

Company: Alta Mesa Services

Well: Kauffman 1-34

Field: Willow

County: Payette State: Idaho

Location: **Platform Express**
Combo Print
ZAIT-BHC-TLD-CNL-SGR

Permanent Datum: _____ Log Measured From: _____ Drilling Measured From: _____ API Serial No. 11-075-20024	Ground Level: _____ Kelly Bushing: _____ Kelly Bushing: _____ Section: _____ Township: _____ Range: _____
Elev.: K.B. 2498.00 ft G.L. 2484.00 ft D.F. 2498.00 ft	Elev.: 14.00 ft above Perm. Datum

Company: Alta Mesa Services
 Logging Date: 03-Aug-2014
 Run Number: ONE
 Depth Driller: 5800.00 ft
 Schlumberger Depth: 5801.00 ft
 Bottom Log Interval: 5801.00 ft
 Top Log Interval: 1124.00 ft
 Casing Driller Size @ Depth: 9.628 in @ 1127.00 ft
 Casing Schlumberger: 1124 ft
 Bit Size: 8.75 in
 Type Fluid: Oil
 MUD
 Density: 9.3 lbm/gal
 Viscosity: 44 s
 Fluid Loss: 6 cm3
 PH: _____
 Source of Sample: _____
 RM @ Meas Temp: N/A
 RMF @ Meas Temp: N/A
 RMC @ Meas Temp: N/A
 Source RMC: N/A
 RM @ BHT: N/A
 RMF @ BHT: N/A
 Max Recorded Temperatures: 242.5 degF
 Circulation Stopped Time: 03-Aug-2014 14:00:00
 Logger on Bottom Time: 04-Aug-2014 12:03:47
 Unit Number: 2267 Location: Rock Springs
 Recorded By: Evan Meadows
 Witnessed By: Mike McMennamy

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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.

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11. ONE Main Pass - Triple Combo

11.1 Integration Summary

11.2 Software Version

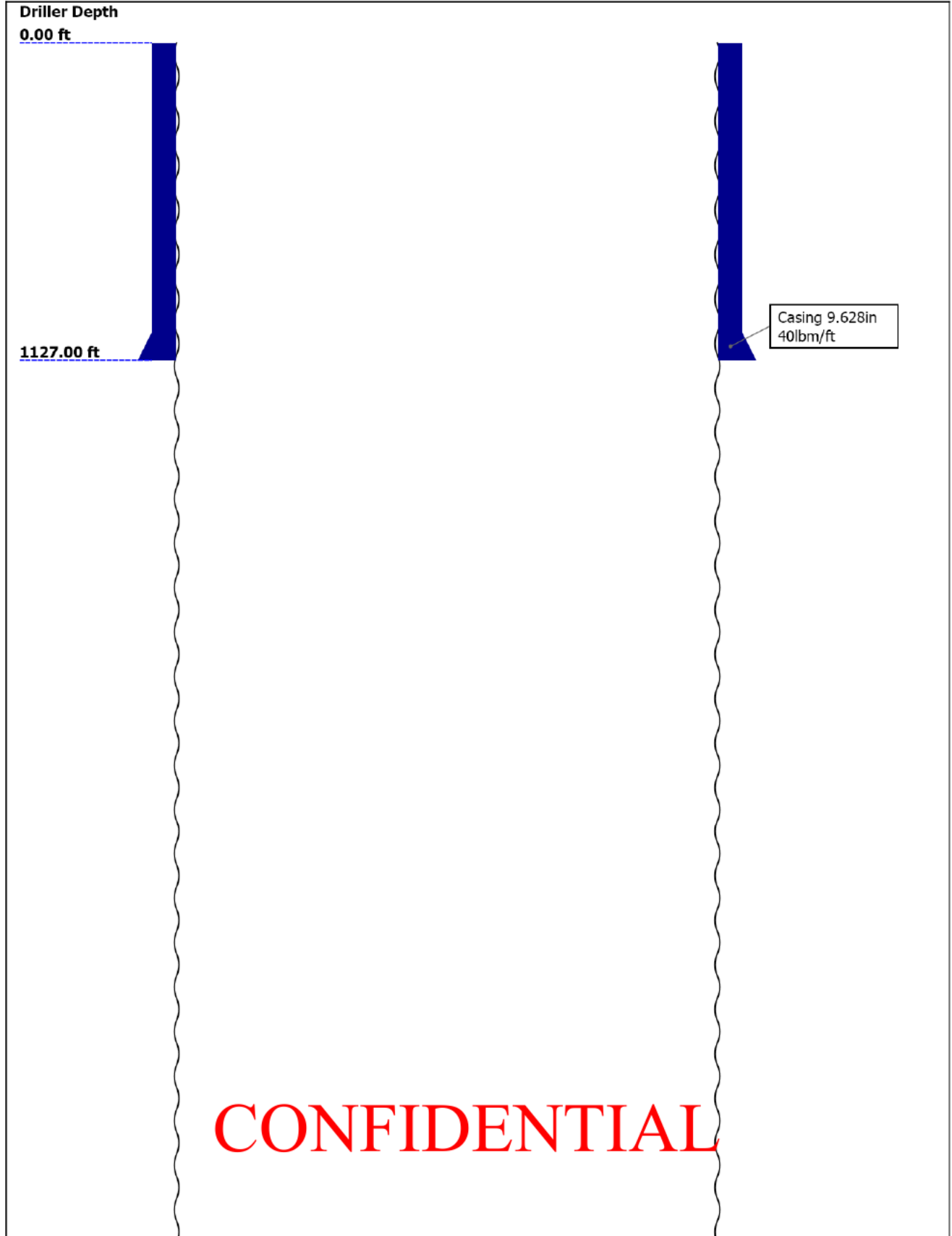
11.3 Composite Summary

11.4 Log (Combo_Fax)

11.5 Parameter Listing

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Well Sketch



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Open Hole 8.75in

5800.00 ft

Borehole Size/Casing/Tubing Record

Bit					
Bit Size (in)	8.75				
Top Driller (ft)	0				
Top Logger (ft)	0				
Bottom Driller (ft)	5800				
Bottom Logger (ft)	5801				
Casing					
Size (in)	9.628				
Weight (lbm/ft)	40				
Inner Diameter (in)	8.835				
Grade	N/A				
Top Driller (ft)	0				
Top Logger (ft)	0				
Bottom Driller (ft)	1127				
Bottom Logger (ft)	1124				

Operational Run Summary

Parameter (unit)	ONE				
Date Log Started	03-Aug-2014				
Time Log Started	22:20:34				
Date Log Finished	04-Aug-2014				
Time Log Finished	04:12:57				
Top Log Interval (ft)					
Bottom Log Interval (ft)					
Total Depth (ft)	5801.00				
Max Hole Deviation (deg)					
Azimuth of Max Deviation (deg)					
Bit Size (in)	8.750				
Logging Unit Number	2267				
Logging Unit Location	Rock Springs				
Recorded By	Evan Meadows				
Witnessed By	Mike McMennamy				

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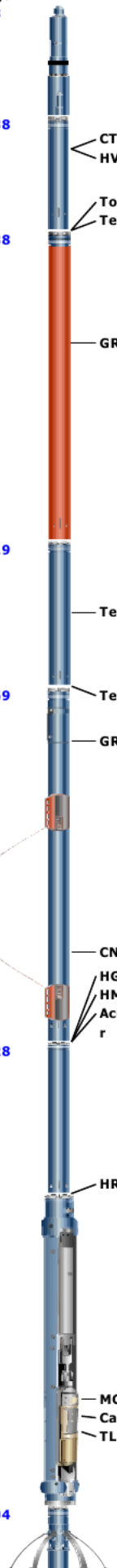
Remarks and Equipment Summary

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ONE: Toolstring

ONE: Remarks

Equip name	Length	MP name	Offset
LEH-QT:2672 LEH-QT:2672	79.3		
DTC-H ECH-KC:10413 DTC-H	76.38	CTEM HV	75.48 0.00
HNGS-BA:169 HEH-K:186 HNGS-BA:169	73.38	ToolStatus TelStatus GR	73.38 73.38 70.39
HNGC-B:605 HNGH-A:4089 HNGC-B:605	65.19	Tel Status	63.44
HGNS-H:2786 HGNH:3770 NSR-F:1320 NPV-N HMCA-H HACCZ-H:5828 HGNS-H:2786	61.69	Temperature GR	61.66 60.95
HDRS-H ECH-MEB HRCC-H HRMS-H Backscatter GSR-J:5233 Short Spacing:277 27 Long Spacing:286 42 HRGD-H:4700 GPV-Q	52.28	CNL Porosity HGNS HMCA Acceleromete r HRCC	54.61 52.28 52.28 0.00 48.28
DSL T-H:8181 ECH-KH:8232 DSL C-H:8181 SLS-E:1294	40.04	MCFL Caliper TLD Density	42.85 42.36 41.37



1. THIS IS THE FIRST RUN IN HOLE.
2. TOOL RAN AS PER TOOL SKETCH.
3. NEUTRON CORRECTIONS: BOREHOLE (BS), STANDOFF (0.125"), PRESSURE/TEMPERATURE
4. MATRIX: SANDSTONE
MDEN: 2.65 G/ML
FD: 1.0 G/ML
5. WASHOUTS ADVERSELY AFFECT LOGS.
6. TD: 5,801'
CSG: 1,124'
7. CALIPER CHECK IN CSG READS 8.237" AFTER CALI_SHIFT OF 0.23"

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CBL 3ft 27.57
 Upper-Near 27.57
 VDL 5ft 26.57
 Upper-Far 26.57
 Delta-T 25.19
 Lower-Far 23.82
 Lower-Near 22.82
 SLS-E 19.4

ZAIT-E:99 19.4
 AZIS:99
 AZRM:99

Induction 8.12
 Temperature 8.12
 Power Supply 8.12

SP 0.08
 Mud Resistivity 0.00
 Head Tension
 TOOL_ZERO

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

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Depth Summary

ONE

Depth Measuring Device

Type	IDW-B		
Serial Number	6480		
Calibration Date	15-MAY-2014		
Calibrator Serial Number			
Calibration Cable Type			
Wheel Correction 1	-9		
Wheel Correction 2	-7		

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Tension Device			
Type	CMTD-B/A		
Serial Number	5069		
Calibration Date	08-JUL-2014		
Calibrator Serial Number	88310		
Number of Calibration Points	0		

Logging Cable			
Type	7-48AI-XXS		
Serial Number	F713226		
Length	19000.00 ft		
Conveyance Type	Wireline		
Rig Type	Double		

ONE:Depth Control Parameters		Depth Control Remarks	
Log Sequence	First Log In the Well	1. ALL SCHLUMBERGER DEPTH CONTROL PROCEDURES WERE FOLLOWED DURING LOGGING OPERATIONS.	
Rig Up Length At Surface		2. IDW USED AS PRIMARY DEPTH CONTROL.	
Rig Up Length At Bottom		3. Z CHART USED AS SECONDARY DEPTH CONTROL..	
Rig Up Length Correction		6. TD: 5,801'	
Stretch Correction	1.30 ft	CSG: 1,124'	
Tool Zero Check At Surface		5. STRETCH CORRECTION: 1.3'	

ONE

Main Pass - Induction

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Main[4]:Up	Up	1079.24 ft	5811.97 ft	04-Aug-2014 12:35:16 AM	04-Aug-2014 3:17:12 AM	ON	-0.68 ft	No

All depths are referenced to toolstring zero

Log	Company:Alta Mesa Services Well:Kauffman 1-34 ONE: Main[4]:Up:S004
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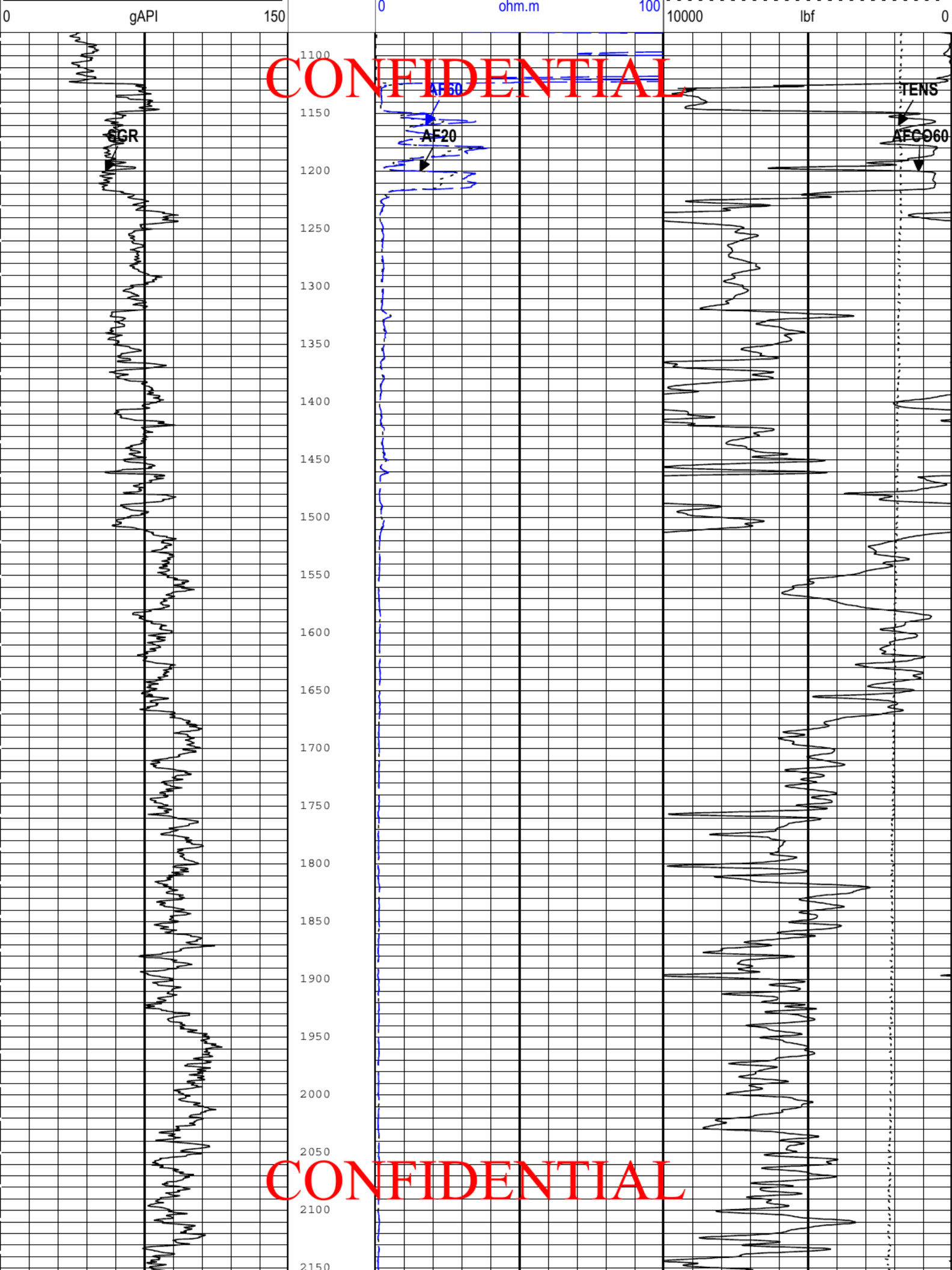
Description: Format: Log (AIT) Index Scale: 1 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 04-Aug-2014 04:20:39

Channel	Source	Sampling
AF20	ZAIT-E:AZIS:AZIS	3in
AF60	ZAIT-E:AZIS:AZIS	3in
AFCO60	ZAIT-E:AZIS:AZIS	3in
SGR	HNGS-BA:HNGS-BA:HNGS-BA	6in
TENS	WLWorkflow	6in
TIME_1900	WLWorkflow	0.1in

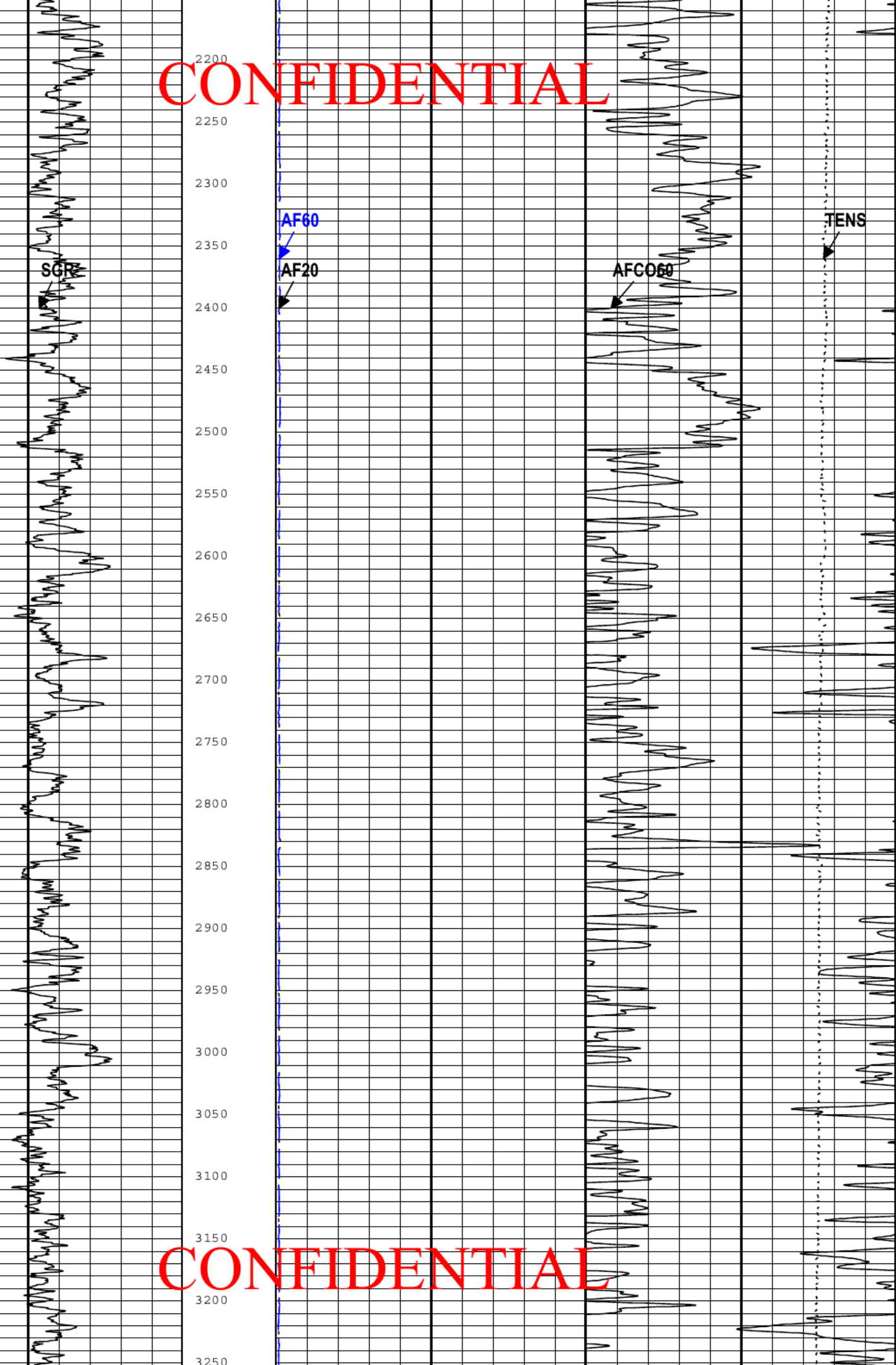
TIME_1900 - Time Marked every 60.00 (s)

	<p style="color: blue;">Array Induction Four Foot Resistivity A20 (AF20) ZAIT-E</p> <p style="color: blue;">Array Induction Four Foot Resistivity A60 (AF60) ZAIT-E</p>	<p style="color: blue;">Array Induction Four Foot Conductivity A60 (AFCO60) ZAIT-E</p>
Spectroscopy Gamma Ray (SGR) HNGS-BA	500	mS/m
		Cable Tension (TENS)

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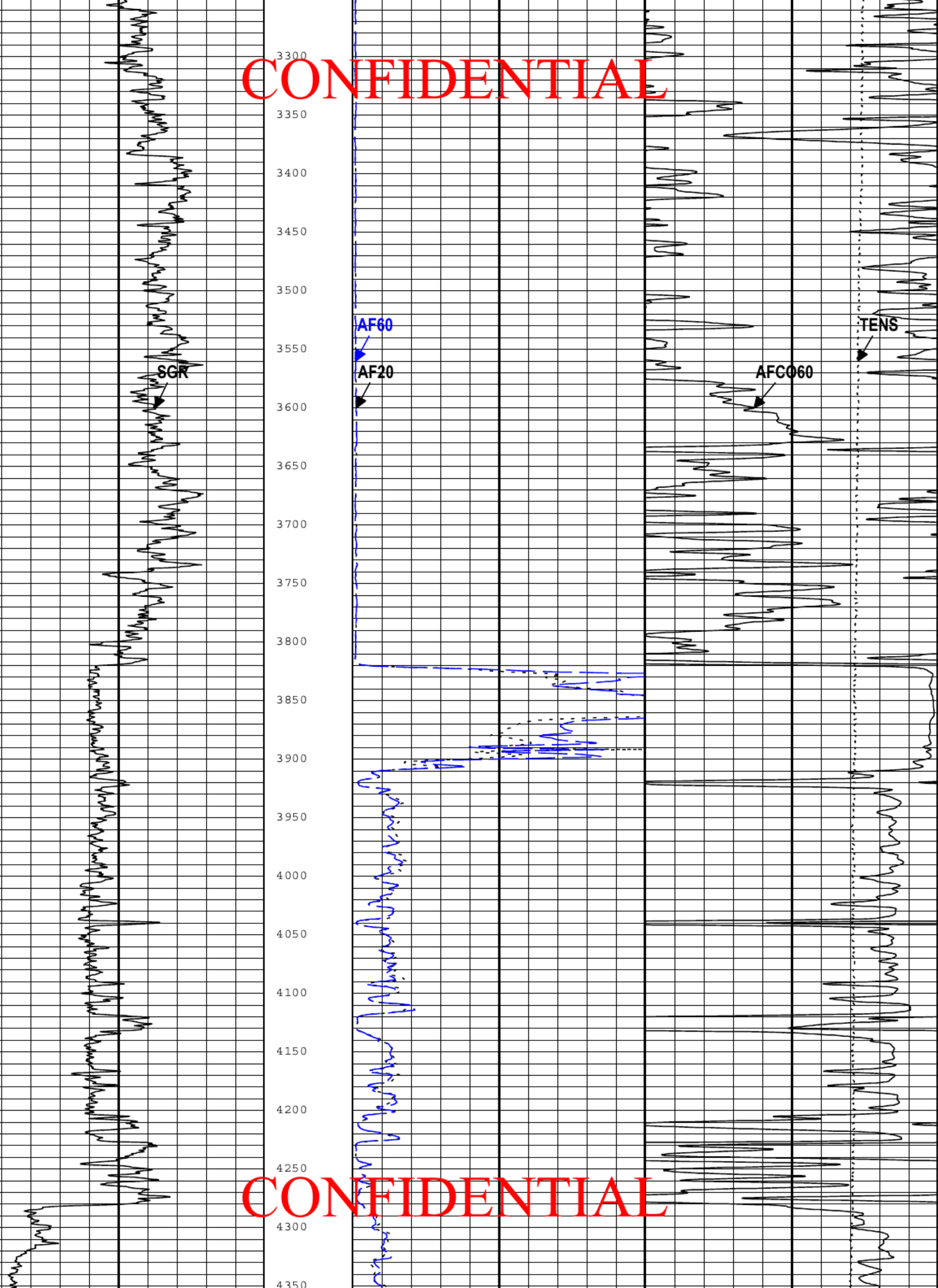


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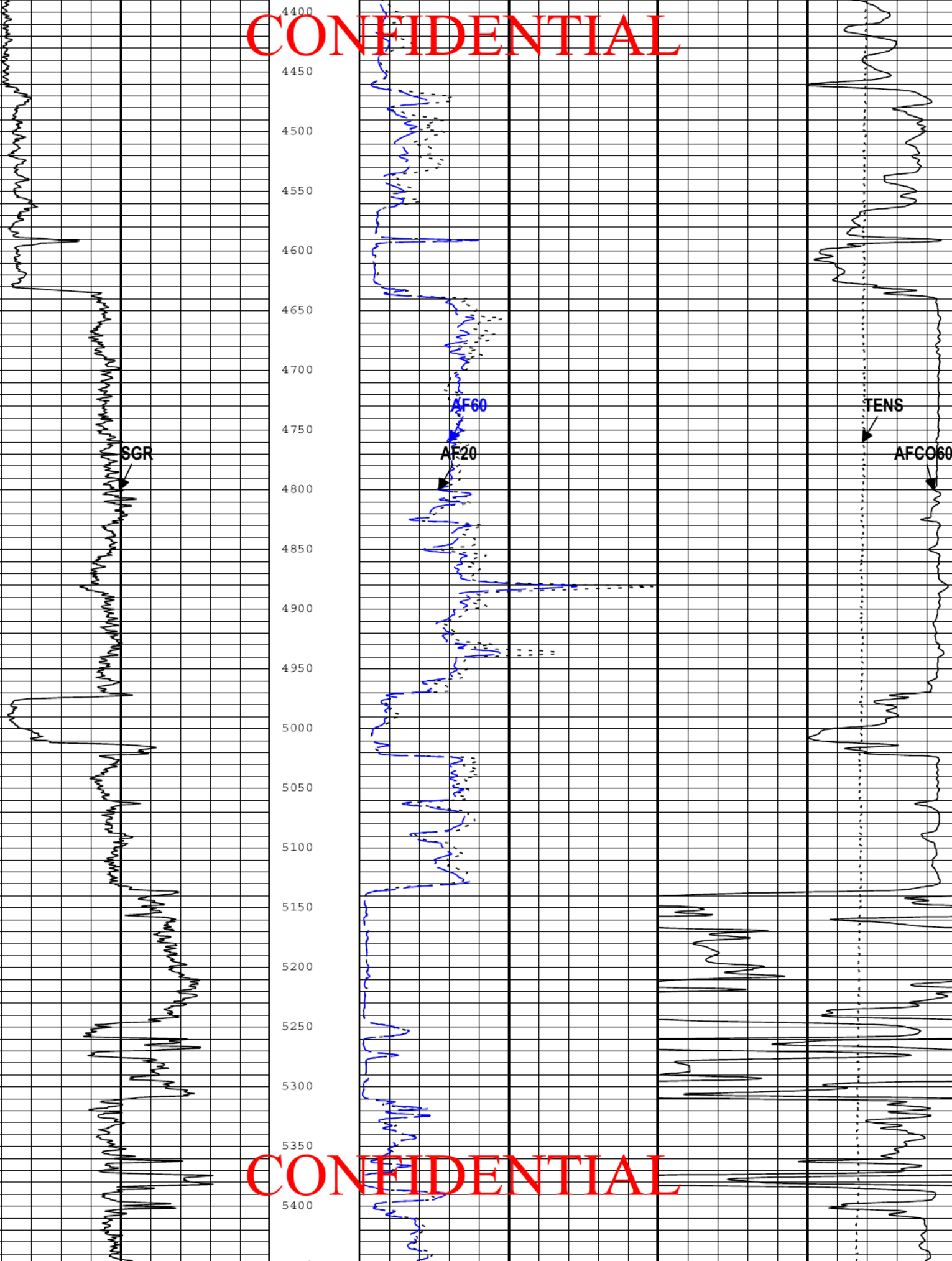
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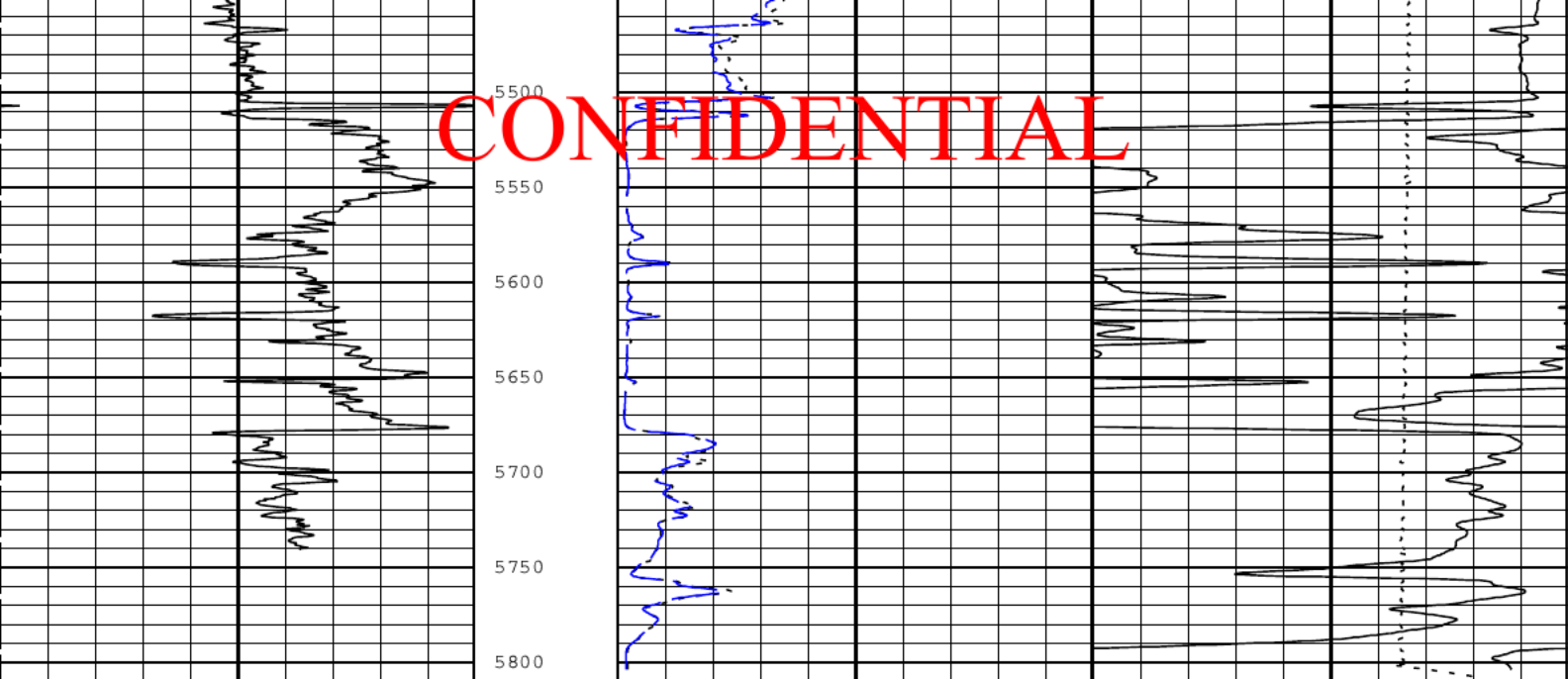
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Spectroscopy Gamma Ray (SGR) HNGS-BA
0 gAPI 150

Array Induction Four Foot Resistivity A20 (AF20) ZAIT-E
0 ohm.m 100

Array Induction Four Foot Conductivity A60 (AFCO60) ZAIT-E
500 mS/m 10000

Array Induction Four Foot Resistivity A60 (AF60) ZAIT-E
0 ohm.m 100

Cable Tension (TENS)
10000 lbf 0

TIME_1900 - Time Marked every 60.00 (s)

Description: Format: Log (AIT) Index Scale: 1 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 04-Aug-2014 04:20:39

ONE

Main Pass - Density

Software Version

Acquisition System		Version	
MaxWell		4.0.9163.3000	
Application Patch		Patch-SP-10767_18214-4.0.9163.3001	
Computation	Description	Version	
Borehole	Borehole Ensemble provides common Borehole Parameters and Channels	4.0.9433.3000	
Tool Elements	Description	Software Version	Firmware Version
HRCC-H	HILT High-Resolution Control Cartridge, 150 degC	4.0.9385.3000	2.0
HRGD-H	HILT Resistivity Gamma-Ray Density Device, 150 degC	4.0.9385.3000	3.0
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	Main[4]:Up	Up	1079.24 ft	5811.97 ft	04-Aug-2014 12:35:16 AM	04-Aug-2014 3:17:12 AM	ON	-0.68 ft	No

All depths are referenced to toolstring zero

Log

Company: Alta Mesa Services Well: Kauffman 1-34

ONE: Main[4]:Up:S004

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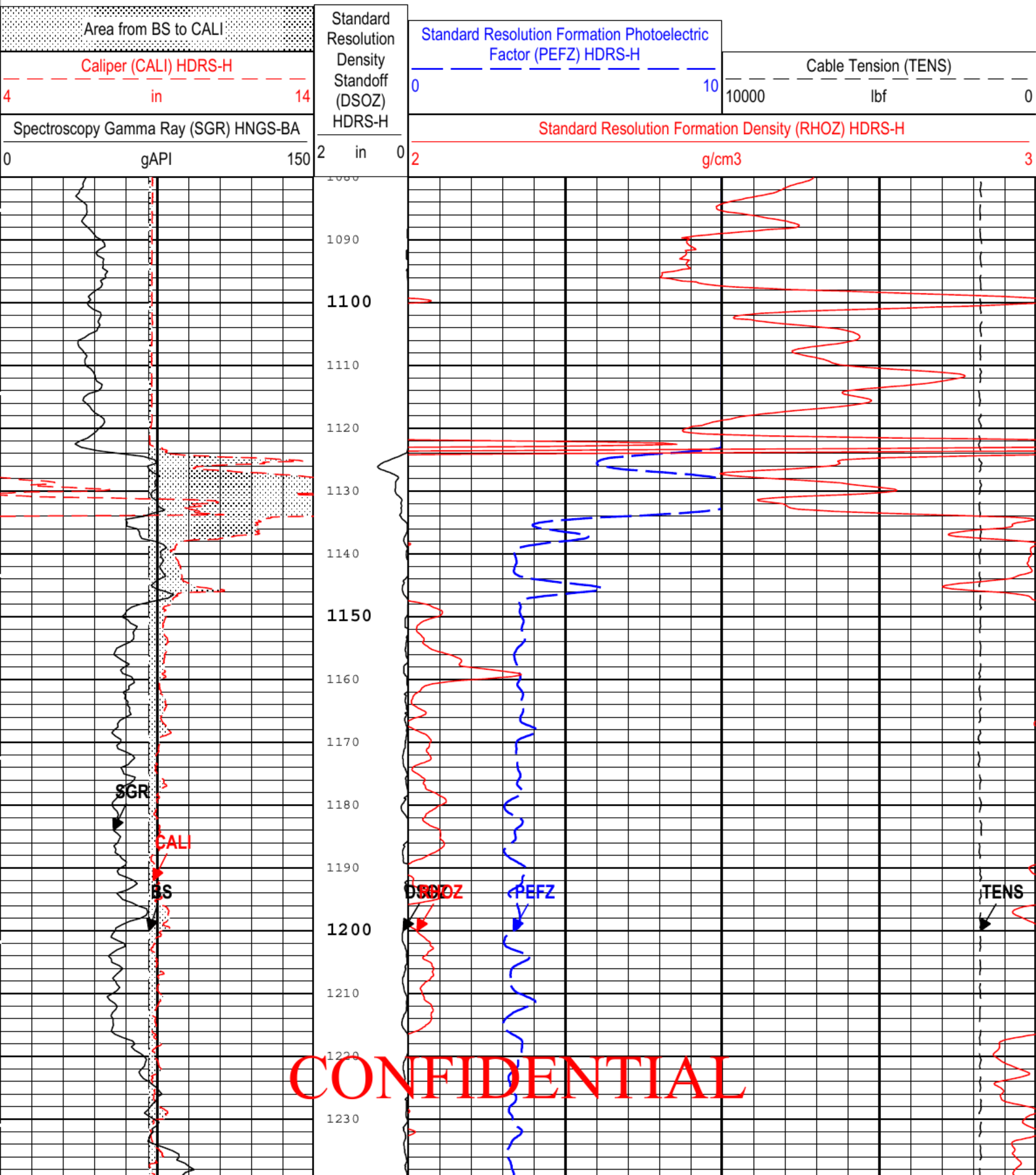
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Channel	Source	Sampling
BS	Borehole	6in
CALL	HDRS-H:HRCC-H:HRCC-H	1in

DZOZ	HDRS-H:HRMS-H:HRGD-H	2in
PEFZ	HDRS-H:HRMS-H:HRGD-H	2in
RHOZ	HDRS-H:HRMS-H:HRGD-H	2in
SGR	HNGS-BA:HNGS-BA:HNGS-BA	6in
TENS	WLWorkflow	6in
TIME_1900	WLWorkflow	0.1in

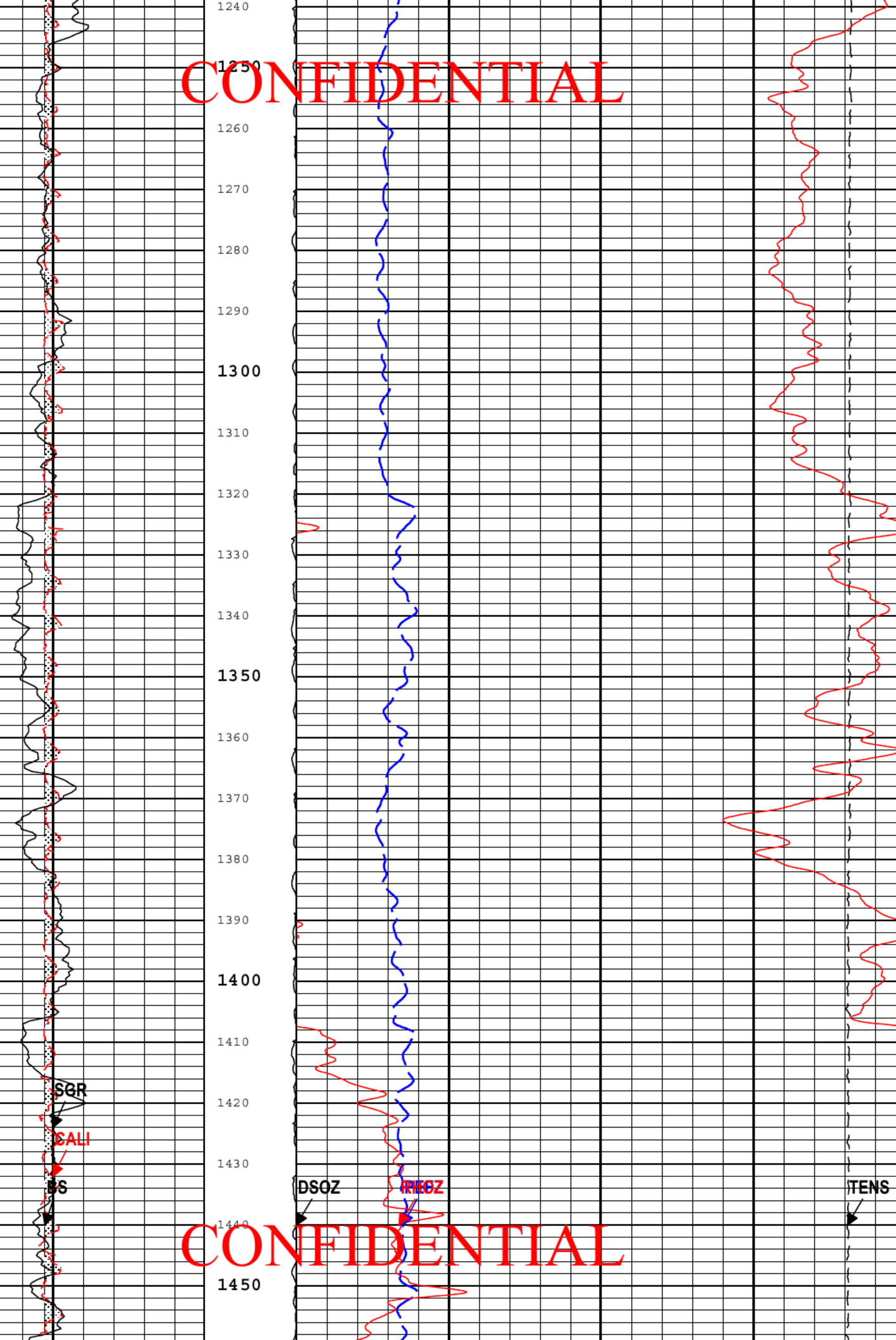
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TIME_1900 - Time Marked every 60.00 (s)



