HALLIBURTON

SPECTRAL DENSITY
DUAL SPACED NEUTRON
BOREHOLE COMP SONIC
ARRAY COMPENSATED
TRUE RESISTIVITY

CONFIDENTIAL

COMPANY	BRIDGE ENERGY.LLC		
WELL	ESPINO 1 - 2		
FIELD	WILDCAT		
COUNTY	PAYETTE	STATE	IDAHO

COMPANY BRIDGE ENERGY.LLC
WELL ESPINO 1 - 2
FIELD WILDCAT
COUNTY PAYETTE
STATE IDAHO

API No. 11075200040000

Location SURFACE HOLE LOCATION:
1603' FSL & 1247' FEL NESE

Sect. 2 Twp. 7N Rge. 4W

Other Services:
RWCH

Permanent Datum	GL	Elev. 2223.0 ft	Elev.: K.B.	2235.0 ft
Log measured from	KB	12.0 ft above perm. Datum	D.F.	2234.0 ft
Drilling measured from	KB		G.L.	2223.0 ft

Date		03-Apr-10				
Run No.		ONE				
Depth - Driller		4500.00 ft				
Depth - Logger		4498.0 ft				
Bottom - Logged Interval		4493.0 ft				
Top - Logged Interval		100.0 ft				
Casing - Driller		9.625 in	@ 793.0 ft	@		@
Casing - Logger		791.0 ft				
Bit Size		8.750 in		@		@
Type Fluid in Hole		WBM				
Density	Viscosity	10.3 ppg	50.00 s/qt			
PH	Fluid Loss	8.40 pH	7.2 cptm			
Source of Sample		MUD TANK				
Rm @ Meas. Temperature		1.720 ohmm	@ 66.80 degF	@		@
Rmf @ Meas. Temperature		1.42 ohmm	@ 75.00 degF	@		@
Rmc @ Meas. Temperature		1.253 ohmm	@ 75.00 degF	@		@
Source Rmf	Rmc	MEAS.	MEAS.			
Rm @ BHT		1.61 ohmm	@ 181.0 degF	@		@
Time Since Circulation		12.0 hr				
Time on Bottom		03-Apr-10 12:02				
Max. Rec. Temperature		181.0 degF	@ 4498.0 ft	@		@
Equipment	Location	11170614	ROCK SPRINC			
Recorded By		J. MAYNE				
Witnessed By		RON RICHARDS				

Fold here

Service Ticket No.: 7284307 API Serial No.: 11075200040000 PGM Version: WL INSITE R3.0.3 (Build 5)

CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE					
Date	Sample No.				
Depth-Driller					
Type Fluid in Hole					
Density	Viscosity				
Ph	Fluid Loss				
Source of Sample					
Rm @ Meas. Temp		@		@	
Rmf @ Meas. Temp.		@		@	
Rmc @ Meas. Temp.		@		@	
Source Rmf	Rmc				
Rm @ BHT		@		@	
Rmf @ BHT		@		@	
Rmc @ BHT		@		@	

RESISTIVITY SCALE CHANGES			
Type Log	Depth	Scale Up Hole	Scale Down Hole

RESISTIVITY EQUIPMENT DATA				
Run No.	Tool Type & No.	Pad Type	Tool Pos.	Other
ONE	ACRT-	N/A	1.5" S.O.	N/A
	E171-S970			

EQUIPMENT DATA

GAMMA		ACOUSTIC		DENSITY		NEUTRON	
Run No.	ONE	Run No.	ONE	Run No.	ONE	Run No.	ONE
Serial No.	11238317	Serial No.	10939067	Serial No.	10947725	Serial No.	11020488
Model No.	GTET	Model No.	BSAT	Model No.	SDLT	Model No.	DSNT
Diameter	3.625"	No. of Cent.	2	Diameter	4.5"	Diameter	3.625"
Detector Model No.	102A	Spacing	5'	Log Type	GAMMA/AM	Log Type	THERM/THERM
Type	SCINT			Source Type	Cs137	Source Type	Am241Be
Length	8'	LSA [Y/N]	N	Serial No.	5235GW	Serial No.	08-018
Distance to Source	10"	FWDA [Y/N]	N	Strength	1.5Ci	Strength	15Ci

LOGGING DATA

GENERAL	GAMMA	ACOUSTIC	DENSITY	NEUTRON

GENERAL				GAMMA		ACOUSTIC			DENSITY			NEUTRON		
Run	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix
No.	From	To	ft/min	L	R	L	R		L	R		L	R	
ONE	4498'	100'	REC	0	200	40%	0%	55.5 µs/f	40%	0%	2.68 g/cc	40%	0%	SAND

DIRECTIONAL INFORMATION

Maximum Deviation @ KOP @

Remarks: RWCH-GTET-DSNT-SDLT-BSAT-ACRT WERE RAN IN COMBINATION

ANNULAR HOLE VOLUME CALCULATED FOR 5.5" CASING

BOREHOLE RUGOSITY, TENSION PULLS AND WASHOUTS MAY EFFECT LOG QUALITY

LATITUDE:43deg 58 17.86

LONGITUDE:-116deg 46 37.19

TODAY'S CREW: D. MILLER, S. BENGSTON & PAT RITZKIE RIG: ENSIGN 516

THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES, ROCK SPRINGS, (307) 352-8600 ***

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PARAMETERS REPORT

Depth (ft)	Tool Name	Mnemonic	Description	Value	Units
TOP					
	SHARED	BS	Bit Size	8.750	in
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No	
	SHARED	MDWT	Borehole Fluid Weight	10.250	ppg
	SHARED	OBM	Oil Based Mud System?	No	
	SHARED	RMUD	Mud Resistivity	2.000	ohmm
	SHARED	TRM	Temperature of Mud	75.0	degF
	SHARED	CSD	Logging Interval is Cased?	No	
	SHARED	ICOD	AHV Casing OD	5.500	in
	SHARED	ST	Surface Temperature	75.0	degF
	SHARED	TD	Total Well Depth	4500.00	ft
	SHARED	BHT	Bottom Hole Temperature	200.0	degF
	SHARED	SVTM	Navigation and Survey Master Tool	NONE	
	SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET	
	SHARED	TEMM	Temperature Master Tool	NONE	
	SHARED	BHSM	Borehole Size Master Tool	NONE	
	Rwa / CrossPlot	XPOK	Process Crossplot?	Yes	
	Rwa / CrossPlot	FCHO	Select Source of F	Automatic	
	Rwa / CrossPlot	AFAC	Archie A factor	0.6200	
	Rwa / CrossPlot	MFAC	Archie M factor	2.1500	
	Rwa / CrossPlot	RMFR	Rmf Reference	0.10	ohmm
	Rwa /	TMFR	Rmf Ref Temp	75.00	degF

CrossPlot				
Rwa / CrossPlot	RWA	Resistivity of Formation Water	0.05	ohmm
Rwa / CrossPlot	ADP	Use Air Porosity To Calculate Crossplot?	No	
GTET	GROK	Process Gamma Ray?	Yes	
GTET	GRSO	Gamma Tool Standoff	0.000	in
GTET	GEOK	Process Gamma Ray EVR?	No	
GTET	POTA	Potassium	0.00	%
GTET	MDTP	Mud Type	Natural	
GTET	TPOS	Tool Position	Standoff	
DSNT	DNOK	Process DSN?	Yes	
DSNT	DEOK	Process DSN EVR?	No	
DSNT	NLIT	Neutron Lithology	Sandstone	
DSNT	DNSO	DSN Standoff - 0.25 in (6.35 mm) Recommended	0.000	in
DSNT	DNTP	Temperature Correction Type	None	
DSNT	DPRS	DSN Pressure Correction Type	None	
DSNT	SHCO	View More Correction Options	No	
DSNT	UTVD	Use TVD for Gradient Corrections?	No	
DSNT	LHWT	Logging Horizontal Water Tank?	No	
SDLT	DNOK	Process Density?	Yes	
SDLT	DNOK	Process Density EVR?	No	
SDLT	AD	Is Hole Air Drilled?	No	
SDLT	CB	Logging Calibration Blocks?	No	
SDLT	SPVT	SDLT Pad Temperature Valid?	Yes	
SDLT	DTWN	Disable temperature warning	No	
SDLT	MDTP	Weighted Mud Correction Type?	Barite	
SDLT	DMA	Formation Density Matrix	2.680	g/cc
SDLT	DFL	Formation Density Fluid	1.000	g/cc
SDLT	CLOK	Process Caliper Outputs?	Yes	
SDLT	MLOK	Process MicroLog Outputs?	Yes	
BSAT	MBOK	Compute BCAS Results?	Yes	
BSAT	FLLO	Semblance Filter Low Pass Value?	5000	Hz
BSAT	FLHI	Semblance Filter High Pass Value?	27000	Hz
BSAT	DTFL	Delta-T Fluid	189.00	uspf
BSAT	DTMT	Delta-T Matrix Type	Sandstone 55.5	
BSAT	DTSH	Delta-T Shale	100.00	uspf
BSAT	SPEQ	Acoustic Porosity Equation	Wylie	
ACRt	RTOK	Process ACRt?	Yes	
ACRt	MNSO	Minimum Tool Standoff	1.50	in
ACRt	TCS1	Temperature Correction Source	FP Lwr & FP Upr	
ACRt	TPOS	Tool Position	Free Hanging	
ACRt	RMOP	Rmud Source	Mud Cell	
ACRt	RMIN	Minimum Resistivity for MAP	0.20	ohmm
ACRt	RMIN	Maximum Resistivity for MAP	200.00	ohmm
ACRt	THQY	Threshold Quality	0.50	

BOTTOM

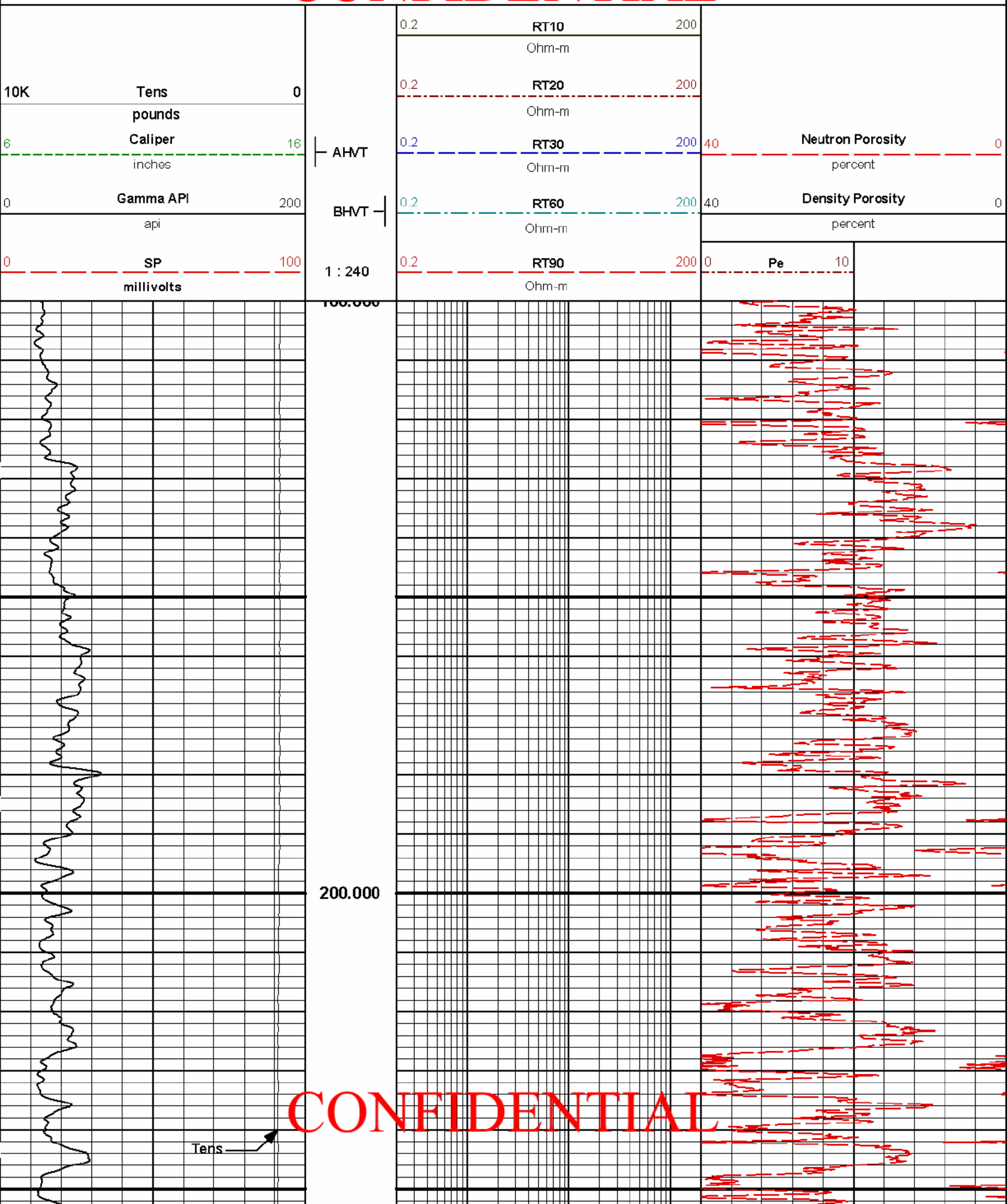
Data: BRIDGE_ESP_1_2\0001 QUAD-BSAT\IDLE

Date: 04-Apr-10 13:23:57

HALLIBURTON

Plot Time: 04-Apr-10 20:43:05
Plot Range: 100 ft to 4501.92 ft
Data: BRIDGE_ESP_1_2\Well Based\MAIN
Plot File: \\(not saved)\IO_COMPOSITE_ACRT_MAIN_FM

MAIN PASS 5" = 100'



