

Company: Southwestern Energy Production Company

Well: Diamond T Sheep 7-92 1-26

Field: Sand Wash Basin/Niobrara

County: Moffat State: Colorado

HNGS

Spectral Gamma Ray

County:	Moffat		
Field:	Sand Wash Basin/Niobrara		
Location:	NWNW Sec 26-T7N-R92W		
Well:	Diamond T Sheep 7-92 1-26		
Company:	Southwestern Energy Production Company		
Location:			
NWNW Sec 26-T7N-R92W		Elev.: K.B. 6702.00 ft	
SHL: 660' FNL X 930' FWL		G.L. 6680.00 ft	
Lat/Long: 40.534283/-107.693039		D.F. 6701.00 ft	
Permanent Datum:		Ground Level 6680.00 f	
Log Measured From:		Kelly Bushing 22.00 ft above Perm.Datum	
Drilling Measured From:		Kelly Bushing	
API Serial No. 05-081-07804-0000		Section: 26 Township: 7N Range: 92W	
Logging Date	11-Sep-2014		
Run Number	One		
Depth Driller	5681.00 ft		
Schlumberger Depth	5680.00 ft		
Bottom Log Interval	5680.00 ft		
Top Log Interval	1296.00 ft		
Casing Driller Size @ Depth	13.375 in @ 1296.00 ft		
Casing Schlumberger	1296 ft		
Bit Size	12.25 in		
Type Fluid In Hole	Water Based Mud		
MUD			
Density	9 lbm/gal	44 s	
Fluid Loss	PH 11.2 cm3	8.6	
Source of Sample			
RM @ Meas Temp	0.15 ohm.m @	85 degF	
RMF @ Meas Temp	0.12 ohm.m @	85 degF	
RMC @ Meas Temp	2 ohm.m @	85 degF	
Source RMF	Calculated	Calculated	
RM @ BHT	0.08 @ 160	0.07 @ 160	
Max Recorded Temperatures			
Circulation Stopped	11-Sep-2014	04:00:00	
Logger on Bottom	11-Sep-2014	18:30:00	
Unit Number	9103	Elk City, OK	
Recorded By	Avery Becker		
Witnessed By	Sweta Bose		

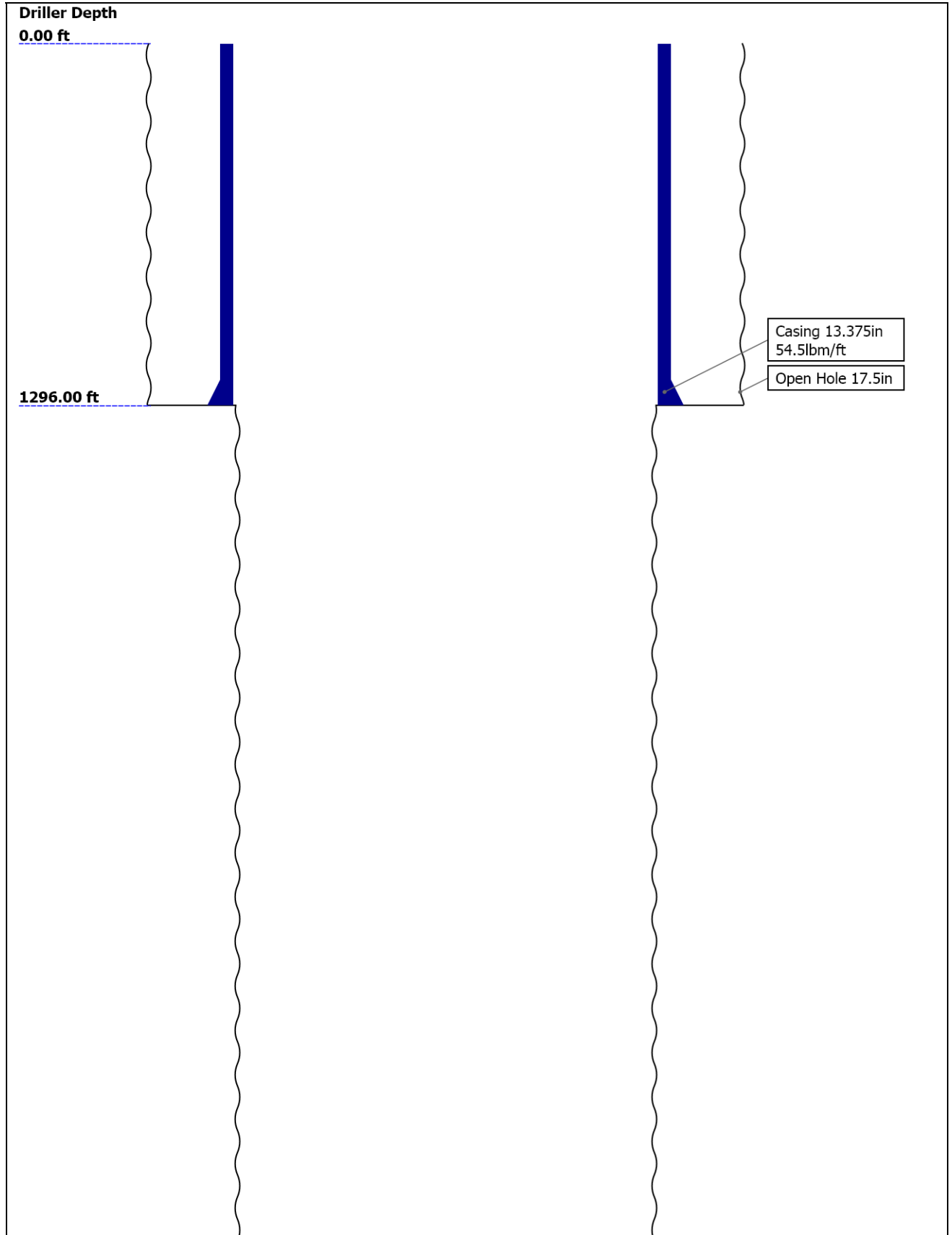
Disclaimer

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Well Sketch



5681.00 ft

Open Hole 12.25in

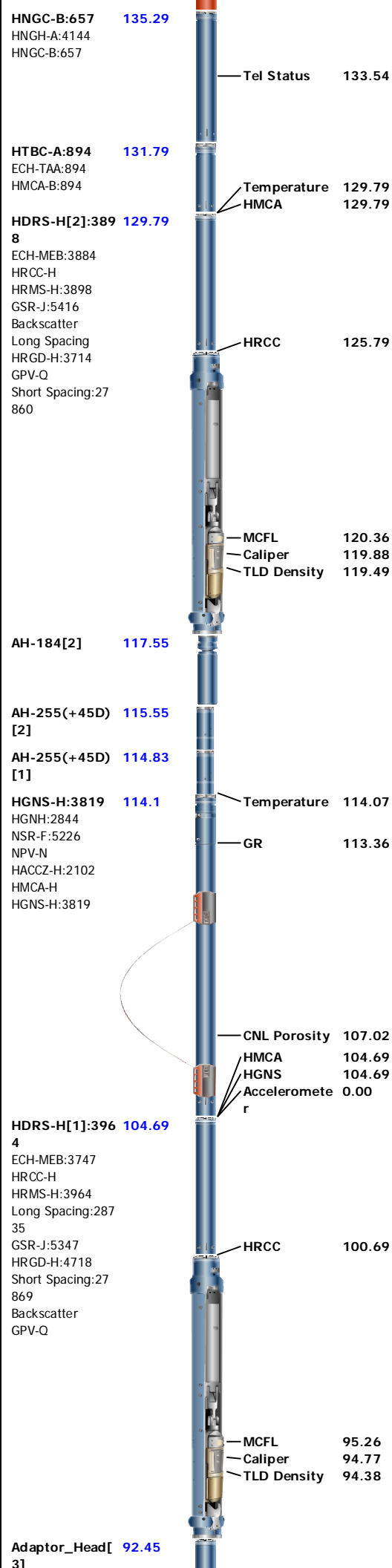
Borehole Size/Casing/Tubing Record

Bit					
Bit Size (in)	17.5	12.25			
Top Driller (ft)	0	1296			
Top Logger (ft)	0	1296			
Bottom Driller (ft)	1296	5681			
Bottom Logger (ft)	1296	5680			
Casing					
Size (in)	13.375				
Weight (lbm/ft)	54.5				
Inner Diameter (in)	12.615				
Grade	N/A				
Top Driller (ft)	0				
Top Logger (ft)	0				
Bottom Driller (ft)	1296				
Bottom Logger (ft)	1296				

Remarks and Equipment Summary

One: Toolstring				One: Remarks
Equip name	Length	MP name	Offset	Toolstring run as per tool sketch
LEH-QT LEH-QT	152.9			Matrix: Limestone, 2.71 g/cc
				ZAIT data affected by large hole & salty mud
				Cement volume calculated assuming FCD=9.625 in
				Caliper checks: HDRS 1=12.74 in, HDRS2=12.657 in, PPC1=12.78, 12.60 in
EDTC-B EDTH-B EDTG-A EDTC-B	149.99			Crew: Jon Green & Daverick Newsome
		CTEM	146.49	Thank you for choosing Schlumberger
		ACCZ	0.00	
		HV	0.00	
		Gamma Ray	144.62	
		TelStatus	143.49	
HNGS-BA:392 HEH-K:1007 HNGS-BA:392	143.49			
		GR	140.5	







AH-184[1]:274 88.45
6

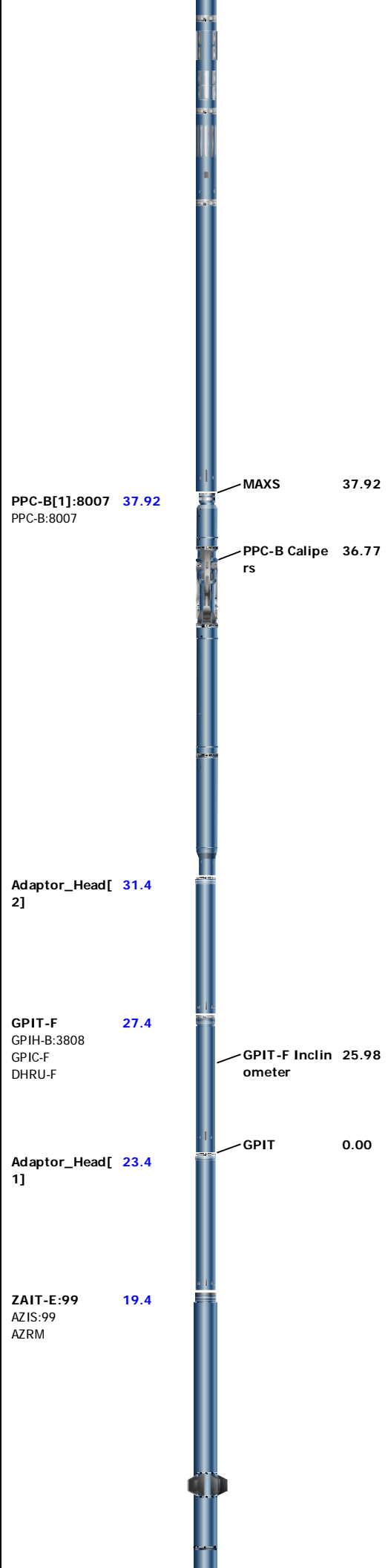
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PPC-B:8671

PPC-B Calipers 85.3

AH-255(-45D) 79.93

MAST-B:8159 79.2
ECH-SF:8143
MAPC-BA:8143
MAMS-BA:8159
MASS-BA:8079
MAXS-BA:8045

MAMS 63.76



PPC-B[1]:8007 37.92
PPC-B:8007

MAXS 37.92

PPC-B Calipers 36.77

Adaptor_Head[2] 31.4

GPIT-F 27.4
GPIH-B:3808
GPIC-F
DHRU-F

GPIT-F Inclinator 25.98

Adaptor_Head[1] 23.4

GPIT 0.00

ZAIT-E:99 19.4
AZIS:99
AZRM



Temperature 8.12
 Power Supply 8.12
 Induction 8.12

SP 0.08
 Mud Resistivity 0.00
 Head Tension
 TOOL_ZERO

Lengths are in ft
 Maximum Outer Diameter = 6.000 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	5824		
Calibration Date	23-Jul-2014		
Calibrator Serial Number			
Calibration Cable Type	7-46A-XS		
Wheel Correction 1	1		
Wheel Correction 2	1		

Tension Device

Type	CMTD-B/A		
Serial Number	2576		
Calibration Date	15-Aug-2014		
Calibrator Serial Number	1018		
Number of Calibration Points	10		
Calibration Root Mean Square Error	13		
Calibration Peak Error	20		

Logging Cable

Type	7-46A-XS		
Serial Number	U714050		
Length	30000.00 ft		
Conveyance Type	Wireline		
Rig Type	Land		

One:Depth Control Parameters

Depth Control Remarks

Log Sequence	First Log In the Well	First run in well depth control procedures followed
Rig Up Length At Surface		IDW used as primary depth device, z-chart used for secondary
Rig Up Length At Bottom		
Rig Up Length Correction		
Stretch Correction	5.00 ft	
Tool Zero Check At Surface		

One

Software Version

Software version

Acquisition System		Version	
MaxWell		4.0.9163.3000	
Application Patch		Patch-SP-10767_18214-4.0.9163.3001	
		Patch-Hotfix_AIT_Akima_SP2-22990-4.0.9434.3002	
Computation	Description	Version	
Borehole	Borehole Ensemble provides common Borehole Parameters and Channels	4.0.9433.3000	
Tool Elements	Description	Software Version	Firmware Version
HNGS-BA	HNGS Sonde Element	4.0.9360.3000	2.0

