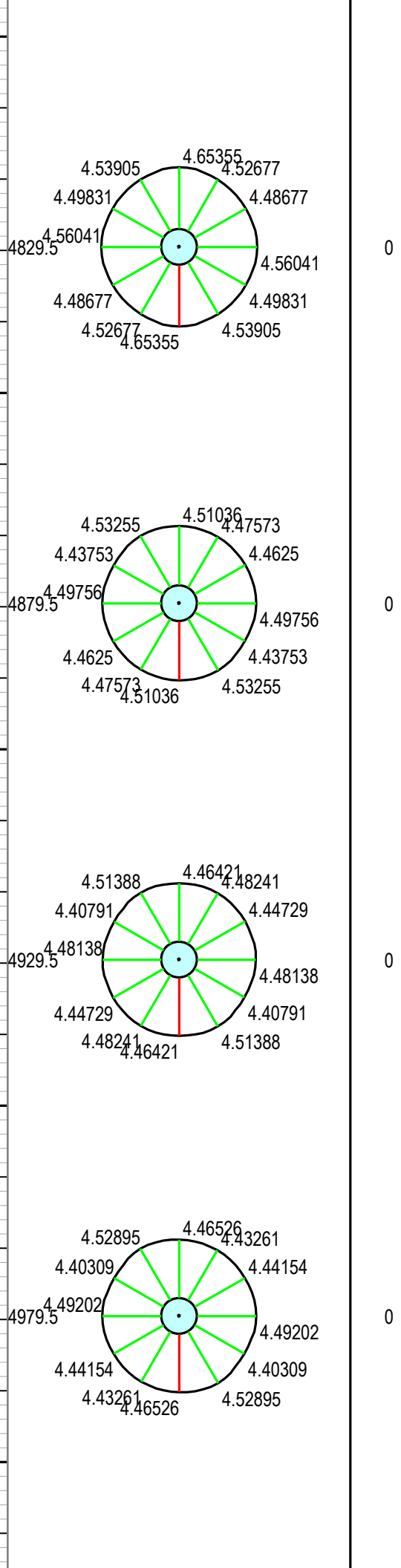
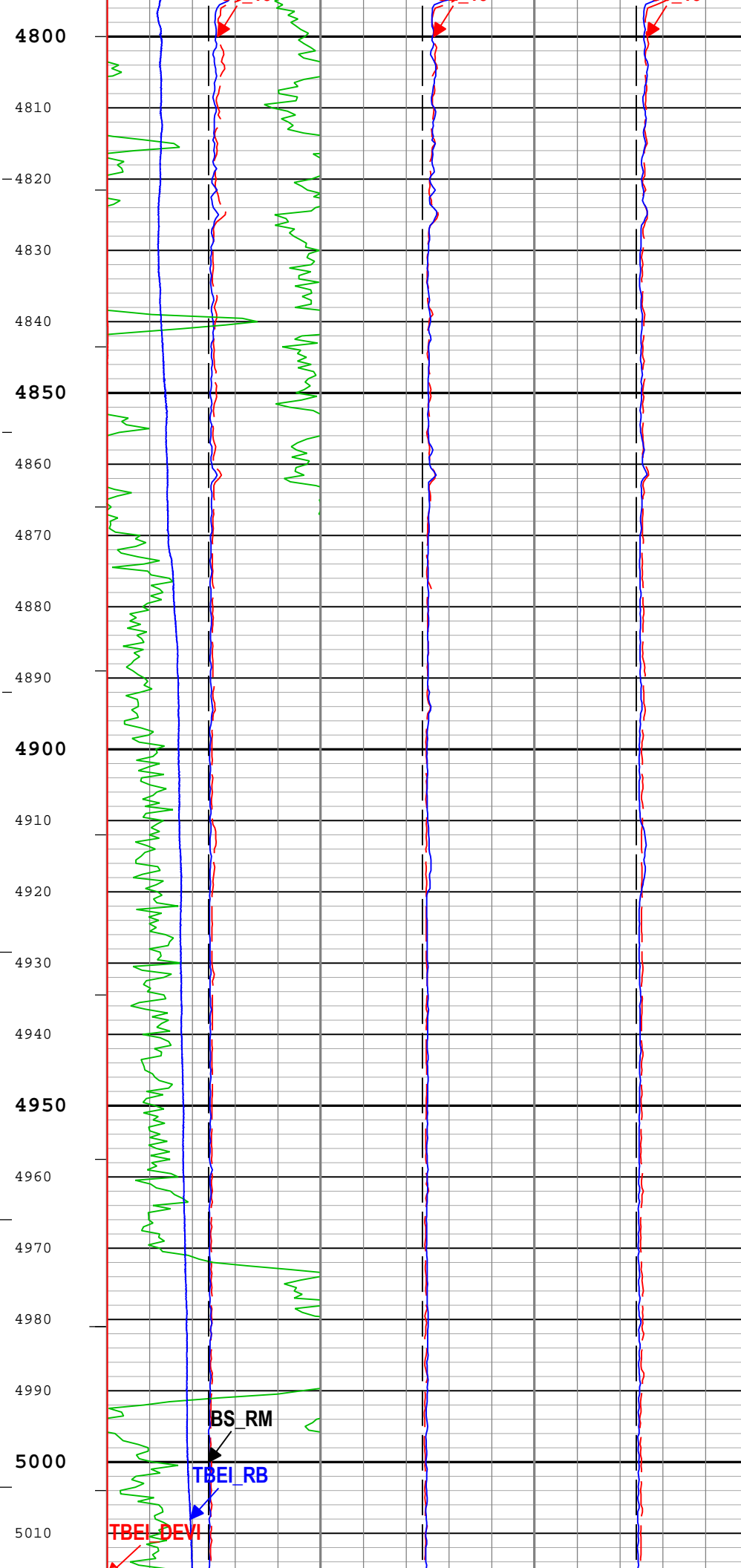
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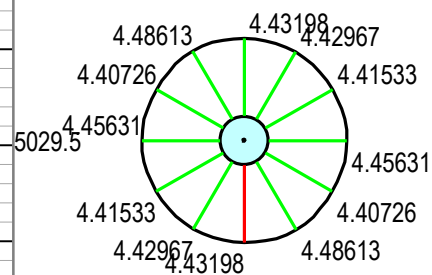
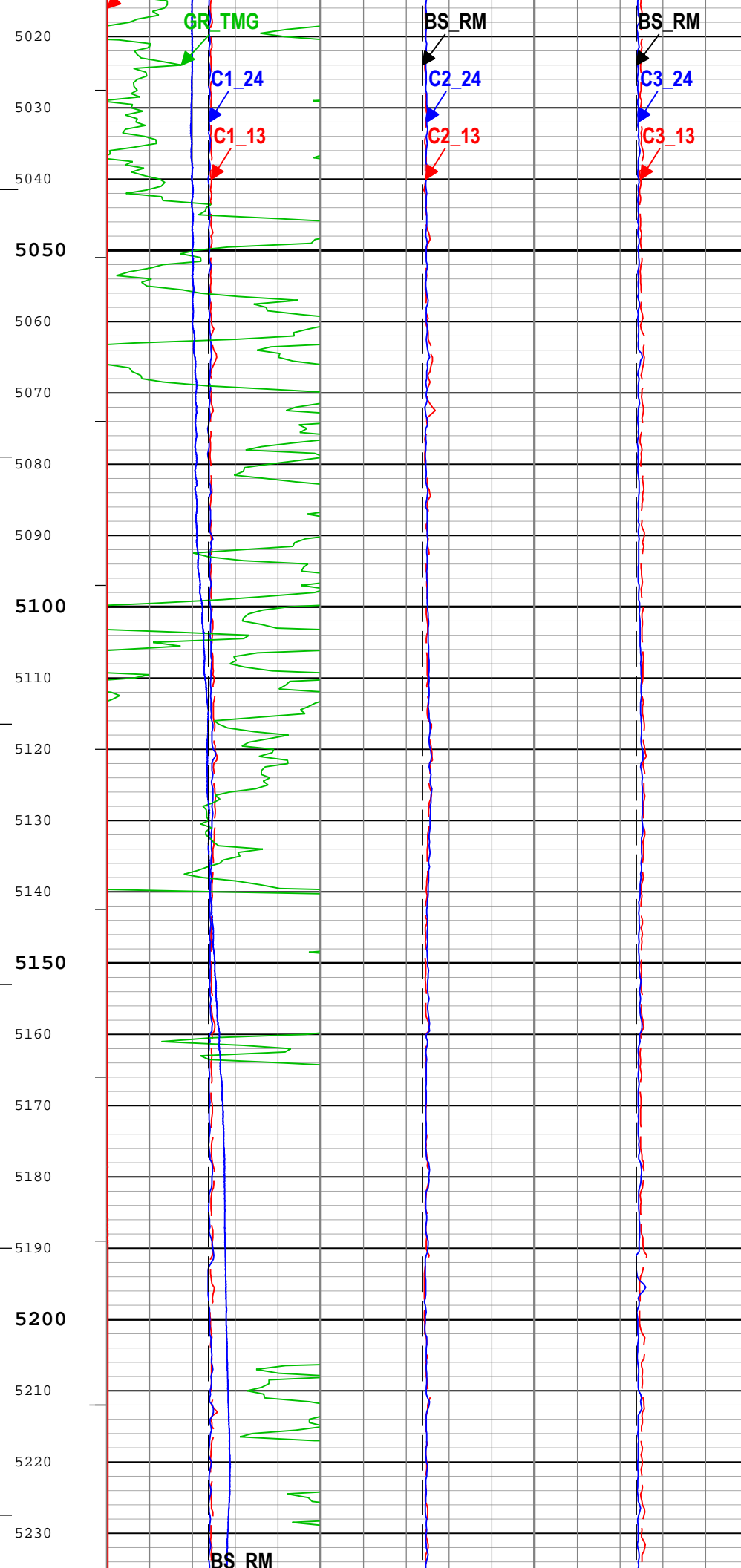




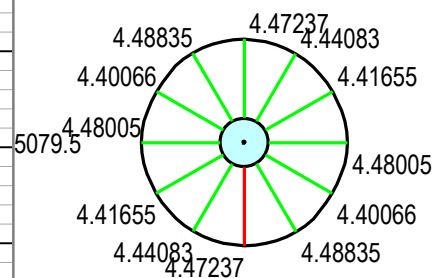
BS_RM

TBEI_RB

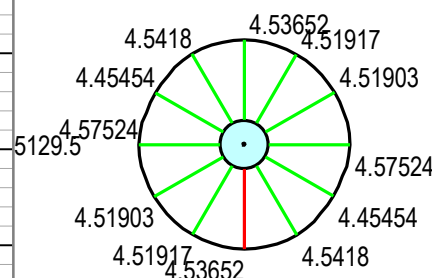
TBEI_DEVI



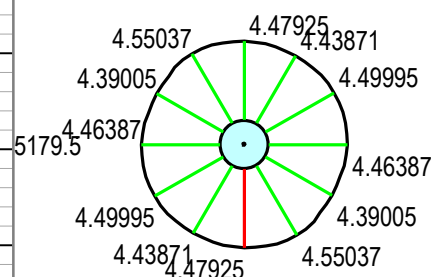
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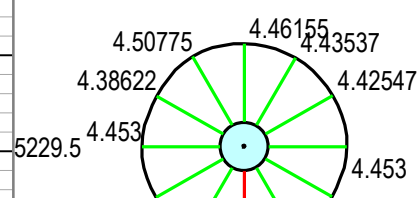
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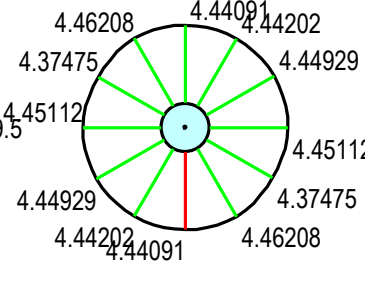
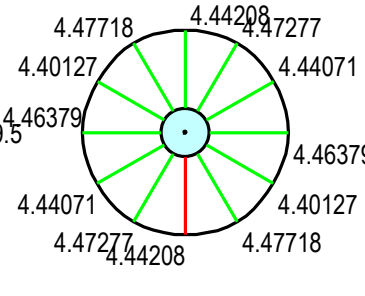
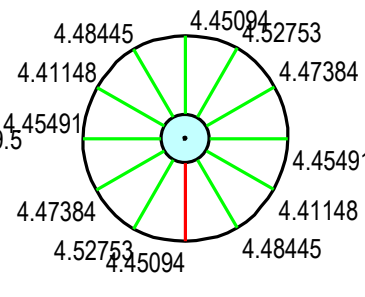
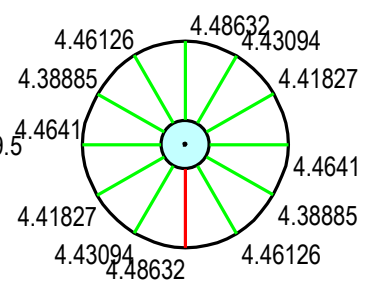
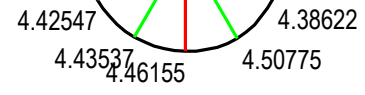
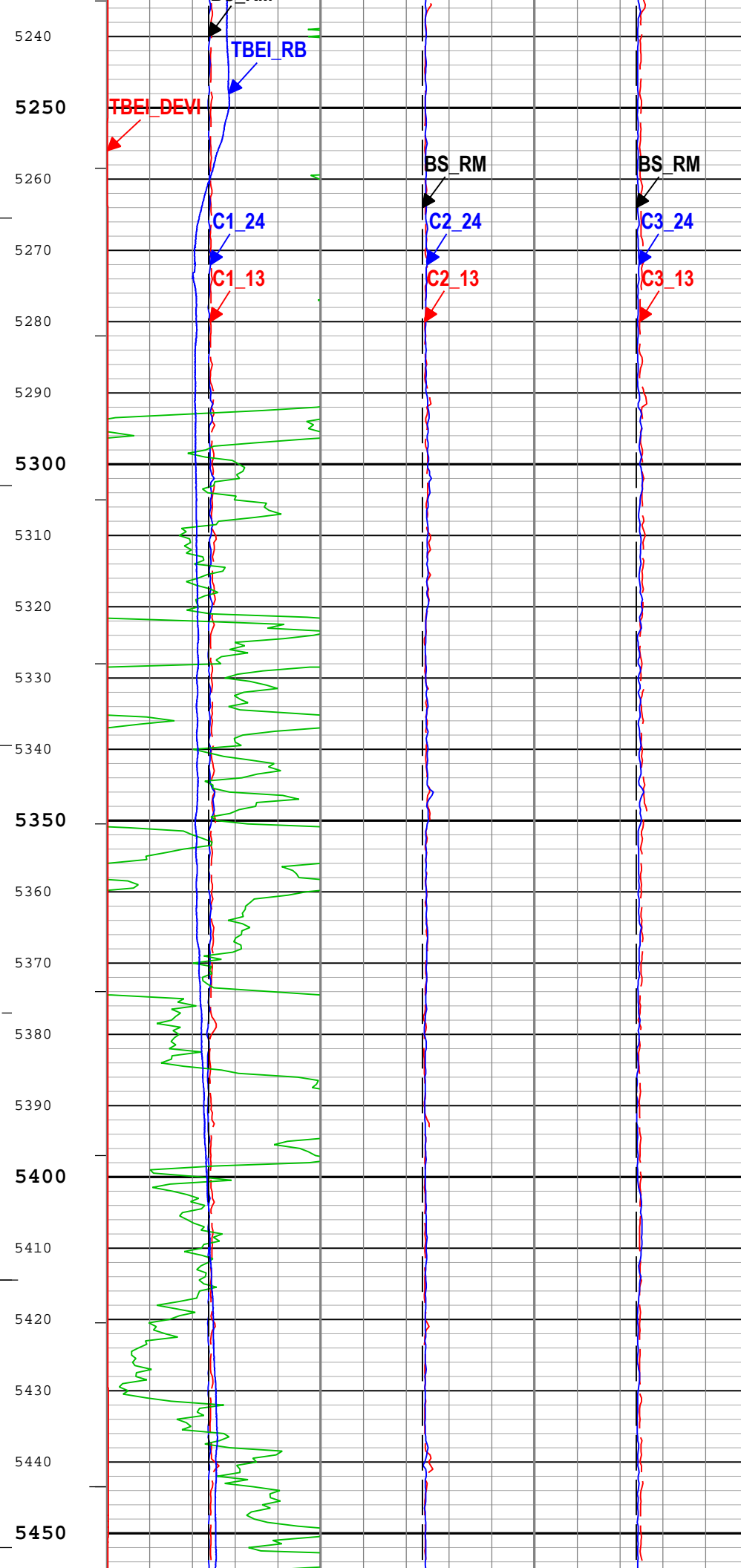
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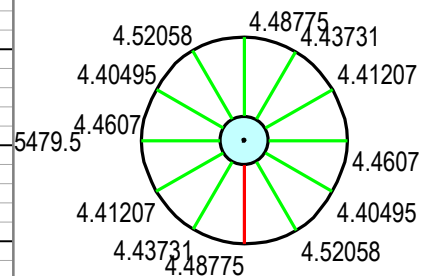
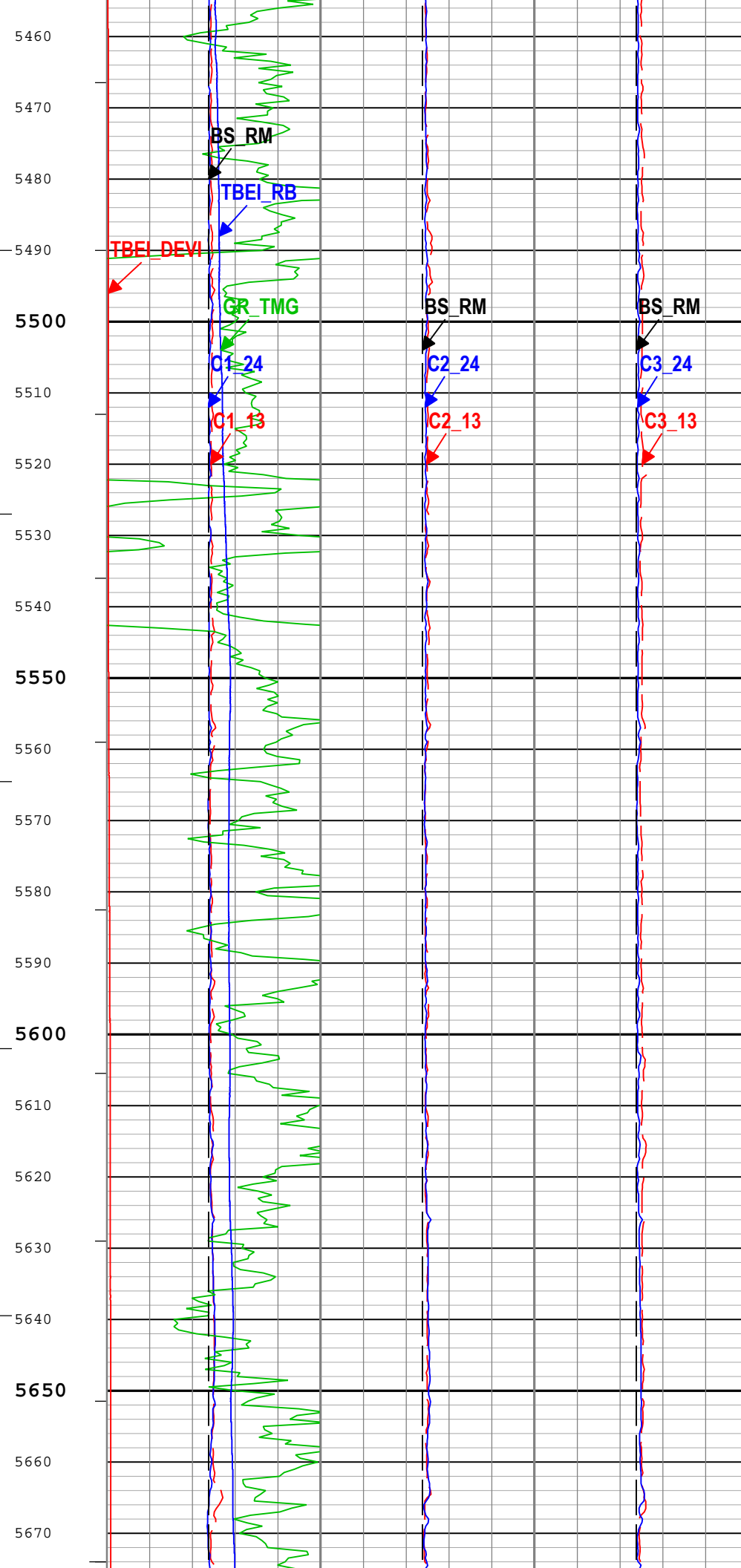