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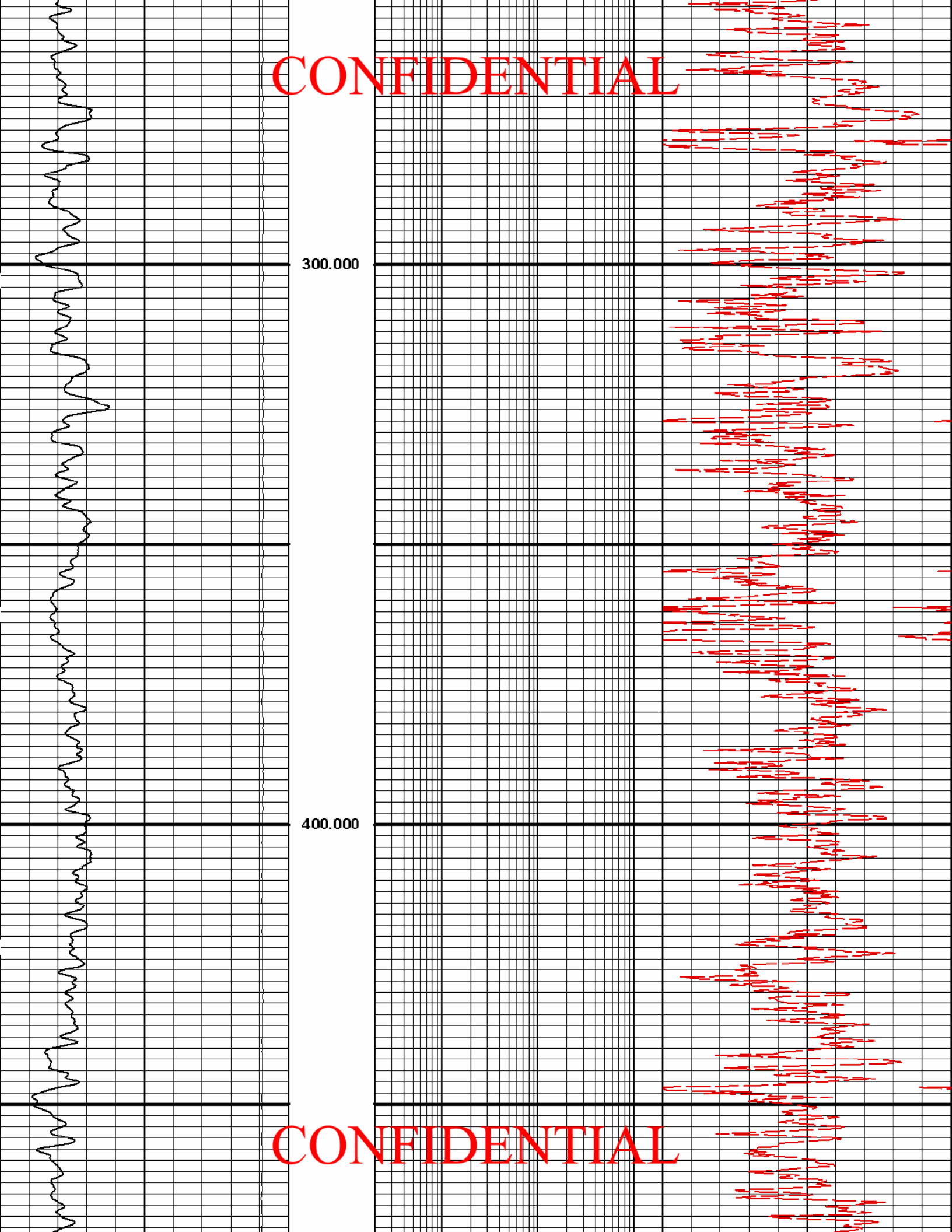
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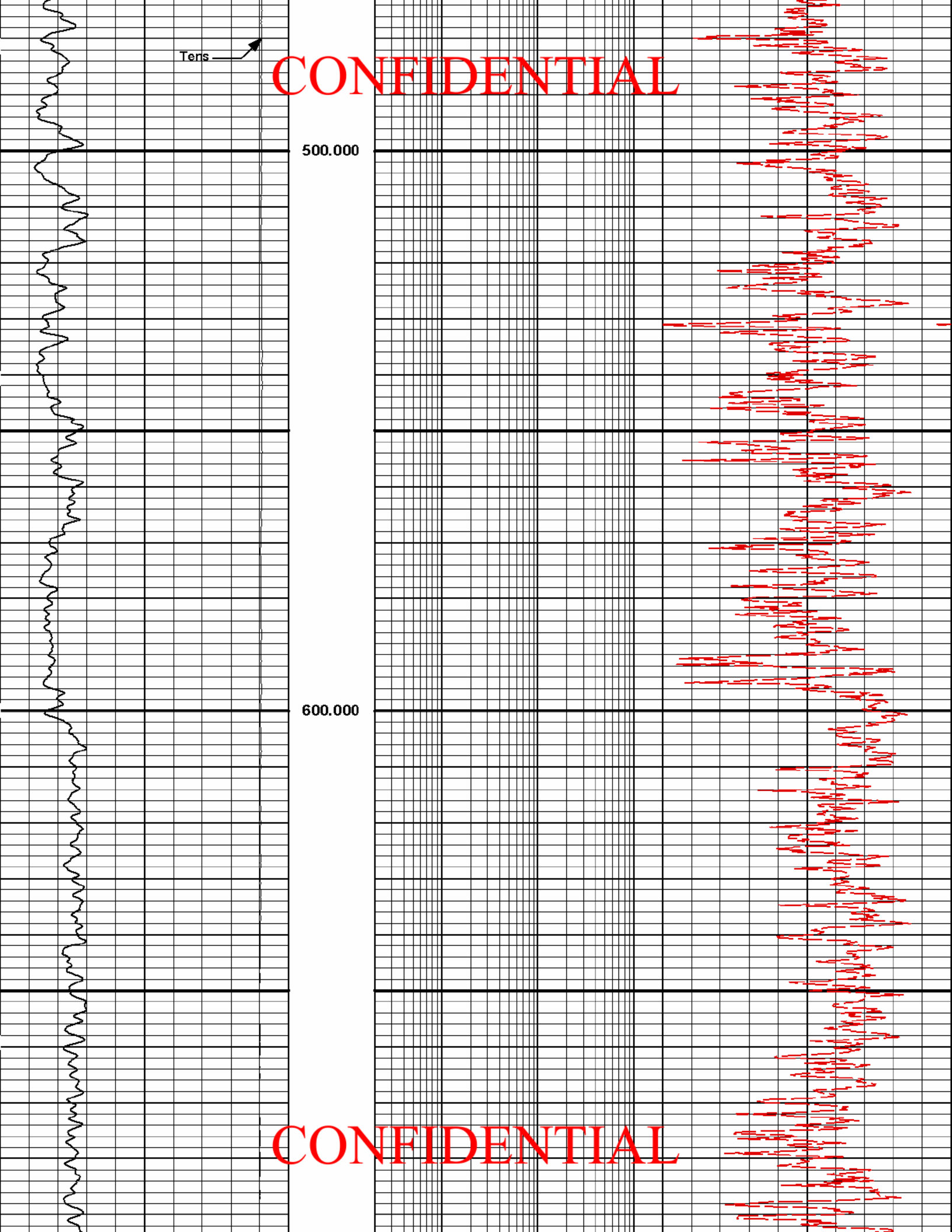
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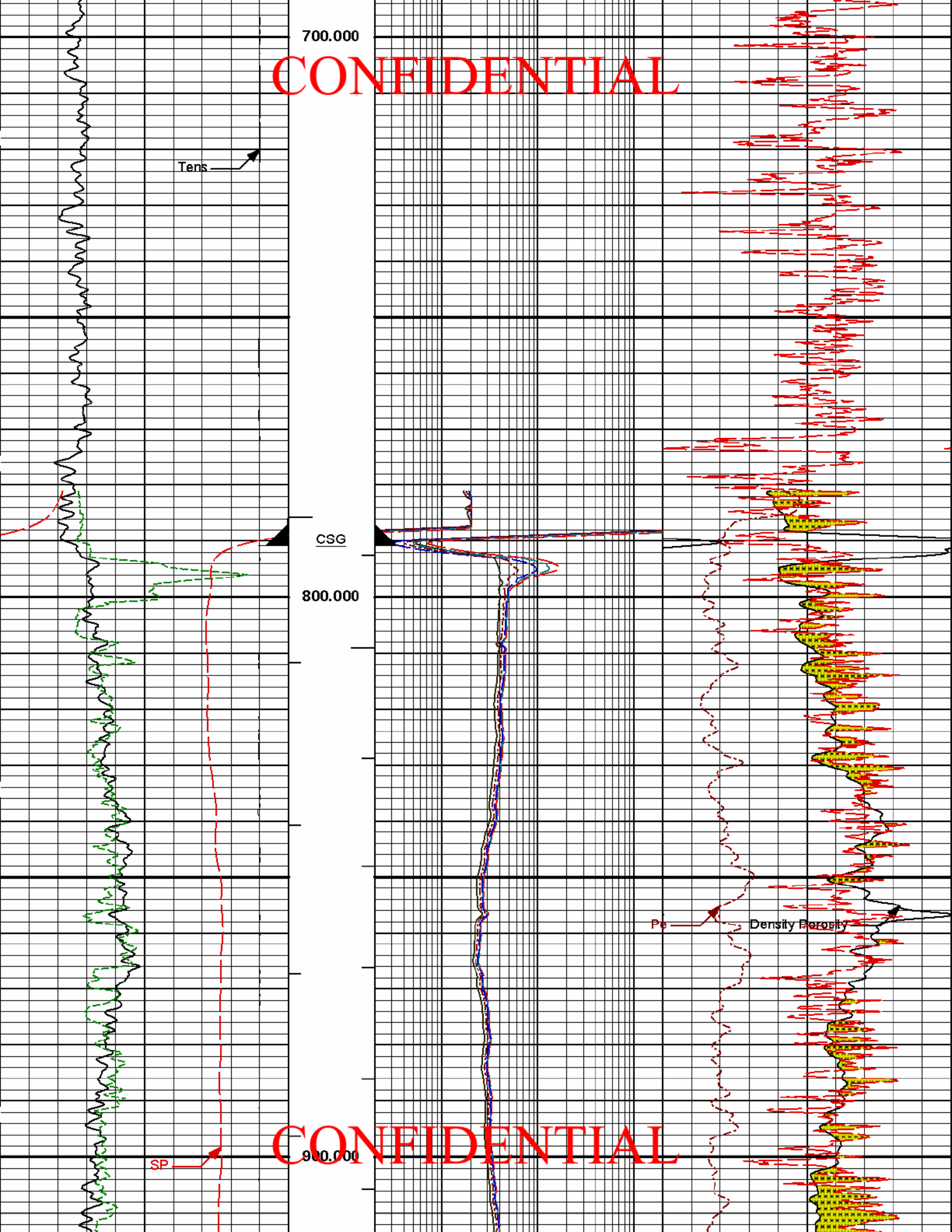
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Pe
Density Porosity
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SP
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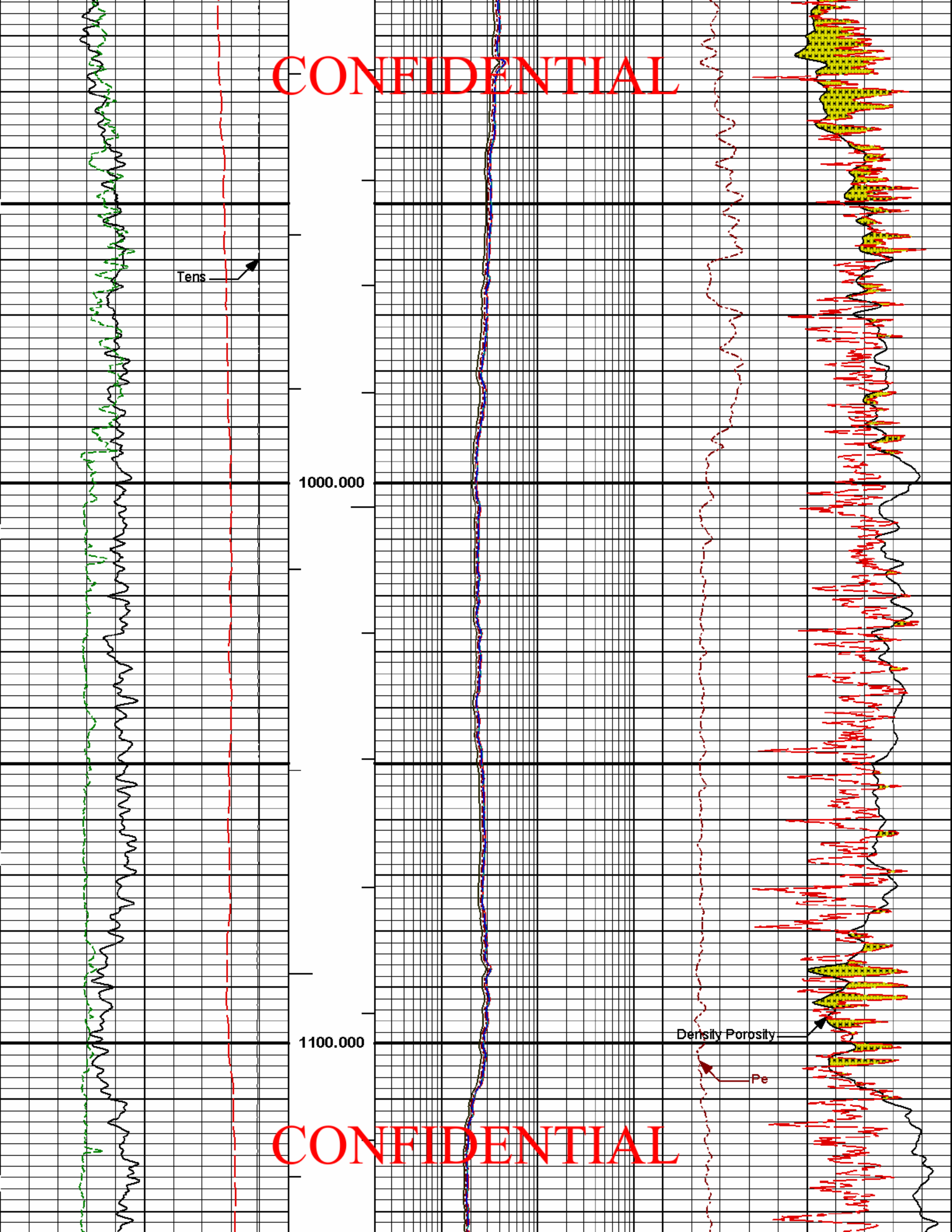