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
One	Log[3]:Up	Up	1028.68 ft	5681.24 ft	11-Sep-2014 6:55:18 PM	11-Sep-2014 10:26:12 PM	ON	0.00 ft	No

All depths are referenced to toolstring zero

Log

Company:Southwestern Energy Production Company























Well:Diamond T Sheep 7-92 1-26

One: Log[3]:Up:S009

Description: HNGS Basic Format: Log (Import (2) of HNGS Basic) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 12-Sep-2014 00:06:03

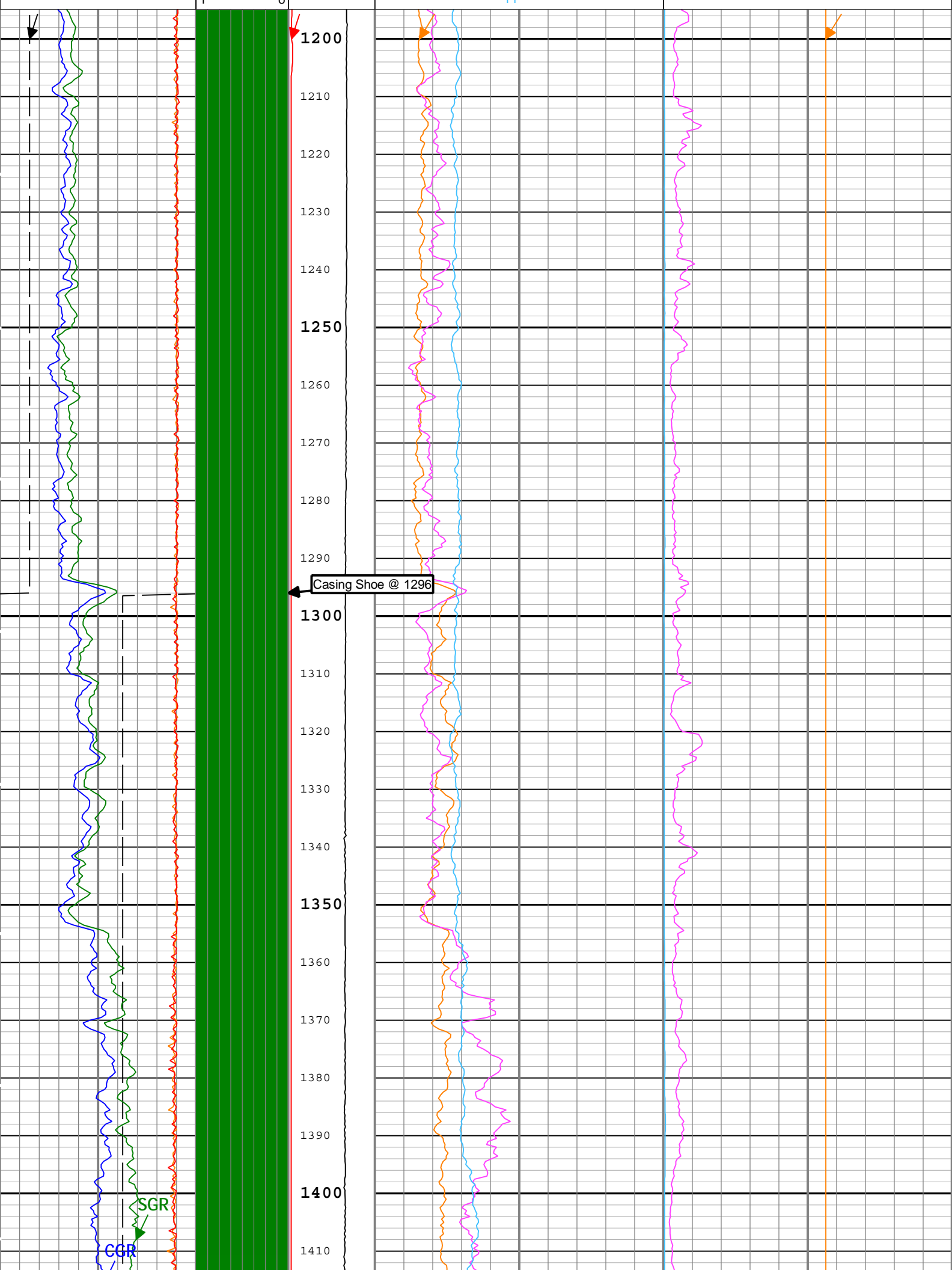
TIME_1900 - Time Marked every 60.00 (s)

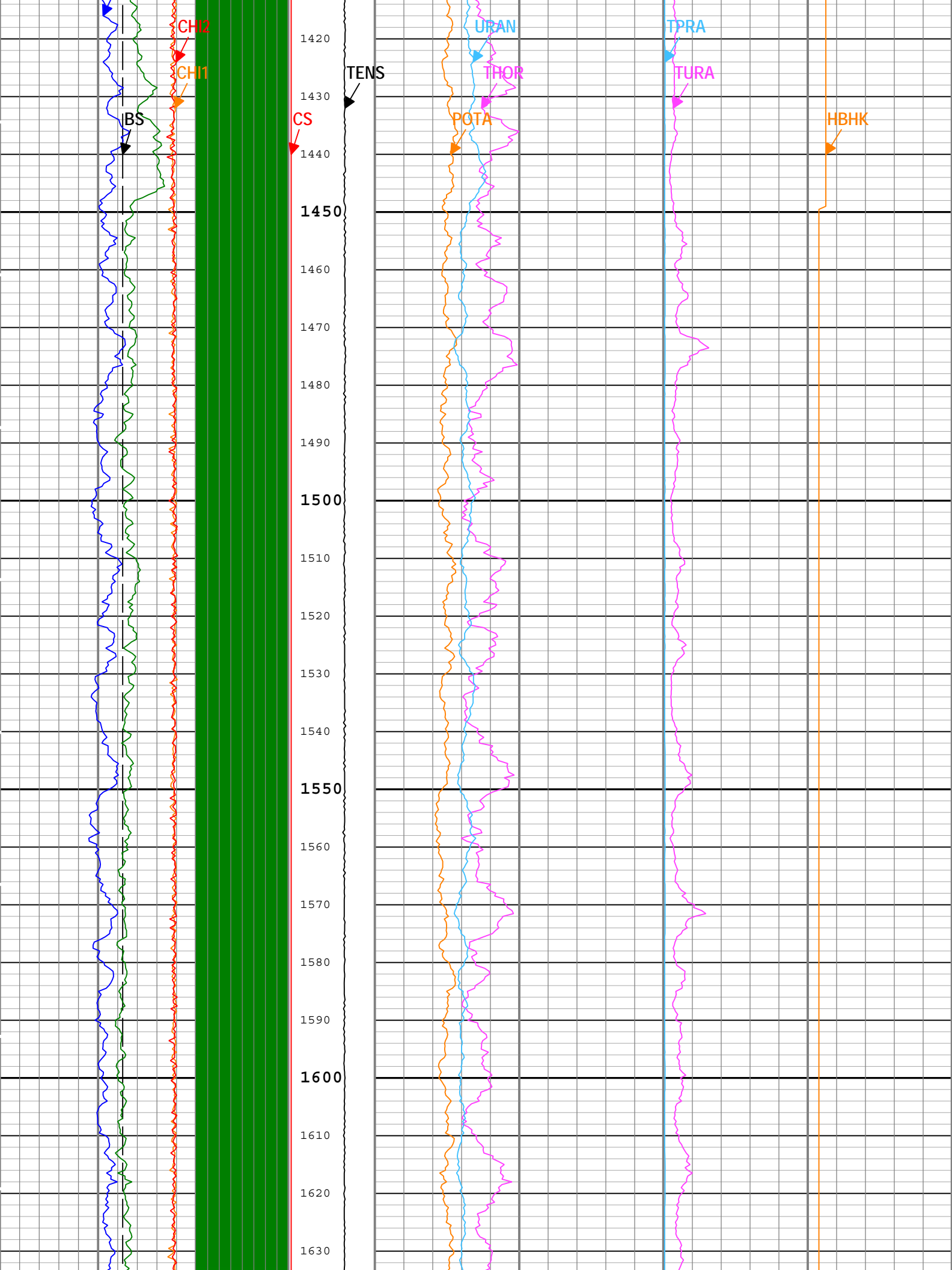
Log Quality Control Gamma Ray Status (LOC_GR) HNGS-BA

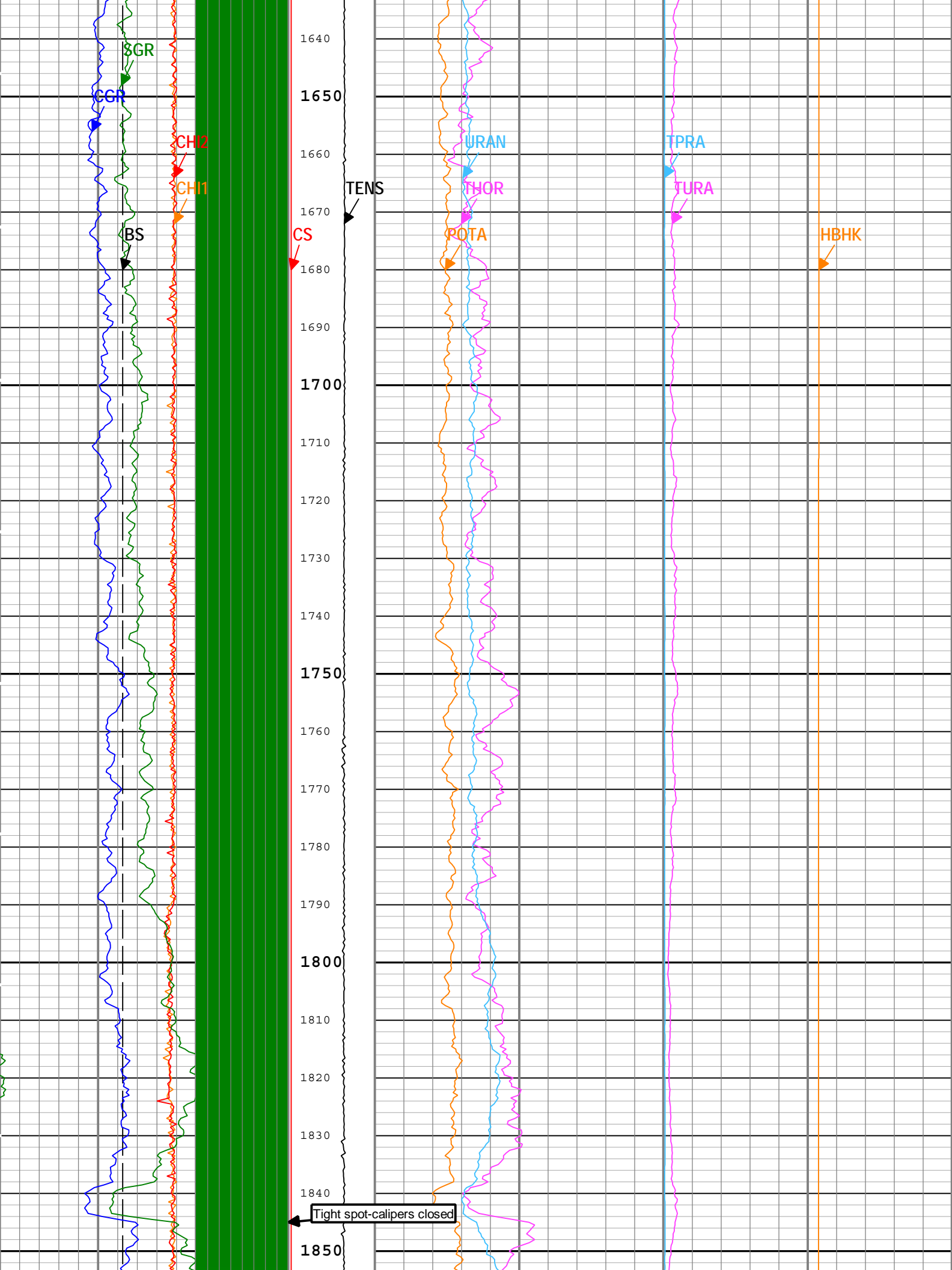
1 - CartHwStatus - Cartridge Hardware Status :	 Cartridge Hardware: Normal	 Cartridge Hardware: Warning
	 Cartridge Hardware: Error	
2 - CartTempStatus - Cartridge Temperature Status :	 Cartridge Temperature < 150 °C	
	 150 °C <= Cartridge Temperature < 175 °C	 Cartridge Temperature >= 175 °C
3 - Det1TempStatus - Detector 1 Temperature Status :	 Detector 1 Temperature < 50 °C	 50 °C <= Detector 1 Temperature < 80 °C
	 Detector 1 Temperature >= 80 °C	
4 - Det2TempStatus - Detector 2 Temperature Status :	 Detector 2 Temperature < 50 °C	 50 °C <= Detector 2 Temperature < 80 °C
	 Detector 2 Temperature >= 80 °C	
5 - Det1CtrlLoopStatus - Detector 1 Control Loop Status :	 Detector 1 Control Loop: Normal	 Detector 1 Control Loop: Warning
	 Detector 1 Control Loop: Error	
6 - Det2CtrlLoopStatus - Detector 2 Control Loop Status :	 Detector 2 Control Loop: Normal	 Detector 2 Control Loop: Warning
	 Detector 2 Control Loop: Error	
7 - Det1ChiSqrStatus - Detector 1 Chi Squared Status :	 Detector 1 Chi Squared <= 3.0	 Detector 1 Chi Squared > 3.0
8 - Det2ChiSqrStatus - Detector 2 Chi Squared Status :	 Detector 2 Chi Squared <= 3.0	 Detector 2 Chi Squared > 3.0