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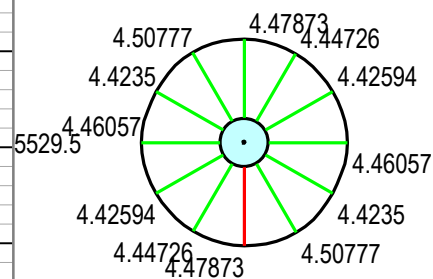
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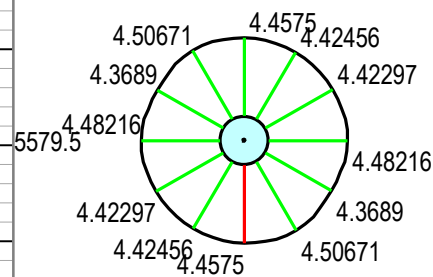
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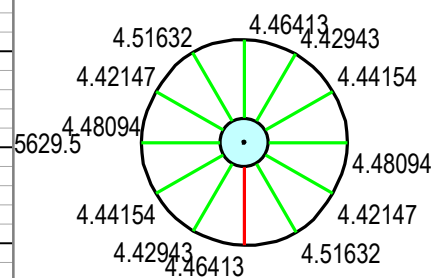
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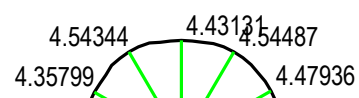
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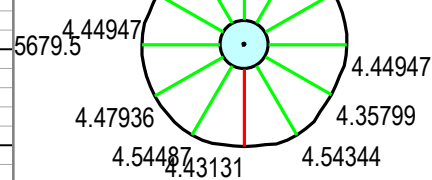
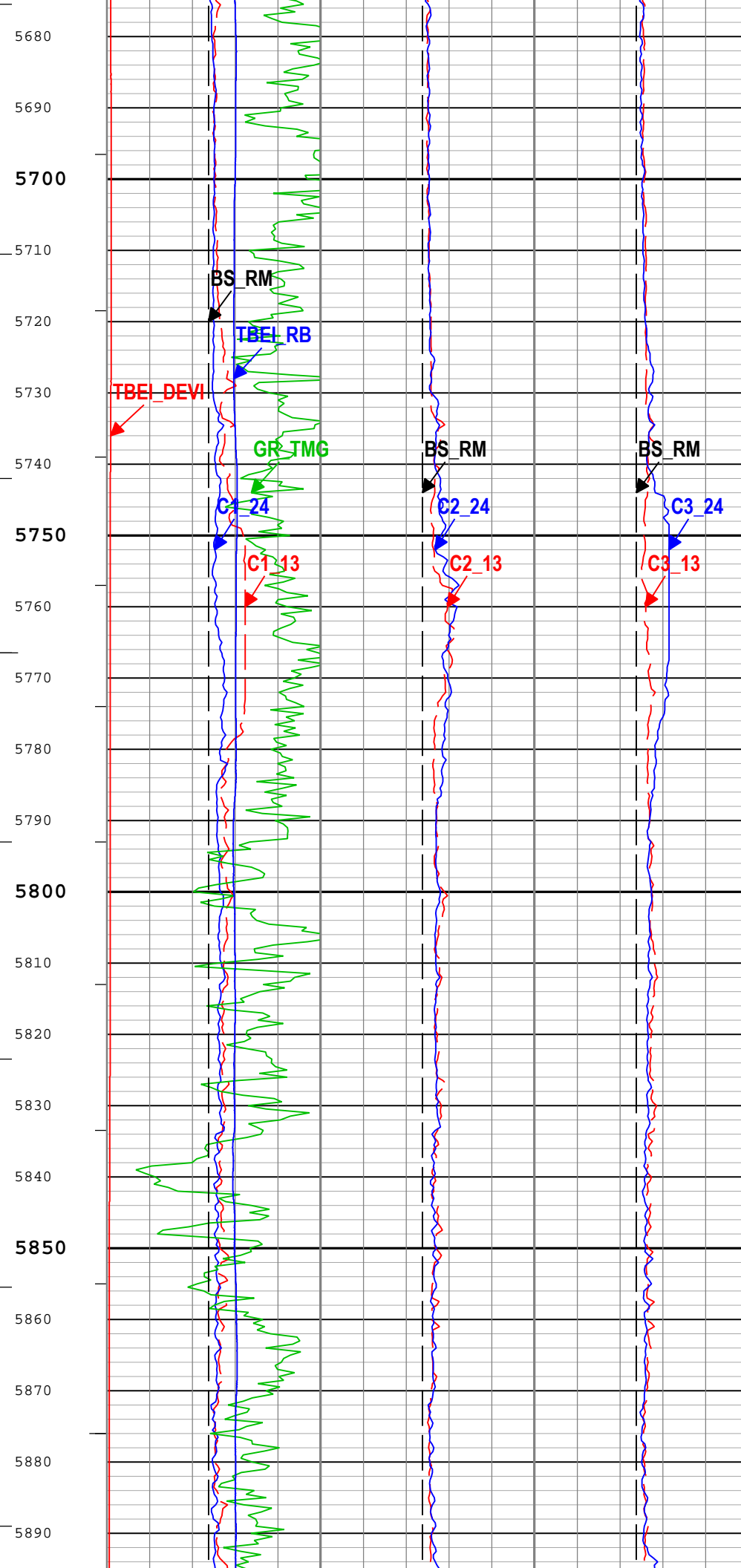


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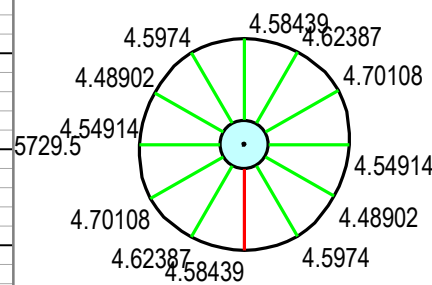


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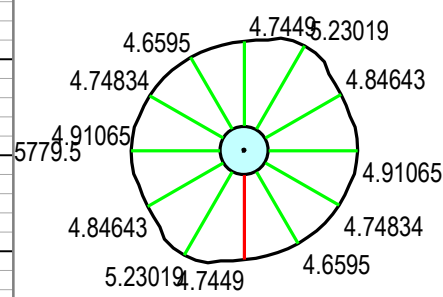




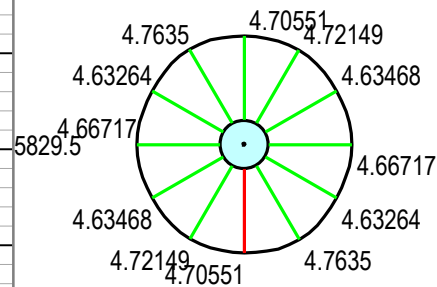
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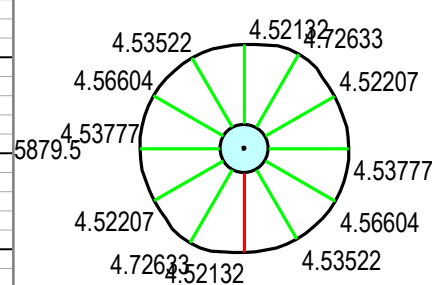
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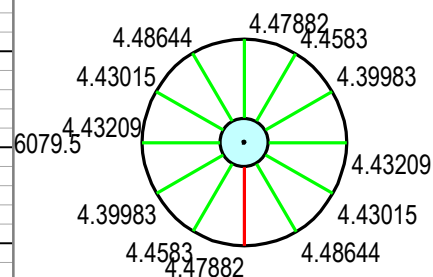
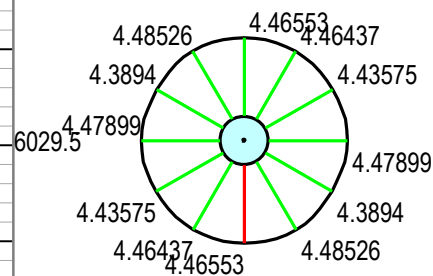
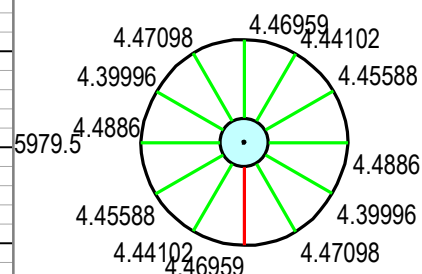
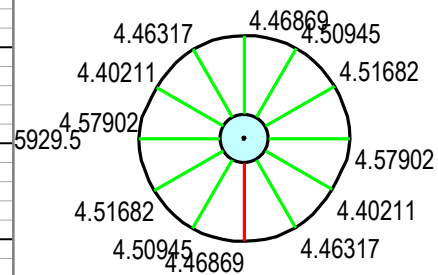
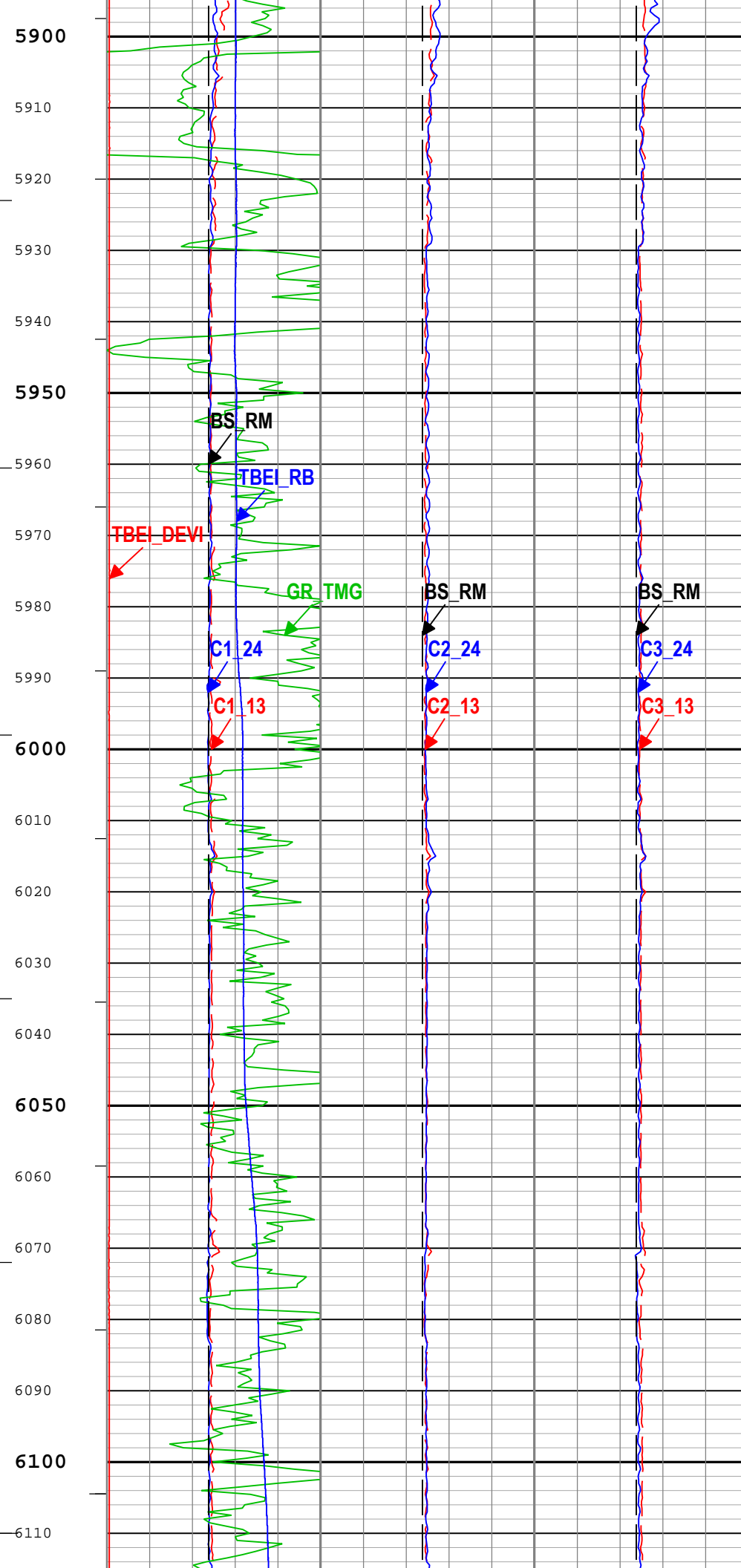
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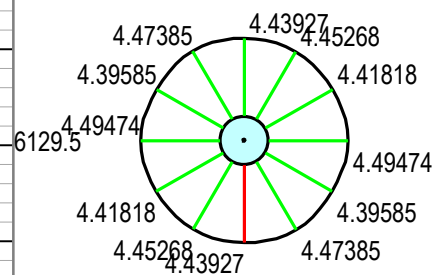
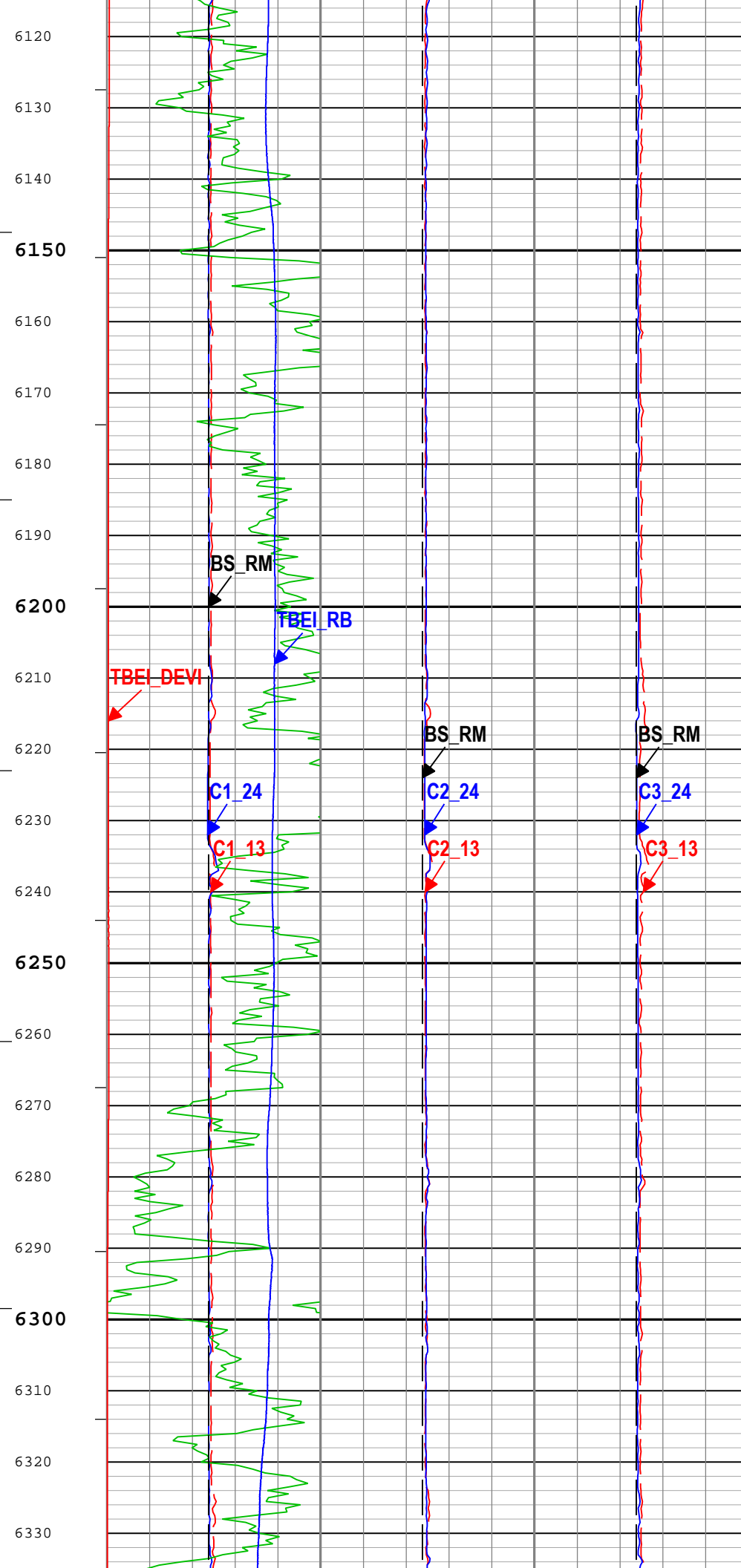