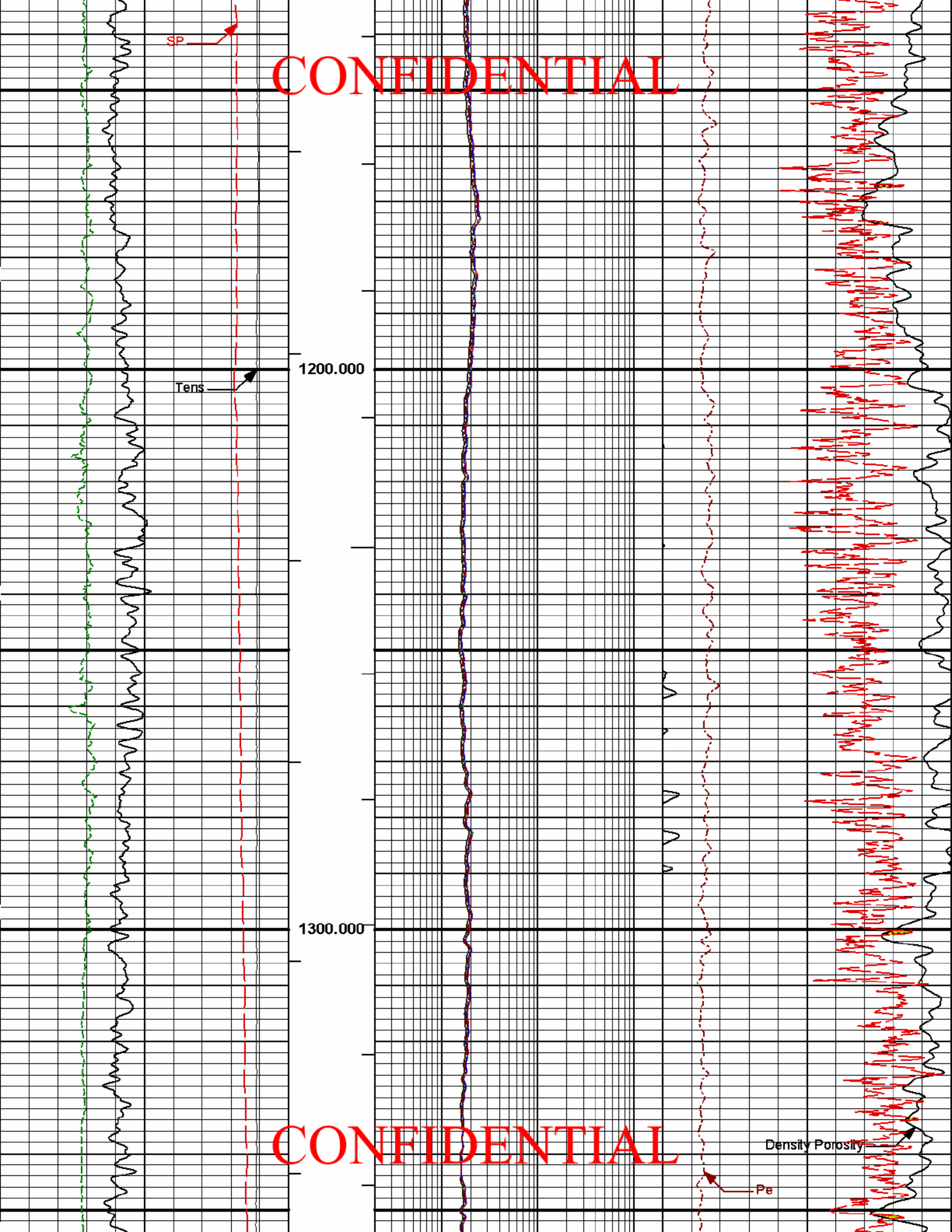

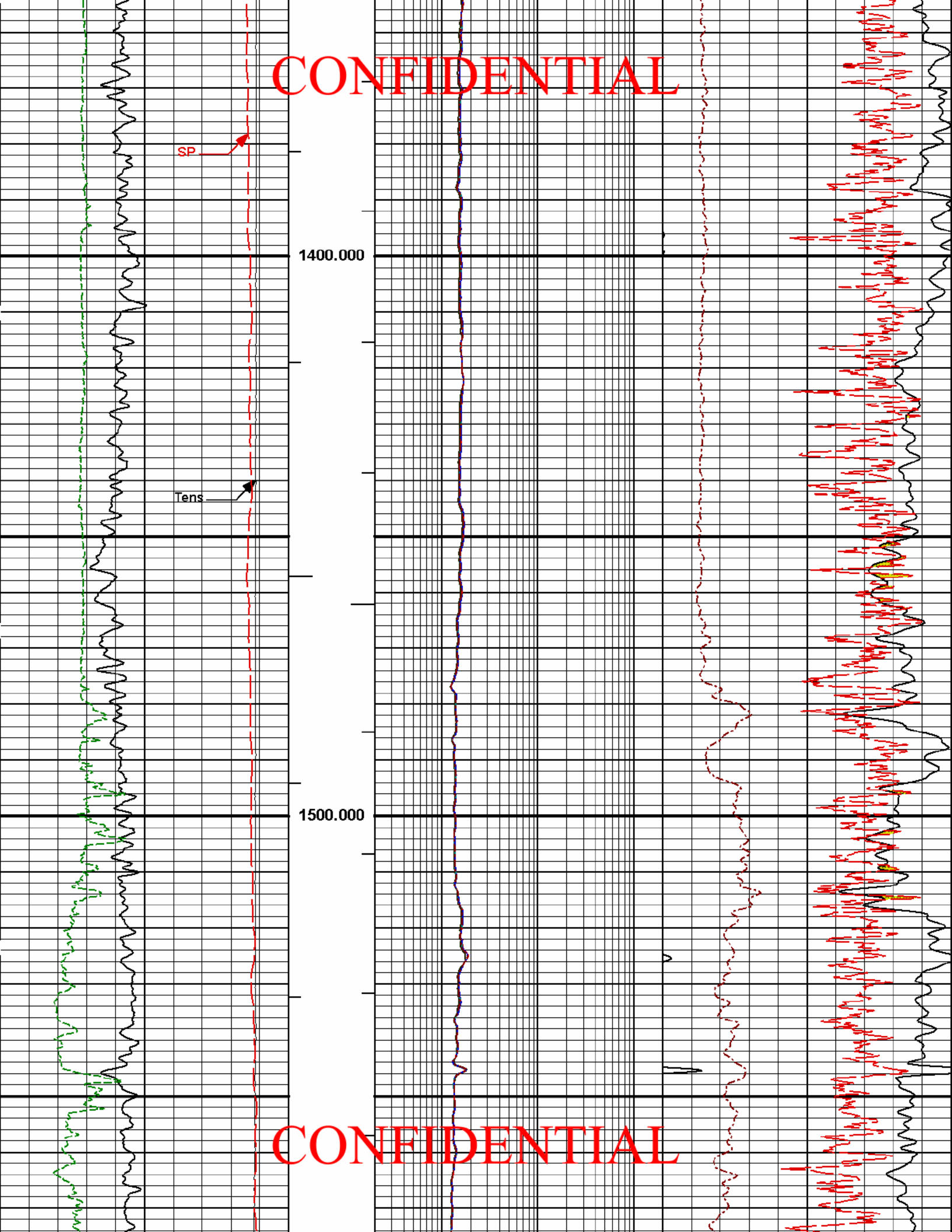
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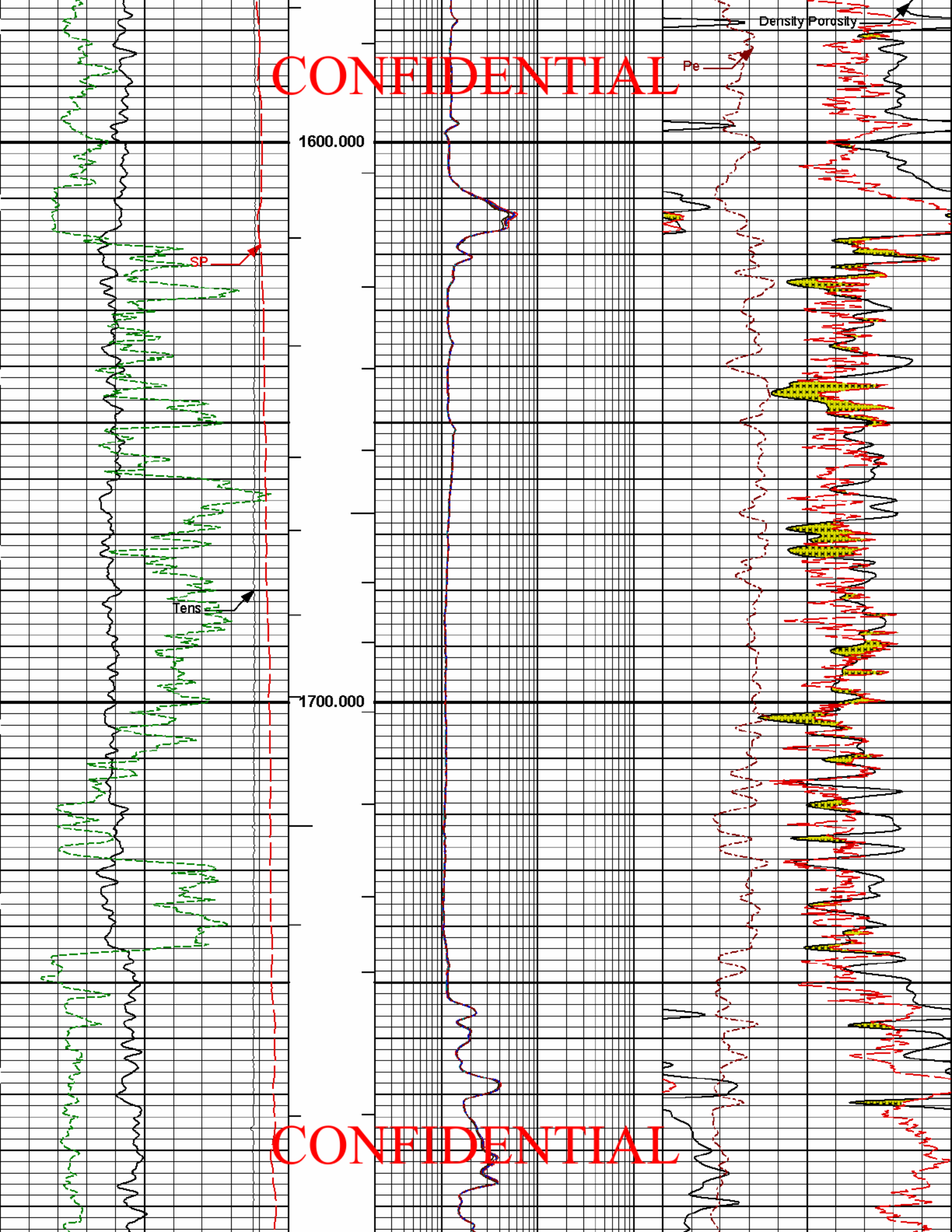

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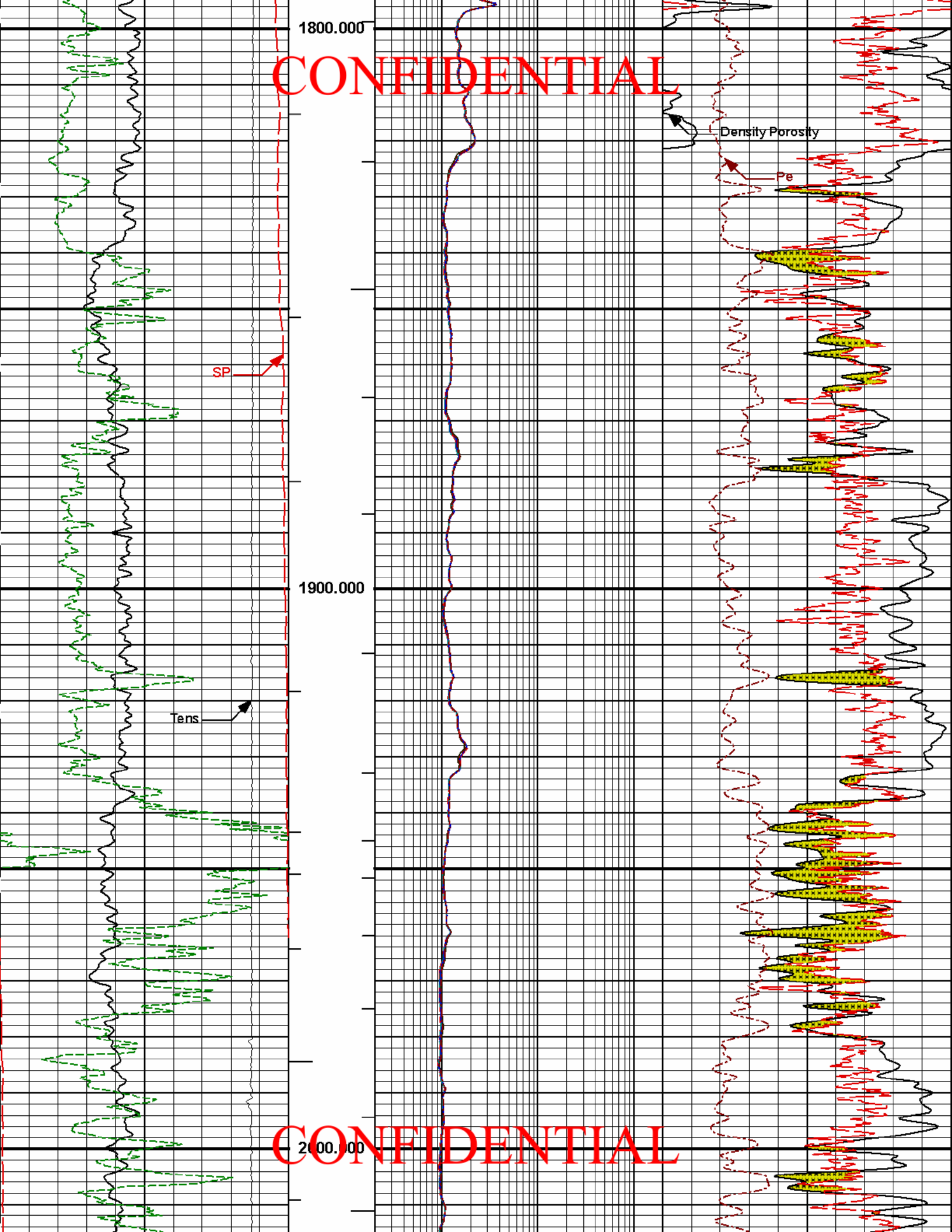
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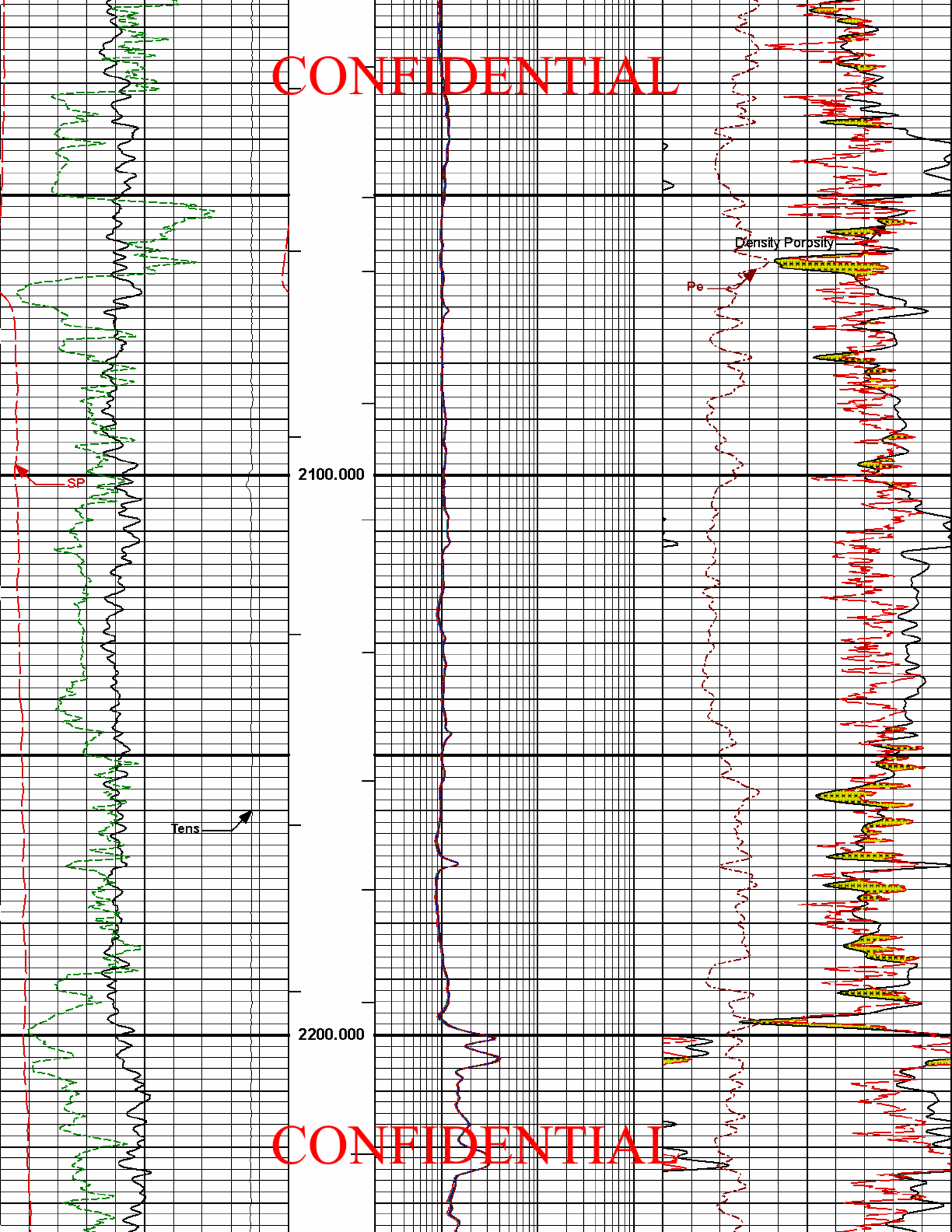