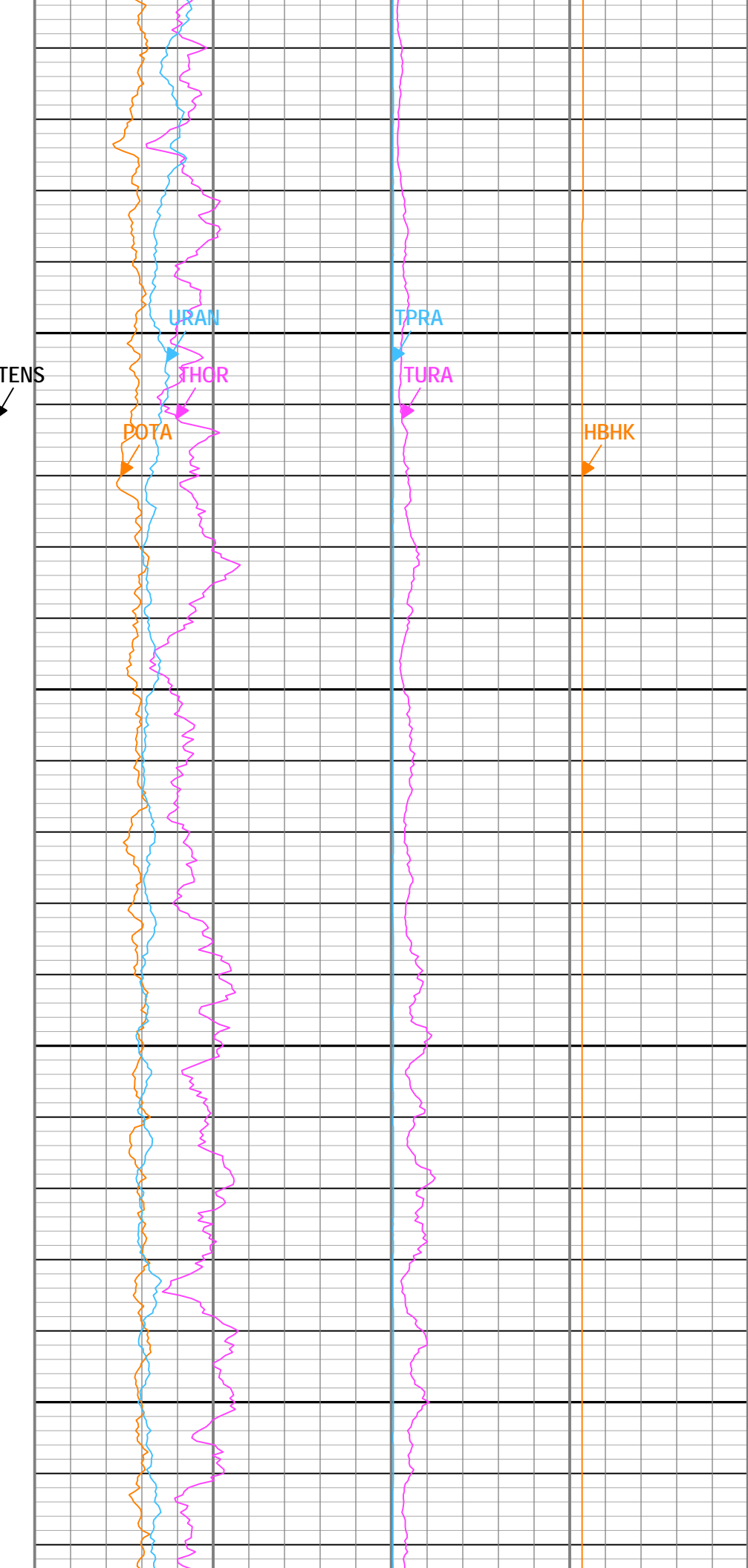
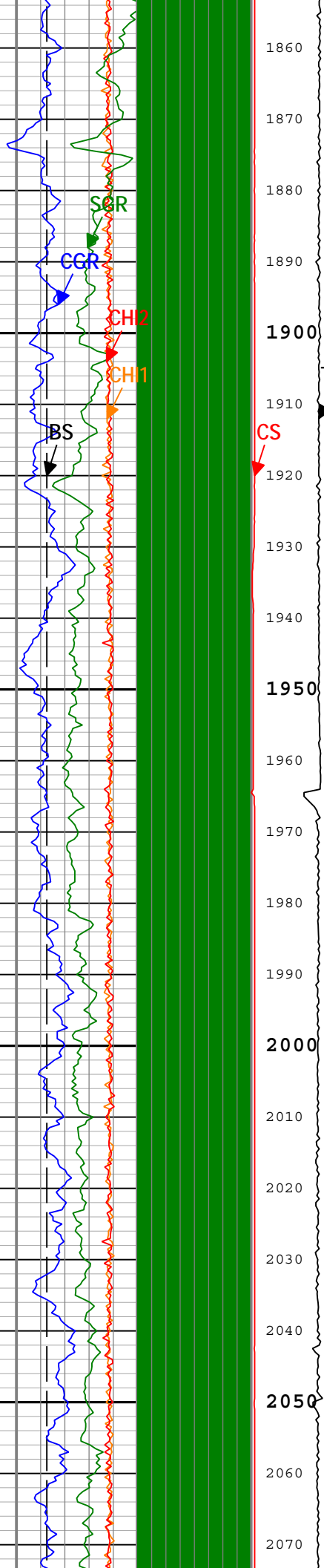
Bit Size (BS)		Cable Speed (CS)		Borehole Potassium Concentration (HBHK) HNGS-BA	
6	in	0	50000		
Detector 1 Chi-Squared (CHI1) HNGS-BA		Potassium Concentration (POTA) HNGS-BA			
10	0	0	%	-5	5
Detector 2 Chi-Squared (CHI2) HNGS-BA		Thorium Concentration (THOR) HNGS-BA		Thorium/Uranium Ratio (TURA) HNGS-BA	
10	0	0	ppm	0.01	100
Gamma Ray Contribution from Thorium and Potassium (CGR) HNGS-BA		Uranium Concentration (URAN) HNGS-BA		Thorium/Potassium Ratio (TPRA) HNGS-BA	
0	gAPI	10000	0	-10	30
Spectroscopy Gamma Ray (SGR) HNGS-BA		Cable Tension (TENS)			
0	gAPI	10000	0	ppm	1000

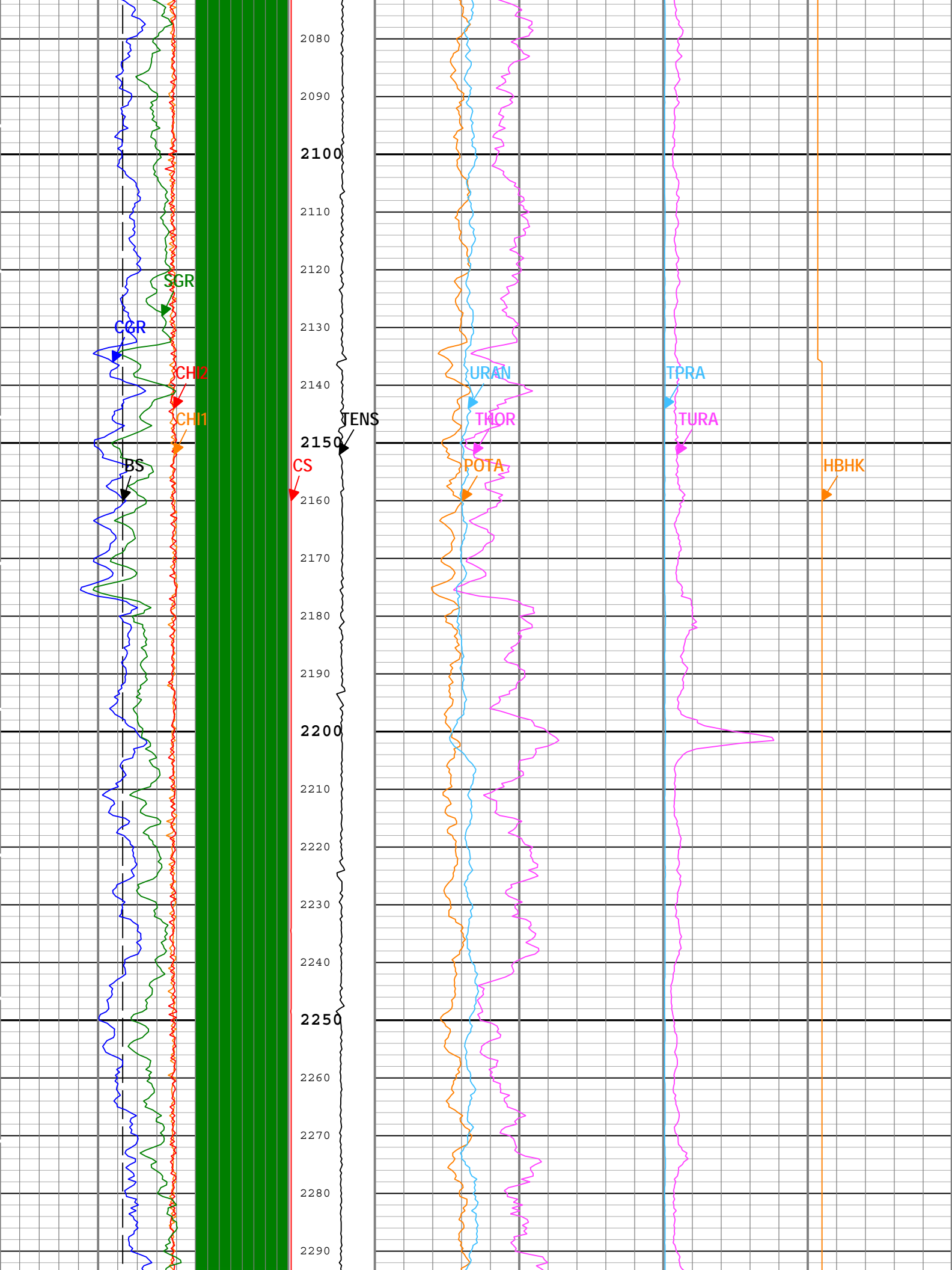
Log Quality Control Gamma Ray Status (LOC_GR) HNGS-BA

