

Spectral Gamma Ray

Company: PB ENERGY STORAGE SERVICES, INC

Well: DCP Linam Ranch AGI #2

Field: AGI; Bone Spring-Wolfcamp

County: Lea State: New Mexico

Spectral Gamma Ray

County:	Lea		
Field:	AGI; Bone Spring-Wolfcamp		
Location:	1600' FSL & 1750' FWL		
Well:	DCP Linam Ranch AGI #2		
Company:	PB ENERGY STORAGE SERVICES, INC		
Location:			
1600' FSL & 1750' FWL	Elev.: K.B. 3763.00 ft G.L. 3738.00 ft D.F. 3762.00 ft		
Permanent Datum:	Ground Level 3738.00 f		
Log Measured From:	Kelly Bushing 25.00 ft		
Drilling Measured From:	Kelly Bushing above Perm.Datum		
API Serial No.	Section:	Township:	Range:
30-025-42139	30	18S	37E

Logging Date		30-Nov-2014		
Run Number		Two		
Depth Driller		8630.00 ft		
Schlumberger Depth		8630.00 ft		
Bottom Log Interval		8560.00 ft		
Top Log Interval		3520.00 ft		
Casing Driller Size @ Depth		13.375 in @ 3220.00 ft		
Casing Schlumberger		3219.5 ft		
Bit Size		12.25 in		
Type Fluid In Hole		Salt Brine		
MUD	Density	8.8 lbm/gal	33 s	
	Fluid Loss	PH	10	
Source of Sample		Active Tank		
RM @ Meas Temp		9 ohm.m @ 80 degF		
RMF @ Meas Temp		7.5 ohm.m @ 80 degF		
RMC @ Meas Temp		0.06 ohm.m @ 75 degF		
Source RMF		RMC		
RM @ BHT		RMF @ BHT		
		6.85 @ 107.3	5.71 @ 107.3	
Max Recorded Temperatures		125 degF		
Circulation Stopped		Time	Time	
Logger on Bottom		Time		
Unit Number	Location:	2133	13:10:30	
Recorded By		Tyler Bolton		
Witnessed By		Russell Bentley		

Disclaimer

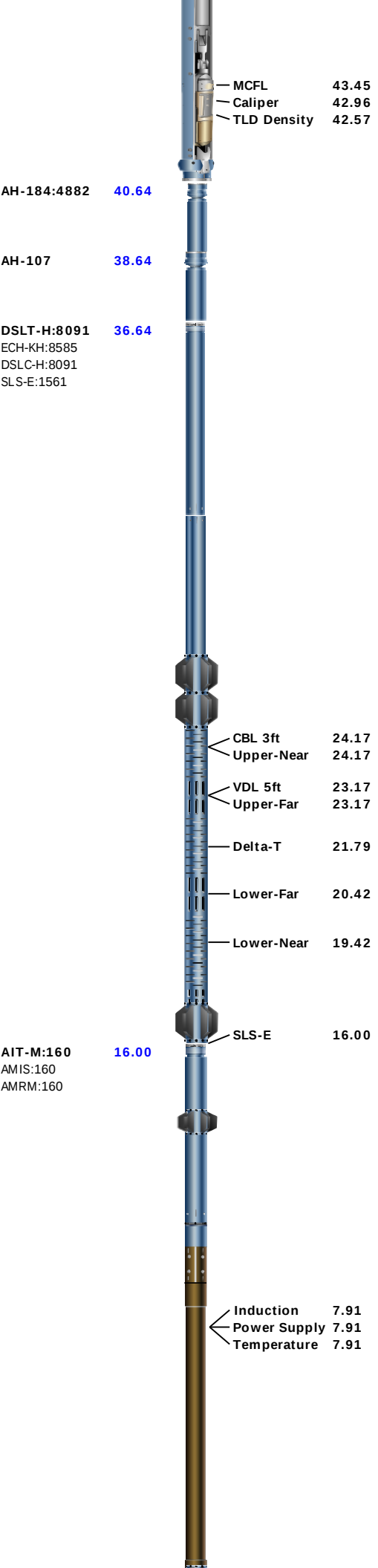
THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

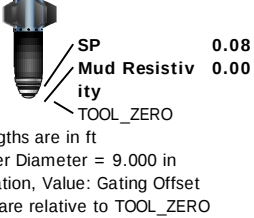
Contents

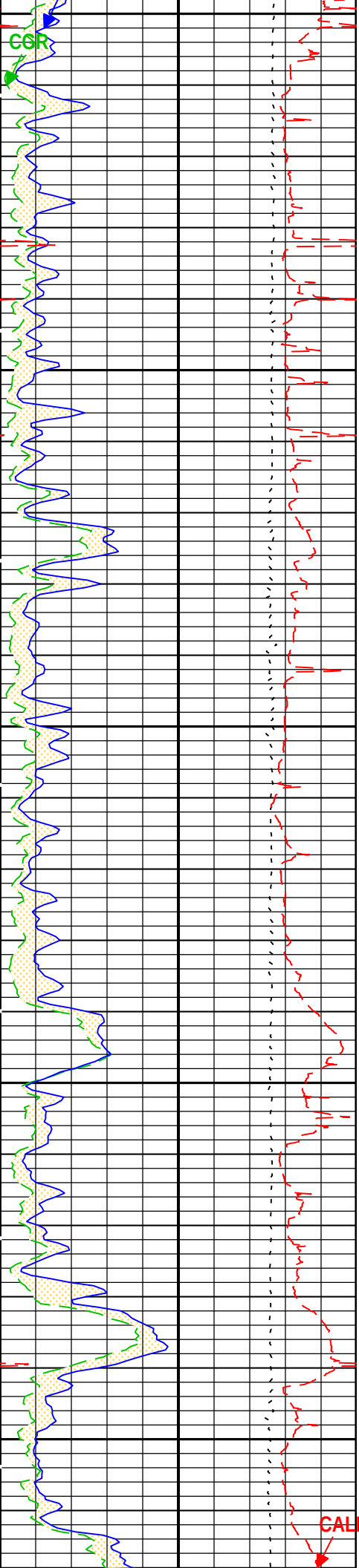
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- 3. Contents
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Remarks and Equipment Summary

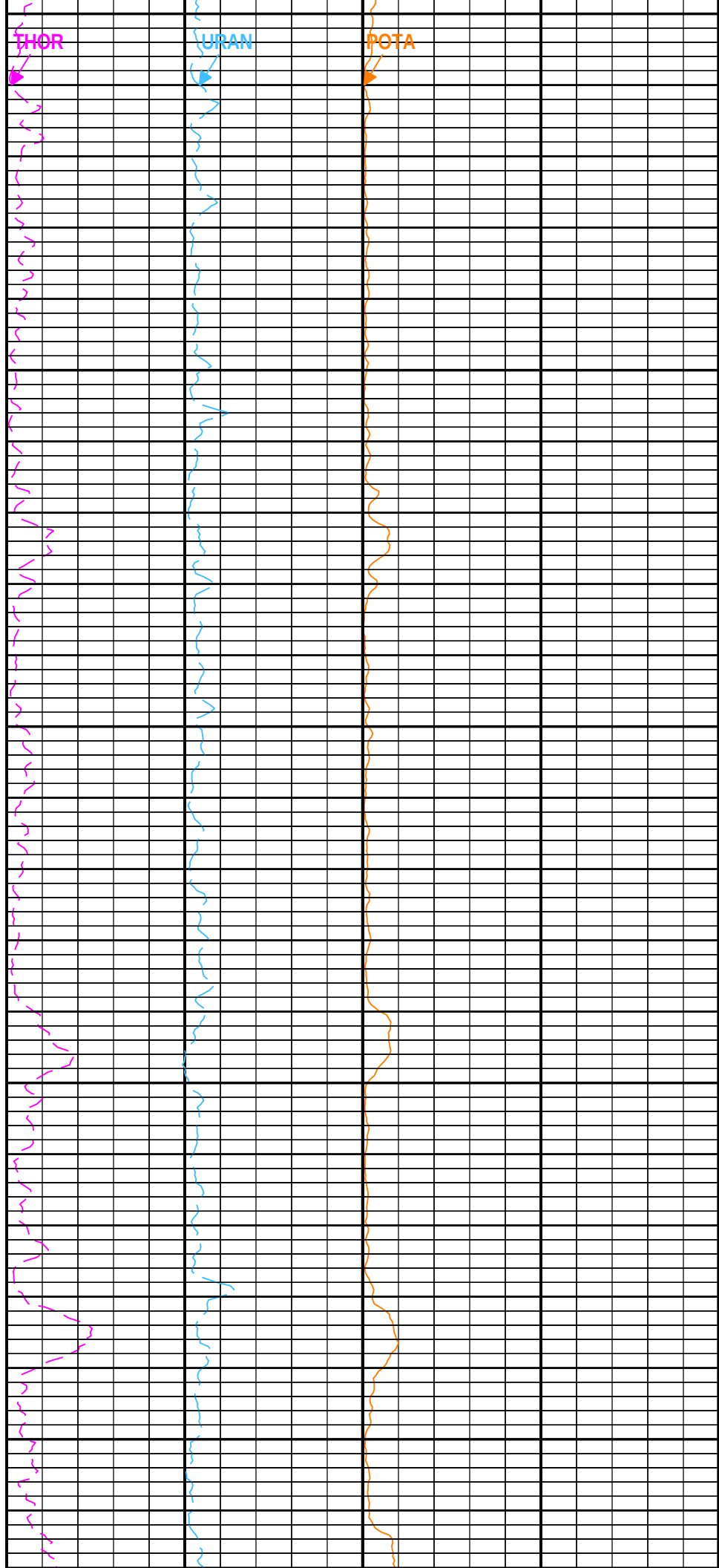
Two: Toolstring				Two: Remarks
Equip name	Length	MP name	Offset	Toolstring run as per toolsketch.
LEH-QC:1317	82.94			Bowspring used to eccentralize HGNS.
				0.125" standoff created by wear-ring on HGNS.
EDTC-B:9071	80.48			1.5" standoffs used on AIT, and DSLT.
EDTH-B:8196				Porosity computed on a Limestone scale with density of 2.71 g/cc and slowness of 47.6 us/ft.
EDTG-A:79243				Rig: Precision 107
EDTC-B:9071				Your Schlumberger Crew: Tyler Bolton, Adam Jaramillo, Jose Gomez.
		CTEM	76.98	
		ACCZ	0.00	
		HV	0.00	
		Gamma Ray	75.11	
		TelStatus	73.98	
HNGS-BA:84	73.98			
HEH-K:1035				
HNGS-BA:84				
		GR	70.99	
HNGC-B:610	65.79			
HNGH-A:4094				
HNGC-B:610				
		Tel Status	64.04	
HGNS-B:951	62.29	Temperature	62.26	
HGNH:3894				
NPV-N		GR	61.55	
NSR-F:2683				
HACCZ-B:448				
HMCA-B				
HGNS-B:951				
		CNL Porosity	55.21	
		HMCA	52.88	
		HGNS	52.88	
		Acceleromete	0.00	
		r		
HDRS-B:1829	52.88			
ECH-MEB:952				
HRCC-B:839				
HRMS-B:1829				
Short Spacing:274				
83				
Backscatter				
Long Spacing:287				
74				
GSR-J:5339		HRCC	48.88	
HRGD-B:3968				
GPV-Q				

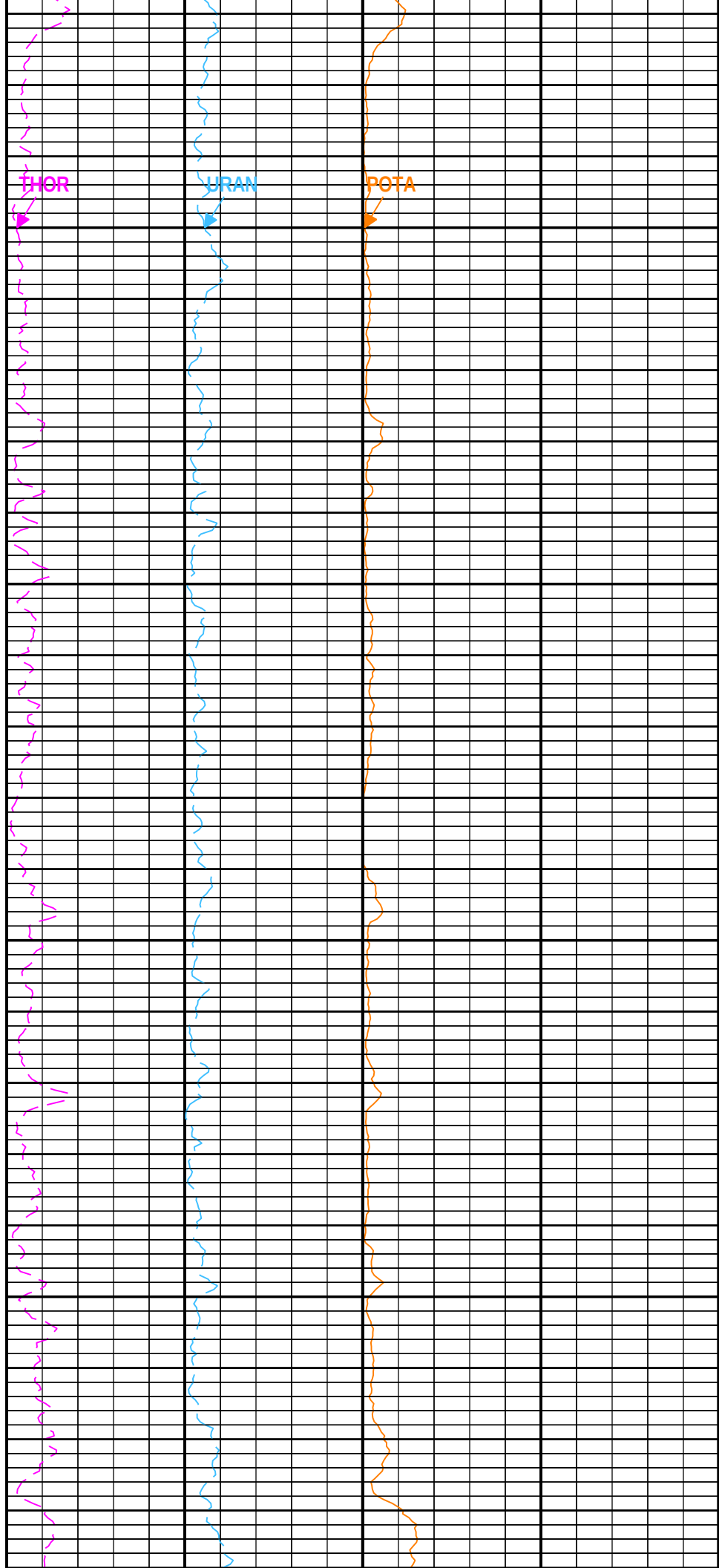
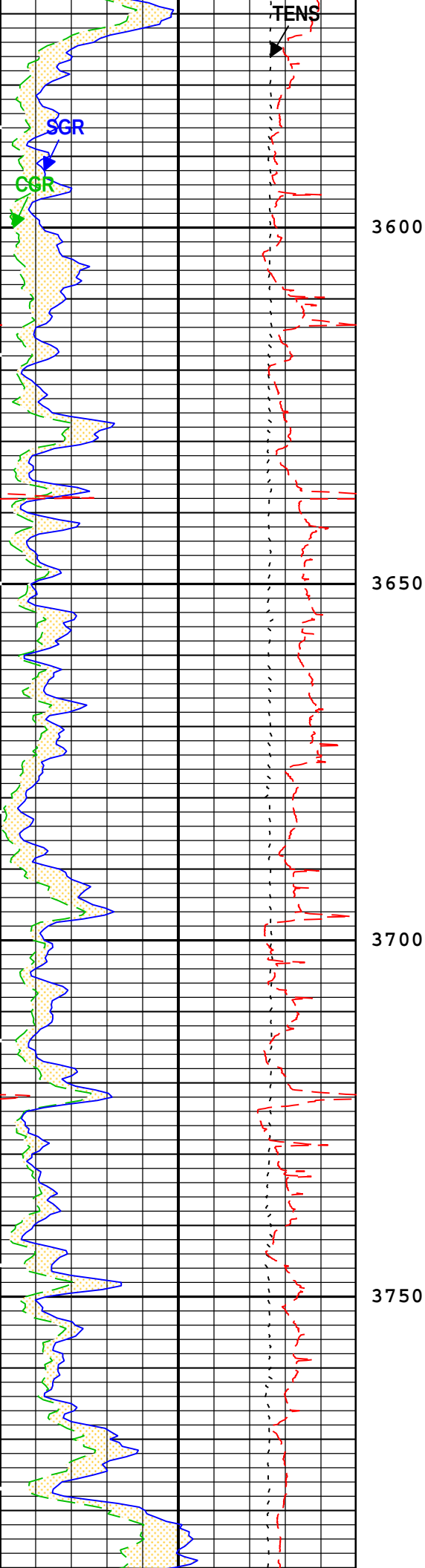


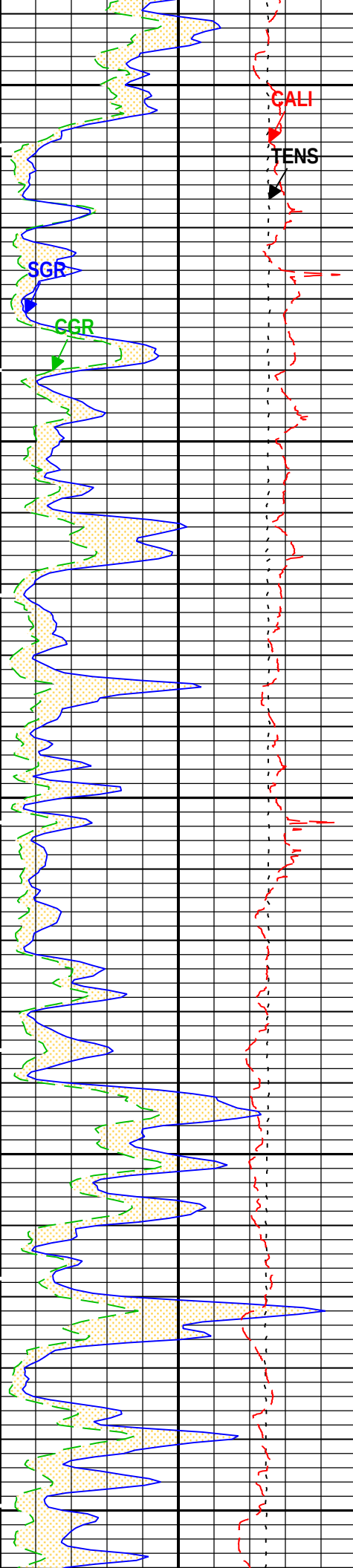
					
Depth Summary					
		Two			
Depth Measuring Device					
Type		IDW-JA			
Serial Number		5910			
Calibration Date		02-Jun-2014			
Calibrator Serial Number					
Calibration Cable Type		7-46P XS			
Wheel Correction 1		-2			
Wheel Correction 2		-1			
Tension Device					
Type		CMTD-B/A			
Serial Number		5044			
Calibration Date		18-Oct-2014			
Calibrator Serial Number		80725A			
Number of Calibration Points		10			
Calibration Root Mean Square Error		19			
Calibration Peak Error		36			
Logging Cable					
Type		7-46P-XS			
Serial Number		U711059			
Length		15500.00 ft			
Conveyance Type		Wireline			
Rig Type		Land			
Two:Depth Control Parameters				Depth Control Remarks	
Log Sequence		Subsequent Trip To the Well		All primary and secondary depth control procedures followed. IDW used as primary depth control device. Z-chart used as secondary depth control device.	
Reference Log Name		Platform Express-CNL			
Reference Log Run Number		One			
Reference Log Date		01-Nov-2014			
Subsequent Trip Down Log Correction		7.29 ft			
Two					
Main Pass 5" = 100'					
Software Version					
Acquisition System				Version	
MaxWell				4.0.9163.3000	
Application Patch				Patch-SP-10767_22480-4.0.9163.3001	
				Patch-NPD_CMRTF_SP3-23787-4.0.9530.3002	
Tool Elements		Description		Software Version	
HNGS-BA		HNGS Sonde Element		4.0.9469.3000	
HRCC-B		HILT High-Resolution Control Cartridge, 125 degC		4.0.9486.3000	
Log		Company:PB ENERGY STORAGE SERVICES, INC Well:DCP Linam Ranch AGI #2 Two: Main[3]:Up:S021			
Description: Format: Log (Spectral 5 inch) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 30-Nov-2014 17:24:44					
Channel		Source Sampling			



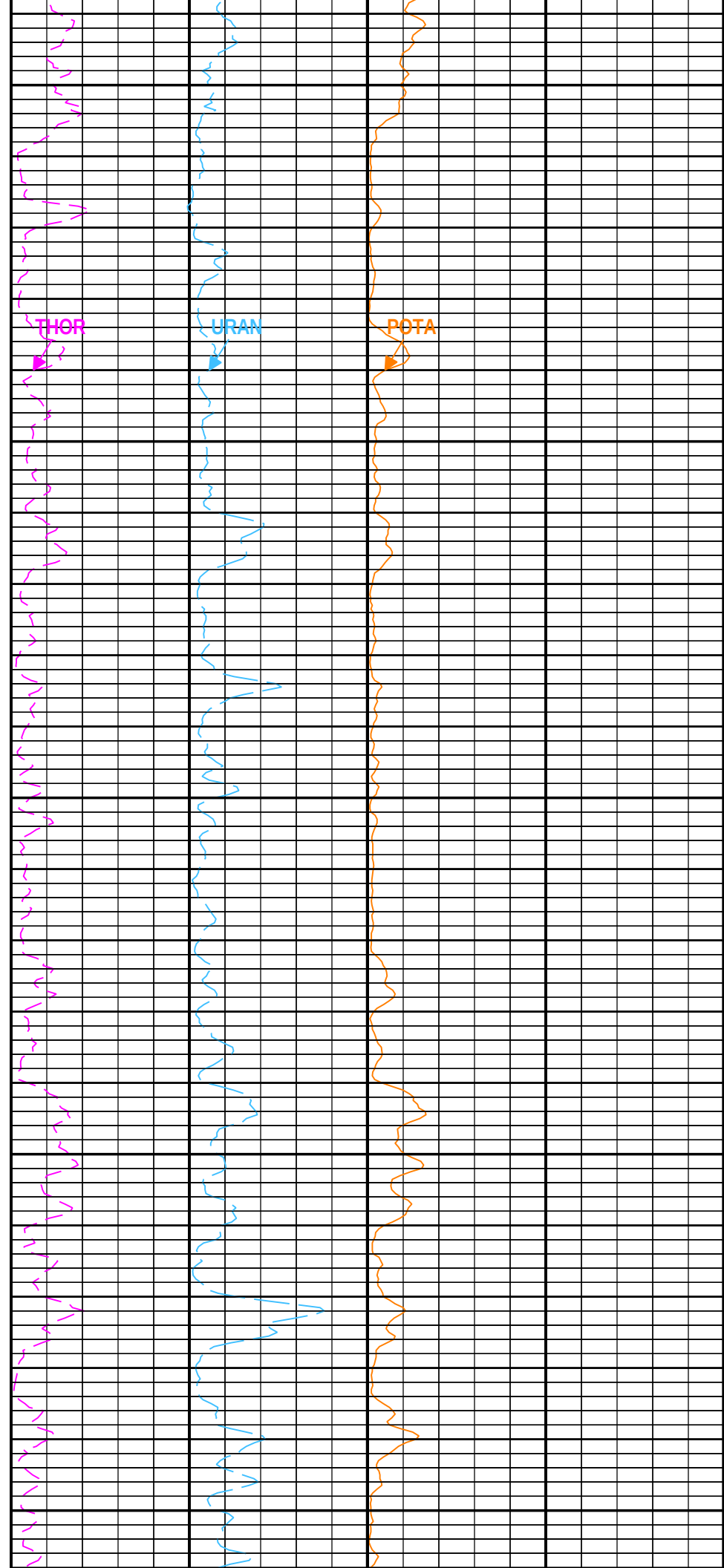
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3400
3450
3500
3550

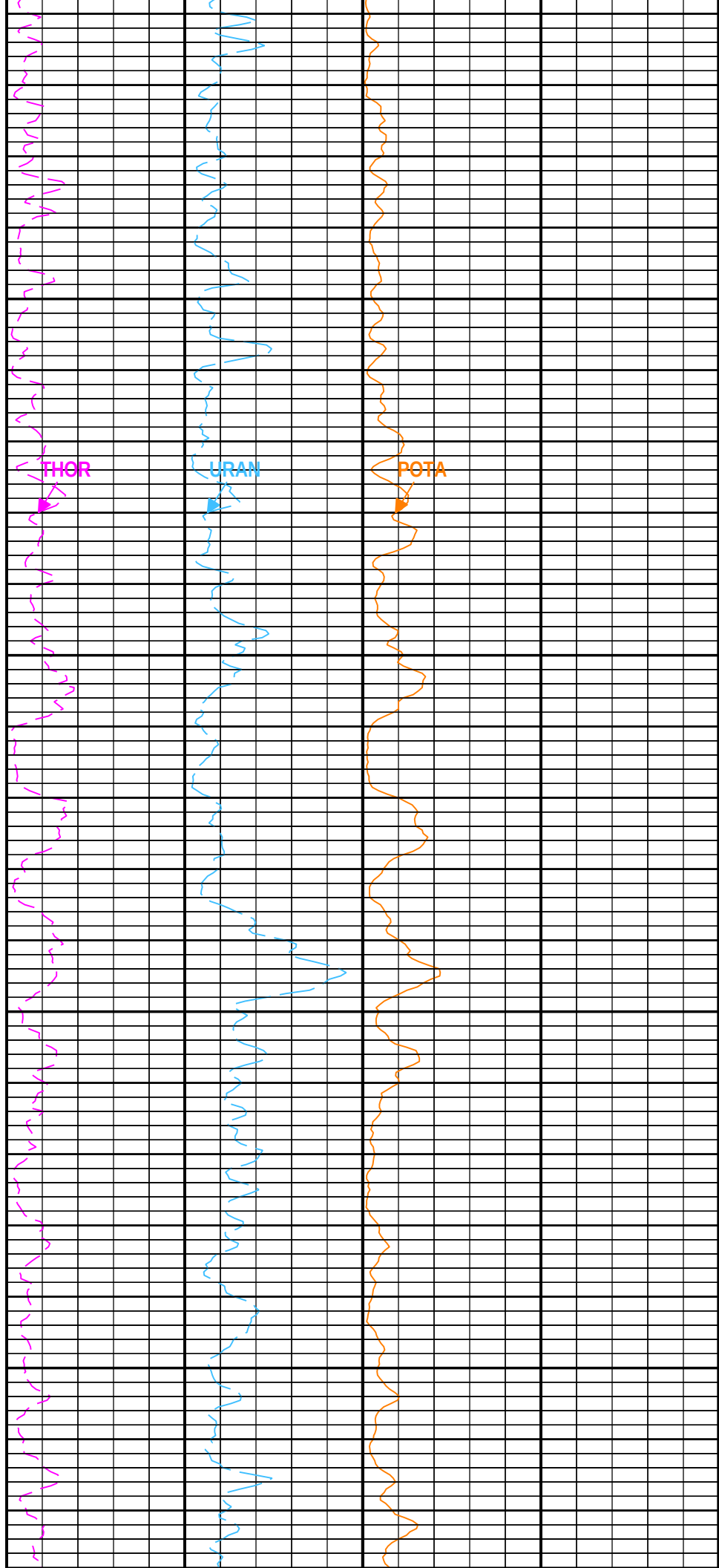
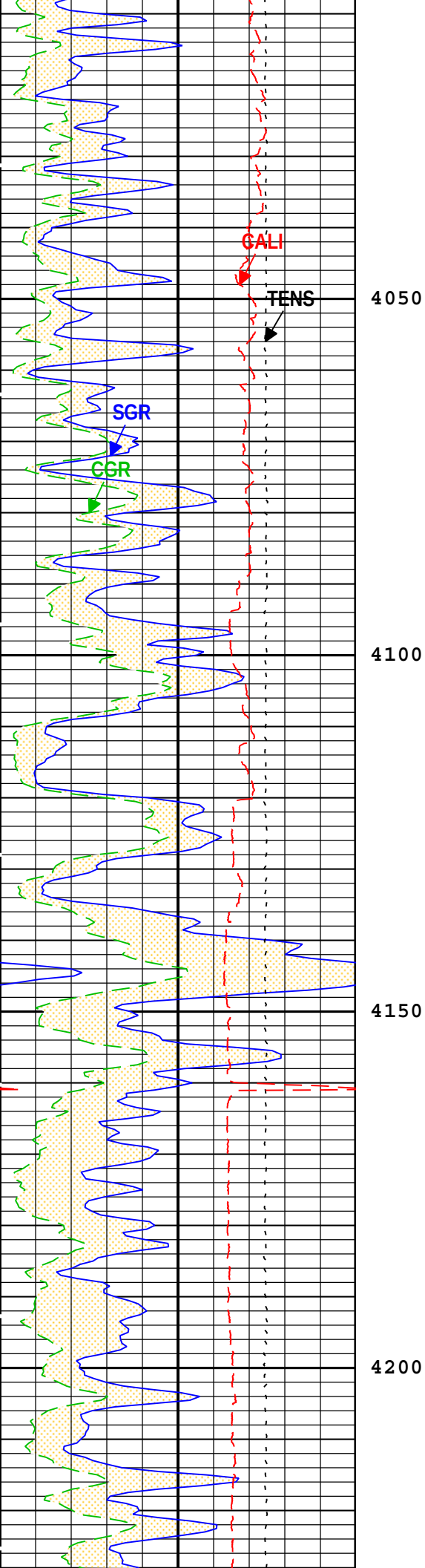


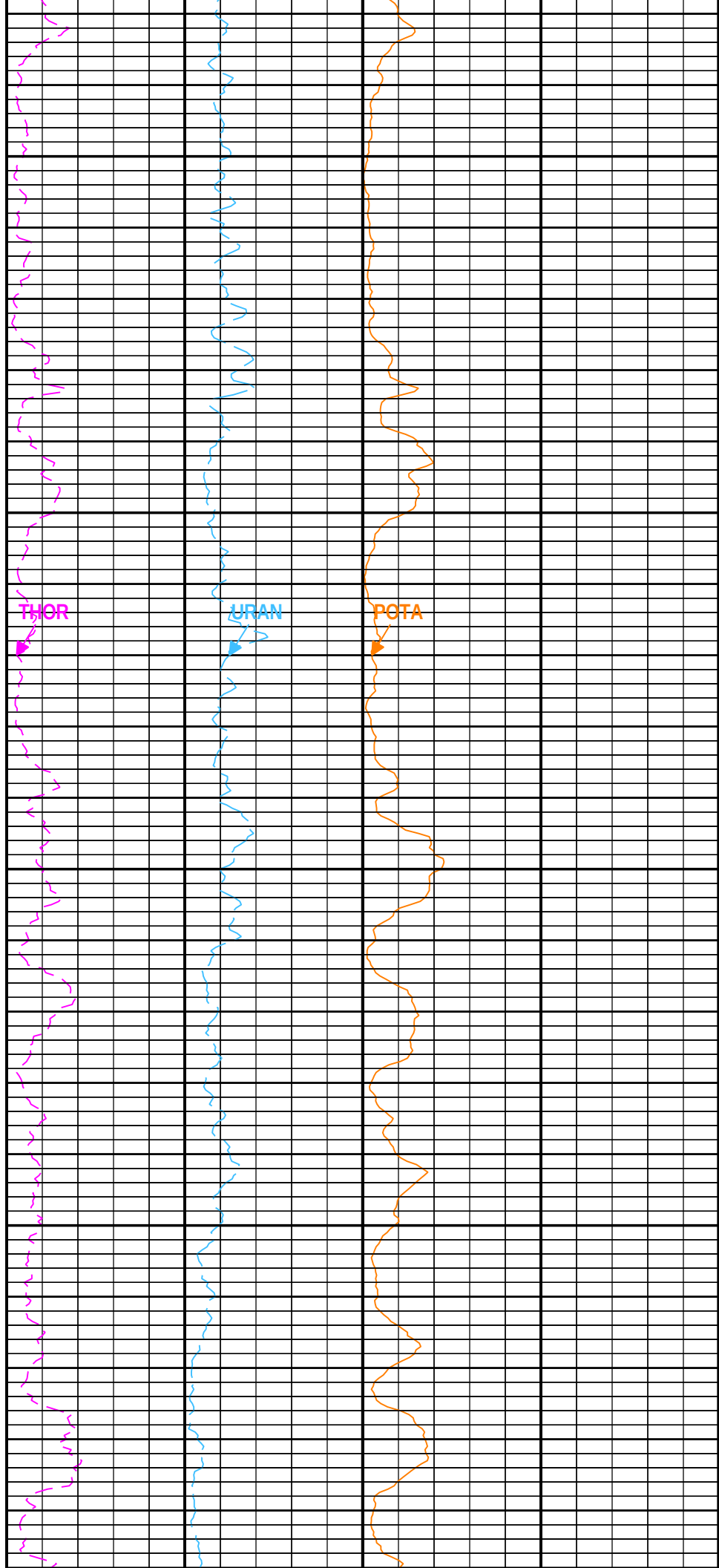
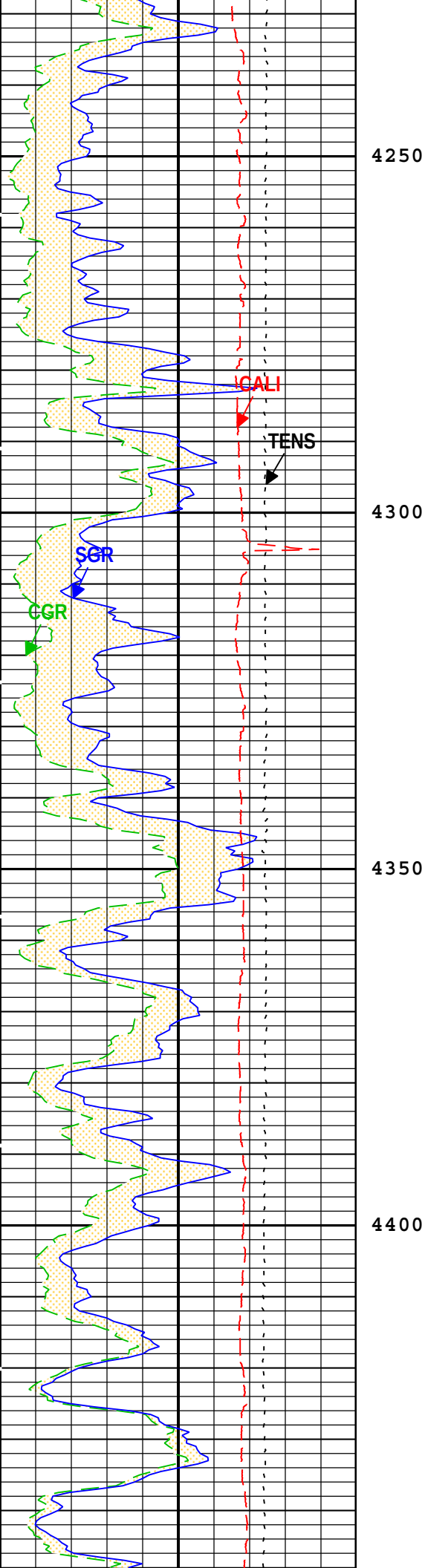


