Schlumberger

Company: Conoco Phillips Company

Well: Tebo 33 1P

Field: Wildcat

County: Arapahoe State: Colorado

Sonic Scanner

P&S

County: Arapahoe
Field: Wildcat
Location: SHL: SWSW 900' FSL & 310' FWL
Well: Tebo 33 1P
Company: Conoco Phillips Company

Location:			
SHL: SWSW 900' FSL & 310' FWL	Elev.	K.B.	5863.50 ft
Sec: 33, T: 4S, R: 64W		G.L.	5839.50 ft
Lat: 39.654664, Long: -104.564814		D.F.	5862.50 ft

Permanent Datum:	Ground Level	Elev.:	5839.50 f
Log Measured From:	Kelly Bushing	24.00 ft	above Perm.Datum
Drilling Measured From:	Kelly Bushing		

API Serial No.	Section:	Township:	Range:
05-005-07205-00	33	4S	64W

Logging Date			16-Jun-2013			
Run Number			Run 1			
Depth Driller			8130.00 ft			
Schlumberger Depth			8140.00 ft			
Bottom Log Interval			8140.00 ft			
Top Log Interval			2188.00 ft			
Casing Driller Size @ Depth			9.625 in @ 2188.00 ft			
Casing Schlumberger			2188 ft			
Bit Size			8.75 in			
Type Fluid In Hole			Diesel			
MUD	Density	Viscosity	9.4 lbm/gal	48 s		
	Fluid Loss	PH	6 cm3	9		
	Source of Sample		N/A			
RM @ Meas Temp			N/A			
RMF @ Meas Temp			N/A			
RMC @ Meas Temp			N/A			
Source RMF		RMC	N/A	N/A		
RM @ BHT		RMF @ BHT	N/A	N/A		
Max Recorded Temperatures			220 degF			
Circulation Stopped		Time	15-Jun-2013	22:30:00		
Logger on Bottom		Time	16-Jun-2013	08:00:11		
Unit Number		Location:	2135	Fort Morgan, CO		
Recorded By			Max Pace			
Witnessed By			Clint Goinz			

Disclaimer

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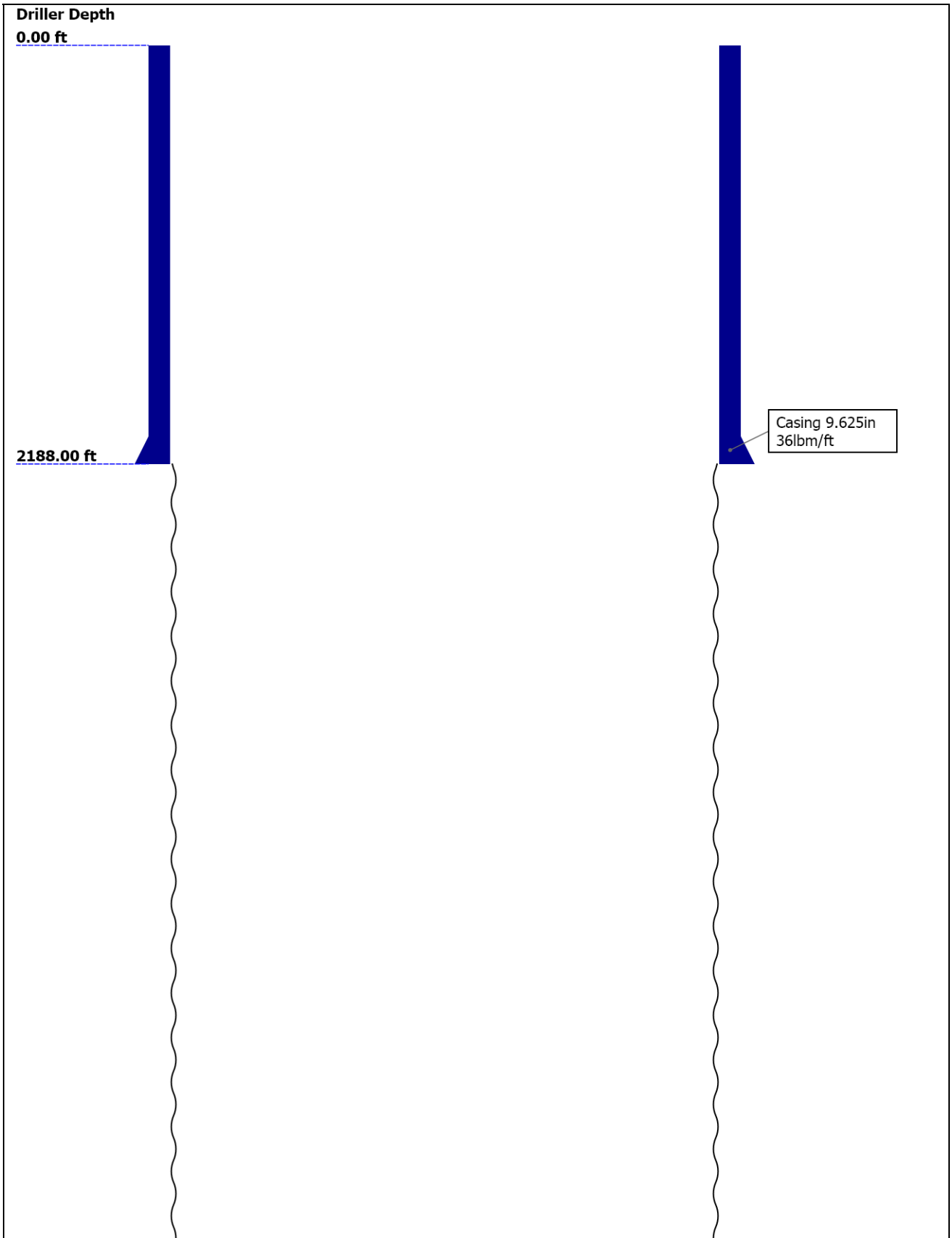
Well Sketch



Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	8.75					
Top Driller (ft)	2188					
Top Logger (ft)	2188					
Bottom Driller (ft)	8130					
Bottom Logger (ft)	8140					
Casing						
Size (in)	9.625					
Weight (lbm/ft)	36					
Inner Diameter (in)	8.914					
Top Driller (ft)	0					
Top Logger (ft)	0					
Bottom Driller (ft)	2188					
Bottom Logger (ft)	2188					

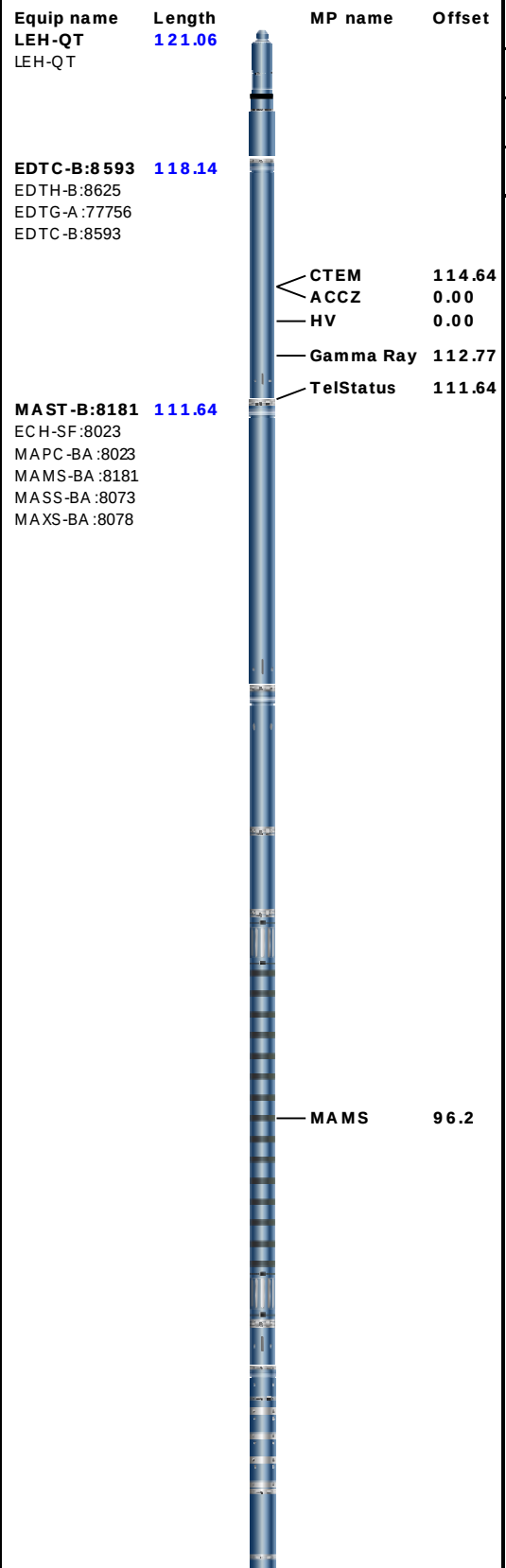
Borehole Fluids

Parameter(unit)	Run 1					
Fluid Type	Oil					
Fluid Name	Diesel					
Max Recorded Temperatures (degF)	220					
Source of Sample	Active Tank					
Salinity (ppm)	0					
Density (lbm/gal)	9.4					
Funnel Viscosity (s)	48					
Fluid Loss (cm3)	6					
PH	9					
Date/Time Circulation Stopped	15-Jun-2013 22:30:00					
Date Logger on Bottom	16-Jun-2013					
Time Logger on Bottom	08:00:11					
Source RMF	Calculated					
RMC	Calculated					
RM @ Meas Temp (ohm.m@degF)	N/A					
RMF @ Meas Temp (ohm.m@degF)	N/A					
RMC @ Meas Temp	N/A					

(ohm.m@degF)						
RM @ BHT (ohm.m@degF)	N/A					
RMF @ BHT (ohm.m@degF)	N/A					
RMC @ BHT (ohm.m@degF)	N/A					
Electricity Stability (V)						
Oil/Water						
Total Solid (%)						
High Gravity Solids (%)						

Remarks and Equipment Summary

Run 1: Toolstring



Run 1: Remarks

All Schlumberger depth control procedures followed.

IDW used as primary depth device

Z Chart used as secondary depth device.

Crew: Max Pace, Troy Ocana, Ian Derry

MAXS 70.36

PPC-B:8195 **70.36**
PPC-B:8195

PPC-B Calipers 69.21

AH-184[2] **63.84**

GPIT-F:770 **61.84**
GPIH-B
DHRU-F:799
GPIC-F:770

GPIT-F Inclinometer 60.42

GPIT 0.00

Weight **57.84**

AH-184[1] **53.34**

HNGS-BA:152 **51.34**
HEH-K:149
HNGS-BA:152

GR 48.35

HNGC-B:250 **43.15**
HNGH-A:87
HNGC-B:250

Tel Status 41.4

AH-107 **39.65**

HGNS-H:4810 **37.65**
HGNH:3912
NSR-F:5215
NPV-N
HACCZ-H:5955
HMCA-H
HGNS-H:4810

Temperature 37.62
GR 36.91
CNL Porosity 30.57
HMCA 28.24
HGNS 28.24
Accelerometer 0.00

HDRS-H:4826 **28.24**
ECH-MEB:4711
HRCC-H:5705
HRMS-H:4826
GSR-J:5240
GPV-Q
Short Spacing
HRGD-H:4791
Backscatter
Long Spacing:2810

HRCC 24.24
MCFL 18.81
Caliper 18.33
TLD Density 17.94

AIT-H:392 **16.00**
AHIS:392
AHRM:392

Power Supply 7.91
Induction 7.91
Temperature 7.91
SP 0.08

Lengths are in ft
Maximum Outer Diameter = 9.000 in
Line: Sensor Location, Value: Gating Offset
All measurements are relative to TOOL_ZERO

Depth Summary

Depth Control Parameters	Run 1		
Conveyance Type	Wireline		
Rig Type	Land		
Depth Measuring Device	**Run 1**		
Type	IDW-B		
Serial Number	6515A		
Calibration Date	23-SEP-2013		
Calibration Cable Type	7-46 PXS		
Wheel Correction 1	-7		
Wheel Correction 2	-5		
Tension Device	**Run 1**		
Type	CMTD-B/A		
Serial Number	1919		
Calibration Date	17-May-2013		
Calibrator Serial Number	78135A		
Calibration Points	10		
Calibration RMS	13		
Calibration Peak Error	24		
Logging Cable	**Run 1**		
Type	7-46NT-XS		
Serial Number	U711057		
Logging Cable Length (ft)	14000.00		

Run 1

Integration Summary

Output Channel(s)	Output Description	Input Parameter	Output Value	Unit

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Depth Shift	Include Parallel Data
Run 1	Main[5]:Up	Up	927.84 ft	8154.18 ft	16-Jun-2013 8:55:12 AM	16-Jun-2013 12:57:43 PM	1.00 ft	

All depths are referenced to toolstring zero

Log

Run 1: Main[5]:Up

Description: Format: Log (Blank 3 Track Depth) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 16-Jun-2013 18:02:12

TIME_1900 - Time Marked every 60.00 (s)

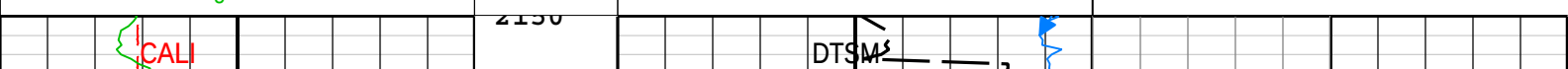
Caliper (CALI) HDRS-H
6 in 16

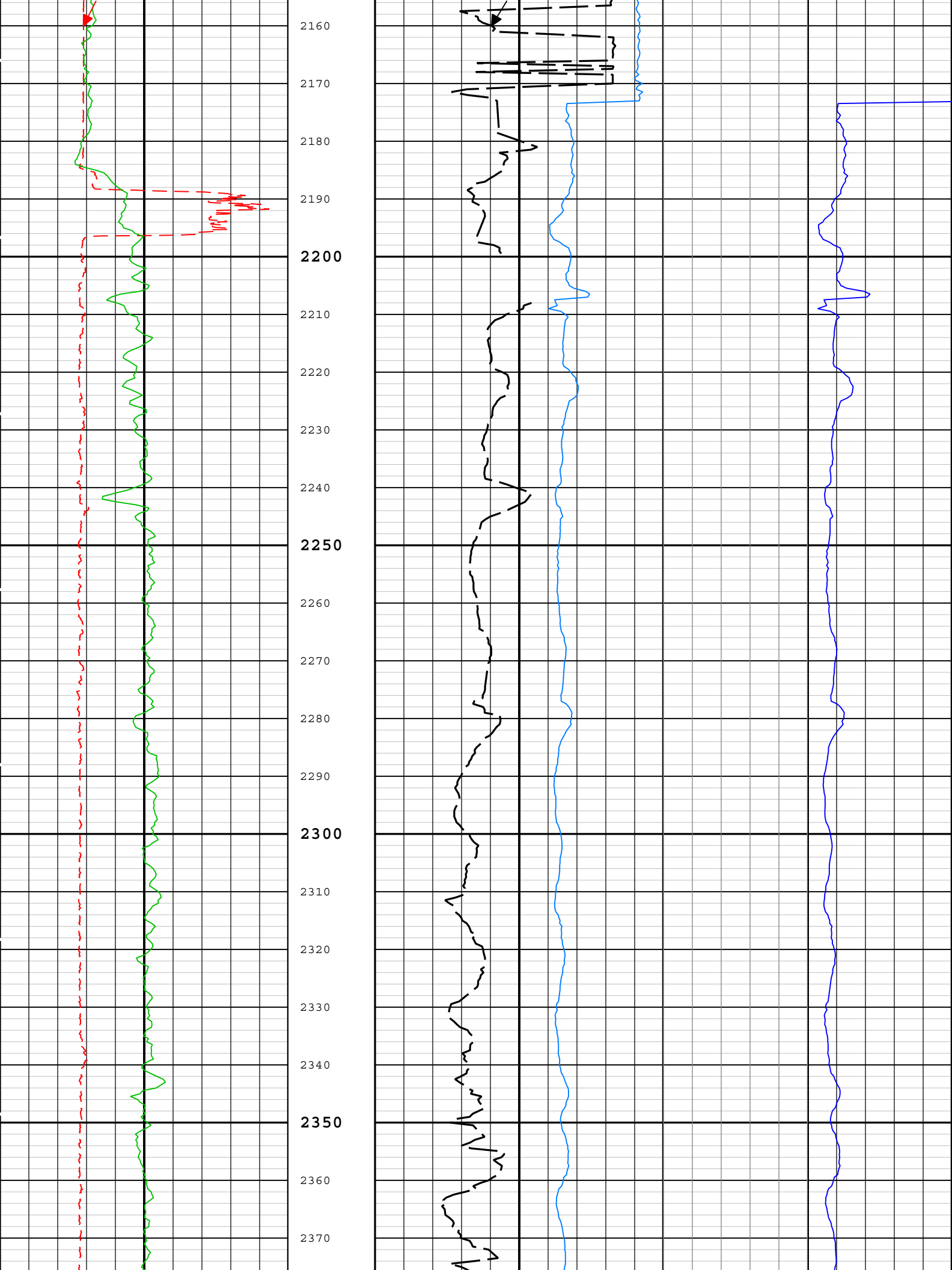
Spectroscopy Gamma Ray (SGR) HNGS-BA
0 gAPI 200