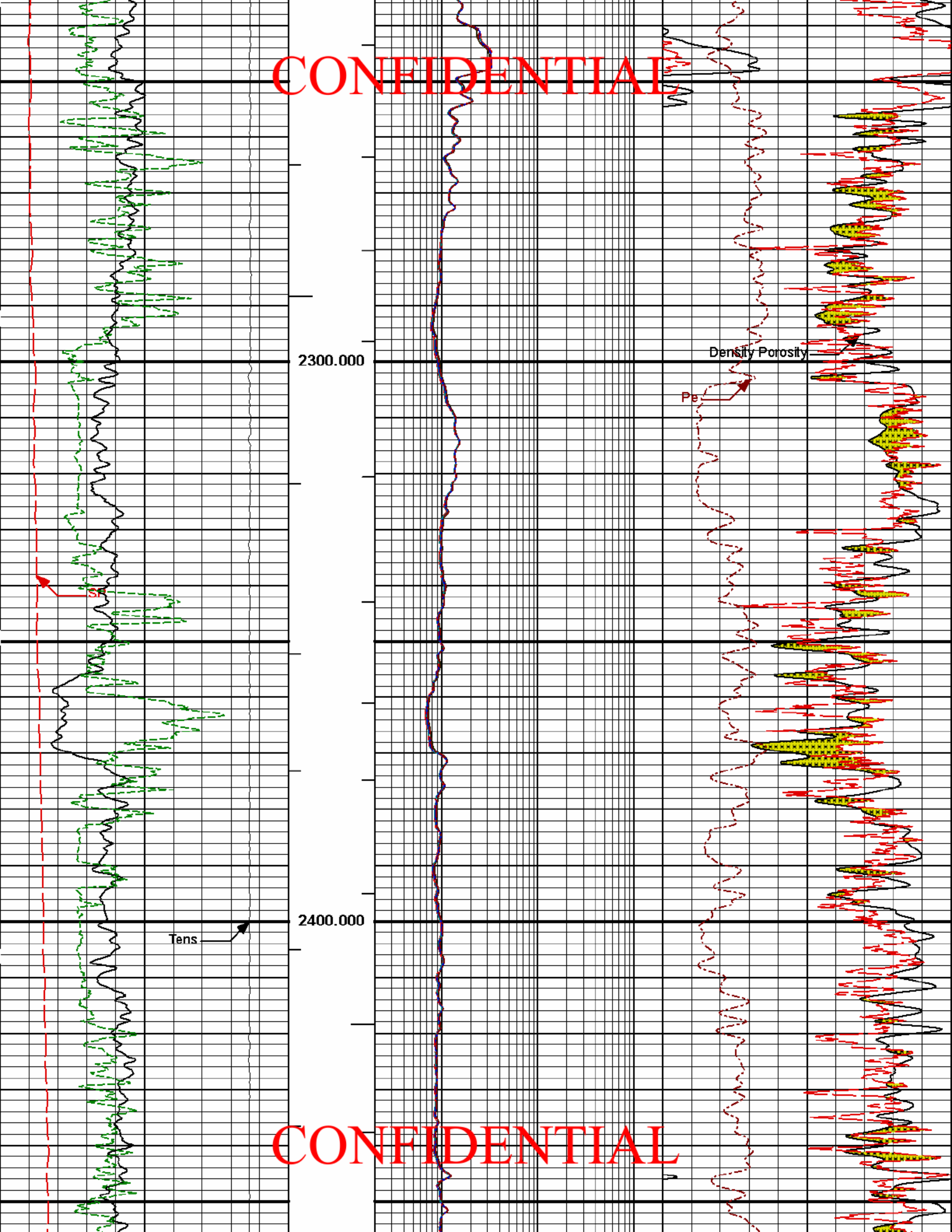
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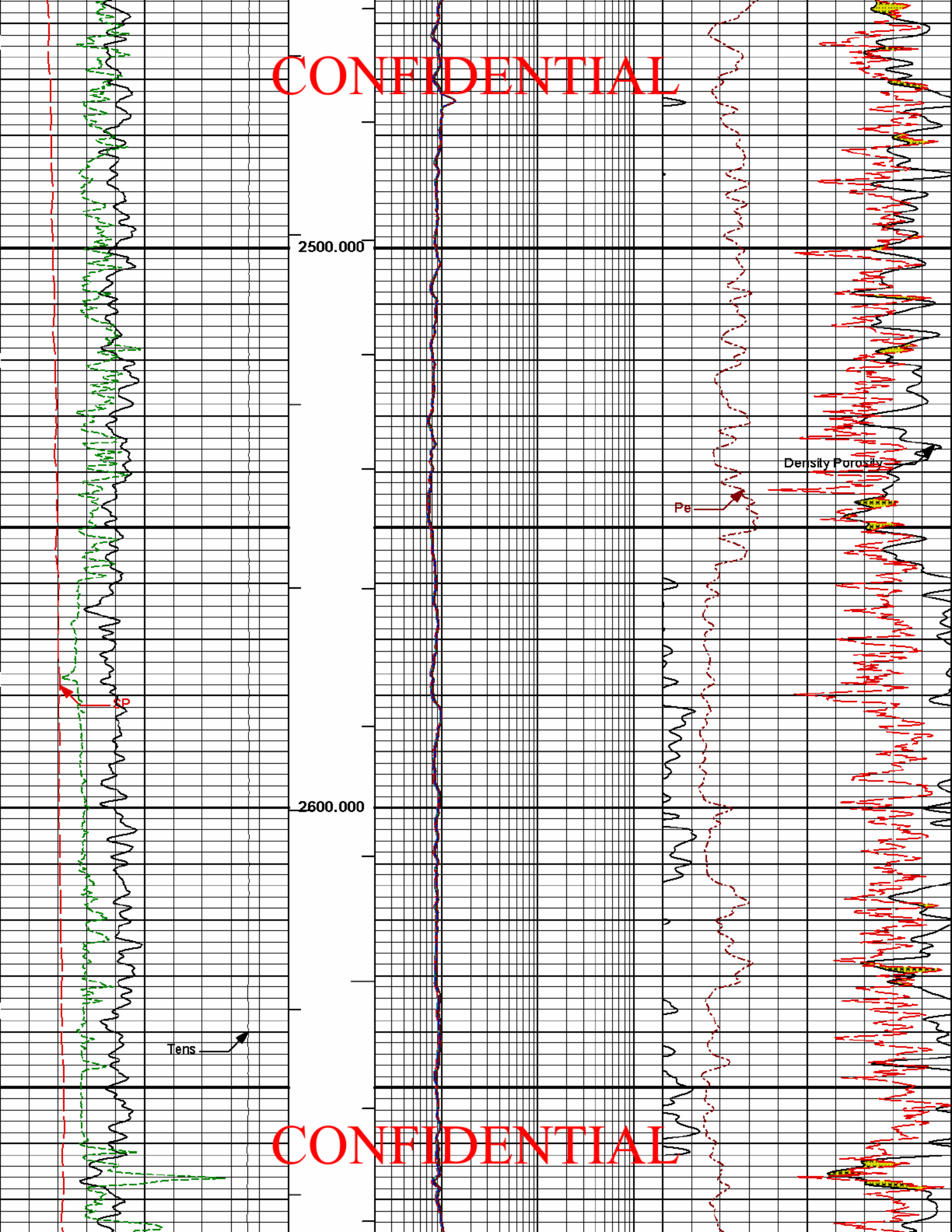
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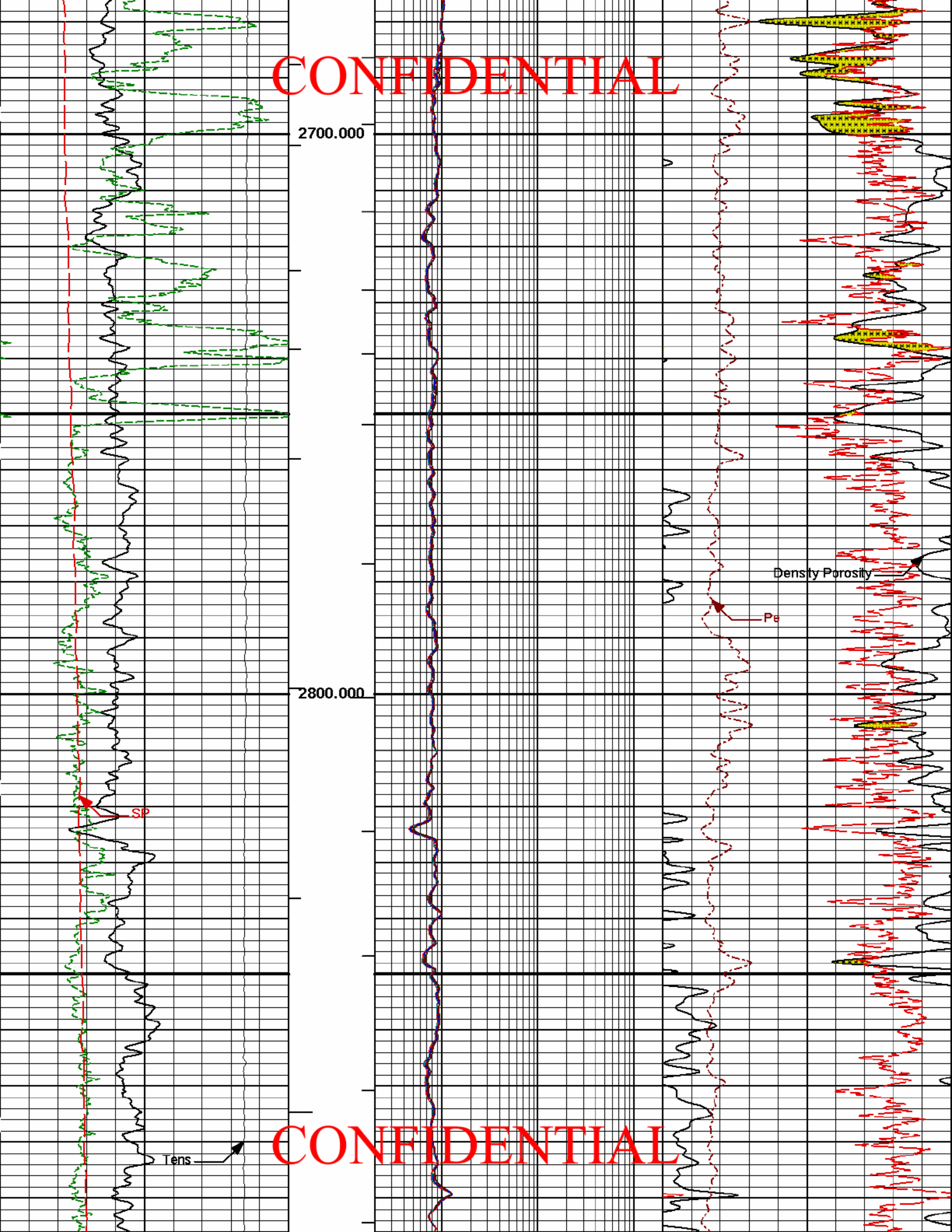
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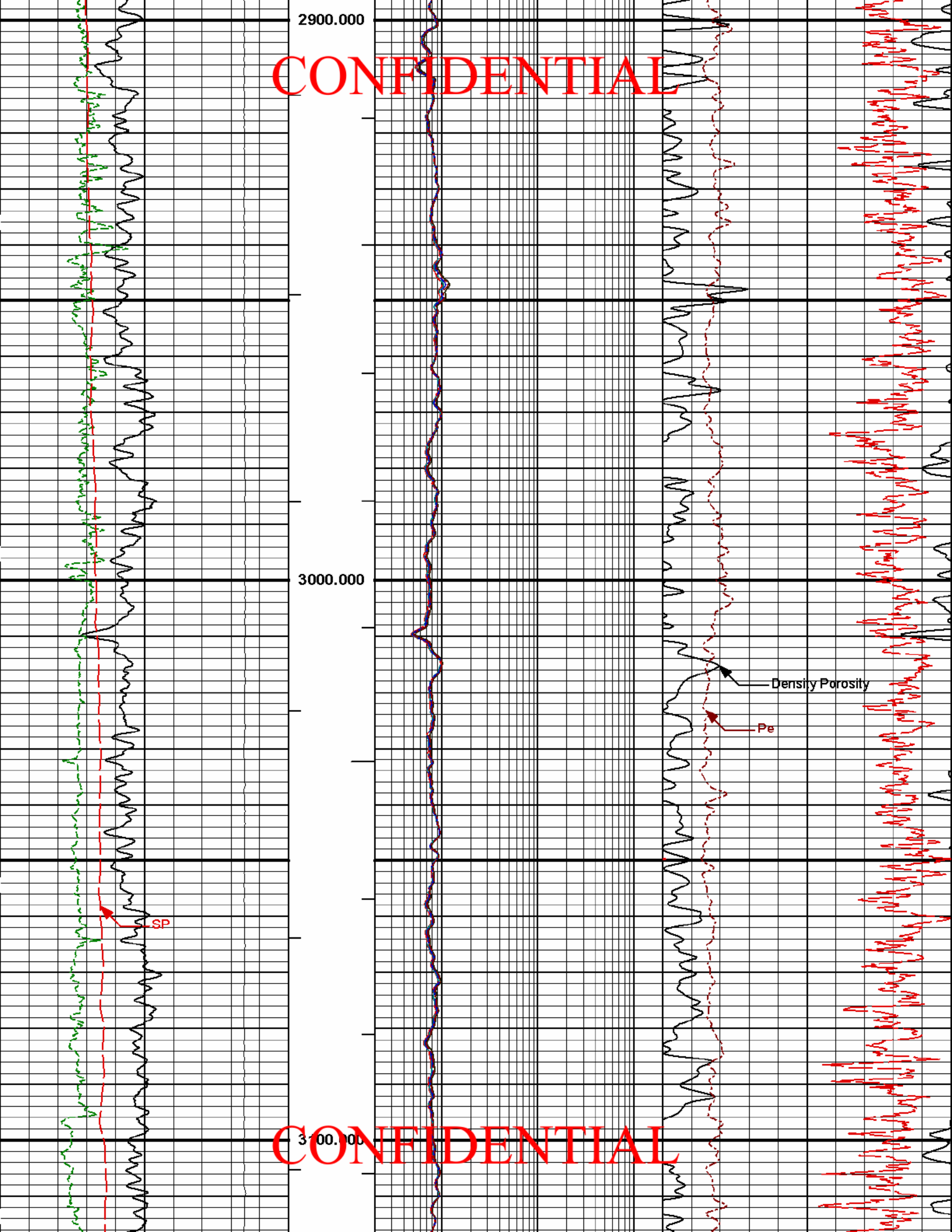
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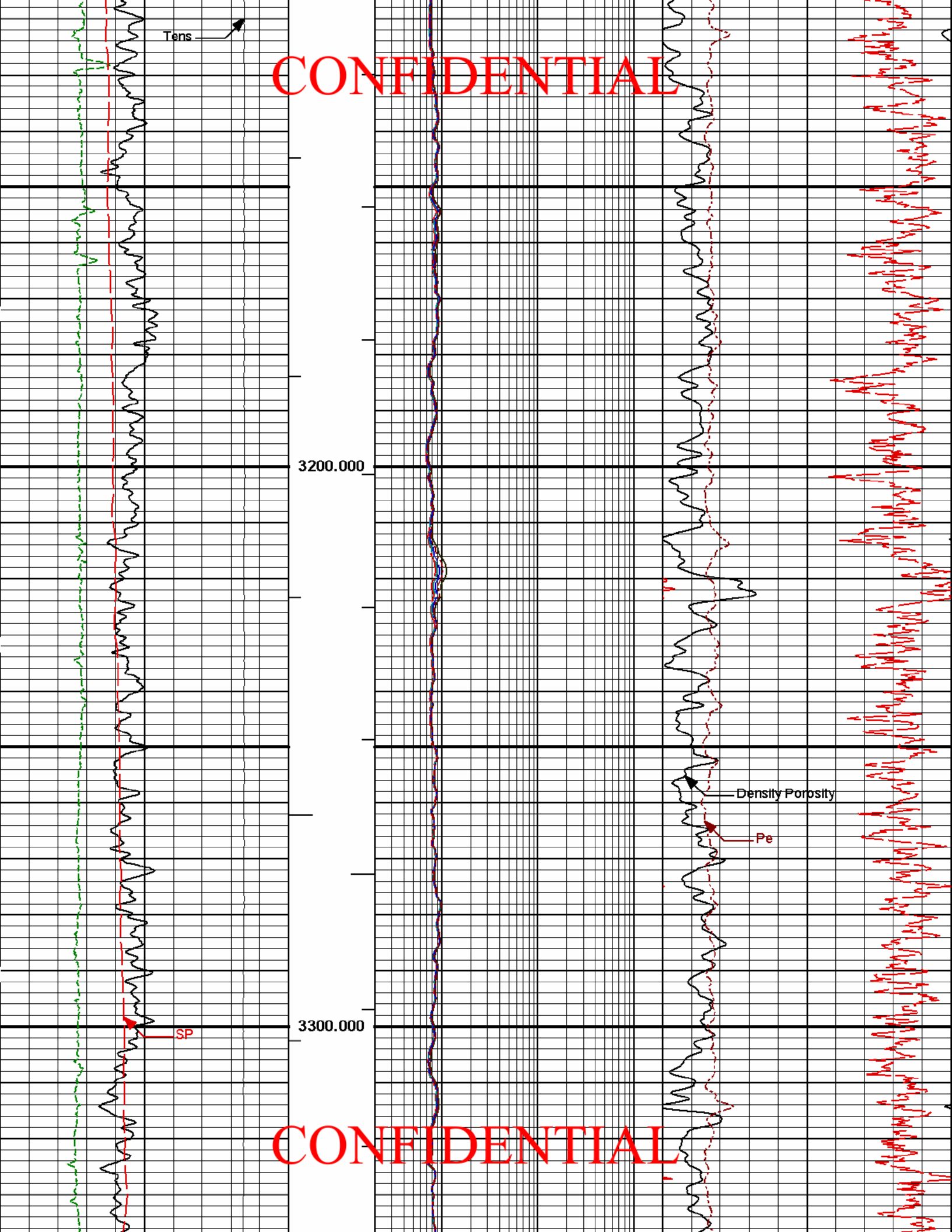
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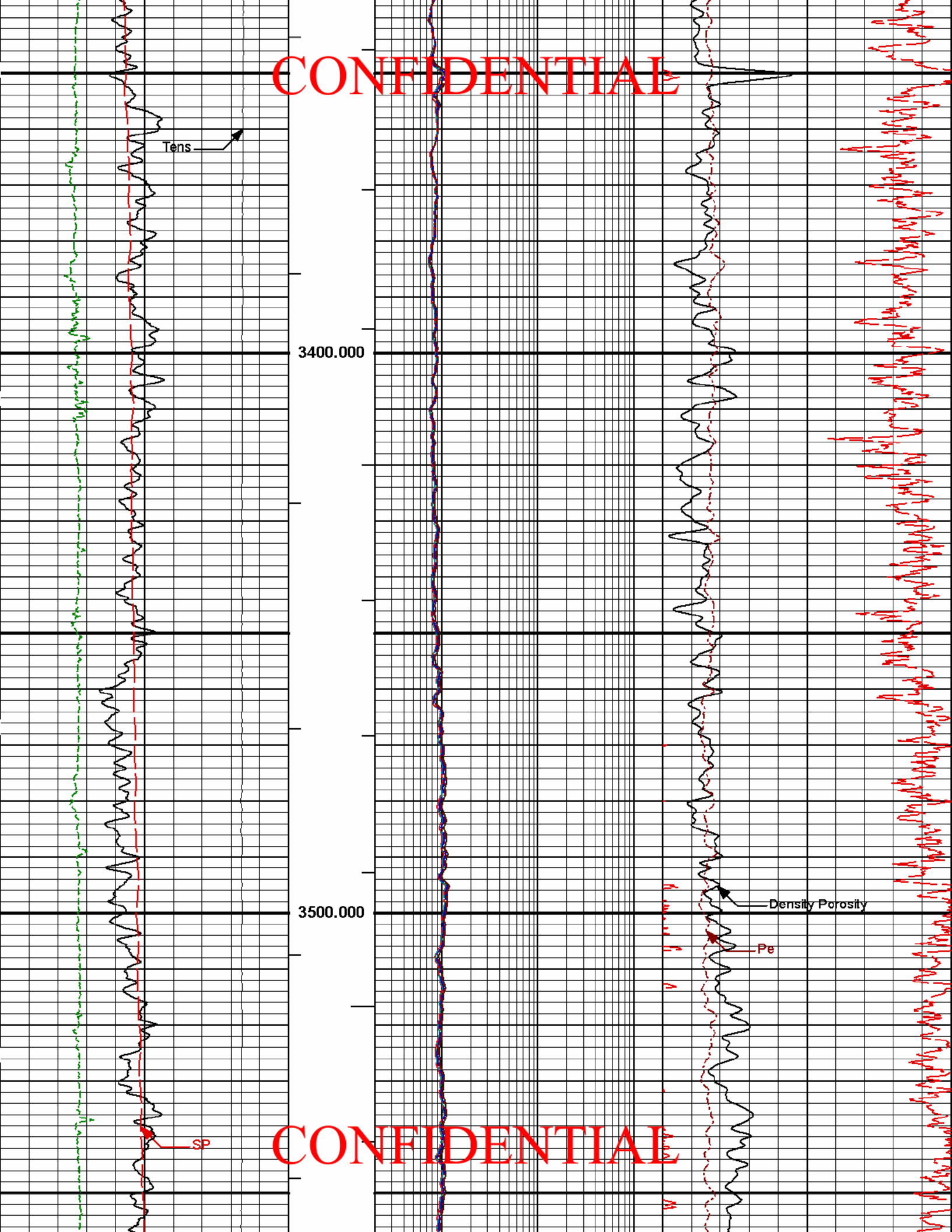