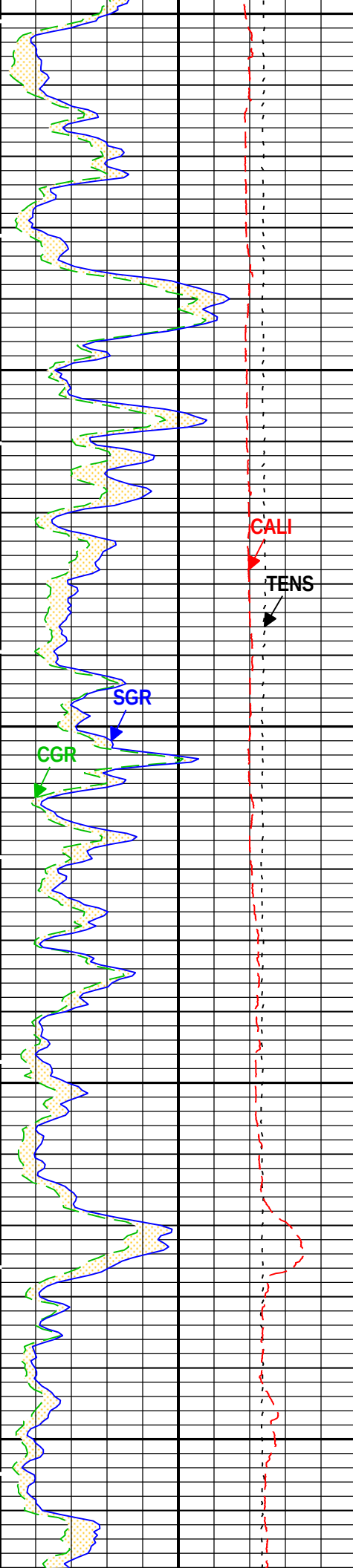


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3850
3900
3950
4000









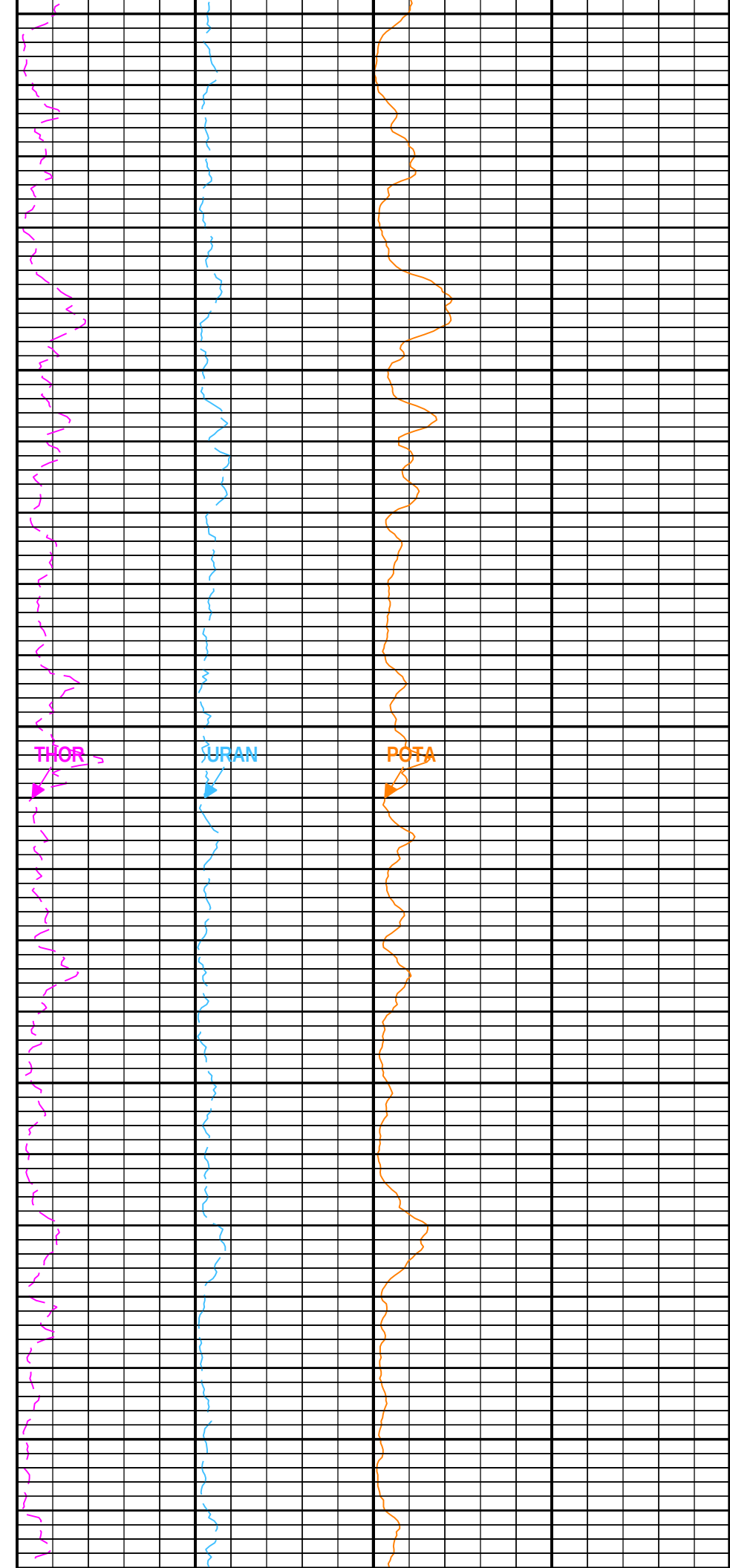
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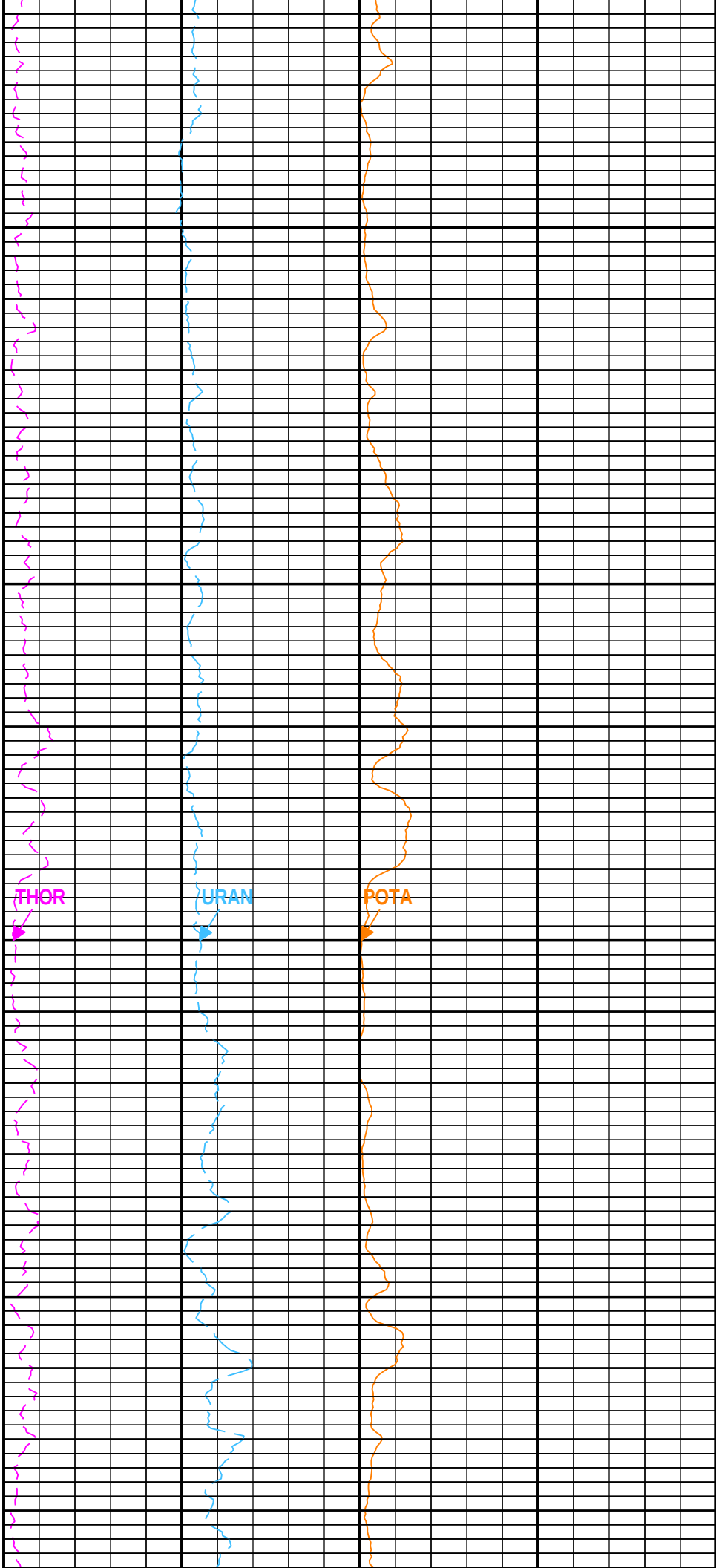
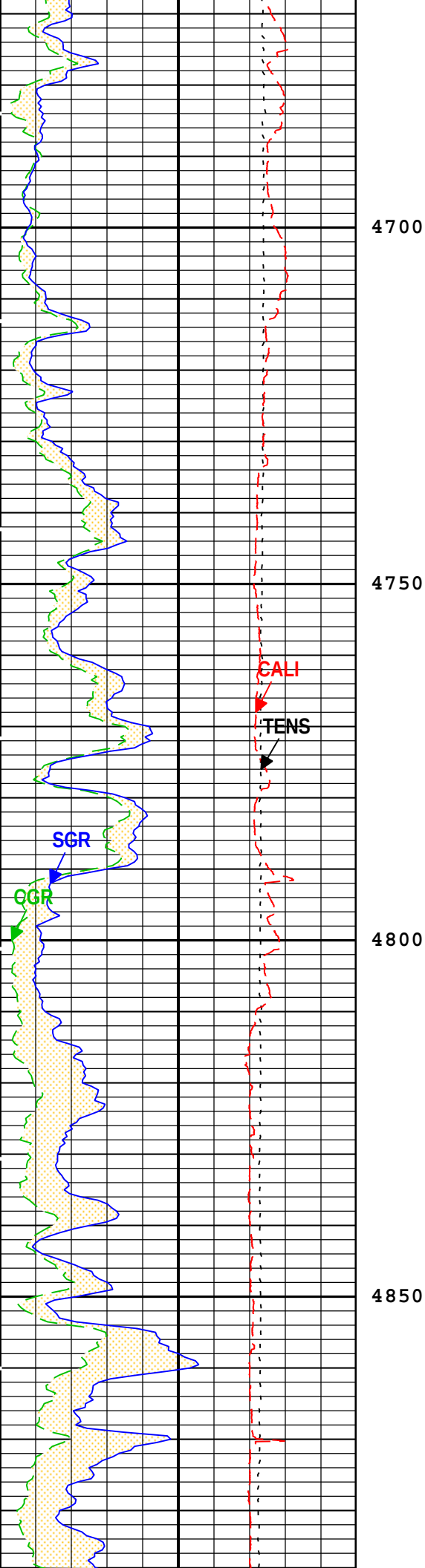
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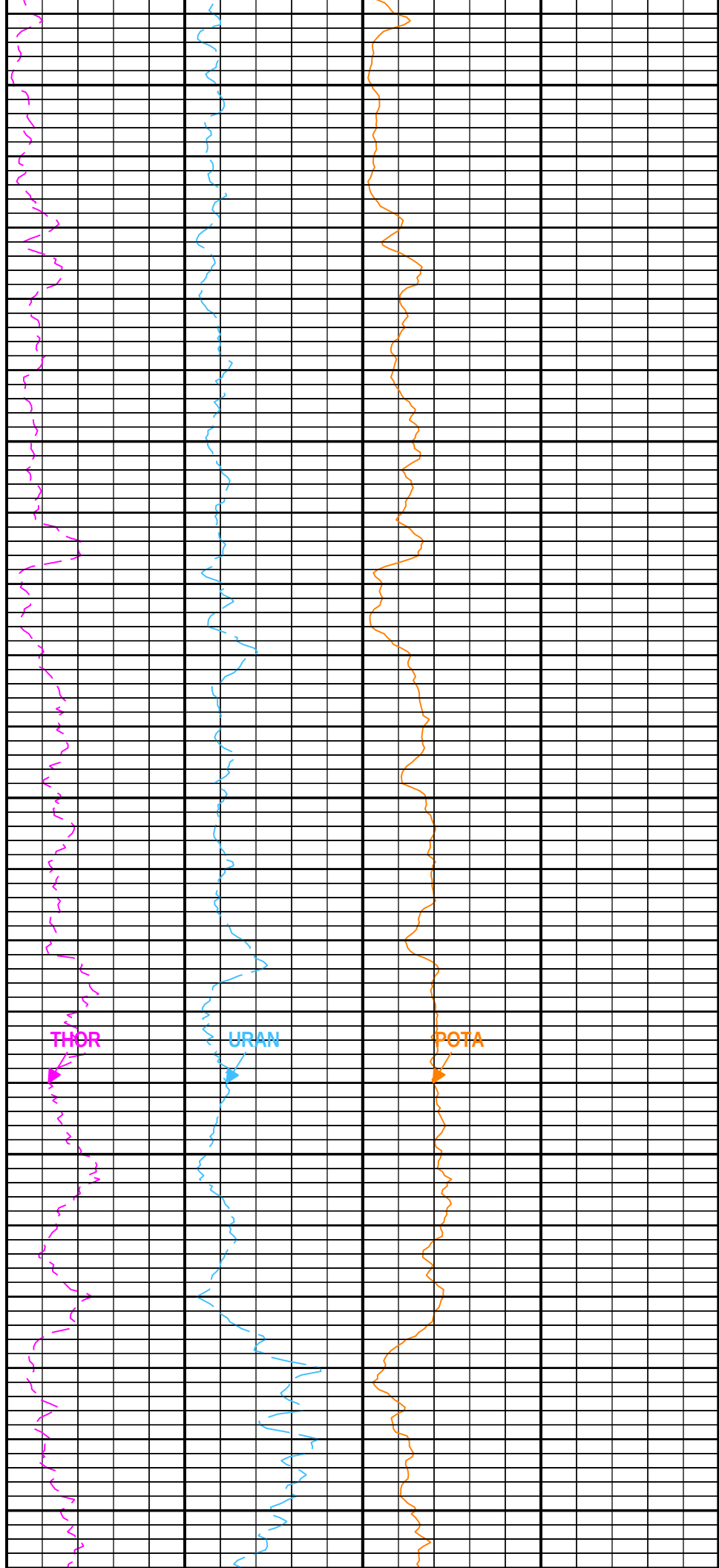
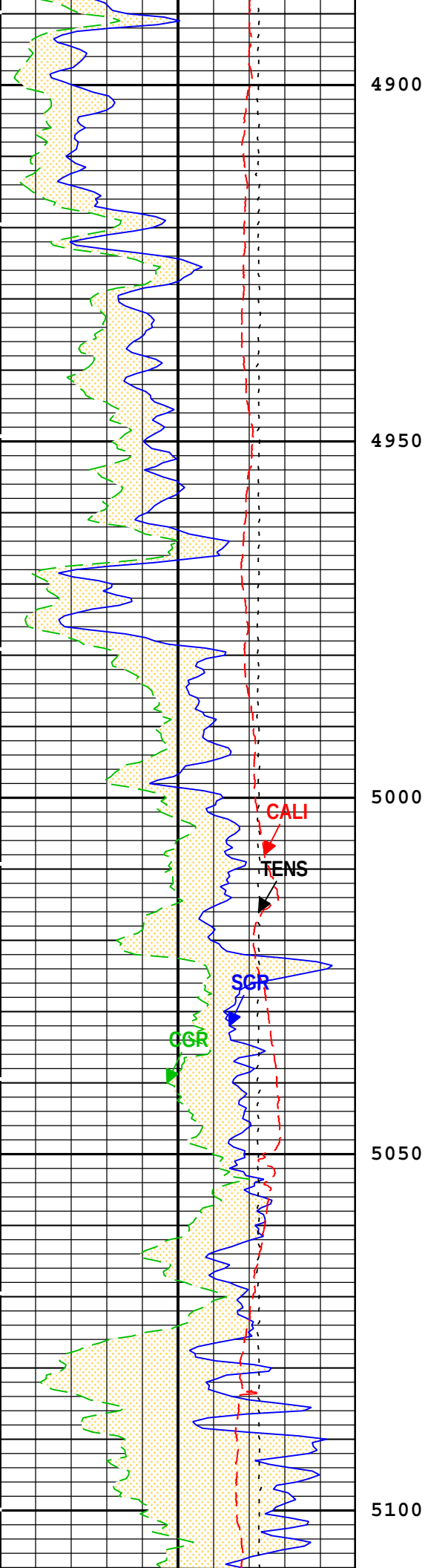
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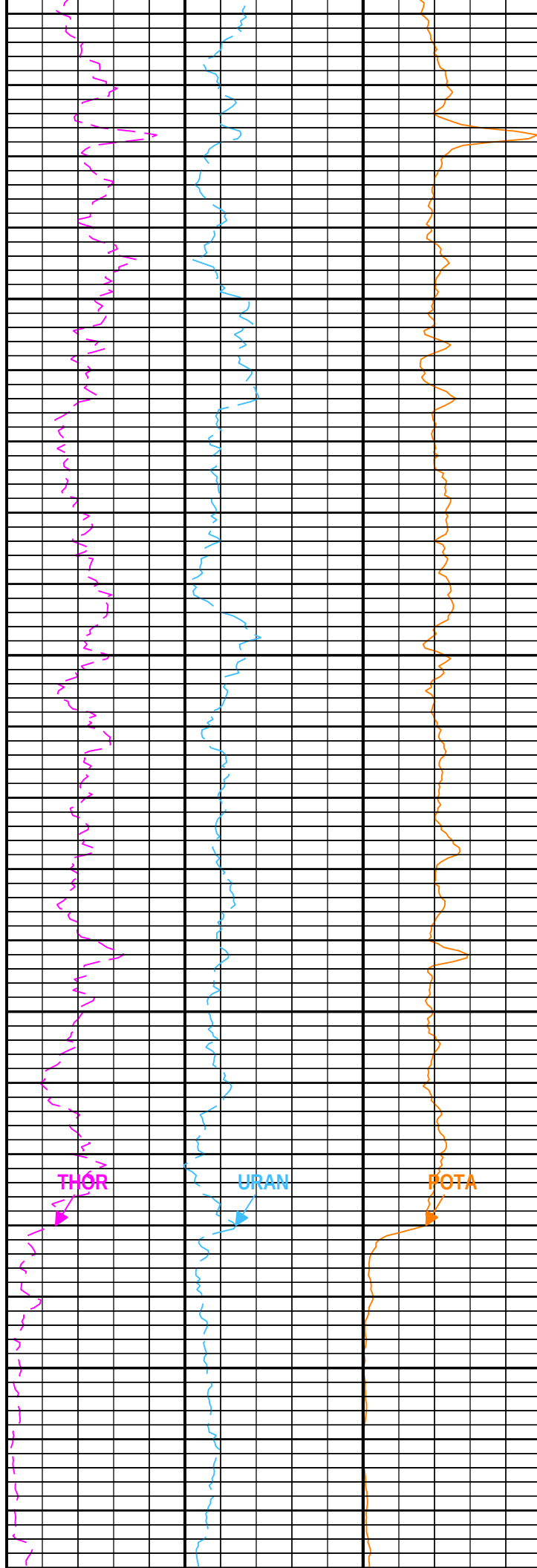
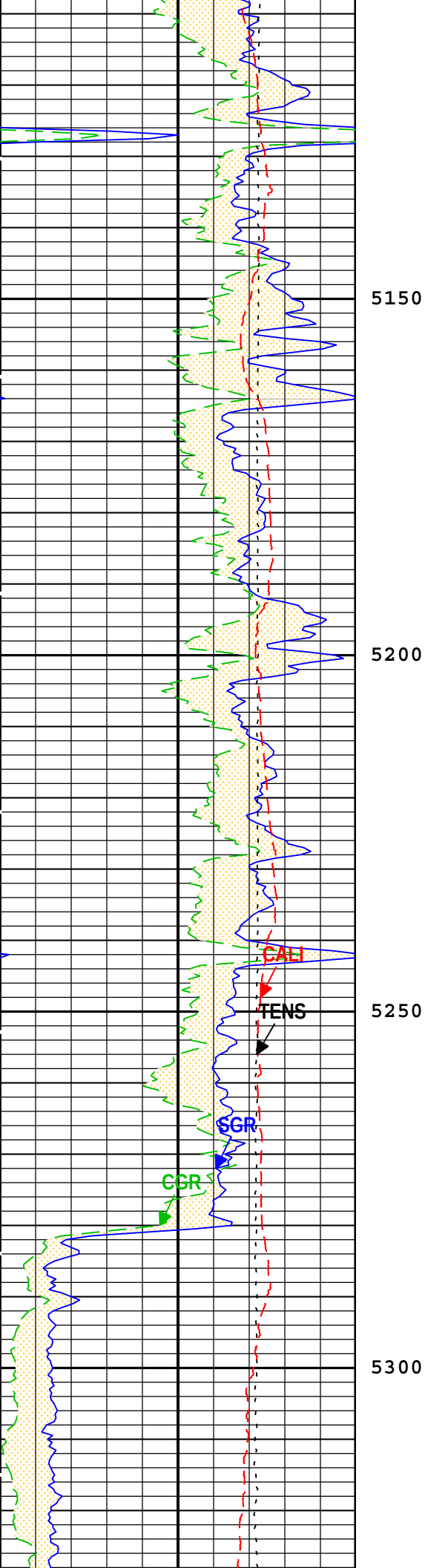
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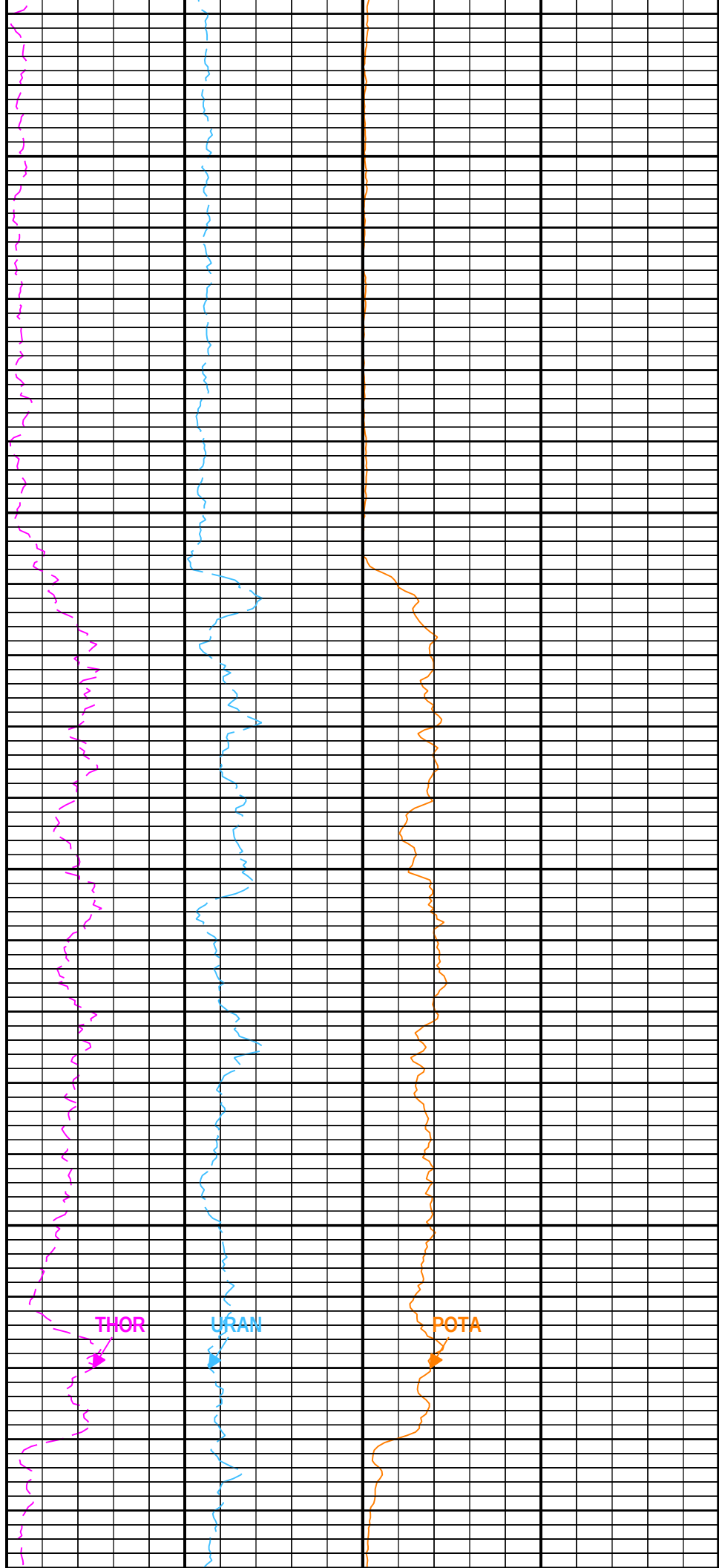
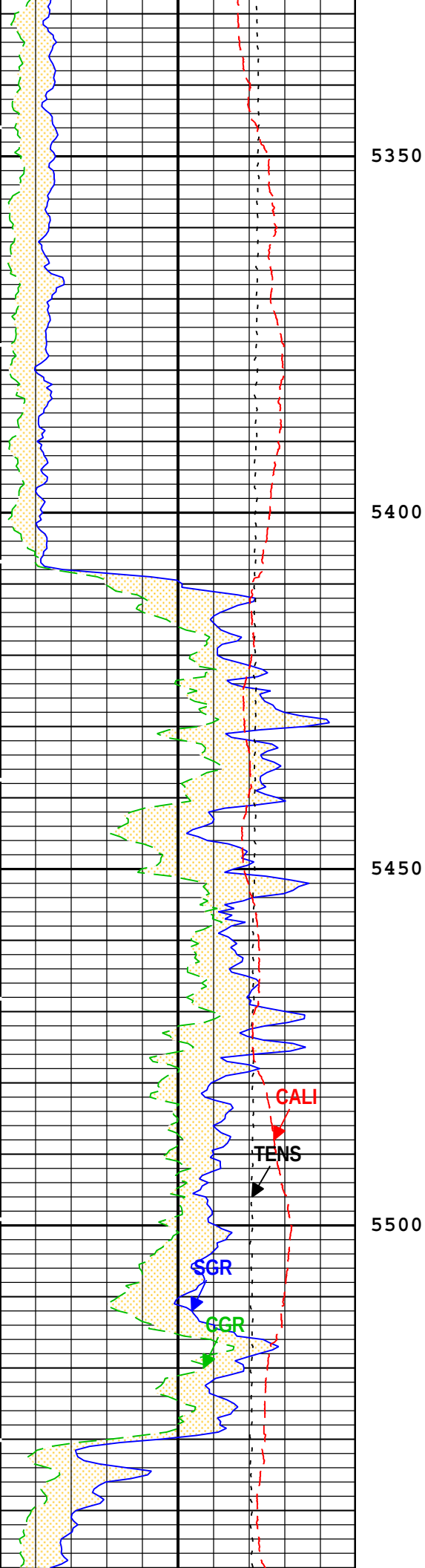
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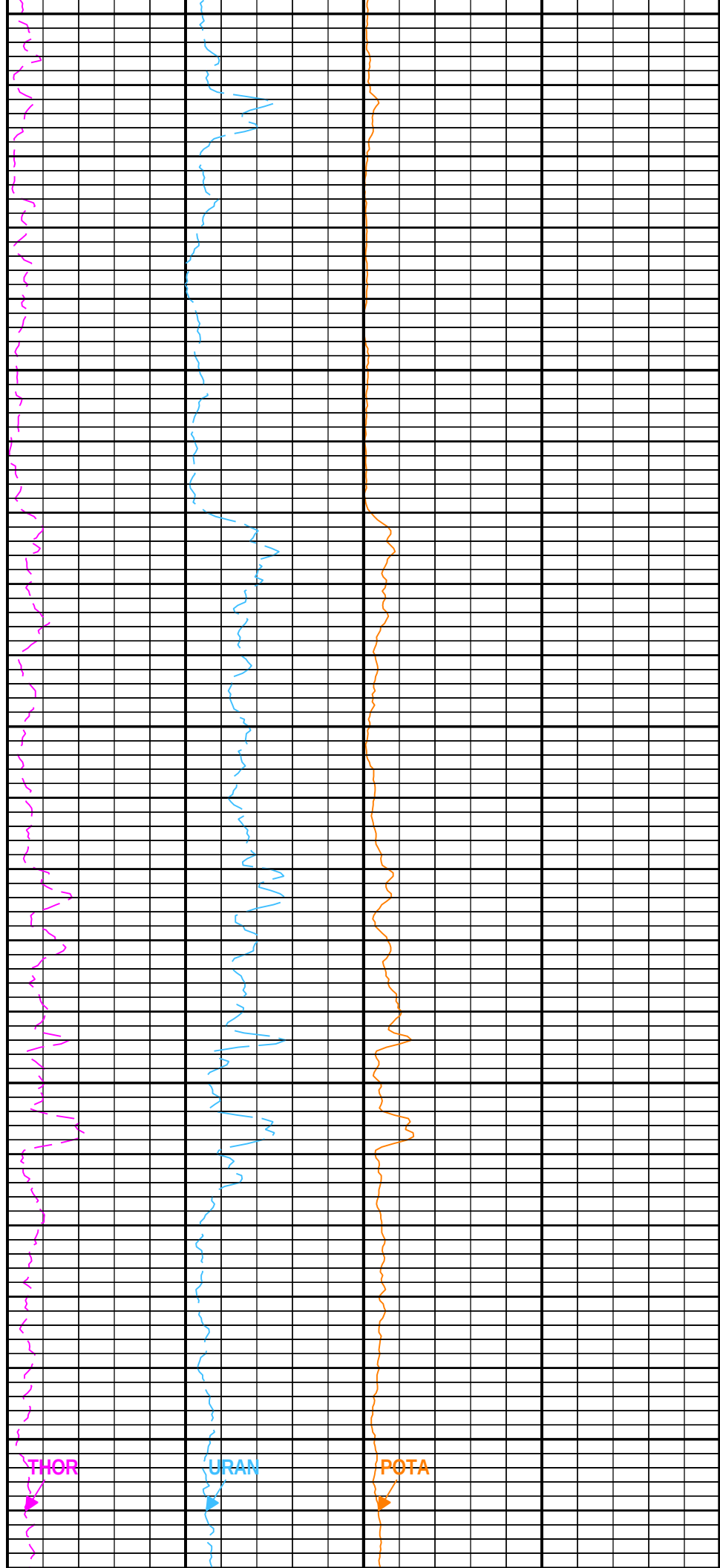
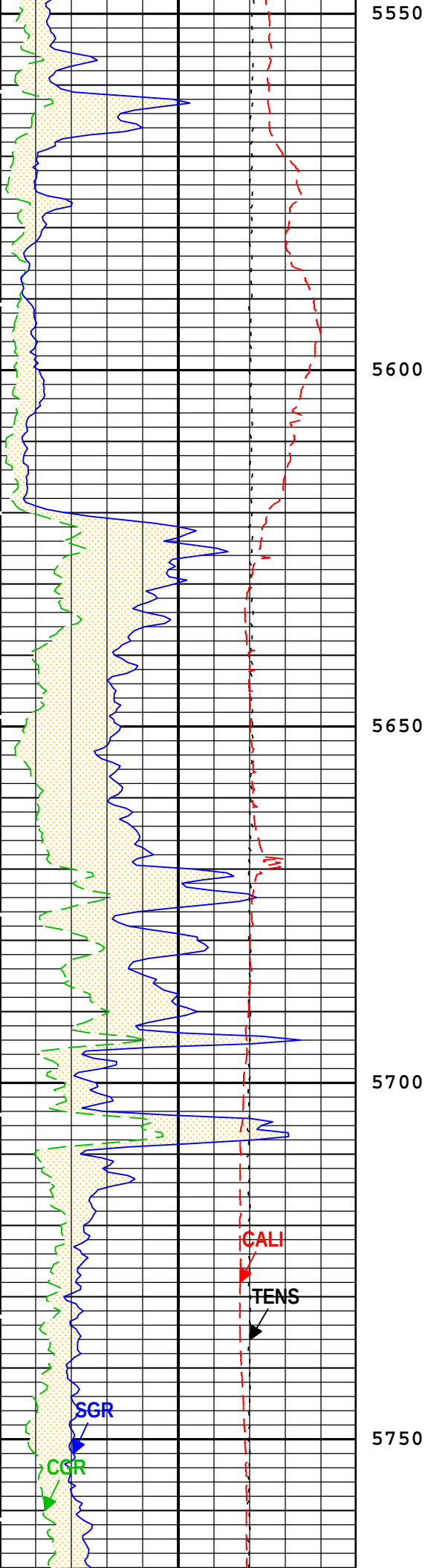