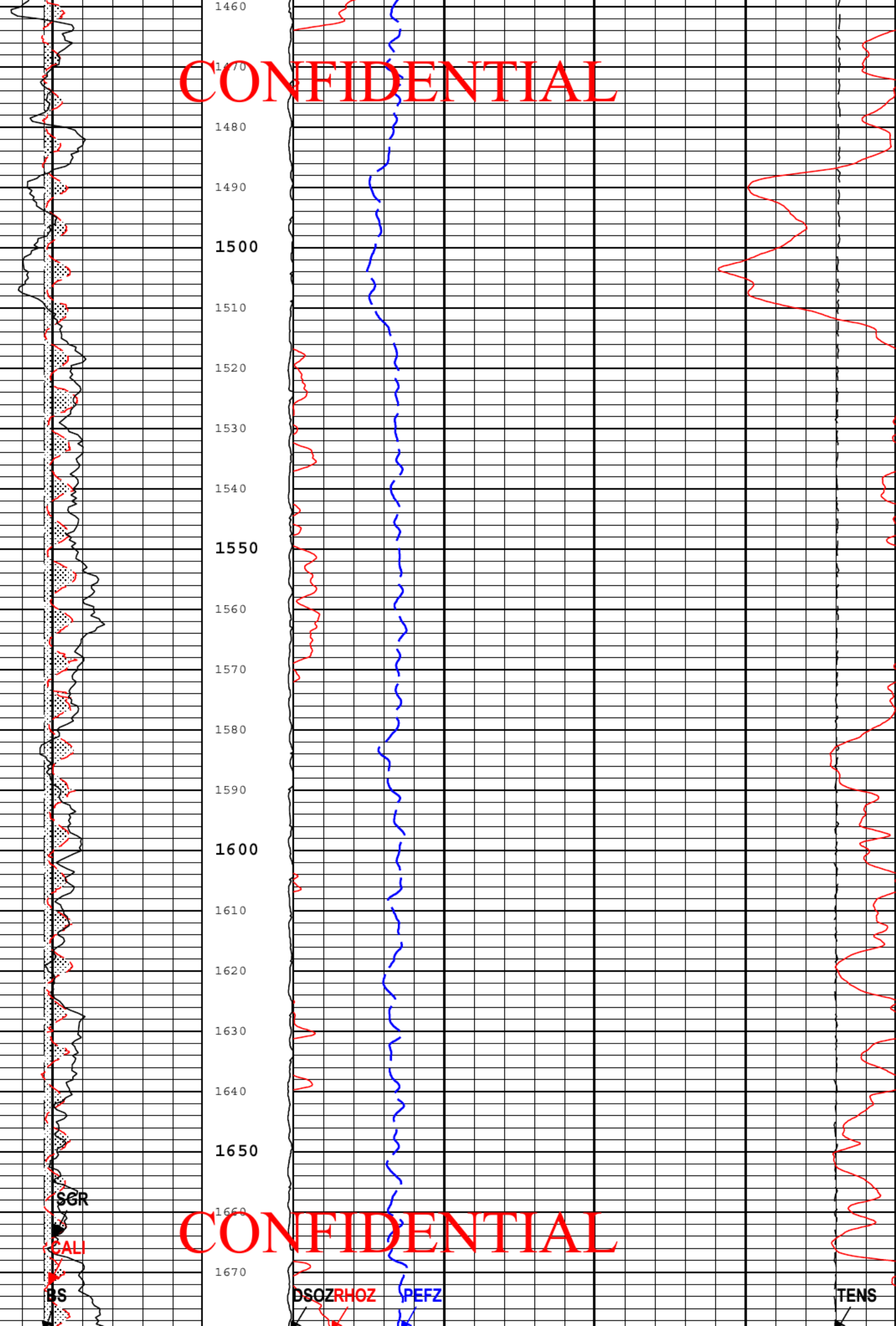
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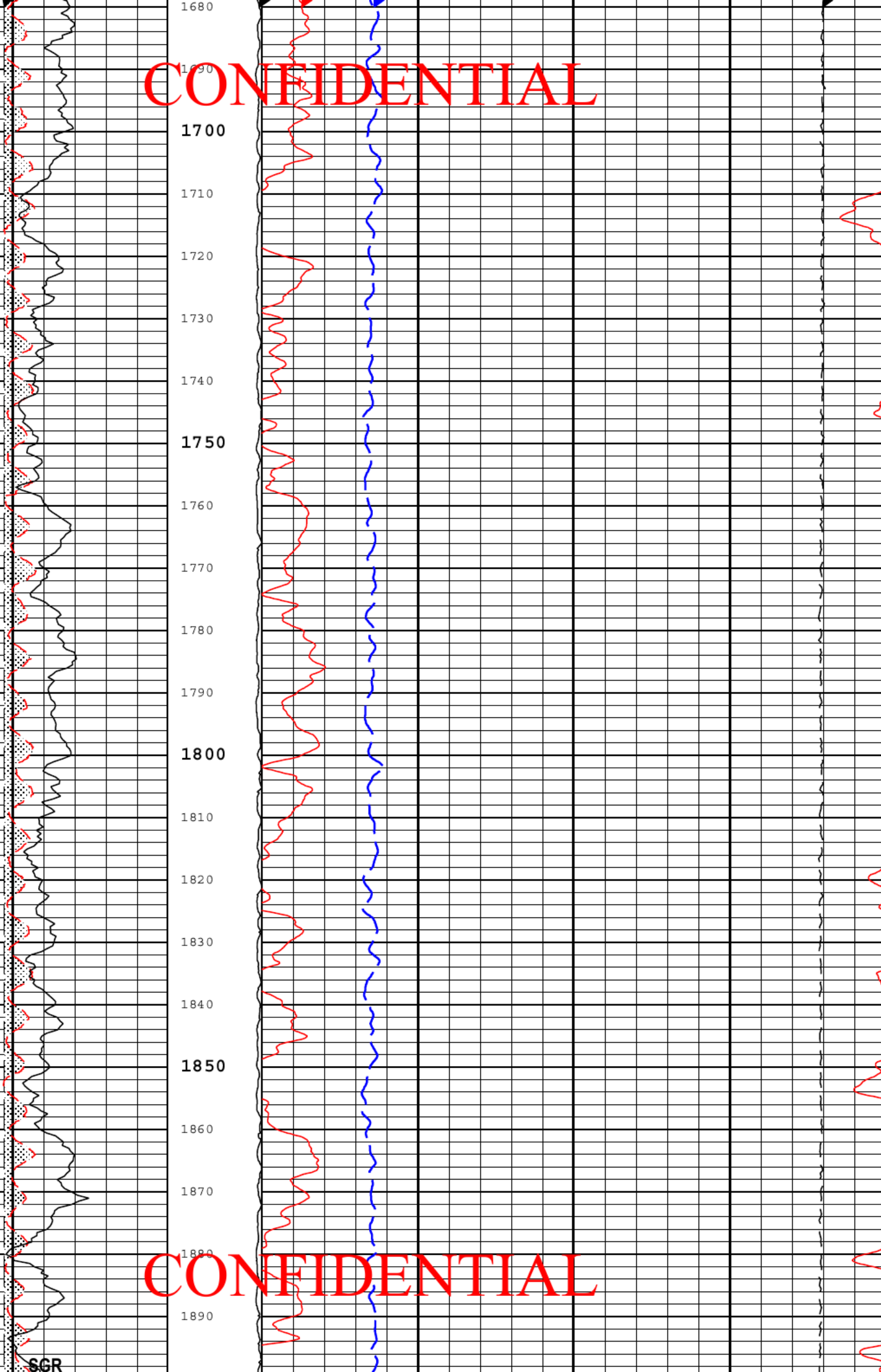
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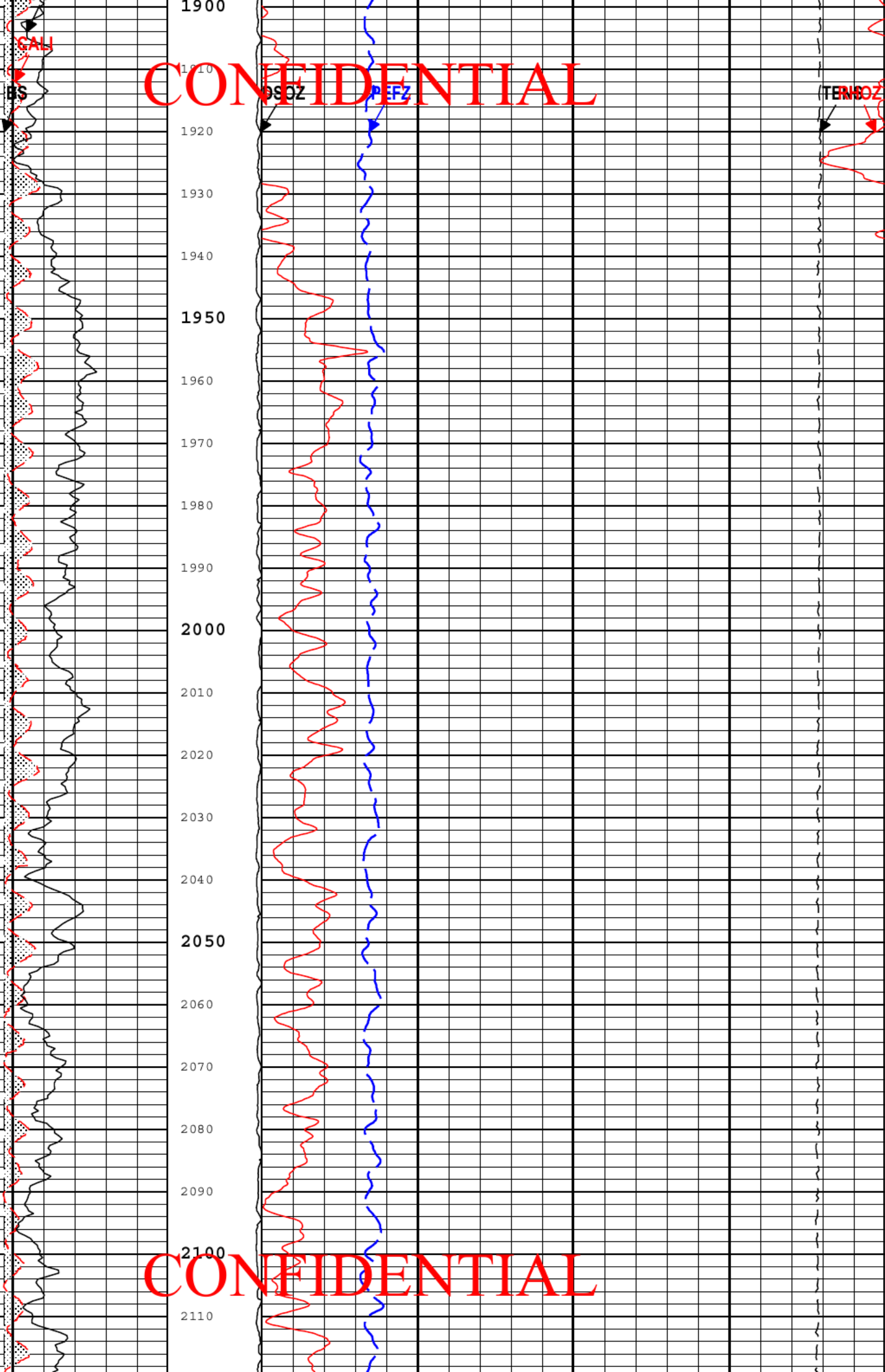


1680
1690
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SGR

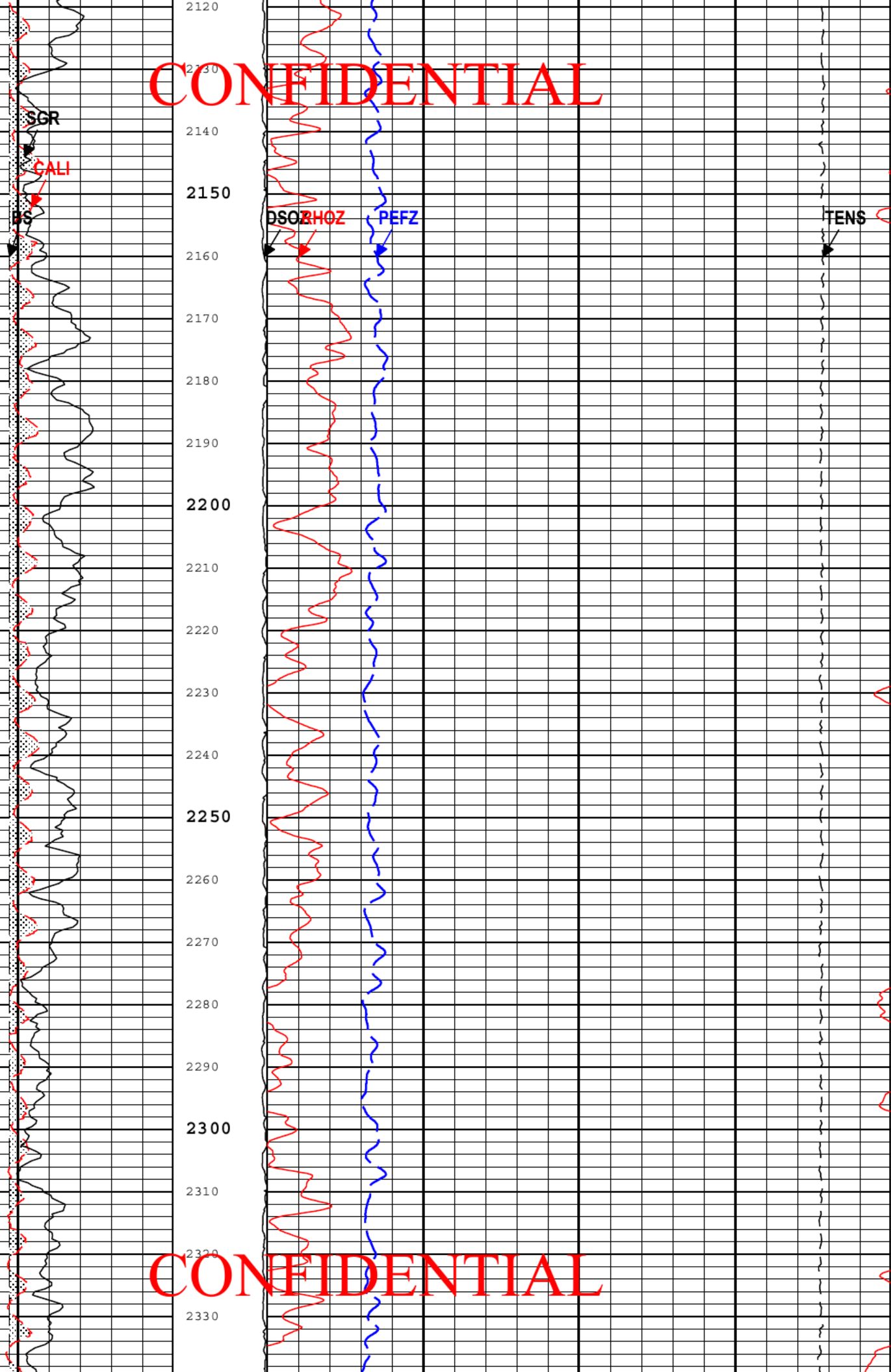
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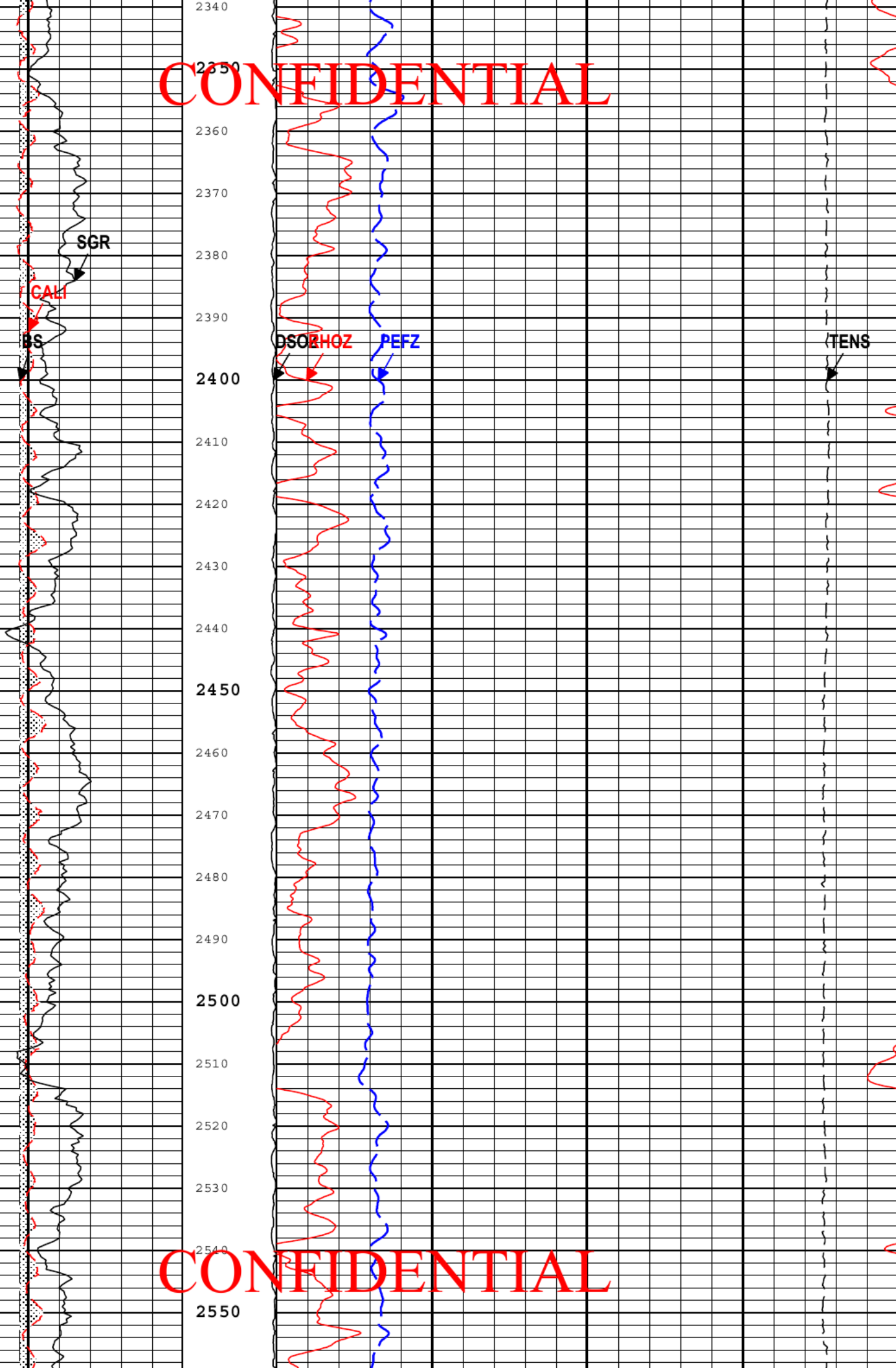
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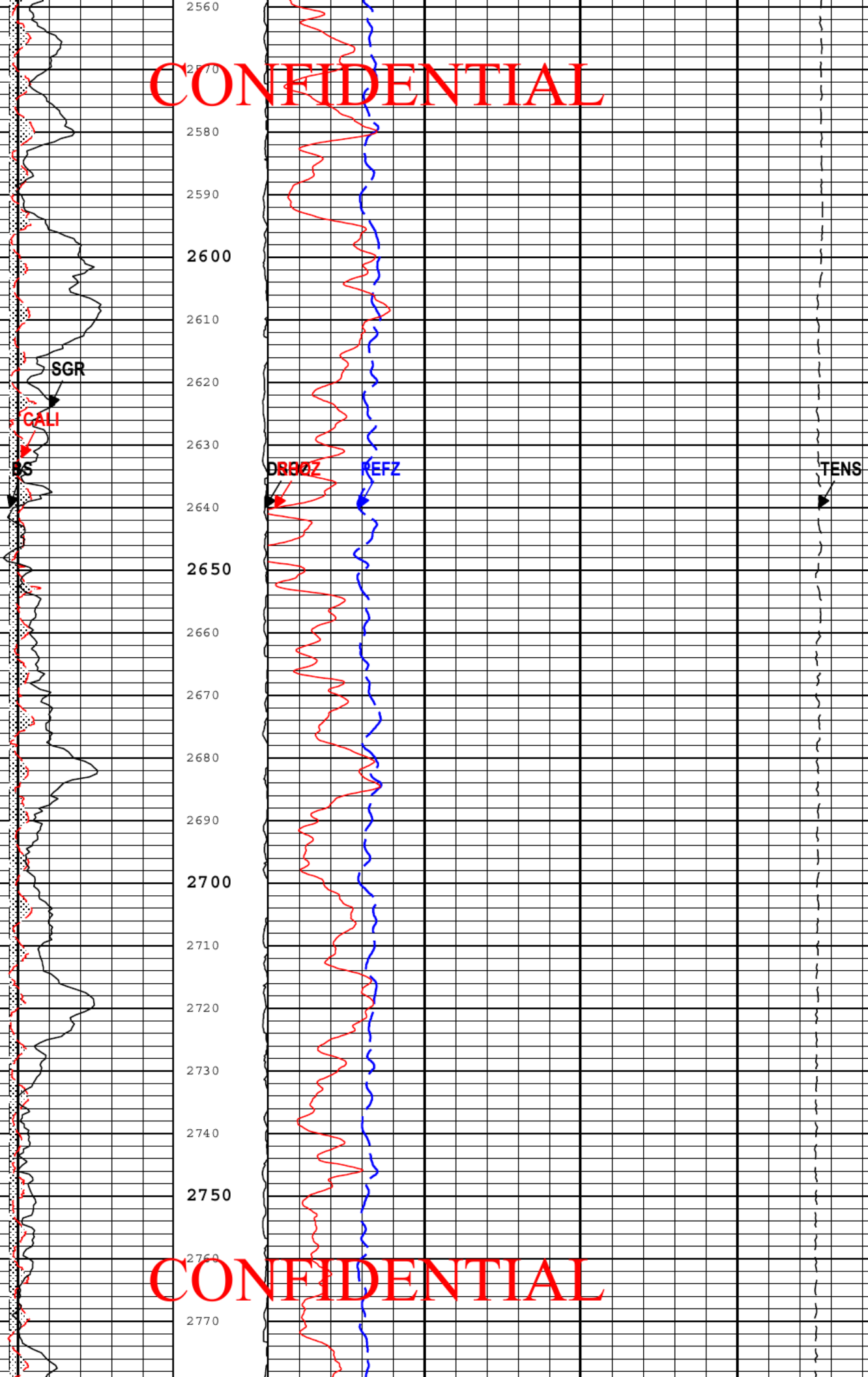
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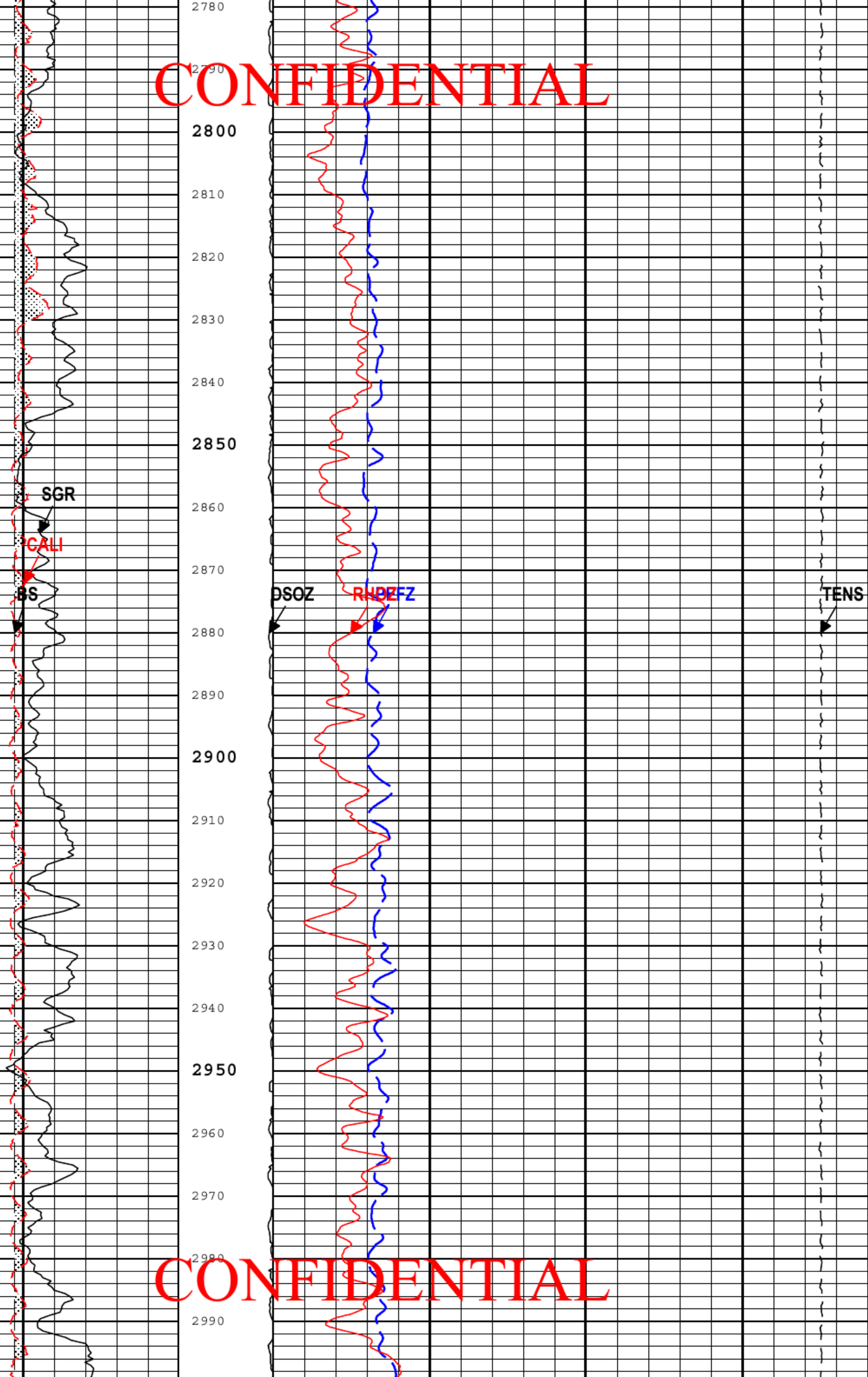
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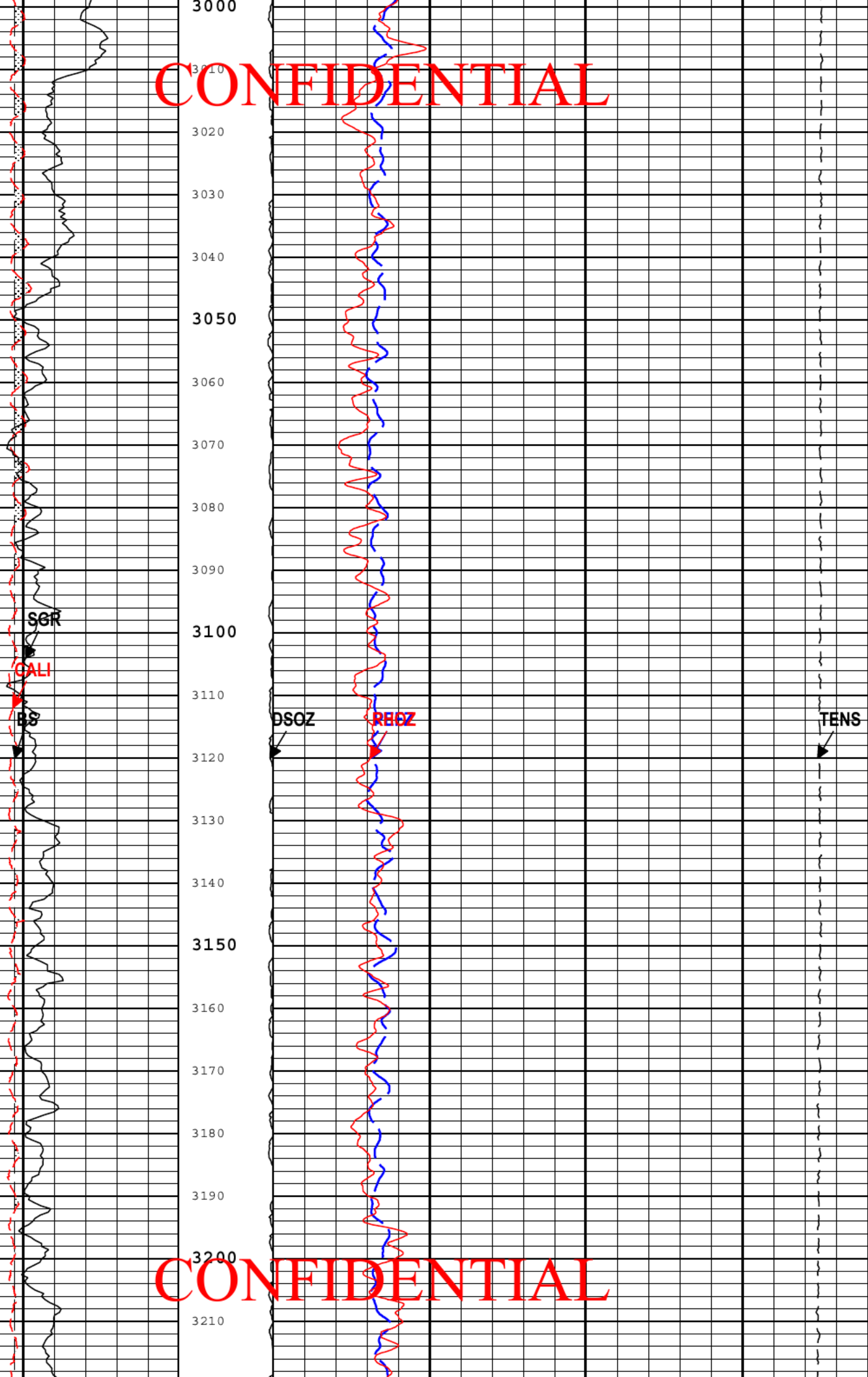
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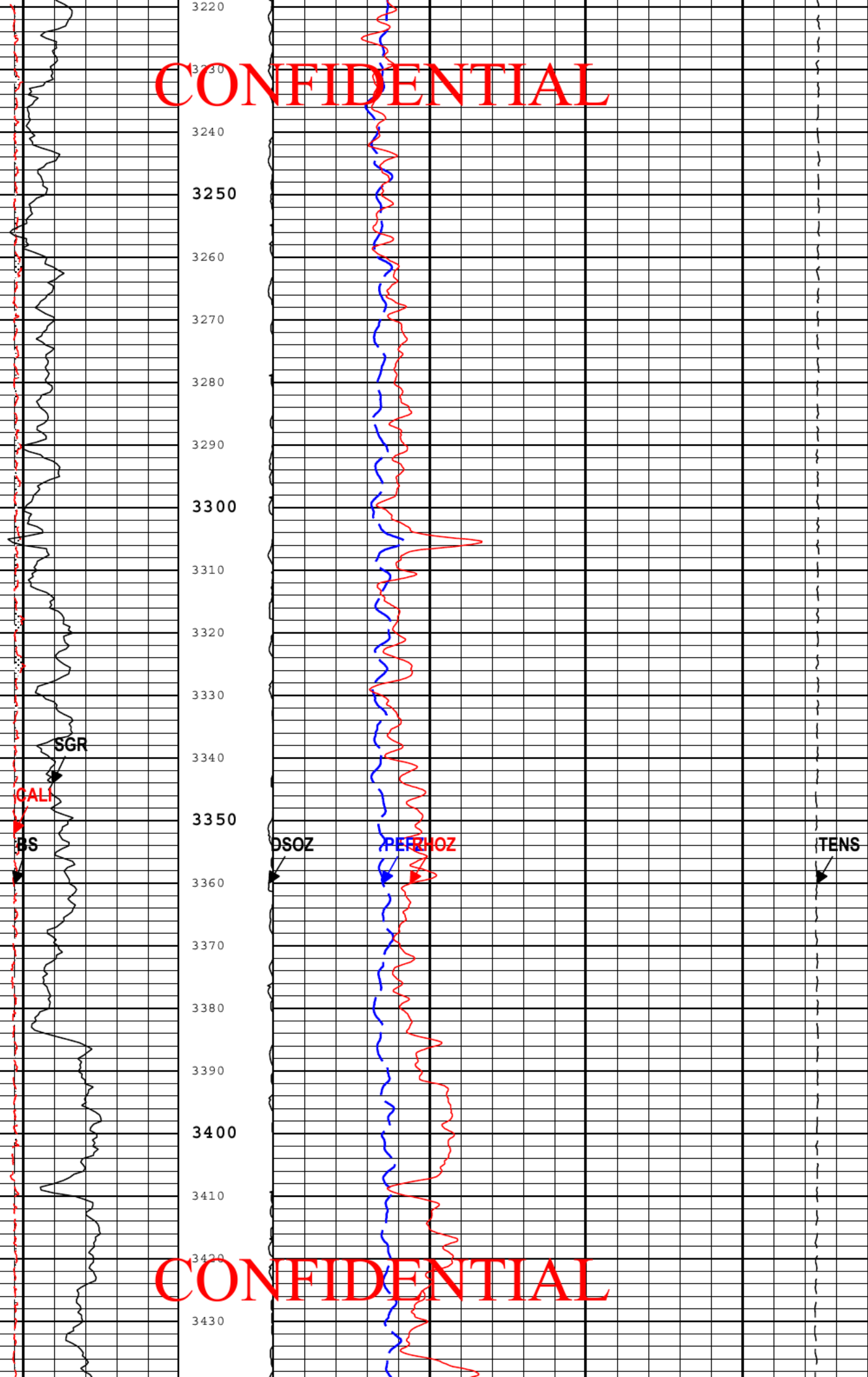
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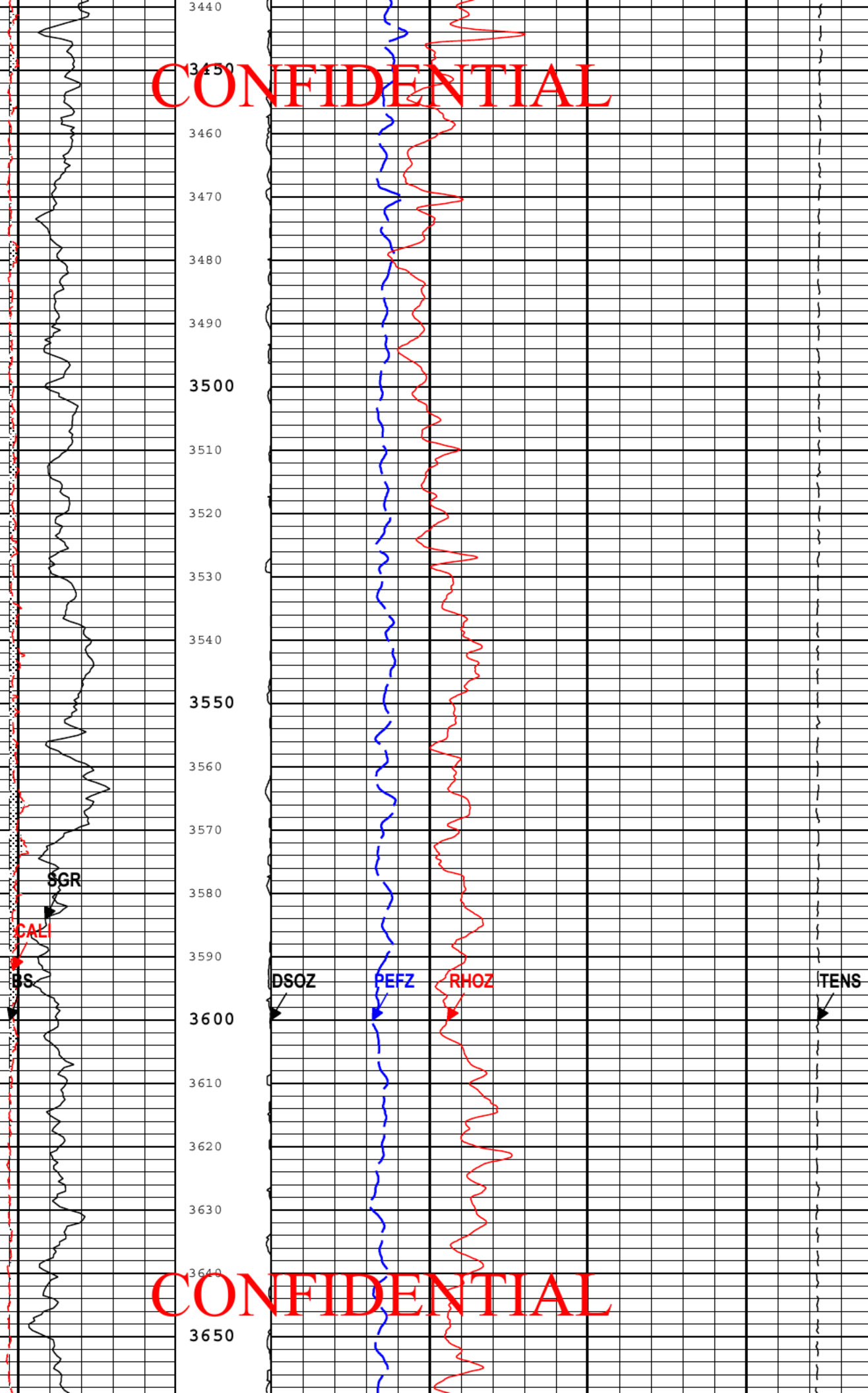
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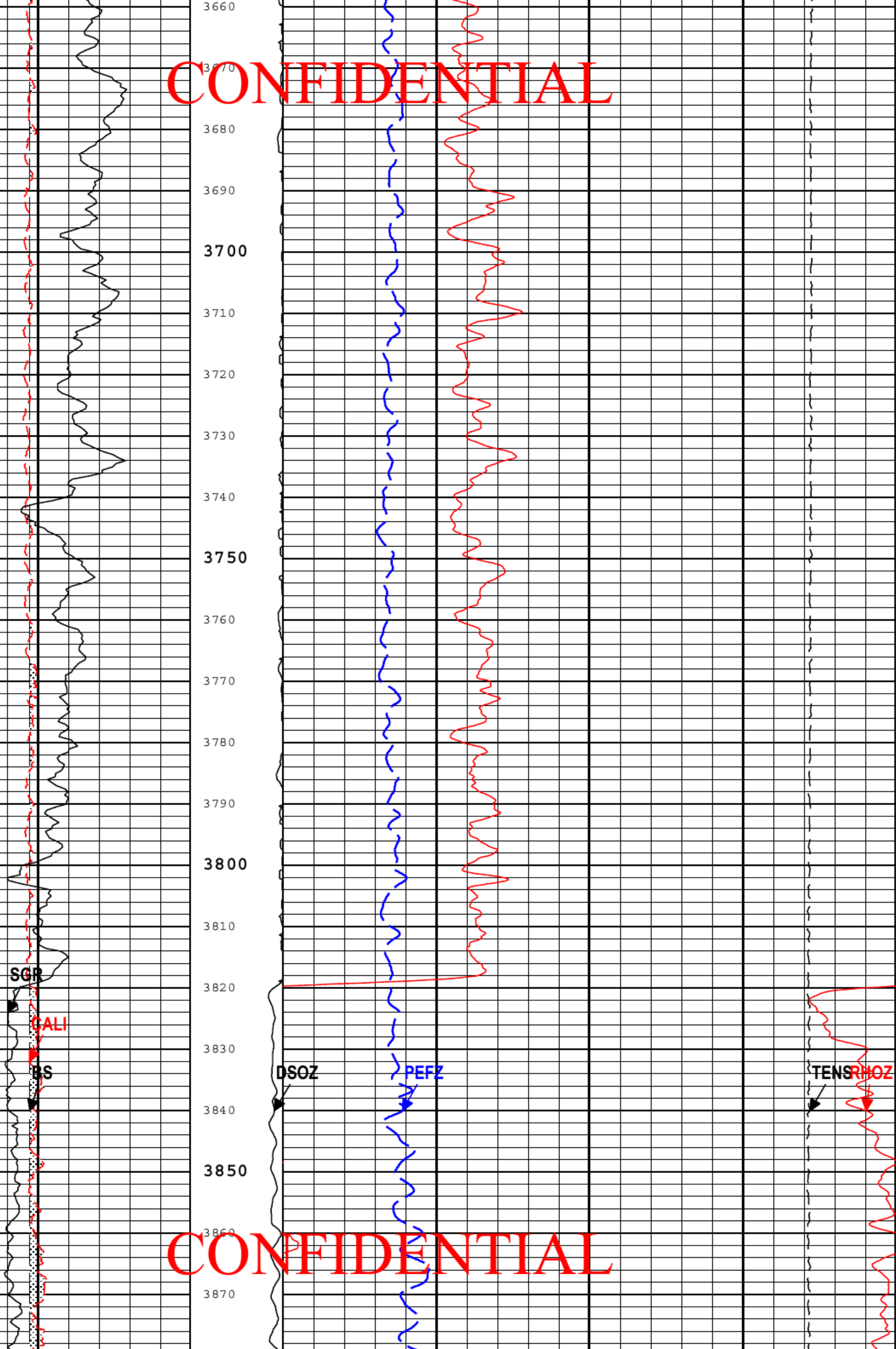
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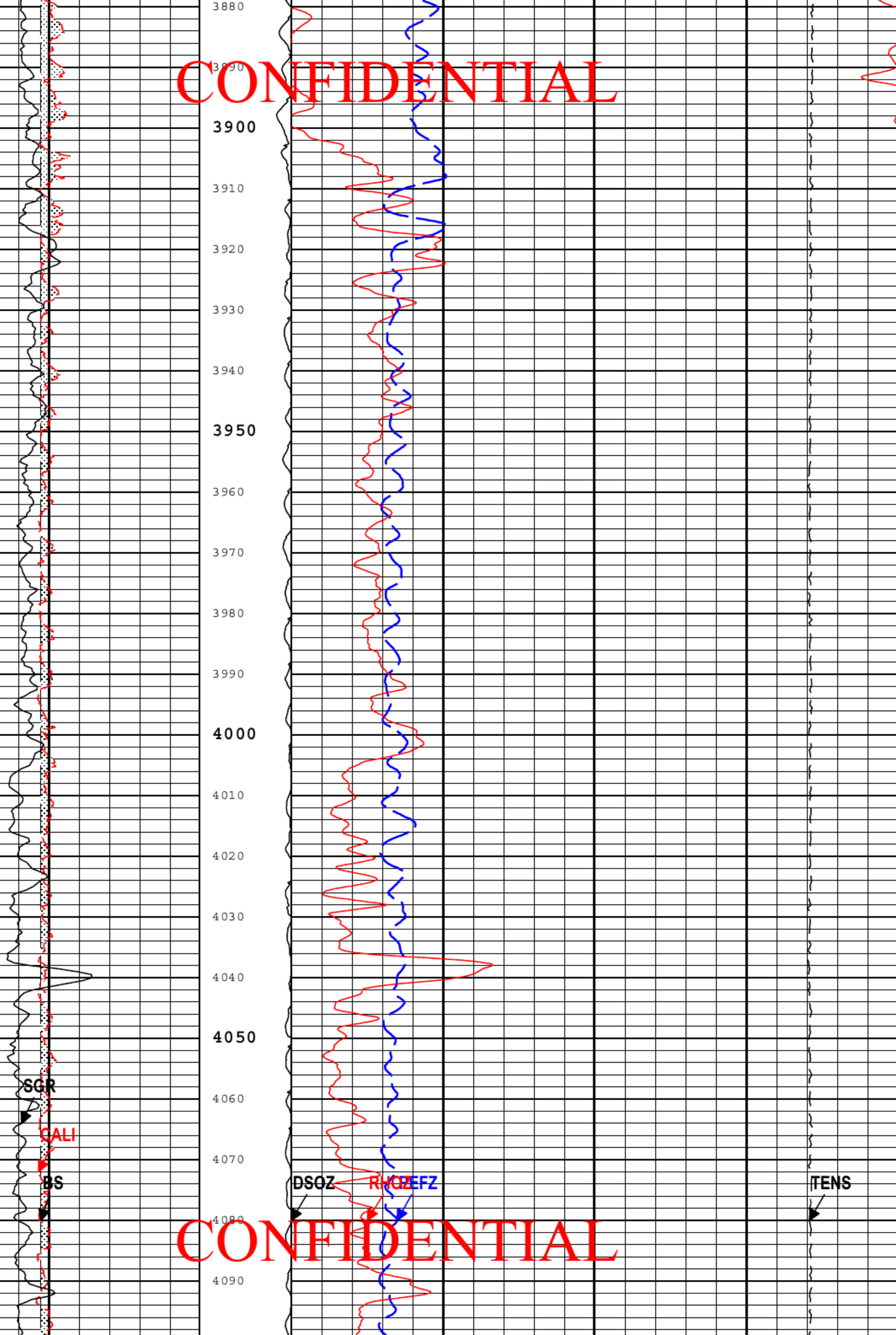
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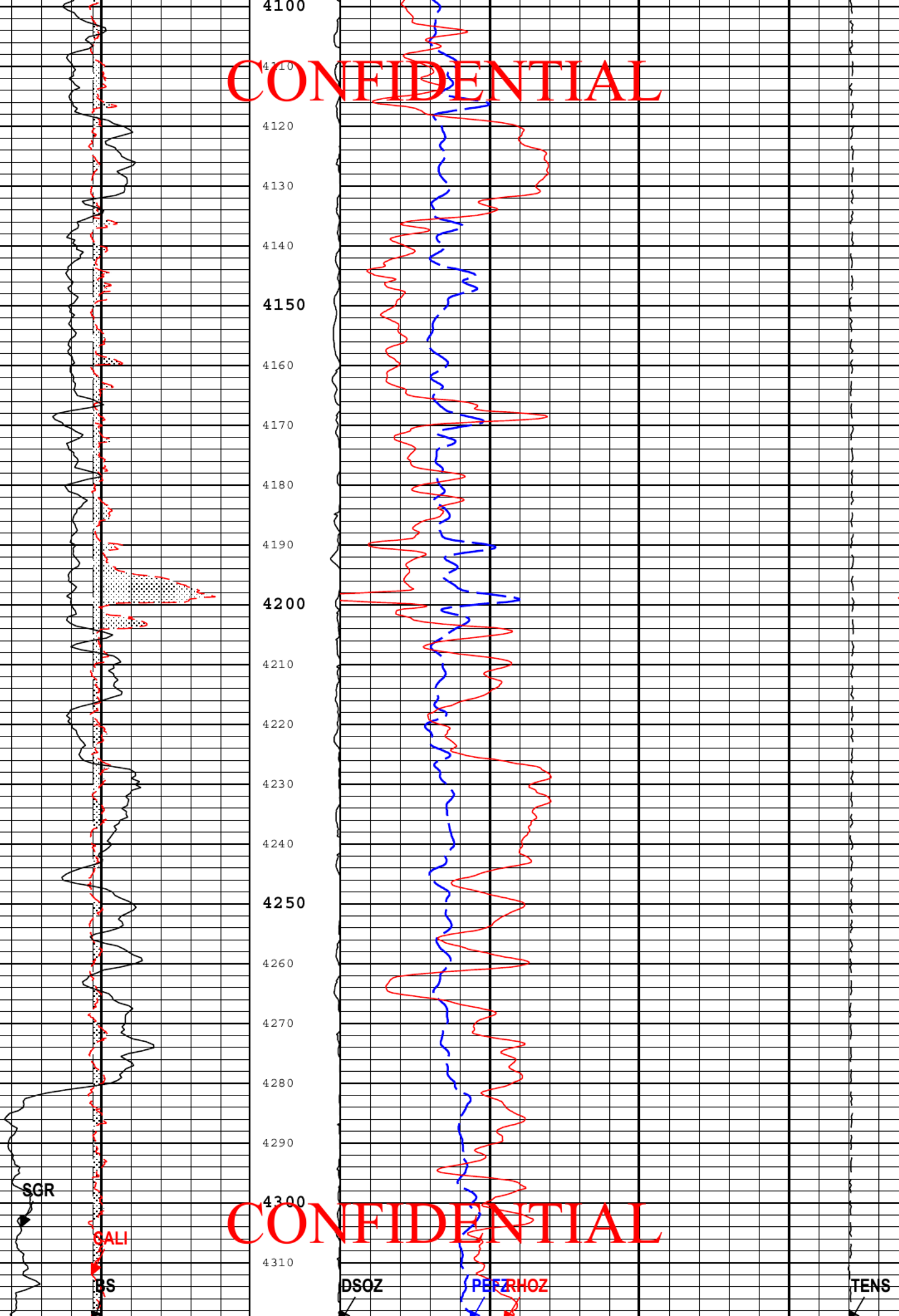
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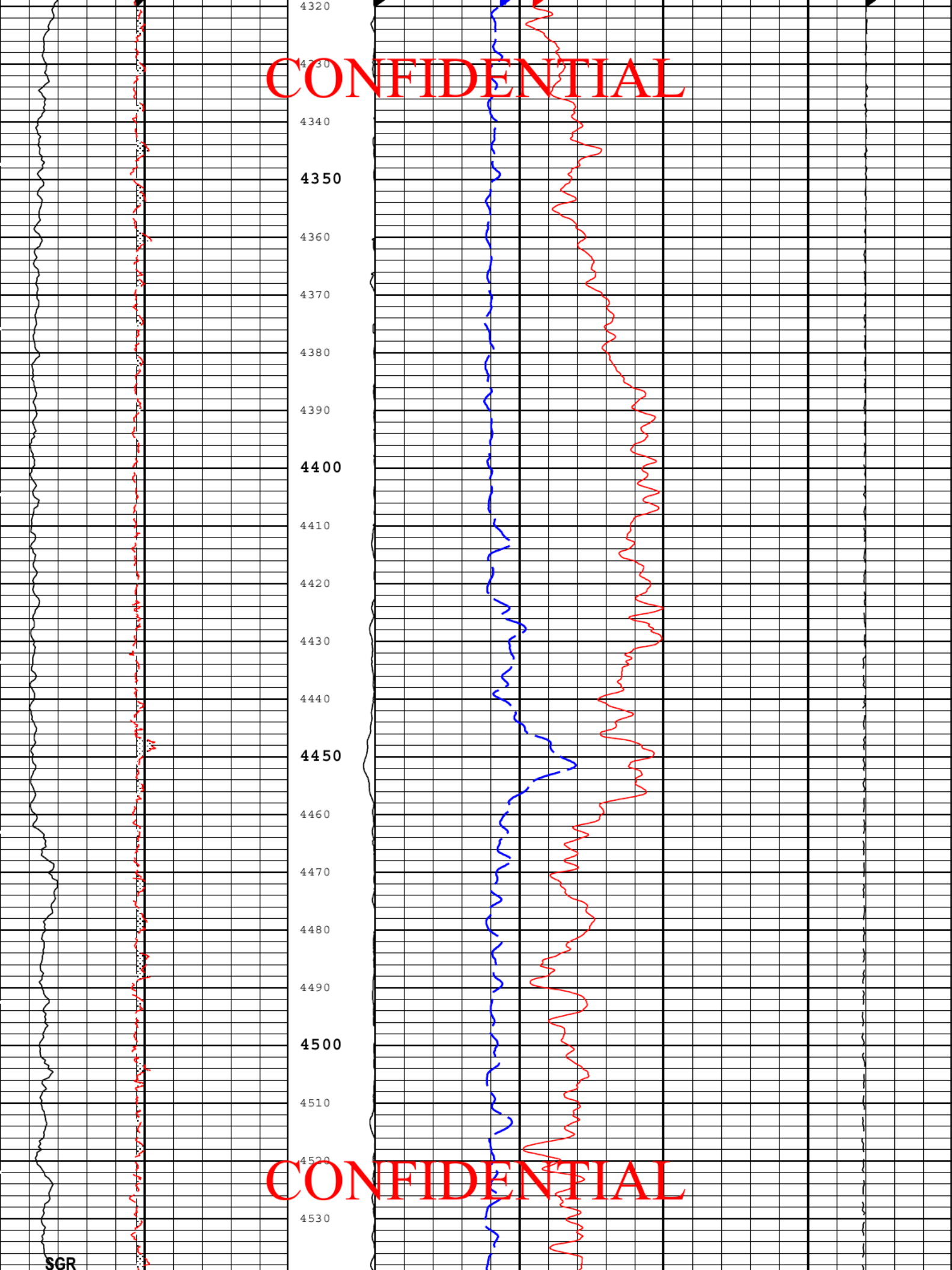
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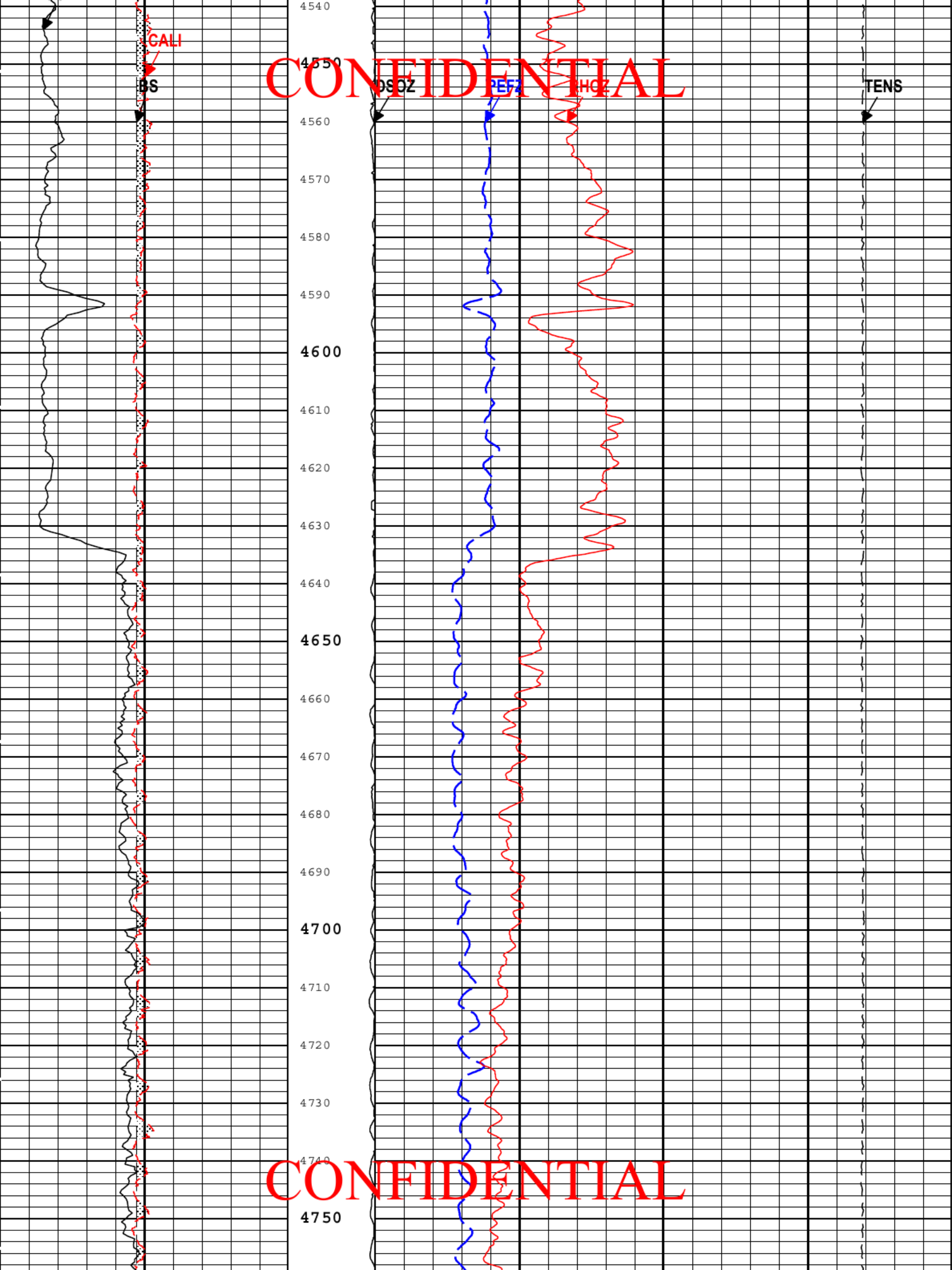
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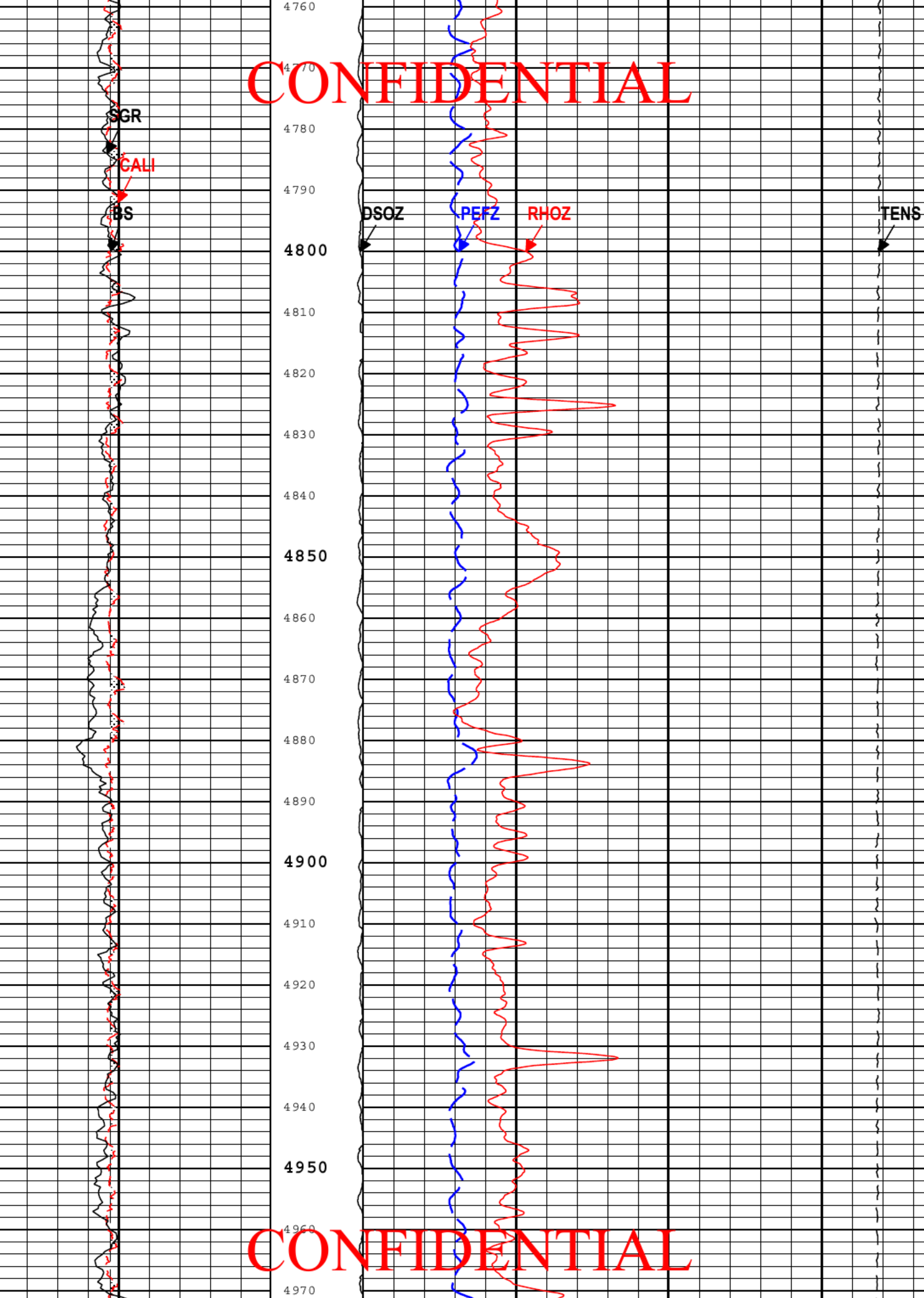