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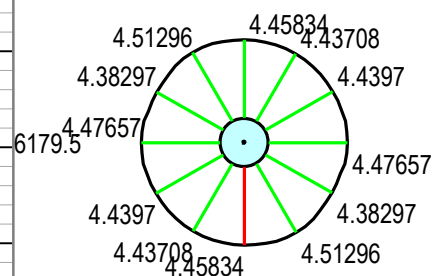


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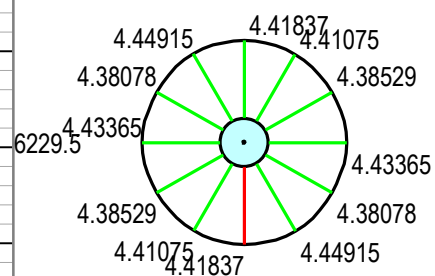




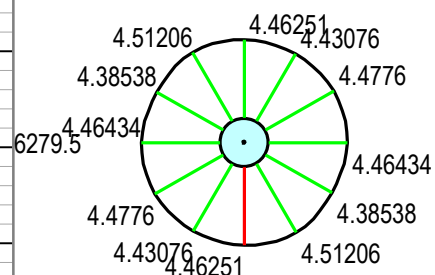
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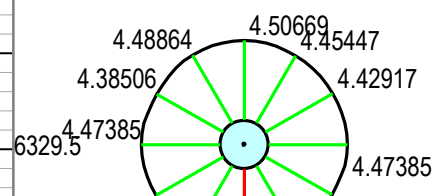
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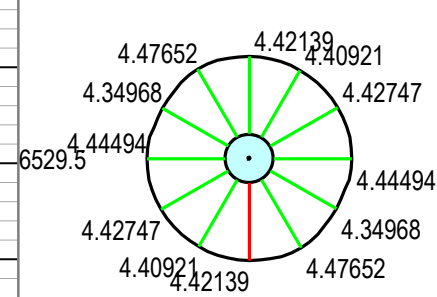
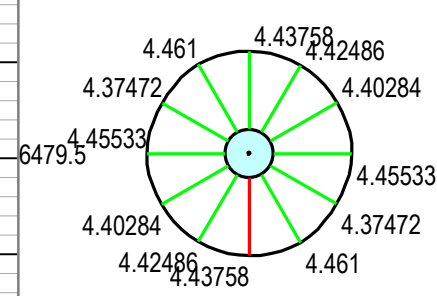
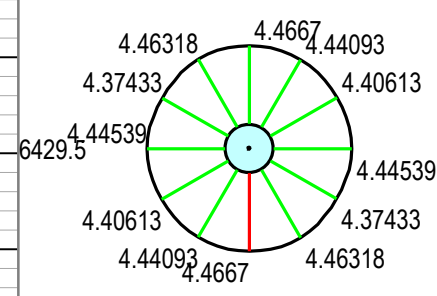
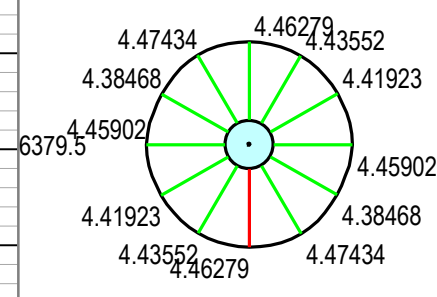
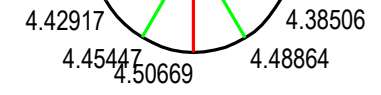
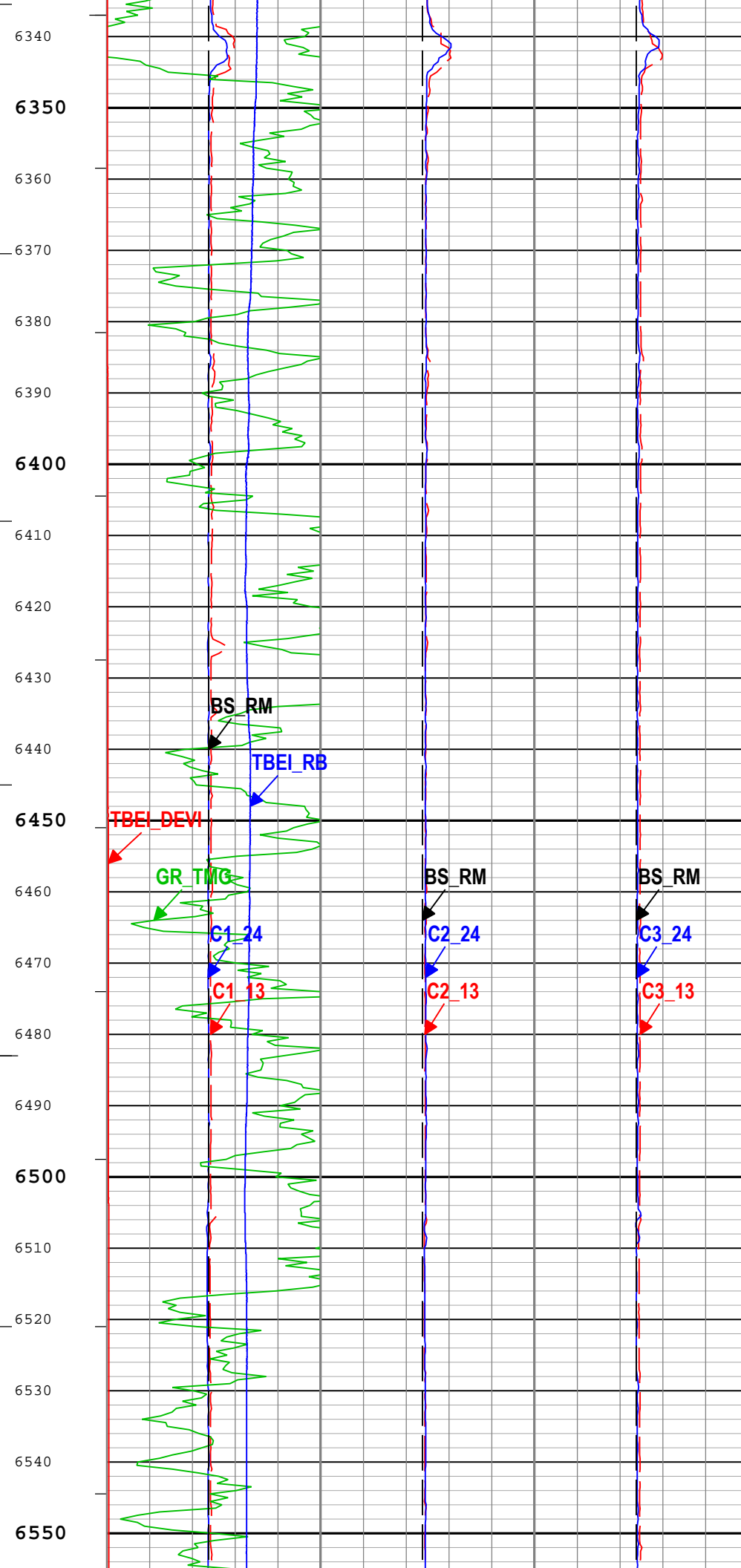
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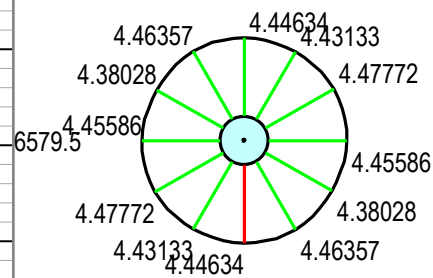
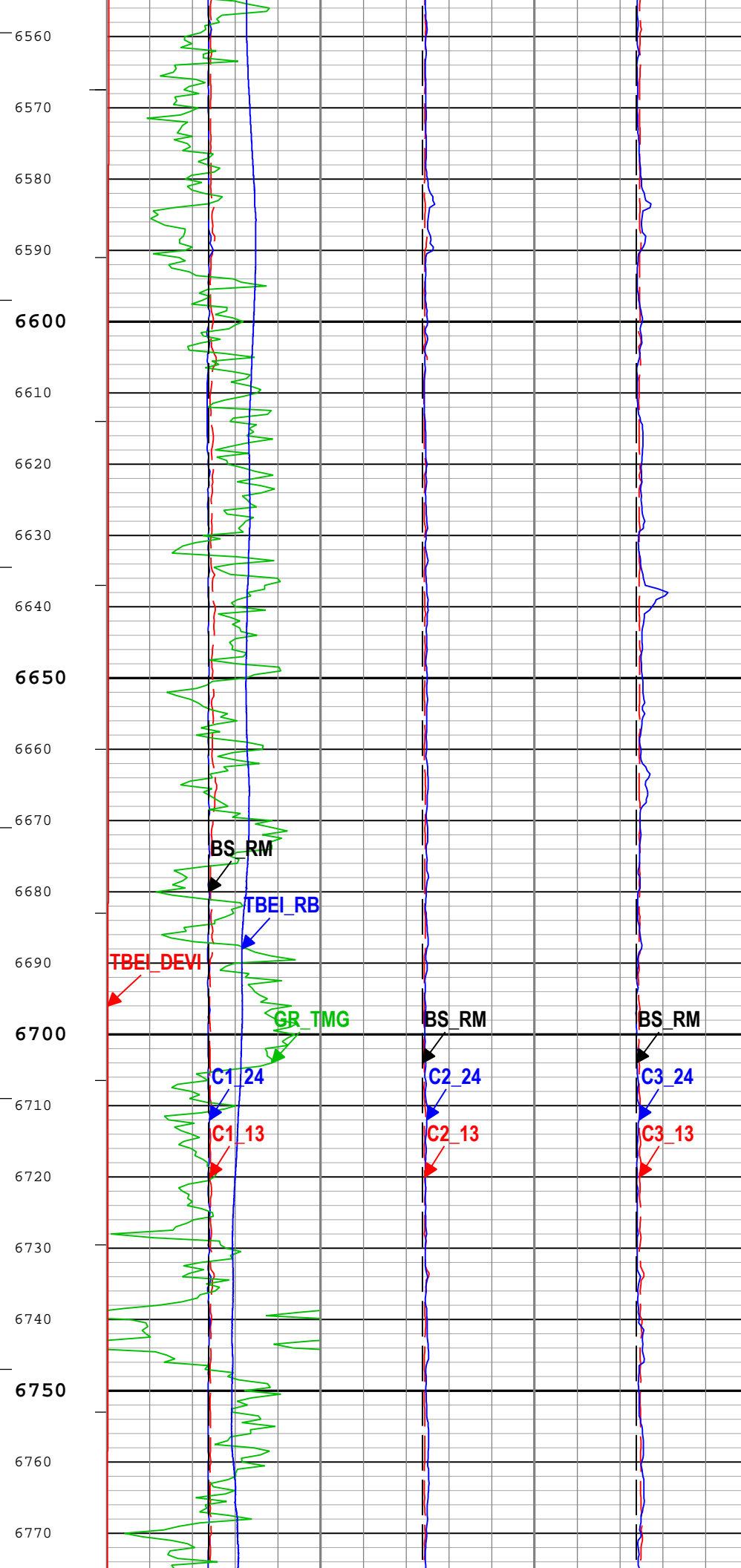