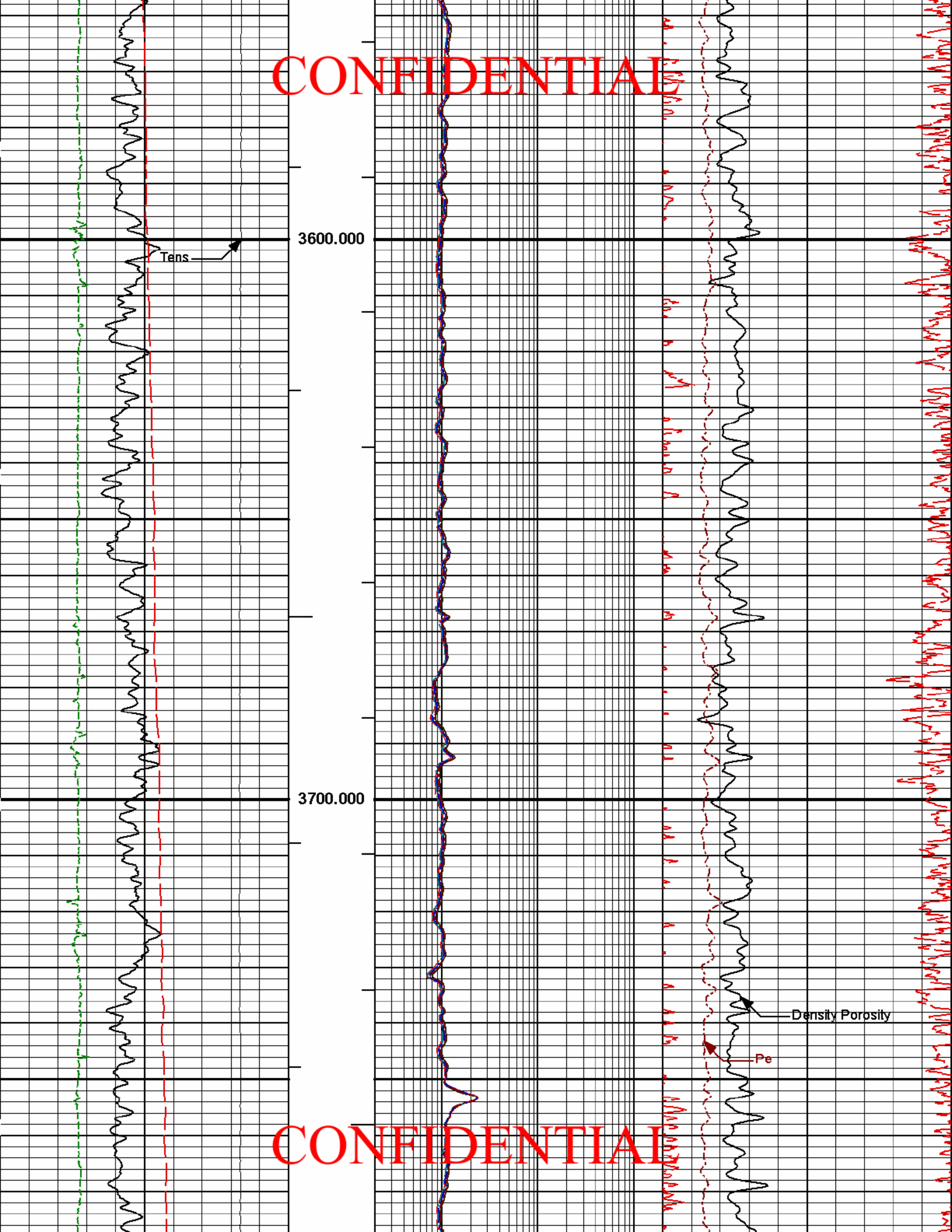

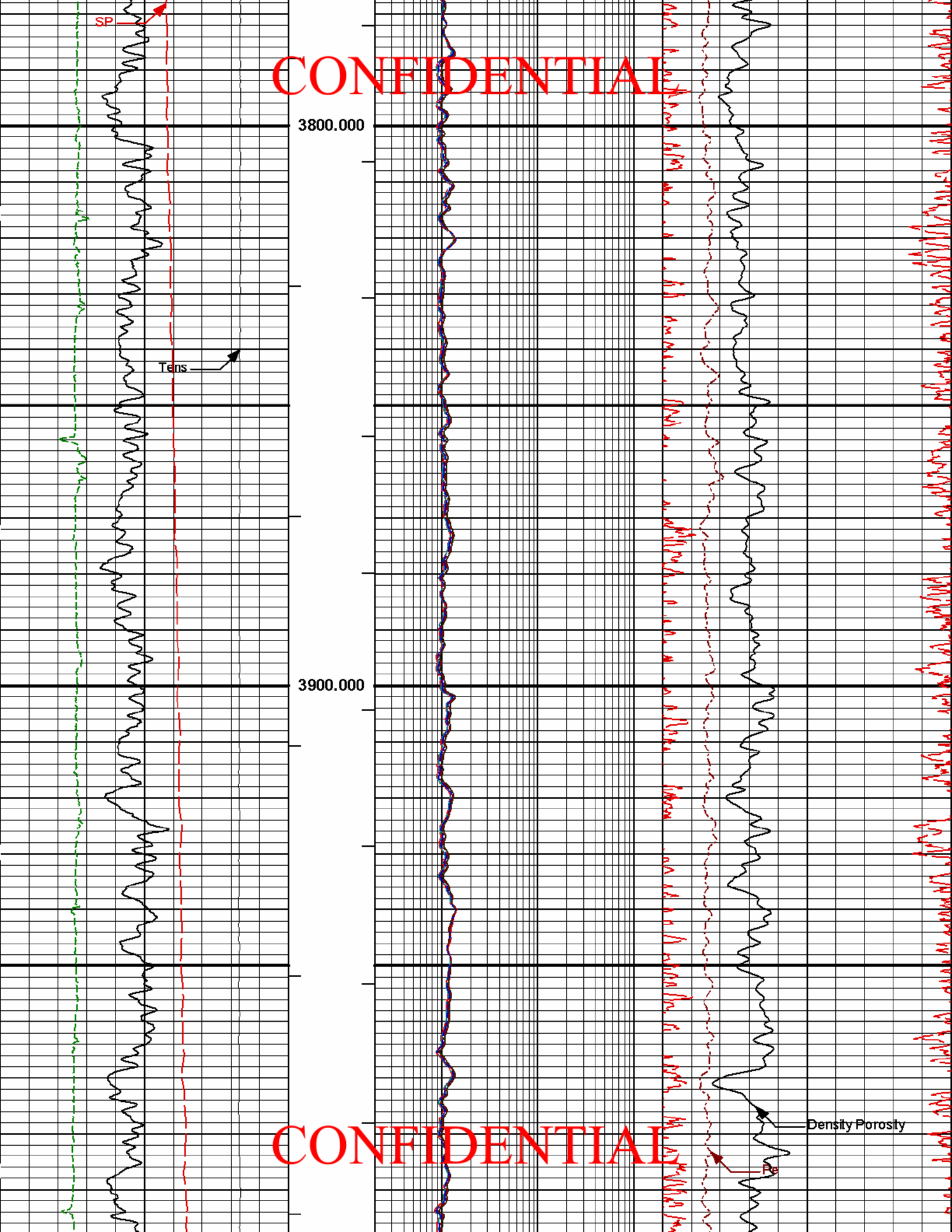
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Tens
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Density Porosity
Pe
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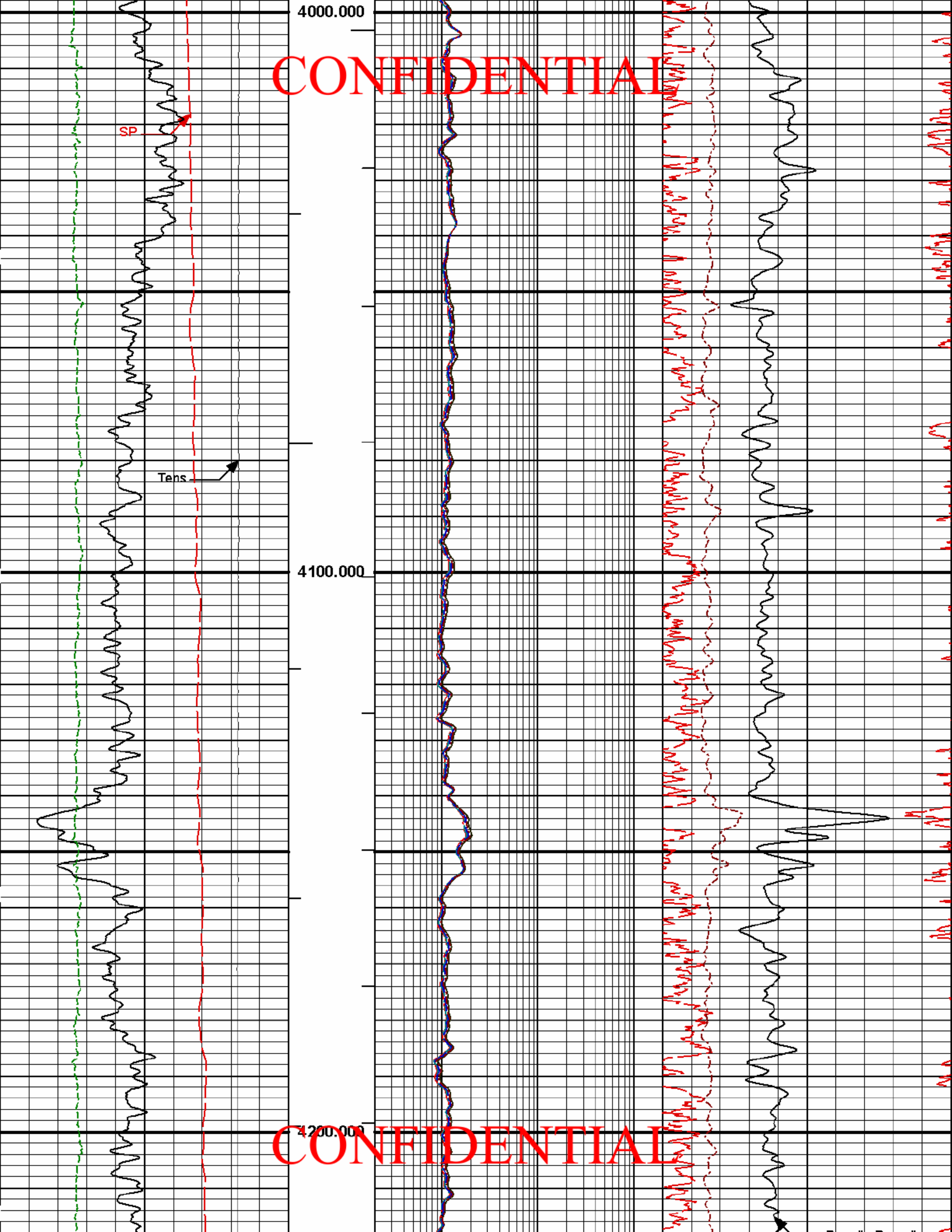
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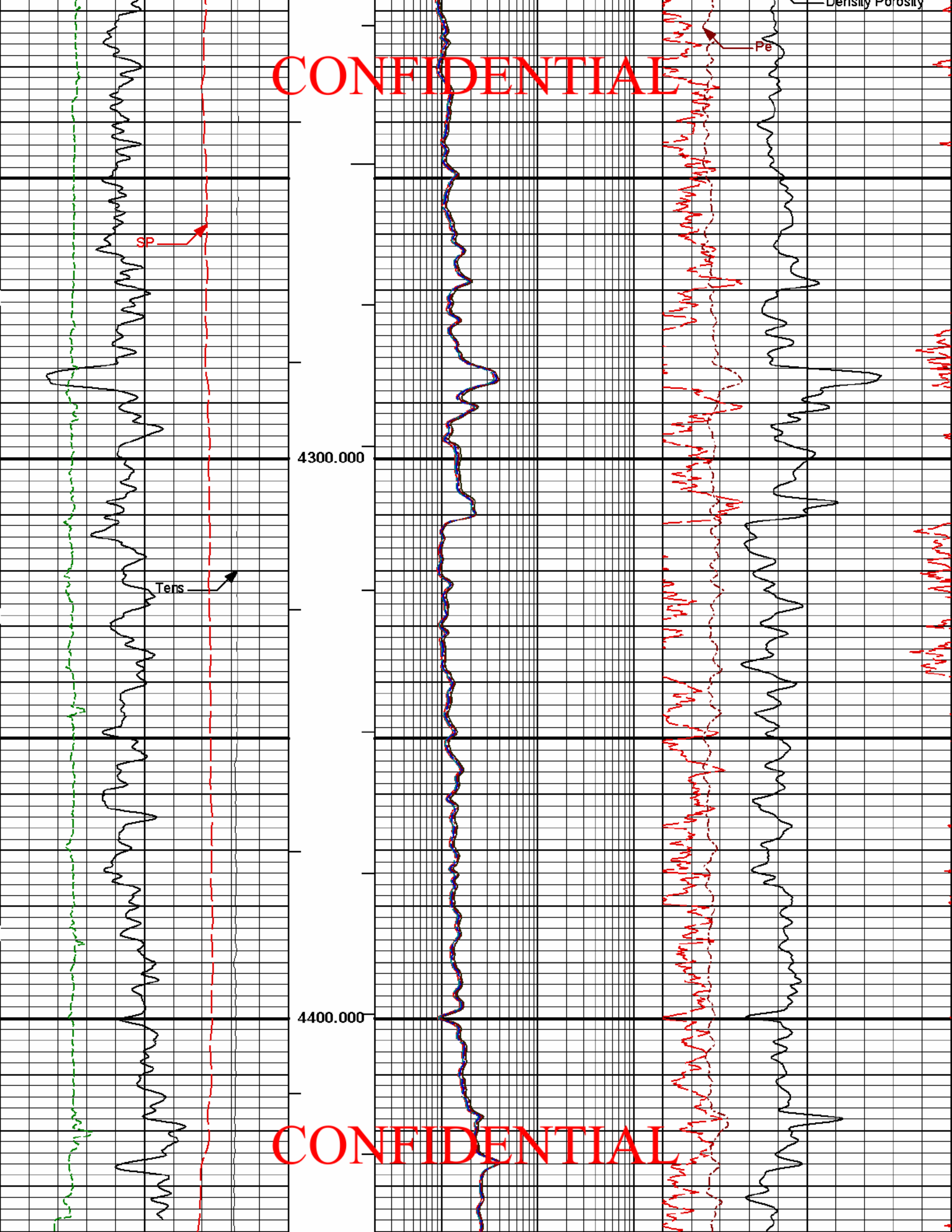
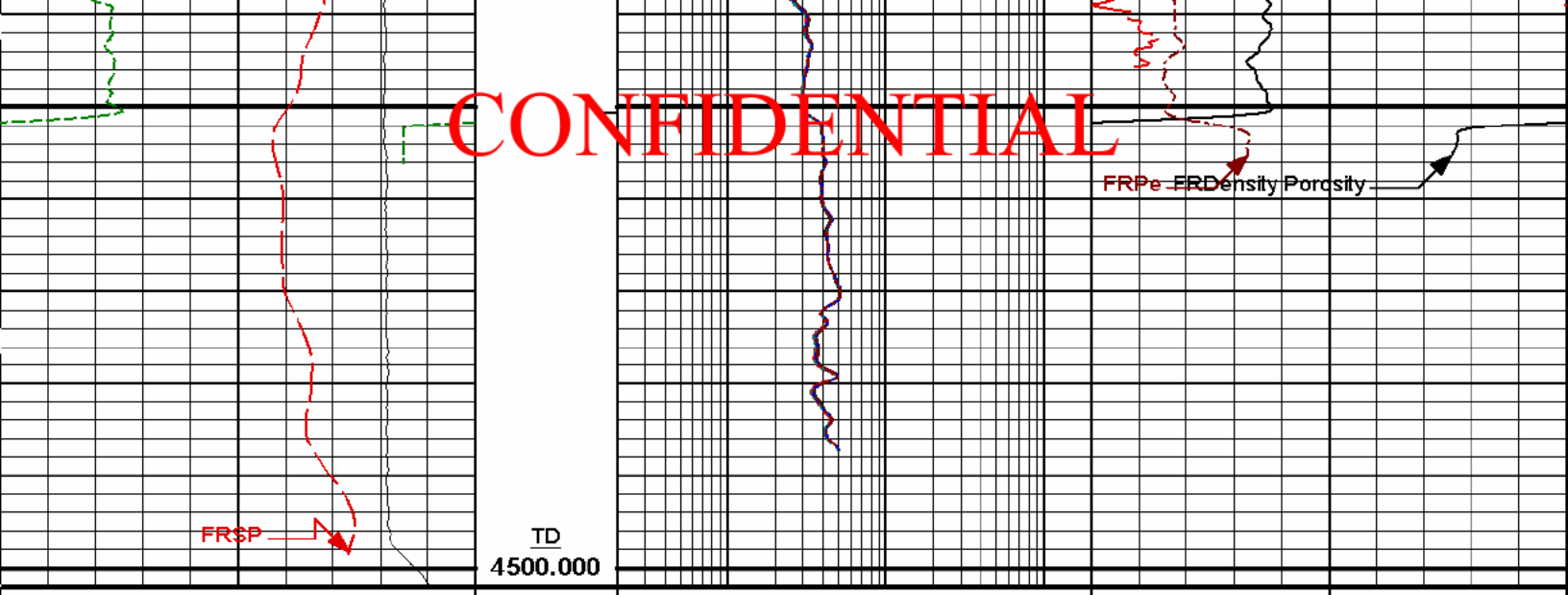