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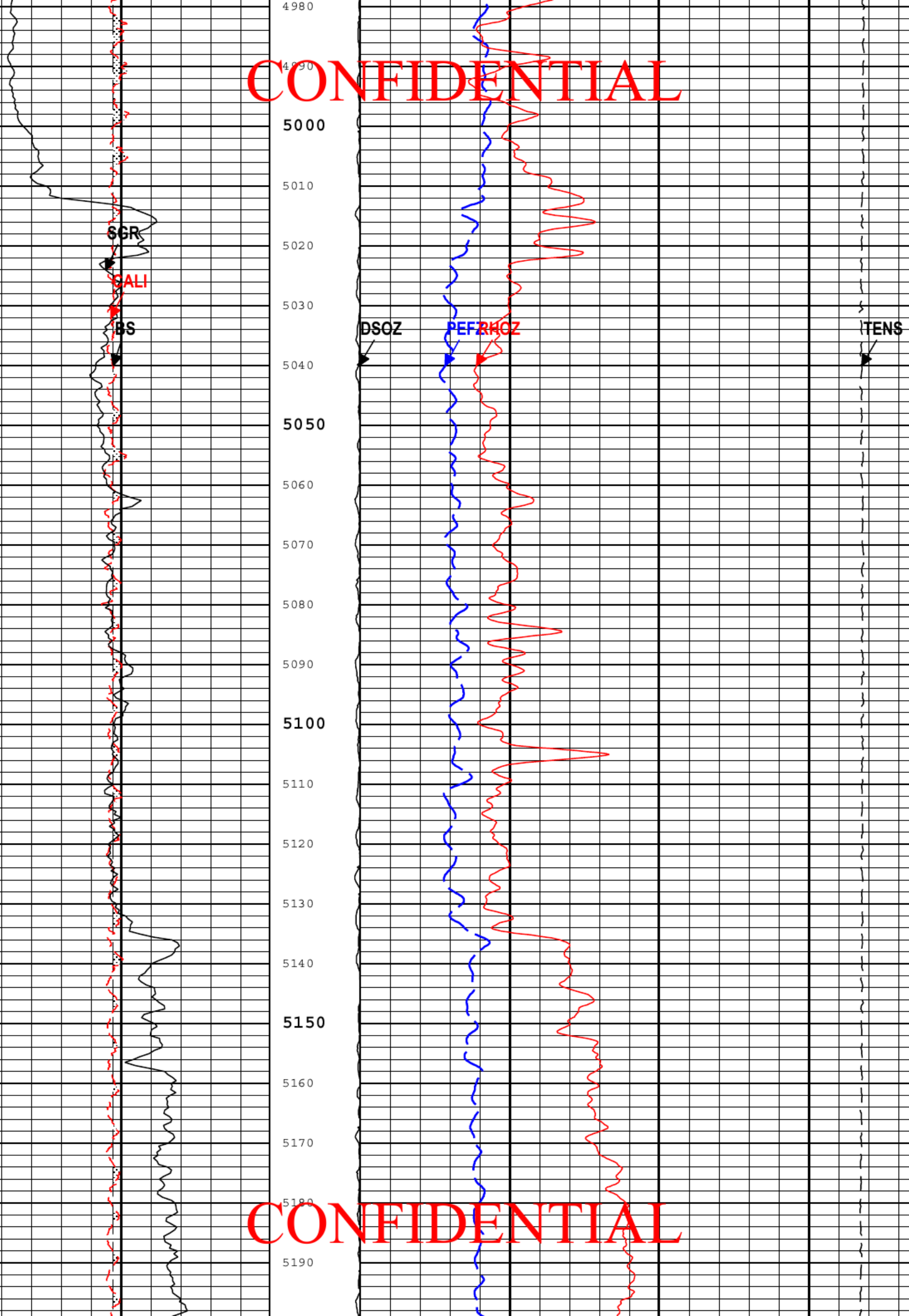
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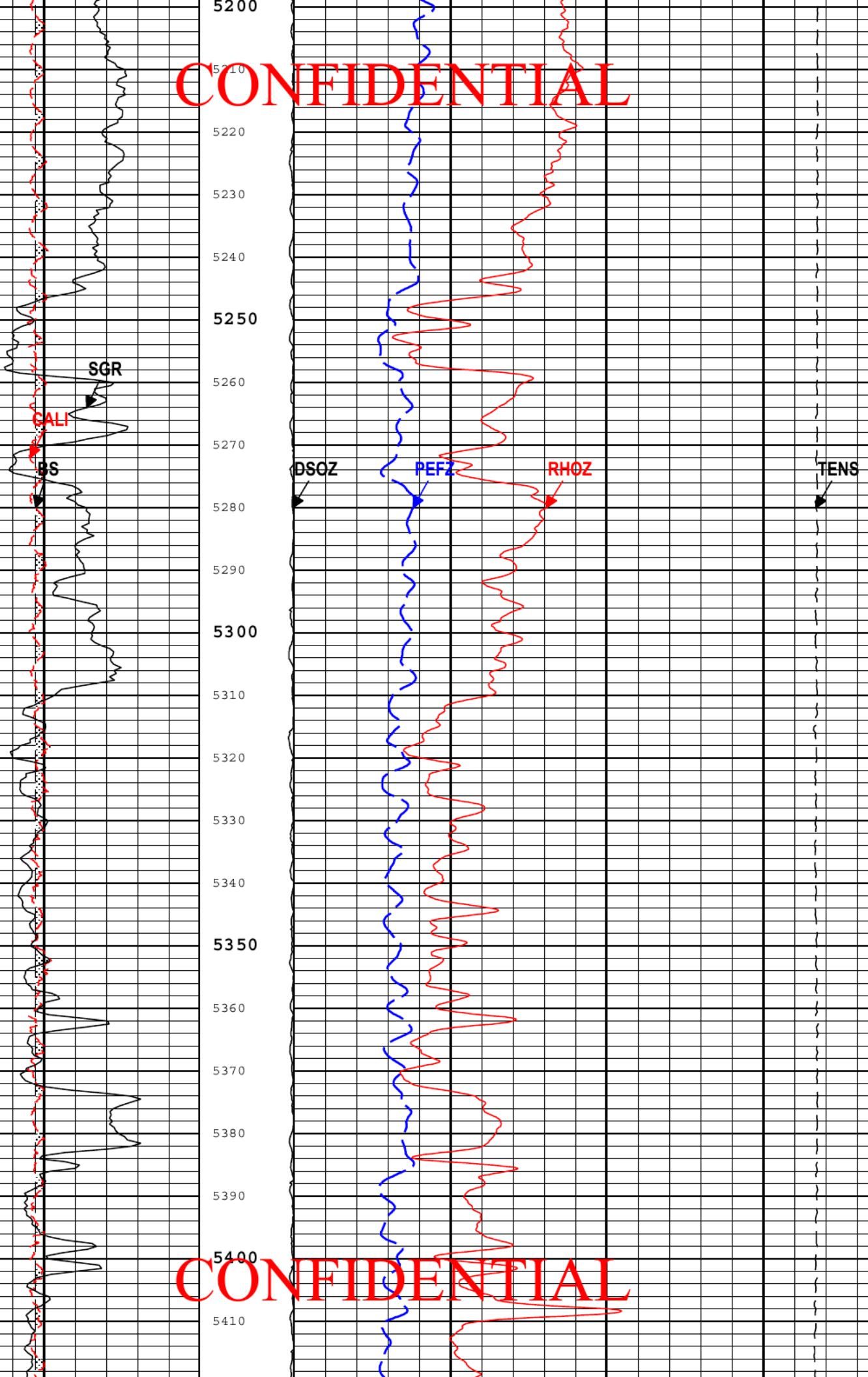
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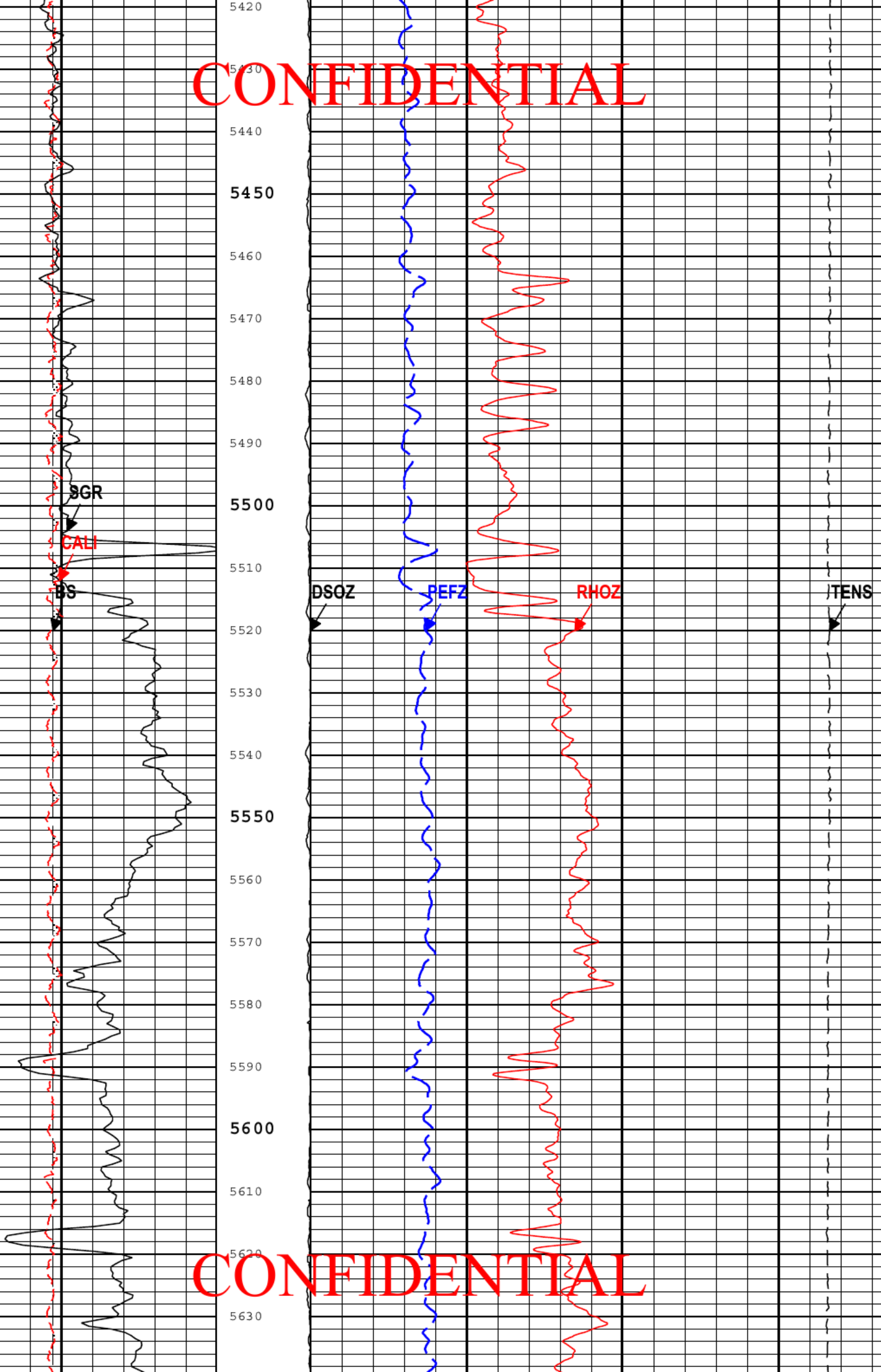


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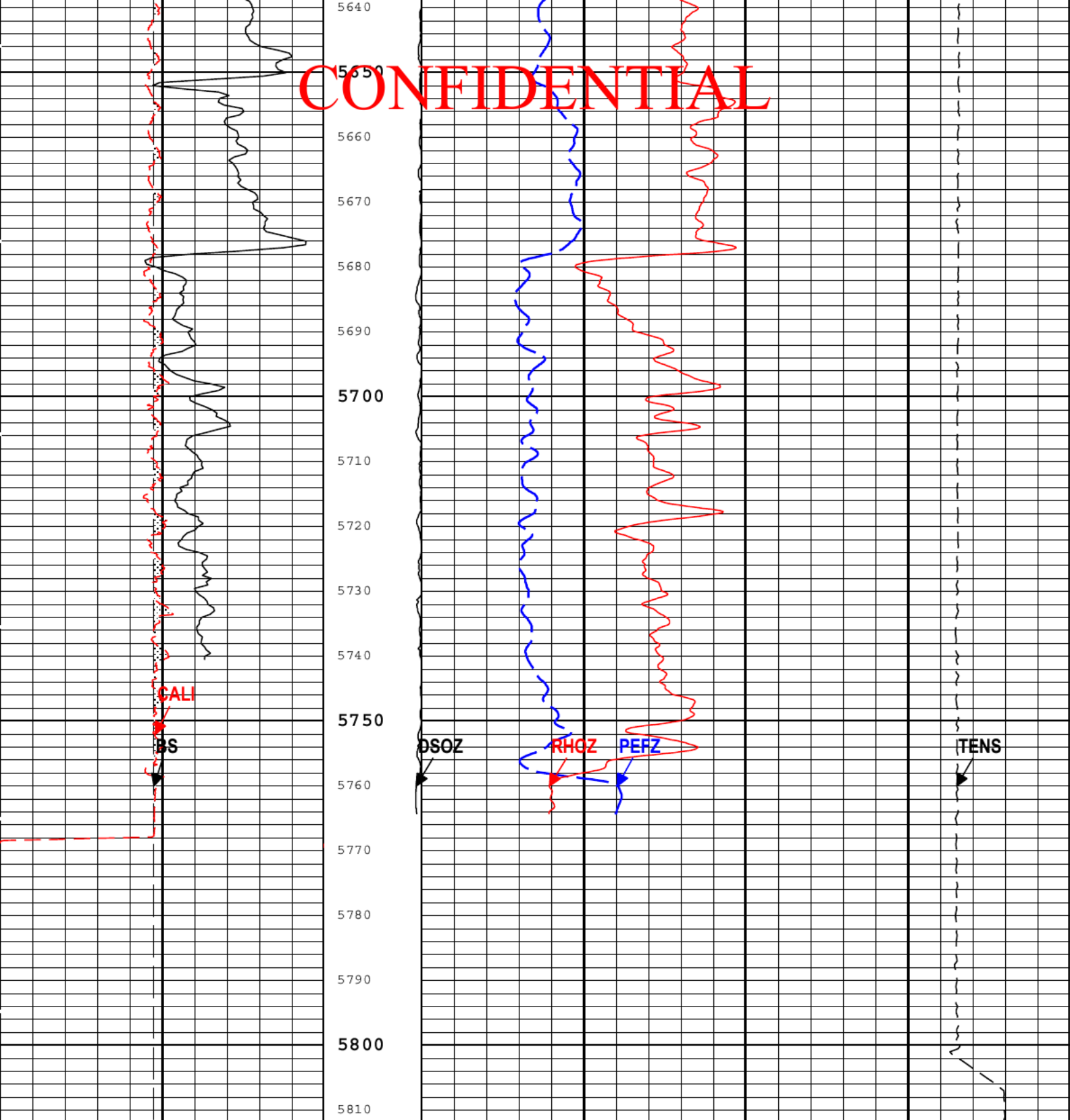


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Area from BS to CALI		Standard Resolution Formation Density (RHOZ) HDRS-H	
Caliper (CALI) HDRS-H		2	g/cm3
4	in	14	3
Spectroscopy Gamma Ray (SGR) HNGS-BA		Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS-H	
0		0	10
gAPI		Cable Tension (TENS)	
150		2	in
0		10000	0
		lbF	

TIME_1900 - Time Marked every 60.00 (s)

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Description: Format: Log (Dens) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 04-Aug-2014 04:20:41

Channel Processing Parameters			
Parameter	Description	Tool	Unit

BARI	Bare 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	8.5	in
CALI_SHIFT	CALI Supplementary Offset	HDRS-H	0.23	in
CBLO	Casing Bottom (Logger)	WLSESSION	1124	ft
DBCC	Barite Constant Correction Flag	HNGS-BA	None	
DFD	Drilling Fluid Density	Borehole	9.3	lbm/gal
DFT	Drilling Fluid Type	Borehole	Oil	
DHC	Density Hole Correction	HDRS-H	Bit Size	
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	

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Tool Control Parameters				
Parameter	Description	Tool	Value	Unit
HRGD_BRD_TYPE	HRGD Board Type	HDRS-H	WITH_HET	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	1800	ft/h
NPUC	Nuclear Pile-Up Correction	HDRS-H	On	

ONE

Main Pass - Triple Combo

Software Version

Acquisition System	Version
MaxWell	4.0.9163.3000
Application Patch	Patch-SP-10767_18214-4.0.9163.3001

Computation	Description	Version
Borehole	Borehole Ensemble provides common Borehole Parameters and Channels	4.0.9433.3000
HENVIR	Computation Ensemble for the HGNS Neutron environmental corrections	4.0.9360.3000
Sonic Openhole Ensemble	Sonic Openhole Ensemble	4.0.9360.3000
DepthCorrection	DepthCorrection	4.0.9433.3000

Tool Elements	Description	Software Version	Firmware Version
AZIS	Array Induction Sonde - Z	4.0.9427.3000	
HRCC-H	HILT High-Resolution Control Cartridge, 150 degC	4.0.9385.3000	2.0
HRGD-H	HILT Resistivity Gamma-Ray Density Device, 150 degC	4.0.9385.3000	3.0
HGNS-H	HILT Gamma-Ray and Neutron Sonde, 150 degC	4.0.9385.3000	2.0
HNGS-BA	HNGS Sonde Element	4.0.9360.3000	2.0
SLS-E	Sonic Logging Sonde E supports 3'-5'BHC DT and CBL/VDL	4.0.9360.3000	4.0

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Main[4]:Up	Up	1079.24 ft	5811.97 ft	04-Aug-2014 12:35:16 AM	04-Aug-2014 3:17:12 AM	ON	-0.68 ft	No

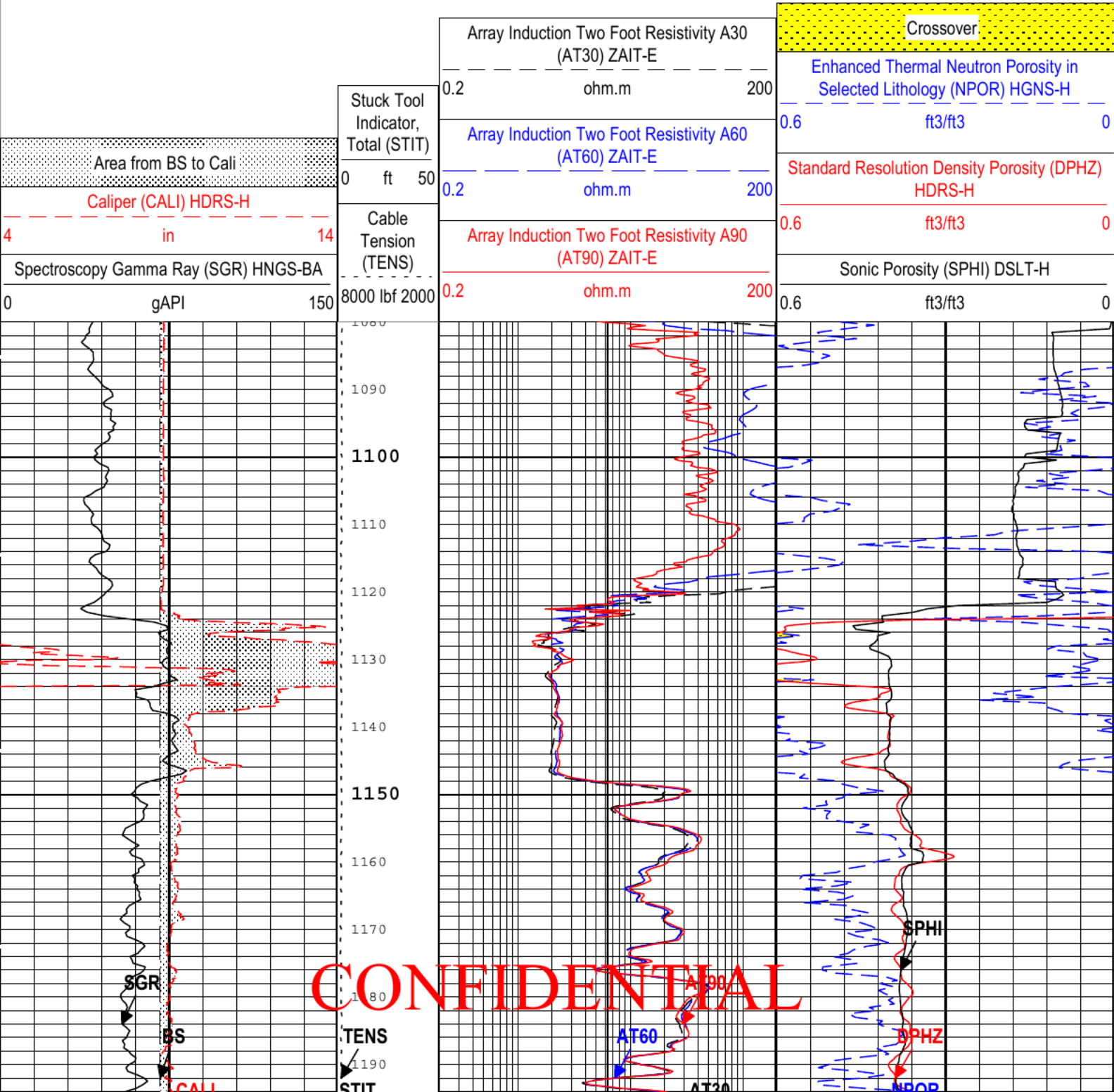
All depths are referenced to toolstring zero

Log	CONFIDENTIAL	Company: Alta Mesa Services Well: Kauffman 1-34 ONE: Main[4]:Up:S004
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AT30	ZAIT-E:AZIS:AZIS	3in
AT60	ZAIT-E:AZIS:AZIS	3in
AT90	ZAIT-E:AZIS:AZIS	3in
BS	Borehole	6in
CALI	HDRS-H:HRCC-H:HRCC-H	1in
DPHZ	HDRS-H:HRMS-H:HRGD-H	2in
NPOR	HGNS-H:HGNS-H:HGNS-H	6in
SGR	HNGS-BA:HNGS-BA:HNGS-BA	6in
SPHI	DSLT-H:SLS-E:SLS-E	6in
STIT	DepthCorrection	6in
TENS	WLWorkflow	6in
TIME_1900	WLWorkflow	0.1in