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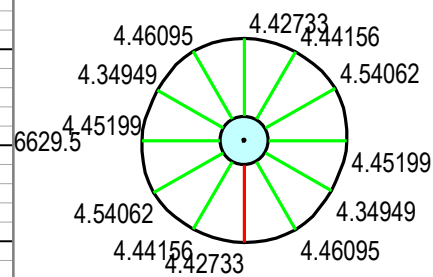
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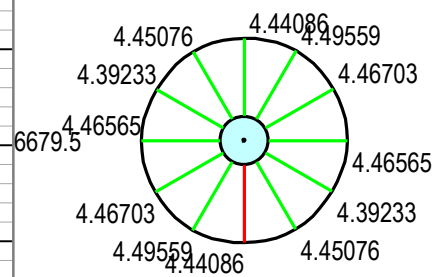
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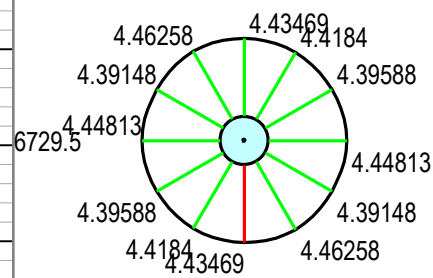
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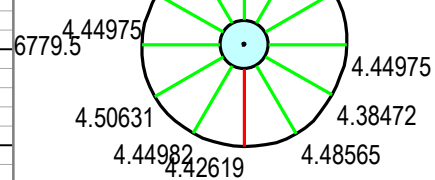
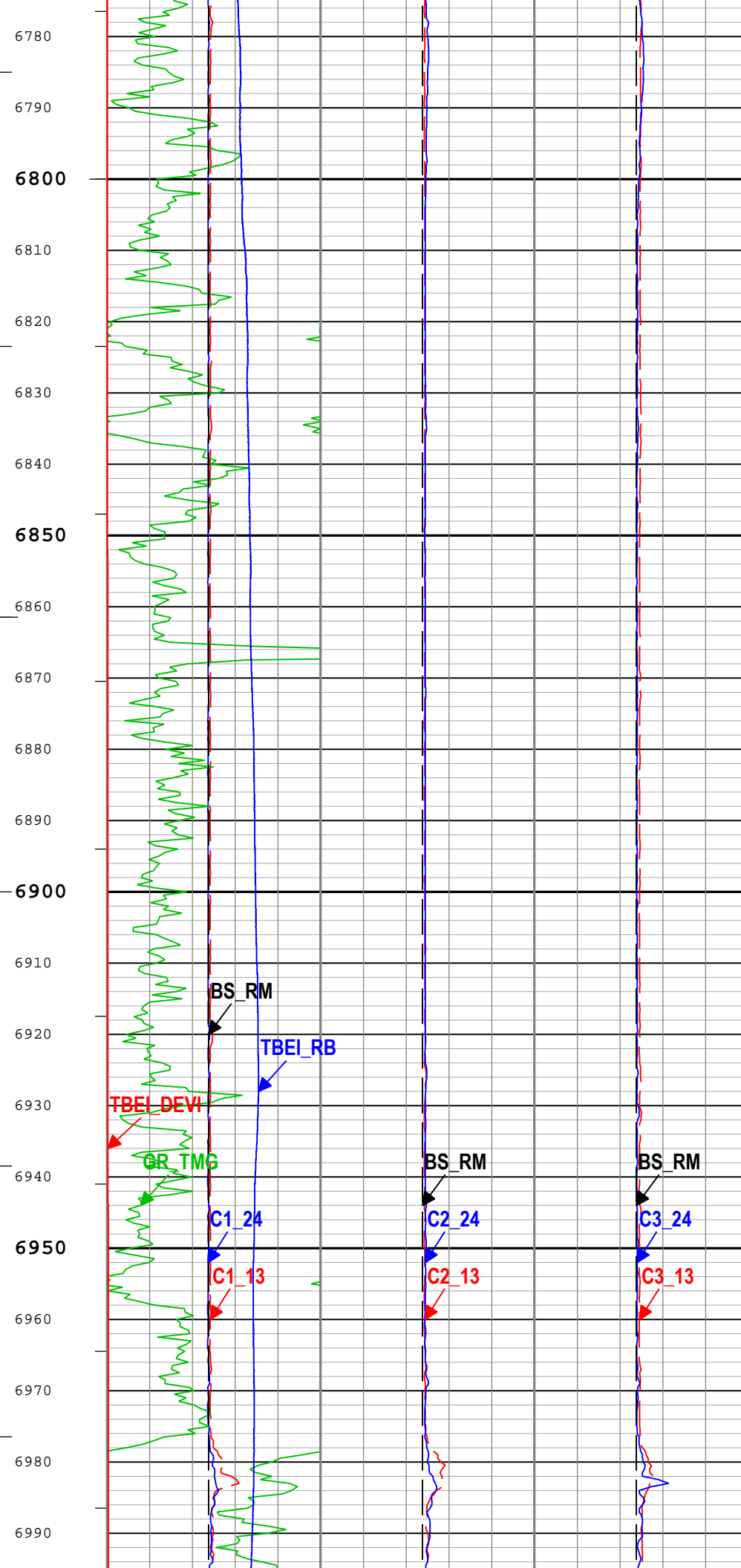


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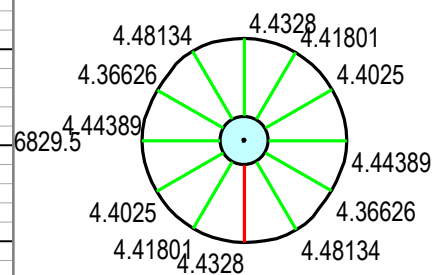


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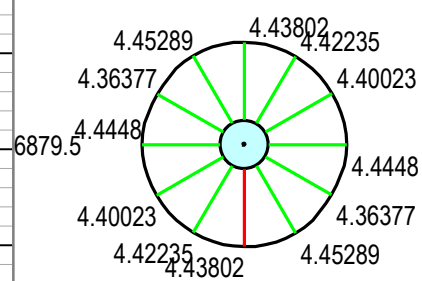




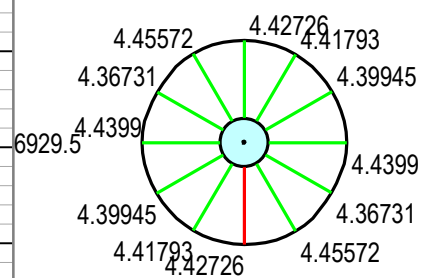
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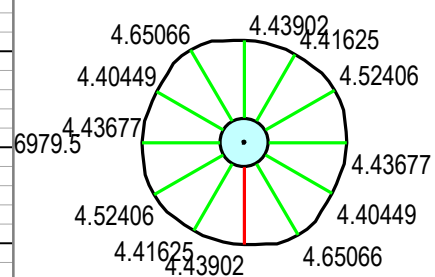
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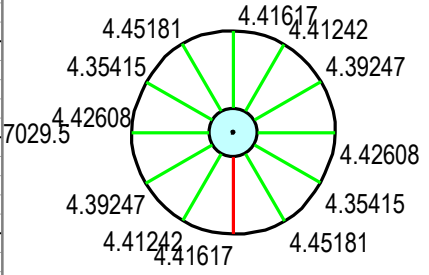
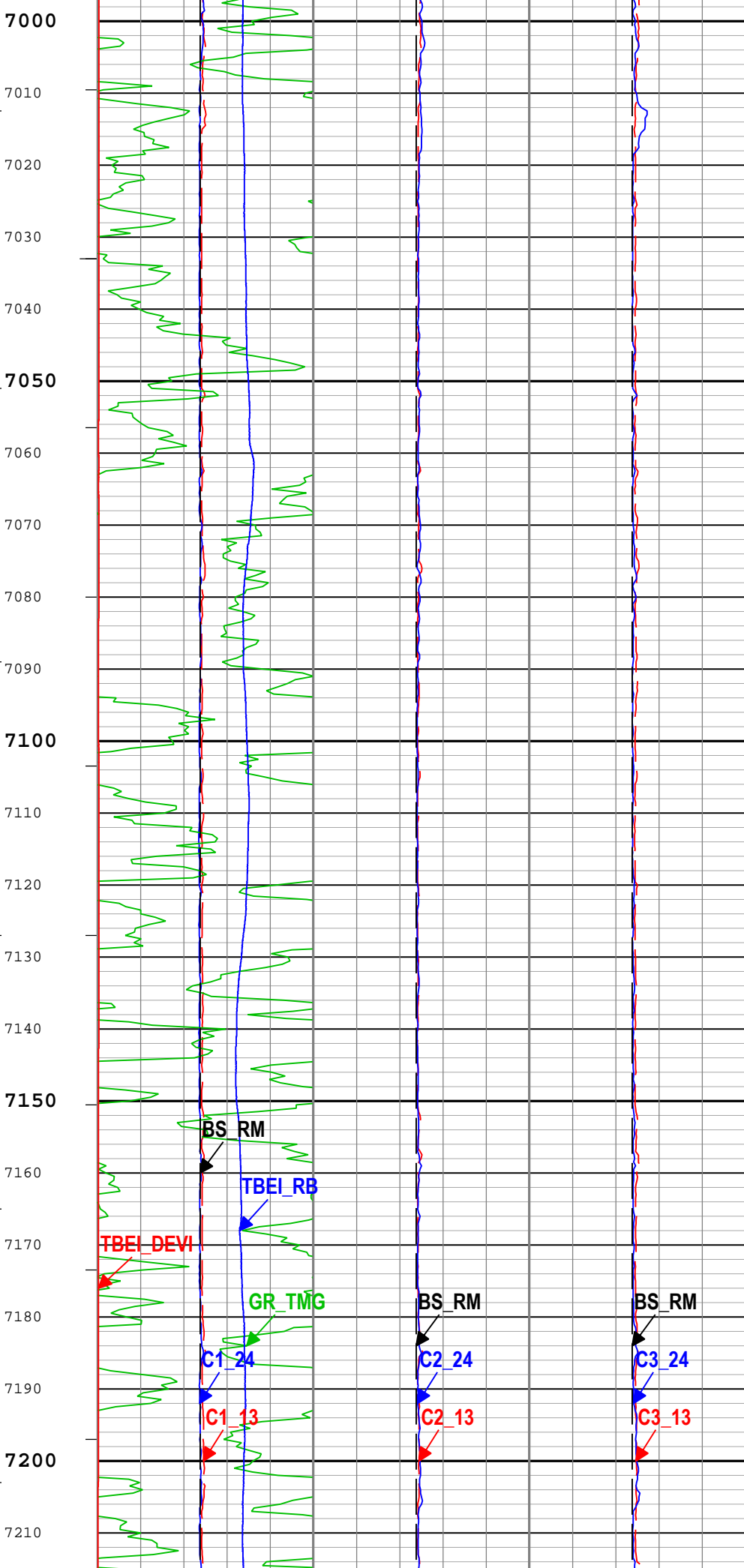
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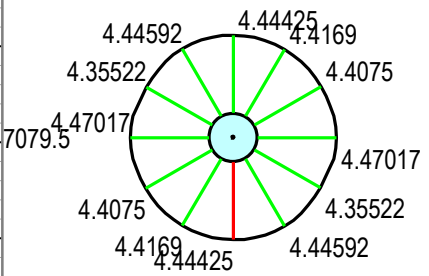
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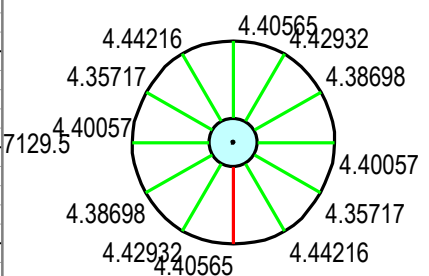
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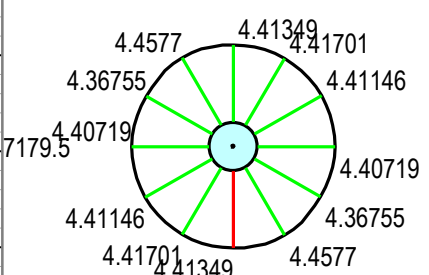
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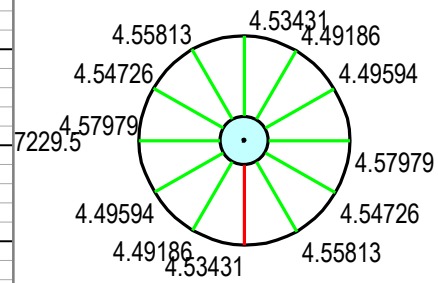
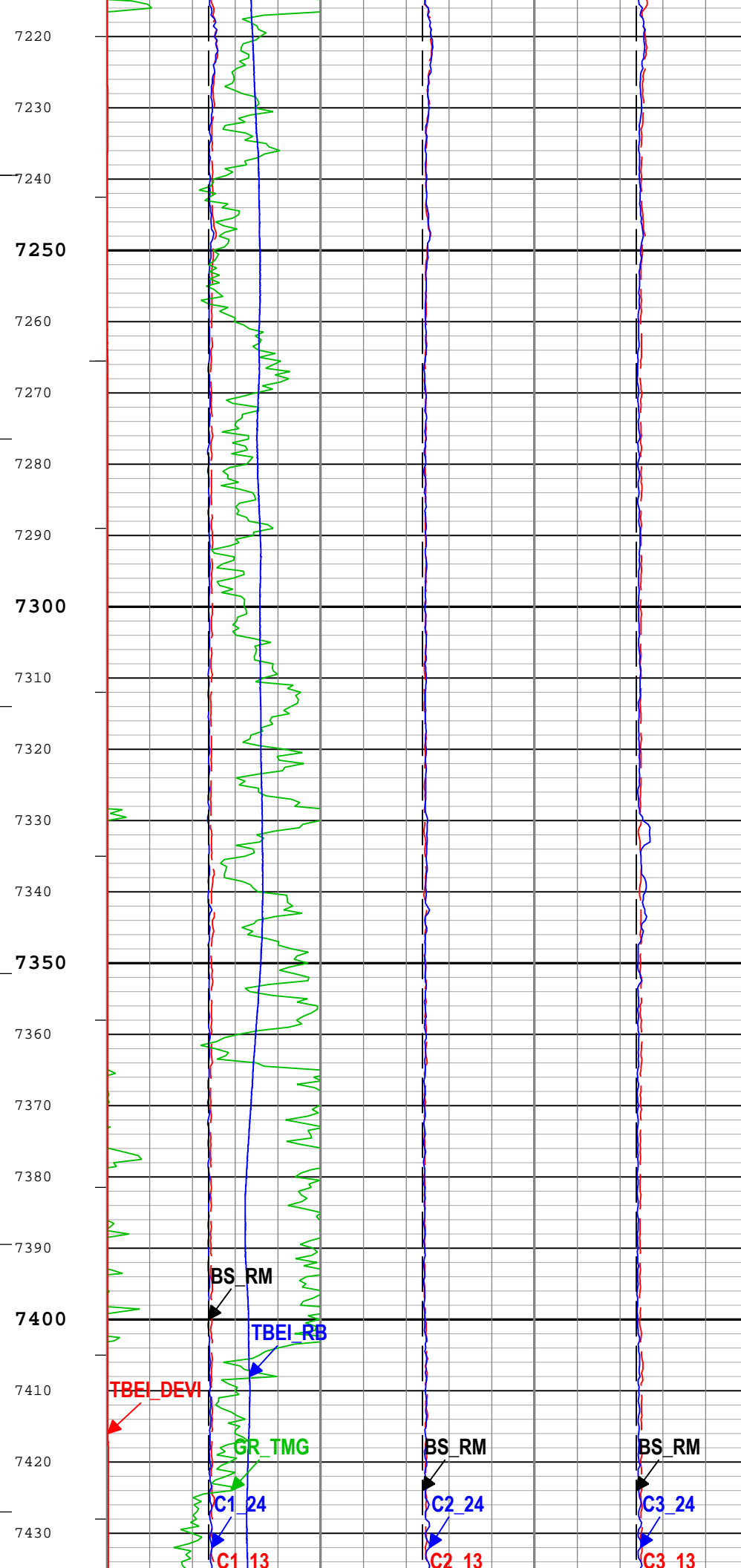
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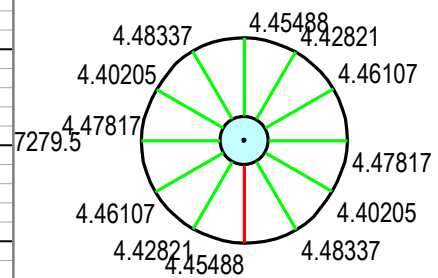
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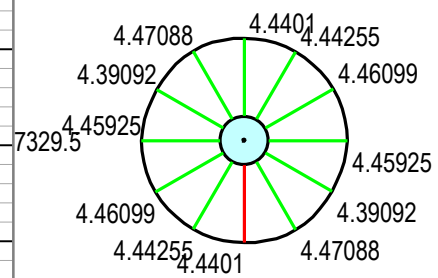
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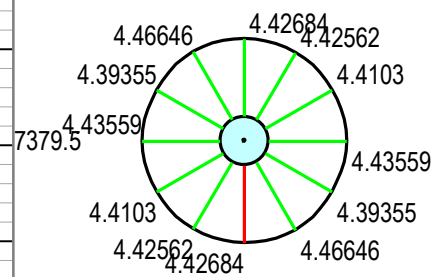
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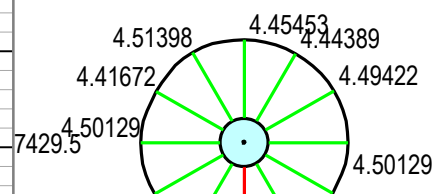
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BS_RM