Delta-T Shear (DTSM) MAST-B
350 us/ft 50

Delta-T Compressional (DTCO) MAST-B
240 us/ft 40

Sonic Porosity (SPHI) MAST-B
0.6 ft3/ft3 0.1

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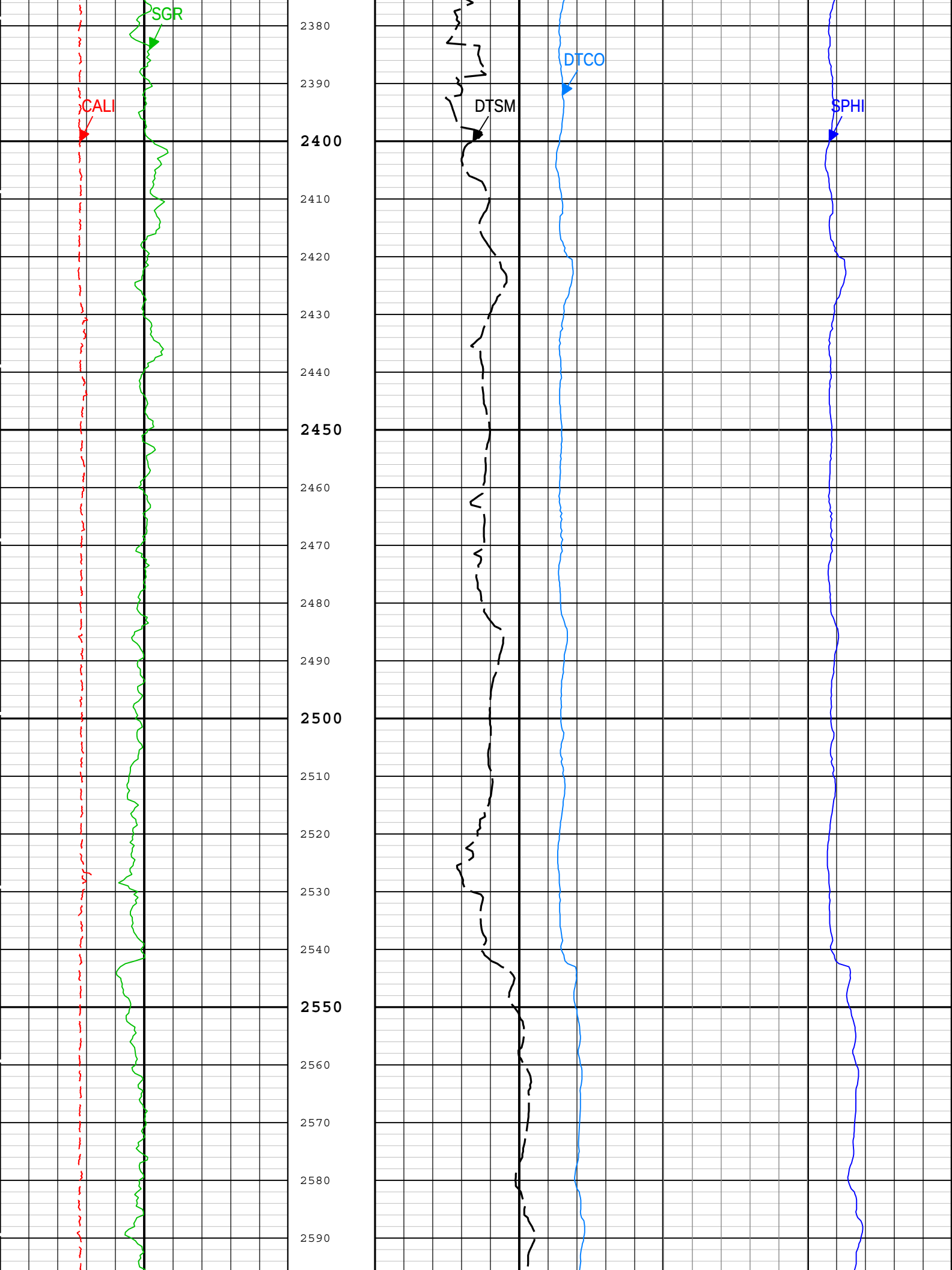
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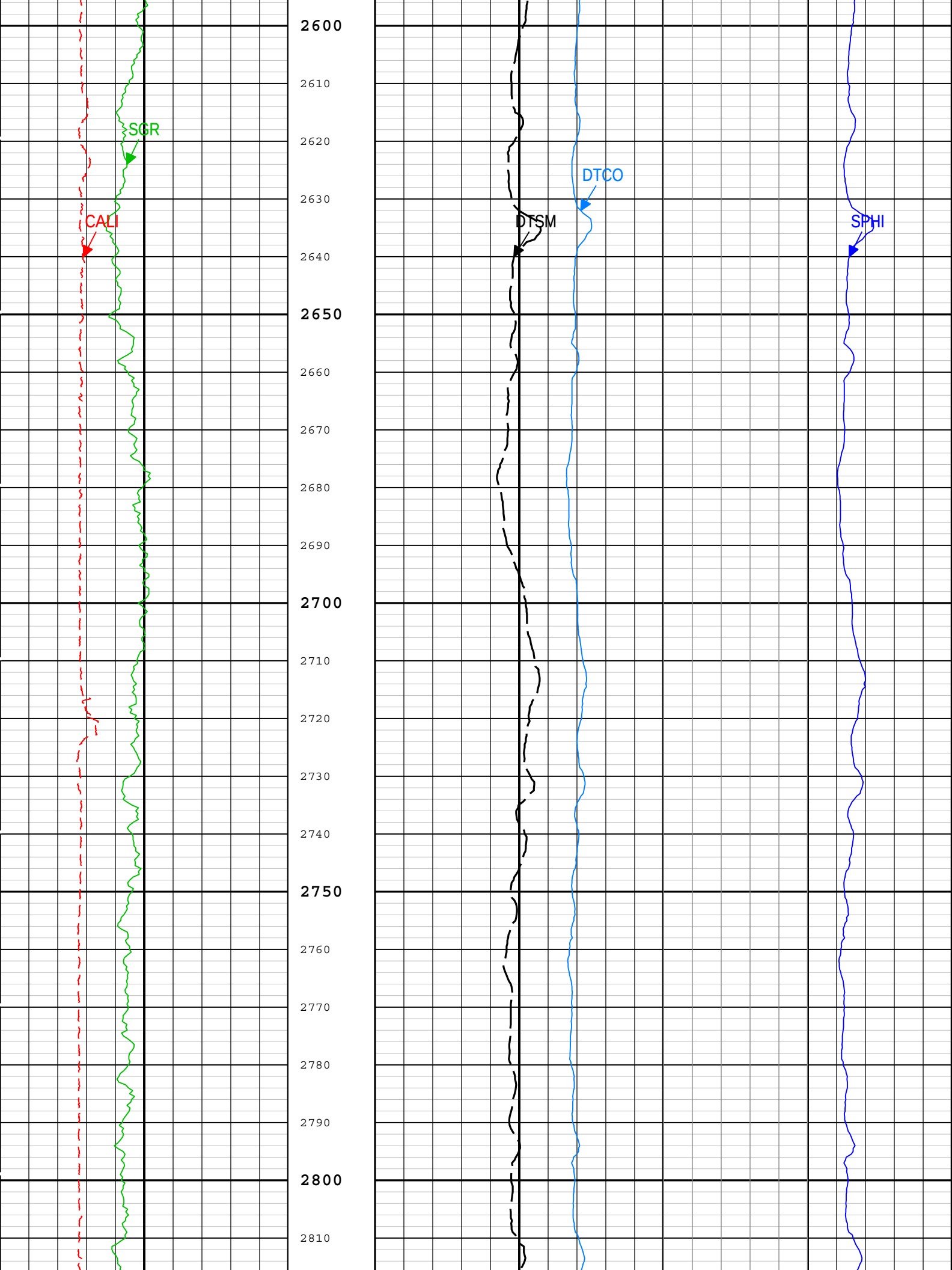
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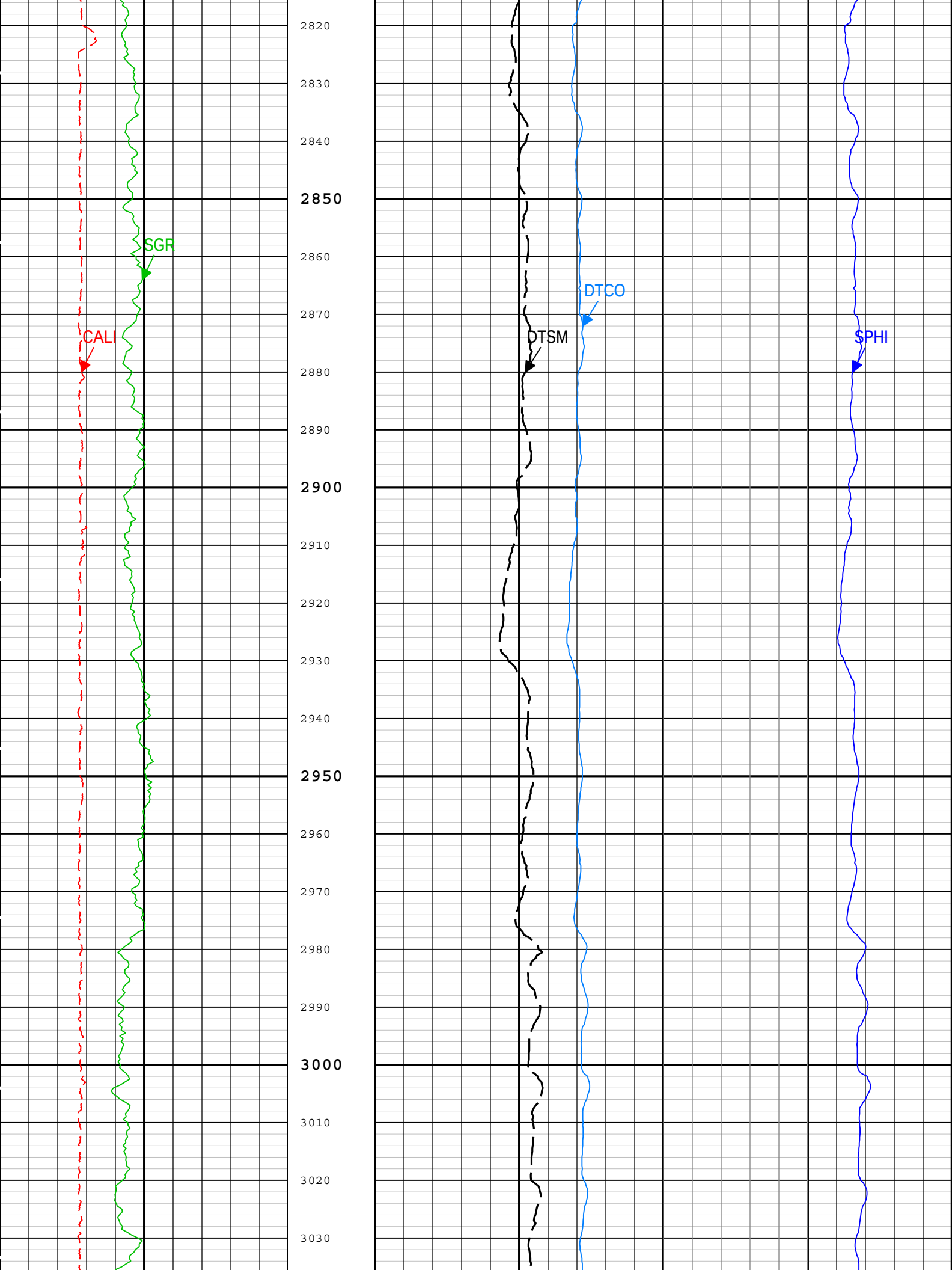