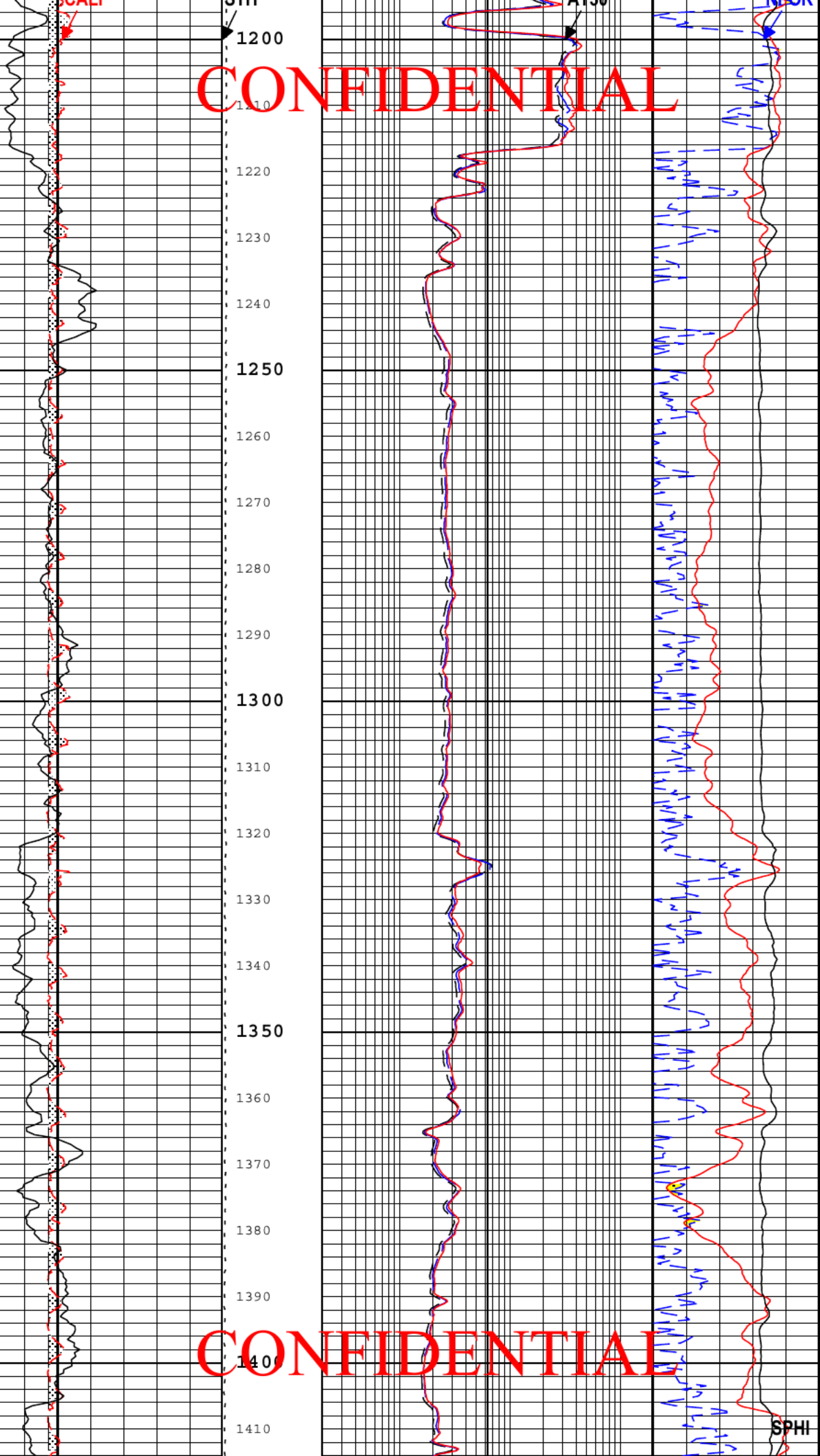
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TIME_1900 - Time Marked every 60.00 (s)



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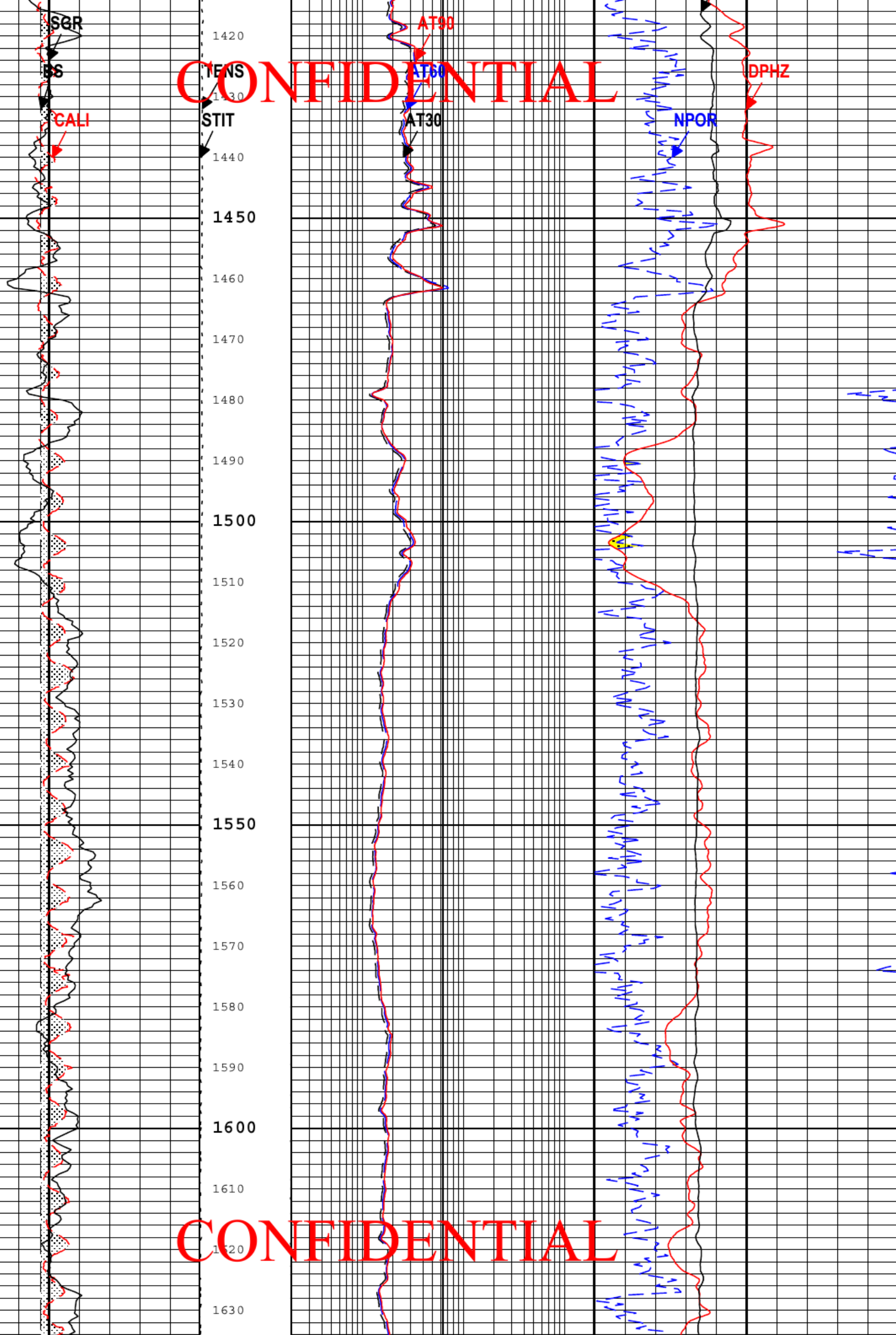
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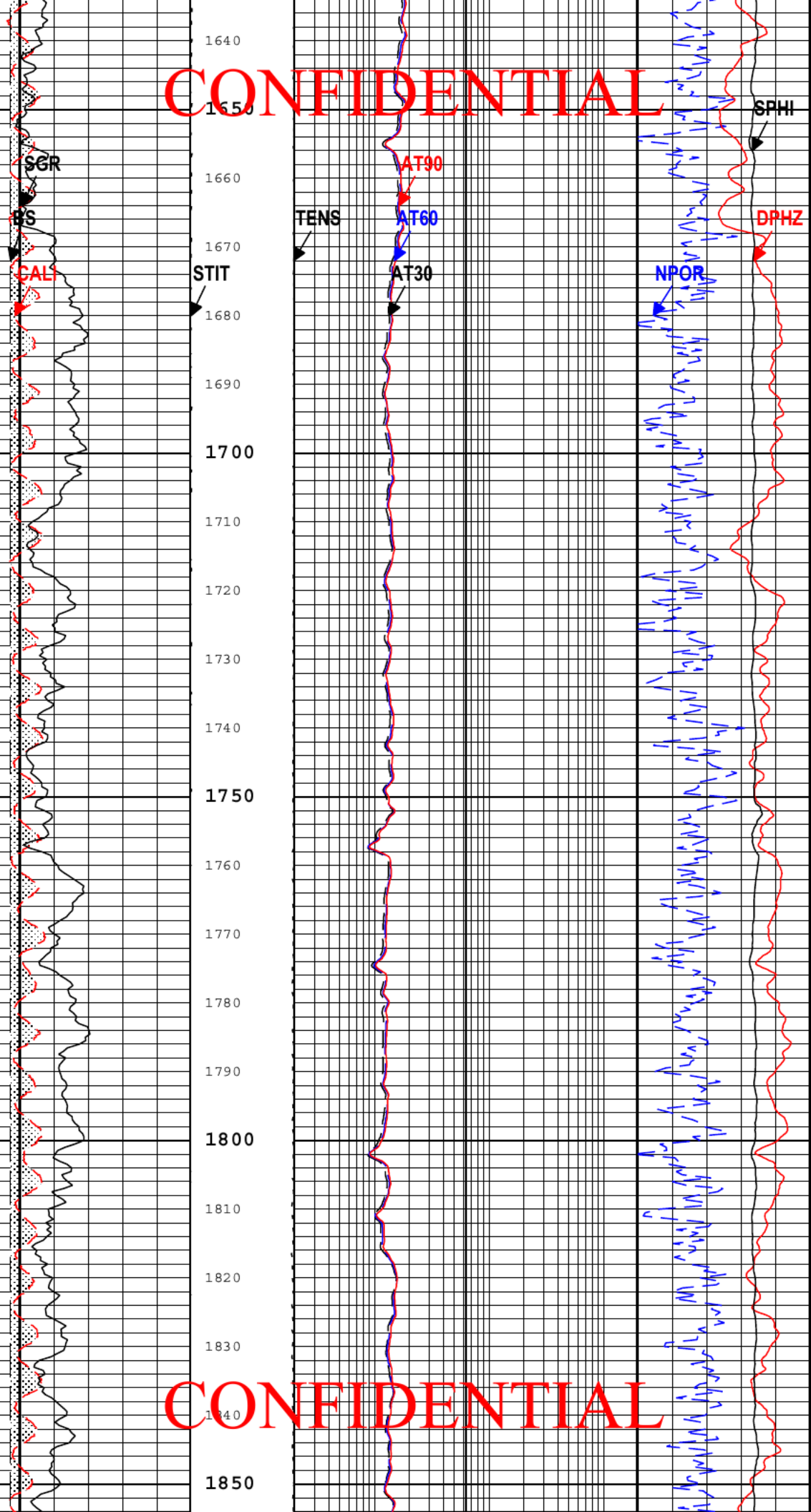
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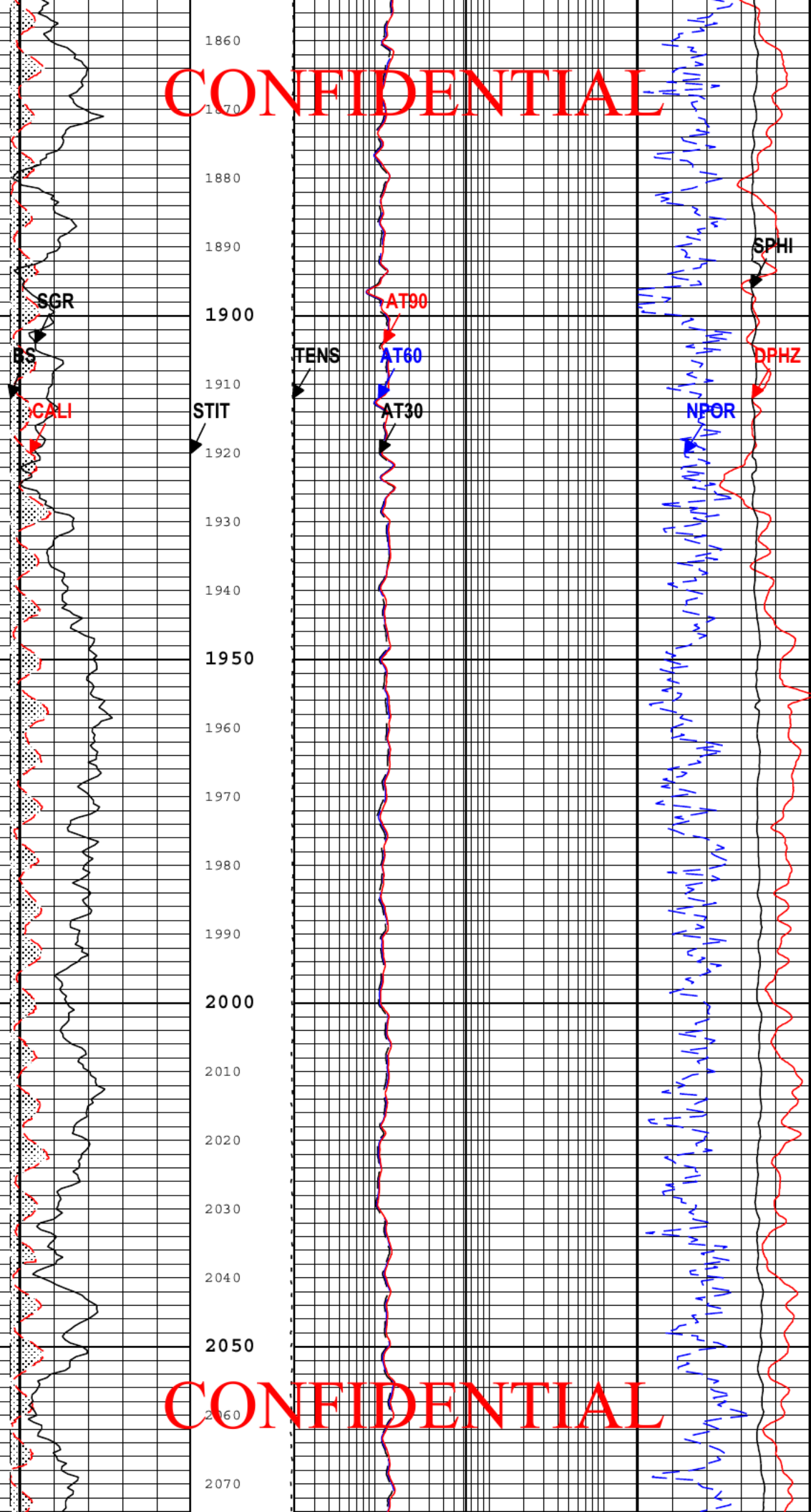