TBEI_RB

TBEI_DEVI

GR_TM

C1_24

C1_13

BS_RM

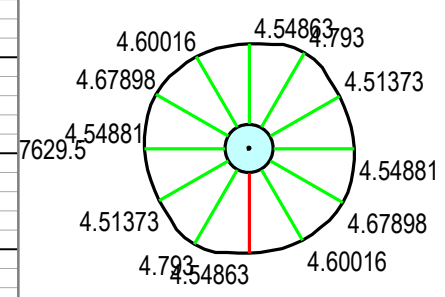
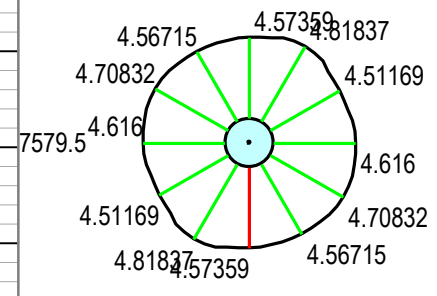
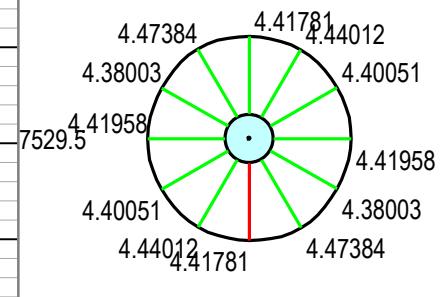
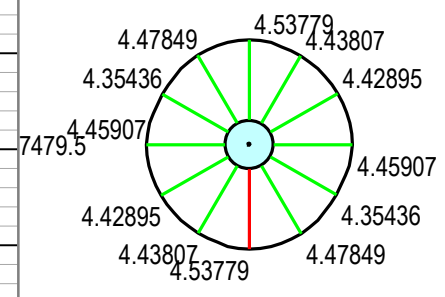
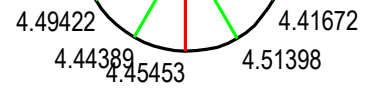
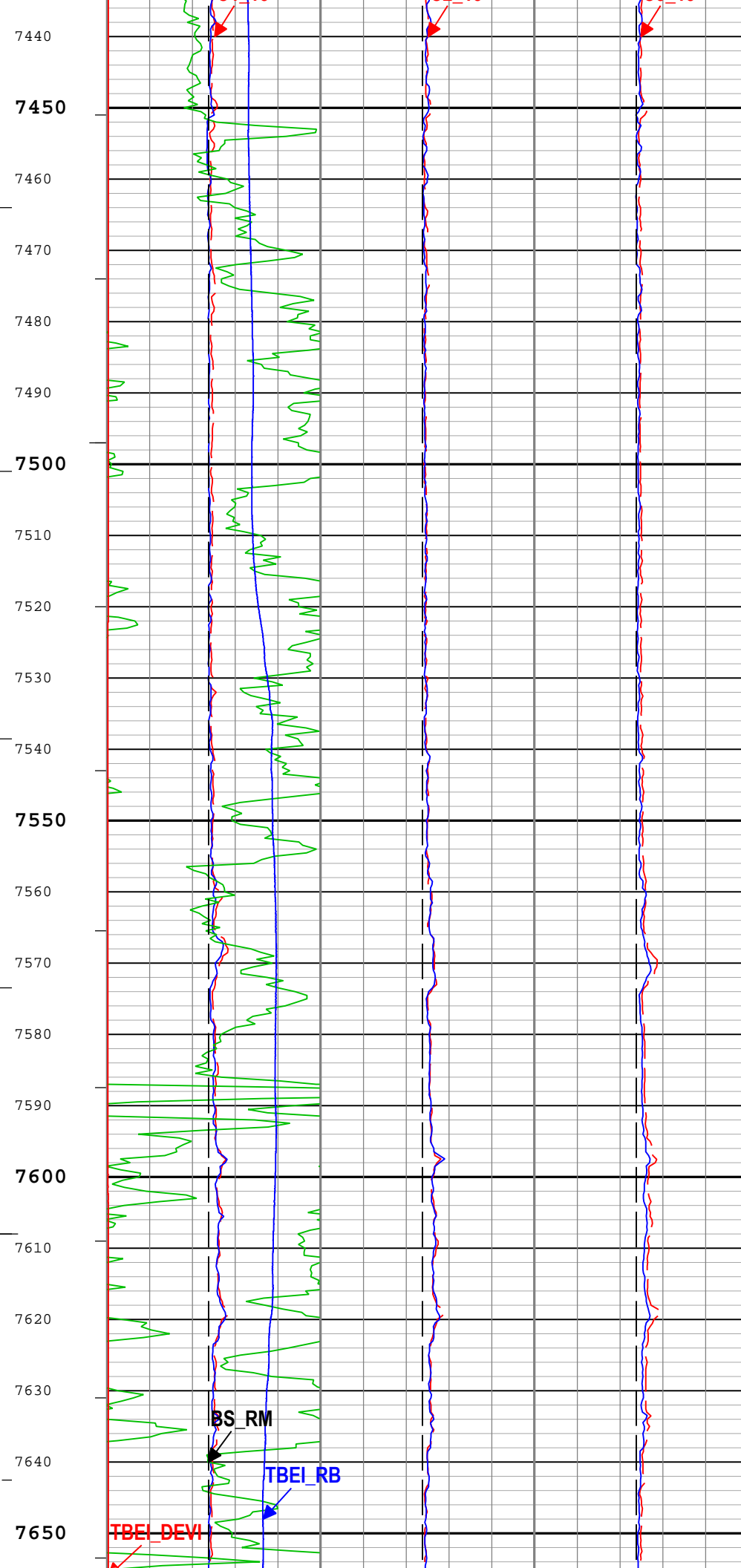
C2_24

C2_13

BS_RM

C3_24

C3_13

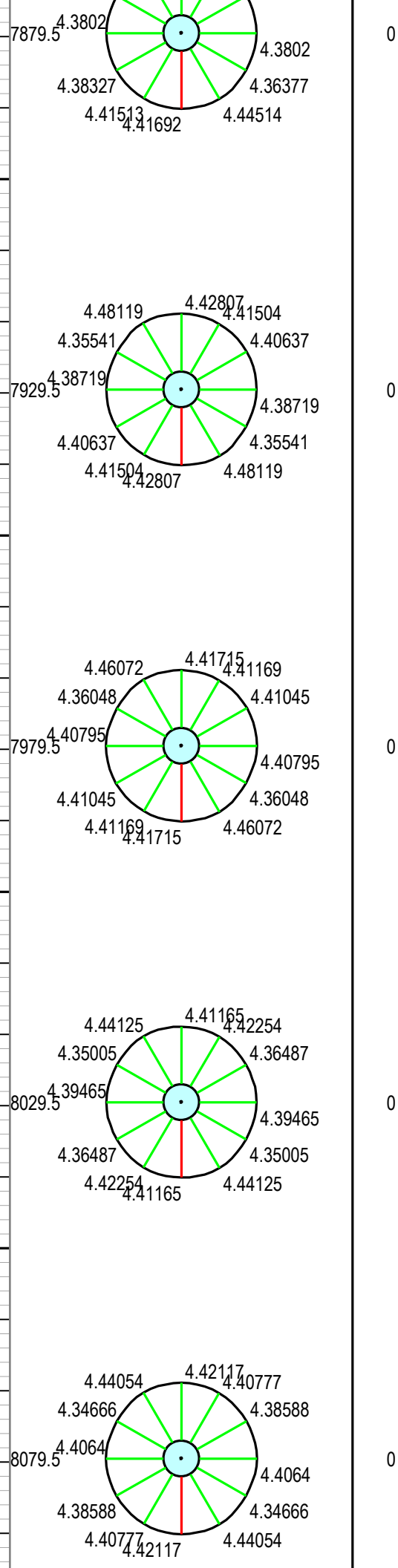
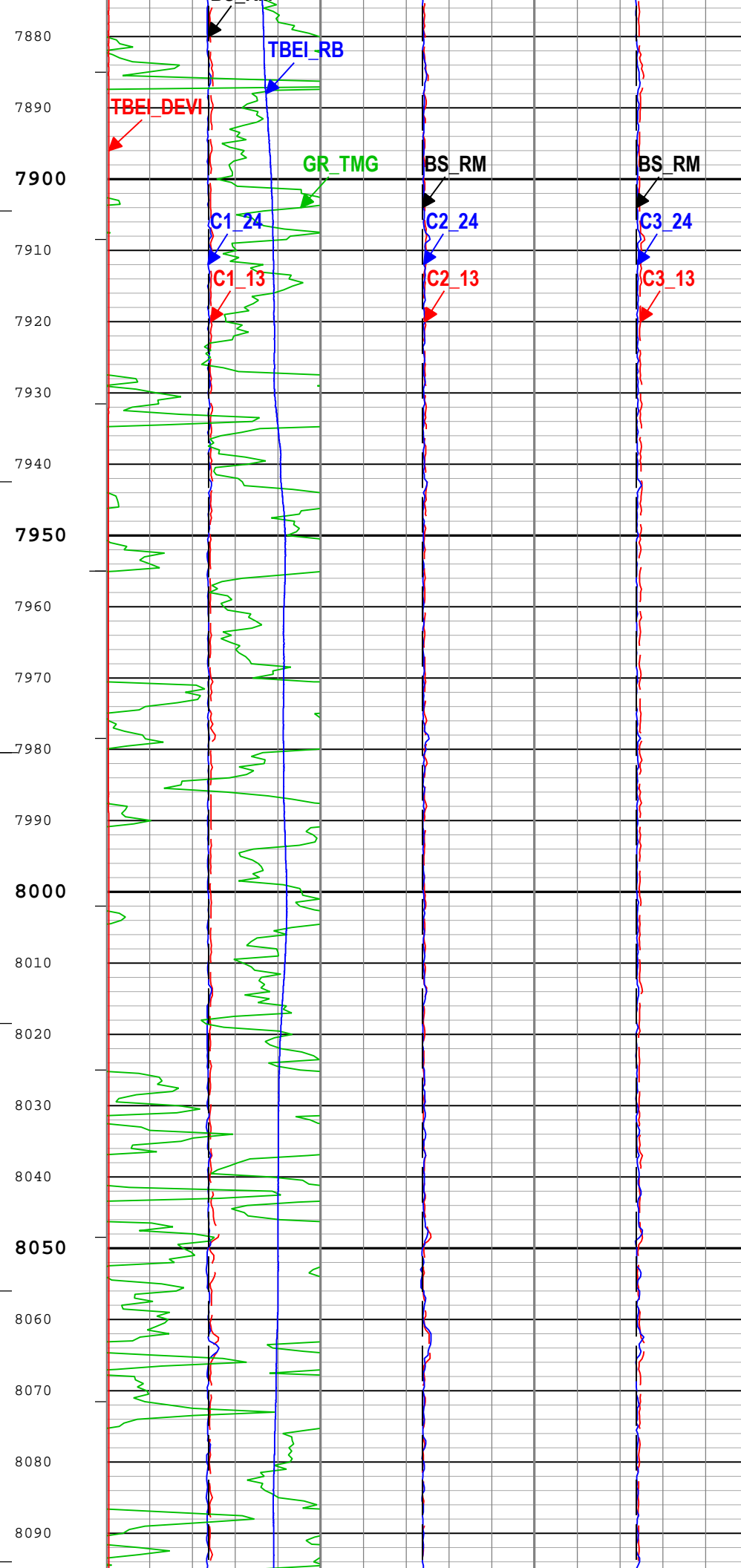


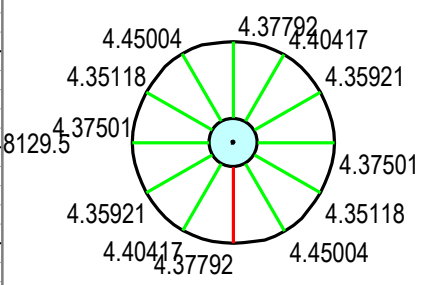
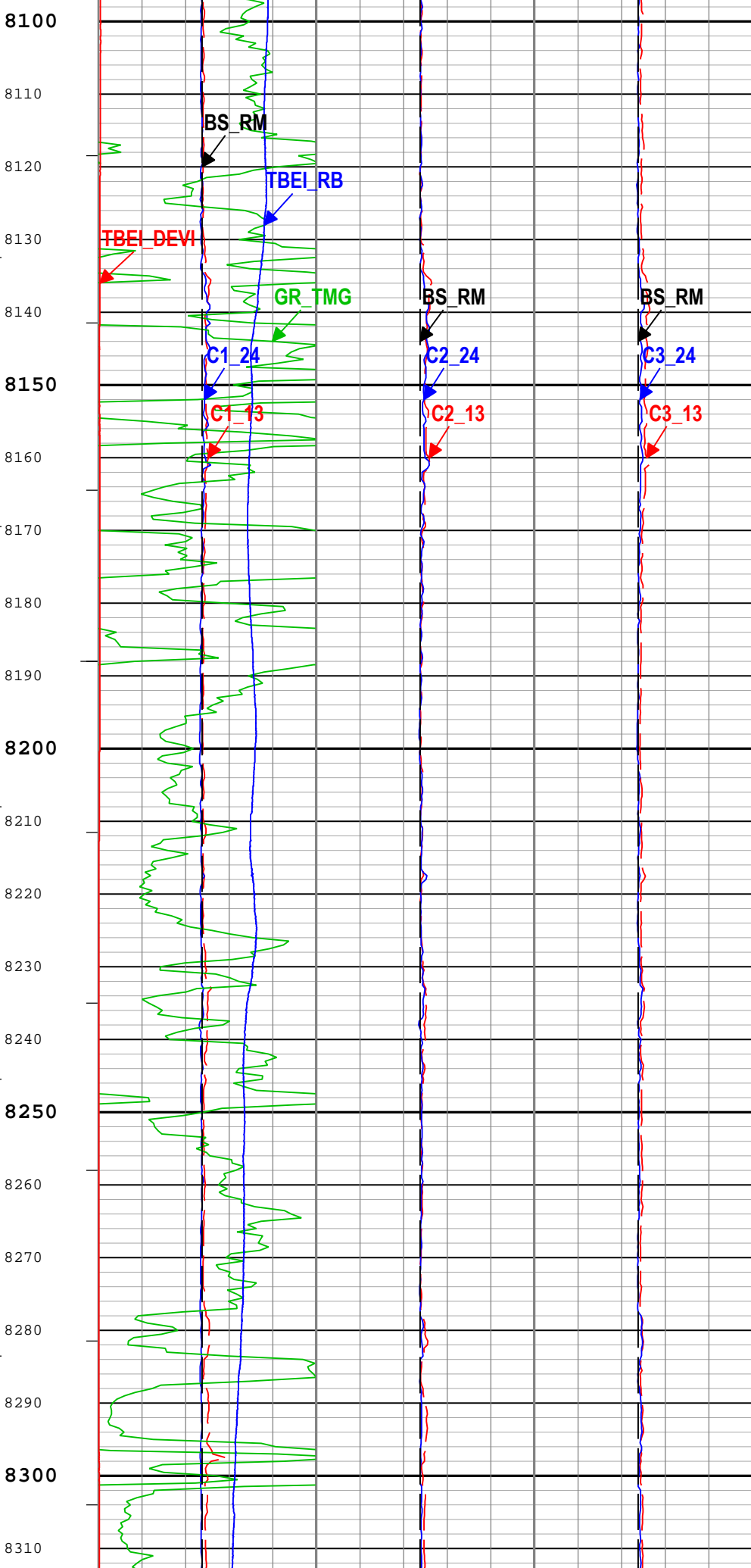
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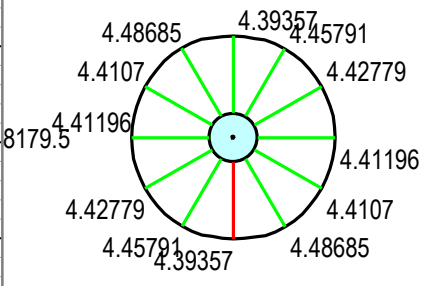
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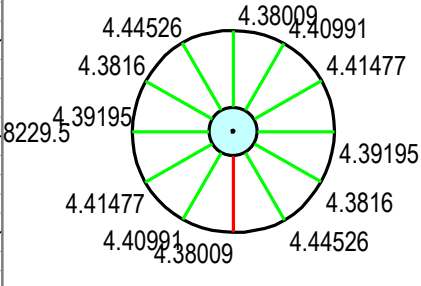