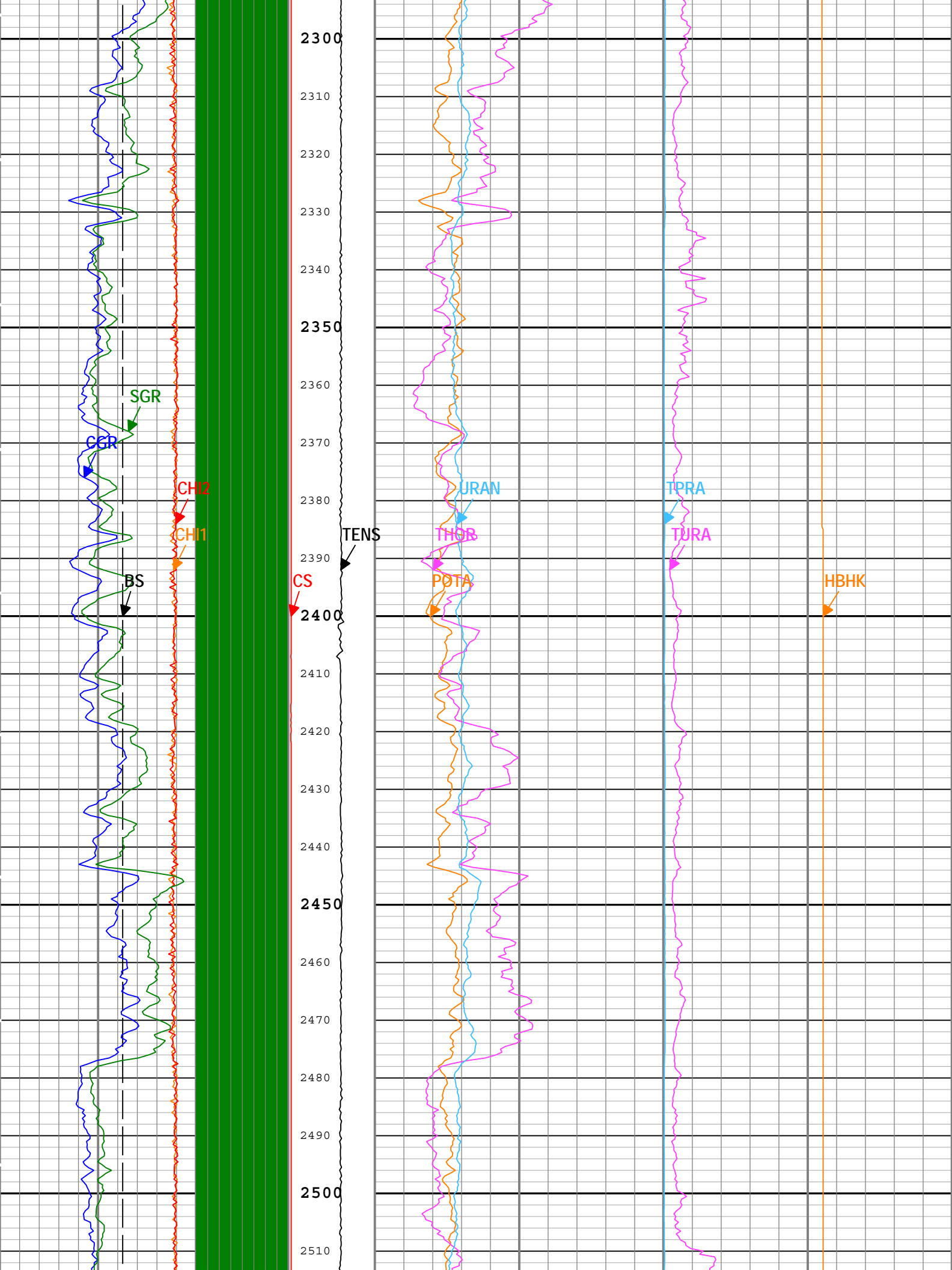


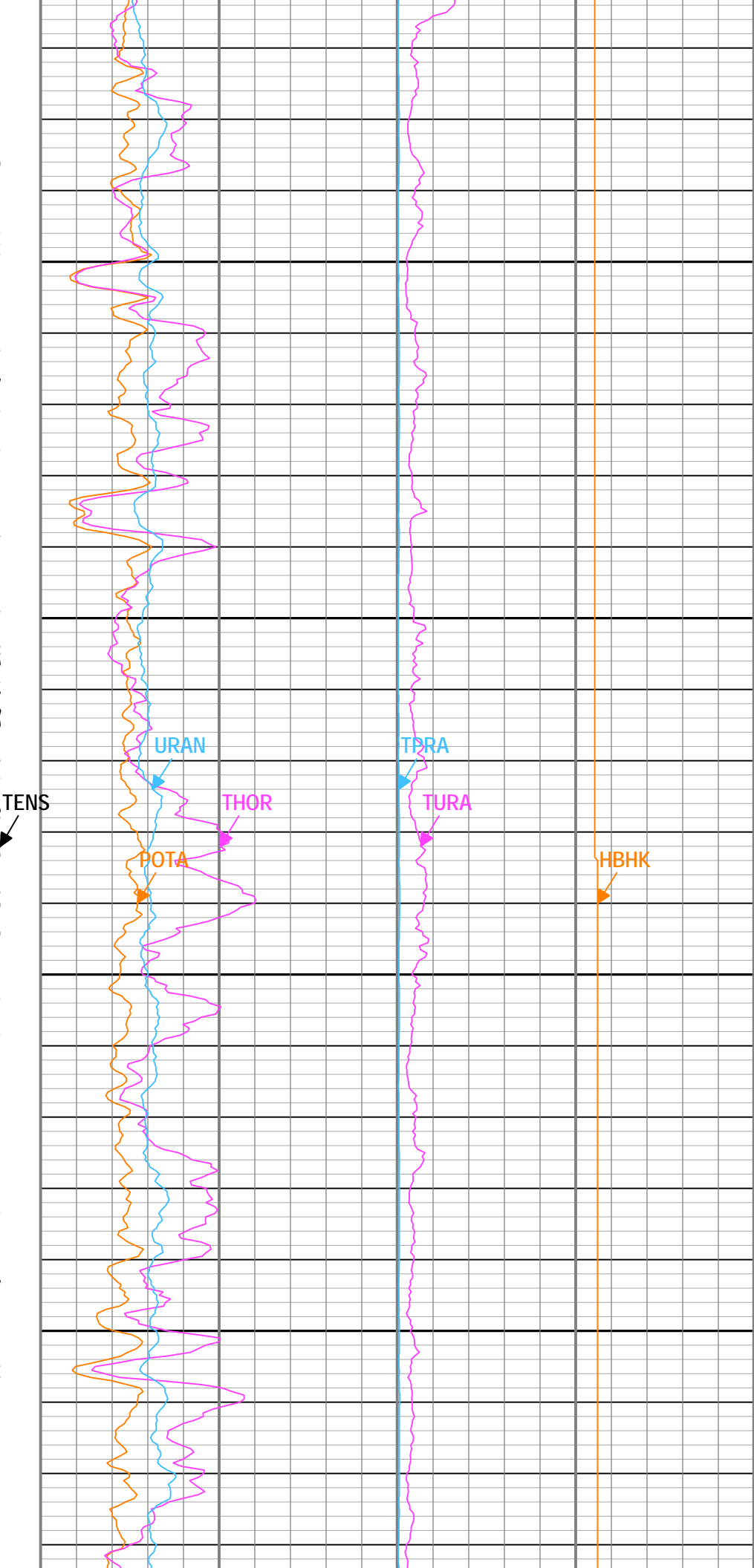
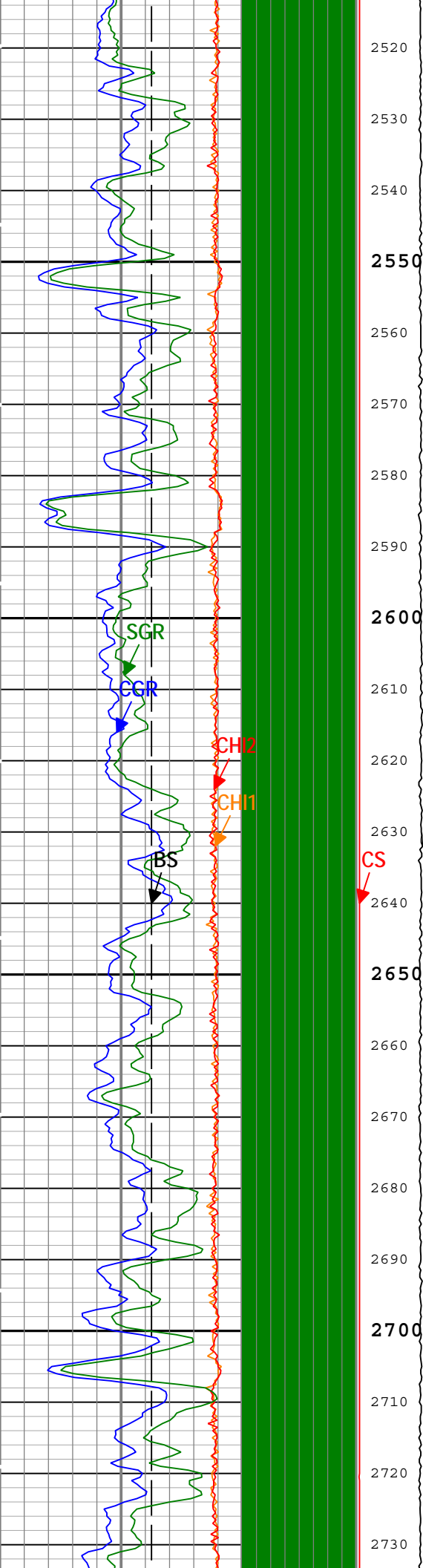