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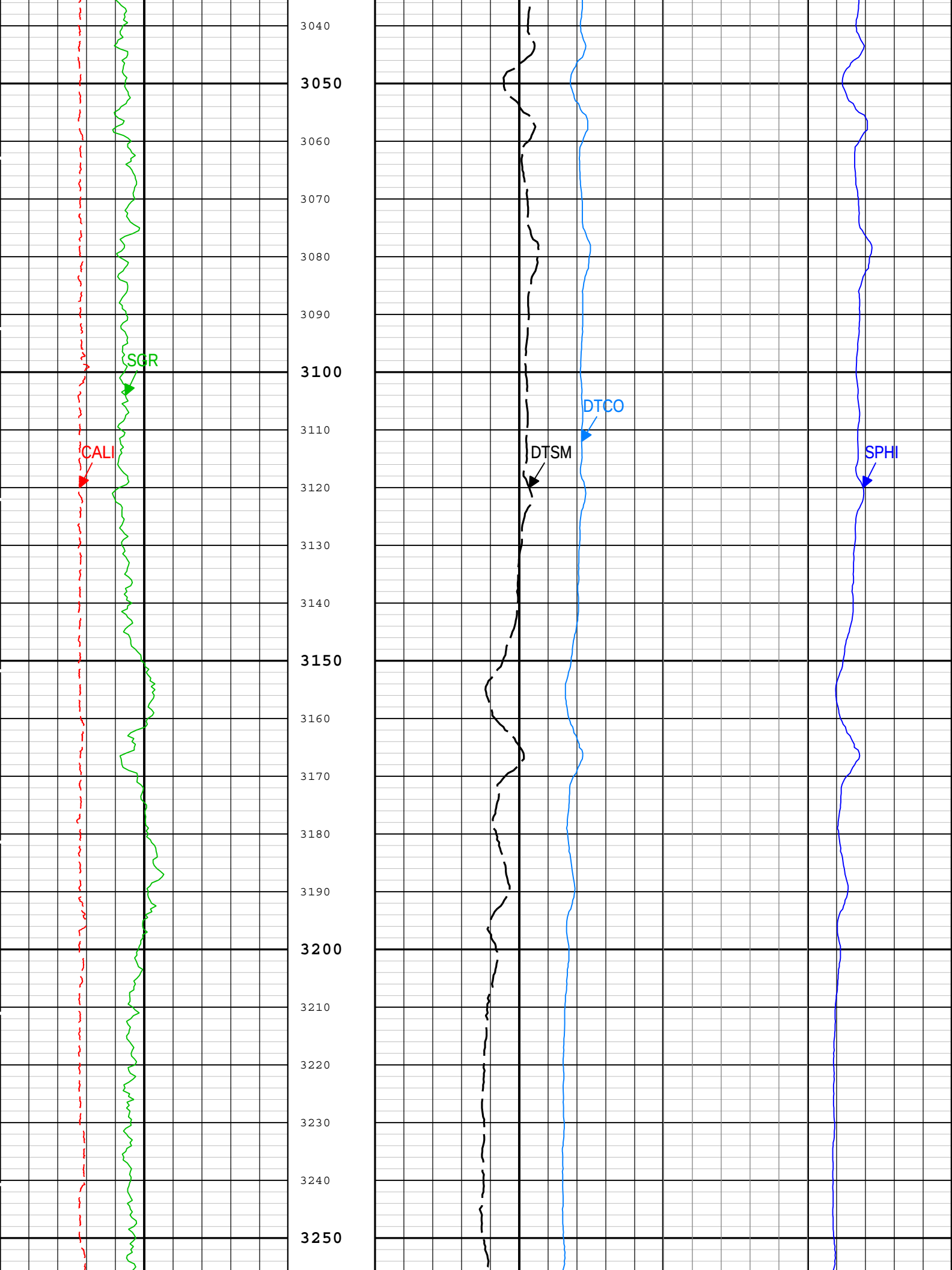
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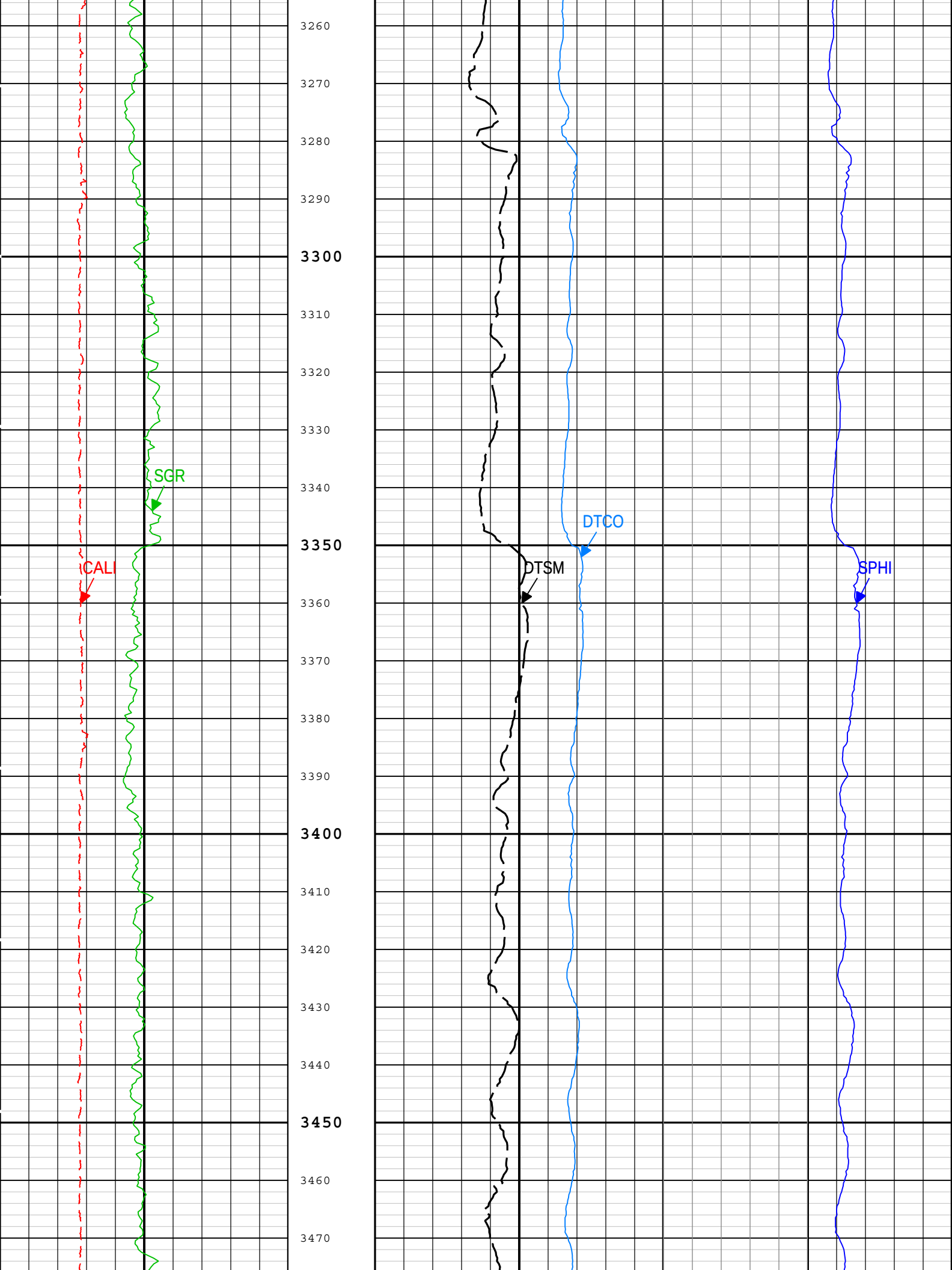
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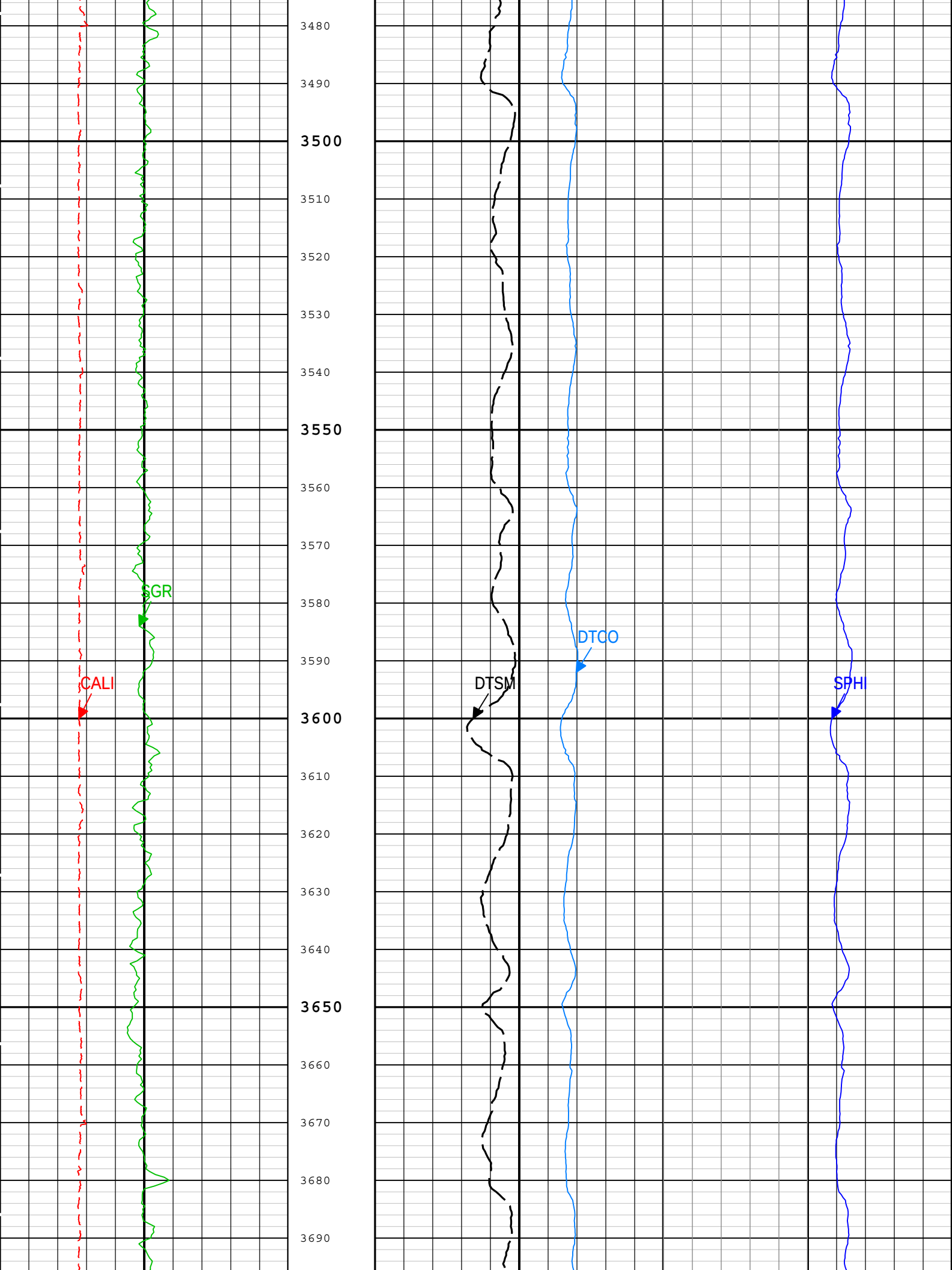
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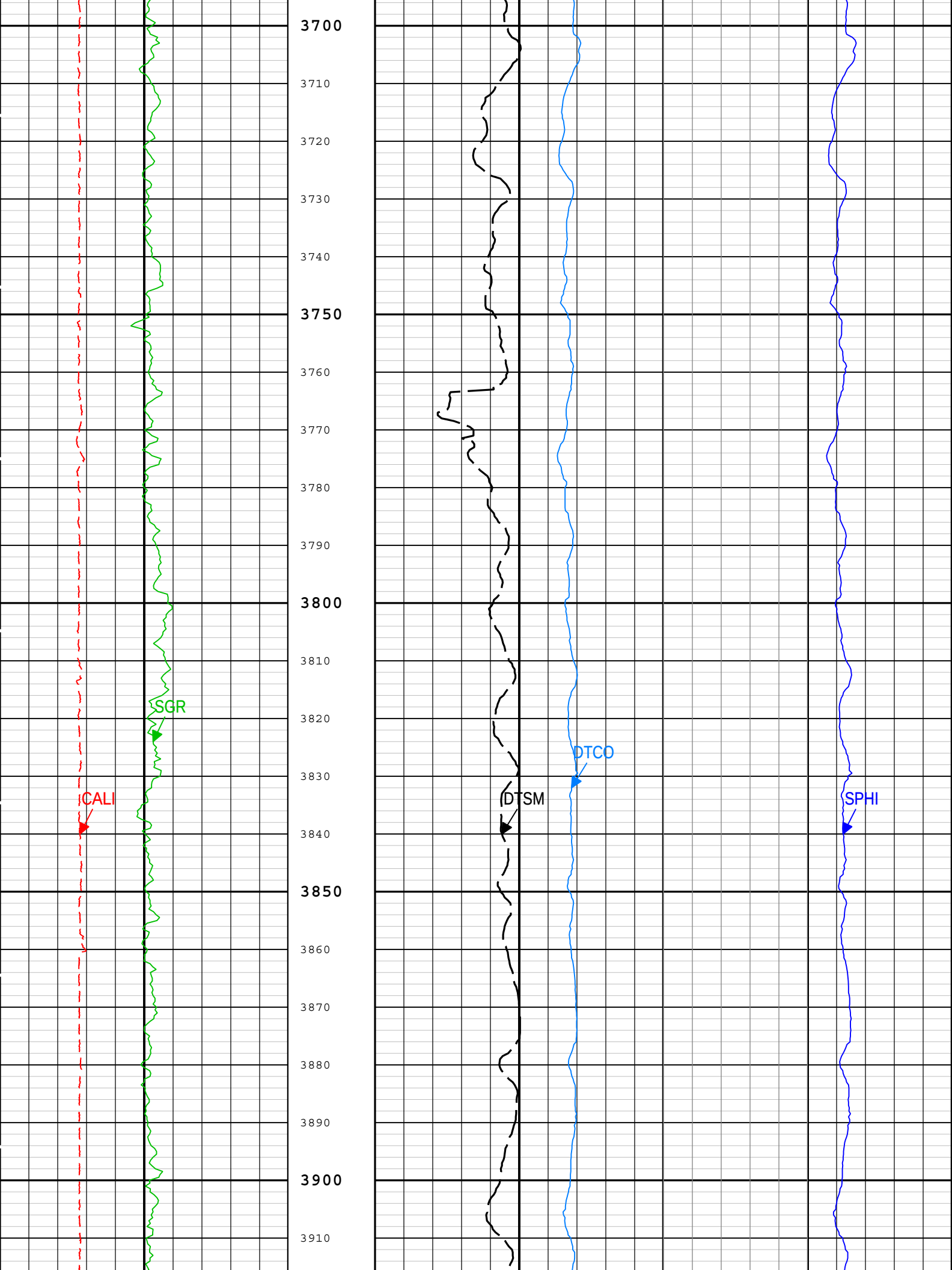
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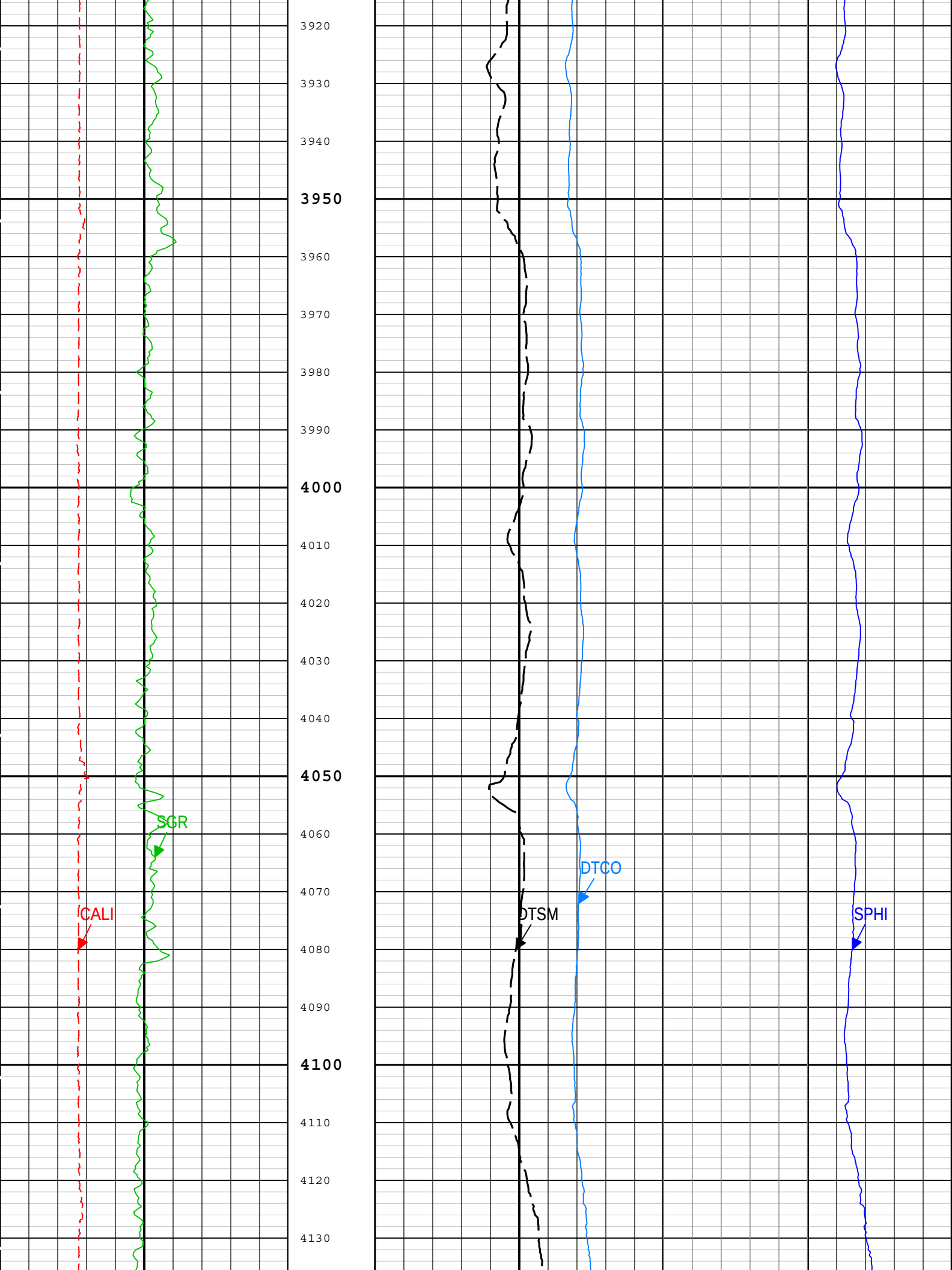