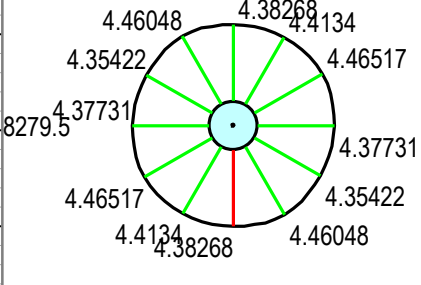
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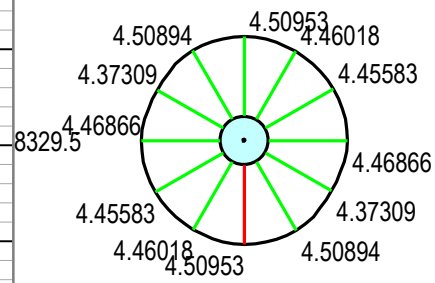
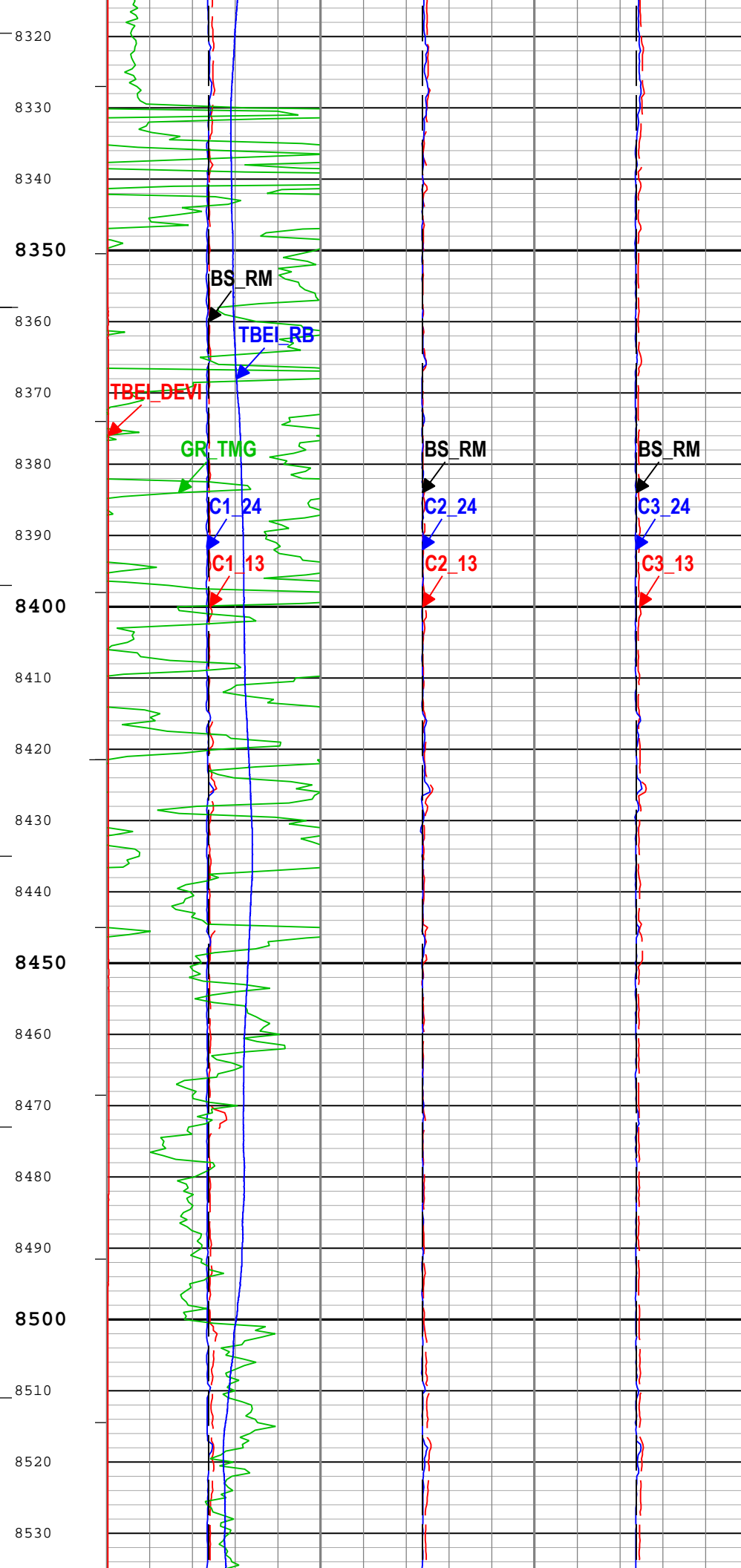
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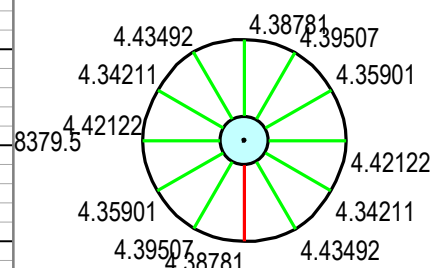
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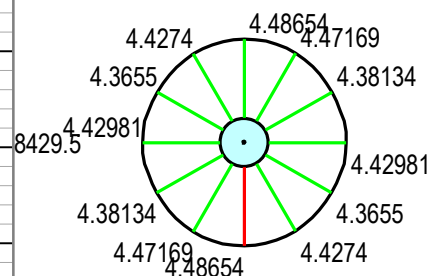
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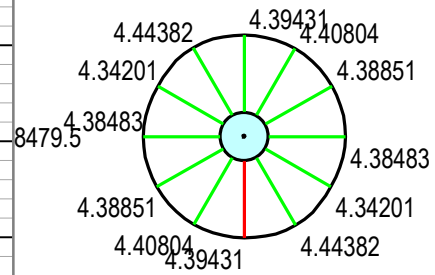
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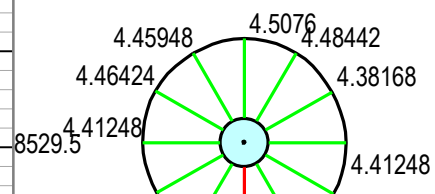
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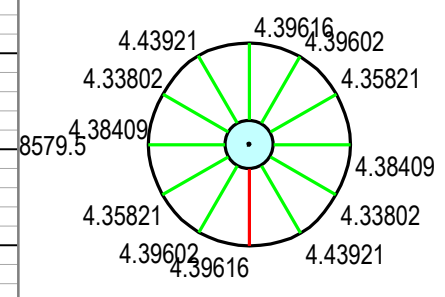
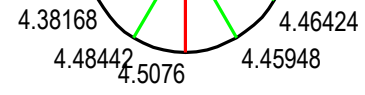
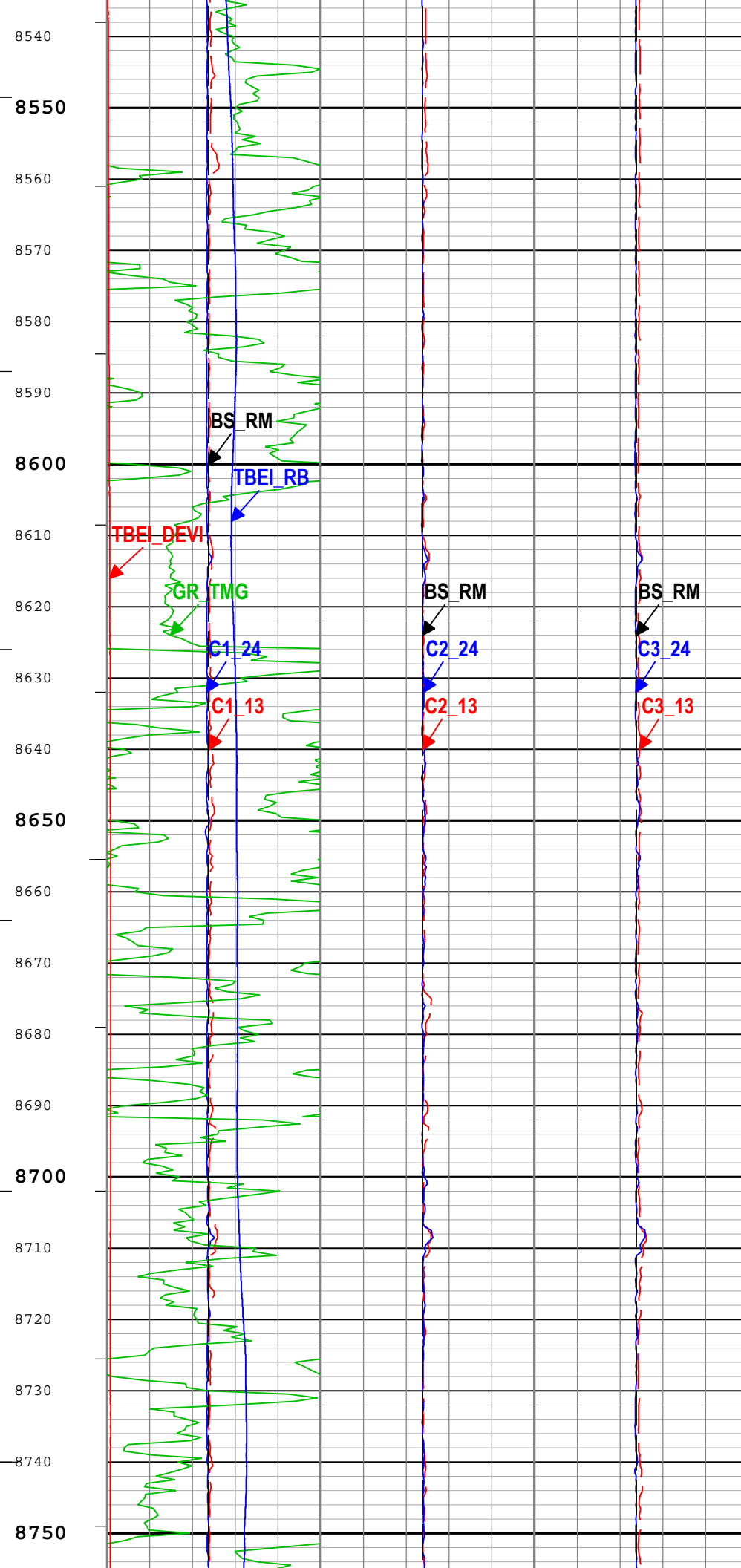
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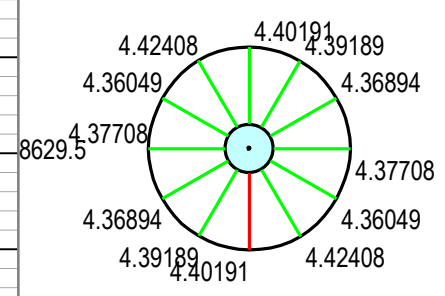
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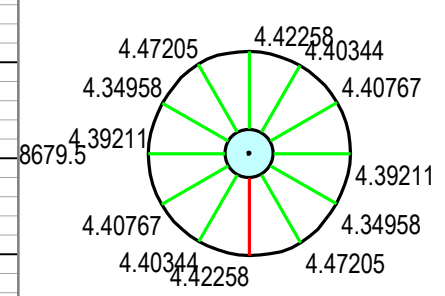
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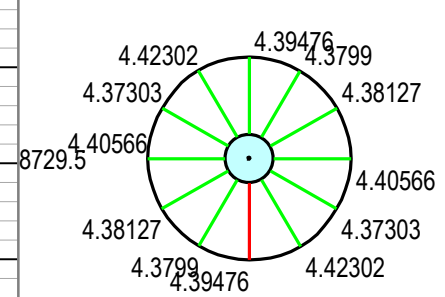
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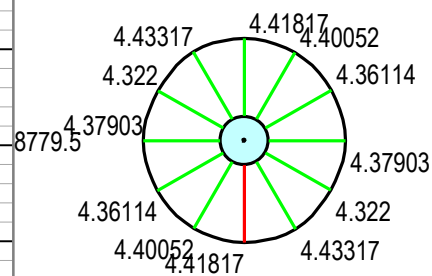
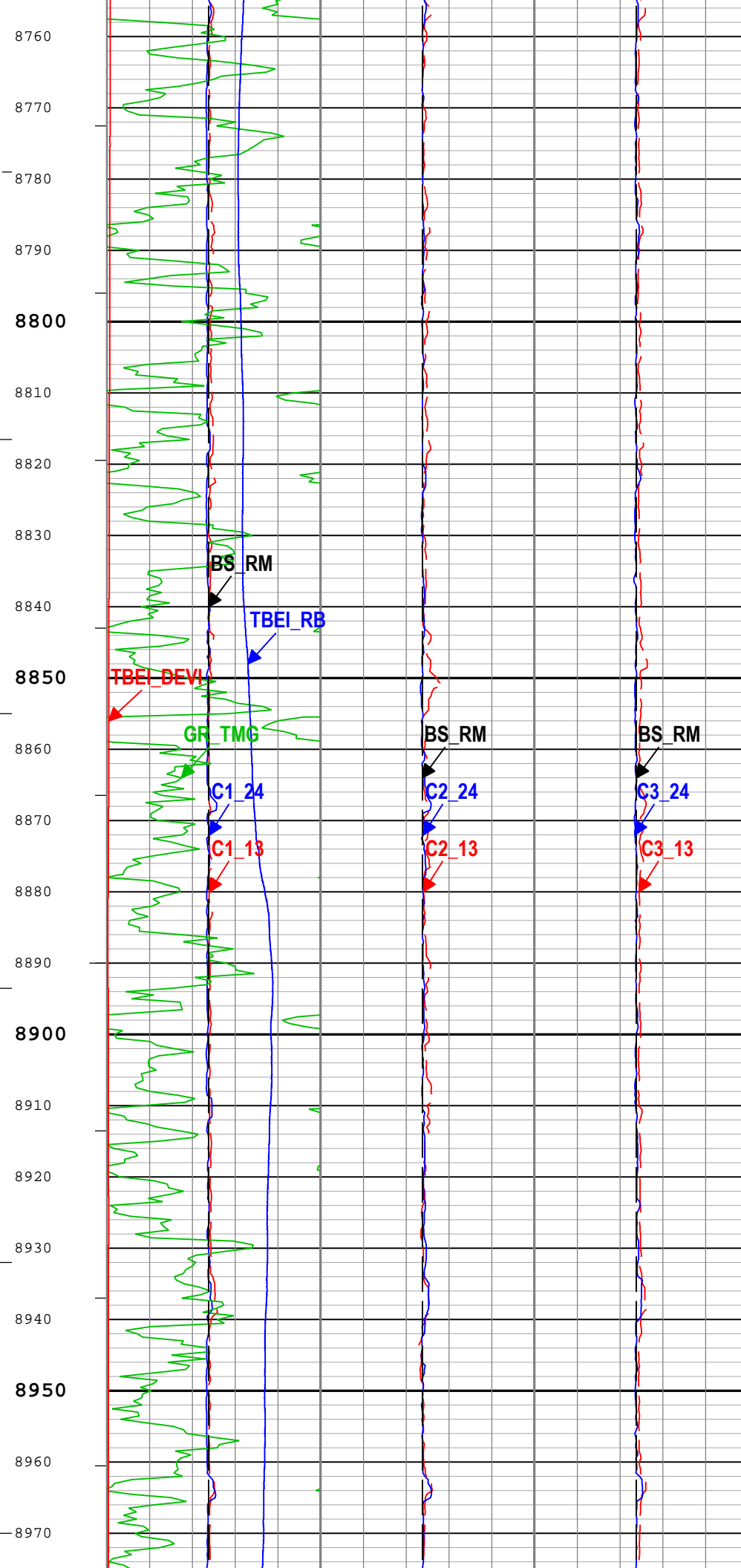
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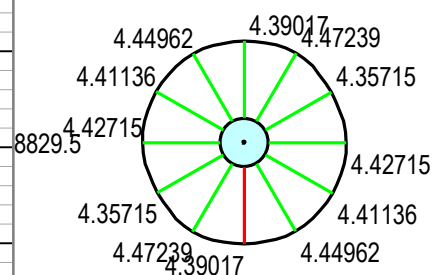
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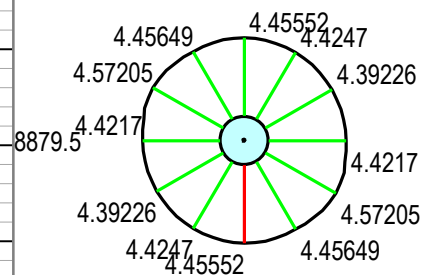
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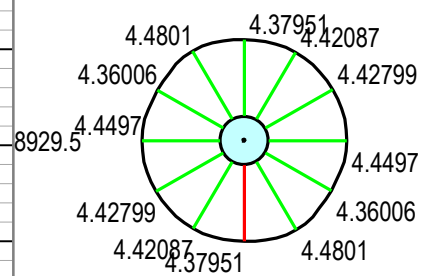
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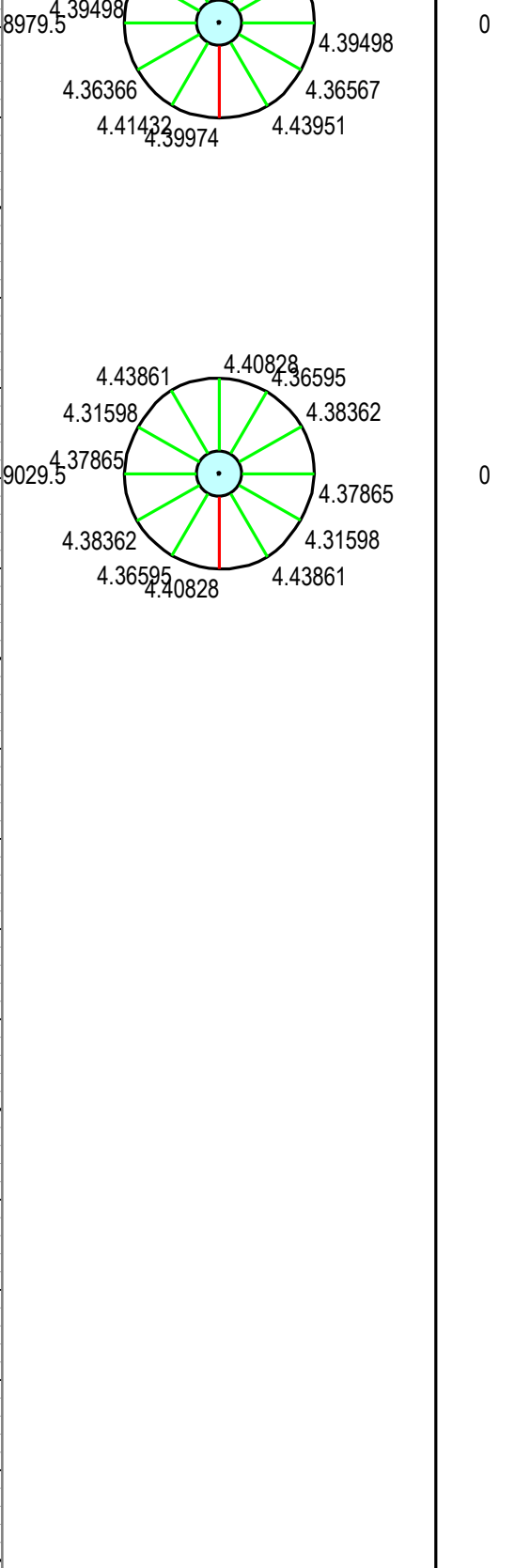
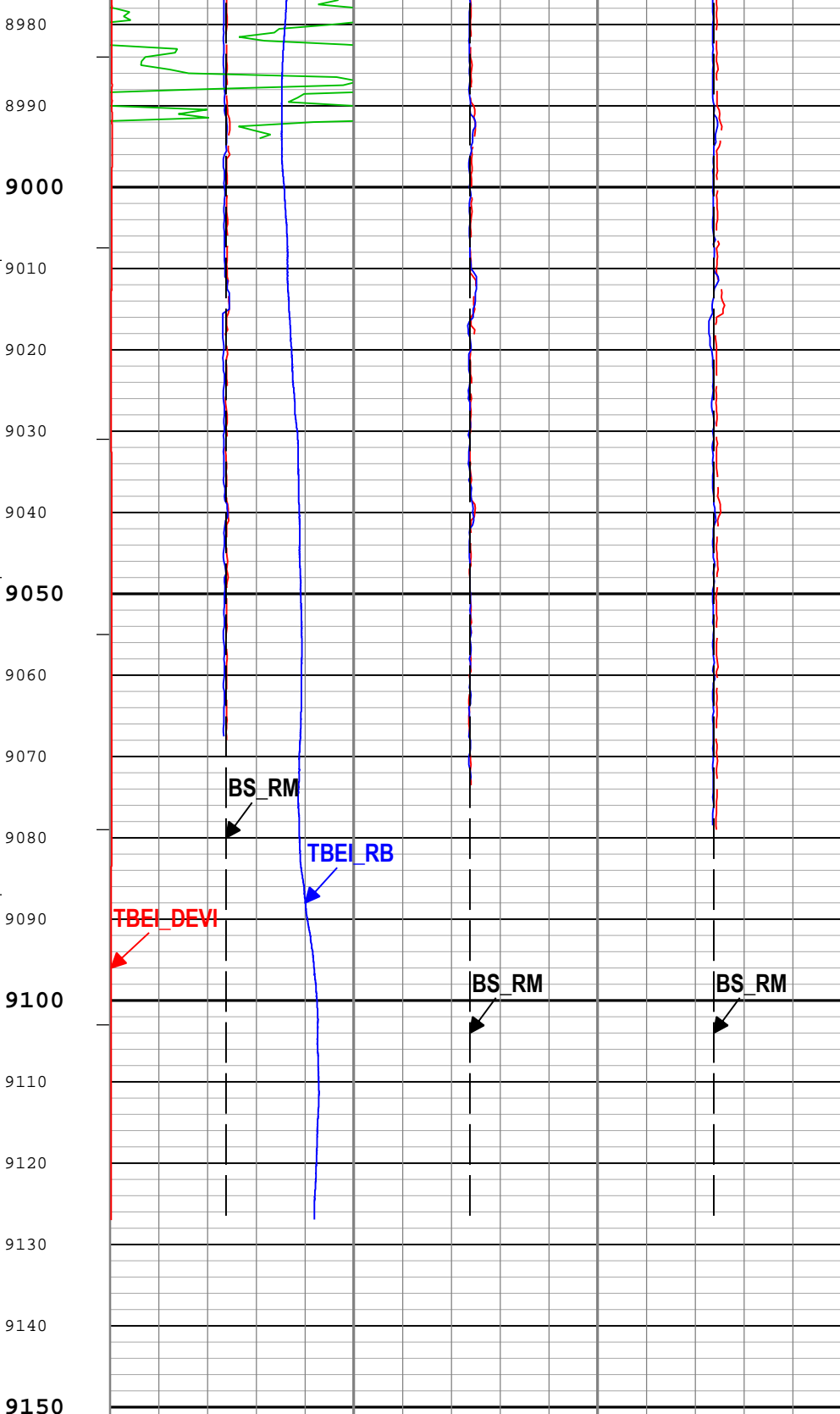