0 SP 100 millivolts	1 : 240	0.2 RT90 200 Ohm-m
0 Gamma API 200 api	BHVT	0.2 RT60 200 Ohm-m
6 Caliper 16 inches	AHVT	0.2 RT30 200 Ohm-m
10K Tens 0 pounds		0.2 RT20 200 Ohm-m
		0.2 RT10 200 Ohm-m

0 Pe 10
40 Density Porosity 0 percent
40 Neutron Porosity 0 percent

HALLIBURTON

Plot Time: 04-Apr-10 20:43:25
Plot Range: 100 ft to 4501.92 ft
Data: BRIDGE_ESP_1_2\Well Based\MAIN*
Plot File: \\(not saved)\IQ_COMPOSITE_ACRT_5IN_RM

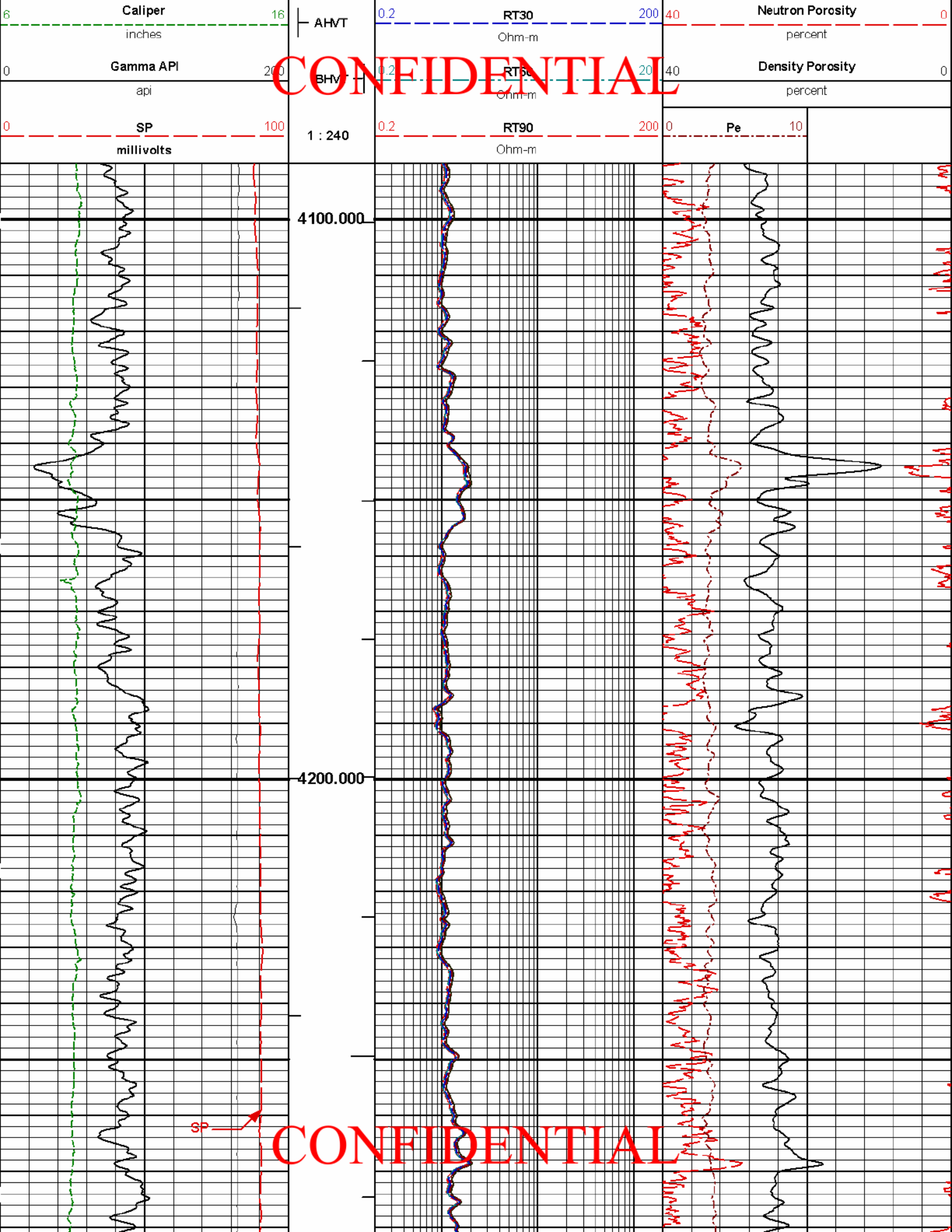
MAIN PASS 5" = 100'