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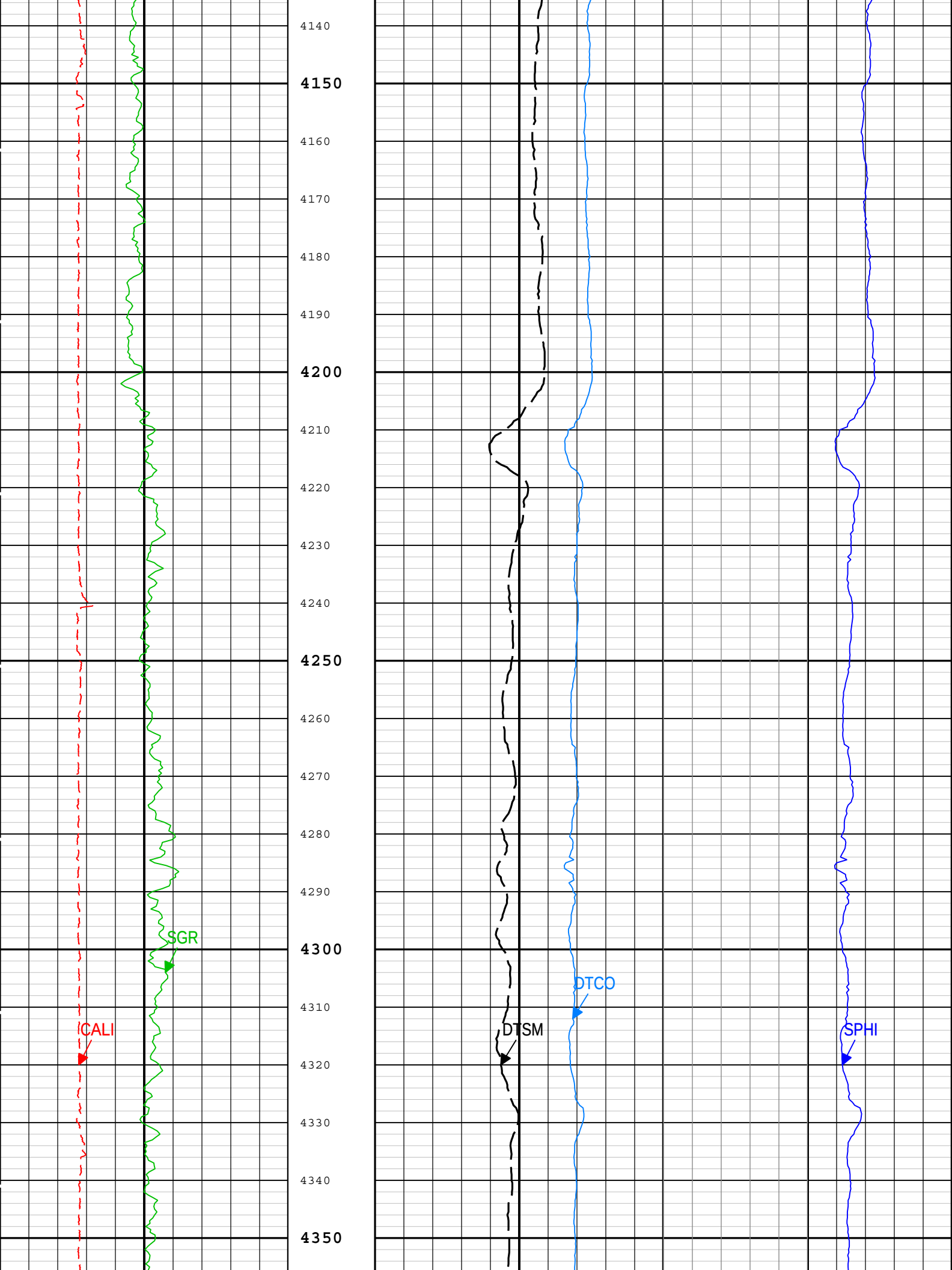
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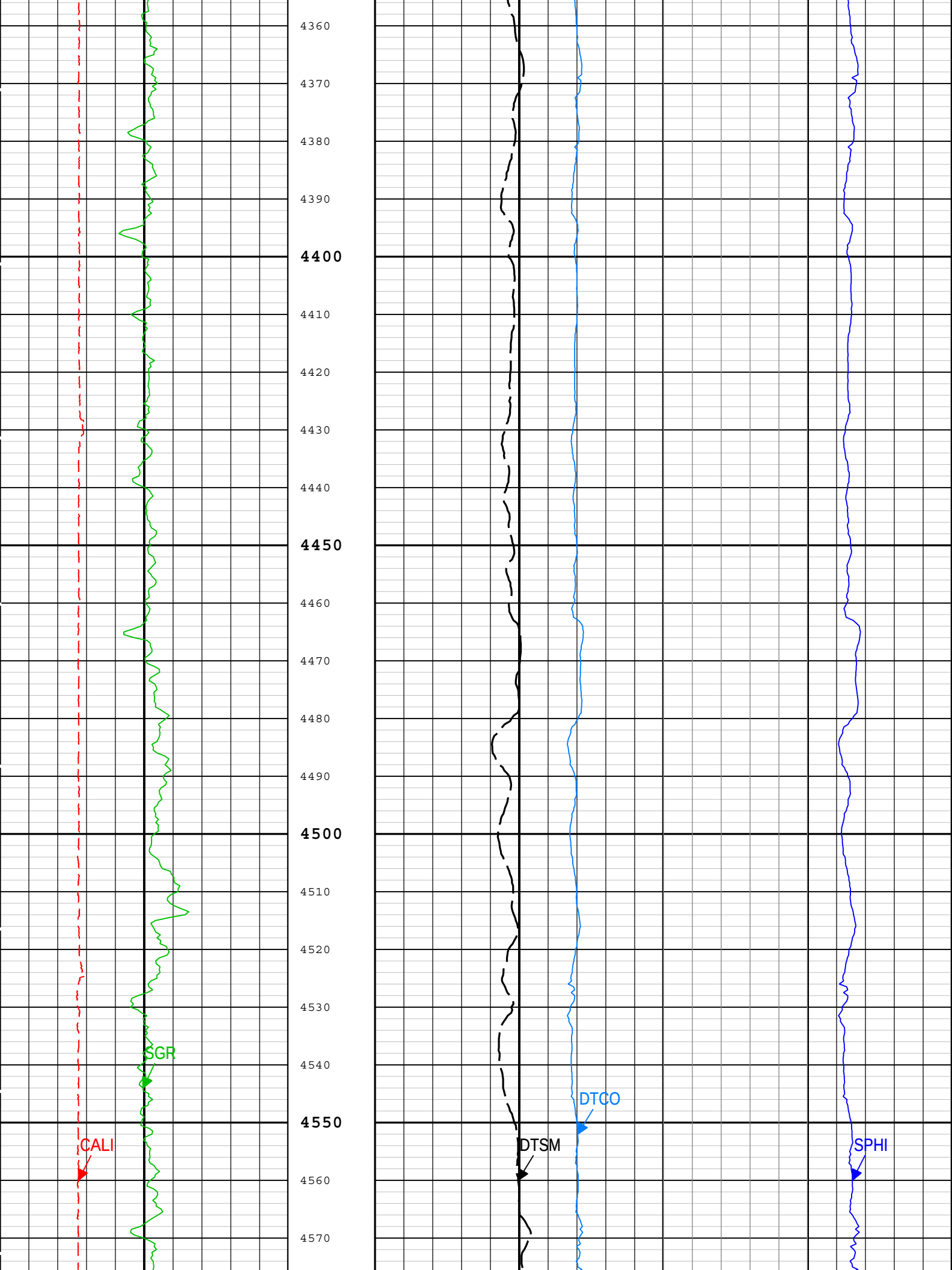
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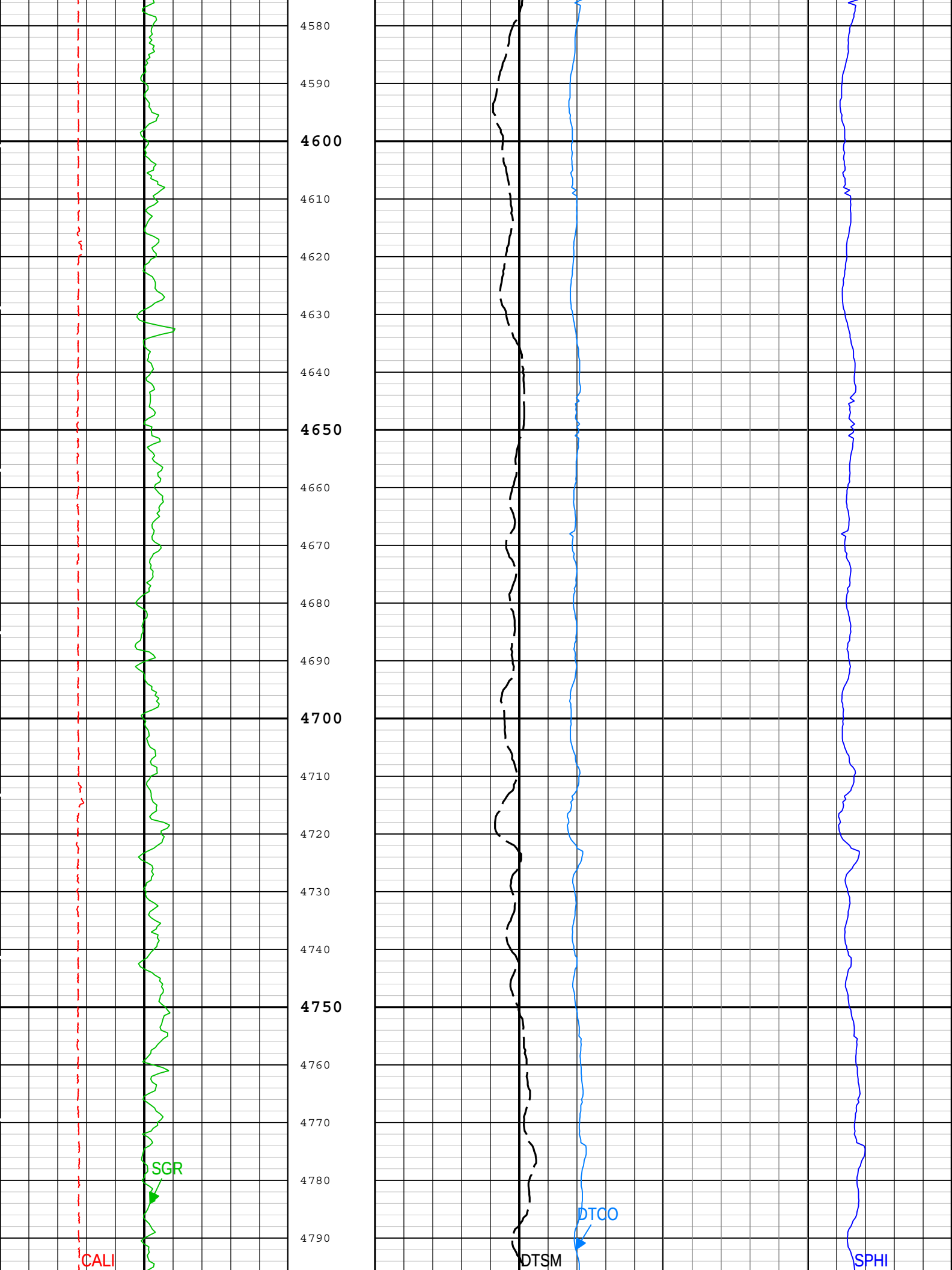
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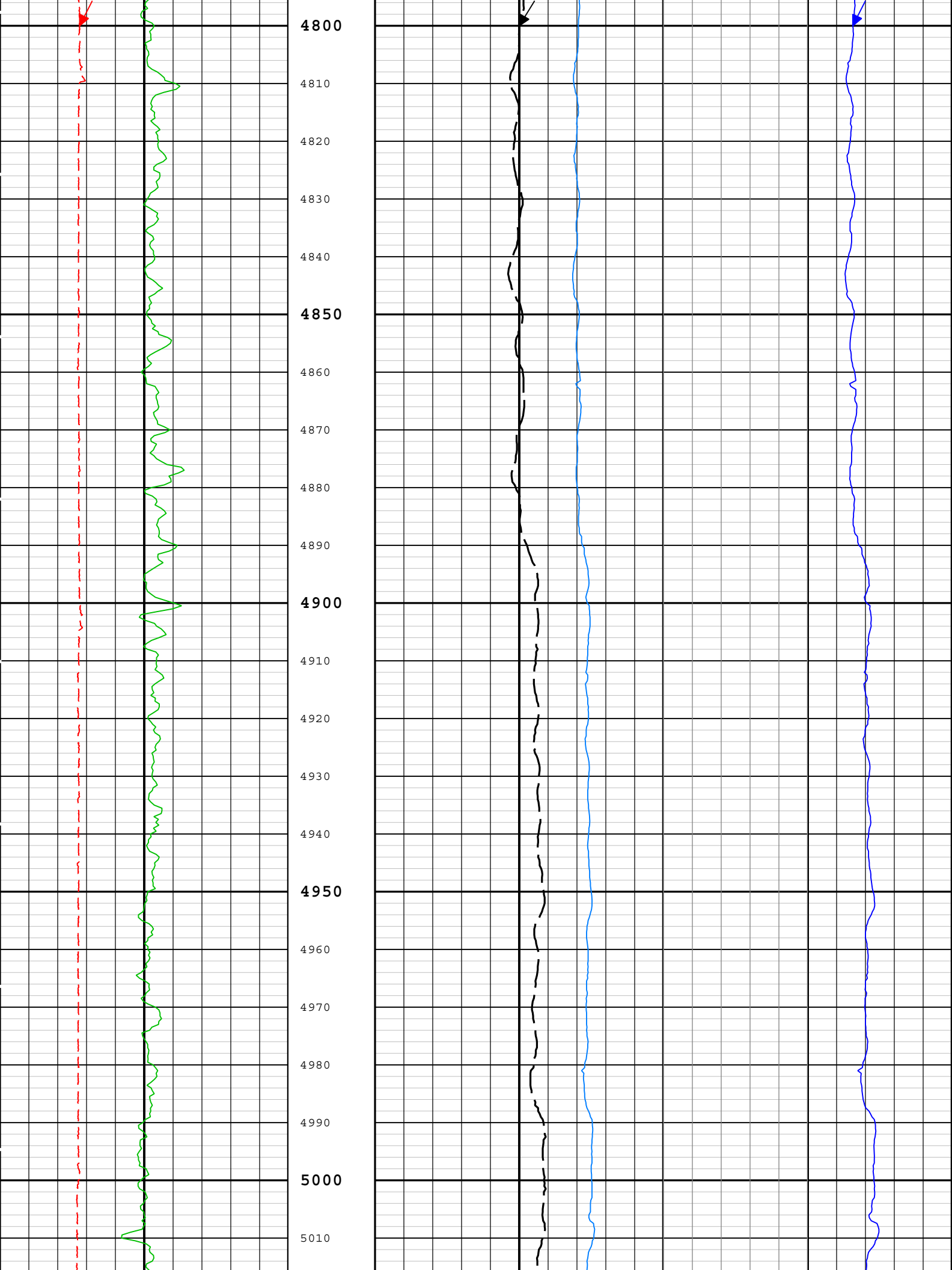
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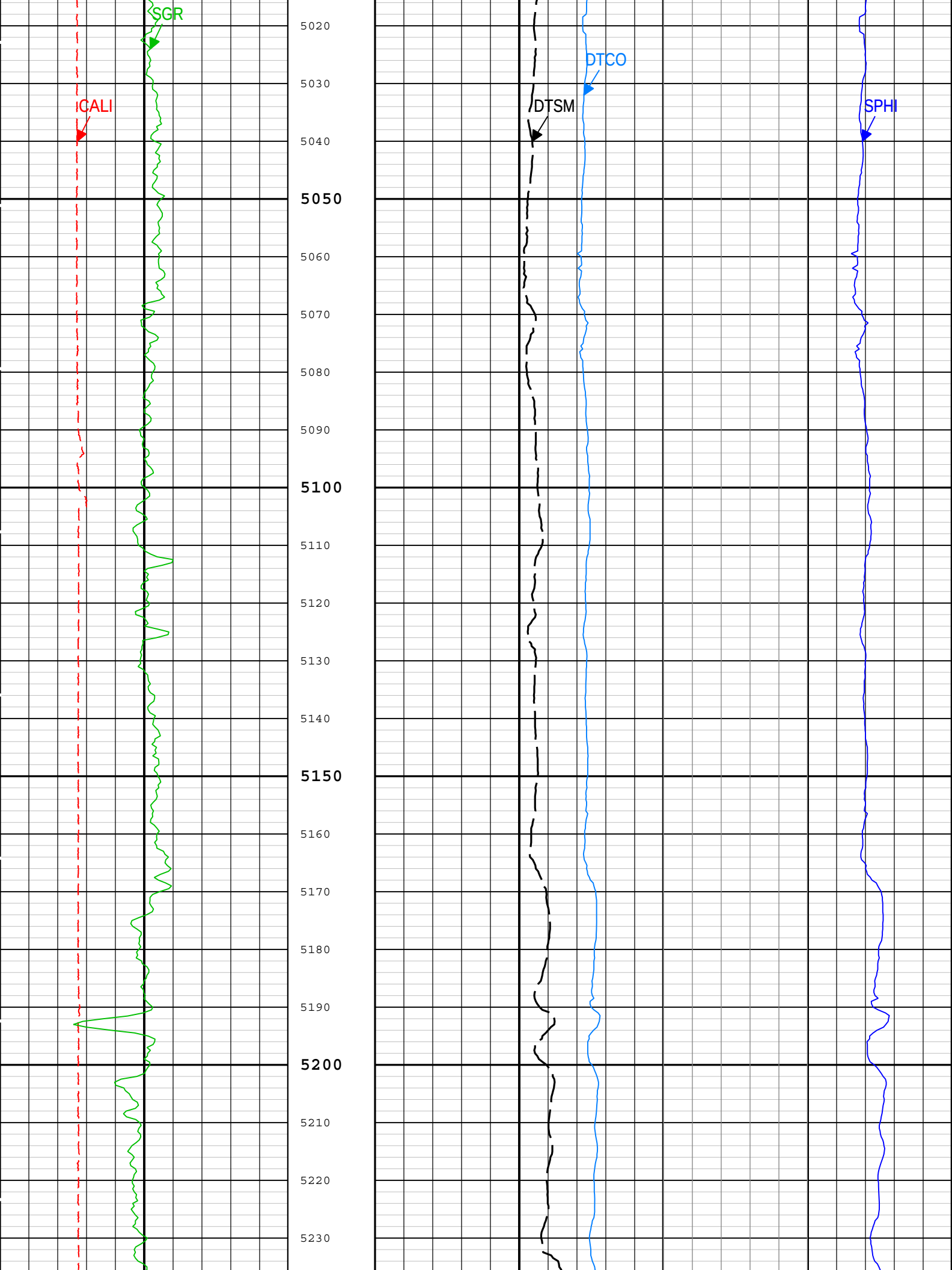