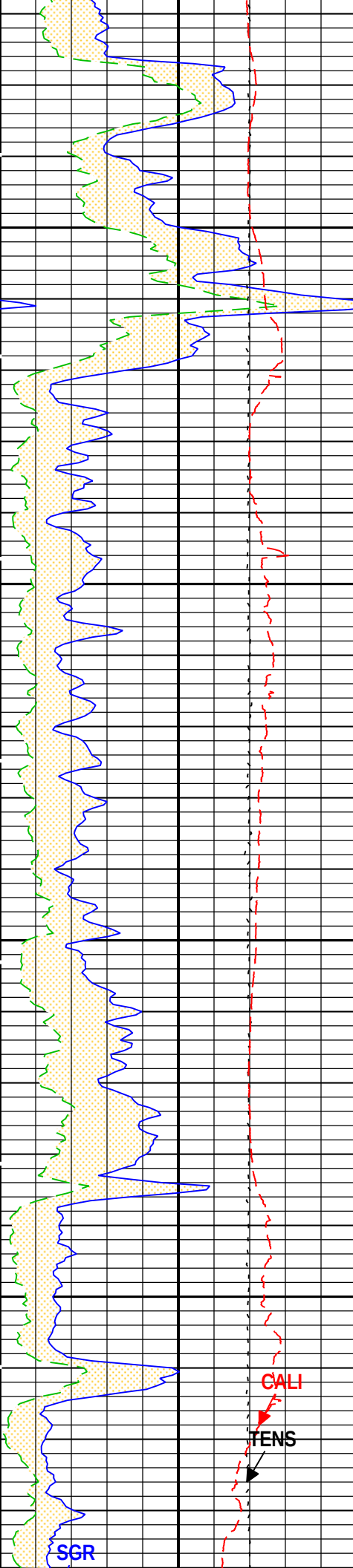












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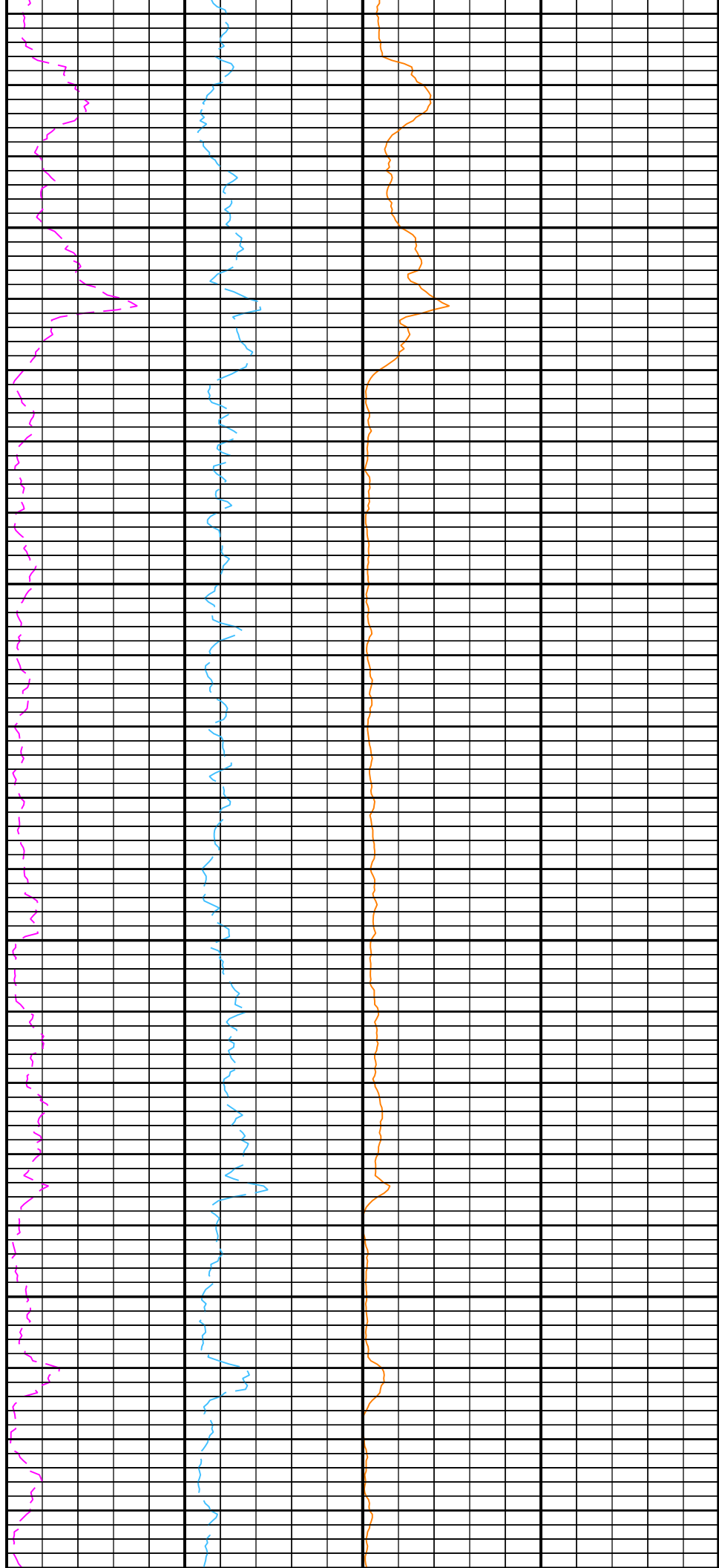
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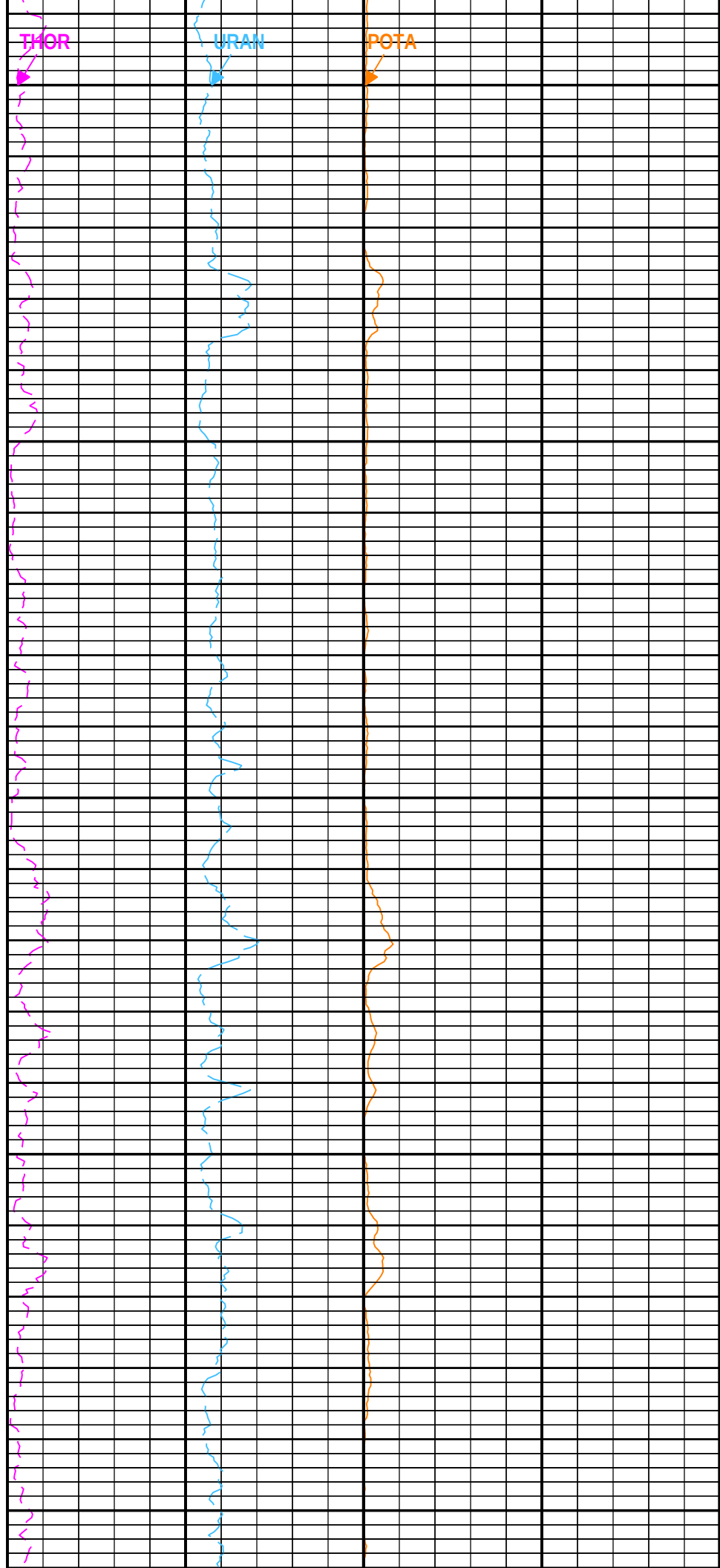
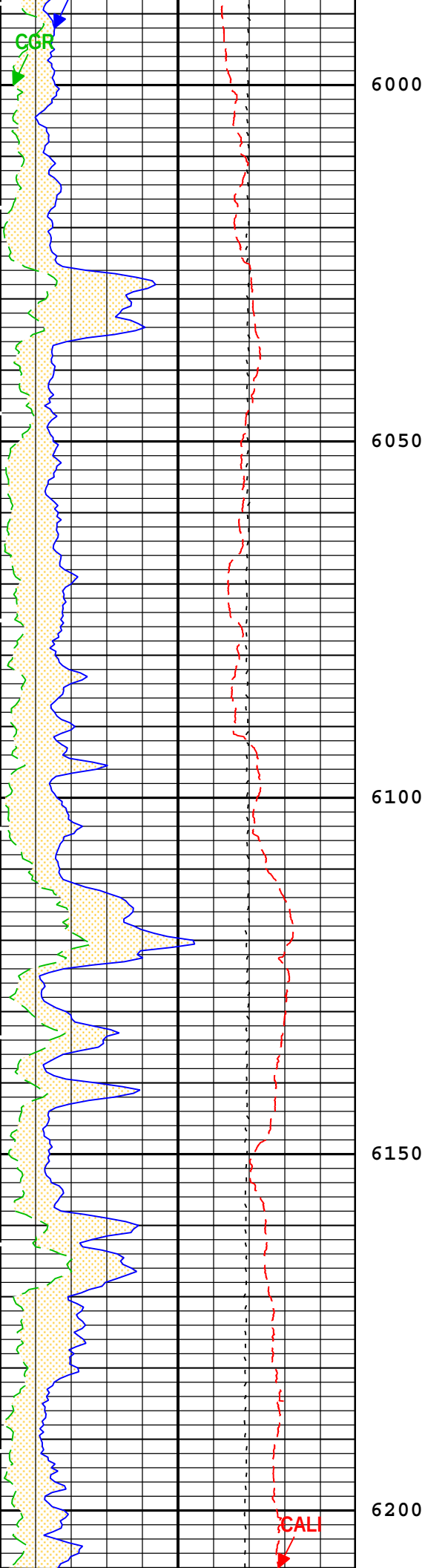
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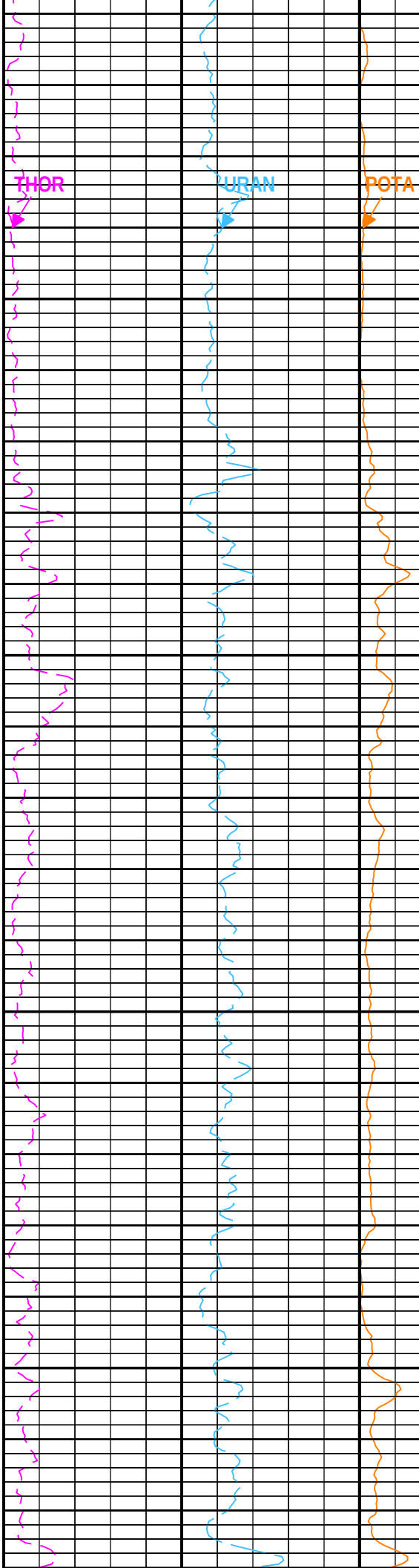
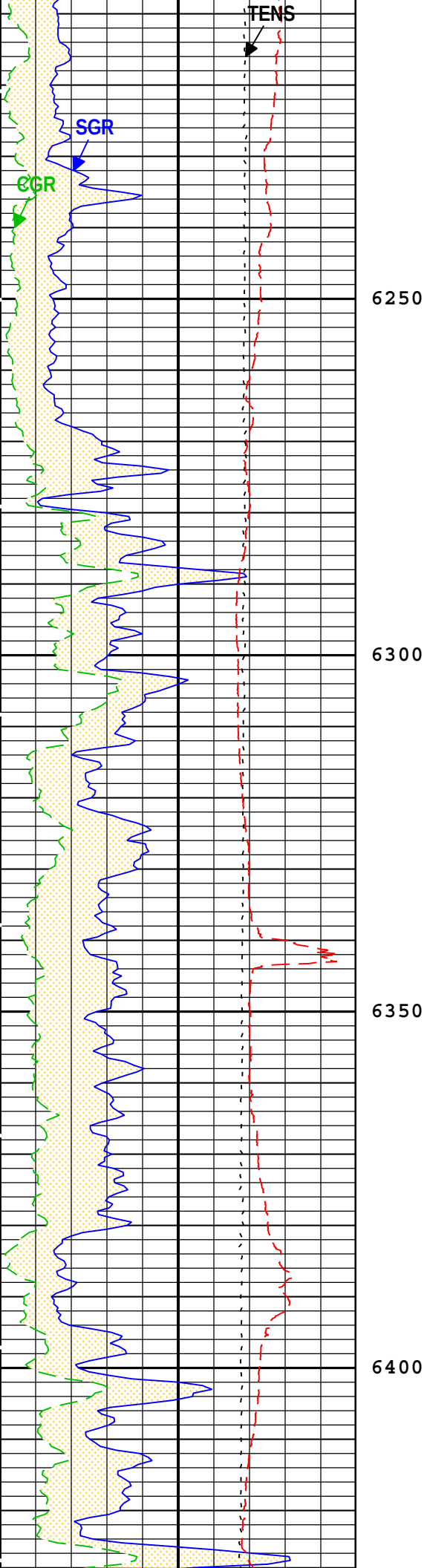
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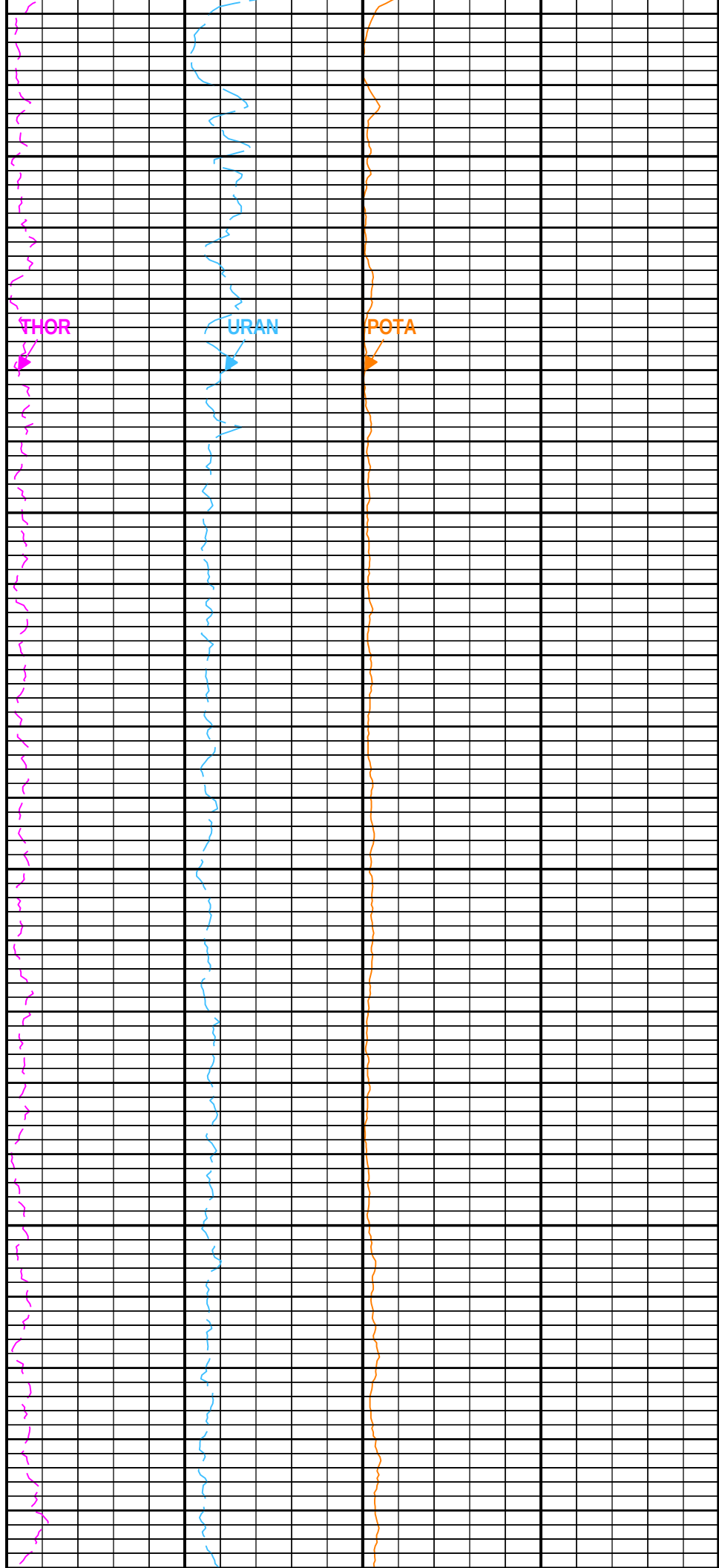
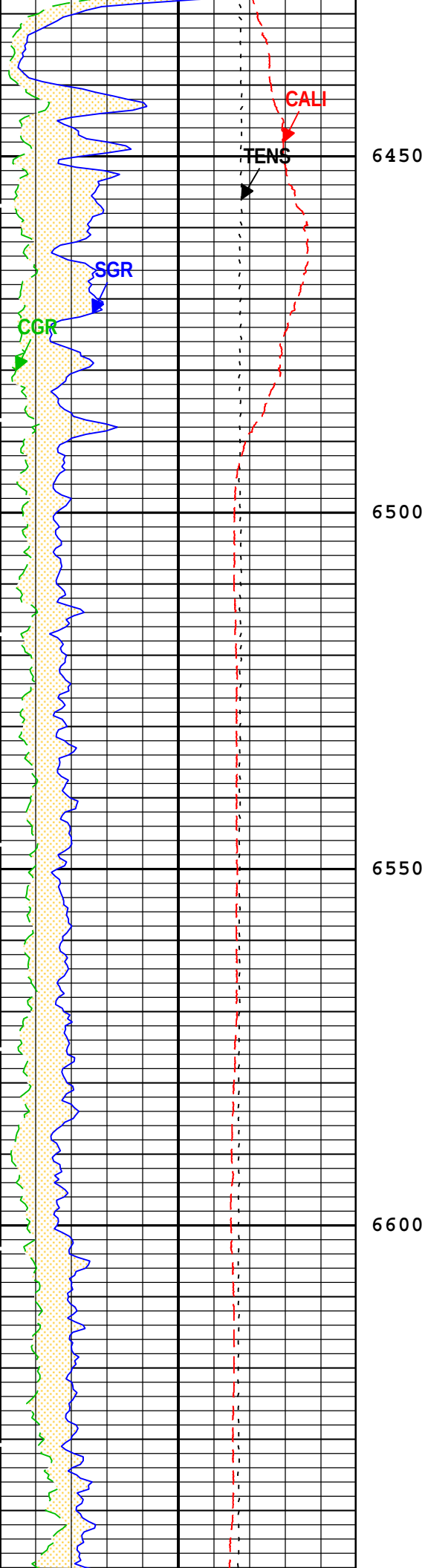
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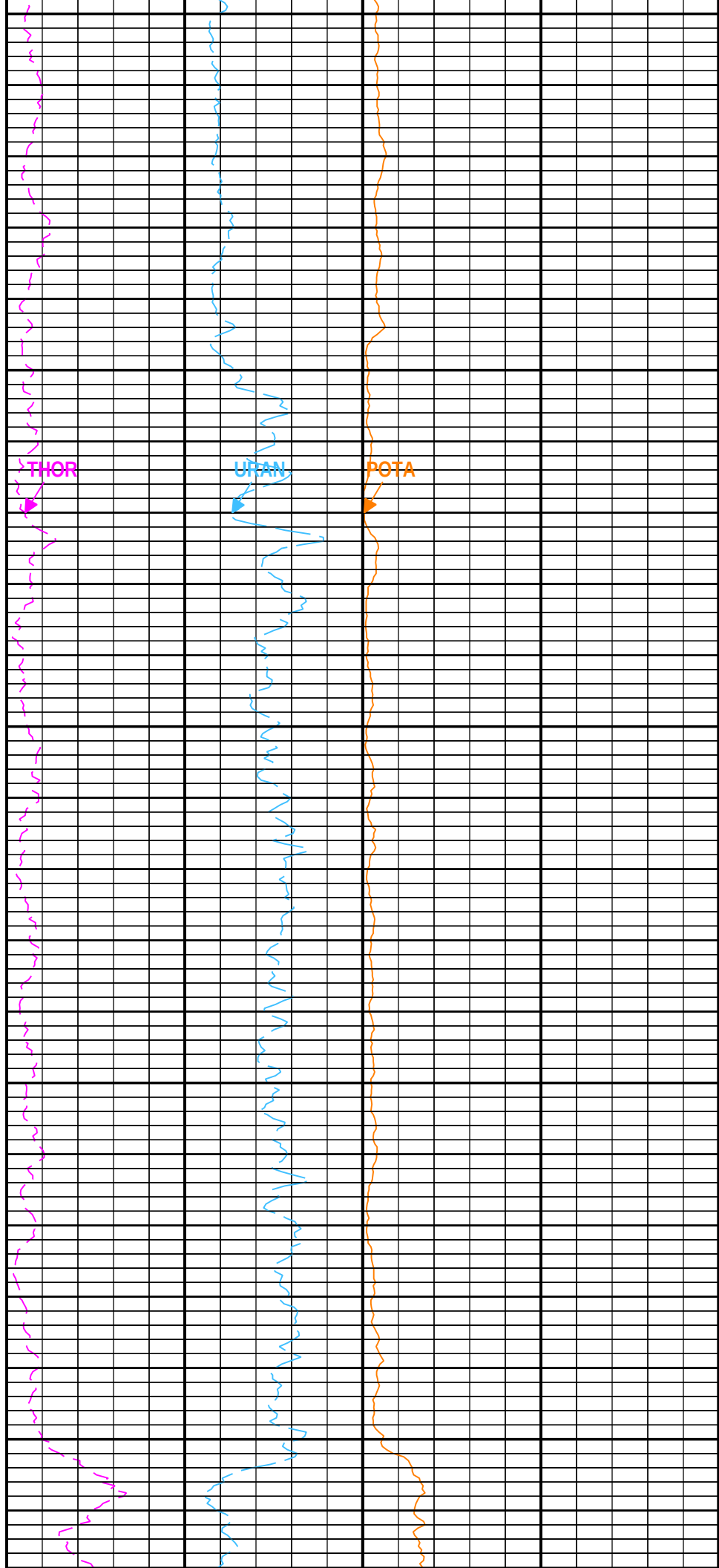
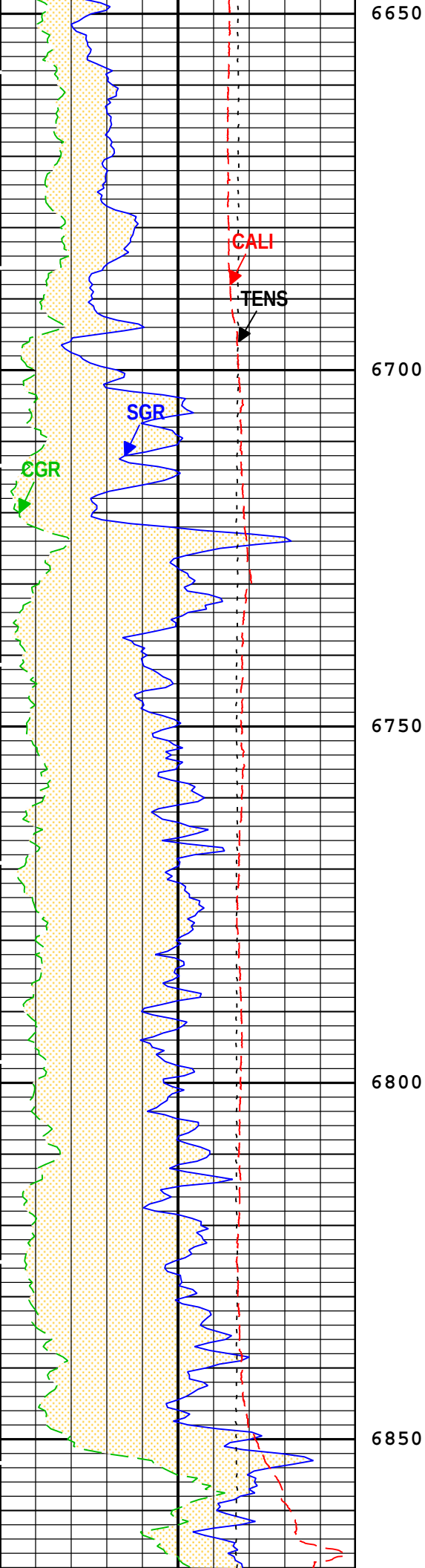
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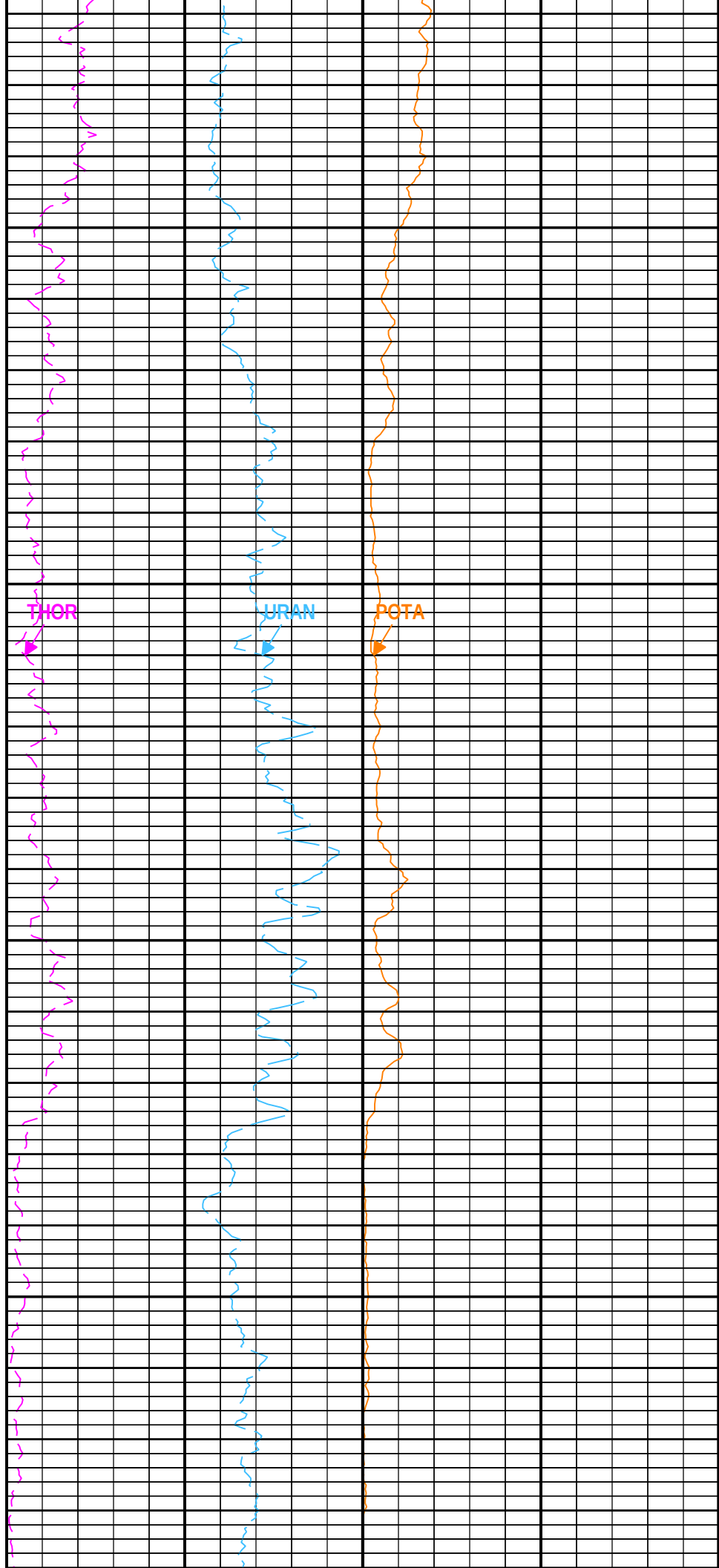
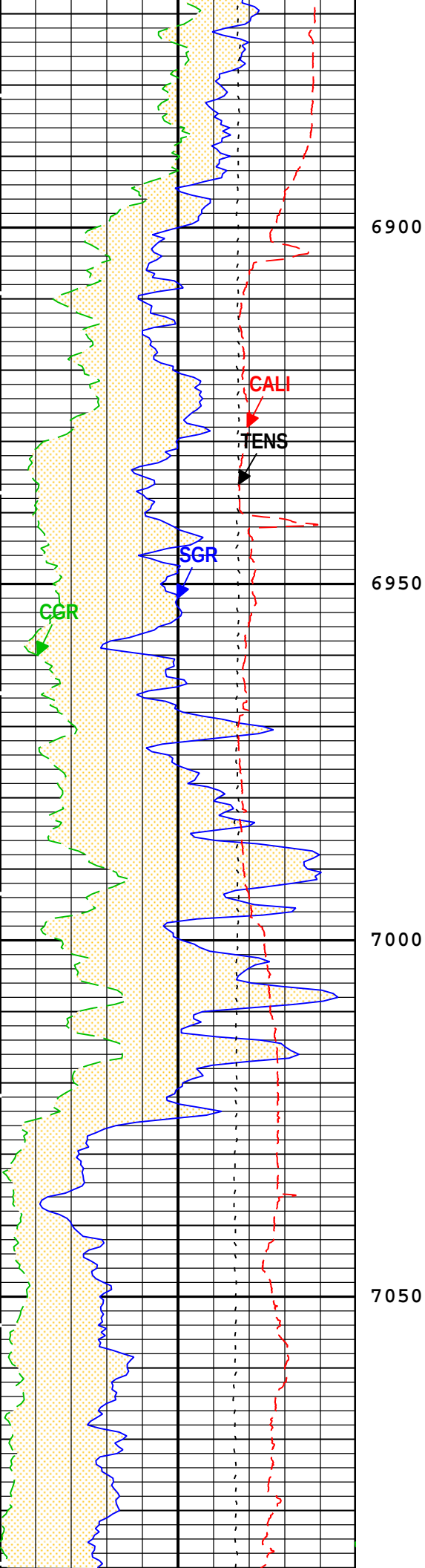