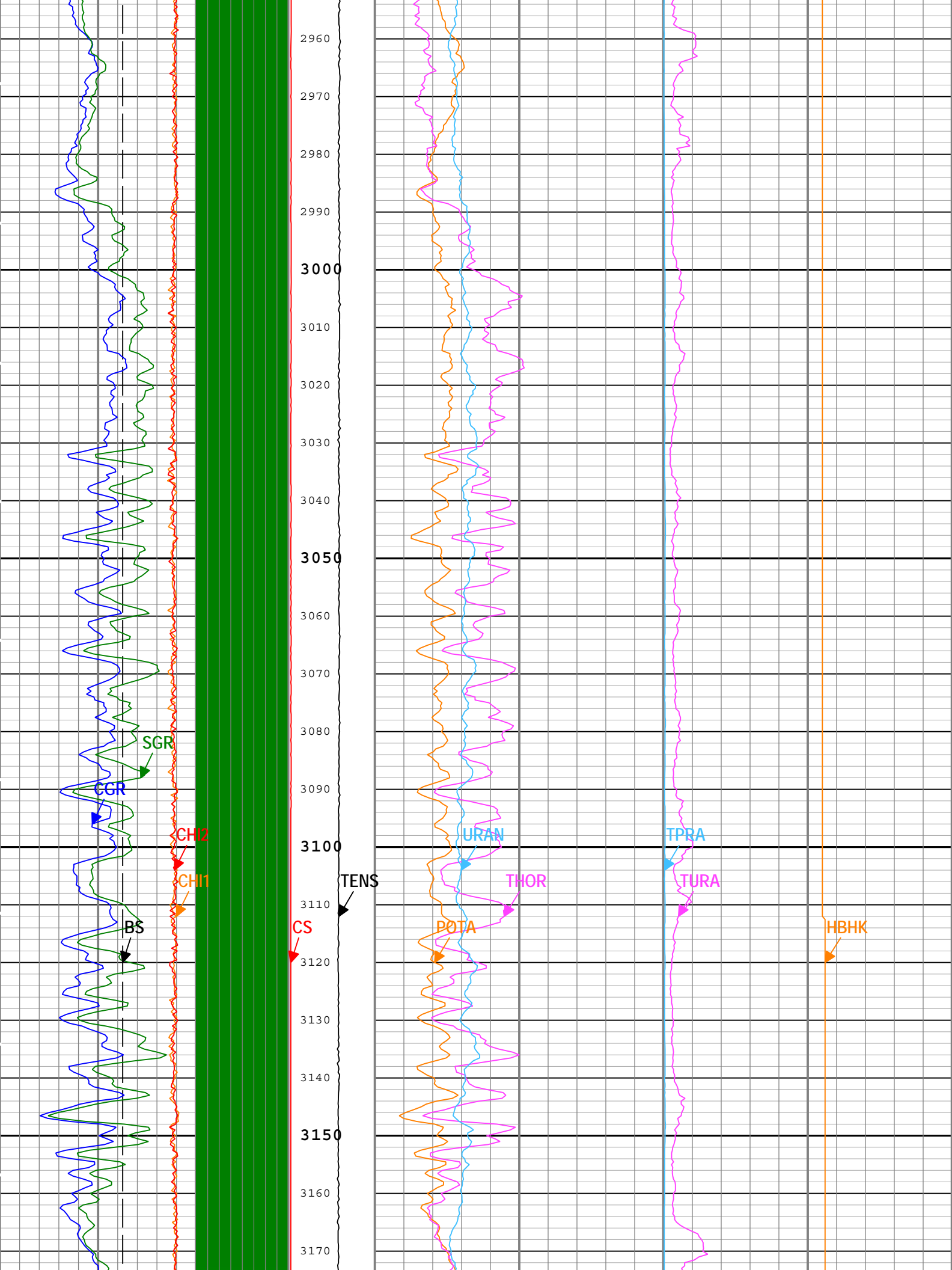


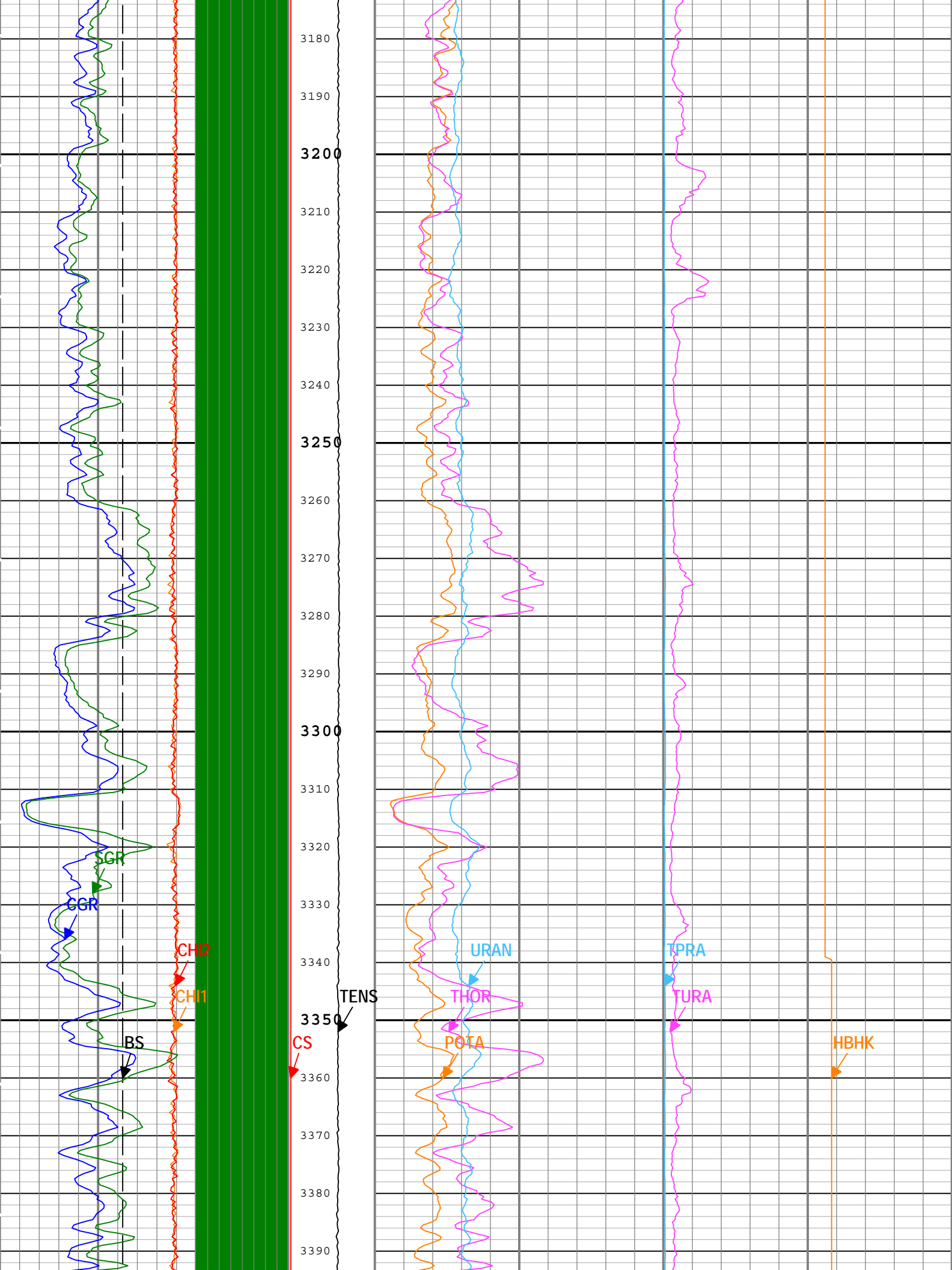


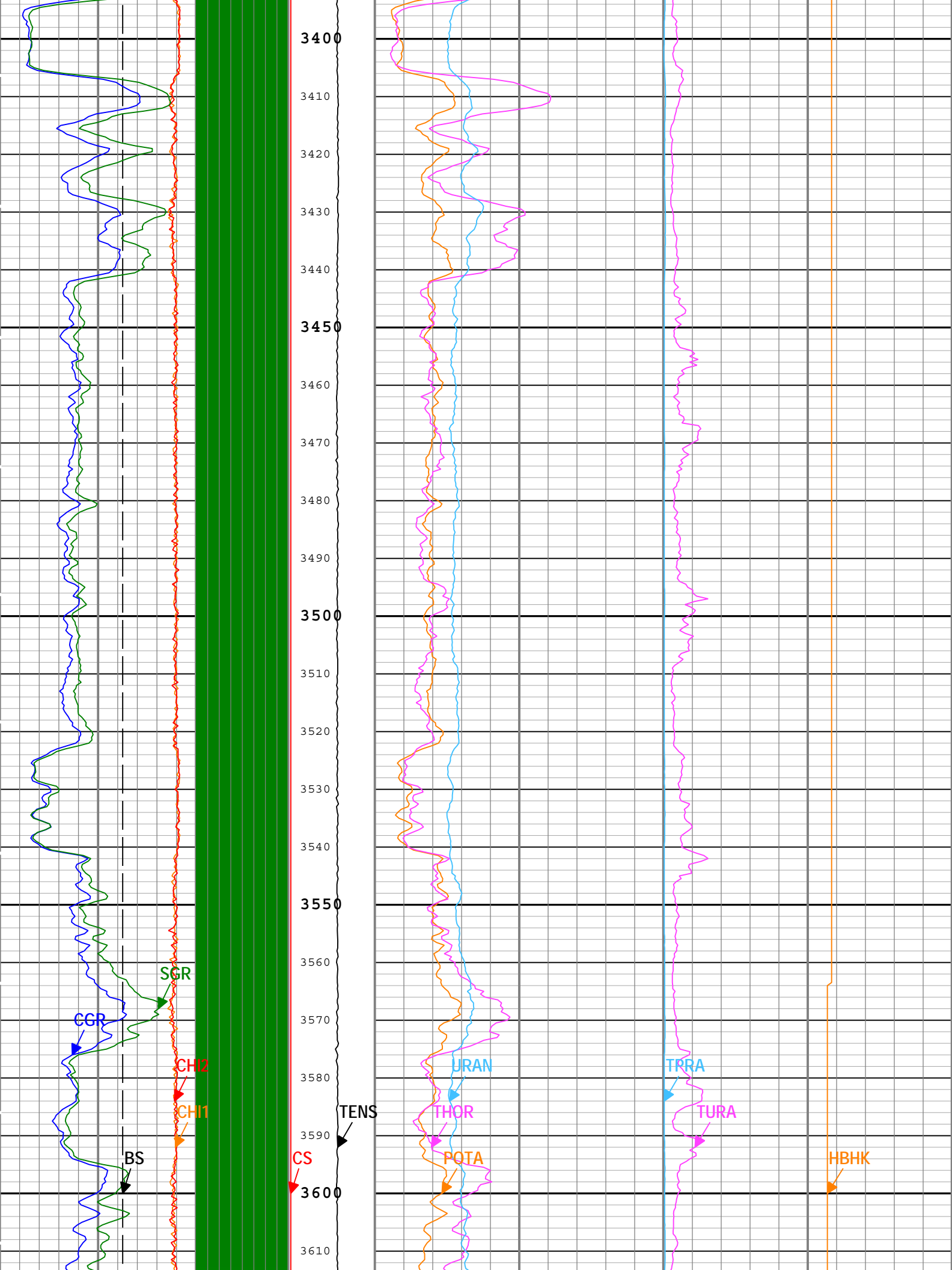


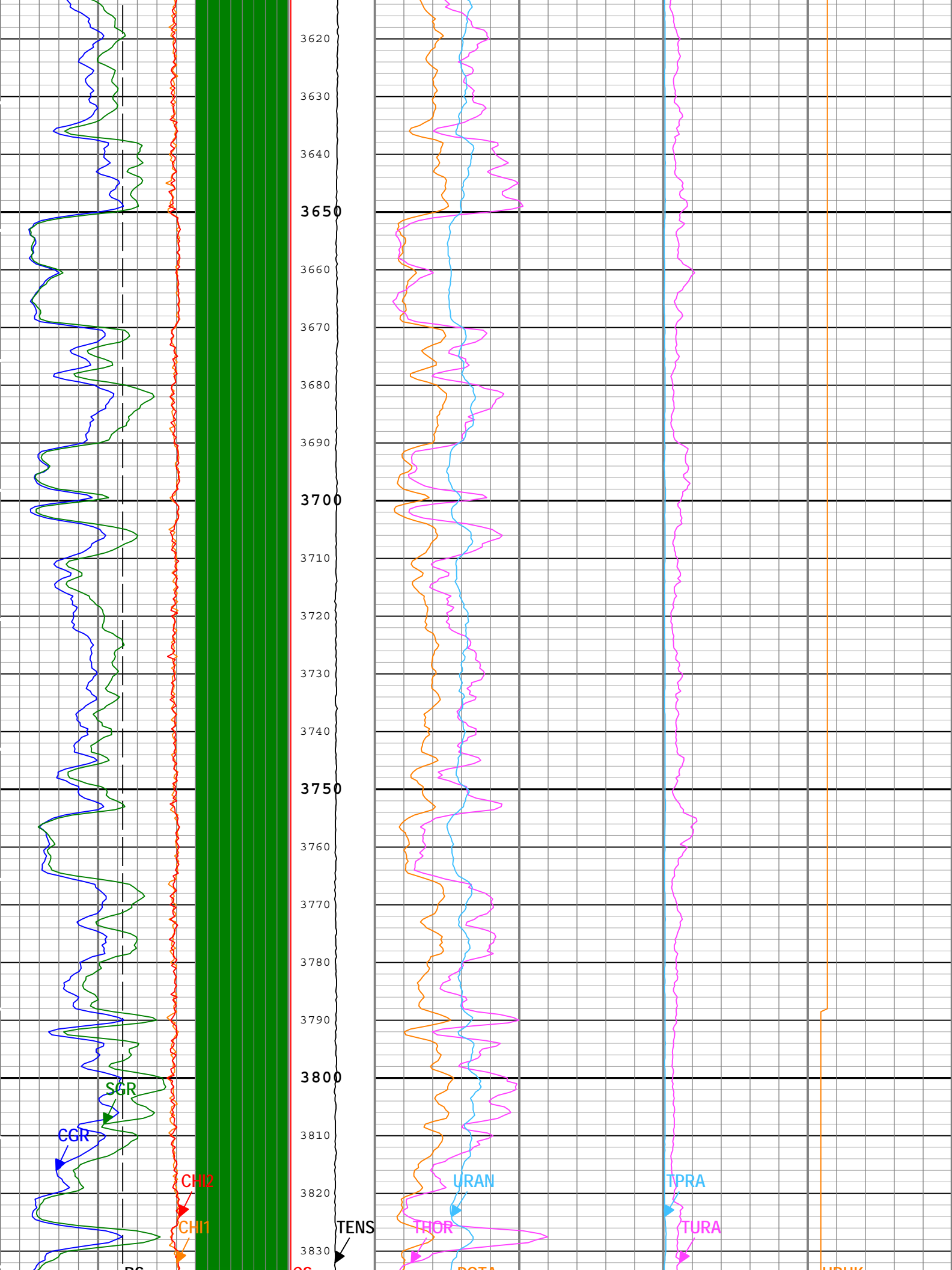


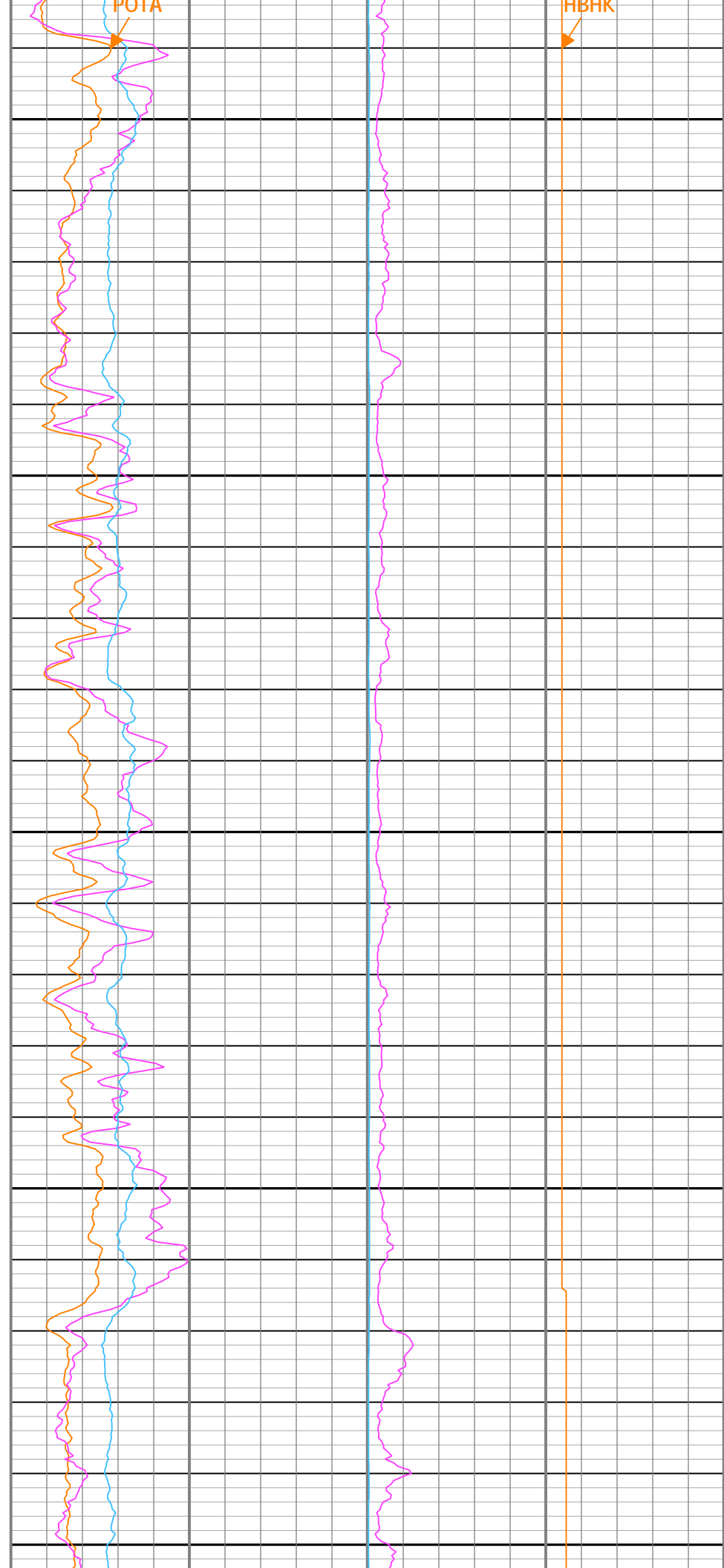
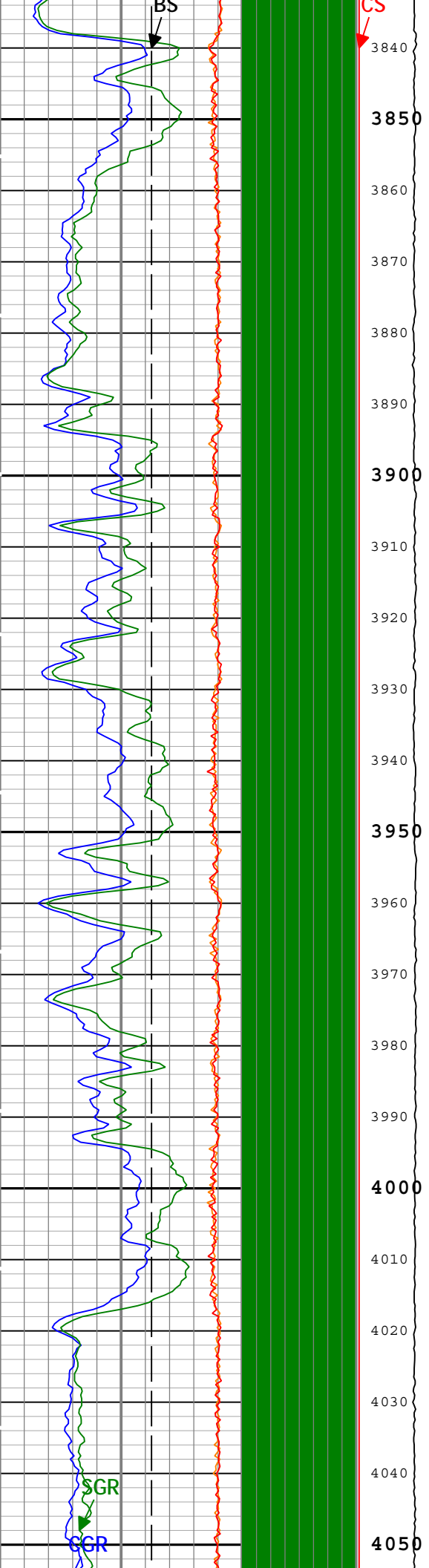