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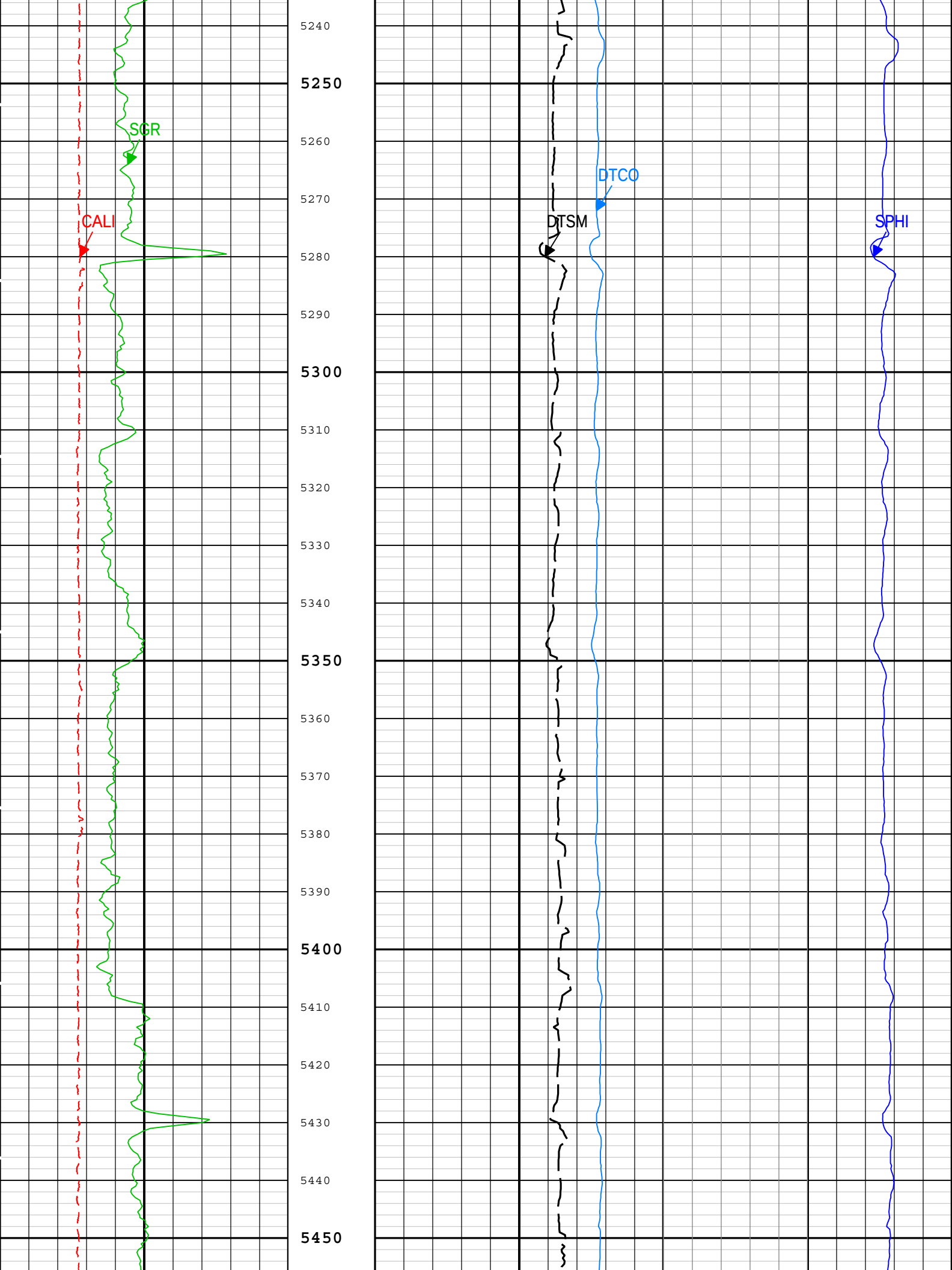
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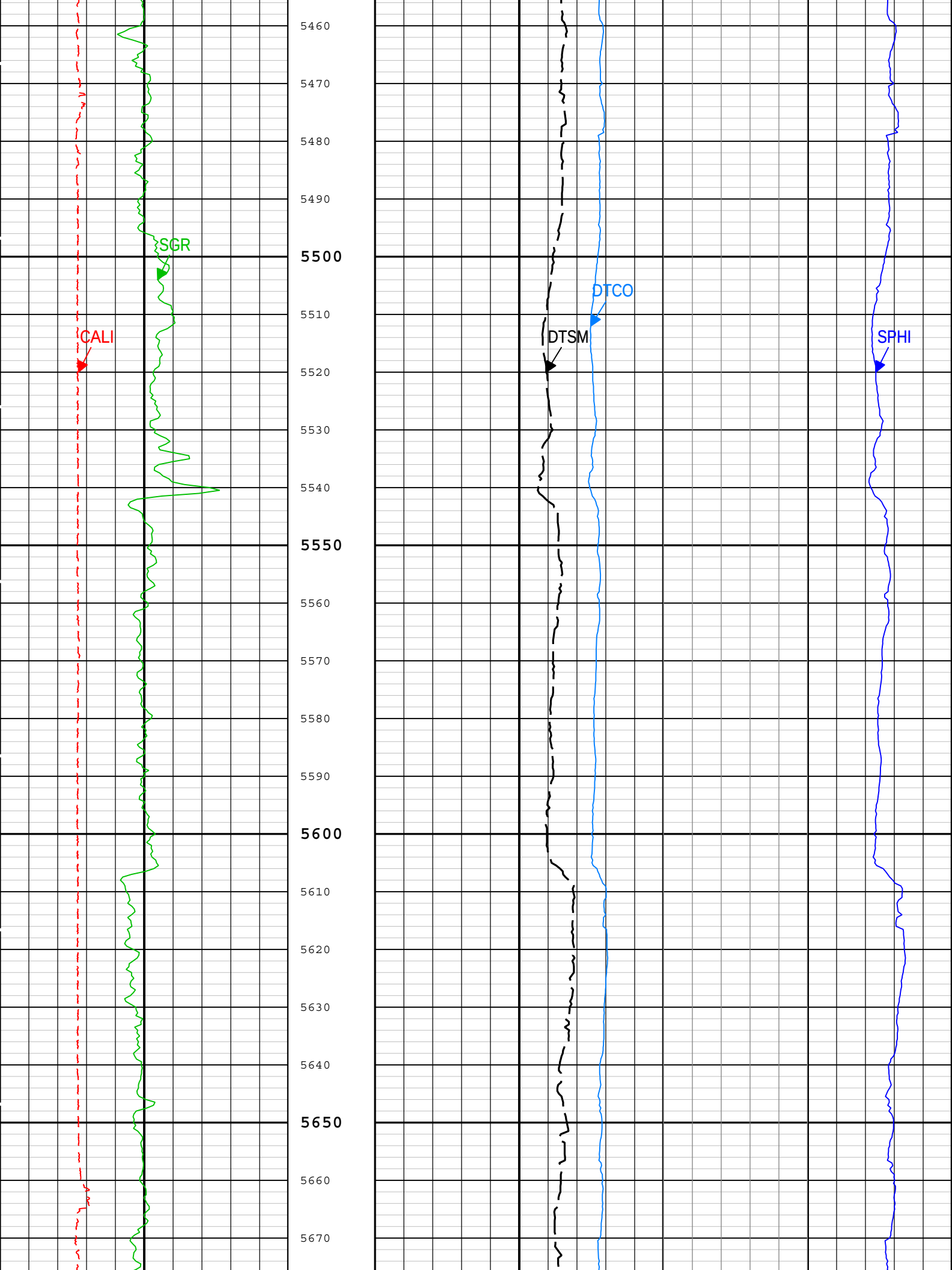
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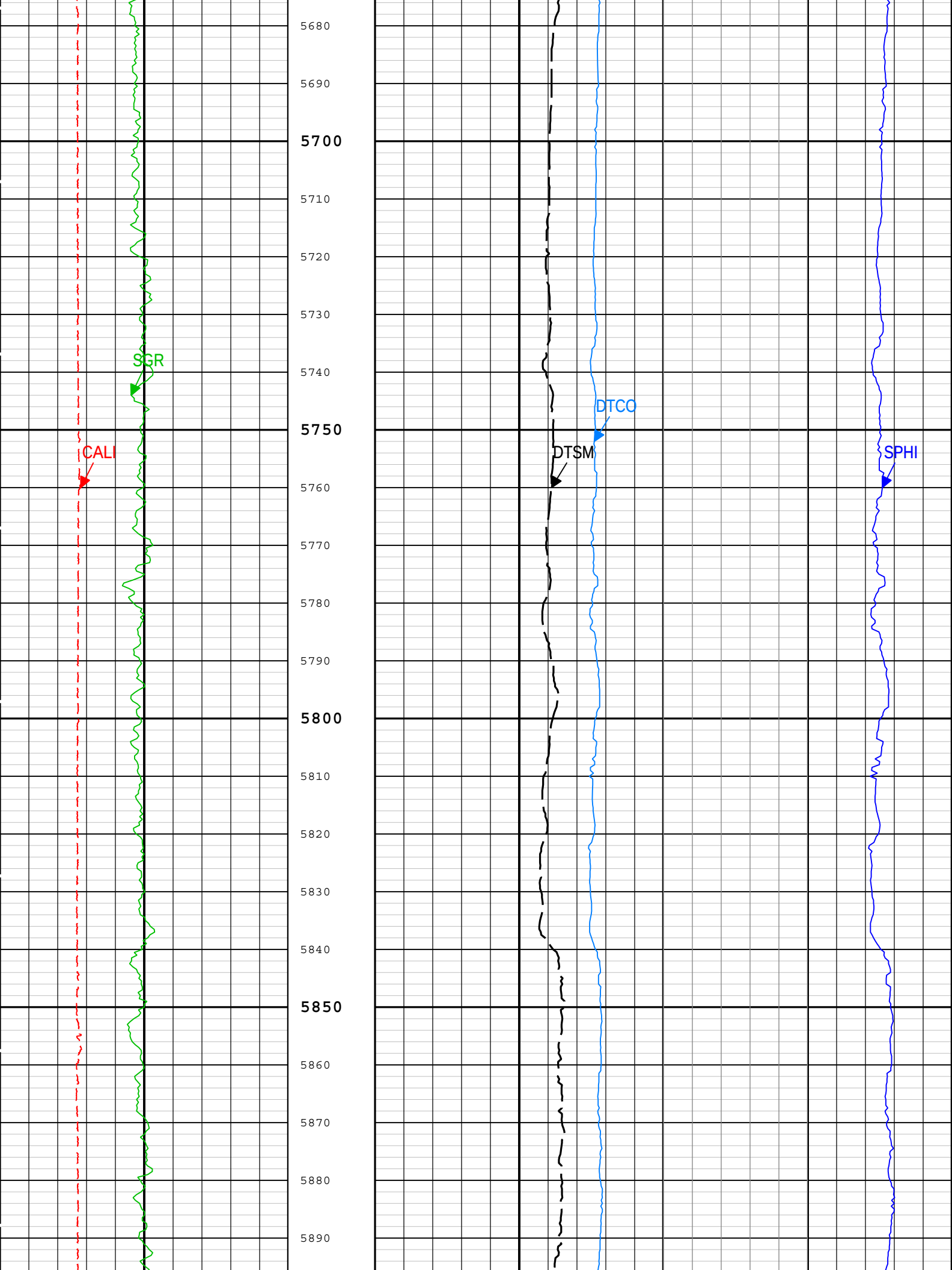
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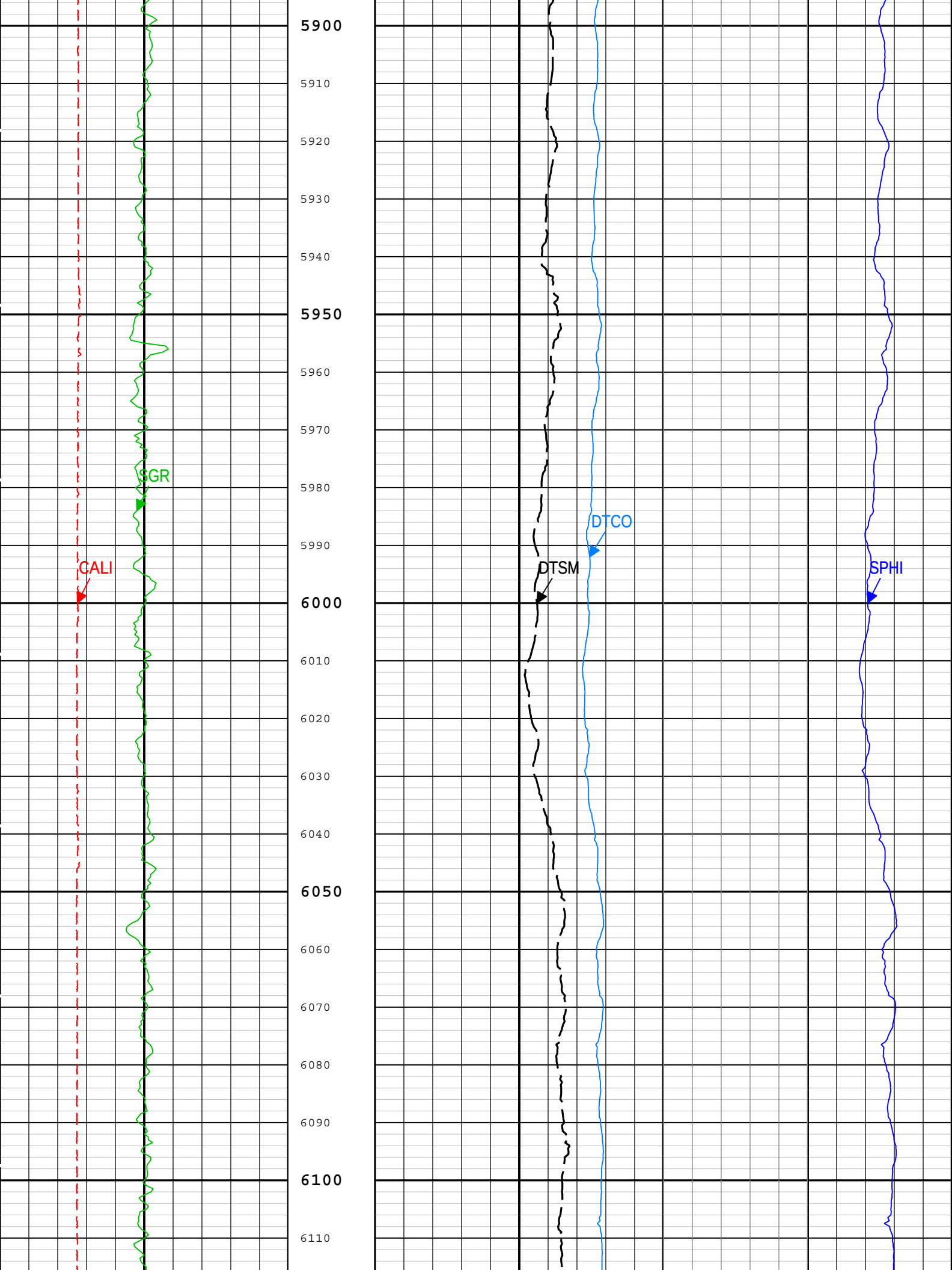
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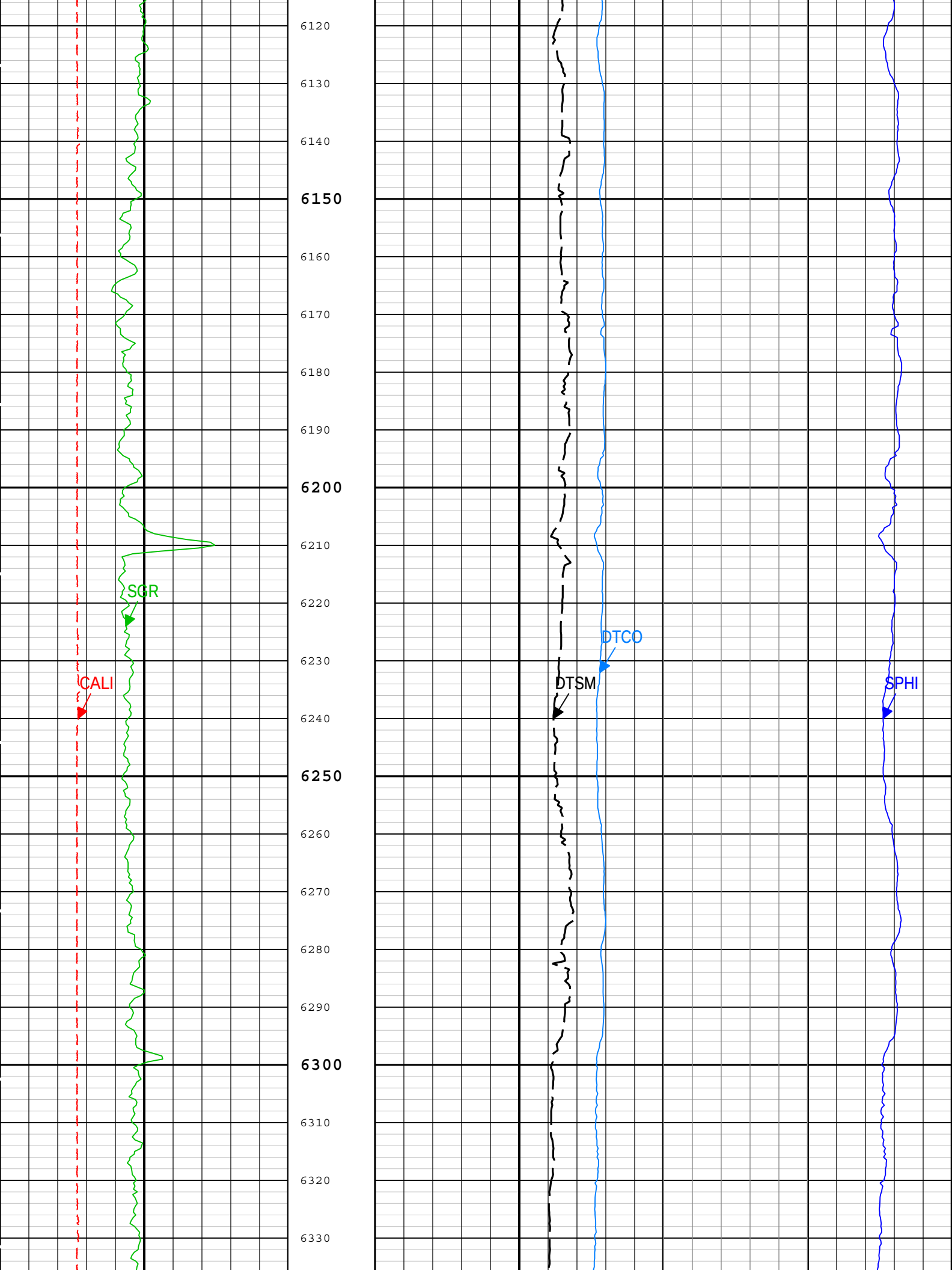