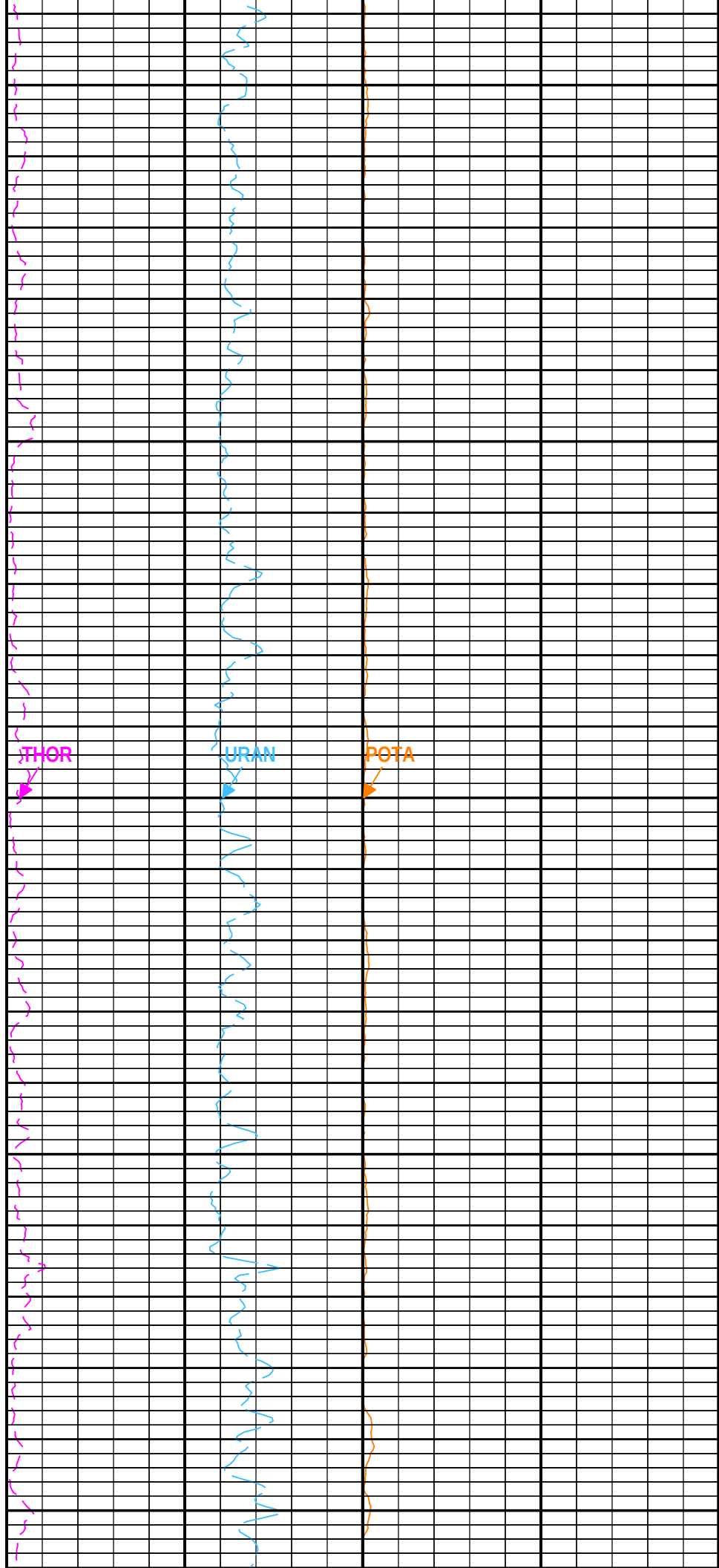
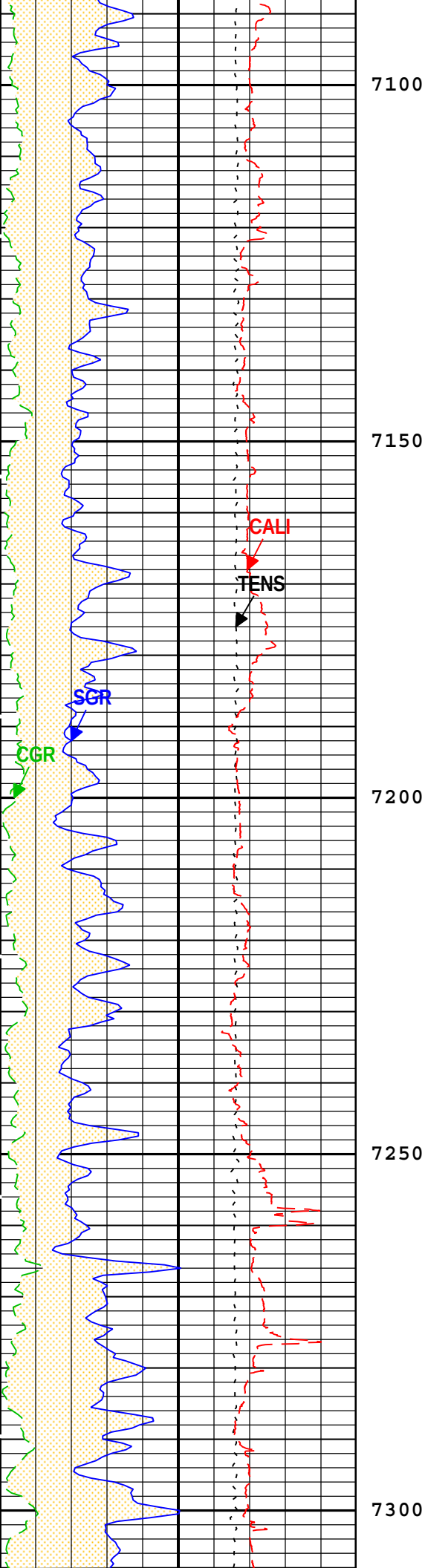


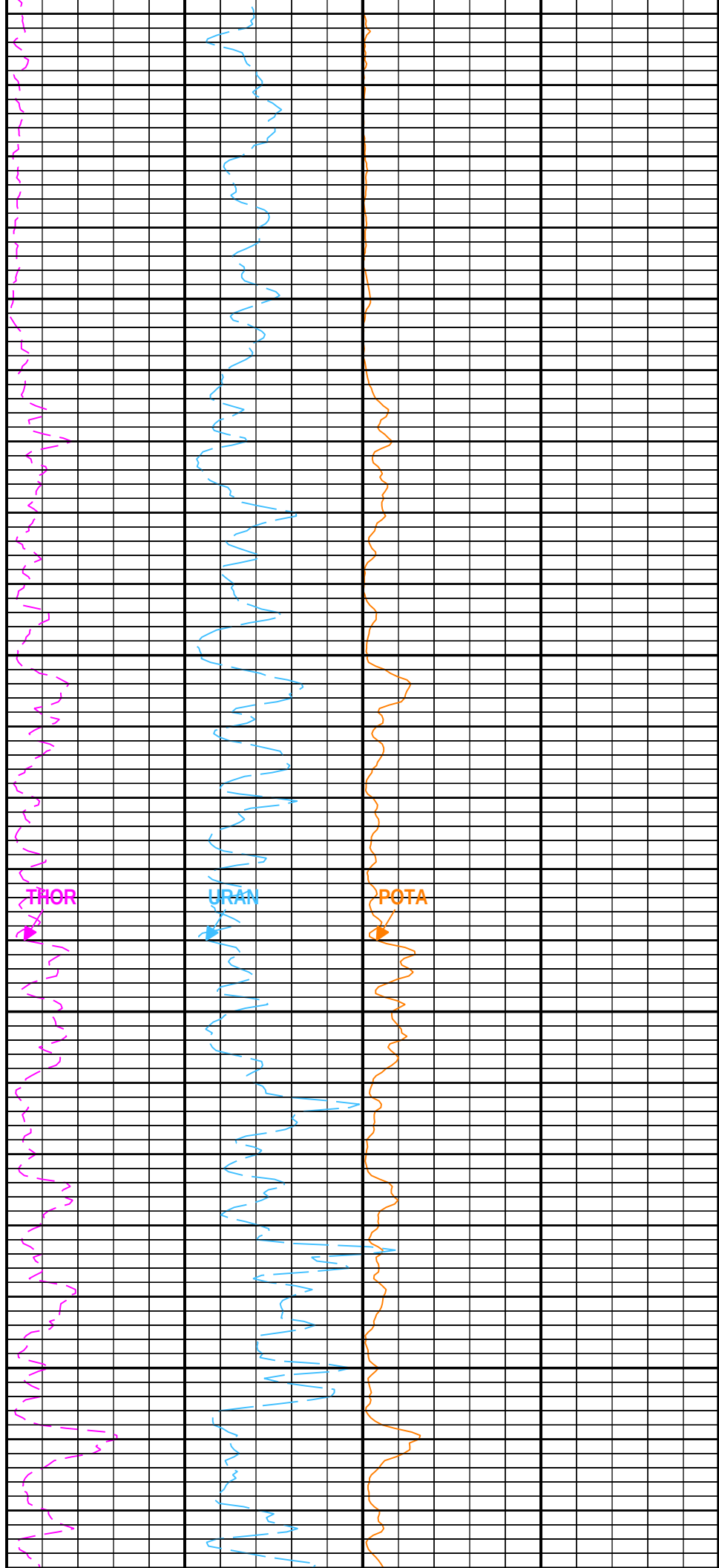
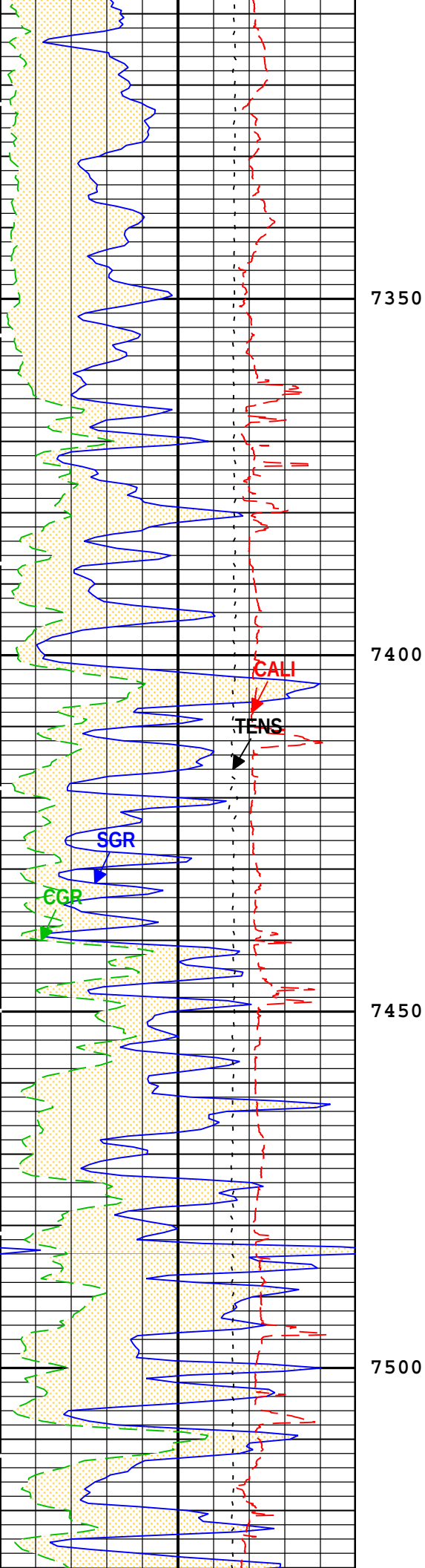


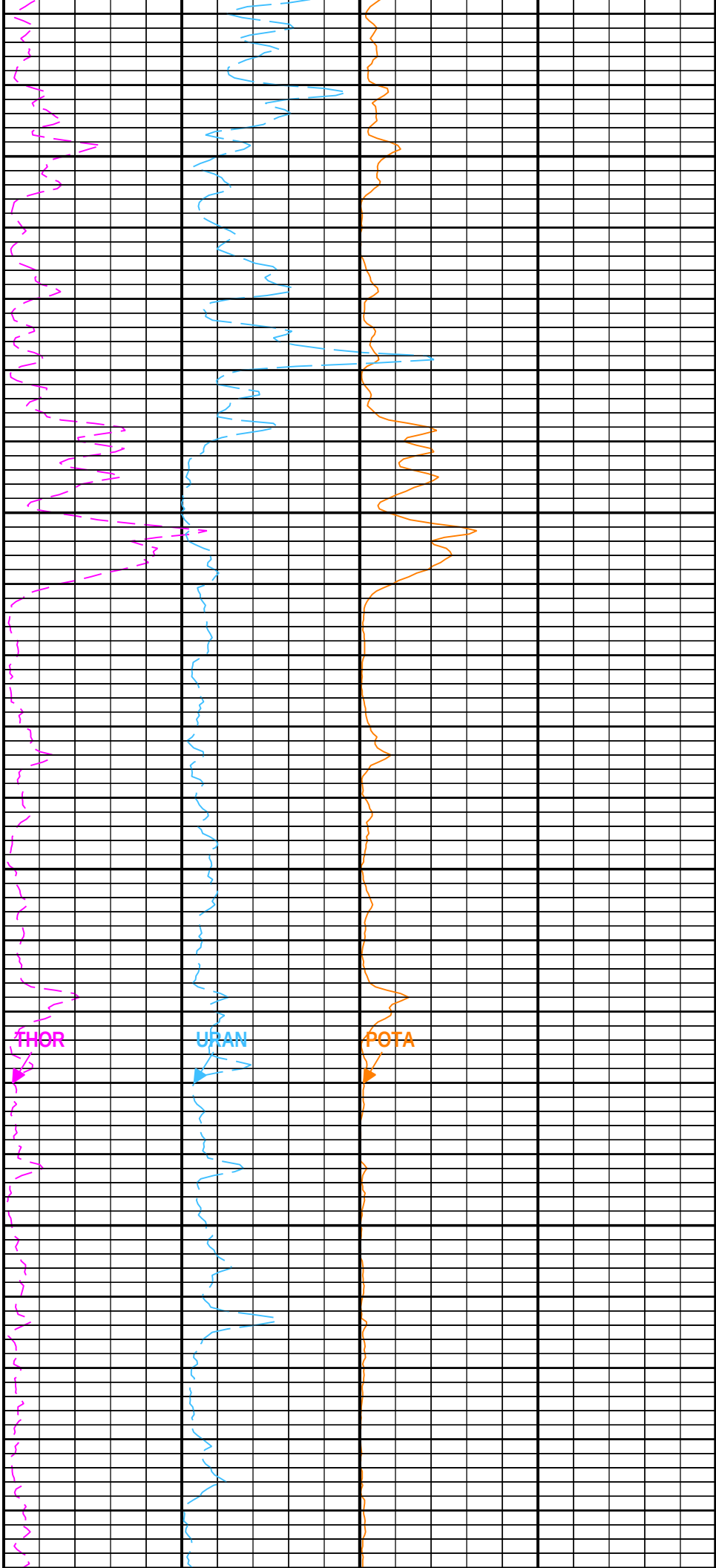
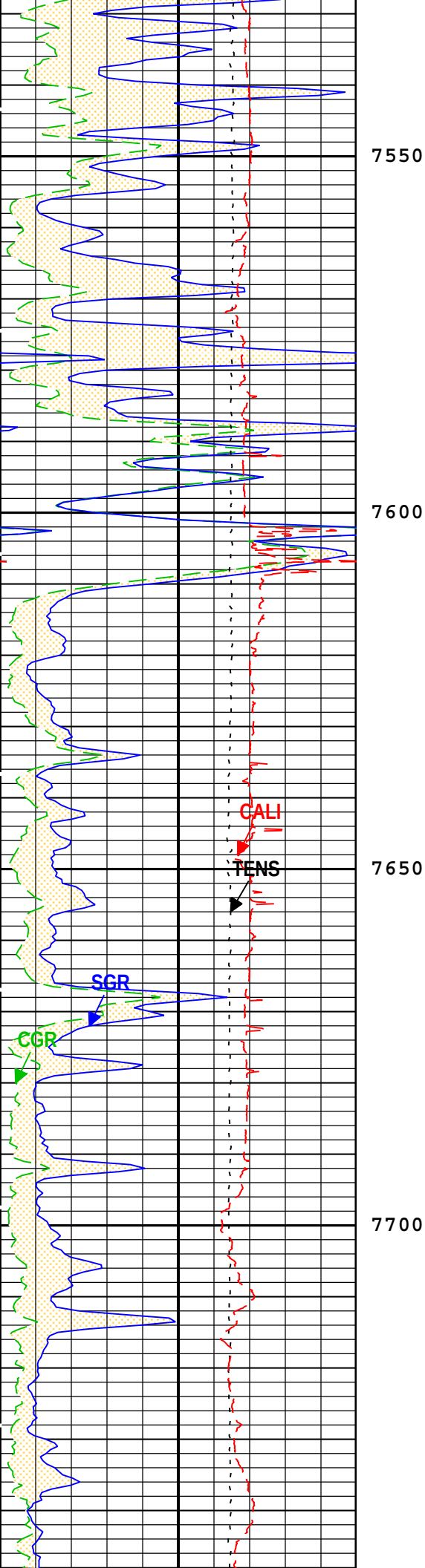


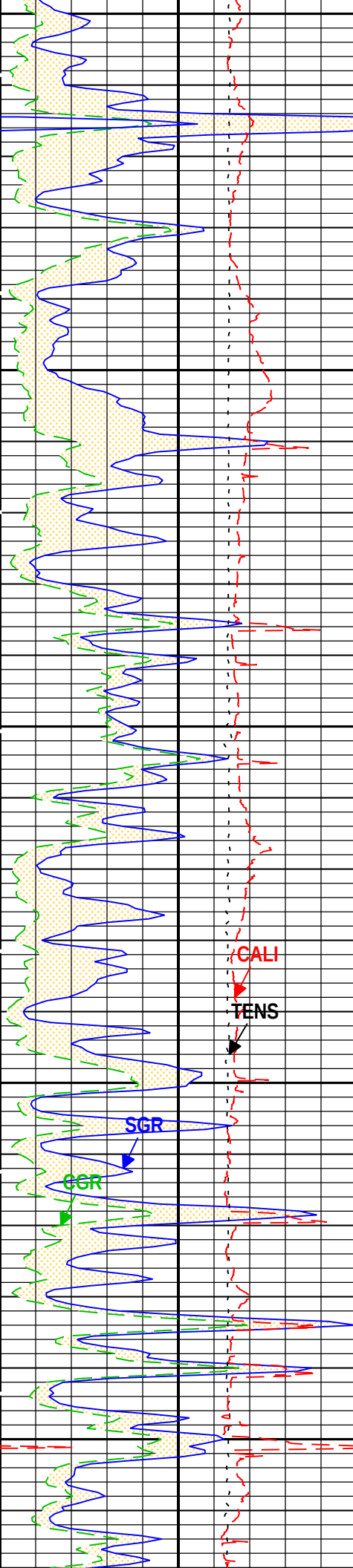












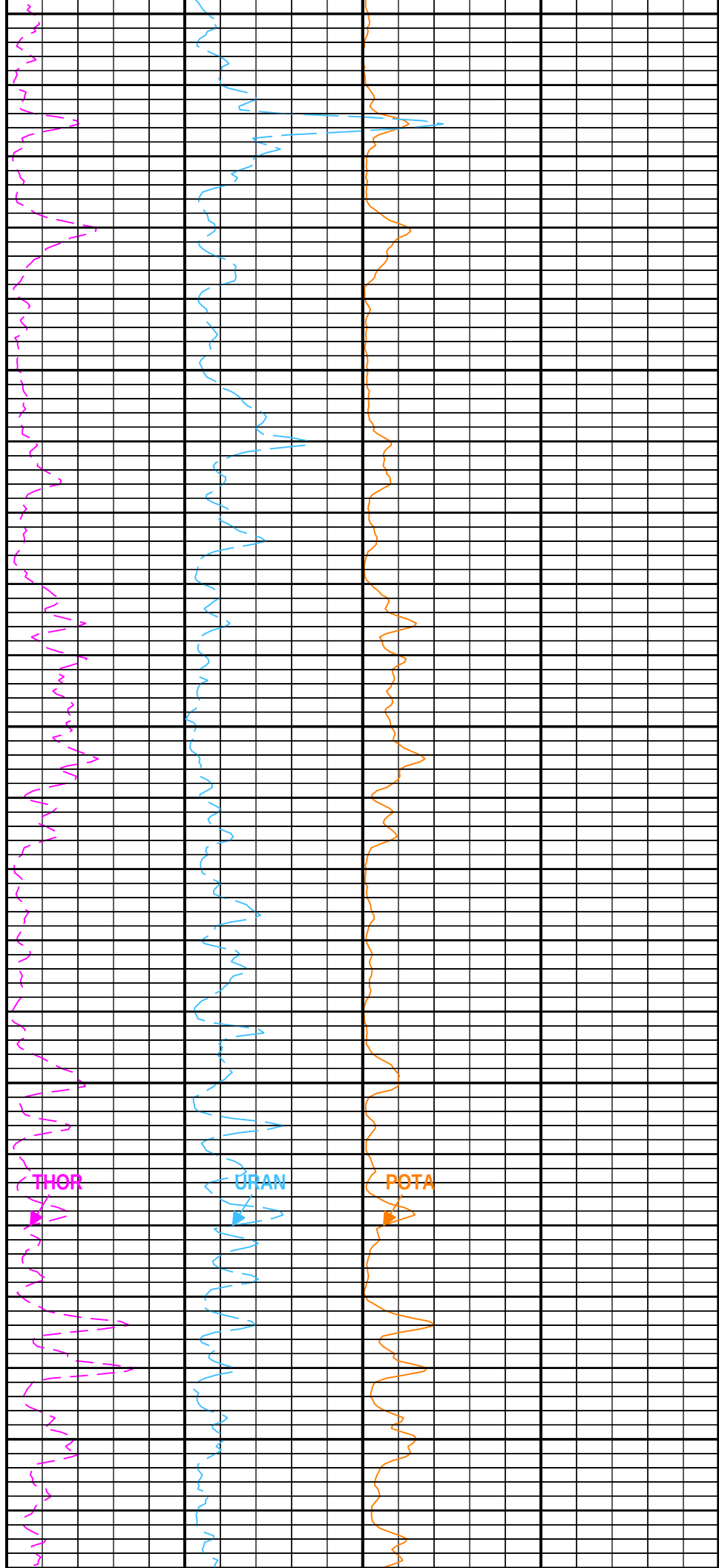
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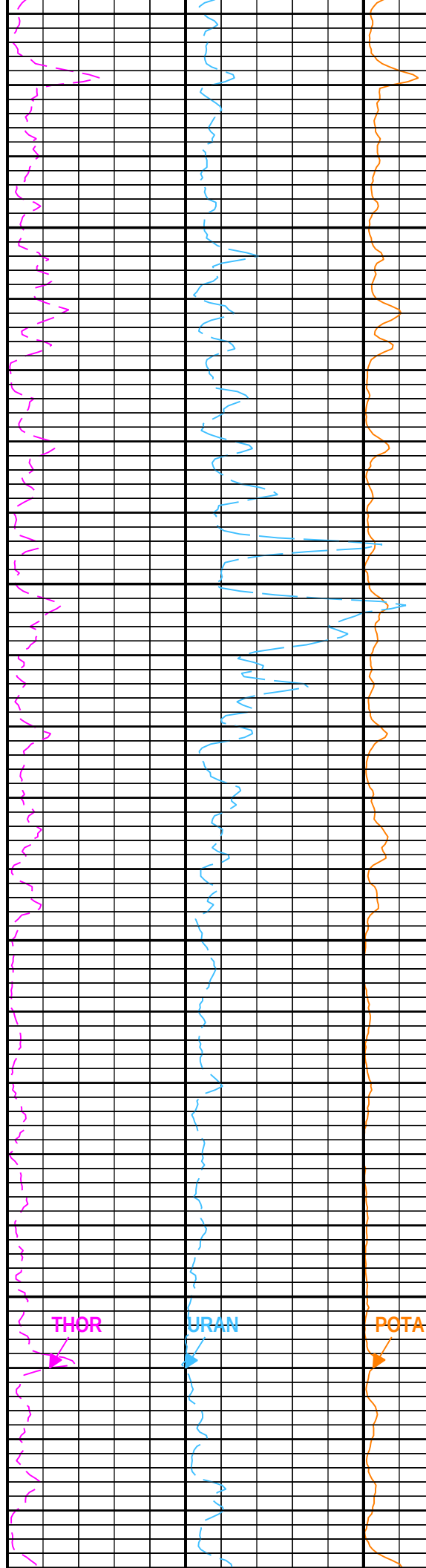
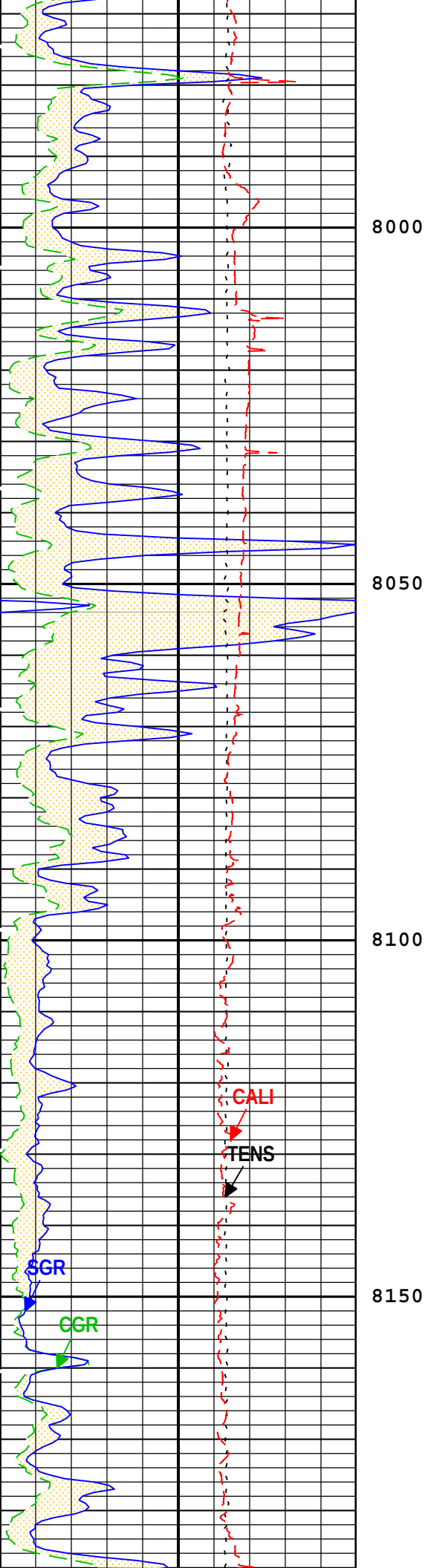
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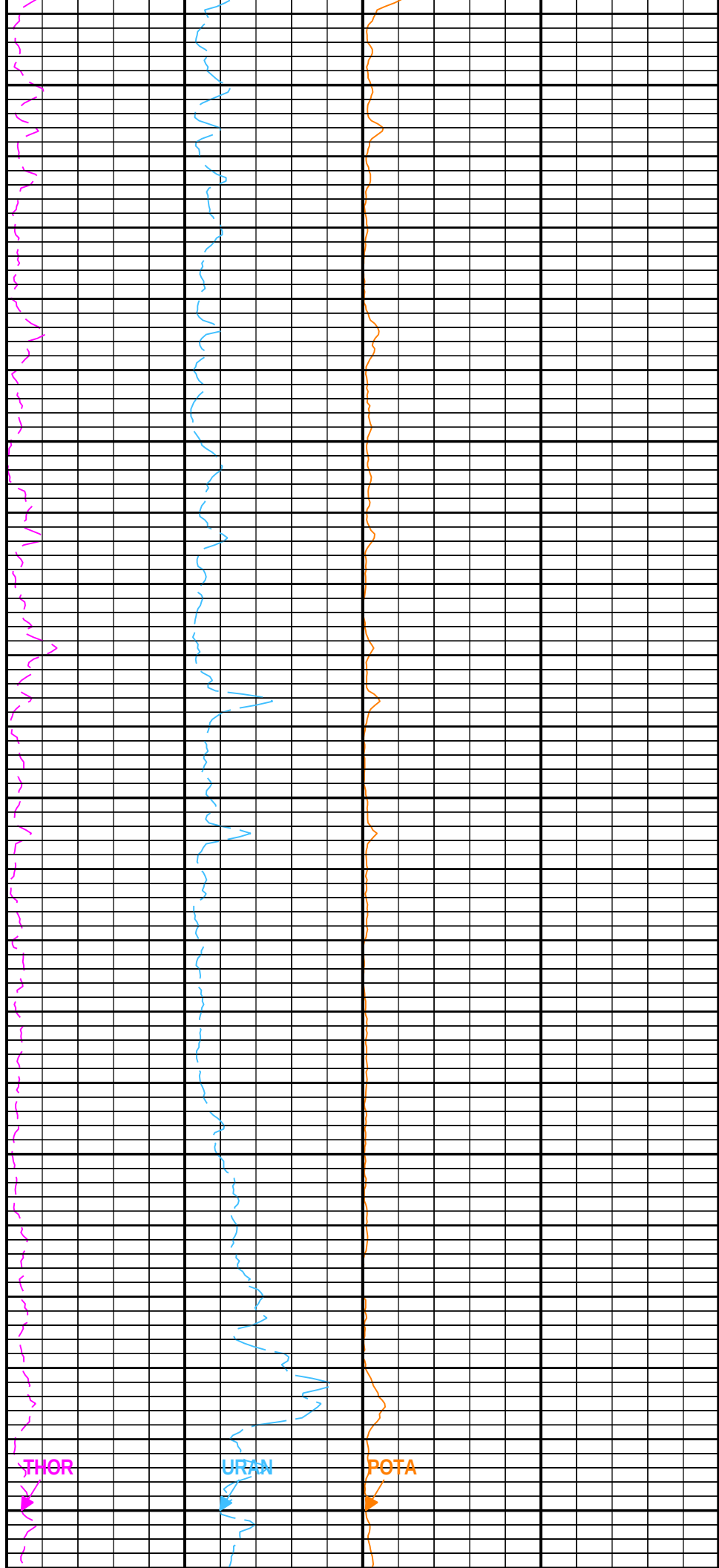
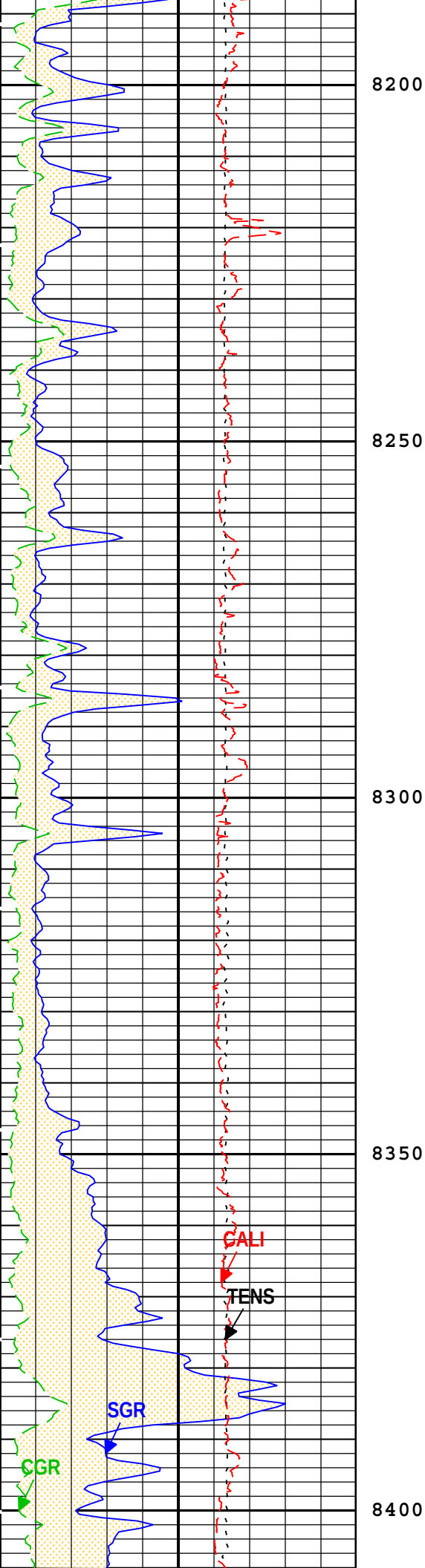
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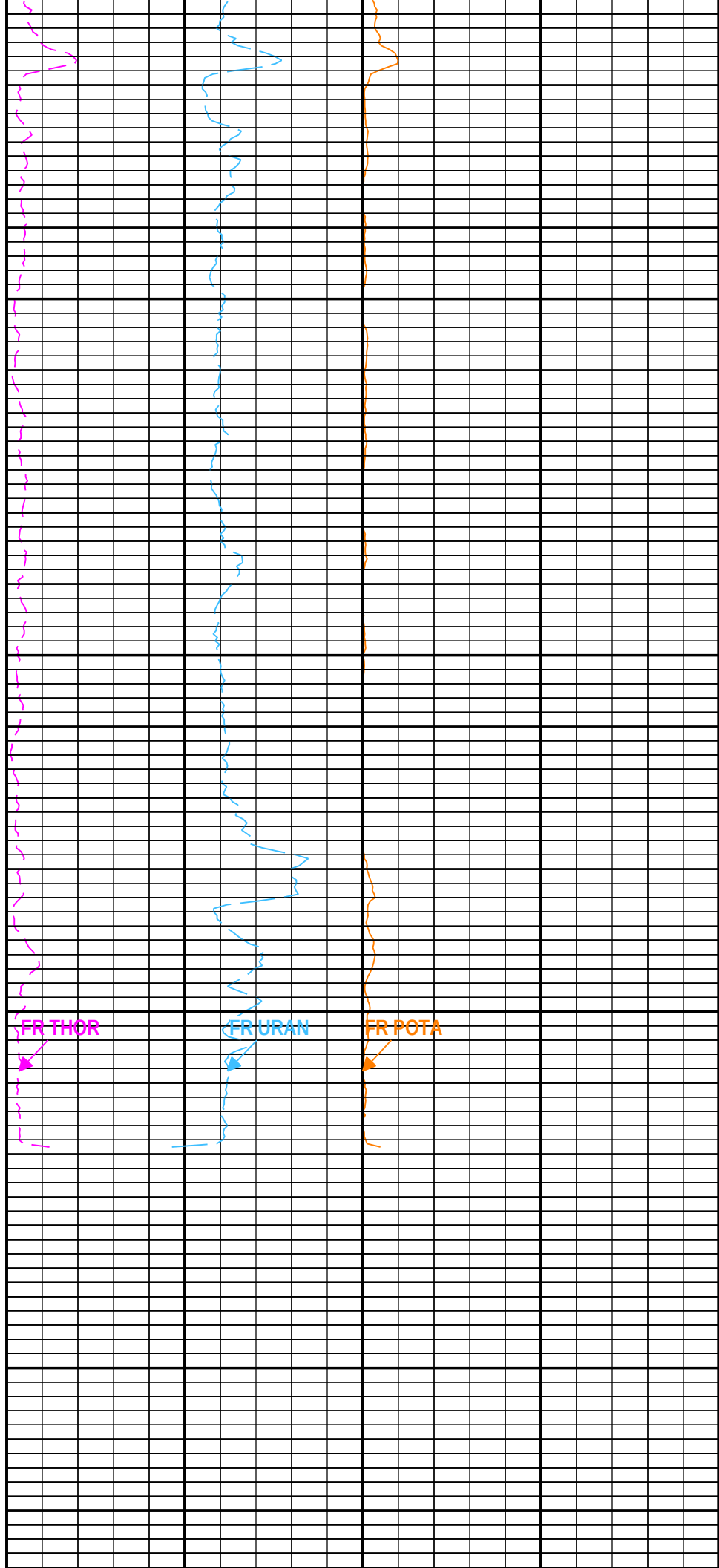
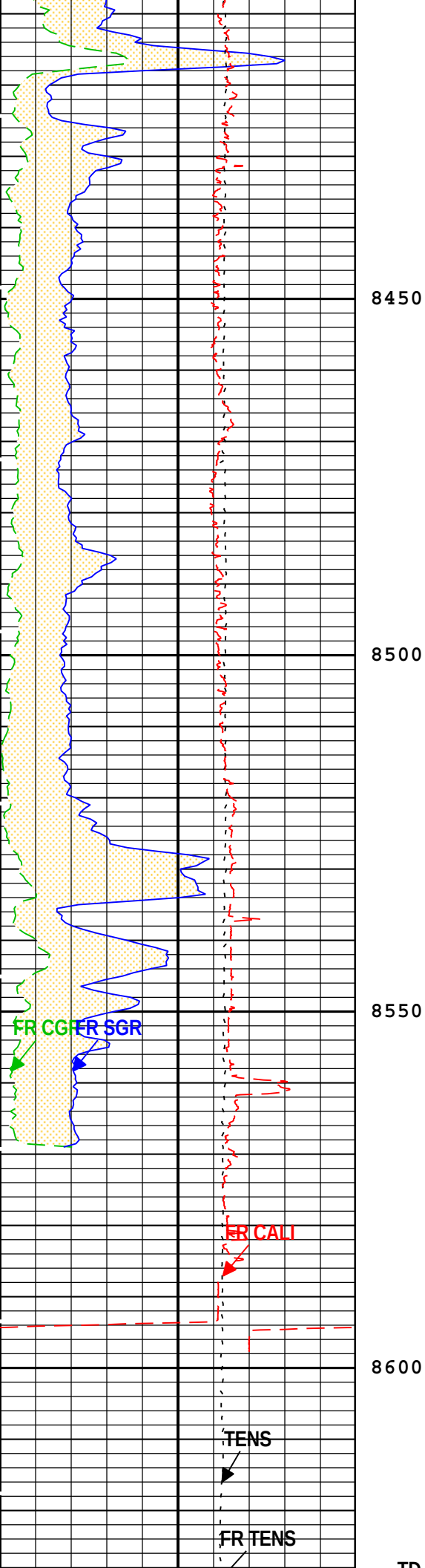
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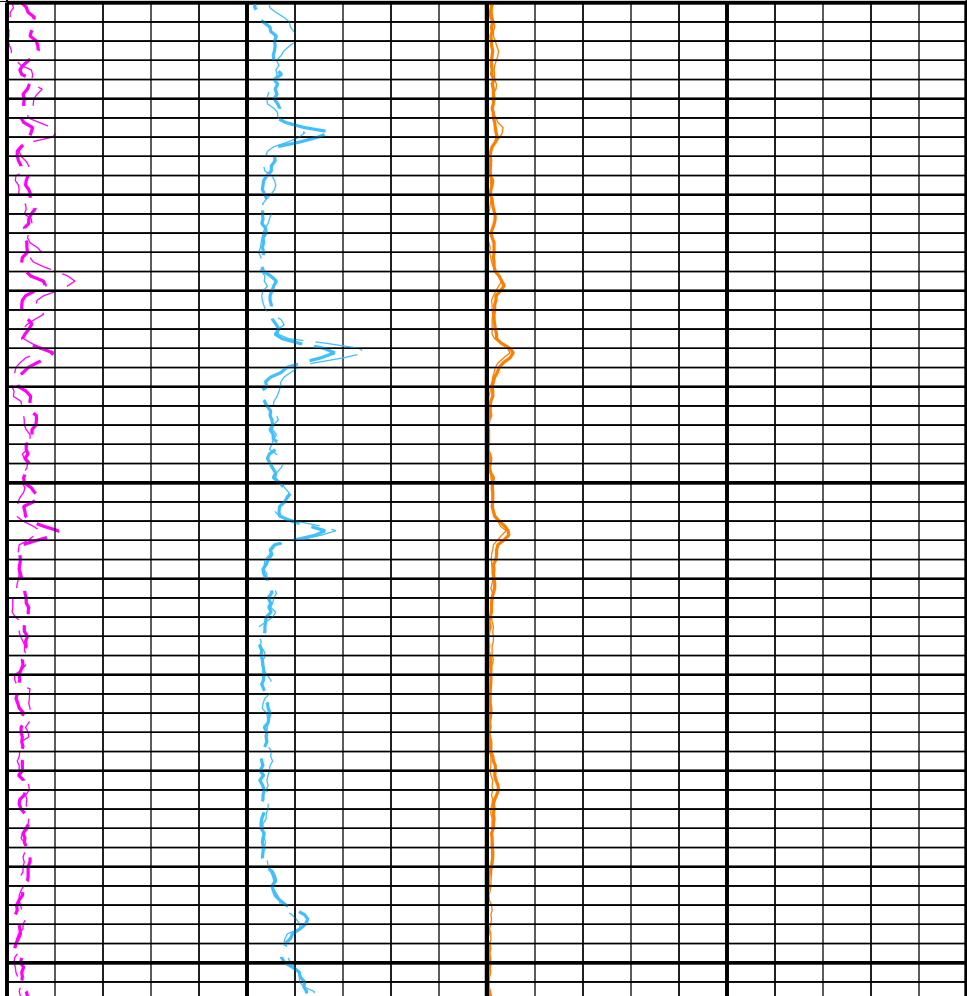
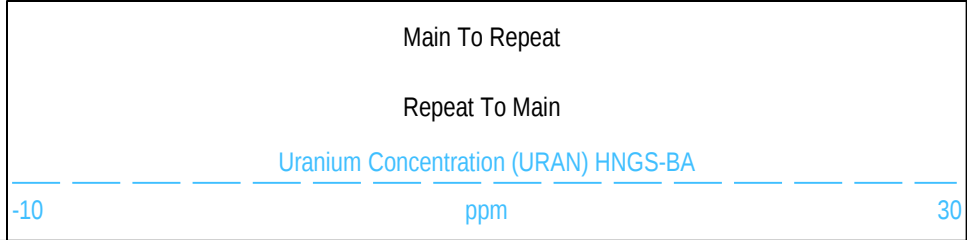
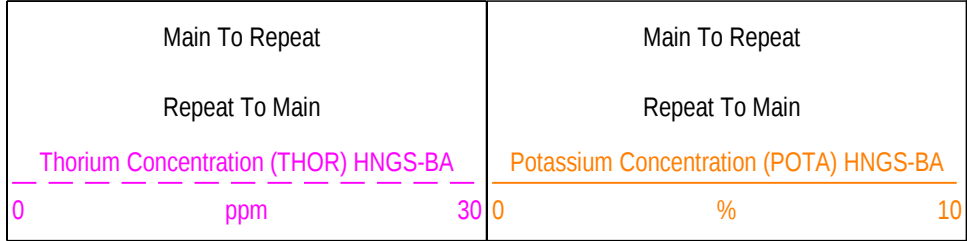
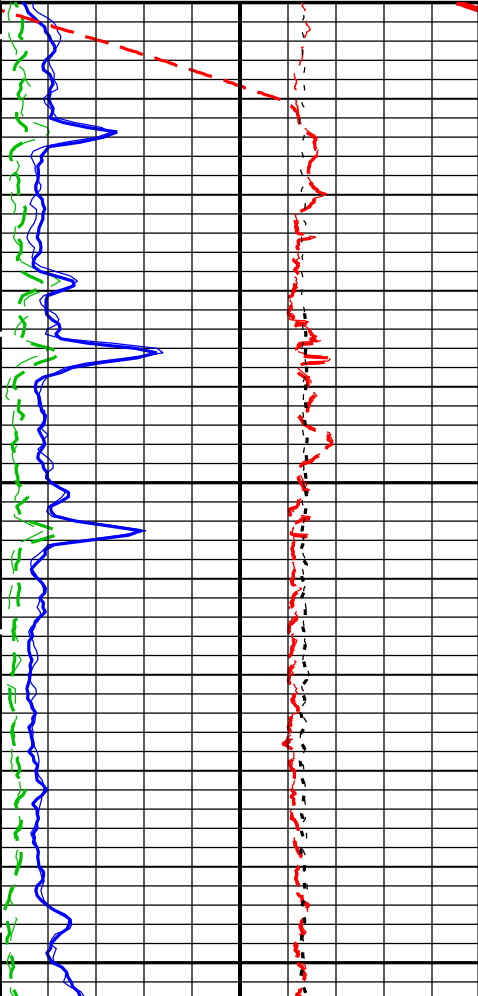
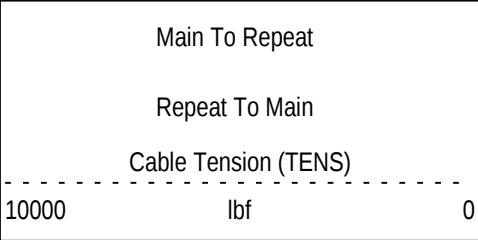
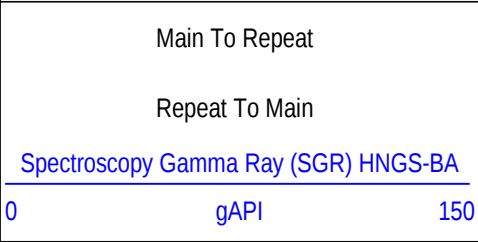
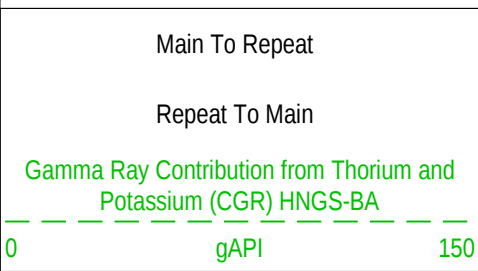