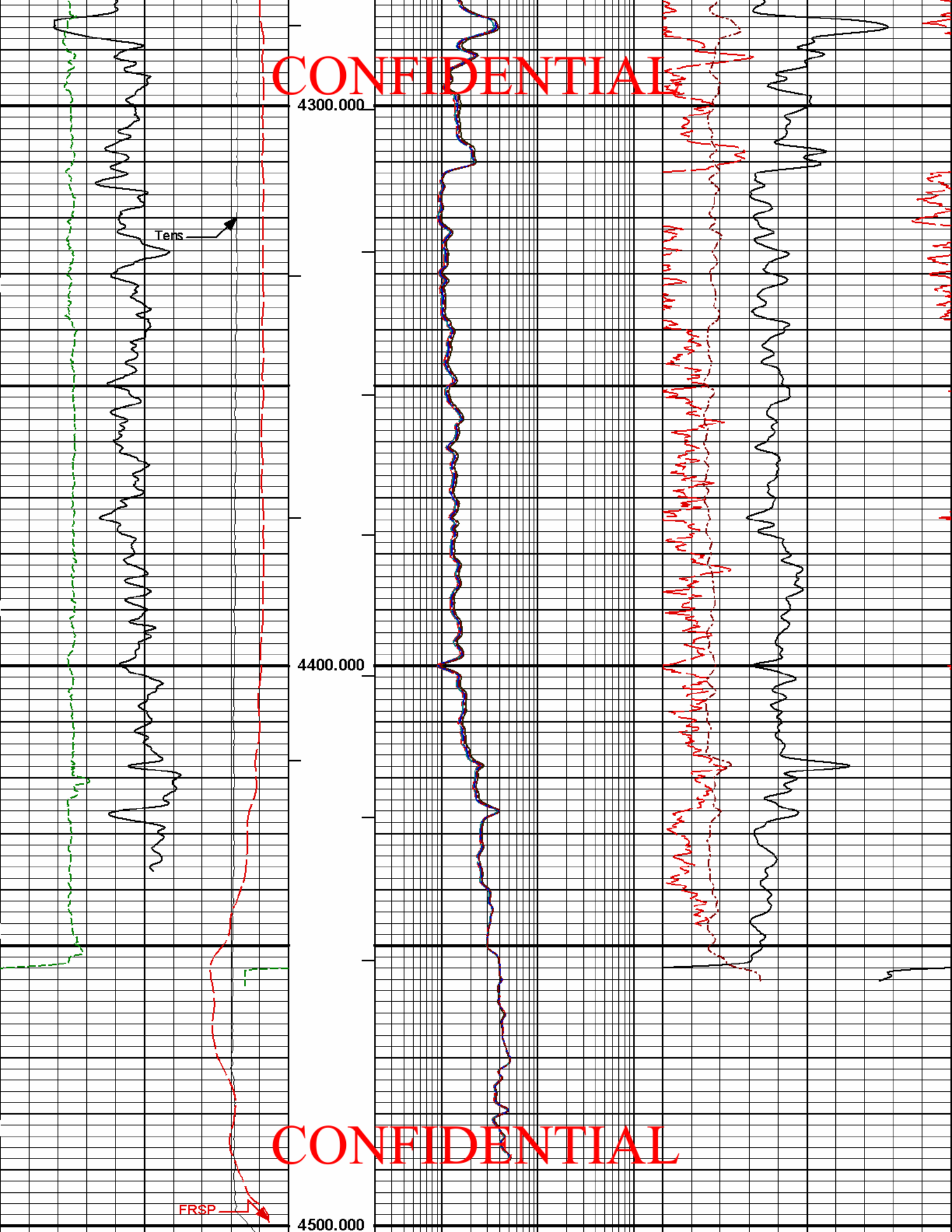
HALLIBURTON

Plot Time: 04-Apr-10 20:43:26
Plot Range: 4090 ft to 4502.92 ft
Data: BRIDGE_ESP_1_2\Well Based\RPT*
Plot File: \\(not saved)\IQ_COMPOSITE_ACRT_5IN_RM

REPEAT SECTION 5" = 100'

	0.2 RT10 200 Ohm-m
10K Tens 0 pounds	0.2 RT20 200 Ohm-m


Caliper
6
16
inches
AHVT
0.2
RT30
200
Ohm-m
Neutron Porosity
40
0
percent
Gamma API
0
200
api
BHVT
0.2
RT60
200
Ohm-m
Density Porosity
40
0
percent
SP
0
100
millivolts
1 : 240
0.2
RT90
200
Ohm-m
Pe
0
10
4100.000
4200.000
SP
CONFIDENTIAL
CONFIDENTIAL



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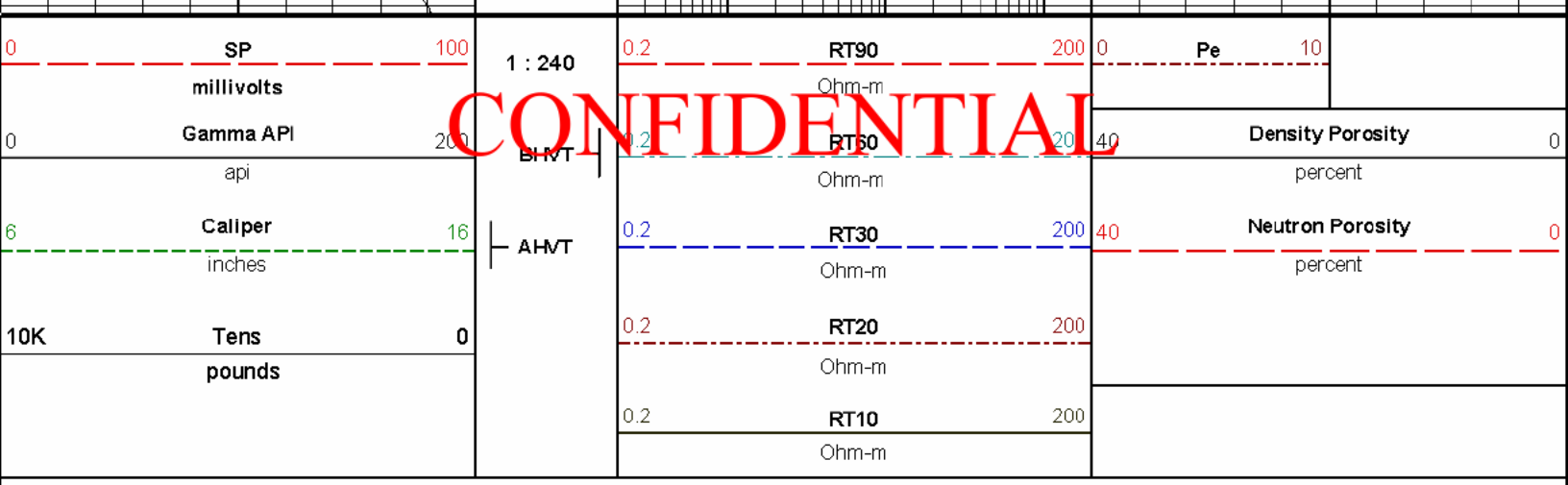


HALLIBURTON

Plot Time: 04-Apr-10 20:43:30
Plot Range: 4090 ft to 4502.92 ft
Data: BRIDGE_ESP_1_2\Well Based\RPT*
Plot File: \\(not saved)\IQ_COMPOSITE_ACRT_5IN_RM

REPEAT SECTION 5" = 100'

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:	**GTET - 11238317**	**Reference Calibration Date:**	**10-Feb-10 11:34:32**
Engineer:	**D. CULVER**	**Calibration Date:**	**05-Mar-10 15:44:24**
Software Version:	**WL INSITE R2.4 (Build 20)**	**Calibration Version:**	**1**

Calibrator Source S/N: TB-270
Calibrator API Reference:259.00 api

Measurement	Measured	Calibrated	Units
Background	38.8	39.1	api
Background + Calibrator	296.1	298.1	api
Calibrator	259.3	259.0	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name:	**GTET - 11238317**	**Reference Calibration Date:**	**05-Mar-10 15:44:24**
Engineer:	**J. MAYNE**	**Calibration Date:**	**03-Apr-10 17:18:39**
Software Version:	**WL INSITE R3.0.3 (Build 5)**	**Calibration Version:**	**1**

Calibrator Source S/N: TB-270
Calibrator API Reference:259.00 api

Field Verification	Shop	Field	Units
Background	39.1	41.6	api
Background + Calibrator	298.1	306.2	api
Calibrator	259.0	264.6	api

Shop	Field	Difference	Tolerance
259.0	264.6	-5.6	+/- 9.00

NATURAL GAMMA RAY TOOL POST CALIBRATION

NATURAL GAMMA RAY TOOL POST CALIBRATION

Tool Name:	**GTET - 11238317**	**Reference Calibration Date:**	**03-Apr-10 17:18:39**
Engineer:	**J. MAYNE**	**Calibration Date:**	**04-Apr-10 13:16:23**
Software Version:	**WL INSITE R3.0.3 (Build 5)**	**Calibration Version:**	**1**

Calibrator Source S/N: TB-270

Calibrator API Reference:259.00 api

Post Verification	Field	Post	Units
Background	41.6	44.4	api
Background + Calibrator	306.2	304.2	api
Calibrator	264.6	259.8	api

Shop	Field	Post	Difference	Tolerance
259.0	264.6	259.8	4.8	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name:	**DSNT - 11020488**	**Reference Calibration Date:**	**10-Feb-10 11:25:51**
Engineer:	**D. CULVER**	**Calibration Date:**	**06-Mar-10 10:06:00**
Software Version:	**WL INSITE R2.4 (Build 20)**	**Calibration Version:**	**1**

Logging Source S/N: 08-018

Tank Serial Number: ROCK SPRINGS

Reference value assigned to Tank: 51.650

Snow Block S/N: 11170614

Calibration Tank Water Temperature: 70 degF

Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS			
Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.962	0.966	0.900 - 1.100

WATER TANK SUMMARY (Horizontal Water Tank)				
Measurement	Current Reading (Previous Coef.)	Calibrated (New Coef.)	Change	Control Limit On Change
Porosity (decp):	0.2096	0.2108	0.0012	+/- 0.0020
Calibrated Ratio:	9.68	9.72	0.040	+/- 0.050

VERIFIER		
Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0786	0.02000 - 0.09000

PASS/FAIL SUMMARY	
Background Check:	Passed
Gain-Range Check:	Passed
Snow-Block Check:	Passed

DUAL SPACED NEUTRON FIELD CALIBRATION

Tool Name:	**DSNT - 11020488**	**Reference Calibration Date:**	**06-Mar-10 10:06:00**
Engineer:	**J. MAYNE**	**Calibration Date:**	**03-Apr-10 17:27:22**
Software Version:	**WL INSITE R3.0.3 (Build 5)**	**Calibration Version:**	**1**

Logging Source S/N: 08-018

Snow Block S/N: 11170614

NEUTRON FIELD-CHECK SUMMARY

	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0786	0.0653	-0.0134	+/- 0.0150

PASS/FAIL SUMMARY

Block Change Check:	Passed
Snow Block Stat Check:	Passed
Temperature Check:	Passed

DUAL SPACED NEUTRON POST CALIBRATION

Tool Name:	**DSNT - 11020488**	**Reference Calibration Date:**	**03-Apr-10 17:27:22**
Engineer:	**J. MAYNE**	**Calibration Date:**	**04-Apr-10 13:18:45**
Software Version:	**WL INSITE R3.0.3 (Build 5)**	**Calibration Version:**	**1**

Logging Source S/N: 08-018

Snow Block S/N: 11170614

NEUTRON POST-CHECK SUMMARY

	Field Value	Post Value	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0653	0.0606	-0.0046	+/- 0.0150

PASS/FAIL SUMMARY

Block Change Check:	Passed
Snow Block Stat Check:	Passed
Temperature Check:	Passed

SPECTRAL DENSITY SHOP CALIBRATION

Tool Name:	**SDLT - 10947725**	**Reference Calibration Date:**	**10-Feb-10 09:36:07**
Engineer:	**D. CULVER**	**Calibration Date:**	**06-Mar-10 09:17:56**
Software Version:	**WL INSITE R2.4 (Build 20)**	**Calibration Version:**	**1**

Logging Source S/N: 5235GW

Aluminum Block S/N: ROCK SPRINGS — Density: 2.606g/cc — Pe: 3.069

Magnesium Block S/N: ROCK SPRINGS — Density: 1.683g/cc — Pe: 2.594

DENSITY CALIBRATION SUMMARY

Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0126	1.0048	0.90 - 1.10
Near Dens Gain	1.0016	0.9949	0.90 - 1.10
Near Peak Gain	0.9840	0.9789	0.90 - 1.10
Near Lith Gain	0.9702	0.9636	0.90 - 1.10
Far Bar Gain	1.0127	1.0125	0.90 - 1.10
Far Dens Gain	1.0041	1.0018	0.90 - 1.10
Far Peak Gain	0.9992	0.9987	0.90 - 1.10
Far Lith Gain	0.9823	0.9806	0.90 - 1.10
Near Bar Offset	-0.1039	-0.0351	NONE
Near Dens Offset	-0.0261	0.0313	NONE
Near Peak Offset	0.1089	0.1491	NONE
Near Lith Offset	0.1888	0.2417	NONE
Far Bar Offset	-0.1846	-0.1893	NONE
Far Dens Offset	-0.1217	-0.1063	NONE
Far Peak Offset	-0.1058	-0.1030	NONE
Far Lith Offset	0.0054	0.0102	NONE
Near Bar Background	967.76	970.67	700 - 1450

Near Dens Background	319.82	323.69	230 - 480
Near Peak Background	138.93	138.17	100 - 210
Near Lith Background	170.73	170.72	125 - 260
Far Bar Background	566.27	564.59	450 - 900
Far Dens Background	218.21	219.65	175 - 345
Far Peak Background	87.46	86.39	70 - 140
Far Lith Background	89.84	90.81	75 - 145

CALIBRATION BLOCK SUMMARY

Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	0.000	1.682	1.682	+/- 0.015
Pe	0.000	2.579	2.579	+/- 0.150
ALUMINUM				
Density (g/cc)	0.000	2.604	2.604	+/- 0.01500
Pe	0.000	3.061	3.061	+/- 0.150

TOOL SUMMARY

Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	-0.0013	+/- 0.0110	-0.0016	+/- 0.0140
Magnesium Block	-0.0010	+/- 0.0110	-0.0037	+/- 0.0140
Aluminum Block	-0.0006	+/- 0.0110	-0.0019	+/- 0.0140
Resolution	9.54	6.00 - 11.50	9.06	6.00 - 11.50
Internal Verifier(B+D+P+L)	1603	1200 - 2700	961	800 - 1700

PASS/FAIL SUMMARY

Background Quality Check:	Passed
Background Range Check:	Passed
Background Resolution Check:	Passed
Background Verification Check:	Passed
Magnesium Quality Check:	Passed
Aluminum Quality Check:	Passed
Gains Check:	Passed
Changes in Calibration Blocks:	Passed

SPECTRAL DENSITY FIELD CHECK

Tool Name: SDLT - 10947725 **Reference Calibration Date:** 06-Mar-10 09:17:56

Engineer: J. MAYNE **Calibration Date:** 03-Apr-10 17:19:29

Software Version: WL INSITE R3.0.3 (Build 5) **Calibration Version:** 1

Pad Temperature: 57.6 degF

DENSITY FIELD CALIBRATION SUMMARY

Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1603.252	1592.707	-10.545	16.100
Far (B+D+P+L) cps	961.435	967.243	5.808	16.693
Near Resolution	9.54	9.63	0.090	0.50
Far Resolution	9.06	9.31	0.250	1.00

PASS/FAIL SUMMARY

Bkg Quality Check:	Passed
Bkg Resolution Check:	Passed
Bkg Verification Check:	Passed