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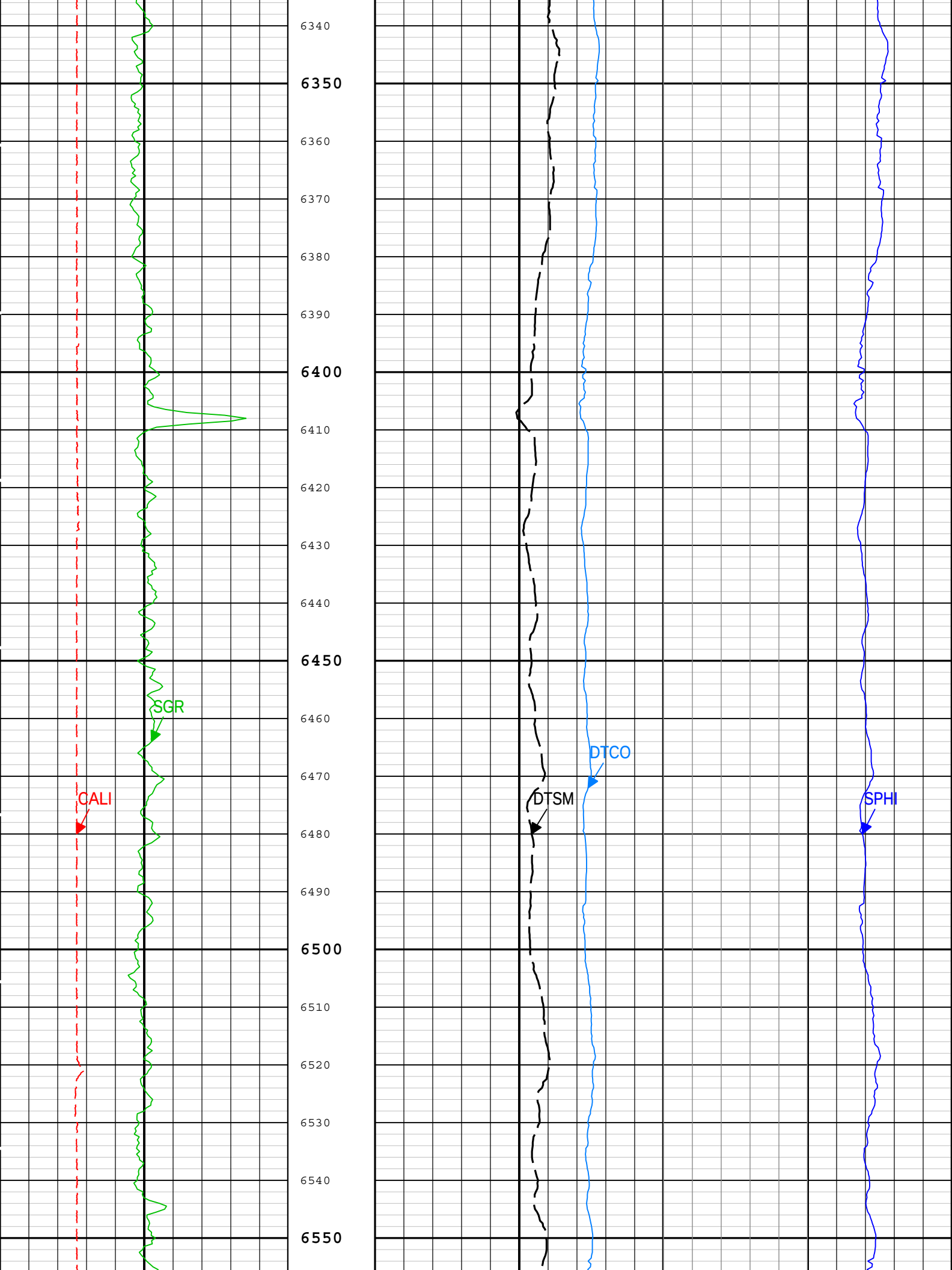
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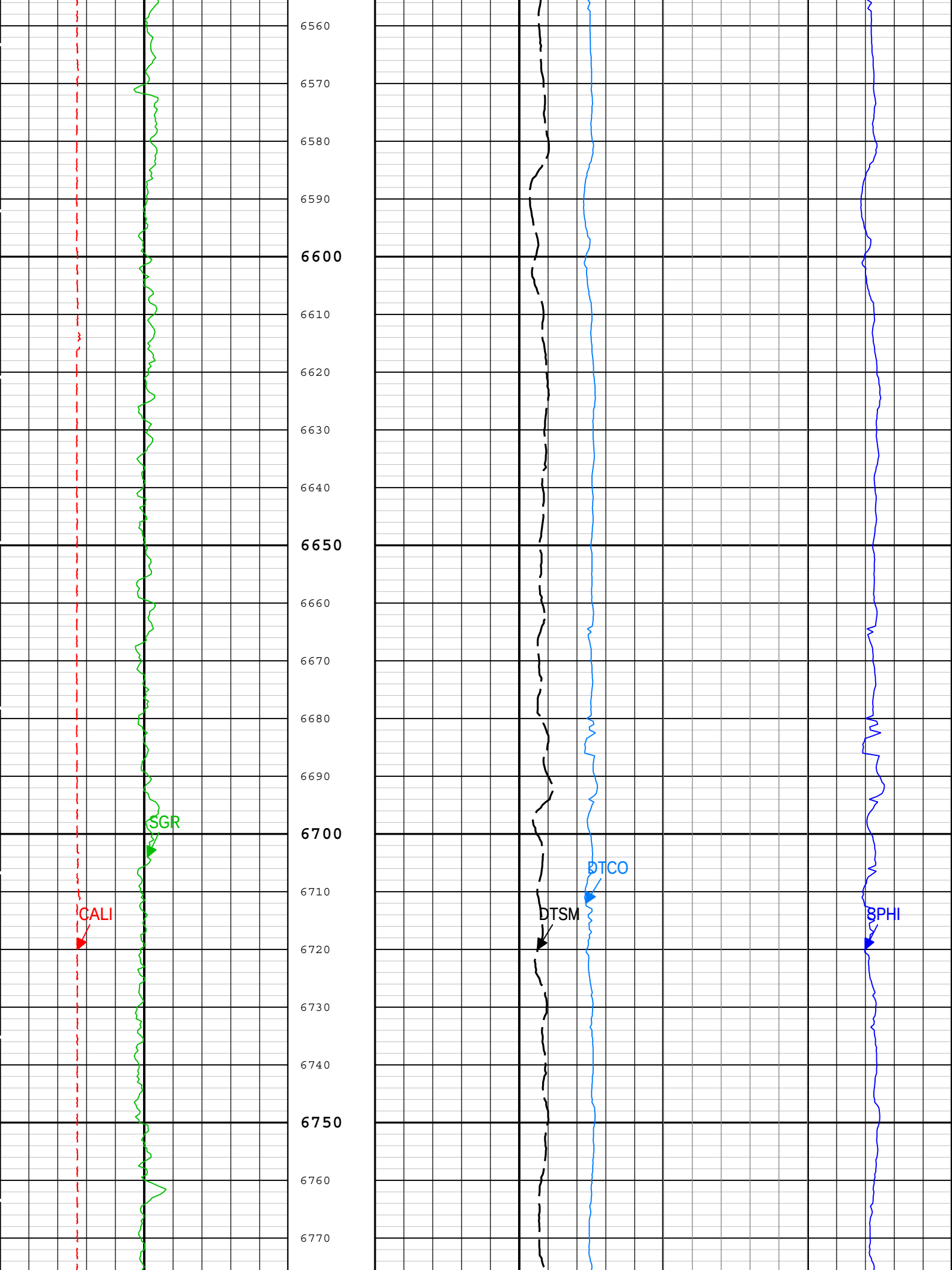
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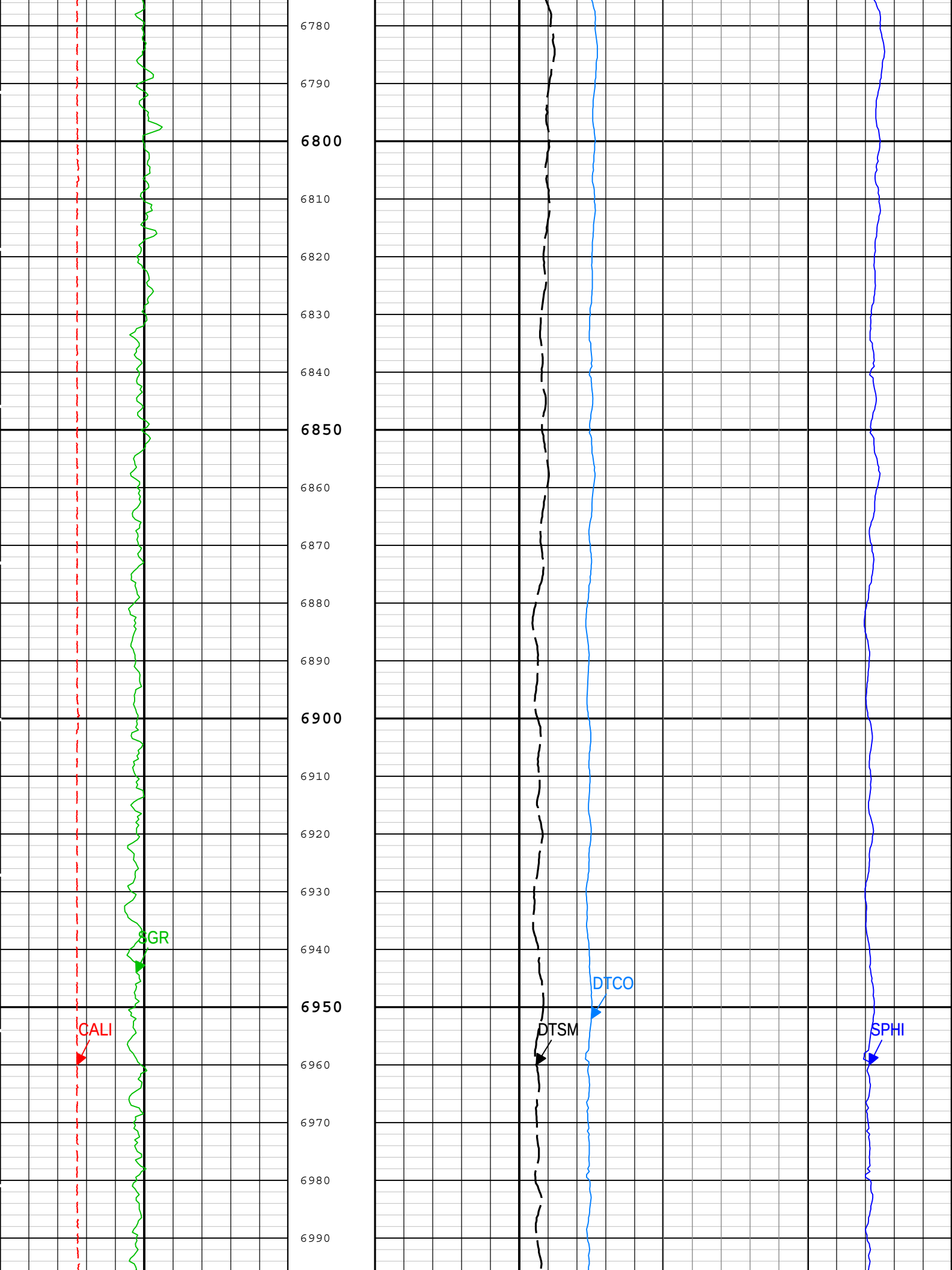
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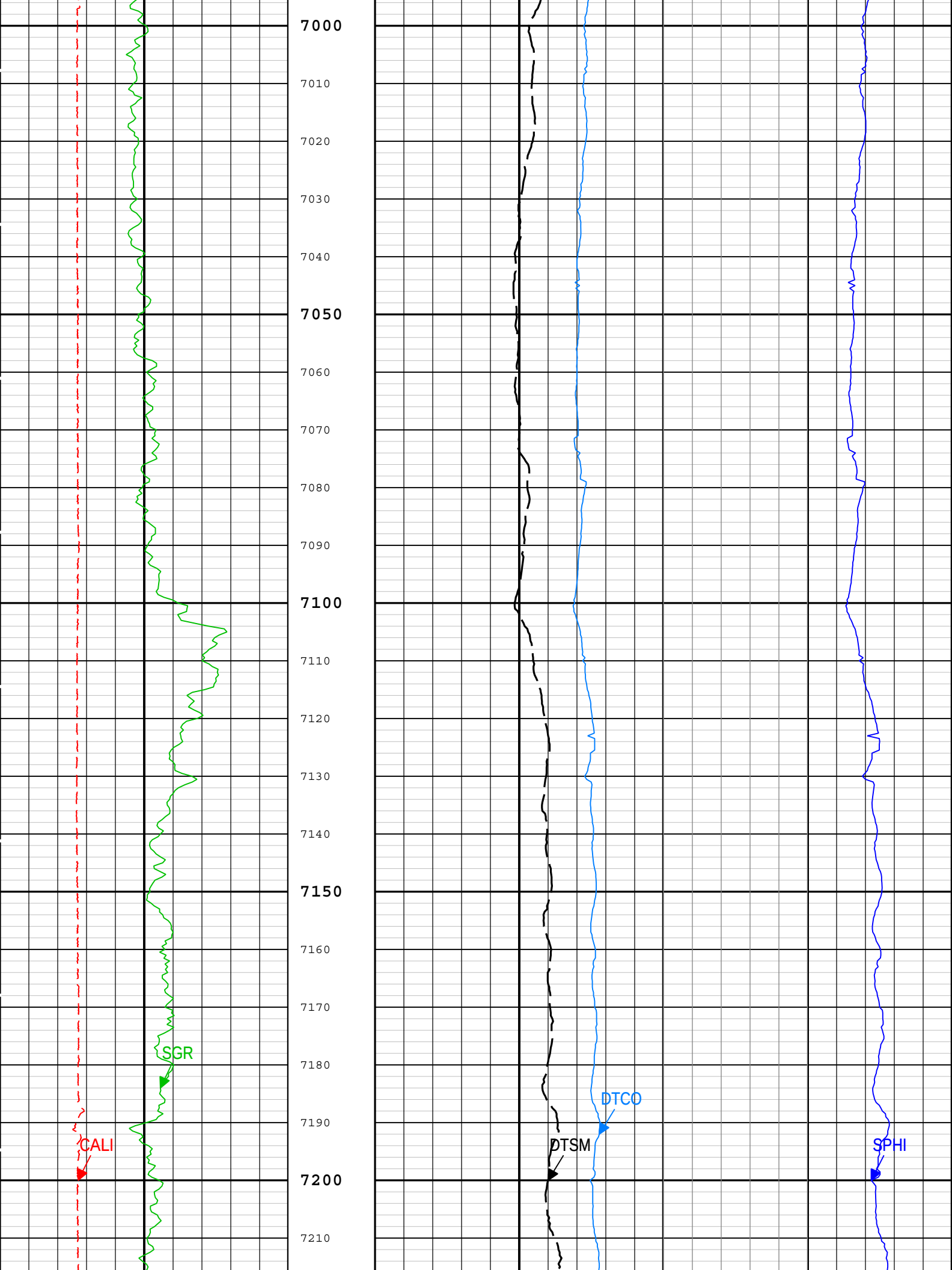