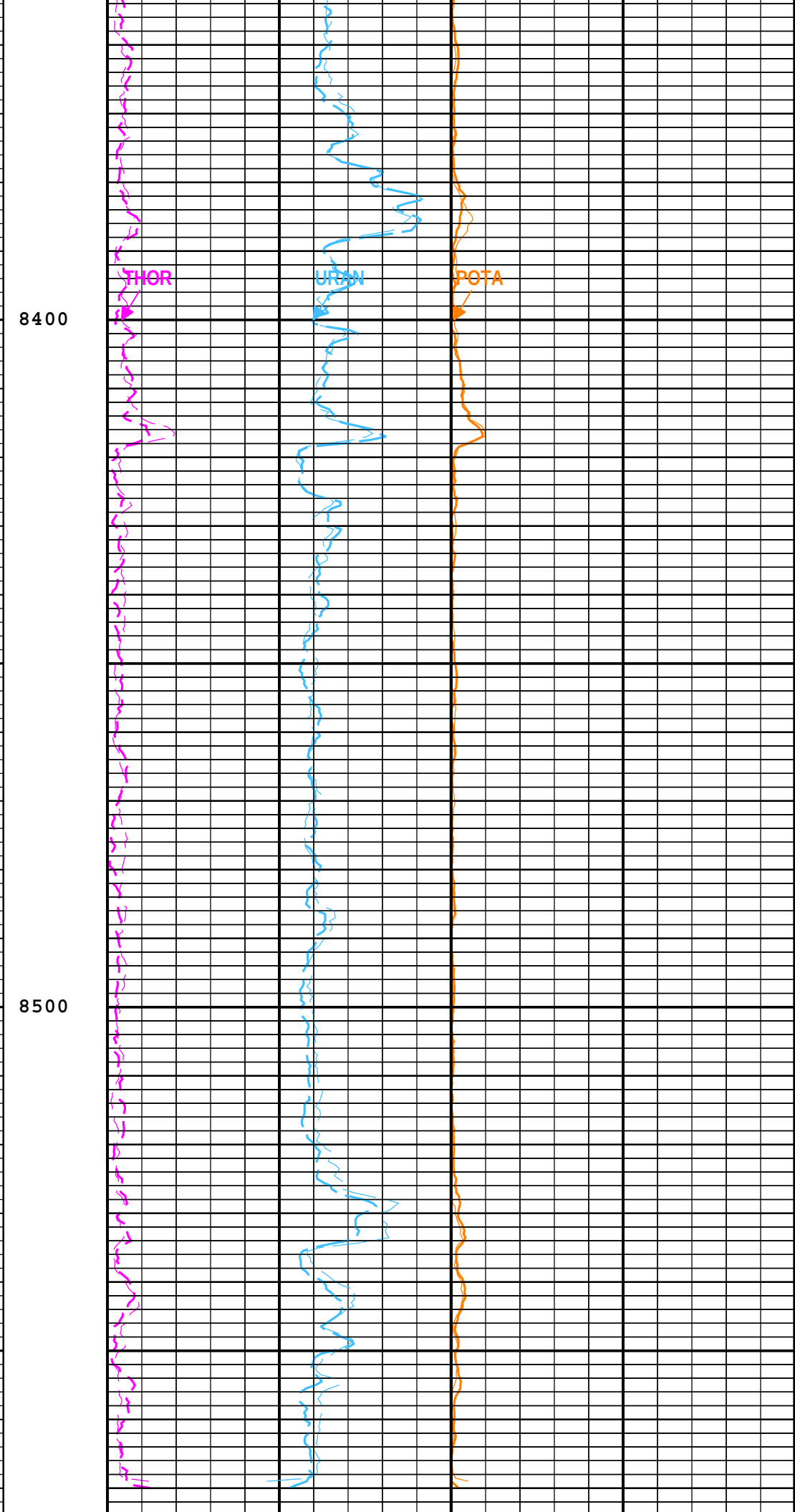
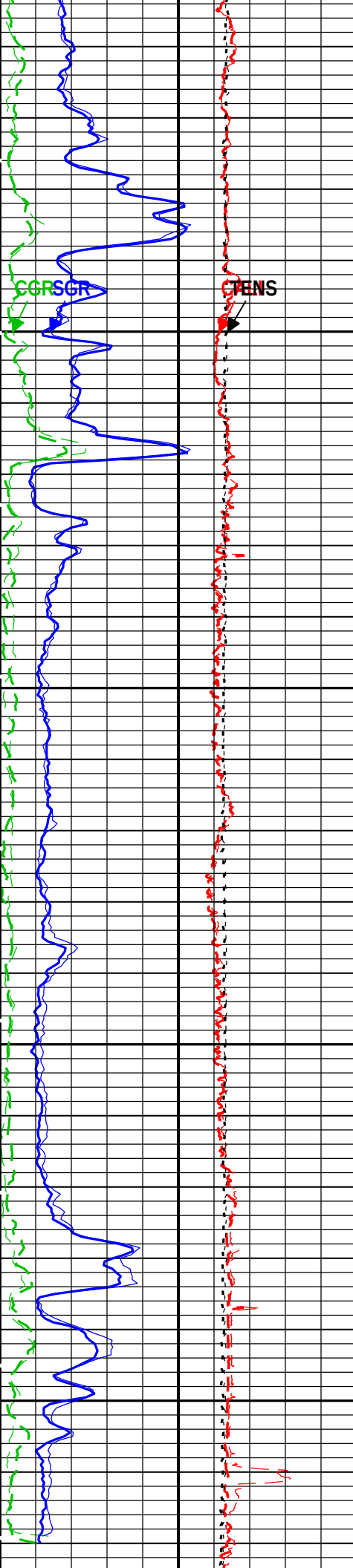


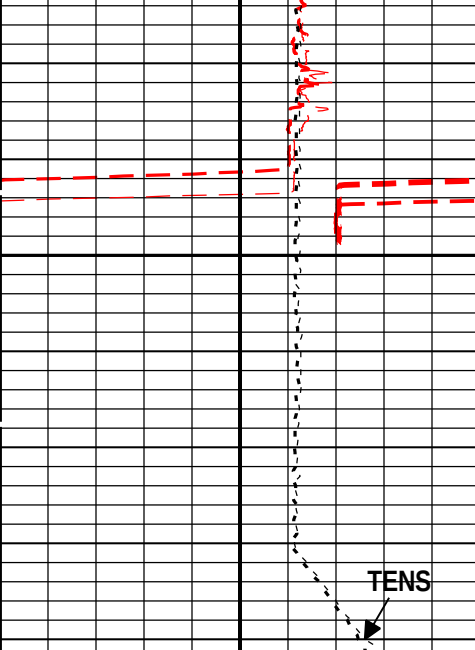


Log	Company:PB ENERGY STORAGE SERVICES, INC	Well:DCP Linam Ranch AGI #2
		Type: Main[2]L In: S021

TIME_1900 - Time Marked every 60.00 (s)







8600

TD

8630.00ft

TENS

Main To Repeat

Repeat To Main

Gamma Ray Contribution from Thorium and Potassium (CGR) HNGS-BA

0 gAPI 150

Main To Repeat

Repeat To Main

Spectroscopy Gamma Ray (SGR) HNGS-BA

0 gAPI 150

Main To Repeat

Repeat To Main

Caliper (CALI) HDRS-B

6 in 16

Main To Repeat

Repeat To Main

Cable Tension (TENS)

10000 lbf 0

TIME_1900 - Time Marked every 60.00 (s)

Description: Format: Log (Spectral 5 inch RA) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 30-Nov-2014 17:24:46

Calibration Report

HNGS-BA (Hostile-environment Natural Gamma-ray Sonde) Calibration - Run Two

Primary Equipment :

HNGS Sonde Element

HNGS-BA

84

Auxiliary Equipment :

Hostile Natural Gamma Ray Cartridge

HNGC-B

610

HNGS Housing Element

HEH-K

1035

0

HNGS Background and Na22 Set Point Determination - Detector 1 Check

Master (EEPROM):		08:19:35 16-Oct-2014		Before (Measured):		10:25:53 26-Nov-2014	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Na 511 Peak Location		Master	40.000	37.500	40.630	42.500	
		Before	40.000	37.500	40.756	42.500	
		Before-Master	-----	-----	0.126	-----	
Na 511 Peak Resolution	%	Master	15.500	12.000	16.191	19.000	
		Before	15.500	12.000	15.163	19.000	
		Before-Master	-----	-----	-1.028	-----	
High Voltage DAC Value	V	Master			1177.372		
		Before	1150.000	850.000	1156.771	1600.000	
		Before-Master	-----	-----	-20.601	-----	
Na 1785 Peak Location		Master	142.650	135.000	144.204	150.300	
		Before	142.650	135.000	144.844	150.300	
		Before-Master	-----	-----	0.640	-----	
Na 1785 Peak Resolution	%	Master	8.500	7.000	10.443	11.000	
		Before	8.500	7.000	9.146	11.000	
		Before-Master	-----	-----	-1.297	-----	
Temperature - 0	degF	Master	-----	-----	-----	-----	
		Before	59.900	-20.002	59.654	140.000	
		Before-Master	-----	-----	-----	-----	
Na Count Rate	CPS	Master	45.000	10.000	39.856	100.000	
		Before	45.000	10.000	40.517	100.000	
		Before-Master	-----	-----	0.661	-----	

HNGS Background and Na22 Set Point Determination - Detector 2 Check

Master (EEPROM):		08:19:35 16-Oct-2014		Before (Measured):		10:25:53 26-Nov-2014	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Na 511 Peak Location		Master	40.000	37.500	40.601	42.500	
		Before	40.000	37.500	40.570	42.500	
		Before-Master	-----	-----	-0.031	-----	
Na 511 Peak Resolution	%	Master	15.500	12.000	14.250	19.000	
		Before	15.500	12.000	14.448	19.000	
		Before-Master	-----	-----	0.198	-----	
High Voltage DAC Value	V	Master			1112.869		
		Before	1150.000	850.000	1090.086	1600.000	
		Before-Master	-----	-----	-22.783	-----	
Na 1785 Peak Location		Master	142.650	135.000	144.597	150.300	
		Before	142.650	135.000	144.621	150.300	
		Before-Master	-----	-----	0.024	-----	
Na 1785 Peak Resolution	%	Master	8.500	7.000	8.462	11.000	
		Before	8.500	7.000	8.094	11.000	
		Before-Master	-----	-----	-0.368	-----	
Temperature - 0	degF	Master	-----	-----	-----	-----	
		Before	59.900	-20.002	57.493	140.000	
		Before-Master	-----	-----	-----	-----	
Na Count Rate	CPS	Master	45.000	10.000	40.262	100.000	
		Before	45.000	10.000	40.542	100.000	
		Before-Master	-----	-----	0.280	-----	

HNGS Background and Na22 Set Point Determination - Ratio of Detector 1 to Detector 2

Master (EEPROM):		08:19:35 16-Oct-2014		Before (Measured):		10:25:53 26-Nov-2014	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Coincidence Count Rate Ratio		Master			0.987		
		Before	1.000	0.950	0.994	1.050	
		Before-Master	-----	-----	0.007	-----	

HNGS Background and Na22 Set Point Determination - Detector 1 Calibration

Master (EEPROM):		08:19:35 16-Oct-2014		Before (Measured):		10:25:53 26-Nov-2014	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Th Peak Location		Master	209.630	201.000	208.805	218.250	
		Before	-----	-----	-----	-----	
		Before-Master	-----	-----	-----	-----	
Th Peak Resolution	%	Master	7.000	5.000	7.753	9.000	
		Before	-----	-----	-----	-----	
		Before-Master	-----	-----	-----	-----	

Background Count Rate	CPS	Master Before Before-Master	142.500 ----- -----	10.000 ----- -----	109.633 190.061 80.428	265.000 ----- -----	
Gain Ratio		Master Before Before-Master	1.000 ----- -----	0.940 ----- -----	0.978 ----- -----	1.060 ----- -----	

HNGS Background and Na22 Set Point Determination - Detector 2 Calibration

Master (EEPROM): 08:19:35 16-Oct-2014		Before (Measured):		10:25:53 26-Nov-2014			
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Th Peak Location		Master Before Before-Master	209.630 ----- -----	201.000 ----- -----	210.075 ----- -----	218.250 ----- -----	
Th Peak Resolution	%	Master Before Before-Master	7.000 ----- -----	5.000 ----- -----	7.198 ----- -----	9.000 ----- -----	
Background Count Rate	CPS	Master Before Before-Master	142.500 ----- -----	10.000 ----- -----	106.568 171.011 64.443	265.000 ----- -----	
Gain Ratio		Master Before Before-Master	1.000 ----- -----	0.940 ----- -----	0.985 ----- -----	1.060 ----- -----	

HNGS Background and Na22 Set Point Determination - Detector 1 Calibration

Master (EEPROM): 08:19:35 16-Oct-2014		Before (Measured):		10:25:53 26-Nov-2014			
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Na 511 Peak Set Point		Master Before Before-Master	40.000 ----- -----	38.000 ----- -----	42.000 ----- -----	43.500 ----- -----	

HNGS Background and Na22 Set Point Determination - Detector 2 Calibration

Master (EEPROM): 08:19:35 16-Oct-2014		Before (Measured):		10:25:53 26-Nov-2014			
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Na 511 Peak Set Point		Master Before Before-Master	40.000 ----- -----	38.000 ----- -----	42.000 ----- -----	43.500 ----- -----	

Field: AGI; Bone Spring-Wolfcamp

County: Lea

State: New Mexico

Spectral Gamma Ray

Composite Casing Logs

- **Borehole Compensated Sonic / Spectral Gamma Ray—
Final Composite 1” & 2”**
- **Borehole Compensated Sonic / Spectral Gamma Ray—
Final Composite 5”**
- **Resistivity / Array Induction Tool—Final Composite
1”& 2”**
- **Resistivity / Array Induction Tool—Final Composite 5”**
- **Three Detector Litho-Density / Compensated Neutron
Log—Final Composite 1” & 2”**
- **Three Detector Litho-Density Log/ Compensated
Neutron Log—Final Composite 5”**
- **Spectral Gamma Ray—Final Composite 5”**

**Borehole Compensated Sonic /
Spectral Gamma Ray
Final Composite 1" & 2"**

Company: PB ENERGY STORAGE SERVICES, INC

Well: DCP Linam Ranch AGI #2

Field: AGI; Bone Spring-Wolfcamp

County: Lea Country: USA

Borehole Compensated Sonic

Spectral Gamma Ray

Final Composite 1" & 2"

County:	Lea
Field:	AGI; Bone Spring-Wolfcamp
Location:	1600' FSL & 1750' FWL
Well:	DCP Linam Ranch AGI #2
Company:	PB ENERGY STORAGE SERVICES, INC
Location:	
1600' FSL & 1750' FWL	Elev.: K.B. 3763.00 ft G.L. 3738.00 ft D.F. 3762.00 ft
Permanent Datum:	Ground Level
Log Measured From:	Kelly Bushing
Drilling Measured From:	Kelly Bushing
API Serial No. 30-025-42139	Section: 30
	Township: 18S
	Range: 37E
Logging Date	30-Nov-2014
Run Number	Two
Run 3c	
Depth Driller	8630.00 ft
Schlumberger Depth	8630.00 ft
Bottom Log Interval	8608.00 ft
Top Log Interval	3219.50 ft
Casing Driller Size @ Depth	13.375 in @ 3220.00 ft
Casing Schlumberger	3219.5 ft
Bit Size	12.25 in
8.5 in	
Type Fluid In Hole	Salt Brine
Density	8.8 lbm/gal
Viscosity	33 s
Fluid Loss	0 cm3
PH	10
Source of Sample	Active Tank
RM @ Meas Temp	9 ohm.m @ 80 degF
RMF @ Meas Temp	7.5 ohm.m @ 80 degF
RMC @ Meas Temp	0.06 ohm.m @ 75 degF
Source RMF	RMC
RMF @ BHT	6.55 @ 107.3
5.71 @ 107.3	
Max Recorded Temperatures	125 degF
Circulation Stopped	30-Nov-2014
Time	02:00:00
Logger on Bottom	30-Nov-2014
Time	13:10:30
Unit Number	2133
Location:	Roswell
Recorded By	Tyler Bolton
Witnessed By	Russell Bentley

Disclaimer

RUN 2

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

Contents

- Header
- Disclaimer
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- Remarks and Equipment Summary
- Depth Summary
- Two Main Pass 2" = 100'
 - Integration Summary
 - Software Version
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 - Integration Summary
 - Composite Summary
 - Log (BHC 5 inch General)
 - Parameter Listing
- Two Repeat Analysis 5" = 100'
 - Composite Summary

- Two Main Pass 1" = 100'
 - Integration Summary
 - Composite Summary
 - Log (BHC 1 inch General)

8.2 Log (BHC 5 inch General RA)

9. Two Repeat Pass 5" = 100'

9.1 Integration Summary

9.2 Composite Summary

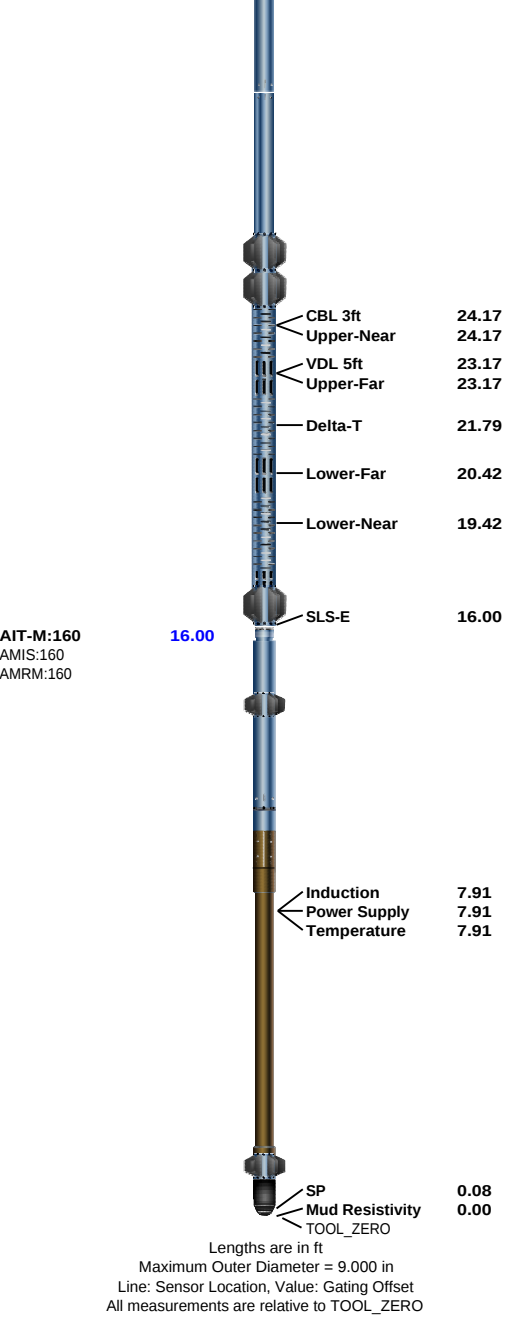
9.3 Log (BHC 5 inch General)

10. Calibration Report

11. Tail

Remarks and Equipment Summary

Two: Toolstring				Two: Remarks
Equip name LEH-QC:1317	Length 82.94	MP name	Offset	Toolstring run as per toolsketch.
				Bowspring used to eccentralize HGNS.
				0.125" standoff created by wear-ring on HGNS.
				1.5" standoffs used on AIT, and DSLT.
EDTC-B:9071 EDTH-B:8196 EDTG-A:79243 EDTC-B:9071	80.48	CTEM ACCZ HV	76.98 0.00 0.00	Porosity computed on a Limestone scale with density of 2.71 g/cc and slowness of 47.6 us/ft.
		Gamma Ray TelStatus	75.11 73.98	Rig: Precision 107
HNGS-BA:84 HEH-K:1035 HNGS-BA:84	73.98			Your Schlumberger Crew: Tyler Bolton, Adam Jaramillo, Jose Gomez.
		GR	70.99	
HNGC-B:610 HNGH-A:4094 HNGC-B:610	65.79	Tel Status	64.04	
HGNS-B:951 HGNH:3894 NPV-N NSR-F:2683 HACCZ-B:448 HMCA-B HGNS-B:951	62.29	Temperature GR	62.26 61.55	
		CNL Porosity	55.21	
		HMCA HGNS Accelerometer	52.88 52.88 0.00	
HDRS-B:1829 ECH-MEB:952 HRCC-B:839 HRMS-B:1829 Short Spacing:27483 Backscatter Long Spacing:28774 GSR-J:5339 HRGD-B:3968 GPV-Q	52.88	HRCC	48.88	
		MCFL Caliper TLD Density	43.45 42.96 42.57	
AH-184:4882	40.64			
AH-107	38.64			
DSLT-H:8091 ECH-KH:8585 DSL-C-H:8091 SLS-E:1561	36.64			



Depth Summary

	Two		
--	-----	--	--

Depth Measuring Device

Type	IDW-JA		
Serial Number	5910		
Calibration Date	02-Jun-2014		
Calibrator Serial Number			
Calibration Cable Type	7-46P XS		
Wheel Correction 1	-2		
Wheel Correction 2	-1		

Tension Device

Type	CMTD-B/A		
Serial Number	5044		
Calibration Date	18-Oct-2014		
Calibrator Serial Number	80725A		
Number of Calibration Points	10		
Calibration Root Mean Square Error	19		
Calibration Peak Error	36		

Logging Cable

Type	7-46P-XS		
------	----------	--	--

Serial Number	U711059		
Length	15500.00 ft		
Conveyance Type	Wireline		
Rig Type	Land		
Two:Depth Control Parameters		Depth Control Remarks	
Log Sequence	Subsequent Trip To the Well	All primary and secondary depth control procedures followed. IDW used as primary depth control device. Z-chart used as secondary depth control device.	
Reference Log Name	Platform Express-CNL		
Reference Log Run Number	One		
Reference Log Date	01-Nov-2014		
Subsequent Trip Down Log Correction	7.29 ft		

Disclaimer

RUN 3

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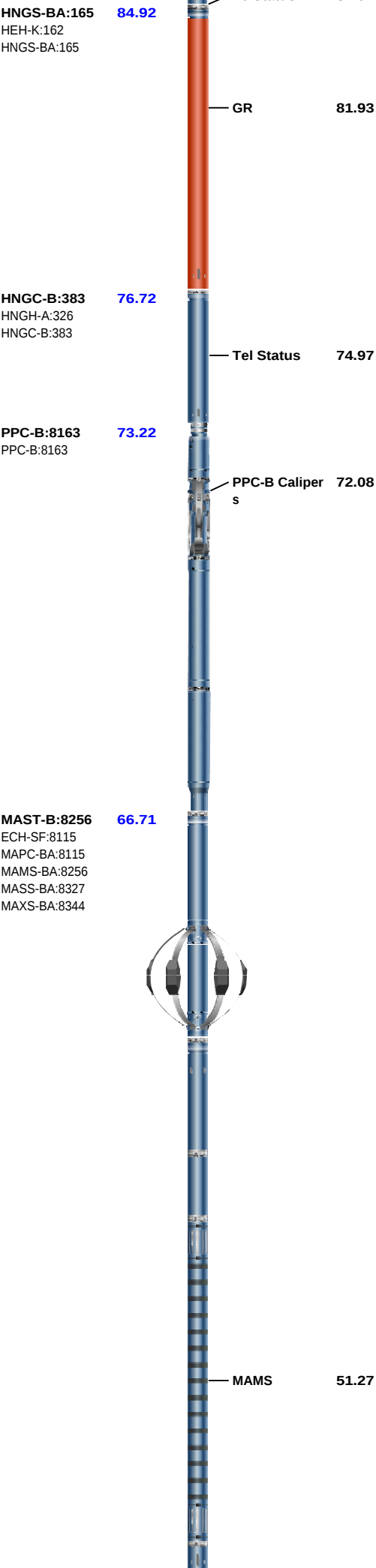
Contents	
1. Header 2. Disclaimer 3. Contents 4. Operational Run Summary 5. Borehole Fluids 6. Remarks and Equipment Summary 7. Depth Summary 8. Run 3c Main Pass 2" = 100' 8.1 Integration Summary 8.2 Software Version 8.3 Composite Summary 8.4 Log (DSI 2 inch General) 9. Run 3c Main Pass 5" = 100' 9.1 Integration Summary 9.2 Composite Summary 9.3 Log (DSI 5 inch General) 9.4 Parameter Listing 10. Calibration Report 11. Tail 12. Run 3c Main Pass 1" = 100' 12.1 Integration Summary 12.2 Composite Summary 12.3 Log (DSI 1 inch General)	

Operational Run Summary						
Parameter (unit)	Run 3c					
Date Log Started	10-Dec-2014					
Time Log Started	10:36:42					
Date Log Finished	10-Dec-2014					
Time Log Finished	12:34:32					
Top Log Interval (ft)	8594.00					
Bottom Log Interval (ft)	9247.00					
Total Depth (ft)	9247.00					

Max Hole Deviation (deg)	0.00					
Azimuth of Max Deviation (deg)	0.00					
Bit Size (in)	8.500					
Logging Unit Number	2381					
Logging Unit Location	Midland, TX					
Recorded By	Matt Clardy/Phil Lacasse					
Witnessed By	Russell Bentley					
Service Order Number	D0M2-00023					

Borehole Fluids						
Parameter(unit)	Run 3c					
Fluid Type	Water					
Fluid Name	Fresh Water					
Max Recorded Temperatures (degF)	138					
Source of Sample	Active Tank					
Salinity (ppm)	500					
Density (lbm/gal)	10.1					
Funnel Viscosity (s)	42					
Fluid Loss (cm3)	0					
PH	10.5					
Date/Time Circulation Stopped	09-Dec-2014 08:00:00					
Date Logger on Bottom	10-Dec-2014					
Time Logger on Bottom	11:36:00					
Source RMF	Calculated					
RMC	Calculated					
RM @ Meas Temp (ohm.m@degF)	1.09 @ 62.2					
RMF @ Meas Temp (ohm.m@degF)	0.75 @ 75					
RMC @ Meas Temp (ohm.m@degF)	0.89 @ 75					
RM @ BHT (ohm.m@degF)	0.52 @ 138					
RMF @ BHT (ohm.m@degF)	0.42 @ 138					
RMC @ BHT (ohm.m@degF)	0.5 @ 138					
Total Solid (%)	10					
High Gravity Solids (%)						

Remarks and Equipment Summary					
Run 3c: Toolstring				Run 3c: Remarks	
Equip name LEH-QC	Length 93.87	MP name BLUE	Offset	Max recorded temperature from downhole thermometer = 138 degF.	
				Tool String run as per tool sketch (3x 1.5 in Standoffs, Bowspring).	
				Cement volume calculated using 7.0 inch future casing diameter.	
				Hole size and standoff correction applied to neutron porosity.	
EDTC-B:8101 EDTH-B:8101 EDTG-A:77002 EDTC-B:8101	91.42			Logs Run from 9247 ft to Casing as per client request. Repeat performed for 300ft from 9247 ft as per client request.	
		CTEM	87.92		
		ACCZ	0.00		
		HV	0.00		
		Gamma Ray	86.05		
				Thank you for choosing Schlumberger! Schlumberger Wireline - Midland, TX - 432-	



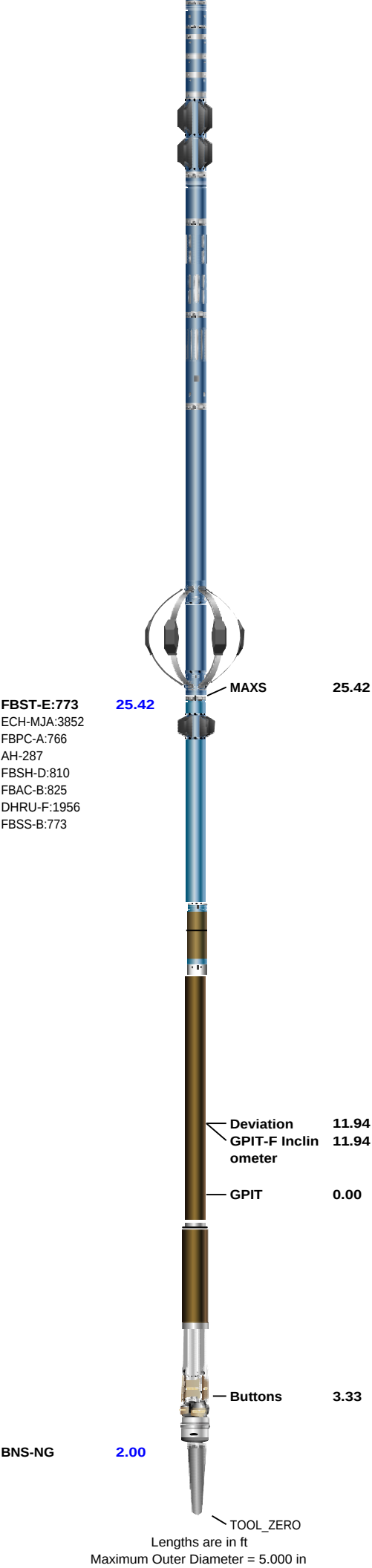
694-0000

Rig: Precision #107. Schlumberger Crew: Mohammed, Ozzy, Matt & Phil.