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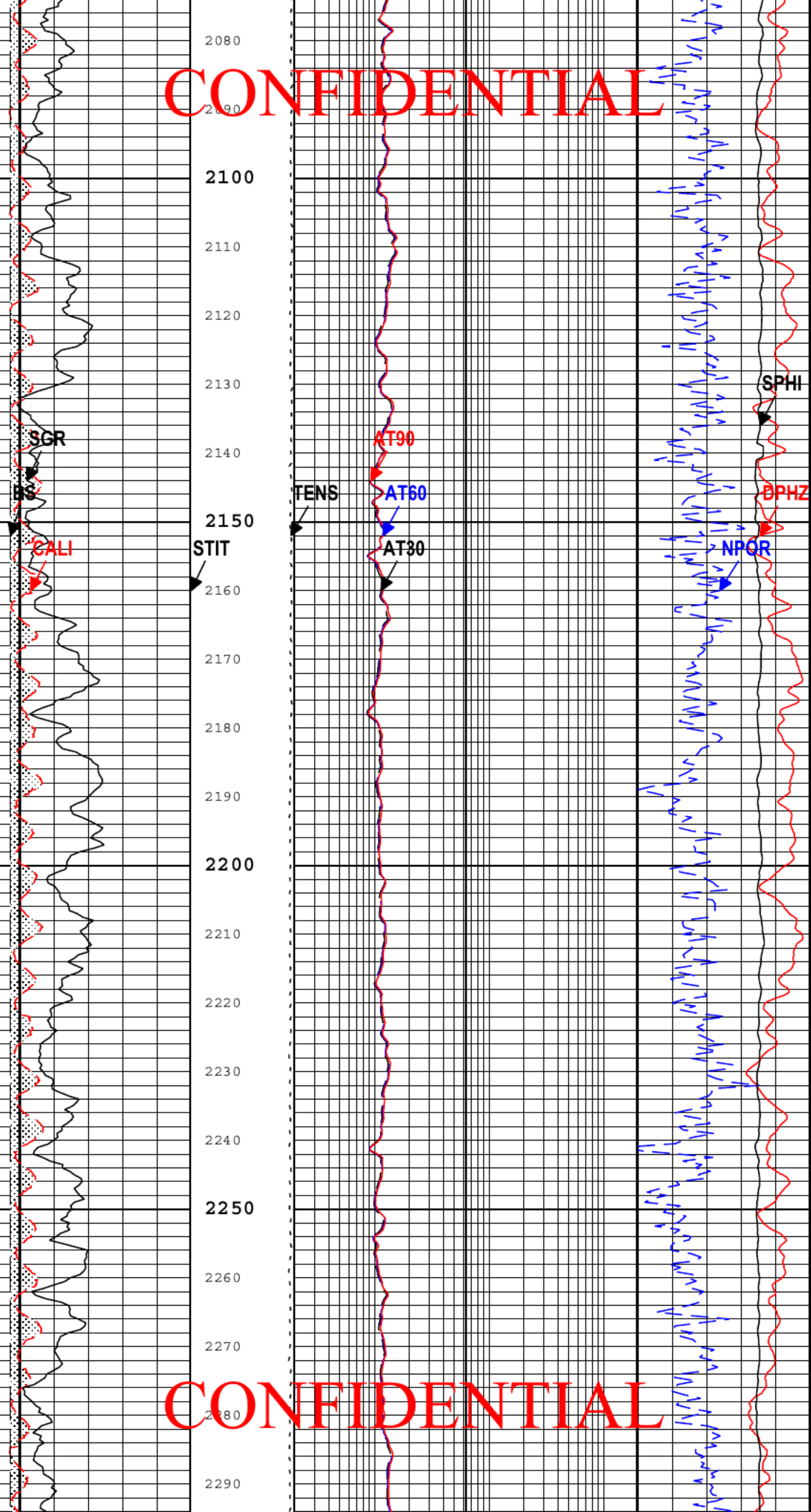
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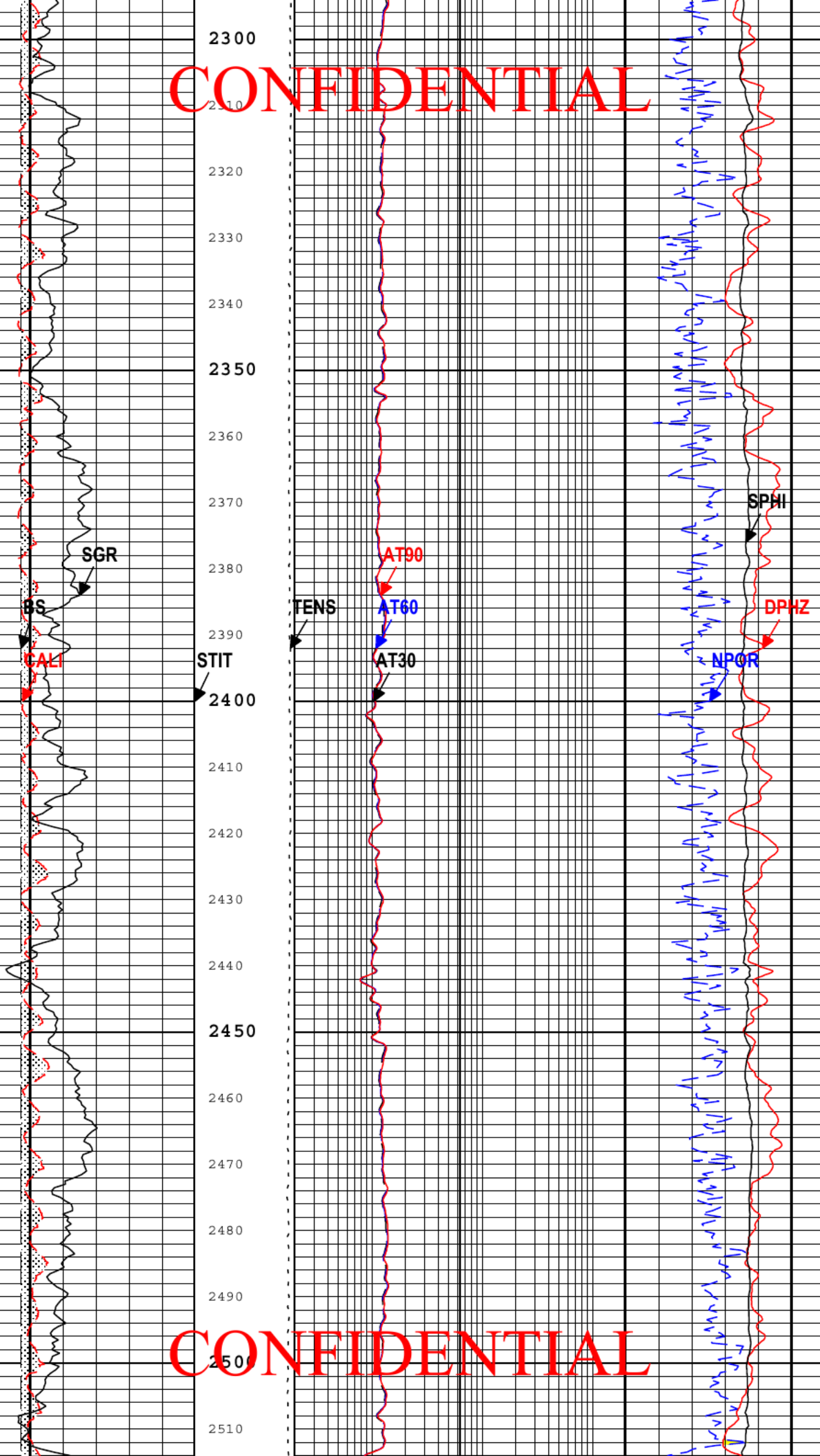
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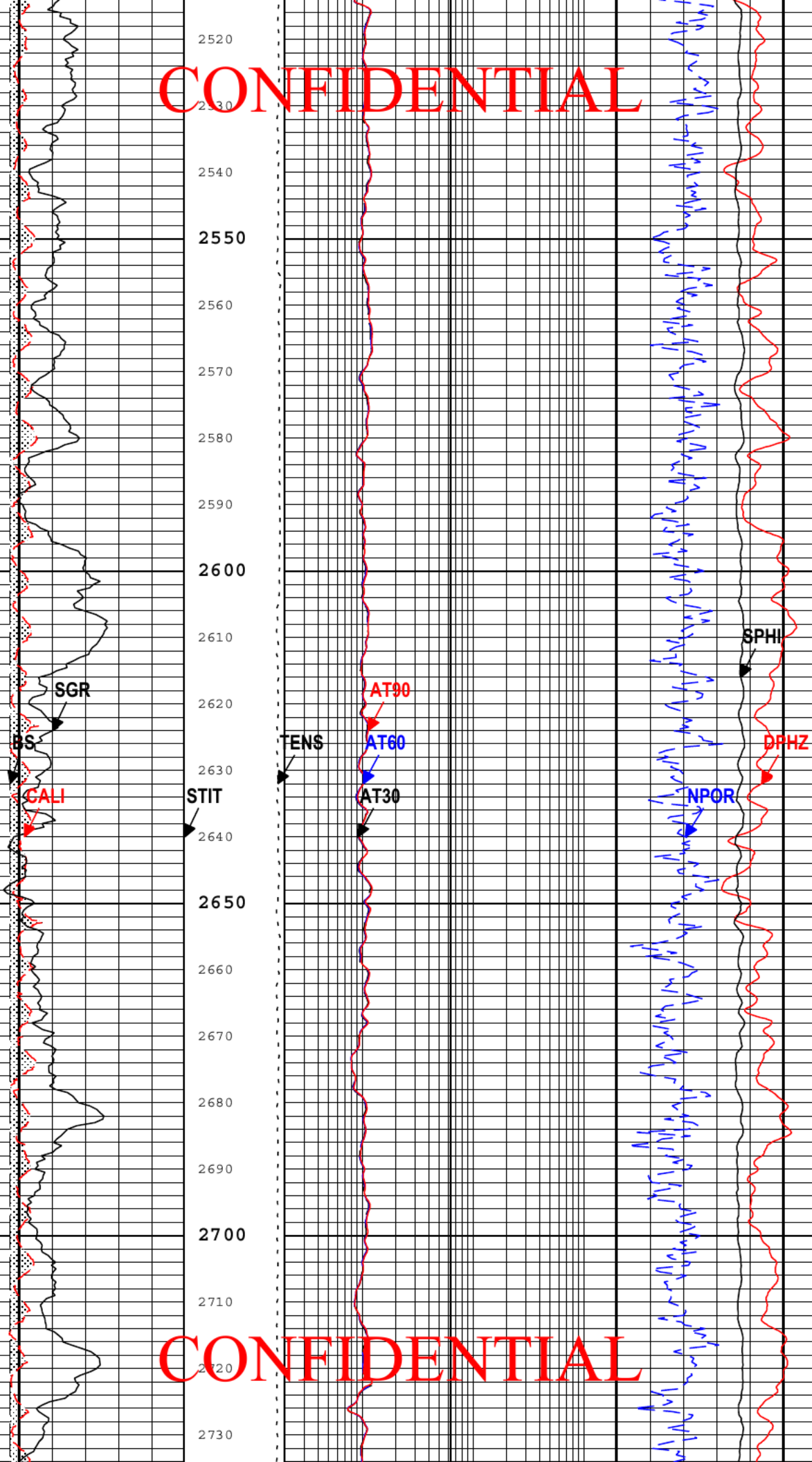
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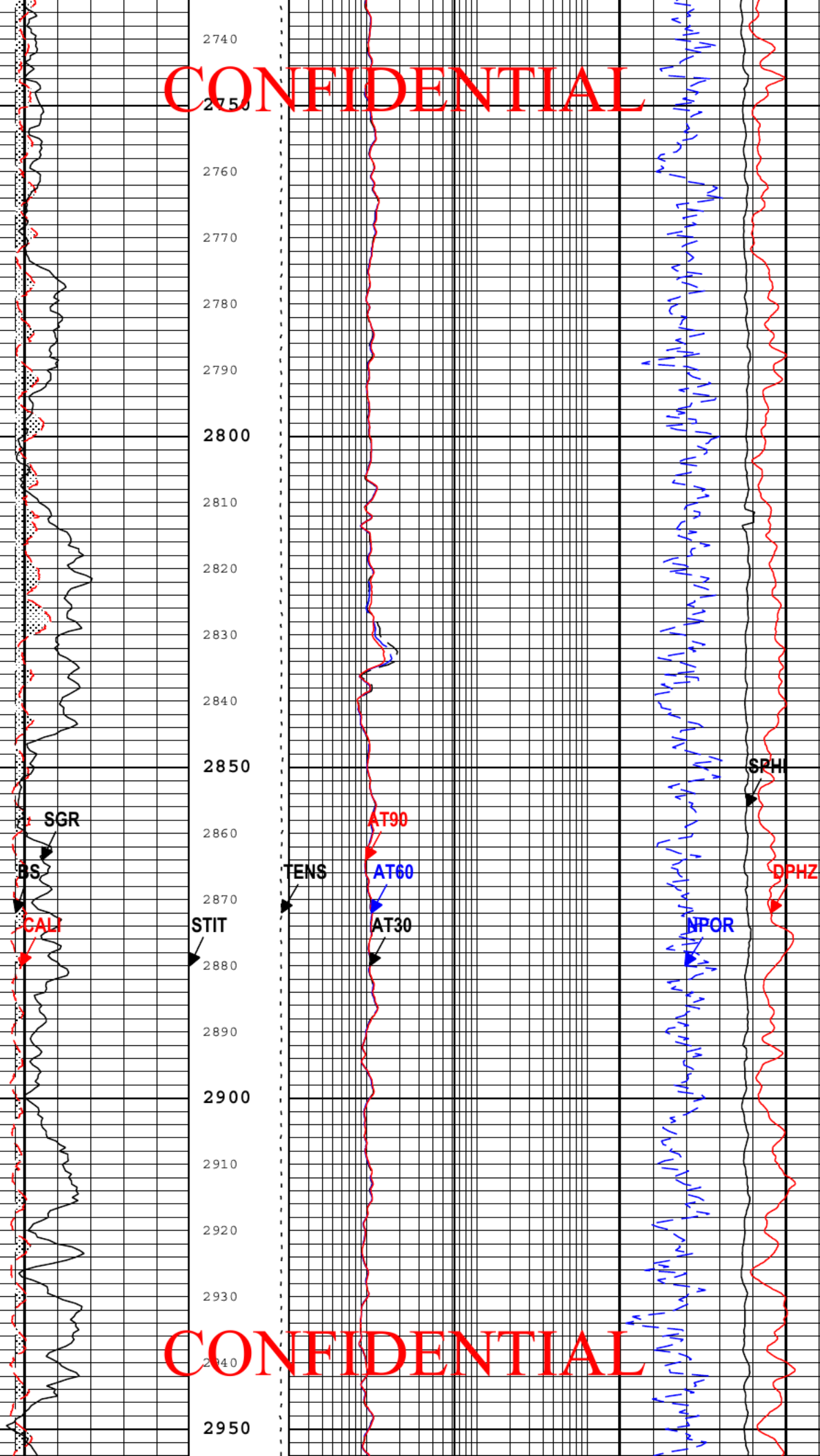
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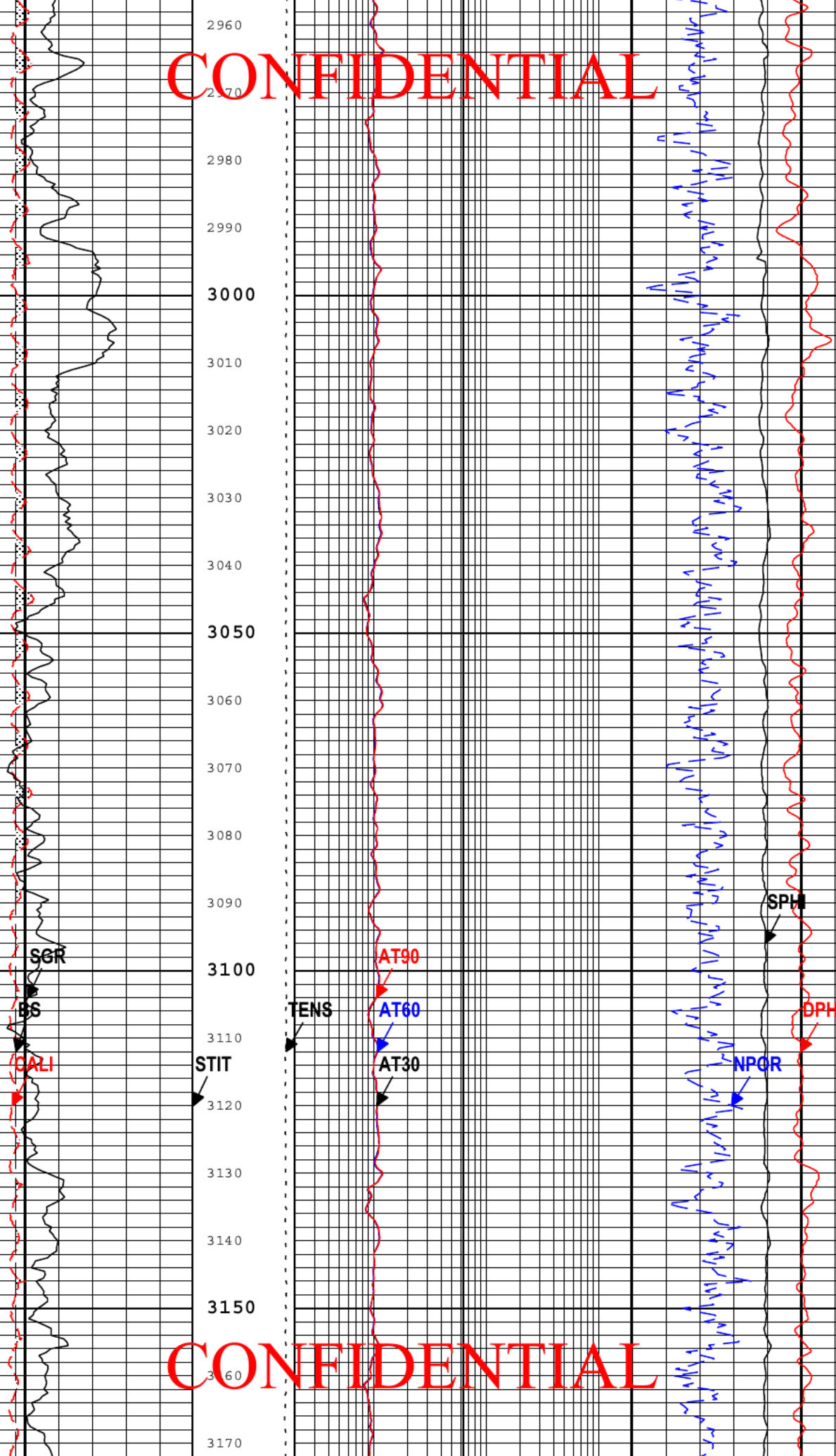
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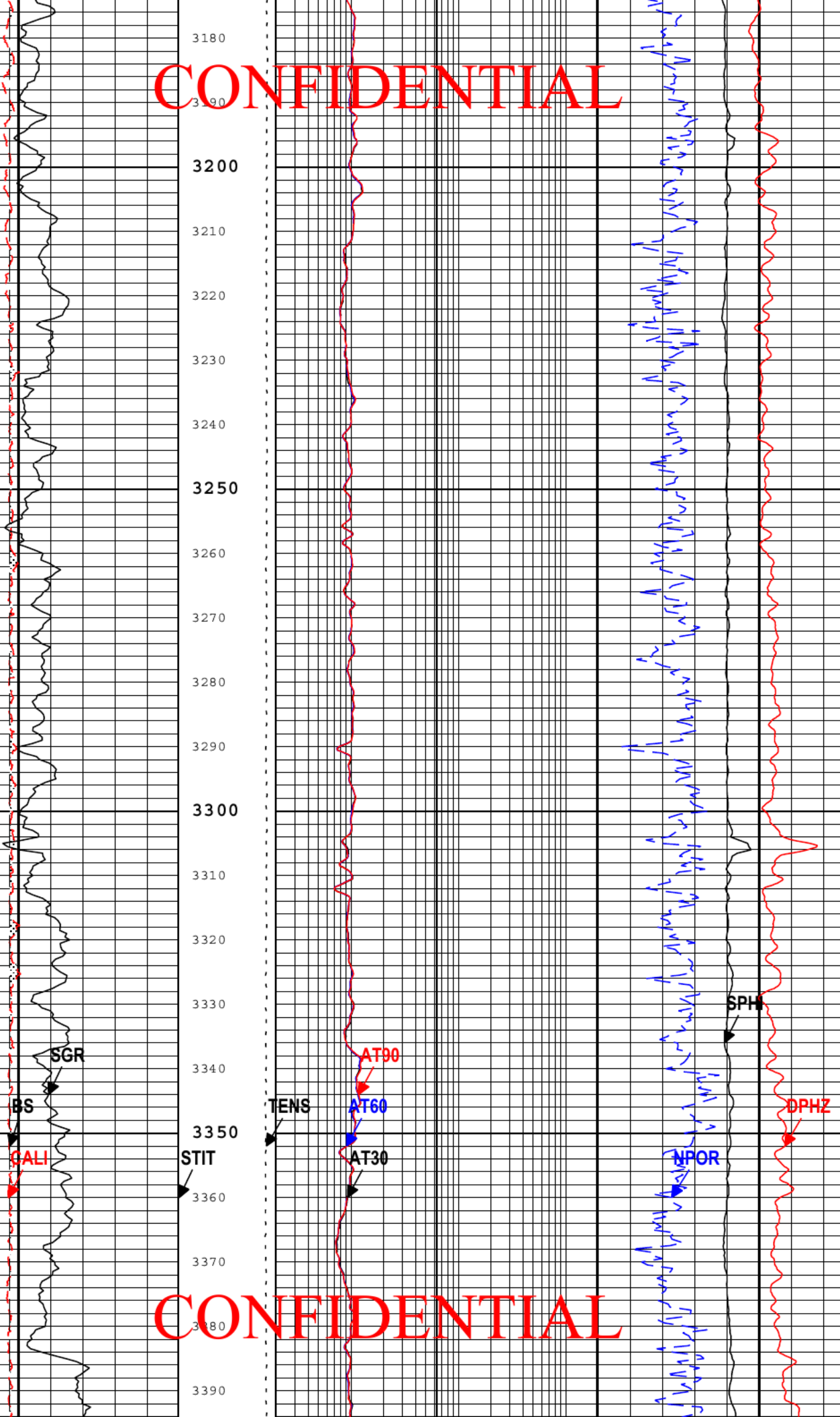
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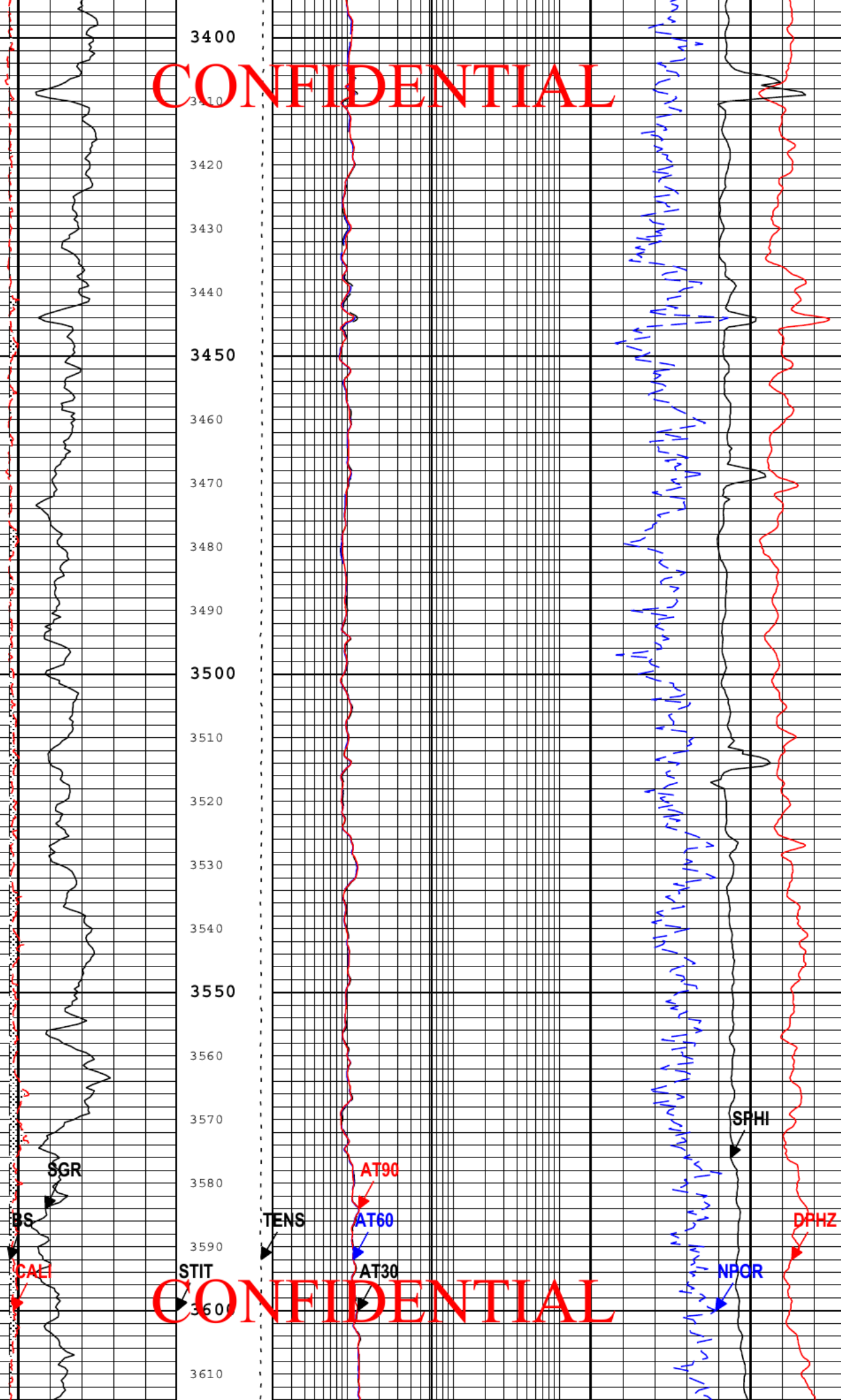
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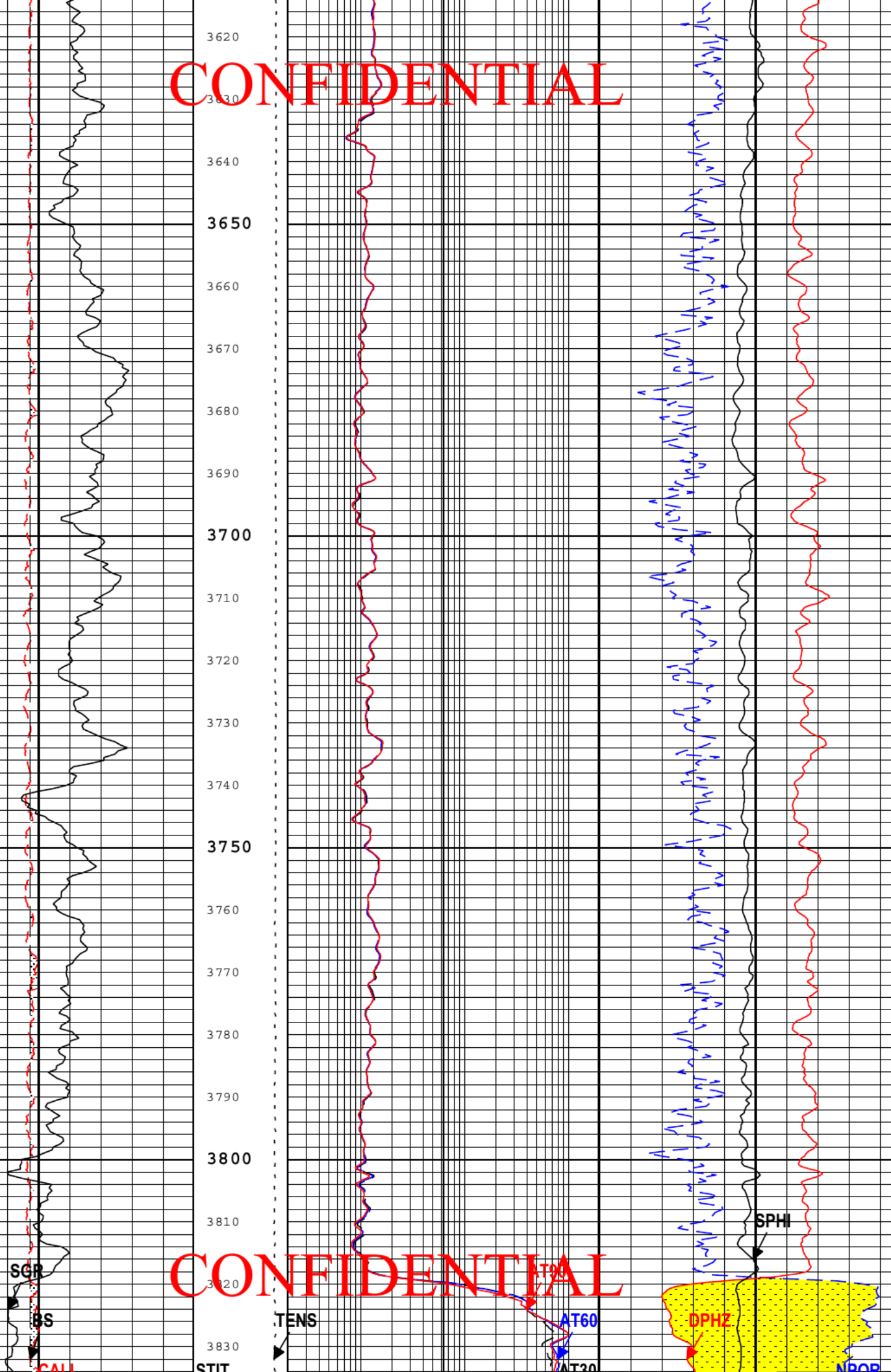
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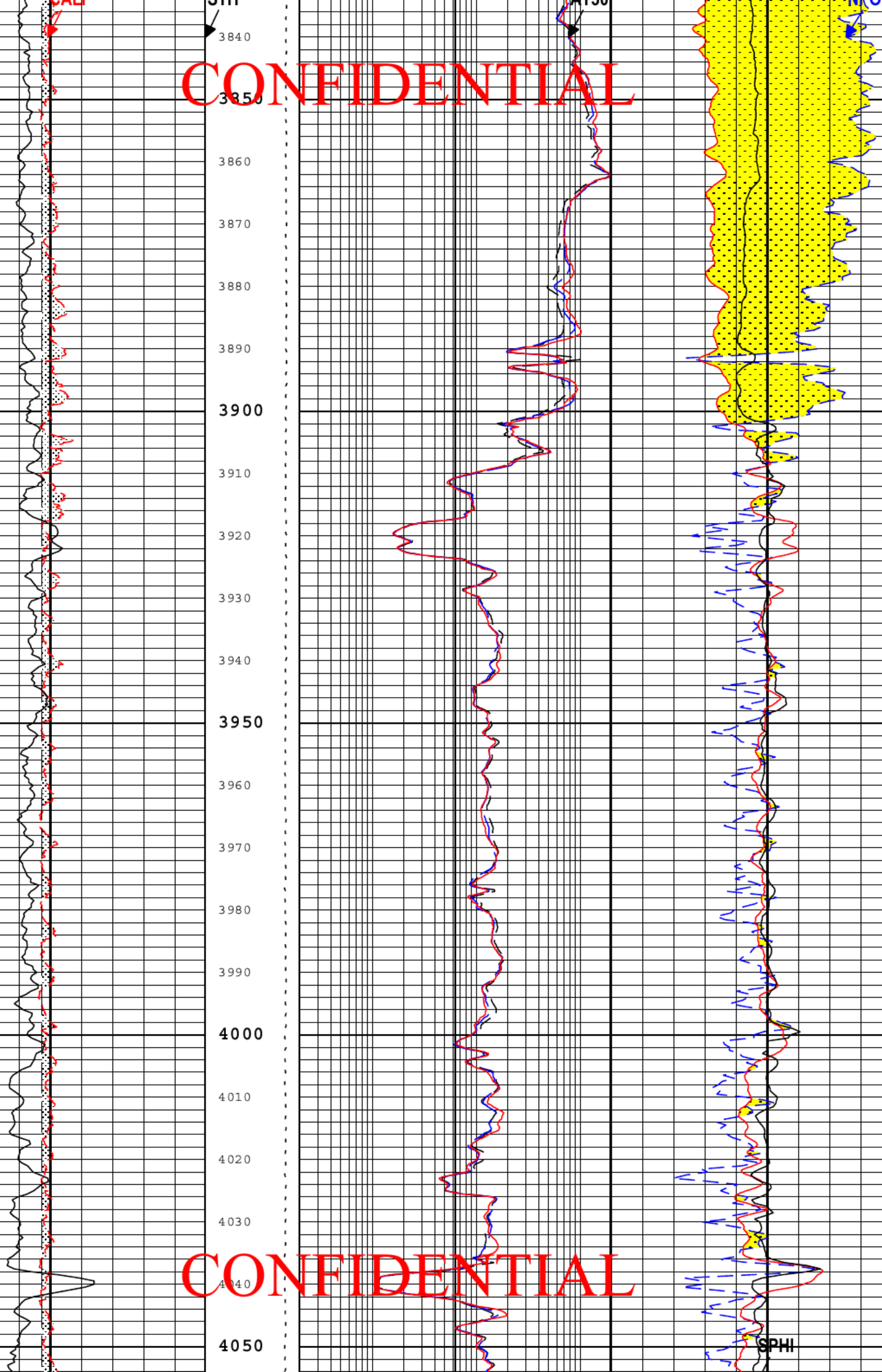
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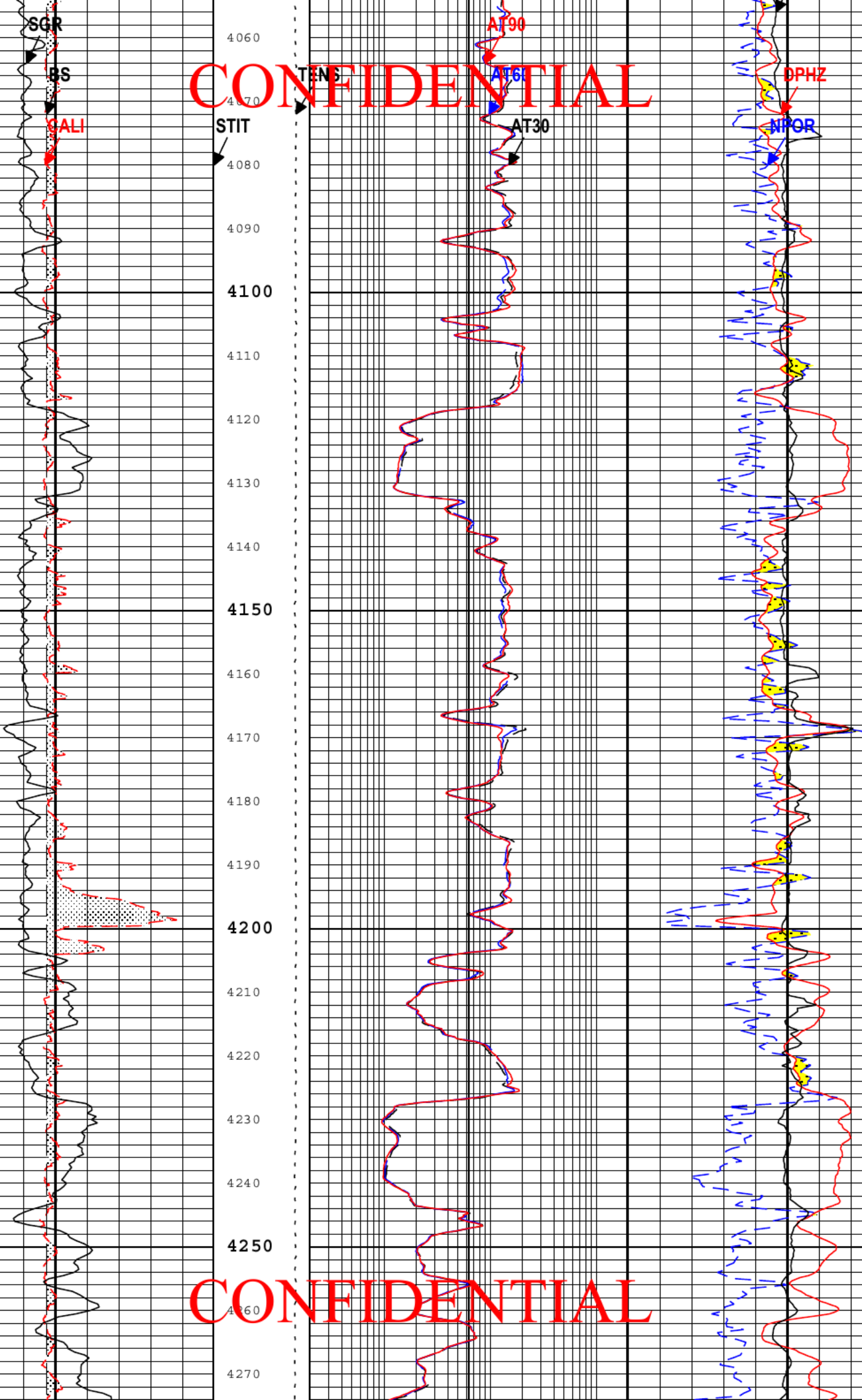
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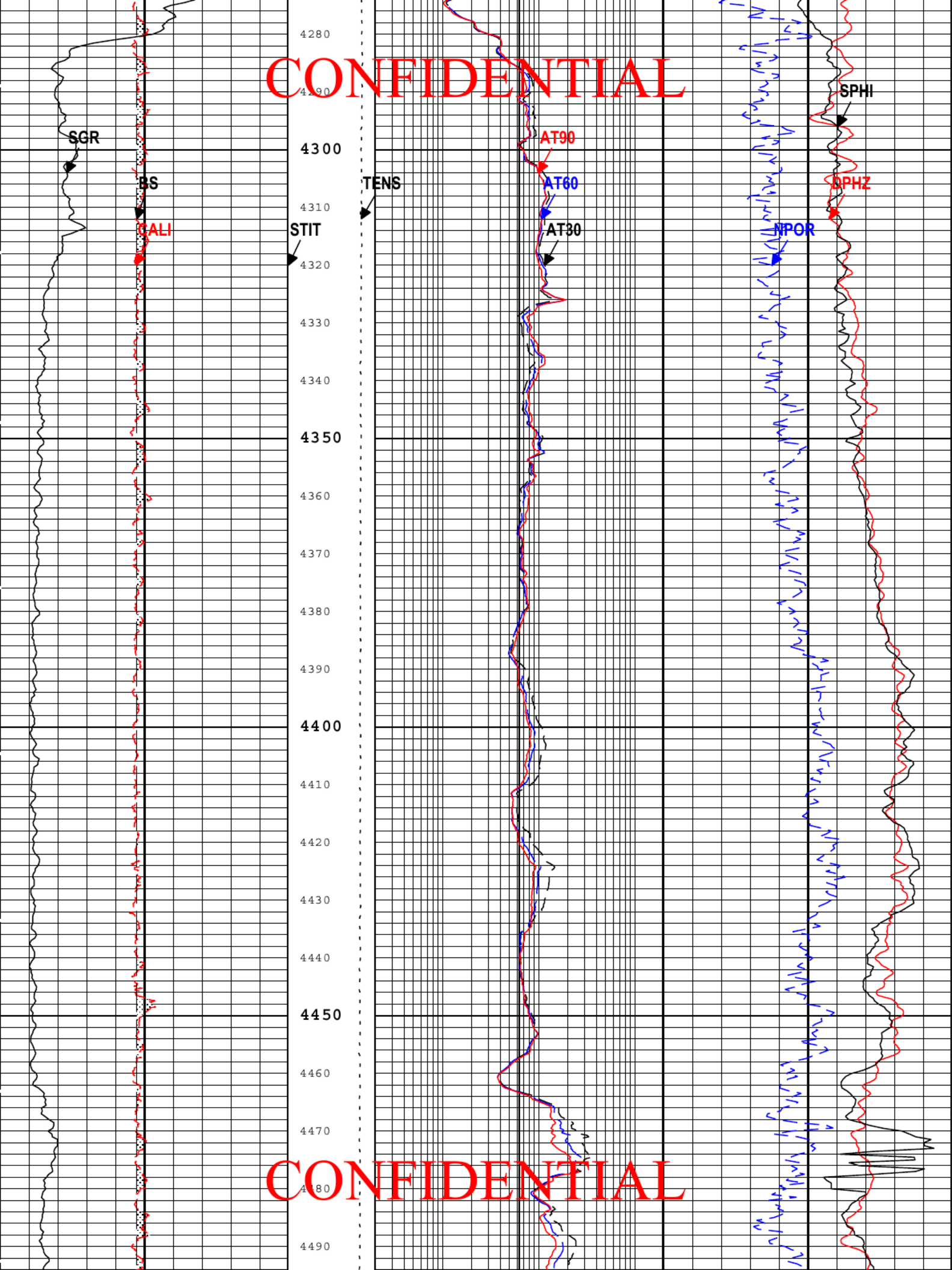
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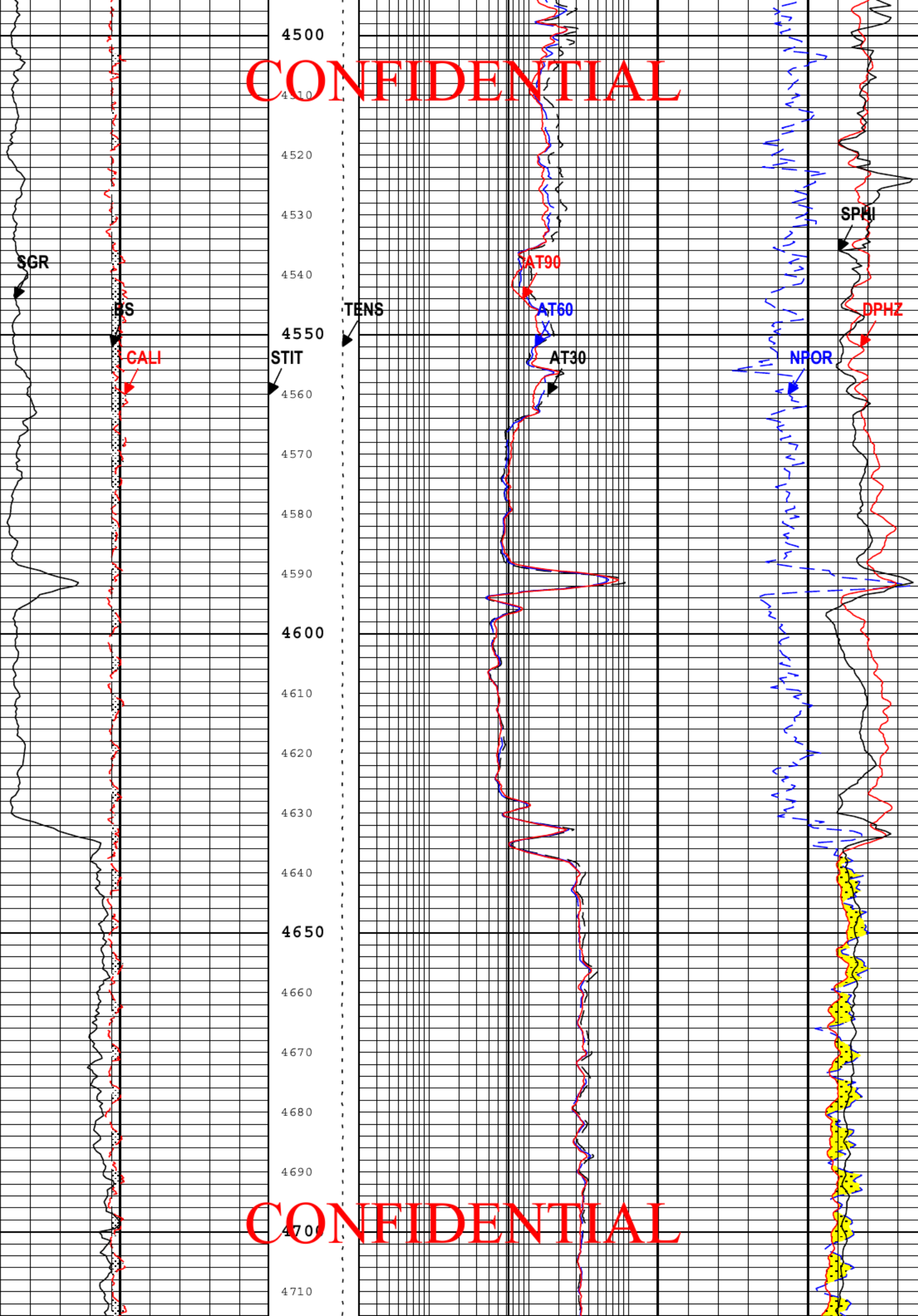
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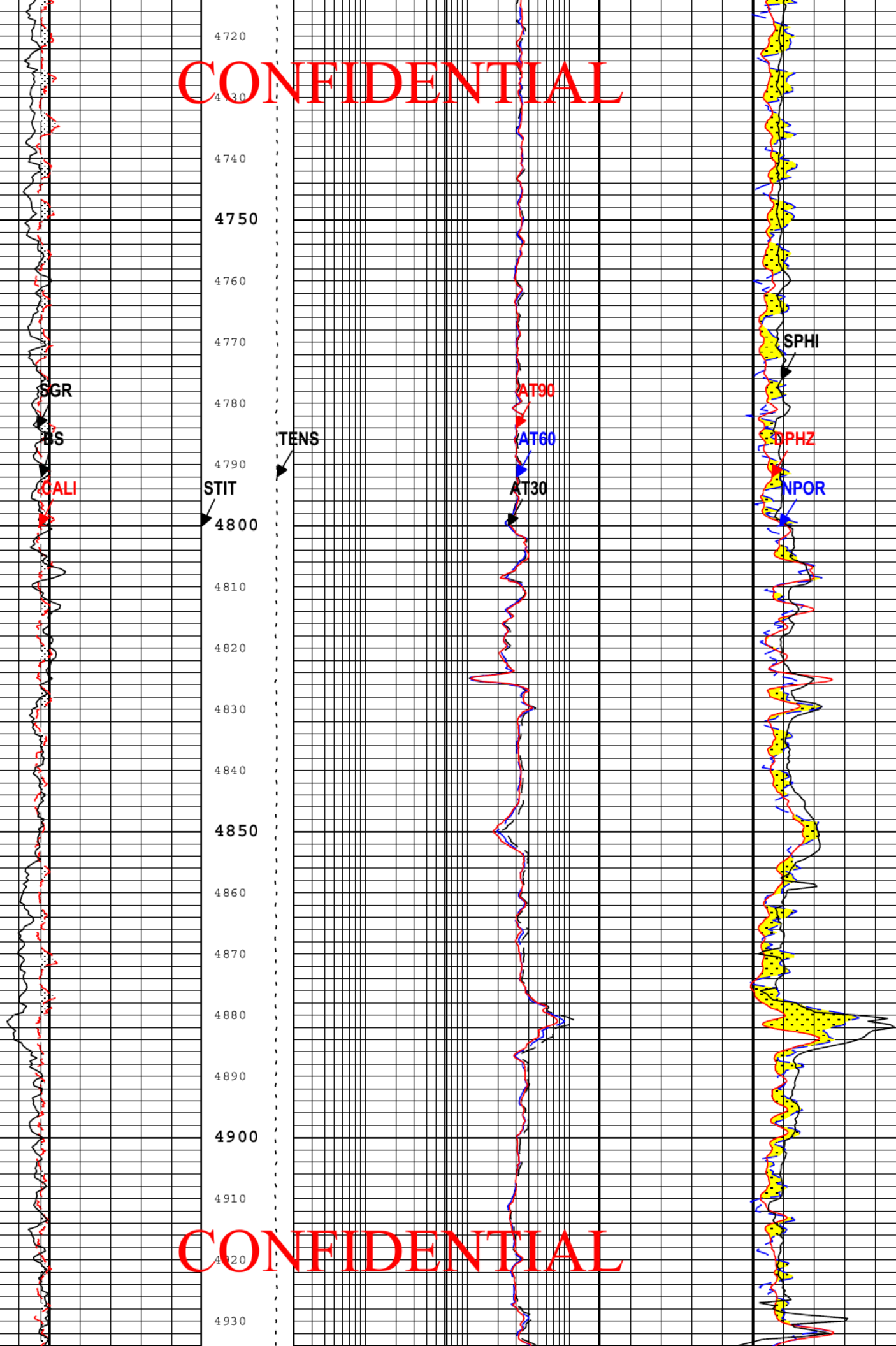
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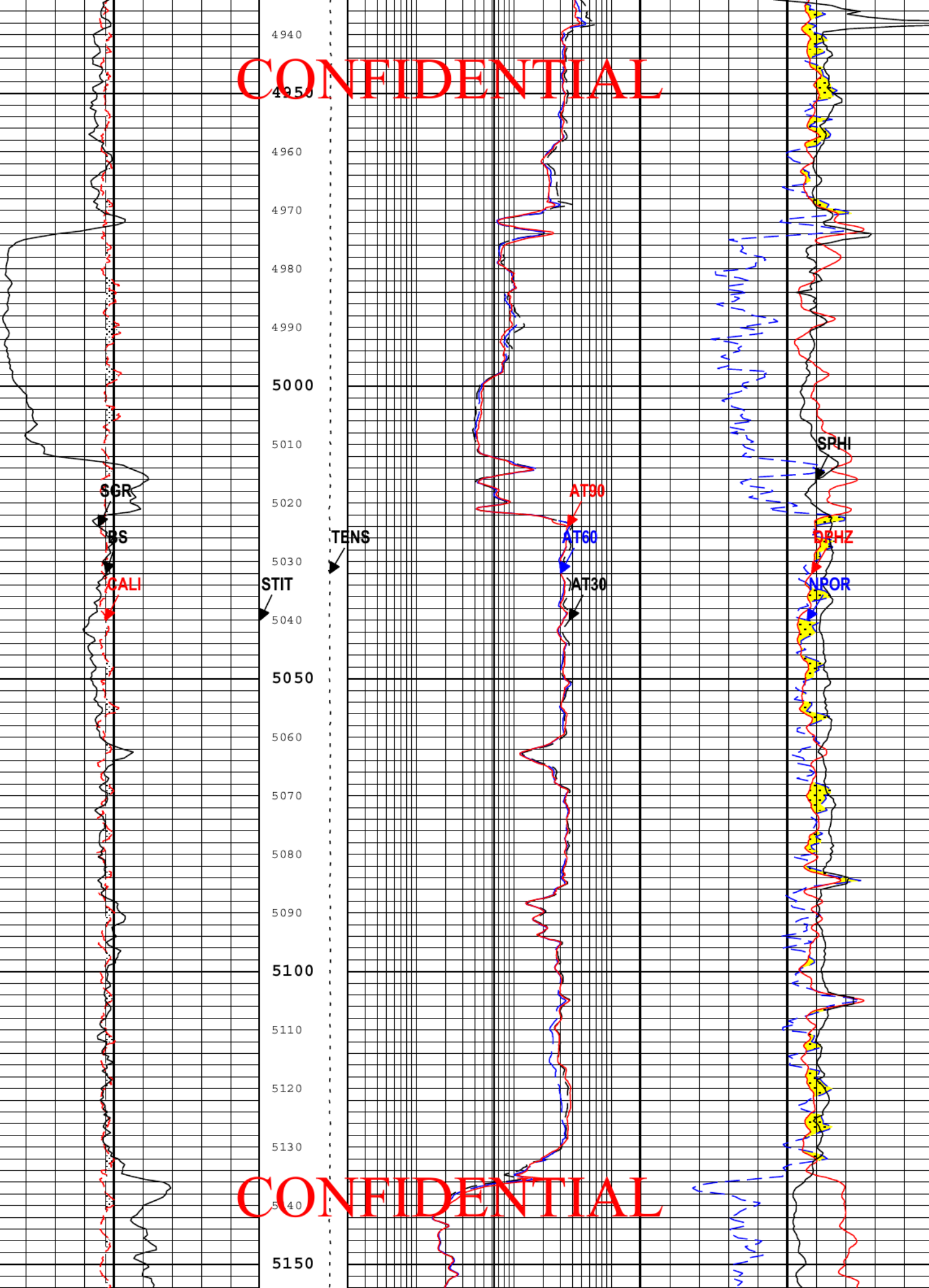
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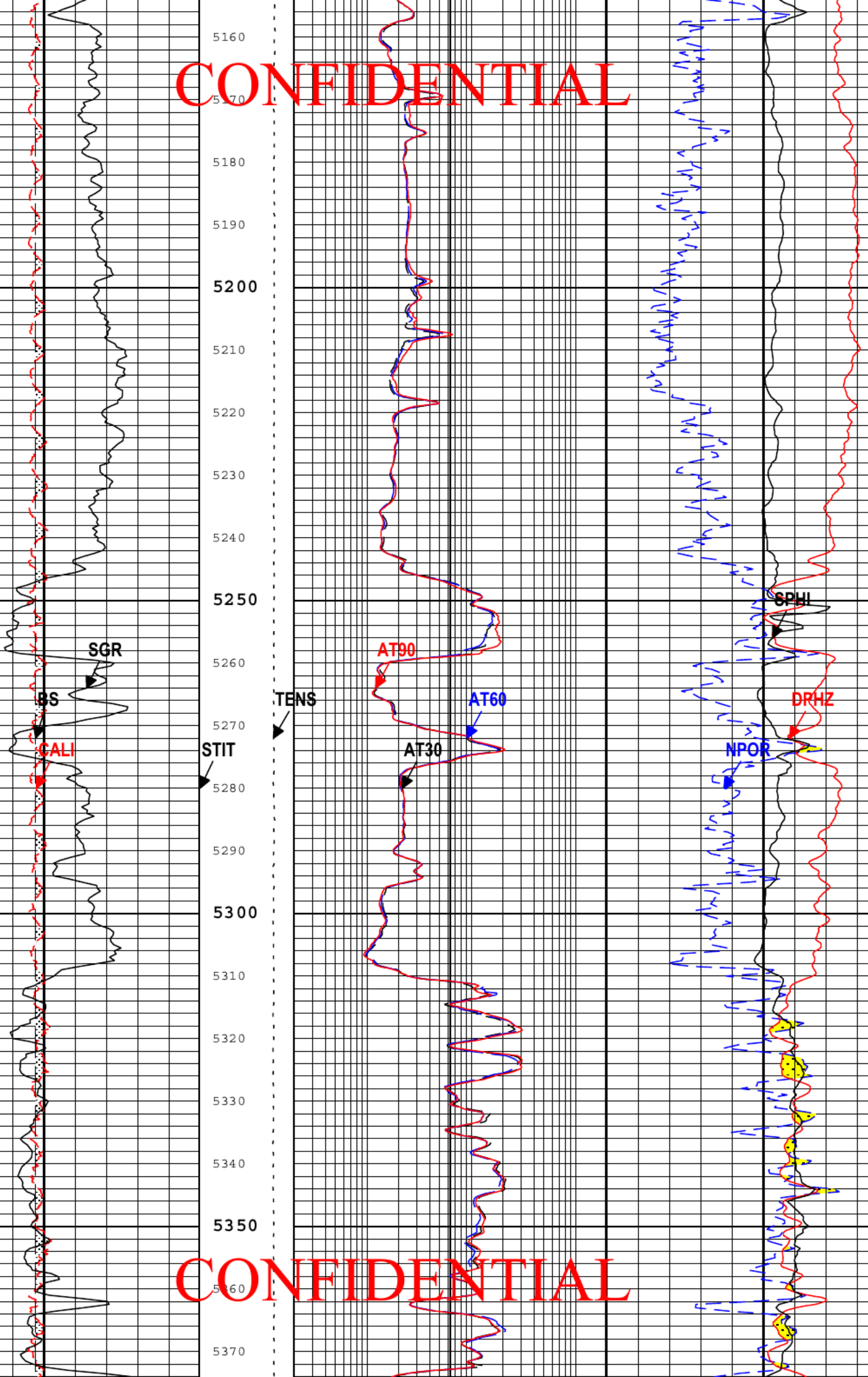
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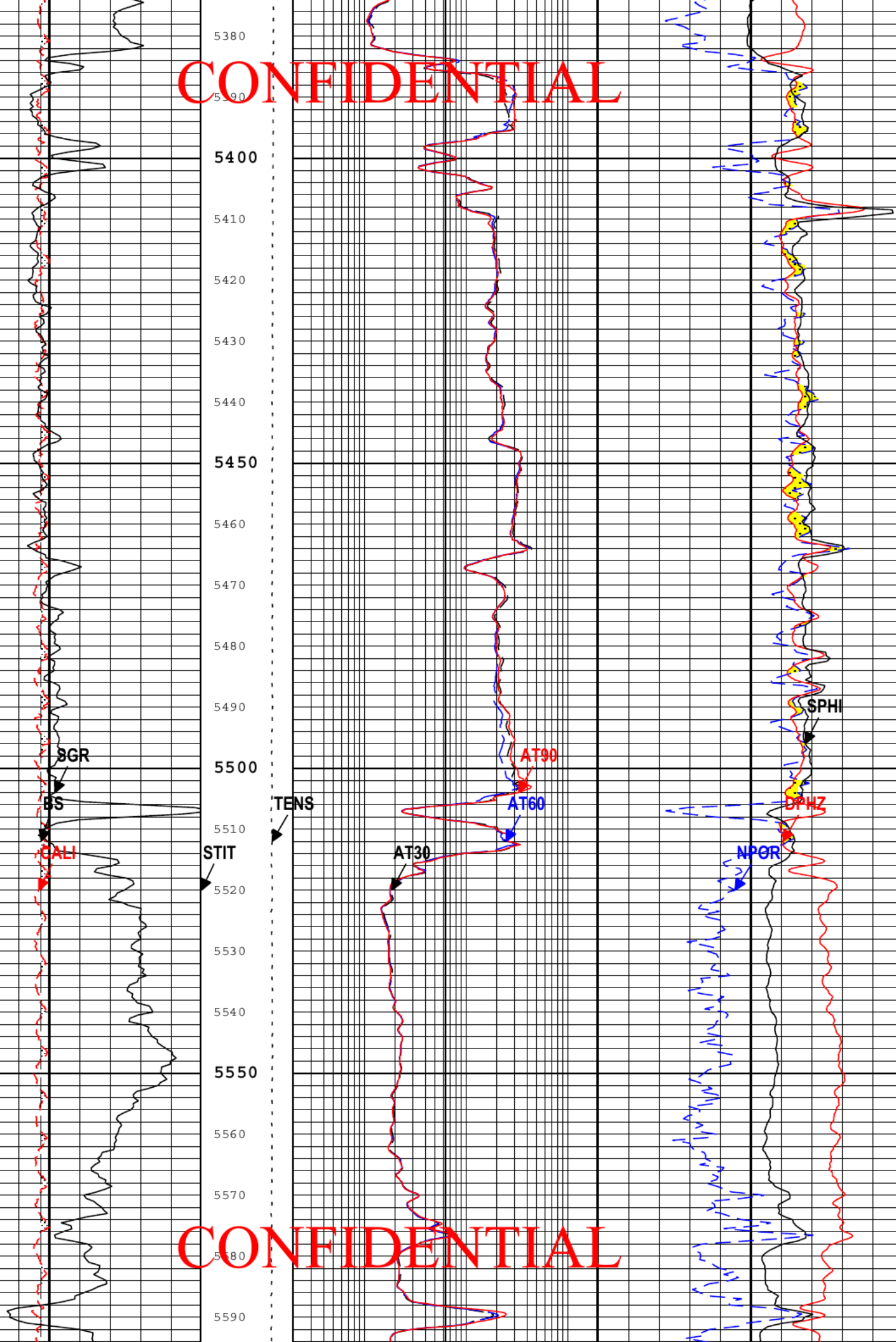
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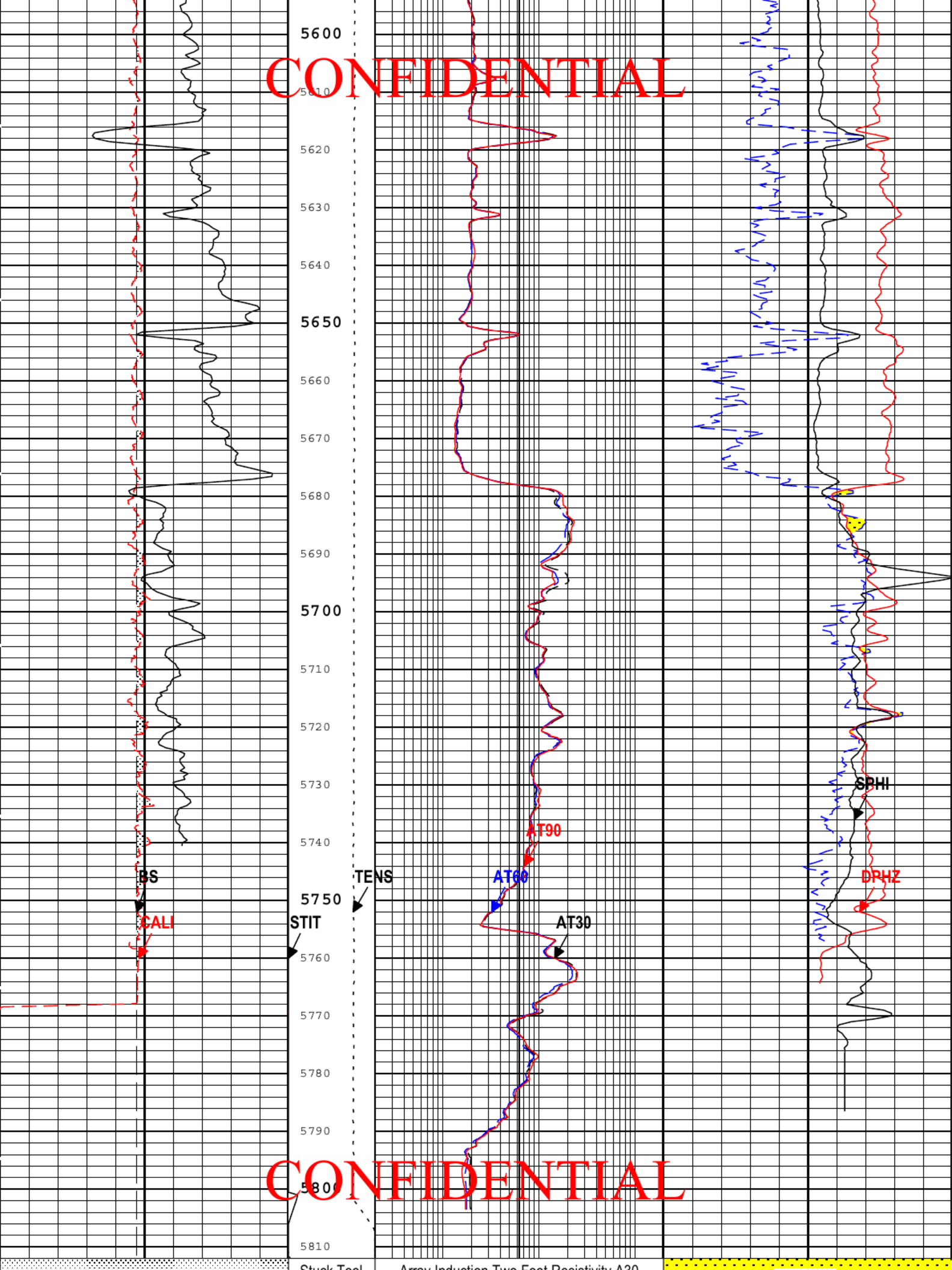
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Stuck Tool

Array Induction Two Foot Resistivity A30

Yellow shaded area at the bottom right of the plot.