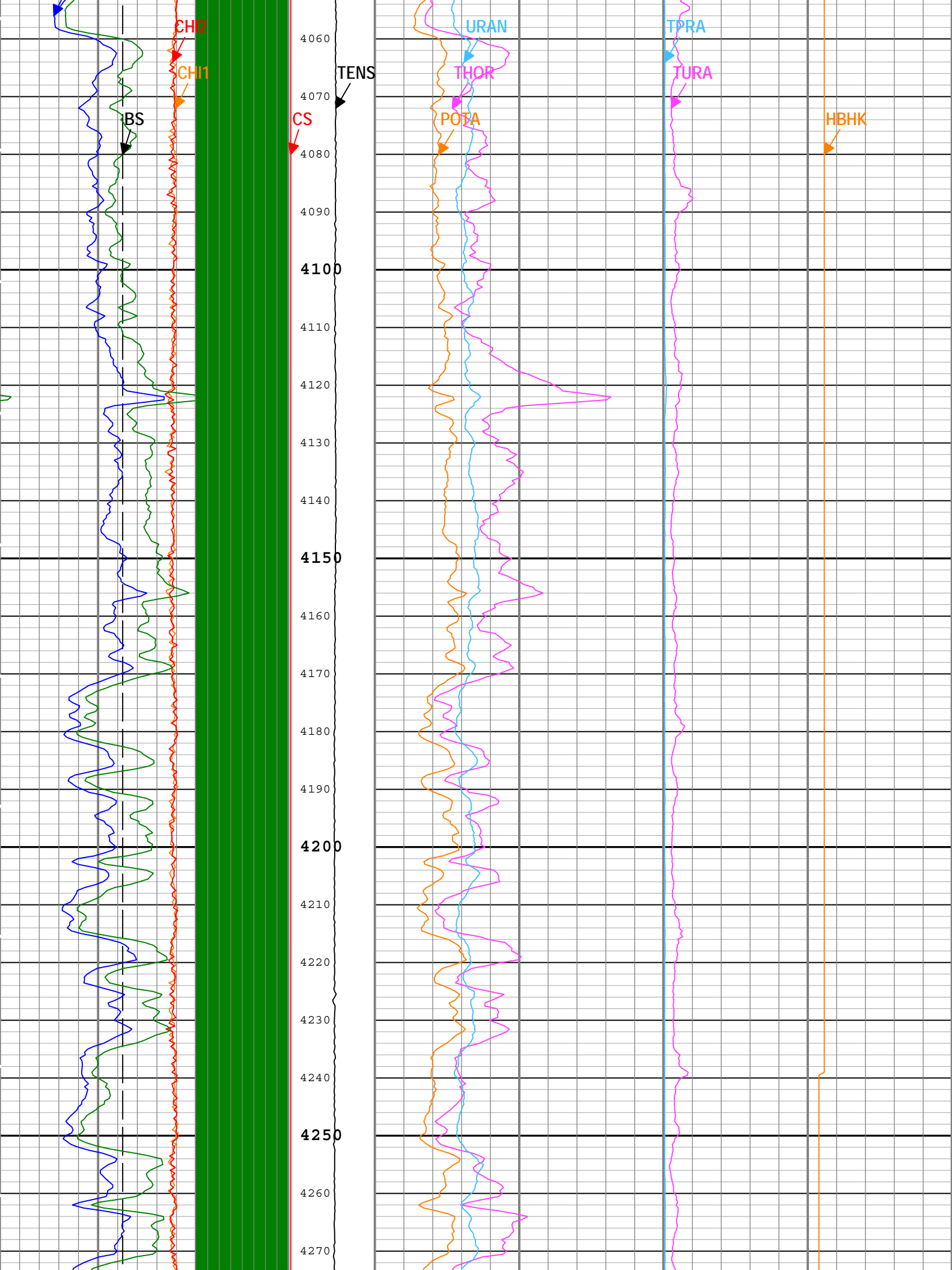


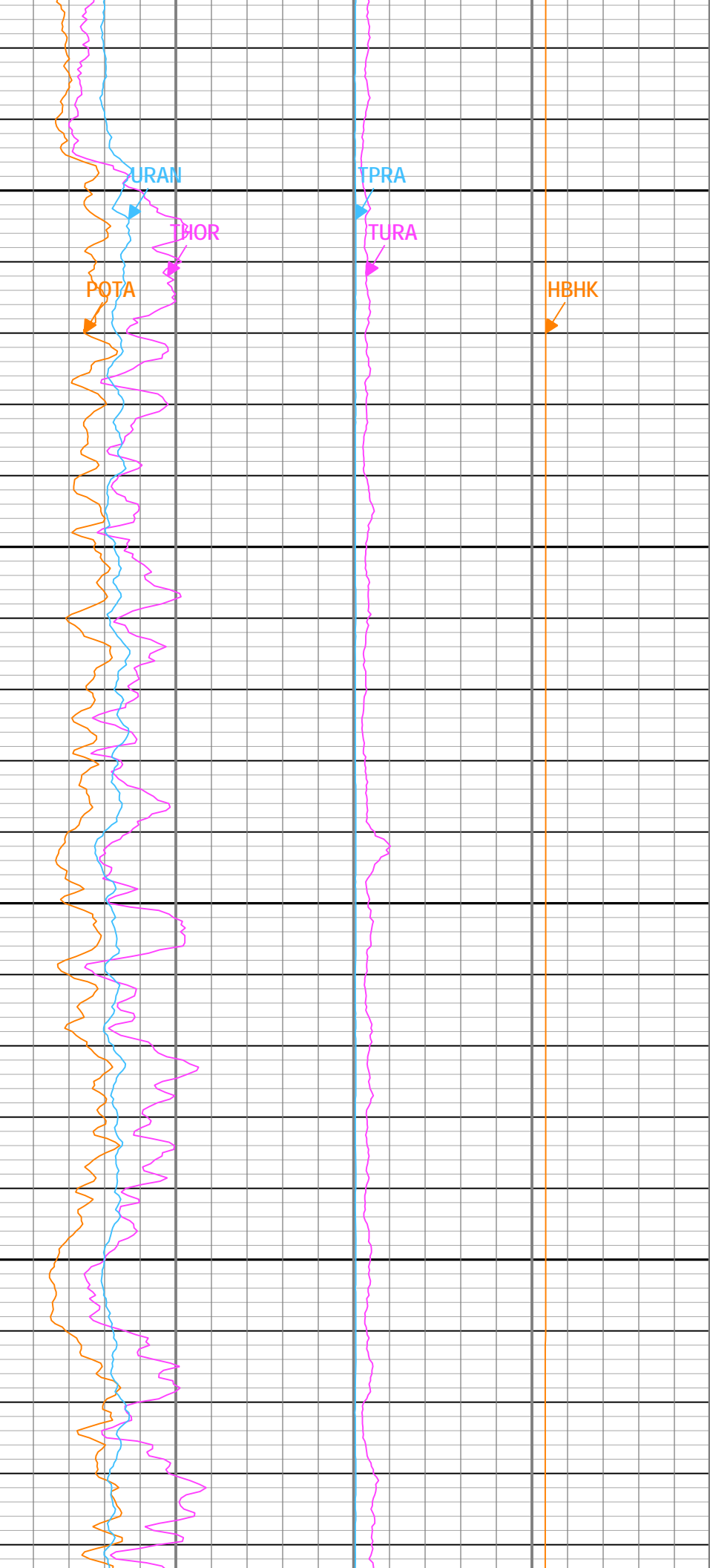
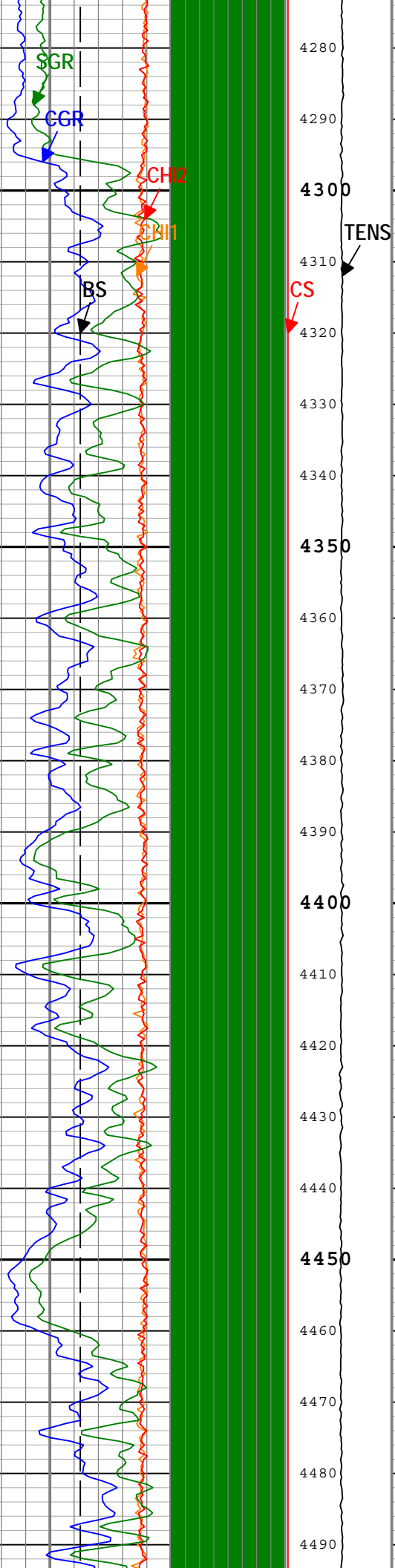