As per discussion with client, repeat pass skipped due to concerns over reopening calipers.

Logs run from TD to CSG as per client request.

PPC and FMI used for powered centralization, CME-Z's and Standoffs for Passive Centralization.



Line: Sensor Location, Value: Gating Offset All measurements are relative to TOOL_ZERO				
Depth Summary				
	Run 3c			
Depth Measuring Device				
Type	IDW-B			
Serial Number	6568			
Calibration Date	28-Jul-2014			
Calibrator Serial Number				
Calibration Cable Type	7-46P/AXS			
Wheel Correction 1	-4			
Wheel Correction 2	-3			
Tension Device				
Type	CMTD-B/A			
Serial Number	8100			
Calibration Date	18-Nov-2014			
Calibrator Serial Number	U713032			
Number of Calibration Points	10			
Calibration Root Mean Square Error	16			
Calibration Peak Error	20			
Logging Cable				
Type	7-46P-XS			
Serial Number	U713032			
Length	23800.00 ft			
Conveyance Type	Wireline			
Rig Type				
Run 3c:Depth Control Parameters		Depth Control Remarks		
Log Sequence	Subsequent Log In the Well	All Schlumberger depth control procedures to date followed. All passes correlated to Run 1A downlog. CMTD used as primary tension control. Tension head used as secondary tension control. CMTD last calibrated on 11-Nov-2014. IDW used as primary means of depth control. Z-chart used as secondary means of depth control. IDW calibrated on 28-Jul-2014.		
Reference Log Name	SCHLUMBERGER - PLATFORM EXPRESS			
Reference Log Run Number	3A			
Reference Log Date	10-Dec-2014			
Main Pass 2" = 100'				
Integration Summary				
Output Channel(s)	Output Description	Input Parameter	Output Value	Unit
ITT	Integrated Transit Time	ITTS	0.2939	s
Software Version				
Acquisition System			Version	
MaxWell			4.0.9163.3000	
Application Patch			Patch-SP-10767_22480-4.0.9163.3001	
			Patch-NPD_CMRTF_SP3-23787-4.0.9530.3002	
Computation	Description		Version	
Sonic Openhole Ensemble	Sonic Openhole Ensemble		4.0.9469.3000	
Tool Elements	Description	Software Version	Firmware Version	
SLS-E	Sonic Logging Sonde E supports 3'-5'BHC DT and CBL/VDL	4.0.9469.3000	4.0	
HNGS-BA	HNGS Sonde Element	4.0.9469.3000	2.0	
HRCC-B	HILT High-Resolution Control Cartridge, 125 degC	4.0.9486.3000	2.0	
Log	Company:PB ENERGY STORAGE SERVICES, INC		Well:DCP Linam Ranch AGI #2	
			Two: Main[3]:Up:S021	
Description: HRLT BASIC LOG Format: Log (BHC 2 inch General) Index Scale: 2 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 30-Nov-2014 17:16:54				

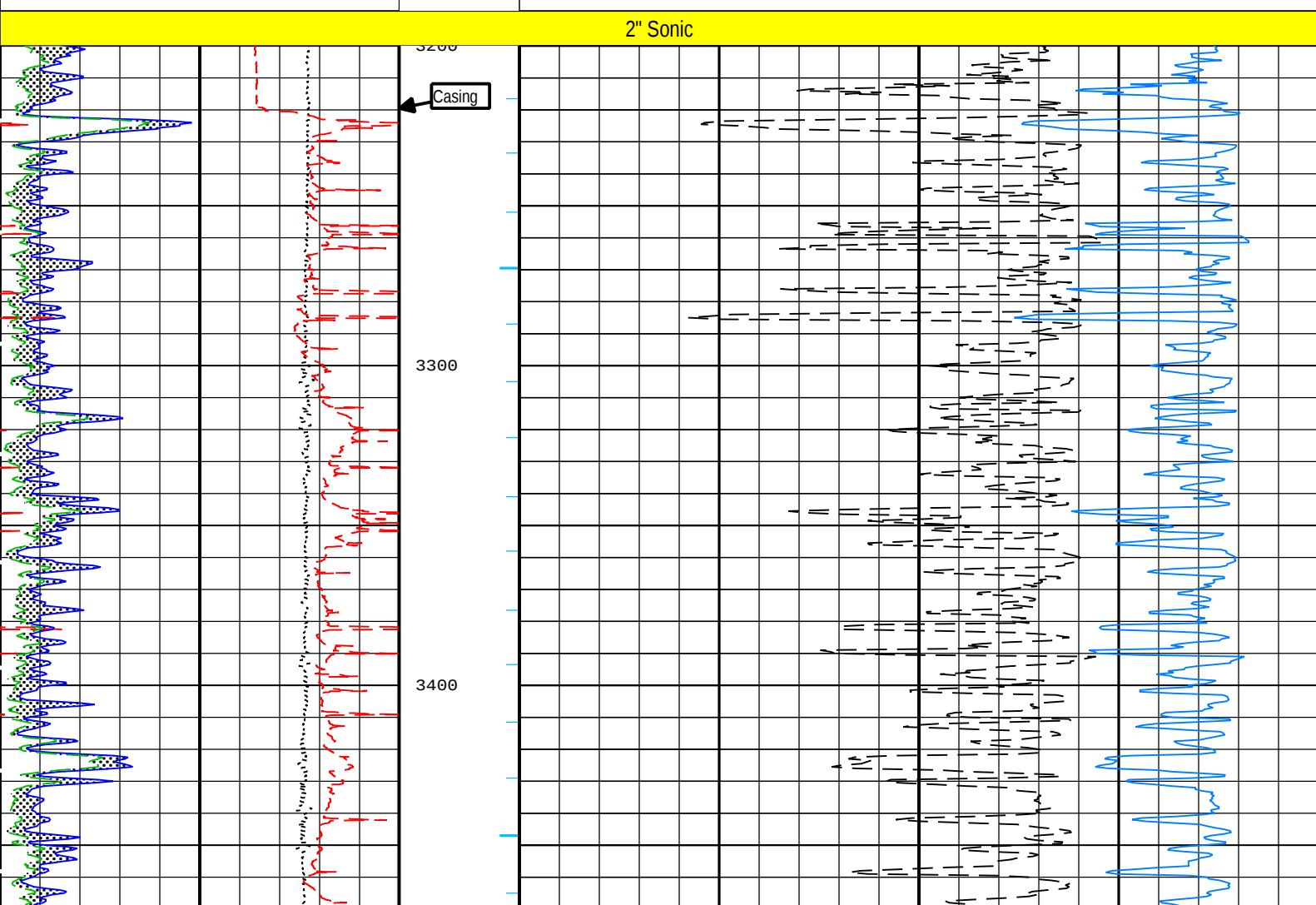
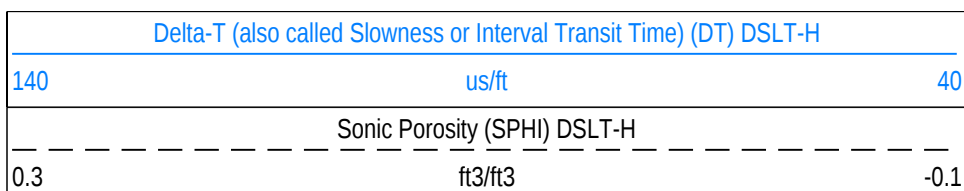
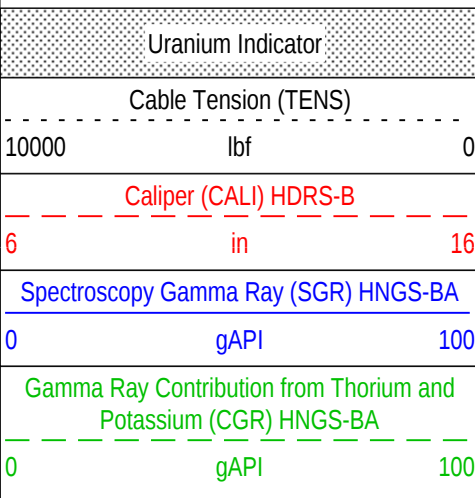
Channel	Source	Sampling
CALI	HDRS-B:HRCC-B:HRCC-B	1in
CGR	HNGS-BA:HNGS-BA:HNGS-BA	6in
DT	DSLT-H:SLS-E:SLS-E	6in
ITT	DSLT-H:SLS-E:SLS-E	6in
SGR	HNGS-BA:HNGS-BA:HNGS-BA	6in
SPHI	DSLT-H:SLS-E:SLS-E	6in
TENS	WLWorkflow	1in
TIME_1900	WLWorkflow	0.1in

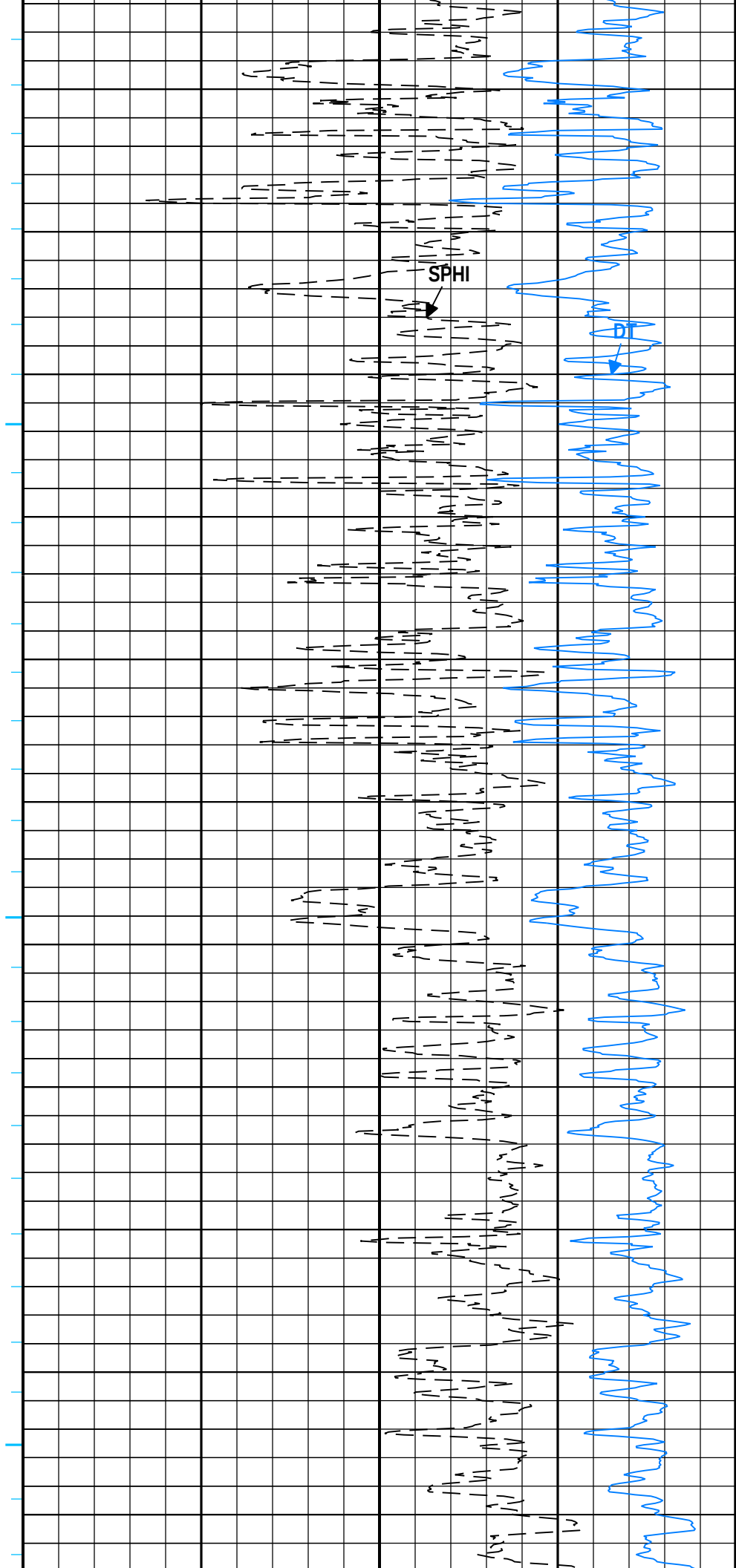
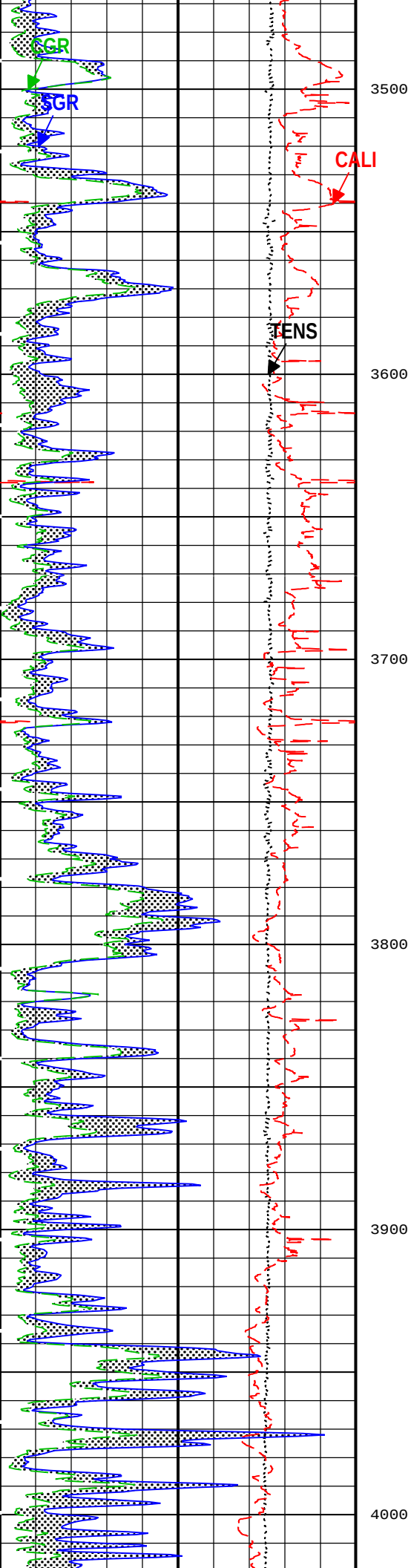
ITT - Integrated Transit Time every 10.00 (ms)

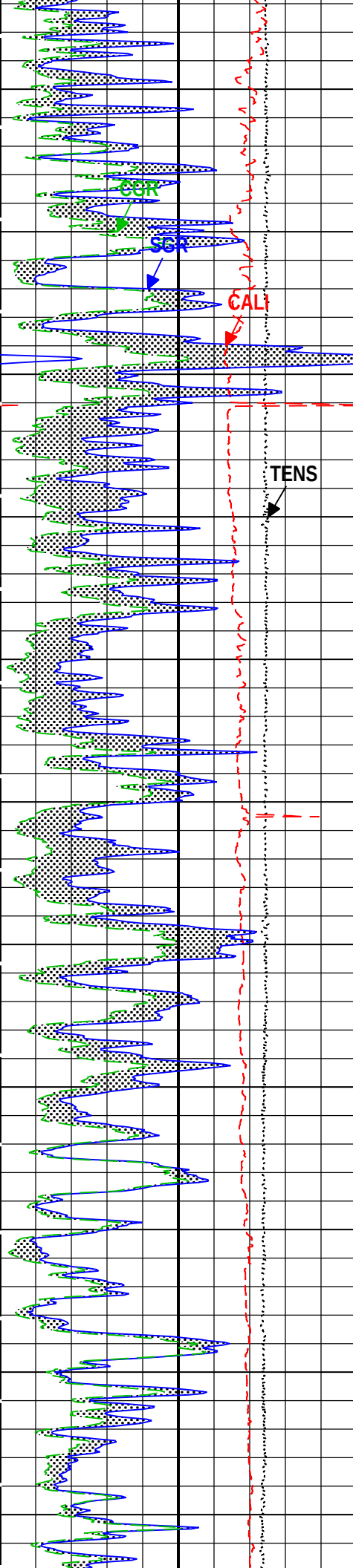
RUN 2

TIME_1900 - Time Marked every 60.00 (s)

ITT - Integrated Transit Time every 1.00 (ms)