SPECTRAL DENSITY POST CHECK

Tool Name:	**SDLT - 10947725**	**Reference Calibration Date:**	**03-Apr-10 17:19:29**
Engineer:	**J. MAYNE**	**Calibration Date:**	**04-Apr-10 13:11:24**
Software Version:	**WL INSITE R3.0.3 (Build 5)**	**Calibration Version:**	**1**

Pad Temperature: 61.1 degF

DENSITY POST CALIBRATION SUMMARY

Measurement	Field	Post	Change	Control Limit +/-
Near (B+D+P+L) cps	1592.707	1599.724	7.017	16.100
Far (B+D+P+L) cps	967.243	966.790	-0.453	16.693
Near Resolution	9.63	9.73	0.100	0.50
Far Resolution	9.31	9.52	0.210	1.00

PASS/FAIL SUMMARY

Bkg Quality Check:	Passed
Bkg Resolution Check:	Passed
Bkg Verification Check:	Passed

DENSITY CALIPER SHOP CALIBRATION

Tool Name:	**SDLT - 10947725**	**Reference Calibration Date:**	**02-Apr-10 11:08:59**
Engineer:	**J. MAYNE**	**Calibration Date:**	**02-Apr-10 11:13:27**
Software Version:	**WL INSITE R3.0.3 (Build 5)**	**Calibration Version:**	**1**

CALIBRATION COEFFICIENTS

Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-2092.38	-2134.81	-7000.00 - -1000.00
Pad Gain	0.0003726	0.0003740	0.000200 - 0.000600
Arm Offset	-3598.92	-3371.76	-5000.00 - 3000.00
Arm Gain	0.0005432	0.0005276	0.000300 - 0.000700
Arm Power	-0.000004207	-0.000003335	-0.000010 - 0.000010

The ring diameter is computed from: DIAMETER = PAD EXTENSION + ARM EXTENSION + TOOL DIAMETER

Tool Diameter: 4.50 in

CALIBRATION RINGS

Measurement	Current Reading (Previous Coeff.)	Calibrated (New Coeff.)	Change	Control Limit On New Value
PAD EXTENSION:				
Small Ring (in)	2.01	2.00	-0.01	+/- 0.20
Medium Ring (in)	3.75	3.75	0.00	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.45	6.50	0.05	+/- 0.20
Medium Ring (in)	8.23	8.25	0.02	+/- 0.20
Large Ring (in)	15.01	15.00	-0.01	+/- 0.20

PASS/FAIL SUMMARY

Calibration-Coefficients Range Check:	Passed
Ring-Measurement Check:	Passed

PASS/FAIL SUMMARY

Calibration-Coefficients Range Check:	Passed

SDLT CALIPER FIELD CALIBRATION

SDLT CALIPER FIELD CALIBRATION

Tool Name: SDLT - 10947725 | **Reference Calibration Date:** 02-Apr-10 11:13:27

Engineer: J. MAYNE | **Calibration Date:** 03-Apr-10 17:23:07

Software Version: WL INSITE R3.0.3 (Build 5) | **Calibration Version:** 1

MEASURED CALIPER VALUES

Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.73	-0.02	+/- 0.10
Ring Diameter	8.25	8.29	0.04	+/- 0.15

PASS/FAIL SUMMARY

Pad Extension Check:	Passed
Diameter Check:	Passed

SDLT CALIPER POST CALIBRATION

Tool Name: SDLT - 10947725 | **Reference Calibration Date:** 03-Apr-10 17:23:07

Engineer: J. MAYNE | **Calibration Date:** 04-Apr-10 13:14:57

Software Version: WL INSITE R3.0.3 (Build 5) | **Calibration Version:** 1

MEASURED CALIPER VALUES

Measurement	Field	Post	Change	Control Limit On New Value
Pad Extension	3.73	3.74	0.00	+/- 0.10
Ring Diameter	8.30	8.15	-0.15	+/- 0.15

PASS/FAIL SUMMARY

Pad Extension Check:	Passed
Diameter Check:	Passed

BCAS FIELD CASING CHECK

Tool Name: BSAT - 10939067 | **Calibration Date:** 03-Apr-10 18:07:00

Engineer: J. MAYNE

Software Version: WL INSITE R3.0.3 (Build 5) | **Calibration Version:** 1

Pre-Log Check	Check Depth	Shop	Field	Difference	Tolerance	Units
Delta-T Compensated	442.95	57000000.00	56.02	56,999,943.9800	1.00	uspf

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION

Tool Name: ACRt - E171_S970 | **Reference Calibration Date:** 20-Feb-10 12:59:47

Engineer: J. MAYNE | **Calibration Date:** 22-Mar-10 10:03:03

Software Version: WL INSITE R3.0.3 (Build 5) | **Calibration Version:** 1

TYPICAL GAIN RANGE

Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.0080	1.05	0.95	1.0089	1.05	0.95	1.0046	1.05
A2 (50")	0.95	1.0142	1.05	0.95	1.0163	1.05	0.95	1.0140	1.05
A3 (29")	0.95	0.9994	1.05	0.95	1.0013	1.05	0.95	0.9974	1.05
A4 (17")	0.95	1.0020	1.05	0.95	1.0019	1.05	0.95	0.9997	1.05
A5 (10")	N/A	N/A	N/A	0.95	1.0011	1.05	0.95	0.9980	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9761	1.05	0.95	0.9728	1.05

TYPICAL SONDE OFFSET RANGE

Subarray	R12KHz			R36KHz			R72KHz		

	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	-5	-0.591	2	-6	-3.483	-2	-8	-4.654	-2
A2 (50")	-7	-1.767	2	-6	-3.577	-2	-7	-4.499	-2
A3 (29")	-27	-12.716	9	-9	-3.576	3	-7	-3.074	-1
A4 (17")	-180	-95.049	-60	-45	-29.911	-15	-39	-25.183	-13
A5 (10")	N/A	N/A	N/A	-150	-99.718	-50	-80	-48.320	-10
A6 (6")	N/A	N/A	N/A	175	323.640	525	90	156.294	270

TRANSMITTER CURRENT GAIN

Signal	Lower	R	Upper
12K	0.6	0.8325	1.3
36K	1.0	1.3058	2.0
72K	1.0	1.6007	2.0

R-MUD VERIFICATION

Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
Mud Cell	0.95	1.001	1.05

CALIBRATION SUMMARY

Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11238317						
Gamma Ray Calibrator	259.0	264.6	259.8	4.8	+/- 9.00	api
DSNT-11020488						
Snow-Block Porosity	0.0786	0.0653	0.0606	0.0047	+/- 0.0150	decp
SDLT-10947725						
Near(B+D+P+L)	1603.252	1592.707	1599.724	-7.017	+/-16.100	cps
Far(B+D+P+L)	961.435	967.243	966.790	0.453	+/-16.693	cps
Pad Extension	3.75	3.73	3.74	-0.01	+/-0.10	in
Ring Diameter	8.25	8.29	8.15	0.140	+/-0.15	in
ACRt-E171_S970						
Mud Cell	1.001	----------	----------	0.000	----------	ohm-m

Data: BRIDGE_ESP_1_2\0001 QUAD-BSAT\IDLE Date: 04-Apr-10 13:19:32

HALLIBURTON

CUSTOMER EVENT LOG

Event Type	Time & Date	Depth (ft)	Event Description
	03-Apr-10 18:14:54	999.75	Logging 001 03-Apr-10 18:14 Up @999.8f
	03-Apr-10 18:21:08	652.98	Halting 001 03-Apr-10 18:14 Up @999.8f
	03-Apr-10 18:21:36	548.00	Logging 002 03-Apr-10 18:21 Dn @548.0f
	03-Apr-10 19:21:29	1705.11	Halting 002 03-Apr-10 18:21 Dn @548.0f
	04-Apr-10 09:32:40	703.50	Logging 003 04-Apr-10 09:32 Dn @703.5f
	04-Apr-10 10:37:46	4455.53	Halting 003 04-Apr-10 09:32 Dn @703.5f
	04-Apr-10 10:38:59	4503.50	Logging 004 04-Apr-10 10:38 Up @4503.5f
	04-Apr-10 10:48:42	4003.14	Halting 004 04-Apr-10 10:38 Up @4503.5f
	04-Apr-10 10:54:16	4502.75	Logging 005 04-Apr-10 10:54 Up @4502.8f
	04-Apr-10 12:19:19	81.25	Halting 005 04-Apr-10 10:54 Up @4502.8f

Data: BRIDGE_ESP_1_2\0001 QUAD-BSAT\HALLIBUR-1A34A9 Date: 04-Apr-10 13:24:16

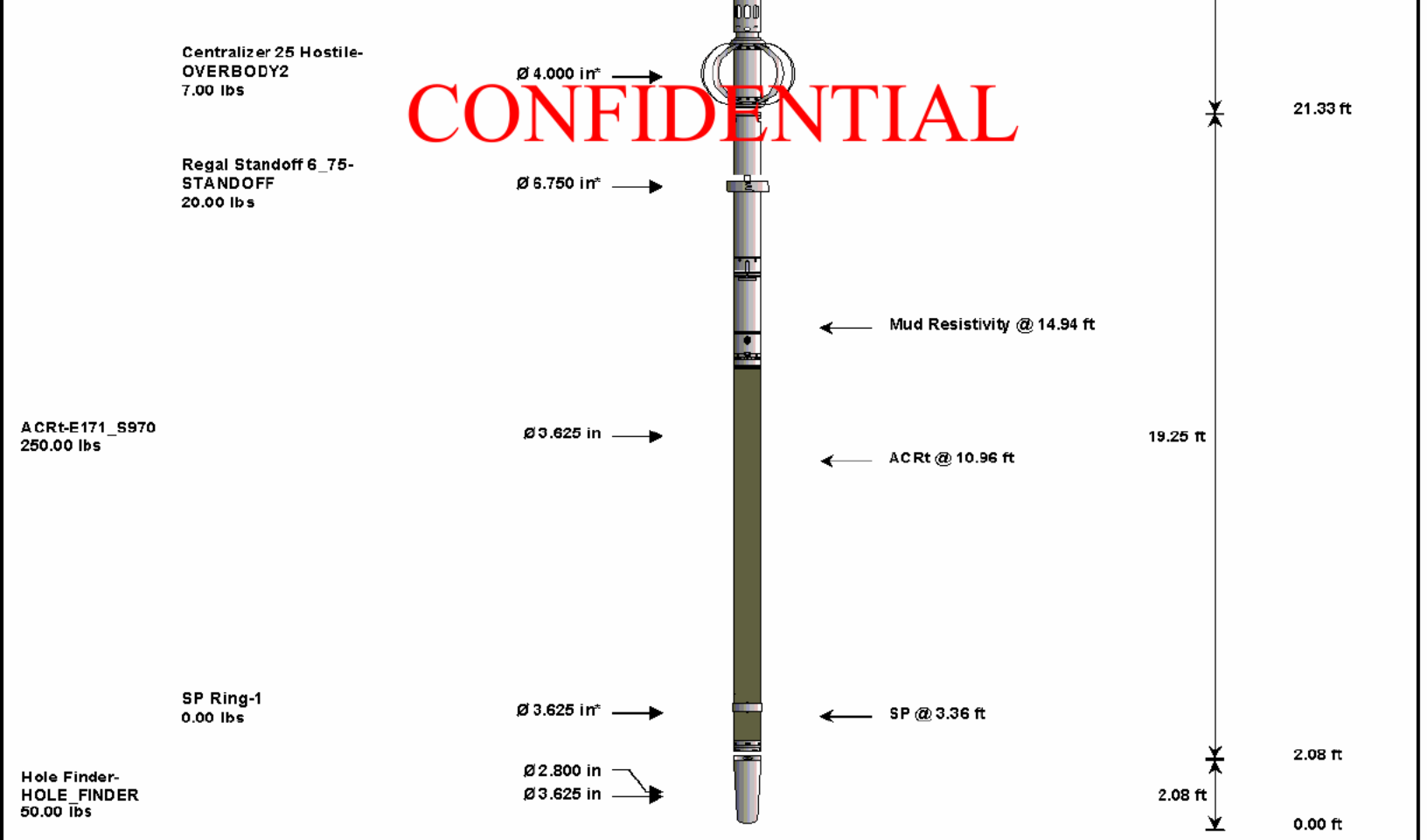
HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overshot Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Length
						78.05 ft
RWCH-11173131 135.00 lbs		Ø 3.625 in		Load Cell @ 74.36 ft BH Temperature @ 73.80 ft	6.25 ft	
						71.80 ft
GTET-11238317 165.00 lbs		Ø 3.625 in		GammaRay @ 65.74 ft	8.52 ft	
						63.28 ft
	DSN Decentralizer- 10860047 6.60 lbs	Ø 3.625 in*				
DSNT-11020488 174.00 lbs		Ø 3.625 in		DSN Far @ 56.34 ft DSN Near @ 55.59 ft	9.69 ft	
						53.59 ft
SDLT-10947725 360.00 lbs		Ø 4.500 in Ø 4.750 in		SDL Microlog @ 45.78 ft SDL Caliper @ 45.59 ft SDL @ 45.53 ft	10.81 ft	
						42.78 ft
IQ Flex-ORANGE 140.00 lbs		Ø 3.625 in			5.67 ft	
						37.11 ft
	Centralizer 25 Hostile- OVERBODY 7.00 lbs	Ø 4.000 in*				
BSAT-10939067 300.00 lbs		Ø 3.625 i		onic Receivers @ 28.59 ft	15.77 ft	
						21.28 ft

CONFIDENTIAL



Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)		Accumulated Length (ft)	Max.Log. Speed (fpm)
RWCH	Releasable Wireline Cable Head	11173131	135.00	6.25		71.80	300.00
GTET	Gamma Telemetry Tool	11238317	165.00	8.52		63.28	60.00
DSNT	Dual Spaced Neutron	11020488	174.00	9.69		53.59	60.00
DCNT	DSN Decentralizer	10860047	6.60	5.13	*	56.92	300.00
SDLT	Spectral Density Tool	10947725	360.00	10.81		42.78	60.00
IQF	IQ Flex tool	ORANGE	140.00	5.67		37.11	300.00
BCAS	Borehole Sonic Array Tool	10939067	300.00	15.77		21.33	60.00
OBCEN	Centralizer - 25 in. Hostile Overbody	OVERBODY2	7.00	2.08	*	21.40	300.00
OBCEN	Centralizer - 25 in. Hostile Overbody	OVERBODY	7.00	2.08	*	33.99	300.00
ACRt	Array Compensated True Resistivity	E171_S970	250.00	19.25		2.08	300.00
SP	SP Ring	1	0.00	0.25	*	3.36	300.00
RSOF	Regal Standoff 6.75"	STANDOFF	20.00	0.52	*	18.89	300.00
HFND	Hole Finder	HOLE_FINDER	50.00	2.08		0.00	300.00
Total			**1,614.60**	**78.05**			

* Not included in Total Length and Length Accumulation.

Data: BRIDGE_ESP_1_2\0001 QUAD-BSAT\IDLE **Date: 04-Apr-10 13:24:43**

COMPANY	**BRIDGE ENERGY.LLC**
WELL	**ESPINO 1 - 2**
FIELD	**WILDCAT**
COUNTY	**PAYETTE** STATE **IDAHO**

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HALLIBURTON

SPECTRAL DENSITY
DUAL SPACED NEUTRON
BOREHOLE COMP SONIC
ARRAY COMPENSATED
TRUE RESISTIVITY

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