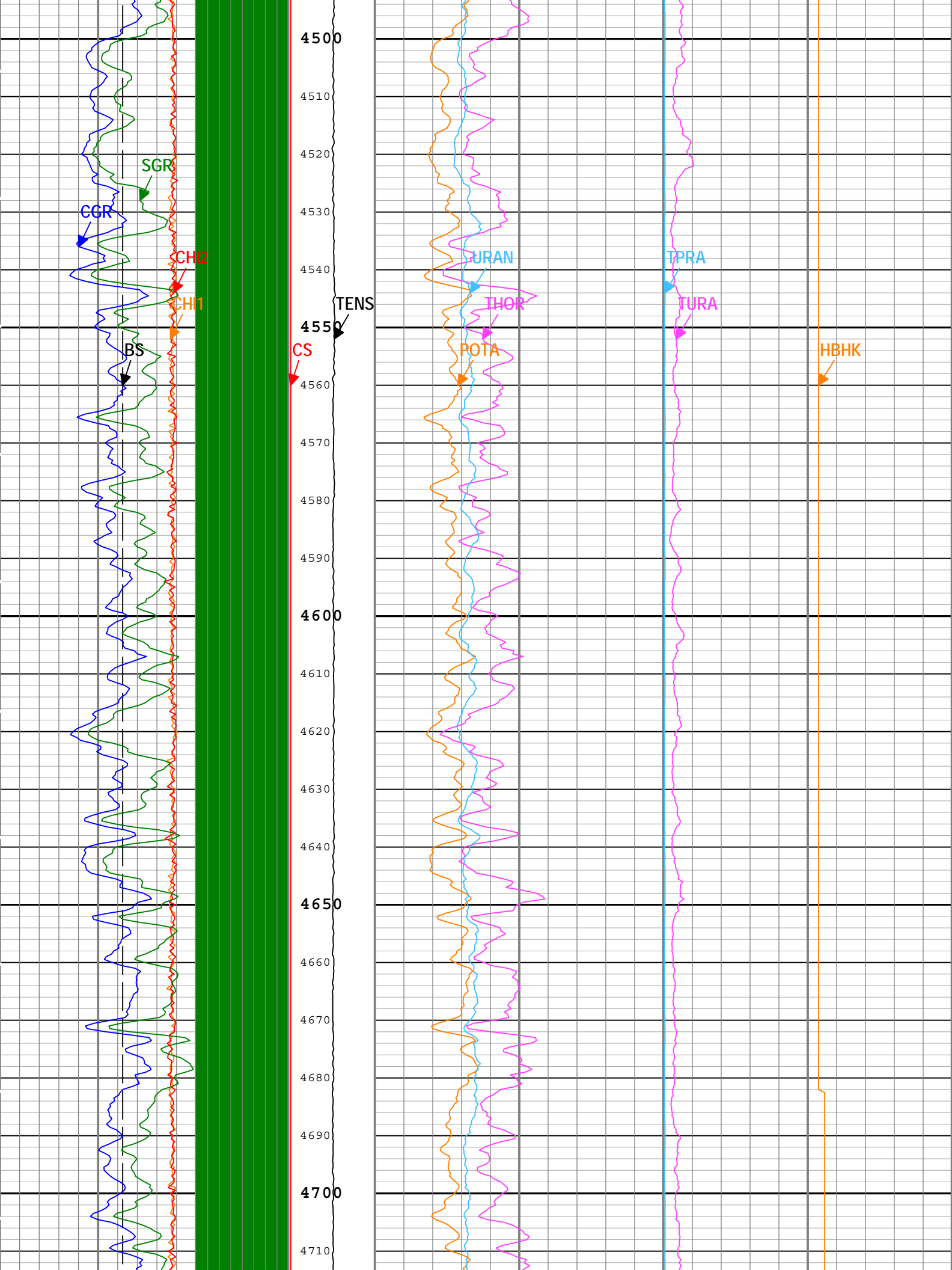


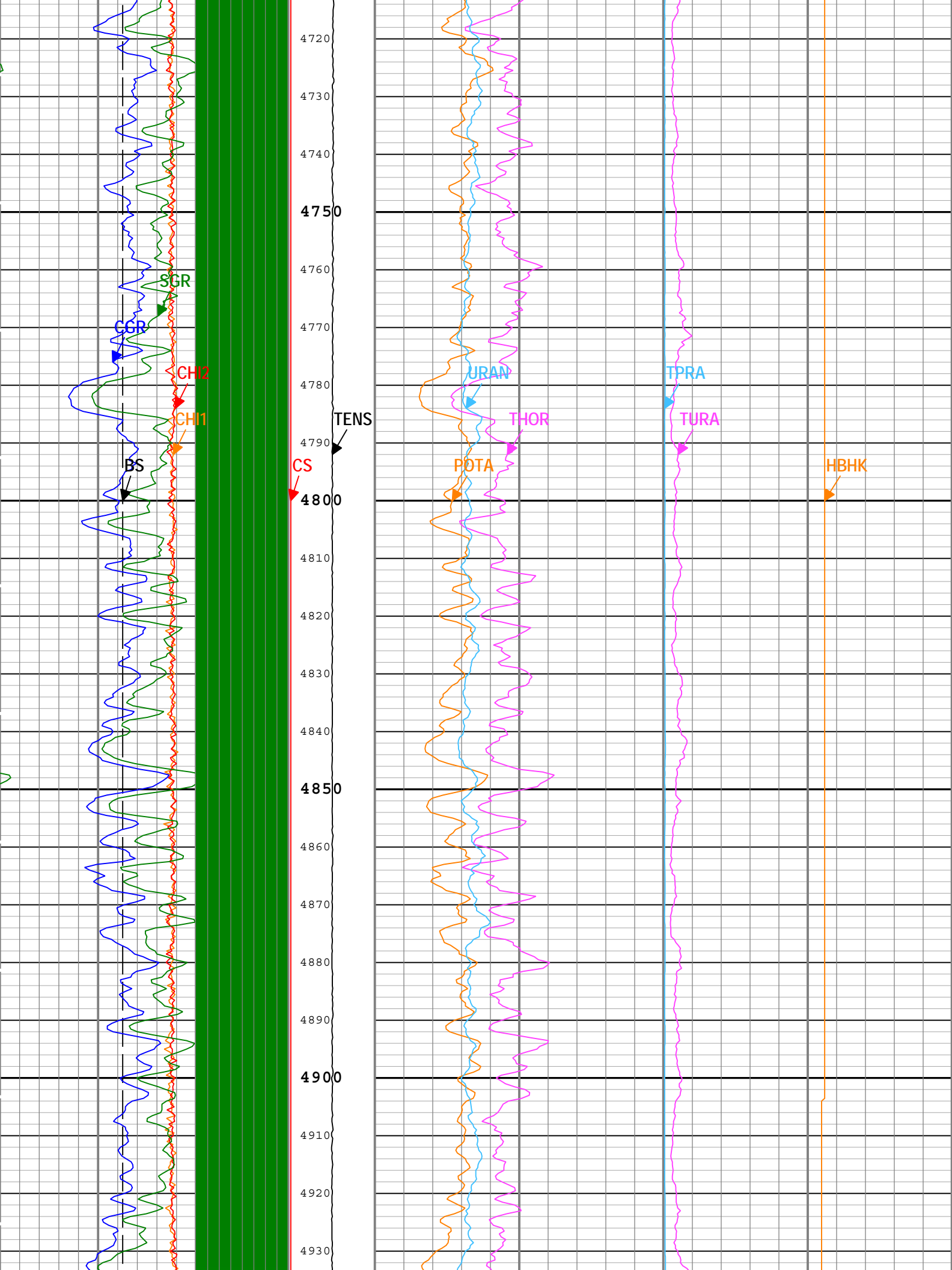


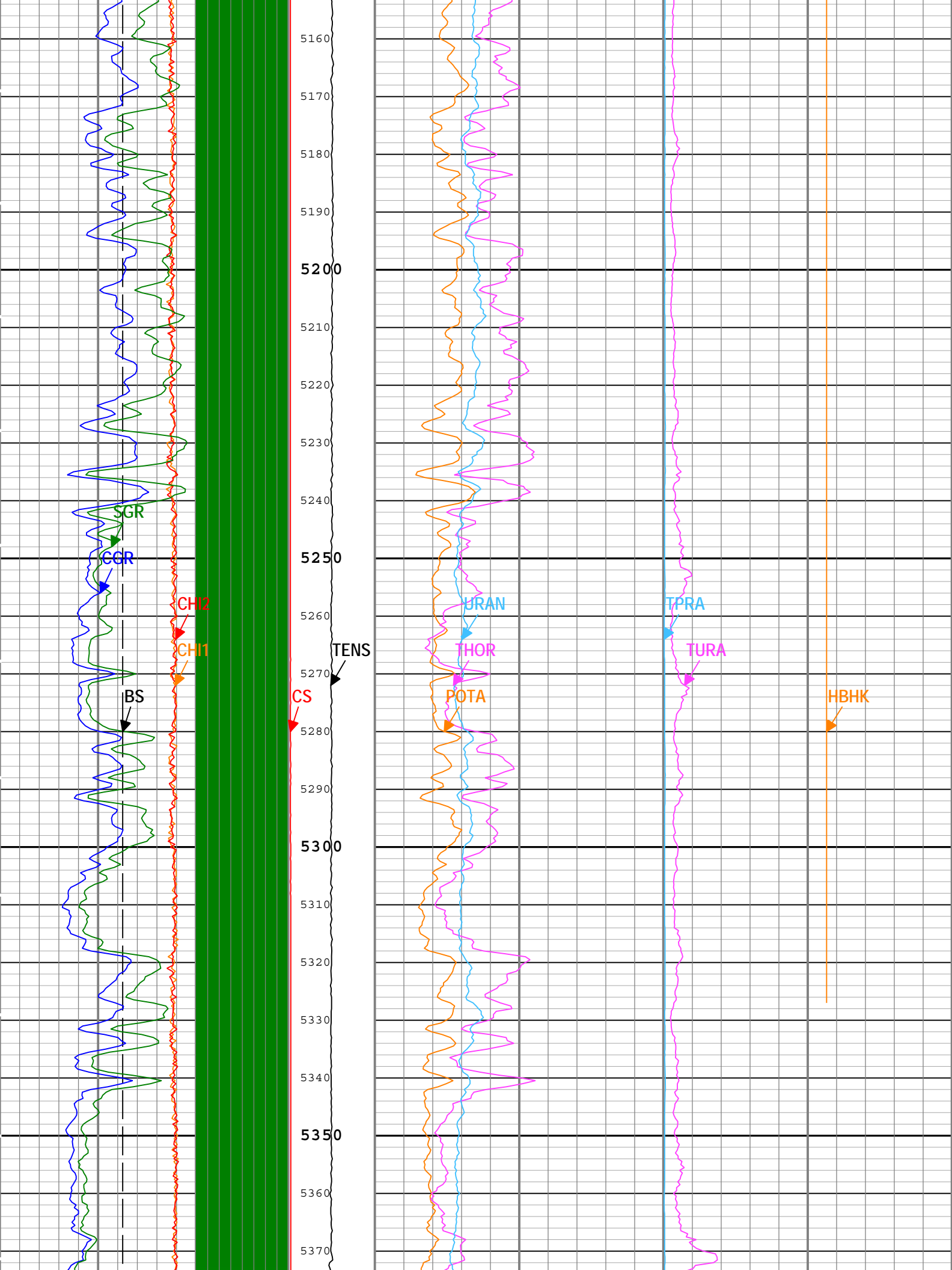


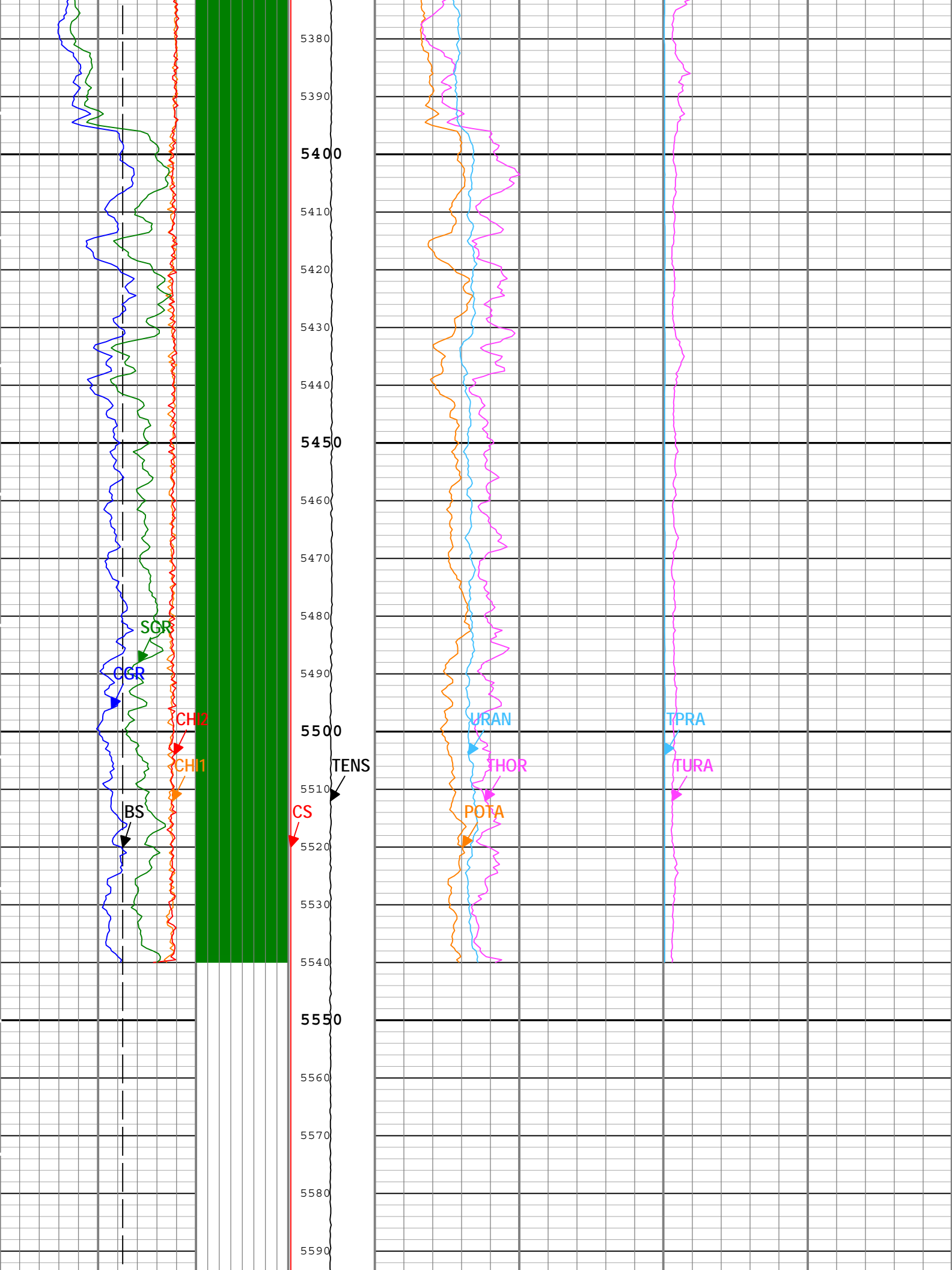


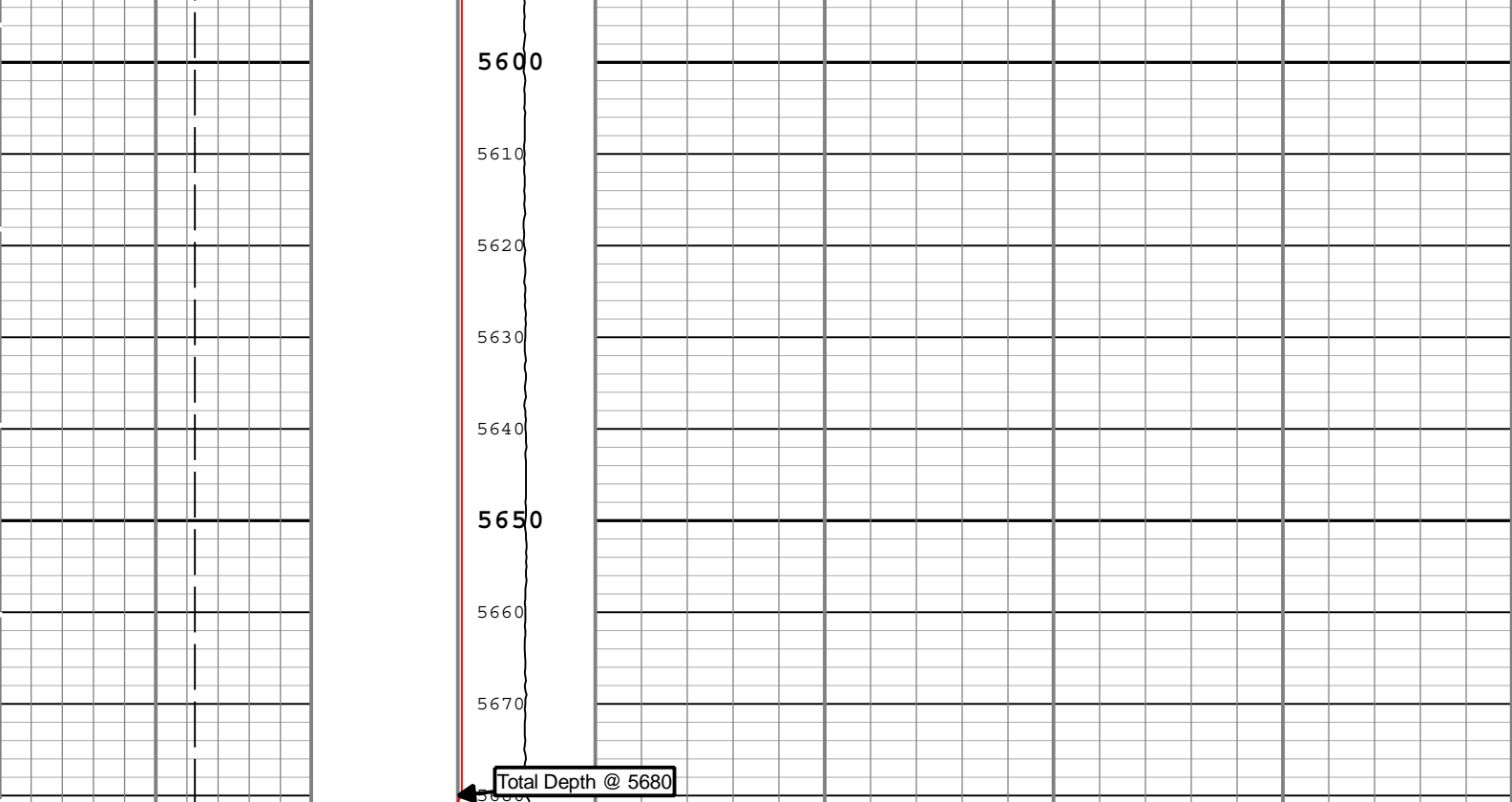












Bit Size (BS) 6 in 16	Log Quality Control Gamma Ray Status (LQC_GR) HNGS-BA 1 8	Cable Speed (CS) 0 50000 ft/h	Potassium Concentration (POTA) HNGS-BA 0 % 10	Borehole Potassium Concentration (HBHK) HNGS-BA -5 % 5
Detector 1 Chi-Squared (CHI1) HNGS-BA 10 0		Cable Tension (TENS) 10000 0 lbf	Thorium Concentration (THOR) HNGS-BA 0 ppm 30	Thorium/Uranium Ratio (TURA) HNGS-BA 0.01 100
Detector 2 Chi-Squared (CHI2) HNGS-BA 10 0			Uranium Concentration (URAN) HNGS-BA -10 ppm 30	Thorium/Potassium Ratio (TPRA) HNGS-BA 0.1 1000
Gamma Ray Contribution from Thorium and Potassium (CGR) HNGS-BA 0 gAPI 150				
Spectroscopy Gamma Ray (SGR) HNGS-BA 0 gAPI 150				

Log Quality Control Gamma Ray Status (LQC_GR) HNGS-BA

1 - CartHwStatus - Cartridge Hardware Status :	Cartridge Hardware: Normal	Cartridge Hardware: Warning
	Cartridge Hardware: Error	
2 - CartTempStatus - Cartridge Temperature Status :	Cartridge Temperature < 150 °C	Cartridge Temperature >= 175 °C
	150 °C <= Cartridge Temperature < 175 °C	
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	Detector 1 Temperature >= 80 °C	
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	Detector 1 Control Loop: Error	
6 - Det2CtrlLoopStatus - Detector 2 Control Loop Status :	Detector 2 Control Loop: Normal	Detector 2 Control Loop: Warning
	Detector 2 Control Loop: Error	
7 - Det1ChiSqrStatus - Detector 1 Chi Squared Status :	Detector 1 Chi Squared <= 3.0	Detector 1 Chi Squared > 3.0

TIME_1900 - Time Marked every 60.00 (s)

Description: HNGS Basic Format: Log (Import (2) of HNGS Basic) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 12-Sep-2014 00:06:03

Channel Processing Parameters

Parameter	Description	Tool	Value	Unit
BARI	Barite Mud Presence Flag	Borehole	Yes	
BHK	Drilling Fluid Potassium Concentration	Borehole	0	%
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BS	Bit Size	WLSESSION	Depth Zoned	in
CALI_SHIFT	CALI Supplementary Offset	HDRS-H	1.51	in
CBLO	Casing Bottom (Logger)	WLSESSION	1296	ft
DBCC	Barite Constant Correction Flag	HNGS-BA	None	
DFD	Drilling Fluid Density	Borehole	9	lbm/gal
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	CALI	
HCRB	Apply Borehole Potassium Correction	HNGS-BA	None	
HEMA	Hematite Presence Flag	Borehole	No	
SGRC	Standard Gamma Ray Correction Flag	HNGS-BA	Yes	

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	17.5	1195	1296
BS	12.25	1296	5680

All depth are actual.

Tool Control Parameters

Parameter	Description	Tool	Value	Unit
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	Time Zoned	ft/h

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
MAX_LOG_SPEED	1510	11-Sep-2014 18:55:18	11-Sep-2014 19:26:20	5681.24	5073.22
MAX_LOG_SPEED	1424	11-Sep-2014 19:26:20	11-Sep-2014 19:33:33	5073.22	4912.83
MAX_LOG_SPEED	1497	11-Sep-2014 19:33:33	11-Sep-2014 20:15:39	4912.83	3974.29
MAX_LOG_SPEED	1607	11-Sep-2014 20:15:39	11-Sep-2014 20:16:41	3974.29	3951.4
MAX_LOG_SPEED	1482	11-Sep-2014 20:16:41	11-Sep-2014 20:19:46	3951.4	3882.42
MAX_LOG_SPEED	1557	11-Sep-2014 20:19:46	11-Sep-2014 20:29:01	3882.42	3674.98
MAX_LOG_SPEED	1477	11-Sep-2014 20:29:01	11-Sep-2014 20:33:09	3674.98	3582.47
MAX_LOG_SPEED	1555	11-Sep-2014 20:33:09	11-Sep-2014 20:40:21	3582.47	3420.78
MAX_LOG_SPEED	1453	11-Sep-2014 20:40:21	11-Sep-2014 20:47:33	3420.78	3257.57
MAX_LOG_SPEED	1535	11-Sep-2014 20:47:33	11-Sep-2014 21:04:58	3257.57	2844.12
MAX_LOG_SPEED	1628	11-Sep-2014 21:04:58	11-Sep-2014 21:06:00	2844.12	2818.63
MAX_LOG_SPEED	1532	11-Sep-2014 21:06:00	11-Sep-2014 21:09:05	2818.63	2741.13
MAX_LOG_SPEED	1628	11-Sep-2014 21:09:05	11-Sep-2014 21:25:29	2741.13	2333.69
MAX_LOG_SPEED	1732	11-Sep-2014 21:25:29	11-Sep-2014 21:28:34	2333.69	2256.68
MAX_LOG_SPEED	1635	11-Sep-2014 21:28:34	11-Sep-2014 21:31:39	2256.68	2179.52
MAX_LOG_SPEED	1724	11-Sep-2014 21:31:39	11-Sep-2014 22:16:41	2179.52	1389.73
MAX_LOG_SPEED	1582	11-Sep-2014 22:16:41	11-Sep-2014 22:26:12	1389.73	1028.67

Calibration Report

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

Primary Equipment :

HNGS Sonde Element HNGS-BA 392

Auxiliary Equipment :

Hostile Natural Gamma Ray Cartridge HNGC-B 657

HNGS Housing Element HEH-K 1007

7992

Housing for the HNGC HNGH-A 4144

HNGS Background and Na22 Set Point Determination - Detector 1 Check

Master (EEPROM): 10:24:22 12-Aug-2014 Before (Measured): 20:36:21 10-Sep-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Na 511 Peak Location		Master	40.000	37.500	38.608	42.500	
		Before	40.000	37.500	38.549	42.500	
		Before-Master	----	----	-0.059	----	