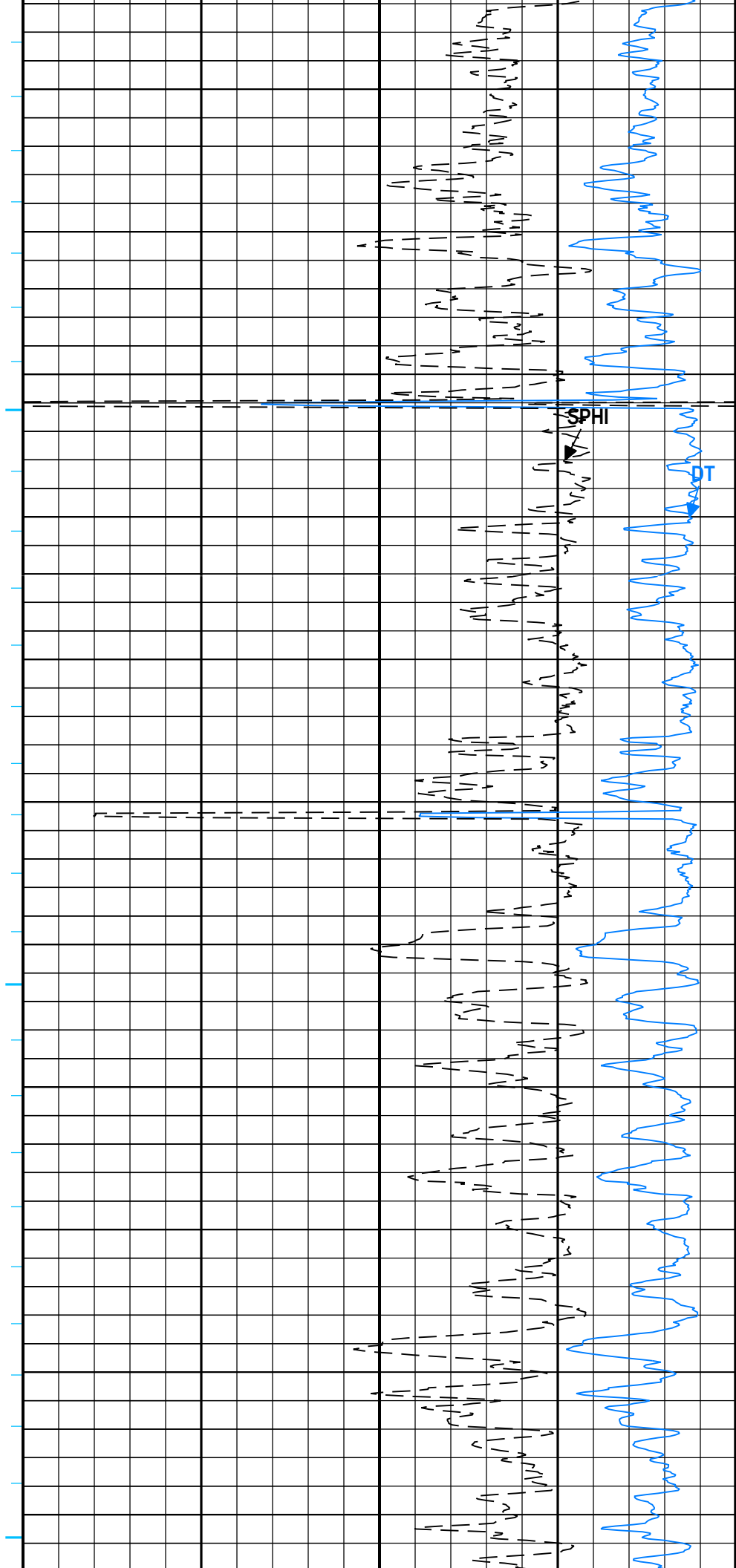
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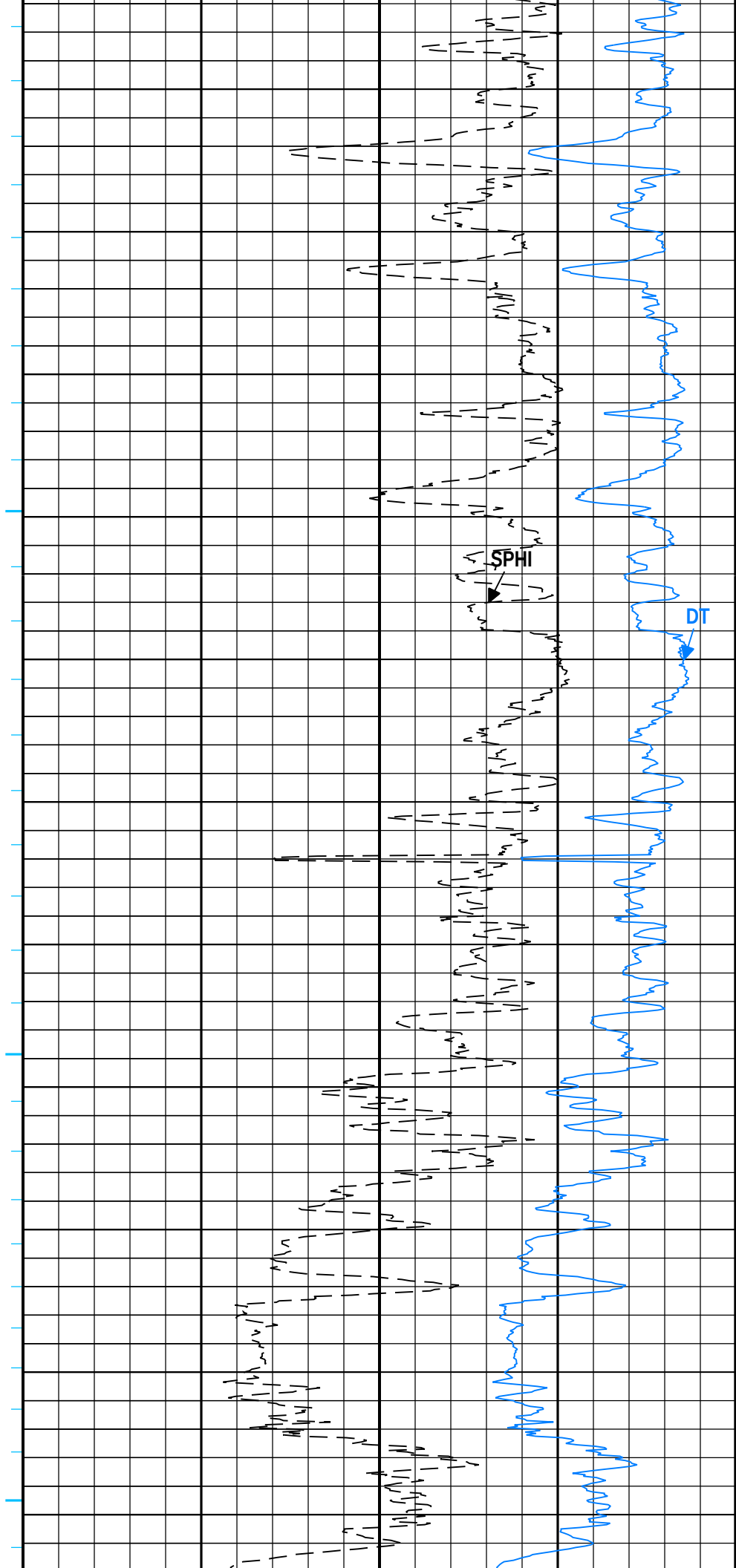
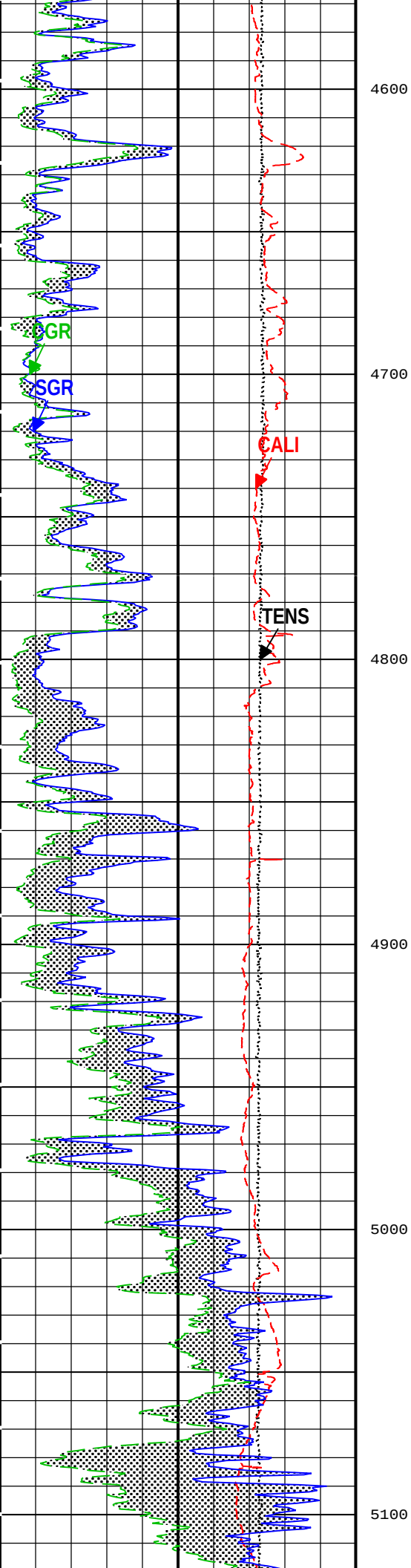
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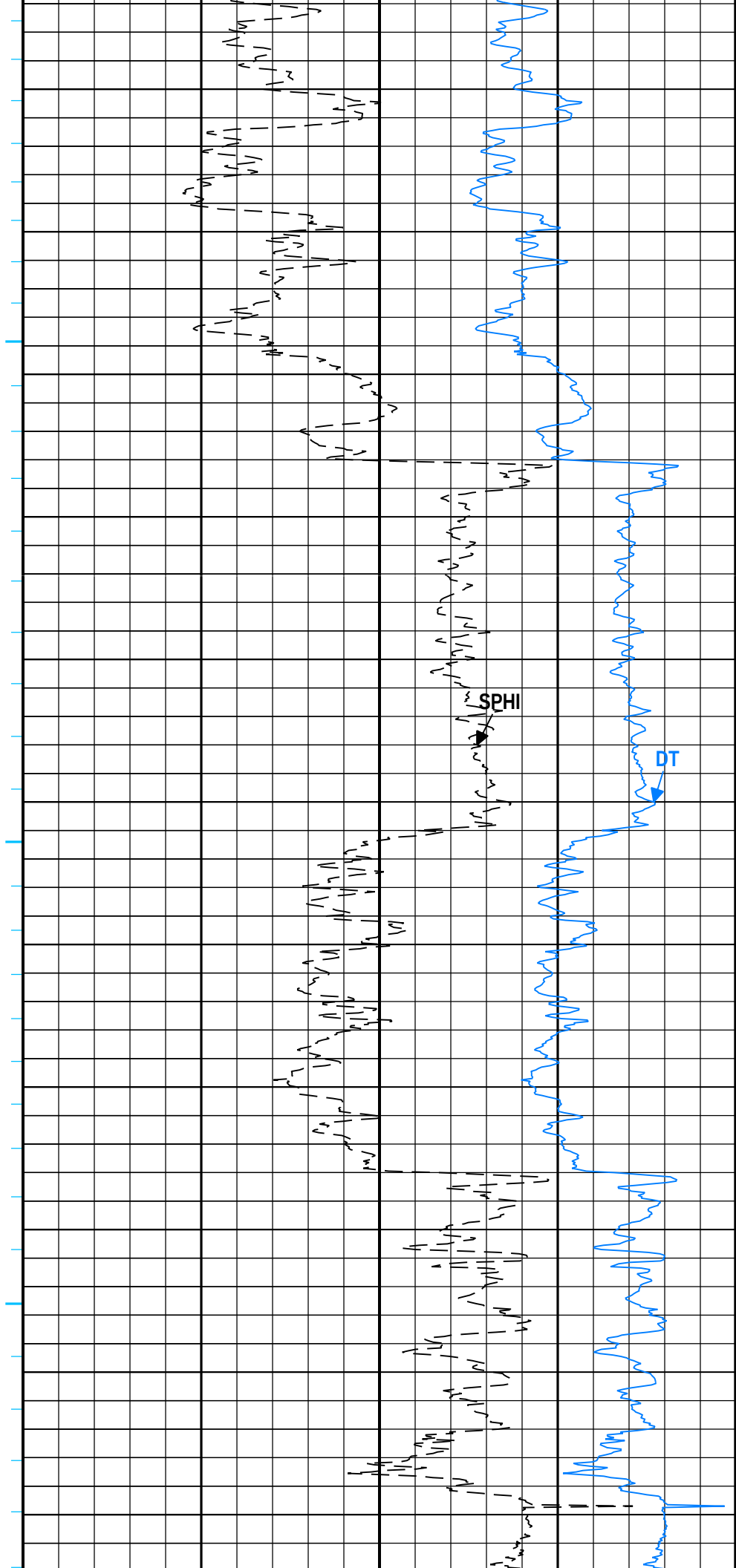
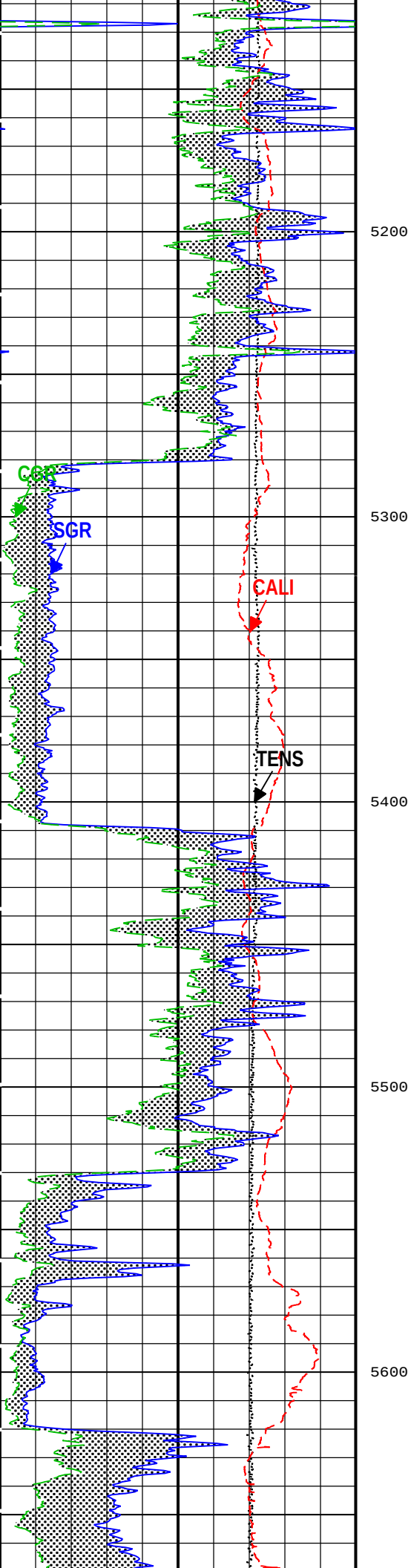
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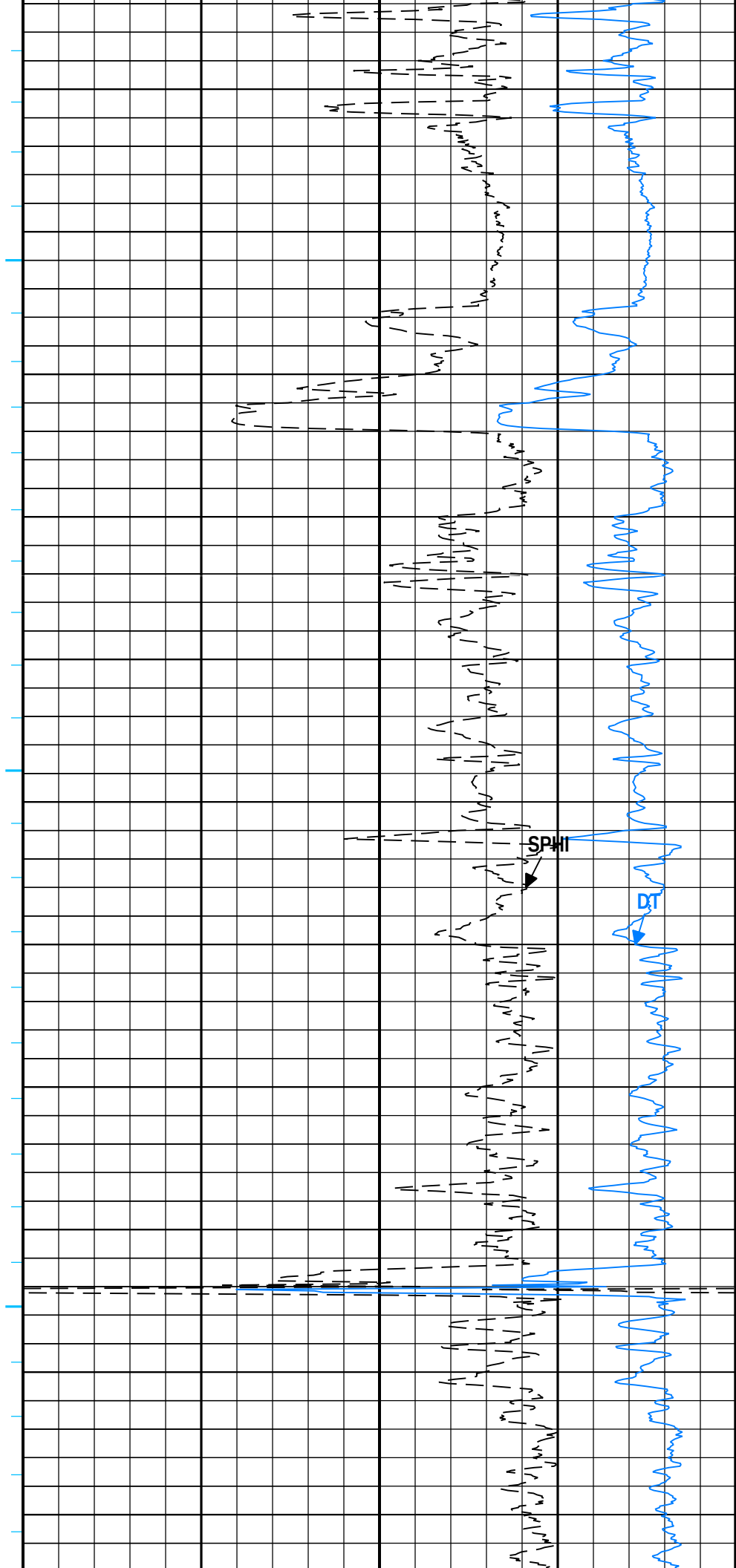
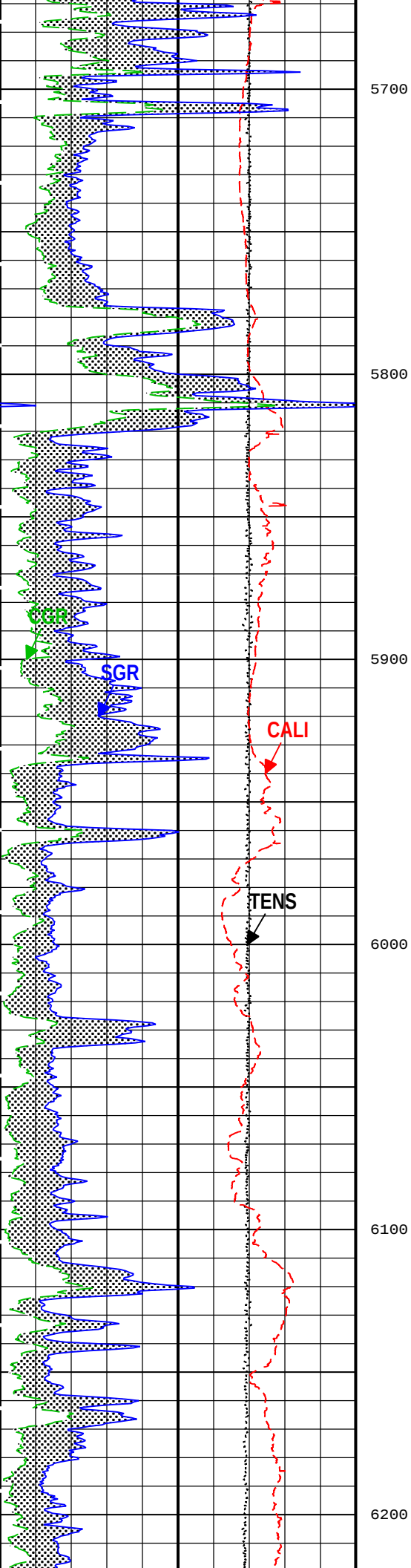
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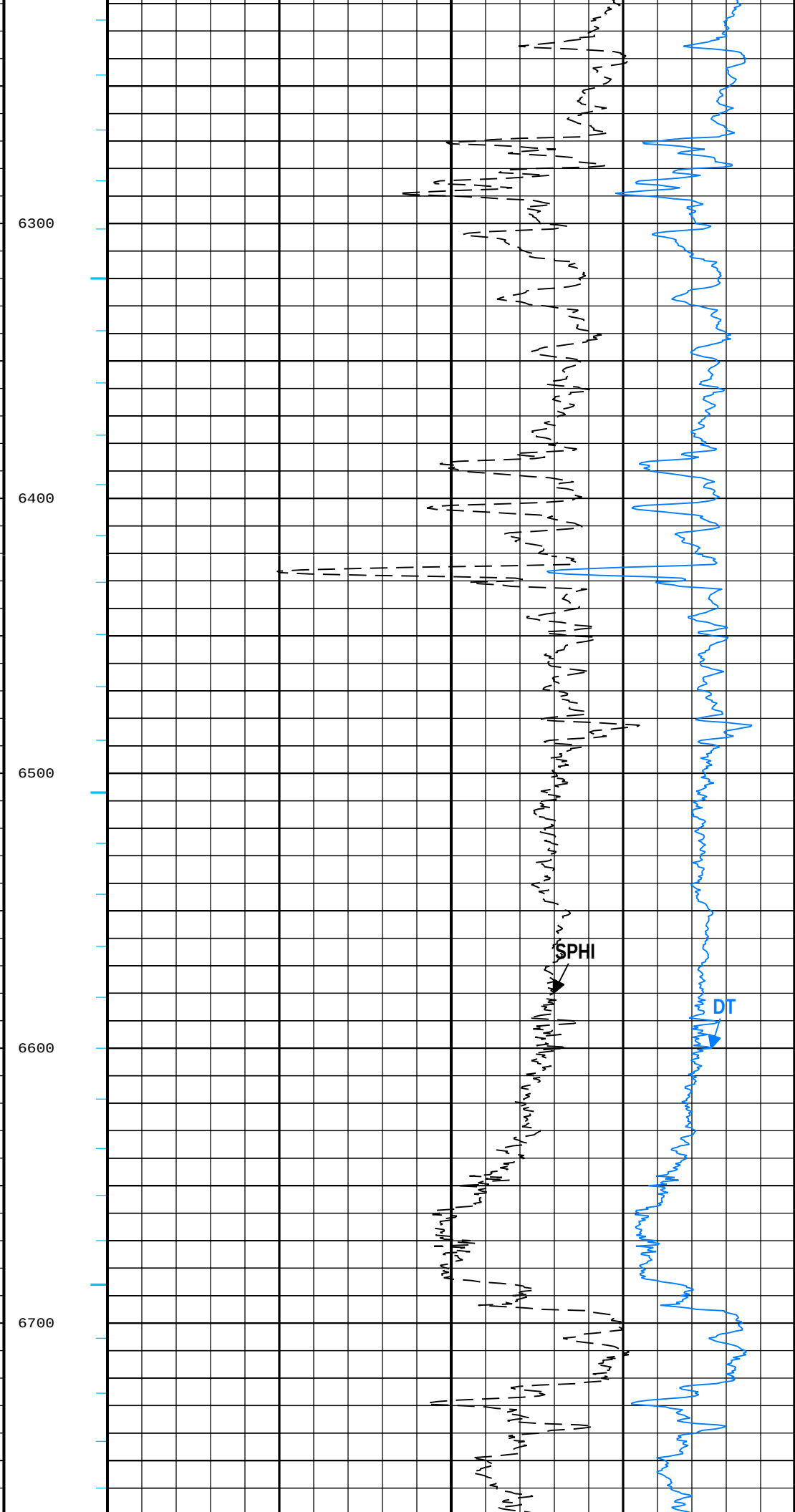
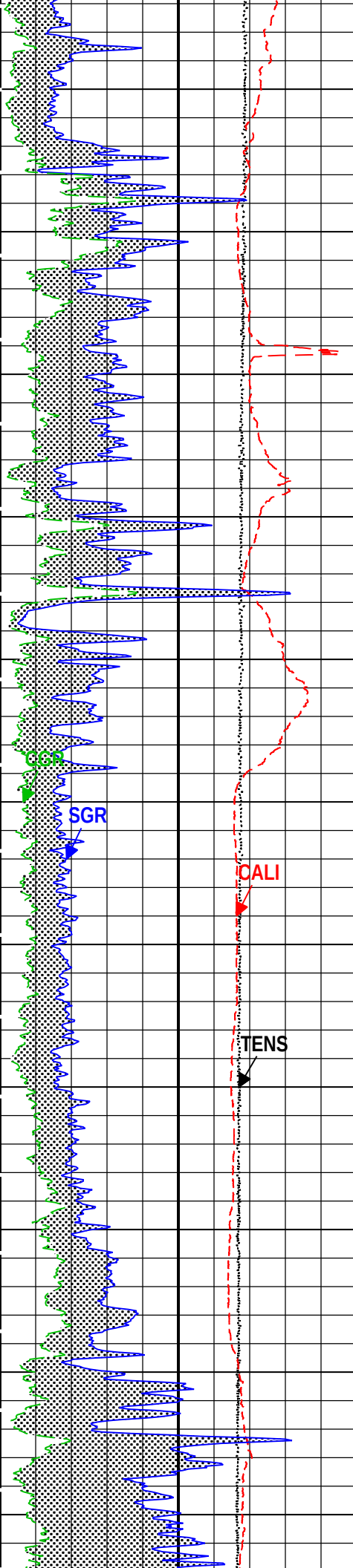
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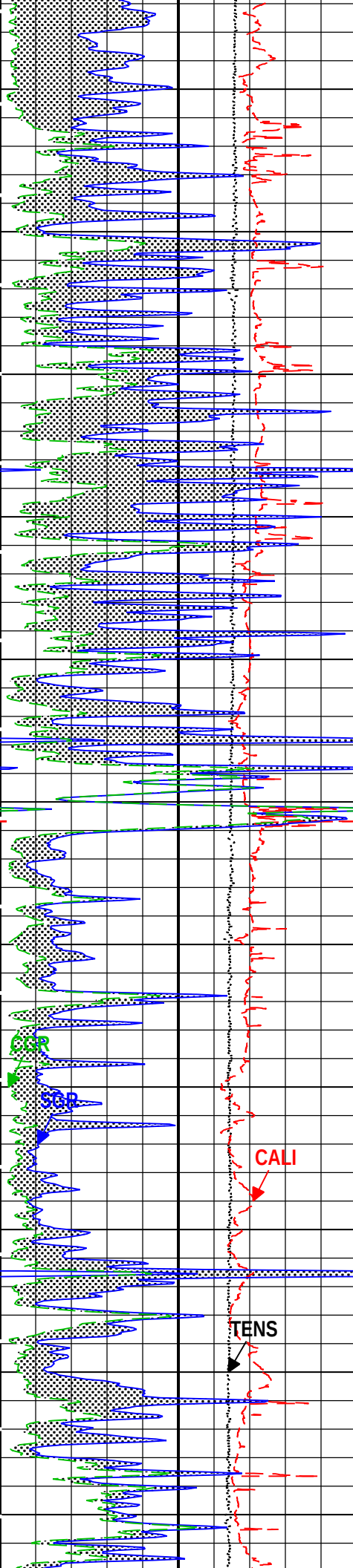












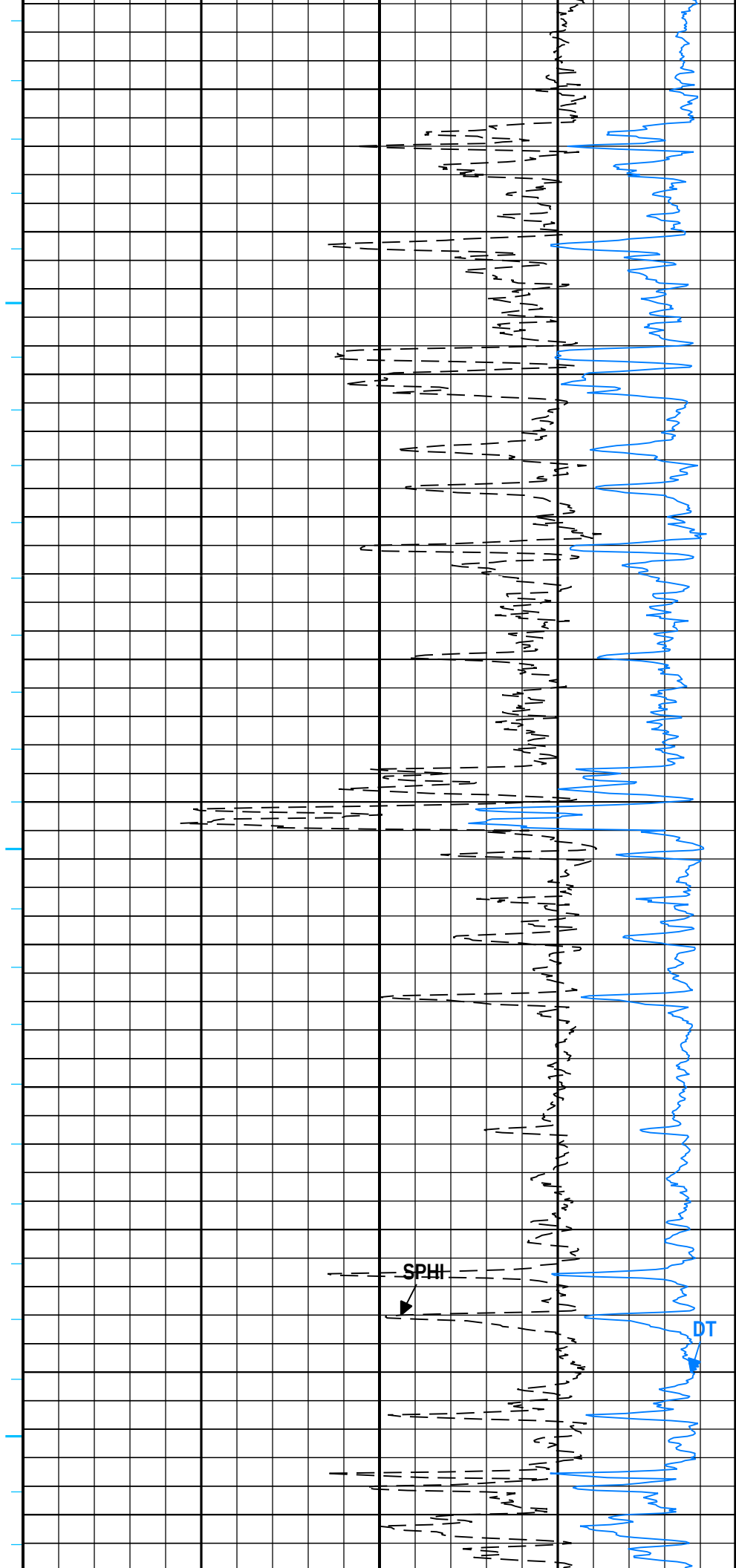
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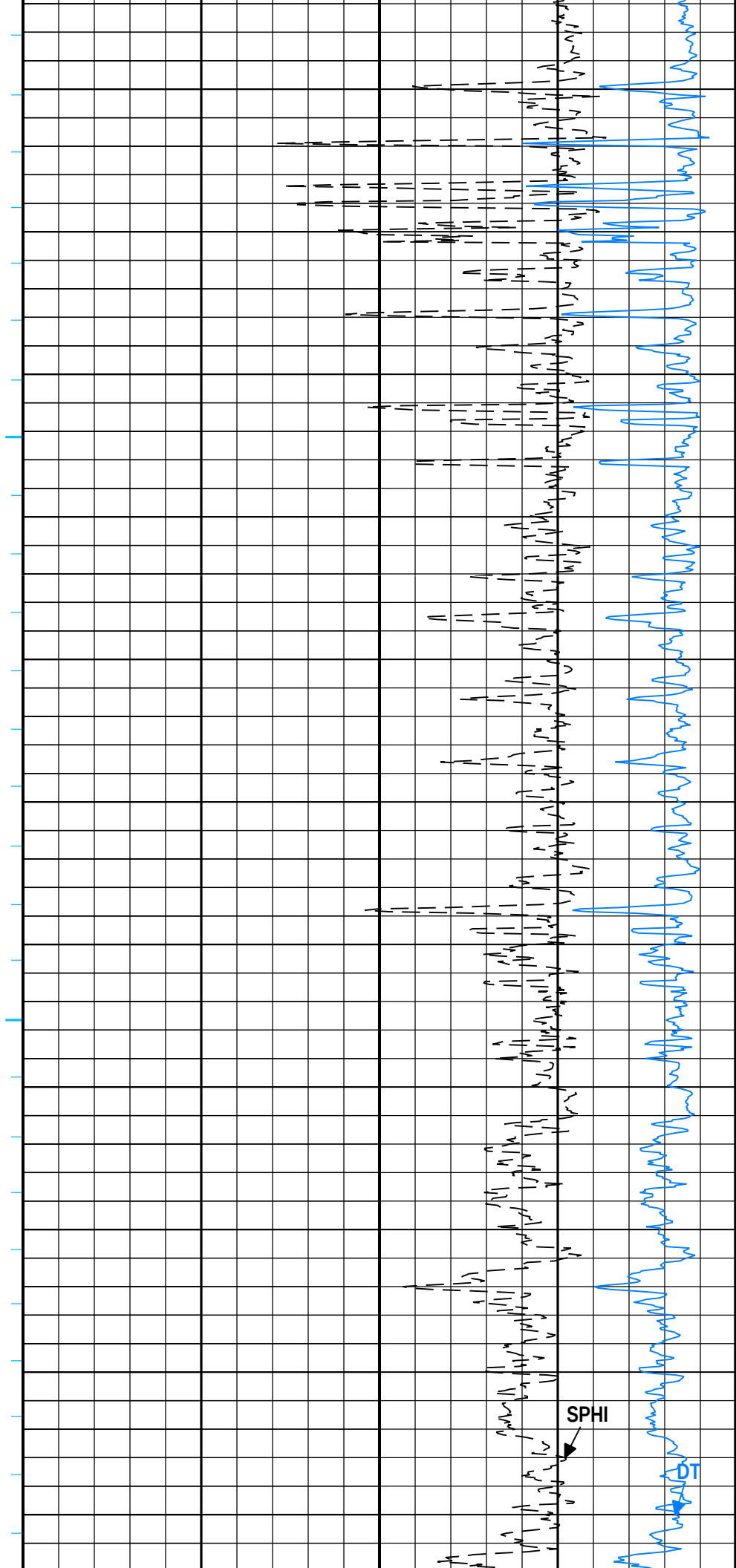
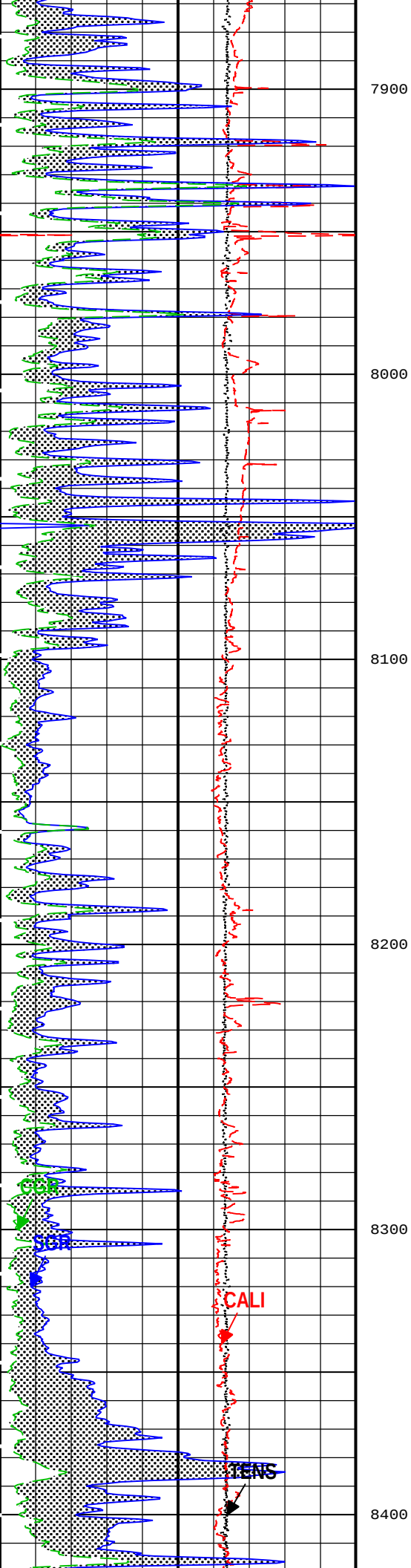
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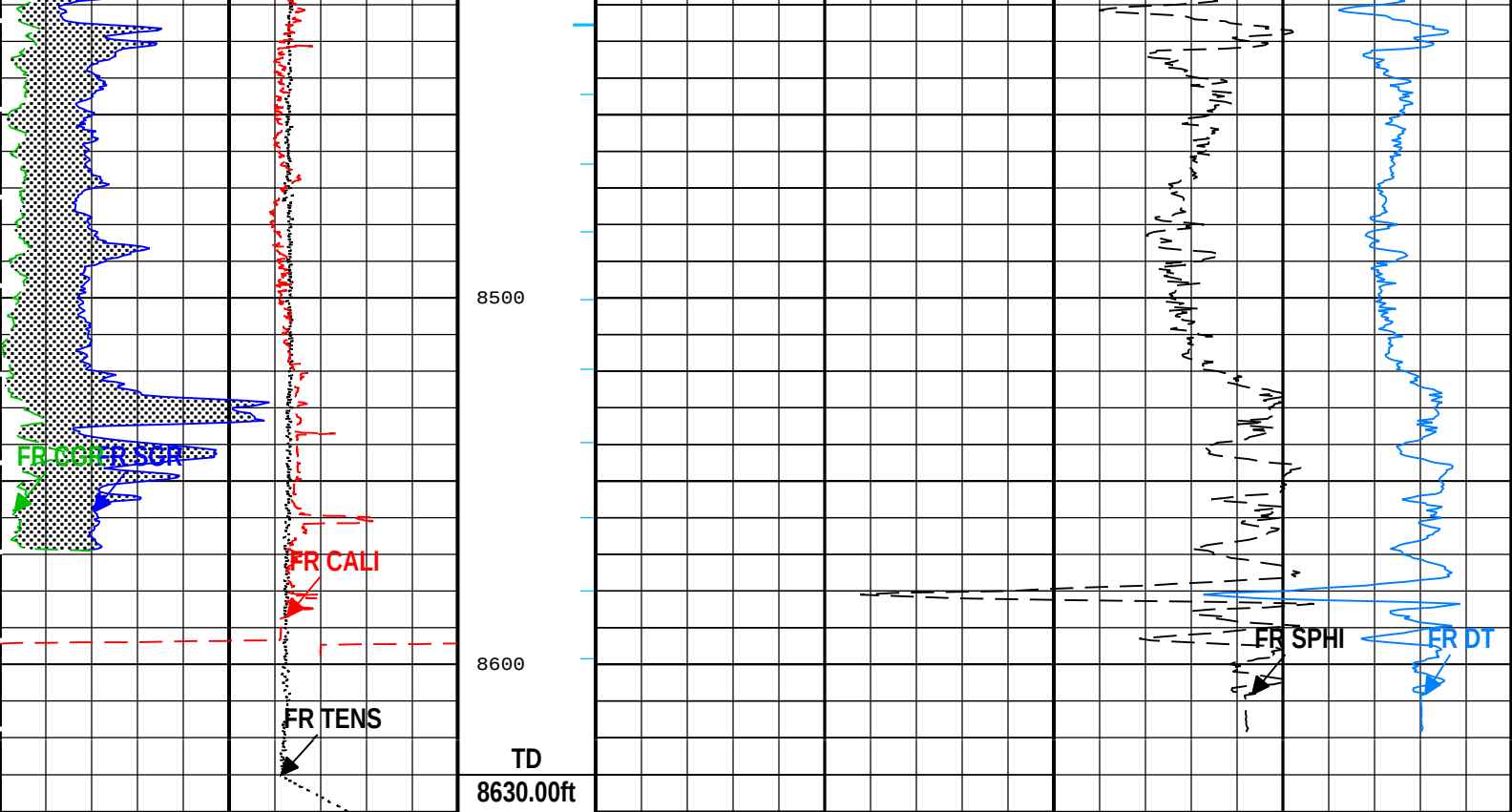
7600

7700

7800







2" Sonic

Uranium Indicator		
Cable Tension (TENS)		
10000	lbf	0
Caliper (CALI) HDRS-B		
6	in	16
Spectroscopy Gamma Ray (SGR) HNGS-BA		
0	gAPI	100
Gamma Ray Contribution from Thorium and Potassium (CGR) HNGS-BA		
0	gAPI	100

Delta-T (also called Slowness or Interval Transit Time) (DT) DSLT-H		
140	us/ft	40
Sonic Porosity (SPHI) DSLT-H		
0.3	ft3/ft3	-0.1

TIME_1900 - Time Marked every 60.00 (s)

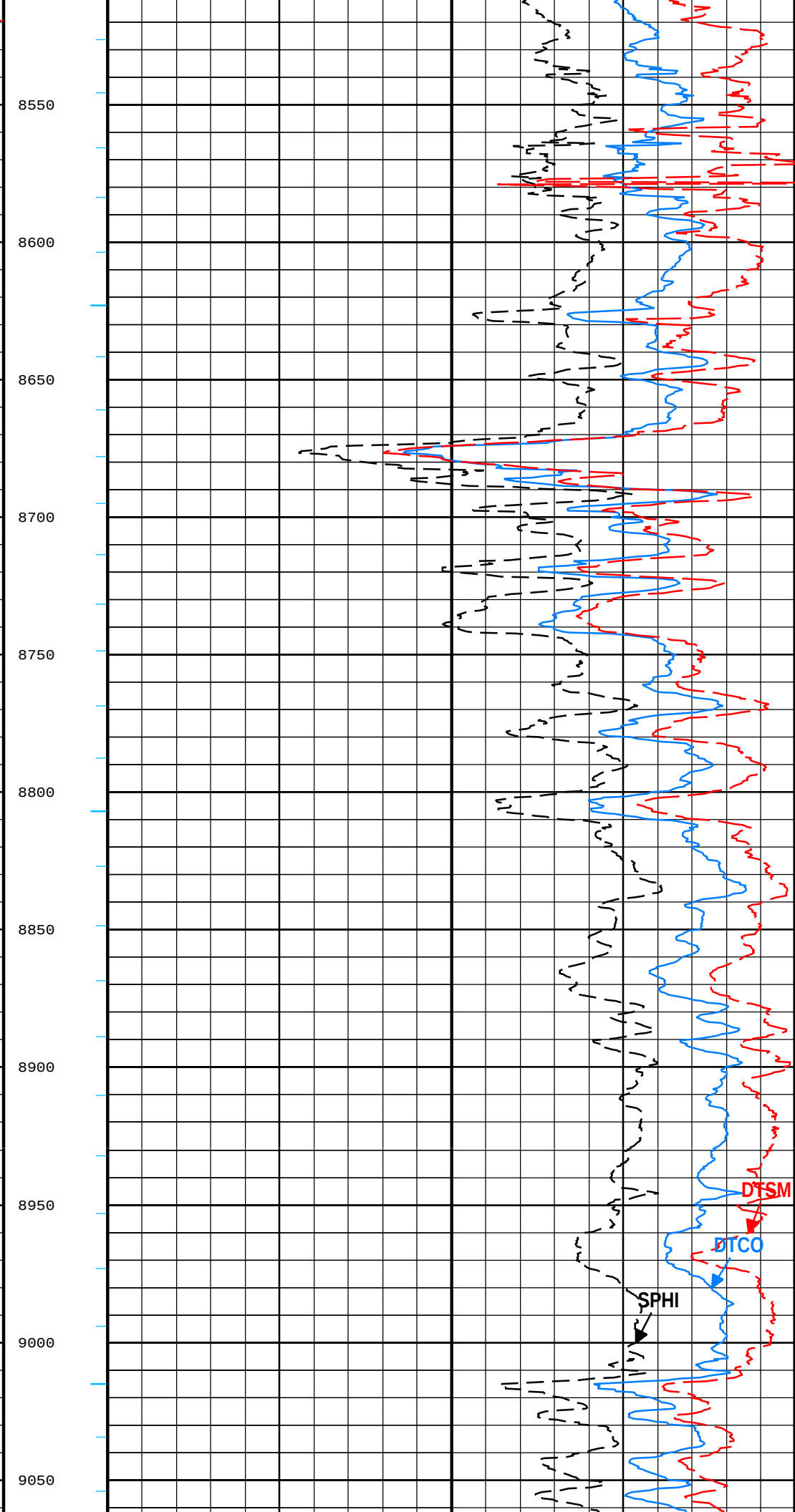
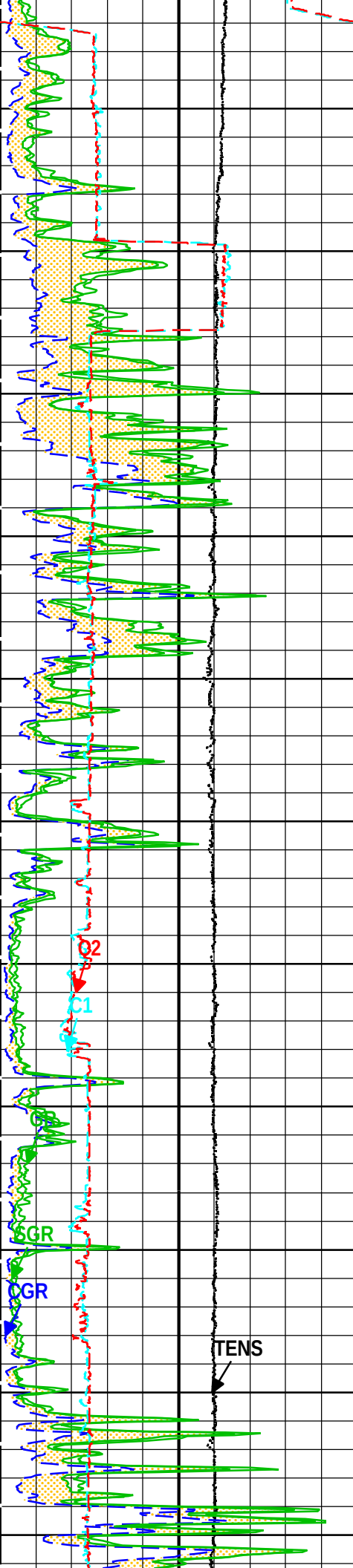
ITT - Integrated Transit Time every 1.00 (ms)