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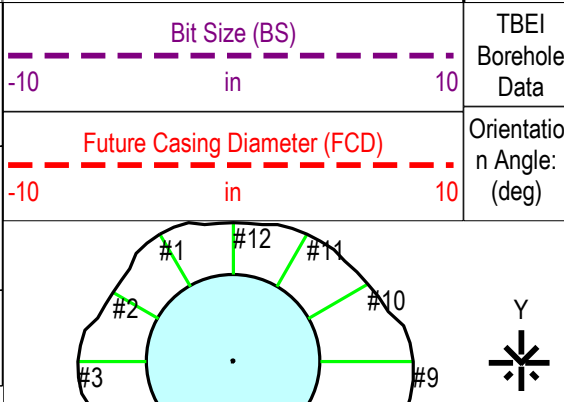


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Caliper Section 1, Pads 1-3 (C1_13) TBEI-A RM	Caliper Section 2, Pads 1-3 (C2_13) TBEI-A RM	Caliper Section 3, Pads 1-3 (C3_13) TBEI-A RM
4 in 14	4 in 14	4 in 14
Caliper Section 1, Pads 2-4 (C1_24) TBEI-A RM	Caliper Section 2, Pads 2-4 (C2_24) TBEI-A RM	Caliper Section 3, Pads 2-4 (C3_24) TBEI-A RM
4 in 14	4 in 14	4 in 14
Calibrated Gamma Ray (GR_TMG) TMG-A RM	Bit Size (BS_RM) RM	Bit Size (BS_RM) RM
0 gAPI 150	4 in 14	4 in 14



TBEI Hole Deviation at TZ
(TBEI_DEVI) TBEI-A RM

0deg360

TBEI Relative Bearing at TZ
(TBEI_RB) TBEI-A RM

0deg360

Bit Size (BS_RM) RM

4in14

ICV_RM - Integrated Cement Volume every 100.00 (ft3)

ICV_RM - Integrated Cement Volume every 10.00 (ft3)

IHV_RM - Integrated Hole Volume every 100.00 (ft3)

IHV_RM - Integrated Hole Volume every 10.00 (ft3)

TIME_1900 - Time Marked every 60.00 (s)

Description: TBEI Cross Section BoreHole Profile Recorder ModeFormat: Log (TBEI Cross Section RM)Index Scale: 5 in per 100 ftIndex Unit: ftIndex Type: Measured DepthCreation Date: 28-Feb-2021 05:48:58

Channel Processing Parameters

ONE: Parameters

Parameter	Description	Tool	Value	Unit
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BS	Bit Size	WLSESSION	8.75	in
CBLO	Casing Bottom (Logger)	WLSESSION	3100	ft
DPINV_LAGCUT_TBDS	TBDS Lag Cut for Dipole Inversion	TBDS-B	No	
DPINV_PASS_RATE_XD_TBDS	Dipole Inversion Pass Rate for XD	TBDS-B	11.01	%
DPINV_PASS_RATE_YD_TBDS	Dipole Inversion Pass Rate for YD	TBDS-B	14.77	%
DPINV_RSLT_XD_TBDS	Dipole Inversion Processing Result for XD	TBDS-B	FAIL	
DPINV_RSLT_YD_TBDS	Dipole Inversion Processing Result for YD	TBDS-B	FAIL	
FCD	Future Casing (Outer) Diameter	WLSESSION	5.5	in
GCSE_UP_PASS_RM	Generalized Caliper Selection for WLRM Log Up Passes	Borehole_RM	C1_13(RM)	

Tool Control Parameters

ONE

Software Version

Acquisition System	Version
Maxwell 2021.0	11.0.209095.3100
Application Patch	Wireline_Hotfix-Mandatory-2021.0_11.0.211452
	Wireline_NPD-ThruBit-2021.0_11.0.210501

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[1]:Up	Up	654.53 ft	9126.99 ft	27-Feb-2021 6:19:54 PM	28-Feb-2021 1:05:55 AM	ON	17.00 ft	Yes

All depths are referenced to toolstring zero

Log

Company:University of UtahWell:FORGE 56-32 Monitor WellONE: Log[1]:Up:S011

Description: TBEI Image LogFormat: Log (TBEI Image Log)Index Scale: 5 in per 100 ftIndex Unit: ftIndex Type: Measured DepthCreation Date: 28-Feb-2021 05:49:09

#4

#5

Caliper

#6

#7

#8

TBEI - TBEI Borehole CrossSection TBEI-A RM

Orientation Index: None

ONE: Parameters

Parameter	Description	Tool	Value	Unit
DPINV_LAGCUT_TBDS	TBDS Lag Cut for Dipole Inversion	TBDS-B	No	
DPINV_PASS_RATE_XD_TBDS	Dipole Inversion Pass Rate for XD	TBDS-B	11.01	%
DPINV_PASS_RATE_YD_TBDS	Dipole Inversion Pass Rate for YD	TBDS-B	14.77	%
DPINV_RSLT_XD_TBDS	Dipole Inversion Processing Result for XD	TBDS-B	FAIL	
DPINV_RSLT_YD_TBDS	Dipole Inversion Processing Result for YD	TBDS-B	FAIL	

Tool Control Parameters

Calibration Report

TBEI-A (ThruBit WBM Imager Tool version A (TBEI-AA or TBEI-XA)) Calibration - Run ONE

Primary Equipment :		
ThruBit WBM Imager Sonde Version A	TBEI-A	003

TBEI Caliper Master Calibration - Caliper Coefficients

Master (File):		13:51:59 23-Feb-2021						
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit		
C1 COEFFS - 0		Master	0	----	1.934	----		
C1 COEFFS - 1		Master	0	----	1.635	----		
C1 COEFFS - 2		Master	0	----	1.333	----		
C1 COEFFS - 3		Master	0	----	1.030	----		
C1 COEFFS - 4		Master	0	----	0.722	----		
C1 COEFFS - 5		Master	0	----	0.429	----		
C1 COEFFS - 6		Master	0	----	0.132	----		
C1 COEFFS - 7		Master	0	----	1.954	----		
C1 COEFFS - 8		Master	0	----	1.662	----		
C1 COEFFS - 9		Master	0	----	1.363	----		
C1 COEFFS - 10		Master	0	----	1.060	----		
C1 COEFFS - 11		Master	0	----	0.760	----		
C1 COEFFS - 12		Master	0	----	0.460	----		
C1 COEFFS - 13		Master	0	----	0.154	----		
C1 COEFFS - 14		Master	0	----	-372.277	----		
C1 COEFFS - 15		Master	0	----	-120.260	----		
C1 COEFFS - 16		Master	0	----	-349.707	----		
C1 COEFFS - 17		Master	0	----	-496.554	----		
C1 COEFFS - 18		Master	0	----	-451.957	----		
C1 COEFFS - 19		Master	0	----	-350.779	----		
C1 COEFFS - 20		Master	0	----	-151.757	----		
C1 COEFFS - 21		Master	0	----	147.787	----		
C1 COEFFS - 22		Master	0	----	-205.966	----		
C1 COEFFS - 23		Master	0	----	-126.137	----		
C1 COEFFS - 24		Master	0	----	8.875	----		
C1 COEFFS - 25		Master	0	----	-95.736	----		
C1 COEFFS - 26		Master	0	----	-674.775	----		
C1 COEFFS - 27		Master	0	----	-510.873	----		
C1 COEFFS - 28		Master	0	----	-30.036	----		
C1 COEFFS - 29		Master	0	----	-29.604	----		
C1 COEFFS - 30		Master	0	----	-29.606	----		
C1 COEFFS - 31		Master	0	----	-29.666	----		
C1 COEFFS - 32		Master	0	----	-29.409	----		
C1 COEFFS - 33		Master	0	----	-30.058	----		
C1 COEFFS - 34		Master	0	----	-30.105	----		
C1 COEFFS - 35		Master	0	----	-30.450	----		
C1 COEFFS - 36		Master	0	----	-30.707	----		
C1 COEFFS - 37		Master	0	----	-30.760	----		
C1 COEFFS - 38		Master	0	----	-30.453	----		
C1 COEFFS - 39		Master	0	----	-30.777	----		
C1 COEFFS - 40		Master	0	----	-30.076	----		

C1 COEFFS - 41		Master	0	----	-30.120	----		
C1 COEFFS - 42		Master	0	----	6139.471	----		
C1 COEFFS - 43		Master	0	----	6119.466	----		
C1 COEFFS - 44		Master	0	----	6099.886	----		
C1 COEFFS - 45		Master	0	----	6109.777	----		
C1 COEFFS - 46		Master	0	----	6069.667	----		
C1 COEFFS - 47		Master	0	----	6176.474	----		
C1 COEFFS - 48		Master	0	----	6185.683	----		
C1 COEFFS - 49		Master	0	----	6252.146	----		
C1 COEFFS - 50		Master	0	----	6322.707	----		
C1 COEFFS - 51		Master	0	----	6341.398	----		
C1 COEFFS - 52		Master	0	----	6306.323	----		
C1 COEFFS - 53		Master	0	----	6348.249	----		
C1 COEFFS - 54		Master	0	----	6216.790	----		
C1 COEFFS - 55		Master	0	----	6201.121	----		
C1 COEFFS - 56		Master	0	----	2391.000	----		
C1 COEFFS - 57		Master	0	----	6.220	----		
C1 COEFFS - 58		Master	0	----	0.000	----		
C1 COEFFS - 59		Master	0	----	-0.020	----		
C1 COEFFS - 60		Master	0	----	1.436	----		
C1 COEFFS - 61		Master	0	----	-6.191	----		
C1 COEFFS - 62		Master	0	----	11.879	----		
C1 COEFFS - 63		Master	0	----	0.479	----		
C1 COEFFS - 64		Master	0	----	1.436	----		
C1 COEFFS - 65		Master	0	----	-6.191	----		
C1 COEFFS - 66		Master	0	----	11.879	----		
C1 COEFFS - 67		Master	0	----	0.479	----		
C2 COEFFS - 0		Master	0	----	1.979	----		
C2 COEFFS - 1		Master	0	----	1.670	----		
C2 COEFFS - 2		Master	0	----	1.378	----		
C2 COEFFS - 3		Master	0	----	1.067	----		
C2 COEFFS - 4		Master	0	----	0.770	----		
C2 COEFFS - 5		Master	0	----	0.473	----		
C2 COEFFS - 6		Master	0	----	0.173	----		
C2 COEFFS - 7		Master	0	----	1.968	----		
C2 COEFFS - 8		Master	0	----	1.670	----		
C2 COEFFS - 9		Master	0	----	1.370	----		
C2 COEFFS - 10		Master	0	----	1.069	----		
C2 COEFFS - 11		Master	0	----	0.774	----		
C2 COEFFS - 12		Master	0	----	0.468	----		
C2 COEFFS - 13		Master	0	----	0.166	----		
C2 COEFFS - 14		Master	0	----	-392.439	----		
C2 COEFFS - 15		Master	0	----	-328.685	----		
C2 COEFFS - 16		Master	0	----	-345.307	----		
C2 COEFFS - 17		Master	0	----	-449.368	----		
C2 COEFFS - 18		Master	0	----	-425.823	----		
C2 COEFFS - 19		Master	0	----	-263.865	----		
C2 COEFFS - 20		Master	0	----	-293.977	----		
C2 COEFFS - 21		Master	0	----	29.737	----		
C2 COEFFS - 22		Master	0	----	-398.512	----		
C2 COEFFS - 23		Master	0	----	-306.072	----		
C2 COEFFS - 24		Master	0	----	610.632	----		
C2 COEFFS - 25		Master	0	----	-548.167	----		
C2 COEFFS - 26		Master	0	----	-135.371	----		
C2 COEFFS - 27		Master	0	----	-360.397	----		
C2 COEFFS - 28		Master	0	----	-29.741	----		
C2 COEFFS - 29		Master	0	----	-30.289	----		
C2 COEFFS - 30		Master	0	----	-30.544	----		
C2 COEFFS - 31		Master	0	----	-30.499	----		
C2 COEFFS - 32		Master	0	----	-30.731	----		
C2 COEFFS - 33		Master	0	----	-30.767	----		
C2 COEFFS - 34		Master	0	----	-30.849	----		