Na 511 Peak Resolution	%	Master	15.500	12.000	14.753	19.000	
		Before	15.500	12.000	13.861	19.000	
		Before-Master	----	----	-0.892	----	
High Voltage DAC Value	V	Master			896.211		
		Before	1150.000	850.000	877.778	1600.000	
		Before-Master	----	----	-18.433	----	
Na 1785 Peak Location		Master	142.650	135.000	139.188	150.300	
		Before	142.650	135.000	138.999	150.300	
		Before-Master	----	----	-0.189	----	
Na 1785 Peak Resolution	%	Master	8.500	7.000	9.981	11.000	
		Before	8.500	7.000	9.219	11.000	
		Before-Master	----	----	-0.762	----	
Temperature - 0	degF	Master	----	----	----	----	
		Before	59.900	-20.002	54.441	140.000	
		Before-Master	----	----	----	----	
Na Count Rate	CPS	Master	45.000	10.000	33.214	100.000	
		Before	45.000	10.000	34.867	100.000	
		Before-Master	----	----	1.653	----	

HNGS Background and Na22 Set Point Determination - Detector 2 Check

Master (EEPROM): 10:24:22 12-Aug-2014 Before (Measured): 20:36:21 10-Sep-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Na 511 Peak Location		Master	40.000	37.500	39.685	42.500	
		Before	40.000	37.500	39.728	42.500	
		Before-Master	----	----	0.043	----	
Na 511 Peak Resolution	%	Master	15.500	12.000	14.789	19.000	
		Before	15.500	12.000	14.729	19.000	
		Before-Master	----	----	-0.060	----	
High Voltage DAC Value	V	Master			966.377		
		Before	1150.000	850.000	947.360	1600.000	
		Before-Master	----	----	-19.017	----	
Na 1785 Peak Location		Master	142.650	135.000	142.051	150.300	
		Before	142.650	135.000	141.894	150.300	
		Before-Master	----	----	-0.157	----	
Na 1785 Peak Resolution	%	Master	8.500	7.000	8.072	11.000	
		Before	8.500	7.000	7.996	11.000	
		Before-Master	----	----	-0.076	----	
Temperature - 0	degF	Master	----	----	----	----	
		Before	59.900	-20.002	53.341	140.000	
		Before-Master	----	----	----	----	
Na Count Rate	CPS	Master	45.000	10.000	33.451	100.000	
		Before	45.000	10.000	34.919	100.000	
		Before-Master	----	----	1.468	----	

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

Master (EEPROM): 10:24:22 12-Aug-2014 Before (Measured): 20:36:21 10-Sep-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
-------------	------	-------	---------	-----------	--------	------------	--

Coincidence Count Rate Ratio		Master Before Before-Master	1.000 ----- -----	0.950 ----- -----	0.990 0.993 0.003	1.050 ----- -----	
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HNCS Background and Na22 Set Point Determination - Detector 1 Calibration

Master (EEPROM):		10:24:22 12-Aug-2014		Before (Measured):		20:36:21 10-Sep-2014		
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit		
Th Peak Location		Master	209.630	201.000	208.061	218.250		
		Before	-----	-----	-----	-----		
		Before-Master	-----	-----	-----	-----		
Th Peak Resolution	%	Master	7.000	5.000	7.609	9.000		
		Before	-----	-----	-----	-----		
		Before-Master	-----	-----	-----	-----		
Background Count Rate	CPS	Master	142.500	10.000	131.714	265.000		
		Before			265.065			
		Before-Master	-----	-----	133.351	-----		
Gain Ratio		Master	1.000	0.940	1.025	1.060		
		Before	-----	-----	-----	-----		
		Before-Master	-----	-----	-----	-----		

HNCS Background and Na22 Set Point Determination - Detector 2 Calibration

Master (EEPROM):		10:24:22 12-Aug-2014		Before (Measured):		20:36:21 10-Sep-2014		
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit		
Th Peak Location		Master	209.630	201.000	210.810	218.250		
		Before	-----	-----	-----	-----		
		Before-Master	-----	-----	-----	-----		
Th Peak Resolution	%	Master	7.000	5.000	7.093	9.000		
		Before	-----	-----	-----	-----		
		Before-Master	-----	-----	-----	-----		
Background Count Rate	CPS	Master	142.500	10.000	134.754	265.000		
		Before			264.015			
		Before-Master	-----	-----	129.261	-----		
Gain Ratio		Master	1.000	0.940	1.011	1.060		
		Before	-----	-----	-----	-----		
		Before-Master	-----	-----	-----	-----		

HNCS Background and Na22 Set Point Determination - Detector 1 Calibration

Master (EEPROM):		10:24:22 12-Aug-2014		Before (Measured):		20:36:21 10-Sep-2014		
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit		
Na 511 Peak Set Point		Master	40.000	38.000	40.000	43.500		
		Before	-----	-----	-----	-----		
		Before-Master	-----	-----	-----	-----		

HNCS Background and Na22 Set Point Determination - Detector 2 Calibration

Master (EEPROM):		10:24:22 12-Aug-2014		Before (Measured):		20:36:21 10-Sep-2014		
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit		
Na 511 Peak Set Point		Master	40.000	38.000	41.000	43.500		
		Before	-----	-----	-----	-----		
		Before-Master	-----	-----	-----	-----		

Company: Southwestern Energy Production Company

Schlumberger

Well: Diamond T Sheep 7-92 1-26

Field: Sand Wash Basin/Niobrara

County: Moffat

State: Colorado

HNGS

Spectral Gamma Ray