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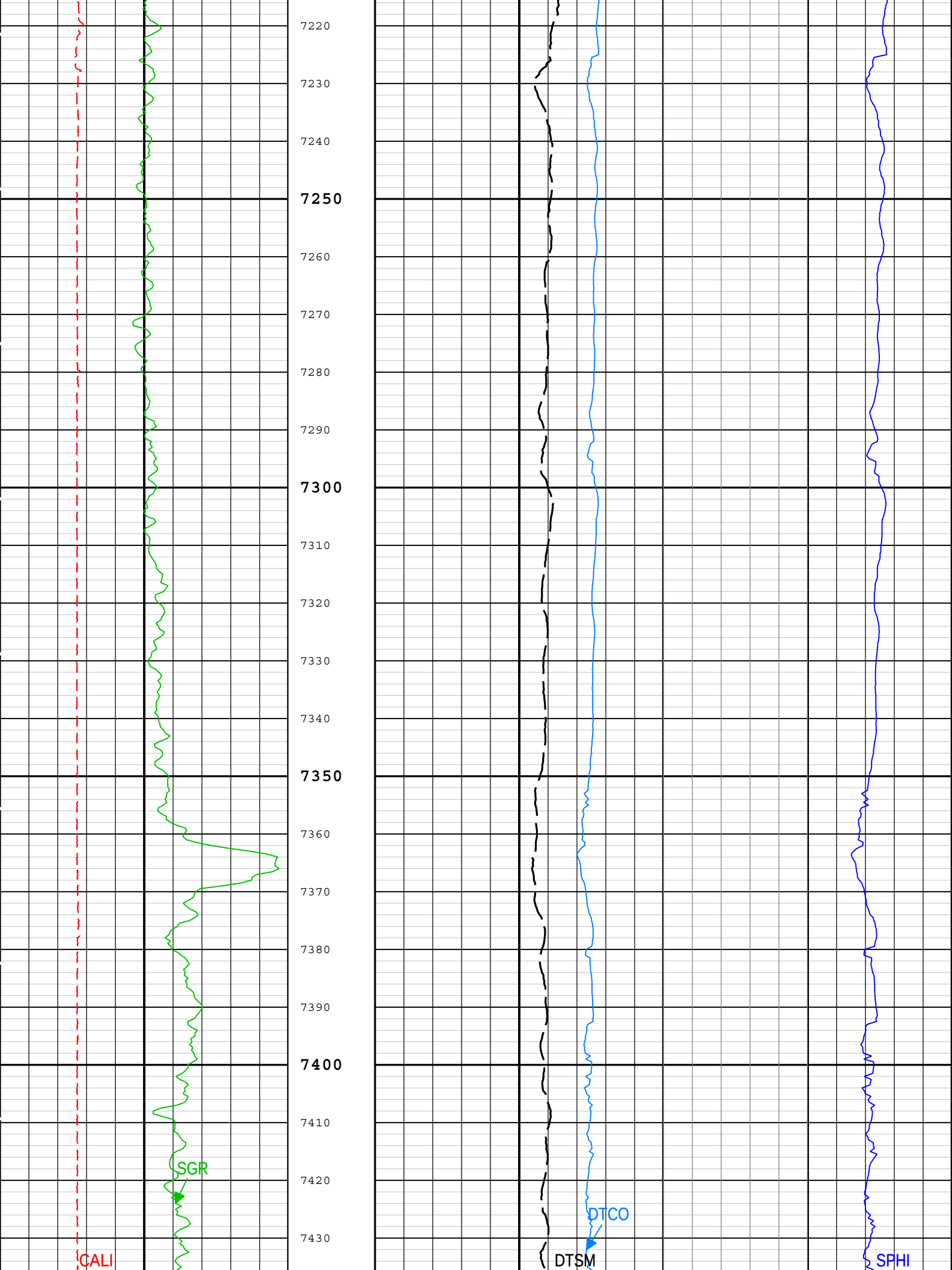
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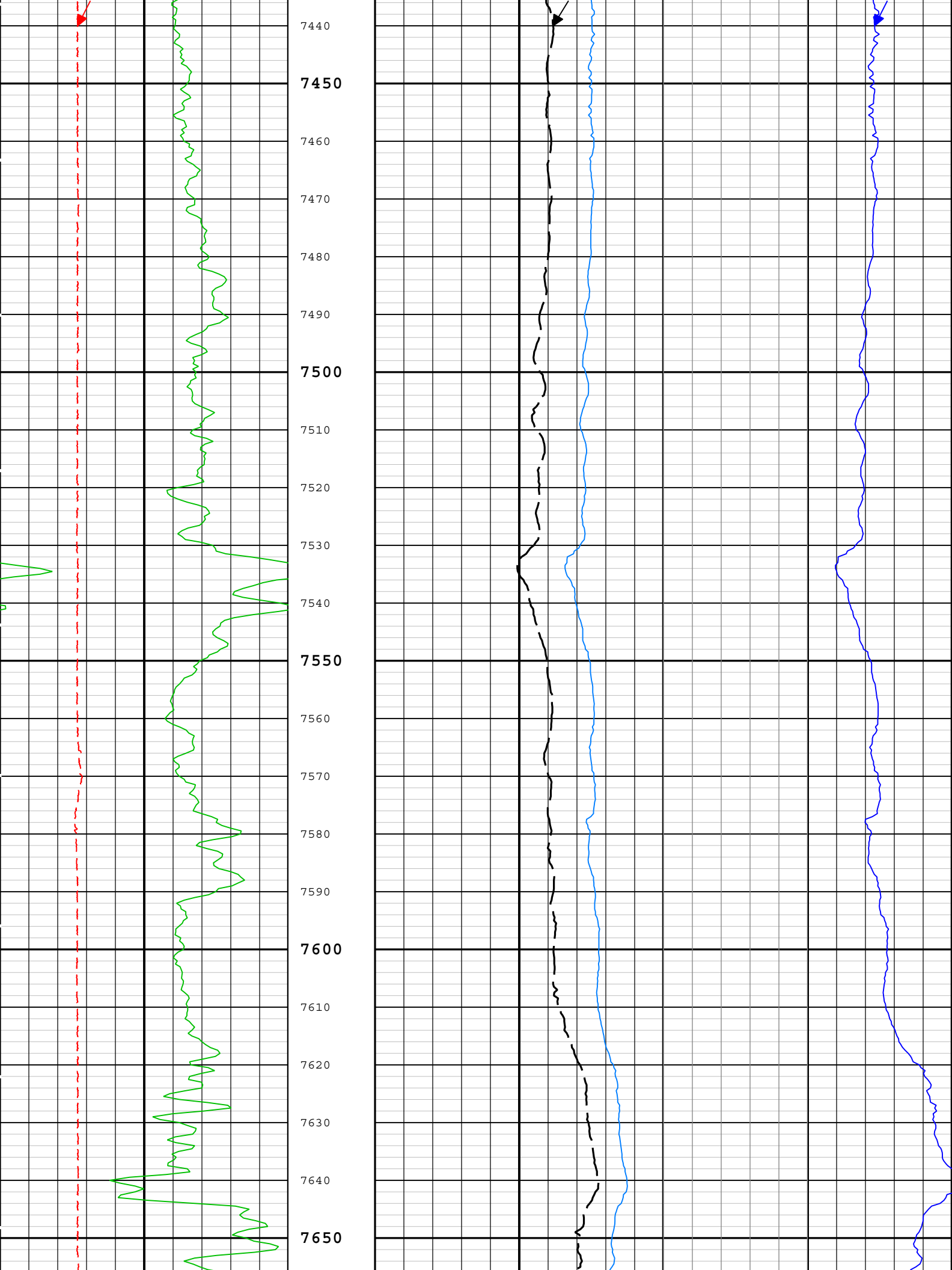
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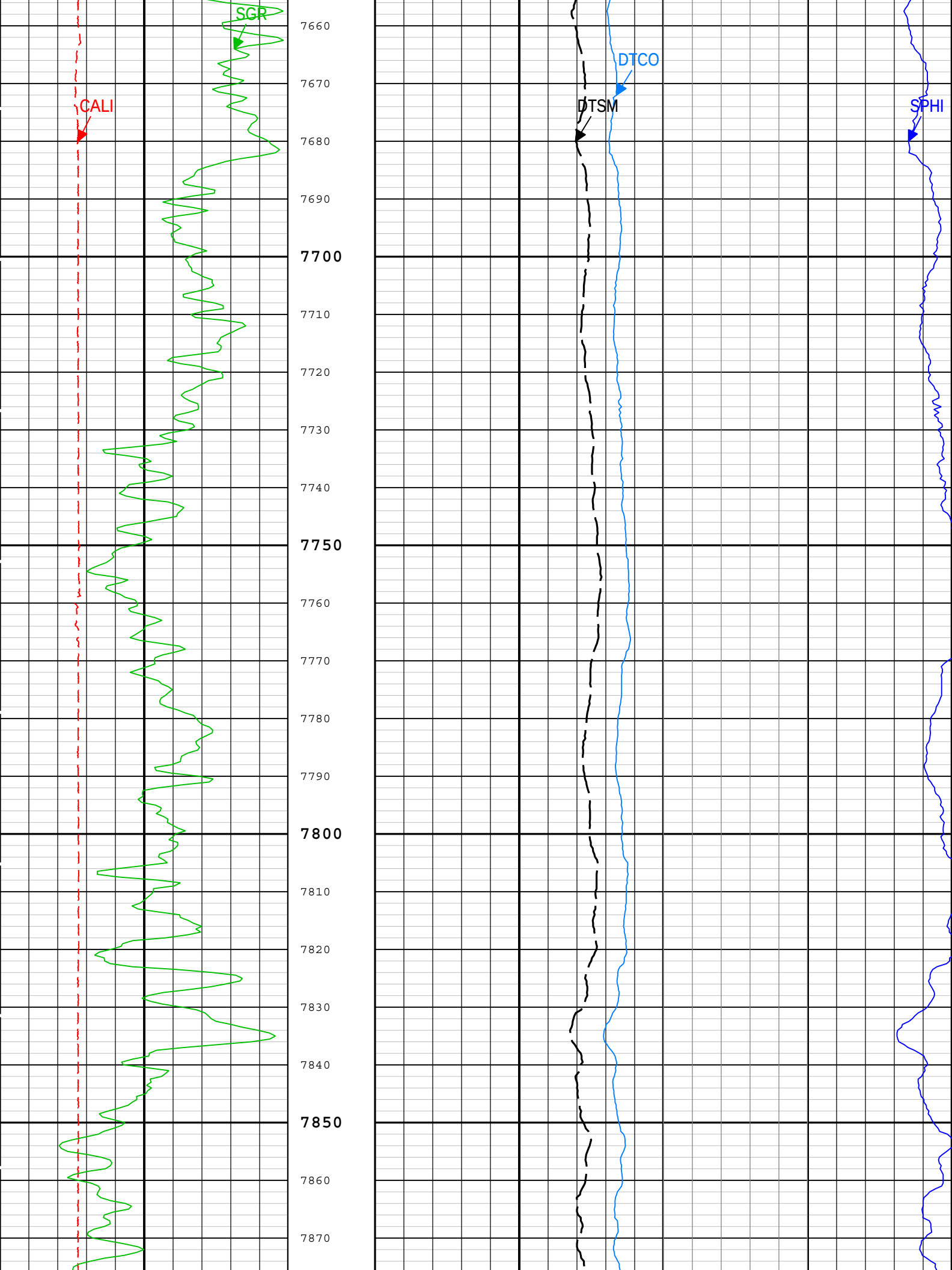
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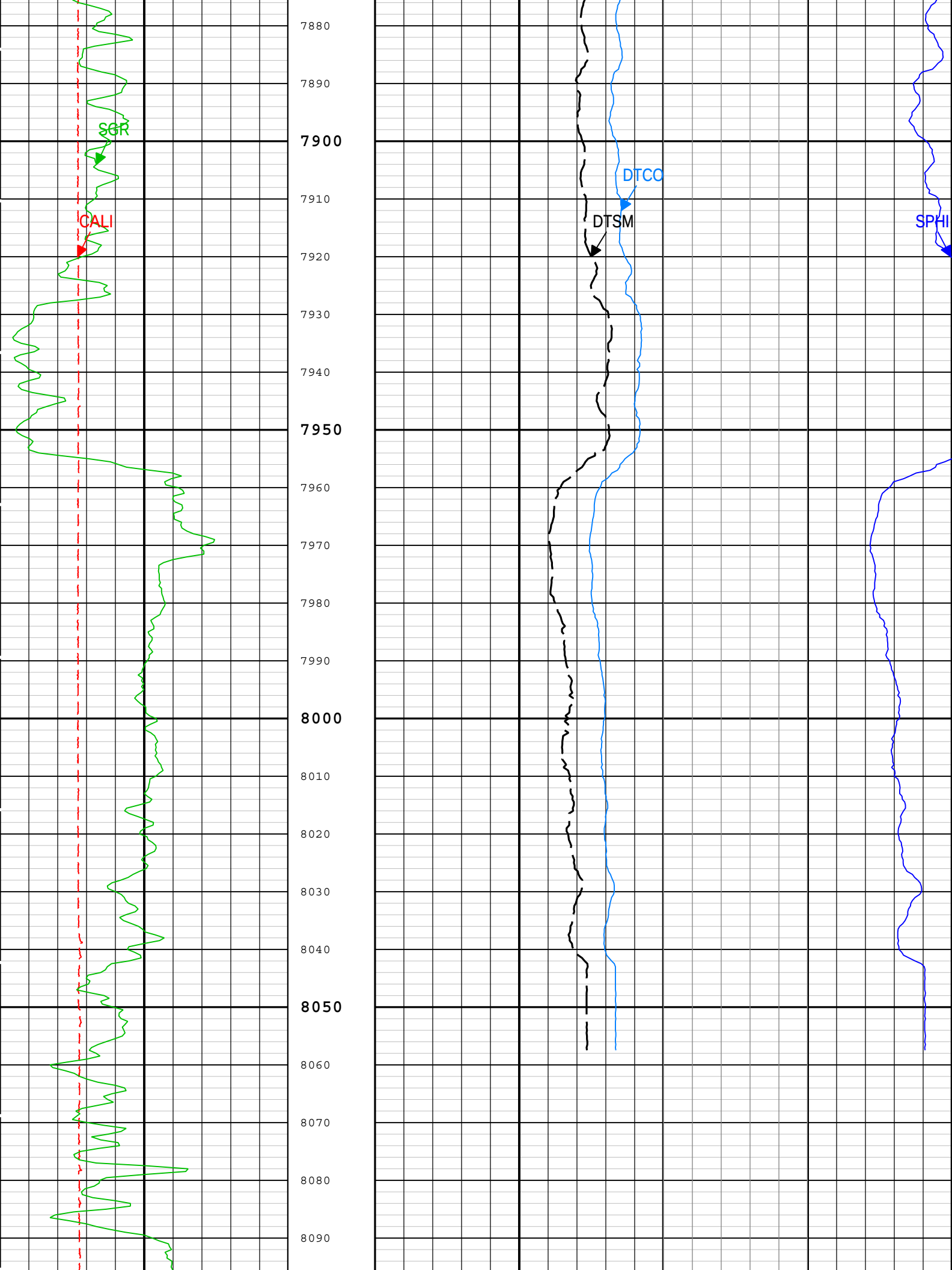
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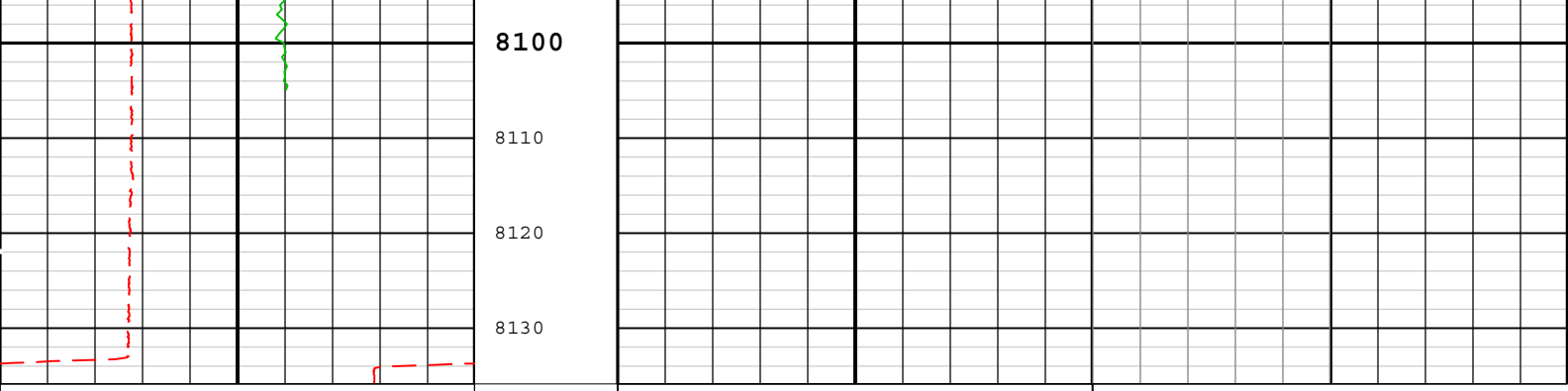