C2 COEFFS - 35		Master	0	----	-30.987	----		
C2 COEFFS - 36		Master	0	----	-31.113	----		
C2 COEFFS - 37		Master	0	----	-31.007	----		
C2 COEFFS - 38		Master	0	----	-31.057	----		
C2 COEFFS - 39		Master	0	----	-30.815	----		
C2 COEFFS - 40		Master	0	----	-31.020	----		
C2 COEFFS - 41		Master	0	----	-31.073	----		
C2 COEFFS - 42		Master	0	----	6014.403	----		
C2 COEFFS - 43		Master	0	----	6163.608	----		
C2 COEFFS - 44		Master	0	----	6199.656	----		
C2 COEFFS - 45		Master	0	----	6203.942	----		
C2 COEFFS - 46		Master	0	----	6241.729	----		
C2 COEFFS - 47		Master	0	----	6256.827	----		
C2 COEFFS - 48		Master	0	----	6263.181	----		
C2 COEFFS - 49		Master	0	----	6288.093	----		
C2 COEFFS - 50		Master	0	----	6364.241	----		
C2 COEFFS - 51		Master	0	----	6376.969	----		
C2 COEFFS - 52		Master	0	----	6412.653	----		
C2 COEFFS - 53		Master	0	----	6317.133	----		
C2 COEFFS - 54		Master	0	----	6380.502	----		
C2 COEFFS - 55		Master	0	----	6381.215	----		
C2 COEFFS - 56		Master	0	----	2391.000	----		
C2 COEFFS - 57		Master	0	----	6.220	----		
C2 COEFFS - 58		Master	0	----	0.000	----		
C2 COEFFS - 59		Master	0	----	-0.020	----		
C2 COEFFS - 60		Master	0	----	1.436	----		
C2 COEFFS - 61		Master	0	----	-6.191	----		
C2 COEFFS - 62		Master	0	----	11.879	----		
C2 COEFFS - 63		Master	0	----	0.479	----		
C2 COEFFS - 64		Master	0	----	1.436	----		
C2 COEFFS - 65		Master	0	----	-6.191	----		
C2 COEFFS - 66		Master	0	----	11.879	----		
C2 COEFFS - 67		Master	0	----	0.479	----		
C3 COEFFS - 0		Master	0	----	1.937	----		
C3 COEFFS - 1		Master	0	----	1.640	----		
C3 COEFFS - 2		Master	0	----	1.331	----		
C3 COEFFS - 3		Master	0	----	1.038	----		
C3 COEFFS - 4		Master	0	----	0.728	----		
C3 COEFFS - 5		Master	0	----	0.439	----		
C3 COEFFS - 6		Master	0	----	0.132	----		
C3 COEFFS - 7		Master	0	----	1.961	----		
C3 COEFFS - 8		Master	0	----	1.660	----		
C3 COEFFS - 9		Master	0	----	1.359	----		
C3 COEFFS - 10		Master	0	----	1.060	----		
C3 COEFFS - 11		Master	0	----	0.759	----		
C3 COEFFS - 12		Master	0	----	0.461	----		
C3 COEFFS - 13		Master	0	----	0.163	----		
C3 COEFFS - 14		Master	0	----	4.326	----		
C3 COEFFS - 15		Master	0	----	-932.341	----		
C3 COEFFS - 16		Master	0	----	-355.513	----		
C3 COEFFS - 17		Master	0	----	-446.989	----		
C3 COEFFS - 18		Master	0	----	-514.200	----		
C3 COEFFS - 19		Master	0	----	-231.355	----		
C3 COEFFS - 20		Master	0	----	-669.489	----		
C3 COEFFS - 21		Master	0	----	-438.544	----		
C3 COEFFS - 22		Master	0	----	-488.821	----		
C3 COEFFS - 23		Master	0	----	40.291	----		
C3 COEFFS - 24		Master	0	----	-425.945	----		
C3 COEFFS - 25		Master	0	----	-413.843	----		
C3 COEFFS - 26		Master	0	----	426.094	----		
C3 COEFFS - 27		Master	0	----	-365.325	----		

C3 COEFFS - 28		Master	0	----	-30.341	----		
C3 COEFFS - 29		Master	0	----	-29.417	----		
C3 COEFFS - 30		Master	0	----	-29.696	----		
C3 COEFFS - 31		Master	0	----	-30.049	----		
C3 COEFFS - 32		Master	0	----	-29.767	----		
C3 COEFFS - 33		Master	0	----	-30.324	----		
C3 COEFFS - 34		Master	0	----	-29.783	----		
C3 COEFFS - 35		Master	0	----	-30.716	----		
C3 COEFFS - 36		Master	0	----	-30.633	----		
C3 COEFFS - 37		Master	0	----	-30.947	----		
C3 COEFFS - 38		Master	0	----	-30.445	----		
C3 COEFFS - 39		Master	0	----	-30.488	----		
C3 COEFFS - 40		Master	0	----	-30.878	----		
C3 COEFFS - 41		Master	0	----	-31.208	----		
C3 COEFFS - 42		Master	0	----	6142.761	----		
C3 COEFFS - 43		Master	0	----	5995.691	----		
C3 COEFFS - 44		Master	0	----	6068.111	----		
C3 COEFFS - 45		Master	0	----	6093.075	----		
C3 COEFFS - 46		Master	0	----	6063.482	----		
C3 COEFFS - 47		Master	0	----	6165.942	----		
C3 COEFFS - 48		Master	0	----	6053.244	----		
C3 COEFFS - 49		Master	0	----	6124.694	----		
C3 COEFFS - 50		Master	0	----	6219.856	----		
C3 COEFFS - 51		Master	0	----	6293.962	----		
C3 COEFFS - 52		Master	0	----	6200.130	----		
C3 COEFFS - 53		Master	0	----	6231.974	----		
C3 COEFFS - 54		Master	0	----	6309.233	----		
C3 COEFFS - 55		Master	0	----	6338.863	----		
C3 COEFFS - 56		Master	0	----	2391.000	----		
C3 COEFFS - 57		Master	0	----	6.220	----		
C3 COEFFS - 58		Master	0	----	0.000	----		
C3 COEFFS - 59		Master	0	----	-0.020	----		
C3 COEFFS - 60		Master	0	----	1.436	----		
C3 COEFFS - 61		Master	0	----	-6.191	----		
C3 COEFFS - 62		Master	0	----	11.879	----		
C3 COEFFS - 63		Master	0	----	0.479	----		
C3 COEFFS - 64		Master	0	----	1.436	----		
C3 COEFFS - 65		Master	0	----	-6.191	----		
C3 COEFFS - 66		Master	0	----	11.879	----		
C3 COEFFS - 67		Master	0	----	0.479	----		

TBEI Inclinometer Master Calibration - Inclinometer Coefficients								
Master (File):		17:00:00 29-Nov-1999						
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit		
Inclinometer Coeffs - 0		Master	0	----	-9.78883E-001	----		
Inclinometer Coeffs - 1		Master	0	----	2.06801E-002	----		
Inclinometer Coeffs - 2		Master	0	----	1.01331E-005	----		
Inclinometer Coeffs - 3		Master	0	----	5.55686E-008	----		
Inclinometer Coeffs - 4		Master	0	----	-2.75196E+000	----		
Inclinometer Coeffs - 5		Master	0	----	1.75406E-002	----		
Inclinometer Coeffs - 6		Master	0	----	-1.25433E-005	----		
Inclinometer Coeffs - 7		Master	0	----	1.57778E-007	----		
Inclinometer Coeffs - 8		Master	0	----	-8.35736E-001	----		
Inclinometer Coeffs - 9		Master	0	----	1.09665E-002	----		
Inclinometer Coeffs - 10		Master	0	----	4.99842E-006	----		
Inclinometer Coeffs - 11		Master	0	----	1.31070E-007	----		
Inclinometer Coeffs - 12		Master	0	----	2.76450E+000	----		
Inclinometer Coeffs - 13		Master	0	----	2.72968E-004	----		
Inclinometer Coeffs - 14		Master	0	----	4.69476E-007	----		
Inclinometer Coeffs - 15		Master	0	----	1.08576E-010	----		
Inclinometer Coeffs - 16		Master	0	----	2.78232E+000	----		
Inclinometer Coeffs - 17		Master	0	----	2.75246E-004	----		

Inclinometer Coeffs - 17		Master	0	----	2.75642E-004	----		
Inclinometer Coeffs - 18		Master	0	----	5.35893E-007	----		
Inclinometer Coeffs - 19		Master	0	----	-1.36250E-011	----		
Inclinometer Coeffs - 20		Master	0	----	2.77518E+000	----		
Inclinometer Coeffs - 21		Master	0	----	2.90654E-004	----		
Inclinometer Coeffs - 22		Master	0	----	4.33445E-007	----		
Inclinometer Coeffs - 23		Master	0	----	1.03703E-010	----		
Inclinometer Coeffs - 24		Master	0	----	-4.70228E-003	----		
Inclinometer Coeffs - 25		Master	0	----	-1.26523E-005	----		
Inclinometer Coeffs - 26		Master	0	----	4.18117E-007	----		
Inclinometer Coeffs - 27		Master	0	----	-1.47602E-009	----		
Inclinometer Coeffs - 28		Master	0	----	-1.39211E-004	----		
Inclinometer Coeffs - 29		Master	0	----	3.12210E-005	----		
Inclinometer Coeffs - 30		Master	0	----	6.76645E-007	----		
Inclinometer Coeffs - 31		Master	0	----	-2.67349E-009	----		
Inclinometer Coeffs - 32		Master	0	----	-7.15457E-004	----		
Inclinometer Coeffs - 33		Master	0	----	3.46043E-005	----		
Inclinometer Coeffs - 34		Master	0	----	4.02615E-007	----		
Inclinometer Coeffs - 35		Master	0	----	-1.70717E-009	----		
Inclinometer Coeffs - 36		Master	0	----	1.00028E+000	----		
Inclinometer Coeffs - 37		Master	0	----	6.45316E-006	----		
Inclinometer Coeffs - 38		Master	0	----	-1.36285E-007	----		
Inclinometer Coeffs - 39		Master	0	----	1.34074E-009	----		
Inclinometer Coeffs - 40		Master	0	----	1.00121E+000	----		
Inclinometer Coeffs - 41		Master	0	----	4.12647E-006	----		
Inclinometer Coeffs - 42		Master	0	----	-1.79585E-007	----		
Inclinometer Coeffs - 43		Master	0	----	1.73346E-009	----		
Inclinometer Coeffs - 44		Master	0	----	1.00080E+000	----		
Inclinometer Coeffs - 45		Master	0	----	-1.71804E-005	----		
Inclinometer Coeffs - 46		Master	0	----	2.03439E-007	----		
Inclinometer Coeffs - 47		Master	0	----	9.93433E-011	----		
Inclinometer Coeffs - 48		Master	0	----	-3.48217E-001	----		
Inclinometer Coeffs - 49		Master	0	----	-1.74322E-002	----		
Inclinometer Coeffs - 50		Master	0	----	3.54420E-004	----		
Inclinometer Coeffs - 51		Master	0	----	-1.63067E-006	----		
Inclinometer Coeffs - 52		Master	0	----	-2.21440E-001	----		
Inclinometer Coeffs - 53		Master	0	----	-1.98330E-002	----		
Inclinometer Coeffs - 54		Master	0	----	3.74952E-004	----		
Inclinometer Coeffs - 55		Master	0	----	-1.70971E-006	----		
Inclinometer Coeffs - 56		Master	0	----	-5.18593E-001	----		
Inclinometer Coeffs - 57		Master	0	----	-1.51466E-002	----		
Inclinometer Coeffs - 58		Master	0	----	3.06080E-004	----		
Inclinometer Coeffs - 59		Master	0	----	-1.30892E-006	----		
Inclinometer Coeffs - 60		Master	0	----	9.89276E-001	----		
Inclinometer Coeffs - 61		Master	0	----	2.28174E-005	----		
Inclinometer Coeffs - 62		Master	0	----	-1.35403E-007	----		
Inclinometer Coeffs - 63		Master	0	----	4.46344E-010	----		
Inclinometer Coeffs - 64		Master	0	----	9.89116E-001	----		
Inclinometer Coeffs - 65		Master	0	----	7.30387E-005	----		
Inclinometer Coeffs - 66		Master	0	----	-1.07139E-006	----		
Inclinometer Coeffs - 67		Master	0	----	4.20205E-009	----		
Inclinometer Coeffs - 68		Master	0	----	9.92360E-001	----		
Inclinometer Coeffs - 69		Master	0	----	-1.41196E-004	----		
Inclinometer Coeffs - 70		Master	0	----	1.95805E-006	----		
Inclinometer Coeffs - 71		Master	0	----	-7.37201E-009	----		
Inclinometer Coeffs - 72		Master	0	----	1.00000E+000	----		
Inclinometer Coeffs - 73		Master	0	----	-1.03668E-003	----		
Inclinometer Coeffs - 74		Master	0	----	2.25667E-004	----		
Inclinometer Coeffs - 75		Master	0	----	3.85456E-004	----		
Inclinometer Coeffs - 76		Master	0	----	1.00000E+000	----		
Inclinometer Coeffs - 77		Master	0	----	1.10632E-004	----		
Inclinometer Coeffs - 78		Master	0	----	1.56162E-005	----		

Inclinometer Coeffs - 70		Master	0	-----	-1.50102E-003	-----		
Inclinometer Coeffs - 79		Master	0	-----	1.42900E-003	-----		
Inclinometer Coeffs - 80		Master	0	-----	9.99999E-001	-----		
TBEI Caliper Calibration - Caliper Coefficients								
Master (File):		17:00:00 29-Nov-1999						
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit		
C1_13 Small Ring	in	Master	6.0000	4.5000	6.1873	7.5000		
C1_13 Large Ring	in	Master	9.0000	7.5000	9.0312	10.5000		
C1_24 Small Ring	in	Master	6.0000	4.5000	6.0636	7.5000		
C1_24 Large Ring	in	Master	9.0000	7.5000	8.9975	10.5000		
C2_13 Small Ring	in	Master	6.0000	4.5000	6.2681	7.5000		
C2_13 Large Ring	in	Master	9.0000	7.5000	9.0796	10.5000		
C2_24 Small Ring	in	Master	6.0000	4.5000	6.2250	7.5000		
C2_24 Large Ring	in	Master	9.0000	7.5000	9.0079	10.5000		
C3_13 Small Ring	in	Master	6.0000	4.5000	6.2688	7.5000		
C3_13 Large Ring	in	Master	9.0000	7.5000	9.0552	10.5000		
C3_24 Small Ring	in	Master	6.0000	4.5000	6.0518	7.5000		
C3_24 Large Ring	in	Master	9.0000	7.5000	8.9746	10.5000		
C4_13 Small Ring - 0		Master	-----	-----	-----	-----		
C4_13 Large Ring - 0		Master	-----	-----	-----	-----		
C4_24 Small Ring - 0		Master	-----	-----	-----	-----		
C4_24 Large Ring - 0		Master	-----	-----	-----	-----		

TMG-A (ThruBit Telemetry Memory Gamma A - 2 1/8in - 10 pin) Calibration - Run ONE

Primary Equipment :			ThruBit Telemetry Gamma Sonde Version A			TMG-A		70
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TMG Gamma-Ray Calibration - Gamma-Ray Coefficients

Master (File):		15:13:13 04-Feb-2021						
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit		
Gamma-Ray Gain		Master	1.000	0.800	1.117	1.200		
Gamma-Ray Jig Minus Background	gAPI	Master	155.0	124.0	138.7	186.0		

TMG Gamma-Ray Calibration - Gamma-Ray Accumulations

Master (File):		15:13:13 04-Feb-2021						
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit		
Gamma-Ray Background	gAPI	Master	30.00	0	70.61	120.00		
Gamma-Ray Jig	gAPI	Master	-----	-----	209.4	-----		

TMG Inclinometry Calibration - Inclinometry Coefficients

Master (File):		15:17:11 04-Feb-2021						
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit		
Relative Bearing Offset	deg	Master	0	-360.000	-12.162	360.000		
Accelerometer X-Axis Gain		Master	-----	-----	1.010	-----		
Accelerometer X-Axis Offset	ft/s2	Master	-----	-----	-0.97	-----		
Accelerometer Y-Axis Gain		Master	-----	-----	1.020	-----		
Accelerometer Y-Axis Offset	ft/s2	Master	-----	-----	-0.66	-----		
Accelerometer Z-Axis Gain		Master	-----	-----	1.010	-----		
Accelerometer Z-Axis Offset	ft/s2	Master	-----	-----	0.32	-----		

TMG Inclinometry Calibration - Inclinometry Accumulations

Master (File):		15:17:11 04-Feb-2021						
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit		
Minimum AX	ft/s2	Master	-32.19	-35.47	-30.89	-28.90		
Maximum AX	ft/s2	Master	32.19	28.90	32.82	35.47		
Minimum AY	ft/s2	Master	-32.19	-35.47	-30.89	-28.90		
Maximum AY	ft/s2	Master	32.19	28.90	32.17	35.47		
Minimum AZ	ft/s2	Master	0	-3.281	-0.322	3.281		
Maximum AZ	ft/s2	Master	32.19	28.90	31.53	35.47		

Company:	University of Utah	Schlumberger
Well:	FORGE 56-32 Monitor Well	
Field:	Wildcat	
County:	Beaver	
State:	Utah	

THRUBIT IMAGER
FIELD LQC
MEMORY LOG