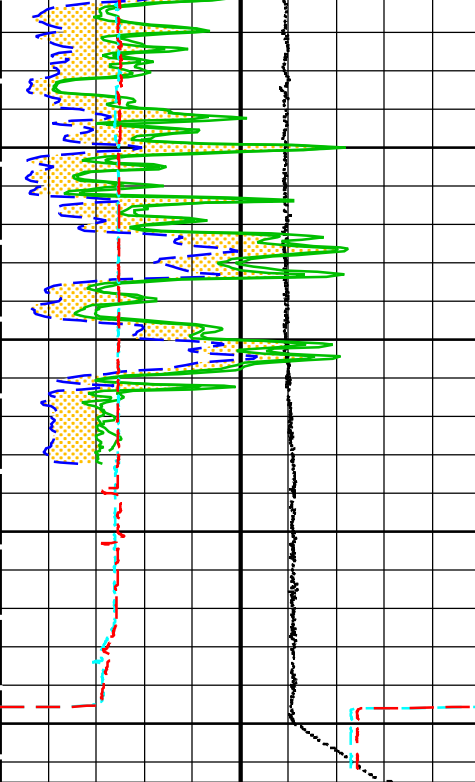
ITT - Integrated Transit Time every 10.00 (ms)

Description: HRLT BASIC LOG Format: Log (BHC 2 inch General) Index Scale: 2 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 30-Nov-2014 17:16:54

Main Pass 2" = 100'

Software Version			
Acquisition System		Version	
MaxWell		4.0.9163.3000	
Application Patch		Patch-SP-10767_26570-4.0.9163.3001	
		Patch-TestKit_MSCT_KinematicUpgrade_2013C4-28999-4.0.9575.2000	
Tool Elements	Description	Software Version	Firmware Version
FBPC-A	FullBore Scanner Control Cartridge	4.0.9469.3000	
HNGS-BA	HNGS Sonde Element	4.0.9469.3000	2.0
MAMS-BA	MAMS-BA Multimode Array Sonic Minimum Service Sonde	4.0.9469.3000	
EDTC-B	Enhanced Digital Telemetry Cartridge - B	4.0.9469.3000	



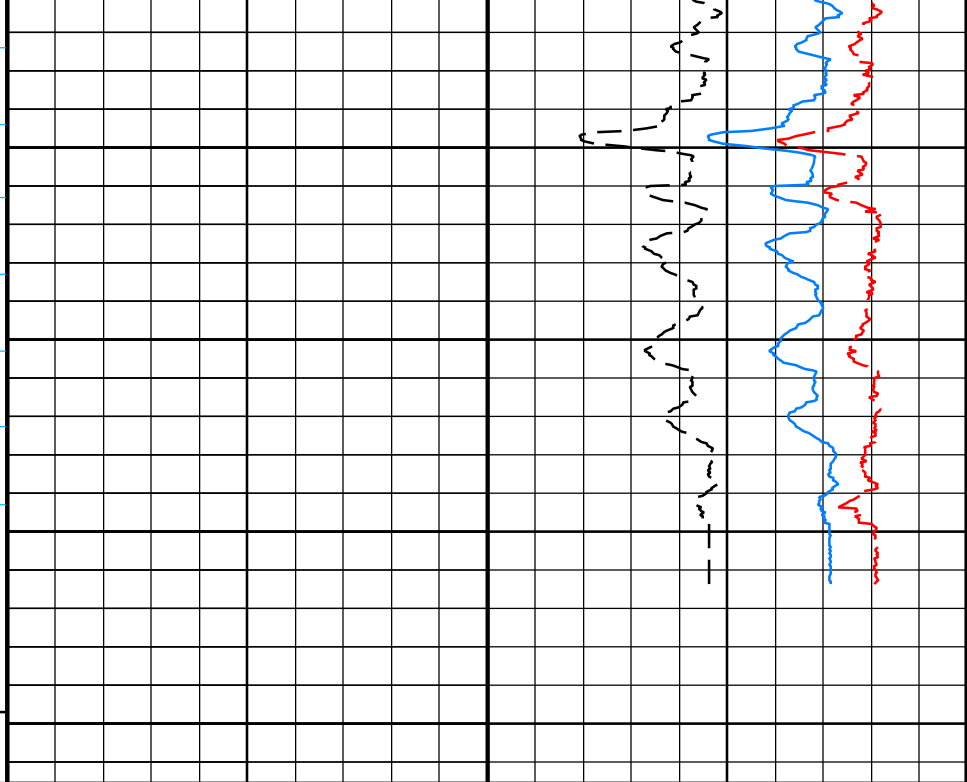


9100
9150
9200

TD
9247.00ft

Uranium Indicator		
Cable Tension (TENS)		
10000	lbf	0
Gamma Ray Contribution from Thorium and Potassium (CGR) HNGS-BA		
0	gAPI	150
Spectroscopy Gamma Ray (SGR) HNGS-BA		
0	gAPI	150
Gamma Ray (GR) EDTC-B		
0	gAPI	150
Caliper 1 (C1) FBST-E		
6	in	16
Caliper 2 (C2) FBST-E		
6	in	16

TIME_1900 - Time Marked every 60.00 (s)



Sonic Porosity (SPHI) MAST-B		
0.3	ft3/ft3	-0.1
Delta-T Compressional (DTCO) MAST-B		
100	us/ft	40
Delta-T Shear (DTSM) MAST-B		
180	us/ft	80

—|ITT - Integrated Transit Time every 10.00 (ms)

—|ITT - Integrated Transit Time every 1.00 (ms)

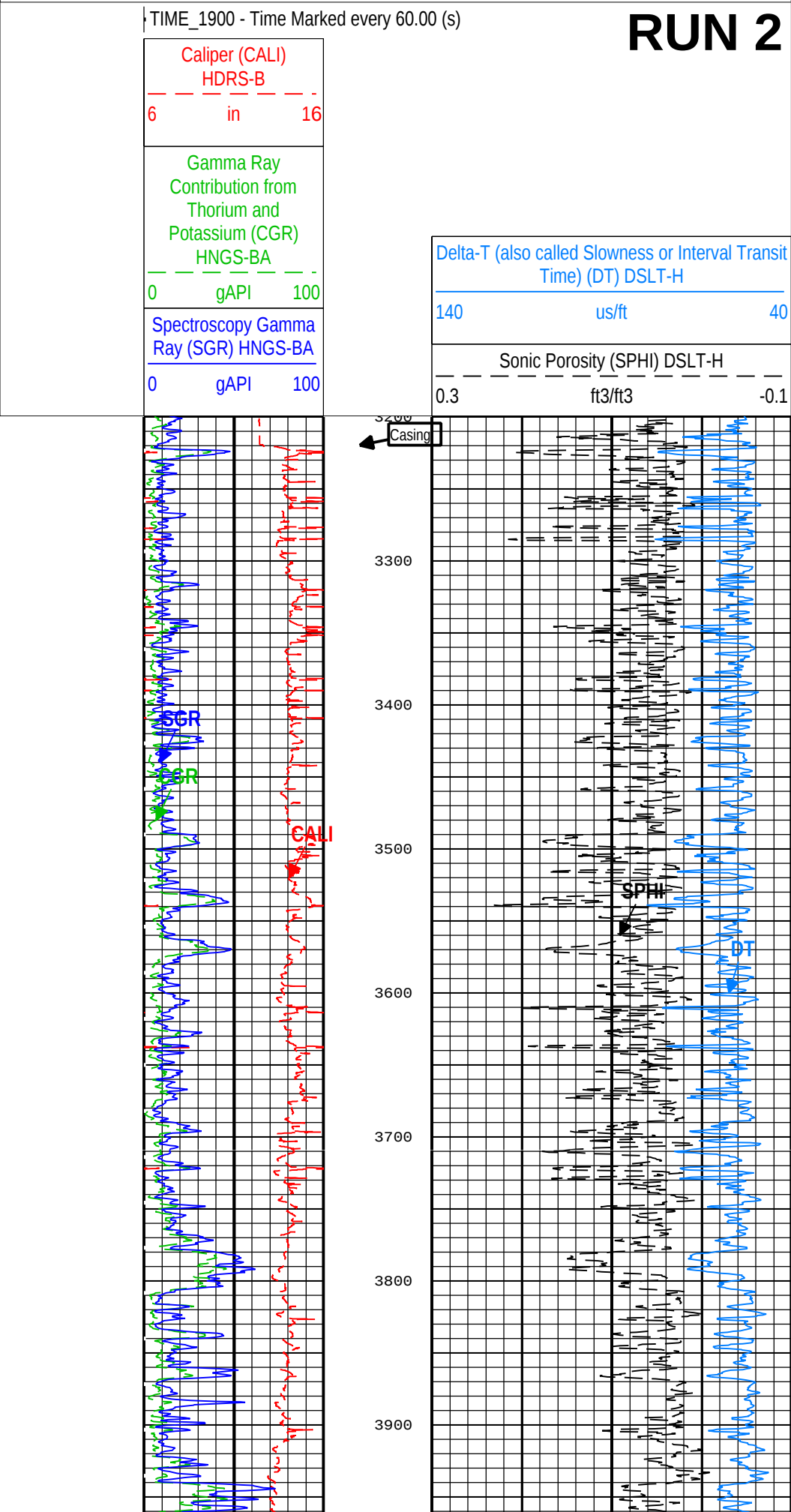
Description: HRLT BASIC LOG Format: Log (DSI 2 inch General) Index Scale: 2 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 10-Dec-2014 13:22:54

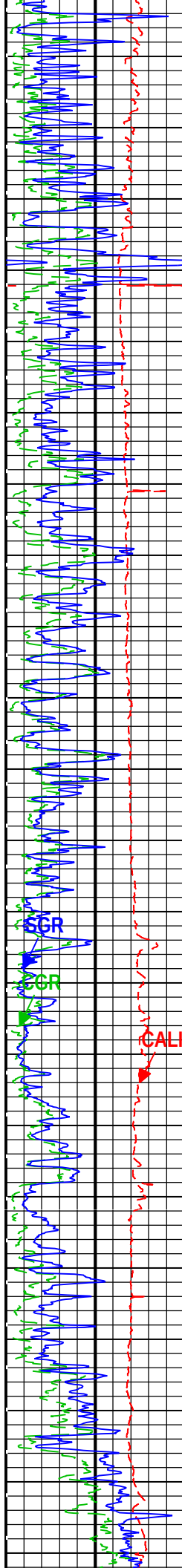
Main Pass 1" = 100'

Log	Company:PB ENERGY STORAGE SERVICES, INC	Well:DCP Linam Ranch AGI #2
		Two: Main[3]:Up:S021

Description: HRLT BASIC LOG Format: Log (BHC 1 inch General) Index Scale: 1 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 30-Nov-2014 17:17:01

Channel	Source	Sampling
CALI	HDRS-B:HRCC-B:HRCC-B	1in
CGR	HNGS-BA:HNGS-BA:HNGS-BA	6in
DT	DSLT-H:SLS-E:SLS-E	6in
SGR	HNGS-BA:HNGS-BA:HNGS-BA	6in





4000

4100

4200

4300

4400

4500

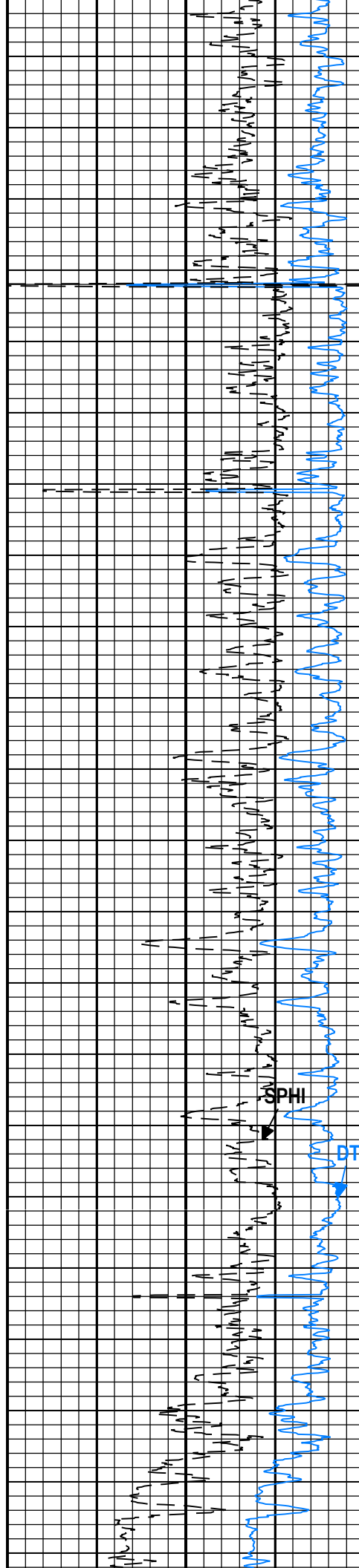
4600

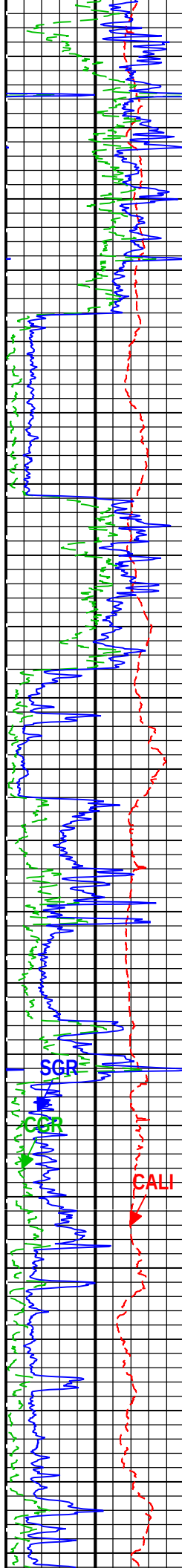
4700

4800

4900

5000





5100

5200

5300

5400

5500

5600

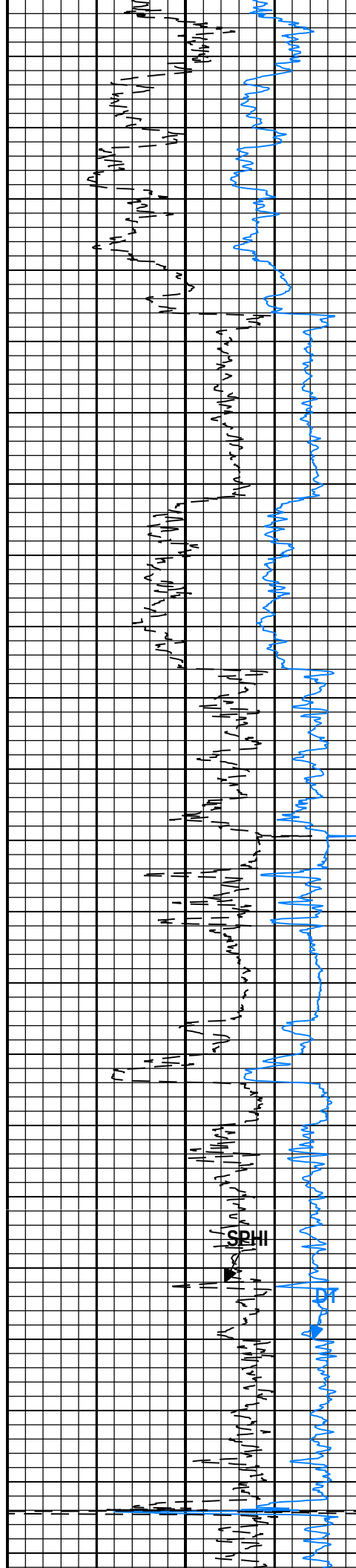
5700

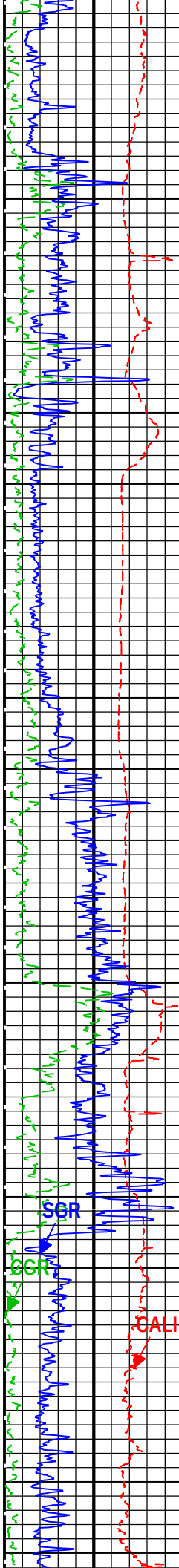
5800

5900

6000

6100





6200

6300

6400

6500

6600

6700

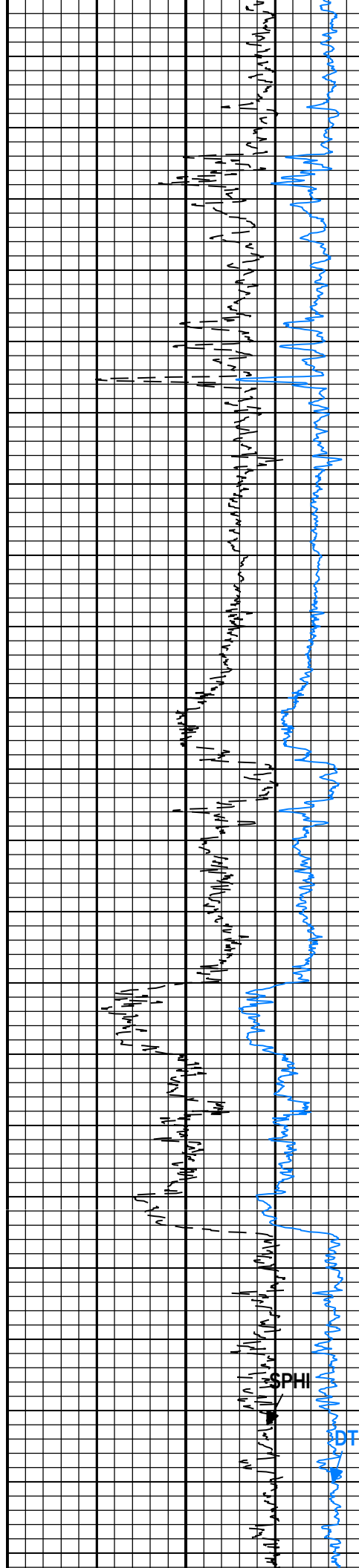
6800

6900

7000

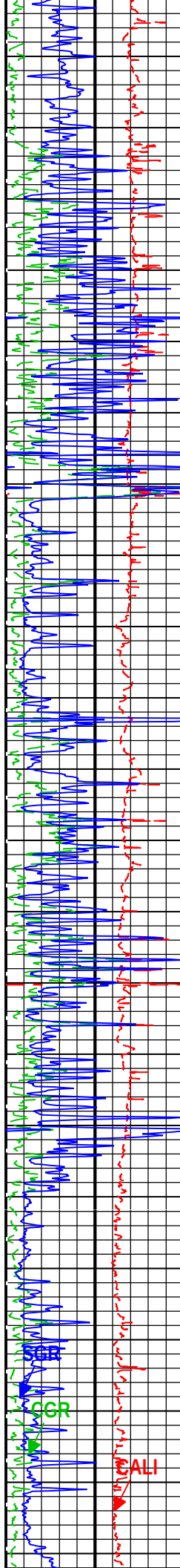
7100

7200



PHI

PHI



7300

7400

7500

7600

7700

7800

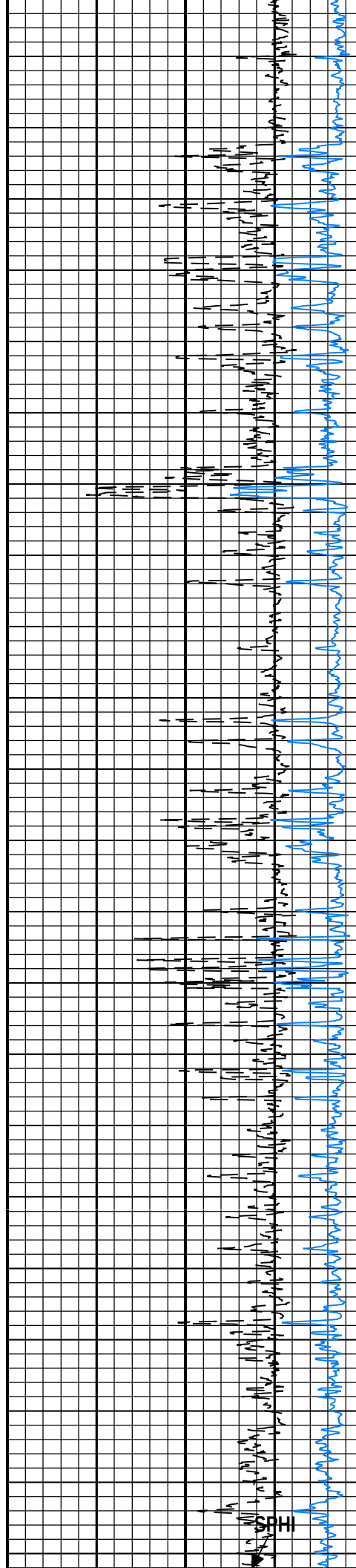
7900

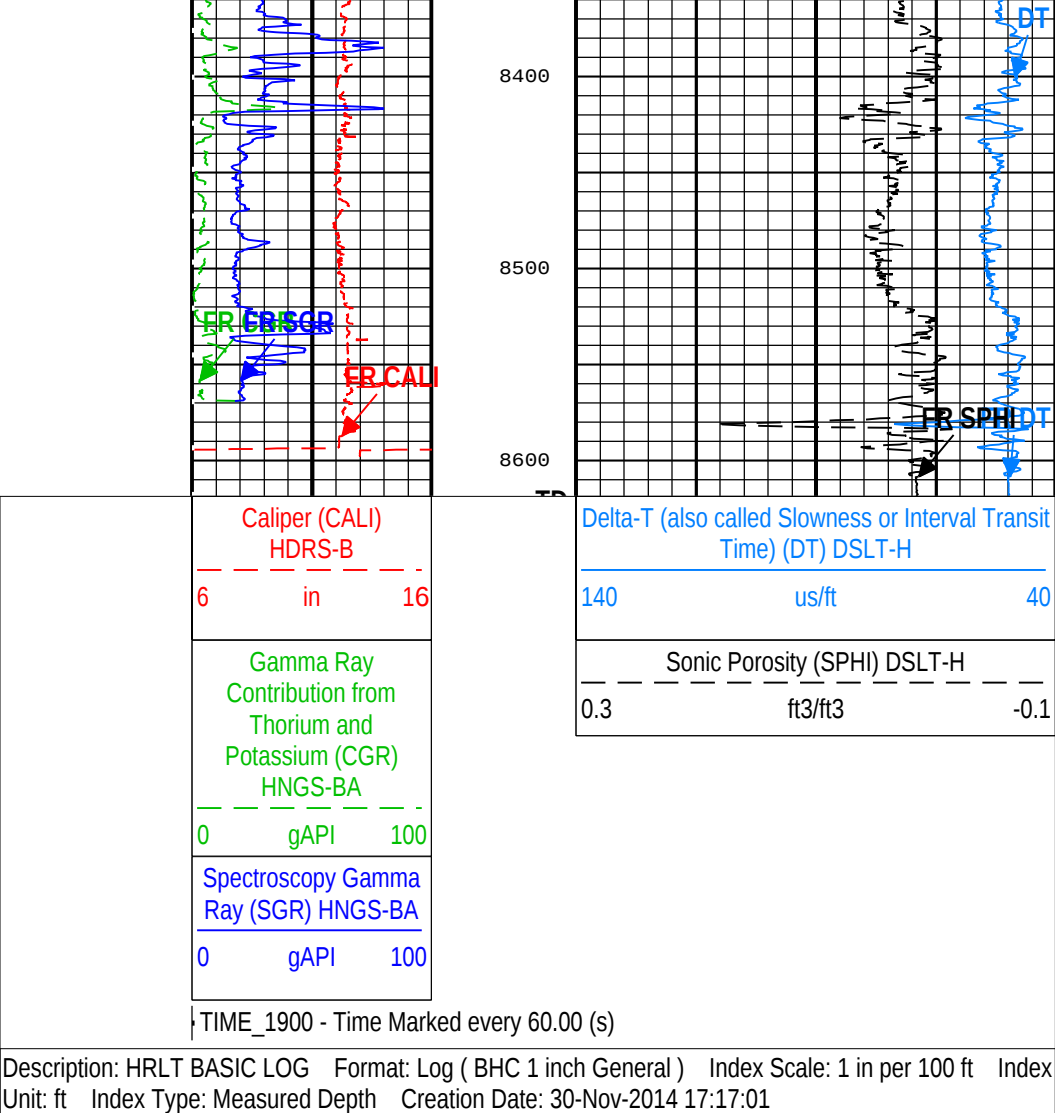
8000

8100

8200

8300





Main Pass 1" = 100'									
Pass Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
Run 3c	Repeat[2]:Up	Up	8501.97 ft	9265.19 ft	10-Dec-2014 11:36:38 AM	10-Dec-2014 12:12:34 PM	ON	7.18 ft	Yes
All depths are referenced to toolstring zero									
Log	Company:PB ENERGY STORAGE SERVICES, INC						Well:DCP Linam Ranch AGI #2		
	Run 3c: Repeat[2]:Up:S017								

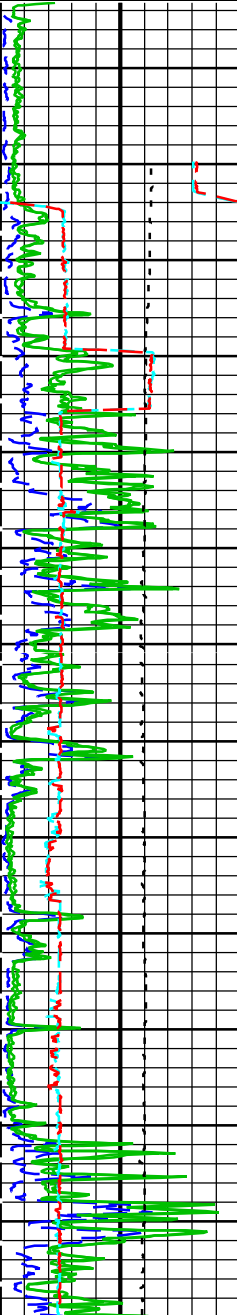
Description: HRLT BASIC LOG Format: Log (DSI 1 inch General) Index Scale: 1 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 10-Dec-2014 13:30:27		
Channel	Source	Sampling
C1	FBST-E:FBPC-A:FBPC-A	1.5in
C2	FBST-E:FBPC-A:FBPC-A	1.5in
CGR	HNGS-BA:HNGS-BA:HNGS-BA	6in
DTCO	MAST-B:MAMS-B:MAMS-BA	6in
DTSM	MAST-B:MAMS-B:MAMS-BA	6in
GR	EDTC-B:EDTC-B:EDTC-B	6in
SGR	HNGS-BA:HNGS-BA:HNGS-BA	6in
SPHI	MAST-B:MAMS-B:MAMS-BA	6in
TENS	WLWorkflow	6in
TIME_1900	WLWorkflow	0.1in

TIME_1900 - Time Marked every 60.00 (s)

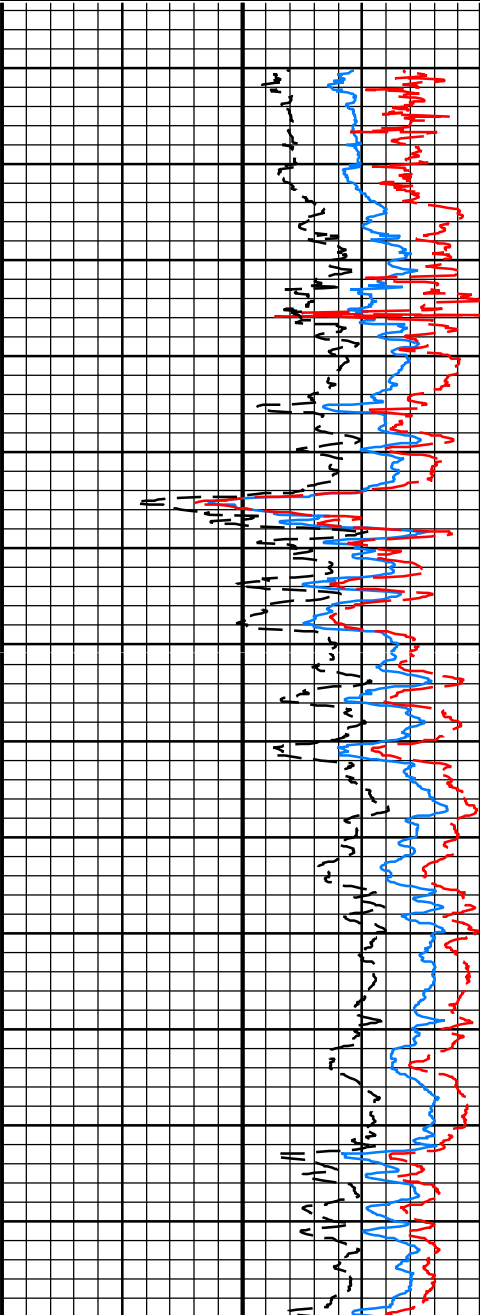
RUN 3

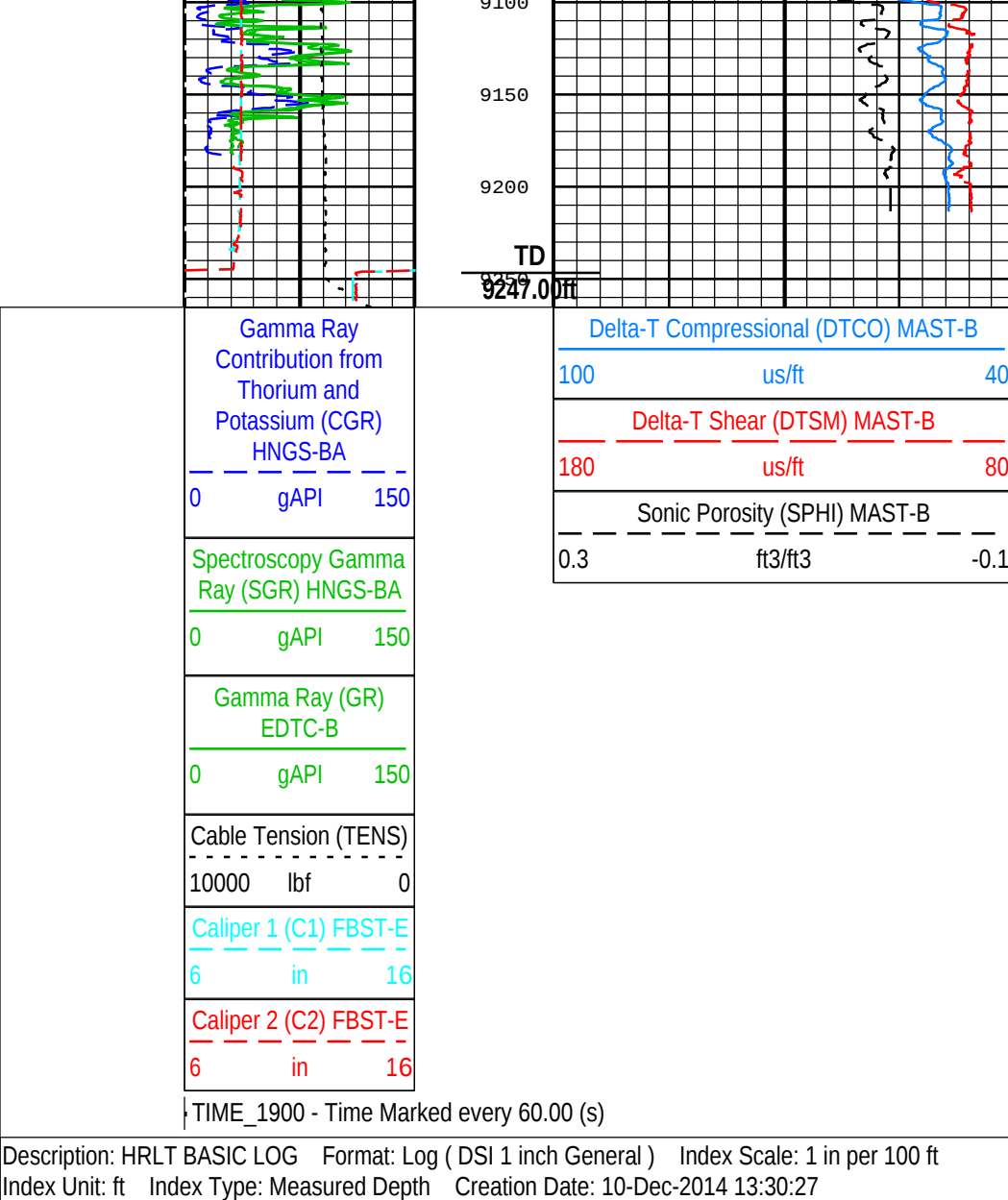
Gamma Ray Contribution from Thorium and Potassium (CGR) HNGS-BA		
0	gAPI	150
Spectroscopy Gamma Ray (SGR) HNGS-BA		
0	gAPI	150
Gamma Ray (GR) EDTC-B		
0	gAPI	150
Cable Tension (TENS)		
10000	lbf	0
Caliper 1 (C1) FBST-E		
6	in	16
Caliper 2 (C2) FBST-E		
6	in	16

Delta-T Compressional (DTCO) MAST-B		
100	us/ft	40
Delta-T Shear (DTSM) MAST-B		
180	us/ft	80
Sonic Porosity (SPHI) MAST-B		
0.3	ft3/ft3	-0.1



8450
8500
8550
8600
8650
8700
8750
8800
8850
8900
8950
9000
9050
9100





Company:	PB ENERGY STORAGE SERVICES, INC	Schlumberger
Well:	DCP Linam Ranch AGI #2	
Field:	AGI; Bone Spring-Wolfcamp	
County:	Lea	
Country:	USA	
Borehole Compensated Sonic		
Spectral Gamma Ray		
Final Composite 1" & 2"		