Area from BS to Cali	Stuck Tool Indicator, Total (STIT)	Array Induction Two Foot Resistivity A30 (AT30) ZAIT-E	Crossover
Caliper (CALI) HDRS-H	40 ft 50	0.2 ohm.m 200	Enhanced Thermal Neutron Porosity in Selected Lithology (NPOR) HGNS-H
4 in	Cable Tension (TENS)	Array Induction Two Foot Resistivity A60 (AT60) ZAIT-E	ft3/ft3 0
Spectroscopy Gamma Ray (SGR) HGNS-BA	8000 lbf 2000	0.2 ohm.m 200	Standard Resolution Density Porosity (DPHZ) HDRS-H
0 gAPI 150		Array Induction Two Foot Resistivity A90 (AT90) ZAIT-E	0.6 ft3/ft3 0
		0.2 ohm.m 200	Sonic Porosity (SPHI) DSLT-H
			0.6 ft3/ft3 0

TIME_1900 - Time Marked every 60.00 (s)

Description: Format: Log (Combo_Fax) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 04-Aug-2014 04:20:46

Channel Processing Parameters

Parameter	Description	Tool	Value	Unit
AAPL	Array Induction Answer Product Level(Depth Log/View only)	ZAIT-E	Radial	
ABHME	Array Induction Extended Borehole Correction Mode	ZAIT-E	Compute All	
ACDE	Array Induction Casing Detection Enable	ZAIT-E	No	
AIOC	Array Induction Inclination Offset Count	ZAIT-E	0	
AISS	Array Induction Inclination Data Source Selector	ZAIT-E	Auto	
AMSG	Auxiliary Minimum Sliding Gate	DSL-T-H	140	us
ANGDR	Array Induction No Inclination Default Rotation	ZAIT-E	0	deg
AROT	Array Induction Rotation Selector	ZAIT-E	North	
ASTA	Array Induction Tool Standoff	ZAIT-E	1.5	in
ATSE	Array Induction Temperature Selection(Sonde Error Correction)	ZAIT-E	Internal	
BAR1	Detector 1 Barite Constant	HNGS-BA	1	
BAR2	Detector 2 Barite Constant	HNGS-BA	1	
BARI	Barite Mud Presence Flag	Borehole	No	
BHK	Drilling Fluid Potassium Concentration	Borehole	0	%
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BHT	Bottom Hole Temperature	Borehole	242.5	degF
BS	Bit Size	WLSESSION	8.75	in
BSAL	Borehole Salinity	Borehole	0	ppm
BSCO	Borehole Salinity Correction Option	HGNS-H	No	
CALI_SHIFT	CALI Supplementary Offset	HDRS-H	0.23	in
CBLG	CBL Gate Width	DSL-T-H	45	us
CBLO	Casing Bottom (Logger)	WLSESSION	1124	ft
CCCO	Casing & Cement Thickness Correction Option	HGNS-H	No	
CDS	Correction for Delta-T Shale, Empirical	Borehole	100	us/ft
DBCC	Barite Constant Correction Flag	HNGS-BA	None	
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DETE	Delta-T Detection	DSL-T-H	E2	
DFD	Drilling Fluid Density	Borehole	9.3	lbm/gal
DFT	Drilling Fluid Type	Borehole	Oil	
DHC	Density Hole Correction	HDRS-H	Bit Size	
DTCM	Delta-T Computation Mode	DSL-T-H	Full	
DTF	Delta-T Fluid	Borehole	119	us/ft
DTM	Delta-T Matrix	Borehole	56	us/ft
FD	Fluid Density	Borehole	1	g/cm3
FSAL	Formation Salinity	Borehole	0	ppm

FSCO	Formation Salinity Correction Option	HGNS-H	No	
GCLF	Coal-Like Formation	HDRS-H	No	
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BC	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	CLI	
GRSE	Generalized Mud Resistivity Selection, from Measured or Computed Mud Resistivity	Borehole	REMS	
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	CTEM	
H1P	Detector 1 Allow/Disallow in Processing	HNGS-BA	Allow	
H2P	Detector 2 Allow/Disallow in Processing	HNGS-BA	Allow	
HALF	Alpha Filter Length	HNGS-BA	60	in
HATIM	Marquardt Accumulation Time	HNGS-BA	600	s
HCRB	Apply Borehole Potassium Correction	HNGS-BA	None	
HEMA	Hematite Presence Flag	Borehole	No	
HSCO	Hole Size Correction Option	HGNS-H	Yes	
MAHTR	Manual High Threshold Reference for first arrival detection	DSLTH	120	
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	SANDSTONE	
MCCO	Mud Cake Correction Option	HGNS-H	No	
MDEN	Matrix Density for Density Porosity	Borehole	2.65	g/cm3
MNHTR	Minimum High Threshold Reference for first arrival detection	DSLTH	100	
MWCO	Mud Weight Correction Option	HGNS-H	No	
NAAC	Switch for the correction of formation activation by the APS	HDRS-H	Off	
NMSG	Near Minimum Sliding Gate	DSLTH	140	us
NMXG	Near Maximum Sliding Gate	DSLTH	950	us
NPRM	HRDD Nuclear Processing Mode	HDRS-H	Standard Resolution	
NTCO	HRDD Nuclear Temperature Correction Option	HDRS-H	On	
NUMP	Number of Detection Passes	DSLTH	2	
PTCO	Pressure Temperature Correction Option	HGNS-H	Yes	
SFAF	Sonic Formation Attenuation Factor	DSLTH	3.25	dB/ft
SGAD	Sliding Gate Status	DSLTH	On	
SGCL	Sliding Gate Closing Delta-T	DSLTH	130	us/ft
SGCW	Sliding Gate Closing Width	DSLTH	25	us
SGDT	Sliding Gate Delta-T	DSLTH	55	us/ft
SGRC	Standard Gamma Ray Correction Flag	HNGS-BA	Yes	
SGW	Sliding Gate Width	DSLTH	110	us
SLEV	Signal Level for AGC	DSLTH	5000	mV
SOCN	Standoff Distance	HGNS-H	0.125	in
SOCO	Standoff Correction Option	HGNS-H	Yes	
SPFS	Sonic Porosity Formula	Borehole	Raymer-Hunt	
SPSO	Sonic Porosity Source	DSLTH	DT	
TD	Total Measured Depth	Borehole	5801	ft
TPOS	Tool Position: Centered or Eccentered	HNGS-BA	Eccentered	
USER_LOCB	User-supplied values for Magnetic Flux Density	WLSESSION	52999.61	nT
USER_MDEC	User-supplied values for Magnetic Declination	WLSESSION	13.97	deg
USER_MDIP	User-supplied values for Magnetic Dip Angle	WLSESSION	67.57	deg

Tool Control Parameters

Parameter	Description	Tool	Value	Unit
DDEL	Digitizing Delay	DSLTH	0	us
DSLTH_MODE	DSLTH Acquisition Mode	DSLTH	BC	
DSLTH_RATE	DSLTH Firing Rate	DSLTH	15 Hz	
DTFS	DSLTH Telemetry Frame Size	DSLTH	536	

DWCO	Digitizer Word Count	DSL-T-H	250	
HMCA_BRD_TYPE	HMCA Board Type	HGNS-H	1	
HRGD_BRD_TYPE	HRGD Board Type	HDRS-H	WITH_HET	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	TWLSSECTON	1000	ft/h
NDTC	Nuclear Dead Time Correction	HDRS-H	On	
NPUC	Nuclear Pile-Up Correction	HDRS-H	On	
SDTH	Switch Down Threshold	DSL-T-H	20000	
SGAI	Selectable Acquisition Gain	DSL-T-H	Auto	
STSO_HRDD	Temperature Source for the Density Algorithm	HDRS-H	HET data channel	
SUTH	Switch Up Threshold	DSL-T-H	1000	
WMOD	Waveform Firing Mode	DSL-T-H	Full	

ONE

Repeat

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Repeat[2]:Up	Up	5185.18 ft	5814.76 ft	04-Aug-2014 12:03:16 AM	04-Aug-2014 12:15:06 AM	ON	1.30 ft	No
ONE	Main[4]:Up	Up	1079.24 ft	5811.97 ft	04-Aug-2014 12:35:16 AM	04-Aug-2014 3:17:12 AM	ON	-0.68 ft	No

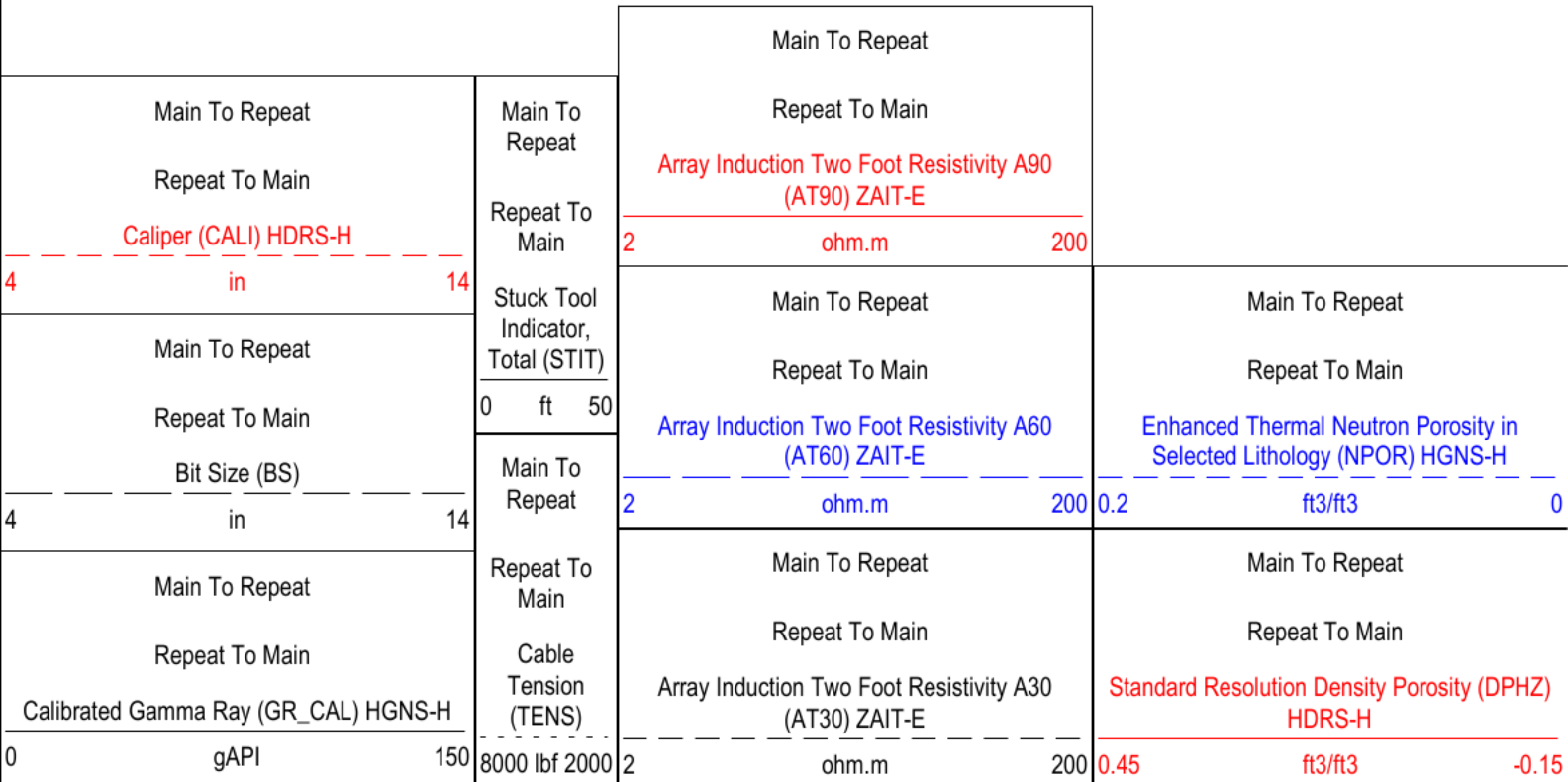
All depths are referenced to toolstring zero

Log

Company:Alta Mesa Services Well:Kauffman 1-34
ONE: Main[4]:Up:S004

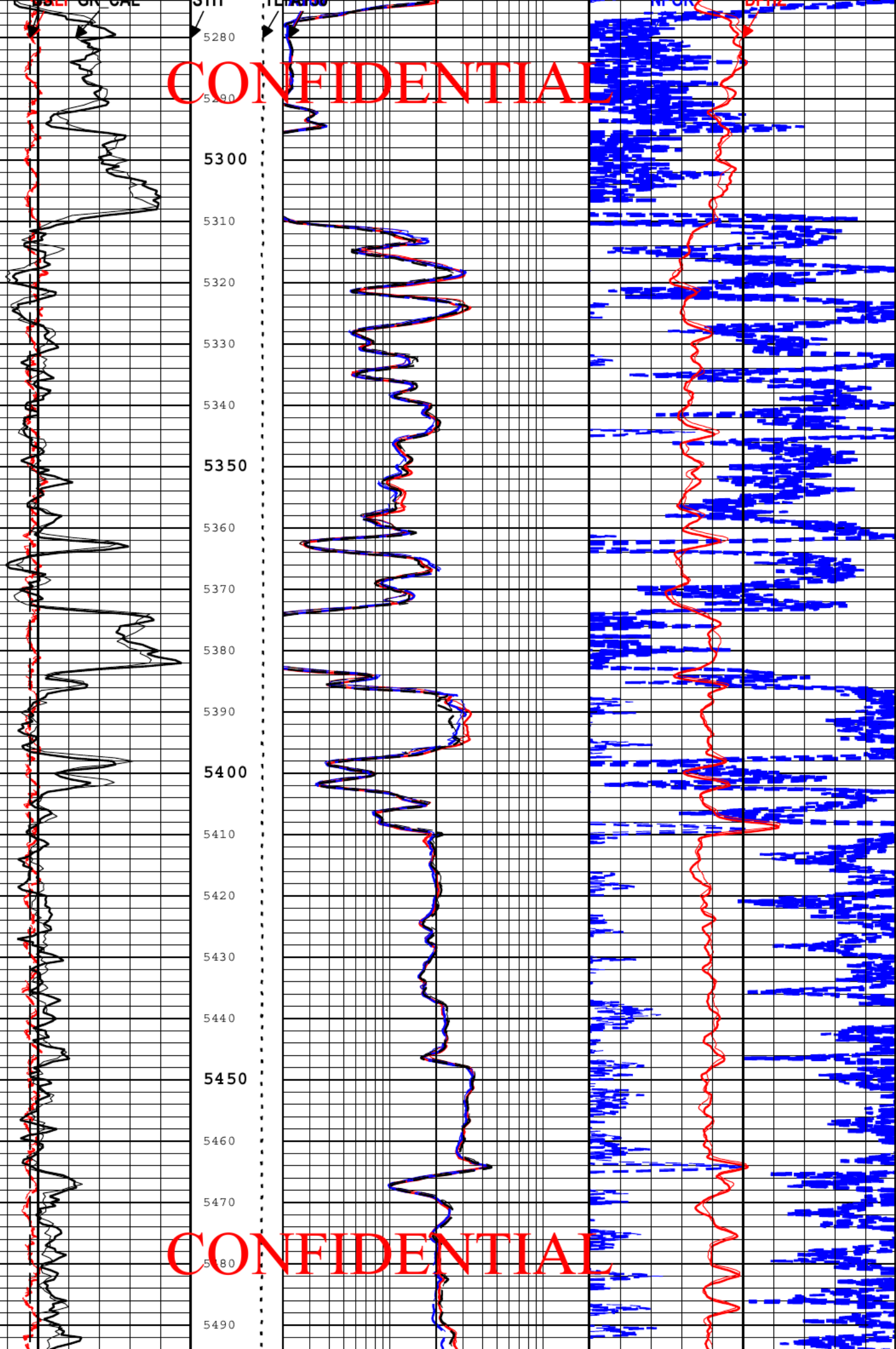
Description: Format: Log (Combo_Fax RA) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 04-Aug-2014 04:20:50

TIME_1900 - Time Marked every 60.00 (s)



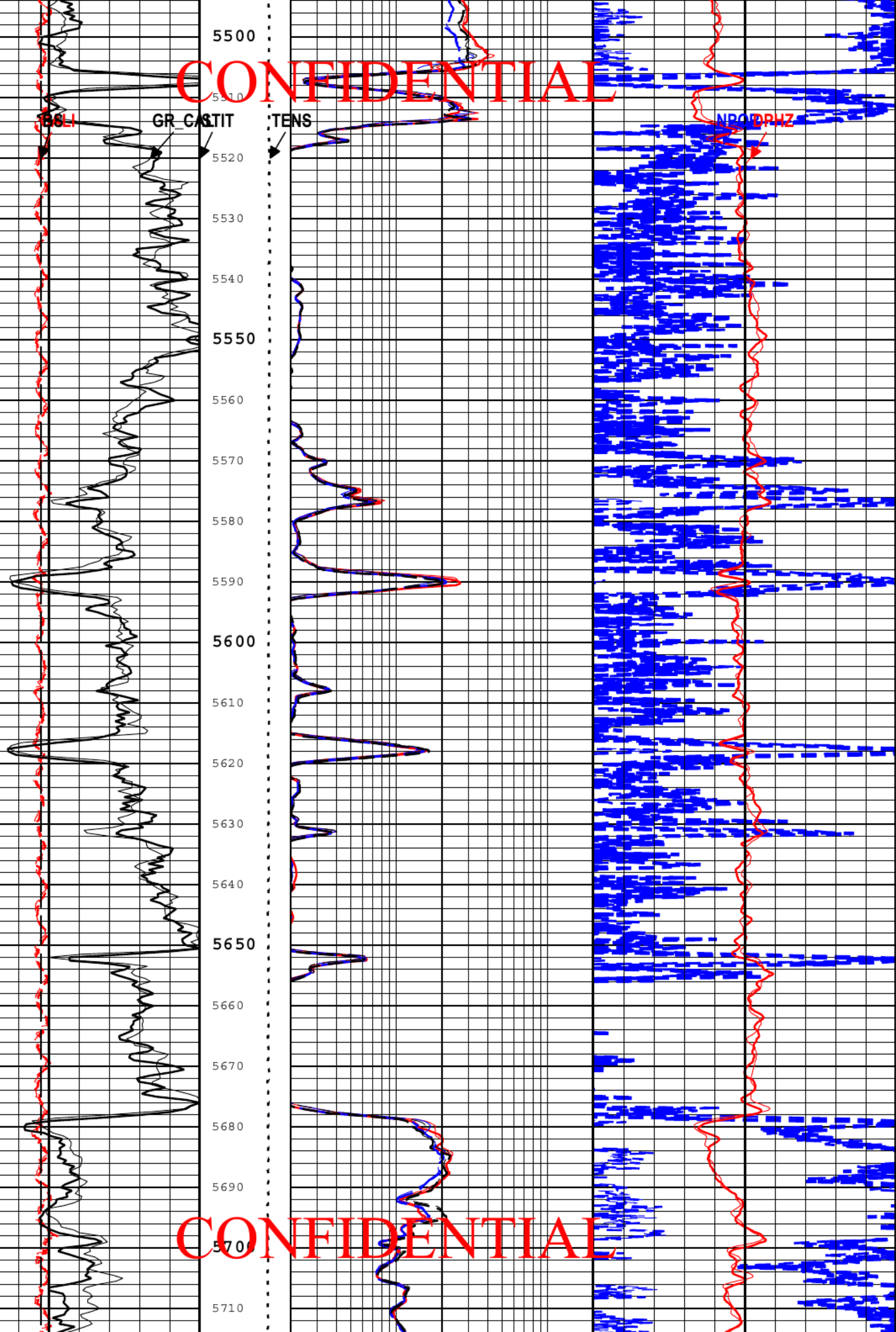
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Test Loop Phase - 8		deg	Master	0	----	-0.519	----		
Test Loop Gain - 9			Master	1.000	----	0.962	----		
Test Loop Phase - 9		deg	Master	0	----	0.063	----		
Test Loop Gain - 10			Master	0.0	----	1.042	----		
Test Loop Phase - 10		deg	Master	0	----	2.148	----		
Test Loop Gain - 11			Master	1.000	----	1.029	----		
Test Loop Phase - 11		deg	Master	0	----	-0.219	----		
Test Loop Gain - 12			Master	1.000	----	0.941	----		
Test Loop Phase - 12		deg	Master	0	----	0.426	----		
Test Loop Gain - 13			Master	1.000	----	0.961	----		
Test Loop Phase - 13		deg	Master	0	----	0.325	----		
Test Loop Gain - 14			Master	1.000	----	1.021	----		
Test Loop Phase - 14		deg	Master	0	----	-0.022	----		
Test Loop Gain - 15			Master	1.000	----	1.016	----		
Test Loop Phase - 15		deg	Master	0	----	-1.359	----		
Test Loop Gain - 16			Master	1.000	----	1.019	----		
Test Loop Phase - 16		deg	Master	0	----	-1.108	----		
Test Loop Gain - 17			Master	1.000	----	1.006	----		
Test Loop Phase - 17		deg	Master	0	----	-0.446	----		
Test Loop Gain - 18			Master	1.000	----	0.947	----		
Test Loop Phase - 18		deg	Master	0	----	0.095	----		
Test Loop Gain - 19			Master	1.000	----	1.026	----		
Test Loop Phase - 19		deg	Master	0	----	1.393	----		
Test Loop Gain - 20			Master	1.000	----	1.027	----		
Test Loop Phase - 20		deg	Master	0	----	-0.128	----		
Test Loop Gain - 21			Master	1.000	----	0.930	----		
Test Loop Phase - 21		deg	Master	0	----	0.682	----		
Test Loop Gain - 22			Master	1.000	----	0.952	----		
Test Loop Phase - 22		deg	Master	0	----	0.582	----		
Test Loop Gain - 23			Master	1.000	----	1.018	----		
Test Loop Phase - 23		deg	Master	0	----	0.269	----		
Test Loop Gain - 24			Master	1.000	----	1.039	----		
Test Loop Phase - 24		deg	Master	0	----	-0.917	----		
Test Loop Gain - 25			Master	1.000	----	1.047	----		
Test Loop Phase - 25		deg	Master	0	----	-0.674	----		
Test Loop Gain - 26			Master	1.000	----	1.010	----		
Test Loop Phase - 26		deg	Master	0	----	-0.455	----		
Test Loop Gain - 27			Master	1.000	----	0.975	----		
Test Loop Phase - 27		deg	Master	0	----	1.354	----		
Test Loop Gain - 28			Master	1.000	----	1.004	----		
Test Loop Phase - 28		deg	Master	0	----	0.797	----		
Test Loop Gain - 29			Master	1.000	----	1.026	----		
Test Loop Phase - 29		deg	Master	0	----	0.636	----		
Test Loop Gain - 30			Master	1.000	----	0.971	----		
Test Loop Phase - 30		deg	Master	0	----	1.508	----		
Test Loop Gain - 31			Master	1.000	----	0.966	----		
Test Loop Phase - 31		deg	Master	0	----	1.665	----		
Test Loop Gain - 32			Master	1.000	----	1.014	----		
Test Loop Phase - 32		deg	Master	0	----	0.636	----		
Test Loop Gain - 33			Master	1.000	----	1.050	----		
Test Loop Phase - 33		deg	Master	0	----	1.257	----		
Test Loop Gain - 34			Master	1.000	----	1.044	----		
Test Loop Phase - 34		deg	Master	0	----	1.580	----		
Test Loop Gain - 35			Master	1.000	----	1.004	----		
Test Loop Phase - 35		deg	Master	0	----	-0.292	----		
Test Loop Gain - 36			Master	1.000	----	0.977	----		
Test Loop Phase - 36		deg	Master	0	----	0.135	----		
Test Loop Gain - 37			Master	1.000	----	1.010	----		
Test Loop Phase - 37		deg	Master	0	----	-0.204	----		
Test Loop Gain - 38			Master	0.0	----	1.022	----		
Test Loop Phase - 38		deg	Master	0	----	0.374	----		
Test Loop Gain - 39			Master	1.000	----	0.970	----		
Test Loop Phase - 39		deg	Master	0	----	0.443	----		
Test Loop Gain - 40			Master	1.000	----	0.965	----		
Test Loop Phase - 40		deg	Master	0	----	0.586	----		

Test Loop Gain - 41		Master	1.000	----	1.005	----	
Test Loop Phase - 41	deg	Master	0	----	0.614	----	
Test Loop Gain - 42		Master	1.000	----	1.047	----	
Test Loop Phase - 42	deg	Master	0	----	-0.031	----	
Test Loop Gain - 43		Master	1.000	----	1.042	----	
Test Loop Phase - 43	deg	Master	0	----	0.135	----	
Test Loop Gain - 44		Master	1.000	----	1.000	----	
Test Loop Phase - 44	deg	Master	0	----	-0.333	----	
Test Loop Gain - 45		Master	1.000	----	1.052	----	
Test Loop Phase - 45	deg	Master	0	----	0.026	----	
Test Loop Gain - 46		Master	1.000	----	1.081	----	
Test Loop Phase - 46	deg	Master	0	----	0.486	----	
Test Loop Gain - 47		Master	1.000	----	1.018	----	
Test Loop Phase - 47	deg	Master	0	----	-0.177	----	
Test Loop Gain - 48		Master	1.000	----	1.036	----	
Test Loop Phase - 48	deg	Master	0	----	0.431	----	
Test Loop Gain - 49		Master	1.000	----	1.051	----	
Test Loop Phase - 49	deg	Master	0	----	0.294	----	
Test Loop Gain - 50		Master	1.000	----	1.027	----	
Test Loop Phase - 50	deg	Master	0	----	0.175	----	
Test Loop Gain - 51		Master	1.000	----	1.031	----	
Test Loop Phase - 51	deg	Master	0	----	-0.083	----	
Test Loop Gain - 52		Master	1.000	----	1.037	----	
Test Loop Phase - 52	deg	Master	0	----	0.005	----	
Test Loop Gain - 53		Master	1.000	----	1.015	----	
Test Loop Phase - 53	deg	Master	0	----	-0.134	----	
Test Loop Gain - 54		Master	1.000	----	1.044	----	
Test Loop Phase - 54	deg	Master	0	----	-0.634	----	
Test Loop Gain - 55		Master	1.000	----	1.071	----	
Test Loop Phase - 55	deg	Master	0	----	-0.285	----	
Test Loop Gain - 56		Master	1.000	----	1.016	----	
Test Loop Phase - 56	deg	Master	0	----	-0.810	----	
Test Loop Gain - 57		Master	1.000	----	1.025	----	
Test Loop Phase - 57	deg	Master	0	----	-0.156	----	
Test Loop Gain - 58		Master	1.000	----	1.039	----	
Test Loop Phase - 58	deg	Master	0	----	-0.189	----	
Test Loop Gain - 59		Master	1.000	----	1.021	----	
Test Loop Phase - 59	deg	Master	0	----	-0.361	----	
Test Loop Gain - 60		Master	1.000	----	1.026	----	
Test Loop Phase - 60	deg	Master	0	----	-0.948	----	
Test Loop Gain - 61		Master	1.000	----	1.033	----	
Test Loop Phase - 61	deg	Master	0	----	-0.884	----	
Test Loop Gain - 62		Master	1.000	----	1.016	----	
Test Loop Phase - 62	deg	Master	0	----	-1.036	----	
Test Loop Gain - 63		Master	1.000	----	1.050	----	
Test Loop Phase - 63	deg	Master	0	----	0.049	----	
Test Loop Gain - 64		Master	1.000	----	1.035	----	
Test Loop Phase - 64	deg	Master	0	----	0.782	----	
Test Loop Gain - 65		Master	1.000	----	1.036	----	
Test Loop Phase - 65	deg	Master	0	----	0.193	----	
Test Loop Gain - 66		Master	1.000	----	1.075	----	
Test Loop Phase - 66	deg	Master	0	----	0.406	----	
Test Loop Gain - 67		Master	1.000	----	1.044	----	
Test Loop Phase - 67	deg	Master	0	----	0.233	----	
Test Loop Gain - 68		Master	1.000	----	1.025	----	
Test Loop Phase - 68	deg	Master	0	----	0.391	----	
Test Loop Gain - 69		Master	1.000	----	1.027	----	
Test Loop Phase - 69	deg	Master	0	----	-0.215	----	
Test Loop Gain - 70		Master	1.000	----	1.029	----	
Test Loop Phase - 70	deg	Master	0	----	-0.177	----	
Test Loop Gain - 71		Master	1.000	----	1.017	----	
Test Loop Phase - 71	deg	Master	0	----	-0.094	----	
Test Loop Gain - 72		Master	1.000	----	1.028	----	
Test Loop Phase - 72	deg	Master	0	----	-0.720	----	

Test Loop Gain - 73		Master	1.000	----	1.012	----		
Test Loop Phase - 73	deg	Master	0	----	-0.453	----		
Test Loop Gain - 74		Master	1.000	----	1.034	----		
Test Loop Phase - 74	deg	Master	0	----	-0.576	----		
Test Loop Gain - 75		Master	1.000	----	1.047	----		
Test Loop Phase - 75	deg	Master	0	----	-0.294	----		
Test Loop Gain - 76		Master	1.000	----	1.018	----		
Test Loop Phase - 76	deg	Master	0	----	-0.364	----		
Test Loop Gain - 77		Master	1.000	----	1.021	----		
Test Loop Phase - 77	deg	Master	0	----	-0.228	----		
Test Loop Gain - 78		Master	1.000	----	1.008	----		
Test Loop Phase - 78	deg	Master	0	----	-1.068	----		
Test Loop Gain - 79		Master	1.000	----	1.011	----		
Test Loop Phase - 79	deg	Master	0	----	-1.050	----		
Test Loop Gain - 80		Master	1.000	----	1.019	----		
Test Loop Phase - 80	deg	Master	0	----	-0.902	----		
Test Loop Gain - 81		Master	1.000	----	1.015	----		
Test Loop Phase - 81	deg	Master	0	----	-0.076	----		
Test Loop Gain - 82		Master	1.000	----	1.015	----		
Test Loop Phase - 82	deg	Master	0	----	-0.150	----		
Test Loop Gain - 83		Master	1.000	----	1.025	----		
Test Loop Phase - 83	deg	Master	0	----	0.063	----		
Test Loop Gain - 84		Master	1.000	----	1.027	----		
Test Loop Phase - 84	deg	Master	0	----	-0.071	----		
Test Loop Gain - 85		Master	1.000	----	1.014	----		
Test Loop Phase - 85	deg	Master	0	----	0.165	----		
Test Loop Gain - 86		Master	1.000	----	1.012	----		
Test Loop Phase - 86	deg	Master	0	----	0.194	----		
Test Loop Gain - 87		Master	1.000	----	1.042	----		
Test Loop Phase - 87	deg	Master	0	----	-0.408	----		
Test Loop Gain - 88		Master	1.000	----	1.033	----		
Test Loop Phase - 88	deg	Master	0	----	0.024	----		
Test Loop Gain - 89		Master	1.000	----	1.025	----		
Test Loop Phase - 89	deg	Master	0	----	-0.273	----		
Test Loop Gain - 90		Master	1.000	----	0.999	----		
Test Loop Phase - 90	deg	Master	0	----	-0.638	----		
Test Loop Gain - 91		Master	1.000	----	1.001	----		
Test Loop Phase - 91	deg	Master	0	----	-0.680	----		
Test Loop Gain - 92		Master	1.000	----	1.019	----		
Test Loop Phase - 92	deg	Master	0	----	-0.525	----		
Test Loop Gain - 93		Master	1.000	----	1.012	----		
Test Loop Phase - 93	deg	Master	0	----	-0.333	----		
Test Loop Gain - 94		Master	1.000	----	0.999	----		
Test Loop Phase - 94	deg	Master	0	----	-0.135	----		
Test Loop Gain - 95		Master	1.000	----	1.004	----		
Test Loop Phase - 95	deg	Master	0	----	-0.106	----		
Test Loop Gain - 96		Master	1.000	----	1.027	----		
Test Loop Phase - 96	deg	Master	0	----	-0.645	----		
Test Loop Gain - 97		Master	1.000	----	1.016	----		
Test Loop Phase - 97	deg	Master	0	----	-0.409	----		
Test Loop Gain - 98		Master	1.000	----	1.013	----		
Test Loop Phase - 98	deg	Master	0	----	-0.946	----		
Test Loop Gain - 99		Master	1.000	----	1.005	----		
Test Loop Phase - 99	deg	Master	0	----	-0.163	----		
Test Loop Gain - 100		Master	1.000	----	1.025	----		
Test Loop Phase - 100	deg	Master	0	----	0.004	----		
Test Loop Gain - 101		Master	1.000	----	1.010	----		
Test Loop Phase - 101	deg	Master	0	----	-0.592	----		
Test Loop Gain - 102		Master	1.000	----	1.012	----		
Test Loop Phase - 102	deg	Master	0	----	0.142	----		
Test Loop Gain - 103		Master	1.000	----	1.012	----		
Test Loop Phase - 103	deg	Master	0	----	0.112	----		
Test Loop Gain - 104		Master	1.000	----	0.979	----		
Test Loop Phase - 104	deg	Master	0	----	0.311	----		
Test Loop Gain - 105		Master	1.000	----	1.002	----		

Test Loop Phase - 105	deg	Master	0	----	-0.626	----	
Test Loop Gain - 106		Master	1.000	----	0.999	----	
Test Loop Phase - 106	deg	Master	0	----	-0.581	----	
Test Loop Gain - 107		Master	1.000	----	1.012	----	
Test Loop Phase - 107	deg	Master	0	----	-0.318	----	
Test Loop Gain - 108		Master	1.000	----	0.985	----	
Test Loop Phase - 108	deg	Master	0	----	-0.714	----	
Test Loop Gain - 109		Master	1.000	----	1.006	----	
Test Loop Phase - 109	deg	Master	0	----	-0.636	----	
Test Loop Gain - 110		Master	1.000	----	0.926	----	
Test Loop Phase - 110	deg	Master	0	----	-0.935	----	
Test Loop Gain - 111		Master	1.000	----	0.992	----	
Test Loop Phase - 111	deg	Master	0	----	-0.370	----	
Test Loop Gain - 112		Master	1.000	----	0.991	----	
Test Loop Phase - 112	deg	Master	0	----	-0.394	----	
Test Loop Gain - 113		Master	1.000	----	0.906	----	
Test Loop Phase - 113	deg	Master	0	----	-0.382	----	
Test Loop Gain - 114		Master	1.000	----	0.967	----	
Test Loop Phase - 114	deg	Master	0	----	-1.323	----	
Test Loop Gain - 115		Master	1.000	----	0.961	----	
Test Loop Phase - 115	deg	Master	0	----	-1.313	----	
Test Loop Gain - 116		Master	1.000	----	1.008	----	
Test Loop Phase - 116	deg	Master	0	----	-0.811	----	

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AIT Master Calibration - Sonde Error Correction

Master (EEPROM): 03:09:36 14-Dec-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Sonde Error Correction Real - 0	mS/m	Master	----	-2899.500	112.225	3339.700	
Sonde Error Correction Quad - 0		Master	----	-41397.000	4084.254	55036.000	
Sonde Error Correction Real - 1	mS/m	Master	----	-2921.000	32.314	3318.200	
Sonde Error Correction Quad - 1		Master	----	-42973.000	3870.522	53460.000	
Sonde Error Correction Real - 2	mS/m	Master	----	-2357.400	-1371.772	-506.600	
Sonde Error Correction Quad - 2		Master	----	-5751.600	2053.553	6763.000	
Sonde Error Correction Real - 3	mS/m	Master	----	-556.300	7.974	481.900	
Sonde Error Correction Quad - 3		Master	----	-9896.500	1674.891	13364.000	
Sonde Error Correction Real - 4	mS/m	Master	----	-447.400	27.868	590.800	
Sonde Error Correction Quad - 4		Master	----	-10406.000	1224.680	12854.000	
Sonde Error Correction Real - 5	mS/m	Master	----	21.600	183.689	406.200	
Sonde Error Correction Quad - 5		Master	----	-2452.800	-200.176	2452.800	
Sonde Error Correction Real - 6	mS/m	Master	----	-139.400	-3.820	145.000	
Sonde Error Correction Quad - 6		Master	----	-3193.800	720.794	5195.000	
Sonde Error Correction Real - 7	mS/m	Master	----	-108.800	13.458	175.600	
Sonde Error Correction Quad - 7		Master	----	-3994.000	380.669	4394.800	
Sonde Error Correction Real - 8	mS/m	Master	----	-81.900	2.780	76.900	
Sonde Error Correction Quad - 8		Master	----	-919.800	129.375	876.000	
Sonde Error Correction Real - 9	mS/m	Master	----	-687.200	-319.268	-32.600	
Sonde Error Correction Quad - 9		Master	----	-1224.100	173.069	1567.500	
Sonde Error Correction Real - 10	mS/m	Master	----	-841.300	-237.248	926.900	
Sonde Error Correction Quad - 10		Master	----	-26207.000	3748.008	24836.000	
Sonde Error Correction Real - 11	mS/m	Master	----	-385.000	-7.641	334.800	
Sonde Error Correction Quad - 11		Master	----	-8870.400	-41.885	10729.000	
Sonde Error Correction Real - 12	mS/m	Master	----	-941.900	80.631	826.300	
Sonde Error Correction Quad - 12		Master	----	-23951.000	-2779.682	27092.000	
Sonde Error Correction Real - 13	mS/m	Master	----	-693.800	-348.755	-26.000	
Sonde Error Correction Quad - 13		Master	----	-1468.500	-245.052	1323.100	
Sonde Error Correction Real - 14	mS/m	Master	----	-326.700	12.191	393.100	
Sonde Error Correction Quad - 14		Master	----	-9467.400	265.345	10132.000	
Sonde Error Correction Real - 15	mS/m	Master	----	-324.300	-5.534	249.300	
Sonde Error Correction Quad - 15		Master	----	-13751.000	-1043.635	17634.000	
Sonde Error Correction Real - 16	mS/m	Master	----	-214.800	-1.124	358.800	
Sonde Error Correction Quad - 16		Master	----	-17344.000	-761.020	13540.000	
Sonde Error Correction Real - 17	mS/m	Master	----	-9.100	37.845	135.700	
Sonde Error Correction Quad - 17		Master	----	-897.000	-110.966	1120.400	
Sonde Error Correction Real - 18	mS/m	Master	----	-344.500	-121.385	54.500	
Sonde Error Correction Quad - 18		Master	----	-651.100	6.150	672.100	

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Sonde Error Correction Real - 19	mS/m	Master	----	-294.600	-78.150	327.400	
Sonde Error Correction Quad - 19		Master	----	-12891.000	1840.327	12222.000	
Sonde Error Correction Real - 20	mS/m	Master	----	-128.800	-1.715	117.200	
Sonde Error Correction Quad - 20		Master	----	-425.900	-22.977	5344.100	
Sonde Error Correction Real - 21	mS/m	Master	----	-332.100	30.451	289.900	
Sonde Error Correction Quad - 21		Master	----	-11783.000	-1373.616	13330.000	
Sonde Error Correction Real - 22	mS/m	Master	----	-354.800	-148.952	64.800	
Sonde Error Correction Quad - 22		Master	----	-773.500	-176.345	549.700	
Sonde Error Correction Real - 23	mS/m	Master	----	-111.400	4.404	134.600	
Sonde Error Correction Quad - 23		Master	----	-4715.700	134.590	5054.300	
Sonde Error Correction Real - 24	mS/m	Master	----	-196.800	-9.221	188.400	
Sonde Error Correction Quad - 24		Master	----	-6819.500	-521.469	8738.500	
Sonde Error Correction Real - 25	mS/m	Master	----	-166.400	1.316	218.800	
Sonde Error Correction Quad - 25		Master	----	-8849.300	-386.176	6708.700	
Sonde Error Correction Real - 26	mS/m	Master	----	-22.000	8.719	34.400	
Sonde Error Correction Quad - 26		Master	----	-468.300	-80.321	531.300	
Sonde Error Correction Real - 27	mS/m	Master	----	-136.000	-23.656	82.000	
Sonde Error Correction Quad - 27		Master	----	-1294.700	204.746	1788.900	
Sonde Error Correction Real - 28	mS/m	Master	----	-256.100	125.539	264.100	
Sonde Error Correction Quad - 28		Master	----	-9974.600	-3112.764	9816.400	
Sonde Error Correction Real - 29	mS/m	Master	----	-123.200	8.469	131.800	
Sonde Error Correction Quad - 29		Master	----	-3318.000	453.806	3724.000	
Sonde Error Correction Real - 30	mS/m	Master	----	-238.100	-68.772	282.100	
Sonde Error Correction Quad - 30		Master	----	-10490.000	1579.178	9301.500	
Sonde Error Correction Real - 31	mS/m	Master	----	-136.000	-20.546	82.000	
Sonde Error Correction Quad - 31		Master	----	-1047.000	144.335	2036.600	
Sonde Error Correction Real - 32	mS/m	Master	----	-104.800	7.640	150.200	
Sonde Error Correction Quad - 32		Master	----	-3528.100	-268.106	3513.900	
Sonde Error Correction Real - 33	mS/m	Master	----	-203.400	-10.522	137.600	
Sonde Error Correction Quad - 33		Master	----	-6312.100	522.858	7550.300	
Sonde Error Correction Real - 34	mS/m	Master	----	-152.100	9.857	188.900	
Sonde Error Correction Quad - 34		Master	----	-7387.300	-37.342	6475.100	
Sonde Error Correction Real - 35	mS/m	Master	----	87.100	119.938	160.700	
Sonde Error Correction Quad - 35		Master	----	-569.100	10.692	466.900	
Sonde Error Correction Real - 36	mS/m	Master	----	-98.300	-43.519	24.700	
Sonde Error Correction Quad - 36		Master	----	-758.300	-9.058	791.100	
Sonde Error Correction Real - 37	mS/m	Master	----	-102.200	22.138	107.000	
Sonde Error Correction Quad - 37		Master	----	-4976.900	-1560.762	4905.700	
Sonde Error Correction Real - 38	mS/m	Master	----	-29.500	9.153	44.500	
Sonde Error Correction Quad - 38		Master	----	-1658.100	229.567	1862.900	
Sonde Error Correction Real - 39	mS/m	Master	----	-97.900	-10.348	111.300	
Sonde Error Correction Quad - 39		Master	----	-5239.100	796.718	4643.500	
Sonde Error Correction Real - 40	mS/m	Master	----	-98.300	-39.955	24.700	
Sonde Error Correction Quad - 40		Master	----	-646.000	-48.933	903.400	
Sonde Error Correction Real - 41	mS/m	Master	----	-30.100	4.289	43.900	
Sonde Error Correction Quad - 41		Master	----	-1761.800	-134.054	1759.200	
Sonde Error Correction Real - 42	mS/m	Master	----	-147.000	8.032	125.200	
Sonde Error Correction Quad - 42		Master	----	-3194.900	260.666	3794.500	
Sonde Error Correction Real - 43	mS/m	Master	----	-133.200	6.653	139.000	
Sonde Error Correction Quad - 43		Master	----	-3719.800	-15.869	3269.600	
Sonde Error Correction Real - 44	mS/m	Master	----	46.500	49.679	71.300	
Sonde Error Correction Quad - 44		Master	----	-231.700	55.392	278.900	
Sonde Error Correction Real - 45	mS/m	Master	----	-68.200	-20.905	10.600	
Sonde Error Correction Quad - 45		Master	----	-424.400	-13.488	836.400	
Sonde Error Correction Real - 46	mS/m	Master	----	-209.000	-36.836	222.000	
Sonde Error Correction Quad - 46		Master	----	-8856.000	1092.933	8698.800	
Sonde Error Correction Real - 47	mS/m	Master	----	-79.100	-4.168	65.300	
Sonde Error Correction Quad - 47		Master	----	-1582.400	-75.839	2189.600	
Sonde Error Correction Real - 48	mS/m	Master	----	-222.200	38.118	208.800	
Sonde Error Correction Quad - 48		Master	----	8069.800	1314.495	8885.000	
Sonde Error Correction Real - 49	mS/m	Master	----	-47.500	-21.340	11.300	
Sonde Error Correction Quad - 49		Master	----	-483.300	140.984	777.500	
Sonde Error Correction Real - 50	mS/m	Master	----	-61.900	4.237	82.500	
Sonde Error Correction Quad - 50		Master	----	-1972.600	-263.990	1799.400	
Sonde Error Correction Real - 51	mS/m	Master	----	-69.600	-3.661	57.800	