Caliper (CALI) HDRS-H
6 in 16

Delta-T Shear (DTSM) MAST-B
350 us/ft 50

Sonic Porosity (SPHI) MAST-B
0.6 ft3/ft3 0.1

Spectroscopy Gamma Ray (SGR) HNGS-BA
0 gAPI 200

Delta-T Compressional (DTCO) MAST-B
240 us/ft 40

TIME_1900 - Time Marked every 60.00 (s)

Description: Format: Log (Blank 3 Track Depth) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 16-Jun-2013 18:02:12

Channel Processing Parameters

Parameter	Description	Tool	Value	Unit
BARI	Barite Mud Presence Flag	Borehole	No	
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	0.08	in
CBLO	Casing Bottom (Logger)	WLSESSION	2188	ft
CDTS	Correction for Delta-T Shale, Empirical	Borehole	100	us/ft
DBCC	Barite Constant Correction Flag	HNGS-BA	None	
DFD	Drilling Fluid Density	Borehole	9.4	lbm/gal
DFT	Drilling Fluid Type	Borehole	Oil	
DTF	Delta-T Fluid	Borehole	189	us/ft
DTM	Delta-T Matrix	Borehole	56	us/ft
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
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	
SFTY	Slowness Formation Type (Fast, Intermediate, Slow, etc.)	Borehole	Intermediate	
SGRC	Standard Gamma Ray Correction Flag	HNGS-BA	Yes	
SPFS	Sonic Porosity Formula	Borehole	Raymer-Hunt	

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	0	2150	2188
BS	8.75	2188	8135.83

All depth are actual.

Tool Control Parameters

Parameter	Description	Tool	Value	Unit
CBOOTSTA_MAPC	MAMS Controller Boot Status	MAST-B	1	
CFWREV_MAPC	MAPC Firmware Revision of Controller Electronics	MAST-B	1840	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	Time Zoned	ft/h

MAX_TOOL_SPEED	Maximum service speed allowed for, or attained by, a logging tool.	MAST-B	Time Zoned	ft/h
MSMT_LIST	Measurement List	MAST-B	[MUM, MLM, MFM, MFL, 90C, 00C]	
PROD_CLASS	MAST Product Class Selection	MAST-B	STD	
R10FWREV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #10	MAST-B	1057	
R11FWREV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #11	MAST-B	1057	
R12FWREV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #12	MAST-B	1057	
R13FWREV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #13	MAST-B	1057	
R1FWREV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #1	MAST-B	1057	
R2FWREV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #2	MAST-B	1057	
R3FWREV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #3	MAST-B	1057	
R4FWREV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #4	MAST-B	1057	
R5FWREV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #5	MAST-B	1057	
R6FWREV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #6	MAST-B	1057	
R7FWREV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #7	MAST-B	1057	
R8FWREV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #8	MAST-B	1057	
R9FWREV_MAPC	MAPC Firmware Revision of Sensor Electronics Station #9	MAST-B	1057	
RBOOTSTA_MAPC	MAMS Receiver Boot Status	MAST-B	1	
SERVICE_LIST	Service Selection List	MAST-B	[STSTC, NMSTC, XDSTC, YDSTC, FMSTC, ANISO, CRV, BHC, PBHC, NMATD, FMATD]	

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
MAX_LOG_SPEED	1754	16-Jun-2013 08:55:12	16-Jun-2013 09:00:17	8154.18	8061.02
MAX_LOG_SPEED	1800	16-Jun-2013 09:00:17	16-Jun-2013 09:02:20	8061.02	8006.69
MAX_LOG_SPEED	1704	16-Jun-2013 09:02:20	16-Jun-2013 09:04:23	8006.69	7952.66
MAX_LOG_SPEED	1800	16-Jun-2013 09:04:23	16-Jun-2013 09:09:30	7952.66	7817.98
MAX_LOG_SPEED	1714	16-Jun-2013 09:09:30	16-Jun-2013 09:14:37	7817.98	7684.07
MAX_LOG_SPEED	1800	16-Jun-2013 09:14:37	16-Jun-2013 12:27:36	7684.07	2086.09
MAX_LOG_SPEED	1797	16-Jun-2013 12:27:36	16-Jun-2013 12:30:40	2086.09	1992.08
MAX_LOG_SPEED	1800	16-Jun-2013 12:30:40	16-Jun-2013 12:32:43	1992.08	1931.72
MAX_LOG_SPEED	1720	16-Jun-2013 12:32:43	16-Jun-2013 12:34:45	1931.72	1869.48
MAX_LOG_SPEED	1800	16-Jun-2013 12:34:45	16-Jun-2013 12:57:43	1869.48	927.84
MAX_TOOL_SPEED	1754	16-Jun-2013 08:55:12	16-Jun-2013 09:00:17	8154.18	8061.02
MAX_TOOL_SPEED	1883	16-Jun-2013 09:00:17	16-Jun-2013 09:02:20	8061.02	8006.69
MAX_TOOL_SPEED	1704	16-Jun-2013 09:02:20	16-Jun-2013 09:04:23	8006.69	7952.66
MAX_TOOL_SPEED	1812	16-Jun-2013 09:04:23	16-Jun-2013 09:09:30	7952.66	7817.98
MAX_TOOL_SPEED	1714	16-Jun-2013 09:09:30	16-Jun-2013 09:14:37	7817.98	7684.07
MAX_TOOL_SPEED	1843	16-Jun-2013 09:14:37	16-Jun-2013 09:17:41	7684.07	7604.22
MAX_TOOL_SPEED	1937	16-Jun-2013 09:17:41	16-Jun-2013 11:45:44	7604.22	3336.88
MAX_TOOL_SPEED	2049	16-Jun-2013 11:45:44	16-Jun-2013 11:50:51	3336.88	3185.68
MAX_TOOL_SPEED	1922	16-Jun-2013 11:50:51	16-Jun-2013 12:10:15	3185.68	2611.53
MAX_TOOL_SPEED	2023	16-Jun-2013 12:10:15	16-Jun-2013 12:22:29	2611.53	2242.69
MAX_TOOL_SPEED	1919	16-Jun-2013 12:22:29	16-Jun-2013 12:27:36	2242.69	2086.09
MAX_TOOL_SPEED	1797	16-Jun-2013 12:27:36	16-Jun-2013 12:30:40	2086.09	1992.08
MAX_TOOL_SPEED	1908	16-Jun-2013 12:30:40	16-Jun-2013 12:32:43	1992.08	1931.72
MAX_TOOL_SPEED	1720	16-Jun-2013 12:32:43	16-Jun-2013 12:34:45	1931.72	1869.48
MAX_TOOL_SPEED	1855	16-Jun-2013 12:34:45	16-Jun-2013 12:38:51	1869.48	1724.06

MAX_TOOL_SPEED	1952	16-Jun-2013 12:38:51	16-Jun-2013 12:48:03	1724.06	1337.27
MAX_TOOL_SPEED	1853	16-Jun-2013 12:48:03	16-Jun-2013 12:57:43	1337.27	927.84

All depth are at tool zero.

Calibration Report

HGNS-H (HILT Gamma-Ray and Neutron Sonde, 150 degC) Calibration - Run 1

Primary Equipment :

HILT Gamma-Ray and Neutron Sonde, 150 degC	HGNS-H	4810

Auxiliary Equipment :

HGNS Accelerometer, 150 degC	HACCZ-H	5955
AmBe Neutron Logging Source	NSR-F	5215

Calibration Parameter :

Water Temperature	
Housing Size	
JIG-BKG (Jig minus background reference)	165

HGNS Accelerometer Calibration - Accelerometer Accumulations

Before (Measured): 06:54:31 16-Jun-2013

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
AZ Vertical Measurement	ft/s2	Before	32.2	31.5	32.0	32.8

HGNS Accelerometer EEPROM - Accelerometer EEPROM Read

Master (EEPROM): 00:00:00 15-Jan-2007

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Accelerometer Manufacturer		Master			QAT_160	
Accelerometer Reference Temperature	degF	Master		30.2	77.0	122.0
Accelerometer Coefficients - 0		Master	-----	-----	1155.700	-----
Accelerometer Coefficients - 1		Master	-----	-----	26.890	-----
Accelerometer Coefficients - 2		Master	-----	-----	-0.008	-----
Accelerometer Coefficients - 3		Master	-----	-----	0.000	-----
Accelerometer Coefficients - 4		Master	-----	-----	2.748	-----
Accelerometer Coefficients - 5		Master	-----	-----	0.000	-----
Accelerometer Coefficients - 6		Master	-----	-----	0.000	-----
Accelerometer Coefficients - 7		Master	-----	-----	0.000	-----
Accelerometer Coefficients - 8		Master	-----	-----	298.600	-----
Accelerometer Coefficients - 9		Master	-----	-----	0.983	-----

HGNS Neutron Calibration - HGNS Neutron Accumulations

Master (EEPROM): 11:01:24 28-Mar-2013 Before (Measured): 23:14:29 15-Jun-2013 After:

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Near Zero Measurement	1/s	Master	0	5.0	24.4	40.0
		Before	0	5.0	25.8	40.0
		After	-----	-----	-----	-----
		Before-Master	-----	-3.7	1.4	3.7
		After-Before	-----	-----	-----	-----
Far Zero Measurement	1/s	Master	0	5.0	27.4	40.0
		Before	0	5.0	27.6	40.0
		After	-----	-----	-----	-----
		Before-Master	-----	-4.1	0.2	4.1
		After-Before	-----	-----	-----	-----
Near Plus Measurement - 0	1/s	Master	6031.0	4700.0	5254.0	6900.0
		Before	-----	-----	-----	-----
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-----	-----
		After-Before	-----	-----	-----	-----
Far Plus Measurement - 0	1/s	Master	2793.0	1900.0	2183.0	2900.0
		Before	-----	-----	-----	-----
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-----	-----
		After-Before	-----	-----	-----	-----
Near Corrected Plus Measurement - 0	1/s	Master		4700.0	5342.0	6900.0

		Before	-----	-----	-----	-----
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-----	-----
		After-Before	-----	-----	-----	-----
Far Corrected Plus Measurement - 0	1/s	Master		1900.0	2227.0	2900.0
		Before	-----	-----	-----	-----
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-----	-----
		After-Before	-----	-----	-----	-----

HGNS Gamma-Ray Calibration - Gamma-Ray Accumulations

Before (Measured): 23:21:49 15-Jun-2013 After:

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
RGR Zero Measurement	gAPI	Before	30.0	0	74.4	120.0
		After	-----	-----	-----	-----
		After-Before	-----	-----	-----	-----
RGR Plus Measurement	gAPI	Before	185.4	157.1	165.9	206.3
		After			NOT DONE	
		After-Before	-----	-----	-----	-----
GR Calibration Gain		Before	0.89	0.80	0.99	1.05
		After	-----	-----	-----	-----
		After-Before	-----	-----	-----	-----

Company: Conoco Phillips Company

Schlumberger

Well: Tebo 33 1P

Field: Wildcat

County: Arapahoe

State: Colorado

Sonic Scanner

P&S