Sonde Error Correction Quad - 51		Master	----	-3010.100	-180.968	3497.900	
Sonde Error Correction Real - 52	mS/m	Master	----	-52.400	14.422	75.000	
Sonde Error Correction Quad - 52		Master	----	-3659.900	-573.709	2848.100	
Sonde Error Correction Real - 53	mS/m	Master	----	37.300	55.162	73.300	
Sonde Error Correction Quad - 53		Master	----	-180.700	-6.470	179.500	
Sonde Error Correction Real - 54	mS/m	Master	----	-99.500	-62.226	-29.900	
Sonde Error Correction Quad - 54		Master	----	-309.400	-49.891	376.500	
Sonde Error Correction Real - 55	mS/m	Master	----	-25.400	-8.382	26.800	
Sonde Error Correction Quad - 55		Master	----	-4426.300	545.046	4351.300	
Sonde Error Correction Real - 56	mS/m	Master	----	-24.000	-1.653	23.200	
Sonde Error Correction Quad - 56		Master	----	-798.900	-42.745	1099.900	
Sonde Error Correction Real - 57	mS/m	Master	----	-25.400	7.447	26.800	
Sonde Error Correction Quad - 57		Master	----	-4335.900	-653.299	4441.700	
Sonde Error Correction Real - 58	mS/m	Master	----	-99.000	-60.324	-29.400	
Sonde Error Correction Quad - 58		Master	----	-426.900	26.371	426.900	
Sonde Error Correction Real - 59	mS/m	Master	----	-21.400	0.243	25.800	
Sonde Error Correction Quad - 59		Master	----	-992.100	-133.017	906.700	
Sonde Error Correction Real - 60	mS/m	Master	----	-17.700	-1.891	15.100	
Sonde Error Correction Quad - 60		Master	----	-1518.500	-95.619	1750.900	
Sonde Error Correction Real - 61	mS/m	Master	----	-13.800	4.240	19.000	
Sonde Error Correction Quad - 61		Master	----	-1836.100	-286.006	1433.300	
Sonde Error Correction Real - 62	mS/m	Master	----	20.900	30.904	42.100	
Sonde Error Correction Quad - 62		Master	----	-80.900	4.348	93.000	
Sonde Error Correction Real - 63	mS/m	Master	----	-52.100	-24.132	-2.700	
Sonde Error Correction Quad - 63		Master	----	-101.900	243.107	649.900	
Sonde Error Correction Real - 64	mS/m	Master	----	-147.800	23.091	133.400	
Sonde Error Correction Quad - 64		Master	----	-6054.100	-571.801	6480.300	
Sonde Error Correction Real - 65	mS/m	Master	----	-38.200	-3.705	27.000	
Sonde Error Correction Quad - 65		Master	----	-414.600	131.273	740.600	
Sonde Error Correction Real - 66	mS/m	Master	----	-134.200	-15.490	147.000	
Sonde Error Correction Quad - 66		Master	----	-6421.000	590.020	6113.400	
Sonde Error Correction Real - 67	mS/m	Master	----	-50.900	-21.065	-1.500	
Sonde Error Correction Quad - 67		Master	----	-120.200	213.334	631.600	
Sonde Error Correction Real - 68	mS/m	Master	----	-28.200	-1.546	37.000	
Sonde Error Correction Quad - 68		Master	----	-564.900	-5.755	590.300	
Sonde Error Correction Real - 69	mS/m	Master	----	-25.200	-3.653	23.200	
Sonde Error Correction Quad - 69		Master	----	-1131.800	240.973	1562.200	
Sonde Error Correction Real - 70	mS/m	Master	----	-20.500	4.294	27.900	
Sonde Error Correction Quad - 70		Master	----	-1454.700	-52.431	1239.300	
Sonde Error Correction Real - 71	mS/m	Master	----	16.900	23.494	30.100	
Sonde Error Correction Quad - 71		Master	----	-63.200	38.011	82.600	
Sonde Error Correction Real - 72	mS/m	Master	----	-55.800	-33.514	-15.800	
Sonde Error Correction Quad - 72		Master	----	-157.900	41.616	247.900	
Sonde Error Correction Real - 73	mS/m	Master	----	-18.200	3.507	16.800	
Sonde Error Correction Quad - 73		Master	----	-2989.700	-283.664	3198.300	
Sonde Error Correction Real - 74	mS/m	Master	----	-10.300	-0.378	7.900	
Sonde Error Correction Quad - 74		Master	----	-207.500	64.283	369.500	
Sonde Error Correction Real - 75	mS/m	Master	----	-15.900	-1.707	19.100	
Sonde Error Correction Quad - 75		Master	----	-3168.900	295.962	3019.100	
Sonde Error Correction Real - 76	mS/m	Master	----	-54.200	-31.749	-14.200	
Sonde Error Correction Quad - 76		Master	----	-145.800	27.916	239.000	
Sonde Error Correction Real - 77	mS/m	Master	----	-8.400	-0.544	9.800	
Sonde Error Correction Quad - 77		Master	----	-281.700	-3.979	295.300	
Sonde Error Correction Real - 78	mS/m	Master	----	-6.900	2.787	11.100	
Sonde Error Correction Quad - 78		Master	----	-567.100	117.502	775.900	
Sonde Error Correction Real - 79	mS/m	Master	----	-8.000	2.964	10.000	
Sonde Error Correction Quad - 79		Master	----	-725.700	-25.694	617.300	
Sonde Error Correction Real - 80	mS/m	Master	----	11.700	16.043	20.700	
Sonde Error Correction Quad - 80		Master	----	-59.500	12.848	59.500	
Sonde Error Correction Real - 81	mS/m	Master	----	-13.200	-50.120	-16.600	
Sonde Error Correction Quad - 81		Master	----	-9.500	226.240	460.300	
Sonde Error Correction Real - 82	mS/m	Master	----	-61.200	-3.815	62.000	
Sonde Error Correction Quad - 82		Master	----	-2224.900	154.705	2288.500	
Sonde Error Correction Real - 83	mS/m	Master	----	-28.400	-1.235	22.200	
Sonde Error Correction Quad - 83		Master	----	-365.200	-10.637	423.200	

Sonde Error Correction Quad - 84		Master	----	383.200	49.387	120.200				
Sonde Error Correction Real - 84	mS/m	Master	----	-60.600	6.525	62.600				
Sonde Error Correction Quad - 84		Master	----	-2297.100	-214.467	2216.300				
Sonde Error Correction Real - 85	mS/m	Master	----	-82.600	-47.908	-16.000				
Sonde Error Correction Quad - 85		Master	----	-15.500	204.756	444.300				
Sonde Error Correction Real - 86	mS/m	Master	----	-22.400	-1.274	28.200				
Sonde Error Correction Quad - 86		Master	----	-402.000	-23.192	386.400				
Sonde Error Correction Real - 87	mS/m	Master	----	-18.000	3.866	19.000				
Sonde Error Correction Quad - 87		Master	----	-577.000	-183.644	598.000				
Sonde Error Correction Real - 88	mS/m	Master	----	-17.000	2.836	20.000				
Sonde Error Correction Quad - 88		Master	----	-572.200	-70.887	602.800				
Sonde Error Correction Real - 89	mS/m	Master	----	1.100	8.626	17.100				
Sonde Error Correction Quad - 89		Master	----	-91.000	128.242	292.000				
Sonde Error Correction Real - 90	mS/m	Master	----	-76.900	-50.787	-23.100				
Sonde Error Correction Quad - 90		Master	----	-92.000	56.876	166.200				
Sonde Error Correction Real - 91	mS/m	Master	----	-7.800	-0.823	8.200				
Sonde Error Correction Quad - 91		Master	----	-1134.100	80.898	1163.100				
Sonde Error Correction Real - 92	mS/m	Master	----	-7.600	-0.681	3.800				
Sonde Error Correction Quad - 92		Master	----	-188.100	-7.393	217.300				
Sonde Error Correction Real - 93	mS/m	Master	----	-6.900	1.907	9.100				
Sonde Error Correction Quad - 93		Master	----	-1167.200	-108.587	1130.000				
Sonde Error Correction Real - 94	mS/m	Master	----	-76.100	-48.905	-22.300				
Sonde Error Correction Quad - 94		Master	----	-77.500	44.810	159.300				
Sonde Error Correction Real - 95	mS/m	Master	----	-5.700	-0.148	5.700				
Sonde Error Correction Quad - 95		Master	----	-207.400	-14.643	198.000				
Sonde Error Correction Real - 96	mS/m	Master	----	-6.200	2.435	8.000				
Sonde Error Correction Quad - 96		Master	----	-293.700	-92.223	298.500				
Sonde Error Correction Real - 97	mS/m	Master	----	-6.400	2.250	7.800				
Sonde Error Correction Quad - 97		Master	----	-288.600	-36.420	303.600				
Sonde Error Correction Real - 98	mS/m	Master	----	7.900	12.804	17.100				
Sonde Error Correction Quad - 98		Master	----	-98.100	12.965	108.700				
Sonde Error Correction Real - 99	mS/m	Master	----	-115.300	-61.612	-25.100				
Sonde Error Correction Quad - 99		Master	----	-320.800	24.253	514.200				
Sonde Error Correction Real - 100	mS/m	Master	----	-25.100	2.521	26.300				
Sonde Error Correction Quad - 100		Master	----	-873.400	-70.622	971.400				
Sonde Error Correction Real - 101	mS/m	Master	----	-29.900	-6.184	24.900				
Sonde Error Correction Quad - 101		Master	----	-159.400	48.049	167.800				
Sonde Error Correction Real - 102	mS/m	Master	----	-23.600	1.659	27.800				
Sonde Error Correction Quad - 102		Master	----	-1014.100	57.958	830.700				
Sonde Error Correction Real - 103	mS/m	Master	----	-116.400	-61.505	-26.200				
Sonde Error Correction Quad - 103		Master	----	-325.400	1.897	509.600				
Sonde Error Correction Real - 104	mS/m	Master	----	-26.500	-5.938	28.300				
Sonde Error Correction Quad - 104		Master	----	-155.400	44.802	171.800				
Sonde Error Correction Real - 105	mS/m	Master	----	-12.100	4.684	20.500				
Sonde Error Correction Quad - 105		Master	----	-336.400	81.814	317.000				
Sonde Error Correction Real - 106	mS/m	Master	----	-15.100	2.102	17.500				
Sonde Error Correction Quad - 106		Master	----	-331.600	62.083	321.800				
Sonde Error Correction Real - 107	mS/m	Master	----	-21.900	-9.301	2.700				
Sonde Error Correction Quad - 107		Master	----	-290.900	3.389	338.500				
Sonde Error Correction Real - 108	mS/m	Master	----	-113.300	-63.811	-26.700				
Sonde Error Correction Quad - 108		Master	----	-103.600	96.484	355.900				
Sonde Error Correction Real - 109	mS/m	Master	----	-8.000	-0.129	9.000				
Sonde Error Correction Quad - 109		Master	----	-441.900	-33.978	491.300				
Sonde Error Correction Real - 110	mS/m	Master	----	-9.800	-2.295	6.400				
Sonde Error Correction Quad - 110		Master	----	-74.700	17.777	74.300				
Sonde Error Correction Real - 111	mS/m	Master	----	-7.600	1.754	9.400				
Sonde Error Correction Quad - 111		Master	----	-511.900	31.528	421.300				
Sonde Error Correction Real - 112	mS/m	Master	----	-113.300	-64.394	-26.700				
Sonde Error Correction Quad - 112		Master	----	-81.800	87.431	353.600				
Sonde Error Correction Real - 113	mS/m	Master	----	-8.900	-1.587	7.300				
Sonde Error Correction Quad - 113		Master	----	-1.000	17.933	78.000				
Sonde Error Correction Real - 114	mS/m	Master	----	2.300	4.861	7.700				
Sonde Error Correction Quad - 114		Master	----	-167.300	41.694	158.300				
Sonde Error Correction Real - 115	mS/m	Master	----	-4.900	2.669	5.100				
Sonde Error Correction Quad - 115		Master	----	-165.400	31.242	160.200				

Sonde Error Correction Real - 116	mS/m	Master	-----	-9.600	-7.322	-2.600	
Sonde Error Correction Quad - 116		Master	-----	-117.000	37.999	207.400	

AIT Shop Check - Master - Shop Sonde Error Correction Difference

Master (EEPROM): 11:47:19 25-Jan-2011 Expired by 90 days

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Measurement	Unit	Phase	Normal	Low Limit	Actual	High Limit	
Sonde Error Corr Dif Real - 0	mS/m	Master	-----	-1422.350	222.763	1422.350	
Sonde Error Corr Dif Quad - 0		Master	-----	-33895.770	3661.904	33895.770	
Sonde Error Corr Dif Real - 1	mS/m	Master	-----	-1422.350	407.473	1422.350	
Sonde Error Corr Dif Quad - 1		Master	-----	-33895.770	11015.150	33895.770	
Sonde Error Corr Dif Real - 2	mS/m	Master	-----	-58.960	-1383.609	58.960	
Sonde Error Corr Dif Quad - 2		Master	-----	-512.790	2082.122	512.790	
Sonde Error Corr Dif Real - 3	mS/m	Master	-----	-278.130	23.933	278.130	
Sonde Error Corr Dif Quad - 3		Master	-----	-14228.720	2461.547	14228.720	
Sonde Error Corr Dif Real - 4	mS/m	Master	-----	-278.130	150.737	278.130	
Sonde Error Corr Dif Quad - 4		Master	-----	-14228.720	-1023.817	14228.720	
Sonde Error Corr Dif Real - 5	mS/m	Master	-----	-22.330	184.158	22.330	
Sonde Error Corr Dif Quad - 5		Master	-----	-214.990	-198.229	214.990	
Sonde Error Corr Dif Real - 6	mS/m	Master	-----	-93.730	5.226	93.730	
Sonde Error Corr Dif Quad - 6		Master	-----	-5616.320	499.306	5616.320	
Sonde Error Corr Dif Real - 7	mS/m	Master	-----	-93.730	46.860	93.730	
Sonde Error Corr Dif Quad - 7		Master	-----	-5616.320	1463.174	5616.320	
Sonde Error Corr Dif Real - 8	mS/m	Master	-----	-12.700	2.583	12.700	
Sonde Error Corr Dif Quad - 8		Master	-----	-58.980	121.169	58.980	
Sonde Error Corr Dif Real - 9	mS/m	Master	-----	-38.430	-315.359	38.430	
Sonde Error Corr Dif Quad - 9		Master	-----	-525.260	170.289	525.260	
Sonde Error Corr Dif Real - 10	mS/m	Master	-----	-322.050	-245.235	322.050	
Sonde Error Corr Dif Quad - 10		Master	-----	-10299.530	3919.626	10299.530	
Sonde Error Corr Dif Real - 11	mS/m	Master	-----	-183.710	10.023	183.710	
Sonde Error Corr Dif Quad - 11		Master	-----	-7941.350	-613.975	7941.350	
Sonde Error Corr Dif Real - 12	mS/m	Master	-----	-322.050	82.157	322.050	
Sonde Error Corr Dif Quad - 12		Master	-----	-10299.530	-2921.062	10299.530	
Sonde Error Corr Dif Real - 13	mS/m	Master	-----	-38.430	-344.285	38.430	
Sonde Error Corr Dif Quad - 13		Master	-----	-525.260	-257.122	525.260	
Sonde Error Corr Dif Real - 14	mS/m	Master	-----	-183.710	77.771	183.710	
Sonde Error Corr Dif Quad - 14		Master	-----	-7941.350	-171.239	7941.350	
Sonde Error Corr Dif Real - 15	mS/m	Master	-----	-131.160	-15.178	131.160	
Sonde Error Corr Dif Quad - 15		Master	-----	-10322.010	-1831.784	10322.010	
Sonde Error Corr Dif Real - 16	mS/m	Master	-----	-131.160	-6.263	131.160	
Sonde Error Corr Dif Quad - 16		Master	-----	-10322.010	-1526.757	10322.010	
Sonde Error Corr Dif Real - 17	mS/m	Master	-----	-10.520	37.662	10.520	
Sonde Error Corr Dif Quad - 17		Master	-----	-106.620	-108.651	106.620	
Sonde Error Corr Dif Real - 18	mS/m	Master	-----	-38.650	-120.193	38.650	
Sonde Error Corr Dif Quad - 18		Master	-----	-259.430	6.942	259.430	
Sonde Error Corr Dif Real - 19	mS/m	Master	-----	-120.810	-80.107	120.810	
Sonde Error Corr Dif Quad - 19		Master	-----	-5070.680	1925.772	5070.680	
Sonde Error Corr Dif Real - 20	mS/m	Master	-----	-56.450	3.826	56.450	
Sonde Error Corr Dif Quad - 20		Master	-----	-3970.410	-307.837	3970.410	
Sonde Error Corr Dif Real - 21	mS/m	Master	-----	-120.810	29.837	120.810	
Sonde Error Corr Dif Quad - 21		Master	-----	-5070.680	-1444.651	5070.680	
Sonde Error Corr Dif Real - 22	mS/m	Master	-----	-38.650	-147.685	38.650	
Sonde Error Corr Dif Quad - 22		Master	-----	-259.430	-180.423	259.430	
Sonde Error Corr Dif Real - 23	mS/m	Master	-----	-56.450	22.930	56.450	
Sonde Error Corr Dif Quad - 23		Master	-----	-3970.410	-81.200	3970.410	
Sonde Error Corr Dif Real - 24	mS/m	Master	-----	-71.000	-11.190	71.000	
Sonde Error Corr Dif Quad - 24		Master	-----	-5118.910	-915.069	5118.910	
Sonde Error Corr Dif Real - 25	mS/m	Master	-----	-71.000	2.351	71.000	
Sonde Error Corr Dif Quad - 25		Master	-----	-5118.910	-767.849	5118.910	
Sonde Error Corr Dif Real - 26	mS/m	Master	-----	-4.790	8.421	4.790	
Sonde Error Corr Dif Quad - 26		Master	-----	-55.660	-78.929	55.660	
Sonde Error Corr Dif Real - 27	mS/m	Master	-----	-73.800	-22.378	73.800	
Sonde Error Corr Dif Quad - 27		Master	-----	-352.800	175.747	352.850	
Sonde Error Corr Dif Real - 28	mS/m	Master	-----	-159.880	137.853	159.880	
Sonde Error Corr Dif Quad - 28		Master	-----	-6824.670	-3507.436	6824.670	
Sonde Error Corr Dif Real - 29	mS/m	Master	-----	-69.240	6.999	69.240	
Sonde Error Corr Dif Quad - 29		Master	-----	-2661.200	962.876	2661.200	

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Sonde Error Corr Dif Quad - 29		Master	----	-2061.290	902.870	2061.290	
Sonde Error Corr Dif Real - 30	mS/m	Master	----	-159.880	-86.220	159.880	
Sonde Error Corr Dif Quad - 30		Master	----	-6824.670	1957.961	6824.670	
Sonde Error Corr Dif Real - 31	mS/m	Master	----	73.800	-19.590	73.800	
Sonde Error Corr Dif Quad - 31		Master	----	-352.800	96.258	352.850	
Sonde Error Corr Dif Real - 32	mS/m	Master	----	-69.240	36.589	69.240	
Sonde Error Corr Dif Quad - 32		Master	----	-2661.290	-498.376	2661.290	
Sonde Error Corr Dif Real - 33	mS/m	Master	----	-58.940	-18.509	58.940	
Sonde Error Corr Dif Quad - 33		Master	----	-2490.890	918.361	2490.890	
Sonde Error Corr Dif Real - 34	mS/m	Master	----	-58.940	13.372	58.940	
Sonde Error Corr Dif Quad - 34		Master	----	-2490.890	-181.743	2490.890	
Sonde Error Corr Dif Real - 35	mS/m	Master	----	-8.280	119.548	8.280	
Sonde Error Corr Dif Quad - 35		Master	----	-9138.350	11.097	9138.350	
Sonde Error Corr Dif Real - 36	mS/m	Master	----	-75.280	-43.774	75.280	
Sonde Error Corr Dif Quad - 36		Master	----	-175.090	-23.207	175.090	
Sonde Error Corr Dif Real - 37	mS/m	Master	----	-50.660	23.304	50.660	
Sonde Error Corr Dif Quad - 37		Master	----	-3386.630	-1757.764	3386.630	
Sonde Error Corr Dif Real - 38	mS/m	Master	----	-22.870	8.799	22.870	
Sonde Error Corr Dif Quad - 38		Master	----	-1332.130	484.581	1332.130	
Sonde Error Corr Dif Real - 39	mS/m	Master	----	-50.660	-14.209	50.660	
Sonde Error Corr Dif Quad - 39		Master	----	-3386.630	985.353	3386.630	
Sonde Error Corr Dif Real - 40	mS/m	Master	----	-75.280	-40.418	75.280	
Sonde Error Corr Dif Quad - 40		Master	----	-175.090	-72.115	175.090	
Sonde Error Corr Dif Real - 41	mS/m	Master	----	-22.870	12.648	22.870	
Sonde Error Corr Dif Quad - 41		Master	----	-1332.130	-246.266	1332.130	
Sonde Error Corr Dif Real - 42	mS/m	Master	----	-46.710	6.914	46.710	
Sonde Error Corr Dif Quad - 42		Master	----	-1250.020	457.289	1250.020	
Sonde Error Corr Dif Real - 43	mS/m	Master	----	-46.710	6.670	46.710	
Sonde Error Corr Dif Quad - 43		Master	----	-1250.020	-88.723	1250.020	
Sonde Error Corr Dif Real - 44	mS/m	Master	----	-3.760	49.347	3.760	
Sonde Error Corr Dif Quad - 44		Master	----	-25.880	55.785	25.880	
Sonde Error Corr Dif Real - 45	mS/m	Master	----	-17.300	-19.647	17.300	
Sonde Error Corr Dif Quad - 45		Master	----	-176.360	-17.413	176.360	
Sonde Error Corr Dif Real - 46	mS/m	Master	----	-124.190	-32.300	124.190	
Sonde Error Corr Dif Quad - 46		Master	----	-4733.690	964.254	4733.690	
Sonde Error Corr Dif Real - 47	mS/m	Master	----	-40.710	0.472	40.710	
Sonde Error Corr Dif Quad - 47		Master	----	-1317.910	-4.680	1317.910	
Sonde Error Corr Dif Real - 48	mS/m	Master	----	-124.190	33.789	124.190	
Sonde Error Corr Dif Quad - 48		Master	----	-4733.690	-1190.814	4733.690	
Sonde Error Corr Dif Real - 49	mS/m	Master	----	-17.300	-20.521	17.300	
Sonde Error Corr Dif Quad - 49		Master	----	-176.360	134.336	176.360	
Sonde Error Corr Dif Real - 50	mS/m	Master	----	-40.710	16.334	40.710	
Sonde Error Corr Dif Quad - 50		Master	----	-1317.910	-351.696	1317.910	
Sonde Error Corr Dif Real - 51	mS/m	Master	----	-21.650	-2.278	21.650	
Sonde Error Corr Dif Quad - 51		Master	----	-1487.450	-249.438	1487.450	
Sonde Error Corr Dif Real - 52	mS/m	Master	----	-21.650	14.234	21.650	
Sonde Error Corr Dif Quad - 52		Master	----	-1487.450	-595.744	1487.450	
Sonde Error Corr Dif Real - 53	mS/m	Master	----	-6.870	54.415	6.870	
Sonde Error Corr Dif Quad - 53		Master	----	-22.760	-1.633	22.760	
Sonde Error Corr Dif Real - 54	mS/m	Master	----	-14.160	-61.840	14.160	
Sonde Error Corr Dif Quad - 54		Master	----	-88.850	-51.466	88.850	
Sonde Error Corr Dif Real - 55	mS/m	Master	----	-19.500	-7.430	19.500	
Sonde Error Corr Dif Quad - 55		Master	----	-2367.930	481.226	2367.930	
Sonde Error Corr Dif Real - 56	mS/m	Master	----	-17.070	1.109	17.070	
Sonde Error Corr Dif Quad - 56		Master	----	-661.990	-8.460	661.990	
Sonde Error Corr Dif Real - 57	mS/m	Master	----	-19.500	6.162	19.500	
Sonde Error Corr Dif Quad - 57		Master	----	-2367.930	-591.383	2367.930	
Sonde Error Corr Dif Real - 58	mS/m	Master	----	-14.160	-60.009	14.160	
Sonde Error Corr Dif Quad - 58		Master	----	-88.850	23.397	88.850	
Sonde Error Corr Dif Real - 59	mS/m	Master	----	-17.070	3.651	17.070	
Sonde Error Corr Dif Quad - 59		Master	----	-661.990	-176.331	661.990	
Sonde Error Corr Dif Real - 60	mS/m	Master	----	11.090	4.710	11.090	
Sonde Error Corr Dif Quad - 60		Master	----	-742.280	-130.481	742.280	
Sonde Error Corr Dif Real - 61	mS/m	Master	----	-11.090	4.375	11.090	
Sonde Error Corr Dif Quad - 61		Master	----	-742.280	-298.028	742.280	

Sonde Error Corr Dif Real - 62	mS/m	Master	----	-3.800	30.365	3.800	
Sonde Error Corr Dif Quad - 62		Master	----	-13.370	6.655	13.370	
Sonde Error Corr Dif Real - 63	mS/m	Master	----	-12.070	-23.217	12.070	
Sonde Error Corr Dif Quad - 63		Master	----	-90.680	236.160	90.680	
Sonde Error Corr Dif Real - 64	mS/m	Master	----	-3.670	13.029	43.670	
Sonde Error Corr Dif Quad - 64		Master	----	-1646.130	-314.628	1646.130	
Sonde Error Corr Dif Real - 65	mS/m	Master	----	-24.500	-1.777	24.500	
Sonde Error Corr Dif Quad - 65		Master	----	-477.700	155.791	477.700	
Sonde Error Corr Dif Real - 66	mS/m	Master	----	-43.670	-8.215	43.670	
Sonde Error Corr Dif Quad - 66		Master	----	-1646.130	321.872	1646.130	
Sonde Error Corr Dif Real - 67	mS/m	Master	----	-12.070	-20.524	12.070	
Sonde Error Corr Dif Quad - 67		Master	----	-90.680	205.998	90.680	
Sonde Error Corr Dif Real - 68	mS/m	Master	----	-24.500	2.629	24.500	
Sonde Error Corr Dif Quad - 68		Master	----	-477.700	24.614	477.700	
Sonde Error Corr Dif Real - 69	mS/m	Master	----	-12.430	-2.522	12.430	
Sonde Error Corr Dif Quad - 69		Master	----	-622.540	180.283	622.540	
Sonde Error Corr Dif Real - 70	mS/m	Master	----	-12.430	3.142	12.430	
Sonde Error Corr Dif Quad - 70		Master	----	-622.540	14.970	622.540	
Sonde Error Corr Dif Real - 71	mS/m	Master	----	-3.560	23.002	3.560	
Sonde Error Corr Dif Quad - 71		Master	----	-10.290	40.259	10.290	
Sonde Error Corr Dif Real - 72	mS/m	Master	----	-8.900	-33.446	8.900	
Sonde Error Corr Dif Quad - 72		Master	----	-50.090	37.815	50.090	
Sonde Error Corr Dif Real - 73	mS/m	Master	----	-8.150	1.939	8.150	
Sonde Error Corr Dif Quad - 73		Master	----	-815.430	-155.768	815.430	
Sonde Error Corr Dif Real - 74	mS/m	Master	----	-12.270	1.026	12.270	
Sonde Error Corr Dif Quad - 74		Master	----	-242.090	76.376	242.090	
Sonde Error Corr Dif Real - 75	mS/m	Master	----	-8.150	-1.108	8.150	
Sonde Error Corr Dif Quad - 75		Master	----	-815.430	163.004	815.430	
Sonde Error Corr Dif Real - 76	mS/m	Master	----	-8.900	-31.732	8.900	
Sonde Error Corr Dif Quad - 76		Master	----	-50.090	24.543	50.090	
Sonde Error Corr Dif Real - 77	mS/m	Master	----	-12.270	1.184	12.270	
Sonde Error Corr Dif Quad - 77		Master	----	-242.090	11.356	242.090	
Sonde Error Corr Dif Real - 78	mS/m	Master	----	-6.910	2.930	6.910	
Sonde Error Corr Dif Quad - 78		Master	----	-309.500	87.124	309.500	
Sonde Error Corr Dif Real - 79	mS/m	Master	----	-6.910	3.061	6.910	
Sonde Error Corr Dif Quad - 79		Master	----	-309.500	6.902	309.500	
Sonde Error Corr Dif Real - 80	mS/m	Master	----	-2.270	15.646	2.270	
Sonde Error Corr Dif Quad - 80		Master	----	-5.950	14.130	5.950	
Sonde Error Corr Dif Real - 81	mS/m	Master	----	-14.820	-49.763	14.820	
Sonde Error Corr Dif Quad - 81		Master	----	-41.940	229.451	41.940	
Sonde Error Corr Dif Real - 82	mS/m	Master	----	-26.750	-1.485	26.750	
Sonde Error Corr Dif Quad - 82		Master	----	-1113.920	63.016	1113.920	
Sonde Error Corr Dif Real - 83	mS/m	Master	----	-22.910	-0.240	22.910	
Sonde Error Corr Dif Quad - 83		Master	----	-425.640	-44.671	425.640	
Sonde Error Corr Dif Real - 84	mS/m	Master	----	-26.750	4.056	26.750	
Sonde Error Corr Dif Quad - 84		Master	----	-1113.920	-120.759	1113.920	
Sonde Error Corr Dif Real - 85	mS/m	Master	----	-14.820	-47.336	14.820	
Sonde Error Corr Dif Quad - 85		Master	----	-41.940	205.636	41.940	
Sonde Error Corr Dif Real - 86	mS/m	Master	----	-22.910	-0.517	22.910	
Sonde Error Corr Dif Quad - 86		Master	----	-425.640	-40.151	425.640	
Sonde Error Corr Dif Real - 87	mS/m	Master	----	-17.620	4.296	17.620	
Sonde Error Corr Dif Quad - 87		Master	----	-619.330	-244.688	619.330	
Sonde Error Corr Dif Real - 88	mS/m	Master	----	-17.620	2.740	17.620	
Sonde Error Corr Dif Quad - 88		Master	----	-619.330	-34.802	619.330	
Sonde Error Corr Dif Real - 89	mS/m	Master	----	-3.910	8.285	3.910	
Sonde Error Corr Dif Quad - 89		Master	----	-9.470	128.576	9.470	
Sonde Error Corr Dif Real - 90	mS/m	Master	----	-11.240	-51.027	11.240	
Sonde Error Corr Dif Quad - 90		Master	----	-18.450	59.120	18.450	
Sonde Error Corr Dif Real - 91	mS/m	Master	----	-6.130	-0.480	6.130	
Sonde Error Corr Dif Quad - 91		Master	----	-563.230	34.625	563.230	
Sonde Error Corr Dif Real - 92	mS/m	Master	----	-3.750	0.372	13.750	
Sonde Error Corr Dif Quad - 92		Master	----	-215.560	-25.586	215.560	
Sonde Error Corr Dif Real - 93	mS/m	Master	----	-6.130	1.207	6.130	
Sonde Error Corr Dif Quad - 93		Master	----	-563.230	-60.715	563.230	
Sonde Error Corr Dif Real - 94	mS/m	Master	----	-11.240	-48.998	11.240	

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Sonde Error Corr Dif Quad - 94		Master	----	-18.450	45.902	18.450	
Sonde Error Corr Dif Real - 95	mS/m	Master	----	-13.750	0.459	13.750	
Sonde Error Corr Dif Quad - 95		Master	----	-215.560	-24.545	215.560	
Sonde Error Corr Dif Real - 96	mS/m	Master	----	-9.770	2.135	9.770	
Sonde Error Corr Dif Quad - 96		Master	----	-316.930	-123.489	316.930	
Sonde Error Corr Dif Real - 97	mS/m	Master	----	-9.770	2.463	9.770	
Sonde Error Corr Dif Quad - 97		Master	----	-316.930	-19.370	316.930	
Sonde Error Corr Dif Real - 98	mS/m	Master	----	-2.110	12.359	2.110	
Sonde Error Corr Dif Quad - 98		Master	----	-7.370	13.518	7.370	
Sonde Error Corr Dif Real - 99	mS/m	Master	----	-15.930	-61.710	15.930	
Sonde Error Corr Dif Quad - 99		Master	----	-35.540	26.053	35.540	
Sonde Error Corr Dif Real - 100	mS/m	Master	----	-22.000	2.768	22.000	
Sonde Error Corr Dif Quad - 100		Master	----	-562.650	-69.622	562.650	
Sonde Error Corr Dif Real - 101	mS/m	Master	----	-29.210	-3.803	29.210	
Sonde Error Corr Dif Quad - 101		Master	----	-209.850	51.263	209.850	
Sonde Error Corr Dif Real - 102	mS/m	Master	----	-22.000	0.756	22.000	
Sonde Error Corr Dif Quad - 102		Master	----	-562.650	58.896	562.650	
Sonde Error Corr Dif Real - 103	mS/m	Master	----	-15.930	-61.606	15.930	
Sonde Error Corr Dif Quad - 103		Master	----	-35.540	2.273	35.540	
Sonde Error Corr Dif Real - 104	mS/m	Master	----	-29.210	-3.898	29.210	
Sonde Error Corr Dif Quad - 104		Master	----	-209.850	43.159	209.850	
Sonde Error Corr Dif Real - 105	mS/m	Master	----	-23.810	3.907	23.810	
Sonde Error Corr Dif Quad - 105		Master	----	-232.790	97.008	232.790	
Sonde Error Corr Dif Real - 106	mS/m	Master	----	-23.810	1.732	23.810	
Sonde Error Corr Dif Quad - 106		Master	----	-232.790	74.321	232.790	
Sonde Error Corr Dif Real - 107	mS/m	Master	----	-10.690	-9.029	10.690	
Sonde Error Corr Dif Quad - 107		Master	----	-19.320	2.487	19.320	
Sonde Error Corr Dif Real - 108	mS/m	Master	----	-9.300	-64.332	9.300	
Sonde Error Corr Dif Quad - 108		Master	----	-21.950	96.867	21.950	
Sonde Error Corr Dif Real - 109	mS/m	Master	----	-8.990	-0.108	8.990	
Sonde Error Corr Dif Quad - 109		Master	----	-293.930	-32.932	293.930	
Sonde Error Corr Dif Real - 110	mS/m	Master	----	-16.850	-0.369	16.850	
Sonde Error Corr Dif Quad - 110		Master	----	-94.980	19.568	94.980	
Sonde Error Corr Dif Real - 111	mS/m	Master	----	-8.990	1.084	8.990	
Sonde Error Corr Dif Quad - 111		Master	----	-293.930	31.612	293.930	
Sonde Error Corr Dif Real - 112	mS/m	Master	----	-9.300	-64.701	9.300	
Sonde Error Corr Dif Quad - 112		Master	----	-21.950	88.098	21.950	
Sonde Error Corr Dif Real - 113	mS/m	Master	----	-16.850	-0.693	16.850	
Sonde Error Corr Dif Quad - 113		Master	----	-94.980	17.327	94.980	
Sonde Error Corr Dif Real - 114	mS/m	Master	----	-14.210	4.531	14.210	
Sonde Error Corr Dif Quad - 114		Master	----	-112.060	48.645	112.060	
Sonde Error Corr Dif Real - 115	mS/m	Master	----	-14.210	2.891	14.210	
Sonde Error Corr Dif Quad - 115		Master	----	-112.060	35.673	112.060	
Sonde Error Corr Dif Real - 116	mS/m	Master	----	-1.760	-7.255	1.760	
Sonde Error Corr Dif Quad - 116		Master	----	-10.880	37.438	10.880	

AIT Mud Calibration - Mud Calibration Gain

Master (EEPROM): 11:47:19 25-Jan-2014 Expired by 100 days

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Coarse Gain		Master	1.000	0.800	0.850	1.200	
Fine Gain		Master	1.000	0.800	0.852	1.200	

AIT Electronics Check - Thru Calibration Check

Master (EEPROM): 03:09:36 14-Dec-2012 Expired by 507 days
 Before (Measured): 22:45:55 03-Aug-2014 After (Measured): 04:05:32 04-Aug-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Thru Cal Mag - 0	V	Master	----	0.874	1.504	2.038	
		Before	----	0.874	1.524	2.038	
		After	----	0.874	1.507	2.038	
		Before-Master	----	----	0.020	----	
		After-Before	----	----	-0.017	----	
Thru Cal Phase - 0	deg	Master	----	-180.000	12.300	180.000	
		Before	----	-180.000	-157.982	180.000	
		After	----	-180.000	-159.555	180.000	
		Before-Master	----	----	-170.282	----	
		After-Before	----	----	-1.573	----	

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Thru Cal Mag - 1	V	Master	----	0.874	1.525	2.038	
		Before	----	0.874	1.546	2.038	
		After	----	0.874	1.527	2.038	
		Before-Master	----		-0.021	----	
		After-Before	----		-0.019	----	
Thru Cal Phase - 1	deg	Master	----	-180.000	11.991	180.000	
		Before	----	-180.000	-155.307	180.000	
		After	----	-180.000	-156.909	180.000	
		Before-Master	----	----	-167.298	----	
		After-Before	----	----	-1.602	----	
Thru Cal Mag - 2	V	Master	----	0.874	1.443	2.038	
		Before	----	0.874	1.480	2.038	
		After	----	0.874	1.469	2.038	
		Before-Master	----	----	0.037	----	
		After-Before	----	----	-0.011	----	
Thru Cal Phase - 2	deg	Master	----	-180.000	-0.074	180.000	
		Before	----	-180.000	-164.794	180.000	
		After	----	-180.000	-165.965	180.000	
		Before-Master	----	----	-164.720	----	
		After-Before	----	----	-1.171	----	
Thru Cal Mag - 3	V	Master	----	2.011	3.456	4.693	
		Before	----	2.011	3.499	4.693	
		After	----	2.011	3.459	4.693	
		Before-Master	----	----	0.043	----	
		After-Before	----	----	-0.040	----	
Thru Cal Phase - 3	deg	Master	----	-180.000	5.909	180.000	
		Before	----	-180.000	-162.600	180.000	
		After	----	-180.000	-164.129	180.000	
		Before-Master	----	----	-168.509	----	
		After-Before	----	----	-1.529	----	
Thru Cal Mag - 4	V	Master	----	2.011	3.504	4.693	
		Before	----	2.011	3.550	4.693	
		After	----	2.011	3.505	4.693	
		Before-Master	----	----	0.046	----	
		After-Before	----	----	-0.045	----	
Thru Cal Phase - 4	deg	Master	----	-180.000	5.606	180.000	
		Before	----	-180.000	-159.926	180.000	
		After	----	-180.000	-161.487	180.000	
		Before-Master	----	----	-165.532	----	
		After-Before	----	----	-1.561	----	
Thru Cal Mag - 5	V	Master	----	2.011	3.315	4.693	
		Before	----	2.011	3.399	4.693	
		After	----	2.011	3.373	4.693	
		Before-Master	----	----	0.084	----	
		After-Before	----	----	-0.026	----	
Thru Cal Phase - 5	deg	Master	----	-180.000	-6.456	180.000	
		Before	----	-180.000	-169.420	180.000	
		After	----	-180.000	-170.548	180.000	
		Before-Master	----	----	-162.964	----	
		After-Before	----	----	-1.128	----	
Thru Cal Mag - 6	V	Master	----	1.608	2.770	3.752	
		Before	----	1.608	2.804	3.752	
		After	----	1.608	2.771	3.752	
		Before-Master	----	----	0.034	----	
		After-Before	----	----	-0.033	----	
Thru Cal Phase - 6	deg	Master	----	-180.000	6.507	180.000	
		Before	----	-180.000	-163.256	180.000	
		After	----	-180.000	-164.700	180.000	
		Before-Master	----	----	-169.763	----	
		After-Before	----	----	-1.444	----	
Thru Cal Mag - 7	V	Master	----	1.608	2.809	3.752	
		Before	----	1.608	2.846	3.752	
		After	----	1.608	2.810	3.752	
		Before-Master	----	----	0.037	----	
		After-Before	----	----	-0.036	----	
Thru Cal Phase - 7	deg	Master	----	-180.000	6.190	180.000	
		Before	----	-180.000	-160.587	180.000	
		After	----	-180.000	-162.061	180.000	

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		Before-Master	----	----	-166.777	----	
		After-Before	----	----	-1.474	----	
Thru Cal Mag - 8	V	Master	----	1.608	2.659	3.752	
		Before	----	1.608	2.725	3.752	
		After	----	1.608	2.704	3.752	
		Before-Master	----	----	0.066	----	
		After-Before	----	----	-0.021	----	
Thru Cal Phase - 8	deg	Master	----	-180.000	-5.901	180.000	
		Before	----	-180.000	-170.100	180.000	
		After	----	-180.000	-171.144	180.000	
		Before-Master	----	----	-164.199	----	
		After-Before	----	----	-1.044	----	
Thru Cal Mag - 9	V	Master	----	1.174	1.894	2.739	
		Before	----	1.174	1.881	2.739	
		After	----	1.174	1.844	2.739	
		Before-Master	----	----	-0.013	----	
		After-Before	----	----	-0.037	----	
Thru Cal Phase - 9	deg	Master	----	-180.000	1.931	180.000	
		Before	----	-180.000	-67.148	180.000	
		After	----	-180.000	-67.603	180.000	
		Before-Master	----	----	-69.079	----	
		After-Before	----	----	-0.455	----	
Thru Cal Mag - 10	V	Master	----	1.174	1.903	2.739	
		Before	----	1.174	1.890	2.739	
		After	----	1.174	1.850	2.739	
		Before-Master	----	----	-0.013	----	
		After-Before	----	----	-0.040	----	
Thru Cal Phase - 10	deg	Master	----	-180.000	4.301	180.000	
		Before	----	-180.000	-62.423	180.000	
		After	----	-180.000	-63.085	180.000	
		Before-Master	----	----	-66.724	----	
		After-Before	----	----	-0.662	----	
Thru Cal Mag - 11	V	Master	----	1.174	1.891	2.739	
		Before	----	1.174	1.892	2.739	
		After	----	1.174	1.859	2.739	
		Before-Master	----	----	0.001	----	
		After-Before	----	----	-0.033	----	
Thru Cal Phase - 11	deg	Master	----	-180.000	-1.440	180.000	
		Before	----	-180.000	-70.530	180.000	
		After	----	-180.000	-70.771	180.000	
		Before-Master	----	----	-69.090	----	
		After-Before	----	----	-0.241	----	
Thru Cal Mag - 12	V	Master	----	2.122	3.612	4.951	
		Before	----	2.122	3.658	4.951	
		After	----	2.122	3.615	4.951	
		Before-Master	----	----	0.046	----	
		After-Before	----	----	-0.043	----	
Thru Cal Phase - 12	deg	Master	----	-180.000	12.280	180.000	
		Before	----	-180.000	-158.317	180.000	
		After	----	-180.000	-159.912	180.000	
		Before-Master	----	----	-170.597	----	
		After-Before	----	----	-1.595	----	
Thru Cal Mag - 13	V	Master	----	2.122	3.663	4.951	
		Before	----	2.122	3.711	4.951	
		After	----	2.122	3.664	4.951	
		Before-Master	----	----	0.048	----	
		After-Before	----	----	-0.047	----	
Thru Cal Phase - 13	deg	Master	----	-180.000	11.995	180.000	
		Before	----	-180.000	-155.689	180.000	
		After	----	-180.000	-157.289	180.000	
		Before-Master	----	----	-167.684	----	
		After-Before	----	----	-1.600	----	
Thru Cal Mag - 14	V	Master	----	2.122	3.467	4.951	
		Before	----	2.122	3.555	4.951	
		After	----	2.122	3.527	4.951	
		Before-Master	----	----	0.088	----	
		After-Before	----	----	-0.028	----	
Thru Cal Phase - 14	deg	Master	----	-180.000	-0.038	180.000	

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		Before	----	-180.000	-165.170	180.000	
		After	----	-180.000	-166.359	180.000	
		Before-Master	----	----	-165.132	----	
		After-Before	----	----	-1.189	----	
Thru Cal Mag - 15		Master	----	1.860	3.042	4.340	
		Before	----	1.860	3.020	4.340	
		After	----	1.860	2.961	4.340	
		Before-Master	----	----	-0.022	----	
		After-Before	----	----	-0.059	----	
Thru Cal Phase - 15	deg	Master	----	-180.000	1.940	180.000	
		Before	----	-180.000	-67.529	180.000	
		After	----	-180.000	-67.969	180.000	
		Before-Master	----	----	-69.469	----	
		After-Before	----	----	-0.440	----	
Thru Cal Mag - 16	V	Master	----	1.860	3.056	4.340	
		Before	----	1.860	3.035	4.340	
		After	----	1.860	2.971	4.340	
		Before-Master	----	----	-0.021	----	
		After-Before	----	----	-0.064	----	
Thru Cal Phase - 16	deg	Master	----	-180.000	4.321	180.000	
		Before	----	-180.000	-62.789	180.000	
		After	----	-180.000	-63.447	180.000	
		Before-Master	----	----	-67.110	----	
		After-Before	----	----	-0.658	----	
Thru Cal Mag - 17	V	Master	----	1.860	3.038	4.340	
		Before	----	1.860	3.038	4.340	
		After	----	1.860	2.986	4.340	
		Before-Master	----	----	0.000	----	
		After-Before	----	----	-0.052	----	
Thru Cal Phase - 17	deg	Master	----	-180.000	-1.427	180.000	
		Before	----	-180.000	-70.875	180.000	
		After	----	-180.000	-71.122	180.000	
		Before-Master	----	----	-69.448	----	
		After-Before	----	----	-0.247	----	
Thru Cal Mag - 18	V	Master	----	0.562	0.957	1.310	
		Before	----	0.562	0.970	1.310	
		After	----	0.562	0.959	1.310	
		Before-Master	----	----	0.013	----	
		After-Before	----	----	-0.011	----	
Thru Cal Phase - 18	deg	Master	----	-180.000	12.184	180.000	
		Before	----	-180.000	-157.585	180.000	
		After	----	-180.000	-159.186	180.000	
		Before-Master	----	----	-169.769	----	
		After-Before	----	----	-1.601	----	
Thru Cal Mag - 19	V	Master	----	0.562	0.969	1.310	
		Before	----	0.562	0.982	1.310	
		After	----	0.562	0.970	1.310	
		Before-Master	----	----	0.013	----	
		After-Before	----	----	-0.012	----	
Thru Cal Phase - 19	deg	Master	----	-180.000	11.951	180.000	
		Before	----	-180.000	-154.923	180.000	
		After	----	-180.000	-156.533	180.000	
		Before-Master	----	----	-166.874	----	
		After-Before	----	----	-1.610	----	
Thru Cal Mag - 20	V	Master	----	0.562	0.915	1.310	
		Before	----	0.562	0.939	1.310	
		After	----	0.562	0.931	1.310	
		Before-Master	----	----	0.024	----	
		After-Before	----	----	-0.008	----	
Thru Cal Phase - 20	deg	Master	----	-180.000	-0.044	180.000	
		Before	----	-180.000	-164.393	180.000	
		After	----	-180.000	-165.578	180.000	
		Before-Master	----	----	-164.349	----	
		After-Before	----	----	-1.185	----	
Thru Cal Mag - 21	V	Master	----	2.449	4.039	5.714	
		Before	----	2.449	4.007	5.714	
		After	----	2.449	3.929	5.714	
		Before-Master	----	----	-0.032	----	

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		After-Before	----	----	-0.078	----	
Thru Cal Phase - 21	deg	Master	----	-180.000	-1.380	180.000	
		Before	----	-180.000	-69.701	180.000	
		After	----	-180.000	-70.149	180.000	
		Before-Master	----	----	-68.321	----	
		After-Before	----	----	-0.448	----	
Thru Cal Mag - 22	V	Master	----	2.449	4.059	5.714	
		Before	----	2.449	4.027	5.714	
		After	----	2.449	3.943	5.714	
		Before-Master	----	----	-0.032	----	
		After-Before	----	----	-0.084	----	
Thru Cal Phase - 22	deg	Master	----	-180.000	0.995	180.000	
		Before	----	-180.000	-64.979	180.000	
		After	----	-180.000	-65.630	180.000	
		Before-Master	----	----	-65.974	----	
		After-Before	----	----	-0.651	----	
Thru Cal Mag - 23	V	Master	----	2.449	4.034	5.714	
		Before	----	2.449	4.031	5.714	
		After	----	2.449	3.963	5.714	
		Before-Master	----	----	-0.003	----	
		After-Before	----	----	-0.068	----	
Thru Cal Phase - 23	deg	Master	----	-180.000	-4.749	180.000	
		Before	----	-180.000	-73.080	180.000	
		After	----	-180.000	-73.316	180.000	
		Before-Master	----	----	-68.331	----	
		After-Before	----	----	-0.236	----	
Thru Cal Mag - 24	V	Master	----	0.817	1.390	1.907	
		Before	----	0.817	1.407	1.907	
		After	----	0.817	1.390	1.907	
		Before-Master	----	----	0.017	----	
		After-Before	----	----	-0.017	----	
Thru Cal Phase - 24	deg	Master	----	-180.000	5.848	180.000	
		Before	----	-180.000	-163.097	180.000	
		After	----	-180.000	-164.645	180.000	
		Before-Master	----	----	-168.945	----	
		After-Before	----	----	-1.548	----	
Thru Cal Mag - 25	V	Master	----	0.817	1.407	1.907	
		Before	----	0.817	1.425	1.907	
		After	----	0.817	1.406	1.907	
		Before-Master	----	----	0.018	----	
		After-Before	----	----	-0.019	----	
Thru Cal Phase - 25	deg	Master	----	-180.000	5.603	180.000	
		Before	----	-180.000	-160.447	180.000	
		After	----	-180.000	-162.001	180.000	
		Before-Master	----	----	-166.050	----	
		After-Before	----	----	-1.554	----	
Thru Cal Mag - 26	V	Master	----	0.817	1.329	1.907	
		Before	----	0.817	1.362	1.907	
		After	----	0.817	1.351	1.907	
		Before-Master	----	----	0.033	----	
		After-Before	----	----	-0.011	----	
Thru Cal Phase - 26	deg	Master	----	-180.000	-6.404	180.000	
		Before	----	-180.000	-169.913	180.000	
		After	----	-180.000	-171.061	180.000	
		Before-Master	----	----	-163.509	----	
		After-Before	----	----	-1.148	----	
Thru Cal Mag - 27	V	Master	----	2.449	4.039	5.714	
		Before	----	2.449	4.007	5.714	
		After	----	2.449	3.929	5.714	
		Before-Master	----	----	-0.032	----	
		After-Before	----	----	-0.078	----	
Thru Cal Phase - 27	deg	Master	----	-180.000	-1.390	180.000	
		Before	----	-180.000	-69.720	180.000	
		After	----	-180.000	-70.158	180.000	
		Before-Master	----	----	-68.330	----	
		After-Before	----	----	-0.438	----	
Thru Cal Mag - 28	V	Master	----	2.449	4.059	5.714	
		Before	----	2.449	4.027	5.714	

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		After		2.449	3.943	5.714	
		Before-Master		----	-0.032	----	
		After-Before		----	-0.084	----	
Thru Cal Phase - 28	deg	Master		-180.000	0.989	180.000	
		Before		-180.000	-64.984	180.000	
		After		-180.000	-65.632	180.000	
		Before-Master		----	-65.973	----	
		After-Before		----	-0.648	----	
Thru Cal Mag - 29	V	Master		2.449	4.034	5.714	
		Before		2.449	4.031	5.714	
		After		2.449	3.963	5.714	
		Before-Master		----	-0.003	----	
		After-Before		----	-0.068	----	
Thru Cal Phase - 29	deg	Master		-180.000	-4.763	180.000	
		Before		-180.000	-73.066	180.000	
		After		-180.000	-73.312	180.000	
		Before-Master		----	-68.303	----	
		After-Before		----	-0.246	----	
Thru Cal Mag - 30	V	Master		0.817	1.390	1.907	
		Before		0.817	1.407	1.907	
		After		0.817	1.390	1.907	
		Before-Master		----	0.017	----	
		After-Before		----	-0.017	----	
Thru Cal Phase - 30	deg	Master		-180.000	5.837	180.000	
		Before		-180.000	-163.110	180.000	
		After		-180.000	-164.657	180.000	
		Before-Master		----	-168.947	----	
		After-Before		----	-1.547	----	
Thru Cal Mag - 31	V	Master		0.817	1.407	1.907	
		Before		0.817	1.425	1.907	
		After		0.817	1.406	1.907	
		Before-Master		----	0.018	----	
		After-Before		----	-0.019	----	
Thru Cal Phase - 31	deg	Master		-180.000	5.608	180.000	
		Before		-180.000	-160.452	180.000	
		After		-180.000	-162.010	180.000	
		Before-Master		----	-166.060	----	
		After-Before		----	-1.558	----	
Thru Cal Mag - 32	V	Master		0.817	1.329	1.907	
		Before		0.817	1.362	1.907	
		After		0.817	1.351	1.907	
		Before-Master		----	0.033	----	
		After-Before		----	-0.011	----	
Thru Cal Phase - 32	deg	Master		-180.000	-6.408	180.000	
		Before		-180.000	-169.933	180.000	
		After		-180.000	-171.071	180.000	
		Before-Master		----	-163.525	----	
		After-Before		----	-1.138	----	
Thru Cal Mag - 33	V	Master		0.732	1.165	1.708	
		Before		0.732	1.155	1.708	
		After		0.732	1.132	1.708	
		Before-Master		----	-0.010	----	
		After-Before		----	-0.023	----	
Thru Cal Phase - 33	deg	Master		-180.000	-1.136	180.000	
		Before		-180.000	-70.822	180.000	
		After		-180.000	-71.247	180.000	
		Before-Master		----	-69.686	----	
		After-Before		----	-0.425	----	
Thru Cal Mag - 34	V	Master		0.732	1.167	1.708	
		Before		0.732	1.156	1.708	
		After		0.732	1.132	1.708	
		Before-Master		----	-0.011	----	
		After-Before		----	-0.024	----	
Thru Cal Phase - 34	deg	Master		-180.000	1.266	180.000	
		Before		-180.000	-66.088	180.000	
		After		-180.000	-66.715	180.000	
		Before-Master		----	-67.354	----	
		After-Before		----	-0.627	----	

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Thru Cal Mag - 35	V	Master	----	0.732	1.755	1.708	
		Before	----	0.732	1.153	1.708	
		After	----	0.732	1.133	1.708	
		Before-Master	----	----	-0.002	----	
		After-Before	----	----	-0.020	----	
Thru Cal Phase - 35	deg	Master	----	-180.000	-4.465	180.000	
		Before	----	-180.000	-74.167	180.000	
		After	----	-180.000	-74.383	180.000	
		Before-Master	----	----	-69.702	----	
		After-Before	----	----	-0.216	----	
Thru Cal Mag - 36	V	Master	----	0.981	1.644	2.289	
		Before	----	0.981	1.664	2.289	
		After	----	0.981	1.644	2.289	
		Before-Master	----	----	0.020	----	
		After-Before	----	----	-0.020	----	
Thru Cal Phase - 36	deg	Master	----	-180.000	6.438	180.000	
		Before	----	-180.000	-164.168	180.000	
		After	----	-180.000	-165.629	180.000	
		Before-Master	----	----	-170.606	----	
		After-Before	----	----	-1.461	----	
Thru Cal Mag - 37	V	Master	----	0.981	1.665	2.289	
		Before	----	0.981	1.685	2.289	
		After	----	0.981	1.663	2.289	
		Before-Master	----	----	0.020	----	
		After-Before	----	----	-0.022	----	
Thru Cal Phase - 37	deg	Master	----	-180.000	6.193	180.000	
		Before	----	-180.000	-161.518	180.000	
		After	----	-180.000	-162.986	180.000	
		Before-Master	----	----	-167.711	----	
		After-Before	----	----	-1.468	----	
Thru Cal Mag - 38	V	Master	----	0.981	1.573	2.289	
		Before	----	0.981	1.611	2.289	
		After	----	0.981	1.598	2.289	
		Before-Master	----	----	0.038	----	
		After-Before	----	----	-0.013	----	
Thru Cal Phase - 38	deg	Master	----	-180.000	-5.811	180.000	
		Before	----	-180.000	-170.980	180.000	
		After	----	-180.000	-172.041	180.000	
		Before-Master	----	----	-165.169	----	
		After-Before	----	----	-1.061	----	
Thru Cal Mag - 39	V	Master	----	0.878	1.400	2.049	
		Before	----	0.878	1.388	2.049	
		After	----	0.878	1.361	2.049	
		Before-Master	----	----	-0.012	----	
		After-Before	----	----	-0.027	----	
Thru Cal Phase - 39	deg	Master	----	-180.000	-1.155	180.000	
		Before	----	-180.000	-70.693	180.000	
		After	----	-180.000	-71.104	180.000	
		Before-Master	----	----	-69.538	----	
		After-Before	----	----	-0.411	----	
Thru Cal Mag - 40	V	Master	----	0.878	1.402	2.049	
		Before	----	0.878	1.390	2.049	
		After	----	0.878	1.361	2.049	
		Before-Master	----	----	-0.012	----	
		After-Before	----	----	-0.029	----	
Thru Cal Phase - 40	deg	Master	----	-180.000	1.247	180.000	
		Before	----	-180.000	-65.935	180.000	
		After	----	-180.000	-66.566	180.000	
		Before-Master	----	----	-67.182	----	
		After-Before	----	----	-0.631	----	
Thru Cal Mag - 41	V	Master	----	0.878	1.388	2.049	
		Before	----	0.878	1.386	2.049	
		After	----	0.878	1.362	2.049	
		Before-Master	----	----	-0.002	----	
		After-Before	----	----	-0.024	----	
Thru Cal Phase - 41	deg	Master	----	-180.000	-4.476	180.000	
		Before	----	-180.000	-74.004	180.000	
		After	----	-180.000	-74.225	180.000	

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		Before-Master	----	----	-69.528	----	
		After-Before	----	----	-0.221	----	
Thru Cal Mag - 42	V	Master	----	1.412	2.374	3.294	
		Before	----	1.412	2.402	3.294	
		After	----	1.412	2.373	3.294	
		Before-Master	----	----	0.028	----	
		After-Before	----	----	-0.029	----	
Thru Cal Phase - 42	deg	Master	----	-180.000	6.395	180.000	
		Before	----	-180.000	-163.559	180.000	
		After	----	-180.000	-165.022	180.000	
		Before-Master	----	----	-169.954	----	
		After-Before	----	----	-1.463	----	
Thru Cal Mag - 43	V	Master	----	1.412	2.403	3.294	
		Before	----	1.412	2.433	3.294	
		After	----	1.412	2.401	3.294	
		Before-Master	----	----	0.030	----	
		After-Before	----	----	-0.032	----	
Thru Cal Phase - 43	deg	Master	----	-180.000	6.166	180.000	
		Before	----	-180.000	-160.900	180.000	
		After	----	-180.000	-162.376	180.000	
		Before-Master	----	----	-167.066	----	
		After-Before	----	----	-1.476	----	
Thru Cal Mag - 44	V	Master	----	1.412	2.270	3.294	
		Before	----	1.412	2.326	3.294	
		After	----	1.412	2.306	3.294	
		Before-Master	----	----	0.056	----	
		After-Before	----	----	-0.020	----	
Thru Cal Phase - 44	deg	Master	----	-180.000	-5.856	180.000	
		Before	----	-180.000	-170.376	180.000	
		After	----	-180.000	-171.432	180.000	
		Before-Master	----	----	-164.520	----	
		After-Before	----	----	-1.056	----	

AIT Electronics Check - Auxiliary Measurements Reference Check

Master (EEPROM): 03:09:36 14-Dec-2012 Before (Measured): 22:45:55 03-Aug-2014 After (Measured): 04:05:32 04-Aug-2014
Expired by 507 days

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
SPA Zero	mV	Master		-0.050	0.000	0.050	
		Before		-50.000	-1.553	50.000	
		After		-50.000	-1.552	50.000	
		Before-Master	----	----	-1.553	----	
		After-Before	----	----	----	0.001	----
SPA Plus	mV	Master		0.757	0.000	0.915	
		Before		756.500	842.063	915.400	
		After		756.500	841.858	915.400	
		Before-Master	----	----	842.063	----	
		After-Before	----	----	----	-0.205	----
Temperature Zero	V	Master		-0.050	0.000	0.050	
		Before		-0.050	-0.003	0.050	
		After		-0.050	-0.003	0.050	
		Before-Master	----	----	-0.003	----	
		After-Before	----	----	----	0.000	----
Temperature Plus	V	Master		0.880	0.000	1.076	
		Before		0.880	0.988	1.076	
		After		0.880	0.987	1.076	
		Before-Master	----	----	0.988	----	
		After-Before	----	----	----	-0.001	----
Voltage Zero	V	Master		-0.100	0.000	0.100	
		Before		-0.100	-0.007	0.100	
		After		-0.100	-0.007	0.100	
		Before-Master	----	----	-0.007	----	
		After-Before	----	----	----	0.000	----
Voltage Plus	V	Master		4.500	0.000	5.500	
		Before		4.500	5.014	5.500	
		After		4.500	5.014	5.500	
		Before-Master	----	----	5.014	----	
		After-Before	----	----	----	0.000	----

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AIT Electronics Check - Power Supply Check

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit		
Power Supply - 0		Master	----	-4.000	-13.037	-12.000		
		Before	----	-4.000	-13.031	-12.000		
		After	----	----	-14.000	-13.029	-12.000	
		Before-Master	----	----	----	0.006	----	
		After-Before	----	----	----	0.002	----	
Power Supply - 1	V	Master	----	12.000	13.037	14.000		
		Before	----	12.000	13.031	14.000		
		After	----	12.000	13.029	14.000		
		Before-Master	----	----	----	-0.006	----	
		After-Before	----	----	----	-0.002	----	
Power Supply - 2	V	Master	----	-14.000	-13.024	-12.000		
		Before	----	-14.000	-13.019	-12.000		
		After	----	-14.000	-13.006	-12.000		
		Before-Master	----	----	----	0.005	----	
		After-Before	----	----	----	0.013	----	
Power Supply - 3	V	Master	----	12.000	12.972	14.000		
		Before	----	12.000	12.967	14.000		
		After	----	12.000	12.953	14.000		
		Before-Master	----	----	----	-0.005	----	
		After-Before	----	----	----	-0.014	----	
Power Supply - 4	V	Master	----	15.000	18.129	31.000		
		Before	----	15.000	18.797	31.000		
		After	----	15.000	17.817	31.000		
		Before-Master	----	----	----	0.668	----	
		After-Before	----	----	----	-0.980	----	
Power Supply - 5	V	Master	----	1.600	1.811	2.000		
		Before	----	1.600	1.811	2.000		
		After	----	1.600	1.808	2.000		
		Before-Master	----	----	----	0.000	----	
		After-Before	----	----	----	-0.003	----	
Power Supply - 6	V	Master	----	2.200	2.487	2.800		
		Before	----	2.200	2.487	2.800		
		After	----	2.200	2.485	2.800		
		Before-Master	----	----	----	0.000	----	
		After-Before	----	----	----	-0.002	----	
Power Supply - 7	V	Master	----	3.000	3.265	3.700		
		Before	----	3.000	3.263	3.700		
		After	----	3.000	3.260	3.700		
		Before-Master	----	----	----	-0.002	----	
		After-Before	----	----	----	-0.003	----	
Power Supply - 8	V	Master	----	4.500	4.967	5.600		
		Before	----	4.500	4.965	5.600		
		After	----	4.500	4.959	5.600		
		Before-Master	----	----	----	-0.002	----	
		After-Before	----	----	----	-0.006	----	
Power Supply - 9	V	Master	----	0.100	0.187	0.400		
		Before	----	0.100	0.207	0.400		
		After	----	0.100	0.212	0.400		
		Before-Master	----	----	----	0.020	----	
		After-Before	----	----	----	0.005	----	
Power Supply - 10	V	Master	----	0.100	0.192	0.400		
		Before	----	0.100	0.213	0.400		
		After	----	0.100	0.218	0.400		
		Before-Master	----	----	----	0.021	----	
		After-Before	----	----	----	0.005	----	

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DSLT-H (Digitizing Sonic Logging Tool - H) Calibration - Run ONE

Primary Equipment : Sonic Logging Sonde ES supports 3' 5" BH, DT and CBL VDL SLS E 1294

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CBL Normalization - CBL Accumulations

Master:

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

Upper Far Amplitude - 0		Master	-----	-----	-----	-----	
Upper Near Raw Amplitude - 0	mV	Master	-----	-----	-----	-----	
Lower Far Amplitude - 0		Master	-----	-----	-----	-----	
Lower Near Raw Amplitude - 0	mV	Master	-----	-----	-----	-----	

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CBL Normalization - CBL/VDL Coefficients

Master:

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
CBL Correction Factor for UT		Master	3.500	2.700	NOT DONE	4.300	
CBL Correction Factor for LT		Master	2.500	1.700	NOT DONE	4.300	
VDL Ratio between UT and LT for CBLB Mode		Master	1.000		NOT DONE		

CBL Free Pipe Adjustment - Free Pipe Measurement

Before:

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
CBL Amplitude - 0	mV	Before	-----	-----	-----	-----	
CBL Reference Amplitude (CBRA) - 0	mV	Before	-----	-----	-----	-----	
Measurement Depth - 0	ft	Before	-----	-----	-----	-----	

CBL Free Pipe Adjustment - CBL Amplitude Coefficient

Before:

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
CBL Adjustment Factor		Before	1.000	0.200	NOT DONE	5.000	
Depth of Before Calibration	ft	Before			NOT DONE		

HDRS-H (HILT Density and Rxo Sonde, 150 degC) Calibration - Run ONE

Primary Equipment :

HILT High-Resolution Control Cartridge, 150 degC	HRCC-H	
HILT Resistivity Gamma-Ray Density Device, 150 degC	HRGD-H	4700

Auxiliary Equipment :

HRDD Backscatter Detector	Backscatter	
HRDD Long Spacing Detector	Long Spacing	28642
HRDD Short Spacing Detector	Short Spacing	27727
Cesium 137 Gamma-Ray Logging Source	GSR-J	5233
HILT High-Resolution Control Cartridge, 150 degC	HRCC-H	
HILT High-Resolution Mechanical Sonde, 150 degC	HRMS-H	

Calibration Parameter :

Small Ring Size (Caliper Calibration Small Ring)	6.00
Large Ring Size (Caliper Calibration Large Ring)	12.00

HDRS Caliper Calibration - Caliper Accumulations

Before (Measured): 22:32:35 03-Aug-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Small Ring	in	Before	6.00	4.50	4.82	7.50	
Large Ring	in	Before	12.00	9.00	10.81	15.00	

HDRS Density Calibration - Inversion Results

Master (EEPROM): 12:05:32 08-Jul-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Rho Aluminum	g/cm3	Master	2.596	2.586	2.597	2.606	
Rho Magnesium	g/cm3	Master	1.686	1.676	1.691	1.696	
Pe Aluminum		Master	2.570	2.470	2.546	2.670	
Pe Magnesium		Master	2.650	2.550	2.627	2.750	

HDRS Density Calibration - Deviation Summary

Master (EEPROM): 12:05:32 08-Jul-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Average Deviation	%	Master	0	-0.0000	0.2889	0.6000	
BS Max Deviation	%	Master	0	-1.6000	0.6168	1.6000	
SS Average Deviation	%	Master	0	-1.0000	0.4692	1.0000	
SS Max Deviation	%	Master	0	-2.5000	1.7489	2.5000	
LS Average Deviation	%	Master	0	-1.5000	0.6208	1.5000	
LS Max Deviation	%	Master	0	-3.5000	1.8860	3.5000	

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HDRS Density Calibration - Background Summary

Master (EEPROM):		12:05:32 08-Jul-2014		Before (Measured):		22:28:41 03-Aug-2014	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Window Ratio		Master	1.0000		0.7391		
		Before	0.7391	0.7022	0.7324	0.7761	
		Before-Master	----	----	-0.0067	----	
BS Window Sum	1/s	Master	1		22933		
		Before	22933	21786	22875	24079	
		Before-Master	----	----	-58	----	
SS Window Ratio		Master	1.0000		0.4821		
		Before	0.4821	0.4580	0.4776	0.5062	
		Before-Master	----	----	-0.0045	----	
SS Window Sum	1/s	Master	1		10362		
		Before	10362	9844	10333	10880	
		Before-Master	----	----	-29	----	
LS Window Ratio		Master	1.0000		0.2979		
		Before	0.2979	0.2830	0.2973	0.3128	
		Before-Master	----	----	-0.0006	----	
LS Window Sum	1/s	Master	1		1277		
		Before	1277	1213	1273	1341	
		Before-Master	----	----	-4	----	

HDRS Density Calibration - Photo-multiplier High Voltages

Master (EEPROM):		12:05:32 08-Jul-2014		Before (Measured):		22:28:41 03-Aug-2014	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS PM High Voltage	V	Master		1000	1443	2400	
		Before		1000	1493	2400	
		Before-Master	----	-100	50	100	
SS PM High Voltage	V	Master		1000	1622	2400	
		Before		1000	1638	2400	
		Before-Master	----	-100	16	100	
LS PM High Voltage	V	Master		1000	1633	2400	
		Before		1000	1620	2400	
		Before-Master	----	-100	-13	100	

HDRS Density Calibration - Crystal Quality Resolutions

Master (EEPROM):		12:05:32 08-Jul-2014		Before (Measured):		22:28:41 03-Aug-2014	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Crystal Resolution	%	Master		5.00	10.92	25.00	
		Before		5.00	11.40	25.00	
		Before-Master	----	-1.00	0.48	1.00	
SS Crystal Resolution	%	Master		5.00	10.95	20.00	
		Before		5.00	10.63	20.00	
		Before-Master	----	-1.00	-0.32	1.00	
LS Crystal Resolution	%	Master		5.00	9.40	20.00	
		Before		5.00	9.13	20.00	
		Before-Master	----	-1.00	-0.27	1.00	

HDRS MCFL Calibration - MCFL Accumulations

Before (Measured):		22:30:12 03-Aug-2014					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Main Resistivity	ohm.m	Before	3875	3565	3840	4185	
Deep Resistivity	ohm.m	Before	3830	3524	3803	4136	
Shallow Resistivity	ohm.m	Before	3830	3524	3822	4136	

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

Primary Equipment :			
HILT Gamma-Ray and Neutron Sonde, 150 degC	HGNS-H		2786
Auxiliary Equipment :			
HGNS Accelerometer, 150 degC	HACCZ-H		5828
AmBe Neutron Logging Source	NSR-F		1320
Calibration Parameter :			
Water Temperature			

HGNS Accelerometer Calibration - Accelerometer Accumulations

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Before (Measured): 23:20:57 03-Aug-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
AZ Vertical Measurement	ft/s ²	Before	32.2	31.5	32.1	32.8	

HGNS Accelerometer EEPROM - Accelerometer EEPROM Read

Master (EEPROM): 00:00:00 15-Mar-2011

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	----	----	-12045.000	----	
Accelerometer Coefficients - 1		Master	----	----	22.540	----	
Accelerometer Coefficients - 2		Master	----	----	-0.015	----	
Accelerometer Coefficients - 3		Master	----	----	0.000	----	
Accelerometer Coefficients - 4		Master	----	----	2.788	----	
Accelerometer Coefficients - 5		Master	----	----	0.000	----	
Accelerometer Coefficients - 6		Master	----	----	0.000	----	
Accelerometer Coefficients - 7		Master	----	----	0.000	----	
Accelerometer Coefficients - 8		Master	----	----	299.500	----	
Accelerometer Coefficients - 9		Master	----	----	1.005	----	

HGNS Neutron Calibration - HGNS Neutron Accumulations

Master (EEPROM): 11:19:32 21-Jul-2014

Before (Measured): 22:26:57 03-Aug-2014

After (Measured): 04:10:41 04-Aug-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Near Zero Measurement	1/s	Master	0	5.0	27.4	40.0	
		Before	0	5.0	28.2	40.0	
		After	0	5.0	27.3	40.0	
		Before-Master	----	-4.1	0.8	4.1	
		After-Before	----	-4.2	-0.9	4.2	
Far Zero Measurement	1/s	Master	0	5.0	28.5	40.0	
		Before	0	5.0	34.4	40.0	
		After	0	5.0	31.2	40.0	
		Before-Master	----	-4.3	5.9	4.3	
		After-Before	----	-5.2	-3.2	5.2	
Near Plus Measurement	1/s	Master	6031.0	4700.0	5472.0	6900.0	
		Before	----	----	----	----	
		After	----	----	----	----	
		Before-Master	----	----	----	----	
		After-Before	----	----	----	----	
Far Plus Measurement	1/s	Master	2793.0	1900.0	2248.0	2900.0	
		Before	----	----	----	----	
		After	----	----	----	----	
		Before-Master	----	----	----	----	
		After-Before	----	----	----	----	
Near Corrected Plus Measurement	1/s	Master		4700.0	5403.0	6900.0	
		Before	----	----	----	----	
		After	----	----	----	----	
		Before-Master	----	----	----	----	
		After-Before	----	----	----	----	
Far Corrected Plus Measurement	1/s	Master		1900.0	2191.0	2900.0	
		Before	----	----	----	----	
		After	----	----	----	----	
		Before-Master	----	----	----	----	
		After-Before	----	----	----	----	

HGNS Gamma-Ray Calibration - Gamma-Ray Accumulations

Before (Measured): 22:54:51 03-Aug-2014

After (Measured):

04:09:27 04-Aug-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
RGR Zero Measurement	gAPI	Before	30.0	0	72.9	120.0	
		After	30.3	0	52.4	120.0	
		After-Before	----	----	20.5	----	
RGR Plus Measurement	gAPI	Before	179.8	152.4	156.1	200.0	
		After	185.4	157.1	169.6	206.3	
		After-Before	----	----	13.5	----	

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GR Calibration Gain	Before	0.89	0.80	1.02	1.05
	After	----	----	----	----
	After-Before	----	----	----	----

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

Primary Equipment :			
HNGS Sonde Element	HNGS-BA	169	
Auxiliary Equipment :			
Hostile Natural Gamma Ray Cartridge	HNGC-B	605	
HNGS Housing Element	HEH-K	186	
		0	
Housing for the HNGC	HNGH-A	4089	

HNGS Background and Na22 Set Point Determination - Detector 1 Check

Master (EEPROM):		01:51:05 13-Jun-2014	Before (Measured):		22:33:00 03-Aug-2014	After (Measured):		04:12:13 04-Aug-2014
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit		
Na 511 Peak Location		Master	40.000	37.500	38.600	42.500		
		Before	40.000	37.500	40.408	42.500		
		After	40.000	37.500	40.558	42.500		
		Before-Master	----	----	1.808	----		
		After-Before	----	----	0.150	----		
Na 511 Peak Resolution	%	Master	15.500	12.000	15.259	19.000		
		Before	15.500	12.000	15.512	19.000		
		After	15.500	12.000	16.472	19.000		
		Before-Master	----	----	0.253	----		
		After-Before	----	----	0.960	----		
High Voltage DAC Value	V	Master			1049.262			
		Before	1150.000	850.000	1069.225	1600.000		
		After	1150.000	850.000	1086.469	1600.000		
		Before-Master	----	----	19.963	----		
		After-Before	----	----	17.244	----		
Na 1785 Peak Location		Master	142.650	135.000	139.451	150.300		
		Before	142.650	135.000	144.568	150.300		
		After	142.650	135.000	145.667	150.300		
		Before-Master	----	----	5.117	----		
		After-Before	----	----	1.099	----		
Na 1785 Peak Resolution	%	Master	8.500	7.000	8.971	11.000		
		Before	8.500	7.000	10.012	11.000		
		After	8.500	7.000	9.241	11.000		
		Before-Master	----	----	1.041	----		
		After-Before	----	----	-0.771	----		
Temperature - 0	degF	Master	----	----	----	----		
		Before	59.900	-20.002	87.357	140.000		
		After	59.900	-20.002	101.182	140.000		
		Before-Master	----	----	----	----		
		After-Before	----	----	13.825	----		
Na Count Rate	CPS	Master	45.000	10.000	28.578	100.000		
		Before	45.000	10.000	27.733	100.000		
		After	45.000	10.000	27.296	100.000		
		Before-Master	----	----	-0.845	----		
		After-Before	----	----	-0.437	----		

HNGS Background and Na22 Set Point Determination - Detector 2 Check

Master (EEPROM):		01:51:05 13-Jun-2014	Before (Measured):		22:33:00 03-Aug-2014	After (Measured):		04:12:13 04-Aug-2014
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit		
Na 511 Peak Location		Master	40.000	37.500	39.576	42.500		
		Before	40.000	37.500	39.958	42.500		
		After	40.000	37.500	39.574	42.500		
		Before-Master	----	----	0.382	----		
		After-Before	----	----	-0.384	----		
Na 511 Peak Resolution	%	Master	15.500	12.000	16.469	19.000		
		Before	15.500	12.000	16.850	19.000		
		After	15.500	12.000	17.744	19.000		
		Before-Master	----	----	0.381	----		
		After-Before	----	----	0.894	----		

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High Voltage DAC Value	V	Master	1150.000	850.000	1087.329	1600.000	
		Before	1150.000	850.000	1106.102	1600.000	
		After	1150.000	850.000	1121.056	1600.000	
		Before-Master	----	----	18.773	----	
		After-Before	----	----	14.954	----	
Na 1785 Peak Location		Master	142.650	135.000	140.419	150.300	
		Before	142.650	135.000	141.514	150.300	
		After	142.650	135.000	141.121	150.300	
		Before-Master	----	----	1.095	----	
		After-Before	----	----	-0.393	----	
Na 1785 Peak Resolution	%	Master	8.500	7.000	10.020	11.000	
		Before	8.500	7.000	9.683	11.000	
		After	8.500	7.000	9.702	11.000	
		Before-Master	----	----	-0.337	----	
		After-Before	----	----	0.019	----	
Temperature - 0	degF	Master	----	----	----	----	
		Before	59.900	-20.002	88.248	140.000	
		After	59.900	-20.002	100.070	140.000	
		Before-Master	----	----	----	----	
		After-Before	----	----	11.822	----	
Na Count Rate	CPS	Master	45.000	10.000	28.817	100.000	
		Before	45.000	10.000	28.358	100.000	
		After	45.000	10.000	28.024	100.000	
		Before-Master	----	----	-0.459	----	
		After-Before	----	----	-0.334	----	

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

Master (EEPROM): 01:51:05 13-Jun-2014		Before (Measured): 22:33:00 03-Aug-2014		After (Measured): 04:12:13 04-Aug-2014		
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Coincidence Count Rate Ratio		Master			0.983	
		Before	1.000	0.950	0.974	1.050
		After	1.000	0.950	0.974	1.050
		Before-Master	----	----	-0.009	----
		After-Before	----	----	0.000	----

HNGS Background and Na22 Set Point Determination - Detector 1 Calibration

Master (EEPROM): 01:51:05 13-Jun-2014		Before (Measured): 22:33:00 03-Aug-2014		After (Measured): 04:12:13 04-Aug-2014		
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Th Peak Location		Master	209.630	201.000	207.069	218.250
		Before	----	----	----	----
		After	----	----	----	----
		Before-Master	----	----	----	----
		After-Before	----	----	----	----
Th Peak Resolution	%	Master	7.000	5.000	7.351	9.000
		Before	----	----	----	----
		After	----	----	----	----
		Before-Master	----	----	----	----
		After-Before	----	----	----	----
Background Count Rate	CPS	Master			110.158	
		Before	142.500	10.000	205.115	265.000
		After	142.500	10.000	228.500	265.000
		Before-Master	----	----	94.957	----
		After-Before	----	----	23.385	----
Gain Ratio		Master	1.000	0.940	1.020	1.060
		Before	----	----	----	----
		After	----	----	----	----
		Before-Master	----	----	----	----
		After-Before	----	----	----	----

HNGS Background and Na22 Set Point Determination - Detector 2 Calibration

Master (EEPROM): 01:51:05 13-Jun-2014		Before (Measured): 22:33:00 03-Aug-2014		After (Measured): 04:12:13 04-Aug-2014		
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Th Peak Location		Master	209.630	201.000	207.587	218.250
		Before	----	----	----	----
		After	----	----	----	----
		Before-Master	----	----	----	----
		After-Before	----	----	----	----
Th Peak Resolution	%	Master	7.000	5.000	7.481	9.000
		Before	----	----	----	----

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		After	----	----	----	----	
		Before-Master	----	----	----	----	
		After-Before	----	----	----	----	
Background Count Rate	CPS	Master	1.2.00	10.00	109.187	265.000	
		Before	----	----	207.235	265.000	
		After	142.500	10.000	226.744	265.000	
		Before-Master	----	----	98.048	----	
		After-Before	----	----	19.509	----	
Gain Ratio		Master	1.000	0.940	0.998	1.060	
		Before	----	----	----	----	
		After	----	----	----	----	
		Before-Master	----	----	----	----	
		After-Before	----	----	----	----	

HNGS Background and Na22 Set Point Determination - Detector 1 Calibration

Master (EEPROM):		01:51:05 13-Jun-2014	Before (Measured):		22:33:00 03-Aug-2014	After (Measured):		04:12:13 04-Aug-2014
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit		
Na 511 Peak Set Point		Master	40.000	38.000	42.000	43.500		
		Before	----	----	----	----		
		After	----	----	----	----		
		Before-Master	----	----	----	----		
		After-Before	----	----	----	----		

HNGS Background and Na22 Set Point Determination - Detector 2 Calibration

Master (EEPROM):		01:51:05 13-Jun-2014	Before (Measured):		22:33:00 03-Aug-2014	After (Measured):		04:12:13 04-Aug-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	----	----	----	----		
		After	----	----	----	----		
		Before-Master	----	----	----	----		
		After-Before	----	----	----	----		

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Company:	Alta Mesa Services	Schlumberger
Well:	Kauffman 1-34	
Field:	Willow	
County:	Payette	
State:	Idaho	

Platform Express
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